STEERING SYSTEM

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER" used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. The Supplemental Restraint System consists of a driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable. 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 should 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. For removal of Spiral Cable and Air Bag Module, see the RS Section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. Spiral cable and wiring harnesses (except "SEAT BELT PRE-TENSIONER") covered with yellow insulation either just before the harness connectors or for the complete harness are related to the SRS.

Precautions for Steering System

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- 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.
- For easier and proper assembly, place disassembled parts in order on a parts rack.
- 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 power steering fluid* to hydraulic parts. Petroleum jelly 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.
- *: Genuine NISSAN PSF II or equivalent. Refer to MA-13, "Fluids and Lubricants".

Special Service Tools

POWER STEERING

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NOWER STEERING the actual shape of Kent-N	Moore tools may differ from those of special service	e tools illustrated here.	(
Tool number (Kent-Moore No.) Tool name	Description		[
ST27180001 (J25726-A) Steering wheel puller	@ @ M10 x 1.25 pitch	Removing steering wheel	[
	29 mm (1.14 in) M8 x 1.25 pitch		[
HT72520000 J25730-B) Ball joint remover	a b	Removing ball joint and swivel joint a: 33 mm (1.30 in) b: 50 mm (1.97 in)	
	r PAT.P	r: R11.5 mm (0.453 in)	
	NT546		
T29020001 I24319-01) teering gear arm puller		Removing pitman arm a: 34 mm (1.34 in) b: 6.5 mm (0.256 in) c: 61.5 mm (2.421 in)	
	NT694		
V48100700 J26364) orque adapter	MIOST	Adjusting worm bearing preload	
T3127S000 see J25765-A)	NT169	Measuring turning torque	
GG91030000 25765-A) orque wrench HT62940000	1/4" Torque wrench with range of 2.9 N·m (3) (30 kg-cm, 26 in-lh)		
—) ocket adapter HT62900000 —)	NT541		
ocket adapter			
V48100301 —) trut & steering gearbox ttachment	d o o o	Steering gear installation. a: 162 mm (6.38 in) b: 110 mm (4.33 in) c: 190 mm (7.48 in)	
	a c c c c c c c c c c c c c c c c c c c	d: 9 mm (0.35 in)	

NT688

Tool number (Kent-Moore No.) Tool name	Description	
(J44372) 5 - 60 Pound pull gauge		Measuring steering wheel turning force
KV48103500 (J26357 or J26357-10) Pressure gauge	To oil pump To control valve outlet PF3/8" (female) PF3/8" (male) Shut-off valve	Measuring oil pressure
KV48102500 (—) Pressure gauge adapter	PF3/8" PF3/8" M16 x 1.5 pitch M1542	Measuring oil pressure (Use with KV48103500)
KV481009S0 (—) Oil seal drift set 1: KV48100910 (—) Drift 2: KV48100920 (J26367) Adapter 3: KV48100930 (J26367) Adapter	NT174	Installing oil seal

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

							NV	Η.	Tro	ub	les	shc	ot	ing	C	ha	rt						NGS1	⁻ 0004S01	
Reference	page		ST-7	ST-8	ST-23	ST-23	ST-23	ST-8	ST-6	ST-16	Refer to MA-16, MA-25	I	ST-14	ST-14	ST-11	ST-21	Refer to PD-41, NVH	Refer to PD-41, NVH	Refer to AX-4, NVH	Refer to AX-4 , NVH	Refer to SU-3, NVH	Refer to SU-3, NVH	Refer to SU-3, NVH	Refer to BR-5, NVH	GI MA EM
													t lock lever	<u>a</u>	steering column										LG EG
					e,	er.							ness of til	or damage	ness of st										FE
SUSPECT (Possible of	ED PARTS cause)			ue ue	nging forc	ating torqu	d play	eakage		g force		heel	or looser	ormation	or looser	seuess	 -								CL
				ulic syst	joint swi	joint rota	joint end	ar fluid le	eel play	gear turning force	oseness	ering w	stallatior	umn def	stallatior	cage loo	R SHAFT	IAL	녆		NO.		诅		MT
			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 gea	Drive belt looseness	Improper steering wheel	Improper installation or looseness of tilt lock lever	Steering column deformation	Improper installation or looseness of	Steering linkage looseness	PROPELLER	DIFFERENTIAL	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	BRAKES	AT
		Noise	X	X	X	X	X	Х	Х	Х	Х						Х	Х	Х	X	Х	X	Х	Х	TF
		Shake										Х	Х				Х		Х	Х	Х	Х	Х	Х	PD
Symptom	STEER- ING	Vibration										Х	Х	Х	Х		Х		Х	Х	Х	Х			
		Shimmy										Х	Х			Х				Х	Х	Х	Х	X	$\mathbb{A}\mathbb{X}$
		Judder														Х				Х	Х	Х	Х	X	

X: Applicable

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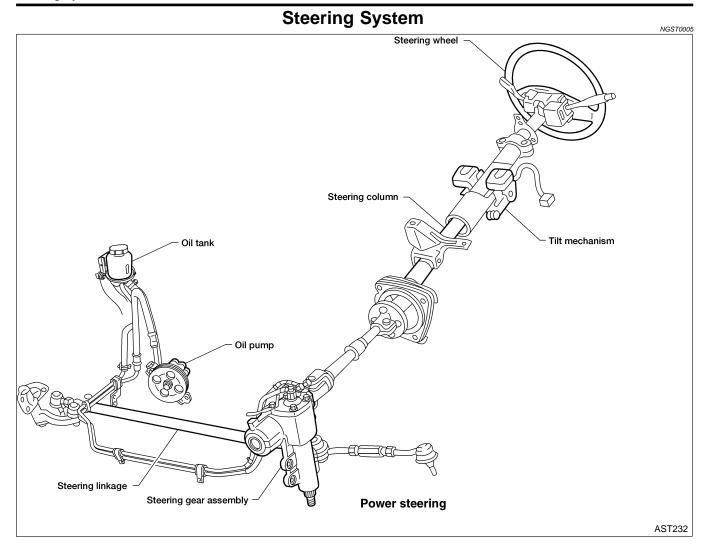
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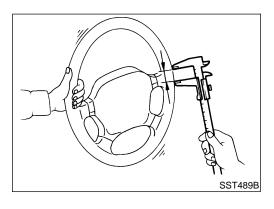
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Checking Steering Wheel Play

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 Place wheels in straight ahead position and check steering wheel play.

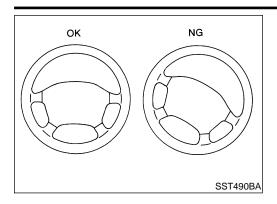
Steering wheel play:

35 mm (1.38 in) or less

- If steering wheel play is not within specification, check the following for loose or worn components.
- a) Steering column. Refer to "STEERING COLUMN", ST-12.
- b) Front suspension and axle. Refer to AX-4, "Front Axle Parts" and SU-6, "Front Suspension Parts".
- c) Steering gear. Refer to "Description", ST-15.

ON-VEHICLE SERVICE

Checking Neutral Position on Steering Wheel



Checking Neutral Position on Steering Wheel PRE-CHECKING

Make sure that wheel alignment is correct.

Wheel alignment:

Refer to SU-19, "Wheel Alignment (Unladen *1)".

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

CHECKING

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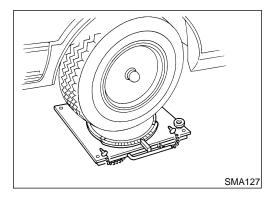
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- 1. Check that the steering wheel is in the neutral position when driving straight ahead.
- 2. If it is not in the neutral position, remove the steering wheel and reinstall it correctly.
- 3. If the neutral position is still not correct:
- a. Loosen tie-rod lock nuts.
- b. Move tie-rods, in opposite direction, the same amount on both left and right sides.

This will compensate for error in the neutral position.



Checking Front Wheel Turning Angle

NGST0008

 Rotate steering wheel fully right, then left; measure turning angle.

Turning angle of full turns:

Refer to *SU-11*, "Front Wheel Turning Angle".

 If it is not within specification, check stopper bolt adjustment. Refer to SU-11, "Front Wheel Turning Angle".

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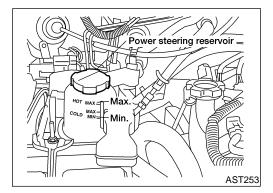
Checking and Adjusting Drive Belts

NGST0009

Refer to *MA-16*, "Checking Drive Belts" (KA24DE) or *MA-25*, "Checking Drive Belts" (VG33E).

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Checking Fluid Level

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Check fluid level with engine off.

Check fluid level referring to the scale on the reservoir tank. Use "HOT" range for fluid temperatures of 50 to 80°C (122 to 176°F). Use "COLD" range for fluid temperatures of 0 to 30°C (32)

to 86°F).

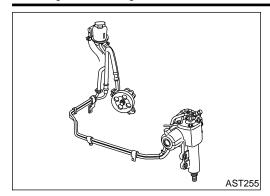
CAUTION:

Do not overfill.

 Recommended fluid is Genuine NISSAN PSF II or equivalent. Refer to MA-13, "Fluids and Lubricants".

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Checking Fluid Leakage

Check lines for improper attachment, leaks, cracks, damage, chafing and deterioration.

- 1. Run engine between idle speed and 1,000 rpm.
- Make sure temperature of fluid in reservoir tank rises to 60 to 80°C (140 to 176°F).
- Turn steering wheel right-to-left several times.
- 3. Hold steering wheel at each "lock" position for 5 seconds and carefully check for fluid leakage.

CAUTION:

Do not hold steering wheel at lock position for more than 15 seconds.

4. If fluid leakage from any line is noticed, loosen flare nut and then retighten.

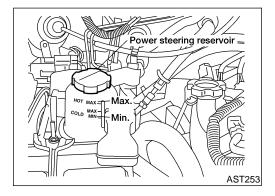
Do not overtighten connector as this can damage O-ring, washer and connector.

- If fluid leakage from power steering pump is noticed, check power steering pump. Refer to "Pre-disassembly Inspection", ST-18.
- If fluid leakage from power steering gear is noticed, check power steering gear. Refer to "Inspection and Adjustment", ST-16.

Bleeding Hydraulic System

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1. Raise front end of vehicle until wheels are clear of the ground.



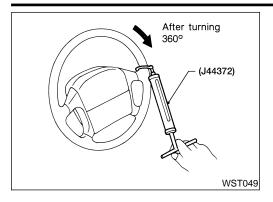
- Add fluid to reservoir tank to specified level. Quickly turn steering wheel fully to right and left and lightly touch steering stoppers.
 - Repeat steering wheel operation until fluid level no longer decreases.
- 3. Start engine.
 - Repeat step 2 above.
- Incomplete air bleeding will cause the following to occur:
- a) Air bubbles in reservoir tank
- b) Clicking noise in power steering pump
- c) Excessive buzzing in power steering pump

When this happens, bleed air again.

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

ON-VEHICLE SERVICE

Checking Steering Wheel Turning Force



Checking Steering Wheel Turning Force

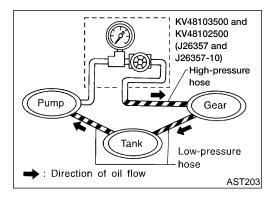
- Park vehicle on a level, dry surface and set parking brake.
- 2. Start engine and run at idle speed or 1,000 rpm.
- Bring power steering fluid up to adequate operating temperature. [Make sure temperature of fluid is approximately 60 to 80°C (140 to 176°F).]

Tires need to be inflated to normal pressure.

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

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

- If steering wheel turning force is out of specification, check the following:
- a. Hydraulic system. Refer to "Checking Hydraulic System", ST-9.
- b. Steering column. Refer to "Inspection", ST-14.
- c. Front suspension and axle. Refer to **AX-4**, "Front Axle Parts" and **SU-6**, "Front Suspension Parts".
- d. Steering gear turning torque. Refer to "TURNING TORQUE MEASUREMENT", ST-16.



Checking Hydraulic System

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

 Set Tool. Open shut-off valve, then bleed air. Refer to "Bleeding Hydraulic System", ST-8.

2. Run engine at idle speed or 1,000 rpm.

 Make sure fluid temperature in reservoir tank rises to 60 to 80°C (140 to 176°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 positions while idling at 1,000 rpm.

CAUTION:

Do not hold the steering wheel at full lock position for more than 15 seconds.

Power steering pump maximum operating pressure: 7,551 - 8,336 kPa (77 - 85 kg/cm², 1,095 - 1,209 psi) at idling

- 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 "Components", ST-18.
- 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 damaged. Refer to "Removal and Installation", ST-15.
- If pressure remains below maximum operating pressure, pump



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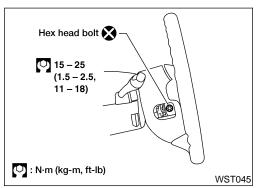
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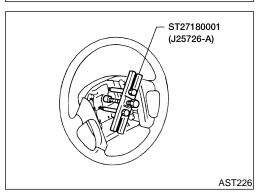
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- is damaged. Refer to "Components", ST-18.
- 5. After checking hydraulic system, remove Tool and add fluid as necessary. Completely bleed air out of system. Refer to "Bleeding Hydraulic System", ST-8.

Components NGST0015 SEC. 253 • 484 • 487 • 488 • 680 29 - 39 (3.0 - 4.0, 22 - 29) Steering wheel air bag module Column cover Refer to BT section Spiral cable Refer to RS section Hex head bolt 15 - 25 (1.5 - 2.5, 11 - 18) Tilt mechanism Lower panel driver side Refer to BT section 13 - 16 24 - 29 (1.3 - 1.6, 9 - 12)(2.4 - 3.0, 17 - 22) = 13 - 16 (1.3 - 1.6, 9 - 12) 13 - 16 (1.3 - 1.6, 9 - 12) Knee protector : N·m (kg-m, ft-lb) WST044





Removal and Installation STEERING WHEEL

 Remove air bag module and spiral cable. Refer to RS-15, "Driver Air Bag Module and Spiral Cable".

2. Disconnect horn connector and remove steering wheel nut.

3. Remove steering wheel using Tool.

For installation, refer to RS-15, "Driver Air Bag Module and Spiral Cable".

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STEERING COLUMN

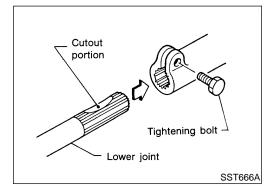
Removal

CAUTION:

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- 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. Refer to "STEERING WHEEL", ST-11.
- Remove steering wheel. Refer to "STEERING WHEEL", ST-11.
- 2. Remove steering column covers.
- Remove instrument lower panel. Disconnect security lamp indicator.
- Disconnect combination switch electrical connectors and air 4. bag harness connector.
- Remove knee protector. 5.
- Disconnect ignition switch and shift lock solenoid connectors. 6.
- 7. Disconnect shift cable.
- 8. Remove bolt from lower joint.
- Remove two steering column bolts and remove steering column.



Installation

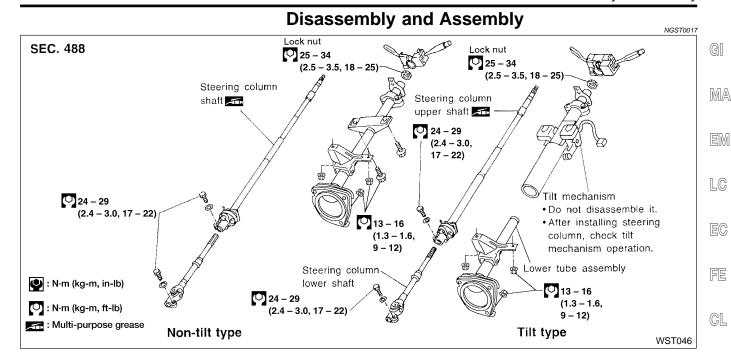
- When installing steering column, finger-tighten all lower bracket and clamp retaining bolts; then tighten them securely. Make sure that undue stress is not applied to steering column.
- When fitting steering lower joint, be sure tightening bolt faces cutout portion.
- Align spiral cable correctly when installing steering wheel. Refer to RS-15, "REMOVAL AND INSTALLATION".

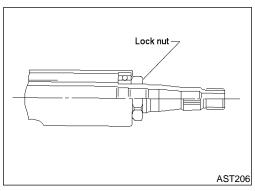
CAUTION:

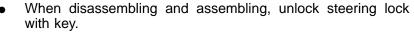
After installation, turn steering wheel to make sure it moves smoothly. Ensure the number of turns from the straight forward position to left and right locks are the same. Be sure that the steering wheel is in a neutral position when driving straight ahead.

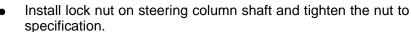
STEERING WHEEL AND STEERING COLUMN

Disassembly and Assembly

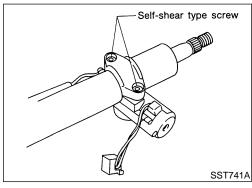






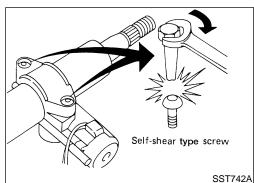


(2.5 - 34 N·m (2.5 - 3.5 kg-m, 18 - 25 ft. lb)



- Steering lock
- Break self-shear type screws using a drill or other appropriate

tool.



Install self-shear type screws, then tighten until heads break off.

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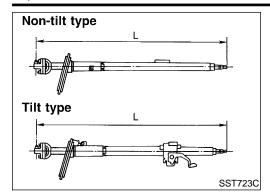
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STEERING WHEEL AND STEERING COLUMN

Inspection

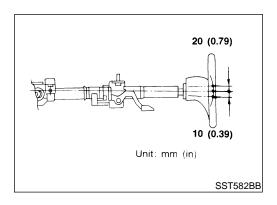


Inspection

- If steering wheel does not turn smoothly, check the steering column as follows and replace damaged parts.
- Check column bearings for damage and unevenness. Lubricate with recommended multi-purpose grease or replace steering column as an assembly, if necessary.
- Check jacket tube for deformation and breakage. Replace if necessary.
- If the vehicle is involved in a light collision, check dimension "L". If it is not within specification, replace steering column as an assembly.

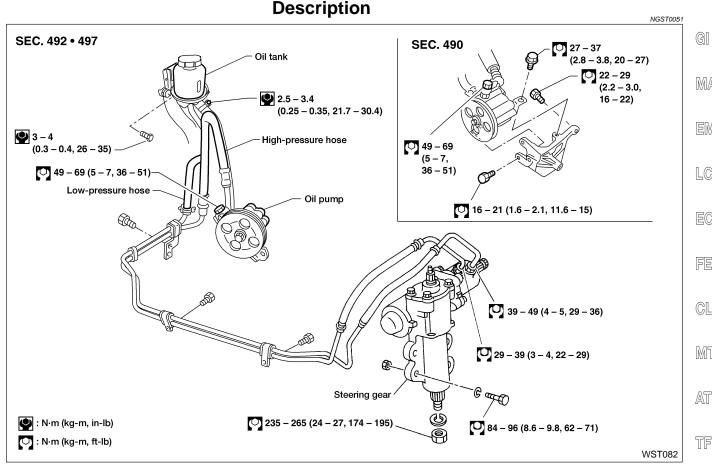
Column length "L":

863.1 - 864.7 mm (33.980 - 34.043 in)



TILT MECHANISM

After installing steering column, check tilt mechanism operation.



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 nylon cloths or paper towels.
- Follow the procedures and cautions indicated in the Service Manual.

Removal and Installation

Before removal, clean gear housing and oil pump exteriors using a steam cleaner, then dry with compressed air.



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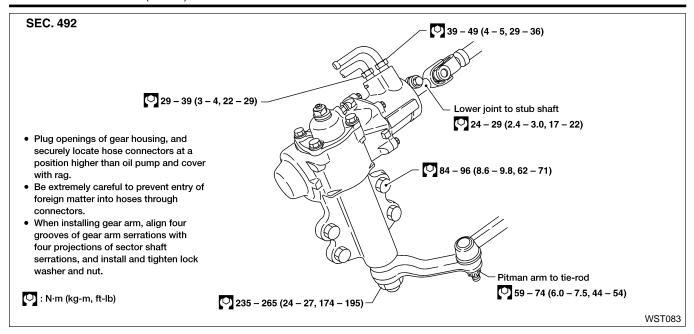
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POWER STEERING GEAR (MODEL: D600)

Removal and Installation (Cont'd)



Inspection and Adjustment

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Before replacing power steering, make sure there is no oil leakage around sealing portion and check steering turning torque as follows:

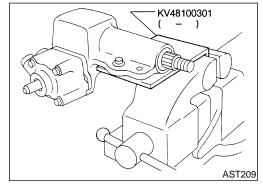
Check sealing portion.

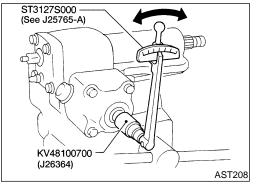
- Sector shaft cover O-ring
- Sector shaft U-packing
- Sector shaft oil seal
- Rear housing O-ring
- Gear housing O-ring

TURNING TORQUE MEASUREMENT

NGST0053S01

- Measure turning torque at 360° position.
- a. Install steering gear on Tool.





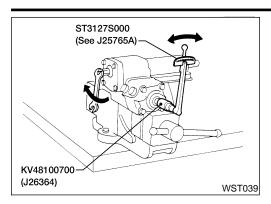
- b. Turn stub shaft all the way to right and left several times.
- c. Measure turning torque at 360° position from straight-ahead position with Tools.

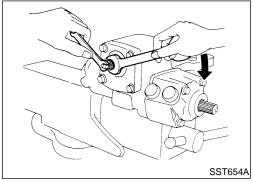
Turning torque at 360°:

0.20 - 0.90 N·m (2.0 - 9.2 kg-cm, 1.8 - 8.0 in-lb)

POWER STEERING GEAR (MODEL: D600)

Inspection and Adjustment (Cont'd)





d. Measure turning torque at straight-ahead position.

Straight-ahead position is a position where stub shaft is turned 1.93 turns (two full turns and 50°) from lock position.

Turning torque at straight-ahead position:

0.45 - 0.80 N·m (4.6 - 8.2 kg-cm, 4.0 - 7.1 in-lb)

higher than turning torque at 360°

Maximum turning torque:

1.7 N·m (17.3 kg-cm, 15.0 in-lb)

If turning torque is not within specifications, adjust by turning sector shaft adjusting screw.

2. Tighten adjusting screw lock nut with tools.

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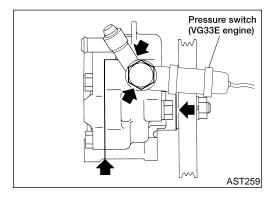
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Components NGST0036 SEC. 490 Connector bolt 49 - 69 (5.0 - 7.0, 36 - 51) 54 - 68 (5.5 - 6.9, 40 - 50) Copper washer 🎇 🌇 0 Pulley Pressure switch Connector 69 - 78 (7.0 - 8.0, 51 - 58) (KA24DE engine) Do not disassemble. 1.7 - 2.3 (0.17 - 0.23,15 - 20) O-ring 🔀 🎦 Control valve Spring Vane Front housing Rotor Snap ring (M) Drive shaft Gasket 💢 Oil seal 💢 🎦 O-ring X Spring ¹2 14 - 18 (Billion (1.4 - 1.8, 10 - 13) O-ring (Inner) O-ring (Outer) 🔀 🖺 Front side plate Suction pipe The state of the s LCam ring : N·m (kg-m, in-lb) Rear housing : N·m (kg-m, ft-lb) 14 - 18 (1.4 - 1.8, 10 - 13) : Genuine NISSAN PSF II WST042



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

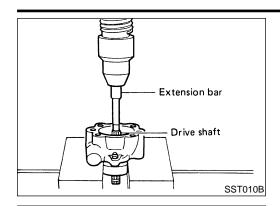
NGST0038

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 nylon cloths or paper towels.
- When disassembling and reassembling, do not let foreign matter enter or contact the parts.

POWER STEERING OIL PUMP

Disassembly (Cont'd)



Front housing

Flow control valve

- Remove snap ring, then draw drive shaft out.
- Be careful not to drop drive shaft.



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- EM
- LG

- Remove oil seal.

 Be careful not to
- Be careful not to damage front housing.

Be careful not to drop control valve.





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Inspection

SST034A

SST036A

- If pulley is cracked or deformed, replace it.
- If fluid leak is found around the pulley shaft, replace the oil seal.

Remove connector and flow control valve with spring.





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Assembly

Assemble oil pump, noting the following instructions.

- Make sure O-rings and oil seal are properly installed.
- Always install new O-rings and oil seal.
- Be careful of oil seal direction.
- Cam ring, rotor and vanes must be replaced as a set if necessary.
- When assembling, coat each part with Genuine NISSAN PSF II or equivalent.



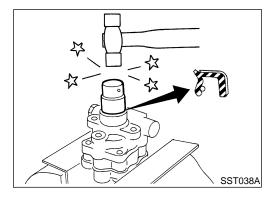
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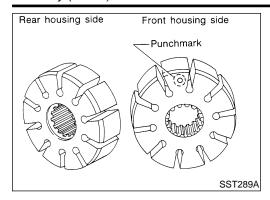




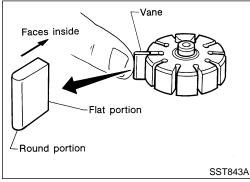
NGST0040



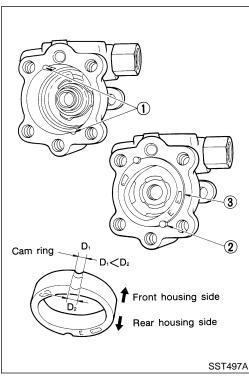




Pay attention to the direction of rotor.



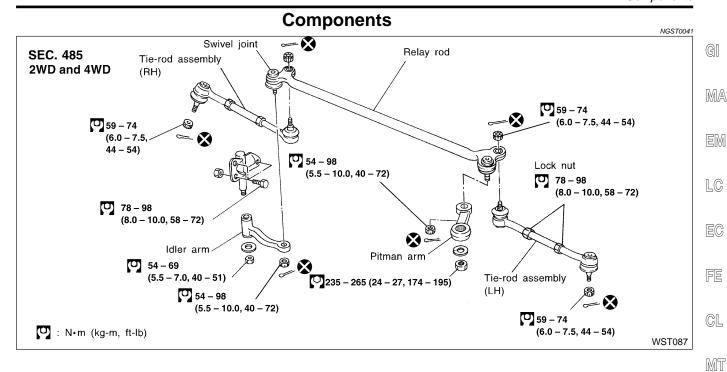
 When assembling vanes to rotor, rounded surfaces of vanes must face cam ring side.

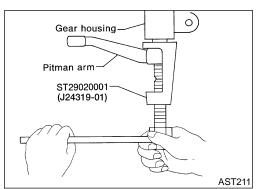


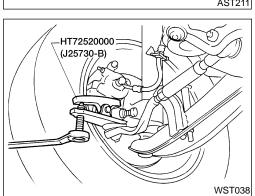
• Insert pin 2 into pin groove 1 of front housing and front side plate. Then install cam ring 3 as shown at left.

Cam ring:

 D_1 is less than D_2







Removal and Installation

Remove pitman arm with Tool.

Remove tie-rod from knuckle arm with Tool.

NGST0042

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2WD and 4WD 93.5° View X 93.5 Inner ball stud Front side Outer ball stud View X AST250

Disassembly and Assembly IDLER ARM ASSEMBLY

NGST0043

NGST0043S01

- Apply coat of multi-purpose grease to bushing.
- Press bushing into idler body, and insert shaft of idler bracket carefully until bushing protrudes.

CROSS ROD AND TIE-ROD

- 1. When tie-rod ball joints and tie-rod bar are separated, adjust tie-rod length correctly.
 - Adjustment should be done between ball stud centers.
- Lock tie-rod clamp nut so that ball joint on outer ball stud is as follows with respect to that on inner ball stud.

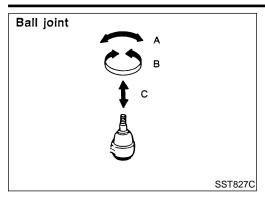
L: Standard

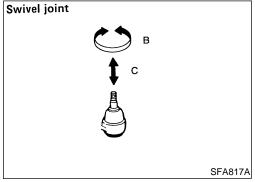
2WD KA24DE: 343.9 mm (13.54 in)

2WD and 4WD VG33E: 297.6 mm (11.72 in)

CAUTION:

Make sure that tie-rod bars are screwed into tie-rod tube more than 35 mm (1.38 in) 2WD KA24DE, 22 mm (0.87 in) 2WD and 4WD VG33E.





Inspection

BALL JOINT AND SWIVEL JOINT

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 Check joints for play. If ball or swivel stud is worn and play in axial direction is excessive, or joint is hard to swing, replace as a complete unit.

Swinging force (Measure point: Cotter pin hole) "A":
Ball joint

15.7 - 147.1 N (1.6 - 15.0 kg, 3.5 - 33.1 lb)

Rotating torque "B":

Ball joint

0.5 - 4.9 N·m (5 - 50 kg-cm, 4.3 - 43.4 in-lb)

Swivel joint

1.0 - 5.9 N·m (10 - 60 kg-cm, 8.7 - 52.1 in-lb)

Axial end play "C":

Ball joint and swivel joint

0 mm (0 in)

Check condition of dust cover. If it is cracked excessively, replace as a complete unit.

CAUTION:

Be careful not to apply grease or oil to taper of joint.

IDLER ARM ASSEMBLY

NGST0044S02

- Check rubber bushing of idler arm for breakage, wear or play, and if necessary replace.
- Lubricate idler arm assembly with multi-purpose grease, if necessary.

CROSS ROD AND TIE-ROD

NGST0044S03

Check tie-rod and cross rod for breakage, bends and cracks, and replace with a new one if necessary.

FIXING LOCATION

NGST0044S04

- Check fixing location (nuts and cotter pins) for looseness, play or breakage.
- When looseness or play is found, check for wear on tapered portion of joints, gear arm or idler arm.
- When reassembling each joint, use new cotter pins.

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SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications

General Specifications Steering column type (Collapsible) Power steering 2WD, 4WD Steering gear type D600 Turns of steering wheel on the vehicle (Lock-to-lock) 2WD: 3.7, 4WD: 3.4 Steering gear ratio

Steering Wheel

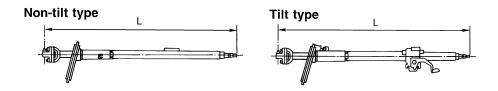
Unit: mm (in)

Steering wheel axial play	0 (0)
Steering wheel play	35 (1.38) or less

Steering Column

Unit: mm (in)

Dimension "L"	863.1 - 864.7 (33.980 - 34.043)



SST841C

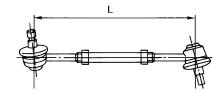
Power Steering Gear							
Steering wheel turning force (at 360 steering wheel)	of from neutral position and circumference of	39 N (4 kg, 9 lb) or less					
Oil pump relief pressure		7,551 - 8,336 kPa (77 - 85 kg/cm², 1,095 - 1,209 psi) at idling					
Fluid capacity		Approximately 1,000 - 1,100 mℓ (35.2 - 38.7 lmp fl oz					
Normal operating temperature		60 - 80 °C (140 - 176 °F)					
	360° position from straight-ahead position	0.20 - 0.90 N·m (2.0 - 9.2 kg-cm, 1.8 - 8.0 in-lb)					
Steering gear turning torque	Straight-ahead position (As compared with steering wheel turned 360°)	0.45 - 0.80 N·m (4.6 - 8.2 kg-cm, 4.0 - 7.1 in-lb) higher					
	Maximum turning torque	1.7 N·m (17.3 kg-cm, 15.0 in-lb)					
Backlash at pitman arm top end (in	straight-ahead position)	0 - 0.1 mm (0 - 0.004 in)					
End play (at sector shaft end in neu	tral position)	0.1 mm (0.004 in) or less					

SERVICE DATA AND SPECIFICATIONS (SDS)

Steering Linkage

	Steering Linkage	NG NG	ST0050				
Applied model		2WD, 4WD					
Dalan and arrival lates	Rotating torque	1.0 - 5.9 N·m (10 - 60 kg-cm, 8.7 - 52.1 in-lb)					
Relay-rod swivel joint	Axial end play	0 mm (0 in)					
Tie-rod & relay-rod ball joint	Swinging force at cotter pin hole	15.7 - 147.1 N (1.6 - 15.0 kg, 3.5 - 33.1 lb)					
	Rotating torque	0.5 - 4.9 N·m (5 - 50 kg-cm, 4.3 - 43.4 in-lb)					
	Axial end play	0 mm (0 in)					
T	2WD KA24DE	297.6 mm (11.72 in)	LC				
Tie-rod standard length (L)	2WD and 4WD VG33E	343.9 mm (13.54 in)					
	OWD and AWD		 E0				

2WD and 4WD



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