

## SERVICE BULLETIN

**APPLICABILITY**

ALL XT MODELS

**DATE**

05-01-92

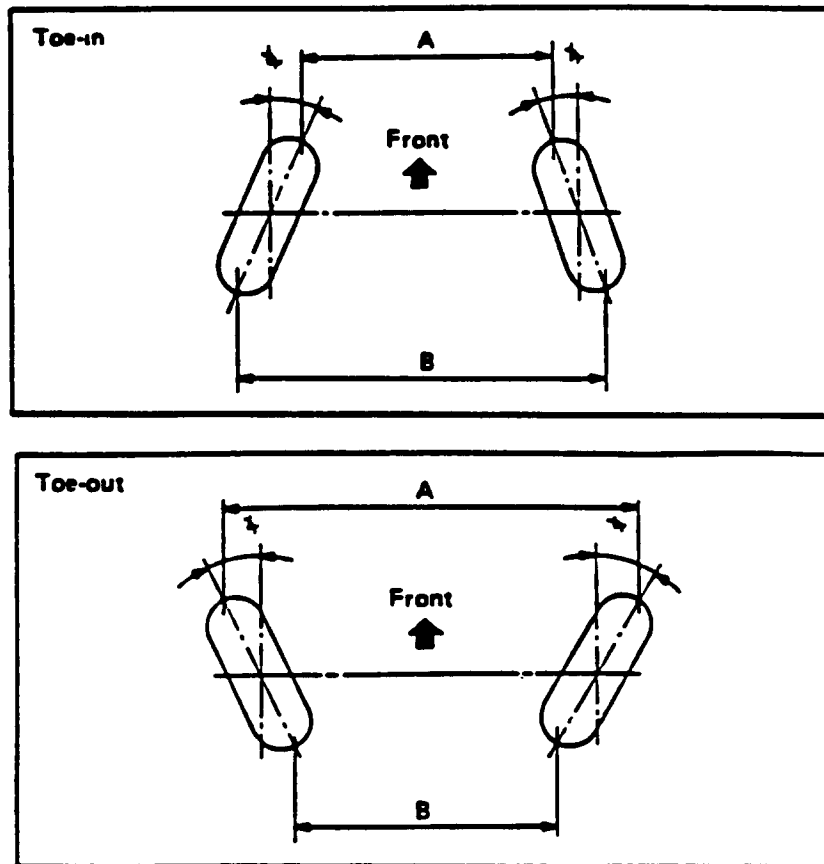
**SUBJECT:**
**WHEEL ALIGNMENT SPECIFICATIONS**

Use the revised alignment information in this bulletin to correct Section 4-1 suspension "Wheel Alignment" of the applicable service manual.

### SIGNIFICANT CHANGES

- I. Rear wheel toe angles are calculated in total toe which is the sum of both right and left wheel angles per axle. See Figure 1 for measurement points.

### TOE MEASUREMENTS


**Figure 1**

**TOTAL TOE BY MEASUREMENT**  
 $B - A = 0$  --- OPTIMUM SPEC.  
 $B > A$  --- TOE IN  
 $B < A$  --- TOE OUT

**TOTAL TOE BY ANGLE OF RH & LH WHEELS**  
 $= L + R = 0$  - OPTIMUM SPEC.  
 $= L + R > 0$  --- OUT  
 $= L + R < 0$  --- IN

## THRUST ANGLE

- II. Thrust angle measurements for rear wheel tracking is now included. Thrust angle is defined as the path that the rear wheels will take, which is geometrically aligned with the body centerline.

**NOTE: DUE TO MINOR ACCIDENTS, HITTING CURBS OR POTHOLES AND OTHER RELATED ROAD HAZARDS, ONE OF THE REAR WHEELS MAY CHANGE POSITION. THIS DIRECTLY AFFECTS THE THRUST ANGLE BY PREVENTING THE REAR WHEELS FROM TRACKING BEHIND THE FRONT WHEELS. THIS CAN RESULT IN WHEEL SCRUBBING WHICH CAN CAUSE: UNUSUAL AND ACCELERATED TIRE WEAR, A DECREASE IN FUEL ECONOMY AND LESS THAN OPTIMUM HANDLING.**

Position the vehicle on a four wheel alignment machine. The machine will determine the centerline difference of the front and rear axles. See Figure 2.

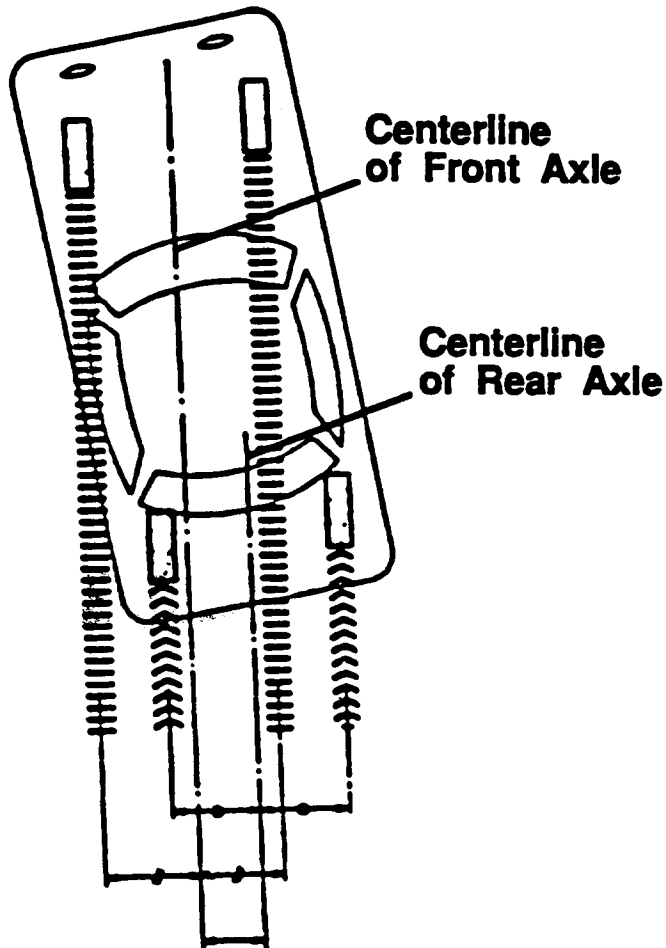


Figure 2

### CAUTION

VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.

		FVD		4VD	
		1800	2700	1800	2700
	<b>NORMAL.</b>			<b>MINIMUM</b>	<b>MAXIMUM</b>
Toe	Service Limit	0 (0) IN		3 (0.12) IN	3 (0.12) OUT
	Total Angle of RH & LH	0°		0° 18' IN	0° 18' OUT
Rear	Service Standard	0 (0) IN		2 (0.08) IN	2 (0.08) OUT
	Total Angle of RH & LH	0°		0° 12' IN	0° 12' OUT
Thrust Angle	Service Limit	0°		+0° 30'	-0° 30'
	Service Standard	0°		+0° 20'	-0° 20'

NOTE: USE THIS CHART TO UPDATE THE FIGURE FOR "WHEEL ALIGNMENT SPECIFICATIONS" IN THE APPLICABLE SERVICE MANUAL.

		DEGREES (0)								
MINUTES	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'
0'	-	0.017	0.033	0.050	0.067	0.083	0.100	0.117	0.133	0.150
10'	0.167	0.183	0.200	0.217	0.233	0.250	0.267	0.283	0.300	0.317
20'	0.333	0.350	0.367	0.383	0.400	0.417	0.433	0.450	0.467	0.483
30'	0.500	0.517	0.533	0.550	0.567	0.583	0.600	0.617	0.633	0.650
40'	0.667	0.683	0.700	0.717	0.733	0.750	0.767	0.783	0.800	0.817
50'	0.833	0.850	0.867	0.883	0.900	0.917	0.933	0.950	0.967	0.983