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FEATURED PRODUCT

FEATURED PRODUCT

NEW

41-541

FRONT CAMBER ADJUSTABLE LOWER BALL JOINT

These ball joints provide a fast, easy and adjustable solution to the problem of non-adjustable front suspensions found on many of today's most popular vehicles.

- Unique design allows fast and easy "on-vehicle" adjustment
- Future adjustments are easily made
- Adjustable offset design means fewer part numbers per application.
- Greaseable design

Patent pending

Honda Accord *2016-2019*
Honda Civic *2016-2019*

Adjustment Range: +1°
Quantity: Each
Sides Adjusted: 1

NEW

41-8258

FRONT GREASEABLE CASTER/PINION ANGLE BOLT

- Must have for lifted vehicles
- Pro-Series Greaseable for long service life

Jeep JL *2018 - 2020*

Adjustment Range: ±3°
Quantity: Pair
Sides Adjusted: 2

NEW

41-8272

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments
- Works with OEM Cam Guide
- Allows for fast and easy on-vehicle adjustments
- Makes vehicles fully adjustable for camber and caster

Cadillac Escalade *1999-2000*
Chevrolet Astro 4WD *1990-2003*
Chevrolet Tahoe 4WD *1995-2000*
GMC Safari 4WD *1990-2005*

Adjustment Range: ±2.25°
Quantity: Kit
Sides Adjusted: 2

NEW

41-8273

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Dodge Nitro *2007-2011*
Jeep Liberty *2002-2012*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

NEW

42-781

FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Replaces factory non-adjustable system
- Greaseable to ensure anti-siezure longevity

Ford F150 SuperCrew® 4WD *2001-2003*
Lincoln Navigator 2nd design 2WD/4WD *1998-2002*
Ford F150/F250 2nd design 2WD/4WD *1997-2003*
Lincoln Blackwood 2WD/4WD *2002-2003*

42-781-4
Set of 4, adjusts both sides

Adjustment Range: ±2.5°
Quantity: Pair
Sides Adjusted: 1

NEW

44-836

FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Keeps vehicles fully adjustable for camber and caster
- Grease insert ensures anti-siezure longevity
- Greaseable allowing for ease of future adjustment

Ford Explored 2WD *1995-2001*
Ford Ranger 2WD/4WD *1998-2012*
Mercury Mountaineer 2WD/4WD *1997-2001*

44-836-4
Set of 4, adjusts both sides

Adjustment Range: ±3.25°
Quantity: Pair
Sides Adjusted: 1

NEW

44-839

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- GM Greaseable replacement bolt kit with Quick Cams is a direct replacement and will restore the factor adjustment
- Greaseable allowing for ease of future adjustments
- On many models this kit will greatly inprove accessibility for easy adjustments

Chevrolet 1500 2WD/4WD *2019-2020*
GMC Sierra 1500 2WD/4WD *2019-2020*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

NEW

44-862

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Keeps vehicles fully adjustable for camber and caster
- Allows fast and easy on-vehicle adjustments
- Works with OE cam guide
- Greaseable to ensure anti-sieze longevity

Infiniti QX56 *2004-2013*
Nissan Frontier 2WD/4WD *2005-2020*
Nissan Titan 2WD/4WD *2004-2015*

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

Ph: 800-828-0255
fax: 888-658-6822
www.Northstarmfg.com

NORTHSTAR MANUFACTURING COMPANY, INC.

FEATURED PRODUCT

FEATURED PRODUCT

NEW

44-864

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- This kit provides steel guides with cam bolt asemblies to make accurate and easy change of camber and caster
- Grease insert ensures anti-siezure longevity

Ford F150 2WD/4WD *2004-2008*
Lincoln Mark LT 2WD/4WD *2006-2008*

Adjustment Range: Camber ±2°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

NEW

44-866

FRONT GREASEABLE CAMBER/CASTER CAM PLATE BOLT KIT

- Fast bolt-on installation, no drilling or modifying required
- Precise easily controlled adjustments
- Allows for future adjustments
- Greaseable Design

Dodge 1500 2WD/4WD *2002-2005*

Adjustment Range: ±1°
Quantity: Kit
Sides Adjusted: 2

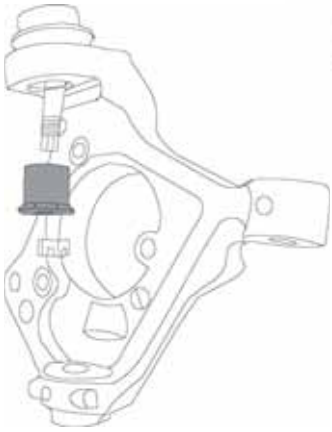
FRONT CAMBER ADJUSTMENT BUSHINGS

- Allows for adjustment where there is no OE adjustment available
- Designed with hex head foe ease of adjustment
- Restores factory wheel alignment settings
- Manufactured to exceed OEM durability standards

NEW

44-6032 .5°
44-6034 1°

Jeep JL *2018-2020*



Quantity: Each
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

NEW

46-434

REAR GREASEABLE TOE BOLT

- Greaseable replacement toe cam bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Acura ILX *2013-2020*
Acura ILX Hybird *2013-2015*
Honda Civic LX *2006-2017*
Honda Civic CR-V *2006-2017*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-437

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Chrysler Sebring *2007-2010*
Chrysler 200 *2011-2014*
Dodge Journey *2009-2020*
Dodge Avenger *2011-2014*
Jeep Grand Cherokee *2014-2020*
Jeep Compass *2011-2017*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-438

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Dodge Durango *2016-2020*
Jeep Grand Cherokee *2011-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-439

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Acura MDX *2001-2006*
Honda Odyssey *1999-2004*
Honda Pilot *2003-2008*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

FEATURED PRODUCT

FEATURED PRODUCT

NEW

46-451

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Acura ZDX *2010-2013*
Acura MDX *2007-2013*
Honda Pilot *2009-2015*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-452

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Acura MDX *2014-2019*
Acura MDX Sport Hybrid *2017*
Honda Ridgeling *2017-2020*
Honda Pilot *2016-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-453

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Chrysler Sedan *2015-2017*
Jeep Cherokee *2014-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-454

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Chrysler 200 *2015-2017*
Jeep Cherokee *2014-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

NEW

46-455

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Toyota Prius *2016-2020*
Toyota C-HR *2018-2020*
Toyota Avalon *2013-2020*
Toyota Camry Hybrid *2018-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-456

REAR GREASEABLE CAMBER/TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Volkswagen Golf Sportwagon *2015-2019*
Volkswagen GTI *2010-2014*
Volkswagen Beetle Coupe *2011-2019*
Porsche Macan *2015-2020*
Audi A6/S6 *2012-2018*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-457

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Ford Fusion *2013-2019*
Lincoln MKX *2016-2018*
Ford Shelby GT350 Mustang *2016-2020*
Ford Edge *2015-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-458

REAR GREASEABLE CAMBER BOLT KIT

- Makes rear camber adjustments possible on the 2015-2018 Mustang
- Precise easy controlled adjustment
- No pry bar needed
- Fast on vehicle adjustment
- No drilling or modification required

Ford Mustang *2015-2020*
Ford Shelby GT350 Mustang *2016-2018*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

FEATURED PRODUCT

FEATURED PRODUCT

NEW

46-459

REAR GREASEABLE TOE BOLT

- Greaseable design keeps bolts lubricated to ensure that future adjustments can be achieved
- Direct replacement will restore factory adjustment to rusted or seized cam bolts
- Will remain adjustable for the life of the vehicle

Mini Cooper R55 *2008-2014*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-461

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Replacement Toe Bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Subaru Impreza *1999-2007*
Subaru Outback *1999-2007*

Adjustment Range: ±2°
Quantity: Pair
Sides Adjusted: 2

NEW

46-462

REAR GREASEABLE TOE BOLT

- Greaseable design keeps bolts lubricated to ensure that future adjustments can be achieved
- Direct replacement will restore factory adjustment to rusted or seized cam bolts
- Will remain adjustable for the life of the vehicle

Mini Cooper F56 *2014-2018*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-2233

REAR GREASEABLE ADJUSTABLE CAMBER ARM

- Turn buckle design
- Greaseable to allow for easy future adjustments
- Allows for positive or negative adjustments
- Precise controlled adjustment
- No drilling or modification required

Subaru Outback *2000-2009*
Subaru Legacy *2000-2009*
Subaru Baja *2003-2006*

Adjustment Range: ±2°
Quantity: Each
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

NEW

46-2239

REAR GREASEABLE ADJUSTABLE TOE ARM

- Adjustable rear toe arm
- Greaseable for long service life
- Will not seize like OE arm
- Very popular application

Toyota Camry/Hybird *2012-2017*
Toyota Avalon/Hybird *2013-2020*

Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

NEW

46-2240

REAR GREASEABLE ADJUSTABLE CAMBER ARM

- Turnbuckle design for easy on vehicle adjustment
- Greaseable Design
- Pro Series
- Replaces nonadjustable arm for rear camber
- Positive or negative adjustment

Honda Ridgeline *2006-2014*

Adjustment Range: ±2°
Quantity: Each
Sides Adjusted: 1

NEW

46-2241

REAR GREASEABLE ADJUSTABLE TOE ARM

- Turn buckle design
- Greaseable to allow for easy future adjustments
- Allows for positive or negative adjustments
- Precise controlled adjustment
- No drilling or modification required

Lincoln MKS *2009-2012*
Lincoln MKT *2010-2019*
Ford Flex *2009-2020*
Ford Taurus *2010-2018*

Adjustment Range: ±2.5°
Quantity: Each
Sides Adjusted: 1

NEW

46-2242

REAR GREASEABLE ADJUSTABLE TOE ARM

- Turn buckle design
- Greaseable to allow for easy future adjustments
- Allows for positive or negative adjustments
- Precise controlled adjustment
- No drilling or modification required

Buick Lacrosse/Allure *2005-2009*
Chevrolet Impala/Monte Carlo *2000-2005*

Adjustment Range: ±1.75°
Quantity: Each
Sides Adjusted: 1

FEATURED PRODUCT

PRO SERIES

"Professional Products for Professional Installers"

FRONT AND REAR GREASEABLE CAM BOLT ADJUSTABLE KITS

- Frozen Cam Bolts are a thing of the past with the NEW Pro Series cam bolts
- Tested stronger than original equipment!
- GM Greaseable replacement bolt kit with Quick Cams are a direct Replacement and will restore the factory adjustment.
- Greaseable allowing for ease of future adjustments
- Provides caster and pinion angle adjustments on vehicles with frozen OE bolts
- Replaces factory non-adjustable system on many models
- On many models this kit will greatly improve accessibility for easy Adjustment
- Works with OE cam guide
- Fast bolt-on-installation - no drilling or modifying required
- Tech friendly design
- Be a Pro, with Pro Series!

41-8262 FRONT CAMBER/CASTER

Chevrolet Tahoe 2000-2017
Chevrolet Express Van 2003-2017
Chevrolet Silverado 1500 1999-2017
Chevrolet Silverado 2500/3500 1999-2010
Chevrolet Suburban 1500 2000-2016
GMC Envoy 2003-2009
GMC Sierra 1500 1999-2017
GMC Sierra 2500/3500 1999-2010
Youkon XL 2WD 2000-2016
Hummer H2 2003-2009

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

41-8267 FRONT CAMBER/CASTER

Mazda Miata MX5 2006-2015

Adjustment Range: ±1.0°
Quantity: Kit
Sides Adjusted: 2

41-8272 FRONT CAMBER/CASTER

Chevrolet and GMC 1/2,3/4, 1 ton 4WD and 2WD Pick-Ups 1988-2000
Suburban 1992-2000

Adjustment Range: ±2.25°
Quantity: Kit
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

PRO SERIES
GREASEABLE

42-781 FRONT CAMBER/CASTER

Ford F150 SuperCrew® 4WD 2001-2003
Expedition 1997-2002
Lincoln Navigator 1998-2002
Ford F150/F250 2WD/4WD 1997-2003
Lincoln Blackwood 2WD/4WD 2002-2003

Adjustment Range: ±2.5°
Quantity: Pair
Sides Adjusted: 1

44-825 FRONT CASTER/PINION ANGLE

Dodge Ram HD 2wd 2011-2013
Dodge Ram 2500 4wd 2014-2017
Dodge Ram 3500 2wd 2013-2017
Dodge Ram 3500 4wd 2013-2017

Adjustment Range: Caster/Pinon Angle ±2°
Quantity: Pair
Sides Adjusted: 2

44-826 FRONT CAMBER/CASTER

Toyota Tacoma 1995-2004
Toyota 4-Runner 1996-2002

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

44-827 FRONT CAMBER/CASTER

Toyota Tacoma 2005-2015
Toyota 4-Runner 2003-2009
Toyota FJ Cruiser 2007-2009
Lexus GX 2003-2009

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

44-828 FRONT CAMBER/CASTER

Toyota 4-Runner 2010-2016
Toyota FJ Cruiser 2010-2014
Lexus GX 2010-2016

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

44-831 FRONT CAMBER/CASTER

Chevrolet Silverado 2500HD/3500 2011-2016
GMC Sierra 2500HD 2011-2016

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

44-834 FRONT CAMBER/CASTER

Dodge Dakota 2005-2011

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

44-836 FRONT CAMBER/CASTER

Ford Explorer Sport Trac 4WD 2001-2005
Ford Explorer/Explorer Sport 4WD 1995-2001
Ford Explored 2WD 1995-2001
Ford Ranger 2WD/4WD 1998-2012
Mazda B Series P/U 2WD/4WD 1998-2009
Mercury Mountaineer 2WD/4WD 1997-2001

Adjustment Range: ±3.25°
Quantity: Pair
Sides Adjusted: 1

44-862 FRONT CAMBER/CASTER

Nissan Armada 2WD/4WD 2005-2015
Nissan Frontier 2WD/4WD 2005-2017
Nissan Pathfinder 4WD 2005-2012
Nissan Titan 2WD/4WD 2004-2015
Suzuki Equator 2009-2012

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

44-864 FRONT CAMBER/CASTER

Ford F150 2WD/4WD 2004-2008
Lincoln Mark LT 2WD/4WD 2006-2008

Adjustment Range: Camber ±2°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

44-866 FRONT CAMBER/CASTER

Dodge Ram 1500 2WD/4WD 2002-2005

Adjustment Range: Camber ±1°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

46-431 REAR TOE

Subaru
Legacy 2000-2009
Outback 2000-2009
Baja 2003-2006
Tribeca 2006-2010

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

46-432 REAR CAMBER/TOE

Toyota Rav 4 2001-2005

Adjustment Range: ±1.75°
Quantity: Kit
Sides Adjusted: 2

FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
ACURA															
Acura 2.2CL/2.3CL/3.0CL	1997 - 1999	X		Control Arm W/BJ Ball Joint	41-545 41-530	41-530	79 78	88-7800A	0.50 / 0.90 0.90	Shim Rear Arm	46-2160 46-2181	Non Adj.	130 133		0.20 / - 0.50
Acura 3.2 CL	2001 - 2003	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	-	Non Adj.	Fac Adj.	-		- / -
Acura CSX	2006 - 2011	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2187	Fac Adj.	134		0.50 / -
Acura EL	2001 - 2002	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2180	Fac Adj.	132		0.30 / -
Acura EL	2003 - 2005	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	Rear Arm	46-2180	Fac Adj.	132		0.50 / -
Acura ILX Hybrid	2013 - 2015	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	Rear Arm	46-2187	46-434	134		0.50 / 0.30
Acura ILX	2013 - 2020	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	Rear Arm	46-2187	46-434	134		0.50 / 0.30
Acura Integra	1986 - 1989	X		-	Non Adj.	Non Adj.	-		- / -	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60
Acura Integra / IntegraType R	1990 - 2001	X		Control Arm W/BJ Ball Joint	41-545 41-532	41-532	79 78	88-1304 88-7800A	0.50 / 0.90 0.90	Shim Rear Arm	46-2160 46-2182	Fac Adj.	130 133		0.20 / - 0.70
Acura Legend	1986 - 1990	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Acura Legend	1991 - 1995	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	Shim	46-2160	Fac Adj.	130		0.20 / -
Acura MDX 4WD	2001 - 2006	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2192	46-439	135		0.50 / 0.50
Acura MDX 4WD	2007 - 2013	X		Axis Cam	41-218	Non Adj.	75		0.30 / -	Rear Arm	46-2196	46-451	136		0.50 / 0.30
Acura MDX 4WD	2014 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	46-452	-		- / 0.30
Acura MDX Sport Hybrid	2017	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	46-452	-		- / 0.30
Acura NSX	1991 - 2005	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Acura RDX 4WD	2007 - 2018	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Acura 3.5RL	1996 - 2004	X		Control Arm W/BJ Ball Joint	41-545 41-532	41-532	79 78	88-1304 88-7800A	0.50 / 0.90 0.90	- Rear Arm Rear Arm	Non Adj. 46-2181 46-2237	46-2237	- 133 139		- / 0.50 0.50 0.50
Acura 3.5RL	2005 - 2012	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Acura RLX	2014 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Acura RSX	2002	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2180	Fac Adj.	132		0.50 / -
Acura RSX MID Year 02	2002 - 2006	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2180	Fac Adj.	132		0.50 / -
Acura SLX 4WD	1996 - 1999		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Acura 2.5 TL	1995 - 1998	X		Control Arm W/BJ Ball Joint	41-545 41-530	41-530	79 78	88-7800A	0.50 / 0.90 0.90	Shim	46-2160	Fac Adj.	130		0.20 / -
Acura 3.2 TL	1996 - 1998	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	Shim	46-2160	Fac Adj.	130		0.20 / -
Acura 3.2 TL	1999 - 2003	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	Rear Arm Rear Arm Rear Arm	46-2190 46-2181 46-2237	46-2237	135 133 139		0.70 / 0.50 0.50 0.50
Acura TL	2004 - 2008	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	Rear Arm	46-2195	Fac Adj. 46-2195	136		0.70 / - 0.70
Acura TL	2009 - 2014	X		Ball Joint	41-532	41-532	78	88-1304	0.90 / 0.90	Rear Arm	46-2184	Fac Adj. 46-2183 46-2234	133		0.30 / - 0.30 0.30
Acura TLX AWD	2015 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2184	46-2183 46-2234	133		0.30 / 0.30 0.30

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Acura TLX FWD	2015 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Acura TSX	2004 - 2008	X		Ball Joint	41-532	41-532	78	88-1304 88-7890A	0.90 / 0.90	Rear Arm	46-2195	Non Adj. 46-2195	136		0.70 / - 0.70
Acura TSX	2009 - 2014	X		Ball Joint	41-532	41-532	78	88-1304 88-7890A	0.90 / 0.90	Rear Arm	46-2184	Fac Adj. 46-2183	133		0.30 / - 0.30
Acura Vigor	1992 - 1994	X		Control Arm W/BJ Ball Joint	41-545 41-530	41-530	79 78	88-7800A	0.50 / 0.90 0.90	Shim	46-2160	Fac Adj.	130		0.20 / -
Acura ZDX	2010 - 2013	X		Axis Cam	41-218	Non Adj.	75		0.30 / -	Rear Arm	46-2196	46-451	136		0.50 / 0.30
ALFA ROMEO															
Alfa ROMEO 4C	2014 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Alfa Romeo Giulia	2017 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Alfa Romeo Stelvio	2017 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
AUDI															
Audi 100/200 FWD	1989 - 1994	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Audi 100/200 Quattro/S4	1989 - 1994	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi 100 series	1970 - 1977	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130		0.60 / 0.60 0.60 / 0.60
Audi 4000 quattro	1984 - 1987	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi 5000 FWD	1978 - 1988	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Audi 90 FWD	1988	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Audi 5000 Quattro	1986 - 1988	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi 80	1988 - 1992	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Audi 80/90 Quattro	1988 - 1995	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi A3	2006 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi A3	2015 - 2019	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi A4, A4/ S4 Quattro	1996 - 2008	X		- Control Arm W/BJ	Non Adj. 41-8326-3	Non Adj.	- 85		- / - 0.70	-	Non Adj.	Non Adj.	-		- / -
Audi A4, A4/ S4 Quattro (Sedan & Wagon)	2009 - 2019	X		Control Arm W/BJ Control Arm W/BJ	41-8326 41-8326-3	41-8326	85 85		0.70 / 0.70 0.70	-	Non Adj.	Non Adj.	-		- / -
Audi A5, A5 Quattro, S5	2008	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Audi A5, A5 Quattro, S5	2009 - 2019	X		Control Arm W/BJ	41-8326	41-8326	85		0.70 / 0.70	-	Non Adj.	Non Adj.	-		- / -
Audi A6	1995 - 2011		X	-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Audi A6 Avant	1999 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi A6 Allroad	2001 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi A6/S6	2012 - 2018	X		Control Arm W/BJ	41-8326	Non Adj.	85		0.50 / -	Cam Bolt	46-456	46-456	124		0.30 / 0.30
Audi A6 Quattro	1995 - 1997	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi A6 Quattro	1998 - 2011	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Audi A7 Quattro, Audi S7	2012 - 2019	X		Control Arm W/BJ	41-8326	41-8326	85		0.70 / 0.70	-	Fac Adj.	Fac Adj.	-		- / -
Audi A8	1997 - 2000	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi A8 Quattro	1997 - 2014	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi Allroad Quattro	2001 - 2005	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi Cabriolet	1994 - 1998		X	Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Audi Fox	1975 - 1979	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Audi Q3	2015 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi Q5	2009 - 2019	X		- Control Arm W/BJ	Non Adj. 41-8326	Non Adj. 41-8326	- 85		- / - 0.70 / 0.70	-	Fac Adj.	Fac Adj.	-		- / -
Audi Q5 Hybrid	2013 - 2016	X		Control Arm W/BJ	41-8326	41-8326	85		0.70 / 0.70	-	Non Adj.	Non Adj.	-		- / -
Audi Q7	2007 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi Quattro	1983 - 1986	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi S4	2000 - 2019	X		- Control Arm W/BJ	Non Adj. 41-8326	Non Adj. 41-8326	- 85		- / - 0.70 / 0.70	-	Fac Adj.	Fac Adj.	-		- / -
Audi S6 Quattro	1995 - 2002	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi S8	2001 - 2003	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi S8	2007 - 2010	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi S8	2013 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi SQ5	2014 - 2019	X		Control Arm W/BJ	41-8326	41-8326	85		0.70 / 0.70	-	Fac Adj.	Fac Adj.	-		- / -
Audi TT	2000 - 2010	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Audi TT/ Quattro	2000 - 2006	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi TT	2008 - 2013	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Audi TT	2016 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Audi V8 Quattro	1990 - 1994	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW															
BMW 1 Series 118i,120i,125i,128i,130i,135i,135is	2007 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2225	Non Adj.	137		- / -
BMW 2 Series 220i,228i,235i,230i	2014 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 318i (incl. is,ti)	1984 - 1999	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
BMW 320i (incl. x Drive)	1977 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
BMW 323 (incl. Ci,i,ti)	1997 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 3 Series 325 (incl.Ci,e,i,xi,ix,is)	1984 - 2005	X		-	Non Adj.	Non Adj.	-		- / -			Non Adj.			-
BMW 3 Series (330i,325i,328i,335i,335xi,335d)	2006 - 2014	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2225	Non Adj.	137		- / -
BMW 328(incl. Ci,d,i,is,xi)	1996 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 330	2001 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 335	2007 - 2015	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -

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BMW 340	2016 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 520i	2014 - 2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 524td	1985 - 1986	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 524td	1985 - 1986	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 525i	1989 - 2010	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 525xi	2006 - 2007	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 528e	1982 - 1988	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 528e	1982 - 1988	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 530i/530xi	1975 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 530xi	2006 - 2007	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 550i	2006 - 2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 6 Series	1977 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW 7 series (E38)	1995 - 2001	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW 8 Series (incl. 840Ci/850Ci/850CSi/850i)	1991 - 1999	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW i3	2014 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW i8	2014 - 2017	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW M1	1998 - 2002		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW E46/M3	1999 - 2011	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW M5, M5 Touring (E34)	1991 - 1993	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
BMW X1	2012 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW X3	2004 - 2020	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW X4	2015 - 2020	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW X5	2000 - 2006	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW X5	2007 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW X6	2008 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW X7	2019 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW Z1	1996 - 2002	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW Z3	1996 - 2002	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BMW Z4	2003 - 2016	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BMW Z8 (E52)	2000 - 2003	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
BRISTOL															
Peugeot All	1945 - 2009		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
BUICK															
Buick Lacrosse (Non HiPer Strut)	2010 - 2019	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	- Dual Axis Cam bolt	Fac Adj. 46-427	Fac Adj. 46-428	- 121		- / - 0.30 / 0.30

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MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Buick Lacrosse (with HiPer Strut)	2010 - 2019	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Buick Allure w/o HiPer Strut	2010	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Buick Rear Wheel Drive	1971 - 1996		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Buick Cascada	2016 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Buick Century FWD	1985 - 1996	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Buick Century FWD	1997 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30
Buick Park Ave/Electra/Ultra LaSabre FWD	1985 - 1996	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Shim Shim Magna Cam	41-160[2] 46-1300[1] 46-2400[1] 41-216	Fac Adj. 46-1300[1] 46-2400[1]	74 127 130 75	88-050 88-1110 88-343	0.30 / - 0.60 / 0.60 0.60 / 0.60 0.30
Buick Enclave	2008 - 2017	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	- Cam Bolt Camber Kit	Fac Adj. 41-8257 46-421	Fac Adj. 41-8257	- 82 120	88-7996A	- / - 0.30 / 0.30 1.00
Buick Enclave	2018 - 2020	X		- Axis Cam	Fac Adj. 41-212	Non Adj.	- 75		- / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Buick Encore	2013 - 2019	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Buick Envision w/o HiPer Strut	2016 - 2020	X		Axis Cam	41-212	Fac Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Buick Envision w/ HiPer Strut	2016 - 2020	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Buick Lacrosse	2005 - 2009	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-158[2] 41-214	46-2242	74 75		0.30 / 0.50 0.30
Buick LeSabre	1986 - 1999	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Shim Shim	41-160[2] 46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	74 127 130	88-050 88-1110 88-343	0.30 / - 0.60 / 0.60 0.60 / -
Buick LeSabre	2000 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1900 SERIES	41-8246	130		0.80 / 0.60
Buick Lucerne	2006 - 2011	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	- Shim	Non Adj. 46-1300 SERIES[1]	Fac Adj. 46-1300 SERIES[1]	- 127		- / - 0.60 / 0.60
Buick Park Ave/Ultra	1997 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim Axis Cam	46-1900 SERIES 41-216	Fac Adj.	130 75		0.80 / - 0.30
Buick Rainier 2WD/4WD	2004 - 2007		X	Camber-Caster Tool	88-8929	88-8929	156		- / -	-	Non Adj.	Non Adj.	-		- / -
Buick Riviera/Reatta	1985 - 1993	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1600	Fac Adj.	128		0.60 / -
Buick Regal	1988 - 1996	X		- Shim	Fac Adj. 45-7010[4]	Fac Adj.	- 117	88-060	- / - 0.50	Magna Cam Axis Cam	41-160[2] 41-216	Fac Adj.	74 75	88-8923	0.30 / - 0.30
Buick Regal	1997 - 2004	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30
Buick Regal (Non HiPer Strut)	2011 - 2018	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	- Dual Axis Cam bolt	Fac Adj. 46-427	Fac Adj. 46-428	- 121		- / - 0.30 / 0.30
Buick Rendezvous	2002 - 2007	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Shim	Fac Adj. 46-1300 SERIES[1]	Fac Adj. 46-1300 SERIES[1]	- 127		- / - 0.60 / 0.60
Buick Riviera	1995 - 1999	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Buick Skyhawk	1985 - 1989	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Buick Skylark	**1964 - 1979**	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Buick Skylark	**1980 - 1998**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Buick Somerset	**1985 - 1987**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Buick Terraza FWD	**2005 - 2007**	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130		0.60 / 0.60 0.60 / 0.60
Buick Terraza AWD	**2005 - 2007**	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Buick Verano	**2012 - 2017**	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	Shim	46-7100	46-7100	143		- / -
CADILLAC															
Cadillac Allante	**1987 - 1992**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1600	Fac Adj.	128	88-050 88-1110 88-343	0.60 / -
Cadillac Allante	**1993**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac ATS	**2013 - 2019**	X		Cam Bolt	41-216	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Cadillac ATS-V	**2016 - 2019**	X		Axis Cam	41-216	Fac Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac Brougham	**1987 - 1992**	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Cadillac Catera	**1997 - 2001**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Cadillac Cimarron	**1982 - 1988**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60
Cadillac CT6	**2016 - 2020**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac CTS	**2003 - 2007**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac CTS (inc. CTS-V)	**2003 - 2007**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac CTS (inc. CTS-V)	**2008 - 2013**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac CTS Sedan	**2014 - 2019**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac CTS Coupe/Wagon	**2014 - 2015**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac CTS Sedan (Except CTS-V)	**2014 - 2015**	X		Axis Cam	41-216	Non Adj.	75		0.32 / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac DeVille	**1985 - 1993**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam	41-160[2]	Fac Adj.	74		0.30 / -
Cadillac DeVille	**1994 - 1999**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac DeVille	**2000 - 2005**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1900	Fac Adj.	130		0.80 / -
Cadillac DTS	**2006 - 2011**	X		Axis Cam Magna Cam	41-216 41-159[2]	Fac Adj.	75 74		0.30 / - 0.30	Shim Shim	46-1500[1] 46-2300[1]	46-1500[1] 46-2300[1]	127 130		0.60 / 0.60 0.60 / 0.60
Cadillac Eldorado	**1967 - 1978**		X	- Cam Bolt	Fac Adj. 41-8247	Fac Adj. 41-8247	- 81		- / - 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Cadillac Eldorado	**1979 - 1985**	X		- Cam Bolt	Fac Adj. 41-8247	Fac Adj. 41-8247	- 81		- / - 1.00 / 1.00	Shim Shim	46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / - 0.60 / 0.60 0.60
Cadillac Eldorado	**1986 - 1992**	X		Magna Cam Axis Cam	41-160[2] 41-216	Fac Adj.	74 75		0.30 / - 0.30	Shim	46-1600	Fac Adj.	128		0.50 / -

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3. For models with slotted strut brackets only.
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				FRONT WHEEL ALIGNMENT						REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Cadillac Eldorado	1993 - 2002	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac ELR	2014 - 2016	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-7100 46-2300[1]	46-7100 46-2300[1]	143 130		- / - 0.60 / 0.60
Cadillac Escalade	1999 - 2000		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Cadillac Escalade/EXT	2002 - 2006		X	- Bushing Cam Bolt Replacement Pins Quick Cam Greaseable Cam Bolt Ball Joint Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 41-8262 44-2499 44-2725	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 41-8262 44-2499 44-2725	- 106 81 106 105 83 105 108	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.90 / 0.90 0.80 / 0.80	-	Non Adj.	Non Adj.	-		- / -
Cadillac Escalade	2007 - 2020		X	- Bushing Cam Bolt Replacement Pins Quick Cam Greaseable Cam Bolt Control Arm W/BJ Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 41-8262 44-2726L 44-2726R	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 41-8262 44-2726L 44-2726R	- 106 81 106 105 83 112 112	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Cadillac Fleetwood RWD	1975 - 1996		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Cadillac Fleetwood FWD	1985 - 1993	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30
Cadillac Seville	1980 - 1985	X		- Cam Bolt	Fac Adj. 41-8247	Fac Adj. 41-8247	- 81		- / - 1.00 / 1.00	Shim Shim	46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / - 0.60 / 0.60 0.60
Cadillac Seville	1986 - 1992	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1600	Fac Adj.	128		0.50 / -
Cadillac Seville/STS	1993 - 1997	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac Seville/STS	1998 - 2011	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1900	Fac Adj.	130		0.80 / -
Cadillac SRX	2004 - 2009	X		-	Fac Adj.		-		-	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac SRX	2010 - 2016	X		Axis Cam Magna Cam	41-216 41-159[2]		75 74		0.30 0.30	Shim Shim	46-1200 SERIES[1] 46-2300[1]	46-1200 SERIES[1] 46-2300[1]	127 130		0.60 / 0.60 0.60 / 0.60
Cadillac XLR/XLR-v	2004 - 2009	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac XT4	2019 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac XT5	2017 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Cadillac XT6	2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Cadillac XTS (Non HiPer Strut)	2013 - 2019	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Dual Axis Cam bolt	46-427	46-428	121		0.30 / 0.30
Cadillac XTS (w/ HiPer Strut)	2013 - 2019	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Dual Axis Cam bolt	46-427	46-428	121		0.30 / 0.30
CHEVROLET															
Chevrolet Astro 2WD	1985 - 2005		X	Shim	CC	CC	113		- / -			Non Adj.			-
Chevrolet Astro 4WD	1990 - 2003		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chevrolet Avalanche 1500 2WD/4WD	**2007 - 2013**		X	- Bushing Cam Bolt Quick Cam Replacement Pins Greaseable Cam Bolt Control Arm W/BJ Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44-2726R	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44-2726R	- 106 81 105 106 83 112 112	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Avalanche 1500 2WD/4WD	**2002 - 2006**		X	- Bushing Cam Bolt Camber Kit Camber Kit Greaseable Cam Bolt Ball Joint	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2499	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2499 44-2725	- 106 81 105 106 83 105	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.50 / 0.50 0.30 / 0.30 0.50 / 0.50 0.90 / 0.90 0.80	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Avalanche 2500	**2002 - 2006**		X	- Bushing Cam Bolt Quick Cam Replacement Pins Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2510 41-8251 44-2506 44-2508 44-2498 44-2730 41-8262	Fac Adj. 44-2510 41-8251 44-2506 44-2508 44-2498 44-2730 41-8262	- 106 81 105 106 105 110 83	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.90 / 0.90 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Aveo	**2004 - 2011**	X		Magna Cam Axis Cam	41-144 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130		0.60 / 0.60 0.60 / 0.60
Chevrolet Aveo	**2012 - 2014**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim	46-7100	46-7100	143		- / -
Chevrolet Bel Air 2WD	**1975**		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Beretta/Corsica	**1987 - 1995**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Beretta/Corsica	**1996**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Biscayne	**1958 - 1972**	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Biscayne 'B' Body	**1971 - 1972**	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Blazer Full Size 4WD	**1970 - 1991**		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Chevrolet Blazer Full Size 4WD	**1987 - 1994**		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet S10 Pickup Downsize 4WD	**1983 - 2004**		X	- Cam Bolt	Fac Adj. 41-8246	Fac Adj. 41-8246	- 81		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Blazer	**2019 - 2020**	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Chevrolet Bolt EV	**2017 - 2020**	X		Cam Bolt	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet C Series Pickup 2WD	**1975 - 1986**		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet C10/C20 Suburban 2WD	**1972 - 1986**		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet C/k Series Pickup	**1988 - 1999**		X	Cam Bolt Greaseable Cam Bolt Bushing	41-8250[5] 41-8272 44-2509[5]	41-8250[5] 41-8272 44-2509[5]	81 84 106	88-7491	0.60 / 0.60 0.60 / 0.60 0.80 / 0.80	-	Non Adj.	Non Adj.	-		- / -
Chevrolet C Series Pickup 2WD	**1992 - 1998**		X	Cam Bolt Greaseable Cam Bolt	41-8250[5] 41-8272	41-8250[5] 41-8272	81 84	88-7491	0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -

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5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
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9. For truck models with rear camber

FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chevrolet C Series Pickup w/rear drum brakes 2WD	**1995 - 2000**		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Kodiak C4500 C5500 4WD	**2003 - 2009**		X	Bushing Bushing	44-6020 44-5037	44-6020 44-5037	113 112		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Kodiak C4500 C5500 2WD	**2005 - 2009**		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Camaro	**1967 - 1981**		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Camaro	**1982 - 1992**		X	-	Fac Adj.	Fac Adj.	-	88-8923	- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Camaro	**1993 - 2002**		X	-	Fac Adj.	Fac Adj.	-	88-8925	- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Camaro	**2010 - 2020**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	- Cam Bolt	Fac Adj. 46-182	Fac Adj. 46-182	- 120		- / - 0.30 / 0.30
Chevrolet Caprice	**1966 - 1996**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Caprice	**2011 - 2017**	X		Axis Cam Magna Cam	41-214 41-157[2]	Fac Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-182	46-182	120		0.30 / 0.30
Chevrolet Captiva	**2008 - 2015**	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Cam Nut	44-775	44-775	95		0.30 / 0.30
Chevrolet Captiva Sport	**2012 - 2015**	X		Axis Cam Magna Cam	41-214 41-158[2]		75 74		0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Cavalier	**1982 - 1994**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Cavalier	**1995 - 2005**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Celebrity	**1982 - 1990**	X		- Magna Cam Cam Bolt	Fac Adj. 41-160[2] 41-8245	Non Adj.	- 74 81		- / - 0.30 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Chevelle	**1964 - 1973**	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Chevette	**1976 - 1987**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Citation	**1980 - 1985**	X		- Magna Cam Cam Bolt	Fac Adj. 41-160[2] 41-8245	Non Adj.	- 74 81		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110	0.60 / 0.60 0.60 / 0.60
Chevrolet City Express	**2015 - 2019**	X		Axis Cam Magna Cam	41-214 41-157[2]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Classic	**2004 - 2005**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Axis Cam	41-212	Non Adj.	75		0.30 / -
Chevrolet Cobalt	**2005 - 2010**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1520[1]	46-1520[1]	127		0.60 / 0.60
Chevrolet Colorado 2WD	**2004 - 2012**		X	- Cam Bolt Quick Cam Replacement Pins Greaseable Cam Bolt	Fac Adj. 41-8251 44-2507 44-2508 41-8262	Fac Adj. 41-8251 44-2507 44-2508 41-8262	- 81 105 106 83		- / - 0.50 / 0.50 0.30 / 0.30 0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Colorado 4WD	**2004 - 2012**		X	- Quick Cam Replacement Pins Cam Bolt Greaseable Cam Bolt	Fac Adj. 44-2507 44-2508 41-8251 41-8262	Fac Adj. 44-2507 44-2508 41-8251 41-8262	- 105 106 81 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Colorado	**2015 - 2020**		X	- Greaseable Cam Bolt Cam Bolt Replacement Pins	Fac Adj. 44-831 44-832 44-2512	Fac Adj. 44-831 44-832 44-2512	- 99 100 107		- / - 0.50 / 0.50 0.50 / 0.50 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

CHEVROLET

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chevrolet Corvette	1963 - 1982	X		- Shim	Fac Adj. CC	CC	- 113		- / - -	- Cam Bolt	Fac Adj. 41-8243	Fac Adj. 46-6020 46-6030 46-6040	- 80		- / - 0.60 / 0.30 0.30 0.30
Chevrolet Corvette	1984 - 2014	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Chevrolet Corvette C5/C6/C7	1997 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Chevrolet Cruze	2011 - 2019	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	Shim	46-7100	46-7100	143		- / -
Chevrolet El Camino	1959 - 1964	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet El Camino 2WD	1965 - 1987		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Equinox	2005 - 2017	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Cam Nut	44-775	44-775	95		0.30 / 0.30
Chevrolet Equinox	2018 - 2020	X		Cam Bolt	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Chevrolet Express Van	1996 - 2002		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84		- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Express Van 2WD 1500/2500	2003 - 2020		X	- Quick Cam Cam Bolt Replacement Pins Bushing Ball Joint Greaseable Cam Bolt Control Arm W/BJ	Fac Adj. 44-2506 41-8251 44-2508 44-2509[5] 44-2499 41-8262 44-2725	Fac Adj. 44-2506 41-8251 44-2508 44-2509[5] 44-2499 41-8262 44-2725	- 105 81 106 106 105 83 108		- / - 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.80 / 0.80 0.90 / 0.90 0.50 / 0.50 0.80 / 0.80	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Express Van 4WD 1500/2500	2003 - 2020		X	- Quick Cam Cam Bolt Replacement Pins Bushing Ball Joint Greaseable Cam Bolt Control Arm W/BJ	Fac Adj. 44-2506 41-8251 44-2508 44-2509[5] 44-2499 41-8262 44-2725	Fac Adj. 44-2506 41-8251 44-2508 44-2509[5] 44-2499 41-8262 44-2725	- 105 81 106 106 105 83 108		- / - 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.80 / 0.80 0.90 / 0.90 0.50 / 0.50 0.80 / 0.80	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Express Van 4WD 3500/4500	2003 - 2020		X	- Quick Cam Replacement Pins Cam Bolt Bushing Greaseable Cam Bolt	Fac Adj. 44-2506 44-2508 41-8251 44-2509[5] 41-8262	Fac Adj. 44-2506 44-2508 41-8251 44-2509[5] 41-8262	- 105 106 81 106 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.80 / 0.80 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Express Van 2WD 3500/4500	2003 - 2020		X	- Quick Cam Cam Bolt Replacement Pins Bushing Greaseable Cam Bolt	Fac Adj. 44-2506 41-8251 44-2508 44-2509[5] 41-8262	Fac Adj. 44-2506 41-8251 44-2508 44-2509[5] 41-8262	- 105 81 106 106 83		- / - 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.80 / 0.80 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet G10/G20 G30 Van	1975 - 1996	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet HHR	2006 - 2011	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1520[1]	46-1520[1]	127		0.60 / 0.60
Chevrolet Impala	2000 - 2005	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-158[2] 41-214	46-2242	74 75		0.30 / - 0.30
Chevrolet Impala	2006 - 2013	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30
Chevrolet Impala	2014 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	- Dual Axis Cam bolt	Fac Adj. 46-427	Fac Adj. 46-428	- 121		- / - 0.30 / 0.30
Chevrolet Impala Limited	2014 - 2016	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Axis Cam	41-214	Fac Adj.	75		0.30 / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
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1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
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6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chevrolet K Series (Dana 60) 4WD	1961 - 1990		X	Camber Kit	44-910	Non Adj.	102		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet K Series (except Dana 60) 4WD	1970 - 1986		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Chevrolet Suburban 4WD	1970 - 1986		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Chevrolet Suburban 4WD	1992 - 1999		X	Cam Bolt Greaseable Cam Bolt	41-8250[5] 41-8272	41-8250[5] 41-8272	81 84	88-7090 88-7491	0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado 4500/5500/6500 4WD	2019 - 2020		X	Bushing	44-6020	44-6020	113		1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Chevrolet LLV Postal Vehicle 2WD	1987 - 1995		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Lumina	1990 - 1996	X		- Axis Cam	Fac Adj. 41-212	Non Adj.	- 75	88-060	- / - 0.30	- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75	88-8923	- / - 0.30 0.30
Chevrolet Lumina	1997 - 2001	X		-	Fac Adj.	Non Adj.	-	88-060 88-1112	- / -	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75	88-8923	- / - 0.30 0.30
Chevrolet Lumina APV	1990 - 1996	X		- Magna Cam Cam Bolt	Fac Adj. 41-160[2] 41-8245	Non Adj.	- 74 81		- / - 0.30 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Malibu/MonteCarlo	1965 - 1983		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Malibu	1997 - 2003	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-144 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30
Chevrolet Malibu / Maxx	2004 - 2012	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	- Dual Axis Cam bolt	Fac Adj. 46-425	Fac Adj. 46-426	- 121		- / - 0.30 / 0.30
Chevrolet Malibu (Classic)	2004 - 2005	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	- Axis Cam	Fac Adj. 41-212	Fac Adj.	- 75		- / - 0.30
Chevrolet Malibu	2013 - 2020	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	- Dual Axis Cam bolt	Fac Adj. 46-427	Fac Adj. 46-428	- 121		- / - 0.30 / 0.30
Chevrolet Metro	1998 - 2001	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Chevrolet Monte Carlo	1970 - 1972	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Monte Carlo	1973 - 1977	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Monte Carlo	1978 - 1988	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Monte Carlo	1995 - 1999	X		- Shim	Fac Adj. 45-7010[4]	Fac Adj.	- 117	88-060 88-1112	- / - 0.50	- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30
Chevrolet Monte Carlo	2000 - 2007	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30
Chevrolet Nova	1969 - 1979		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Nova FWD	1985 - 1988	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim Shim Magna Cam Axis Cam	46-1300[1] 46-2400[1] 41-147[3] 41-212	Fac Adj. 46-1300[1] 46-2400[1]	127 130 74 75	88-343	0.60 / - 0.60 / 0.60 0.30 / 0.60 0.30
Chevrolet Optra	2004 - 2010	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Axis Cam	41-212	Fac Adj.	75		0.30 / -
Chevrolet P Series Van 2WD	1977 - 1999		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet P Series Van/I Beam Axle 2WD	1985 - 1999		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Prizm	1998 - 2002	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		0.30 / - 0.30 0.30	- Axis Cam	Fac Adj. 41-212	Fac Adj.	- 75		- / - 0.30
Chevrolet R Series Pickup 2WD	1987 - 1988		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chevrolet Suburban 4WD	**1987 - 1991**		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Chevrolet S10 Blazer 2WD	**1983 - 1994**		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado HD 2500 2WD/4WD	**1999**		X	- Bushing Ball Joint Control Arm W/BJ	Fac Adj. 44-2510 44-2498 44-2730	Fac Adj. 44-2510 44-2498 44-2730	- 106 105 110	88-7950A	- / - 0.80 / 0.80 0.90 / 0.90 0.90 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado 1500 2WD/4WD	**1999 - 2006**		X	- Bushing Cam Bolt Replacement Pins Quick Cam Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 44-2499 44-2725 41-8262	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 44-2499 44-2725 41-8262	- 106 81 106 105 105 108 83	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.90 / 0.90 0.80 / 0.80 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado 1500 2WD/4WD	**2007 - 2013**		X	- Bushing Cam Bolt Replacement Pins Quick Cam Control Arm W/BJ Greaseable Cam Bolt Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 44-2726L 41-8262 44-2726R	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 44-2726L 41-8262 44-2726R	- 106 81 106 105 112 83 112	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.60 / 0.60 0.50 / 0.50 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado 1500 2WD/4WD (Forged Arm)	**2014 - 2016**		X	- Bushing Cam Bolt Replacement Pins Quick Cam Control Arm W/BJ Greaseable Cam Bolt Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 44-2726L 41-8262 44-2726R	Fac Adj. 44-2509[5] 41-8251 44-2508 44-2506 44-2726L 41-8262 44-2726R	- 106 81 106 105 112 83 112	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.60 / 0.60 0.50 / 0.50 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado 1500 2WD/4WD (Aluminum Arm)	**2014 - 2018**		X	Bushing Cam Bolt Replacement Pins Quick Cam Greaseable Cam Bolt Control Arm W/BJ Control Arm W/BJ	44-2509[5] 41-8251 44-2508 44-2506 41-8262 44-2728L 44-2728R	44-2509[5] 41-8251 44-2508 44-2506 41-8262 44-2728L 44-2728R	106 81 106 105 83 112 112	88-7950A	0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado 1500 2WD/4WD	**2016**		X	- Replacement Pins	Fac Adj. 44-2512	Fac Adj. 44-2512	- 107		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado 1500 (2WD/4WD)	**2019 - 2020**	X		Replacement Pins	44-2512	44-2512	107		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado HD 1500/2500/3500 2WD/4WD	**1999 - 2010**		X	- Bushing Cam Bolt Quick Cam Replacement Pins Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2510 41-8251 44-2506 44-2508 44-2498 44-2730 41-8262	Fac Adj. 44-2510 41-8251 44-2506 44-2508 44-2498 44-2730 41-8262	- 106 81 105 106 105 110 83	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.90 / 0.90 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Silverado HD 2500/3500 2WD/4WD	**2011 - 2020**		X	- Greaseable Cam Bolt Camber Kit Replacement Pins Control Arm W/BJ	Fac Adj. 44-831 44-832 44-2512 44-2727	Fac Adj. 44-831 44-832 44-2512 44-2727	- 99 100 107 109		- / - 0.50 / 0.50 0.50 / 0.50 0.30 / 0.30 0.90 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Sonic	**2012 - 2020**	X		Axis Cam Magna Cam	41-214 41-157[2]		75 74		0.30 0.30	Shim	46-7100	46-7100	143		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

					FRONT WHEEL ALIGNMENT					REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chevrolet Spark	**2012 - 2020**	X		Axis Cam Magna Cam	41-212 41-147[3]		75 74		0.30 0.30	Shim	46-7100	46-7100	143		- / -
Chevrolet Spectrum	**1985 - 1988**	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Sprint	**1985 - 1988**	X		- Magna Cam Wedge Kit	Fac Adj. 41-147[3] 41-300	Non Adj.	- 74 76		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Chevrolet SS	**2014 - 2017**	X		Axis Cam Magna Cam	41-216 41-159[2]	Fac Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-182	46-182	120		0.30 / 0.30
Chevrolet SSR AWD	**2003 - 2006**		X	Camber- Caster Tool	88-8929	88-8929	156		- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Suburban 1500 2WD/4WD	**2007 - 2018**		X	- Bushing Cam Bolt Quick Cam Replacement Pins Greaseable Cam Bolt Control Arm W/BJ Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44-2726R	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44- 2726R	- 106 81 105 106 83 112 112	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Suburban 1500 2WD/4WD	**1999 - 2006**		X	- Bushing Cam Bolt Quick Cam Replacement Pins Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 44-2499 44-2725 41-8262	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 44-2499 44-2725 41-8262	- 106 81 105 106 105 108 83	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.90 / 0.90 0.80 / 0.80 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Suburban 2500HD 2WD	**2000 - 2013**		X	- Bushing Replacement Pins Cam Bolt Quick Cam Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2510 44-2508 41-8251 44-2506 44-2498 44-2730 41-8262	Fac Adj. 44-2510 44-2508 41-8251 44-2506 44-2498 44-2730 41-8262	- 106 106 81 105 105 110 83		- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.90 / 0.90 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Suburban 2500HD 4WD	**2000 - 2013**		X	- Bushing Replacement Pins Cam Bolt Quick Cam Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2510 44-2508 41-8251 44-2506 44-2498 44-2730 41-8262	Fac Adj. 44-2510 44-2508 41-8251 44-2506 44-2498 44-2730 41-8262	- 106 106 81 105 105 110 83		- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.90 / 0.90 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Tahoe/Rear drum brakes 2WD	**1995 - 2000**		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	41-8250[5] 41-8272	- 81 84		- / 0.90 0.90 / 0.90 0.90	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Tahoe 4WD	**1995 - 2000**		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 41.00 / 41.00	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Tahoe 2WD/4WD	**1999 - 2006**		X	- Bushing Cam Bolt Quick Cam Replacement Pins Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 44-2499 44-2725 41-8262	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 44-2725 44-2499 41-8262	- 106 81 105 106 105 108 83	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.90 / 0.80 0.80 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chevrolet Tahoe 2WD/4WD	**2007 - 2020**		X	- Bushing Cam Bolt Quick Cam Replacement Pins Greaseable Cam Bolt Control Arm W/BJ Control Arm W/BJ Control Arm W/BJ Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44-2726R 44-2728L 44-2728R	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44-2726R 44-2728L 44-2728R	- 106 81 105 106 83 112 112 112 112	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.60 / 0.60 0.60 / 0.60 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Tracker 2WD/4WD	**1989 - 2005**		X	- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Trail Blazer 2WD/4WD	**2002 - 2009**		X	Camber-Caster Tool	88-8929	88-8929	156	88-8929	- / -	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Traverse	**2009 - 2017**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	- Cam Bolt Camber Kit	Fac Adj. 41-8257 46-421	Non Adj.	- 82 120	88-7996A	- / - 0.30 1.00
Chevrolet Traverse	**2018 - 2020**	X		Cam Bolt	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Chevrolet Trax	**2015 - 2020**	X		Axis Cam Magna Cam	41-214 41-157[2]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Chevrolet Uplander FWD/AWD	**2005 - 2009**	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	- Shim Shim	Fac Adj. 46-1300 SERIES[1] 46-2400[1]	Fac Adj. 46-1300 SERIES[1] 46-2400[1]	- 127 130		- / - 0.60 / 0.60 0.60 / 0.60
Chevrolet V Series P/U 4WD	**1987 - 1991**		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Chevrolet Venture Van	**1997 - 2005**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Chevrolet Venture AWD	**2002 - 2005**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Chevrolet Volt	**2011 - 2019**	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
CHRYSLER															
Chrysler 200	**2011 - 2014**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Shim Rear Arm	46-1500 SERIES[1] 46-2176	46-437 46-1500 SERIES[1]	127 131		0.60 / 0.30 0.60 / 0.60
Chrysler 200	**2015 - 2017**	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	46-453	46-454	123		0.30 / 0.30
Chrysler 300C AWD	**2005 - 2019**	X		- Cam Bolt Control Arm W/BJ Control Arm W/BJ	Fac Adj. 41-8260 41-8329L 41-8329R	Fac Adj. 41-8260	- 82 89 89		- / - 0.90 / 0.90 0.90 0.90	Bushing	46-162	Fac Adj.	117		0.60 / -
Chrysler 300C 2WD	**2004 - 2008**	X		Ball Joint Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-232 41-8259 41-8321L 41-8321R	41-232 41-8259 41-8321L 41-8321R	76 82 89 89		0.90 / 0.90 0.90 / 0.90 0.60 / 0.60 0.60 / 0.60	Bushing	46-162	Fac Adj.	117		0.60 / -
Chrysler 300C 2WD	**2009 - 2019**	X		Ball Joint Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-232 41-8259 41-8322L 41-8322R	41-232 41-8259 41-8322L 41-8322R	76 82 89 89		0.90 / 0.90 0.90 / 0.90 0.60 / 0.60 0.60 / 0.60	Bushing	46-162	Fac Adj.	117		0.60 / -
Chrysler 300M/LHS	**1994 - 2004**	X		- Magna Cam Axis Cam Front Tie Rod Toe Sleeve	Fac Adj. 41-160[2] 41-216 41-2001	Non Adj.	- 74 75 79	41-2001	- / - 0.30 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Chrysler Aspen	**2007 - 2009**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -

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2. For models with either slotted or unslotted strut brackets.
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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chrysler Cirrus	1995 - 2000	X		- Ball Joint	Fac Adj. 41-230	41-230	- 76	88-1304 88-7800A	- / 0.90 0.90	-	Fac Adj.	Fac Adj.	-		- / -
Chrysler Concorde LH Yorker	1993 - 1997	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Chrysler Concorde	1998 - 2004	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Chrysler Crossfire	2004 - 2008	X		- Cam Bolt	Fac Adj. 41-8265	Fac Adj. 41-8265	- 83		- / - 0.40 / 0.40	-	Fac Adj.	Fac Adj.	-		- / -
Chrysler Dynasty (Canada)	1991 - 1993	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler E Class/Exe Sedan	1983 - 1984	X		- Cam Bolt Axis Cam	Fac Adj. 41-8249 41-214	Non Adj.	- 81 75		- / - 0.30 0.60	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Fifth Avenue	1983 - 1989	X		Camber Kit Camber Kit	41-157[2] 41-1570	Non Adj.	74 79		0.30 / - 0.30	Shim Shim	46-1000[1] 46-2100[1]		126 130		- -
Chrysler Fifth Avenue	1989	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Imperial	1981 - 1983	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Chrysler Imperial	1990 - 1993	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Laser	1984 - 1986	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler LeBaron/GTS	1982 - 1995	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler New Yorker , LHS	1994 - 1997	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Chrysler New Yorker/Ex/Fifth Ave	1983 - 1993	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Pacifica	2004 - 2008	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	- Bushing	Non Adj. 46-162	Fac Adj.	- 117		- / - 0.60
Pacifica (Incl. Hybrid)	2017 - 2020	X		Cam Bolt	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Chrysler PT Cruiser	2001 - 2010	X		- Magna Cam Axis Cam	Fac Adj. 41-157[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Sebring Coupe	1995 - 2000	X		Ball Joint	41-550	41-550	78	88-1304 88-7800A	0.90 / 0.90	Shim	46-2170	Fac Adj.	131		0.30 / -
Chrysler Sebring Convertible	1996 - 2010	X		Ball Joint Ball Joint	41-230 41-229	41-230 41-229	76 76	88-1304 88-7800A	0.90 / - 0.90 / 0.90	-	Fac Adj.	46-437	-		- / 0.30
Chrysler Sebring Sedan	1996 - 2005	X		Ball Joint	41-230	41-230	76	88-1304	0.90 / 0.90	-	Non Adj.	Fac Adj.	-	88-7800A	- / -
Chrysler Sebring Coupe	2001 - 2010	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Shim	46-2170	46-437	131		0.30 / 0.30
Chrysler Sebring Sedan & Conv	2007 - 2010	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	- Rear Arm	Non Adj. 46-2175	46-437	- 131		- / 0.30 0.60
Chrysler TC by Maserati	1990 - 1991	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Twn Country Wgn	1982 - 1988	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Town/CtryVan FWD	1990 - 1995	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Chrysler Town/CtryVan AWD	1992 - 1995		X	- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Chrysler Town/CtryVan FWD	1996 - 2016	X		- Magna Cam Axis Cam Cam Bolt	Fac Adj. 41-157[2] 41-214 41-8249	Non Adj.	- 74 75 81		- / - 0.30 0.30 0.30	Shim	46-1120[1]	46-1120[1]	126	88-343 88-4519	0.60 / 0.60

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MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Chrysler Town/CtryVan AWD	**1997 - 2014**		X	- Magna Cam Axis Cam Cam Bolt	Fac Adj. 41-157[2] 41-214 41-8249	Non Adj.	- 74 75 81		- / - 0.30 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Chrysler Voyager Van	**2000 - 2007**	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1120 SERIES[1]	46-1120[1]	126		0.60 / 0.60
DAEWOO															
Daewoo Lanos	**1999 - 2002**		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Daewoo Malteze	**1999 - 2002**		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Daewoo Leganza	**1999 - 2002**		X	Axis Cam	41-212	Non Adj.	75		0.30 / -	Axis Cam	41-212	Non Adj.	75		0.30 / -
Daewoo Nubira	**1999 - 2002**	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Axis Cam	41-212	Fac Adj.	75		0.30 / -
DAIHATSU															
Daihatsu Charade	**1988 - 1992**	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Fac Adj.	74 76 75		0.30 / - 0.30 0.30
Daihatsu Charade GTX	**1992**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Daihatsu Rocky	**1990 - 1992**		X	Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
DODGE															
Dodge 400	**1982 - 1983**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge 600	**1983 - 1988**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Aries	**1981 - 1989**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Avenger	**1995 - 2000**	X		Ball Joint	41-550	41-550	78	88-1304 88-7800A	0.90 / 0.90	Shim	46-2170	Fac Adj.	131		0.30 / -
Dodge Avenger	**2008 - 2010**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	- Rear Arm	Non Adj. 46-2175	Fac Adj.	- 131		- / - 0.60
Dodge Avenger	**2011 - 2014**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	- Rear Arm	Non Adj. 46-2176	46-437	- 131		- / 0.30 0.60
Dodge B100/200/300/350 2WD	**1979 - 1983**		X	- Cam Bolt	Fac Adj. 41-8243	Fac Adj. 41-8243	- 80		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Dodge Caliber	**2007 - 2012**	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	- Rear Arm	Non Adj. 46-2178	Fac Adj. 46-2174	- 132		- / - 0.60 / 0.60
Dodge Caravan Van FWD	**1984 - 1995**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Cavavan AWD	**1990 - 1995**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Caravan AWD	**1996 - 2014**		X	Magna Cam Axis Cam Cam Bolt	41-157[2] 41-214 41-8249	Non Adj.	74 75 81		0.30 / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Caravan Van FWD	**1996 - 2019**	X		Magna Cam Axis Cam Cam Bolt	41-157[2] 41-214 41-8249	Non Adj.	74 75 81		0.30 / - 0.30 0.30	Shim	46-1120[1]	46-1120[1]	126	88-343	0.60 / 0.60
Dodge Challenger	**1970 - 1974**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Challenger	**1980 - 1983**	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Challenger 2wd	**2008**	X		Ball Joint Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-232 41-8259 41-8321L 41-8321R	41-232 41-8259 41-8321L 41- 8321R	76 82 89 89		0.90 / 0.90 0.90 / 0.90 0.60 / 0.60 0.60 / 0.60	Bushing	46-162	Fac Adj.	117		0.60 / -
Dodge Challenger 2wd	**2009 - 2020**	X		Ball Joint Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-232 41-8259 41-8322L 41-8322R	41-232 41-8259 41-8322L 41- 8322R	76 82 89 89		0.90 / 0.90 0.90 / 0.90 0.60 / 0.60 0.60 / 0.60	Bushing	46-162	Fac Adj.	117		0.60 / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

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2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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8. For models without factory provided cam bolts
9. For truck models with rear camber

FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Dodge Challenger AWD	**2017 - 2020**	X		Cam Bolt	41-8260	41-8260	82		0.90 / 0.90	Bushing	46-162	Fac Adj.	117		0.60 / -
Dodge Charger	**1966 - 1972**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Charger	**1983 - 1987**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Charger AWD	**2006 - 2020**	X		Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-8260 41-8329L 41-8329R	41-8260	82 89 89		0.90 / 0.90 0.90 0.90	Bushing	46-162	Fac Adj.	117		0.60 / -
Dodge Charger 2WD	**2006 - 2008**	X		Ball Joint Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-232 41-8259 41-8321L 41-8321R	41-232 41-8259 41-8321L 41- 8321R	76 82 89 89		0.90 / 0.90 0.90 / 0.90 0.60 / 0.60 0.60 / 0.60	Bushing	46-162	Fac Adj.	117		0.60 / -
Dodge Charger 2WD	**2009 - 2020**	X		Ball Joint Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-232 41-8259 41-8322L 41-8322R	41-232 41-8259 41-8322L 41- 8322R	76 82 89 89		0.90 / 0.90 0.90 / 0.90 0.60 / 0.60 0.60 / 0.60	Bushing	46-162	Fac Adj.	117		0.60 / -
Dodge Colt / Vista	**1979 - 1995**		X	Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Colt Wagon 2WD/4WD	**1992 - 1995**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Dodge Conquest	**1984 - 1986**	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Dodge Coronet (incl. Super Bee)	**1966 - 1972**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge D300/D350/D400/D450 Truck	**1975 - 1987**	X		Camber Kit	41-8243	41-8243	80		0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Dodge Ram 50/D50/Arrow 2WD	**1980 - 1993**		X	-	Fac Adj.	CC	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Dakota 2WD/4WD	**1987 - 2004**		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Dakota 2WD/4WD	**2005 - 2011**		X	Greaseable Cam Bolt Cam Bolt	44-834 44-835	44-834 44-835	100 100		0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Dodge Dart	**1965 - 1976**		X	Cam Bolt	41-8243	41-8243	80		0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Dodge Dart	**2013 - 2016**	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Dodge Daytona	**1984 - 1993**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Durango 2WD/4WD	**1998 - 2009**		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Durango	**2011 - 2015**		X	- Ball Joint Camber Kit Control Arm W/BJ Control Arm W/BJ	Fac Adj. 44-2495 44-794 44-2720L 44-2720R	Fac Adj. 44-2495 44-795 44-2720L 44- 2720R	- 104 97 111 111		- / - 0.90 / 0.90 0.30 / 0.30 0.90 / 0.90 0.90 / 0.90	-	Non Adj.	Fac Adj.	-		- / -
Dodge Durango	**2016 - 2020**		X	- Camber Kit	Fac Adj. 44-794	Fac Adj. 44-795	- 97		- / - 0.30 / 0.30	-	Non Adj.	46-438	-		- / 0.30
Dodge Dynasty	**1988 - 1993**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Intrepid	**1993 - 1997**	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Dodge Intrepid	**1998 - 2004**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75	41-2001	- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Dodge Journey	**2009 - 2010**	X		Axis Cam Magna Cam	41-214 41-157[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2175	Fac Adj.	131		0.60 / -
Dodge Journey	**2011 - 2020**	X		Axis Cam Magna Cam	41-214 41-157[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2176	46-437	131		0.60 / 0.30

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

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2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Dodge Lancer	1985 - 1989	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Magnum 2WD	2005 - 2008	X		Ball Joint Cam Bolt Control Arm W/BJ Control Arm W/BJ	41-232 41-8259 41-8321L 41-8321R	41-232 41-8321L 41-8321R 41-8259	76 82 89 89		0.90 / 0.90 0.90 / 0.60 0.60 / 0.60 0.60 / 0.90	Bushing	46-162	Fac Adj.	117		0.60 / -
Dodge Magnum AWD	2005 - 2008	X		Cam Bolt	41-8260	41-8260	82		0.90 / 0.90	Bushing	46-162	Fac Adj.	117		0.60 / -
Dodge Monaco	1990 - 1992	X		Wedge Kit	41-305	Non Adj.	76		0.30 / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Neon	1995 - 2005	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Wedge Kit Axis Cam	41-300 41-212	Fac Adj.	76 75		0.30 / - 0.30
Dodge Nitro	2007 - 2012	X		Cam Bolt	41-8273	41-8273	84		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Omni/024	1978 - 1990	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Ram Raider 2WD	1987 - 1989		X	-	Fac Adj.	CC	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Full size P/U ind. front suspension 2WD	1994 - 2002		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge 1500/2500 L.D. 4WD	1994 - 1999		X	Ball Joint	44-2492	Fac Adj. 44-2492 41-8256	103	88-7900A	0.90 / - 0.90 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge 1500/2500 L.D. 4WD	2000 - 2001		X	Ball Joint	44-2494	Fac Adj. 44-2494	104	88-7900A	0.90 / - 0.90	-	Non Adj.	Non Adj.	-		- / -
Dodge 1500 2WD/4WD	2002 - 2005		X	Camber Kit Greaseable Cam Bolt	44-792 44-866	44-792 44-866	97 102	88-8928	0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Dodge Ram 1500 2WD/4WD (5-lug) (Exc. Mega Cab)	2006 - 2010		X	Ball Joint Cam Bolt	44-2489 44-868	44-2489 44-868	102 102		0.90 / 0.90 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Ram 1500 (Mega Cab) (8-lug) 2wd	2006 - 2008		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Ram 1500 (Mega Cab) (8-lug) 4wd	2006 - 2008		X	- Ball Joint	Non Adj. 44-2497	Fac Adj. 44-2497	- 104		- / - 0.90 / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Full Size Van 2WD	1995 - 2003		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500 HD/3500 solid frt axle 2WD	1994 - 2002		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500 HD /3500 4WD	1994 - 1999		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500 HD /3500 4WD	2000 - 2002		X	Ball Joint	44-2496	Fac Adj. 44-824	104		0.90 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Truck 2500/3500 2WD	2003 - 2010		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500/3500 P/U Old body style 4WD	2003		X	Ball Joint	44-2496	Fac Adj.	104		0.90 / -	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500/3500 P/U NS 4WD	2003 - 2010		X	Ball Joint	44-2497	Fac Adj. 44-824	104		0.90 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500 HD /3500 2wd/mono beam	2003 - 2010		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge Truck 2500/3500 2WD	2003 - 2010		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge 4500 / 5500	2008 - 2010		X	Ball Joint	44-2610	44-2610	108		1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Dodge Ramcharger 4WD	1974 - 1993		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Dodge Ramcharger 2WD	1977 - 1993		X	- Cam Bolt	Fac Adj. 41-8243	Fac Adj. 41-8243	- 80		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Dodge Rampage	1982 - 1984	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Shadow	1987 - 1994	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Dodge Spirit	1989 - 1995	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60

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MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Dodge Sprinter 2500/3500	2003 - 2006		X	Shim Shim	42-4431 42-4434	Non Adj.	88 88		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Sprinter 2500	2007 - 2009	X		Axis Cam Cam Bolt	41-214 41-8268	Non Adj.	75 84		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Sprinter 2WD 3500	2007 - 2009		X	Axis Cam Cam Bolt	41-214 41-8268	Non Adj.	75 84		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Stealth 4x2 & AWD	1991 - 1996	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Dodge Stratus Sedan	1995 - 2006	X		- Ball Joint	Fac Adj. 41-230	41-230	- 76	88-1304 88-7800A	- / 0.90 0.90	-	Fac Adj.	Fac Adj.	-		- / -
Dodge Stratus Coupe	1995 - 2000	X		Ball Joint	41-550	41-550	78	88-1304	0.90 / 0.90	Shim	46-2170	Fac Adj.	131		0.30 / -
Dodge Stratus Coupe	2001 - 2005	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Shim	46-2170	Fac Adj.	131		0.30 / -
Dodge Viper RT/10Roadster	1992 - 1995	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Dodge Viper Roadster/GTS Coupe	1996 - 2017	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Dodge W100 thruW350 with 3500lb axle 4WD	1972 - 1993		X							-	Non Adj.	Non Adj.	-		- / -
Dodge Full size P/U ind. front suspension 2WD	1972 - 1993		X	Cam Bolt	41-8243	41-8243	80		0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Dodge W200-W350 w/3500 lb. axle 4WD	1975 - 1993		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
EAGLE															
Eagle Medallion	1988 - 1989	X		Magna Cam Wedge Kit	41-160[2] 41-305	Non Adj.	74 76		0.30 / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Eagle Premier	1988 - 1992	X		Magna Cam Wedge Kit	41-160[2] 41-305	Non Adj.	74 76		0.30 / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Eagle Summit	1989 - 1992		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Eagle Summit	1993 - 1996	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Eagle Talon 2WD/4WD	1990 - 1994	X		Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Eagle Talon 2WD/4WD	1995 - 1998	X		Ball Joint	41-550	41-550	78	88-1304 88-7800A	0.90 / 0.90	Shim	46-2170	Fac Adj.	131		0.30 / -
Eagle Vision	1993 - 1997	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Eagle Vista Wagon 2WD/4WD	1989 - 1991		X	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
FIAT															
Fiat 124 Spider	2017 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Fiat 128 Coupe Hatch Wagon	1971 - 1979		X	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Fiat 131/Brava	1975 - 1981		X	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Fiat 500	2012 - 2017	X		Axis Cam	41-210	Non Adj.	75		0.30 / -	Shim Shim	46-7300 46-7300	46-7300 46-7300	143 142		0.60 / 0.60 0.60 / 0.60
Fiat 500	2012 - 2019	X		Magna Cam	41-210	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Fiat 500L	2014 - 2019	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	Shim Shim	46-7300 46-7300	46-7300 46-7300	143 142		0.60 / 0.60 0.60 / 0.60
Fiat 500x	2016 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Axis Cam	41-212		75		0.30
Fiat Strada	1979 - 1982	X		Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Fiat X1/9	1974 - 1982	X		Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30	Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30
FORD															

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

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3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Ford Aerostar 2WD/4WD	1986 - 1997		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113	88-7414	- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Ford Aspire	1994 - 1997	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Ford Bronco 4WD	1969 - 1979	X		Bushing	44-5000	44-5000	109		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Bronco 4WD	1980 - 1996		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Bronco II 2WD	1984 - 1988		X			44-9412			1.50	-	Non Adj.	Non Adj.	-		- / -
Ford Bronco II 4WD	1984 - 1989		X							-	Non Adj.	Non Adj.	-		- / -
Ford Bronco II 2WD	1989 - 1990		X	Bushing Bushing	42-950 44-5094	42-950 44-5094	87 112		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Bronco II 4WD	1990		X	Bushing Bushing	42-950 44-5094	42-950 44-5094	87 112		1.00 / 0.80 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford C-Max	2013 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	46-173	134		1.30 / 0.30
Ford Contour	1995 - 2000	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Ford Crown Victoria/LTD	1992 - 2002		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Crown Victoria	2003 - 2011		X	- Cam Bolt	Fac Adj. 46-143	Fac Adj.	- 117		- / - 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford E100/E150 2WD	1980 - 1991		X	-	Non Adj.	42-4413	-		- / 1.50	-	Non Adj.	Non Adj.	-		- / -
Ford E150, E250, E350, E450 2WD	1992 - 2020		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970 42-4392	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford E250/E350 2WD	1980 - 1991		X	-	Non Adj.	42-4412	-		- / 1.50	-	Non Adj.	Non Adj.	-		- / -
Ford Ecosport	2018 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Ford Edge	2007 - 2014	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Ford Edge	2015 - 2020	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	46-457	-		- / 0.30
Ford Escape FWD	2001 - 2012	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-308 41-212	Fac Adj.	74 77 75		- / - 0.30 0.30	- Rear Arm	Non Adj. 46-2179	46-137	- 132		- / 0.30 0.90
Ford Escape 4WD	2001 - 2012	X		Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	- Rear Arm	Non Adj. 46-2179	46-137	- 132		- / 0.30 -
Ford Escape FWD/AWD	2013 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2188	46-173	134		0.60 / 0.30
Ford Escort	1981 - 1985	X		-	Non Adj.	Non Adj.	-		- / -	Wedge Kit	46-201	Fac Adj.	120		0.40 / -
Ford Escort	1986 - 1990	X		Tower Plate	41-4601	41-4601	80	88-4602	0.50 / 0.50			Fac Adj.			-
Ford Escort	1991 - 1996	X		- Magna Cam Axis Cam Wedge Kit	Fac Adj. 41-146[2] 41-212 41-312	Non Adj.	- 74 75 76		- / - 0.30 0.30 0.30	Magna Cam Axis Cam Wedge Kit	41-147[3] 41-212 41-312	46-205	74 75 76		0.30 / 0.30 0.30 0.30
Ford Escort	1997 - 2002	X		- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj. 46-205	74 75		0.30 / - 0.30 / 0.30
Ford Escort ZX2	1998 - 2003	X		- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj. 46-205	74 75		0.30 / - 0.30 / 0.30
Ford Excursion 2WD	2000 - 2005		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Excursion 4WD	2000 - 2005		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford EXP	1982 - 1985	X		-	Non Adj.	Non Adj.	-		- / -	Wedge Kit	46-201	Fac Adj.	120		0.40 / -

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Ford EXP	1986 - 1988	X		Tower Plate	41-4601	41-4601	80	88-4602	0.50 / 0.50	Wedge Kit	46-201	Fac Adj.	120		0.40 / -
Ford Expedition 1sr design (cam only) 2WD/4WD	1997 - 1998		X	Camber Kit	42-777[6]	42-777[6]	86	88-7829	0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Expedition 2nd design (cam bolt) 2WD/4WD	1997 - 2002		X	Cam Bolt Cam Bolt Greaseable Cam Bolt	42-778[7] 42-778-4 42-781	42-778[7] 42-778-4 42-781	86 90 86		0.50 / 0.50 1.00 / 1.00 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Ford Expedition 2WD/4WD	2003 - 2006	X		Camber Kit	44-786[8]	44-786[8]	96		0.30 / 0.30	Cam Bolt	44-784	46-9813	96		0.50 / 0.50
Ford Expedition 2WD/4WD	2007 - 2017	X		Camber Kit Camber Kit	44-790 44-791	44-790 44-791	96 97		0.30 / 0.30 0.30 / 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Ford Expedition	2018 - 2020	X		Camber Kit Camber Kit	44-789 44-791	44-789 44-791	96 97		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Explorer 2WD/4WD	1991 - 1994		X	Bushing Bushing	42-950 44-5094	42-950 44-5094	87 112		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Explorer 2WD	1995 - 2001		X	Camber Kit Cam Bolt Greaseable Cam Bolt	44-767 44-768 44-836	44-767 44-836 44-768	94 94 100	88-7829	0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Explorer/Explorer Sport 4WD	1995 - 2001		X	Camber Kit Cam Bolt Greaseable Cam Bolt	44-767 44-768 44-836	44-767 44-768 44-836	94 94 100		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Explorer 2WD/4WD	2002	X		Alignment Washers Camber Kit	44-769 44-771[8]	44-769 44-771[8]	95 95	88-8926	0.30 / 0.30 0.30 / 0.30	Alignment Washers Camber Kit	44-769 44-773[8]	46-9812	95 95		0.30 / 0.50 0.30
Ford Explorer 2WD/4WD	2003 - 2005	X		Alignment Washers Camber Kit	44-769 44-771[8]	44-769 44-771[8]	95 95	88-8926	0.30 / 0.30 0.30 / 0.30	Alignment Washers Camber Kit	44-769 44-773[8]	46-9811	95 95		0.30 / 0.50 0.30
Ford Explorer 2WD/4WD	2006 - 2010	X		-	Fac Adj.	Fac Adj.	-	88-8926	- / -	-	Fac Adj.	Fac Adj.	-		- / -
Ford Explorer 2WD/4WD	2011 - 2019	X		- Axis Cam Magna Cam	Fac Adj. 41-216 41-159[2]	Non Adj.	- 75 74		- / - 0.30 0.30	- Axis Cam	Fac Adj. 46-1709	Fac Adj.	- 129		- / - 0.30
Ford Explorer	2020	X		Axis Cam	41-216	Non Adj.	75		0.03 / -	-	Fac Adj.	Fac Adj.	-		- / -
Ford Explorer Sport Trac 4WD	2001 - 2005		X	Camber Kit Cam Bolt Camber Kit Greaseable Cam Bolt	44-767 44-768 44-766 44-836	44-767 44-768 44-766 44-836	94 94 94 100		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford F-100 4WD	1966 - 1974	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford F150 4WD	1975 - 1979		X			44-9412		88-7090	1.50	-	Non Adj.	Non Adj.	-		- / -
Ford F150 4WD	1980 - 1996		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F100/F150 2WD	1982 - 1986		X			44-9412 42-4411			1.50 1.50	-	Non Adj.	Non Adj.	-		- / -
Ford F150 2WD	1987 - 1991		X	Bushing Bushing	42-950 44-5094	42-950 44-5094 44-9413	87 112		1.00 / 1.00 1.00 / 1.00 1.50	-	Non Adj.	Non Adj.	-		- / -
Ford F150 2WD	1992 - 1996		X	Bushing Bushing	42-950 44-5094	42-950 44-5094 44-9413 42-4391	87 112		1.00 / 1.00 1.00 / 1.00 1.50 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F150/F250 1st design (cam only) 2WD/4WD	1997 - 1998		X	Camber Kit	42-777[6]	42-777[6]	86		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford F150/F250 2nd design (cam bolt) 2WD/4WD	1997 - 2003		X	Cam Bolt Cam Bolt Greaseable Cam Bolt	42-778[7] 42-778-4 42-781	42-778[7] 42-778-4 42-781	86 90 86		0.50 / 0.50 1.00 / 1.00 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Ford F150 Supercrew 4WD	2001 - 2003		X	Cam Bolt Cam Bolt Greaseable Cam Bolt	42-778[7] 42-778-4 42-781	42-778[7] 42-778-4 42-781	86 90 86		0.50 / 0.50 1.00 / 1.00 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Ford F150 2WD	2004 - 2008		X	Camber Kit Camber Kit Greaseable Cam Bolt	44-789 44-791 44-864	44-789 44-791 44-864	96 97 101		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -

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Ford F150 4WD	2004 - 2008		X	Camber Kit Camber Kit Greaseable Cam Bolt	44-789 44-791 44-864	44-789 44-791 44-864	96 97 101		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford F150 2WD/4WD/SVT Raptor	2009 - 2020		X	Camber Kit Camber Kit	44-790 44-791	44-790 44-791	96 97		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford F250 (twin I- beam) 4WD	1980 - 1987		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford/ 250 F350 w/ball joint suspension 4WD	1980 - 1997		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford/ 250 4wd Twin I beam	1980 - 1997		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250/F350 2WD	1981 - 1986		X			42-4412			1.50	-	Non Adj.	Non Adj.	-		- / -
Ford Truck F250/F350 2WD	1987 - 1991		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250/F350 2WD	1992 - 1998		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250 LD 1st design (cam only) 4WD	1997 - 1998		X	Camber Kit	42-777[6]	42-777[6]	86		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford F250, F350, F450, F550 Super Duty (TIB) 2WD	1997 - 2020		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250, F350, F450, F550 Super Duty (MOB) 2WD	1999 - 2004		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250, F350, F450, F550 Super Duty (MOB) 2WD	1999 - 2004		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250, F350, F450, F550 Super Duty 4WD	1999 - 2004		X	Bushing Bushing	44-5000 44-5032	44-5000 44-5032	109 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250/F350 Super Duty (MOB) 2WD	2005 - 2020		X	Bushing Bushing	44-6000 44-5036	44-6000 44-5036	112 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F250 Super Duty 4WD	2005 - 2020		X	Bushing Bushing	44-6000 44-5036	44-6000 44-5036	112 111		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F350 w/Dana 60 4WD	1975 - 1991		X	Camber Kit	44-910	Non Adj.	102		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Ford F350 Super Duty 4WD	2005 - 2020		X	Bushing Bushing	44-6000 44-5036	44-6000 44-5036	112 111		1.00 / 0.50 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford F450/550 Super Duty 2WD/4WD	2005 - 2019		X	Bushing Bushing	44-6020 44-5037	44-6020 44-5037	113 112		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Fairmont	1978 - 1981		X	- Wedge Kit	Fac Adj. 41-310	Non Adj.	- 77	88-4511	- / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Falcon	1960 - 1965	X		-	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Festiva	1988 - 1993	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Ford Fiesta	1978 - 1980		X	- Magna Cam Wedge Kit	Fac Adj. 41-147[3] 41-300	Non Adj.	- 74 76		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Fiesta	2011 - 2019	X		Axis Cam -	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Five Hundred AWD	2005 - 2007	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Ford Five Hundred FWD	2005 - 2007	X		-	Fac Adj.	Fac Adj.	-		- / -	Camber Kit	46-135	Fac Adj.	116		0.75 / -
Ford Flex FWD/AWD	2009 - 2012	X		-	Fac Adj.	Non Adj.	-		- / -	- Axis Cam	Fac Adj. 46-1709	Non Adj.	- 129		- / - 0.30
Ford Flex FWD/AWD	2013 - 2020	X		Axis Cam	41-218	Non Adj.	75		0.30 / -	- Axis Cam	Fac Adj. 46-1709	46-2241	- 129		- / 0.30 0.30
Ford Focus (Incl. SVT)	2000 - 2011	X		Tower Plate	41-4611	Non Adj.	80	88-9416	0.60 / -	Shim Camber Kit Rear Arm	46-1700 SERIES 46-1705 46-2188	46-173	129 128 134		0.80 / 0.30 0.50 0.50
Ford Focus (Incl. ST/RS)	2012 - 2018	X		-	Non Adj.	Non Adj.	-	88-9416	- / -	Rear Arm	46-2188	46-173	134		0.60 / 0.30
Ford Freestar	2004 - 2007	X		- Tower Plate	Fac Adj. 41-4609	Fac Adj.	- 80		- / - 0.90	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Ford Freestyle FWD	**2005 - 2007**	X		-	Fac Adj.	Non Adj.	-		- / -	Camber Kit	46-135	Fac Adj.	116		0.75 / -
Ford Fusion	**2006 - 2012**	X		Ball Joint	41-236	41-236	76	88-1304	0.90 / 0.90	Rear Arm	46-2231	Fac Adj.	138		0.50 / -
Ford Fusion Incl. Hybrid	**2013 - 2019**	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2227	46-457	137		0.50 / 0.30
Ford Granada	**1975 - 1980**		X	Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Ford Granada	**1981 - 1982**		X	- Wedge Kit	Fac Adj. 41-310	Non Adj.	- 77	88-4511	- / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Crown Victoria/LTD	**1983 - 1986**		X	Axis Cam	41-216	Fac Adj.	75	88-4511	0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Ford Maverick	**1969 - 1977**	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	41-8243	Non Adj.	80		0.60 / -
Ford Mustang	**1979 - 1993**		X	- Wedge Kit Axis Cam	Fac Adj. 41-307 41-216	Non Adj.	- 77 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Mustang 5.0	**1990 - 1993**		X	-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Mustang	**1994 - 2004**	X		- Wedge Kit Axis Cam	Fac Adj. 41-307 41-216	Non Adj.	- 77 75	88-9414	- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Mustang Cobra	**1999 - 2004**	X		Axis Cam	41-216	Fac Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Ford Mustang	**2005 - 2014**	X		Wedge Kit Axis Cam	41-314 41-214	Fac Adj. 41-325 41-326	77 75		0.30 / - 0.30 / 0.50 0.50	-	Non Adj.	Non Adj.	-		- / -
Ford Mustang	**2015 - 2020**	X		Axis Cam	41-216	Fac Adj.	75		0.30 / -	Camber Kit	46-458	46-457	124		0.30 / 0.30
Ford Shelby GT350 Mustang	**2016 - 2018**	X		Axis Cam	41-216	Fac Adj.	75		0.30 / -	Camber Kit	46-458	46-457	124		0.30 / 0.30
Ford Probe	**1989 - 1997**	X		- Magna Cam Wedge Kit	Fac Adj. 41-146[2] 41-300	Fac Adj.	- 74 76		- / - 0.30 0.30	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30
Ford Ranchero	**1964 - 1965**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Ranchero	**1966 - 1971**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Ranger 2WD	**1983 - 1988**		X			44-9412			1.50	-	Non Adj.	Non Adj.	-		- / -
Ford Ranger 4WD	**1983 - 1989**		X							-	Non Adj.	Non Adj.	-		- / -
Ford Ranger 2WD	**1989 - 1991**		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Ranger 4WD	**1990 - 1991**		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Ranger 2WD/4WD	**1992 - 1997**		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-4391 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00	-	Non Adj.	Non Adj.	-		- / -
Ford Ranger 2WD/4WD	**1998 - 2012**		X	Camber Kit Cam Bolt Camber Kit Greaseable Cam Bolt	44-767 44-768 44-766 44-836	44-767 44-768 44-766 44-836	94 94 94 100		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Taurus Sedan	**1986 - 1990**	X		- Tower Plate	Fac Adj. 41-4603	Fac Adj. 41-4603	- 80	88-4520 88-9416	- / - 0.50 / 0.50	Bushing Cam Bolt	46-131 46-132	Fac Adj. 46-131 46-132	115 116	88-1302 88-9200	0.50 / - 0.40 / 0.50 0.40
Ford Taurus Wagon	**1986 - 1990**	X		- Tower Plate	Fac Adj. 41-4603	Fac Adj. 41-4603	- 80	88-4520 88-9416	- / - 0.50 / 0.50	Cam Bolt	46-136	Fac Adj.	116	88-1300 88-4511	0.80 / -
Ford Taurus Sedan	**1991 - 1995**	X		- Tower Plate	Fac Adj. 41-4605	Fac Adj. 41-4605	- 80	88-4520 88-9416	- / - 0.50 / 0.50	Bushing Cam Bolt	46-131 46-132	Fac Adj. 46-131 46-132	115 116	88-1302 88-9200	0.50 / - 0.40 / 0.50 0.40
Ford Taurus Wagon	**1991 - 1995**	X		- Tower Plate	Fac Adj. 41-4605	Fac Adj. 41-4605	- 80	88-4520 88-9416	- / - 0.50 / 0.50	Cam Bolt	46-136	Fac Adj.	116	88-1300 88-4511	0.80 / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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					FRONT WHEEL ALIGNMENT					REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Ford Taurus Sedan	**1996 - 2007**	X		- Tower Plate	Fac Adj. 41-4607	Fac Adj.	- 80	88-7870C 88-9416	- / - 0.90	Cam Bolt Bushing	46-134 46-131	46-134 46-131	116 115		0.50 / 0.50 0.50 / 0.50
Ford Taurus Wagon	**1996 - 2007**	X		- Tower Plate	Fac Adj. 41-4607	Fac Adj.	- 80	88-9416	- / - 0.90	Cam Bolt	46-136	Fac Adj.	116		0.80 / -
Ford Taurus FWD	**2008 - 2009**	X		-	Fac Adj.	Fac Adj.	-		- / -	Camber Kit	46-135	Fac Adj.	116		0.75 / -
Ford Taurus Sedan	**2010 - 2018**	X		-	Fac Adj.	Fac Adj.	-		- / -	- Axis Cam	Fac Adj. 46-1709	46-2241	- 129		- / 0.30 0.30
Ford Taurus Sedan	**2013 - 2019**	X		Axis Cam	41-218	Fac Adj.	75		0.30 / -	- Axis Cam	Fac Adj. 46-1709	Fac Adj.	- 129		- / - 0.30
Ford Taurus X AWD	**2008 - 2009**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Taurus X FWD	**2008 - 2009**	X		-	Fac Adj.	Fac Adj.	-		- / -	Camber Kit	46-135	Fac Adj.	116		0.75 / -
Ford Tempo	**1984 - 1994**	X		Tower Plate	41-4601	41-4601	80	88-4602	0.50 / 0.50	Wedge Kit	46-201		120		0.40
Ford Tempo	**1985 - 1994**	X		Tower Plate	41-4601	41-4601	80	88-4602	0.50 / 0.50	Wedge Kit	46-201	Fac Adj.	120	88-9200	0.40 / -
Ford Tempo AWD	**1987 - 1992**	X		Tower Plate	41-4601	41-4601	80	88-4602	0.50 / 0.50	Wedge Kit	46-201	Fac Adj.	120		0.40 / -
Ford Thunderbird	**1964 - 1966**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Thunderbird	**1980 - 1988**		X	- Wedge Kit Axis Cam	Fac Adj. 41-310 41-216	Non Adj.	- 77 75	88-4511	- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Ford Thunderbird	**1989 - 1997**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Ford Thunderbird	**2002 - 2005**	X		- Cam Bolt	Fac Adj. 41-8244	Fac Adj. 41-8244	- 80		- / - 0.70 / 0.70	-	Non Adj.	Fac Adj.	-		- / -
Ford Torino	**1968 - 1971**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Transit	**2015 - 2018**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Transit Connect	**2010 - 2013**	X		Tower Plate	41-4611	Non Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Transit Connect	**2014 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ford Windstar	**1995 - 2003**	X		- Tower Plate	Fac Adj. 41-4609	Fac Adj.	- 80	88-4520 88-9416	- / - 0.90	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
FREIGHTLINER															
Freightliner Sprinter 2WD	**2002 - 2006**		X	Shim Shim	42-4431 42-4434	Non Adj.	88 88		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Freightliner 2500	**2007 - 2018**	X		Axis Cam Cam Bolt	41-214 41-8268	Non Adj.	75 84		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Freightliner 3500	**2007 - 2018**	X		Axis Cam Cam Bolt	41-214 41-8268	Non Adj.	75 84		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
GENESIS															
Genesis G70	**2019 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Genesis G80	**2017 - 2020**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Genesis G90	**2017 - 2020**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
GEO															
Geo Metro	**1989 - 1997**	X		Magna Cam Axis Cam Wedge Kit	41-147[3] 41-212 41-312	Non Adj.	74 75 76		0.30 / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Geo Prizm	**1989 - 1992**	X		Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Geo Prizm	**1993 - 1997**	X		Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam Shim	41-149 41-215 46-1300 SERIES[1]	Fac Adj. 46-1300 SERIES[1]	74 75 127		0.30 / - 0.30 / 0.60 0.60

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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Geo Spectrum	**1989**	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.50 / 0.60 0.50 / 0.60
Geo Storm	**1990 - 1993**	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Fac Adj.	74 76 75		0.30 / - 0.30 0.30
Geo Tracker 2WD/4WD	**1989 - 1997**		X	Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
GMC															
GMC Acadia 2WD/4WD	**2007 - 2016**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	- Cam Bolt Camber Kit	Fac Adj. 41-8257 46-421	Fac Adj.	- 82 120	88-7996A	- / - 0.30 1.00
GMC Acadia	**2017 - 2020**	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
GMC Acadia Limited	**2017**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
GMC Suburban 2WD	**1972 - 1982**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC C10/C20/C30/C1500	**1966 - 1974**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
GMC C Series P/U 2WD	**1979 - 1986**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC C Series PU 2WD	**1988 - 1991**		X	Cam Bolt Greaseable Cam Bolt	41-8250[5] 41-8272	41-8250[5] 41-8272	81 84		0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC C Series P/U 2WD	**1992 - 1999**		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 41.00 / 41.00	-	Non Adj.	Non Adj.	-		- / -
GMC Suburban 2WD	**1983 - 1986**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC 2WD Topkick C4500 C550	**2005 - 2009**		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
GMC 4WD Topkick C4500 C5500	**2005 - 2009**		X	Bushing Bushing	44-6020 44-5037	44-6020 44-5037	113 112		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
GMC 2WD Canyon	**2004 - 2012**		X	- Quick Cam Replacement Pins Cam Bolt Greaseable Cam Bolt	Fac Adj. 44-2507 44-2508 41-8251 41-8262	Fac Adj. 44-2507 44-2508 41-8251 41-8262	- 105 106 81 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC 4WD Canyon	**2004 - 2012**		X	- Quick Cam Replacement Pins Cam Bolt Greaseable Cam Bolt	Fac Adj. 44-2507 44-2508 41-8251 41-8262	Fac Adj. 44-2507 44-2508 41-8251 41-8262	- 105 106 81 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC Canyon	**2015 - 2020**		X	- Greaseable Cam Bolt Cam Bolt Replacement Pins	Fac Adj. 44-831 44-832 44-2512	Fac Adj. 44-831 44-832 44-2512	- 99 100 107		- / - 0.50 / 0.50 0.50 / 0.50 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
GMC Envoy 2WD/4WD	**2002**		X	- Cam Bolt	Fac Adj. 41-8246	Fac Adj. 41-8246	- 81		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC 2WD/4WD Envoy	**2003 - 2009**		X	Camber-Caster Tool	88-8929	88-8929	156	88-8929	- / -	-	Non Adj.	Non Adj.	-		- / -
GMC G Series Van 2WD	**1979 - 1995**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC Jimmy (Full Size) 4WD	**1970 - 1991**		X							-	Non Adj.	Non Adj.	-		- / -
GMC Jimmy (full size) 2WD	**1974 - 1978**		X	- Shim	Fac Adj. cc	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC K Series P/U 4WD (Except Dana 60)	**1970 - 1986**		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
GMC Suburban 4WD	**1970 - 1991**		X					88-7090		-	Non Adj.	Non Adj.	-		- / -

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
GMC K Series P/U 4WD	1988 - 2000		X	Cam Bolt Greaseable Cam Bolt	41-8250[5] 41-8272	41-8250[5] 41-8272	81 84	88-7491	0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC V Series P/U 4WD	1987 - 1991		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
GMC K Series P/U (rear drum brakes) 4WD	1992 - 1999		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC R Series 2WD	1987 - 1991		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC S15 P/U (downsize) 4WD	1982		X	- Cam Bolt	Fac Adj. 41-8247	Fac Adj. 41-8247	- 81		- / - 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
GMC S15 P/U/Sonoma (downsize) 4WD	1983 - 1990		X	- Cam Bolt	Fac Adj. 41-8246	Fac Adj. 41-8246	- 81		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC S15/T15 Jimmy, Syclone, Typhoon 4WD	1983 - 1993		X	- Cam Bolt	Fac Adj. 41-8246	Fac Adj. 41-8246	- 81		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC S15 Jimmy, Typhoon 2WD	1983 - 1993		X	- Shim	Fac Adj. cc	Fac Adj. cc	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC Safari 2WD	1985 - 2005		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
GMC Safari 4WD	1990 - 2005		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC Savana 2WD	1996 - 2002		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC 4WD Savana Van	2003 - 2020		X	- Quick Cam Replacement Pins Cam Bolt Bushing Control Arm W/BJ Ball Joint Greaseable Cam Bolt	Fac Adj. 44-2506 44-2508 41-8251 44-2509[5] 44-2725 44-2499 41-8262	Fac Adj. 44-2506 44-2508 41-8251 44-2509[5] 44-2725 44-2499 41-8262	- 105 106 81 106 108 105 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.80 / 0.80 0.80 / 0.80 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC 2WD Savana Van	2003 - 2020		X	- Quick Cam Replacement Pins Cam Bolt Bushing Control Arm W/BJ Ball Joint Greaseable Cam Bolt	Fac Adj. 44-2506 44-2508 41-8251 44-2509[5] 44-2725 44-2499 41-8262	Fac Adj. 44-2506 44-2508 41-8251 44-2509[5] 44-2725 44-2499 41-8262	- 105 106 81 106 108 105 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.80 / 0.80 0.80 / 0.80 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC 2WD Savana Van	2003 - 2020		X	- Quick Cam Replacement Pins Cam Bolt Greaseable Cam Bolt	Fac Adj. 44-2506 44-2508 41-8251 41-8262	Fac Adj. 44-2506 44-2508 41-8251 41-8262	- 105 106 81 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC 4WD Savana Van	2003 - 2020		X	- Quick Cam Replacement Pins Cam Bolt Greaseable Cam Bolt	Fac Adj. 44-2506 44-2508 41-8251 41-8262	Fac Adj. 44-2506 44-2508 41-8251 44-2509[5] 41-8262	- 105 106 81 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.50 / 0.80 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC Sierra HD 1500/2500/3500 2WD/4WD	2007 - 2010		X	- Bushing Replacement Pins Quick Cam Cam Bolt Ball Joint Greaseable Cam Bolt	Fac Adj. 44-2510 44-2508 44-2506 41-8251 44-2498 41-8262	Fac Adj. 44-2510 44-2508 44-2506 41-8251 44-2498 41-8262	- 106 106 105 81 105 83	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

				FRONT WHEEL ALIGNMENT					REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
GMC Sierra 1500 2WD/4WD	1999 - 2006		X	- Bushing Quick Cam Cam Bolt Replacement Pins Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2499 44-2725 41-8262	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2499 44-2725 41-8262	- 106 105 81 106 105 108 83	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.90 / 0.90 0.80 / 0.80 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC Sierra 1500 2WD/4WD	2007 - 2013		X	- Bushing Quick Cam Cam Bolt Replacement Pins Control Arm W/BJ Greaseable Cam Bolt Control Arm W/BJ	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2726L 41-8262 44-2726R	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2726L 41-8262 44- 2726R	- 106 105 81 106 112 83 112	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.60 / 0.60 0.50 / 0.50 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC Sierra 1500 2WD/4WD (Steel Arm)	2014 - 2018		X	- Bushing Quick Cam Cam Bolt Replacement Pins Control Arm W/BJ Greaseable Cam Bolt Control Arm W/BJ	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2726L 41-8262 44-2726R	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2726L 41-8262 44- 2726R	- 106 105 81 106 112 83 112	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.60 / 0.60 0.50 / 0.50 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC Sierra 1500 2WD/4WD (Aluminum Arm)	2014 - 2018		X	- Bushing Quick Cam Cam Bolt Replacement Pins Control Arm W/BJ Greaseable Cam Bolt Control Arm W/BJ	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2728L 41-8262 44-2728R	Fac Adj. 44-2509[5] 44-2506 41-8251 44-2508 44-2728L 41-8262 44- 2728R	- 106 105 81 106 112 83 112	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.60 / 0.60 0.50 / 0.50 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC Sierra HD 1500/2500/3500 2WD/4WD	1999 - 2010		X	- Bushing Cam Bolt Cam Bolt Replacement Pins Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2510 41-8251 44-2506 44-2508 44-2498 44-2730 41-8262	Fac Adj. 44-2510 41-8251 44-2508 44-2506 44-2498 44-2730 41-8262	- 106 81 105 106 105 110 83		- / - 0.08 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.90 / 0.90 0.90 / 0.90 0.50 / 0.50						
GMC Sierra HD 2500/3500 2WD/4WD	2011 - 2020		X	- Greaseable Cam Bolt Camber Kit Replacement Pins Control Arm W/BJ	Fac Adj. 44-831 44-832 44-2512 44-2727	Fac Adj. 44-831 44-832 44-2727 44-2512	- 99 100 107 109		- / - 0.50 / 0.50 0.50 / 0.50 0.30 / 0.90 0.90 / 0.30	-	Non Adj.	Non Adj.	-		- / -
GMC Terrain	2010 - 2017	X		Magna Cam Axis Cam	41-158[2] 41-214		74 75		0.30 0.30	Cam Nut	44-775	44-775	95		0.30 / 0.30
GMC Terrain	2018 - 2020	X		Cam Bolt	41-212	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
GMC 4 WD Truck Yukon/Denali (rear drum brake)	1992 - 2000		X	- Cam Bolt Greaseable Cam Bolt	Fac Adj. 41-8250[5] 41-8272	Fac Adj. 41-8250[5] 41-8272	- 81 84	88-7491	- / - 0.60 / 0.60 41.00 / 41.00	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

				FRONT WHEEL ALIGNMENT						REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
GMC Yukon/Denali 2WD/4WD	1999 - 2006		X	- Bushing Replacement Pins Cam Bolt Quick Cam Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2509[5] 44-2508 41-8251 44-2506 44-2499 44-2725 41-8262	Fac Adj. 44-2509[5] 44-2508 41-8251 44-2506 44-2725 44-2499 41-8262	- 106 106 81 105 105 108 83	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.90 / 0.80 0.80 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
GMC Yukon/Denali 2WD/4WD	2007 - 2018		X	- Bushing Replacement Pins Cam Bolt Quick Cam Greaseable Cam Bolt Control Arm W/BJ Control Arm W/BJ Control Arm W/BJ Control Arm W/BJ	Fac Adj. 44-2509[5] 44-2508 41-8251 44-2506 41-8262 44-2726L 44-2726R 44-2728L 44-2728R	Fac Adj. 44-2509[5] 44-2508 41-8251 44-2506 41-8262 44-2726L 44-2726R 44-2728L 44-2728R	- 106 106 81 105 83 112 112 112 112	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.50 / 0.50 0.60 / 0.60 0.60 / 0.60 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC Yukon XL 1500 2WD/4WD	2000 - 2020		X	- Bushing Cam Bolt Quick Cam Replacement Pins Greaseable Cam Bolt Control Arm W/BJ Control Arm W/BJ	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44-2726R	Fac Adj. 44-2509[5] 41-8251 44-2506 44-2508 41-8262 44-2726L 44-2726R	- 106 81 105 106 83 112 112	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.60 / 0.60 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
GMC Yukon XL 2500HD 2WD/4WD	2000 - 2013		X	- Bushing Replacement Pins Cam Bolt Quick Cam Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2510 44-2508 41-8251 44-2506 44-2498 44-2730 41-8262	Fac Adj. 44-2510 44-2508 41-8251 44-2506 44-2498 44-2730 41-8262	- 106 106 81 105 105 110 83	88-7950A	- / - 0.80 / 0.80 0.30 / 0.30 0.50 / 0.50 0.30 / 0.30 0.90 / 0.90 0.90 / 0.90 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
HONDA															
Honda Accord	1986 - 1989	X		Ball Joint	Fac Adj.	Fac Adj.	-		- / -	Shim	46-2160	Fac Adj.	130		0.20 / -
Honda Accord	1990 - 1997	X		Control Arm W/BJ Ball Joint	41-545 41-530	41-530	79 78	88-7800A	0.50 / 0.90 0.90	Shim	46-2160	Fac Adj.	130		0.20 / -
Honda Accord	1998 - 2002	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	Rear Arm Rear Arm	46-2190 46-2181	Fac Adj.	135 133		0.70 / - 0.50
Honda Accord	2003 - 2007	X		Ball Joint	41-532	41-532	78	88-1304 88-7890A	0.90 / 0.90	Rear Arm Rear Arm	46-2195 46-2192	46-2195 46-2237	136 135		0.70 / 0.70 0.50 / 0.70
Honda Accord	2008 - 2012	X		Ball Joint	41-532	41-532	78	88-1304 88-7890A	0.90 / 0.90	Rear Arm	46-2184	Fac Adj. 46-2183 46-2234	133		0.30 / - 0.30 0.30
Honda Accord	2013 - 2017	X		-	Fac Adj.	Fac Adj.	-	88-7890A	- / -	Rear Arm	46-2184	Fac Adj. 46-2183 46-2234	133		0.30 / - 0.30 0.30
Honda Accord	2018 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	46-174	-		- / 0.30
Honda Accord Crosstour	2010 - 2015	X		Ball Joint	41-532	41-532	78	88-1304 88-7890A	0.90 / 0.90	Rear Arm	46-2184	Fac Adj. 46-2183 46-2234	133		0.30 / - 0.30 0.30
Honda Civic	1980 - 1990	X		- Control Arm W/BJ	Non Adj. 41-545	Non Adj.	- 79		- / - 0.50	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60
Honda Civic Wagon	1984 - 1987	X		-	Non Adj.	Non Adj.	-		- / -	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

FRONT WHEEL ALIGNMENT / REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Honda CRX	1984 - 1987	X		-	Non Adj.	Non Adj.	-		- / -	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60
Honda Civic	1992 - 2000	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	Shim Rear Arm	46-2160 46-2182	Fac Adj.	130 133		0.20 / - 0.70
Honda Civic	2001 - 2002	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2180	Fac Adj.	132		0.50 / -
Honda Civic SI	2002 - 2005	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2180	Fac Adj.	132		0.50 / -
Honda Civic Hybrid	2003 - 2005	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2180	Fac Adj.	132		0.50 / -
Honda Civic	2003 - 2005	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2180	Fac Adj.	132		0.50 / -
Honda Civic / Civic Hybrid / Except SI	2006 - 2015	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2187	46-434	134		0.50 / 0.30
Honda Civic SI	2012 - 2015	X		Axis Cam Magna Cam	41-216 41-160[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2187	Fac Adj.	134		0.50 / -
Honda Civic (Except Si and Type R)	2016 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2238	46-174	140		0.50 / 0.30
Honda Civic del Sol	1993 - 1997	X		Control Arm W/BJ Ball Joint	41-545 41-532	41-532	79 78	88-1304 88-7800A	0.50 / 0.90 0.90	Shim Rear Arm	46-2160 46-2182	Fac Adj.	130 133		0.20 / - 0.70
Honda Clarity	2017 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Honda CR-V 4x2 and 4x4	1997 - 2001	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	Shim Rear Arm	46-2160 46-2182	Fac Adj.	130 133		0.20 / - 0.70
Honda CR-V	2002 - 2006	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2185	Fac Adj.	134		0.50 / -
Honda CR-V 2WD/4WD/Touring	2007 - 2016	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2186	46-434	134		0.60 / 0.30
Honda CR-V 2WD/4WD/Touring	2017 - 2020	X		-	Fac Adj.	Non Adj.	-		- / -	Rear Arm	46-2238	46-174	140		0.60 / 0.30
Honda CR-Z	2011 - 2016	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Honda CRX	1988 - 1991	X		Control Arm W/BJ Ball Joint	41-545 41-532	41-532	79 78	88-1304 88-7800A	0.50 / 0.90 0.90	Shim Rear Arm	46-2160 46-2182	Fac Adj.	130 133		0.20 / - 0.70
Honda Element	2003 - 2011	X		Magna Cam Axis Cam	41-159[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2185	Non Adj.	134		0.50 / -
Honda Fit	2006 - 2008	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Honda Fit	2009 - 2014	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Honda Fit (EV)	2013 - 2014	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2187	46-434	134		0.50 / 0.30
Honda Fit	2015 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Honda HR-V	2016 - 2020	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Honda Insight	2001 - 2006	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Honda Insight	2010 - 2014	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Honda Insight	2019 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2238	46-174	140		0.30 / -
Honda Odyssey	1995 - 1998	X		Control Arm W/BJ Ball Joint	41-545 41-530	41-530	79 78	88-7800A	0.50 / 0.90 0.90	-	Non Adj.	Fac Adj.	-		- / -
Honda Odyssey	1999 - 2004	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Rear Arm	46-2192	46-439	135		0.50 / 0.50
Honda Odyssey	2005 - 2020	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Rear Arm	46-2191	Fac Adj.	135		0.60 / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Honda Odyssey (Touring)	**2005 - 2020**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Rear Arm	46-2194	Fac Adj.	136		- / -
Honda Passport 2WD/4WD	**1994 - 2002**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Honda Pilot	**2003 - 2008**	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2192	46-439	135		0.50 / 0.50
Honda Pilot	**2009 - 2015**	X		Axis Cam	41-218	Non Adj.	75		0.30 / -	Rear Arm	46-2196	46-451	136		0.50 / 0.30
Honda Pilot	**2016 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	46-452	-		- / 0.30
Honda Prelude	**1979 - 1982**	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Honda Prelude	**1983 - 1987**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Honda Prelude 2 W/S	**1988 - 1991**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Honda Prelude 4 W/S	**1988 - 1991**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Honda Prelude 2 W/S	**1992 - 1996**	X		Control Arm W/BJ Ball Joint	41-545 41-530	41-530	79 78		0.50 / 0.90 0.90	-	Non Adj.	Fac Adj.	-		- / -
Honda Prelude 4 W/S	**1992 - 1995**	X		Ball Joint	41-530	41-530	78	88-7800A	0.90 / 0.90	-	Fac Adj.	Fac Adj.	-	88-7800A	- / -
Honda Prelude except SH	**1997 - 2001**	X		Ball Joint	41-532	41-532	78	88-1304 88-7800A	0.90 / 0.90	-	Fac Adj.	Fac Adj.	-	88-7800A	- / -
Honda Prelude SH	**1997 - 2001**	X		Ball Joint	41-530	41-530	78	88-1304 88-7800A	0.90 / 0.90	-	Fac Adj.	Fac Adj.	-	88-7800A	- / -
Honda 4WD RidgeLine	**2006 - 2014**	X		Axis Cam	41-218	Non Adj.	75		0.30 / -	Rear Arm	46-2240	Fac Adj.	-		0.30 / -
Honda RidgeLine	**2017 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	46-452	-		- / 0.30
Honda S2000/SH	**2000 - 2009**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
HUMMER															
Hummer H1	**2002 - 2006**		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Hummer H2	**2003 - 2009**		X	- Bushing Cam Bolt Replacement Pins Quick Cam Ball Joint Control Arm W/BJ Greaseable Cam Bolt	Fac Adj. 44-2510 41-8251 44-2508 44-2506 44-2498 44-2730 41-8262	Fac Adj. 44-2510 41-8251 44-2498 44-2730 41-8262 44-2506	- 106 81 106 105 105 110 83	88-7950A	- / - 0.80 / 0.80 0.50 / 0.50 0.30 / 0.90 0.30 / 0.90 0.90 / 0.50 0.90 / 0.30 0.50	-	Non Adj.	Non Adj.	-		- / -
Hummer H3	**2006 - 2010**		X	- Quick Cam Replacement Pins Cam Bolt Greaseable Cam Bolt	Fac Adj. 44-2507 44-2508 41-8251 41-8262	Fac Adj. 44-2507 44-2508 41-8251 41-8262	- 105 106 81 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Hummer H3T	**2009 - 2010**		X	- Quick Cam Replacement Pins Cam Bolt Greaseable Cam Bolt	Fac Adj. 44-2507 44-2508 41-8251 41-8262	Fac Adj. 44-2507 44-2508 41-8251 41-8262	- 105 106 81 83		- / - 0.30 / 0.30 0.30 / 0.30 0.50 / 0.50 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
HYUNDAI															
Hyundai Accent	**1995 - 2005**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Hyundai Accent	**2006 - 2011**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Hyundai Accent	**2012 - 2017**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Hyundai Accent	2018 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Azera (to 10/31/2006)	2006	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Azera	2007 - 2011	X		Ball Joint	41-550	41-550	78	88-1304	0.90 / 0.90	-	Fac Adj.	Fac Adj.	-		- / -
Hyundai Azera (Includes Limited)	2012 - 2017	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Hyundai Elantra	1992 - 1996	X		Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Hyundai Elantra	1997 - 2006	X		Magna Cam Magna Cam Axis Cam	41-146[2] 41-147[3] 41-212	Non Adj.	74 74 75		0.30 / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Hyundai Elantra	2007 - 2010	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2189	46-2189	135		0.50 / 0.50
Hyundai Elantra Touring	2011 - 2012	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2189	46-2189	135		0.50 / 0.50
Hyundai Elantra	2011 - 2020	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Hyundai Elantra GT / multi-Link rear susp	2013	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2189	46-2189	135		0.50 / 0.50
Hyundai Elantra Coupe W/Beam Rear Susp	2013	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30						
Hyundai Entourage	2007 - 2009		X	Axis Cam Magna Cam	41-212 41-147[3]		75 74		0.30 0.30	Cam Bolt	46-1707		129		0.30
Hyundai Equus	2011 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Equus	2014 - 2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Excel	1986 - 1994		X	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Hyundai Genesis Sedan	2009 - 2014	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Hyundai Genesis Sedan	2015 - 2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Hyundia Genesis Coupe	2010 - 2016	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Hyundai Genesis Sedan	2010 - 2016	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Hyundai Ioniq	2017 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Kona	2018 - 2020	X		Cam Bolt	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Pony	1983 - 1987	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Santa Fe AWD	2001 - 2006	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	- Cam Bolt	Fac Adj. 46-166	Fac Adj. 46-166	- 118		- / - 0.30 / 0.30
Hyundai Santa Fe AWD	2007 - 2012	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Hyundai Santa Fe AWD/FWD	2013 - 2014	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Hyundai Santa Fe AWD/FWD Sport	2013 - 2014	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Hyundai Santa Fe AWD/FWD	2015 - 2020	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Cam Bolt	46-169	46-171	118		0.30 / 0.30
Hyundai Santa Fe AWD/FWD Sport	2015 - 2020	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Cam Bolt	46-169	46-171	118		0.30 / 0.30
Hyundai Scoupe	1991 - 1995		X	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Hyundai Sonata	1989 - 1994		X	Magna Cam Wedge Kit	41-147[3] 41-305	Non Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Hyundai Sonata	1995 - 1998	X		Magna Cam Wedge Kit	41-147[3] 41-305	Non Adj.	74 76		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -

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Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

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2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Hyundai Sonata	1999 - 2010	X		Ball Joint	41-550	41-550	78	88-1304 88-7800A	0.90 / 0.90	-	Non Adj.	Fac Adj.	-		- / -
Hyundai Sonata (built after 5-2011)	2011 - 2019	X		Axis Cam Magna Cam	41-216 41-160[2]	Non Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Hyundai Sonata (built before 5-2011)	2011	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Hyundai Sonata Hybrid	2011 - 2015	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	Cam Bolt	46-169	Non Adj.	118		0.30 / -
Hyundai Stellar	1985 - 1988	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Tiburon	1997 - 2001	X		Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Hyundai Tiburon	2003 - 2008	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Hyundai Tuscon 4x4/4x2	2005 - 2009	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Axis Cam Magna Cam	41-214 41-158[2]	Fac Adj.	75 74		0.30 / - 0.30
Hyundai Tuscon FWD	2010 - 2015	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Hyundai Tuscon AWD	2010 - 2015	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Hyundai Tucson AWD & FWD	2016 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Cam Bolt	46-169	Non Adj.	118		0.30 / -
Hyundai Veloster	2012 - 2014	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Shim	46-1500 SERIES[1]	46-1500 SERIES[1]	127		0.60 / 0.60
Hyundai Veloster	2012 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai Veracruz	2007 - 2012	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Hyundai XG300/XG350	2001 - 2005	X		Ball Joint	41-550	41-550	78	88-1304	0.90 / 0.90	-	Non Adj.	Fac Adj.	-		- / -
INFINITI															
Infiniti EX35	2008 - 2012	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti EX37	2013	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti FX35/FX45	2004 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti G20	1991 - 1996	X		-	Non Adj.	Non Adj.	-		- / -	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Infiniti G20	1999 - 2002		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Infiniti G25	2011 - 2012	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2228	46-2228	137		0.50 / 0.50
Infiniti G35 Coupe/Sedan	2003 - 2007	X		-	Non Adj.	Non Adj.	-		- / -	- Cam Bolt Rear Arm	Non Adj. 46-164 46-2199	Non Adj. 46-164 46-2199	- 118 136		- / - 0.30 / 0.30 0.50 / 0.50
Infiniti G35 Sedan	2007 - 2008	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm / Cam bolt	46-2228	Fac Adj. 46-141	137		0.30 / - 0.30
Infiniti G37 (except hardtop convertible)	2008 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm / Cam bolt	46-2228	46-141 46-2228	137		0.50 / 0.30 0.50
Infiniti I30	1996 - 2001		X	Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Infiniti I35	2002 - 2004		X	Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Infiniti J30	1993 - 1996	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti JX35	2013	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti M30	1990 - 1992	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Infiniti M35/M45	2006 - 2010	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm / Cam bolt	46-2228	46-2228	137		0.30 / 0.30
Infiniti M35h	2012 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2199	46-2199	136		0.50 / 0.50

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FRONT WHEEL ALIGNMENT / REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Infiniti M37	2011 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2199	46-2199	136		0.50 / 0.50
Infiniti M45	2003 - 2004	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti M56	2011 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm / Cam bolt	46-2199	46-2199	136		0.50 / 0.50
Infiniti Q40	2015	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2228	46-2228	137		0.50 / 0.50
Infiniti Q45	1990 - 2006	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti Q50 Sedan	2014 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2199	46-2199	136		0.50 / 0.50
Infiniti Q60 Convertible	2014 - 2015	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti Q60	2017 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm / Cam bolt	46-2199	Fac Adj.	136		0.50 / -
Infiniti Q70	2014 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm / Cam bolt	46-2199	46-2199	136		0.50 / 0.50
Infiniti QX30	2017 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Infiniti QX4	1997 - 2003		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Infiniti QX50	2014 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Infiniti QX56	2004 - 2013	X		Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Infiniti QX60	2014 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Infiniti QX70	2014 - 2017	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Infiniti QX80	2014 - 2020	X		Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
INTERNATIONAL															
International Pickup 150, 200, 100, 1110, 1210	1972 - 1975	X						88-7090		-	Non Adj.	Non Adj.	-		- / -
International Scout	1961 - 1971	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
International Scout 11	1973 - 1980	X						88-7090		-	Non Adj.	Non Adj.	-		- / -
ISUZU															
Isuzu Amigo 2WD/4WD	1989 - 2000		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Ascender 2WD/4WD	2003 - 2008		X	Camber-Caster Tool	88-8929	88-8929	156		- / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Axiom 2WD	2002 - 2004		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Axiom 4WD	2002 - 2004		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Hombre 2WD	1996 - 2000		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Hombre 4WD	1996 - 2000		X	- Cam Bolt	Fac Adj. 41-8246	Fac Adj. 41-8246	- 81		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Isuzu I35/I28 4WD	2006		X	- Quick Cam	Fac Adj. 44-2507	Fac Adj. 44-2507	- 105		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Isuzu i-290	2007 - 2008	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Isuzui-370	2007 - 2008	X		Quick Cam	44-2507	44-2507	105		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Isuzu I-Mark FWD	1985 - 1989	X		Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Isuzu Impulse	1983 - 1989	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Impulse	1990 - 1992		X	Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30

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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Isuzu Oasis	1996 - 1999	X		Ball Joint	41-530	41-530	78	88-1304	0.90 / 0.90	Shim	46-2160	Fac Adj.	130		0.20 / -
Isuzu Pickup 2WD/4WD	1981 - 1995		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Rodeo 2WD/4WD	1991 - 2004		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Stylus	1991 - 1993	X		Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30
Isuzu Trooper II 4WD	1988 - 2002		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu Trooper 4WD	1992 - 2002		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Isuzu VehiCross	1999 - 2001		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
JAGUAR															
Jaguar E-Pace	2018 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Jaguar F-Type	2014 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Jaguar S Type	2000 - 2008	X		- Cam Bolt	Fac Adj. 41-8244	Fac Adj. 41-8244	- 80		- / - 0.70 / -	-	Non Adj.	Fac Adj.	-		- / -
Jaguar X Type	2002 - 2008	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Jaguar XE	2016 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Jaguar XJ (351)	2010 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Jaguar XJ Sedans	1995 - 1997	X		- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Fac Adj.	Fac Adj.	-		- / -
Jaguar XJ6/XJ Sedan	1983 - 1994	X		- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Fac Adj.	Non Adj.	-		- / -
Jaguar XJR Sedan	1998 - 2002	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Jaguar XJS	1983 - 1996	X		- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Fac Adj.	Non Adj.	-		- / -
Jaguar XK8/XKR	1997 - 2014	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
JEEP															
Jeep Cherokee (full size)	1974 - 1983		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Jeep Cherokee, Wagoneer (downsize)	1984 - 1989		X	Ball Joint Shim	44-2490 44-240 SERIES	Fac Adj. 44-2490	103 98	88-7900A	0.90 / - 0.30 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Cherokee, Wagoneer (downsize)	1990 - 2001		X	Ball Joint	44-2490	Fac Adj. 44-2490 44-240 SERIES	103	88-7900A	0.90 / - 0.90 0.30	-	Non Adj.	Non Adj.	-		- / -
Jeep Cherokee	2014 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	46-453	46-454	123		0.30 / 0.30
Jeep CJ Models	1977 - 1986		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Jeep Comanche	1986 - 1989		X	Ball Joint	44-2490	Fac Adj. 44-2490	103	88-7900A	0.90 / - 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Comanche	1990 - 1992		X	Ball Joint	44-2490	Fac Adj. 44-2490	103	88-7900A	0.90 / - 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Commander	2006 - 2010	X		- Ball Joint	Fac Adj. 44-2493	44-2493	- 103		- / 0.90 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Commando	1966 - 1973	X								-	Non Adj.	Non Adj.	-		- / -
Jeep Compass	2007 - 2020		X	Axis Cam Magna Cam	41-214 41-158[2]	Fac Adj.	75 74		0.30 / - 0.30	- Rear Arm	Non Adj. 46-2178	Non Adj. 46-2174	- 132		- / - 0.60 / 0.60
Jeep Compass	2011 - 2017	X		Axis Cam	41-214		75		0.30			46-437			0.30
Jeep Gladiator	2020		X	Bushing	44-6030	41-8258	117		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Jeep Grand Cherokee	1993 - 1998		X	Ball Joint	44-2490	41-8256 44-2490	103	88-7900A	0.90 / 0.30 0.90	-	Non Adj.	Non Adj.	-		- / -

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Jeep Grand Chreokee	**1999 - 2004**		X	Ball Joint	44-2491	Fac Adj. 44-2491	103	88-7900A	0.90 / - 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Grand Cherokee (Non SRT8)	**2005 - 2010**	X		- Ball Joint	Fac Adj. 44-2493	44-2493	- 103		- / 0.90 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Grand Cherokee	**2011 - 2015**		X	Ball Joint Control Arm W/BJ Control Arm W/BJ Camber Kit	44-2495 44-2720L 44-2720R 44-794	44-2495 44-2720L 44- 2720R 44-795	104 111 111 97		0.50 / 0.50 0.50 / 0.50 0.50 / 0.50 0.50 / 0.50	Cam Bolt	46-438	Non Adj.	122		0.30 / -
Jeep Grand Cherokee	**2016 - 2020**	X		Cam Bolt	44-794	44-795	97		0.30 / 0.30	Cam Bolt	46-438	46-437	122		0.30 / 0.30
Jeep Grand Wagoneer (SJ)	**1984 - 1991**	X								-	Non Adj.	Non Adj.	-		- / -
Jeep J10/J20 Pickup	**1977 - 1988**		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Jeep Jeepster	**1966 - 1973**	X								-	Non Adj.	Non Adj.	-		- / -
Jeep Liberty 2WD/4WD (KJ)	**2002 - 2007**		X	Cam Bolt	41-8273	41-8273	84		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Jeep Liberty 2WD/4WD (KK)	**2008 - 2013**		X	Cam Bolt	41-8273	41-8273	84		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Jeep Patriot	**2007 - 2017**		X	Axis Cam Magna Cam	41-214 41-158[2]	Fac Adj.	75 74		0.30 / - 0.30	- Rear Arm	Non Adj. 46-2178	46-2174	- 132		- / 0.60 0.60
Jeep Renegade (BU)	**2015 - 2020**	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Axis Cam	41-212	Non Adj.	75		0.30 / -
Jeep Scrambler	**1982 - 1985**		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Wagoneer (XJ) 4WD/ RWD	**1984 - 1990**	X		Ball Joint	44-2491	44-2491	103		0.90 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Wrangler	**1987 - 1988**		X	Ball Joint	44-2490	44-2490	103	88-7900A	0.90 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Wrangler TJ	**1997 - 2006**		X	Ball Joint	44-2490	41-8256 44-2490	103	88-7900A	0.90 / 0.30 0.90	Cam Bolt	41-8255	Non Adj.	82		0.60 / -
Jeep Wrangler JK	**2007 - 2018**		X	Ball Joint Front Tie Rod Toe Sleeve	44-2490 44-2535	41-8257 44-2490	103 107	44-2535	0.90 / 0.30 0.30 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Jeep Wrangler JL	**2018 - 2020**		X	Bushing	44-6030	41-8258	117		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Jeep Wrangler JL	**2018 - 2020**		X	Bushing Bushing	44-6032 44-6034	41-8258	113 113		0.30 / 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
KIA															
Kia Amanti	**2004 - 2009**	X		Ball Joint	41-550	41-550	78	88-1304	0.90 / 0.90	-	Non Adj.	Fac Adj.	-		- / -
Kia Borrego	**2009 - 2011**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Kia Cadenza	**2014 - 2019**	X		-	Fac Adj.	Fac Adj.	-		- / -	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Kia Forte	**2010 - 2020**	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	46-2400[1]	46-2400[1]	130		0.60 / 0.60
Kia K900	**2015**	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Kia K900	**2016 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Kia Niro	**2017 - 2020**	X		Cam Bolt	41-214	Fac Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Kia Optima	**2001 - 2006**		X	Ball Joint	41-550	41-550	78	88-1304 88-7800A	0.90 / 0.90	-	Non Adj.	Fac Adj.	-		- / -
Kia Optima	**2007 - 2010**		X	Axis Cam Magna Cam	41-214 41-158[2]		75 74	88-7800A	0.30 0.30	Rear Arm	46-2189	46-2189	135		0.50 / 0.50
Kia Optima	**2009 - 2010**		X	Axis Cam Magna Cam	41-214 41-158[2]		75 74	88-7800A	0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Kia Optima (Built date before 7/1/2011)	**2011 - 2012**	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Kia Optima Hybrid	**2011 - 2020**	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -

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Kia Optima (Built date after 7/1/2011)	**2012 - 2020**	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Kia Rio	**2001 - 2011**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1300 SERIES[1] 46-2400[1]	46-1300 SERIES[1] 46-2400[1]	127 130		0.60 / 0.60 0.60 / 0.60
Kia Rio	**2012 - 2020**	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Kia Rondo	**2007 - 2010**	X		Axis Cam Magna Cam	41-214 41-157[2]		75 74		0.30 0.30	Rear Arm	46-2189	46-2189	135		0.50 / 0.50
Kia Sedona	**2002 - 2005**		X	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Kia Sedona	**2006 - 2014**		X	- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	Cam Bolt	46-1707	Non Adj.	129		0.30 / -
Kia Sedona	**2015 - 2020**	X		- Magna Cam Axis Cam	Fac Adj. 41-159[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Cam Bolt Cam Bolt	46-1707 46-169	46-169	129 118		0.30 / 0.30 0.30
Kia Sephia	**1994 - 2001**	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Kia Sorenta 2WD/4WD	**2003 - 2009**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Kia Sorento 2WD/4WD	**2011 - 2013**	X		- Axis Cam Magna Cam	Fac Adj. 41-214 41-158[2]	Fac Adj.	- 75 74		- / - 0.30 0.30	Cam Bolt	46-169	46-169	118		0.30 / 0.30
Kia Sorento 2WD/4WD	**2014 - 2015**	X		- Axis Cam Magna Cam	Fac Adj. 41-214 41-158[2]	Fac Adj.	- 75 74		- / - 0.30 0.30	Cam Bolt	46-169	Fac Adj.	118		0.30 / -
Kia Sorento 2WD/4WD	**2016 - 2020**	X		- Axis Cam Magna Cam	Fac Adj. 41-216 41-159[2]	Fac Adj.	- 75 74		- / - 0.30 0.30	Cam Bolt	46-169	46-171	118		0.30 / 0.30
Kia Soul	**2010 - 2020**	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	- Shim	Non Adj. 46-1500 SERIES[1]	Non Adj. 46-1500 SERIES[1]	- 127		- / - 0.60 / 0.60
Kia Spectra	**2000 - 2009**	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Kia Sportage	**1995 - 2002**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Kia Sportage 2WD/4WD	**2005 - 2010**		X	Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30
Kia Sportage 2WD	**2011 - 2020**	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Cam Bolt	46-169	Non Adj.	118		0.30 / -
Kia Sportage AWD	**2011 - 2016**	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Non Adj.	-		- / -
Kia Sportage AWD	**2017 - 2020**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Cam Bolt	46-169	Non Adj.	118		0.30 / -
Kia Stinger	**2018 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
LADA															
Lada Canada All 4WDRWD	**1983 - 1993**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
LADA Canada All FWD Models	**1983 - 1993**		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
LAND ROVER															
Land Rover Defender/Discovery	**1993 - 2004**		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Land Rover Discovery Sport	**2015 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Land Rover Freelander	**2002 - 2006**	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-158[2] 41-214	Fac Adj.	74 75		0.30 / - 0.30
Land Rover LR2	**2008 - 2015**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -

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Land Rover LR3	2005 - 2009	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Land Rover LR4	2010 - 2016	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Land Rover Range Rover	1987 - 2002		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Land Rover Range Rover	2003 - 2013	X		-	41-216	Fac Adj.	75		- / -	-	Non Adj.	Fac Adj.	-		- / -
Land Rover Range Rover	2013 - 2020	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Land Rover Range Rover Evoque	2012 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Land Rover Range Rover Sport	2006 - 2013	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Land Rover Range Rover Sport	2014 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Non Adj.	-		- / -
LEXUS															
Lexus CT	2011 - 2017	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	Shim	46-1500[1]	46-1500[1] 46-171	127		- / - 0.30
Lexus CT	2011 - 2017	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	Shim	46-1500[1]	46-1500[1] 46-171	127		- / - 0.30
Lexus ES 250	1990 - 1991	X		Magna Cam Axis Cam	41-160[2] 41-216	Fac Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-160[2] 41-216	Fac Adj.	74 75		0.30 / - 0.30
Lexus ES 300	1992 - 2003	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Lexus ES 330	2004 - 2006	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Lexus ES 350	2007 - 2012	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Lexus ES 350	2013 - 2020	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-151 41-217	Fac Adj.	74 75		0.30 / - 0.30
Lexus GS300	1993 - 1997	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus GS300/GS400	1998 - 2006	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus GS300/350/430	2006 - 2011	X		-	Fac Adj.	Non Adj.	-		- / -	Rear Arm	46-2226	Fac Adj.	137		0.50 / -
Lexus GS 350	2013 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2232	Fac Adj.	138		0.50 / -
Lexus GS 430	2001 - 2007	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus GS 350	2007 - 2011	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2226	Fac Adj.	137		0.50 / -
Lexus GX 460	2010 - 2020		X	- Greaseable Cam Bolt	Fac Adj. 44-828	Fac Adj. 44-828	- 99		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Lexus GX 470	2003 - 2009		X	- Greaseable Cam Bolt	Fac Adj. 44-827	Fac Adj. 44-827	- 99		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Lexus HS250h	2010 - 2012	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	-	Non Adj.	46-171	-		- / 0.30
Lexus IS F	2008 - 2014	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2226	Fac Adj.	137		0.50 / -
Lexus 200t	2016 - 2017	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2232	Fac Adj.	138		0.50 / -
Lexus IS250	2006 - 2013	X		-	Fac Adj.	Non Adj.	-		- / -	Rear Arm	46-2226	Fac Adj.	137		0.50 / -
Lexus IS 250C	2010 - 2015	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2226	Fac Adj.	137		0.50 / -
Lexus IS250	2014 - 2015	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2232	Non Adj.	138		0.50 / -
Lexus IS 300	2001 - 2005	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus IS 300 (AWD only)	2016 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2232	Fac Adj.	138		0.50 / -
Lexus IS 300 (AWD/RWD)	2018 - 2019	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2232	Fac Adj.	138		0.50 / -

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Lexus IS350	2006 - 2013	X		-	Fac Adj.	Fac Adj.	-		- / -	Rear Arm	46-2226	Fac Adj.	137		0.50 / -
Lexus IS350C	2010 - 2015	X		-	Fac Adj.	Fac Adj.	-		- / -	-	46-2226	Fac Adj.	137		0.50 / -
Lexus IS350	2014 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2232	Fac Adj.	138		0.50 / -
Lexus LC500	2018 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus LS	1990 - 2000	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus LS400	1995 - 2000	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus LS 430	2001 - 2006	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus LS	2001 - 2006	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus LS 460 RWD/AWD	2007 - 2017	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Lexus LS500	2018 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Lexus LX450	1996 - 1997		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Lexus LX470	1998 - 2007		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Lexus LX570	2008 - 2020	X		Greaseable Cam Bolt	44-838	Non Adj.	101		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Lexus NX	2015 - 2020	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	Rear Arm Rear Arm	46-2236L 46-2236R	46-171	140 140		0.30 / 0.30 0.30
Lexus RC350	2015 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2232	Fac Adj.	138		- / -
Lexus RX 350 2WD/4WD	1999 - 2009	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Lexus RX 350 2WD/4WD	2010 - 2020	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Lexus SC 300/SC 400	1992 - 2000	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lexus SC 430	2002 - 2010	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
LINCOLN															
Lincoln Aviator	2003 - 2005	X		Alignment Washers Camber Kit	44-769 44-771[8]	44-769 44-771[8]	95 95	88-8926	0.30 / 0.30 0.30 / -	Alignment Washers Camber Kit	44-769 44-773[8]	46-9811	95 95		0.30 / 0.50 0.30
Lincoln Aviator	2020	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Lincoln Blackwood P/U 2WD/4WD	2002 - 2003		X	Cam Bolt Cam Bolt Greaseable Cam Bolt	42-778[7] 42-778-4 42-781	42-778[7] 42-778-4 42-781	86 90 86		0.50 / 0.50 1.00 / 1.00 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Lincoln Continental	1982 - 1987		X	- Wedge Kit Axis Cam	Fac Adj. 41-310 41-216	Non Adj.	- 77 75	88-4511	- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Lincoln Continental	1988 - 1994	X		-	Fac Adj.	Fac Adj.	-	88-4520	- / -	Bushing Camber Kit	46-131 46-132	Fac Adj. 46-131 46-132	115 116	88-1302	0.50 / - 0.40 / 0.50 0.40
Lincoln Continental	1995 - 2002	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-	88-9066	- / -
Lincoln Continental	2017 - 2020	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Lincoln LS	2000 - 2006	X		- Cam Bolt	Fac Adj. 41-8244	Fac Adj. 41-8244	- 80		- / - 0.70 / -	-	Non Adj.	Fac Adj.	-		- / -
Lincoln Mark LT 2WD	2006 - 2008		X	Camber Kit Camber Kit Greaseable Cam Bolt	44-789 44-791 44-864	44-789 44-791 44-864	96 97 101		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Lincoln Mark LT 4WD	2006 - 2008		X	Camber Kit Camber Kit Greaseable Cam Bolt	44-789 44-791 44-864	44-789 44-791 44-864	96 97 101		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

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					FRONT WHEEL ALIGNMENT						REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Lincoln Mark VII	**1984 - 1992**		X	- Wedge Kit	Fac Adj. 41-310	Non Adj.	- 77	88-4511	- / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Lincoln Mark VIII	**1993 - 1998**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Lincoln MKC	**2015 - 2019**	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	Fac Adj.	134		0.30 / -
Lincoln MKS	**2009 - 2012**	X		-	Fac Adj.	Non Adj.	-		- / -	- Axis Cam	Fac Adj. 46-1709	46-2241	- 129		- / 0.50 0.30
Lincoln MKS	**2013 - 2016**	X		- Axis Cam	Fac Adj. 41-218	Non Adj.	- 75		- / - 0.30	- Axis Cam	Fac Adj. 46-1709	Fac Adj.	- 129		- / - 0.30
Lincoln MKT	**2010 - 2012**	X		-	Fac Adj.	Non Adj.	-		- / -	- Axis Cam	Fac Adj. 46-1709		- 129		- 0.30
Lincoln MKT	**2013 - 2019**	X		- Axis Cam	Fac Adj. 41-218	Non Adj.	- 75		- / - 0.30	- Axis Cam	Fac Adj. 46-1709	46-2241	- 129		- / 0.30 0.30
Lincoln MKX	**2007 - 2017**	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Lincoln MKX	**2016 - 2018**	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	46-457	-		- / 0.30
Lincoln Zephyr MKZ	**2006 - 2012**	X		Ball Joint	41-236	41-236	76	88-1304	0.90 / 0.90	Rear Arm	46-2231	Fac Adj.	138		0.50 / -
Lincoln Zephyr MKZ	**2013 - 2019**	X		Axis Cam Magna Cam	41-216 41-159[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2227	Fac Adj.	137		0.50 / -
Lincoln Nautilus	**2019 - 2020**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Fac Adj.	46-457	-		- / 0.30
Lincoln Navigator 1st design 2WD/4WD	**1998**		X	Camber Kit	42-777[6]	42-777[6]	86		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Lincoln Navigator 2nd design 2WD/4WD	**1998 - 2002**		X	Cam Bolt Cam Bolt Greaseable Cam Bolt	42-778[7] 42-778-4 42-781	42-778[7] 42-778-4 42-781	86 90 86		0.50 / 0.50 1.00 / 1.00 0.50 / 0.50	-	Non Adj.	Non Adj.	-		- / -
Lincoln Navigator 2WD/4WD	**2003 - 2006**	X		Camber Kit	44-786[8]	44-786[8]	96		0.30 / 0.30	Cam Bolt	44-784	46-9813	96		0.50 / 0.50
Lincoln Navigator 2WD/4WD	**2007 - 2017**	X		Camber Kit Camber Kit	44-790 44-791	44-790 44-791	96 97		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Lincoln Navigator 2WD/4WD	**2018 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Lincoln Town Car	**1981 - 1990**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Lincoln Town Car	**1991 - 2002**		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Lincoln Town Car	**2003 - 2011**		X	- Cam Bolt	Fac Adj. 46-143	Fac Adj.	- 117		- / - 1.00	-	Fac Adj.	Fac Adj.	-		- / -
Lincoln Versailles	**1977 - 1980**		X	Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
MAZDA															
Mazda 2	**2011 - 2014**	X		Axis Cam	41-212		75		0.30						
Mazda 3	**2004 - 2013**	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	46-168	134		1.70 / 0.30
Mazda 3 S, i	**2010 - 2014**	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	46-168	134		1.70 / 0.50
Mazda 3	**2014 - 2018**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	46-168	-		- / 0.30
Mazda 323/Protege 2WD/4WD	**1986 - 1995**	X		- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mazda 5	**2006 - 2017**	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	46-168	134		1.00 / 0.30
Mazda 6	**2003 - 2008**	X		Ball Joint	41-236	41-236	76	88-1304	0.90 / 0.90	- Rear Arm	Non Adj. 46-2231	Non Adj.	- 138		- / - 0.50
Mazda 6	**2009 - 2013**	X		-	Non Adj.	Non Adj.	-		- / -	- Rear Arm	Non Adj. 46-2231	Non Adj.	- 138		- / - 0.50
Mazda 6	**2014 - 2019**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Mazda 626	**1979 - 1982**		X	- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -

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Mazda 626	**1983 - 2002**	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mazda 626 4WD	**1988 - 1989**	X		- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mazda 929	**1988 - 1991**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Mazda 929	**1992 - 1995**	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mazda B Series P/U 2WD	**1972 - 1993**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Mazda B Series P/U 4WD	**1972 - 1993**		X	- Shim	Fac Adj. 45-351	Fac Adj. 45-351	- 114		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Mazda B Series P/U 2WD/4WD	**1994 - 1997**		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Mazda B Series P/U 2WD/4WD	**1998 - 2009**		X	Camber Kit Camber Kit Greaseable Cam Bolt	44-767 44-768 44-836	44-767 44-768 44-836	94 94 100		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Mazda CX-3	**2016 - 2019**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Mazda CX-5	**2013 - 2020**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Mazda CX-7	**2007 - 2012**	X		- Axis Cam	Fac Adj. 41-214	Fac Adj.	- 75		- / - 0.30	-	Non Adj.	46-168	-		- / 0.50
Mazda CX-9	**2007 - 2015**	X		Axis Cam Magna Cam	41-214 41-157[2]		75 74		0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Mazda CX-9	**2016 - 2020**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Mazda GLC	**1977 - 1983**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Mazda GLC	**1981 - 1985**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mazda MX-5 Miata (NA/NB)	**1990 - 2005**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mazda Millenia	**1995 - 2002**	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mazda MPV 2WD	**1989 - 2006**		X	- Magna Cam Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-147[3] 41-212	Fac Adj.	- 74 74 75		- / - 0.30 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Mazda MPV 4WD	**1989 - 2006**		X	- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Fac Adj. 41-147[3]	- 74 75		- / - 0.30 / 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Mazda MPV	**2000 - 2006**		X	- Magna Cam Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-147[3] 41-212	Fac Adj.	- 74 74 75		- / - 0.30 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Mazda MX-3	**1992 - 1996**	X		- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mazda MX-5 Miata (ND)	**2016 - 2019**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mazda MX-5 Miata	**2006 - 2015**	X		Greaseable Cam Bolt	41-8267-2	41-8267-2	88		0.70 / 0.70	-	Fac Adj.	Fac Adj.	-		- / -
Mazda MX-6	**1988 - 1997**	X		- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mazda Navajo 2WD	**1991 - 1994**		X	Bushing Bushing Bushing	42-950 44-5094 42-970	42-950 44-5094 42-970	87 112 88		1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Mazda Navajo 4WD	**1991 - 1994**		X	Bushing Bushing	42-950 44-5094	42-950 44-5094	87 112		1.00 / 1.00 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -

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Mazda Protege	**1990 - 2003**	X		- Magna Cam Axis Cam Wedge Kit Performance Kit	Fac Adj. 41-146[2] 41-212 41-300 41-1460	Fac Adj.	- 74 75 76 79		- / - 0.30 0.30 0.30 -	Magna Cam Axis Cam Wedge Kit	41-147[3] 41-212 41-300	Fac Adj.	74 75 76		0.30 / - 0.30 0.30
Mazda Protege5	**2002 - 2003**	X		Axis Cam	41-212	Fac Adj.	75		0.30 / -	Axis Cam	41-212	Fac Adj.	75		0.30 / -
Mazda RX7	**1979 - 1985**		X	- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Mazda RX7	**1986 - 1991**	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Mazda RX7	**1993 - 1995**	X		- Magna Cam Axis Cam	Fac Adj. 41-146[2] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Mazda RX-8	**2004 - 2011**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mazda Tribute AWD/FWD	**2001 - 2011**	X		Magna Cam Axis Cam Wedge Kit	41-147[3] 41-212 41-308	Fac Adj.	74 75 77		0.30 / - 0.30 0.30	Rear Arm	46-2179	Fac Adj.	132		- / -
MERCEDES-BENZ															
Mercedes-Benz B-Class (W245)	**2006 - 2011**	X		Axis Cam	41-214	Fac Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Mercedes-Benz B-Class (W246)	**2013 - 2019**	X		Axis Cam	41-214	Fac Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Mercedes-Benz C-Class W202 / S202 (RWD/AWD)	**1994 - 2000**	X		Cam Bolt	41-8265	41-8265	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz C-Class W203 4Matic (AWD)	**2001 - 2007**	X		Cam Bolt Axis Cam	41-8264 41-214	41-8264	83 75		0.40 / 0.40 0.30	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz C-Class W203 (RWD)	**2001 - 2007**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz C-Class W204 4Matic (AWD)	**2008 - 2018**	X		Cam Bolt Axis Cam	41-8264 41-214	41-8264	83 75		0.40 / 0.40 0.30	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz C-Class W204 (RWD)	**2008 - 2020**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CL-Class W203 (AWD/RWD)	**2008 - 2013**	X		Ball Joint	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CL-Class C215 (RWD)	**2000 - 2006**	X		Cam Bolt	41-8265	41-8265	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CL-Class C216	**2007 - 2014**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CLK-Class (C208/A208)	**1997 - 2003**	X		Cam Bolt	41-8265	41-8265	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CLK-Class C208	**1998 - 2002**	X		Cam Bolt	41-8265	41-8265	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CLK-Class C209/A209 (RWD)	**2003 - 2009**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CLK-Class W208 Cabriolet RWD	**2003**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
CLK, SL (W208/C208 W209/C209)	**1998 - 2013**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CLS-Class W219	**2006 - 2011**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz CLS-Class W218	**2011 - 2018**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz E-Class (W212) (AWD/RWD)	**2010 - 2018**	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz E-Class S212 / W212	**2010 - 2014**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz E-Class W211	**2003 - 2009**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz E-Class S211	**2003 - 2009**	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz E-Class Sedan 4MATIC , Wagon 4MATIC (W212/S212)	**2010 - 2018**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -

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Mercedes-Benz GLK-Class X204	2010 - 2016	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz Metris (W447)	2016 - 2019	X		Cam Bolt	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz S-Class W220	2000 - 2006	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz S-Class W221	2007 - 2013	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz SL-Class R230	2003 - 2012	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz SL-Class R231 (Caster only)	2013 - 2020	X		Cam Bolt	Non Adj.	41-8264	-		- / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz SLK-Class R170 (RWD)	1997 - 2004	X		Cam Bolt	41-8265	41-8265	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz SLK-Class R172	2012 - 2016	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz SLK-Class R171	2005 - 2011	X		Cam Bolt	41-8264	41-8264	83		0.40 / 0.40	-	Non Adj.	Fac Adj.	-		- / -
Mercedes-Benz Sprinter	2004 - 2006		X	Shim	42-4431	Non Adj.	88		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Mercedes-Benz Sprinter 2500	2010 - 2020	X		Axis Cam Cam Bolt	41-214 41-8268	Non Adj.	75 84		0.30 / - 0.30	-	Non Adj.		-		-
Mercedes-Benz Sprinter 3500	2010 - 2020	X		Axis Cam Cam Bolt	41-214 41-8268	Non Adj.	75 84		0.30 / - 0.30	-	Non Adj.		-		-
MERCURY															
Mercury Capri	1980 - 1986		X	- Wedge Kit	Fac Adj. 41-310	Non Adj.	- 77		- / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mercury Capri	1991 - 1994	X		- Magna Cam Wedge Kit	Fac Adj. 41-147[3] 41-300	Fac Adj.	- 74 76		- / - 0.30 0.30	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj. 46-205	74 76		0.30 / - 0.30 / 0.30
Mercury Comet	1960 - 1963	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Comet	1964 - 1965	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Comet	1966 - 1977	X		Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Cougar	1967 - 1973	X		Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Cougar	1974 - 1979	X		Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Cougar	1980 - 1988		X	- Wedge Kit Axis Cam	Fac Adj. 41-310 41-216	Non Adj.	- 77 75	88-4511	- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Mercury Cougar	1989 - 1997	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mercury Cougar	1999 - 2002	X		-	Non Adj.	Non Adj.	-	88-9416	- / -	-	Non Adj.	Fac Adj.	-		- / -
Mercury Cyclone RWD	1964 - 1965	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Cyclone	1966 - 1971	X		Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Grand Marquis	1991 - 2002		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Grand Marquis	2003 - 2011		X	- Cam Bolt	Fac Adj. 46-143	Fac Adj.	- 117		- / - 1.00	-	Non Adj.	Non Adj.	-		- / -
Mercury LN7	1982 - 1983	X		-	Non Adj.	Non Adj.	-		- / -	Wedge Kit Axis Cam	46-201 41-212	Fac Adj.	120 75		0.40 / - 0.30
Mercury Lynx	1981 - 1985	X		-	Non Adj.	Non Adj.	-		- / -	Wedge Kit Axis Cam	46-201 41-212	Fac Adj.	120 75		0.40 / - 0.30
Mercury Lynx	1986 - 1987	X		Tower Plate	41-4601	41-4601	80	88-4602	0.50 / 0.50	Wedge Kit	46-201	Fac Adj.	120		0.40 / -
Mercury Marauder	2003 - 2004		X	- Cam Bolt	Fac Adj. 46-143	Fac Adj.	- 117		- / - 1.00	-	Non Adj.	Non Adj.	-		- / -
Mercury Mariner AWD/FWD	2005 - 2011	X		Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2179	46-137	132		- / 0.30
Mercury Marquis	1983 - 1986		X	- Wedge Kit	Fac Adj. 41-310	Non Adj.	- 77		- / - 0.30	-	Non Adj.	Non Adj.	-		- / -

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Mercury Milan	**2006 - 2010**	X		Ball Joint	41-236	41-236	76	88-1304	0.90 / 0.90	- Rear Arm	Non Adj. 46-2231	Fac Adj.	- 138		- / - 0.50
Mercury Monarch RWD	**1975 - 1980**	X		Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Montego RWD	**1968 - 1971**	X		Cam Bolt	41-8243	Fac Adj.	80		0.60 / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Montego AWD	**2005 - 2007**	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Mercury Montego FWD	**2005 - 2007**	X		-	Fac Adj.	Fac Adj.	-		- / -	Camber Kit	46-135	Fac Adj.	116		0.75 / -
Mercury Monterrey	**2004 - 2007**	X		- Tower Plate	Fac Adj. 41-4609	Fac Adj.	- 80		- / - 0.90	-	Non Adj.	Non Adj.	-		- / -
Mercury Mountaineer 2WD/4WD	**1997 - 2001**		X	Camber Kit Cam Bolt Greaseable Cam Bolt	44-767 44-768 44-836	44-767 44-836 44-768	94 94 100		0.30 / 0.30 0.30 / 0.30 0.30 / 0.30	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Mercury Mountaineer 2WD/4WD	**2002**	X		Alignment Washers Camber Kit	44-769 44-771[8]	44-769 44-771[8]	95 95	88-8926	0.30 / 0.30 0.30 / 0.30	Alignment Washers Camber Kit	44-769 44-773[8]	46-9812	95 95		0.30 / 0.50 0.30
Mercury Mountaineer 2WD/4WD	**2003 - 2005**	X		Alignment Washers Camber Kit	44-769 44-771[8]	44-769 44-771[8]	95 95	88-8926	0.30 / 0.30 0.30 / 0.30	Alignment Washers Camber Kit	44-769 44-773[8]	46-9811	95 95		0.30 / 0.50 0.30
Mercury Mountaineer 2WD/4WD	**2006 - 2010**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Mercury Mystique	**1995 - 2000**	X		-	Non Adj.	Non Adj.	-	88-9416	- / -	-	Non Adj.	Fac Adj.	-		- / -
Mercury Sable Sedan	**1986 - 1990**	X		- Tower Plate	Fac Adj. 41-4603	Fac Adj. 41-4603	- 80	88-1302 88-9200 88-9416	- / - 0.50 / 0.50	Bushing Cam Bolt	46-131 46-132	Fac Adj. 46-131 46-132	115 116	88-9416	0.50 / - 0.40 / 0.50 0.40
Mercury Sable Wagon	**1986 - 1990**	X		- Tower Plate	Fac Adj. 41-4603	Fac Adj. 41-4603	- 80	88-9416	- / - 0.50 / 0.50	Cam Bolt	46-136	Fac Adj.	116	88-1300 88-4511 88-9416	0.80 / -
Mercury Sable Sedan	**1991 - 1995**	X		- Tower Plate	Fac Adj. 41-4605	Fac Adj. 41-4605	- 80	88-1302 88-9200 88-9416	- / - 0.50 / 0.50	Bushing Cam Bolt	46-131 46-132	Fac Adj. 46-131 46-132	115 116	88-9416	0.50 / - 0.40 / 0.50 0.40
Mercury Sable Wagon	**1991 - 1995**	X		- Tower Plate	Fac Adj. 41-4605	Fac Adj. 41-4605	- 80	88-9416	- / - 0.50 / 0.50	Cam Bolt	46-136	Fac Adj.	116	88-1300 88-4511 88-9416	0.80 / -
Mercury Sable Sedan	**1996 - 2005**	X		- Tower Plate	Fac Adj. 41-4607	Fac Adj.	- 80	88-4520 88-7870C 88-9416	- / - 0.90	Bushing Cam Bolt	46-131 46-134	Fac Adj. 46-131 46-134	115 116	88-9200 88-9416	0.50 / - 0.50 / 0.50 0.50
Mercury Sable Wagon	**1996 - 2005**	X		- Tower Plate	Fac Adj. 41-4607	Fac Adj.	- 80	88-4520 88-9416	- / - 0.90	Cam Bolt	46-136	Fac Adj.	116	88-9066 88-9416	0.80 / -
Mercury Sable FWD	**2008 - 2009**	X		-	Fac Adj.	Fac Adj.	-		- / -	Camber Kit	46-135	Fac Adj.	116		0.75 / -
Mercury Topaz	**1984 - 1994**	X		- Tower Plate	Fac Adj. 41-4601	Fac Adj. 41-4601	- 80	88-4602	- / - 0.50 / 0.50	Wedge Kit	46-201	Fac Adj.	120	88-9200	0.40 / -
Mercury Tracer	**1987 - 1996**	X		- Magna Cam Wedge Kit Performance Kit	Fac Adj. 41-147[3] 41-300 41-1460	Fac Adj.	- 74 76 79		- / - 0.30 0.30 -	Magna Cam Wedge Kit Performance Kit	41-147[3] 41-300 41-1470	Fac Adj. 46-205	74 76 79		0.30 / - 0.30 / 0.30 -
Mercury Tracer	**1997 - 1998**	X		-	Fac Adj.	Fac Adj.	-		- / -	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mercury Villager	**1993 - 2002**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Mercury Zephyr RWD	**1978 - 1983**	X		Cam Bolt	41-216	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
MINI															
Mini Cooper Cooper S	**2002 - 2014**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Mini Cooper Hardtop R50/R53 before 3/02	**2002**	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Cooper Hardtop R50/R53 after 3/02	**2002 - 2006**	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -

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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Mini Cooper R52	2005 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Cooper Hardtop R57/R56/JCW	2007 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Cooper Clubman R55	2008 - 2014	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	46-459	Fac Adj.	125		0.30 / -
Mini Cooper Conv. F57	2009 - 2015	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Coupe Incl. Roadster R58/R59	2012 - 2015	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Cooper (F56)	2014 - 2018	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	46-462	Fac Adj.	125		0.30 / -
Mini Cooper Clubman F54	2016 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Cooper Countryman F60	2011 - 2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Cooper Countryman F60	2017 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mini Cooper Paceman R61	2013 - 2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
MITSUBISHI															
Mitsubishi 3000GT	1991 - 1998	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi 3000GT/3000AWD	1991 - 1999	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Cordia	1983 - 1988		X	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Diamante Sedan	1992 - 1996	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Diamante Wagon	1993 - 1996		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Diamante	1997 - 2004	X		Magna Cam Axis Cam Performance Kit	41-147[3] 41-212 41-1470	Non Adj.	74 75 79		0.30 / - 0.30 -	Shim	46-2170	Fac Adj.	131		0.30 / -
Mitsubishi Eclipse AWD	1990 - 1994	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Mitsubishi Eclipse FWD	1990 - 1994	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75	88-7800A	0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30
Mitsubishi Eclipse AWD	1995 - 1999	X		Ball Joint	41-550	41-550	78	88-1304	0.90 / 0.90	Shim	46-2170	Fac Adj.	131		0.30 / -
Mitsubishi Eclipse FWD	1995 - 1999	X		Ball Joint	41-550	41-550	78	88-1304 88-7800A	0.90 / 0.90	Shim	46-2170	Fac Adj.	131		0.30 / -
Mitsubishi Eclipse/Eclipse Spyder	2000 - 2012	X		- Magna Cam Axis Cam	Fac Adj. 41-159[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-2170	Fac Adj.	131		0.30 / -
Mitsubishi Eclipse Cross (FWD/AWD)	2018 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Mitsubishi Endeavor	2004 - 2011	X		Cam Bolt	41-216	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Expo/Expo LRV (All)	1992 - 1995	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Mitsubishi Galant FWD	1985 - 1993		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Galant AWD	1989 - 1993	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Galant FWD	1994 - 1998	X				Fac Adj.		88-7800A	-	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Galant	1999 - 2012	X		Magna Cam Axis Cam Ball Joint	41-159[2] 41-216 41-550	41-550	74 75 78	88-1304	0.30 / 0.90 0.30 0.90	Shim	46-2170	Fac Adj.	131		0.30 / -
Mitsubishi i-MiEV	2012 - 2017	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Lancer	2002 - 2007	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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					FRONT WHEEL ALIGNMENT					REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Mitsubishi Lancer Evolution	2002 - 2015	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Lancer	2008 - 2017	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	- Rear Arm	Fac Adj. 46-2178	Fac Adj.	- 132		- / - 0.60
Mighty Max RWD/4WD	1986 - 1996	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Mirage	1985 - 1992		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Mirage	1993 - 2002	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Mirage (Incl. G4)	2014 - 2020	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Montero/Montero Sport 4WD	1983 - 2001		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Pickup 2WD/4WD	1985 - 1996		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Montero 2WD	1997 - 2001		X	- Shim	Fac Adj. CC	Non Adj.	- 113		- / - -	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Montero 4WD	2002 - 2008	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Mitsubishi Outlander	2003 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	- Rear Arm	Non Adj. 46-2178	Fac Adj.	- 132		- / - 0.60
Mitsubishi Precis	1988 - 1993		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Raider	2006 - 2009	X		Greaseable Cam Bolt Cam Bolt	44-834 44-835	Non Adj.	100 100		0.50 / - 0.50	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi RVR	2011 - 2019	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2178	Fac Adj.	132		0.60 / -
Mitsubishi Sigma	1989 - 1990		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Starion	1983 - 1989	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Mitsubishi Tredia	1983 - 1988		X	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Mitsubishi Van/Wagon	1987 - 1990		X	-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
NISSAN															
Nissan (S110)	1980 - 1983	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Nissan (B12)	1984 - 1988	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Nissan 200SX	1995 - 1998		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan 240SX	1989 - 1998	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Nissan 240Z	1970 - 1973	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan 260Z	1974	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan 280Z	1975 - 1978	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan 280ZX	1979 - 1983	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan 300ZX	1984 - 1989	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan 300ZX	1990 - 1996	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Nissan 310	1979 - 1982	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan 350Z	2003 - 2009	X		-	Non Adj.	Non Adj.	-		- / -	- Rear Arm Cam Bolt	Fac Adj. 46-2199 46-164	Fac Adj. 46-164 46-2199	- 136 118		- / - 0.50 / 0.30 0.30 / 0.50
Nissan 370Z	2009 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	- Rear Arm / Cam bolt	Fac Adj. 46-2228	Fac Adj. 46-141 46-2228	- 137		- / - 0.50 / 0.30 0.50

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Nissan 510	1978 - 1981	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan 810	1977 - 1981	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Altima	1993 - 2001	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Nissan Altima	2002 - 2006	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Cam Bolt	46-164	46-164	118		0.30 / 0.30
Nissan Altima Sedan	2007 - 2012	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	- Rear Arm Cam Bolt	Fac Adj. 46-2199 46-164	Fac Adj. 46-2199 46-164	- 136 118		- / - 0.50 / 0.50 0.30 / 0.30
Nissan Altima Coupe	2007 - 2012	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	- Rear Arm Cam Bolt	Fac Adj. 46-2199 46-164	Fac Adj. 46-2199 46-164	- 136 118		- / - 0.50 / 0.50 0.30 / 0.30
Nissan Altima	2013 - 2020	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	46-2235	Fac Adj.	139		0.50 / -
Nissan Armada 2WD/4WD	2005 - 2015		X	Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Armada	2017 - 2020	X		Camber Kit	44-820	Fac Adj.	98		0.50 / -	-	Fac Adj.	Fac Adj.	-		- / -
Nissan Axxes	1990 - 1995	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Nissan B110	1970 - 1973	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Nissan B210	1973 - 1978	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Cube	2009 - 2014	X		Axis Cam Magna Cam	41-214 41-158[2]		75 74		0.30 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Nissan Frontier 2WD/4WD	1998 - 2004		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Frontier 2WD/4WD	2005 - 2020		X	Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan GT-R	2009 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Nissan Juke	2011 - 2017	X		Axis Cam Magna Cam	41-214 41-158[2]		75 74		0.30 0.30	Shim Shim	46-1300 SERIES[1] 46-2400[1]	46-1300 SERIES[1] 46-2400[1]	127 130		0.60 / 0.60 0.60 / 0.60
Nissan Kicks	2017 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Leaf	2011 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Shim	46-1120 SERIES[1]	46-1120 SERIES[1]	126		0.60 / 0.60
Nissan Maxima	1982 - 1984	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Maxima Sedan/Wagon	1985 - 1994	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Nissan Maxima	1995 - 2003		X	Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Rear Arm	Non Adj.	Non Adj.	-		- / -
Nissan Maxima	2004 - 2014	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Rear Arm Cam Bolt	46-2199 46-164	46-2199 46-164	136 118		0.50 / 0.50 0.30 / 0.30
Nissan Maxima	2016 - 2020	X		-	41-214	Non Adj.	75		0.30 / -	Rear Arm	46-2235	Fac Adj.	139		0.50 / -
Nissan Murano	2003 - 2020	X		Axis Cam Camber Kit	41-214 41-157[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Nissan NV 1500	2012 - 2019	X		Cam Bolt	41-8269	Fac Adj.	84		0.50 / -	-	Non Adj.	Non Adj.	-		- / -
Nissan NV 200	2013 - 2020	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Nissan NV 2500	2012 - 2019	X		Cam Bolt	41-8269	Fac Adj.	84		0.50 / -	-	Non Adj.	Non Adj.	-		- / -
Nissan NV 3500	2012 - 2019	X		Cam Bolt	41-8269	Fac Adj.	84		0.50 / -	-	Non Adj.	Non Adj.	-		- / -
Nissan NX Coupe	1991 - 1993	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

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Nissan Pathfinder 2WD/4WD	1987 - 1995		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Pathfinder 2WD/4WD	1996 - 2004		X	Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Pathfinder 2WD/ 4WD	2005 - 2012		X	Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Pathfinder 2WD/ 4WD	2013 - 2020		X	Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Nissan Pickup 2WD/4WD	1995 - 2000		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Pulsar	1983		X	Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Pulsar NX	1983 - 1986	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Nissan Pulsar NX	1987 - 1990	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Nissan Quest	1993 - 2002	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Nissan Quest	2004 - 2014	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Nissan Rogue	2008 - 2013	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Nissan Rogue	2014 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Nissan Rouge Select	2014 - 2015	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Nissan Rogue Sport	2017 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Nissan Sentra	1982 - 1986		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Sentra	1987 - 1994	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Nissan Sentra	1995 - 2006		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Sentra (with out ABS)	2007 - 2012	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1120A	46-1120A	127		0.60 / 0.60
Nissan Sentra (with ABS)	2007 - 2012	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Sentra	2013 - 2019	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Nissan Stanza	1982 - 1992	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Nissan Stanza Wagon AWD	1986 - 1988	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Wedge Kit	41-305	Fac Adj.	76		0.30 / -
Nissan Titan 2WD/4WD	2004 - 2015		X	Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Nissan Titan 2WD/4WD	2017 - 2020		X	Cam Bolt	41-8269	Fac Adj.	84		0.50 / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Titan XD	2016 - 2020		X	Cam Bolt	41-8269	Fac Adj.	84		0.50 / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Van/XE/GXE	1987 - 1988		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Nissan Versa	2007 - 2011	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1500 SERIES[1]	46-1500 SERIES[1]	127		0.60 / 0.60
Nissan Versa (Incl. Note)	2012 - 2020	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim	46-2100[1]	46-2100[1]	130		0.60 / 0.60
Nissan Xterra	2000 - 2004		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Nissan Xterra	**2005 - 2015**	X		Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
OLDSMOBILE															
Oldsmobile 442	**1964 - 1971**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile 98	**1977 - 1984**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile 98	**1985 - 1996**	X		Axis Cam	41-216	Fac Adj.	75		0.30 / -	Axis Cam	41-216	Fac Adj.	75		0.30 / -
Oldsmobile Achieva	**1992 - 1995**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Achieva	**1996 - 1998**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Alero	**1999 - 2004**	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-144 41-212	Fac Adj.	74 75		0.30 / - 0.30
Oldsmobile Aurora	**1995 - 1999**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	- Shim	Non Adj. 46-1500 SERIES[1]	Fac Adj. 46-1500 SERIES[1]	- 127		- / - 0.60 / 0.60
Oldsmobile Aurora	**2001 - 2003**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1900	Fac Adj.	130		0.80 / -
Oldsmobile Bravada AWD	**1991 - 2001**		X	- Cam Bolt	Fac Adj. 41-8246	Fac Adj. 41-8246	- 81		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Bravada 2WD/4WD	**2002 - 2004**		X	Camber- Caster Tool	88-8929	88-8929	156		- / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Calais	**1985 - 1987**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile All RWD	**1975 - 1992**		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Cutlass/ Supreme	**1964 - 1972**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Cutlass/ Supreme	**1973 - 1977**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Cutlass/ Supreme	**1977 - 1988**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Cutlass	**1997 - 1999**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-144 41-212	Fac Adj.	74 75		0.30 / - 0.30
Oldsmobile Cutlass Calais	**1985 - 1991**	X		Axis Cam	41-216	Non Adj.	75		0.30 / -	Shim	46-2300[1]	46-2300[1]	130		- / -
Oldsmobile Cutlass Ciera/Cruiser	**1982 - 1996**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.60 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Cutlass Supreme	**1988 - 1997**	X		- Shim	Fac Adj. 45-7010[4]	Non Adj.	- 117	88-060	- / - 0.50	Magna Cam Axis Cam	41-160[2] 41-216	Fac Adj.	74 75	88-8923	0.30 / - 0.30
Oldsmobile Delta 88 Royale FWD	**1986 - 1991**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Shim Shim	41-160[2] 46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	74 127 130	88-050 88-1110 88-343	0.30 / - 0.60 / 0.60 0.60 / 0.60
Oldsmobile Firenza	**1982 - 1988**	X		Cam Bolt	41-8245	Non Adj.	81	88-4511	0.40 / -	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Firenza	**1984 - 1988**	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Intrigue	**1998 - 2002**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Oldsmobile Eighty-Eight/LSS	**1996 - 1999**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Shim Shim	41-160[2] 46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	74 127 130	88-050 88-1110 88-343	0.30 / - 0.60 / 0.60 0.60 / 0.60
Oldsmobile Omega	**1975 - 1979**	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Omega	**1980 - 1984**	X		Cam Bolt	41-8245	Non Adj.	81		0.30 / -	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Regency	**1997 - 1998**	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Shim Shim	Fac Adj. 41-160[2] 46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	- 74 127 130	88-050 88-1110 88-343	- / - 0.30 / 0.60 0.60 / - 0.60
Oldsmobile Silhouette	**1990 - 1996**	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Silhouette	**1997 - 2004**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Silhouette AWD	**2002 - 2004**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Oldsmobile Toronado	**1966 - 1978**		X	- Cam Bolt	Fac Adj. 41-8247	Fac Adj. 41-8247	- 81		- / - 1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Oldsmobile Toronado	**1979 - 1985**	X		- Cam Bolt	Fac Adj. 41-8247	Fac Adj. 41-8247	- 81		- / - 1.00 / 1.00	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Oldsmobile Toronado/Trofeo	**1986 - 1992**	X		Magna Cam Axis Cam	41-160[2] 41-216	Fac Adj.	74 75		0.30 / - 0.30	Shim	46-1600	Fac Adj.	128		0.60 / -
PLYMOUTH															
Plymouth Acclaim	**1989 - 1995**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Barracuda	**1970 - 1974**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Belvedere	**1965 - 1970**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Breeze	**1996 - 2000**	X		Ball Joint	41-230	41-230	76	88-1304	0.90 / 0.90	-	Fac Adj.	Fac Adj.	-		- / -
Plymouth Caravelle	**1985 - 1988**	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Champ	**1979 - 1982**		X	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Plymouth Colt	**1984 - 1991**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Plymouth Colt	**1992 - 1994**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Plymouth Conquest	**1984 - 1986**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Duster	**1973 - 1976**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Grand Fury	**1972 - 1989**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth GTX	**1967 - 1971**	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Horizon/TC3	**1978 - 1990**	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Laser 2WD	**1990 - 1994**		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Plymouth Laser AWD	**1992 - 1994**	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Plymouth Neon	**1995 - 2001**	X		Magna Cam Axis Cam	41-157[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	- Wedge Kit	Fac Adj. 41-300	Fac Adj.	- 76		- / - 0.30

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2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Plymouth Prowler	1997 - 2001	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Plymouth Reliant	1981 - 1989	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Reliant	1984 - 1989	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Roadrunner	1968 - 1972	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Sapporo	1980 - 1983	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Satellite	1965 - 1972	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Scamp	1983	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Sundance	1987 - 1994	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Trailduster 2WD	1977 - 1981		X	- Cam Bolt	Fac Adj. 41-8243	Fac Adj. 41-8243	- 80		- / - 0.60 / 0.60	-	Non Adj.	Non Adj.	-		- / -
Plymouth Trailduster 4WD	1977 - 1981		X					88-7090		-	Non Adj.	Non Adj.	-		- / -
Plymouth Turismo	1983 - 1985	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Turismo	1983 - 1987	X		Magna Cam Axis Cam Cam Bolt	41-157[2] 41-214 41-8249	Non Adj.	74 75 81		0.30 / - 0.30 0.30	Shim	46-2100[1]	46-2100[1]	130	88-343	- / -
Plymouth Valiant	1973 - 1976	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Plymouth Voyager FWD	1984 - 1995	X		- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1100[1] 46-2200[1]	46-1100[1] 46-2200[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Plymouth Voyager AWD	1991 - 1995		X	- Cam Bolt	Fac Adj. 41-8249	Non Adj.	- 81		- / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Plymouth Voyager AWD	1996 - 2000		X	- Magna Cam Axis Cam	Fac Adj. 41-157[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Plymouth Voyager FWD	1996 - 2000	X		- Magna Cam Axis Cam	Fac Adj. 41-157[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1120[1]	46-1120[1]	126	88-343 88-4519	0.60 / 0.60
PONTIAC															
Pontiac 6000	1982 - 1991	X		- Cam Bolt	Fac Adj. 41-8245	Non Adj.	- 81		- / - 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac 6000 STE AWD	1986 - 1991	X		- Cam Bolt	Fac Adj. 41-8245	Non Adj.	- 81		- / - 0.30	- Cam Bolt	Fac Adj. 41-8245	Fac Adj.	- 81		- / - 0.30
Pontiac Astre	1975 - 1977		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Aztek FWD	2001 - 2005	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Aztek AWD	2001 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Pontiac Bonneville	1970 - 1976	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Bonneville	1977 - 1981	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Bonneville	1982 - 1986	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Bonneville	1987 - 1999	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Shim	41-160[2] 46-1300[1]	Fac Adj. 46-1300[1] 46-2400[1]	74 127	88-050 88-1110 88-343	0.30 / - 0.60 / 0.60 0.60
Pontiac Bonneville	2000 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Fac Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1900	Fac Adj.	130		0.80 / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Pontiac Catalina	1965 - 1981	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Fiero	1984 - 1988	X		-	Fac Adj.	Fac Adj.	-		- / -	Cam Bolt	41-8245	Fac Adj.	81		0.30 / -
Pontiac Firebird	1967 - 1981		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Firebird F-Body	1982 - 1992		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Firebird	1993 - 2002		X	-	Fac Adj.	Fac Adj.	-	88-8925	- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Firefly (Canada)	1989 - 2000	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac G3 Wave	2009	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Shim	46-2100[1]	46-2100[1]	130		- / -
Pontiac G5	2007 - 2010	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	- Shim	Fac Adj. 46-1520 SERIES[1]	Fac Adj. 46-1520 SERIES[1]	- 127		- / - 0.60 / 0.60
Pontiac G6	2005 - 2010	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	- Shim Dual Axis Cam bolt	Fac Adj. 46-1520A 46-425	Fac Adj. 46-1520A 46-426	- 128 121		- / - 0.60 / 0.60 0.30 / 0.30
Pontiac G8	2008 - 2009	X		Axis Cam Magna Cam	41-214 41-158[2]	Fac Adj.	75 74		0.30 / - 0.30	- Cam Bolt	Fac Adj. 46-182	Fac Adj. 46-182	- 120		- / - 0.30 / 0.30
Pontiac Grand Am	1973 - 1975	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Grand Am	1978 - 1980	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Grand Am	1985 - 1995	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75	88-4511	- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Trans Am	1993 - 2002		X	-	Fac Adj.	Fac Adj.	-	88-8925	- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Grand Am	1996 - 1998	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Grand Am	1999 - 2003	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-144 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30
Pontiac Grand Am	2004 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		0.30 / - - 0.30	- Magna Cam Axis Cam	Fac Adj. 41-144 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30
Pontiac Grand Prix	1965 - 1972	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Grand Prix	1973 - 1977	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Grand Prix	1978 - 1987	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Grand Prix	1988 - 1996	X		- Shim	Fac Adj. 45-7010[4]	Non Adj.	- 117	88-060	- / - 0.50	Magna Cam Axis Cam	41-160[2] 41-216	Fac Adj.	74 75	88-8923	0.30 / - 0.30
Pontiac Grand Prix	1997 - 2008	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30
Pontiac GTO	1964 - 1972	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac GTO	2004 - 2006	X		Magna Cam Axis Cam	41-158[2] 41-214	Fac Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Pontiac Sunbird/J2000	1982 - 1994	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac LeMans	1978 - 1981	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac LeMans	1988 - 1993		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Montana	1999 - 2009	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	- Shim	Fac Adj. 46-1300 SERIES[1]	Fac Adj. 46-1300 SERIES[1]	- 127		- / - 0.60 / 0.60

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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				FRONT WHEEL ALIGNMENT					REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Pontiac Montana AWD	2002 - 2009	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Pontiac Phoenix	1980 - 1984	X		Cam Bolt	41-8245	Non Adj.	81		0.30 / -	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Safari SW	1987 - 1989	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Solstice	2006 - 2009	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Pontiac Sunburst	1985 - 1988	X		Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Sunfire	1995 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac T1000	1981 - 1987	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Tempest	1964 - 1970	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Tempest (Canada)	1988 - 1991	X		Magna Cam Axis Cam	41-160[2] 41-216	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130	88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Torrent	2006 - 2009	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Cam Nut	44-775	44-775	95		0.30 / 0.30
Pontiac Trans Am	1990 - 1992		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Pontiac Trans Sport	1990 - 1996	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Trans Sport	1997 - 1999	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130	88-050 88-1110 88-343	0.60 / 0.60 0.60 / 0.60
Pontiac Vibe	2003 - 2010	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
PORSCHE															
Porsche Boxster (718)	2017 - 2020	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche Cayman (718)	2017 - 2020	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche 911	1965 - 2014	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche 924	1977 - 1988	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Porsche 928	1978 - 1995	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche 944	1983 - 1991	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Fac Adj.	74 76 75		0.30 / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Porsche 968	1992 - 1995	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche Boxster (986)	1997 - 2004	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche Boxster (987/981)	2005 - 2016	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche Cayenne	2003 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Cayman (987/981) RWD	2006 - 2016	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Porsche Macan	2015 - 2020	X		-	Fac Adj.	Non Adj.	-		- / -	Cam Bolt	46-456	46-456	124		0.30 / 0.30
Porsche Panamera	2010 - 2017	X		-	Fac Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -

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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
RAM															
Dodge Ram 1500 (Mega Cab) (8-lug) 2wd	2011 - 2020		X	-	Fac Adj.	Fac Adj.	-		- / -						
Dodge Ram 1500 (Mega Cab) (8-lug) 4wd	2011 - 2020		X	-	Non Adj.	Fac Adj.	-		- / -						
Dodge Ram 1500 2WD/4WD (5-lug) (Exc. Mega Cab)	2011 - 2019		X	Ball Joint Cam Bolt	44-2489 44-868	44-2489 44-868	102 102		0.90 / 0.90 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge Ram 1500 2WD/4WD	2019 - 2020		X	Cam Bolt	44-868	44-868	102		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500/3500 P/U NS 4WD	2011 - 2013		X	Ball Joint	44-2497	44-824 44-2497	104		0.90 / 0.30 0.90	-	Non Adj.	Non Adj.	-		- / -
Dodge Truck 2500 2WD (incl. HD)	2011 - 2013		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500 P/U NS 4WD	2014 - 2019		X	Ball Joint Front Tie Rod Toe Sleeve	44-2497 44-2540	44-823 44-825 44-2497	104 107	44-2540 44-2542	0.90 / 0.30 0.30 / 0.30 0.90	-	Non Adj.	Non Adj.	-		- / -
Dodge 2500 2wd	2014 - 2019		X	- Front Tie Rod Toe Sleeve	Fac Adj. 44-2540	Fac Adj.	- 107	44-2540 44-2542	- / - 0.30						
Dodge 2500/3500 P/U NS 4WD	2011 - 2012		X	Ball Joint	44-2497	Fac Adj. 44-2497	104		0.90 / - 0.90	-	Non Adj.	Non Adj.	-		- / -
Dodge 3500 2wd / mono beam	2011 - 2012		X	Ball Joint	44-2497	Fac Adj. 44-2497	104		0.90 / - 0.90	-	Non Adj.	Non Adj.	-		- / -
Dodge Truck 3500 2WD	2011 - 2012		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Dodge 3500 P/U NS 4WD	2013 - 2019		X	Ball Joint Front Tie Rod Toe Sleeve Front Tie Rod Toe Sleeve	44-2497 44-2540 44-2542	44-823 44-825 44-2497	104 107 107	44-2540 44-2542	0.90 / 0.30 0.30 / 0.30 0.30 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Dodge 3500 2wd	2013 - 2019		X	- Front Tie Rod Toe Sleeve Front Tie Rod Toe Sleeve	Fac Adj. 44-2540 44-2542	44-823 44-825	- 107 107	44-2540 44-2542	- / 0.30 0.30 / 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Dodge 3500 2wd / mono beam	2013 - 2019		X	Ball Joint Front Tie Rod Toe Sleeve Front Tie Rod Toe Sleeve	44-2497 44-2540 44-2542	44-823 44-825 44-2497	104 107 107	44-2540 44-2542	0.90 / 0.30 0.30 / 0.30 0.30 / 0.90	-	Non Adj.	Non Adj.	-		- / -
Dodge 4500 / 5500 2wd	2011 - 2018		X	Ball Joint	44-2610	44-2610	108		1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Dodge 4500 / 5500 4wd	2011 - 2018		X	Ball Joint	44-2610	44-2610	108		1.00 / 1.00	-	Non Adj.	Non Adj.	-		- / -
Ram C/V Tradesman AWD	2012 - 2015	X		Magna Cam Axis Cam Cam Bolt	41-157[2] 41-214 41-8249	Non Adj.	74 75 81		0.30 / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Ram C/V Tradesman FWD	2012 - 2015	X		Magna Cam Axis Cam Cam Bolt	41-157[2] 41-214 41-8249	Non Adj.	74 75 81		0.30 / - 0.30 0.30	Shim	46-1120[1]	46-1120[1]	126	88-343	0.60 / 0.60
Ram Promaster	2014		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Ram Promaster City	2015 - 2019		X	Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Ram Promaster	2014 - 2018		X			Non Adj.			-	-	Non Adj.	Non Adj.	-		- / -
RENAULT															
Renault AMC Alliance	1983 - 1986		X	- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Renault Alliance	1983 - 1987		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Renault Encore	1984 - 1986		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
SAAB															
Saab 9-2X	2005 - 2006	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Axis Cam Magna Cam	41-214 41-158[2]	Fac Adj.	75 74		0.30 / - 0.30
Saab 9-3	1999 - 2011	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Dual Axis Cam bolt	46-425	Non Adj. 46-426	121		0.30 / - 0.30

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3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Saab 9-3X	2010 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Saab 9-4X	2011	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Saab 9-5 Sedan/Wagon	1999 - 2009		X	Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Saab 9-5	2010 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Saab 9-7x	2005 - 2009		X	Camber-Caster Tool	88-8929	88-8929	156		- / -	-	Non Adj.	Non Adj.	-		- / -
Saab 900	1979 - 1993		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Saab 900	1994 - 1998		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Saab 900 Convertible	1994		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Saab 9000	1986 - 1998		X	Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Saab 99	1980	X		Shim	CC	CC	113		- / -	-	Non Adj.	Non Adj.	-		- / -
SATURN															
Saturn Astra	2008 - 2009	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Saturn Aura	2007 - 2009	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	- Shim Dual Axis Cam bolt	Fac Adj. 46-1200A 46-425	Fac Adj. 46-1200A 46-426	- 127 121		- / - - / - 0.30 / 0.30
Saturn Ion	2004 - 2007	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1520[1]	46-1520[1]	127		0.60 / 0.60
Saturn L Series	2000 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1200[1] 46-2300[1]	46-1200[1] 46-2300[1]	127 130		0.60 / 0.60 0.60 / 0.60
Saturn GM EV-1	1997 - 2001		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Saturn Outlook	2007 - 2010	X		- Magna Cam Axis Cam	Fac Adj. 41-160[2] 41-216	Non Adj.	- 74 75		- / - 0.30 0.30	- Camber Kit Cam Bolt	Fac Adj. 46-421 41-8257	Fac Adj.	- 120 82	88-7996A	- / - 1.00 0.30
Saturn Relay AWD	2005 - 2007	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Saturn Relay FWD	2005 - 2007	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim Shim	46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	127 130		0.60 / 0.60 0.60 / 0.60
Saturn Sky	2007 - 2010	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Saturn SL	1991 - 1998	X		Magna Cam Axis Cam	41-158[2] 41-214	Fac Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-158[2] 41-214	Fac Adj. 46-406	74 75		0.30 / - 0.30 / 0.60
Saturn S Series	1991 - 2002	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	46-406	- 74 75		- / 0.60 0.30 0.30
Saturn Vue	2002 - 2006	X		- Magna Cam Axis Cam	Fac Adj. 41-157[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Saturn Vue	2007 - 2009	X		- Magna Cam Axis Cam	Fac Adj. 41-157[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Cam Nut	44-775	44-775	95		0.30 / 0.30
SCION															
Scion FR-S	2013 - 2016	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	46-2177	-		- / 0.50
Scion iA	2016	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Scion iM	2016	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	-	Non Adj.	46-171	-		- / 0.30
Scion iQ	2012 - 2014	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	Shim	46-1500 SERIES[1]	46-1500 SERIES[1]	127		0.60 / 0.60
Scion tC	2005 - 2010	X		Magna Cam Cam Bolt	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1500 SERIES[1]	46-1500[1]	127		0.60 / 0.60
Scion tC	2011 - 2016	X		Cam Bolt	41-217	Fac Adj.	75		0.30 / -	Shim	46-1500[1]	46-171 46-1500[1]	127		0.60 / 0.30 0.60

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Scion xA	2004 - 2006	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Scion xB	2004 - 2006	X		Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1500 SERIES[1]	46-1500 SERIES[1]	127		0.60 / 0.60
Scion xB	2008 - 2014	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	Shim	46-1500 SERIES[1]	46-1500 SERIES[1]	127		0.60 / 0.60
Scion xD	2008 - 2014	X		Axis Cam Magna Cam	41-215 41-149	Non Adj.	75 74		0.30 / - 0.30	Shim	46-1500 SERIES[1]	46-1500 SERIES[1]	127		0.60 / 0.60
SMART															
Smart Fortwo Gas Engine	2016 - 2019	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Smart Fortwo	2005 - 2015	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Smart Fortwo Electric Drive	2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
STERLING															
Sterling Blower	1987 - 1991	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Sterling Bullet 45/55	2008		X	Ball Joint	44-2610	Non Adj.	108		1.00 / -	-	Non Adj.	Non Adj.	-		- / -
SUBARU															
Subura B9 Tribeca, Tribeca	2006 - 2010	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	46-431	-		- / 0.30
Subaru Baja	2003 - 2006	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Rear Arm	46-2233	Non Adj. 46-431	138		0.30 / - 0.30
Subaru Impreza FWD/AWD	2008 - 2020	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj. 46-2177	-		- / - 0.50
Subaru Crosstrek (Incl. Hybrid)	2016 - 2020	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Fac Adj.	46-2177	-		- / 0.60
Subaru Forester	1998 - 2007	X		- Axis Cam	Fac Adj. 41-214	Non Adj.	- 75		- / - 0.30	Axis Cam Magna Cam	41-214 41-158[2]	Fac Adj.	75 74		0.30 / - 0.30
Subaru Forester	2003 - 2008	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	Axis Cam Magna Cam	41-214 41-158[2]	46-461	75 74		0.30 / 0.30 0.30
Subaru Forester	2009 - 2020	X		- Axis Cam Magna Cam	Fac Adj. 41-214 41-158[2]	Non Adj.	- 75 74		- / - 0.30 0.30	-	Non Adj.	Fac Adj. 46-2177	-		- / - 0.50
Subaru Impreza FWD/AWD	1993 - 2001	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30
Subaru Impreza	2002 - 2007	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Axis Cam Magna Cam	41-214 41-158[2]	46-461	75 74		0.30 / 0.30 0.30
Subaru WRX	2002 - 2007	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-158[2] 41-214		74 75		0.30 0.30
Subaru Justy	1987 - 1994	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Subaru Legacy 2WD/4WD	1990 - 1999	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-158[2] 41-214	Fac Adj.	74 75		0.30 / - 0.30
Subaru Legacy	2000 - 2009	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	Rear Arm	46-2233	46-431	138		0.30 / 0.30
Subaru Legacy	2010 - 2020	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	46-2177	-		- / 0.50
Subaru Loyale FWD/AWD	1990 - 1994	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Subaru Outback	2000 - 2009	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Rear Arm	46-2233	46-431	138		0.30 / 0.30
Subaru Outback	2010 - 2020	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	46-2177	-		- / 0.50

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
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		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Subaru SVX	1992 - 1997	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-158[2] 41-214	Fac Adj.	74 75		0.30 / - 0.30
Subaru Tribeca	2011 - 2014	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Subaru WRX Incl. STI	2015 - 2020	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Non Adj. 46-2177	-		- / - 0.50
Subaru XT	1985 - 1991	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Subaru XV Crosstrek (Incl. Hybrid)	2013 - 2015	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	46-2177	-		- / 0.50
SUZUKI															
Suzuki Aerio	2002 - 2007	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Axis Cam	41-212	Fac Adj.	75		0.30 / -
Suzuki Equator	2009 - 2012		X	Cam Bolt Greaseable Cam Bolt	44-820 44-862	44-820 44-862	98 101		0.30 / 0.30 0.30 / 0.30	Cam Nut	44-775	Non Adj. 44-775	95		0.30 / - 0.30
Suzuki Esteem	1995 - 2002	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Suzuki Forenza Incl. Wagon	2004 - 2008	X		Axis Cam	41-212	Fac Adj.	75		0.30 / -	Axis Cam	41-212		75		0.30
Suzuki Forsa	1985 - 1988	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Suzuki Grand Vitara 2WD / 4WD	1999 - 2014		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	Axis Cam	41-212	Non Adj.	75		0.30 / -
Suzuki Kizashi	2011 - 2012	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Suzuki Reno	2005 - 2008	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	Axis Cam	41-212	Fac Adj.	75		0.30 / -
Suzuki Samurai 2WD	1985 - 1995		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Suzuki Sidekick 2WD	1989 - 1998		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Suzuki Swift	1989 - 2001	X		Magna Cam Wedge Kit Axis Cam	41-147[3] 41-300 41-212	Non Adj.	74 76 75		0.30 / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Suzki SX4	2007 - 2014	X		Axis Cam Magna Cam	41-212 41-147[3]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Suzuki Verona	2004 - 2006	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Suzuki Vitara 2WD	1999 - 2004		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Suzuki X-90 2WD	1996 - 1998		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Suzuki XL-7	2002 - 2006	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Suzuki XL-7	2007 - 2009	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	- Cam Nut	Fac Adj. 44-775	Fac Adj. 44-775	- 95		- / - 0.30 / 0.30
TESLA															
Tesla 3	2017 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Tesla Model S	2012 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Tesla Model X	2014 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
TOYOTA															
Toyota 4 Runner 2WD/4WD	1984 - 1989		X	- Shim	Fac Adj. CC	Fac Adj.	- 113		- / - -	-	Non Adj.	Non Adj.	-		- / -
Toyota 4 Runner 2WD/4WD	1996 - 2002		X	- Greaseable Cam Bolt	Fac Adj. 44-826	Fac Adj. 44-826	- 99		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -

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3. For models with slotted strut brackets only.
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5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
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FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Toyota 4 Runner 2WD/4WD	2003 - 2009		X	- Greaseable Cam Bolt	Fac Adj. 44-827	Fac Adj. 44-827	- 99		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota 4Runner 2WD/4WD	2010 - 2020		X	Greaseable Cam Bolt	44-828	44-828	99		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota 86	2017 - 2019	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Fac Adj.	-		- / -
Toyota Avalon	1995 - 2012	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam Shim Shim	41-149 41-215 46-1300 SERIES[1] 46-2400[1]	Fac Adj. 46-1300 SERIES[1] 46-2400[1]	74 75 127 130	88-343	0.30 / - 0.30 / 0.60 0.60 / 0.60 0.60
Toyota Avalon/ Hybrid	2013 - 2020	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-151 41-217	46-455 46-2239	74 75	88-343	0.30 / 0.50 0.30 / 0.50
Toyota C-HR	2018 - 2020	X		Cam Bolt	41-217	Non Adj.	75		0.30 / -	-	Non Adj.	46-455	-		- / 0.50
Toyota Camry	1983 - 1987	X		Magna Cam Axis Cam	41-147[3] 41-212	45-6001 45-6002	74 75		0.30 / 0.20 0.30 / 0.20	Magna Cam Wedge Kit	41-147[3] 41-300	Fac Adj.	74 76		0.30 / - 0.30
Toyota Camry	1988 - 1991	X		Magna Cam Wedge Kit Axis Cam	41-151 41-305 41-217	45-6001 45-6002	74 76 75		0.30 / 0.20 0.30 / 0.20 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Toyota Camry Alltrac	1988 - 1991	X		Magna Cam Axis Cam	41-151 41-217	Fac Adj. 45-6001 45-6002	74 75		0.30 / - 0.30 / 0.20 0.20	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Toyota Camry Inc. Hybrid	1992 - 2011	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	Axis Cam	41-215	Fac Adj.	75		0.30 / -
Toyota Camry/ Hybrid	2012 - 2017	X		Axis Cam	41-217		75		0.30	Axis Cam	41-217	46-2239	75		0.30 / 0.50
Toyota Camry Hybrid	2018 - 2020	X		Axis Cam	41-217	Non Adj.	75		0.50 / -	-	Non Adj.	46-455	-		- / 0.50
Toyota Celica FWD	1986 - 1989	X		Magna Cam Wedge Kit	41-149 41-301	Non Adj.	74 76		0.30 / - 0.30	Magna Cam Wedge Kit	41-149 41-301	Fac Adj.	74 76		0.30 / - 0.30
Toyota Celica Alltrac	1988 - 1989	X		Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Toyota Celica	1990 - 1993	X		- Magna Cam Wedge Kit	Fac Adj. 41-149 41-305	Non Adj.	- 74 76		- / - 0.30 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Toyota Celica Alltrac	1990 - 1993		X	-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Toyota Celica/ST/GT/GT-S	1994 - 2005	X		Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Toyota Celica GT/GT-S	2000 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Non Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Toyota Corolla	1975 - 1987	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Corolla FWD	1984 - 1987	X		Magna Cam Wedge Kit	41-147[3] 41-300	Non Adj.	74 76		0.30 / - 0.30	Magna Cam Wedge Kit Shim Shim	41-147[3] 41-300 46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	74 76 127 130	88-343	0.30 / - 0.30 / 0.60 0.60 / 0.60 0.60
Toyota Corolla FX-16/FX	1987 - 1988	X		- Magna Cam Wedge Kit	Fac Adj. 41-147[3] 41-300	Non Adj.	- 74 76		- / - 0.30 0.30	Magna Cam Wedge Kit Shim Shim	41-147[3] 41-300 46-1300[1] 46-2400[1]	46-1300[1] 46-2400[1]	74 76 127 130	88-343	0.30 / 0.60 0.30 / 0.60 0.60 0.60
Toyota Corolla Alltrac	1988 - 1992		X	Magna Cam Wedge Kit	41-149 41-305	Non Adj.	74 76		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Corolla FWD	1988 - 1992	X		Magna Cam Wedge Kit	41-149 41-305	Non Adj.	74 76		0.30 / - 0.30	Magna Cam Wedge Kit Shim Shim	41-147[3] 41-300 46-1300[1] 46-2400[1]	Fac Adj. 46-1300[1] 46-2400[1]	74 76 127 130	88-343	0.30 / - 0.30 / 0.60 0.60 / 0.60 0.60
Toyota Corolla	1993 - 2002	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Non Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30
Toyota Corolla	2003 - 2008	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Toyota Corolla	2009 - 2020	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	Shim	46-1500[1]	46-1500[1] 46-171	127		0.60 / 0.60 0.30

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Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

FRONT WHEEL ALIGNMENT — REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Toyota Cressida	1978 - 1981	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Cressida	1983 - 1984	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Cressida Wagon	1983 - 1988	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Cressida	1985 - 1988	X		-	Non Adj.	45-6001 45-6002	-		- / 0.20 0.20	-	Non Adj.	Fac Adj.	-		- / -
Toyota Cressida	1989 - 1992	X		-	Non Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Toyota Echo	2000 - 2005		X	- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1500 SERIES[1]	Non Adj. 46-1500 SERIES[1]	127		0.60 / - 0.60
Toyota FJ Cruiser	2007 - 2009		X	- Greaseable Cam Bolt	Fac Adj. 44-827	Fac Adj. 44-827	- 99		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota FJ Cruiser	2010 - 2014		X	- Greaseable Cam Bolt	Fac Adj. 44-828	Fac Adj. 44-828	- 99		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Highlander 2WD/4WD	2001 - 2007	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Toyota Highlander FWD/AWD	2008 - 2012	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Axis Cam	41-151 41-217	Fac Adj.	74 75		0.30 / - 0.30
Toyota Highlander FWD/AWD	2013 - 2020	X		Axis Cam	41-217	Non Adj.	75		0.30 / -	-	Non Adj.	Fac Adj.	-		- / -
Toyota Land Cruiser	2008 - 2020		X	Cam Bolt	44-838	44-838	101		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Matrix AWD	2003 - 2013		X	- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Non Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Toyota Matrix FWD	2003 - 2013	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Toyota MR-2	1985 - 1989	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30	- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Fac Adj.	- 74 75		- / - 0.30 0.30
Toyota MR-2	1991 - 1995	X		Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Toyota MR2 Spyder	2000 - 2006	X		Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	Magna Cam Axis Cam	41-149 41-215	Fac Adj.	74 75		0.30 / - 0.30
Toyota Paseo	1992 - 1998		X	Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Pickup 4WD	1969 - 1995		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Pickup/cab and chassis 2WD	1973 - 1995		X	- Shim	Fac Adj. CC	Fac Adj.	- 113		- / - -	-	Non Adj.	Non Adj.	-		- / -
Toyota Previa 2WD/4WD	1991 - 1997		X	Magna Cam Wedge Kit Axis Cam	41-151 41-305 41-217	Non Adj.	74 76 75		0.30 / - 0.30 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Prius	2001 - 2009	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Non Adj.	- 74 75		- / - 0.30 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Toyota Prius	2010 - 2015	X		Axis Cam Magna Cam	41-217 41-151	Non Adj.	75 74		0.30 / - 0.30	Shim	46-1500 SERIES[1]	46-1500 SERIES[1]	127		0.60 / 0.60
Toyota Prius	2016 - 2020	X		Axis Cam Magna Cam	41-217 41-151	Non Adj.	75 74		0.30 / - 0.30	Shim	Non Adj.	46-455	-		- / 0.50
Toyota Prius C	2012 - 2016	X		Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Prius V	2012 - 2017	X		Axis Cam Magna Cam	41-217 41-151	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota RAV-4 2WD/4WD	1996 - 2000	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Non Adj.	- 74 75		- / - 0.30 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Toyota RAV-4 2WD/4WD	2001 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Non Adj.	- 74 75		- / - 0.30 0.30	- Greaseable Cam Bolt	Fac Adj. 46-432	Fac Adj. 46-432	- 121		- / - 0.30 / 0.30

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				FRONT WHEEL ALIGNMENT						REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Toyota RAV-4 2WD/4WD	2006 - 2010	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Non Adj.	- 74 75		- / - 0.30 0.30	- Rear Arm Rear Arm	Fac Adj. 46-2236L 46-2236R	Fac Adj. 46-2229	- 140 140		- / - 0.30 / 0.50 0.30
Toyota RAV-4 2WD/4WD	2011 - 2020	X		- Magna Cam Axis Cam	Fac Adj. 41-151 41-217	Non Adj.	- 74 75		- / - 0.30 0.30	- Rear Arm Rear Arm	Fac Adj. 46-2236L 46-2236R	46-171	- 140 140		- / 0.30 0.30 0.30
Toyota Rav4 Hybrid	2016 - 2020	X		Cam Bolt Magna Cam	41-217 41-151	Fac Adj.	75 74		0.30 / - -	Rear Arm Rear Arm	46-2236L 46-2236R	46-171	140 140		0.60 / 0.30 0.60
Toyota Sequoia 2WD/4WD	2001 - 2007		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Sequoia 2WD/4WD	2008 - 2020		X	Greaseable Cam Bolt	44-838	44-838	101		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Sienna FWD	1998 - 2010	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1120[1]	46-1120[1]	126		0.60 / 0.60
Toyota Sienna AWD	2004 - 2010	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Sienna FWD/AWD	2011 - 2020	X		Magna Cam Axis Cam	41-151 41-217	Non Adj.	74 75		0.30 / - 0.30	Shim	46-1120[1]	46-1120[1]	126		0.60 / 0.60
Toyota Starlet	1981 - 1984	X		-	Non Adj.	45-6001 45-6002	-		- / 0.20 0.20	-	Non Adj.	Non Adj.	-		- / -
Toyota Supra	1987 - 1998	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Toyota T100 2WD	1993 - 1998		X	- Shim	Fac Adj. CC	Fac Adj. CC	- 113		- / - - / -	-	Non Adj.	Non Adj.	-		- / -
Toyota T100 4WD	1993 - 1998		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Tacoma 2WD/4WD	1995 - 2004		X	Shim Greaseable Cam Bolt	CC 44-826	Fac Adj. 44-826	113 99		- / - 0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Tacoma 2WD/4WD	2005 - 2015		X	Greaseable Cam Bolt	44-827	44-827	99		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Tacoma 2WD/4WD	2016 - 2020		X	Greaseable Cam Bolt	44-828	44-828	99		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Tercel FWD	1983 - 1986	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Fac Adj.	- 74 75		- / - 0.30 0.30	Magna Cam Ball Joint	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - -
Toyota Tercel 4wd	1983 - 1986	X		- Magna Cam Axis Cam	Fac Adj. 41-149 41-215	Fac Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Toyota Tercel FWD	1987 - 1999		X	Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Tercel Wagon FWD	1987 - 1988		X	Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	Axis Cam Magna Cam	41-212 41-147[3]	Fac Adj.	75 74		0.30 / - 0.30
Toyota Tercel Wagon 4wd	1987 - 1988		X	Magna Cam Axis Cam	41-149 41-215	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Tundra 2WD/4WD	2000 - 2006		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Tundra 2WD/4WD	2007 - 2020		X	Greaseable Cam Bolt	44-838	44-838	101		0.30 / 0.30	-	Non Adj.	Non Adj.	-		- / -
Toyota Van 2WD/4WD	1984 - 1989		X	-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Toyota Venza	2009 - 2015	X		Axis Cam Magna Cam	41-217 41-151	Non Adj.	75 74		0.30 / - 0.30	Axis Cam Magna Cam	41-217 41-151	Fac Adj.	75 74		0.30 / - 0.30
Toyota Yaris	2007 - 2019	X		Axis Cam Magna Cam	41-215 41-149	Non Adj.	75 74		0.30 / - 0.30	Shim	46-1500[1]	46-1500[1]	127		0.60 / 0.60
Toyota Yaris iA	2017 - 2019	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
VOLKSWAGEN															
Volkswagen Atlas	2018 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen Beetle	1998 - 2010	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volkswagen Beetle (w/ beam type rear suspension)	2011 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	46-456	46-456	124		0.30 / 0.30
Volkswagen Cabrio	1995 - 2002	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -

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FRONT WHEEL ALIGNMENT

REAR WHEEL ALIGNMENT

MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Volkswagen Cabriolet	1985 - 1993	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen CC	2009 - 2017	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen Corrado	1990 - 1995	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen Dasher	1974 - 1981	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen Eros	2007 - 2016	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen Eurovan	1992 - 2009	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volkswagen Fox	1987 - 1993	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen GLI	2010	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen Golf & GTI	1985 - 1998	X		- Magna Cam Axis Cam Performance Kit	Fac Adj. 41-147[3] 41-212 41-1450	Non Adj.	- 74 75 79		- / - 0.30 0.30 -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen Golf	1985 - 1998	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Volkswagen Golf & GTI	1999 - 2006	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volkswagon Golf (Incl. Multi Link Suspension)	1999 - 2012	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Volkswagen Golf & GTI	2007 - 2012	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volkswagen Golf & GTI	2013 - 2014	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volkswagen Golf Sportswagon	2015 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	46-456	46-456	124		0.30 / -
Volkswagen GTI	2006 - 2019	X		-	Non Adj.		-		-						
Volkswagen GTI	2010 - 2014	X		-	Non Adj.	Non Adj.	-		- / -	Cam Bolt	46-456	46-456	124		0.30 / 0.30
Volkswagen Jetta	1980 - 1999	X		- Magna Cam Axis Cam Performance Kit	Fac Adj. 41-147[3] 41-212 41-1450	Non Adj.	- 74 75 79		- / - 0.30 0.30 -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen Jetta A4	1999 - 2010	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volkswagen Jetta (A5 & A6) w/ Multi-Link Rear Susp.	2005 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Volkswagen Passat	1990 - 1997	X		- Magna Cam Axis Cam Performance Kit	Fac Adj. 41-147[3] 41-212 41-1450	Non Adj.	- 74 75 79		- / - 0.30 0.30 -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen Passat	1998 - 2005	X		Control Arm W/BJ -	41-8326 41-8326-3	41-8326	85 85		0.07 / 0.70 -	Shim	46-1500 SERIES[1]	Fac Adj. 46-1500 SERIES[1]	127		0.60 / - 0.60
Volkswagen Passat	2006 - 2010	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Volkswagen Passat	2011 - 2020	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Volkswagen Phaeton	2004 - 2006	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen Quantum	1982 - 1988	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen Rabbit	1975 - 2009	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60

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					FRONT WHEEL ALIGNMENT					REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Volkswagen Rabbit Pickup	1980 - 1983	X		-	Fac Adj.	Non Adj.	-		- / -	Shim Shim	46-1000[1] 46-2100[1]	46-1000[1] 46-2100[1]	126 130	88-343	0.60 / 0.60 0.60 / 0.60
Volkswagen Routan	2009 - 2014	X		Axis Cam Magna Cam Cam Bolt	41-214 41-157[2] 41-8249	Non Adj.	75 74 81		0.30 / - 0.30 0.30	Shim	46-1120A	46-1120A	127		0.60 / 0.60
Volkswagen Scirocco	1975 - 1988	X		- Magna Cam Wedge Kit	Fac Adj. 41-147[3] 41-300	Non Adj.	- 74 76		- / - 0.30 0.30	Shim	46-1000 SERIES[1]	46-1000[1] 46-2100[1]	126	88-343	0.60 / 0.60 0.60
Volkswagen Scirocco	1975 - 1989	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen Tiguan	2009 - 2019	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen 4WD Touareg	2004 - 2014	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volkswagen Eurovan/Vanagon	1980 - 1991	X		-	Fac Adj.	Fac Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
VOLVO															
Volvo 240	1990 - 1993	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Volvo 740	1985 - 1992	X		-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Volvo 760	1983 - 1990	X		-	Non Adj.	Fac Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volvo 850 FWD/AWD	1993 - 2002	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Volvo 940/960 w/Rear Multilink	1991 - 1994	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volvo 940/960 w/o Multilink	1991 - 1995		X	-	Non Adj.	Fac Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Volvo 940/960 W/Mink Susp	1995	X		-	Fac Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volvo C30	2008 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	Fac Adj.	134		1.20 / -
Volvo C70	1998 - 2005	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Volvo C70	2006 - 2013	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	Fac Adj.	134		0.90 / -
Volvo S40/V40	2000 - 2004	X		Magna Cam Axis Cam	41-147[3] 41-212	Non Adj.	74 75		0.30 / - 0.30	-	Fac Adj.	Fac Adj.	-		- / -
Volvo S40	2005 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	Fac Adj.	134		1.20 / -
Volvo S60/AWD	2001 - 2007	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Volvo S60 W/Sport	2008 - 2009	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Volvo S60	2011 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volvo S70	1998 - 2000	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Volvo S80	1999 - 2006		X	Magna Cam Axis Cam	41-158[2] 41-214	Non Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Non Adj.	-		- / -
Volvo S90	1997 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Fac Adj.	-		- / -
Volvo S90/V90	1998	X		Magna Cam Axis Cam	41-147[3] 41-212	Fac Adj.	74 75		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Volvo V50	2005 - 2011	X		-	Non Adj.	Non Adj.	-		- / -	Rear Arm	46-2188	Fac Adj.	134		1.20 / -
Volvo V60	2013 - 2020	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volvo V70	1998 - 2000	X		- Magna Cam Axis Cam	Fac Adj. 41-147[3] 41-212	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

		FRONT WHEEL ALIGNMENT								REAR WHEEL ALIGNMENT					
MODEL	YEAR	TOTAL	THRUST	ADJ. METHOD	CAMBER PART #	CASTER PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL	ADJ. METHOD	CAMBER PART #	TOE PART #	PRO PAGE NO.	SPECIAL TOOL OR PRODUCT	EST. INSTALL HOURS PER WHEEL
Volvo V70	**2001 - 2007**	X		- Magna Cam Axis Cam	Fac Adj. 41-158[2] 41-214	Non Adj.	- 74 75		- / - 0.30 0.30	-	Non Adj.	Fac Adj.	-		- / -
Volvo V70	**2008 - 2010**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volvo V90	**1997 - 1998**	X		Axis Cam	41-212	Non Adj.	75		0.30 / -	-	Non Adj.	Non Adj.	-		- / -
Volvo XC60	**2010 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
Volvo XC70	**2003 - 2007**	X		Axis Cam	41-214	Non Adj.	75		0.30 / -	-	Fac Adj.	Non Adj.	-		- / -
Volvo XC70	**2008 - 2016**	X		-	Non Adj.	Non Adj.	-		- / -	-	Fac Adj.	Non Adj.	-		- / -
Volvo XC90	**2003 - 2014**	X		Axis Cam Magna Cam	41-214 41-158[2]	Non Adj.	75 74		0.30 / - 0.30	-	Non Adj.	Fac Adj.	-		- / -
Volvo XC90	**2016 - 2020**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Fac Adj.	-		- / -
YUGO															
Yugo GV/GVL/GVS/GVX	**1986 - 1992**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -
Yugo GV/GVL/GVS/GVX	**1986 - 1992**	X		-	Non Adj.	Non Adj.	-		- / -	-	Non Adj.	Non Adj.	-		- / -

Note: Front toe is always adjustable; when front adjusters are called for, they are primarily for the adjustment of camber.
Note: When both "Factory Adjustable" and a product number appear in the same application, the factory provided adjustment is usually difficult to do and/or gives a limited amount of change.

1. Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur. If equipped with ABS check for proper clearances. See part number 46-2450A on page 141
2. For models with either slotted or unslotted strut brackets.
3. For models with slotted strut brackets only.
4. For models without slotted strut brackets.
5. For models WITH or WITHOUT ABS brakes and 10 1/2" rotors
6. On 1987-91 GM models, aftermarket cams are required for camber/caster adjustment. On 1992 and newer models, cam bolts are factory installed.
7. Adjustable cam replaces factory locking plate.
8. For models without factory provided cam bolts
9. For truck models with rear camber

CAMBER ADJUSTING "MAGNA CAM" BOLT KITS

The fast and easy alternative to adjust camber on vehicles utilizing standard 2-bolt (upper and lower) strut-to-knuckle mounting bolt design. This unique design incorporates an offset internal sleeve working in conjunction with a full-size, high-strength OE-diameter bolt (with matching internal offset), which allows camber to be increased or decreased by a simple turn of the bolt. Magna Cam allows the technician to accurately adjust camber with weight of vehicle on front wheels.

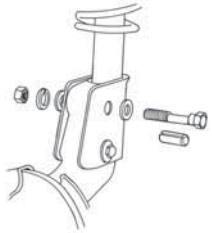
Adjustment Range: ±1.75°
Quantity: Pair
Sides Adjusted: 2

12mm 12.9 High-Strength Bolts

41-144 *Aveo, Alero, Cutlass, Grand Am*

41-146 *Ford, Hyundai, Mazda*

41-147 *Chevrolet, Dodge, Ford, Hyundai, Isuzu, Mazda, Mercury, Mitsubishi, Nissan, Plymouth, Pontiac, Porsche, Saab, Subaru, Toyota, Volkswagen*



15mm 10.9 High-Strength Bolts

41-149 *Lexus, Toyota w/15mm strut mount bolts*

17mm 10.9 High-Strength Bolts

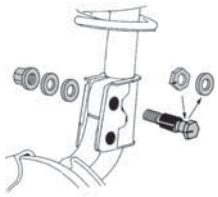
41-151 *Lexus, Toyota*

14mm 12.9 High-Strength Bolts

41-157

Chrysler, Dodge, Plymouth vans and mid-size vehicles

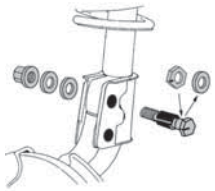
41-158 *Buick, Chevrolet, Infiniti, Oldsmobile, Pontiac, Saturn, Subaru, Volvo*



16mm 10.9 High-Strength Bolts

41-159

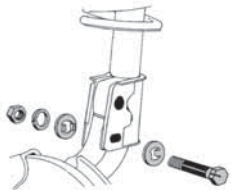
Chrysler, Mitsubishi, Honda, Acura



16mm 10.9 High-Strength Bolts

41-160 With adapter for slotted struts

Buick, Cadillac, Chevrolet, Chrysler, Dodge, Oldsmobile, Pontiac



41-140A

MAGNA CAM BOLT ASSORTMENT
Consists 2 each of the following :
41-147,41-149, 41-151, 41-157, 41-158, 41-160

See Application Guide, pages 12-73, for specific models and years

AXIS CAM

Camber Adjusting Cam Bolt System

- Makes non-adjustable vehicles fully adjustable for camber
- Unique design allows fast and easy "on-vehicle" adjustments
- Works with OE bolt system. No cutting, drilling or modifications of any kind
- Makes vehicle permanently adjustable for camber
- Bolt head marked + and - for easy orientation
- All sizes made from grade 12.9 high-strength steel

*Just 6 part numbers fit all vehicles with strut-to-knuckle mounting bolts

Part Number	Make/Model	Size
41-210	*Fiat 500*	10mm
41-212	*Chevrolet, Ford, Saab, Toyota, Nissan Volvo, Cadillac, Hyundai, Isuzu*	12mm
41-214	*Acura, Dodge, Honda, Saturn, Toyota Infinity, Plymouth, Mitsubishi, Chrysler 200*	14mm
41-215	*Goe, Lexus, Toyota*	15mm
41-216	*Acura, Buick, Chevrolet, Honda, Lincoln, Mercury, Ford, Dodge, Pontiac* With adapter for slotted struts	16mm
41-217	*Lexus, Toyota*	17mm
41-218	*Acura, Honda*	18mm

Adjustment Range: ±1.75°
Quantity: Pair
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

41-210A **AXIS CAM BOLT ASSORTMENT**
Consists of the following :
41-212, 41-214 Quantity of 4
41-215, 41-217, 41-216 Quanity of 2

FRONT WHEEL

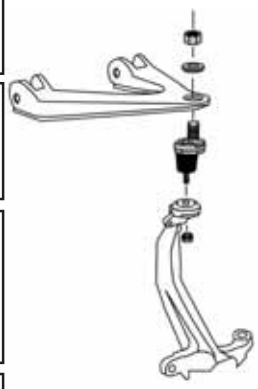
CAMBER/CASTER ADJUSTABLE BALL JOINTS

These ball joints provide a fast, easy and adjustable solution to the problem of non-adjustable front suspensions found on many of today's most popular vehicles.

- Unique design allows fast and easy "on-vehicle" adjustment
- Future adjustments are easily made
- Adjustable offset design means fewer part numbers per application.

See page 146 for adjusting wrench **#88-1304**

Part Number	Make/Model	Range
41-229 *Upper*	***Chrysler Cirrus and Sebring Convertible*** *1995-2010 2w/d*	±.5°
41-230 *Upper*	***Dodge Stratus*** *1995-2006* ***Plymouth Breeze*** *1996-2000* ***Chrysler Sebring*** *1996-2010*	±1°
41-232 *Lower*	***Dodge Magnum 2WD*** *2005-2014* ***Dodge Charger 2WD*** *2009-2016* ***Dodge Challenger 2WD*** *2008-2016* ***Chrysler 300C 2WD*** *2004-2016*	±.75°
41-236 *Upper*	***Ford Fusion*** *2006 -2012* ***Mazda 6 Sedan*** *2003-2014* ***Lincoln Zephyr/MKZ*** *2006-2012* ***Mercury Milan*** *2006-2010*	±1°



Quantity: Each
Sides Adjusted: 1

41-300

FRONT CAMBER ADJUSTING WEDGE KIT

These kits are a real time-saver when additional camber is needed on vehicles with two bolt strut flange mounting.

Adjustment Range: +2°
Quantity: Pair
Sides Adjusted: 2

41-301

Vehicles with 14mm strut-to-knuckle mounting bolts

41-305

Vehicles with 16mm strut-to-knuckle mounting bolts

41-312

Vehicles with 12mm strut-to-knuckle mounting bolts

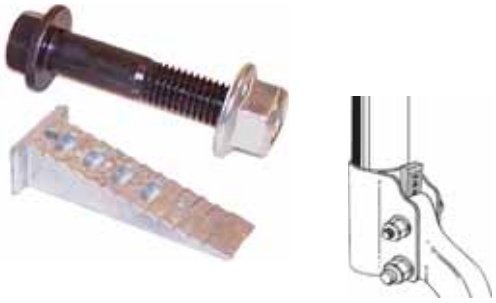
Adjustment Range: +2°
Quantity: Pair
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

41-307

FORD MUSTANG FRONT CAMBER ADJUSTING WEDGE KIT
1979-2004

There are many instances where the factory camber adjustment does not give enough positive camber change. This kit can be used by itself or with the factory adjustment.



Adjustment Range: +1.5°
Quantity: Pair
Sides Adjusted: 2

41-308

FORD ESCAPE FRONT CAMBER ADJUSTING WEDGE KIT

Ford Escape *2001-2012*
Mazda Tribute *2001-2011*

Adjustment Range: +1.5°
Quantity: Pair
Sides Adjusted: 2

41-310

FORD/LINCOLN FRONT CAMBER ADJUSTING WEDGE KIT

Ford Fairmont *1978-1981*
Ford Granada *1981-1982*
Ford Thunderbird *1980-1988*
Lincoln Continental *1982-1987*
Lincoln Mark VII *1984-1992*

Adjustment Range: +2°
Quantity: Pair
Sides Adjusted: 2

41-314

MUSTANG FRONT CAMBER ADJUSTING WEDGE KIT

FORD MUSTANG
2005-2014

Adjustment Range: +1.5°
Quantity: Kit
Sides Adjusted: 2

41-325

FRONT CASTER ADJUSTING CAM BOLT

Ford Mustang *2005-2014*

- Allows caster adjustment for non-adjustable OEM design
- No modification necessary
- Quick and easy replacement of OE bolts

Adjustment Range: ±.5° Caster
Quantity: Pair
Sides Adjusted: 2

41-326

FRONT CAMBER/CASTER ADJUSTING CAM BOLT KIT

Ford Mustang *2005-2014*

- Allows camber and/or caster adjustment for non-adjustable OEM design
- Quick and easy replacement of OE bolts
- Combination of two 41-325 cam bolts and two 14mm "Axis-Cam" cam bolts

Adjustment Range: ±1.5°Camber, ±.5°Caster
Quantity: Kit
Sides Adjusted: 2

41-530
41-532

Honda/Acura *Many Models, See application guide, pages 12-73 for specific vehicles*

41-550

Mitsubishi Eclipse (FWD,AWD), Galant, Chrysler Sebring Coupe, Hyundai Sonata, Dodge Avenger (FWD,AWD), Eagle Talon (FWD,AWD)

FRONT CAMBER/CASTER ADJUSTABLE UPPER BALL JOINT

These ball joints provide a fast, easy and adjustable solution to the problem of non-adjustable front suspensions found on many of today's most popular vehicles.

- Unique design allows fast and easy "on-vehicle" adjustment
- Future adjustments are easily made
- Adjustable offset design means fewer part numbers per application.
- Greaseable Design

See page 146 for adjusting wrench **#88-1304**

Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

NEW

41-541

FRONT CAMBER ADJUSTABLE LOWER BALL JOINT

These ball joints provide a fast, easy and adjustable solution to the problem of non-adjustable front suspensions found on many of today's most popular vehicles.

- Unique design allows fast and easy "on-vehicle" adjustment
- Future adjustments are easily made
- Adjustable offset design means fewer part numbers per application.
- Greaseable Design

Patent pending

Honda Accord *2016-2019*
Honda Civic *2016-2019*

Adjustment Range: +1°
Quantity: Each
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

41-545

FRONT ADJUSTABLE CAMBER CONTROL ARM MOUNTS WITH RUBBER BUSHING

Acura:	*Honda:*
Integra *1990-2001*	***Accord*** *1990-1997*
Vigor *1992-1994*	***Civic*** *1980-1990*
CL *1997-1999*	***CRX*** *1988-1991*
RL *1996-2008*	***Del Sol*** *1993-1997*
TL *1995-1998*	***Prelude*** *1992-1996*
	Odyssey *1995-1998*

Adjustment Range: +1.75°
Quantity: Pair
Sides Adjusted: 1

MAGNA CAM DOUBLE ECCENTRIC BOLT McPHEARSON STRUT SUSPENSION

The perfect solution for lowered vehicles ***with extreme camber correction needs.***

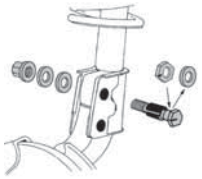
Fast: Simply replace **BOTH** strut mounting bolts with Magna Cams and adjust

Easy: No cutting, drilling or modifications of any kind

Economical: Easy installtion saves time and money

Accurate: Camber can be adjusted to exact specifications (while weight is on front wheels) with the turn of a wrench

Versatile: Fits either right or left side, front or rear of vehicles



41-1450	**12mm**	**41-1510**	**17mm**
41-1460	**12mm**	**41-1570**	**14mm**
41-1470	**12mm**	**41-1580**	**14mm**
41-1490	**15mm**	**41-1590**	**16mm**

XTRARANGE

Adjustment Range: ±2.5°
Quantity: Kit
Sides Adjusted: 2

41-2001

FRONT "LH" MODEL REPLACEMENT SLEEVE
DODGE/CHRYSLER 1998-2004

This adjustable sleeve is designed to replace the knurled adjusting sleeve, and can be adjusted with a hex wrench. The sleeve is recommended when the existing sleeve has been damaged or if the tie rod end is being replaced, so adjustments can be made more easily.

Quantity: Each
Sides Adjusted: 1

41-4607

FRONT CAMBER ADJUSTABLE CORRECTION KIT

Taurus/Sable *1996-2006*

41-4609

Ford Windstar *1995-2003*
Ford Freestar *2004-2007*
Mercury Monterey *2004-2007*

US Patent # 6,257,601

This kit allows accurate adjustments in .25° increments, installs in just minutes, is adjustable for future alignments, helps restore original ride height, and can be used on either side of vehicle.

Adjustment Range: +1°
Quantity: Kit
Sides Adjusted: 2

41-4611

FRONT CAMBER ADJUSTABLE CORRECTION KIT

Ford Focus *2000-2011*
Ford Transit Connect *2010-2014*

US Patent # 6,257,601

- Accurate adjustment in .25° increments — no guesswork
- Installs in minutes
- Adjustable for future alignments

Adjustment Range: +1°
Quantity: Kit
Sides Adjusted: 2

41-8243

FRONT CAMBER ADJUSTING CAM BOLT

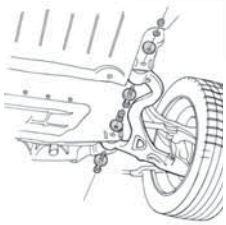
CHRYSLER/FORD
Chevrolet Corvette *1963-1982*
Dodge B100/200/300/500 *1979-1983*
Dodge Dart *1965-1976*
Dodge Ramcharger *1977-1993*
Ford Granada *1975-1980*
Lincoln Versailles *1977-1980*
Plymouth Trailduster *1977-1981*

Adjustment Range: ±2.5°
Quantity: Pair
Sides Adjusted: 1

41-8244

FRONT CAMBER ADJUSTING CAM BOLT KIT

Ford Thunderbird *2002-2005*
Jaguar S *2000-2008*
Lincoln LS *2000-2006*



Adjustment Range: ±1.5° Camber ±2° Caster
Quantity: Kit
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

41-8245 FRONT CAMBER ADJUSTING CAM BOLT

Mid-size Buick, Chevrolet, Oldsmobile, Pontiac

Various mid size Fwd GM vehicles
1980's - 1990's
See application guide, pages 12-73
for specific molels and years

41-8246 FRONT CAMBER ADJUSTING CAM BOLT

GM S-10 and S-15 Pickup, Jimmy and Blazer *1983-2004*

Sides Adjusted: 1

41-8247 FRONT CAMBER ADJUSTING CAM BOLT

Riviera, Toronado, Eldorado and Seville

E body Fwd models

Adjustment Range: ±2.25°
Quantity: Pair
Sides Adjusted: 2

41-8249 FRONT CAMBER ADJUSTING CAM BOLT

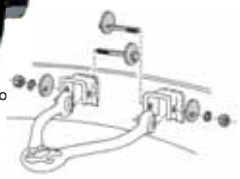
Dodge Caravan *1984-2016*
Chrysler Town and Country *1990-2014*
Various Chrysler models *1984 and Newer fwd (except 1978-1990 Omni and Horizon)*

Adjustment Range: ±2.25°
Quantity: Pair
Sides Adjusted: 2

41-8250

FRONT CAMBER/CASTER CAM BOLT KIT

Chevrolet and GMC 1/2,3/4, 1 ton 4WD and 2WD Pick-Ups *1988-2000*
Suburban *1992-1999*



Adjustment Range: ±2.25°
Quantity: Kit
Sides Adjusted: 2

Available in GREASEABLE 41-8272

41-8251

FRONT CAMBER/CASTER CAM BOLT KIT

GM replacement bolt kit with Quick Cams is a direct replacement and will restore the factory adjustment. On many models this kit will greatly improve accessibility for easy adjustment.

Chevrolet Tahoe *1999-2016*
Chevrolet Express Van *2003-2017*
Chevrolet Silverado *1999-2016*
Chevrolet Suburban 1500 *1999-2016*
GMC Sierra *1999-2017*
Youkon XL 2WD *1999-2017*
Hummer H2 *2003-2009*

Adjustment Range: ±1.5‘
Quantity: Kit
Sides Adjusted: 2

Available in GREASEABLE 41-8262

FRONT WHEEL

41-8255

REAR DIFFERENTIAL CAM BOLT

- Accurately adjusts and maintains proper drive line angle
- Required for vehicles where lift kits have been installed

Jeep Wrangler TJ *1997-2006*

Adjustment Range: ±2°
Quantity: Pair
Sides Adjusted: 2

41-8256

FRONT CASTER/PINION CAM BOLT

Makes vehicle fully adjustable for caster and pinion angle.

Jeep:

Wrangler TJs *1997-2006*
Grand Cherokee *1993-1998*
Ram Trucks (36mm cams) *1994-1998*

Adjustment Range: ±3°
Quantity: Pair
Sides Adjusted: 2

41-8257

REAR PINION AND FRONT CASTER AND PINION ANGLE CAM BOLT

Jeep Wrangler JK *2007-2016*
Buick Enclave *2008-2017*
Chevrolet Traverse *2009-2017*
GMC Acadia 2wd/4wd *2007-2014*
Saturn Outlook *2007-2010*

NEW

41-8258

GREASEABLE CASTER/PINION ANGLE BOLT

- Must have for lifted vehicles
- Pro-Series Greaseable for long service life

Jeep JL *2018 - 2020*

Adjustment Range: ±3°
Quantity: Pair
Sides Adjusted: 2

41-8259

FRONT CAMBER/CASTER CAM BOLT

Replaces original OE inner bolt on lower control arm.

Chrysler 300C *2004-2016 (RWD)*
Dodge Challenger *2008-2016 (RWD)*
Dodge Charger *2006-2016 (RWD)*

41-8260

Chrysler 300C *2005-2016 (AWD)*
Dodge Charger *2006-2016 (AWD)*
Dodge Magnum *2005-2008 (AWD)*
Dodge Challenger *2008-2016 (AWD)*

Adjustment Range: ±.3°
Quantity: Each
Sides Adjusted: 1

Also Available: **41-8259-2 & 41-8260-2** Set of 2, adjusts both sides

See Application Guide, pages 12-73, for specific models and years

41-8262

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- GM Greaseable replacement bolt kit with Quick Cams is a direct Replacement and will restore the factory adjustment.
- On many models this kit will greatly improve accessibility for easy Adjustment
- Greaseable allowing for ease of future adjustment

Chevrolet Tahoe *2000-2016*
Chevrolet Express Van *2003-2016*
Chevrolet Silverado 1500 *1999-2016*
Chevrolet Silverado 2500/3500 *1999-2010*
Chevrolet Suburban 1500 *2000-2016*
GMC Envoy *2003-2009*
GMC Sierra 1500 *1999-2016*
GMC Sierra 2500/3500 *1999-2010*
Youkon XL 2WD *2000-2016*
Hummer H2 *2003-2009*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

41-8264

FRONT CAMBER/CASTER CAM BOLT

- Makes non adjustable vehicles adjustable
- Replaces original OE inner bolt on lower control arm
- Sold per pair (Bolt & hardware for both sides of vehicle)

Mercedes
C-Class W204 *2008-2014*
CL-Class C216 *2007-2014*
CLK-Class C209 *2003-2009*
CLS-Class C218 *2012-2014*
E-Class W211 *2003-2008*
GLK-Class X204 *2010-2015*
S-Class W220 *2000-20006*
SLK-Class R172 *2012-2016*

Adjustment Range: ± 0.3°
Quantity: Pair
Sides Adjusted: Both sides adjusted either for Camber or Caster. To Adjust both Camber and Caster, two kits need to be ordered for both sides.

41-8265

FRONT CAMBER/CASTER CAM BOLT

- Makes non adjustable vehicles adjustable
- Replaces original OE inner bolt on lower control arm
- Sold per pair (Bolt & hardware for both sides of vehicle)

Mercedes
C-Class W202/S202 *1994-2000*
CL-Class C215 *2000-2006*
CLK-Class C208 *1998-2002*
CLK-Class AZ08 Cabriolet *2003*
SLK-Class R170 *1997-2004*

Adjustment Range: ± 0.3°
Quantity: Pair
Sides Adjusted: Both sides adjusted either for Camber or Caster. To Adjust both Camber and Caster, two kits need to be ordered for both sides.

41-8267

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Provides camber and caster on vehicles with frozen OE bolts
- Included is one camber bolt and one caster bolt
- Greaseable Design

Mazda Miata MX5 *2006-2015*

Adjustment Range: ±1.0°
Quantity: Kit
Sides Adjusted: 2

Ph: 800-828-0255
fax: 888-658-6822
www.Northstarmfg.com

41-8268

FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Greaseable replacement bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable allowing for ease of future adjustment and will prevent corrosion and rust
- Will remain adjustable for the life of the vehicle

Dodge Sprinter 2500 *2007-2009*
Freightliner 2500 *2007-2018*
Mercedes-Benz 2500 Sprinter *2010-2018*

Adjustment Range: ±3°
Quantity: Pair
Sides Adjusted: 2

41-8269

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Greaseable replacement bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable allowing for ease of future adjustment and will prevent corrosion and rust
- Will remain adjustable for the life of the vehicle

Nissan NV Van *2012-2018*
Nissan Titan 2WD/4WD *2017-2018*
Nissan Titan XD *2016-2018*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

41-8272

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments
- Works with OEM Cam Guide
- Allows for fast and easy on-vehicle adjustments
- Makes vehicles fully adjustable for camber and caster

Cadillac Escalade *1999-2000*
Chevrolet Astro 4WD *1990-2003*
Chevrolet Tahoe 4WD *1995-2000*
GMC Safari 4WD *1990-2005*

Adjustment Range: ±2.25°
Quantity: Kit
Sides Adjusted: 2

NEW

41-8273

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Dodge Nitro *2007-2011*
Jeep Liberty *2002-2012*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

41-8321L (LEFT SIDE)
41-8321R (RIGHT SIDE)

FRONT UPPER CONTROL ARM WITH ADJUSTABLE CAMBER/CASTER BALL JOINTS

- Quick and easy replacement of OE control arm
- Greaseable ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style Control Arm

Chrysler 300C *2004-2008*
Dodge Challenger *2008*
Dodge Charger *2006-2008*
Dodge Magnum *2005-2008*
2 W/D ONLY

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

41-8322L (LEFT SIDE)
41-8322R (RIGHT SIDE)

FRONT UPPER CONTROL ARM WITH ADJUSTABLE CAMBER/CASTER BALL JOINTS

- Quick and easy replacement of OE control arm
- Greaseable ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style Control Arm

Chrysler 300 2wd *2009-2016*
Dodge Challenger 2wd *2009-2016*
Dodge Charger 2wd *2009-2016*

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

41-8326

FRONT CAMBER/CASTER UPPER CONTROL ARMS

- Direct bolt-on fit
- Adjustable, replaces nonadjustable OE control arms
- OE style bushings
- Made of high strength aluminum
- Greaseable Design
- Includes Pinch Bolt

Audi
A4, RS4, S4, A5, S5, Q5 *2009 and up*
A7, S7 *2012 and up*
SQ5 *2013 and up*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 1

Pinch bolt also available separately **41-8326-3**

41-8329L (LEFT SIDE)
41-8329R (RIGHT SIDE)

FRONT UPPER CONTROL ARM WITH ADJUSTABLE CAMBER/CASTER BALL JOINTS

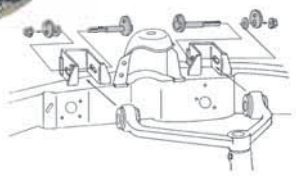
- Quick and easy replacement of OE control arm
- Greaseable ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style Control Arm

Chrysler 300 AWD *2005-2016*
Dodge Charger AWD *2005-2016*

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

42-777 FRONT CAMBER/CASTER ADJUSTING QUICK-CAMS

Quick-Cams allow adjustment of CAMBER/CASTER in just minutes. Works with OE bolts, cutting installation time by 75% when compared to cam bolt kits! Quick adjustment feature allows fast, easy and exact settings

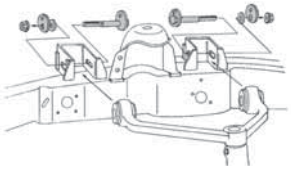


Ford F150 SuperCrew® 4WD *1997-1998*
Expedition *1997-1998*
Lincold Navigator *1997-1998*
Ford F150/F250 2WD/4WD *1997-1998*

Adjustment Range: ±2.5°
Quantity: Pair
Sides Adjusted: 1

42-778 FRONT CAMBER/CASTER CAM BOLT

Replaces factory non-adjustable system



Ford F150 SuperCrew® 4WD *1997-2003*
Expedition *1997-2002*
Lincoln Navigator *1997-2002*
Ford F150/F250 2WD/4WD *1997-2003*
Lincoln Blackwood 2WD/4WD *2002-2003*

Also available: **42-778-4** Set of 4, adjusts both sides
Available in GREASEABLE 42-781

Adjustment Range: ±2.5°
Quantity: Pair
Sides Adjusted: 1

NEW

42-781 FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Replaces factory non-adjustable system
- Greaseable to ensure anti-siezure longevity

Ford F150 SuperCrew® 4WD *2001-2003*
Lincoln Navigator 2nd design 2WD/4WD *1998-2002*
Ford F150/F250 2nd design 2WD/4WD *1997-2003*
Lincoln Blackwood 2WD/4WD *2002-2003*

Also available: **42-781-4** Set of 4, adjusts both sides

Adjustment Range: ±2.5°
Quantity: Pair
Sides Adjusted: 1

LIGHT TRUCK

See Application Guide, pages 12-73, for specific models and years

42-950 Series FRONT CAMBER/CASTER ADJUSTMENT BUSHINGS

Adjust Camber/Caster or a combination of both with these easy-to-install "Hex-Head" bushings

NOTE: Not intended for use on E250/350 models with modified chassis/suspension

Ford Bronco ll 2WD *1989-1990*
Ford Bronco ll 4WD *1990*
Ford E150/E250 2WD *1992-2015*
Ford E350/E450 2WD *1992-2019*
Ford Excursion 2WD *2000-2005*
Ford Explorer 2WD/4WD *1991-1994*
Ford F150 2WD *1987-1996*
Ford F250/F350 2WD *1987-1998*
Ford F250/F350/F450/F550 Super Duty (TIB) 2WD *1997-2020*
Ford Ranger 2WD *1989-1991*
Ford Ranger 2WD/4WD *1990-1997*
Mazda B Series P/U 2WD/4WD *1994-1997*
Mazda Navajo 2WD/4WD *1991-1994*

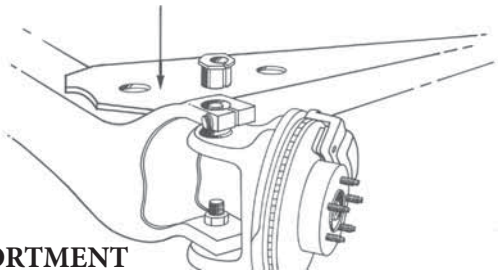
Adjustment Range:

	2WD	4WD
42-949	0°	0°
42-951	.25°	.25°
42-952	.5°	3/8°
42-953	.75°	.5°
42-954	1°	.75°
42-955	1.25°	7/8°
42-956	1.5°	1.0°
42-957	1.75°	1.25°
42-958	2°	1.5°
42-959	2.25°	1.75°
42-960	2.5°	2°

XTRARANGE For positive change only on 2WD applications. On 4WD applications, be sure to check for clearance when installed in negative position

42-961	2.75°	2.25°
42-962	3°	2.5°
42-963	3.25°	2.75°
42-964	3.5°	3°

Package Quantity: 1 per package
Sides Adjusted: 1



42-950A

CAMBER/CASTER ADJUSTMENT BUSHING ASSORTMENT

Contains 2 each size bushing **42-949** through **42-960**

LIGHT TRUCK

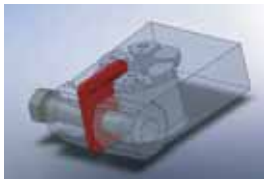
"SUPERLOK" CAMBER/CASTER ALIGNMENT BUSHING RETENTION SYSTEM

Adjustment Range	
42-970	0°
42-972	1/2°
42-974	1°
42-976	1.5°
42-978	2°
42-980	2.5°
42-982	3°

New alignment bushing with indexing slots and locking plate to prevent movement or loss of unsecured "pinchbolt" alignment bushing on **modified commercial chassis and recreational/ commercial applications**

US Patent # 8,075,005BI

Ford E150/E250/E350/E450 2WD *1992-2019*



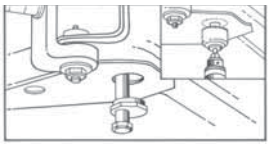
Package Quantity: 1 per package
Sides Adjusted: 1

LIGHT TRUCK

FORD CASTER ADJUSTING CAMS

42-4391 *Ranger F150 1992-1997*
42-4392 *E150/E250/E350 1992-1997*
42-4411 *F150 1980-1997*
42-4412 *E250 w/o sway bar, E350 1980-1991*
F250/F350 1981-1997
42-4413 *F150 w/sway bar 1980-1991*

DISCONTINUED



88-2228 1-1/4" drill bit is necessary for installation

Adjustment Range: ±4°
Quantity: Pair
Sides Adjusted: 2

42-4431
42-4434

FRONT SPRINTER VAN CAMBER SHIM KIT

Makes non-adjustable vehicles fully adjustable for camber

Dodge Sprinter 2003-2006
Freightliner Sprinter 2002-2006
Mercedes-Benz Sprinter 2004-2008

Adjustment Range: +1°(42-4431),+2°(42-4434)
Quantity: Kit
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

43-320A HEAVY TRUCK TANDEM SHIM ASSORTMENT

Freightliner, IHC, Kenworth, Peterbilt, Volvo White and Hendrickson Walking Beam

Assortment includes
- 6 each size of all H.D. Tandem shim
- 2 each size Kenworth spacers
- Heavy-duty metal storage case

TANDEM ALIGNMENT SHIMS

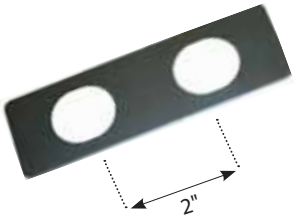
43-408	1/32”
43-409	1/16”
43-410	1/8”

Wilson Tandem shim for Hutchins suspension

12 pieces per package

TANDEM ALIGNMENT SHIMS

43-411	1/32”
43-412	1/16”
43-413	1/8”



Peterbilt air leaf adjustment shim

12 pieces per package

TANDEM ALIGNMENT SHIMS

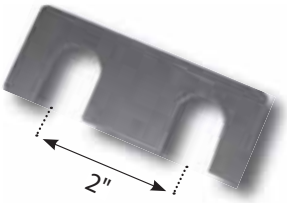
43-415	1/32”
43-416	1/16”
43-417	1/8”

Freightiner single slot adjustment shim: 1990 and newer

12 pieces per package

FREIGHTLINER DOUBLE SLOT ADJUSTMENT SHIMS

43-421	1/32”
43-422	1/16”
43-423	1/8”



12 pieces per package

FREIGHTLINER AIR GLIDE ADJUSTMENT SHIMS

43-425	1/32”
43-426	1/16”
43-427	1/8”

12 pieces per package

VOLVO/WHITE ADJUSTMENT SHIMS

43-431	1/32”
43-432	1/16”
43-433	1/8”

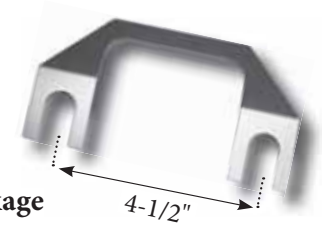
12 pieces per package

Ph: 800-828-0255
fax: 888-658-6822
www.Northstarmfg.com

NORTHSTAR MANUFACTURING COMPANY, INC.

IHC TORQUE ARM ADJUSTMENT SHIM

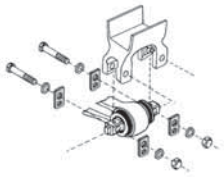
43-441	1/32”
43-442	1/16”
43-443	1/8”



12 pieces per package

HENDRICKSON ADJUSTABLE WALKING BEAM SHIM KIT

43-447



Includes (2) 5-Piece kits. Eack kit contains 2 of 1/8”, 1 of 1/16”, 2 of 1-32”

TANDEM ALIGNMENT SHIMS

Kenworth air glide 8-Bagger adjustment spacers

43-548	1/32”
43-549	1/16”
43-550	1/8”
43-551	1/4”
43-552	1/2”
43-553	3/4”
43-554	1”

6 pieces per package

FREIGHTLINER TORQUE ARM SHIMS

43-621	1/32”
43-622	1/16”
43-623	1/8”

12 pieces per package

PETERBILT/KENWORTH TANDEN AXLE SHIMS

43-641	1/32”
43-642	1/16”
43-643	1/8”

12 pieces per package

PETERBILT/KENWORTH LOW AIR SHIMS

43-645	1/32”
43-646	1/16”
43-647	1/8”

12 pieces per package

INTERNATIONAL TORQUE ARM SHIMS

43-651	1/32”
43-652	1/16”
43-653	1/8”

12 pieces per package

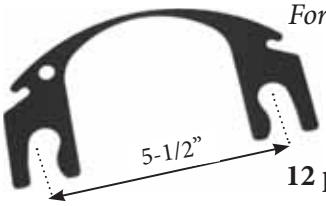
HEAVY TRUCK

See Application Guide, pages 12-73, for specific models and years

HENDRICKSON (HTB) TORQUE ARM SHIM

43-661	1/32”
43-662	1/16”
43-663	1/8”

International and Spartan HTB-400 Suspension: For 2007 and up



12 pieces per package

HENDRICKSON (HTB) TRACK BOX SHIM KIT

43-674

International and Spartan HTB-400 Suspension: For 2007 and up

Package of 5 shims Including:

Thickness	Qty
1/32”	2
1/16”	1
1/8”	2

43-680A HENDRICKSON (HTB) TRACK BOX SHIM STARTER KIT

Kit services 6 or more Axles, 3 or more trucks.

Includes all of the following shims(shown below)

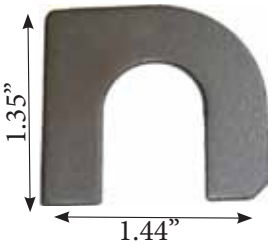
International and Spartan HTB-400 Suspension: For 2007 and up

	Thickness	Qty
43-661	1/32”	12 pieces
43-662	1/16”	12 pieces
43-663	1/8”	12 pieces
43-674	n/a	6 kits

VANHOOL SHIM LOWER CONTROL ARM & BOGEL AXLE

43-701	1/32”
43-702	1/16”
43-703	1/8”

Slot length: .95”
Slot width: .63”

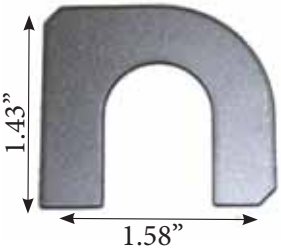


12 pieces per package

VANHOOL SHIM UPPER CONTROL ARM & BOGEL AXLE

43-707	1/32”
43-708	1/16”
43-709	1/8”

Slot length: 1”
Slot width: .75”



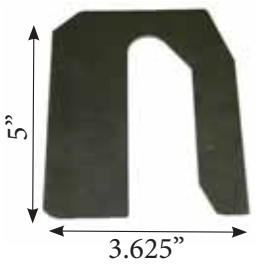
12 pieces per package

HEAVY TRUCK

PREVOST CASTER SHIMS

43-711	1/32”
43-712	1/16”
43-713	1/8”

Slot length: 4.125”
Slot width: 1.25”

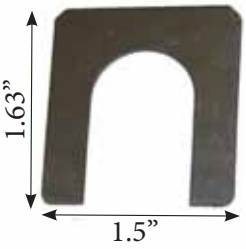


12 pieces per package

PREVOST H & XL SERIES STEER AXLES CASTER SHIMS

43-715	1/32”
43-716	1/16”
43-717	1/8”

Slot length: 1.25”
Slot width: .823”



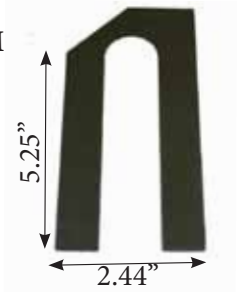
12 pieces per package

PREVOST H & XL SERIES DRIVE AXLE THRUST LINE SHIM & BOGEY AXLE SCRUB ANGLE SHIM

43-721	1/32”
43-722	1/16”
43-723	1/8”

Slot length: 4.5”
Slot width: 1.06”

12 pieces per package



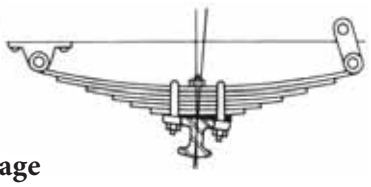
HEAVY TRUCK

43-950 Series “UNI-WEDGE” 3-IN-1 HEAVY-DUTY ZINC ALLOY CASTER WEDGE

Unique “Break-off” feature allows shim to cover spring width of 3”, 3-1/2” and 4”

43-951	.5°
43-952	1°
43-953	1.5°
43-954	2°
43-955	2.5°
43-956	3°
43-957	3.5°
43-958	4°

Length 5-3/4”



6 pieces per package

See Application Guide, pages 12-73, for specific models and years

MANGANESE BRONZE TRUCK CASTER WEDGES

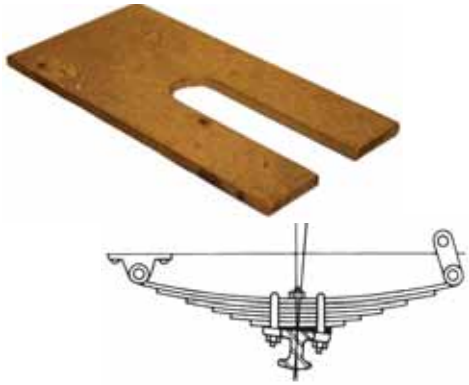
- 6 per package
- Will not break or compress
- Extremely accurate
- Clearly stamped for easy identification
- End-to-end fully 1/16" thicker than competitive products

Width 2 1/2" Length 5"

43-1040	.5°
43-1041	1°
43-1042	1.5°
43-1043	2°
43-1044	2.5°
43-1045	3°
43-1046	3.5°
43-1047	4°

Width 3" Length 6"

43-1050	.5°
43-1051	1°
43-1052	1.5°
43-1053	2°
43-1054	2.5°
43-1055	3°
43-1056	3.5°
43-1057	4°



Width 31/2" Length 6 1/4"

43-1060	.5°
43-1061	1°
43-1062	1.5°
43-1063	2°
43-1064	2.5°
43-1065	3°
43-1066	3.5°
43-1067	4°

Width 4" Length 6 1/2"

43-1070	.5°
43-1071	1°
43-1072	1.5°
43-1073	2°
43-1074	2.5°
43-1075	3°
43-1076	3.5°
43-1077	4°

ZINC DIE CAST TRUCK CASTER WEDGE

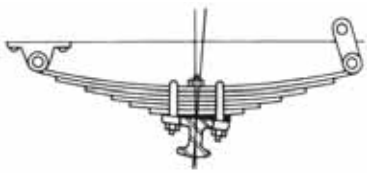
- Accurate and Economical
- 6 per package

Width 3" Length 6"

43-2050	.5°
43-2051	1°
43-2052	1.5°
43-2053	2°
43-2054	2.5°
43-2055	3°
43-2056	3.5°
43-2057	4°

Width 31/2" Length 6 1/4"

43-2060	.5°
43-2061	1°
43-2062	1.5°
43-2063	2°
43-2064	2.5°
43-2065	3°
43-2066	3.5°
43-2067	4°



Width 4" Length 6 1/2"

43-2070	.5°
41-2071	1°
43-2072	1.5°
43-2073	2°
43-2074	2.5°
43-2075	3°
43-2076	3.5°
43-2077	4°

44-240 Series

CASTER SHIMS

Provides positive caster changes on early model downsize Jeeps. Installed between lower control arm and frame bracket.

Jeep Cherokee *1984-2001*
Jeep comanchee *1986-1994*

44-240	1/32”
44-241	1/16”
44-242	1/8”

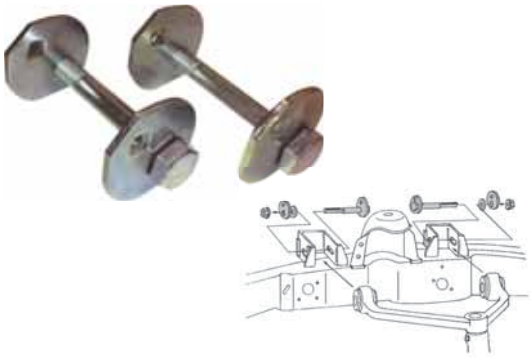
Quantity: 6 Per Package

44-766

FRONT CAMBER/CASTER CAM BOLT

For certain models where the **44-768** cam diameter is too large (varies by manufacturing facility).

Ford Explorer Sprot Trac 4WD *2001-2005*
Ford Ranger 2WD/4WD *1998-2011*



Adjustment Range: 2.5°
Quantity: Pair
Sides Adjusted: 1

44-767

FRONT CAMBER/CASTER “QUICK CAMS”

Allows adjustment of camber/caster in just minutes. Works with OE bolts - cutting installation time by 75% when compared to cam bolt kits! Quick adjustment feature allows fast, easy and exact settings.

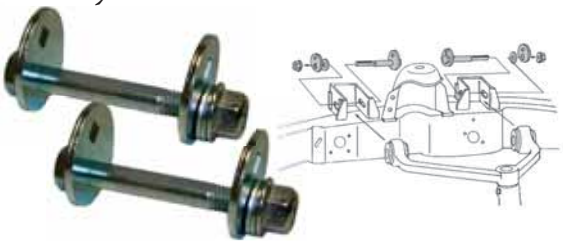
Ford Explorer 2WD *1995-2001*
Ford Explorer Sport Trac 4WD *2001-2005*
Ford Explorer/Explorer Sport 4WD *1995-2001*
Ford Ranger 2WD/4WD *1998-2011*
Mazda B Series P/U 2WD/4WD *1998-2009*
Mercury Mountaineer 2WD/4WD *1997-2001*

Adjustment Range: 2.5°
Quantity: Pair
Sides Adjusted: 1

44-768

FRONT CAMBER/CASTER CAM BOLT

Ford Explorer Sport Trac 4WD *2001-2005*
Ford Explorer/Explorer Sport 4WD *1995-2001*
Ford Explored 2WD *1995-2001*
Ford Ranger 2WD/4WD *1998-2011*
Mazda B Series P/U 2WD/4WD *1998-2009*
Mercury Mountaineer 2WD/4WD *1997-2001*



Also available : **44-768-4**
Set of 4, adjusts both sides

Adjustment Range: ±3.25°
Quantity: Pair
Sides Adjusted: 1

Available in GREASEABLE 44-836

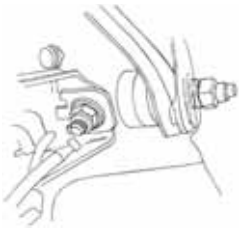
See Application Guide, pages 12-73, for specific models and years

44-769

FRONT AND REAR CAMBER/CASTER ALIGNMENT WASHERS

This heavy-duty washer is designed to replace the factory locking plate to allow easy camber/caster adjustments.

Ford Explorer 2WD/4WD *2002-2005*
Lincoln Aviator *2003-2005*
Mercury Mountaineer 2WD/4WD *2002-2005*



Also available :
44-769-24 Set of 24

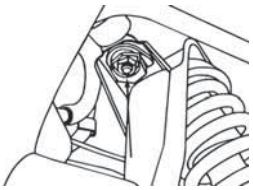
Adjustment Range: Front Camber ±.75°
Front Caster ±1.25°
Quantity: Kit Rear Camber ±.5°

44-771

FRONT CAMBER/CASTER ADJUSTMENT CAM KIT

This product replaces the OE upper control arm alignment washers and will allow full adjustment of camber and caster

Ford Explorer 2WD/4WD *2002-2005*
Lincoln Aviator *2003-2005*
Mercury Mountaineer 2WD/4WD *2002-2005*



Adjustment Range: Camber ±.75°
Quantity: Kit Caster ±1.25°
Sides Adjusted: 2

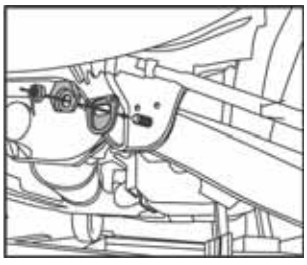
LIGHT TRUCK

44-773

REAR CAMBER ADJUSTMENT CAM KIT

This kit replaces the OE washers on the lower control arm and allows full adjustment of camber.

Ford Explorer 2WD/4WD *2002-2005*
Lincoln Aviator *2003-2005*
Mercury Mountaineer 2WD/4WD *2002-2005*



Adjustment Range: ±.5°
Quantity: Kit
Sides Adjusted: 2

44-775

REAR CAMBER/TOE ADJUSTMENT CAM NUT

- Makes non-adjustable vehicles fully adjustable for rear toe
- Unique design allows fast and easy "on-vehicle" replacement
- This kit can be used to adjust either the camber or toe

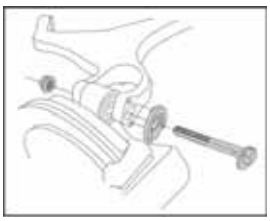
Chevrolet Equinox *2005-2017*
Pontiac Torrent *2006-2009*
Saturn Vue *2007-2009*
Suzuki XL7 *2007-2009*
GMC Terrain *2010-2014*
Chevrolet Captiva *2008-2015*

Adjustment Range: ±1°
Quantity: Pair
Sides Adjusted: 2

44-784

REAR CAMBER CAM BOLT

Ford Expedition 2WD/4WD *2003-2006*
Lincoln Navigator 2WD/4WD *2003-2006*



Adjustment Range: ±2.75°
Quantity: Pair
Sides Adjusted: 2

44-786

FRONT CAMBER/CASTER CAM BOLT KIT

This kit provides both large and small guides with a cam bolt assembly to make accurate and easy adjustment of camber and caster.

Ford Expedition 2WD/4WD *2003-2006*
Lincoln Navigator 2WD/4WD *2003-2006*

Adjustment Range: Camber ±2°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

44-789

FRONT CAMBER/CASTER CAM BOLT KIT

This kit provides steel guides with cam bolt assemblies to make accurate and easy change of camber and caster. Allows for future adjustments.

Ford F150 2WD/4WD *2004-2008*
Lincoln Mark LT 2WD/4WD *2006-2008*

Adjustment Range: Camber ±2°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

Available in GREASEABLE 44-864

44-790

FRONT CAMBER/CASTER CAM BOLT KIT

Make accurate and easy adjustment to camber and caster. allows for future adjustments.

Ford Expedition 2WD/4WD *2007-2017*
Ford F150 2WD/4WD *2009-2016*
Lincoln Navigator 2WD/4WD *2007-2017*

Adjustment Range: Camber ±2°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

44-791

FRONT CAMBER/CASTER ADJUSTMENT CAM KIT

This kit provides a steel guide with cam assemblies to make 1° camber and caster adjustment.

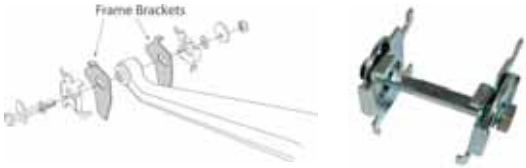
Ford Expedition 2WD/4WD *2007-2020*
Ford F150 2WD/4WD *2009-2020*
Lincoln Navigator 2WD/4WD *2007-2020*
Lincoln Mark LT *2006-2008*

Adjustment Range: Camber ±1°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

44-792

FRONT CAMBER/CASTER CAM BOLT KIT

- Fast bolt-on-installation - no drilling or modifying required
- Precise, easily-controlled adjustments
- Allows future adjustments



Dodge Ram 1500 2WD/4WD *2002-2005*

Adjustment Range: Camber ±.75°
Quantity: Kit Caster ±1.25°
Sides Adjusted: 2

Available in GREASEABLE 44-866

44-794

FRONT CAMBER CAM AND GUIDE KIT

Designed to provide adjustment where no OE adjustmnet is available

Dodge Durango *2011-2020*
Jeep Grand Cherokee *2011-2020*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

44-795

FRONT CASTER CAM NUT

Designed to provide adjustment where no OE adjustment is available

Dodge Durango *2011-2020*
Jeep Grand Cherokee *2011-2020*

Adjustment Range: ±1°
Quantity: Pair
Sides Adjusted: 2

LIGHT TRUCK

44-820

FRONT CAMBER/CASTER CAM BOLT KIT

Makes vehicle fully adjustable for camber and caster. Works with OE cam guide.

Nissan Armada 2WD/4WD *2005-2020*
Nissan Frontier 2WD/4WD *2005-2020*
Nissan Pathfinder 4WD *2005-2012*
Nissan Titan 2WD/4WD *2004-2015*
Suzuki Equator *2009-2011*

Adjustment Range: camber/caster ±2°
Quantity: Kit
Sides Adjusted: 2

Available in GREASEABLE 44-862

44-823

FRONT CASTER/PINION ANGLE CAM BOLT

Provides caster and pinion angle adjustments on vehicles with frozen OE bolts

Dodge Ram HD 2wd *2011-2013*
Dodge Ram 2500 4wd *2014-2019*
Dodge Ram 3500 2wd *2013-2019*
Dodge Ram 3500 4wd *2013-2019*

Adjustment Range: Caster/Pinon Angle ±1.5°
Quantity: Pair
Sides Adjusted: 2

Available in GREASEABLE 44-825

44-824

FRONT CASTER/PINION ANGLE CAM BOLT

- Provides caster and pinion angle adjustments for 2500/3500 Dodge trucks with no adjustment from factory or OEM frozen or corroded bolts

Dodge 2500/3500 4X4 pickups *2000-2013*

Adjustment Range: Caster ±1°-1.5°
Quantity: Pair Pinion angle ±1°-1.5°
Sides Adjusted: 2

44-825

FRONT GREASEABLE CASTER/PINION ANGLE CAM BOLT

- Provides caster and pinion angle adjustments on vehicles with frozen OE bolts
- Greaseable allowing for ease of future adjustments

Dodge Ram HD 2wd *2011-2013*
Dodge Ram 2500 4wd *2014-2019*
Dodge Ram 3500 2wd *2013-2019*
Dodge Ram 3500 4wd *2013-2019*

Adjustment Range: Caster/Pinon Angle ±1.5°
Quantity: Pair
Sides Adjusted: 2

See Application Guide, pages 12-73, for specific models and years

44-826

FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Provides caster and pinion angle adjustments on vehicles with frozen OE bolts
- Greaseable allowing for ease of future adjustments

Toyota Tacoma *1995-2004*
Toyota 4-Runner *1996-2002*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

44-827

FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Provides caster and pinion angle adjustments on vehicles with frozen OE bolts
- Greaseable allowing for ease of future adjustments

Toyota Tacoma *2005-2014*
Toyota 4-Runner *2003-2009*
Toyota FJ Cruiser *2007-2009*
Lexus GX *2003-2009*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

44-828

FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Provides caster and pinion angle adjustments on vehicles with frozen OE bolts
- Greaseable allowing for ease of future adjustments

Toyota 4-Runner *2010-2014*
Toyota FJ Cruiser *2010-2014*
Lexus GX *2010-2014*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

44-831

FRONT GREASEABLECAMBER/CASTER CAM BOLT KIT

- GM Greaseable replacement bolt kit with Quick Cams is a direct replacement and will restore the factory adjustment.
- On many models this kit will greatly improve accessibility for easy Adjustment
- Greaseable allowing for ease of future adjustment

Chevrolet Silverado 2500HD/3500 *2011-2020*
GMC Sierra 2500HD *2011-2020*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

LIGHT TRUCK

44-832

FRONT CAMBER/CASTER CAM BOLT KIT

- GM replacement bolt kit with Quick Cams is a direct replacement and will restore the factory adjustment.
- On many models this kit will greatly improve accessibility for easy Adjustment

Chevrolet Silverado 2500HD/3500 *2011-2020*
GMC Sierra 2500HD *2011-2020*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

Available in GREASEABLE 44-831

44-834

FRONT GREASEABLECAMBER/CASTER CAM BOLT KIT

- Provides camber and caster adjustments on vehicles with frozen OE bolts
- Greaseable allowing for ease of future adjustment

Dodge Dakota *2005-2011*

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

44-835

FRONT CAMBER/CASTER CAM BOLT KIT

- Provides camber and caster adjustments on vehicles with frozen OE bolts

Dodge Dakota *2005-2011*

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

Available in GREASEABLE 44-834

NEW

44-836

FRONT GREASEABLE CAMBER/CASTER CAM BOLT

- Makes vehicles fully adjustable for camber and caster
- Grease insert ensures anti-siezure longevity
- Greaseable allowing for ease of future adjustment

Ford Explored 2WD *1995-2001*
Ford Ranger 2WD/4WD *1998-2012*
Mercury Mountaineer 2WD/4WD *1997-2001*

44-836-4
Set of 4, adjusts both sides

Adjustment Range: ±3.25°
Quantity: Pair
Sides Adjusted: 1

 See Application Guide, pages 12-73, for specific models and years

44-838

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Provides caster and pinion angle adjustments on vehicles with frozen OEM bolts
- Greaseable allowing for ease of future adjustments

Lexus LX570 *2008-2019*
Toyota Tundra 2WD/4WD *2007-2020*
Toyota Sequoia 2WD/4WD *2008-2020*
Toyota Land Cruiser *2007-2018*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

NEW

44-839

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- GM Greaseable replacement bolt kit with Quick Cams is a direct replacement and will restore the factor adjustment
- Greaseable allowing for ease of future adjustments
- On many models this kit will greatly inprove accessibility for easy adjustments

Chevrolet 1500 2WD/4WD *2019-2020*
GMC Sierra 1500 2WD/4WD *2019-2020*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

NEW

44-862

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Makes vehicles fully adjustable for camber and caster
- Allows fast and easy on-vehicle adjustments
- Works with OE cam guide
- Greaseable to ensure anti-sieze longevity

Infiniti QX56 *2004-2013*
Nissan Armada 2WD/4WD *2005-2020*
Nissan Frontier 2WD/4WD *2005-2020*
Nissan Titan 2WD/4WD *2004-2015*

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

NEW

44-864

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- This kit provides steel guides with cam bolt asemblies to make accurate and easy change of camber and caster
- Grease insert ensures anti-siezure longevity

Ford F150 2WD/4WD *2004-2008*
Lincoln Mark LT 2WD/4WD *2006-2008*

Adjustment Range: Camber ±2°
Quantity: Kit Caster ±1.5°
Sides Adjusted: 2

LIGHT TRUCK

NEW

44-866

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Fast bolt-on installation, no drilling or modifying required
- Precise easily controlled adjustments
- Allows for future adjustments
- Greaseable Design

Dodge 1500 2WD/4WD *2002-2005*

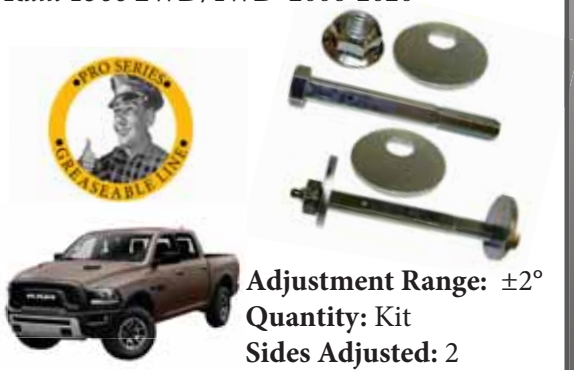
Adjustment Range: ±1°
Quantity: Kit
Sides Adjusted: 2

44-868

FRONT GREASEABLE CAMBER/CASTER CAM BOLT KIT

- Greaseable replacement bolt kit is a direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely
- 4 pack for both front wheels

Ram 1500 2WD/4WD *2006-2020*



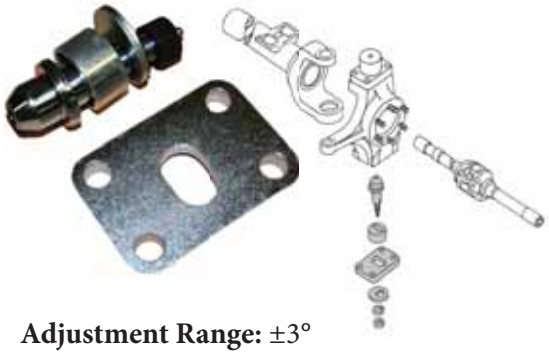
Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

44-910

LOWER CAMBER ADJUSTING ECCENTRIC KIT

Easily adjusts 1 ton 4X4's with Dana model 60 closed king pin axles

Chevrolet K Series *1961-1990*
Ford F350 *1975-1991*



Adjustment Range: ±3°
Quantity: Kit
Sides Adjusted: 1

44-2489

FRONT UPPER ADJUSTABLE CAMBER/CASTER BALL JOINT

- Designed to fit into factory upper control arm - no need to replace entire O/E control arm assembly.
- Greaseable Design

Dodge 1500 4x4 and 4x2 *2006-2019*

Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

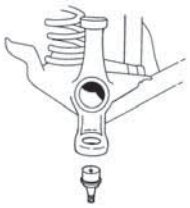
LIGHT TRUCK

See Application Guide, pages 12-73, for specific models and years

44-2490

FRONT LOWER CAMBER/CASTER ADJUSTABLE BALL JOINT

Jeep Cherokee/Wagoneer(downsize)1984-2001
Jeep Comanche 1986-1992
Jeep Grand Cherokee 1993-1998
Jeep Wrangler TJ 1996-2006
Jeep Wrangler JK 2007-2018

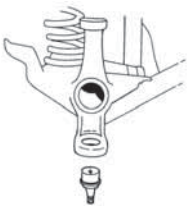


Adjustment Range: ±1.75°
Quantity: Each
Sides Adjusted: 1

44-2491

FRONT LOWER CAMBER/CASTER ADJUSTABLE BALL JOINT

Jeep Grand Cherokee 1999-2004



Adjustment Range: ±1.75°
Quantity: Each
Sides Adjusted: 1

44-2492

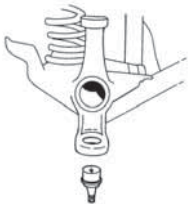
FRONT LOWER CAMBER/CASTER ADJUSTABLE BALL JOINT

Chevrolet and GMC 1/2 and 3/4 ton 4WD Pickups, blazer, Jimmy, and Suburban 1987-1991

Dodge 1/2, 3/4 and 1 ton 4WD Pickups and Ram Charger 1994-1999

Ford 1/2, 3/4 and 1 ton 4WD Pickups and Bronco through 1979

Jeep Trucks *through 1983*



Adjustment Range: ±1.75°
Quantity: Each
Sides Adjusted: 1

44-2493

FRONT UPPER CAMBER/CASTER ADJUSTABLE BALL JOINT

Jeep Commander *2006-2010*
Jeep Grand Cherokee *2005-2010*

Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

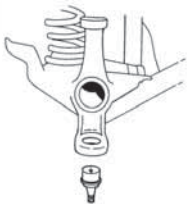
LIGHT TRUCK

44-2494

FRONT LOWER CAMBER/CASTER ADJUSTABLE BALL JOINT

This adjustable lower ball joint allows easy adjustment of camber/caster with a simple turn of the ball stud.

Dodge Ram 1500 *2000-2001*



Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

44-2495

FRONT UPPER CAMBER/CASTER ADJUSTABLE BALL JOINT

Designed to fit into factory upper control arm - no need to replace entire OE control arm assembly.

Jeep Grand Cherokee *2011-2015*
Dodge Durango *2011-2015*

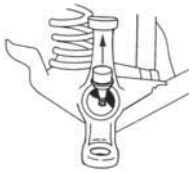
Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

44-2496

FRONT UPPER CAMBER ADJUSTABLE BALL JOINT

- Change camber with a simple turn of the ball stud!
- Greaseable Design

Dodge Ram 2500/3500 4WD *2000-2002*
Dodge Ram 2500-3500 4WD *2003-2005*
(Old Body Style)



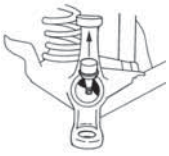
Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

44-2497

FRONT UPPER CAMBER ADJUSTABLE BALL JOINT

Dodge Ram 2500/3500 2WD/4WD *2003-2019*
Dodge Ram 2500/3500 2WD/4WD *2003-2019*

- Greaseable Design



Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

44-2498

FRONT UPPER CAMBER/CASTER ADJUSTABLE BALL JOINT

- Designed to fit into factory upper control arm. No need to replace entire OE control arm assembly.
- Greaseable Design

GM Pickups and SUVs 2500/3500 *1999-2013*
GM 1500 HD Pickups *2001-2010*

Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

44-2499

FRONT UPPER CAMBER/CASTER ADJUSTABLE BALL JOINT

- Allows for front positive or negative adjustments
- Greaseable Design

Chevrolet Silverado 1500 *1999-2006*
GMC Sierra *1999-2006*
Gm Express Van 2003-2020

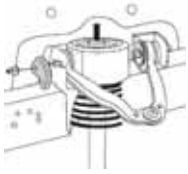
Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

44-2506

FRONT CAMBER/CASTER QUICK CAM KIT

Replace OE non-adjustable cam with quickCam, featuring easy-to-access allen wrench slot.

Chevrolet Suburban 2WD/4WD *2000-2018*
Chevrolet Tahoe 2WD/4WD *2000-2018*
GMC Yukon 2WD/4WD *2000-2018*
Chevrolet Express Van 2WD *2000-2018*
Chevrolet Express VAn 4WD *2003-2018*
Chevrolet Silverado HD 1500/2500/3500 2WD/4WD *2003-2018*
GMC 2WD Savana Van *2001-2018*



Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

44-2507

FRONT CAMBER/CASTER QUICK CAM KIT

Great for adjustments where space is limited

Chevrolet Colorado 4WD *2004-2012*
GMC Canyon 4WD *2004-2012*
Hummer H3 *2006-2010*
Isuzu I35/I28 4WD *2006*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

LIGHT TRUCK

44-2508 FRONT ALIGNMENT REPLACEMENT CAM GUIDE PIN

Fast and easy replacement of damaged or broken OE guide pins.

Chevrolet Suburban 2WD/4WD *1999-2018*
Chevrolet Tahoe 2WD/4WD *2000-2019*
GMC Yukon 2WD/4WD *2000-2019*
Chevrolet Express Van 2WD *2003-2020*
Chevrolet Express Van 4WD *2003-2020*
Chevrolet Silverado/GMC Sierra 1500/2500/3500 2WD/4WD *1999-2010*
GMC 2WD Savanda Van *2003-2019*
Chevrolet Silverado/GMC Sierra 2500/3500 *2000-2013*

Quantity: 12

44-2509 UPPER CONTROL ARM OFFSET CAMBER BUSHINGS

1/2 Ton Models - Forged Arm

Cadillac Escalade/EXT 4WD *2002-2020*
Chevrolet Tahoe 2WD/4WD *2000-2020*
Chevrolet Avalanche 1500 2WD/4WD *2002-2013*
Chevrolet Express Van 2WD/4WD *2003-2020*
Chevrolet Silverado 1500 2WD/4WD *1999-2020*
Chevrolet Suburban 1500 2WD/4WD *2000-2020*
GMC 2WD Savana Van *2003-2020*
GMC Sierra 1500 2WD/4WD *1999-2020*
GMC Yukon XL 1500 2WD *2000-2020*
GMC Yukon/Denali 2WD/4WD *2000-2020*

- OE style design - does not affect ride or handling
- Simple installation with use of special bushing adapter set **88-7950A**
- Only effective means of reclaiming lost camber

Adjustment Range: ±1°
Quantity: Kit
Sides Adjusted: 2

44-2510 UPPER CONTROL ARM OFFSET CAMBER BUSHINGS

- OE style design - does not affect ride or handling
- Simple installation with use of special bushing adapter set **88-7950A**
- Only effective means of reclaiming lost camber

3//4 and 1Ton Models - Forged Arm

Chevrolet Avalanche 2500 HD *2002-2006*
Chevrolet Silverado HD *1999-2010*
Chevrolet Silverado HD 2500 *1999*
Chevrolet Suburban 2500 HD 2WD/4WD *2000-2013*
GMC Sierra HD *2007-2010*
GMC Yukon XL 2500 HD 2WD/4WD *2000-2013*

Adjustment Range: ±1°
Quantity: Kit
Sides Adjusted: 2

44-2512

FRONT ALIGNMENT REPLACEMENT GUIDE PIN

- Fast and easy replacement of damaged or broken guide pins

Chevrolet GMC 2WD/4WD 2011-2020 (upper control arm)
2500HD,3500HD, 4500
Chevrolet Colorado/GMC Canyon 2WD/4WD *2015-2020 (lower control arm)*

Quantity: 12

FRONT TIE ROD ADJUSTING SLEEVE

- Replaces the OE round adjusting sleeve with a hex shaped sleeve
- Prevents tools from slipping when adjusting
- Product recommended for when existing sleeve is damaged or during tie rod end replacement

44-2535

Jeep Wrangler JK *2007-2018*

44-2540

Ram 2500 *2014*
Ram 3500 *2013-2014 (Build date before 11/4/13)*

44-2542

Ram 2500 *2014-2017*
Ram 3500 *2013-2017 (Build date After 11/4/13)*

Quantity: 1 per vehicle

44-2610

FRONT UPPER CAMBER/CASTER ADJUSTABLE BALL JOINT

- Quick and easy replacement of a non-adjustable OEM ball joints
- Greaseable design for extended durability
- Allows for continuous future adjustments
- Greaseable Design

Dodge Truck 4500/5500 2WD/4WD *2008-2018*

Adjustment Range: Camber/Caster 2WD ±1°
Quantity: Each Camber 4WD ±1°
Sides Adjusted: 1

44-2617

FRONT LOWER CAMBER/CASTER ADJUSTABLE BALL JOINT

- Fixes common factory camber issue
- Adjustable for both camber and caster
- Adjust ride height for camber change on HD applications
- Great for HD fleet applications
- Maximize your tire mileage
- Fits all Transit Vans 150-350
- Quick and easy on vehicle adjustment
- Greaseable Design

Ford Transit Vans *All 150-350*

Patent pending

Adjustment Range: +1°
Quantity: Each
Sides Adjusted: 1

44-2720L (LEFT SIDE)
44-2720R (RIGHT SIDE)

FRONT UPPER CAMBER/CASTER CONTROL ARM WITH ADJUSTABLE BALL JOINT

- Quick and easy replacement of OE control arm
- Adjustable ball joint allows for continuous future adjustments
- OE style Control Arm
- Greaseable ball joint design for extended durability

Dodge Durango *2011-2015*
Jeep Grand Cherokee *2011-2015*

Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

44-2725

FRONT UPPER CAMBER/CASTER CONTROL ARM WITH ADJUSTABLE BALL JOINT

- Quick and easy replacement of OE control arm
- Greaseable ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style control arm
- Fits both left and right side of vehicle

Chevrolet 1500 Pickups/SUVs LD 2WD/4WD *1999-2006*
GMC 1500 Pickups/SUVs LD 2WD/4WD *1999-2006*
GM Express vans *2003-2020*

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

44-2726L (LEFT SIDE)
44-2726R (RIGHT SIDE)

FRONT UPPER CONTROL ARM WITH ADJUSTABLE CAMBER/CASTER BALL JOINT

- Quick and easy replacement of OE control arm
- Greaseable ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style control arm

Chevrolet 1500 Pickups/SUVs LD 2WD/4WD *2007-2020*
GMC 1500 Pickups/SUVs LD 2WD/4WD *2007-2020*

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

44-2727

FRONT UPPER CONTROL ARM WITH ADJUSTABLEBALL JOINT

- Quick and easy replacement of OE control arm
- Greaseable ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style control arm
- Fits both Left and Right sides of vehicle

Chevrolet Silverado 2500HD/3500 *2011-2020*
GMC Sierra 2500HD/3500 *2011-2020*

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

44-2728L (LEFT SIDE)
44-2728R (RIGHT SIDE)

FRONT UPPER ALUMINUM CONTROL ARM WITH ADJUSTABLE CAMBER/CASTER BALL JOINT

- Quick and easy replacement of OE control arm
- Greaseable ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style control arm

Chevrolet/GMC 1500 Z71 off road with stock aluminum arms *2015-2019*

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

44-2730

FRONT UPPER CONTROL ARM WITH ADJUSTABLE CAMBER/CASTER BALL JOINT

- Quick and easy replacement of OE control arm
- GREASEABLE ball joint design for extended durability
- Adjustable ball joint allows for continuous future adjustments
- OE style control arm
- Fits both Left and Right sides of vehicle

Chevrolet 1500 HD Pickups 2WD/4WD *2001-2010*
Chevrolet 2500/3500 Pickups/SUVs 2WD/4WD *1999-2010* ***GMC 1500 HD Pickups 2WD/4WD*** *2001-2010*
GMC 2500/3500 Pickups/SUVs 2WD/4WD *1999-2010*

Adjustment Range: ±3° Camber, ±1.5° Caster
Quantity: Each
Sides Adjusted: 1

44-5000 Series

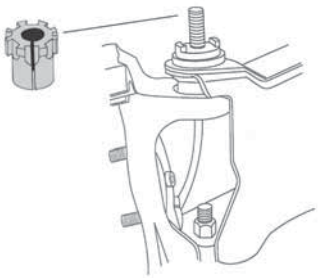
FRONT CAMBER/CASTER ADJUSTMENT BUSHINGS

Adjust Camber/Caster or a combination of both from 0° to 2.75° either positive or negative with these easy-to-adjust "Multi-slot" bushings.

44-4099	0°
44-5001	.25°
44-5002	.5°
44-5003	.75°
44-5004	1°
44-5005	1.25°
44-5006	1.5°
44-5007	1.75°
44-5008	2°

1 Per Package

Ford F150/F250 4X4 *1980-1996*
Ford F350 4X4 *1992-2002*
Ford Super Duty *1998-2004*
Ford Excursion 4WD *2000-2004*
Dodge Ram 2500/3500 2WD *1994-1999*
Dodge Ram 2500/3500 4WD *1994-2002*



44-5000A

XTRA RANGE

44-5009	2.25°
44-5010	2.5°
44-5011	2.75°

Contains 2 each size bushing 44-4099 through 44-5008

LIGHT TRUCK

See Application Guide, pages 12-73, for specific models and years

FRONT ADJUSTABLE LIGHT TRUCK CAMBER/CASTER BUSHINGS

- New DUAL AXIS design for up to 25% Greater Range of Adjustment. Bushing can be set to True Zero
- "Technician Friendly" feature makes on-the-vehicle adjustments a snap!
- Universal adjustable design allows all Camber/Caster or combination adjustments with one part number

This fully adjustable design featured on the fallowing

44-5032 44-5036 44-5037 44-5094

44-5032

Ford F150 4x4 *1980-1996*
Ford F250 4x4 *1980-1997*
Ford F350/F550 Super Duty 4x4 *1992-2004*
Dodge Ram 2500/3500 4x4 *1994-1999*
Dodge Ram 2500/3500 4x2 *1994-2002*

Adjustment Range: ±3.2°
Quantity: Each
Sides Adjusted: 1

ADJUSTABLE

Patent No. US 7,331,589 B2

44-5036

Ford F250/F350 4x4 *2005-2017*

Adjustment Range: ±2.5°
Quantity: Each
Sides Adjusted: 1

ADJUSTABLE

Patent No. US 7,331,589 B2

44-5037

Ford F450/F550 4x4/4x2 *2005-2019*
Chevrolet Kodiak *2005-2009*
GMC TopKick *2005-2009*

Adjustment Range: ±2.5°
Quantity: Each
Sides Adjusted: 1

ADJUSTABLE

Patent No. US 7,331,589 B2

44-5094

Adjustment Range: ±4°
Quantity: Each
Sides Adjusted: 1

Ford Explorer 4x4/4x2 *1990-1994*
Ford Ranger 4x4/4x2 *1990-1997*
Ford F150/F250/F350 4x2 *1987-1996*
Ford Econoline Van *1992-2017*
Ford Excursion 4x2 *2000-2005*
Ford F250,F350,F450,F550 Super Duty 4x2 *1997-2020*
Mazda Navajo 4x4/4x2 *1991-1994*
Mazda Pickup 4x4/4x2 *1994-1999*

ADJUSTABLE

Patent No. US 7,331,589 B2

LIGHT TRUCK

44-6000 Series

FRONT CAMBER/CASTER ADJUSTMENT BUSHINGS

- Adjusts Camber/Caster or a combination of both from ±.25° to ±2°
- Adjusts Camber from +2.25° to +2.5°
- Allows for adjustment where there s no OE adjustment available

Ford F250/F350 4x4 *2005-2017*

44-6001	0°
44-6002	.25°
44-6003	.5°
44-6004	.75°
44-6005	1°
44-6006	1.25°
44-6007	1.5°
44-6008	1.75°
44-6009	2°
44-6010	2.25°
44-6011	2.5°
44-6000A	Assortment -2 Each Size

1 Per Package

See Application Guide, pages 12-73, for specific models and years

44-6020 Series

FRONT CAMBER/CASTER ADJUSTMENT BUSHINGS

- Adjusts Camber/Caster or a combination of both from ±.25° to ±2°

44-6021	0°
44-6022	.25°
44-6023	.5°
44-6024	.75°
44-6025	1°
44-6026	1.25°
44-6027	1.5°
44-6028	1.75°
44-6029	2°
44-6020A	Assortment -2 Each Size

Ford F450/F550 4x4/4x2 *2005-2019*
Chevrolet Kodiak 4x4 *2005-2009*
Chevrolet 4500/5500/6500 *2019-2020*
GMC TopKick 4/4 *2005-2009*

LIGHT TRUCK

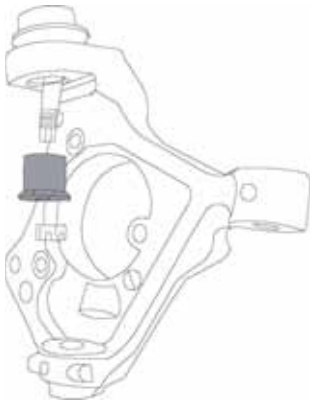
FRONT CAMBER ADJUSTMENT BUSHINGS

- Allows for adjustment where there is no OE adjustment available
- Designed with hex head foe ease of adjustment
- Restores factory wheel alignment settings
- Manufactured to exceed OEM durability standards

NEW

44-6032	.5°
44-6034	1°

Jeep JL *2018-2020*



Quantity: Each
Sides Adjusted: 1

45-100 US

US SERIES CAMBER/CASTER SHIM

45-101	1/64”
45-102	1/32”
45-103	1/16”
45-104	1/8”

Universal shim covers a range of bolt sizes up to 5/8” diameter

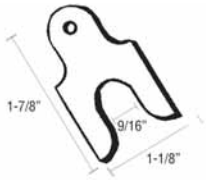
100 pieces per package

45-200 BOC

BOC SERIES CAMBER/CASTER SHIM

45-201	1/64”
45-202	1/32”
45-203	1/16”
45-204	1/8”

Buick
Cadillac
Oldsmobile



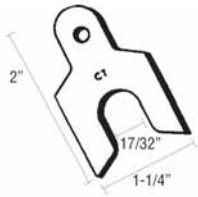
100 pieces per package

45-300 CT

CT SERIES CAMBER/CASTER SHIM

45-301	1/64”
45-302	1/32”
45-303	1/16”
45-304	1/8”

Chevrolet 1/2 ton Truck
GMC 1/2 ton Truck
Ford passenger cars



100 pieces per package

45-351 *UPDATED*

CAMBER/CASTER PASSENGER AND LIGHT TRUCK SHIM ASSORTMENT

350 Pieces

45-500 N

N SERIES CAMBER/CASTER SHIM

45-501	1/64”
45-502	1/32”
45-503	1/16”
45-504	1/8”

Late model RWD
Gereral Motors

100 pieces per package

45-600 CC

CC SERIES CAMBER/CASTER SHIM

45-602	1/32”
45-603	1/16”
45-604	1/8”

Chevrolet 3/4 and 1 ton Truck
GMC 3/4 and 1 ton Truck

100 pieces per package

See Application Guide, pages 12-73, for specific models and years

45-6001 1/16”

CASTER ADJUSTMENT SPACERS

For Toyota models with stabilizer bushings at lower control arm

45-6002 1/8”

12 Per Box

45-6005 1/16”

CASTER ADJUSTMENT SPACERS

Acura CL Series *1996-1999*
Acura TL Series *1996-2003*
Accura Vigor *1992-2007*
Honda Accord *1990-2007*
Honda Odyssey *1990-2007*
Isuzu Oasis *1996-1999*

45-6006 1/8”

Quantity: 12

46-131

REAR CAMBER/TOE BUSHING

Tool No **88-1302** is required for proper positioning of bushing.

Ford Taurus Sedan *1986-2006*
Lincoln Continental *1988-1994*
Mercury Sable Sedan *1986-2005*

Adjustment Range: Camber 2°
Quantity: Pair Toe 1.5° (3/4”)
Sides Adjusted: 2

46-132

REAR CAMBER CAM BOLT

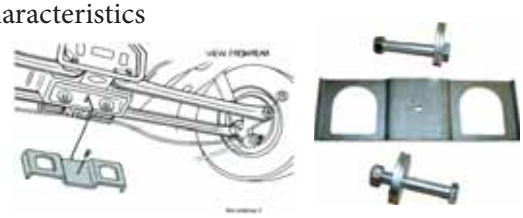
Lincoln Continental *1988-1994*
Ford Taurus Sedan *1986-1995*
Mercury Sable Sedan *1986-1995*

Adjustment Range: 2.25°
Quantity: Pair
Sides Adjusted: 2

46-134

REAR CAMBER/TOE KIT

- Easy adjustment of rear camber on factory non-adjustable vehicles
- Provides rear toe adjustment when factory adjusters are frozen
- Retains original ride and handling characteristics



Ford Taurus Sedan *1996-2006*
Mercury Sable Sedan *1996-2005*

Adjustment Range: Camber/Toe 2° (3/4")
Quantity: Kit
Sides Adjusted: 2

46-135

REAR CAMBER CAM BOLT KIT

- Designed to provide camber adjustment where no factory adjustment is available
- Quick and easy installation

Ford Freestyle 4x2 *2005-2007*
Taurus X *2009-2009*
Taurus 4x2 *2009-2009*
Ford Five Hundred 4x2 *2005-2007*

Adjustment Range: +1.5°
Quantity: Kit
Sides Adjusted: 2

46-136

REAR CAMBER CAM BOLT

- Allows accurate camber adjustment to correct rear tire wear problems.
- Quick and easy installation

Ford Taurus Wagon *1986-2006*
Mercury Sable Wagon *1986-2005*

Adjustment Range: 2.5°
Quantity: Pair
Sides Adjusted: 2

 See Application Guide, pages 12-73, for specific models and years

46-137

REAR GREASEABLE TOE BOLT

- Provides toe adjustment for vehicles with frozen OE toe bolts
- Quick and easy installation

Ford Escape 4WD *2001-2012*
Ford Escape FWD *2001-2012*
Mercury Mariner AWD FWD *2005-2011*

Adjustment Range: ±2°
Quantity: Pair
Sides Adjusted: 2

46-141

REAR CAMBER/TOE CAM BOLT KIT

Provides camber and toe adjustment on vehicles with frozen OE bolts, or where additional change is needed.

Infinity G37 *2008-2014*
Infiniti G35 *2006-2008*
Nissan 370 Z *2009-2017*

Adjustment Range: ±3°
Quantity: Kit
Sides Adjusted: 2

46-143

FRONT CAMBER CAM BOLT KIT

- Provides camber adjustments to correct sagging suspension.
- Designed to provide additional adjustment beyond that available from OE.
- Extends adjustment by elongating hole

Mercury Grand Marquis *2003-2011*
Ford Crown Victoria *2003-2011*
Lincoln Town Car *2003-2011*

Adjustment Range: ±2.5°
Quantity: Kit
Sides Adjusted: 2

46-162

REAR CAMBER BUSHINGS

- Allows for rear positive or negative adjustments
- Designed to provide adjustment where no OE adjustment is available.

Chrysler 300 *2005-2019*
Dodge Magnum *2005-2008*
Dodge Charger *2006-2020*
Chrysler Pacifica *2004-2008*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

REAR WHEEL

46-164

REAR CAMBER/TOE CAM BOLT KIT

Provides camber and toe adjustment on vehicles with frozen OE bolts, or where additional change is needed.

Infiniti G35 Coupe *2003-2006*
Infiniti G35 Sedan *2003-2006*
Nissan Altima *2007-2015*
Nissan 350Z *2003-2008*

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 2

46-166

REAR CAMBER/TOE CAM BOLT KIT

Provides toe adjustment on vehicles with frozen OE bolts or where additional change is needed

Hyundai Santa Fe *2001-2006*

Adjustment Range: Camber ±2° Toe ±1.5°
Quantity: Kit
Sides Adjusted: 2

46-168

REAR GREASEABLE TOE BOLT

- Direct replacement Greaseable Rear Toe bolt
- Pro Series Greaseable line
- Restore factory adjustment and insure ease of future adjustment
- Greaseable design keeps bolts from seizing up due to rust and corrosion

Mazda 3 *2004-2018*
Mazda 3 S I *2010-2014*
Mazda 5 *2006-2017*
Mazda CX-7 *2007-2012*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

46-169

REAR GREASEABLE TOE BOLT

- Greaseable replacement toe cam bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Kia Sorento *2013-2015*
Kia Sedona *2015-2017*
Kia Santa Fe *2013-2017*
Hyundai Santa Fe AWD/FWD *2013-2020*
Hyundai Santa Hybird *2011-2015*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

REAR WHEEL

See Application Guide, pages 12-73, for specific models and years

46-171 REAR GREASEABLE CAM BOLT

- Greaseable replacement cam bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Kia Sedona *2015-2017*
Kia Sportage *2013-2017*
Kia Sorento 2WD/4WD *2019-2020*
Kia Cadenza *2014-2017*
Hyundai Santa Fe Sport AWD *2015-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

46-173 REAR GREASEABLE TOE BOLT

- Greaseable replacement Toe Bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Ford Focus *2013-2018*
Ford C-Max *2013-2018*
Ford Escape AWD/FWD *2013-2019*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

46-174 REAR GREASEABLE TOE BOLT

- Greaseable replacement Toe Bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Honda Accord *2018-2020*
Honda Civic (Except Si and Type R) *2016-2020*
Honda CR-V 2WD/4WD/Touring *2017-2020*
Honda Insight *2019-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

REAR WHEEL

46-182

REAR CAMBER/TOE CAM BOLT

- Allows for additional camber and toe change from what OE bolts provide
- No modification necessary
- Quick and easy replacement of OE bolts

Chevrolet SS *2014-2017*
Chevrolet Camaro *2010-2020*
Chevrolet Caprice *2012-2017*
Pontiac G8 *2008-2009*

Adjustment Range: Camber ±1°
Quantity: Pair Toe ±2°
Sides Adjusted: 2

46-406

REAR TOE ADJUSTMENT KIT

Unique external cam plate design easily attaches to vehicle, allowing a full range of positive or negative rear toe adjustment.

Saturn All Models *1991-1998*
Saturn S Series *1991-2002*

Adjustment Range: 2° (1")
Quantity: Kit
Sides Adjusted: 2

46-421

REAR LINK INBOARD SEALED FLEX JOINT REPLACEMENT BUSHING WITH CAMBER CAM BOLTS

- These sealed flex joint bushings replace commonly corroded and seized OEM bushings
- Replacement camber adjusting cam bolts also provided.
- Exact OEM replacement

Tools Available:
88-7996A
SEE PAGE 154

Buick Enclave *2008-2017*
Chevrolet Traverse *2008-2017*
GMC Acadia *2007-2016*
Saturn Outlook *2007-2010*

Adjustment Range: Camber ±1.5°
Quantity: Kit
Sides Adjusted: 2

AX² DUAL AXIS REAR CAMBER CAM BOLT SYSTEM

- Extends factory adjustments
- Simple to install
- Replaces factory rear cam bolt system
- Allows for future adjustment
- Made of 12.9 high strength steel

US Patent # 9,233,589

	Make/Model	Toe or Camber
46-425	*Chevrolet Malibu* 2004-2012 *Pontiac G6* 2005-2010 *Saab 9-3* 2003-2011 *Saturn Aura* 2007-2009	Camber
46-426		Toe
46-427	*Buick Lacrosse (Non Hyper Strut)* 2010-2019 *Buick Regal(Non Hyper Strut)* 2008-2018 *Saab 9-5* 2010-2012 *Chevrolet Malibu* 2012-2016 *Cadillac XTS (Non Hyper Strut)* 2012-2019 *Chevroler Impala* 2013-2020	Camber
46-428		Toe

Adjustment Range: ±2°
Quantity: Pair
Sides Adjusted: 2

46-431

REAR GREASEABLE TOE CAM BOLT

- Greaseable replacement toe cam bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Subaru
Legacy *2000-2009*
Outback *2000-2009*
Baja *2003-2006*
Tribeca *2006-2010*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

46-432

REAR GREASEABLE CAMBER TOE

- Provides camber and toe adjustments on vehicles with frozen OE bolts, or where additional change is needed
- Greaseable replacement toe cam bolt kit is a direct replacement and will restore the factory adjustment

Toyota Rav 4 *2001-2005*

Adjustment Range: ±1.75°
Quantity: Pair
Sides Adjusted: 2

NEW

46-434

REAR GREASEABLE TOE BOLT

- Greaseable replacement toe cam bolt kit is a direct replacement and will restore the factory adjustment
- Greasable design alleviates bolt corrosion and allows for ease of future adjustments

Acura ILX *2013-2020*
Acura ILX Hybird *2013-2015*
Honda Civic LX *2006-2017*
Honda Civic CR-V 2WD/4WD/Touring *2007-2016*
Honda Fit(EV) *2013-2014*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-437

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Chrysler 200 *2011-2014*
Chrysler Sebring *2007-2010*
Dodge Avenger *2011-2014*
Dodge Journey *2009-2020*
Jeep Compass *2011-2017*
Jeep Grand Cherokee *2014-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-438

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Dodge Durango *2016-2020*
Jeep Grand Cherokee *2011-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-439

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Acura MDX *2001-2006*
Honda Odyssey *1999-2004*
Honda Pilot *2003-2008*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

REAR WHEEL

See Application Guide, pages 12-73, for specific models and years

NEW

46-451

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Acura ZDX *2010-2013*
Acura MDX *2007-2013*
Honda Pilot *2009-2015*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-452

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Acura MDX *2014-2019*
Acura MDX Sport Hybrid *2017*
Honda Ridgeling *2017-2020*
Honda Pilot *2016-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-453

REAR GREASEABLE CAMBER BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Chrysler Sedan *2015-2017*
Jeep Cherokee *2014-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-454

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Chrysler Sedan *2015-2017*
Jeep Cherokee *2014-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-455

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Toyota Prius *2016-2020*
Toyota C-HR *2018-2020*
Toyota Avalon *2013-2020*
Toyota Camry Hybrid *2018-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-456

REAR GREASEABLE CAMBER TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Volkswagen Golf Sportwagon *2015-2019*
Volkswagen GTI *2010-2014*
Volkswagen Beetle Coupe *2011-2019*
Porsche Macan *2015-2020*
Audi A6/S6 *2012-2018*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-457

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Will remain adjustable for the life of the vehicle
- Direct replacement and will restore factory adjustment to rusted or seized cam bolts
- Greaseable feature keeps bolts lubricated to ensure that future adjustments can be achieved and parts will move freely

Ford Fusion *2013-2019*
Lincoln MKX *2016-2018*
Ford Shelby GT350 Mustang *2016-2020*
Ford Edge *2015-2020*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-458

REAR GREASEABLE CAMBER KIT

- Makes rear camber adjustments possible on the 2015-2018 Mustang
- Precise easy controlled adjustment
- No pry bar needed
- Fast on vehicle adjustment
- No drilling or modification required

Ford Mustang *2015-2020*
Ford Shelby GT350 Mustang *2016-2018*

Adjustment Range: ±1.5°
Quantity: Kit
Sides Adjusted: 2

REAR WHEEL

See Application Guide, pages 12-73, for specific models and years

NEW

46-459

REAR GREASEABLE TOE BOLT

- Greaseable design keeps bolts lubricated to ensure that future adjustments can be achieved
- Direct replacement will restore factory adjustment to rusted or seized cam bolts
- Will remain adjustable for the life of the vehicle

Mini Cooper R55 *2008-2014*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

NEW

46-461

REAR GREASEABLE TOE BOLT

- Greaseable Design
- Replacement Toe Bolt kit is a direct replacement and will restore the factory adjustment
- Greaseable design alleviates bolt corrosion and allows for ease of future adjustments

Subaru Impreza *1999-2007*
Subaru Outback *1999-2007*

Adjustment Range: ±2°
Quantity: Pair
Sides Adjusted: 2

NEW

46-462

REAR GREASEABLE TOE BOLT

- Greaseable design keeps bolts lubricated to ensure that future adjustments can be achieved
- Direct replacement will restore factory adjustment to rusted or seized cam bolts
- Will remain adjustable for the life of the vehicle

Mini Cooper F56 *2014-2018*

Adjustment Range: ±1.5°
Quantity: Pair
Sides Adjusted: 2

46-916

GM REAR SPINDLE (HUB AND BEARING) REPLACEMENT SOCKET HEAD CAP SCREWS

These high-strength socket head cap screws are 5 mm longer than the torx bolt they replace. Ideal for rear shim installation.

Quantity: 16

46-1030

COATED INDEXING WALL CHART

For proper indexing of rear shim to achieve exact positioning

46-1035

PAINT STICK

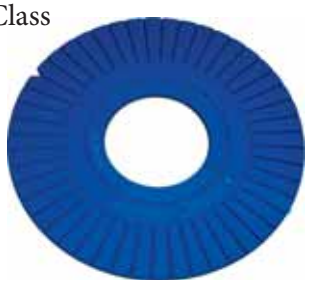
For marking shim tabs to be removed for proper mounting

46-1000 Series

REAR FULL CONTACT CAMBER/TOE SHIM (BLUE)

- Audi 80
- Audi 90
- Chevrolet Spectrum
- Chrysler Dynasty
- Chrysler E Class

46-1001	.25°
46-1002	.5°
46-1003	.75°
46-1004	1°
46-1005	1.25°
46-1006	1.5°
46-1000A	Assortment - 2 each size



46-1100 Series

REAR FULL CONTACT CAMBER/TOE SHIM (WHITE)

- Audi 100/200
- Audi 5000
- Chevrolet Aveo
- Chrysler Town/City Van
- Dodeg Caravan

46-1101	.25°
46-1102	.5°
46-1103	.75°
46-1104	1°
46-1105	1.25°
46-1106	1.5°
46-1100A	Assortment - 2 each size

46-1120 Series

REAR FULL CONTACT CAMBER/TOE SHIM (GREEN)

- Chrysler Town&Country Van
- Chrysler Voyager Van
- Dodge Caravan
- Nissan Leaf

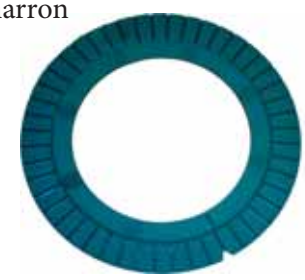
46-1121	.25°
46-1122	.5°
46-1123	.75°
46-1124	1°
46-1120A	Assortment - 2 each size

See Application Guide, pages 12-73, for specific models and years

46-1200 Series

REAR FULL CONTACT CAMBER/TOE SHIM (GREY)

- Acura Integra
- Buick Skyhawk
- Buick Somerset
- Cadilac Cimarron



46-1201	.25°
45-1202	.5°
46-1203	.75°
46-1204	1°
46-1205	1.25°
46-1206	1.5°
46-1200A	Assortment - 2 each size

46-1300 Series

REAR FULL CONTACT CAMBER/TOE SHIM (BURGUNDY)

- Buick Century
- Buick LeSabre
- Buick Lucerne
- Buick Rendezvous

46-1301	.25°
45-1302	.5°
46-1303	.75°
46-1304	1°
46-1305	1.25°
46-1306	1.5°
46-1300A	Assortment - 2 each size

46-1500 Series

REAR FULL CONTACT CAMBER/TOE SHIM (BLACK)

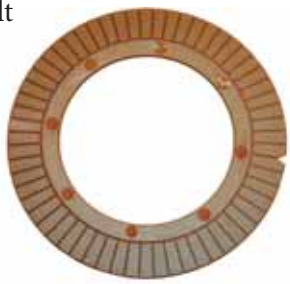
- Chrysler 200
- Honda Fit
- Hyundai Accent
- Kia Soul

46-1501	.25°
46-1502	.5°
46-1503	.75°
46-1504	1°
46-1500A	Assortment - 2 each size

46-1520 Series

REAR FULL CONTACT CAMBER/TOE SHIM (BROWN)

- Chevrolet Cobalt
- Chevrolet HHR
- Pontiac G5
- Pontiac G6



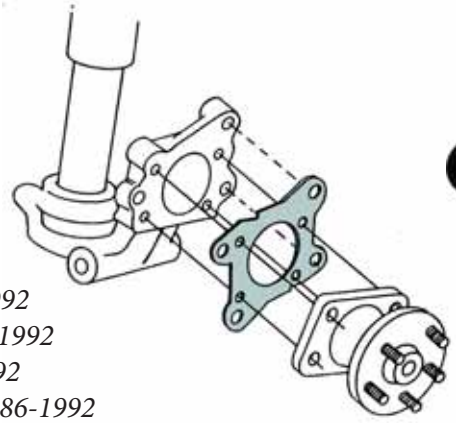
46-1521	.25°
46-1522	.5°
46-1523	.75°
46-1524	1°
46-1520A	Assortment - 2 each size

46-1600 Series

GM E & K BODY REAR CAMBER SHIM

Allows for either positive or negative camber adjustment, while keeping the caliper in exact alignment ith the rotor.

46-1601	.25°
46-1602	.5°
46-1603	.75°
46-1604	1°



Buick Riviera *1985-1993*
Cadillac Allante *1987-1992*
Cadillac Eldorado *1986-1992*
Cadillac Seville *1986-1992*
Oldsmobile Toronado *1986-1992*

Quantity: Each
Sides Adjusted: 1

46-1700

REAR CAMBER SHIM KIT

Ford Focus *2000-2011*

- Easy installation
- Changes camber ±.5° or 1°, depending on shim selected
- Suitable for ABS-equipped vehicles
- Full support of rear hub/wheel
- Works in conjunction with factory toe adjuster to accurately set rear angles to desired readings

46-1702	.5°
46-1704	1°

Kit contains 2 of each size and necessary hardware for installation

46-1705

AXIS CAM

REAT CAMBER ADJUSTMENT BOLT SYSTEM

This kit replaces the outer bolt of the upper rear control arm and provides ±1° of camber adjustment. Perfect for lowered vehicles or standard alignments.

Ford Focus *2000-2011*

Adjustment Range: Camber ±1°
Quantity: Pair
Sides Adjusted: 2

REAR WHEEL

See Application Guide, pages 12-73, for specific models and years

46-1707

REAR CAMBER AXIS CAM BOLT

This kit replaces knuckle bolt on the lower rear control arm to make camber fully adjustable

Hyundai Entourage *2007-2009*
Kia Sedona *2006-2020*

Adjustment Range: ±.75°
Quantity: Pair
Sides Adjusted: 2

46-1709

REAR CAMBER AXIS CAM BOLT

This kit replaces the outer bolt of the upper rear control arm and provides ±.75° of camber adjustment. Perfect for lowered vehicles or standard alignments.

Ford Explorer 2WD/4WD *2011–2019*
FORD Flex FWD/AWD *2009–2020*
Ford Taurus Sedan *2010–2019*
Lincoln MKS *2009–2016*
Lincoln MKT *2010-2019*

Adjustment Range: ±.75°
Quantity: Pair
Sides Adjusted: 2

46-1900 REAR GM CAMBER REAR FULL CONTACT SHIM

- Allows for camber adjustment where no OE adjustment is available
- Will not interfere with ABS brake system

46-1901	.25°
46-1902	.5°
46-1903	.75°
46-1904	1°
46-1900A	Assortment - 2 each size

Buick LeSabre *2000-2005*
Buick Park Avenue *1997-2005*
Cadillac Deville *2000-2005*
Cadillac Seville/STS *1998-2011*
Oldsmobile Aurora *2001-2003*
Pontiac Bonneville *2000-2005*

46-2002A

SYSTEM 2000 MASTER UNIVERSAL REAR SHIM ASSORTMENT

PART	QTY	DESC
46-2100	6	Blue Shim
46-2200	6	White Shim
46-2300	6	Grey Shim
46-2400	6	Burgundy Shim
88-343	1	Tab Cutting Tool
46-1035	1	Paint Stick
46-2000AB	Assortment Above, Plus Wall Board	

REAR WHEEL

SYSTEM 2000 UNIVERSAL REAR FULL CONTACT/TOE SHIM

EXACT FIT System 2000's four part numbers provide a precision fit for all application. No modification of outer perimeter is required, as is the case with other shim designs. A perfect alignment with full spindle support.

SIMPLICITY Just set the System 2000 shim on the template, dial in the predetermined numbers from the chart, and create the exact shim angle needed to precisely align the vehicle. Break out tabs as shown and install.

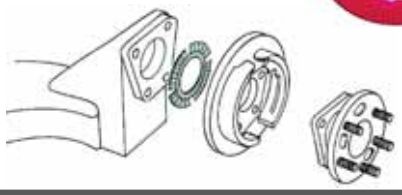
46-2100 **Blue**
Audi, Chrysler, Dodge, Eagle, Geo, Isuzu, Plymouth, Pontiac, Volkswagen

46-2200 **White**
Audi, Plymouth, Chrysler, Dodge, Honda, Mercury

46-2300 **Grey**
Acura, Buick, Cadillac, Chevrolet, Geo, Oldsmobile, Pontiac, Toyota

46-2400 **Burgundy**
Buick, Cadillac,Chevrolet, Oldsmobile, Pontiac, Toyota

Adjustment Range: 0° to 1.5°
Quantity: Each
Sides Adjusted: 1



REAR WHEEL

46-1050

SYSTEM 2000 INDEXING SLIDE CHART

Use this plastic slide chart to display shim indexing numbers by simply pulling slide until desired changes show in toe and camber windows.

46-2160

REAR XTRA RANGE CAMBER SHIM KIT

Acura 2.2CL,2.3CL,3.0CL *1997-1999*
Acura Integra *1990-2001*
Acura Legend *1991-1995*
Honda Accord *1986-1989*
Honda Civic *1992-2000*
Isuzu Oasis *1996-1999*

2 each 1/16" shim = .20° possible change
2 each 1/8" shim = .40° possible change
2 each Extended bolt

Adjustment Range: Up To 1.25°
Quantity: Kit
Sides Adjusted: 1

 See Application Guide, pages 12-73, for specific models and years

46-2170

REAR XTRA RANGE CAMBER SHIM KIT

Chrysler Sebring Coupe *1995-2000*
Chrysler Sebring Coupe *2001-2010*
Dodge Avenger *1995-2000*
Dodge Stratus Coupe *1995-2000*
Dodge Stratus Coupe *2001-2005*

4 each 1/16" shim = .20° possible change
4 each 1/8" shim = .40° possible change
4 each Extended bolts

Adjustment Range: Up To +1.25°
Quantity: Kit
Sides Adjusted: 1

46-2174

REAR TOE ARM WITH ADJUSTABLE CAM BOLT KIT

•Allows for rear positive or negative camber adjustment where no OE adjustments are available
• Hexed turnbuckle design for fast and easy adjustments
• Includes OE style bushings

Jeep Patriot *2007-2017*
Dodge Caliber *2007-2012*
Jeep Compass *2007-2020*

Adjustment Range: ±1.5°
Quantity: Each
Sides Adjusted: 1

46-2175

REAR CAMBER ADJUSTABLE ARM

•Allows for rear positive or negative camber adjustment where no OE adjustments are available
• Hexed turnbuckle design for fast and easy adjustments
• Includes OE style bushings

Chrysler Sebring *2007-2010*
Dodge Journey *2009-2010*
Dodge Avenger *2008-2010*

Adjustment Range: +2.5°
Quantity: Each
Sides Adjusted: 1

46-2176

REAR CAMBER ADJUSTABLE ARM

•Allows for rear positive or negative camber adjustment where no OE adjustments are available
• Hexed turnbuckle design for fast and easy adjustments
• Includes OE style bushings

Chrysler 200 *2011-2014*
Dodge Avenger *2011-2014*
Dodge Journey *2011-2020*

Adjustment Range: ±4°
Quantity: Each
Sides Adjusted: 1

46-2177

REAR GREASEABLE TOE ARM

- Allows for positive or negative rear toe adjustment where no OE adjustments are available.
- GREASEABLE Design

Subaru Crosstrek *2013-2020*
Subaru Impreza *2008-2020*
Subaru Forester *2009-2020*
Subaru Legacy *2010-2019*
Subaru Outback *2010-2020*
Scion FR-s *2013-2016*
Subaru WRX *2015-2020*

Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

46-2178

REAR CAMBER ARM

- Comes with durable OE-style bushings
- Makes non-adjustable vehicles fully adjustable for rear camber
- Unique design allows fast and easy "on-vehicle" replacement

Dodge Caliber *2007-2012*
Jeep Compass *2007-2020*
Jeep Patriot *2007-2017*
Mitsubishi Outlander *2003-2020*

Adjustment Range: ±2°
Quantity: Each
Sides Adjusted: 1

46-2179

REAR GREASEABLE CAMBER ARM

Allows for positive or negative rear camber and/or toe adjustment where no OE adjustments are available.

- Greaseable design to extend tie rod life
- Hex turnbuckle design for fst and easy adjustments
- Includes OE style bushing

Ford Escape FWD/AWD *2001-2012*
Mazda Tribute FWD/AWD *2009-2012*
Merceuy Mariner FWD/AWD *2005-2011*

Adjustment Range: ±2°
Quantity: Each
Sides Adjusted: 1

46-2180

REAR CAMBER ARM

- Ideal for lowered vehicles
- Includes OEM-style rubber bushings for a quiet ride
- Replaces non-adjustable OEM suspension arms

Acura RSX *2002-2006*
Honda Civic *2001-2005*
Honda Civic Sl *2002-2005*

Adjustment Range: -4° to+6°
Quantity: Each
Sides Adjusted: 1

REAR WHEEL

See Application Guide, pages 12-73, for specific models and years

46-2181

REAR GREASEABLE CAMBER ARM

- Quick and easy replacement of non-adjustable OEM arm
- Turnbuckle design allows accurate controlled adjustments
- Allows for continuous future adjustments
- Greaseable Design

Acura 3.2CL *1997-1999*
Acura 3.2TL *1999-2003*
Acura 3.5RL *1996-2004*
Honda Accord *1998-2002*

Adjustment Range: -2° to +4°
Quantity: Each
Sides Adjusted: 1

46-2182

REAR CAMBER ARM

- Quick and easy replacement of non-adjustable OEM arm
- Turnbuckle design allows accurate controlled adjustments
- Allows for continuous future adjustments

Honda Civic and CRX *1988-2000*
Honda CRX *1988-1992*
Honda Del Sol *1992-1997*
Honda CRV *1997-2001*

Adjustment Range: -2° to +5°
Quantity: Each
Sides Adjusted: 1

46-2183

REAR TOE ARM

- Replacement for damaged or frozen OE toe arm
- Provides adjustment beyond the OE adjustment
- Works with 46-2184 adjustable camber arm

Acure TLX(AWD) *2015-2020*
Acura TL, TSX *2009-2014*
Honda Accord *2008-2017*
Honda Crosstour *2010-2015*

Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

46-2184

REAR CAMBER ARM

Allows for positive or negative rear camber adjustment where no OE adjustments are available.

Acure TLX(AWD) *2015-2020*
Acura TL, TSX *2009-2014*
Honda Accord *2008-2017*

Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

46-2185

REAR CAMBER LINK

Allows for positive or negative camber adjustment where no OE adjustments are available.

Honda CRV *2002-2006*
Honda Element *2003-2011*

Adjustment Range: -2° to +4°
Quantity: Each
Sides Adjusted: 1

46-2186

REAR CAMBER ARM

Allows for positive or negative camber adjustment where no OE adjustments are available.

Honda CRV *2007-2016*

Adjustment Range: -2° to +4°
Quantity: Each
Sides Adjusted: 1

46-2187

REAR ALUMINUM CAMBER ARM

Allows for positive or negative camber adjustment where no OE adjustments are available.

Acura CSX *2006-2011*
Acura ILX *2013-2020*
Honda Civic *2006-2015*
Honda Civic Hybird *2006-2015*

Adjustment Range: -4° to ±3°
Quantity: Each
Sides Adjusted: 1

46-2188

REAR CAMBER ARM

This kit allows for rear camber adjustment with fast and easy on-vehicle replacement.

Ford Escape *2013-2019*
Ford C-Max *2013-2018*
Ford Focus *2000-2018*
Lincoln MKC *2015-2017*
Mazda 3 *2004-2014*
Mazda 5 *2006-2017*
Volvo C30 *2008-2013*
Volvo S40 *2005-2011*
Volvo V50 *2005-2011*

Adjustment Range: -1.5° to +5°
Quantity: Each
Sides Adjusted: 1

REAR WHEEL

See Application Guide, pages 12-73, for specific models and years

46-2189

REAR CAMBER/TOE ARM AND CAM BOLT KIT

Allows for rear camber and toe adjustments where no OE adjustments are available.

Kia Optima *2007-2008*
Kia Rondo *2007-2010*
Hyundai Elantra *2007-2010*
Hyandai Elantra Touring *2011-2012*

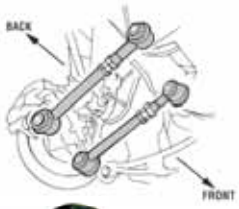
Adjustment Range: Camber ±2°, Toe ±2°
Quantity: Kit
Sides Adjusted: 1

46-2190

REAR CAMBER ARMS

- Ideal for lowered or performance vehicles!
- With OEM-style rubber bushings for a quiet ride
- Replaces non-adjustable OEM suspension arms

Honda Accord *1998-2002*
Acura 3.2 TL *1999-2003*



Adjustment Range: -1.5° to +3°
Quantity: Pair
Sides Adjusted: 1

46-2191

REAR GREASEABLE CAMBER ARM

- Allows for positive or negative rear camber and/or toe adjustment where no OE adjustments are available.
- Greaseable design for longer life

Honda Odyssey *2005-2020*

Adjustment Range: -2° to +4°
Quantity: Each
Sides Adjusted: 1

46-2192

REAR GREASEABLE CAMBER ARM

- This arm allows for positive or negative rear camber adjustments
- Greaseable design for longer life

Honda Accord *2003-2007*
Honda Odyssey *1999-2004*
Honda Pilot *2003-2008*
Acura MDX *2001-2006*
Acura TSX *2004-2008*

Adjustment Range: -2° to +4°
Quantity: Each
Sides Adjusted: 1

46-2194

REAR GREASEABLE CAMBER ARM

- Quick and easy replacement of non-adjustable OEM arm
- Turn Buckle design allows accurate controlled adjustments
- Allows for continuous future adjustments
- Greaseable Design

Honda Odyssey Touring Elite *2005-2020*

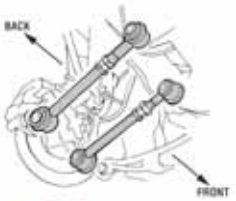
Adjustment Range: -2° to +4°
Quantity: Each
Sides Adjusted: 1

46-2195

REAR CAMBER ARMS

- Allows fast and easy "on vehicle" adjustment
- Works with factory camber adjustment

Honda Accord *2003-2007*
Acura 3.2 TL *2004-2008*
Acura TSX *2004-2008*



Adjustment Range: -1.5° to +3°
Quantity: Pair
Sides Adjusted: 1

46-2196

REAR GREASEABLE CAMBER ARM

- This arm allows for positive or negative rear camber adjustments
- Greaseable design for longer life

Acura ZDX *2010-2013*
Acura MDX *2007-2013*
Honda Pilot *2009-2015*

Adjustment Range: -2° to +4°
Quantity: Each
Sides Adjusted: 1

46-2199

REAR CAMBER/TOE ARM AND CAMBOLT KIT

Allows for positive or negative rear camber and/or toe adjustment where no OE adjustments are available.

Infiniti Q50 Sedan *2014-2020*
Infiniti Q60 *2017-2019*
Infiniti Q70 *2014-2019*
Nissan Altima *2007-2012*
Nissan Maxima *2004-2014*

Adjustment Range: Camber ±3°, Toe ±2°
Quantity: Kit
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

46-2225

REAR GREASEABLE CAMBER ARM

- Quick and easy replacement of non-adjustable OEM arm
- Turnbuckle allows for accurate controlled camber adjustments
- Allows for continuous future adjustments
- Greaseable Design

BMW 1 Series 118i,120i,125i,128i,130i,135i,135is *2007-2013*
BMW 3 Series 330i,325i,328i,335i,335xi,335d *2006-2014*

Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

46-2226

REAR GREASEABLE CAMBER ARM

- Quick and easy replacement of non-adjustable OEM arm
- Turnbuckle design allows accurate controlled adjustments
- Allows for continuous future adjustments
- Greaseable design for longer life

Lexus GS300/350 *2006-2011*
Lexus lS250/350 *2006-2013*
Lexus IS 250C *2010-2015*

Adjustment Range: ±1.5°
Quantity: Each
Sides Adjusted: 1

46-2227

REAR CAMBER ARM

- Quick and easy replacement of non-adjustable OEM arm
- Turnbuckle design allows accurate controlled adjustments
- Allows for continuous future adjustments
- OEM style bushings

Ford Fusion *2013-2019*
Lincoln MXZ *2013-2019*

Adjustment Range: ±2°
Quantity: Each
Sides Adjusted: 1

46-2228

REAR CAMBER/TOE ARM AND CAM BOLT KIT

Allows for positive or negative rear camber and / or toe adjustment where no OE adjustments are available

Infiniti G25 *2011-2012*
Infiniti G37 Coupe Active steer *2008-2014*
Infiniti G37 Sedan *2009-2013*
Infiniti M35/M45 *2006-2010*
Infiniti Q40 *2015*

Adjustment Range: Camber ±3° Toe ±2°
Quantity: Kit
Sides Adjusted: 1

46-2229
REAR GREASEABLE TOE ARM

- This kit allows for rear toe adjustment where no OE adjustments are available
- Turnbuckle design allows accurate controlled adjustments
- Greaseable design extends life of product

Toyota Rav 4 *2006-2010*
Toyota Vanguard *2007-2010 (Asia)*

Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

46-2231
REAR CAMBER ARM

- Quick and easy replacement of non-adjustable OEM arm
- Turnbuckle design allows accurate controlled adjustments
- Allows for continuous future adjustments
- OEM style bushings

Ford Fusion *2006-2012*
Lincoln Zephyr MKZ *2006-2012*
Mazda 6 *2003-2013*
Mercury Milan *2006-2010*

Adjustment Range: ±2°
Quantity: Each
Sides Adjusted: 1

46-2232
REAR UPPER CAMBER ARM

- Easy replacement of OE arm
- Allows for rear positive or negative camber adjustment where no OE adjustments are available
- Hexed turnbuckle design for fast and easy adjustments

Lexus 200T *2016-2017*
Lexus GS 350 *2013-2019*
Lexus IS 300 (AWD/RWD) *2016-2019*
Lexus IS 250 *2014-2015*
Lexus IS 350 *2014-2019*
Lexus RC 350 *2015-2020*

Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

NEW

46-2233
REAR GREASEABLE CAMBER ARM

- Turn buckle design
- Greaseable to allow for easy future adjustments
- Allows for positive or negative adjustments
- Precise controlled adjustment
- No drilling or modification required

Subaru Outback *2000-2009*
Subaru Legacy *2000-2009*

Adjustment Range: ±2°
Quantity: Each
Sides Adjusted: 1

 See Application Guide, pages 12-73, for specific models and years

46-2234

REAR WHEEL SETBACK LATERAL ARM

- Replacement for OE rear Lateral Link when Damaged
- Works with 46-2183 Adjustable Toe Arm
- Works with 46-2184 Adjustable Camber Arm
- Regains "SET BACK" changes after installation of 46-2183 and 46-2184 Camber and Toe arms.

Acura TLX (AWD) *2015-2020*
Acura TL, TSX *2009-2014*
Honda Accord *2008-2019*
Honda Crosstour *2010-2015*

Adjustment Range: ±1
Quantity: Each
Sides Adjusted: 1

46-2235

REAR GREASEABLE CAMBER ARM

- Factory arm is not adjustable
- Fully adjustable for camber change
- Turn buckle design for easy adjustments
- Greaseable to allow for easy future adjustments
- Allows for positive or negative adjustments

Nissan Altima *2013-2020*
Nissan Maxima *2016-2020*

Adjustment Range: ±2.5°
Quantity: Each
Sides Adjusted: 1

46-2236L (LEFT SIDE)
46-2236R (RIGHT SIDE)

REAR GREASEABLE CAMBER ARM

- Allows for rear positive or negative camber adjustment where no OE adjustments are available

Toyota Rav 4 *2006-2020*
Toyota Rav 4 Hybird *2016-2020*
Lexus NX *2015-2020*

Adjustment Range: ±3°
Quantity: Each
Sides Adjusted: 1

46-2237

REAR GREASEABLE TOE ARM AND CAM BOLT KIT

- Allow for rear toe adjustments where no OE adjustment are available
- Greaseable bolt for long service life and easier future adjustments
- Positive or negative 2° toe adjustments
- Greaseable turnbuckle will not seize overtime to ensure long service life and adjustability

Acura RL *1996-2004*
Honda Accord *2003-2007*
Acura CL *1997-1999*
Acura TL *1999-2003*

Adjustment Range: ±2°
Quantity: Kit
Sides Adjusted: 1

46-2238

REAR GREASEABLE CAMBER ARM

- Allows for positive or negative camber adjustment where no OE adjustment is available
- Pro Series Greaseable line
- Greaseable design prevents corrosion and allows for future adjustments to be done with ease

Honda Civic *2016-2020*
Honda CRV *2017-2020*
Honda Insight *2019-2020*

Adjustment Range: -3° to +6°
Quantity: Each
Sides Adjusted: 1

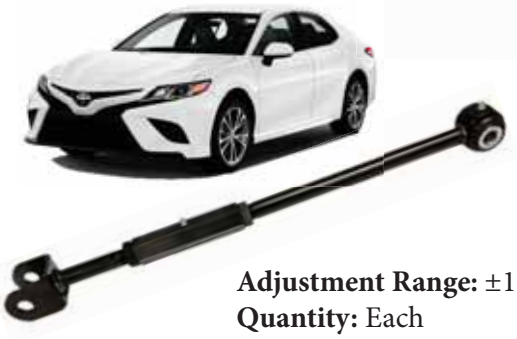
NEW

46-2239

REAR GREASEABLE TOE ARM

- Adjustable rear toe arm
- Greaseable for long service life
- Will not seize like OE arm
- Very popular application

Toyota Camry/Hybird *2012-2017*
Toyota Avalon/Hybird *2013-2020*



Adjustment Range: ±1°
Quantity: Each
Sides Adjusted: 1

NEW

46-2241

REAR GREASEABLE TOE ARM

- Turn buckle design
- Greaseable to allow for easy future adjustments
- Allows for positive or negative adjustments
- Precise controlled adjustment
- No drilling or modification required

Lincoln MKS *2009-2012*
Lincoln MKT *2010-2019*
Ford Flex *2009-2020*
Ford Taurus *2010-2018*

Adjustment Range: ±2.5°
Quantity: Each
Sides Adjusted: 1

NEW

46-2242

REAR GREASEABLE TOE ARM

- Turn buckle design
- Greaseable to allow for easy future adjustments
- Allows for positive or negative adjustments
- Precise controlled adjustment
- No drilling or modification required

Buick Lacrosse/Allure *2005-2009*
Chevrolet Impala/Monte Carlo *2000-2005*

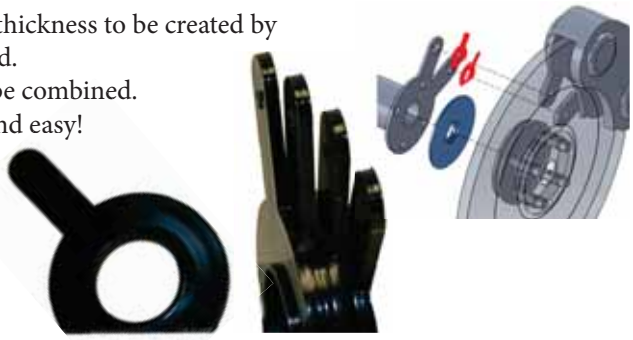
Adjustment Range: ±1.75°
Quantity: Each
Sides Adjusted: 1

See Application Guide, pages 12-73, for specific models and years

46-2450A REAR DISC BRAKE CALIPER SPACER - ASSORTMENT

When installing rear camber/toe shims, many rear disc brake systems require the caliper to be shimmed to match the angle of the rotor . In most instances, this angle can be achieved by using Northstar Manufacturing's new "Stackable/Interlocking" caliper spacers.

- Unique snap-together design allows required thickness to be created by interlocking as many or as few spacers as needed.
- Two different thicknesses available - and can be combined.
- Special "finger tab" makes installation quick and easy!
- 24 per assortment (12 of each size)



Individual sizes available separately

46-2454 .04 Thickness (pkg of 12)
46-2456 .06 Thickness (pkg of 12)

REAR CAMBER/TOE STEEL HALF SHIMS

These close-tolerance half shims are the ideal low cost alternative to full contact dual angle rear shims when only one angle needs correction.

- Most economical to use
- Accurately adjusts camber or toe
- Stackable
- Available in four thicknesses .010", .020", .030"
- 12 per package

46-2000

Part	Camber	Toe
46-2010	1/4°	1/16"
46-2015	3/8°	3/32"
46-2020	1/2°	1/8"
46-2030	3/4°	3/16"

46-3000

Part	Camber	Toe
46-3015	3/8°	3/32"
46-3020	1/2°	1/8"
46-3030	3/4°	3/16"

46-4000

Part	Camber	Toe
46-4010	1/4°	1/16"
46-4015	3/8°	3/32"
46-4020	1/2°	1/8"
46-4030	3/4°	3/16"

46-5000

Part	Camber	Toe
46-5010	1/4°	1/16"
46-5015	3/8°	3/32"
46-5020	1/2°	1/8"
46-5030	3/4°	3/16"

REAR SUSPENSION SHIM

46-6020	1/32”
46-6030	1/16”
46-6040	1/8”

Corvette *1963-1982*

REAR CAMBER/TOE SHIM PACK

	Thickness	Qty
46-7110	.010”	12
46-7115	.015”	12
46-7120	.020”	12
46-7130	.030”	12

Chevrolet Cruze *2011-2017*
Chevrolet Spark *2011-2017*
Chevrolet Aveo *2012-2014*
Chevrolet Sonic *2014-2017*
Buick Verano *2012-2017*

SHIM PACK ASSORMENT

46-7100A

Assortment contains 12 of each size

REAR WHEEL

46-7300 Series

REAR CAMBER/TOE STEEL HALF SHIM

- Accurately adjust camber and or toe angles
- Stackable
- Available in 4 thicknesses:

	Thickness	Qty
46-7310	.010”	12
46-7315	.015”	12
46-7320	.020”	12
46-7330	.030”	12

Fiat 500 *2012-2017*
Fiat 500L *2012-2017*

 See Application Guide, pages 12-73, for specific models and years

Problem: Non-GREASEABLE OE tie rod ends prematurely wear and fail

Solution: Northstar Manufacturing's rear replacement links have a GREASEABLE tie rod end to help extend overall life.

46-9811

COMPLETE REAR SUSPENSION LINK ASSEMBLY WITH 17MM SOCKET STUD

Built 3/4/02 or After

Ford Explorer 2WD/4WD *2003-2005*
Lincoln Aviator 2WD/4WD *2003-2005*
Mercury Mountaineer 2WD/4WD *2003-2005*

46-9812

COMPLETE REAR SUSPENSION LINK ASSEMBLY WITH 15MM SOCKET STUD

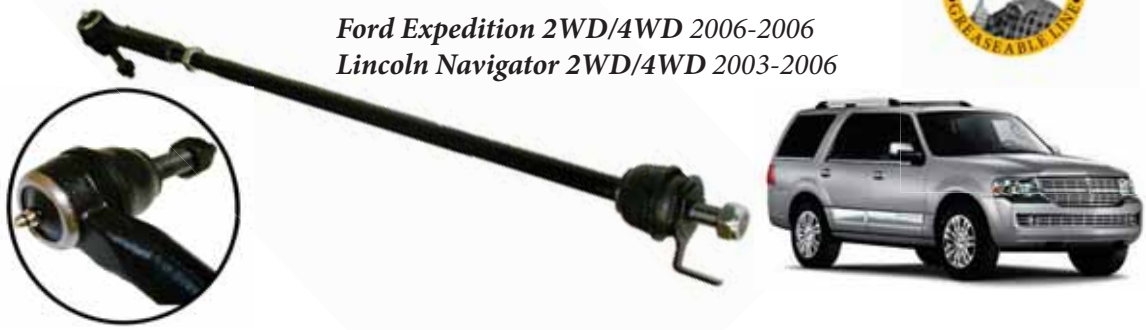
Built Before 3/4/02

Ford Explorer 2WD/4WD *2002*
Mercury Mountaineer 2WD/4WD *2002*

46-9813

COMPLETE REAR SUSPENSION LINK ASSEMBLY

Ford Expedition 2WD/4WD *2006-2006*
Lincoln Navigator 2WD/4WD *2003-2006*



REAR WHEEL

3/8" DRIVE TORX BIT FOR GM VEHICLES

These tools are designed to line up holes in engine cradle with locating holes in frame. Set contains two of each size

88-050

3/8" drive torx bit is necessary for removal of rear hub and bearing assemblies on most 1980 and newer GM vehicles

88-060

1/2" drive torx bit is necessary for removal of front caliper mounting bolts on 1988 and newer GM W body cars.

88-343

MICRO SHEAR REAR SHIM TAB CUTTER

This cutter tool is designed to easily remove the tabs from out rear-wheel full contact/dual angle shims. Removes only those you need removed. Works equally well on both the original design or the system 2000 universal design.

88-569

FRONT WHEEL DRIVE AXLE REMOVING TOOL

- Universal design allows axle removal on FWD vehicles
- Offset leg design clears hub housing
- Multi-fit base plate will fit either four or five lug design

88-882

WHEEL WEIGHT HAMMER

This passenger car wheel weight installation tool is the industry standard. Plastic-coated handles provide a better grip

88-890

WHEEL PROTECTOR WHEEL WEIGHT PLIERS

"Soft-Head" design allows installation and removal of coated weights without damage to wheel or wheel weight coating.

88-928

PEDAL DEPRESSOR

This unit produces contant pressure on the pedal. The adjustable steel plate extends the length of the bar.

See Application Guide, pages 12-73, for specific models and years

88-938
STEERING WHEEL HOLDER

This unit securely centers the steering wheel during alignments. The covered hooks and base prevent damage to the steering wheel or seat covers.

88-1101
LUG NUT COVER TOOL

Removes and installs chrome lug nut covers from both heavy-duty and medium-duty truck wheels

- Non-mar coating will not scratch chrome
- Fits both round and hex covers
- Made in USA

88-1103
WHEEL WEIGHT HAMMER

Used for the installation of coated passenger car wheel weights. This hammer features a unique "soft-head" acetate hammer face. The caster steel head has an enamel finish, and the rear-mounted hardened steel "Clip Claw" horn quickly removes old weights. The horns are replaceable. An essential tool for coated wheel weights.

88-1103-1 replacement soft head
88-1103-2 replacement hook

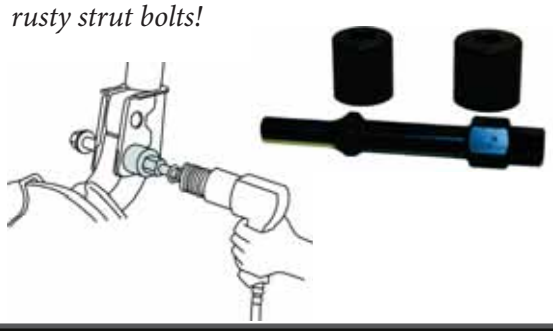
BOLT/NUT REMOVING TOOL

Removes even the most stubborn bolts with ease. This tool is designed to work in conjunction with a zip gun (to providevibration) while being turned with an open-end or box wrench.

	Size	Works especialy well on
88-1110	3/8"	GM hub & bearing assembly T50 torx mounting bolts
88-1112	1/2"	GM brake caliper T60 torx mounting bolts

88-1114
STRUT BOLT REMOVER DRIVER SET

Ideal for removing rusty strut bolts!



88-1302
TAURUS/SABLE SEDAN REAR TOE/CAMBER ADJUSTING TOOL

This specially-designed tool easily adjusts aftermarket offset bushing for accurate adjustment of camber/toe

Ford Taurus, Mercury Sable sedan *1986-2002*

88-1304

HONDA/ACURA/MITSUBISHI ADJUSTABLE BALL JOINT ADJUSTING WRENCH

This 1-5/8" open-end wrench makes adjusting the import ball joint a snap!

Works with 41-229 through 41-550 ball joints

88-1637

VALVE STEM INSTALLATION TOOL

- Made of rugged non-marring polymer
- Handles any length valve in any size rim

88-2400

LUG NUT REMOVER SET

A simple, effective method for removing wheel lug nuts when the key is not available. Also removes damaged lug nuts. Tapered left-hand threads grip tapered or straight lug nuts. Two sizes fit most nuts. Also works on hex nuts. Use with 1/2" drive impact tool.

88-2401 Lug nut remover-small
88-2402 Lug nut remover-Large

88-4014-10

BRAKE LATHE PREMIUM CARBIDE CUTTING INSERTS

AMMCO 3000, 4000, 4100, 6900, 7000, 7700 MODEL LATHES

- 10 cutting tips and mounting screws per package
- 6 cutting surfaces per tip

88-4036

DRUM SILENCER BAND

This silencer is made of natural rubber and is secured by a buckle so it will fit all sizes of passenger car drums.

88-4039

SILENCER BAND-SMALL

88-4040

SILENCER BAND-LARGE

88-4030

UNIVERSAL SILENCER FOR VENTED ROTOR

This silencer band is made of natural rubber with lead weight inserts attached to deaden vibration and chatter. Fits any size vertical rotor.

88-4041

BRAKE ROTOR CHATTER SILENCER

This silencer snaps on in seconds. The two metal "antennas" are positioned behind the cutters to hold the tool where chatter starts.

See Application Guide, pages 12-73, for specific models and years

GRINDING PADS FOR PRO-FINISHER NON-DIRECTIONAL ROTOR FINISHING TOOL

25 pieces per package

88-4080	80 grit
88-4120	120 grit
88-4150	150 grit

88-4087-10

BRAKE LATHE PREMIUM CARBIDE CUTTER

ALL FMC LATHES

- 10 cutting tips and mounting screws per package
- 6 cutting surfaces per tip

88-4096-10

BRAKE LATHE PREMIUM CARBIDE CUTTER INSEERTS

ALL ACCUTURN DISC/DRUM

- 10 cutting tips and mounting screws per package
- 6 cutting surfaces per tip

ROTARY FILE

These high-quality rotary files are great time-savers when elongating lower strut mount holes to install alignment kits. May be used with 1/4" or 3/8" electric or air drill. Dozens of other uses.

88-4510	1/4"	**88-4511**	3/8"
88-4512	5/8"	**88-4513**	Set

TAURUS/SABLE SPOT WELD CUTTERS WITH ARBOR

For use with air tool in cutting spot welds holding OE alignment plates on top of strut towers found on Ford Taurus/Mercury Sable vehicles.

Size	Cutter w/arbor	Cutter only
1/2"	**88-4519**	**88-4521**
3/8"	**88-4520**	**88-4522**

88-6084

PITMAN ARM ADJUSTING TOOL

- Fits 1-7/16" diameter adjusting sleeves
- Permits 360° rotation of pitman arm clearance where space is limited
- 1/2" square drive for ratchet or breaker bar
- For use on 3/4-1 ton trucks, including Ford Super Duty

88-6274
TIRE ROD ADJUSTING TOOL

- Fits 1-13/16" diameter adjusting sleeves
- Permits 360° rotation of Pitman arm even where space is limited
- 1/2" square drive for ratchet or breaker bar
- For use on 3/4" and 1-ton trucks, including Ford Super Duty

88-6275
TIRE ROD ADJUSTING TOOL SET

Allows use of 1/2" drive ratchet or breaker bar for maximum leverage.

88-6084	1-7/16"
88-6274	1-13/16"
88-7095	3/4"
88-7096	1"
88-7097	1-1/8"

88-6496
PITMAN ARM PULLER

- Labor intensive removal of steering sector not necessary
- Compact design allows easy access to the pitman arm
- Works on most domestic SUVs and pickups

88-7023
TIE ROD TOOL

Unique four-position feature lets you locate tool to grip sleeve properly even when access is limited. Permits 360° rotation of tie rod sleeve. Universal design fits most passenger car models, as well as light trucks

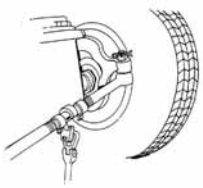
88-7090
1/2" DRIVE BALL JOINT SPANNER WRENCH

- Designed for removal and instalation of ball joint adjusting sleeves on 1/2"-3/4", and 1-ton Dana open yoke front axles used on Ford, GM, Chrysler, IHC and Jeep 4WD vehicles
- Permits easy torquing with 1" socket for proper upper ball joint preload

Also for use with the 44-2460 and 44-2480 series bushings.

TIE ROD ADJUSTING TOOL SET

Unique design allows use of 1/2" drive ratchet or breaker bar for maximum leverage.



88-7095	3/4" for compact vehicles
88-7096	1" for standard vehicles
88-7097	1-1/8" for light trucks

See Application Guide, pages 12-73, for specific models and years

88-7098

FORD SUPER DUTY TIE ROD TOOL

- Accurately machined to fit the large toe-adjusting sleeve and steer-ahead sleeve
- Wide jaw fits into split in sleeve for positive grip without slippage or tearing
- Long lever arm helps break loose stubborn, rusted sleeves
- Full 360° rotation

88-7099

TIE ROD ADJUSTING TOOL

Features 360° sleeve rotation without removing tool from tie rod, and has an eight-position feature for proper tool location.

88-7100A

1994-1997 CHRYSLER LH MODEL TOE ADJUSTING TOOL SET

This set contains:

88-7101 TIE ROD SOCKET

Special offset socket allows easy access to sleeve nuts and breaks loose even the most stubborn tie rod sleeve jam nuts.

88-7102 TIE ROD END STABILIZER

This holding tool prevents the tie rod end from "cocking" during adjustment, ensuring correct toe setting.

88-7103 TIE ROD END SLEEVE ADJUSTING WRENCH

This specially designed adjusting tool has the proper angle and length to easily reach and turn tie rod sleeves for adjustment.

88-7200A

1998 TO 2005 CHRYSLER LH MODEL TOE ADJUSTING TOOL SET

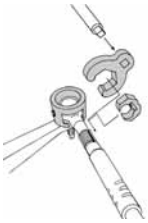
This set contains:

88-7201 TIE ROD END SLEEVE ADJUSTING TOOL

This specially designed tool has a hardened tab to fit into the slot of the tie rod sleeve and an inside diameter machined to match the sleeve.

88-7102 TIE ROD END STABILIZER

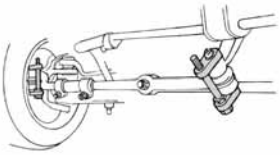
This holding tool prevents the tie rod end from "cocking" during adjustment, ensuring correct toe setting.



88-7203 TIE ROD SLEEVE OUTER WRENCH

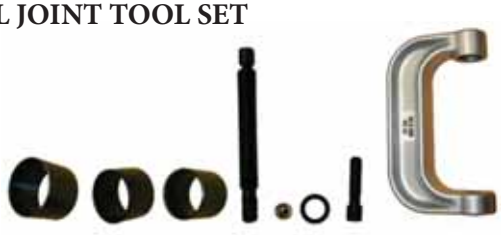
This special wrench is designed to fit over the adjusting tool to loosen and turn the tie rod sleeve to the proper toe setting.

88-7205
TIE ROD STABILIZER SET



This tool set is designed to center tie rod ends in their sockets when setting toe. This will help in obtaining a straight steering wheel, insuring proper steering performance and maximum tire life.

88-7249
BALL JOINT TOOL SET



The tools in this set will press in or out most sizes of press-fit ball joints. The C-frame press can also be used alone to remove and replace universal joints.

88-7301
POSITIVE LOCK UNIVERSAL INNER TIE ROD SOCKET

Allows fast and easy replacement of inner tie rod end without removing the rack and pinion.

Fits domestic and foreign vehicles with inner tie rods up to 42mm outer diameter.

Adjusts to fit all styles of inner tie rods (round, square, flat or hex) without slipping!

88-7425 GM & FORD MINI VAN ALIGNMENT WRENCH SET

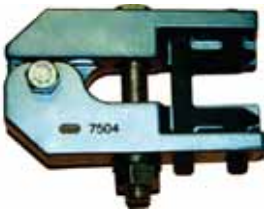
88-7414	13/16"	1995 and newer Ford Aeorostar vans
88-7534	22mm	1990 and newer 2WD GM Astro/Safari vans and newer AWD
88-7536	3/4"	1973-1987 GM 2WD pickups and 1985 and newer Canadian-built astro
88-7537	18mm	1985 and newer US-built Astro vans

88-7491 GM UPPER CONTROL ARM KNOCK OUT TOOL

- Required to remove factory frame knock-outs
- Won't damage alignment bracket, as can happen when you use a pry bar to remove the knock-out plug

Chevrolet and GMC trucks, and Chevrolet Astro and GMC Safari vans *1988-2000*

88-7504 INNER TIE ROD CRIMPING TOOL



This handy tool works on all GM and Chrysler vehicles with Saginaw steering gears. It allows the technician to crimp the new tie rod housing onto the rack to keep it from coming loose.

 See Application Guide, pages 12-73, for specific models and years

88-7704

ADAPTERS FOR FOUR WHEEL DRIVE

This kit is used to [illegible] and install upper and lower ball joints on 1967 to 1992 1/2 and 3/4-ton vehicles fitted with Dana 44 front axles (found on Ford, Dodge, GM, International and Jeep vehicles).

88-7800A

1998-2011 HONDA 1995-2000 CHRYSLER SEBRING UPPER BALL JOINT ADAPTER SET

Set contains one each of:

88-7801	Honda ball joint installation cup
88-7802	Honda ball joint installation ram
88-7803	Chrysler ball joint installation cup
88-7804	Chrysler ball joint installation ram

Also works with 88-7850A

88-7813

IMPORT VEHICLE TWO-IN-ONE TIE ROD ADJUSTING WRENCH

- This special open-ended wrench has extended length for easy access.
- 21mm opening on the end and 22mm opening on the other.

88-7822-1

DODGE/FORD TRUCK TORSION BAR TOOL ADAPTER

This unique bracket is used on the vehicle cross member to provide a safe, secure anchor point while using the 88-8000 GM Torsion Bar Tool (sold separately). This bracket works on all full size Ford & Dodge light duty trucks with torsion bar suspension - a "must have" tool for any shop replacing torsion bar keys.

88-7829

FORD TRUCK CAMBER/CASTER WRENCH

Specially designed wrench makes camber/caster adjustments on Ford's new adjusting cams much easier. Wrench is bent for specific fit on the adjusting bold and nut. 21mm, 12-point design and 1/2" square drive.

Ford Explorer 4x4 *1995-2002*
F150 4x4 and 4x2 *1997 and 2003*
Expedition and Lincoln Navigator 4x4 and 4x2 *1997 and 2002*
GMC Savana and GM Express *1997 and up*

88-7850A UNIVERSAL BALL JOINT/U-JOINT PRESS SET

- Fits most press-fit ball joint applications (passenger cars as well as 2WD and 4WD light trucks)
- Powerful screw-type press, together with the special adapters, will easily remove and install even the most difficult ball joints
- By itself, the C frame press is designed to easily remove and install universal joints

This tool set is a must for every alignment shop!

Set contains one of each part

88-7901		Removal tube
88-7902		Installation tube
88-7903		Removal plug
88-7904		Universal installation adapter
88-7905		Snap-on adapter stem
88-7906		OTC tool adapter stem
88-7907		Installing adapter
88-7908		Removing adapter
88-7909		Receiving tube (3” OD x 2-3/4” ID)
88-7910		Receiving tube (2-1/2” OD x 2-3/4” ID)
88-7911		Receiving tube (2” OD x 1-3/4” ID)
88-7912		Forcing screw
88-7913		5/8” steel ball
88-7914		O ring
88-7915		Plug
88-7916		C Frame

TOOLS

See Application Guide, pages 12-73, for specific models and years

88-7860A

HONDA REAR ADAPTER SET

Designed for easy removal of OE bushings and installation of offset camber bushings. Works with all types of ball joint presses.

Set contains one each of:

88-7861	88-7862
88-7863	88-7864

88-7870C

1996-2005 TAURUS/SABLE BALL JOINT ADAPTER SET (UPDATER 4-PIECE SET)

Unique design easily removes and installs even the most stubborn ball joints.

Set contains one each of:

88-7871	88-7872
88-7873	88-7874

88-7880A

LATE MODEL CHRYSLER/DODGE BALL JOIN ADAPTER SET

Fits most popular "C" clamp style ball joint service tools

Set contains one each of:

88-7881	88-7882
88-7883	88-7884

Works with 41-232 Chrysler 300 and Dodge Charger/Challenger ball joint through 2016

88-7890A

HONDA ACCORD BALL JOINT ADAPTER SET

Set contains one each of:

88-7891	88-7892	88-7902

Acura TSX *2004-2011*
Honda Accord Coupe Sedan *2003-2012*

88-7900A
LIGHT TRUCK BALL JOINT PRESS ADAPTER SET

Works with all popular screw type ball joint presses and makes easy work of ball joint removal and installation on all late model 2WD and 4WD using Dana 44 front axles

GMC and Chevrolet *1997-1991*
Ford *through 1979*
Dodge *1994-1999*
Jeep *through 1983*

88-7901	88-7902	88-7903
88-7904	88-7905	88-7906

This set is included in the 88-7850A

88-7950A
GM TRUCK BUSHING INSTALLATION/ REMOVAL ADAPTER SET

This adapter set is designed to easily remove OE control arm bushings and install offset camber bushings

Set contains one each of:

88-7951	88-7952
88-7953	88-7954

GMC and Chevrolet 1/2-and 3/4-ton 4WD/2WD and Hummer H2 *1999-2016*

88-7959A INNER TIE ROD REMOVAL SET

88-7572	Socket	Older Ford and Chrysler vehicles
88-7593	1-3/16" adapter	with socket for Ford FWD with rack and pinion power steering with new-style tie rods
88-7594	1-5/16" adapter	with socket for Ford RWD and most Chrysler vehicles with rack and pinion and new-style tie rods

88-7996A BUSHING REMOVAL AND INSTALLATION TOOL

Buick Regal *2008-2016*
Chevrolet Traverse *2008-2016*
GMC Acadia *2007-2016*
Saturn Outlook *2007-2016*

This tool is designed to be used in conjunction with the 46-421 Rear Link Flex Joint Bushing. Allow fast and easy removal and installation of the bushing.

88-8000A UNIVERSAL TORSION BAR UNLOADING TOOL SET

- including new 2011 GM 8-lug models!

Safety loads, unloads 5-lug, 6-lug GM, Dodge and Ford torsion bars for key replacement

88-8350 GM "J" BODY TOE ADJUSTMENT WRENCH

This specially designed 19mm toe wrench allows easy access and adjustment on all 1982 and newer GM J body cars

TOOLS

See Application Guide, pages 12-73, for specific models and years

88-8923

GM "W" BODY REAR TOE ADJUSTING TOOL

Allows wasy adjustment of factory rear toe system.

Buick Regal *1990-2002*
Chevrolet Lumina *1990-2002*
Oldsmobile Cutlass Supreme *1990-2002*
Pontiac Grand Prix *1990-2002*

88-8925

CAMARO/FIREBIRD TOOL 1993-2002

Heavy-duty design allows both camber and caster adjustment with weight on vehicle. Designed for accurate, one-time adjustment.

88-8927

CAMBER/CASTER ADJUSTING TOOL FORD LIGHT TRUCK

- Makes difficult-to-adjust vehicles fully adjustable for camber/caster
- Unique design allows fast and easy "on-vehicle" adjustments
- Works with OE bolt system, eliminating the need for expensive aftermarket cam bolts

Ford F150 2WD/4WD *2004-2011*
Expedition/Navigator *2007-2011*

88-8928

CAMBER/CASTER ADJUSTING TOOL DODGE RAM

This innovative tool allows for live adjustment of camber/caster on 4x4 and 4x2 vehicles. It offers fast, easy hook up, and the jaws allow for smooth, controlled adjustments.

Dodge Ram 1500 *2002-2005*

88-8929

CAMBER/CASTER ADJUSTING TOOL SET GM TRAILBLAZER/ENVOY

- Makes difficult-to-adjust vehicles fully adjustable for camber and caster
- Design allows fast and easy, smooth and accurate one-time adjustment
- Allows adjustment of camber and caster with no need of pry bar

Chevrolet Trailblazer *2002-2009*
GMC Envoy *2003-2009*

88-9065

REAR TOE ADJUSTER TAURUS/SABLE WAGON

Use with 1/2" drive for OE toe adjusters on all 1986-1995 Ford Taurus and Mercury Sable station wagons.

88-9066

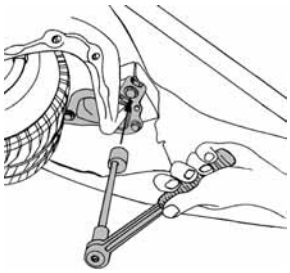
REAR TOE ADJUSTING TOOL FORD

This special tool is designed to fit the larger 2-1/2" star-shaped toe adjusting cam found on the rear of late-modle Ford products. It provides the leverage needed to easily make accurate rear toe adjustments.

Ford Taurus *1996-2004*
Mercury Sable station wagon *1996-2004*
Lincoln Continental *1995-2002*

88-9180

REAR TOE ADJUSTING TOOL BMW



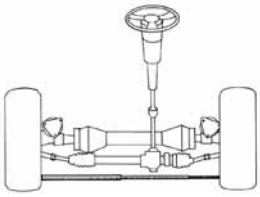
BMW 3 Series *2001-2006*
Series E36 *1992 and newer*
All models with sport suspension except 318Ti and Z3 1995 and newer

TOOLS

See Application Guide, pages 12-73, for specific models and years

88-9188
WHEEL SPREADER

- Accurately spreads and holds the vehicle's front wheels.
- A must for Mercedes
- Easy and Effective
- The spreader saves time and assures a more accurate reading
- Extension 42" minimum, 71" maximom

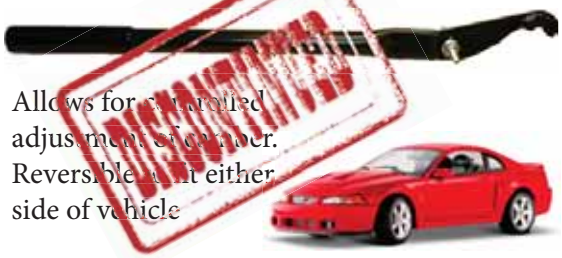


88-9200
REAR TOE ADJUSTER FORD/MERCURY

For adjustment of rear toe bushings

Taurus/Sable *1996-2007*
Tempo/Topaz sedans *1996-2007*

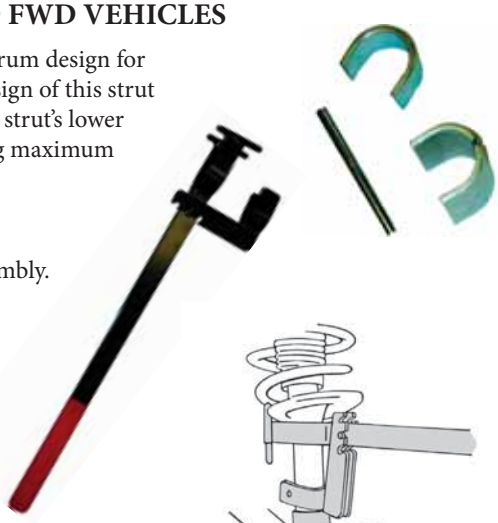
88-9414
CAMBER TOOL LATE MODEL MUSTANG



Allows for [illegible] adjustments of camber.
Reversible [illegible] either side of vehicle

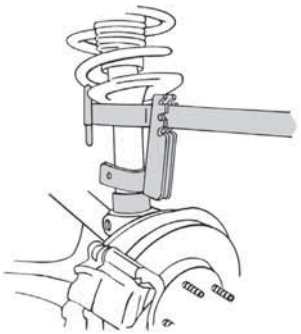
88-9416 STRUT REMOVAL TOOL FOR FORD FWD VEHICLES

- This innovative new strut removal tool features a lever and fulcrum design for fast and easy removal of even the most stubborn struts. The design of this strut removal tool incorporates a long lever arm working against the strut's lower spring plate with a fulcrum pushing the knuckle down, creating maximum leverage to free the bottom of the strut from the knuckle.
- Cuts strut removal time by 60% or more!
- Comes complete with instructions and instructional videotape showing tool in use, as well as time-saving tips for strut re-assembly.



88-9416-1 Lever arm
88-9416-2 Fulcrum
88-9416-3 Short collar
88-9416-4 Slotted collar
88-9416-5 Holding pin

Tauras, Sable (F&R) *1986-2007*
Contour/Mystique (F&R) & Windstar van (F) *1995-2000*
Cougar (F&R) *1999-2002*



***Based on actual test results at our test facility, when compared to factory flat rate times**

88-9480

MAGNETIC CAMBER CHANGE GAUGE

This portable, accurate magnetic gauge attaches firmly to spindles or rotors and is the perfect tool to measure camber change when doing strut work or when truck alignment bushings or other camber kits are installed. Dial back to reset to Zero.

AUTOMOTIVE SEPARATORS

Part	Application	Specifications
88-25050	Fits most tie rod ends	1-1/8" opening
88-25030	Fits most ball joints	15/16" opening
88-25010	Fits most pitman arms	21/32" opening

For loosening and removal of tie rod ends, balljoints and pitman arms. All tools 11-7/8" overall length.

88-35824

2" COARSE-TYPE"R" SURFACE PREP PAD

Our high-performance surface prep products are manufactured from a tight non-woven fiber web with a woven backing, and are impregnated with a specially processed mineral grain. They are ideal for deburring, blending coarse abrasive scratches; and removing rust, corrosion, oxides, paint, adhesives and gaskets.

2" Gold Type R Coarse Gift - 50 per package

88-58122

22MM CONTROL ARM ALIGNMENT WRENCH

Older GM and Chrysler RWD passenger cars

 See Application Guide, pages 12-73, for specific models and years

TORQUE SOCKETS

These impact driven sockets assure proper torquing of lug nuts ***They also:***

- Stops tightening when proper torque is achieved
- Eliminate broken and stripped studs
- Eliminate warped or distorted rotors, wheels and brake parts
- Eliminate customer complaints concerning improperly torqued lug nuts
- Are manufactured for the finest spring steel using an exclusive Swedish process

88-6040 10 PIECE TORQUE SOCKET SET

Covers over 90% of most popular passenger car and light truck applications!

Contains one each of the following

88-6010	**88-6011**	**88-6010**	**88-6013**	**88-6014**
88-6016	**88-6017**	**88-6016**	**88-6019**	**88-6025**

88-6005 **5 PIECE TORQUE STICK EXTENSION KIT**

½" drive torque stick extension kit for foreign and domestic cars and light trucks - used with ½" impact wrench and thin wall socket.

- Eliminates wheel damage with torquing wheel nuts with tight tolerances
- Prevents over-torquing wheel nuts
- Prevents brake pulsation
- Prevents distortion of wheels, drums and rotor

Contains one each of the following

88-6027	**88-6028**
88-6029	**88-6030**
88-6031	

INDIVIDUAL SOCKETS AND STICKS AVAILABLE

88-6010	17mm	Green	55 ft/lbs	**88-6021**	1"	Purple	140 ft/lbs
88-6011	17mm	Red	80 ft/lbs	**88-6022**	Discontinued		170 ft/lbs
88-6012	19mm-3/4"	Yelllow	65 ft/lbs	**88-6023**	1-1/16"	Tan	140 ft/lbs
88-6013	19mm-3/4"	Blue	80 ft/lbs	**88-6023**	22mm-7/8"	Lt. Blue	100 ft/lbs
88-6014	19mm-3/4"	Grey	100 ft/lbs	**88-6025**	24mm-15/16"	Lt. Green	140 ft/lbs
88-6015	21mm	Black	60 ft/lbs	**88-6026**	22mm	Charcoal	150 ft/lbs
88-6016	21mm	LT. Brown	80 ft/lbs	**88-6027**	½"Drive	Yellow	65 ft/lbs
88-6017	13/16"	Brown	100ft/lbs	**88-6028**	½" Drive	Blue	80 ft/lbs
88-6018	22mm-7/8"	White	120 ft/lbs	**88-6029**	½" Drive	Gray	100 ft/lbs
88-6019	22mm-7/8"	Turquoise	140 ft/lbs	**88-6030**	½" Drive	White	120 ft/lbs
88-6020	discontinued		170 ft/lbs	**88-6031**	½" Drive	Aqua	140 ft/lbs

THIN WALL DESIGN 1/2" DRIVE FLIP IMPACT SOCKETS

88-1510	Extra thin wall SAE 3/4" x 13/16"	6 pt deep length
88-1511	Extra thin wall 19mm x 21mm	6 pt deep length
88-1512	Regular think wall SAE 3/4" x 13/16"	6pt deep length
88-1513	Regular thin wall 19mm x 21mm	6pt deep length

CONVERSION CHART

INCHES		DEGREES		METRIC	MINUTES OF A DEGREE
1/32”	0.031	1/16°	0.0625	0.8	3.75’
1/16”	0.063	1/8°	0.1250	1.6	7.50’
3/32”	0.094	3/16°	0.1875	2.4	11.25’
1/8”	0.125	1/4°	0.2500	3.2	15.00’
5/32”	0.156	5/16°	0.3125	4.0	18.75’
3/16”	0.188	3/8°	0.3750	4.8	22.50’
7/32”	0.218	7/16°	0.4375	5.6	26.25’
1/4”	0.25	1/2°	0.5000	6.4	30.00’
9/32”	0.281	9/16°	0.5625	7.1	33.75’
5/16”	0.312	5/8°	0.6250	7.9	37.50’
11/32”	0.343	11/16°	0.6875	8.7	41.25’
3/8”	0.375	3/4°	0.7500	9.5	45.00’
13/32”	0.406	13/16°	0.8125	10.3	48.75’
7/16”	0.437	7/8°	0.8750	11.1	52.50’
15/32”	0.468	15/16°	0.9375	11.9	56.25’
1/2”	0.500	1°	1.0000	12.7	60.00’
17/32”	0.531	1-1/16°	1.0625	13.5	1° 3.75’
9/16”	0.562	1-1/8°	1.1250	14.3	1° 7.50’
19/32”	0.593	1-3/16°	1.1875	15.1	1° 11.25’
5/8”	0.625	1-1/4°	1.2500	15.9	1° 15.00’
21/32”	0.656	1-5/16°	1.3125	16.7	1° 18.75’
11/16”	0.687	1-3/8°	1.3750	17.5	1° 22.50’
23/32”	0.718	1-7/16°	1.4375	18.3	1° 26.25’
3/4”	0.750	1-1/2°	1.5000	19.0	1° 30.00’

See Application Guide, pages 8-73, for specific models and years

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See Application Guide, pages 8-73, for specific models and years

Ph: 800-828-0255
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NORTHSTAR MANUFACTURING COMPANY, INC.

BEST SELLERS & NEW PRODUCTS

HOT & NEW

RAM 1500
4WD (w/o air susp.)
2019
P/N : 74-2200R
FRONT LIFT RANGE : 1.5" - 2.25"
TIRE/WHEEL : UP TO 34"

GM SILVERADO/SIERRA
2500 & 3500
4WD
2011 - NEWER
P/N : 64-1404G

GM SILVERADO/SIERRA 1500
2WD/4WD
2019
P/N : 75-1060G
FRONT LIFT RANGE : 0.875" - 2.5"
TIRE/WHEEL : UP TO 33"

H.D. 8-LUG
2WD/4WD
2011 - NEWER
P/N : 64-1400G
FRONT LIFT RANGE : OEM" - 2.25"
TIRE/WHEEL : UP TO 33"

GM L.D. 1500
2WD/4WD
2014 - NEWER
(W/O JL4 SUSP.)
P/N : 74-1500G
FRONT LIFT RANGE : 2.25" - 3.0"
TIRE/WHEEL : UP TO 32"

RAM 1500
4WD
2006 - NEWER
P/N : 74-2000D
FRONT LIFT RANGE : 2.0" - 3.0"
TIRE/WHEEL : UP TO 35"

RAM POWER WAGON
4WD
2015 - 2019
P/N : 74-2560R
FRONT LIFT RANGE : 1.5" - 2.5"
TIRE/WHEEL : UP TO 35"

F150/NAVIGATOR/MARK LD
2WD/4WD
2004 - NEWER
P/N : 74-3000F
FRONT LIFT RANGE : 2.0" - 3.0"
TIRE/WHEEL : UP TO 35"

F150/NAVIGATOR
2WD/4WD
2004 - NEWER
RAPTOR (2017-2018)
P/N : 74-3200F
FRONT LIFT RANGE : 1.5" - 2.25"
TIRE/WHEEL RAPTOR: UP TO 35"
TIRE/WHEEL F150/NAVIGATOR: UP TO 32"

L.D. 6-LUG
2WD/4WD
2007 - NEWER
(INCL. W/JL4 SUSP.)
P/N : 75-1050G
FRONT LIFT RANGE : 0.875" - 2.5"
TIRE/WHEEL : UP TO 32"

GM L.D. 6-LUG ECONOMY KIT
2WD/4WD
2007 - NEWER
(INCL. JL4 SUSP.)
P/N : 75-1055G
FRONT LIFT RANGE : 0.875" - 1.75"
TIRE/WHEEL : UP TO 32"

L.D. 6-LUG
2WD/4WD
2007-2013
(W/O JL4 SUSP.)
P/N : 74-1000G
FRONT LIFT RANGE : 2.0" - 3.0"
TIRE/WHEEL : UP TO 32"

F250/F350/F450/F550
SUPER DUTY
4WD
P/N : 71-3500F
FRONT LIFT RANGE : 2.0", 2.5"
TIRE/WHEEL : UP TO 37"

MODEL	YEAR
F250/F350	2005-NEWER
F450/F550	2008-2015

UNIVERSAL TORSION BAR LOAD/UNLOAD TOOL SET
P/N : 88-8000A
• SAFETY LOADS, UNLOADS 5-LUG, 6-LUG & 8 LUG GM, DODGE & FORD TORSION BARS FOR KEY REPLACEMENT, INCLUDING 2011-UP GM 8-LUG MODELS.
• FORGED DESIGN

ProRYDE QUICK-REFERENCE APPLICATION GUIDE									
			FRONT LIFT/LEVELING KIT			REAR LIFT KIT			
Make/Model	Year	2WD/4WD	Susp. Type	Front Kit Part No.	Front Lift Range	Susp. Type	Rear Kit Part No.	Rear Lift Range	Max. Tire Diameter
CADILLAC, CHEVROLET, GMC									
Avalanche 1500 (6-Lug)	2002-06	4WD	Torsion	64-1000G	Up to 3.0"	Coil	56-1100G*	1.0", 1.5", 2.0"	33"
Avalanche 1500 (6-Lug)	2007-13	2WD/4WD	Strut	75-1055G* 75-1050G* 74-1000G (3)	.0875" to 1.75" .0875" to 2.5" 2.0" to 3.0"	Coil	56-1100G*	1.0", 1.5", 2.0"	32"
Avalanche 2500 (8-Lug)	2002-10	2WD/4WD	Torsion	64-1200G	Up to 2.5"	Leaf	52-1200G*	1.0", 1.5", 2.0"	33"
Blazer (GMT400)	1992-94	4WD	Torsion	64-1000G	Up to 3.0"	Leaf	52-1200G	1.0", 1.5", 2.0"	33"
Colorado/Canyon (Exc. ZR2)	2015-19	2WD/4WD	Strut	74-1150G	1.5" to 2.25"	Leaf	52-1150G*	1.0", 1.5", 2.0"	32.2"
Escalade/EXT/ESV (GMT400)	1999-00	4WD	Torsion	64-1000G	Up to 3.0"	Leaf	52-1200G*	1.0", 1.5", 2.0"	33"
Escalade/EXT/ESV (6-Lug)	2002-06	4WD	Torsion	64-1000G	Up to 3.0"	Coil	56-1100G*	1.0", 1.5", 2.0"	33"
Escalade/EXT/ESV (6-Lug)	2007-18	2WD/4WD	Strut	75-1055G* 75-1050G*	0.875" to 1.75" 0.875" to 2.5"	Coil	56-1100G* (4)	1.0", 1.5", 2.0"	32"
Escalade (6-Lug)	2019	2WD/4WD	Strut	75-1055G*	0.875" to 1.75"	Coil	56-1100G* (4)	1.0", 1.5", 2.0"	32"
K-Series L.D. 1500 (GMT400)	1988-98	4WD	Torsion	64-1000G	Up to 3.0"	Leaf	52-1200G*	1.0", 1.5", 2.0"	33"
Sierra/Silverado L.D. 1500 (6-Lug)	1999-06	2WD				Leaf	52-1600G*	1.0", 1.5", 2.0"	OE
Sierra/Silverado L.D. 1500 (6-Lug)	1999-06	4WD	Torsion	64-1000G	Up to 3.0"	Leaf	52-1000G*	1.0", 1.5", 2.0"	33"
Sierra/Silverado L.D. 1500 (6-Lug)	2007-13	2WD/4WD	Strut	75-1055G* 75-1050G* 74-1000G (3)	0.875" to 1.75" 0.875" to 2.5" 2.0" to 3.0"	Leaf	52-1500G*	1.0", 1.5", 2.0"	32"
Sierra/Silverado L.D. 1500 (6-Lug) (K2XX)	2014-18	2WD/4WD	Strut	75-1055G* 75-1050G* 74-1500G (3)	0.875" to 1.75" 0.875" to 2.5" 2.25" to 3.0"	Leaf	52-1500G*	1.0", 1.5", 2.0"	32"
Sierra/Silverado L.D. 1500 (6-Lug) (T1XX Exc. Trailer Boss)	2019	2WD/4WD	Strut	75-1055G* 75-1060G*	0.875" to 1.75" 0.875" to 2.5"	Leaf	52-1600G*	1.0", 1.5", 2.0"	33"
Sierra/Silv. H.D. 1500/2500 (8-Lug)	1999-10	2WD/4WD	Torsion	64-1200G	Up to 2.5"	Leaf	52-1200G* (2)	1.0", 1.5", 2.0"	33"
Sierra/Silverado 3500 (8-Lug)	2001-10	2WD/4WD	Torsion	64-1200G	Up to 2.5"	Leaf	52-1200G* (2)	1.0", 1.5", 2.0"	33"
Sierra/Silverado 2500/3500 (8-Lug)	2011-19	2WD/4WD	Torsion	64-1400G	Up to 2.25"	Leaf	52-1400G* (2)	1.0", 1.5", 2.0"	33"
Suburban/Yukon XL 1500 (GMT400)	1992-99	4WD	Torsion	64-1000G	Up to 3.0"	Leaf	52-1200G*	1.0", 1.5", 2.0"	33"
Suburban/Yukon XL 1500 (6-Lug)	2000-06	4WD	Torsion	64-1000G	Up to 3.0"	Coil	56-1100G*	1.0", 1.5", 2.0"	33"
Suburban/Yukon XL 1500 (6-Lug)	2007-13	2WD/4WD	Strut	75-1055G* 75-1050G* 74-1000G (3)	0.875" to 1.75" 0.875" to 2.5" 2.0" to 3.0"	Coil	56-1100G* (4)	1.0", 1.5", 2.0"	32"
Suburban/Yukon XL 1500 (6-Lug)	2014-19	2WD/4WD	Strut	75-1055G* 75-1050G* 74-1500G (3)	0.875" to 1.75" 0.875" to 2.5" 2.25" to 3.0"	Coil	56-1100G* (4)	1.0", 1.5", 2.0"	32"
Suburban/Yukon XL 2500 (8-Lug)	2000-14	2WD/4WD	Torsion	64-1200G	Up to 2.5"	Leaf	52-1200G*	1.0", 1.5", 2.0"	33"
Tahoe/Yukon (GMT400)	1995-99	4WD	Torsion	64-1000G	Up to 3.0"	Leaf	52-1200G*	1.0", 1.5", 2.0"	33"
Tahoe/Yukon (6 Lug)	2000-06	4WD	Torsion	64-1000G	Up to 3.0"	Coil	56-1100G*	1.0", 1.5", 2.0"	33"
Tahoe/Yukon (6-Lug)	2007-13	2WD/4WD	Strut	75-1055G* 75-1050G* 74-1000G (3)	0.875" to 1.75" 0.875" to 2.5" 2.0" to 3.0"	Coil	56-1100G* (4)	1.0", 1.5", 2.0"	32"
Tahoe/Yukon (6-Lug)	2014-19	2WD/4WD	Strut	75-1055G* 75-1050G* 74-1500G (3)	0.875" to 1.75" 0.875" to 2.5" 2.25" to 3.0"	Coil	56-1100G* (4)	1.0", 1.5", 2.0"	32"
Trailblazer/Envoy/Bravada	2002-09	2WD/4WD				Coil	56-1100G*	1.0", 1.5", 2.0"	OE
DODGE, RAM									
Dakota	2005-11	2WD/4WD	Strut	74-2200R	1.5" to 2.25"				32"
Ram 1500 2WD	2002-05	2WD				Leaf	52-2000D*	1.0", 1.5", 2.0"	OE
Ram 1500 2WD	2006-08	2WD				Leaf	52-2000D*	1.0", 1.5", 2.0"	34"
Ram 1500 2WD	2009-18	2WD				Coil	56-2100D*	1.0", 1.5", 2.0"	33"
Ram 1500 4WD	1994-01	4WD	Coil	71-2500D*	1.5", 1.75", 2.0"				35"
Ram 1500 4WD	2002-05	4WD	Torsion	64-2000D	Up to 2.25"	Leaf	52-2000D*	1.0", 1.5", 2.0"	35"
Ram 1500 4WD	2006-08	4WD	Strut	74-2000D	2.0" to 3.0"	Leaf	52-2000D*	1.0", 1.5", 2.0"	35"
Ram 1500 4WD (w/o front air susp.)	2009-18	4WD	Strut	74-2000D	2.0" to 3.0"	Coil	56-2100D*	1.0", 1.5", 2.0"	35"
Ram 1500 4WD (w/o front air susp.)	2019	4WD	Strut	74-2200R	1.5" to 2.25"	Coil	56-2100D*	1.0", 1.5", 2.0"	34"
Ram H.D. 2500/3500 (8-Lug) 2WD	2003-12	2WD				Leaf	52-2500D* (2)	1.0", 1.5", 2.0"	OE
Ram H.D. 2500/3500 (8-Lug)	1994-02	4WD	Coil	71-2500D*	1.5", 1.75", 2.0"				35"
Ram H.D. 2500 (8-Lug)	2003-13	4WD	Coil	71-2500D*	1.5", 1.75", 2.0"	Leaf	52-2500D* (2)	1.0", 1.5", 2.0"	35"

*Progressive Lift Kit: Adjusted PRIOR to installation
(2) For use ONLY on SRW, non-dually & non-camper applications
(3) Use kit #75-1050G or 75-1055G on vehicles equipped with JL4 electronic front suspension identified by a wire connecting to each front strut assembly
(4) Not for use with OEM Rear Air Suspension
(5) Not for use on TRD Pro w/Bilstein Struts

Items in RED are updates and/or TBA (To Be Announced)

ProRYDE QUICK-REFERENCE APPLICATION GUIDE									
			FRONT LIFT/LEVELING KIT			REAR LIFT KIT			
Make/Model	Year	2WD/4WD	Susp. Type	Front Kit Part No.	Front Lift Range	Susp. Type	Rear Kit Part No.	Rear Lift Range	Max. Tire Diameter
DODGE, RAM CONTINUED									
Ram H.D. 2500 (8-Lug)	2014-18	2WD				Coil	56-2600R*	1.0", 1.5", 2.0"	OE
Ram H.D. 2500 (8-Lug)	2014-18	4WD	Coil	74-2550R	1.5" to 2.5"	Coil	56-2600R*	1.0", 1.5", 2.0"	35"
Ram H.D. 3500 (8-Lug)	2003-12	4WD	Coil	71-2500D*	1.5", 1.75", 2.0"	Leaf	52-2500D* (2)	1.0", 1.5", 2.0"	35"
Ram H.D. 3500 (8-Lug)	2013-19	4WD	Coil	74-2550R	1.5" to 2.5"				35"
Ram H.D. 4500/5500	2008-18	4WD	Coil	71-2500D*	1.5", 1.75", 2.0"				OE
Ram Mega Cab (8-Lug)	2006-13	4WD	Coil	71-2500D*	1.5", 1.75", 2.0"				35"
Ram Mega Cab (8-Lug)	2014-19	4WD	Coil	74-2550R	1.5" to 2.5"				OE
Ram Power Wagon	2014	4WD	Coil	74-2550R	1.5" to 2.5"				35"
Ram Power Wagon	2015-19	4WD	Coil	74-2560R	1.5" to 2.5"				35"
FORD, LINCOLN									
Expedition	1997-02	4WD	Torsion	64-3000F	Up to 2.5"				33"
Expedition (w/o front air susp.)	2003-17	2WD/4WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"				35"
F150/F250 LD. Incl. Heritage	1997-04	4WD	Torsion	64-3000F	Up to 2.5"				33"
F150 2WD	2004-19	2WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"				33"
F150 4WD	2004-08	4WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"	Leaf	52-3000F*	1.0", 1.5", 2.0"	35"
F150 4WD	2009-19	4WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"	Leaf	52-3000F*	1.75", 2.25", 2.75"	32"
F250/F350 Super Duty 4WD	1999-04	4WD	Leaf			Leaf	52-3502F* (2)	1.0", 1.5", 2.0"	OE
F250/F350 Super Duty 4WD	2005-10	4WD	Coil	71-3500F*	2.0", 2.5"	Leaf	52-3502F* (2)	1.0", 1.5", 2.0"	37"
F250 Super Duty 4WD	2011-19	4WD	Coil	71-3500F*	2.0", 2.5"	Leaf	52-3503F* (2)	1.0", 1.5", 2.0"	37"
F350 Super Duty 4WD	2011-19	4WD	Coil	71-3500F*	2.0", 2.5"	Leaf	52-3501F* (2)	1.0", 1.5", 2.0"	37"
F450/F550 Super Duty 4WD	2008-14	4WD	Coil	71-3500F*	2.0", 2.5"				35"
Raptor	2010-14	4WD	Strut	74-3250F	1.5" to 2.25"	Leaf	52-3000F*	.5", 1.0", 1.5"	35"
Raptor	2017-19	4WD	Strut	74-3200F	1.5" to 2.25"	Leaf	52-3000F*	.5", 1.0", 1.5"	36"
Lincoln Navigator	1998-02	4WD	Torsion	64-3000F	Up to 2.5"				33"
Lincoln Navigator	2003-06	2WD/4WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"				35"
Lincoln Navigator	2007-17	2WD/4WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"				35"
Lincoln Mark LT 2WD	2005-08	2WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"				33"
Lincoln Mark LT	2005-08	4WD	Strut	74-3200F 74-3000F	1.5" to 2.25" 2.0" to 3.0"	Leaf	52-3000F*	1.0", 1.5", 2.0"	35"
HUMMER									
Hummer H2 (8Lug)	2003-10	4WD	Torsion	64-1200G	Up to 2.5"	Leaf Coil	52-1200G* 56-1100G*	1.0", 1.5", 2.0" 1.0", 1.5", 2.0"	37" 37"
INFINITI									
Infiniti QX56	2004-10	2WD/4WD	Strut	74-4000N	1.5" to 2.75"				33"
Infiniti QX80	2014-17	4WD	Strut	74-4000N	1.5" to 2.75"				33"
JEEP									
JK Wrangler	2007-18	4WD	Coil	71-7000J*	1.5",2.0",2.5",3.0"	Coil	56-7100J*	1.0", 1.5", 2.0"	35"
LEXUS									
GX460 (w/o front air susp.)	2010-16	2WD/4WD	Strut	71-5500T					32"
NISSAN									
Nissan Armada	2005-15	2WD/4WD	Strut	74-4000N	1.5" to 2.75"				33"
Frontier	2005-18	2WD/4WD	Strut	74-4150N	1.0" to 2.5"	Leaf	57-4000N*	0.5", 1.0", 1.5"	33"
Pathfinder	2005-12	4WD	Strut	74-4150N	1.0" to 2.5"	Coil			33"
Nissan Titan	2004-07	2WD/4WD	Strut	74-4000N	1.5" to 2.75"	Leaf	52-4000N*	1.0", 1.5", 2.0"	33"
Nissan Titan	2008-15	2WD/4WD	Strut	74-4000N	1.5" to 2.25"	Leaf	52-4000N*	1.0", 1.5", 2.0"	33"
Nissan Titan LD (New Body)	2017-19	2WD/4WD	Strut	74-4200N	2.0" to 2.75"	Leaf	52-4000N*	1.0", 1.5", 2.0"	33"
Nissan Titan XD	2016-19	2WD/4WD	Strut	74-4200N	2.0" to 2.75"	Leaf	52-4200N*	1.0", 1.5", 2.0"	33"
Xterra	2005-15	2WD/4WD	Strut	74-4150N	1.0" to 2.5"	Leaf	57-4000N*	0.5", 1.0", 1.5"	33"
SUZUKI									
Equator	2009-12	2WD/4WD	Strut	74-4150N	1.0" to 2.5"	Leaf	57-4000N	0.5", 1.0", 1.5"	33"
TOYOTA									
4Runner	2003-09	2WD/4WD	Strut	71-5500T*	1.5", 2.0", 2.5"	Coil			32"
4Runner Exc. TRD Pro	2010-19	2WD/4WD	Strut	71-5500T*(5)	2.0", 2.5", 3.0"	Coil			32.5"
FJ Cruiser	2007-14	2WD/4WD	Strut	71-5500T*	1.5", 2.0", 2.5"	Coil			32"
Hilux	2005-17	2WD/4WD	Strut	71-5500T*	1.5", 2.25", 2.75"	Leaf	52-5000T*	1.0", 1.5", 2.0"	32.5"
Sequoia (w/o front air susp.)	2008-19	2WD/4WD	Strut	74-5000T	2.0" to 3.5"	Coil			33"
Tacoma/PreRunner Exc. TRD Pro	2005-19	2WD/4WD	Strut	71-5500T*(5)	1.5", 2.2", 2.75"	Leaf	52-5000T*	1.0", 1.5", 2.0"	32.5"
Tundra Exc. TRD Pro	2007-19	2WD/4WD	Strut	74-5000T (5)	2.0" to 3.5"	Leaf	52-5000T*	1.0", 1.5", 2.0"	33"

*Progressive Lift Kit: Adjusted PRIOR to installation
(2) For use ONLY on SRW, non-dually & non-camper applications
(3) Use kit #75-1050G or 75-1055G on vehicles equipped with JL4 electronic front suspension identified by a wire connecting to each front strut assembly
(4) Not for use with OEM Rear Air Suspension
(5) Not for use on TRD Pro w/Bilstein Struts

Items in RED are updates and/or TBA (To Be Announced)