

FOR USE WITH **NON** COMPUTERIZED 4-WHEEL ALIGNMENT EQUIPMENT WITH TOE MEASUREMENTS READ IN INCHES

TOE CHANGE

CAMBER CHANGE

TOE SETTING IS THE MOST CRITICAL!
 1) SELECT OUTSIDE TIRE DIAMETER
 2) MOVE DOWN TO DESIRED TOE CHANGE
 3) MOVE RIGHT TO DESIRED CAMBER
 CHANGE OR CLOSEST CAMBER SELECTION.

POSITIVE

NEGATIVE

OUTSIDE TIRE DIAMETERS						POSITIVE															NEGATIVE														
27"	26"	25"	24"	23"	22"	1 1/2"	1 3/8"	1 1/4"	1 1/8"	1"	7/8"	3/4"	5/8"	1/2"	3/8"	1/4"	1/8"	0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"					
.000	.000	.000	.000	.000	.000	1.500	1.375	1.250	1.125	1.000	.875	.750	.625	.500	.375	.250	.125	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.125	1.250	1.375	1.500					
0		0		0		6		5		4		3		2		1		1		2		3		4		5		6							
IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180		IN 180 180					
OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180		OUT 180 180					

NOTE:
 + = TOE IN
 - = TOE OUT

INCHES	DEGREES	METRIC MIN	MINUTES OF DEGREE
.00			
.01	.06	0.6	3.75
.02	.13	1.3	7.50
.03	.19	1.9	11.25
.04	.26	2.6	15.00
.05	.31	3.1	18.75
.06	.38	3.8	22.50
.07	.44	4.4	26.25
.08	.50	5.0	30.00
.09	.56	5.6	33.75
.10	.62	6.2	37.50
.11	.68	6.8	41.25
.12	.74	7.4	45.00
.13	.80	8.0	48.75
.14	.86	8.6	52.50
.15	.92	9.2	56.25
.16	.98	9.8	60.00
.17	1.04	10.4	63.75
.18	1.10	11.0	67.50
.19	1.16	11.6	71.25
.20	1.22	12.2	75.00
.21	1.28	12.8	78.75
.22	1.34	13.4	82.50
.23	1.40	14.0	86.25
.24	1.46	14.6	90.00
.25	1.52	15.2	93.75
.26	1.58	15.8	97.50
.27	1.64	16.4	101.25
.28	1.70	17.0	105.00
.29	1.76	17.6	108.75
.30	1.82	18.2	112.50
.31	1.88	18.8	116.25
.32	1.94	19.4	120.00
.33	2.00	20.0	123.75
.34	2.06	20.6	127.50
.35	2.12	21.2	131.25
.36	2.18	21.8	135.00
.37	2.24	22.4	138.75
.38	2.30	23.0	142.50
.39	2.36	23.6	146.25
.40	2.42	24.2	150.00
.41	2.48	24.8	153.75
.42	2.54	25.4	157.50
.43	2.60	26.0	161.25
.44	2.66	26.6	165.00
.45	2.72	27.2	168.75
.46	2.78	27.8	172.50
.47	2.84	28.4	176.25
.48	2.90	29.0	180.00
.49	2.96	29.6	183.75
.50	3.02	30.2	187.50
.51	3.08	30.8	191.25
.52	3.14	31.4	195.00
.53	3.20	32.0	198.75
.54	3.26	32.6	202.50
.55	3.32	33.2	206.25
.56	3.38	33.8	210.00
.57	3.44	34.4	213.75
.58	3.50	35.0	217.50
.59	3.56	35.6	221.25
.60	3.62	36.2	225.00
.61	3.68	36.8	228.75
.62	3.74	37.4	232.50
.63	3.80	38.0	236.25
.64	3.86	38.6	240.00
.65	3.92	39.2	243.75
.66	3.98	39.8	247.50
.67	4.04	40.4	251.25
.68	4.10	41.0	255.00
.69	4.16	41.6	258.75
.70	4.22	42.2	262.50
.71	4.28	42.8	266.25
.72	4.34	43.4	270.00
.73	4.40	44.0	273.75
.74	4.46	44.6	277.50
.75	4.52	45.2	281.25
.76	4.58	45.8	285.00
.77	4.64	46.4	288.75
.78	4.70	47.0	292.50
.79	4.76	47.6	296.25
.80	4.82	48.2	300.00

U.S. PATENT NO. 4,872,699

FOR USE WITH **ELECTRONIC COMPUTERIZED** 4-WHEEL ALIGNMENT EQUIPMENT WITH TOE MEASUREMENTS READ IN DEGREES OR INCHES

C A M B E R C H A N G E

POSITIVE

NEGATIVE

- TOE SETTING IS THE MOST CRITICAL!**
- 1) SELECT DESIRED TOE CHANGE
 - 2) MOVE ACROSS TO DESIRED CAMBER CHANGE OR CLOSEST CAMBER SELECTION.

TOE CHANGE

NOTE:
+ = TOE IN
- = TOE OUT

Toe Change Inches	Toe Change Degrees	1.50 1-1/2°	1.38 1-3/8°	1.25 1-1/4°	1.13 1-1/8°	1.00 1°	.88 7/8°	.75 3/4°	.63 5/8°	.50 1/2°	.38 3/8°	.25 1/4°	.13 1/8°	.00 0°	.13 1/8°	.25 1/4°	.38 3/8°	.50 1/2°	.63 5/8°	.75 3/4°	.88 7/8°	1.00 1°	1.13 1-1/8°	1.25 1-1/4°	1.38 1-3/8°	1.50 1-1/2°		
.00 0	00°	6 Left Right IN 180 180 OUT 180 180		5 Left Right IN 180 180 OUT 180 180		4 Left Right IN 180 180 OUT 180 180		3 Left Right IN 180 180 OUT 180 180		2 Left Right IN 180 180 OUT 180 180		1 Left Right IN 180 180 OUT 180 180			1 Left Right IN 0 0 OUT 0 0		2 Left Right IN 0 0 OUT 0 0		3 Left Right IN 0 0 OUT 0 0		4 Left Right IN 0 0 OUT 0 0		5 Left Right IN 0 0 OUT 0 0		6 Left Right IN 0 0 OUT 0 0		6 Left Right IN 0 0 OUT 0 0	
.03 1/32"	.06°		6 Left Right IN 183 177 OUT 177 183		5 Left Right IN 183 177 OUT 177 183		4 Left Right IN 184 176 OUT 176 184		3 Left Right IN 185 175 OUT 175 185		2 Left Right IN 187 173 OUT 173 187		1 Left Right IN 195 165 OUT 165 195			1 Left Right IN 345 15 OUT 15 345		2 Left Right IN 353 7 OUT 7 353		3 Left Right IN 355 5 OUT 5 355		4 Left Right IN 356 4 OUT 4 356		5 Left Right IN 357 3 OUT 3 357		6 Left Right IN 357 3 OUT 3 357		6 Left Right IN 357 3 OUT 3 357
.06 1/16"	.12°		6 Left Right IN 185 175 OUT 175 185		5 Left Right IN 186 174 OUT 174 186		4 Left Right IN 187 173 OUT 173 187		3 Left Right IN 190 170 OUT 170 190		2 Left Right IN 195 165 OUT 165 195		1 Left Right IN 211 149 OUT 149 211			1 Left Right IN 329 31 OUT 31 329		2 Left Right IN 345 15 OUT 15 345		3 Left Right IN 350 10 OUT 10 350		4 Left Right IN 353 7 OUT 7 353		5 Left Right IN 354 6 OUT 6 354		6 Left Right IN 355 5 OUT 5 355		6 Left Right IN 355 5 OUT 5 355
.09 3/32"	.19°		6 Left Right IN 187 173 OUT 173 187		5 Left Right IN 189 171 OUT 171 189		4 Left Right IN 191 169 OUT 169 191		3 Left Right IN 195 165 OUT 165 195		2 Left Right IN 202 158 OUT 158 202		1 Left Right IN 230 130 OUT 130 230			1 Left Right IN 310 50 OUT 50 310		2 Left Right IN 329 31 OUT 31 329		3 Left Right IN 345 15 OUT 15 345		4 Left Right IN 348 12 OUT 12 348		5 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.12 1/8"	.25°		6 Left Right IN 190 170 OUT 170 190		5 Left Right IN 192 168 OUT 168 192		4 Left Right IN 195 165 OUT 165 195		3 Left Right IN 200 160 OUT 160 200		2 Left Right IN 211 149 OUT 149 211		1 Left Right IN 270 90 OUT 90 270			1 Left Right IN 270 90 OUT 90 270		2 Left Right IN 329 31 OUT 31 329		3 Left Right IN 345 15 OUT 15 345		4 Left Right IN 348 12 OUT 12 348		5 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.16 5/32"	.32°		6 Left Right IN 192 168 OUT 168 192		5 Left Right IN 195 165 OUT 165 195		4 Left Right IN 199 161 OUT 161 199		3 Left Right IN 205 155 OUT 155 205		2 Left Right IN 220 140 OUT 140 220		1 Left Right IN 240 220 OUT 220 240			2 Left Right IN 320 40 OUT 40 320		3 Left Right IN 329 31 OUT 31 329		4 Left Right IN 345 15 OUT 15 345		5 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.19 3/16"	.38°		6 Left Right IN 195 165 OUT 165 195		5 Left Right IN 198 162 OUT 162 198		4 Left Right IN 203 157 OUT 157 203		3 Left Right IN 211 149 OUT 149 211		2 Left Right IN 219 141 OUT 141 219		1 Left Right IN 230 130 OUT 130 230			2 Left Right IN 310 50 OUT 50 310		3 Left Right IN 329 31 OUT 31 329		4 Left Right IN 345 15 OUT 15 345		5 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.22 7/32"	.44°		6 Left Right IN 197 163 OUT 163 197		5 Left Right IN 201 159 OUT 159 201		4 Left Right IN 207 153 OUT 153 207		3 Left Right IN 217 143 OUT 143 217		2 Left Right IN 243 117 OUT 117 243		1 Left Right IN 270 90 OUT 90 270			2 Left Right IN 270 90 OUT 90 270		3 Left Right IN 297 63 OUT 63 297		4 Left Right IN 323 37 OUT 37 323		5 Left Right IN 337 23 OUT 23 337		6 Left Right IN 349 11 OUT 11 349		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353
.25 1/4"	.50°		6 Left Right IN 200 160 OUT 160 200		5 Left Right IN 204 156 OUT 156 204		4 Left Right IN 211 149 OUT 149 211		3 Left Right IN 223 137 OUT 137 223		2 Left Right IN 249 111 OUT 111 249		1 Left Right IN 270 90 OUT 90 270			2 Left Right IN 270 90 OUT 90 270		3 Left Right IN 317 43 OUT 43 317		4 Left Right IN 329 31 OUT 31 329		5 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353
.28 9/32"	.57°		6 Left Right IN 203 157 OUT 157 203		5 Left Right IN 207 153 OUT 153 207		4 Left Right IN 215 145 OUT 145 215		3 Left Right IN 230 130 OUT 130 230		2 Left Right IN 249 111 OUT 111 249		1 Left Right IN 270 90 OUT 90 270			2 Left Right IN 310 50 OUT 50 310		3 Left Right IN 329 31 OUT 31 329		4 Left Right IN 345 15 OUT 15 345		5 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.31 5/16"	.63°		6 Left Right IN 205 155 OUT 155 205		5 Left Right IN 211 149 OUT 149 211		4 Left Right IN 220 140 OUT 140 220		3 Left Right IN 228 132 OUT 132 228		2 Left Right IN 249 111 OUT 111 249		1 Left Right IN 270 90 OUT 90 270			3 Left Right IN 302 58 OUT 58 302		4 Left Right IN 329 31 OUT 31 329		5 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.34 11/32"	.70°		6 Left Right IN 208 152 OUT 152 208		5 Left Right IN 214 146 OUT 146 214		4 Left Right IN 225 135 OUT 135 225		3 Left Right IN 235 125 OUT 125 235		2 Left Right IN 250 110 OUT 110 250		1 Left Right IN 270 90 OUT 90 270			3 Left Right IN 290 70 OUT 70 290		4 Left Right IN 315 45 OUT 45 315		5 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.37 3/8"	.74°		6 Left Right IN 211 149 OUT 149 211		5 Left Right IN 218 142 OUT 142 218		4 Left Right IN 230 130 OUT 130 230		3 Left Right IN 249 111 OUT 111 249		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			3 Left Right IN 270 90 OUT 90 270		4 Left Right IN 310 50 OUT 50 310		5 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.41 13/32"	.83°		6 Left Right IN 214 146 OUT 146 214		5 Left Right IN 222 138 OUT 138 222		4 Left Right IN 236 124 OUT 124 236		3 Left Right IN 249 111 OUT 111 249		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			4 Left Right IN 304 56 OUT 56 304		5 Left Right IN 329 31 OUT 31 329		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.44 7/16"	.90°		6 Left Right IN 217 143 OUT 143 217		5 Left Right IN 226 134 OUT 134 226		4 Left Right IN 244 116 OUT 116 244		3 Left Right IN 263 97 OUT 97 263		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			4 Left Right IN 296 64 OUT 64 296		5 Left Right IN 314 46 OUT 46 314		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.47 15/32"	.95°		6 Left Right IN 220 140 OUT 140 220		5 Left Right IN 230 130 OUT 130 230		4 Left Right IN 249 111 OUT 111 249		3 Left Right IN 263 97 OUT 97 263		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			4 Left Right IN 310 50 OUT 50 310		5 Left Right IN 329 31 OUT 31 329		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.50 1/2"	.99°		6 Left Right IN 223 137 OUT 137 223		5 Left Right IN 235 125 OUT 125 235		4 Left Right IN 250 110 OUT 110 250		3 Left Right IN 263 97 OUT 97 263		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			4 Left Right IN 270 90 OUT 90 270		5 Left Right IN 305 55 OUT 55 305		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.53 17/32"	1.09°		6 Left Right IN 227 133 OUT 133 227		5 Left Right IN 241 119 OUT 119 241		4 Left Right IN 256 104 OUT 104 256		3 Left Right IN 270 90 OUT 90 270		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			5 Left Right IN 299 61 OUT 61 299		6 Left Right IN 313 47 OUT 47 313		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.56 9/16"	1.15°		6 Left Right IN 230 130 OUT 130 230		5 Left Right IN 247 113 OUT 113 247		4 Left Right IN 263 97 OUT 97 263		3 Left Right IN 270 90 OUT 90 270		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			5 Left Right IN 293 67 OUT 67 293		6 Left Right IN 310 50 OUT 50 310		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.59 19/32"	1.21°		6 Left Right IN 234 126 OUT 126 234		5 Left Right IN 256 104 OUT 104 256		4 Left Right IN 270 90 OUT 90 270		3 Left Right IN 270 90 OUT 90 270		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			5 Left Right IN 284 76 OUT 76 284		6 Left Right IN 306 54 OUT 54 306		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.62 5/8"	1.24°		6 Left Right IN 239 121 OUT 121 239		5 Left Right IN 270 90 OUT 90 270		4 Left Right IN 270 90 OUT 90 270		3 Left Right IN 270 90 OUT 90 270		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			5 Left Right IN 270 90 OUT 90 270		6 Left Right IN 301 59 OUT 59 301		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.66 21/32"	1.34°		6 Left Right IN 244 116 OUT 116 244		5 Left Right IN 270 90 OUT 90 270		4 Left Right IN 270 90 OUT 90 270		3 Left Right IN 270 90 OUT 90 270		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			6 Left Right IN 296 64 OUT 64 296		6 Left Right IN 314 46 OUT 46 314		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.69 11/16"	1.40°		6 Left Right IN 250 110 OUT 110 250		5 Left Right IN 270 90 OUT 90 270		4 Left Right IN 270 90 OUT 90 270		3 Left Right IN 270 90 OUT 90 270		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			6 Left Right IN 290 70 OUT 70 290		6 Left Right IN 314 46 OUT 46 314		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.72 23/32"	1.46°		6 Left Right IN 258 102 OUT 102 258		5 Left Right IN 270 90 OUT 90 270		4 Left Right IN 270 90 OUT 90 270		3 Left Right IN 270 90 OUT 90 270		2 Left Right IN 270 90 OUT 90 270		1 Left Right IN 270 90 OUT 90 270			6 Left Right IN 282 78 OUT 78 282		6 Left Right IN 314 46 OUT 46 314		6 Left Right IN 345 15 OUT 15 345		6 Left Right IN 348 12 OUT 12 348		6 Left Right IN 351 9 OUT 9 351		6 Left Right IN 353 7 OUT 7 353		6 Left Right IN 353 7 OUT 7 353
.75 3/4"	1.50°		6 Left Right IN 270 90 																									