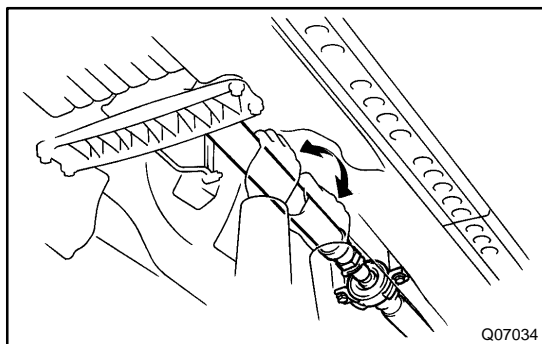


JOINT ANGLE INSPECTION

PR02F-01

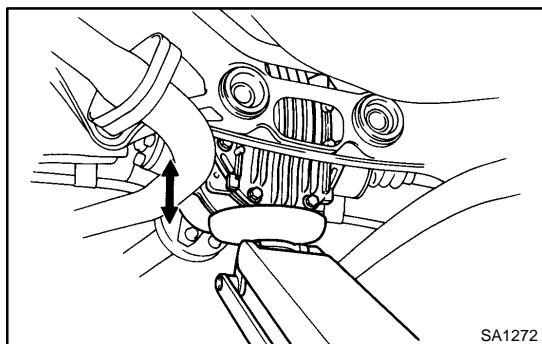
NOTICE:

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

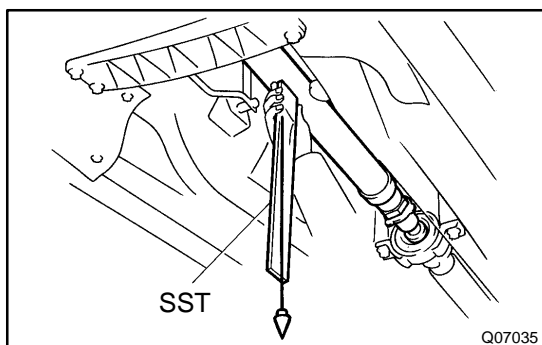


1. STABILIZE PROPELLER SHAFT AND DIFFERENTIAL

- (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.



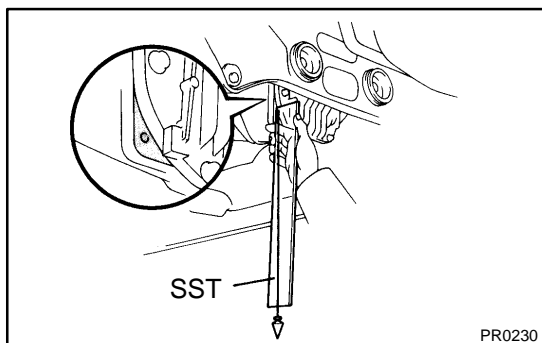
2. CHECK NO.2 AND NO.3 JOINT ANGLE

- (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) Calculate the No.2 joint angle.

No.2 joint angle:

$$A-B = -50' \pm 30'$$

A: Intermediate shaft installation angle

B: Propeller shaft installation angle

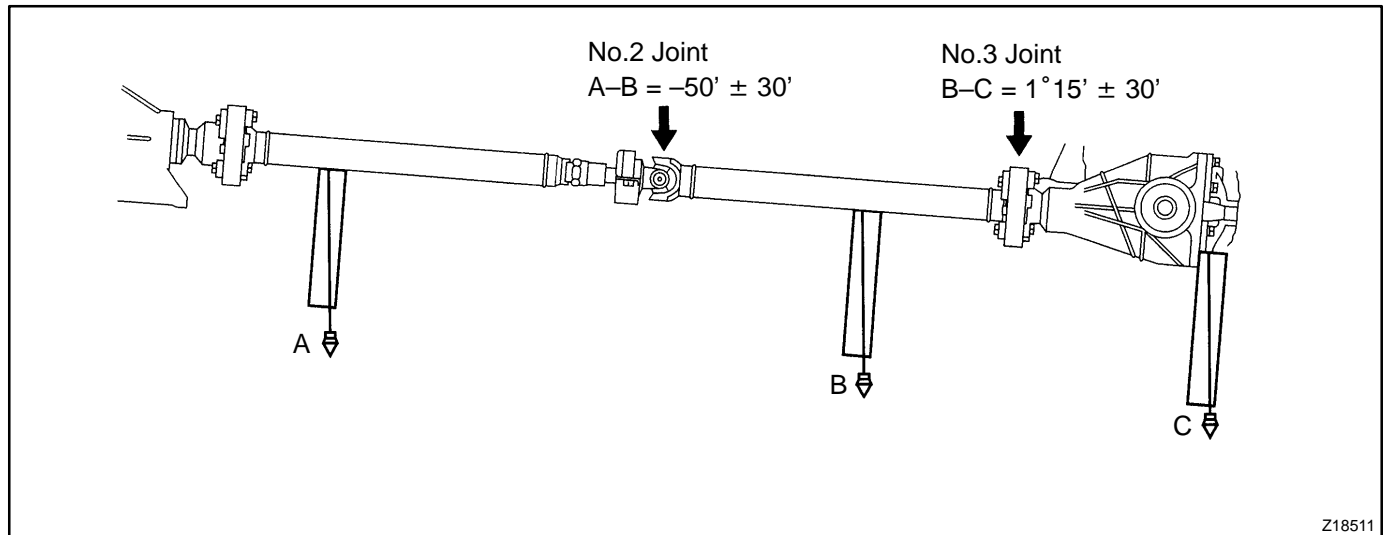
- (d) Calculate the No.3 joint angle.

No.3 joint angle:

$$B-C = 1^{\circ}15' \pm 30'$$

B: Propeller shaft installation angle

C: Differential installation angle

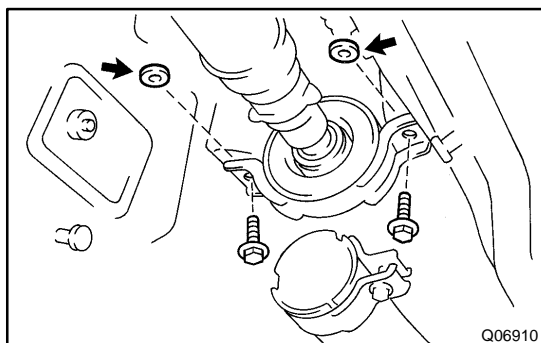


Z18511

If the measured angle is not within the specification, adjust the joint angle.

HINT:

Adjust joint angle using the adjustment chart, adjusting it with the center support bearing adjusting washer and differential shim.



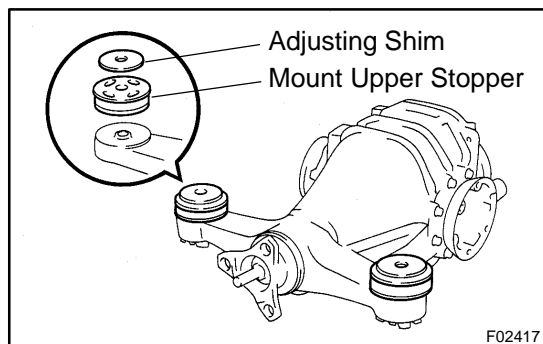
3. ADJUST NO.2 JOINT ANGLE

Select the proper center support bearing adjusting washer for adjustment.

Thickness mm (in.)	Thickness mm (in.)
1.0 (0.039)	4.5 (0.177)
2.0 (0.079)	6.5 (0.256)

HINT:

- Left and right washers should be the same thickness.
- 2 washers should not be assembled together.



4. ADJUST NO.3 JOINT ANGLE

Select the proper differential adjusting shim for adjustment.

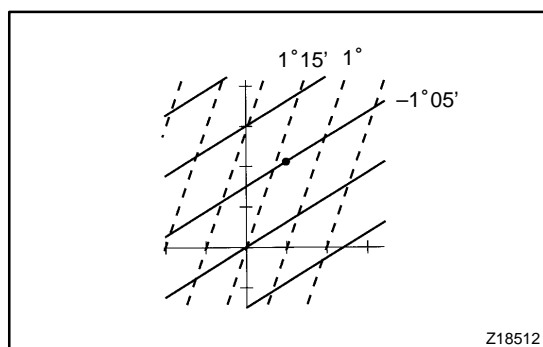
Thickness mm (in.)	Thickness mm (in.)
1.0 (0.039)	2.0 (0.079)
1.6 (0.063)	–

HINT:

- Left and right washers should be the same thickness.
- 2 washers should not be assembled together.
- This shim is installed on top of the mount stopper and is used for adjustment.

5. 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 and shim in accordance with the coordinates read and adjust the joint angles.



Example

Measurements (Installation angle):

Intermediate shaft: 2°00'

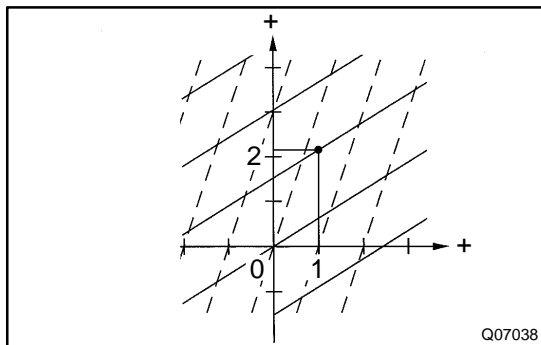
Propeller shaft: 3°05'

Differential: 1°54'

Joint angle:

No.2: 2°00' – 3°05' = -1°05'

No.3: 3°05' – 1°54' = 1°11'

**Adjustment (Center support bearing):**

Use an adjusting washer which is 2.0 mm (0.079 in.) thicker.

Adjustment (Differential):

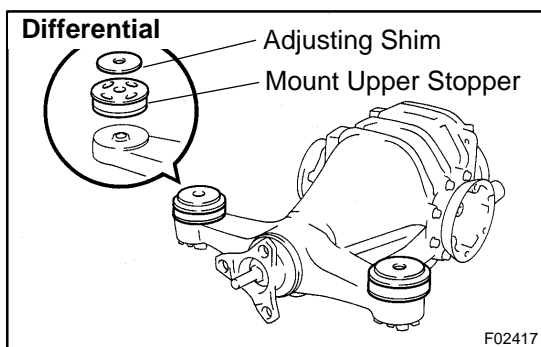
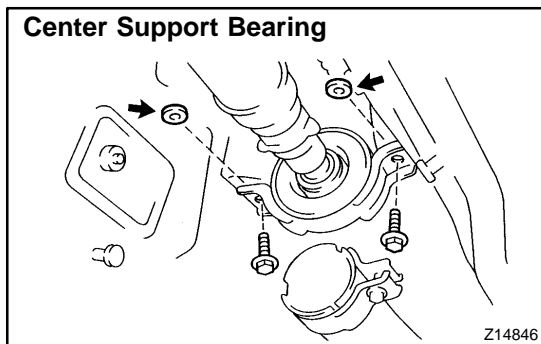
Use an adjusting shim which is 1.0 mm (0.039 in.) thicker.

HINT:

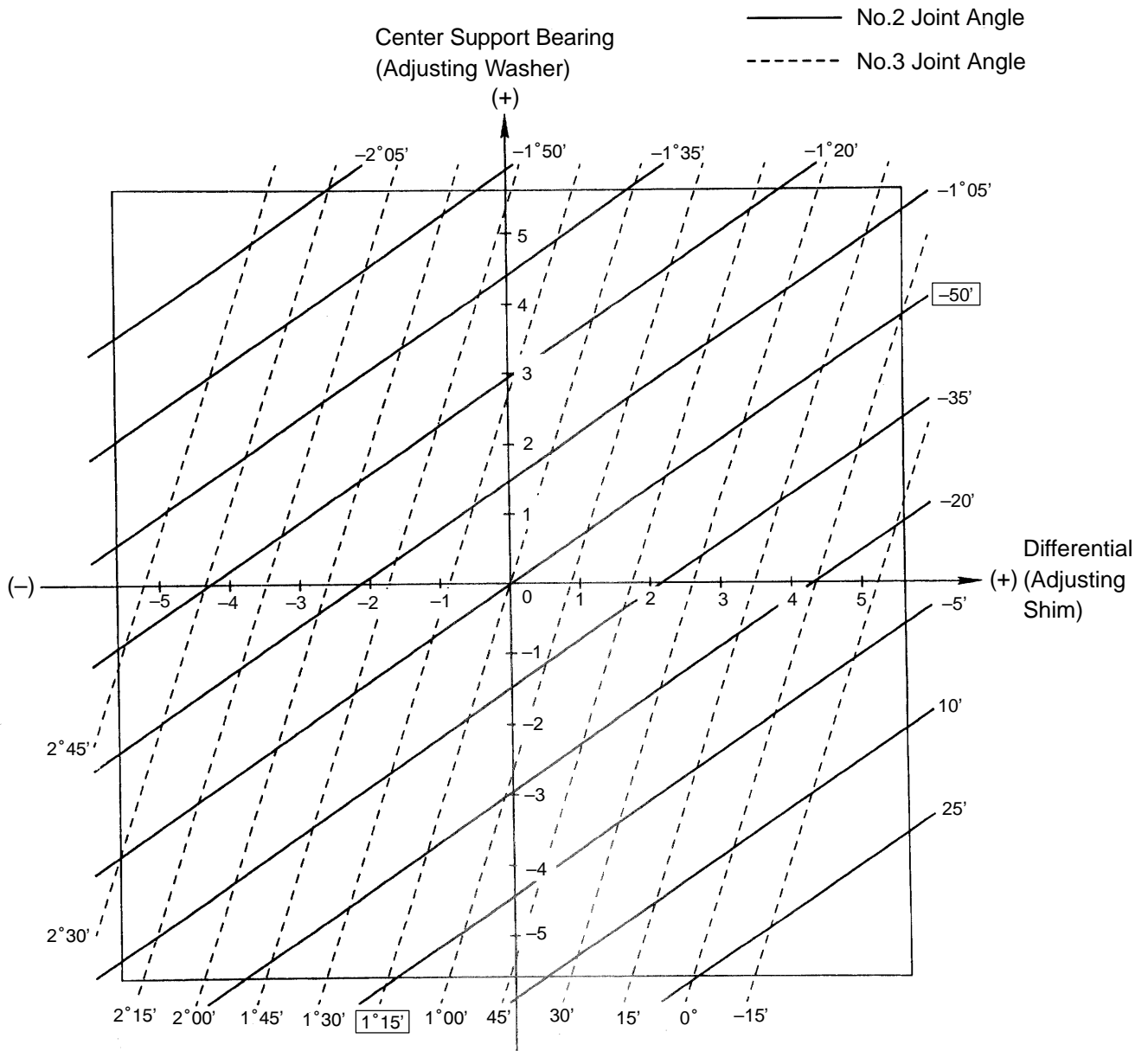
If a washer and shim of the exact thickness are not available, use the parts which are nearest in thickness.

NOTICE:

Check the joint angle once again after making the adjustment.



ADJUSTMENT CHART



Z18589