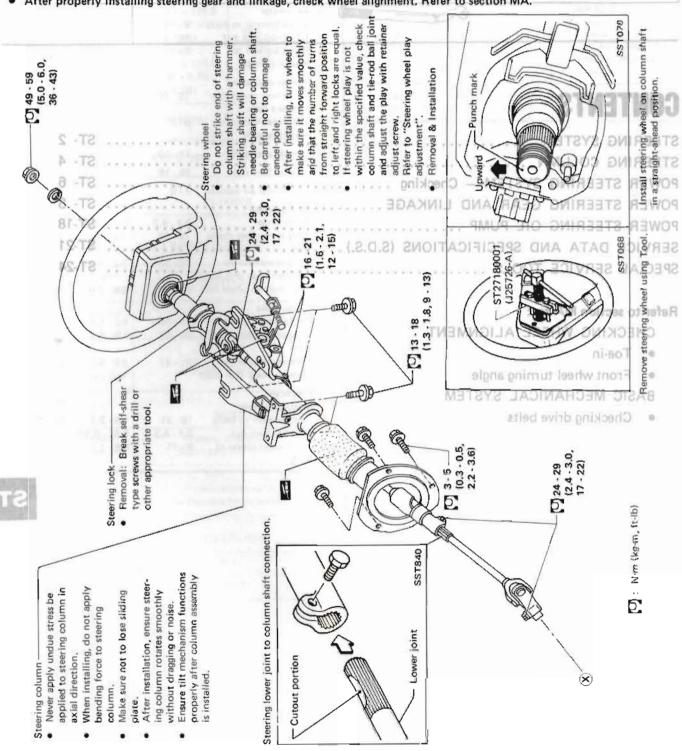
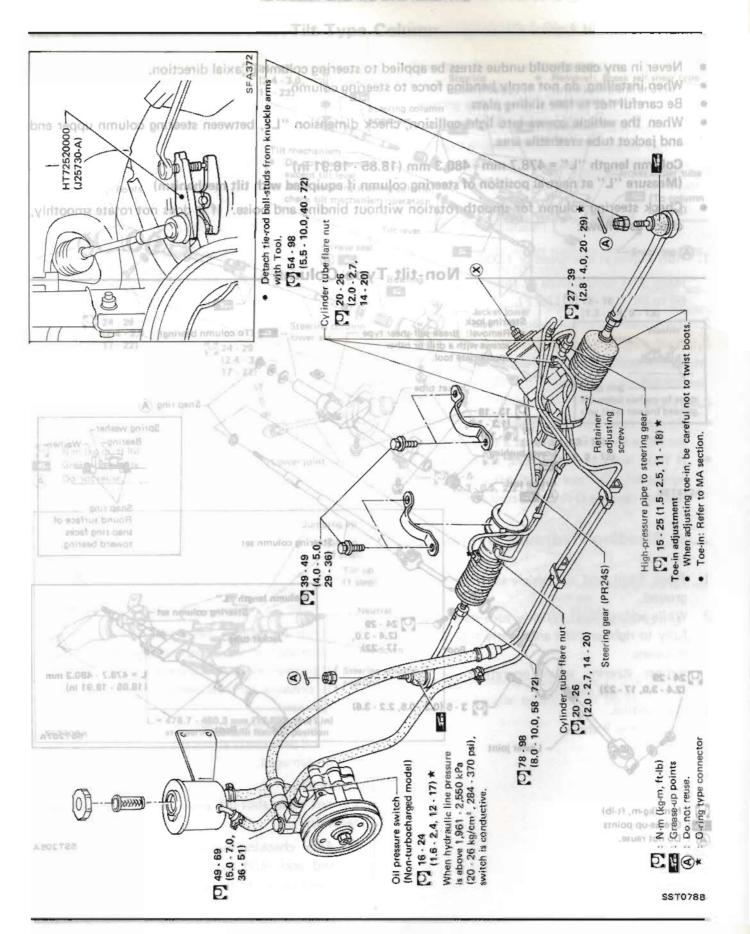
STEERING SYSTEM .neeg set and bleed air from line after filling It CONTENTS STEERING SYSTEM STEERING COLUMN...... POWER STEERING SYSTEM - Checking POWER STEERING GEAR AND LINKAGE POWER STEERING OIL PUMP ST-18 SERVICE DATA AND SPECIFICATIONS (S.D.S.) SPECIAL SERVICE TOOLS ... ST-24 Refer to section MA for: CHECKING WHEEL ALIGNMENT Toe-in Front wheel turning angle BASIC MECHANICAL SYSTEM Checking drive belts

STEERING SYSTEM

- Fully turn steering wheel to the right and disconnect whole hydraulic line to steering gear assembly, then remove steering gear.
- Whenever disconnecting hydraulic lines, cover openings to prevent foreign material from entering.
- Be careful not to damage hydraulic line connection.
- Do not reuse O-ring in hydraulic system.
- When connecting hydraulic line, apply a coat of automatic transmission fluid "Dexron Type" to O-rings.
- If disconnecting hydraulic line, always perform leak test and bleed air from line after filling it with oil.
- · After properly installing steering gear and linkage, check wheel alignment, Refer to section MA.



STEERING SYSTEM



STEERING COLUMN

it and disconnect whole hydraulic line tor

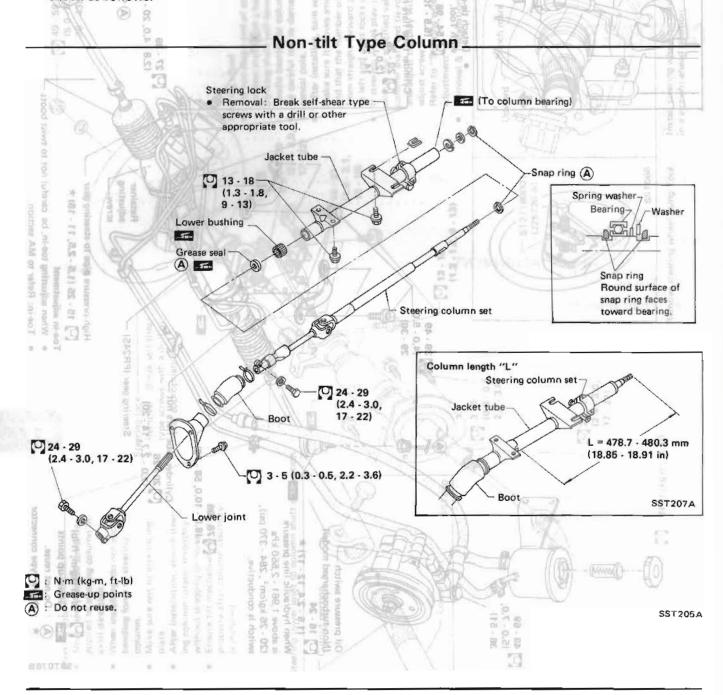
- Never in any case should undue stress be applied to steering column in axial direction.
- When installing, do not apply bending force to steering column.
- Be careful not to lose sliding plate.

. Fully turn steering wheel to the si

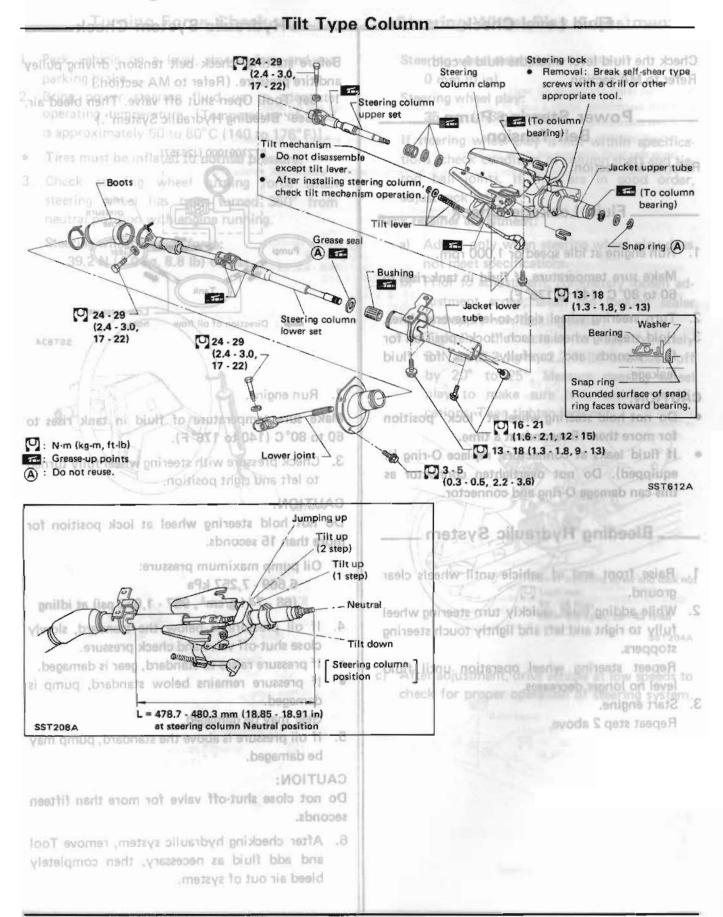
 When the vehicle comes into light collision, check dimension "L", between steering column upper end and jacket tube crashable area.

Column length "L" = 478.7 mm - 480.3 mm (18.85 - 18.91 in)
(Measure "L" at neutral position of steering column if equipped with tilt mechanism)

 Check steering column for smooth rotation without binding and noise. If it does not rotate smoothly, check as follows:



STEERING COLUMN



POWER STEERING SYSTEM —Checking

Check the fluid level when the fluid is cold. Refer to MA section.

Be carefully/foth/97/998 sliding plate.

Power Steering Pump and lacket to Belt Tension

Refer to MA section.

nmules of)

Uprivilled:

Fluid Leakage Check

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

CAUTION: Debnuck

- Do not hold steering wheel at "lock" position for more than 15 seconds at a time.
- If fluid leaks at connectors, replace O-ring (if equipped). Do not overtighten connector as this can damage O-ring and connector.

Bleeding Hydraulic System.

- 1. Raise front end of vehicle until wheels clear ground.
- 2. While adding fluid, quickly turn steering wheel fully to right and left and lightly touch steering stoppers.

Repeat steering wheel operation until fluid level no longer decreases. 2 0 03 05 22

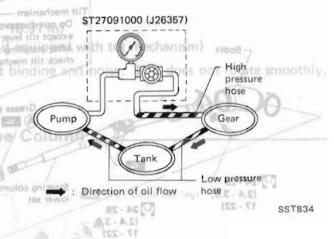
Start engine. Repeat step 2 above.

New Tagen, 19-86

Fluid Level Check _____ Hydraulic System Check.

Before starting, check belt tension, driving pulley and tire pressure. (Refer to MA section.)

1. Set Tool. Open shut off valve. Then bleed air. (See "Bleeding Hydraulic System".)



2. Run engine.

Make sure temperature of fluid in tank rises to 60 to 80°C (140 to 176°F). Idi-II, m-pd) m-V : C

3. Check pressure with steering wheel fully turned to left and right position.

CAUTION:

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

Oil pump maximum pressure:

6,669 - 7,257 kPa

(68 - 74 kg/cm2, 967 - 1,052 psi) at idling

- 4. If oil pressure is below the standard, slowly close shut-off valve and check pressure.
- If pressure raises to standard, gear is damaged.
- If pressure remains below standard, pump is damaged. Gear may be damaged.

5. If oil pressure is above the standard, pump may be damaged.

CAUTION:

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

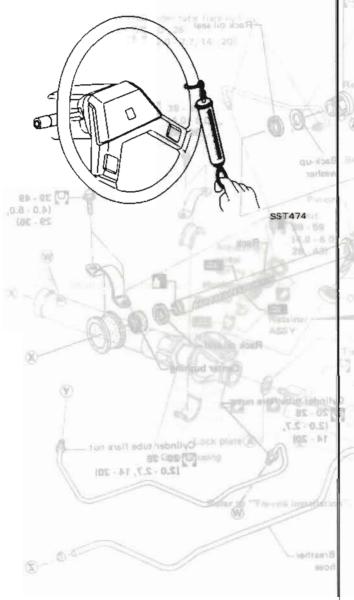
After checking hydraulic system, remove Tool and add fluid as necessary, then completely bleed air out of system.

POWER STEERING SYSTEM —Checking

EN-HE B

- 1. Park vehicle on a level, dry surface and set parking brake.
- 2. Bring power steering fluid up to adequate operating temperature. [Temperature of fluid is approximately 60 to 80°C (140 to 176°F)].
- Tires must be inflated to normal pressure.
- 3. Check steering wheel turning force when steering wheel has been turned 360° from neutral position with engine running,

Steering wheel turning force: 39.2 N (4.0 kg, 8.8 lb) or less



Turning Force Check _____ Steering Wheel Play Adjustment __

adjustments,

C Do not reuse O-r and

Steering wheel axial play:

0 mm (0 in)

Steering wheel play:

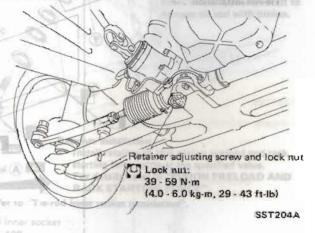
. When assembling, app 35 mm (1.38 in) or less

If steering wheel play is not within specifications, check condition of column shaft and tierod ball joints. If they are in good order, adjust rack retainer.

Rack retainer adjustment:

- a) Adjust only when steering wheel play does not meet specifications.
- b) Prior to adjustment, completely loosen adjustment screw, clean old locking sealer and apply new locking sealer. Tighten the screw to approximately

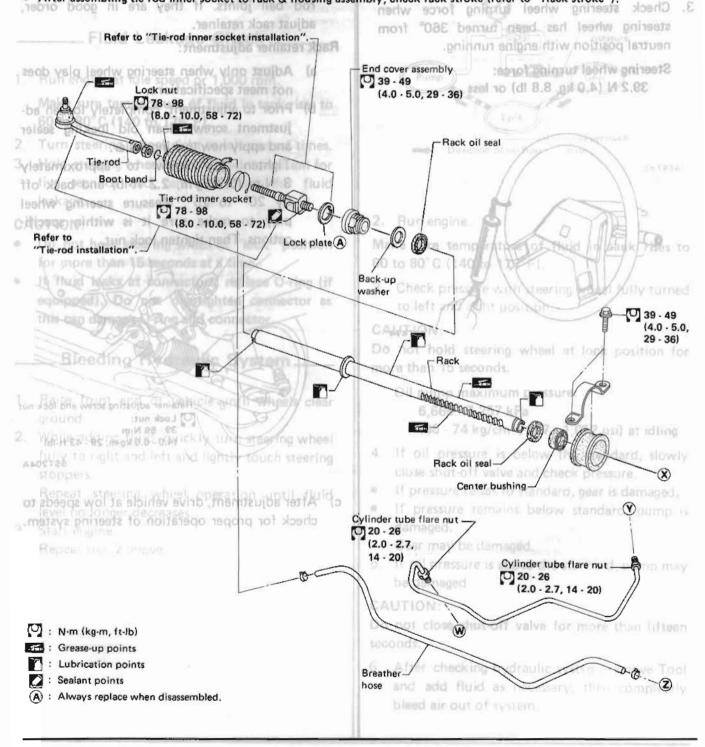
3 N·m (0.3 kg·m, 2.2 ft-lb) and back off by 20° to 25°. Measure steering wheel play to make sure it is within specifications. Then tighten lock nut.

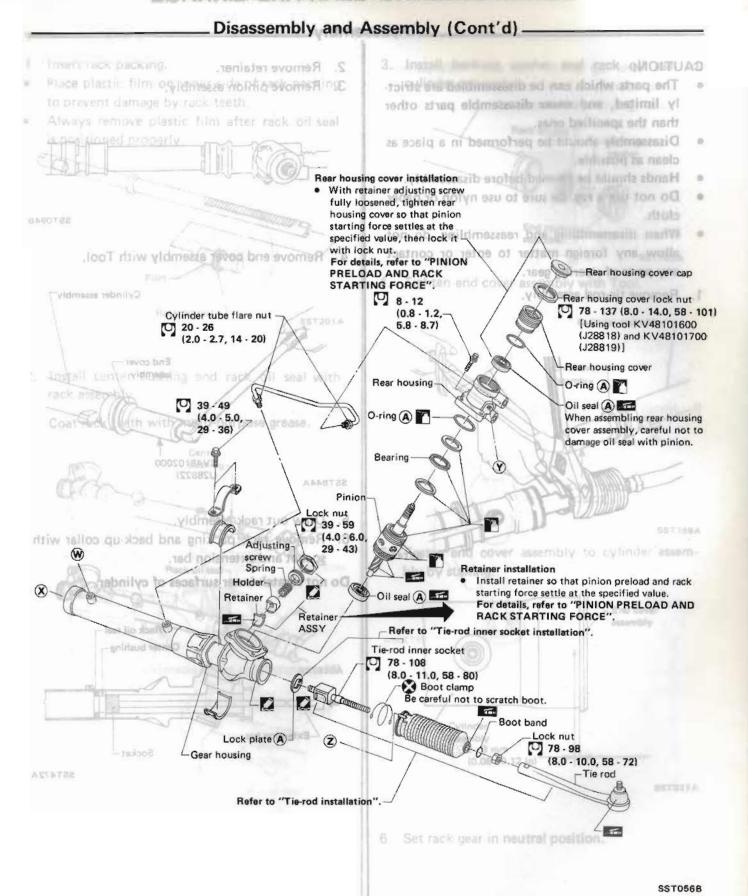


c) After adjustment, drive vehicle at low speeds to check for proper operation of steering system.

Disassembly and Assembly

- Do not disassemble unless repairing to stop oil leak, replacing tie-rod and tie-rod inner socket ball joint, or for various adjustments. (ni 0) mm (0 in) and tire pressure. (Refer to MA seceptains)
- Do not reuse O-rings or oil seals.
- 2....Bring power steering fligididago t When assembling, apply a coat of oil to mating surfaces of O-rings and oil seals. operating temperature, Lamperatu
- When assembling, be careful not to damage oil seals.
- Before starting work, thoroughly clean all parts in cleaning solvent or automatic transmission fluid "Dexron Type" and blow dry with compressed air, if available. Tires must be inflated to normal pressure.
- After assembling tie-rod inner socket to rack & housing assembly, check rack stroke (refer to "Rack stroke").





Disassembly _____

fully 5

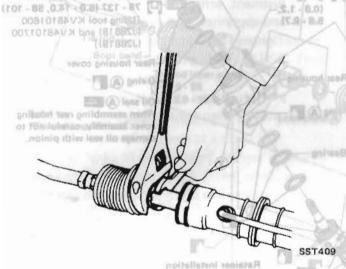
STARTE

ST - B - 12

A her NO

CAUTION: sessemble unless repairing to asset all finit, re

- The parts which can be disassembled are strictly limited, and never disassemble parts other than the specified ones.
- Disassembly should be performed in a place as clean as possible.
- Hands should be cleaned before disassembly.
- Do not use a rag. Be sure to use nylon or paper cloth.
- When disassembling and reassembling, do not allow any foreign matter to enter or contact any parts of steering gear.
- 1. Remove tie-rod assembly.



 Install retainer so that pinion preload and rack starting force settle at the specified value.
 For details, refer to "PINION PRELOAD AND RACK STARTING FORCE".

Refer to "Tie-rod inner socket installation".

Tie-rod inner socket

7 78 - 708

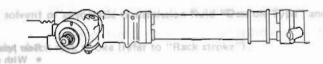
(8.0 - 11.0, 58 - 80)

Boot clamp

Be cereful not to scratch boot.

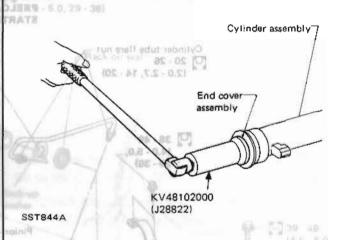
Lock nut Lock nut 78-98 18.0-10.0, 88-721

- 2. Remove retainer, seeker ball joint, or for various
- 3. Remove pinion assembly.



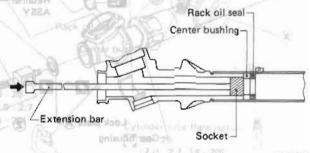
SST094B

4. Remove end cover assembly with Tool.



- 5. Draw out rack assembly.
- Remove rack packing and back-up collar with socket and extension bar.

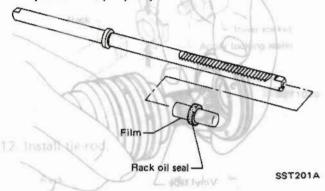
Do not scratch inner surfaces of cylinder.



SST472A

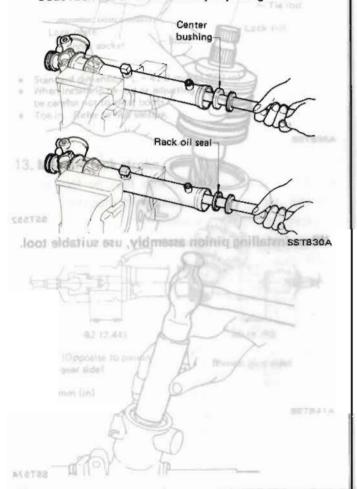
Assembly (Cont'd) Assembly ___

- 1. Insert rack packing. web grizhen seen the same to
- Place plastic film on inner side of rack packing to prevent damage by rack teeth.
- Always remove plastic film after rack oil seal is positioned properly.

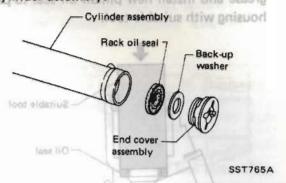


Install center bushing and rack oil seal with rack assembly.

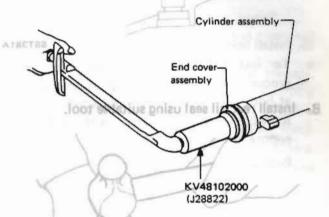
Coat rack teeth with multi-purpose grease.



Install back-up washer and rack oil seal to cylinder assembly.

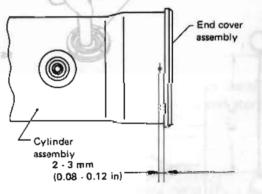


4. Tighten end cover assembly with Tool.



SST759A

Fasten end cover assembly to cylinder assembly by staking.

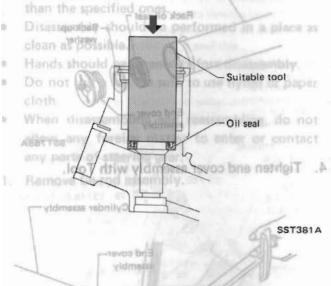


SST827A

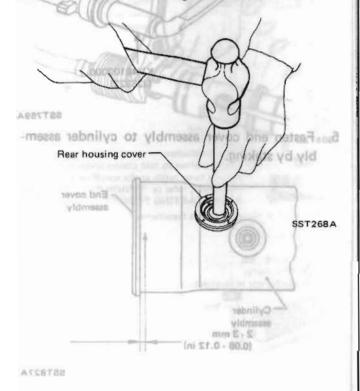
6. Set rack gear in neutral position.

_Assembly (Cont'd)_____

Coat seal lip of oil seal with multi-purpose grease and install new pinion oil seal to pinion housing with suitable tool.

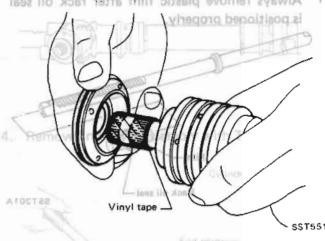


8. Install rear oil seal using suitable tool.



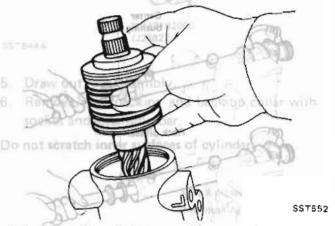
6. Set rack gear in neutral position.

Install rear housing cover assembly to pinion.
 Wrap vinyl tape around pinion serrations to prevent oil seal from being damaged.

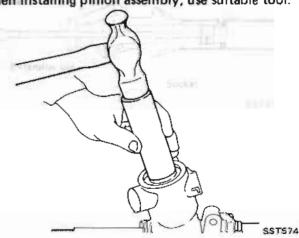


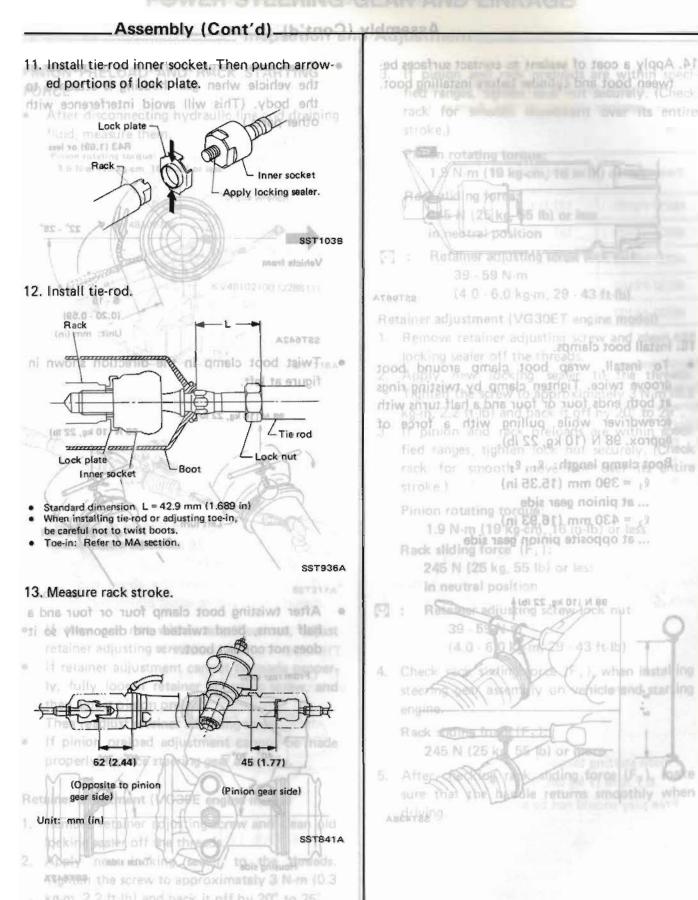
2. Install pinion assembly to pinion housing.

Be careful not to damage pinion teflon ring.



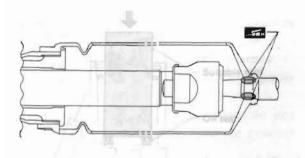
When installing pinion assembly, use suitable tool.





Assembly (Cont'd) (b'tan2) vidmess A

 Apply a coat of sealant to contact surfaces between boot and cylinder before installing boot.



SST967A

SSTIBLA

- 15. Install boot clamps.
- To install, wrap boot clamp around boot groove twice. Tighten clamp by twisting rings at both ends four or four and a half turns with screwdriver while pulling with a force of approx. 98 N (10 kg, 22 lb).

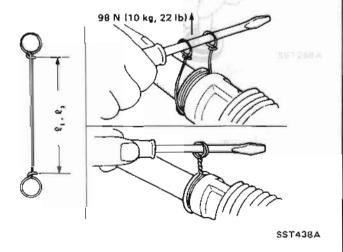
Boot clamp length: ℓ_1 , ℓ_2

 $\ell_1 = 390 \text{ mm } (15.35 \text{ in})$

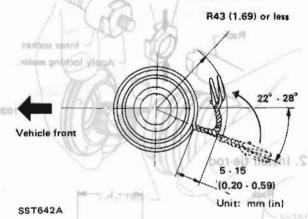
... at pinion gear side

 $\ell_2 = 430 \text{ mm} (16.93 \text{ in})$

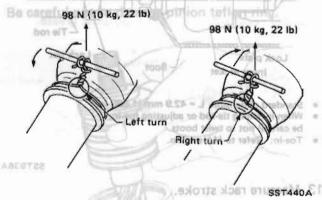
... at opposite pinion gear side



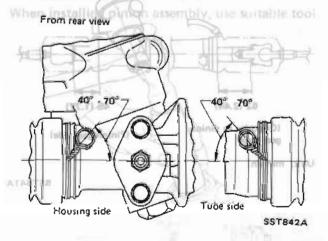
 Install boot clamp so that it is to the rear of the vehicle when gear housing is attached to the body. (This will avoid interference with other parts.)



 Twist boot clamp in the direction shown in figure at left.



 After twisting boot clamp four or four and a half turns, bend twisted end diagonally so it does not contact boot.

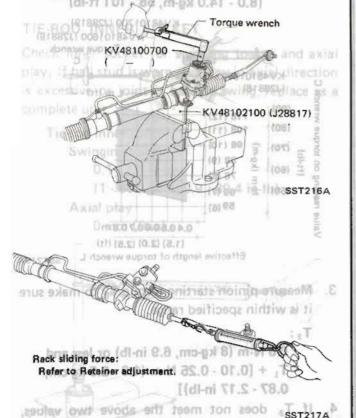


Inspection and Adjustment ____

PINION PRELOAD AND RACK STARTING

 After disconnecting hydraulic line and draining fluid, measure them.

Pinion rotating torque: 1.9 N·m (19 kg-cm, 16 in-lb) or less



AST217A specific and re-adjust pinion preligion

- If they are not within specifications, adjust retainer adjusting screw.
- If retainer adjustment cannot be made properly, fully loosen retainer adjusting screw, and then adjust pinion preload.

Then readjust retainer adjusting screw.

 If pinion preload adjustment cannot be made properly, replace steering gear assembly.

Retainer adjustment (VG30E engine model)

- Remove retainer adjusting screw and clean old locking sealer off the threads.
- Apply new locking sealer to the threads.
 Tighten the screw to approximately 3 N·m (0.3 kg-m, 2.2 ft-lb) and back it off by 20° to 25°.

If pinion and rack preloads are within specified ranges, tighten lock nut securely. (Check rack for smooth movement over its entire stroke.)

Pinion rotating torque:

1.9 N·m (19 kg-cm, 16 in-lb) or less

Rack sliding force:

245 N (25 kg, 55 lb) or less in neutral position

Retainer adjusting screw lock nut:

39 - 59 N·m

(4.0 - 6.0 kg-m, 29 - 43 ft-lb)

Retainer adjustment (VG30ET engine model)

48237-F6101

- Remove retainer adjusting screw and clean old locking sealer off the threads.
- 2. Apply new locking sealer to the threads.

 Tighten the screw to approximately 3 N-m (0.3 kg-m, 2.2 ft-lb) and back it off by 20° to 25°.
- 3. If pinion and rack preloads are within specified ranges, tighten lock nut securely. (Check rack for smooth movement over its entire stroke.)

Pinion rotating torque:

1.9 N·m (19 kg-cm, 16 in-lb) or less

Rack sliding force (F,):

245 N (25 kg, 55 lb) or less in neutral position

- Retainer adjusting screw lock nut
 39 59 N·m
 (4.0 6.0 kg-m, 29 43 ft-lb)
- Check rack sliding force (F₂), when installing steering gear assembly on vehicle and starting engine,

Rack sliding force (F₂):

245 N (25 kg, 55 lb) or more

 After checking rack sliding force (F₂), make sure that the handle returns smoothly when driving.

Inspection and Adjustment (Cont'd)_

CAUTION: Was absoluted to the

When changing retainer spring, use the same part number retainer spring as the former retainer spring.

Part number	Set load N (kg, lb)	Identification (Color)
48237-F6100	127 (13, 29)	Brown
48237-F6101	157 (16, 35)	Pink
48237-W1000	ol v186 (19, 42)	Unpainted
48237-F6102	216 (22, 49)	Green
48237-F6103	245 (25, 55)	Purple

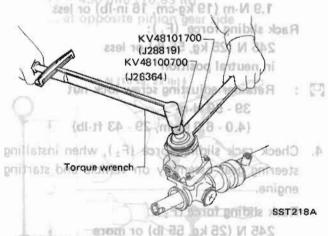
Pinion preload adjustment

Before making pinion preload adjustment, make sure retainer adjusting screw is loosened completely.

Remove retainer adjusting screw and clean old

locking sealer off the t

 Screw in rear housing cover completely and back it off by 180° to 360°. Then turn pinion a few rotations and then measure pinion starting torque.



Pinion starting torque T₁:

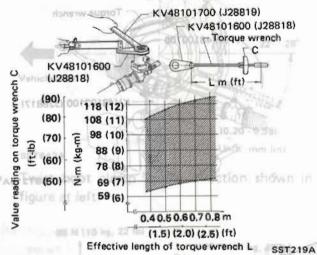
0.7 N·m (7 kg-cm, 6.1 in-lb) or less

Free play should not be allowed for pinion.

2. Screw in rear housing cover until pinion starting torque reaches "T₂"; then tighten lock nut.

 $T_2 = T_1 + 0.5 \text{ N} \cdot \text{m} (5 \text{ kg-cm}, 4.3 \text{ in-lb})$

78 - 137 N·m (8.0 - 14.0 kg-m, 58 - 101 ft-lb)



 Measure pinion starting torque T₃ to make sure it is within specified range.

T3:

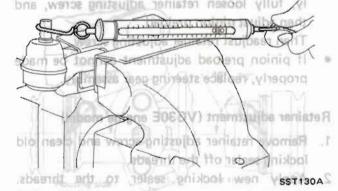
0.8 N·m (8 kg-cm, 6.9 in-lb) or less and T₁ + [0.10 - 0.25 N·m (1.0 - 2.5 kg-cm, 0.87 - 2.17 in-lb)]

 If T₃ does not meet the above two values, repeat step 2 and re-adjust pinion preload.

the they care note within scientifications, 'adjust

TIE-ROD OUTER SOCKET gnitsuibs renister

1. Check ball joint for swinging torque.



Fighten the screw to approximately 3 N-m (0.3 kg-m, 2.2 ft-lb) and back it off by 20° to 25°.

_Inspection and Adjustment (Cont'd)____

Tie-rod outer socket:

The Swinging torque be disassembled are strict.

ly limit 0.15 - 2.94 N·m

(1.5 - 30 kg-cm, 1.3 - 26.0 in-lb)

2. Check condition of dust cover. If it is cracked excessively, replace.

TIE-ROD INNER SOCKET

Do not use a ra

Check inner socket for swinging torque and axial play. If ball stud is worn and play in axial direction is excessive or joint is hard to swing, replace as a FW(A) lime 110 complete unit. Front housing .DISW

Tie-rod inner socket:

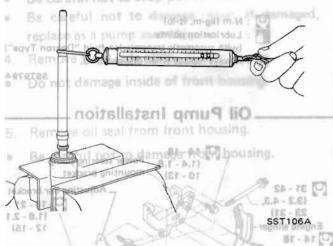
Swinging torque

0.1 - 7.8 N-ms

(1 - 80 kg-cm, 0,9 - 69,4 in-lb)

Ram Axial playing, then draw pulley shaft out.

Ba cara 0 mm (0 in)



BOOT

Check condition of boot. If it is cracked, replace boot. 10 - 13)

CYLINDER TUBES AND BREATHER HOSE

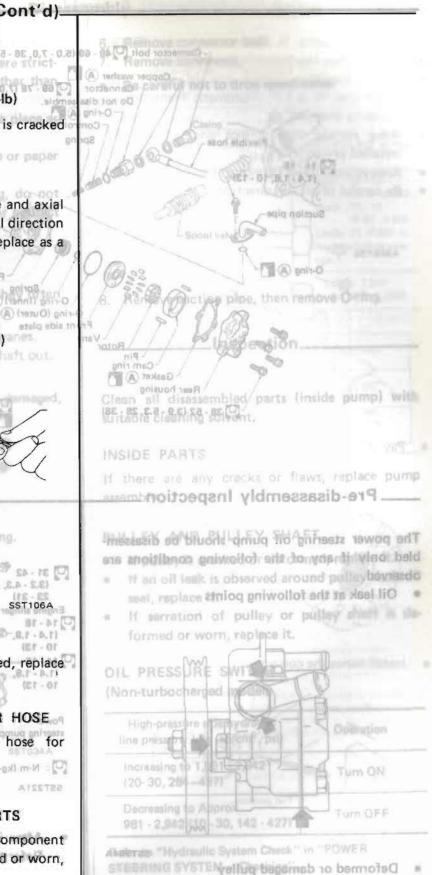
Check cylinder tubes and breather hose for scratches or other damage. (V) = N-m (kg-m, ft-fb)

Replace if necessary.

12 - 15)

STEERING GEAR COMPONENT PARTS

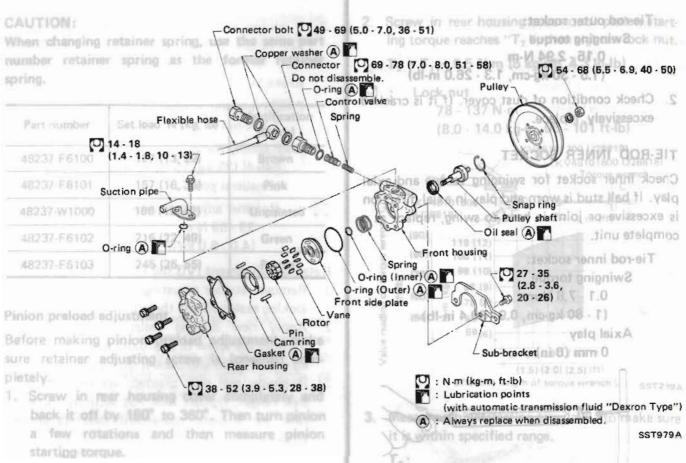
Thoroughly examine steering gear component parts. If those parts are damaged, cracked or worn, replace steering gear as an assembly,



8.1.0.11

95T221A

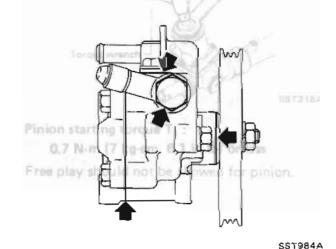
POWER STEERING OIL PUMP



_ Pre-disassembly Inspection -

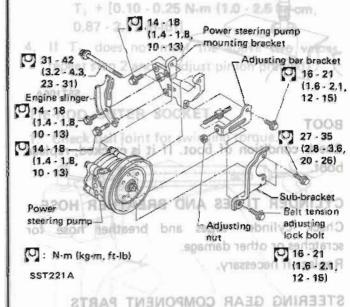
The power steering oil pump should be disassembled only if any of the following conditions are observed.

Oil leak at the following points



Deformed or damaged pulley

Oil Pump Installation.



After installing oil pump, adjust belt tension.

Refer to MA section.

replace steering gear as an assembly.

POWER STEERING OIL PUMP

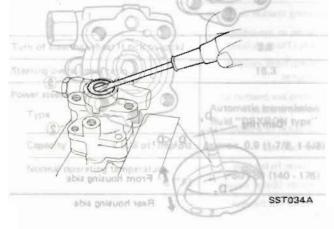
-Disassembly-

CAUTION: is month bins again Q of *. T.T.A. ylqqA

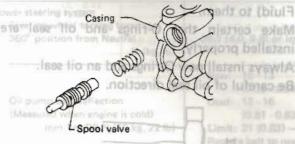
- The parts which can be disassembled are strictly limited. Never disassemble parts other than the specified ones.
- Disassembly should be performed in a place as clean as possible.
- Do not use a rag. Be sure to use nylon or paper cloth.
- When disassembling and reassembling, do not allow any foreign material to enter or contact any parts.
- 1. Remove rear cover upward.
- Be careful not to lose the 2 pins as they often stick to rear cover.
- 2. Carefully remove cam ring, rotor and vanes.
- 3. Remove snap ring, then draw pulley shaft out.
- Be careful not to drop pulley shaft.
- Be careful not to damage rotor. If damaged, replace as a pump assembly.
- 4. Remove front side plate.

SSTABIA

- Do not damage inside of front housing.
- 5. Remove oil seal from front housing.
- Be careful not to damage front housing.



- 6. Remove connector bolt. Il amug lio eldmettA
- 7. Remove connector, walled and and on-vidingers
- Be careful not to drop spool valve.



SST036A

8. Remove suction pipe, then remove O-ring.

Inspection___

Clean all disassembled parts (inside pump) with suitable cleaning solvent.

INSIDE PARTS o noite direction of noithers vag

If there are any cracks or flaws, replace pump assembly.

PULLEY AND PULLEY SHAFT

110-30-142-427

- If pulley is cracked or deformed, replace it.
- If an oil leak is observed around pulley shaft oil seal, replace it.
- If serration of pulley or pulley shaft is deformed or worn, replace it.

Install vanes the corr

OIL PRESSURE SWITCH (Non-turbocharged model)

High-pressure side hydraulic line pressure kPa (kg/cm², psi)	Operation
Increasing to 1,961 - 2,942 (20-30, 284 - 427)	Turn ON
Decreasing to Approx. 981 - 2,942 (10 - 30, 142 - 427)	Turn OFF

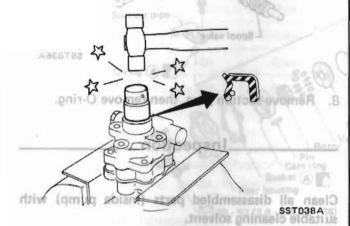
Refer to "Hydraulic System Check" in "POWER STEERING SYSTEM — Checking".

POWER STEERING OIL PUMP

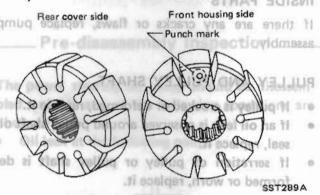
Assembly___

Assemble oil pump in the reverse order of disassembly, noting the following instructions.

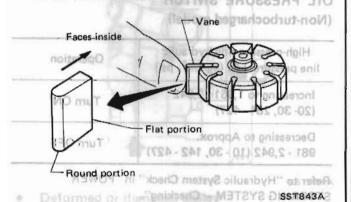
- Before installing O-rings and oil seal, apply a thin coat of A.T.F. (Automatic Transmission Fluid) to them.
- Make certain that O-rings and oil seal are installed properly.
- Always install new O-rings and an oil seal.
- Be careful of oil seal direction.



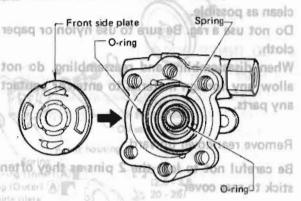
Pay attention to the direction of rotor.



Install vanes the correct way round.

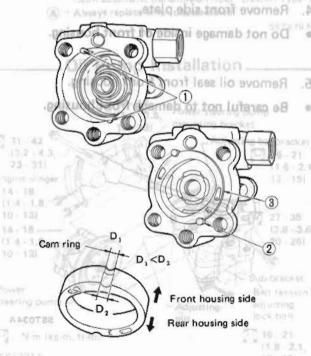


- Apply A.T.F.* to O-rings and front side plate.
- *: Automatic Transmission Fluid
- Take care to fit front side plate the correct way round and do not scratch inside front housing when installing.



ASSETSZUIIV remove cam ring trotor and vanes.

 Insert pins ② into pin grooves ① of front housing and rotor. Then install cam ring ③ as shown below taking care to fit it the correct way round.



SST497A

After installing oil pump, adjust belt tension
 Refer to MA section.

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

General Specifications ____

Inspection and Adjustment (Cont'd)

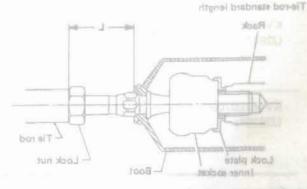
GENERAL

Steering	wheel axial play	mm (in)	TEERIO GEAR
Steering wheel play mm (in)		35 (1.38) or less	
Power s	teering system	/ fokiti "ma-g	in usin industributions
	ring wheel turning position from Ne		39.2 (4.0, 8.8) or less
	(0) 0	(ni)-min	New: 10 - 13
Oil pump belt deflection (Measured when engine is cold) mm (in)/98 N (10 kg, 22 lb)		New: 10 - 13 (0.39 - 0.51) Used: 13 - 16 (0.51 - 0.63) Limit: 21 (0.83) — Replace belt to new one.	
Oil pump maximum pressure kPa (kg/cm², psi)		6,669 - 7,257 (68 - 74, 967 - 1,052)	
Oil	ressure switch op	eration	HECHE
	Hydraulic line p kPa	oressure (kg/cm², psi)	Operation
	Increasing to 1, (20 - 30, 284 -		62 (2.44) NO nruT
	Decreasing to 9		Turn OFF

Units min tint

Steering	g wheel axial play	mm (in)	STEERI (O) O GEAR
Steering	Steering wheel play mm (in)		35 (1.38) or less
Power s	steering system	r fokul "ma-g	at usay inhiot hughlyas
Stee	ering wheel turning position from Neu		39.2 (4.0, 8.8) or less
	(6) 0	inil-mir	New: 10 - 13
	pump belt deflectio asured when engine mm (in)/98 N (is cold)	(0.39 - 0.51) F Used: 13 - 16 (0.51 - 0.63) Limit: 21 (0.83) — Replace belt to new one.
Oil	pump maximum pro	essure (kg/cm², psi)	6,669 - 7,257 (68 - 74, 967 - 1,052)
Oil	pressure switch ope	ration	- BECOM
	Hydraulic line p kPa	ressure (kg/cm², psi)	Operation
	Increasing to 1,9 (20 - 30, 284 - 4		82 (2.44) Turn ON
	Decreasing to 98 (10 - 30, 142 - 4		Turn OFF

SSTRATA



Standard dimension L = 42.9 mm (1,689 in)
When installing tie-rod or adjusting toe-in,

	.000C)	1511/17	-92		CHARD-DO	
SST93	.noitset	AM	03	Refer	rai-soT	

1,9 (19, 18) or less	Parlon retaking torque (Pinion and rack guar assembly without fluid) N-m (kg-cm, in-lb)
245 (25, 55) or less	Rack sliding force in neutral position (Pinion and rack gear assembly without fluid) N (kg, Its)

Steering gear type	PR24S [Power steering]
Steering column	100 6th
Type 86 0.8 0.8 98	Collapsible Collapsible
Column length: L	Steering column to body 13
03-95-12225	Hale gover to deep panel; 3 -
Non-tilt type QE AS QC	
Column length "L"	4
Steering column	set 7 The unit would revise the
Jacket tube	
1 1	
(PR24S)	L = 478.7 · 480.3 mm
did did	(18.85 · 18.91 in)
98 8.0 - 1 0 58 - 72	Tile-röd lagk nut
ST Boot Boot	- BY OF FUNDOR SST207A NT Crosless HIWI Host
00 - 01	Allinder and cover lock 78 -
137 8.0 - 14.0 58 - 101 Tilt type	Jumping up
700000	RE / Tilt up and tenister
	(2 step)
49 40 - 5.0 @ 29 - 38	annucli stephil di uni
3	Neutral bores
CIS COM	
700	Tilt down
	Steering column position
L=478.7 - 480.3 mm ssT208A at steering column	
1.4-1.8 10-13	founting breaker to engine 14 -
10 00 PA DE CI	. 15 politovom ot garua III

10 00 03 05 05 1	Oll Butto to mounting 2
urn of steering wheel (Lock to lock)	bracket (Thrs8.2) bold
teering overall gear ratio	grisuon triorit graug IIO 15.3
ower steering fluid S . a. r	Automatic transmission fluid "DEXRON type"
Capacity (US pt, Imp pt)	Approx. 0.9 (1-7/8, 1-5/8)
Normal operating temperature °C (°F)	60 - 80 (140 - 176)
0-69 5.0-7.0 36-51	Connector (to flexible 4 those)
1.4 1.8 10 13	Suction pipe to casing (a

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

_ Inspection and Adjustment _____ (Cont'd)

_ Tightening Torque _

Steering gear type

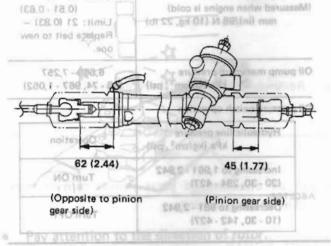
STEERING GEAR AND LINKAGE (PR24S)

Tie-rod outer ball joint	0.15 - 2.94
Swinging torque N·m (kg-cm, in-lb)	(1.5 - 30, 1.3 - 26.0)
Tie-rod inner ball joint	0.1 - 7.8
Swinging torque N-m (kg-cm, in-lb)	(1 - 80, 0.9 - 69.4)
Axial play mm (in)	0 (0)

Rack stroke out of oil seal direction.

Used: 13 - 16

Assemble oil pump



Unit: mm (in)

Tie-rod standard length

Lock plate

SST841A

Oil pump belt deflection

Rack

Standard dimension L = 42.9 mm (1.689 in)
 When installing tie-rod or adjusting toe-in,

be careful not to twist boots.
 Toe-in: Refer to MA section.

Inner socket

SST936A

Lock nut

Pinion rotating torque (Pinion and rack gear assembly without		1.9 (19, 16) or less
fluid)	N·m (kg-cm, in-lb)	
	force in neutral position ack gear assembly without N (kg, lb)	245 (25, 55) or less

Boot

STEERING COLUMN

Unit dies care to it.	N-m	kg-m	ft-lb
Steering wheel nut	49 - 59	5.0 - 6.0	36 - 43
Steering column to body	13 - 18	1.3 - 1.8	9 - 13
Hole cover to dash panel	3 - 5	0.3 - 0.5	2.2 - 3.6
Column joint fixing bolt (Lower joint, column set)	24 - 29	2.4 - 3.0	17 - 22
Jacket lower tube to steering column clamp	16 - 21	1.6 - 2.1	12 - 15

STEERING GEAR & LINKAGE (PR24S)

Unit Breat deat	N·m	kg-m	ft-lb
Tie-rod lock nut	78 - 98	8.0 - 10.0	58 - 72
Tie-rod inner socket to rack (With sealant)	78 - 98	8.0 - 10.0	58 - 72
Cylinder end cover	39 - 49	4.0 - 5.0	29 - 36
Rear housing cover lock nut	78 - 137	8.0 - 14.0	58 - 101
Retainer lock nut	39 - 59	4.0 - 6.0	29 - 43
Cylinder tube flare nut	20 - 26	2.0 - 2.7	14 - 20
Gear & linkage mounting	39 - 49	4.0 - 5.0	29 - 36
Tie-rod to knuckle arm	54 - 98	5.5 - 10.0	40 - 72

OIL PUMP

nwab slift

Steering column

Unit multiseg lest	N·m	kg-m	ft-lb.805T8
Mounting bracket to engine	14 - 18	1.4 - 1.8	10 - 13
Oil pump to mounting bracket (Through bolt)	31 - 42 (x30f-or	3.2 - 4.3	23 - 31 patress to mu
Oil pump front housing sub bracket	27 - 35	2.8 - 3.6	20 - 26
Adjusting bar bracket to mounting bracket	16 - 21	1.6 - 2.1	12-15 agyT
Sub bracket to adjusting bar	16 - 21	1.6 - 2.1	12 - 15
Pulley lock nut	54 - 68	5.5 - 6.9	40 - 50
Rear cover fixing bolt	31 - 42	3.2 - 4.3	23 - 31
Connector (Spool cover)	69 - 78	7.0 - 8.0	51 - 58
Connector (to flexible hose)	49 - 69	5.0 - 7.0	36 - 51
Suction pipe to casing	14 - 18	1.4 · 1.8	10 - 13

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

HYDRAULIC LINE SWITCH	AND C		SURE	Tool name	Tool number (Kent-Moore No.)
Unit	N·m	kg-m	ft-lb		(LOST BIOCHETTISTE
Low-pressure pipe to steering gear High-pressure pipe to steering gear High-pressure pipe	27 - 39 15 - 25 49 - 69	2.8 - 4.0 1.5 - 2.5 5.0 - 7.0	20 · 29 11 · 18 36 · 51	Steering wheel puller	ST27180001 (J25726-A)
connector bolt (At oil pump) Oil pressure switch	16 - 24	1.6 - 2.4	12 · 17	Ball joint remover	HT72520000 (J25730-A)
XV48102000			974		
			0	Pressure gauge	ST27091000 (J26357)
		(a)		Rear housing lock nut wrench	KV481D1600 (J28818)
				Rear cover swerich	KV48101700 (J28819)
		0			
			200	Power steering stand CD CD	KV48102100 (J28817)
			0	Torque adapter	<pre><v48100700 (j26364)<="" pre=""></v48100700></pre>

(2.0.2) SPECIAL SERVICE TOOLS BOWRES

	Cont'd)				
Tool number (Kent-Moore No.)	(N Tool name (PR24S)	STEERINGSERL	AND WA	JUL TIME	NTCH
od poet net Joint	9,1912.80	जीवन प्रयु स्त्रीवर्ण (गर)	40-00-	9.0 - 6.0	38 143
ST27180001 (J25726-A)	Ottoring Wilcor punci	99	27 19 01	13-9390	v-pressure pi
kwing:nij tarque Mim Dep	CW. IN ID! (T 188, 0.0 - 18.4)	89 Part days Evid			iq erusiave p
Avid play : r	m (m)	Column bint fixing both	24 - 29		רוֹרֶקְ מַיּנְיִירְ מי מרוויזים מיניים
HT72520000 (J25730-A)	Ball joint remover	Jack Holling Tolking	16 21	1.6-2.1	Hostnossen famua lio
	and the property of the second	D907			WE STURBER
		PATE G GEAR		AGE (PR	293)
ST27091000	Pressure gauge		Nims	Jegere	
(J26357)				NO 100	
KV48101600	Rear housing lock nut	Pulliodia and Super lock	// 137	20-140	72. 30
KV48101600 (J28818)	wrench				
	1534 ASE (05 DE)	B B	39 59		
(Caposite to place)	Can C Pinton grar side!		20 20	20 20	18 79
KV48101700 Rear cover wrench	Rear cover wrench	Tie-rod to knackie ann	84 98	5.5 10.0	44 77
(J28819)			3		
		1	9)		
KV48102100	Power steering stand				
(J28817)					
The same of	000000				
	- 25	Under the recent con	100	44 17	
KV48100700 (J26364)	Torque adapter	Componit bounty			
AMERICAN STREET, STREET,	Lywise				
Look plate	Epot Look nut	O STATE OF			
Nandard Beregion 1 < 4	I O TEN I ERO DE	Fully lock that	01.00	100	10111
When installing hanned or wickwise doctor round box		Raw cover fixing bots		12.43	
bein Beler and on		Chinamital (Span Gram			
nt rotating torque		Committee the treatment			
on and rock gear disamb-; Non-(kg-		Fine). Sincere time of Leaving.	14 18	14111	
The second of the second of					
The services and the					

SPECIAL SERVICE TOOLS

Tool number (Kent-Moore No.)	Tool name	DE
ST3127S000 (See J25765-A) ① GG91030000 (J25765-A) ② HT62940000 (-) ③ HT62900000	Preioad gauge Torque wrench Socket adapter Socket adapter 3	IUN ELEMENT
	End cover socket wrench NG including all clip	0F-2
TRUMENT (Inch	uding "Center console")	BF-16
	wer sest" and wiring diagram?	BF-17
T BELT		
ERIOR AND EX	TERIOR	BF-29
DSHIELD AND	WINDOWS	
AR ROOF		BF-41
ROR (Including	wiring diagram)	BF-42
AR AIR SPOILE	B 1 25 V1 V1 V1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1	BF-43
AR COMBINATION	ON LAMP	BF-44
Y ALIGNMENT	- Engine compartment & Underbody at dimensions between the points and the coordin	nates of the points) BF-45

. "Remarks" and "Connections" in electrical diagram show the terminal meaning and actual

* For connector Nos. in wiring diagrams in this section, refer to Harness Layout in EL so

Use only for studying the operation.

electrical flow.