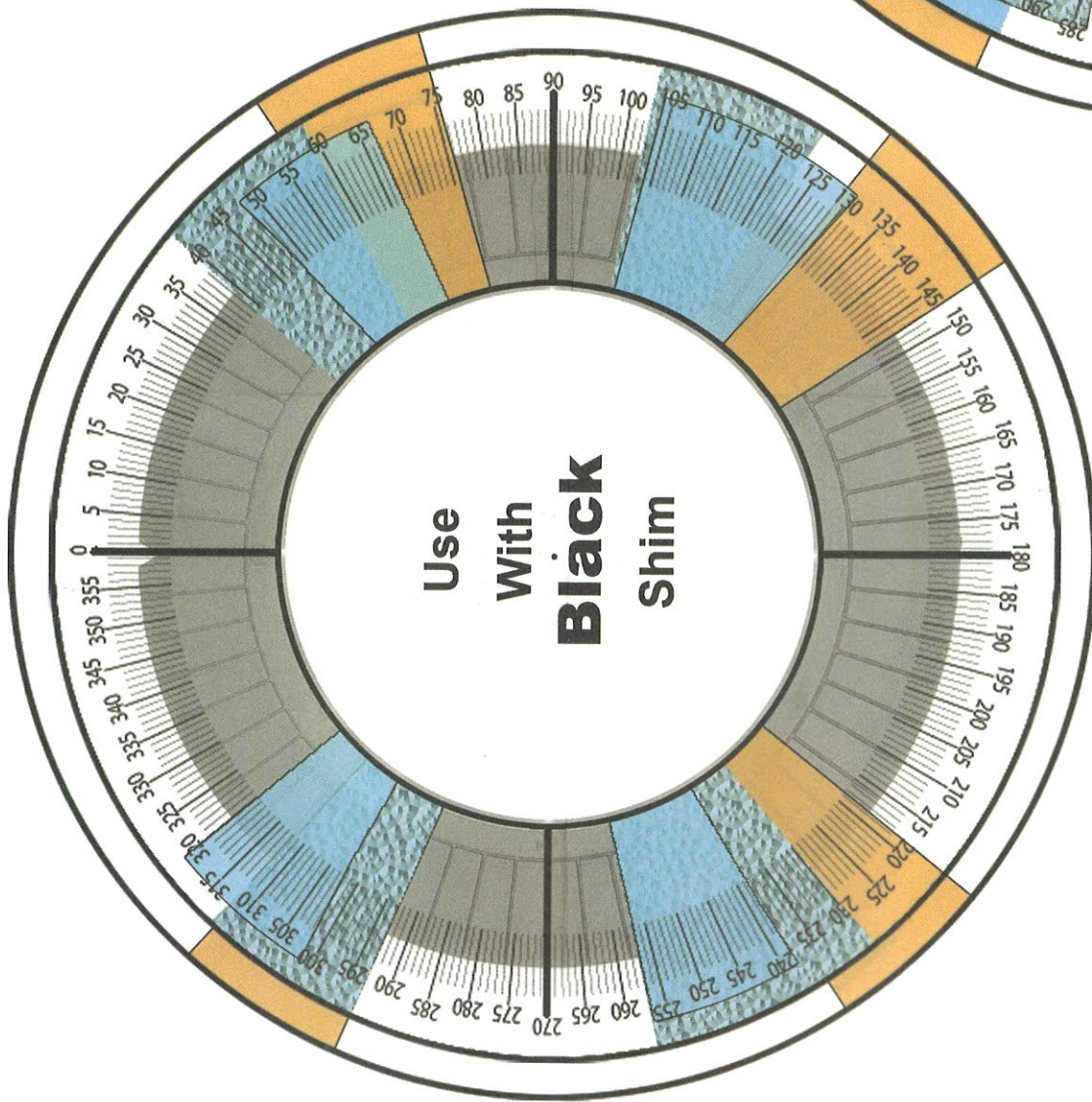
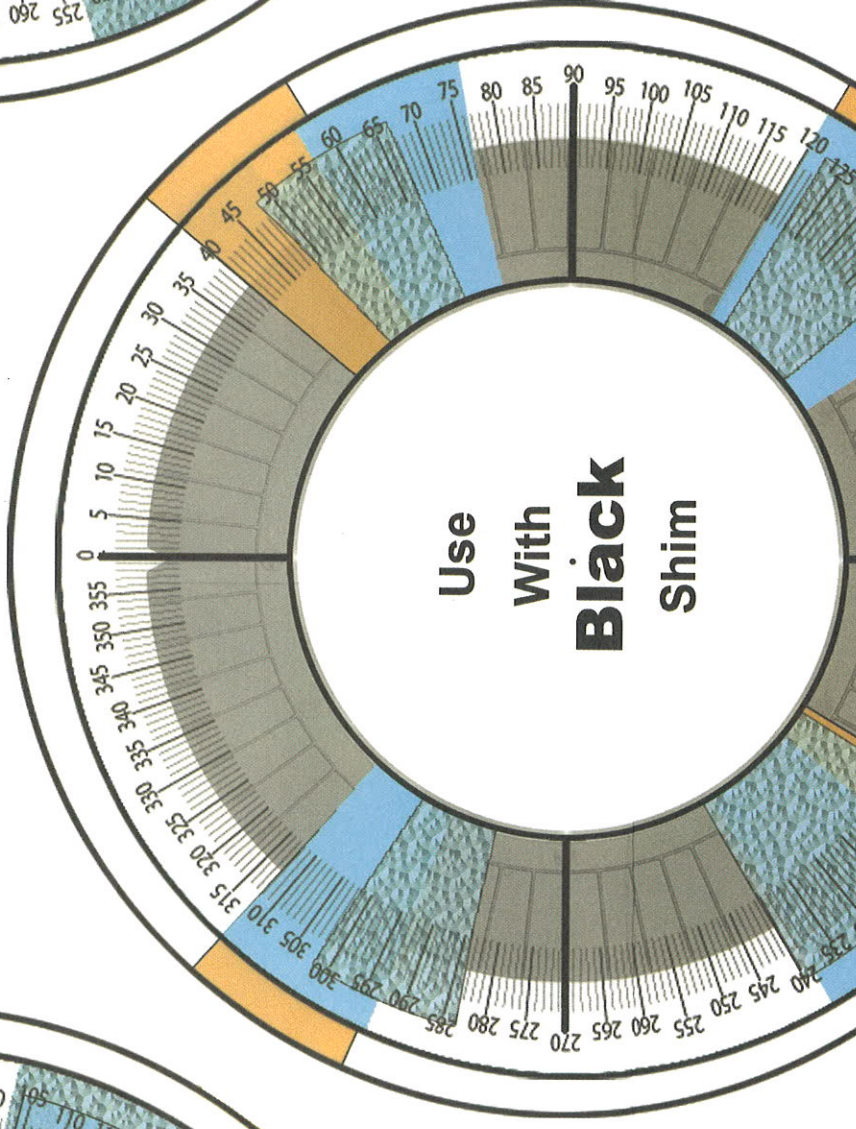


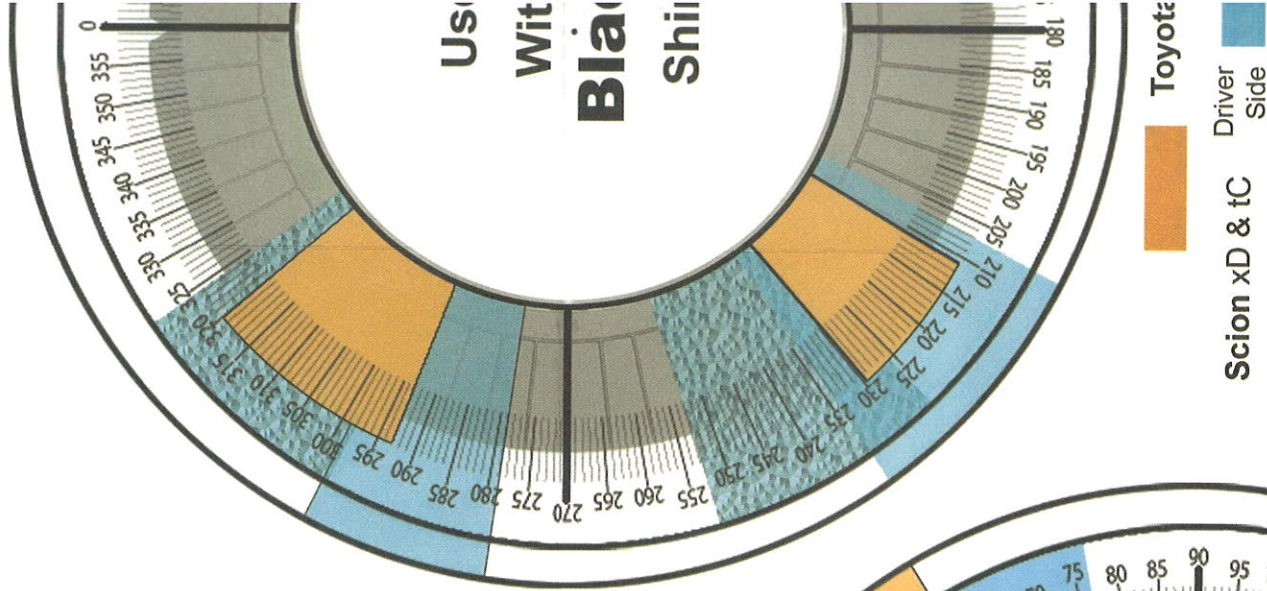
Template O



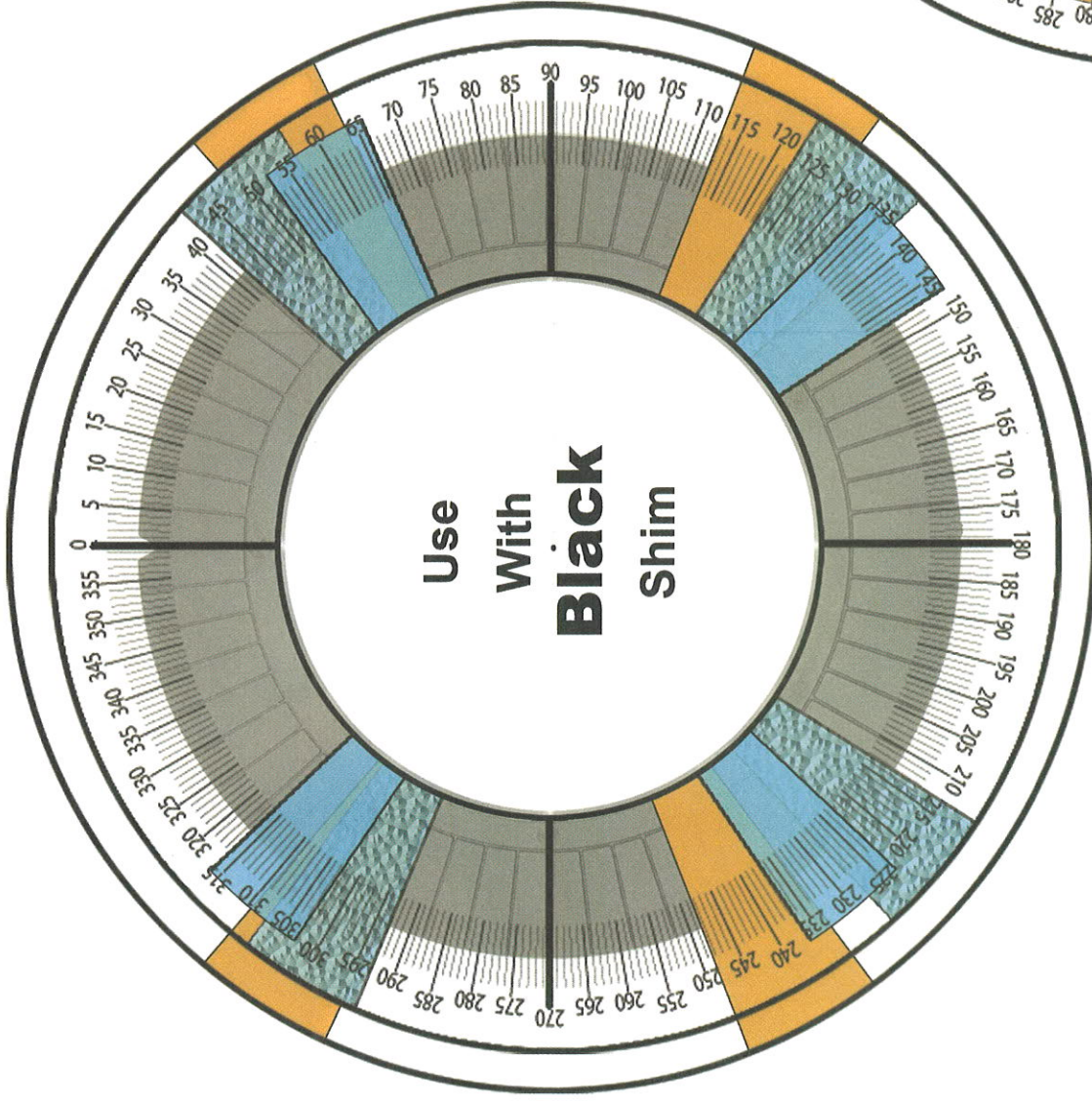
Template P



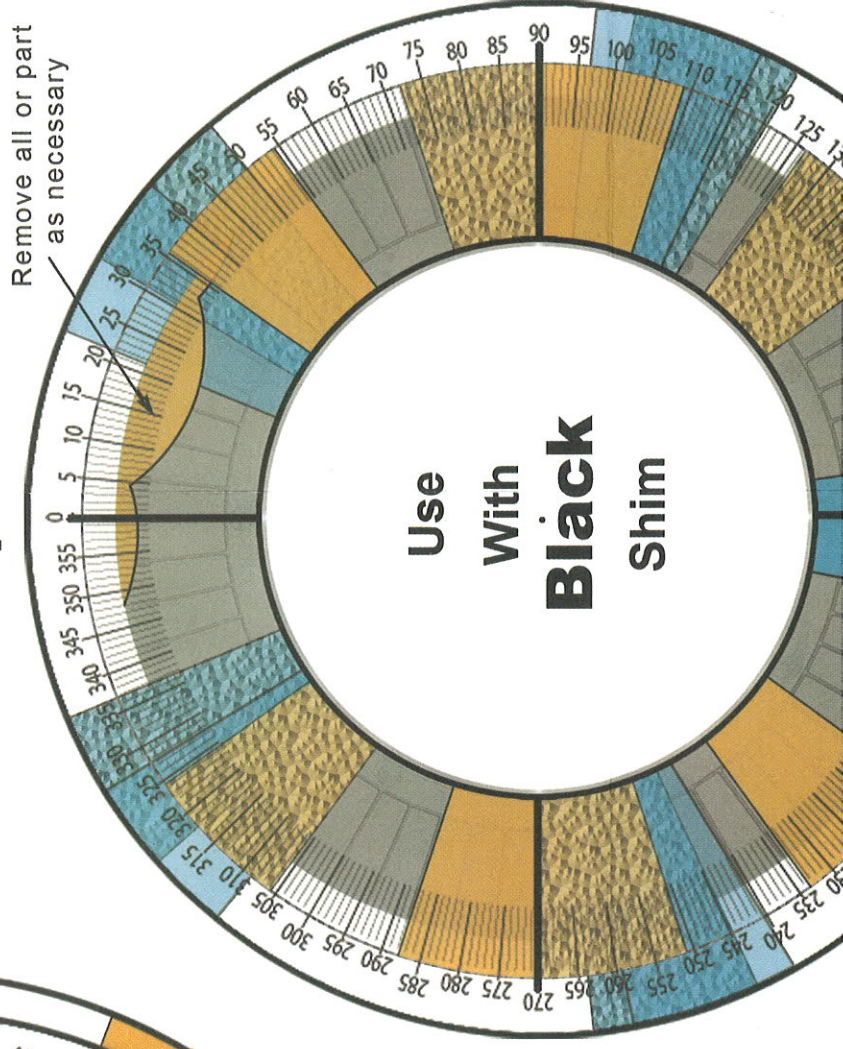
Template



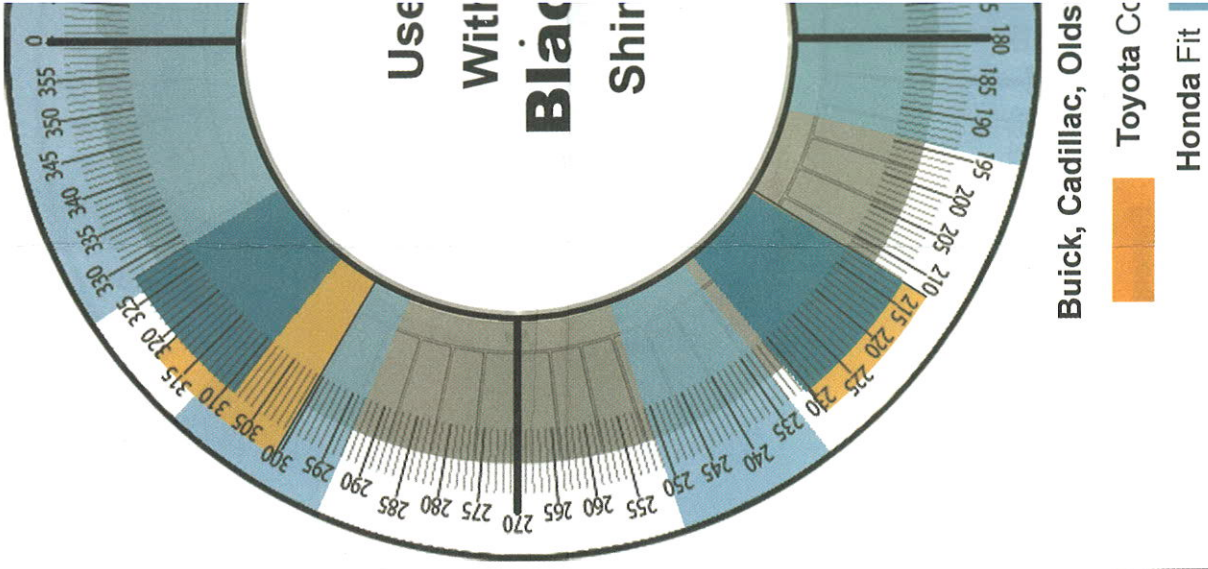
Template S



Template T



Template



Full Contact/Dual Angle Rear Shim Applications

Make	Model	Shim	Template	Torque	Metric
Audi					
100/200 FWD	1989-1994	White	B	22	30
80/90	1988-1992	Blue	A	22	30
Buick					
Century FWD	1985-1996	Burgundy	D	45	60
LeSabre	1986-1999	Burgundy	D	52	70
Lucerne	2006-2011	Burgundy	D	52	71
Park Ave/Electra/FWD	1985-1996	Burgundy	D	52	70
Rendevous FWD	2002-2007	Burgundy	D1	45	60
Skylark	1980-1998	Gray	C	45	60
Terraza FWD	2005-2007	Burgundy	D1	59	80
Cadillac					
Cimarron	1982-1988	Gray	C	45	60
Eldorado	1979-1992	Burgundy	D	52	70
Chevrolet					
Aveo	2004-2011	White	K	33	45
Beretta/Corsica	1987-1996	Gray	C	37	51
Cavalier	1982-2005	Gray	C	45	60
Celebrity	1982-1990	Burgundy	D	45	60
Cobalt	2005-2010	Brown	C	33	45
HHR	2006-2011	Brown	C	33	45
Lumina APV	1990-1996	Burgundy	D	45	60
Malibu	2004-2013	Brown	G	47	63
Uplander	2005-2008	Burgundy	D	52	71
Venture Van	1997-2005	Burgundy	D1	45	60
Chrysler					
200	2011-2012	Black	T	45	60
Imperial	1990-1993	Blue	A	45	60
LeBaron/GTS	1982-1995	Blue	A	45	60
New York/Ex/5th Ave	1983-1993	Blue	A	45	60
PT Cruiser	2001-2010	Blue	R	45	61
Town/CtryVan FWD	1990-1995	White	B	80	109
Town/CtryVan FWD	1996-2013	Green	L & M	95	130
Voyager Van	2000-2008	Green	L & M	100	138
Dodge					
Caravan Van FWD	1984-1995	White	B	80	109
Caravan Van FWD	1996-2013	Green	L & M	95	130
Daytona	1984-1993	Blue	A	45	61
Dynasty	1988-1993	Blue	A	80	108
Monaco	1990-1992	Blue	E	47	64
Shadow	1987-1994	Blue	A	45	61
Spirit	1989-1995	Blue	A	45	61
Eagle					
Premier	1988-1992	Blue	E	47	64
Ford					
Aspire	1994-1997	Blue	J	45	61
Festiva	1988-1993	Blue	J	45	61
Windstar	1995-2003	White	K	50 - 68	68 - 92
Geo					
Prizm	1989-1997	Burgundy	D	44	60
Honda					
Civic	1980-1991	Gray	C	40	54
Fit	2007-2013	Black	S	42	57
Hyundai					
Accent	2006-2011	Black	O	40	55
Kia					
Forte	2010-2013	Black	Q	43	59
Rio	2001-2013	Black	O	43	50
Soul	2009-2013	Black	Q	44	60
Mercury					
Villager	1993-2002	White	I	52	71

Make	Model	Shim	Template	Torque	Metric
Nissan					
Cube	2009-2012	Black	O	45	60
Leaf	2011-2013	Green	L & M	70	94
Quest	1993-2002	White	I	52	71
Sentra	1996-2013	Green	L & M	55	88.3
Versa	2007-2011	Black	O	70	94
Oldsmobile					
Achieva	1992-1998	Gray	C	43	58
Aurora	1995-2003	Black	U	52	71
Calais	1985-1991	Gray	C	43	58
Cutlass Ciera/Cruiser	1986-1996	Burgundy	D	60	81
Delta 88 Royale	1986-1999	Burgundy	D	60	81
Regency	1997-1998	Burgundy	D	52	70
Silhouette	1990-1996	Burgundy	D	45	60
Silhouette	1997-2004	Burgundy	D1	63	85
Plymouth					
Acclaim	1989-1995	Blue	A	45	61
Sundance	1987-1994	Blue	A	45	61
Voyager	1996-2001	Green	L & M	95	60
Voyager FWD	1984-1995	White	B	80	109
Pontiac					
6000	1982-1991	Burgundy	D	45	60
Aztek FWD	2001-2005	Burgundy	D1	45	60
Bonneville	1987-1999	Burgundy	D	52	70
G5	2007-2010	Brown	C	44	60
G6	2004-2010	Brown	C	47	63
Grand Am	1985-1998	Gray	C	43	58
Montana	1997-2007	Burgundy	D1	63	86
Sunbird/J2000	1982-1994	Gray	C	39	53
Sunfire	1995-2005	Gray	C	44	60
Trans Sport	1990-1999	Burgundy	D	45	60
Vibe	2003-2010	Black	S	45	61
Saturn					
Aura	2007-2009	Gray	G	47	63
Ion	2004-2007	Brown	C	44	60
L Series	2000-2005	Gray	C	44	60
Relay FWD	2005-2007	Burgundy	D	52	71
Scion					
iQ	2012-2013	Black	P	40	55
tC	2011-2013	Black	Q	52	71
xA	2004-2006	Black	O	46	63
xB	2004-2013	Black	O	46	63
xD	2008-2013	Black	Q	52	71
Toyota					
Corolla	2003-2013	Black	S	75	100
Corolla FWD	1984-1992	Burgundy	D1	59	80
Echo	2000-2006	Black	O	46	63
Matrix FWD	2003-2011	Black	S	41	56
Prius	2001-2009	Black	P	44	60
Prius	2010-2012	Black	S	44	60
Sienna 2WD/4WD	1998-2013	Green	N	49	67
Terrel (Except S/W)	1983-1999	Gray	G	29 - 39	39 - 53
Yaris	2007-2013	Black	P	40	55
Volkswagen					
Cabriolet	1985-1993	Blue	A	44	60
Corrado	1990-1995	Blue	A	44	60
Fox	1987-1993	Blue	A	44	60
Golf & GTI	1985-2013	Blue	A	44	60
Jetta	1980-1999	Blue	A	44	60
Passat	1998-2010	Black	T	38	51
Passat	1990-1997	Blue	A	44	60

Caution: When installing rear shim on disc brake applications, if caliper does not move with rotor, binding may occur.

NOTE: Because this shim system is so versatile, you will find many other applications can be covered. If no bolt pattern template exists, simply calculate your toe and camber changes as usual, determine proper position number from chart, select appropriate shim style and number, place shim on any proper size template, rotate shim to previously calculated number, mark the "0" on 12:00 position on shim and use spindle from vehicle to make bolt pattern.

INSTRUCTIONS
FULL CONTACT/DUAL ANGLE
REAR WHEEL ALIGNMENT SHIM SYSTEM

PRIOR TO HOOKING UP THE ALIGNMENT EQUIPMENT INSPECT THE REAR SPINDLE MOUNTING AREA FOR ANY EXISTING ALIGNMENT SHIMS. IF ANY SHIMS ARE PRESENT THEY MUST BE REMOVED TO ESTABLISH A BASE READING.

USE THE VEHICLE APPLICATION GUIDE SHOWN ON THE CHART TO SELECT WHICH SERIES/COLOR OF SHIM TO USE.

CAMBER CHANGE DESIRED						
Toe Change Column	1 1/2°	1 3/8°	1 1/4°	1 1/8°	1°	7/8°
	1.500	1.375	1.250	1.125	1.000	.875
0 .0000	6 1st. Sp. IN 180 182 OUT 180 182		5 1st. Sp. IN 180 182 OUT 180 182		4 1st. Sp. IN 180 182 OUT 180 182	
1/32° .03125	6 1st. Sp. IN 183 177 OUT 177 183		5 1st. Sp. IN 183 177 OUT 177 183		4 1st. Sp. IN 183 177 OUT 177 183	
1/16° .0625	6 1st. Sp. IN 186 174 OUT 174 186		5 1st. Sp. IN 186 174 OUT 174 186		4 1st. Sp. IN 186 174 OUT 174 186	
3/32° .0937	6 1st. Sp. IN 189 171 OUT 171 189		5 1st. Sp. IN 189 171 OUT 171 189		4 1st. Sp. IN 189 171 OUT 171 189	
1/8° .1250	6 1st. Sp. IN 192 168 OUT 168 192		5 1st. Sp. IN 192 168 OUT 168 192		4 1st. Sp. IN 192 168 OUT 168 192	

Figure 1

1.

Take and record rear alignment readings. Note the camber and toe changes desired.

2.

Select the correct side of the shim **Application/Position Chart** (Included with shim). One side is for **computerized** four wheel alignment equipment and the other is for **(Non-Computerized)** equipment. (Fig. 1)

The difference is that when using non computerized equipment you must measure the diameter of the tires and select toe change desired from proper tire diameter column. Tire diameter is not measured when using electronic 4 wheel computerized equipment.

3.

Select the amount of toe change desired (From appropriate chart) by reading down the toe change column on the left side of the chart.

4.

Select the amount of camber change (Increase or decrease) from camber change listing across the top of the chart. Next read down the camber change column and across the toe change column to find the box where the two columns meet. (Fig. 1)

Use the information shown in the box to obtain the correct shim number to use (Bold number in the upper left corner of the box). Determine if you are working on the right or left side and if you want to change toe inward or outward from the reading you now have. The number shown is the indexing number for the shim when locating it on the template. (See template furnished with shims).

5. Select correct template and place shim over template with the notch indexed to the location number obtained from the chart. The serrated side of the shim faces up.

6. Select the mounting bolt pattern from the template (Included with shim) and mark the tabs on the shim which are to be removed to mount the shim (Fig. 2)

Mark a line on the shim at the 0 degree position of the template. This is the top position of the shim when it is installed.

7. Remove the shim from template and using a side cutter, nip the very edge of the slots on either side of the tabs you wish to remove. (this will split the membrane) Next, grasp the tabs with the side cutter and bend **downward** to break tabs at the relief line causing them to neatly separate from shim body. (Fig. 3)

8. Remove the spindle or hub from the vehicle, clean all surfaces and install the shim with the top reference mark directly at 12:00 position and the serrations facing out (toward you) (Figure 4)

9. Torque hub mounting bolts to specifications, complete front alignment and road test vehicle.

NOTE: A FINE TIPPED PAINT PEN WORKS BEST FOR MARKING OF BOLT BREAK OUT PATTERNS AND "0" DEGREE TOP REFERENCES.

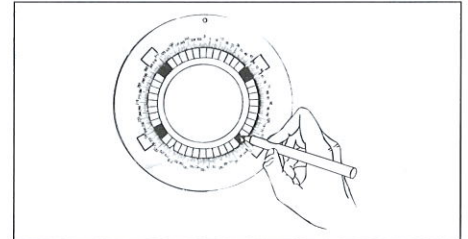


Figure 2

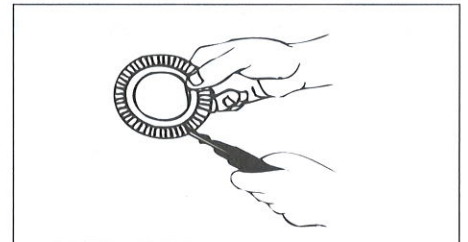


Figure 3

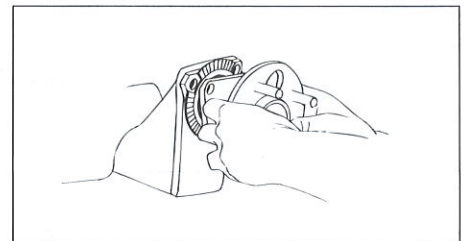


Figure 4