3. For the wheel bearing grease, use multipurpose grease (MIL G2108 or G10924).

Fill the portion indicated by asterisk (*) in Figure RA-25

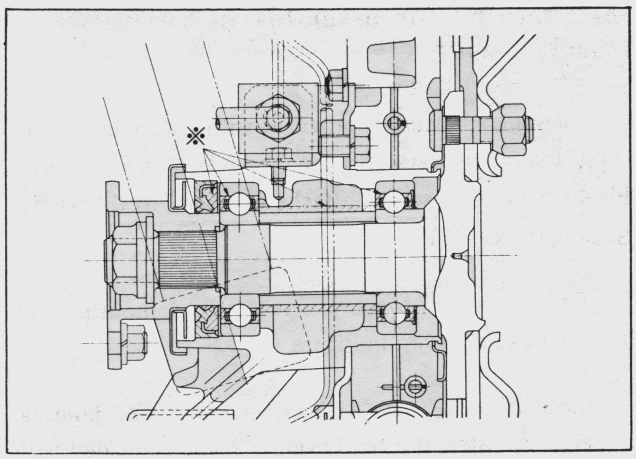


Fig. RA-25 Lubrication chaft of rear axle

4. Tighten the wheel bearing lock nut, and measure the rear axle shaft turning starting torque and rear axle shaft end play. Readjust as required.

Rear axle shaft turning starting torque:

4.5 kg-cm (390 in-lb)

At the hub bolt 790 gr (28.7 oz) or less

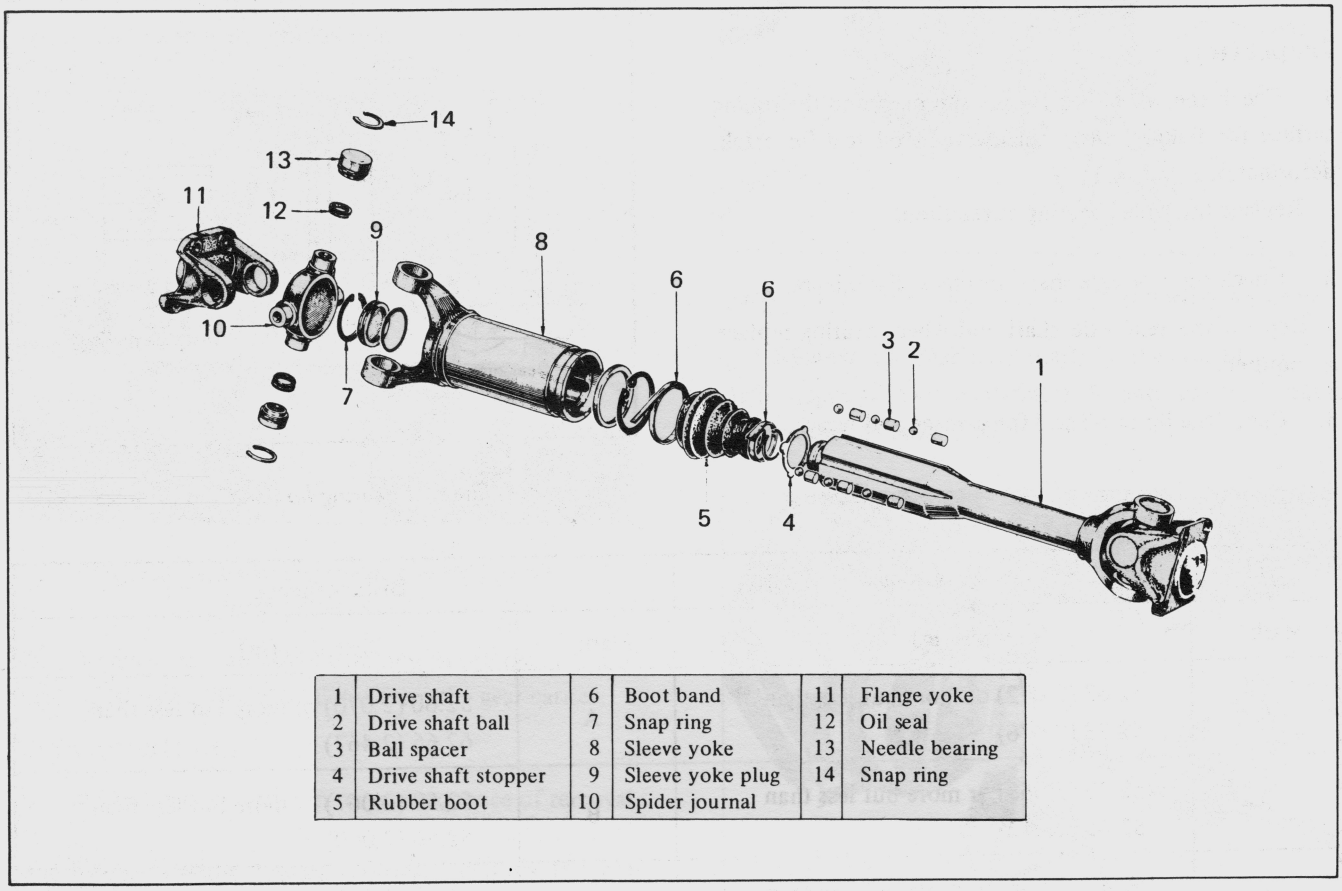
Rear axle shaft end play:

0 to 0.15 mm (0 to 0.0057 in)

5. Securely caulk the wheel nuts after tightening.

6. When fitting the wheel side wheel bearing, use rear axle shaft outer bearing drift (special tool ST37780000)

DRIVE SHAFT



1	Drive shaft	6	Boot band	11	Flange yoke
2	Drive shaft ball	7	Snap ring	12	Oil seal
3	Ball spacer	8	Sleeve yoke	13	Needle bearing
4	Drive shaft stopper	9	Sleeve yoke plug	14	Snap ring
5	Rubber boot	10	Spider journal		

Fig. RA-26 Drive shaft components

Removal

Remove the drive shaft universal joint yoke flange bolts from both sides. (indicated by arrow mark)

Note: Handle the drive shaft carefully because it is easily damaged.

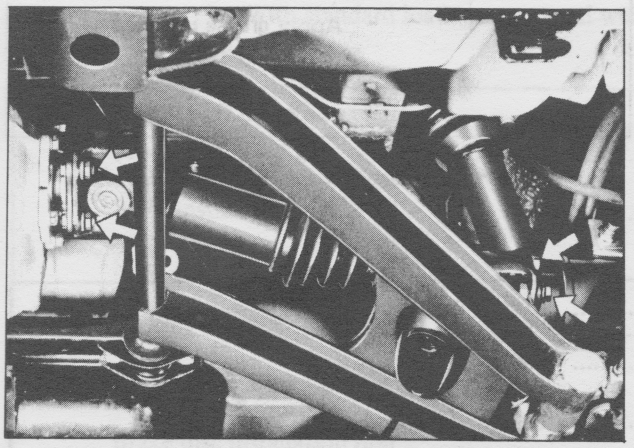


Fig. RA-27 Removing the drive shaft

Disassembly

The drive shaft should be disassembled only when lubricating the ball spline.

The lubrication is required every 50,000 km (30,000 miles).

1. Remove the universal joint spider from the differential side. Refer to the paragraph covering the propeller shaft.

2. Remove the snap ring from the sleeve yoke plug and remove the plug. Use drive shaft snap ring plier (special tool ST38300000).

Depress the drive shaft and remove the snap ring from the stopper.

Remove the stopper. Disconnect the boot and separate the drive shaft carefully so as not to lose the balls and spacers.

Inspection

1. Replace the boot and O-ring of the sleeve yoke plug, if damaged.

2. Check the drive shaft for straightness, crack, damage, wear or distortion.

Replace the drive shaft assembly as required.

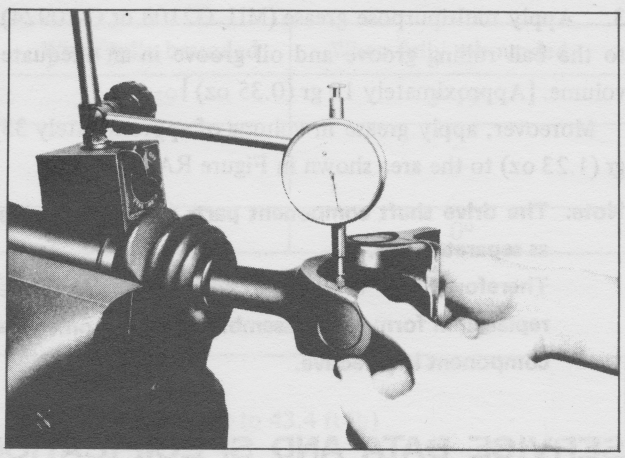


Fig. RA-28 Measuring drive shaft play

3. Check the steel balls and sleeve yoke for damage, wear or distortion.

Replace the drive shaft assembly as required.

4. Replace the universal joint in accordance with the instructions described in the paragraph covering the propeller shaft if faulty condition is detected.

5. Thoroughly remove grease from the sleeve yoke, drive shaft ball rolling groove and oil groove, and clean them. (Multipurpose grease MIL G2108, G10924)

6. Measure the drive shaft play as shown in the Figure RA-28. If the play exceeds 0.1 mm (0.0039 in), replace the drive shaft assembly. Be sure to measure the drive shaft play with the drive shaft compressed completley.

7. Check the drive shaft for radial play, and replace, if excessive.

Reassembly

Reassemble the drive shaft in reverse sequence of disassembly regarding the following matters:

1. Correctly align the yokes, and make sure that the steel balls and spacers have been installed in the correct order.

2. Selecting a suitable snap ring, adjust the axial play of the universal joint to within 0.02 mm (0.0008 in). Snap rings having four different thicknesses are available.

3. Apply multipurpose grease (MIL G2108 or G-10924) to the ball rolling groove and oil groove in an adequate volume. [Approximately 10 gr (0.35 oz)]

Moreover, apply grease in volume of approximately 35 gr (1.23 oz) to the area shown in Figure RA-29.

Note: The drive shaft component parts are not available as separate parts.
Therefore, the drive shaft assembly should be replaced in form of an assembly, although only one component is defective.

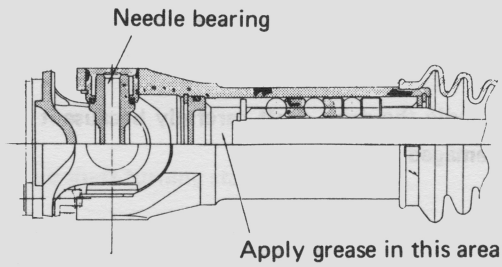


Fig. RA-29 Cross-sectional view of drive shaft

SERVICE DATA AND SPECIFICATIONS

SPECIFICATIONS FOR SPRING

Spring wire diameter	11.4 mm (0.449 in)
Spring coil diameter	100 mm (3.94 in)
Number of windings	10.65
Free height	381 mm (15.0 in)
Height when installed	225 mm (8.86 in)
Normal load	288 kg (635 lb)
Spring constant	1.85 kg/mm (103.6 lb/in)

SPECIFICATIONS FOR STRUT

Outer diameter	50.8 mm (2.000 in)
Piston rod diameter	24.945 to 24.975 mm (0.982 to 0.983 in)
Piston cylinder bore	32.020 to 32.060 mm (1.261 to 1.262 in)
Damping force at v = 0.3 m/s	
Expanding side	35 kg (77 lb)
Contracting side	20 kg (44 lb)
Piston rod	
Bend limit	0.1 mm (0.0039 in)
Wear limit	0.05 mm (0.0020 in)
Piston cylinder	
Bend limit	0.2 mm (0.0079 in)
Wear limit	0.1 mm (0.0039 in)
Strut oil manufacturer	NISSEKI shock absorber oil A-1
Volume of strut oil	320 cc (19.5 cu in)

REAR WHEEL ALIGNMENT

	With standard load*	With out load	When fully bounded	When fully rebounded
Camber	−24'	48'	−3°49'	3°19'
Tread	1,362.5 mm (53.64 in)	1,344.5 mm (52.93 in)	— —	— —
Toe-in	0°	0°	0°	0°

* "With standard load" means total weight of two riders or weighting 68 kg (150 lb) each.

TIGHTENING TORQUE

Drive shaft installation bolts (both wheel and gear carrier sides)	5 to 6 kg-m (36.2 to 43.4 ft-lb)
Strut installation nut	1.6 to 2.1 kg-m (11.6 to 15.2 ft-lb)
Strut rod self-lock nut	7.5 to 9.5 kg-m (54.2 to 68.7 ft-lb)
Packing gland	6.0 to 6.5 kg-m (43.4 to 47.0 ft-lb)
Rear axle bearing lock nut	25 to 33 kg-m (181 to 239 ft-lb)
Brake disc installation bolt	2.7 to 3.7 kg-m (19.5 to 26.8 ft-lb)
Brake hose (line) clamp nut	0.54 to 0.74 kg-m (3.9 to 5.4 ft-lb)
Wheel nut	8 to 9 kg-m (57.8 to 65.1 ft-lb)
Bearing housing spindle lock bolt	1.0 to 1.2 kg-m (7.2 to 8.7 ft-lb)
Transverse link outer self-lock nut	7.5 to 9.5 kg-m (54.2 to 68.7 ft-lb)
Transverse link inner bolt	14 to 16 kg-m (101 to 116 ft-lb)
Rear link mount bracket installation bolt	3.2 to 4.3 kg-m (23.1 to 31.1 ft-lb)
Front differential mount member installation bolt	3.2 to 4.3 kg-m (23.1 to 31.1 ft-lb)
Front differential mount member and front differential mount insulation insulator nut	3.2 to 4.3 kg-m (23.1 to 31.1 ft-lb)
Gear carrier and differential mount front insulator installation nut	6.0 to 8.0 kg-m (43.4 to 57.8 ft-lb)
Belt fitting self-lock nut	11.3 to 13.8 kg-m (82 to 100 ft-lb)
Belt fitting bracket installation bolt	3.2 to 4.3 kg-m (23.1 to 31.1 ft-lb)
Rear differential mount member installation nut	7.5 to 9.5 kg-m (54.2 to 68.7 ft-lb)
Rear differential mount insulator installation nut	7.5 to 9.5 kg-m (54.2 to 68.7 ft-lb)
Transverse link mounting brace installation bolt	3.2 to 4.3 kg-m (23.1 to 31.1 ft-lb)
Propeller shaft and differential companion flange installation nut	1.6 to 2.4 kg-m (11.6 to 17.4 ft-lb)