

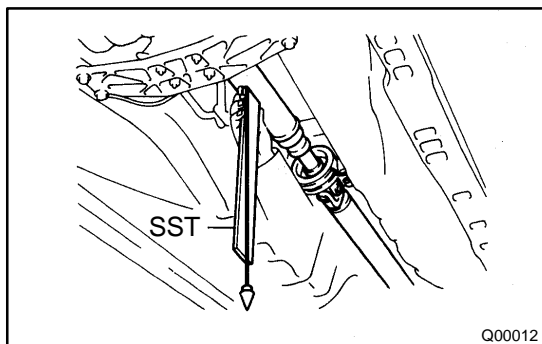
JOINT ANGLE INSPECTION

NOTICE:

When performing operations which involve the removal and installation of the propeller shaft, always check the joint angle. Make adjustments if necessary.

1. STABILIZE PROPELLER SHAFT AND DIFFERENTIAL

- (a) Turn the propeller shaft several times by hand to stabilize the center support bearing and flexible couplings.
- (b) Using a jack, raise and lower the differential to stabilize the differential mounting cushion.



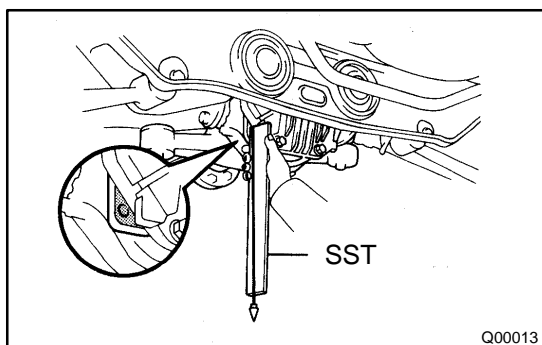
2. CHECK JOINT ANGLE OF NO.2 JOINT AND NO.3 JOINT

- (a) Using SST, measure the installation angle of the intermediate shaft and propeller shaft.

SST 09370-50010

HINT:

The SST should be directly underneath the tube.



- (b) Using SST, measure the installation angle of the differential.

SST 09370-50010

HINT:

Measure the installation angle by placing the SST in the position, as shown in the illustration.

- (c) Check the No.2 joint angle.

	No.2 joint angle: A – B
SC400	$-1^{\circ}05' \pm 36'$
SC300	$-1^{\circ}01' \pm 36'$

A: Intermediate shaft installation angle

B: Propeller shaft installation angle

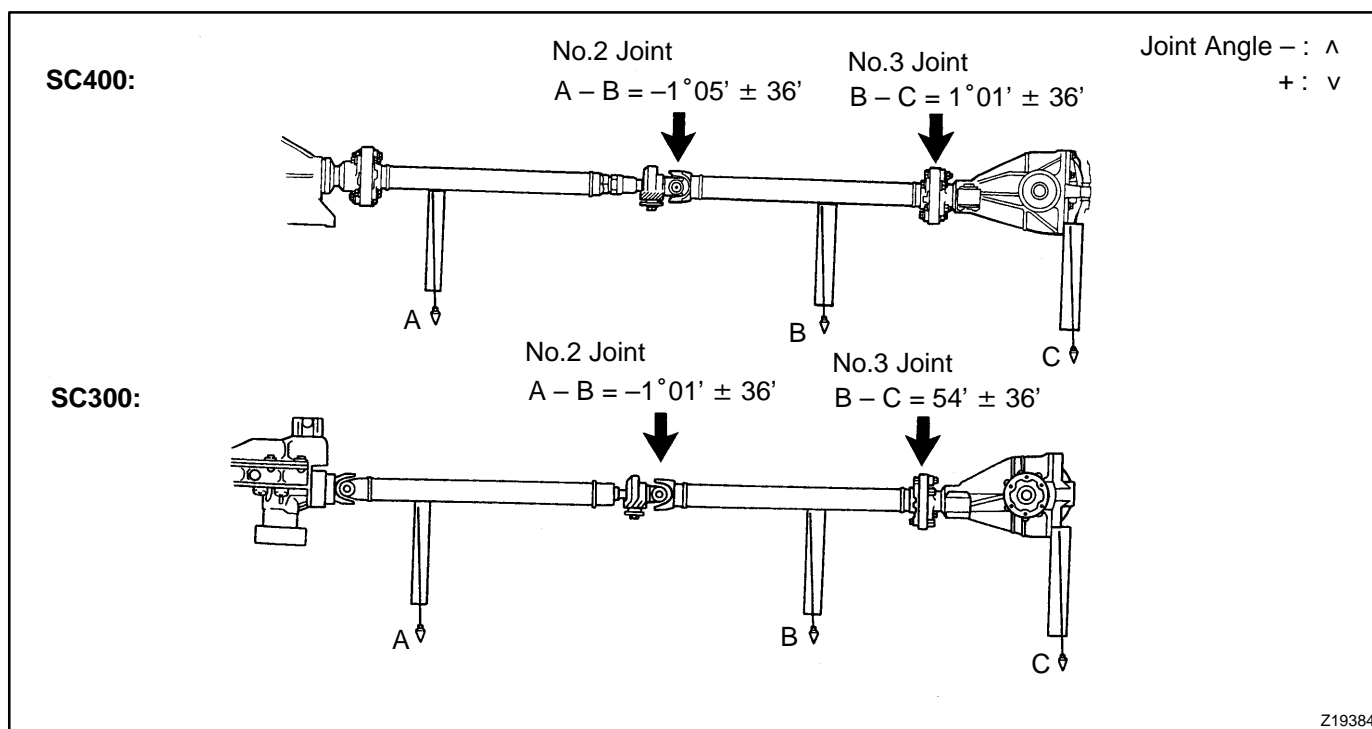
- (d) Check the No.3 joint angle.

	No.3 joint angle: B – C
SC400	$1^{\circ}01' \pm 36'$
SC300	$54' \pm 36'$

B: Propeller shaft installation angle

C: Differential installation angle

PROPELLER SHAFT - JOINT ANGLE

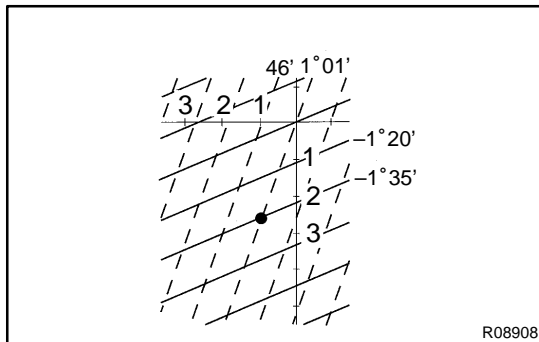
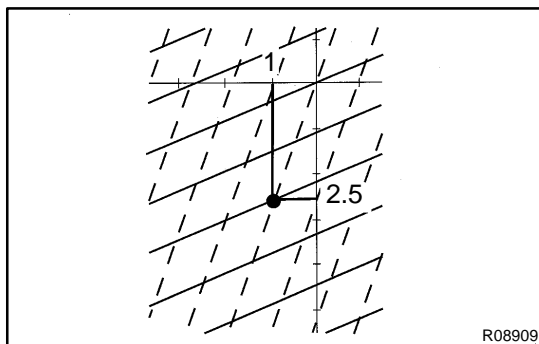


If the measured angle is not within the specification, adjust it with the center support bearing adjusting washer, differential mount upper stopper and adjusting shim.

		Thickness mm (in.)	Remarks
Center support bearing	Adjusting washer	2.0 (0.079) 4.0 (0.157) 6.0 (0.236) 8.5 (0.335)	<ul style="list-style-type: none"> Left and right washers should be the same thickness. 2 washers should not be assembled together. Standard parts are used 6.0 mm (0.236 in.) washers.
	Set bolt	40.0 (1.575)	
Differential	Mount upper stopper	2.3 (0.091) 2.8 (0.110)	<ul style="list-style-type: none"> When the vehicle is new a 2.8 mm (0.110 in.) stopper is used in assembly.
	Adjusting shim	1.0 (0.039) 1.6 (0.063) 2.0 (0.079)	<ul style="list-style-type: none"> Left and right washers should be the same thickness. This shim is installed on top of the mount upper stopper and is used for adjustment.

3. Example SC400:**HOW TO READ ADJUSTMENT CHART**

- Take measurements, then calculate the No.2 and No.3 joint angles.
- Mark the calculated values on the chart and read the coordinates.
- Replace the adjusting washer, shim and mount upper stopper in accordance with the coordinates read and adjust the joint angles.

**Example****Measurements (Installation angle):****Intermediate shaft: 1°10'****Propeller shaft: 2°45'****Differential: 1°44'****Joint angle:****No.2: 1°10' – 2°45' = –1°35'****No.3: 2°45' – 1°44' = 1°01'**

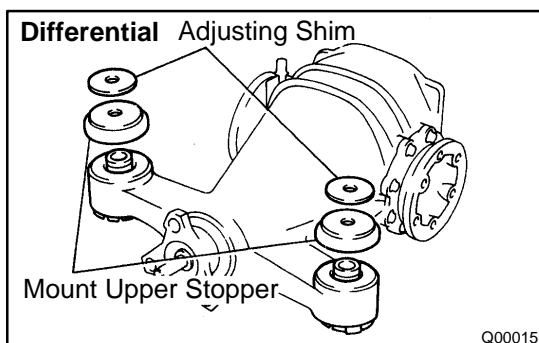
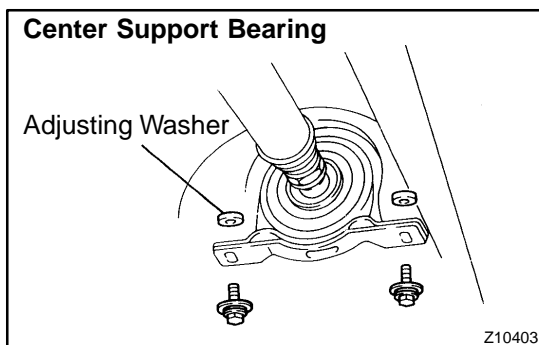
- Adjustment (Center support bearing):
Standard parts 6.5 mm (0.256 in.) + 2.5 mm (0.118 in.) = 8.5 mm (0.335 in.)
Use an adjusting washer which is 8.5 mm (0.335 in.) thicker.
- Adjustment (Differential):
Use an adjusting shims which are 1.0 mm (0.039 in.) thicker.

HINT:

- Maintain the same thickness for the adjusting washers and adjusting shims on both the left and right sides.
- If a washer, stopper and shim of the exact thickness are not available, use the parts which are nearest in thickness.

NOTICE:

Check the joint angle once again after making the adjustment.



ADJUSTMENT CHART

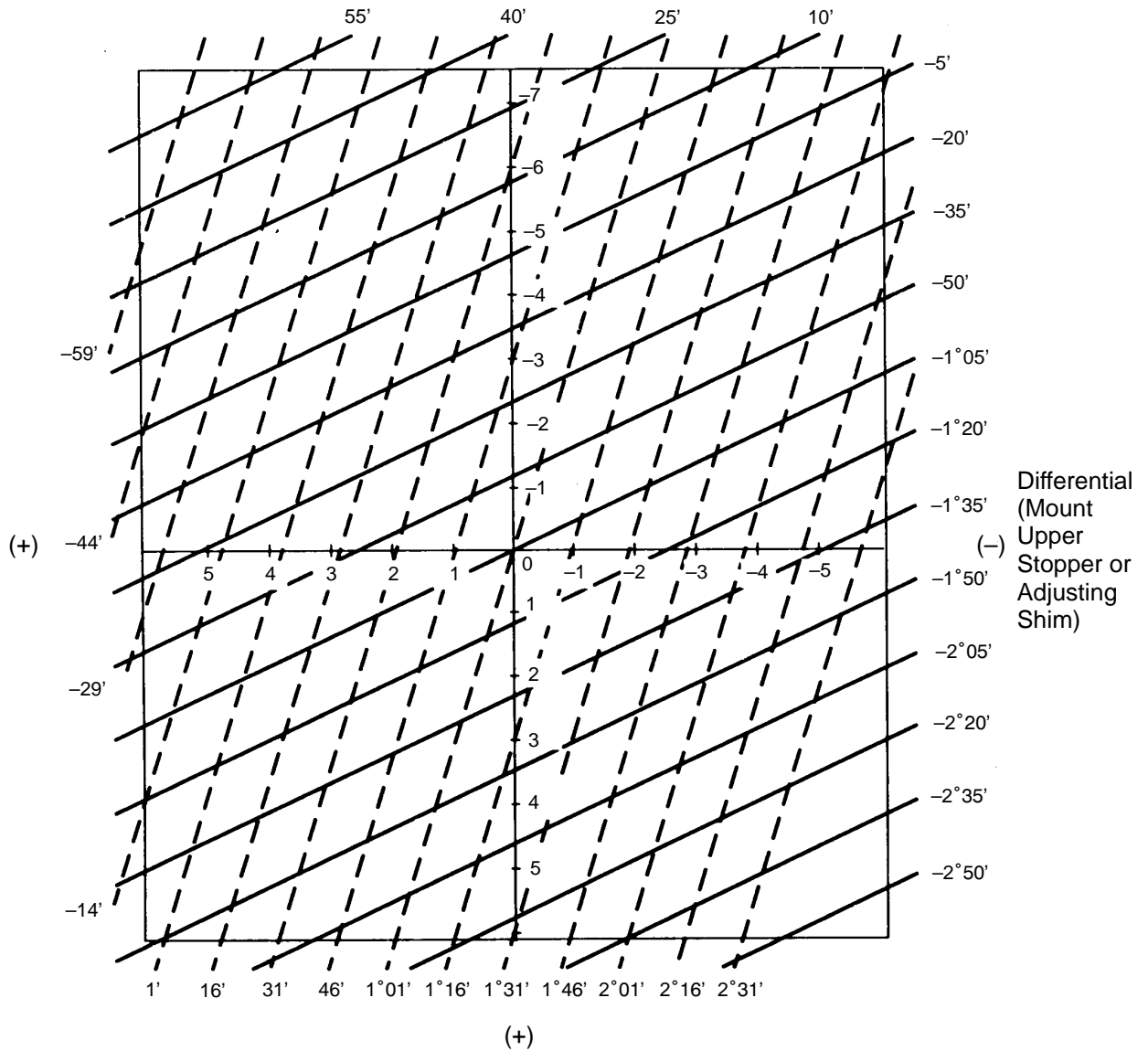
SC400:

No.2 Joint Angle —————

No.3 Joint Angle - - - - -

Center Support Bearing
(Adjusting Washer)

(-)

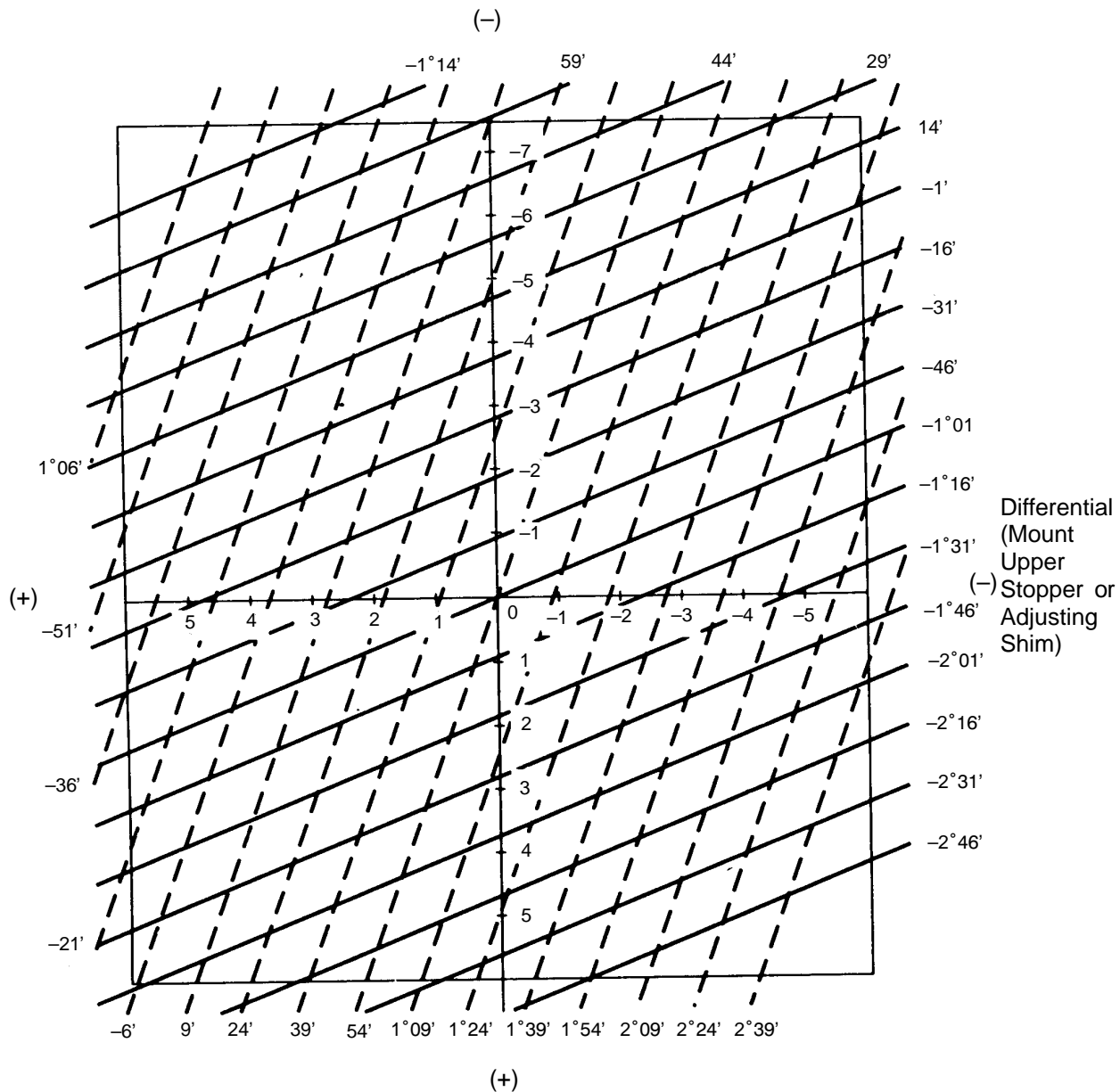


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ADJUSTMENT CHART**SC300:**

No.2 Joint Angle —————

No.3 Joint Angle - - - - -

Center Support Bearing
(Adjusting Washer)

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