## **STEERING SYSTEM**

SECTION V

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## Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a seat belt, help to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The Supplemental Restraint System consists of air bag modules (located in the center of the steering wheel and on the instrument panel on the passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.

In addition to the supplemental air bag modules for a frontal collision, the supplemental side air bag used along with the seat belt helps to reduce the risk or severity of injury to the driver and front passenger in a side collision. The supplemental side air bag consists of air bag modules (located in the outer side of front seats), satellite sensor, diagnosis sensor unit (which is one of components of supplemental air bags for a frontal collision), wiring harness, warning lamp (which is one of components of supplemental air bags for a frontal collision). Information necessary to service the system safely is included in the **RS section** of this Service Manual.

#### WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses (except "SEAT BELT PRE-TENSIONER" connector) can be identified with yellow harness connector (and with yellow harness protector or yellow insulation tape before the harness connectors).

### **Precautions for Steering System**

- Before disassembly, thoroughly clean the outside of the unit.
- Disassembly should be done in a clean work area. It is important to prevent the internal parts from becoming contaminated by dirt or other foreign matter.
- Place disassembled parts in order, on a parts rack, for easier and proper assembly.
- Use nylon cloths or paper towels to clean the parts; common shop rags can leave lint that might interfere with their operation.
- Before inspection or reassembly, carefully clean all parts with a general purpose, non-flammable solvent.
- Before assembly, apply a coat of recommended ATF\* to hydraulic parts. Vaseline may be applied to O-rings and seals. Do not use any grease.
- Replace all gaskets, seals and O-rings. Avoid damaging O-rings, seals and gaskets during installation. Perform functional tests whenever designated.
  - \*: Automatic Transmission Fluid type DEXRON<sup>TM</sup> III or equivalent.

## **Special Service Tools**

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description	GI
KV48103400 (See J26364) Torque adapter	Measuring pinion rotating torque	MA
KV48102500 (J33914) Pressure gauge adapter	NT236 PF3/8" DE O Measuring oil pressure	EM LC EC
ST27180001 (J25726-A) Steering wheel puller	PF3/8" M16 x 1.5 pitch M16 x 1.5 pitch M16 x 1.25 pitch Removing steering wheel	Fe
HT72520000	NT544 (1.14 in) A B B M8 x 1.25 pitch Removing ball joint	MT  AT
(J25730-A) Ball joint remover	a: 33 mm (1.30 in)           b: 50 mm (1.97 in)           r: R11.5 mm (0.453 in)	Fa — Ra
KV48103500 (J26357 and J26357-10) Pressure gauge	To oil pump outlet PF3/8" (female)	BR
KV48104400 ( — ) Rack seal ring reformer	NT547 Shut-off valve Reforming teflon ring	RS
	a: 50 mm (1.97 in) dia. b: 36 mm (1.42 in) dia. c: 100 mm (3.94 in)	BT
ST3127S000 (See J25765-A) ① GG91030000 (J25765-A)	Measuring turning torque	HA El
Torque wrench (2) HT62940000 ( — ) Socket adapter (3) HT62900000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	IDX
( — ) Socket adapter	NT541	

## PRECAUTIONS AND PREPARATION

Tool name	Description	
Rear oil seal drift		Installing rear oil seal
	a	
	NT063	a: 28 mm (1.10 in) dia.
Pinion oil seal drift	a	Installing pinion oil seal
	NT063	a: 35 mm (1.38 in) dia.
Oil pump attachment	R21 (0.83) 11 (0.43) dia. 42 (1.65) 95 (3.74) NT 179 Welding 12 (0.47) 40 (1.57) 12 (0.47) 90 (3.54) NT 179	Disassembling and assembling oil pump Unit: mm (in)

## **Commercial Service Tools**

## NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

## **NVH Troubleshooting Chart**

Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

Reference	page		ST-7	ST-7	ST-18	ST-18	ST-18	ST-7	ST-6	ST-8	Refer to MA section.		ST-12	ST-6	ST-12	ST-10	ST-14, 16	NVH in FA section	NVH in FA, RA section	NVH in FA section	NVH in FA section	NVH in BR section	gi Ma Em
													of tilt lock lever		lage	steering column							LC
Possible ca SUSPECTE				ystem	swinging force	rotating torque	end play	id leakage	lay	k sliding force	ess	g wheel	Improper installation or looseness of	detenoration	Steering column deformation or damage	Improper installation or looseness of	looseness		PENSION				fe Cl
			Fluid level	Air in hydraulic system	Tie-rod ball joint swinging force	Tie-rod ball joint rotating torque	Tie-rod ball joint end play	Steering gear fluid leakage	Steering wheel play	Steering gear lack sliding force	Drive belt looseness	Improper steering wheel	Improper installat	Mounting rubber detenoration	Steering column	Improper installat	Steering linkage looseness	DRIVE SHAFT	AXLE AND SUSPENSION	TIRES	ROAD WHEEL	BRAKES	MT AT
		Noise	x	x	x	x	x	x	х	x	x							х	х	х	х	x	
		Shake										Х	х	x				х	х	Х	Х	x	FA
Symptom	STEER-	Vibration										Х	Х	Х	Х	х		Х	х	Х			
		Shimmy					_					X	X	X			х		X	Х	X	x	RA
		Judder												Х			Х		X	Х	Х	x	

X: Applicable

BR

ST

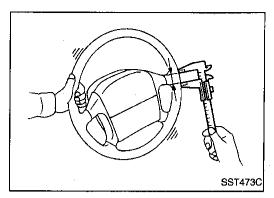
RS

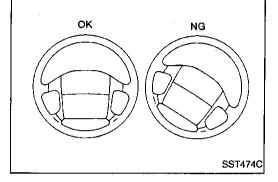
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## **Checking Steering Wheel Play**

 With wheels in a straight-ahead position, check steering wheel play.

Steering wheel play: 35 mm (1.38 in) or less

 If it is not within specification, check the following for loose or worn components.

Steering gear assembly Steering column Front suspension and axle

## Checking Neutral Position on Steering Wheel

#### Pre-checking

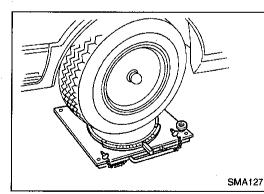
Make sure that wheel alignment is correct.
 Wheel alignment:
 Defended on the section

Refer to SDS in FA section.

 Verify that the steering gear is centered before removing the steering wheel.

### Checking

- 1. Check that the steering wheel is in the neutral position when driving straight ahead.
- 2. If it is not in the neutral position, remove the steering wheel and reinstall it correctly.
- 3. If the neutral position is between two teeth, loosen tie-rod lock nuts. Turn the tie-rods by the same amount in opposite directions on both left and right sides.



## **Front Wheel Turning Angle**

1. Rotate steering wheel all the way right and left; measure turning angle.

Turning angle of full turns: Refer to SDS in FA section.

2. If it is not within specification, check rack stroke. Rack stroke "S": Refer to SDS (ST-27).

SST475C

## **Checking Gear Housing Movement**

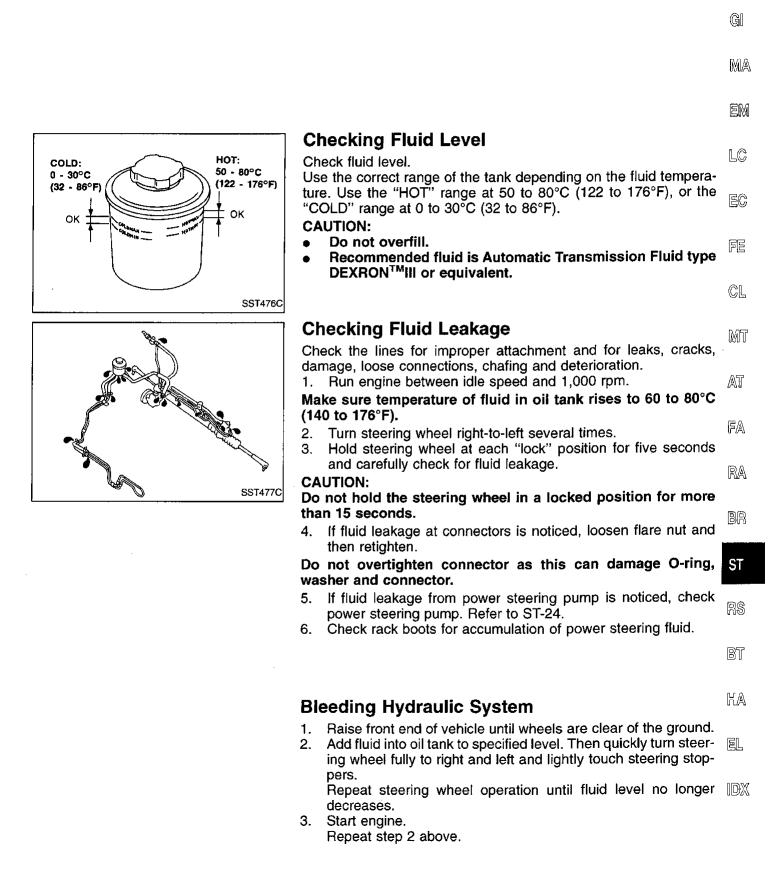
- 1. Check the movement of steering gear housing during stationary steering on a dry paved surface.
- Apply a force of 49 N (5 kg, 11 lb) to steering wheel to check the gear housing movement. Turn off ignition key while checking. Movement of gear housing:

±2 mm (±0.08 in) or less

2. If movement exceeds the limit, replace mount insulator after confirming proper installation of gear housing clamps.

## **Checking and Adjusting Drive Belts**

Refer to "Checking Drive Belts" for "ENGINE MAINTENANCE" in MA section.



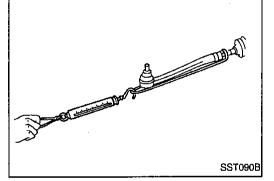
## **ON-VEHICLE SERVICE**

## Bleeding Hydraulic System (Cont'd)

- Incomplete air bleeding will cause the following to occur. When this happens, bleed air again.
- a. Air bubbles in reservoir tank
- b. Clicking noise in oil pump
- c. Excessive buzzing in oil pump

Fluid noise may occur in the valve or oil pump. This is common when the vehicle is stationary or while turning steering wheel slowly. This does not affect performance or durability of the system.

# After turning 360° SST478C



## **Checking Steering Wheel Turning Force**

- 1. Park vehicle on a level, dry surface and set parking brake.
- 2. Start engine.
- 3. Bring power steering fluid up to adequate operating temperature. [Make sure temperature of fluid is approximately 60 to 80°C (140 to 176°F).]

Tires need to be inflated to normal pressure.

4. Check steering wheel turning force when steering wheel has been turned 360° from the neutral position.

Steering wheel turning force: 39 N (4 kg, 9 lb) or less

- 5. If steering wheel turning force is out of specification, check rack sliding force.
- a. Disconnect steering column lower joint and knuckle arms from the gear.
- b. Start and run engine at idle to make sure steering fluid has reached normal operating temperature.
- c. Pull tie-rod slowly to move it from neutral position to  $\pm 11.5$  mm ( $\pm 0.453$  in) at speed of 3.5 mm (0.138 in)/s. Check that rack sliding force is within specification.

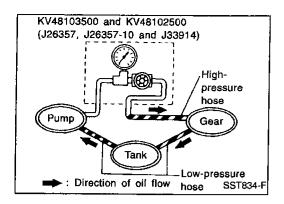
Rack sliding force:

- 216 284 N (22 29 kg, 49 64 lb)
- d. Check sliding force outside above range.

#### Rack sliding force:

#### Not more than 294 N (30 kg, 66 lb)

- 6. If rack sliding force is not within specification, refer to "Checking Hydraulic System", ST-9.
- 7. If rack sliding force is OK, inspect steering column. Refer to ST-13.



## **Checking Hydraulic System**

Before starting, check belt tension, driving pulley and tire pressure.

- 1. Set Tool. Open shut-off valve. Then bleed air. Refer to "Bleeding Hydraulic System", ST-7.
- 2. Run engine at idle speed or 1,000 rpm.

Make sure fluid temperature in reservoir tank rises to 60 to  $80^{\circ}$ C (140 to  $176^{\circ}$ F).

#### WARNING:

Warm up engine with shut-off valve fully opened. If engine is started with shut-off valve closed, fluid pressure in the power steering pump increases to maximum. This will raise fluid temperature abnormally.

3. Check pressure with steering wheel fully turned to left and right LC positions with engine idling at 1,000 rpm.

#### CAUTION:

Do not hold the steering wheel in a locked position for more than 15 seconds.  $\ensuremath{\mathbb{E}}\xspace$ 

#### Power steering pump maximum operating pressure: 8,140 - 8,728 kPa (83 - 89 kg/cm<sup>2</sup>, 1,180 - 1,266 psi)

- If pressure reaches maximum operating pressure, system is OK.
- If pressure increases above maximum operating pressure, check power steering pump flow control valve. Refer to ST-24.
- 4. If power steering pressure is below the maximum operating pressure, slowly close shut-off valve and check pressure again.

#### CAUTION:

#### Do not close shut-off valve for more than 15 seconds.

- If pressure increases to maximum operating pressure, gear is FA damaged. Refer to "Removal and Installation", ST-14.
- If pressure remains below maximum operating pressure, pump is damaged. Refer to "Disassembly", ST-25.
- After checking hydraulic system, remove Tool and add fluid as necessary. Then completely bleed air out of system. Refer to ST-7.

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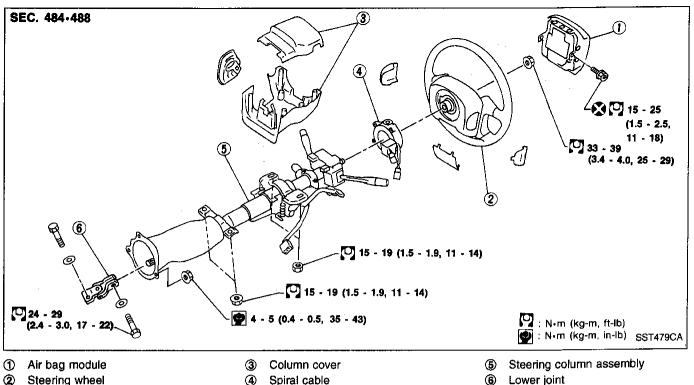
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## **STEERING WHEEL AND STEERING COLUMN**

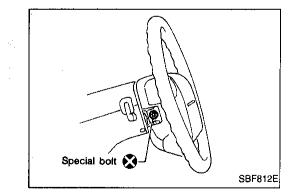
#### **Removal and Installation**



2 Steering wheel **(4)** Spiral cable

#### **CAUTION:**

- The rotation of the spiral cable (SRS "Air bag" component • part) is limited. If the steering gear must be removed, set the front wheels in the straight-ahead direction. Do not rotate the steering column while the steering gear is removed.
- Remove the steering wheel before removing the steering lower joint to avoid damaging the SRS spiral cable.



#### STEERING WHEEL

Remove air bag module and spiral cable. Refer to "Removal - Air Bag Module and Spiral Cable", "SUPPLEMENTAL RESTRAINT SYSTEM" in RS section.

## STEERING WHEEL AND STEERING COLUMN

## Removal and Installation (Cont'd)

- Align spiral cable correctly when installing steering wheel. •
- Set the front wheels in the straight-ahead position. a.
- Make sure that the spiral cable is in the neutral position. b. The neutral position is detected by turning left 2.5 revolutions from the right end position. Align the two marks ( $\chi$ ).

#### CAUTION:

The spiral cable may snap due to steering operation if the MA cable is installed in an improper position. Also, with the steering linkage disconnected, the cable may snap by turning the steering wheel beyond the limited number ĒM of turns. (The spiral cable can be turned up to 2.5 turns from

the neutral position to both the right and left.) ∠ Alignment mark MRS074A Remove steering wheel with Tool. ST27180001 (J25726-A) SST818C STEERING COLUMN Remove key interlock cable (A/T models). Steering Key interlock cable Lock plate SST329C When installing steering column, fingertighten all lower bracket Cutout portion and clamp retaining bolts; then tighten them securely. Do not apply undue stress to steering column. When attaching coupling joint, be sure tightening bolt faces cutout portion. 6

lock

Lower joint

SST800A

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## STEERING WHEEL AND STEERING COLUMN

## Slit Projection B SST491C

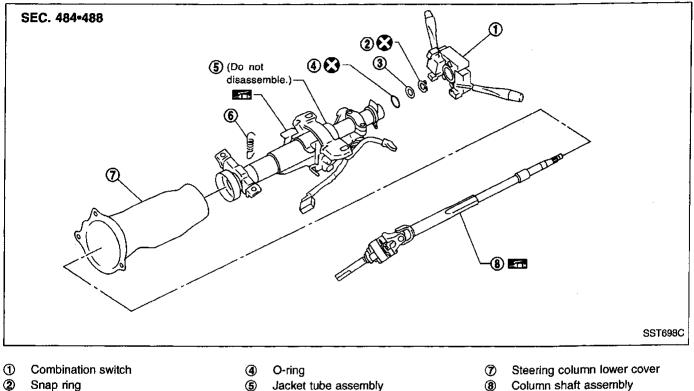
## **Removal and Installation (Cont'd)**

 Align slit of lower joint with projection on dust cover. Insert joint until surface A contacts surface B.

#### CAUTION:

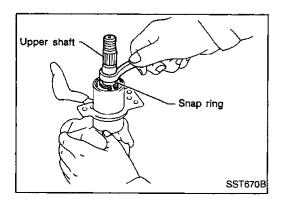
After installation, turn steering wheel to make sure it moves smoothly. Ensure the number of turns are the same from the straight forward position to left and right locks. Be sure that the steering wheel is in a neutral position when driving straight ahead.

## **Disassembly and Assembly**



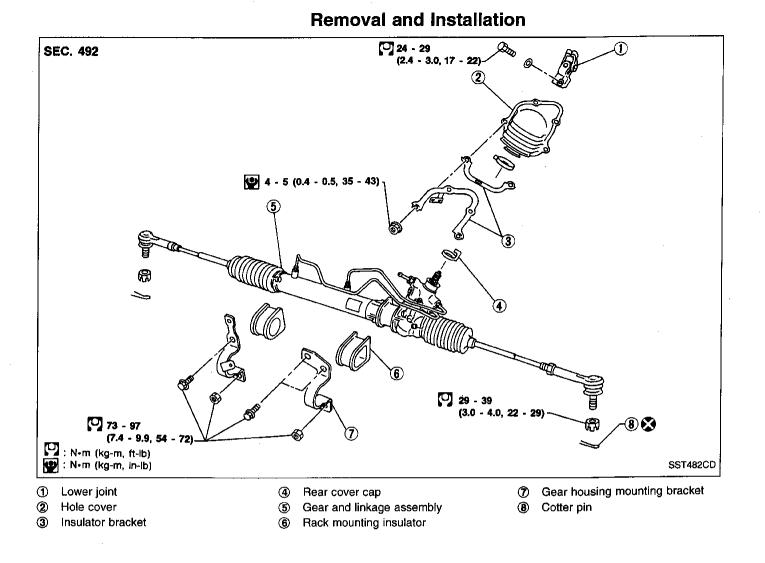
3 Washer

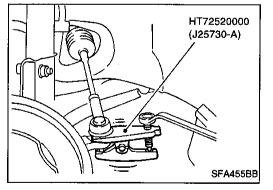
(5) Jacket tube assembly
 (6) Spring



- When disassembling and assembling, unlock steering lock with key.
- Remove combination switch.
- Ensure that rounded surface of snap ring faces toward bearing when snap ring is installed.
- Install snap ring on upper shaft with a suitable tool.

STEERING WHEEL AND STEERING COLUMN	
Disassembly and Assembly (Cont'd)	)
Self-shear type screw     Self-shear type screws with a drill or or tool.	other appropriate
SST741A	R E
b. Install new self-shear type screws and then on type screw heads.	L
	Ē
Self-shear screw SST742A	¢
Tilt mechanism	obaniem opera-
• After installing steering column, check tilt me tion.	A F
Unit: mm (in) SST582B	3
Inspection	B
<ul> <li>When steering wheel does not turn smoothly, or ing column as follows and replace damaged p</li> <li>a. Check column bearings for damage or uneven with recommended multi-purpose grease or recolumn as an assembly, if necessary.</li> </ul>	arts. Iness. Lubricate eplace steering
<ul> <li>Center of joint</li> <li>Center of joint</li> <li>Check jacket tube for deformation or breakanecessary.</li> <li>When the vehicle comes into a light collision, check column length "L":</li> </ul>	
sstr334c 525.9 - 528.1 mm (20.70 - 20.79 in) If out of the specifications, replace steering column bly.	n as an assem- யூ



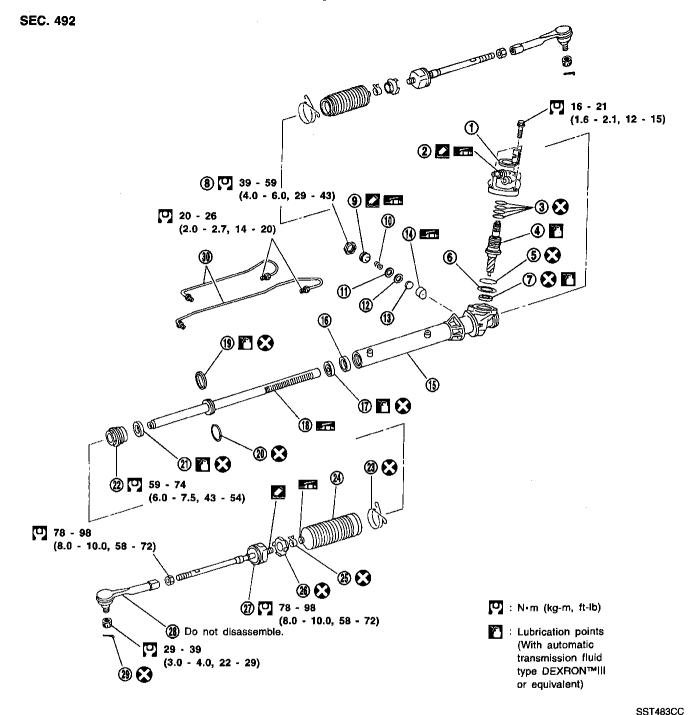


#### CAUTION:

- The rotation of the spiral cable (SRS "Air bag" component part) is limited. If the steering gear must be removed, set the front wheels in the straight-ahead direction. Do not rotate the steering column while the steering gear is removed.
- Remove the steering wheel before removing the steering lower joint to avoid damaging the SRS spiral cable.
- Detach tie-rod outer sockets from knuckle arms with Tool.
- When disconnecting steering shaft lower joint, follow the procedure shown below.
- 1) Remove carbon canister, engine mounting center member and front suspension stabilizer bar. Refer to FA section.
- 2) Remove nuts for fitting the hole cover.
- 3) Disconnect the lower joint while shifting the hole cover.

POWER STEERING GEAR AND LINKAGE	
Removal and Installation (Cont'd)	
<ul> <li>Install pipe connector.</li> <li>Observe specified tightening torque when tightening high-pressure and low-pressure pipe connectors. Excessive tight-ening will damage threads of connector or O-ring.</li> <li>Connector tightening torque:         <ul> <li>1 Low-pressure side</li> <li>27 - 39 N·m (2.8 - 4.0 kg-m, 20 - 29 ft-lb)</li> <li>High-pressure side</li> <li>15 - 25 N·m (1.5 - 2.5 kg-m, 11 - 18 ft-lb)</li> </ul> </li> <li>The O-ring in low-pressure pipe connector is larger than that in high-pressure connector. Take care to install the proper O-ring.</li> </ul>	gi Ma Em
• Initially, tighten nut on tie-rod outer socket and knuckle arm to 29 to 39 N·m (3 to 4 kg-m, 22 to 29 ft-lb). Then tighten further to align nut groove with first pin hole so that cotter pin can be installed.	LC
	EC
	FE
Arm SST824A	CL
put matching mark on pinion shaft and pinion housing to record	MT
Attach lower joint by aligning matching marks of pinion shaft	at Fa
SST819A	RA
<ul> <li>Tighten gear housing mounting bracket bolts in the order shown.</li> </ul>	BR
	RS
Temporary Secure tightening tightening	BT
SST137B	HA
	EL
	IDX

Components

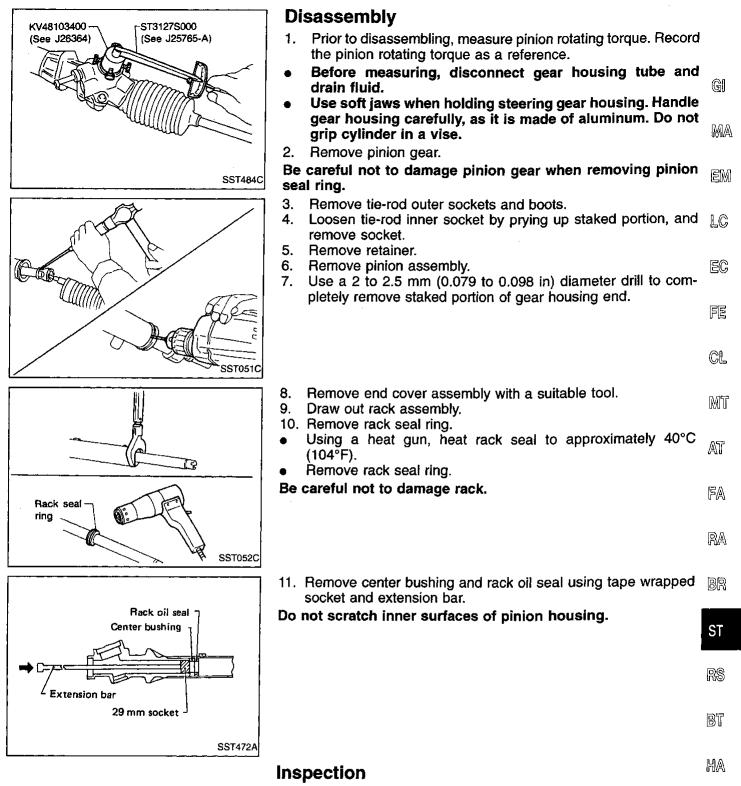


- (1) Rear cover cap
- ② Rear housing assembly
- ③ Pinion seal ring
- ④ Pinion assembly
- (5) O-ring
- 6 Shim
- ⑦ Pinion oil seal
- Lock nut
- Adjusting screw
- Optimized Spring

- ① Spring disc
- Washer
- (1) Spring seat
- (1) Retainer
- (s) Gear housing
- (i) Center bushing
- ① Rack oil seal
- Rack assembly
- (1) Rack seal ring
- O-ring

- (2) Rack oil seal
- ② End cover assembly
- Boot clamp
- ② Dust boot
- Boot band
- ② Lock plate
- ⑦ Tie-rod inner socket
- (3) Tie-rod outer socket
- Cotter pin
- ③ Gear housing tube





Thoroughly clean all parts in cleaning solvent or automatic transmission fluid type DEXRON<sup>TM</sup>III or equivalent. Blow dry with compressed air, if available.

#### BOOT

- Check condition of boot. If cracked excessively, replace it.
- Check boots for accumulation of power steering fluid.

### Inspection (Cont'd) RACK

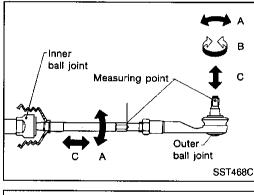
Thoroughly examine rack gear. If damaged, cracked or worn, replace it.

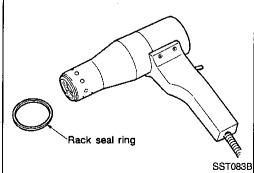
#### **PINION ASSEMBLY**

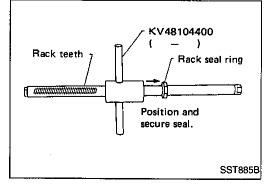
- Thoroughly examine pinion gear. If pinion gear is damaged, cracked or worn, replace it.
- Check that all bearings roll freely. Ensure that balls, rollers and races are not cracked, pitted or worn.

#### **GEAR HOUSING CYLINDER**

Check gear housing cylinder bore for scratches or other damage. Replace if necessary.







### **TIE-ROD OUTER AND INNER SOCKETS**

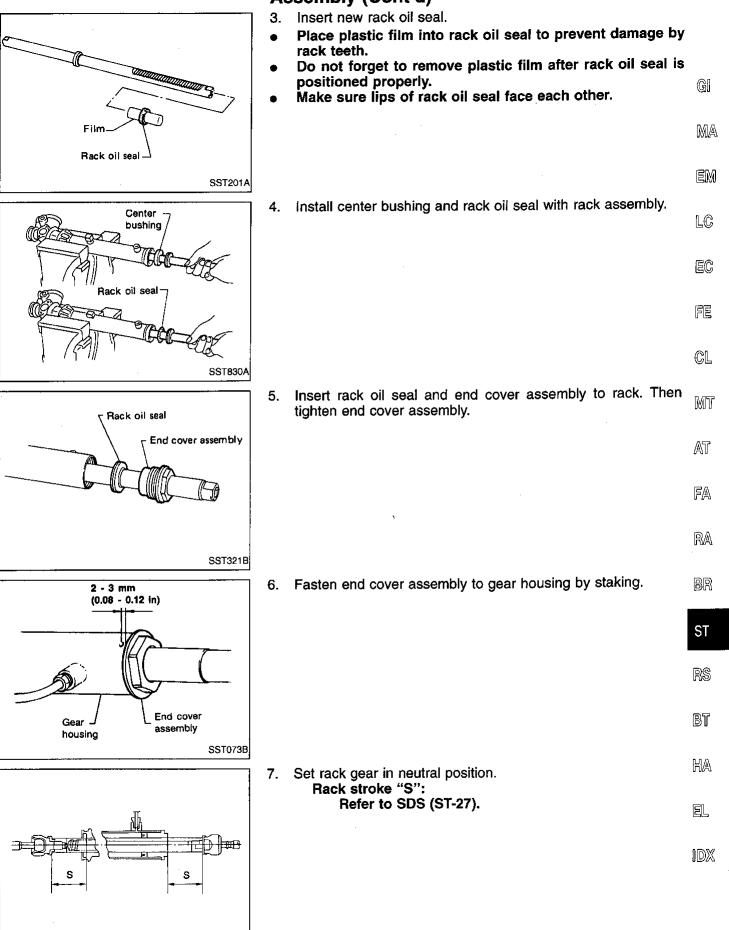
- Check ball joints for swinging force.
   Tie-rod outer and inner ball joints swinging force "A": Refer to SDS (ST-27).
  - Check ball joint for rotating torque. Tie-rod outer ball joint rotating torque "B": Refer to SDS (ST-27).
  - Check ball joints for axial end play. Tie-rod outer and inner ball joints axial end play "C": Refer to SDS (ST-27).
- Check condition of dust cover. If cracked excessively, replace outer tie-rod.

## Assembly

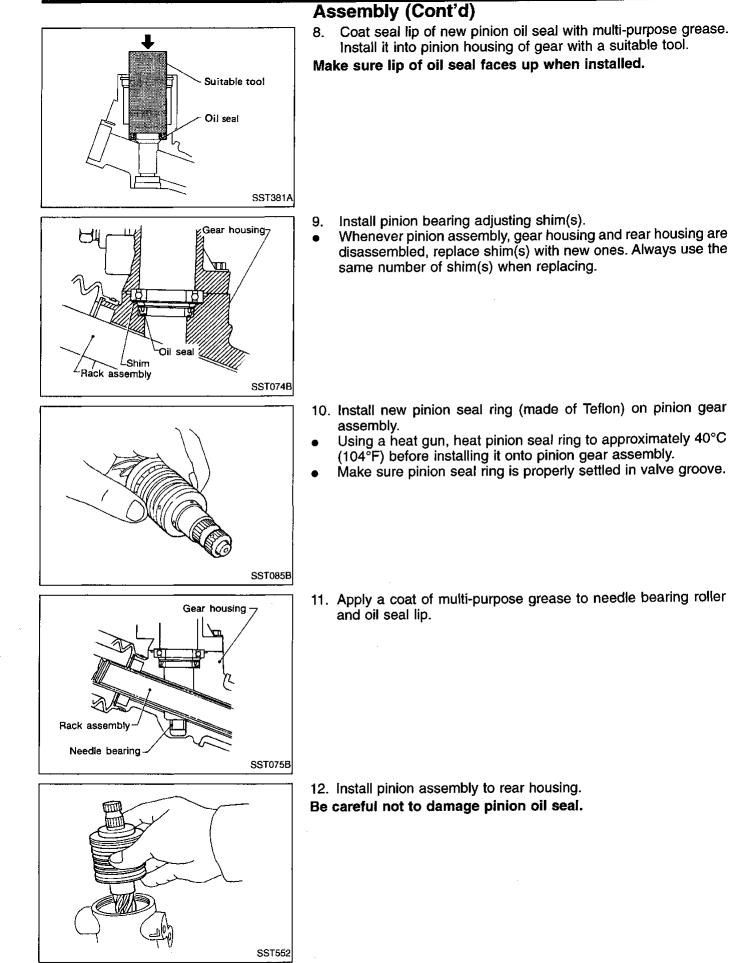
1. Using a heat gun, heat new teflon rack seal ring to approximately 40°C (104°F). Then place it onto rack.

2. Using Tool, compress rack seal ring securely on rack. Always insert Tool from the rack gear side.

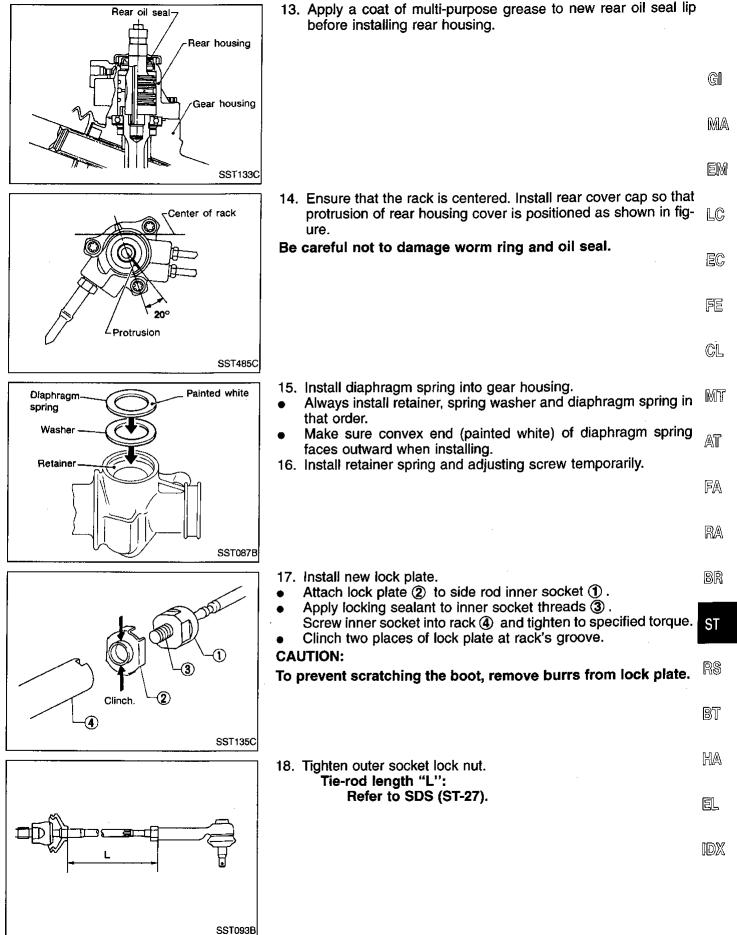
## Assembly (Cont'd)

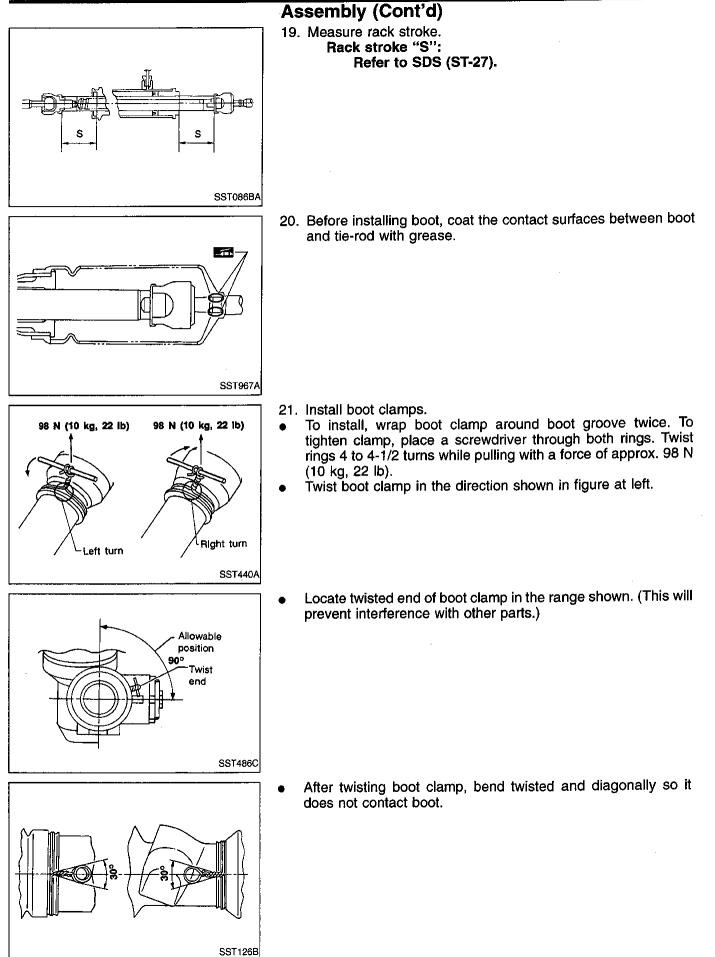


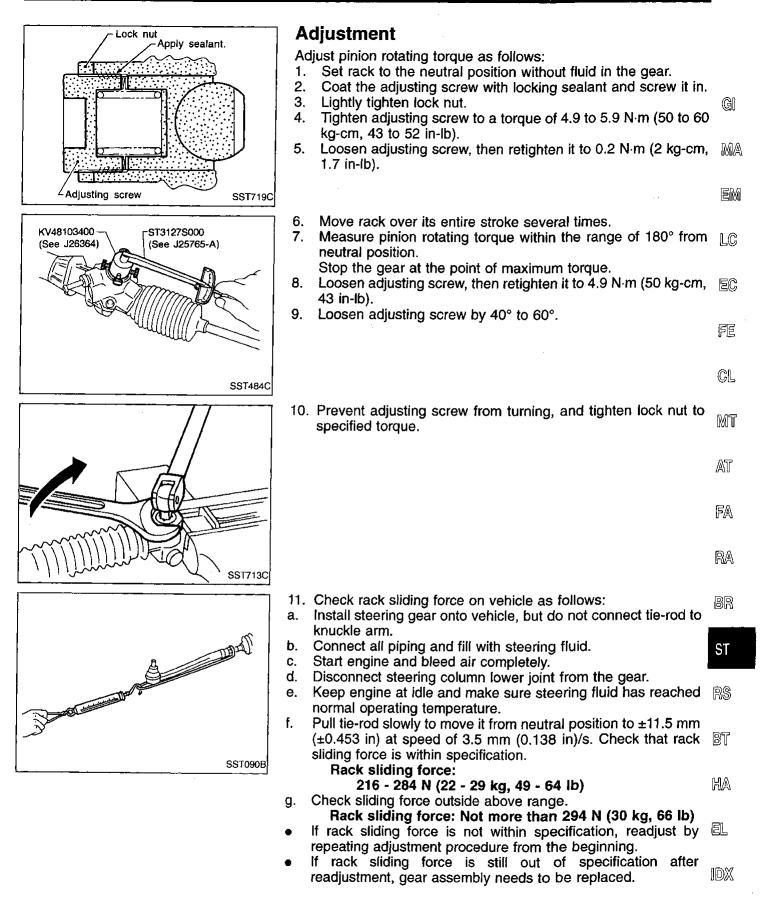
SST086BA

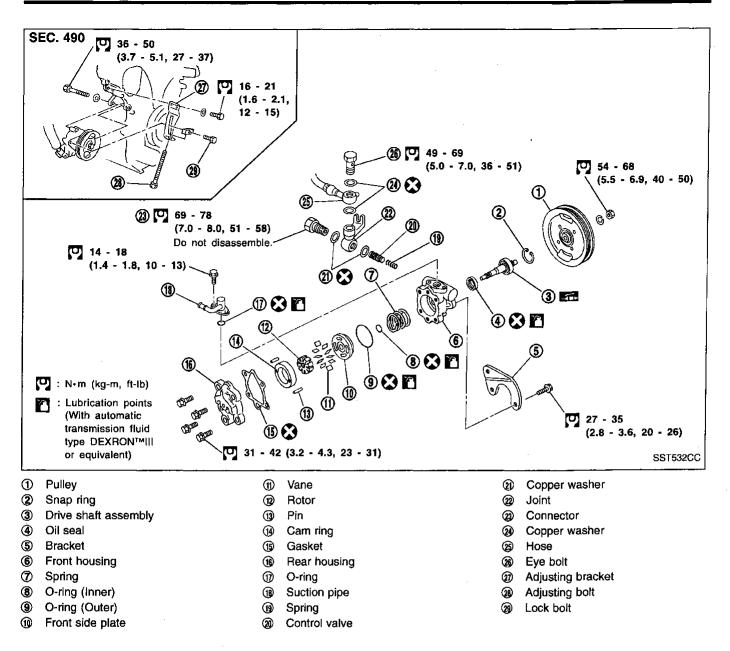


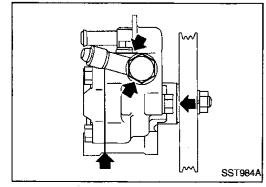
## Assembly (Cont'd)











## **Pre-disassembly Inspection**

Disassemble the power steering oil pump only if the following items are found.

- Oil leak from any point shown in the figure
- Deformed or damaged pulley
- Poor performance

## Disassembly

CAUTION:

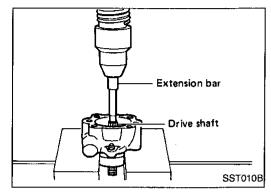
•

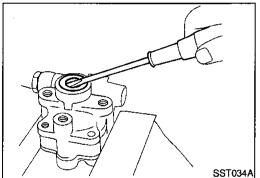
- Parts which can be disassembled are strictly limited. • Never disassemble parts other than those specified.
- Disassemble in as clean a place as possible.
- Clean your hands before disassembly. .
- Do not use rags; use nyion cloths or paper towels. .
- Follow the procedures and cautions in the Service MA • Manual.
- When disassembling and reassembling, do not let foreign . EM matter enter or contact the parts.
  - Remove snap ring, then draw drive shaft out.
- Be careful not to drop drive shaft.

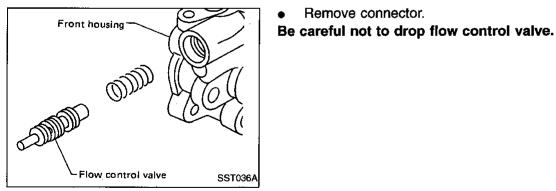
Be careful not to damage front housing.

Remove oil seal.

Remove connector.







## Inspection

Inspect each component part for wear, deformation, scratches and cracks. If damage is found, replace the part.

ID)X

GI

LC

EC

FE

CL

MT

AT

FA

RA

BR

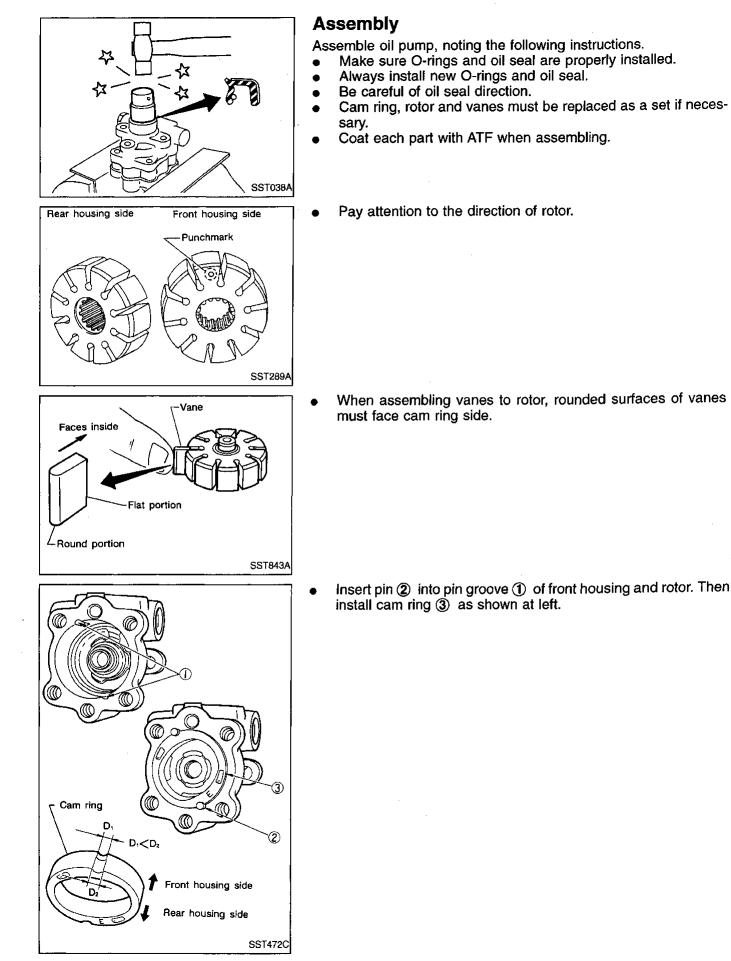
ST

RS

BT

HA

EL



## **General Specifications**

Applied model	All
Steering model	Power steering
Steering gear type	PR26AC
Steering overall gear ratio	16.7
Turns of steering wheel (Lock to lock)	2.95
Steering column type	Collapsible, tilt

GI

MA

EM

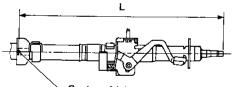
LC

### GENERAL

Steering wheel axial play mm (in)	0 (0)
Steering wheel play mm (in)	35 (1.38) or less
Movement of gear housing mm (in)	±2 (±0.08) or less

## **STEERING COLUMN**

Applied model		All
Steering column length "L"	mm (in)	525.9 - 528.1 (20.70 - 20.79)



Center of joint

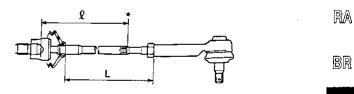
SST334C

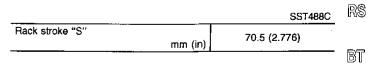
## Inspection and Adjustment STEERING GEAR AND LINKAGE

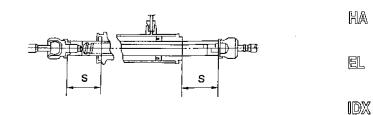
Steering gear type		PR26AC	- EC
Tie-rod outer ball joint "A"			-
Swinging force at cotter pin hole	N (kg, lb)	6.59 - 63.7 (0.672 - 6.497, 1.481 - 14.320)	FE
Rotating torque "B"		0.3 - 2.9	-
N·m (	kg-cm, in-lb)	(3 - 30, 2.6 - 26.0)	CL
Axial end play "C"	mm (in)	0.5 (0.020) or less	_
Tie-rod inner ball joint "A"			-
Swinging force*	N (kg, lb)	6.4 - 50.0 (0.65 - 5.10, 1.44 - 11.24)	MT
Axial end play "C"	mm (in)	0 (0)	- @57
Tie-rod standard length "L"	mm (in)	202.7 (7.98)	- AT
*: Measuring point It: 172 mn	n (6.77 in)]		-

FA

ST







SST086BA

## SERVICE DATA AND SPECIFICATIONS (SDS) Inspection and Adjustment (Cont'd)

## **POWER STEERING**

Rack sliding force N (kg, lb) Under normal operating oil pressure at rack speed of 3.5 mm (0.138 in)/s	
Range within $\pm 11.5$ mm ( $\pm 0.453$ in) from the neutral position	216 - 284 (22 - 29, 49 - 64)
Except above range	Not more than 294 (30, 66)
Retainer adjustment	
Adjusting screw	
Initial tightening torque N·m (kg-cm, in-lb)	4.9 - 5.9 (50 - 60, 43 - 52)
Retightening torque after loosening	0.2 (2, 1.7)
Tightening torque after gear has settled	4.9 (50, 43)
Returning angle degree	40° - 60°
Steering wheel turning force (Measured at one full turn from the neutral position) N (kg, lb)	39 (4, 9) or less
Fluid capacity (Approximate) ℓ (US qt, Imp qt)	1.1 (1-1/8, 1)
Oil pump maximum pressure kPa (kg/cm², psi)	8,140 - 8,728 (83 - 89, 1,180 - 1,266)