SERVICE MANUAL

DATSUN 280Z
MODEL S30 SERIES

NISSAN

NISSAN MOTOR CO., LTD.
TOKYO, JAPAN

SECTION RA

REAR AXLE & REAR SUSPENSION

RA

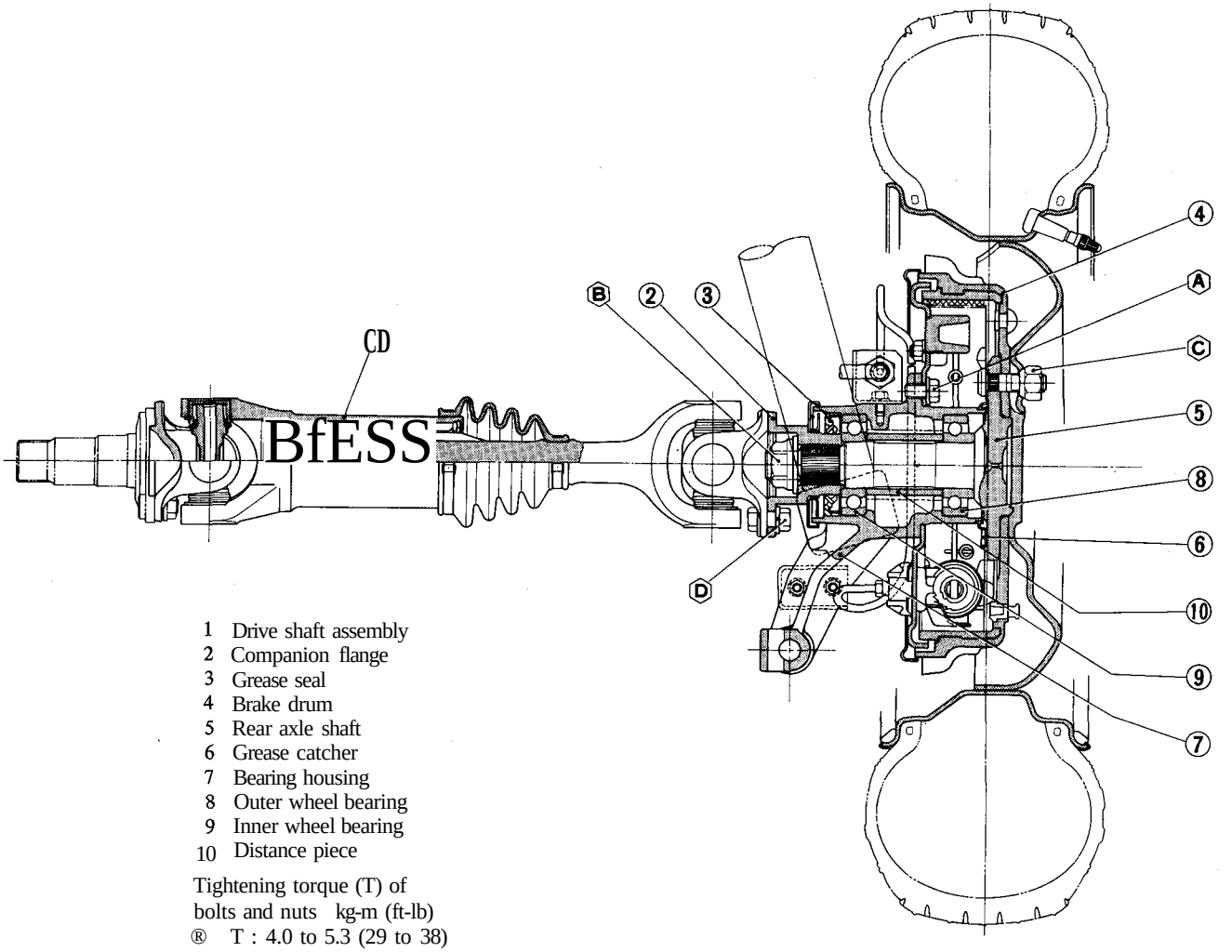
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DESCRIPTION

The rear suspension is a strut type independent suspension. Briefly, this means that the rear wheel is supported by the strut and transverse link, the gear carrier is aligned independently and separately from the suspension, and the gear carrier is installed directly on the body with rubber insulators. Thus, the three major rear suspension elements supporting the left wheel, right wheel, and gear carrier, are separated, and very high suspension performance is obtained.

As regards construction, the rear axle housing is brazed on the lower end of the strut which has a self-contained shock absorber, and the lower side is connected to the transverse link through rubber bushing. On the intermediate position of the strut, the body is suspended with a coil spring, the upper end is installed on the body through a rubber insulator, and the transverse link is also directly installed on the body with rubber bushings.

A horizontal leaf spring is connected to the rear end of the gear carrier, and the gear carrier is installed on the body at three positions (both ends of the leaf spring and the front end of the gear carrier) through rubber insulators. Driving power is transmitted to the rear axle shaft by the freely extensible drive shaft through side flanges on both ends of the gear carrier. The rear axle shaft is supported by two ball bearings in the axle housing.

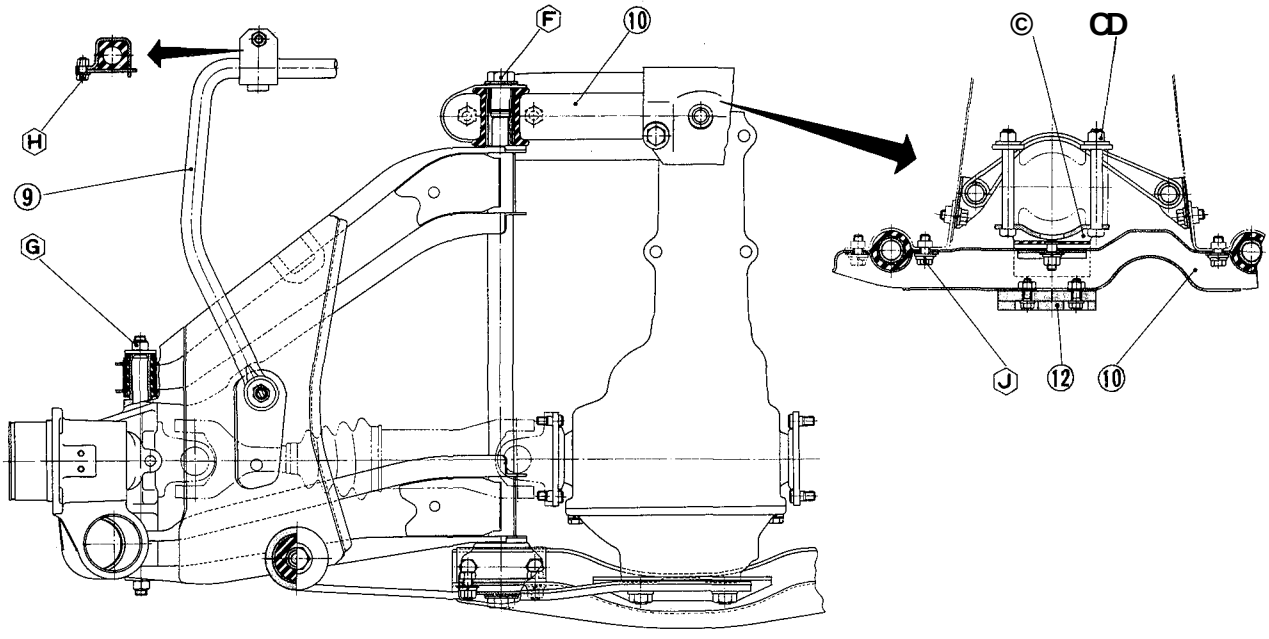


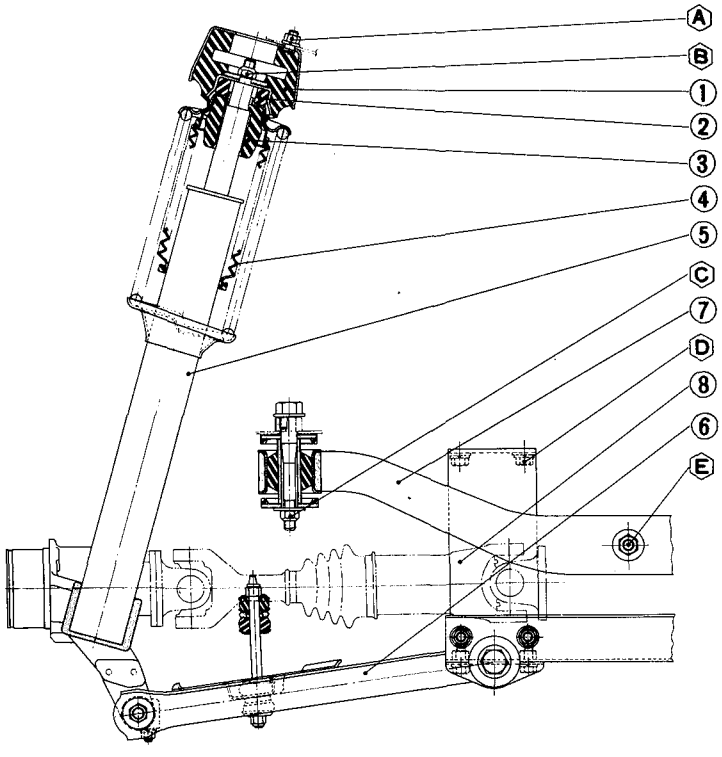
1 Drive shaft assembly
2 Companion flange
3 Grease seal
4 Brake drum
5 Rear axle shaft
6 Grease catcher
7 Bearing housing
8 Outer wheel bearing
9 Inner wheel bearing
10 Distance piece

Tightening torque (T) of bolts and nuts kg-m (ft-lb)
® T : 4.0 to 5.3 (29 to 38)
<S) T : 25 to 33 (181 to 239)
© T : 8.0 to 9.0 (58 to 65)
@ T : 5 to 6 (36 to 43)

RA315

Fig. RA-1 Cross sectional view of rear axle





RA316

1 Rear strut mounting insulator
2 Spacer
3 Bound bumper rubber
4 Dust cover
5 Strut assembly
6 Transverse link
7 Differential case mounting member
8 Link mounting brace
9 Stabilizer bar
10 Differential case mounting front member
11 Differential case mounting front insulator
12 Damper plate

Tightening torque (T) of bolts and nuts kg-m (ft-lb)
® T : 2.5 to 3.5 (18 to 25)
® T : 7.5 to 9.5 (54 to 69)
© T : 7.5 to 9.5 (54 to 69)
© T : 4.6 to 6.1 (33 to 44)
© T : 7.5 to 9.5 (54 to 69)
<& T: 14 to 16 (101 to 116)
© T : 7.5 to 9.5 (54 to 69)
® T: 1.0 to 1.2 (7 to 9)
CD T : 6.0 to 8.0 (43 to 58)
Q) T : 4.6 to 6.1 (33 to 44)

Fig. RA-2 Rear suspension system

REAR AXLE

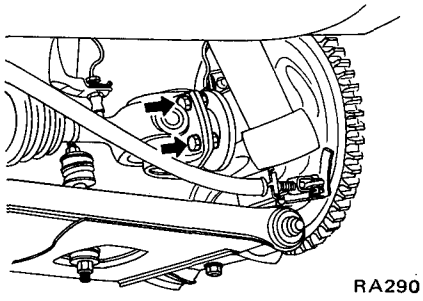
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WHEEL BEARING, OIL SEAL AND REAR AXLE SHAFT

REMOVAL

1. Chock front wheels.
2. Loosen wheel nuts, jack up the car, and support it with stands.
3. Remove wheel nuts and wheels.
4. Remove drive shaft installation bolts (wheel side). Refer to Figure RA-3.

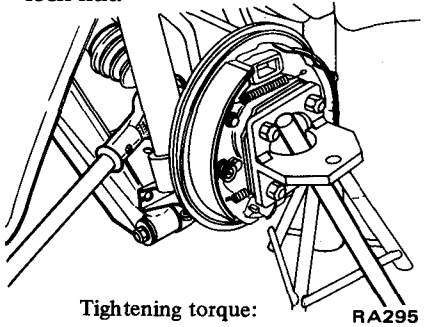


Tightening torque:
5.0 to 6.0 kg-m (36 to 43 ft-lb)

Fig. RA-3 Removing drive shaft

5. Remove rear wheel bearing lock nut. See Figure RA-4.

Note: Do not release caulking when removing the rear wheel bearing lock nut.



Tightening torque:
25 to 33 kg-m (181 to 239 ft-lb)

Fig. RA-4 Removing rear wheel bearing lock nut

6. Remove the rear axle shaft with Rear Axle Stand ST07640000 and Sliding Hammer ST36230000. See Figure RA-5.

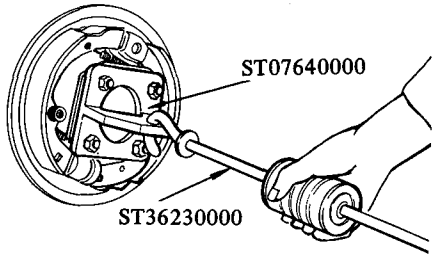


Fig. RA-5 Removing rear axle shaft

7. Remove companion flange and bearing washer.
8. Remove inner rear wheel bearing and grease seal.
9. Remove outer rear wheel bearing from rear axle shaft. See Figure RA-6.

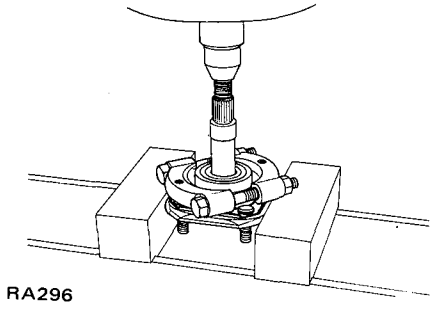


Fig. RA-6 Removing rear wheel bearing (outer side)

Note: Do not reuse bearing after removal.

INSPECTION

1. Check wheel bearing for end play, the rolling surface for flaking, wear, seizure, and grease seal for cracks or deformation.

   Replace wheel bearing as required.
2. Check rear axle shaft for cracks or seizure.

   Replace rear axle shaft and wheel bearing, as required.
3. Check grease seal lip for damage or wear.

INSTALLATION

Install wheel bearing, grease seal and rear axle shaft in reverse sequence of removal.

Note: Replace grease seal every disassembly.

INSTRUCTIONS FOR ASSEMBLY OF REAR WHEEL BEARING

1. Outer bearing has a seal on one side. Install outer bearing to the rear axle shaft so that the side to which the seal is attached faces the wheel. See Figure RA-8.
2. Relationship between rear bearing housing and distance piece is shown in Figure RA-7.

   A mark "A", "B", or "C" is stamped on housing. Select a distance piece having a mark corresponding to the mark on housing.

   When a distance piece is reused, make sure that both ends are not collapsed or deformed.

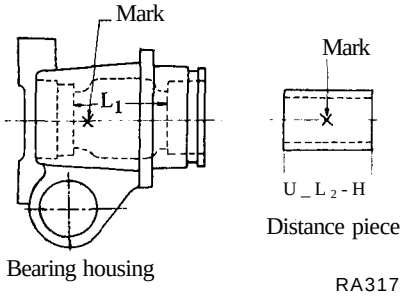
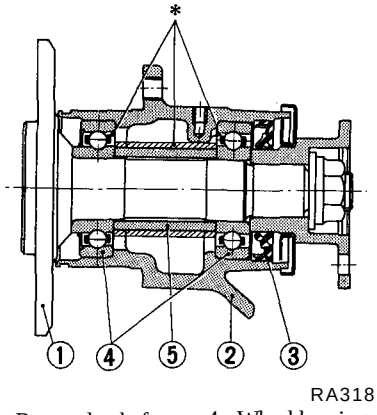


Fig. RA-7 Rear bearing housing and distance piece

3. For wheel bearing grease, use recommended multi-purpose grease.

Fill the portions indicated by asterisk (*) in Figure RA-8.



1 Rear axle shaft
2 Bearing housing
3 Grease seal
4 Wheel bearing
5 Distance piece

Fig. RA-8 Lubrication chart of rear axle

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

Tightening torque of wheel bearing lock nut:
25 to 33 kg-m
(181 to239ft-lb)

Wheel bearing preload:
4.5kg-cm(3.9in-lb)
At the hub bolt 790 gr (27.9 oz) or less

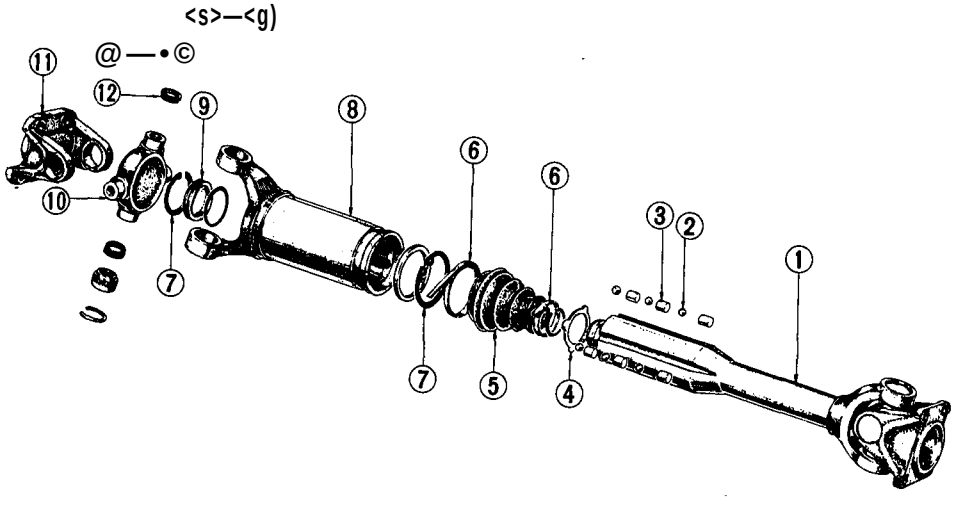
Rear axle shaft end play:
0 to 0.15 mm **(0** to 0.0059 **in)**

Note: Use new lock nuts every disassembly.

5. Caulk wheel bearing lock nuts securely after tightening.
6. When fitting outer rear wheel bearing, use Rear Axle Shaft Outer Bearing Drift ST37780000.

Rear bearing housing		Distance piece	
Mark	Size mm (in)	Mark	Size mm (in)
A	52.63 (2.0720) to 52.73 (2.0760)	A	52.60 (2.0709) to 52.66(2.0732)
B	52.53 (2.0681) to 52.63 (2.0720)	B	52.50 (2.0669) to 52.56 (2.0693)
C	52.43 (2.0642) to 52.53(2.0681)	C	52.40 (2.0630) to 52.46(2.0654)

DRIVE SHAFT



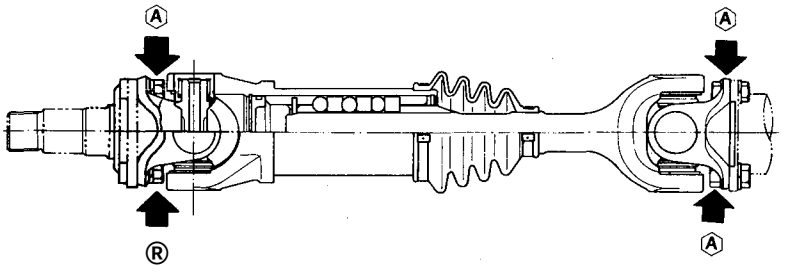
1 Drive shaft
2 Drive shaft ball
3 Ball spacer
4 Drive shaft stopper
5 Rubber boot
6 Boot band
7 Snap ring
8 Sleeve yoke
9 Sleeve yoke plug
10 Spider journal
11 Side yoke
12 Oil seal
13 Needle bearing
14 Snap ring

Fig. RA-9 Drive shaft components

REMOVAL

- Remove drive shaft universal joint yoke flange bolts from both sides. See Figure RA-10.

Note: The drive shaft is easily damaged; handle it carefully.
Lubricate needle bearings at specified intervals. Do not disassemble it when lubricating.



RA304

Tightening torque:
® : 5.0 to 6.0 kg-m (36 to 43 ft-lb)

Fig. RA-10 Removing drive shaft

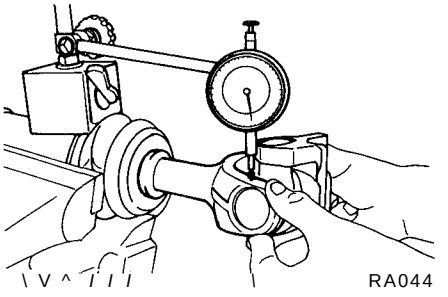
DISASSEMBLY

Drive shaft should be disassembled only when lubricating the ball spline.
Lubrication is required at specified intervals.

1. Remove universal joint spider from the differential side.
2. Remove snap ring from sleeve yoke plug and remove plug. Use Drive Shaft Snap RingPlier ST38300000.

Depress drive shaft and remove snap ring from stopper.

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



RA044

Fig. RA-11 Measuring drive shaft play

ASSEMBLY

Assemble drive shaft in reverse sequence of disassembly noting the following:

1. Correctly align yokes, and make sure that steel balls and spacers are installed in the correct order.
2. Selecting a suitable snap ring, adjust the axial play of universal joint to within 0.02 mm (0.0008 in). Snap rings of seven different thicknesses are available.

Universal joint bearing snap ring

Thickness mm (in)	Color identification
1.09 (0.0587)	White
1.52 (0.0598)	Yellow
1.55 (0.0610)	Red
1.58 (0.0622)	Green
1.61 (0.0634)	Blue
1.64 (0.0646)	Light brown
1.67 (0.0657)	Black

INSPECTION

1. Replace the boot and O-ring of sleeve yoke plug, if damaged.
2. Check drive shaft for straightness, cracks, damage, wear or distortion.

Replace drive shaft assembly as required.

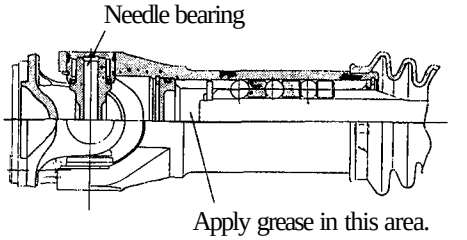
3. Check steel balls and sleeve yoke for damage, wear or distortion.

Replace drive shaft assembly as required.

4. If faulty condition is detected, replace universal joint.
5. Thoroughly remove grease from sleeve yoke, drive shaft ball rolling groove and oil groove, and clean them.
6. Measure the drive shaft play as shown in Figure RA-11. If play exceeds 0.1 mm (0.0039 in), replace drive shaft assembly. Be sure to measure the drive shaft play with drive shaft completely compressed.
3. Apply an adequate amount of recommended multi-purpose grease [approximately lOgr (0.35 oz)] to ball rolling groove and oil groove.

Moreover, apply approximately 35 gr (1.23 oz) of grease to the area shown in Figure RA-12.

Note: Drive shaft components are not available as separate parts.
Therefore, drive shaft must be replaced as an assembly, even if only one component is faulty.



RA045

Fig. RA-12 Cross-sectional view of drive shaft

REAR SUSPENSION

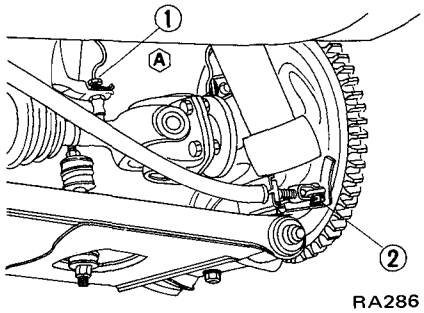
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REAR STRUT AND COIL SPRING

REMOVAL

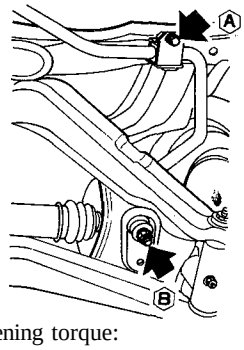
1. Chock the front wheels.
2. Loosen wheel nuts, jack up car, and support body with stands.
3. Remove wheel nuts and remove wheels.
4. Disconnect brake line connector (body side) (J) and side brake linkage (2). See Figure RA-13.



Tightening torque:
® : 1.5 to 1.8 kg-m (11 to 13 ft-lb)

Fig. RA-13 Removing brake hose and side brake linkage

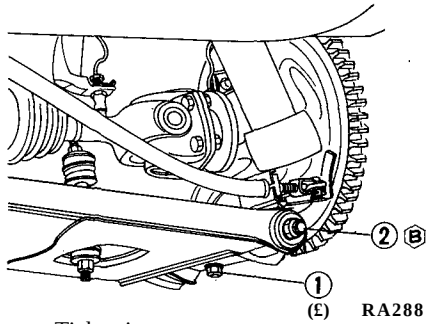
5. Remove stabilizer bar from transverse link. See Figure RA-14.



Tightening torque:
® : 1.0 to 1.2 kg-m (7.2 to 8.7 ft-lb)
(§) : 1.2 to 1.7 kg-m (8.7 to 12.3 ft-lb)

Fig. RA-14 Removing stabilizer from transverse link

6. Remove transverse link outer self-lock nuts (2) and lock bolt (T) of rear transverse spindle from the lower end of bearing housing. See Figure RA-15.



Tightening torque:
® : 1.0 to 1.2 kg-m (7.2 to 8.7 ft-lb)
(§) : 7.5 to 9.5 kg-m (54 to 69 ft-lb)

Fig. RA-15 Removing lock bolt and self-lock nuts

7. Withdraw spindle, and separate transverse link from strut assembly. See Figure RA-16.

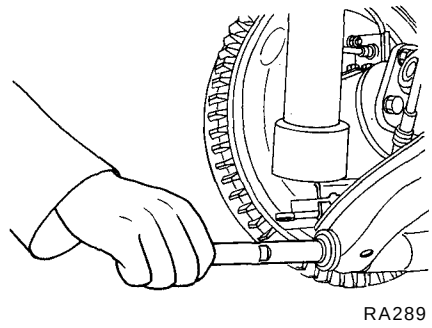
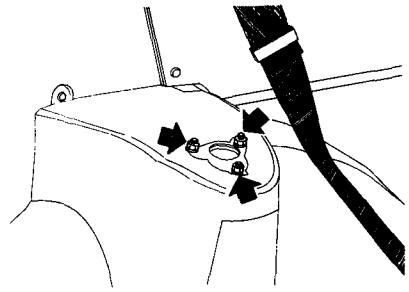


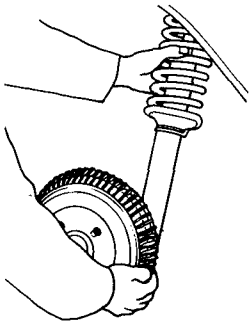
Fig. RA-16 Removing spindle

8. Disconnect drive shaft (wheel side).
9. Remove strut installation nuts (from the passenger compartment side). The strut assembly can be removed downward. See Figures RA-17 and RA-18.



Tightening torque:
2.5 to 3.5 kg-m (18 to 25 ft-lb)

Fig. RA-17 Removing strut installation nuts



RA292

Fig. RA-18 Removing strut assembly

Note: When removing strut assembly, place a jack under the lower end of strut, and remove it gradually.

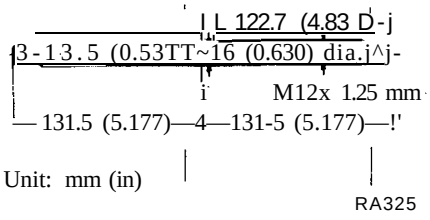
9. For the removal and reinstallation of spring, disassembly of strut, inspection and adjustment, apply the instructions for front strut assembly.
Refer to Section FA.

INSTALLATION

Install strut assembly in reverse sequence of removal.

Notes:

a. Install spindle so that the shorter side (when measured from the position where the lock bolt is installed) faces the front of car. See Figure RA-19.



RA325

Fig. RA-19 Spindle

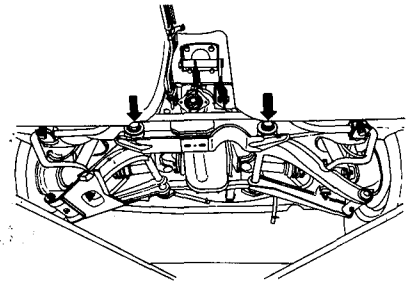
b. After installing wheels and placing car under the standard load, tighten transverse link outer self-lock nut completely.

c. When installing spring, make sure that it is correctly seated on spring seat.

GEAR CARRIER AND DIFFERENTIAL MOUNTING MEMBER

REMOVAL

1. Chock front wheels.
2. Jack up car, and support body with stands.
3. Remove main muffler. Refer to Section FE.
4. Separate propeller shaft from gear carrier. Refer to Section PD.
5. Loosen front side transverse link inner bolts. See Figure RA-20.

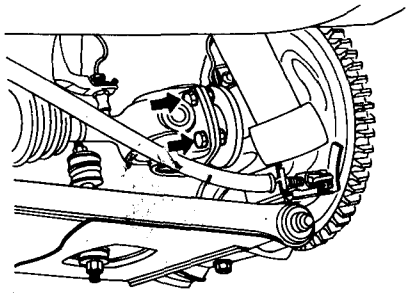


RA274

Tightening torque:
14 to 16 kg-m (101 to 116£t-lb)

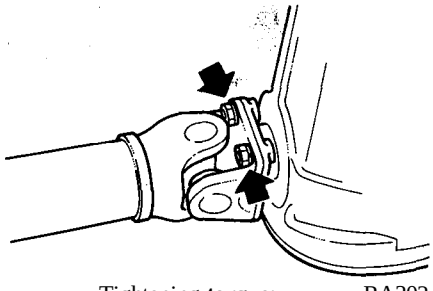
Fig. RA-20 Removing transverse link inner bolts

6. Remove drive shaft installation bolts (wheel side and gear carrier side), and separate drive shaft from the gear carrier. See Figures RA-21 and RA-22.



Tightening torque:
5.0 to 6.0 kg-m (36 to 43 ft-lb)

Fig. RA-21 Removing drive shaft installation bolts (wheel side)

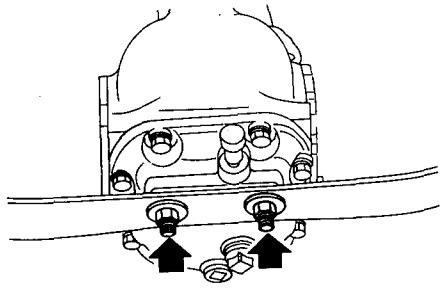


Tightening **torque:** RA302
5.0 to 6.0 kg-m (36 to 43 ft-lb)

Fig. RA-22 Loosening drive shaft installation bolts (gear carrier side)

7. Place a jack beneath gear carrier and raise it.

8. Remove differential mounting rear member iristallation nut. See Figure RA-23.

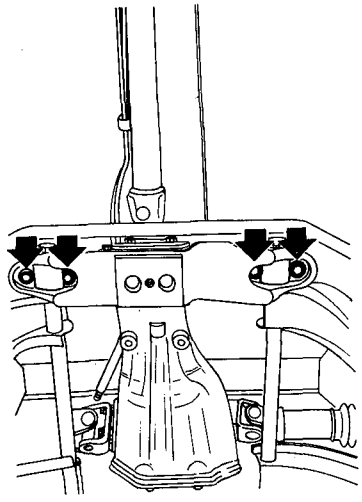


RA306

Tightening **torque:**
7.5 to **9.5 kg-m (54** to **69 ft-lb)**

Fig. RA-23 Removing differential mounting rear member

9. Remove differential mounting front member installation bolts, lower the jack slowly, and remove gear carrier and front mounting member as an assembly. See Figure **RA-24.**

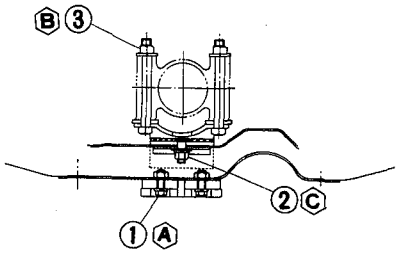


RA319

Tightening torque:
4.6 to 6.1 kg-m (33 to 44 ft-lb)

Fig. RA-24 Removing differential mounting front member

10. Remove front mounting damper and differential mounting front insulator. Gear carrier can then be removed. See Figure RA-25.



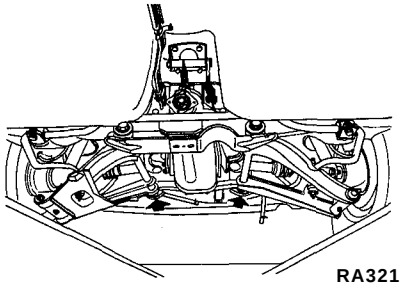
RA320

1 Front mounting damper plate installation bolt
2 Front mounting member and front insulator installation nut
3 Gear carrier and front insulator installation nut

Tightening torque:
® : 1.6to2.1kg-m (12 to 15 ft-lb)
(§! : 3.2to4.3kg-m (23 to 31 ft-lb)
© : 6.0to8.0kg-m (43 to 58 ft-lb)

Fig. RA-25 ***Removing damper plate bolts and mounting front insulator nuts***

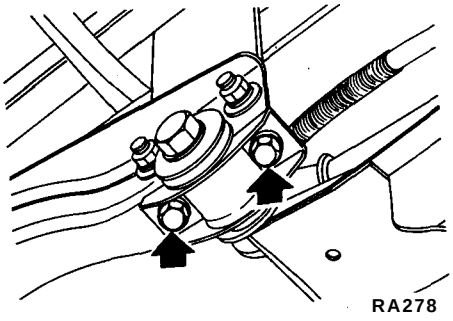
11. Loosen rear side transverse link inner bolts. See Figure RA-26.



RA321

Fig. RA-26 Removing transverse link inner bolts

12. Remove link mounting rear bracket. See Figure RA-27.

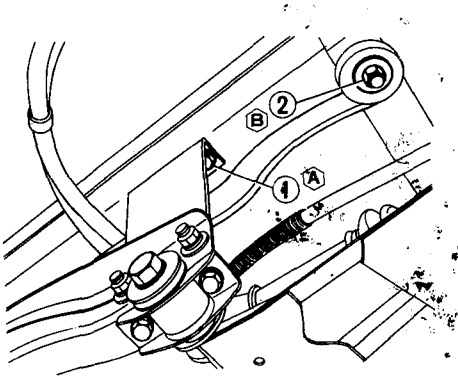


RA278

Tightening torque:
3.2 to 4.3 kg-m (23 to 31 ft-lb)

Fig. RA-27 Removing rear bracket

13. Remove transverse link mounting brace and body installation bolts ® and differential mounting rear insulator and body installation bolts (2). See Figure RA-28.



RA276

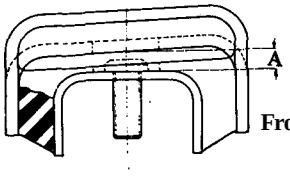
1 Transverse link mounting brace installation bolt
2 Differential mounting rear insulator installation bolt

Tightening torque:
® : 4.6 to 6.1 kg-m (33 to 44 ft-lb)
(g) : 7.5 to 9.5 kg-m (54 to 69 ft-lb)

Fig. RA-28 Removing link mounting brace and differential mounting member installation bolts

INSPECTION

1. Check gear carrier assembly. Refer to Section PD.
2. Check differential mounting front and rear members for cracks, deformation or damage. Replace as required.
3. Replace differential mounting front insulator if the dimension "A" is 9 mm (0.354 in) or greater, 2 mm (0.079 in) or smaller (unloaded). See Figure RA-29.



Front insulator

Fig. RA-29 Sectional view of differential mounting insulators

INSTALLATION

Install gear carrier and differential mounting member in reverse sequence of removal.

Notes:

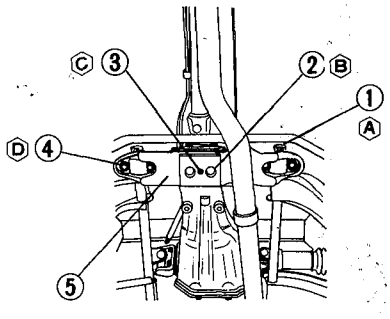
a. Tighten transverse link inner bolts after, installing wheels and placing car on ground under the standard load.

b. Install differential-.fronf insulator carefully with arrow-Howards the .front.

TRANSVERSE LINK

REMOVAL

1. Chock front wheels.
2. Loosen wheel Jiuts, jack up car, and support body with stands.
3. Remove wheel nuts, and remove wheels.
4. Remove stabilizer bar from transverse link.
5. Separate transverse link from the strut. (Refer to the paragraph on Strut and Coil Spring.)
6. Place a jack beneath gear carrier, and raise it.
7. Loosen transverse link inner bolts © and damper plate installation bolts (2). See Figure RA-30.
8. Remove the differential mount front insulator installation nut (3) .
9. Remove differential mounting front member installation nuts (4) , and remove differential mounting front member (5).

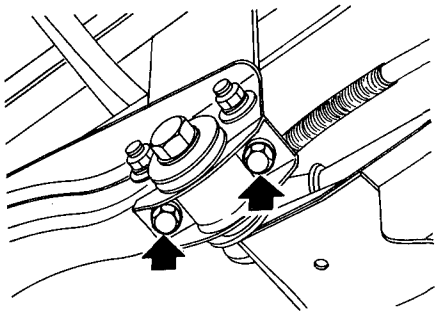


RA275

Tightening torque:
Ⓐ : 13 to 14 kg-m (94 to 101 ft-lb)
Ⓑ : 1.6 to 2.1 kg-m"(12 to 15 ft-lb)
Ⓒ : 3.2 to 4.3.kg-m (23 to 31 ft-lb)
Ⓡ : 3.0 to 4.6 kg-m (22 to 33 ft-lb)

Fig. RA-30 Removing differential mounting front member

10. Remove link mounting rear bracket. Transverse link can now be removed. See Figure RA-31.

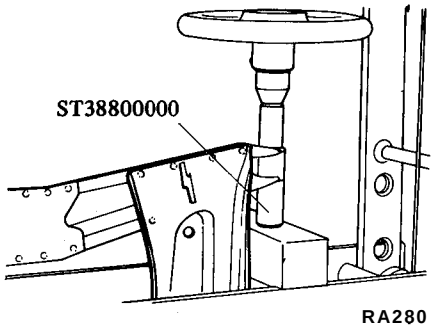


RA278

Tightening torque:
3.2 to 4.3 kg-m (23 to 31 ft-lb)

Fig. RA-31 Removing transverse link

11. Remove outer bushing from transverse link with Rear Transverse Link Bushing Replacer ST38800000. See Figure RA-32.



RA280

Fig. RA-9 Removing transverse link outer bushing

INSPECTION

1. Check transverse link differential mounting front member for cracks, deformation, or damage. Replace as required.
2. Check rubber bushing for decline, wear, or other faulty conditions and replace as required.

INSTALLATION

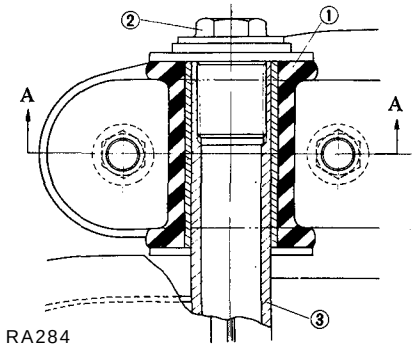
1. Install transverse link in reverse sequence of removal.
2. Install transverse link inner bushing by the following instructions.

Figures RA-33and RA-34.

(1) Install inner bushing to link shaft.

(2) Align projection on bushing (directed to the axis direction) horizontally.

(3) Align the center of bushing (directed toward the axis direction) to the center of bracket.

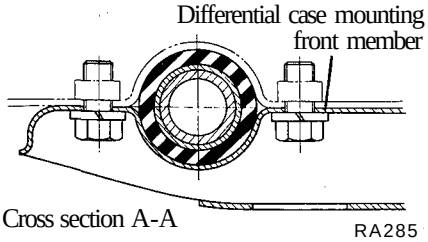


RA284

1 Transverse link inner bush
2 Transverse link inner bolt
3 Transverse link

Fig. RA-33 Cross-sectional view of transverse link inner bushing (I)

(4) First, tighten bolts supported in the vertical direction (differential mounting front member or link mounting rear bracket).



RA285

Fig. RA-34 Cross-sectional view of transverse link inner bushing (II)

(5) Temporarily tighten transverse link inner bolts.

Notes:

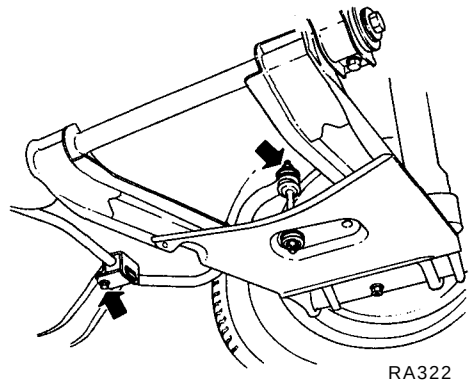
a. Tighten transverse link inner bolts and outer self-lock nuts after installing wheels and placing car on ground under the standard load.

b. Install differential carrier front insulator carefully with arrow towards the front.

STABILIZER

REMOVAL

1. Remove main muffler. Refer to Section FE.
2. Remove stabilizer bar from side member and remove connecting rod. See Figure RA-35.



RA322

Fig. RA-35 Removing stabilizer

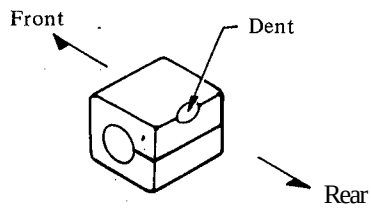
INSPECTION

1. Check stabilizer for condition. Discard if it is found damaged or cracked.
2. Check that bushings are in good condition. If necessary, replace.

INSTALLATION

To install stabilizer, reverse the above procedure, being sure that bushing on side member is properly seated.

Note: Make sure that the dent in rubber bushing faces towards the rear upper side. See Figure RA-36.



RA323

Fig. RA-36 Rubber bushing

SERVICE DATA AND SPECIFICATIONS

Wheel alignment (unladen)

		S30	GS30 (2+2 seats)
Camber	degree	-3' to 1°27'	-9'to 1°21'
Toe-in	mm (in)	-5 to 5 (-0.197 to 0.197)	-5 to 5 (-0.197 to 0.197)

Coil spring

Active turns of coil		8.5
Free length	mm (in)	392 (15.4)
Spring constant	kg/mm (lb/in)	2.28 (197.7)

Strut assembly

Damping force at piston speed
0.3 **m** (0.98 ft)/sec

Expansion/Compression	kg (lb)/kg (lb)	55 (121)/30(66)

Rear axle end play	mm (in)	0 to 0.15 (0 to 0.0059)

Tightening torque

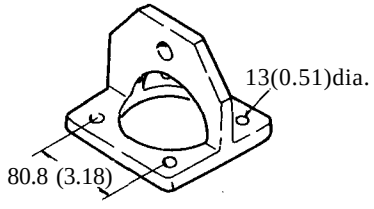
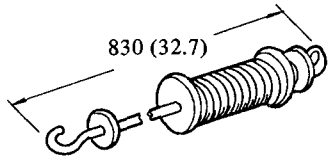
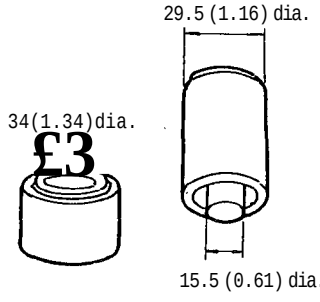
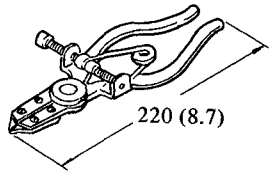
Drive shaft installation bolts		
Gear carrier side	**kg-m (ft-lb)**	**5.0 to 6.0 (36 to 43)**
Wheel side	**kg-m (ft-lb)**	**5.0 to 6.0 (36 to 43)**
Strut installation nut	**kg-m (ft-lb)**	**2.5 to 3.5 (18 to 25)**
Strut rod self-lock nut	**kg-m (ft-lb)**	**7.5 to 9.5 (54 to 69)**
Gland packing	**kg-m (ft-lb)**	**7** to **13 (51** to **94)**
Rear axle bearing lock nut	**kg-m (ft-lb)**	**25** to **33 (181** to 239)
Brake disc installation bolt	**kg-m (ft-lb)**	**2.7 to 3.7 (20 to 27)**
Brake hose (line) clamp nut	**kg-m (ft-lb)**	**1.5 to 1.8 (11 to 13)**
Wheel nut	**kg-m (ft-lb)**	**8 to 9 (58 to 65)**
Bearing housing spindle lock bolt	**kg-m (ft-lb)**	**1.0 to 1.2 (7.2 to 8.7)**
Transverse link outer self-lock nut	**kg-m (ft-lb)**	**7.5 to 9.5 (54 to 69)**
Transverse link inner bolt	**kg-m (ft-lb)**	**14** to 16(101 to **106)**
Rear link mounting bracket installation bolt	**kg-m (ft-lb)**	**3.2 to 4.3 (23 to 31)**

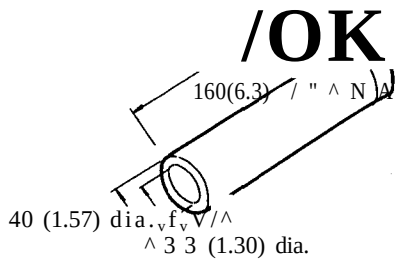
Front differential mounting member installation bolt	kg-m (ft-lb)	4.6 to 6.1 (33 to 44)
Front differential mounting member and front differential mounting insulator installation nut	kg-m (ft-lb)	3.2 to 4.3 (23 to 31)
Front mounting damper plate installation bolt	kg-m (ft-lb)	1.6 to 2.1 (12 to 15)
Gear carrier and differential mounting front insulator installation nut	kg-m (ft-lb)	6.0 to 8.0 (43 to 58)
Belt fitting self-lock nut	kg-m (ft-lb)	11.3 to 13.8 (82 to 100)
Belt fitting bracket installation bolt	kg-m (ft-lb)	3.2 to 4.3 (23 to 31)
Rear differential mounting member installation nut	kg-m (ft-lb)	7.5 to 9.5 (54 to 69)
Rear differential mounting insulator installation nut	kg-m (ft-lb)	7.5 to 9.5 (54 to 69)
Transverse link mounting brace installation bolt	kg-m (ft-lb)	4.6 to 6.1 (33 to 44)
Propeller shaft and differential companion flange installation nut	kg-m (ft-lb)	4.0 to 4.5 (29 to 33)

TROUBLE DIAGNOSES AND CORRECTIONS

Condition	Probable cause	Corrective action
Noise (unusual sound) It is difficult to definitely distinguish noise, or unusual sounds, emanating from the rear axle from other noises (unusual sounds) generated by the differential carrier and propeller shaft. If an unusual sound is present, therefore, check closely to be sure that the noise is in fact coming from the rear axle.	1) Loose joint.	Retighten.
	2) Unbalanced tires.	Adjust.
	3) Insufficient lubrication, improper adjustment, worn, or damaged wheel bearing.	Lubricate, adjust, or replace.
	4) Damaged transverse link rubber bushing.	Replace.
	5) Faulty shock absorber (in strut).	Replace.
	6) Damaged differential mount insulator.	Replace.
	7) Damaged universal joint.	Replace.
	8) Worn or seized drive shaft ball spline.	Replace.
	9) Broken coil spring.	Replace.
Unstable running. This problem is also related to the front suspension. For trouble diagnosis, refer to the paragraph covering the front suspension, also.	1) Loose wheel nut(s).	Retighten.
	2) Damaged transverse link bushing.	Replace.
	3) Reduced shock absorber damping force.	Replace.
	4) Seized or damaged drive shaft ball spline.	Replace.
	5) Weakened spring.	Replace.
Oil leakage	1) Damaged drive shaft dust cover.	Disassemble, clean, and reassemble, or replace dust cover.
	2) Worn or damaged rear axle shaft grease seal.	Replace.

SPECIAL SERVICE TOOLS

No.	Tool number & Tool name	Description Unit: mm (in)	For use on	Reference page or Figure No.
1.	ST07640000	Rear axle stand.  S6063	S30 B110 510 W510 V510 610 W610 V610 C130 KC130 C110 GC110	Fig. RA-4 Fig. RA-5
2.	ST36230000	Sliding hammer.  SE059	All models	Fig. RA-5
3.	ST38800000 Rear transverse link bushing replacer	For assembly and disassembly of the rear transverse link bushing  	S30	Fig. RA-32
4.	ST38300000 (ST49210000) Drive shaft snap ring plier	For removal of the drive shaft snap ring  	S30 510 610 KC130 GC110	Page RA-9

No.	Tool number & tool name	Description Unit: mm (in)	For use on	Reference page or Figure No.
5.	ST37780000 Rear axle shaft outer bearing drift	For assembly of the rear wheel bearing (outer side) 	S30	Page RA-8