

SERVICE MANUAL

DATSUN PICK-UP

MODEL 521 SERIES

CHASSIS AND BODY



NISSAN MOTOR CO., LTD.

TOKYO, JAPAN

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

CHASSIS

ENGINE SERVICE POINTS	MAINTENANCE INTERVAL											
	0.6	3	6	9	12	15	18	21	24	27	30	50
Replace capacitor air cleaner element									X			
Check or replace silicone spark plugs	X	X	X	R	R	X	X	X	R	X	X	R
Check or replace distributor breaker points	X	X	X	R	R	X	X	X	R	X	X	R
Replace oil filter	X	X	X	X	X	X	X	X	X	X	X	X
Replace cartridge type fuel strainer									X			
Retighten cylinder head bolts and manifold nuts	X											
Adjust valve clearance	X	X	X	X	X	X	X	X	X	X	X	X
Check and adjust ignition timing	X	X	X	X	X	X	X	X	X	X	X	X
Check high tension cables					X				X			X
Check fan belt tension	X		X		X		X		X		X	X
Adjust engine idling	X	X	X	X	X	X	X	X	X	X	X	X
Engine tune-up					X				X			X
Check fuel line hoses, pipings, connections, etc. for leaks	X	X	X	X	X	X	X	X	X	X	X	X
Check engine for oil and water leaks	X		X		X		X		X		X	X
Check battery specific gravity	X				X				X			X
Check air pump belt tension	X	X	X	X	X	X	X	X	X	X	X	X
Check hoses & piping connections for loose (A.I.S. & P.C.V.)					X				X			X
Check air pump for operation					X				X			X
Check emission control valves for operation					X				X			X
Check for operation of electrical switches of emission control system					X				X			X

R, Replacement

CHASSIS

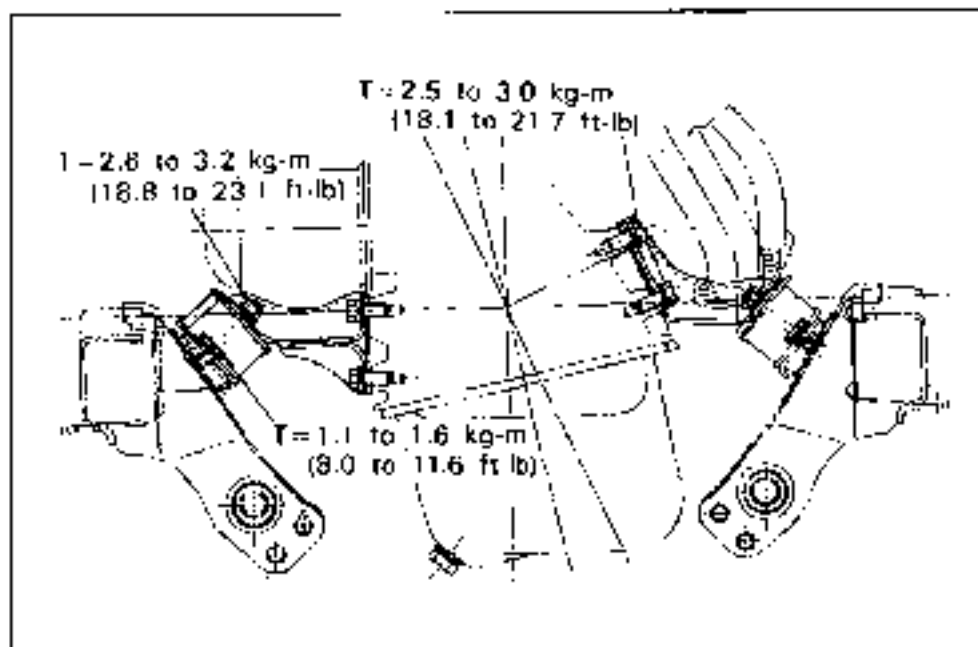


Fig. ER-6 Sectional view of front engine mounting
(for the L16 engine)

REAR ENGINE MOUNTING

One type of rear engine mounting is used for engine with long extension. For engines with short extension,

two types of rear engine mounting (for the J series engines and L series engines) are used.

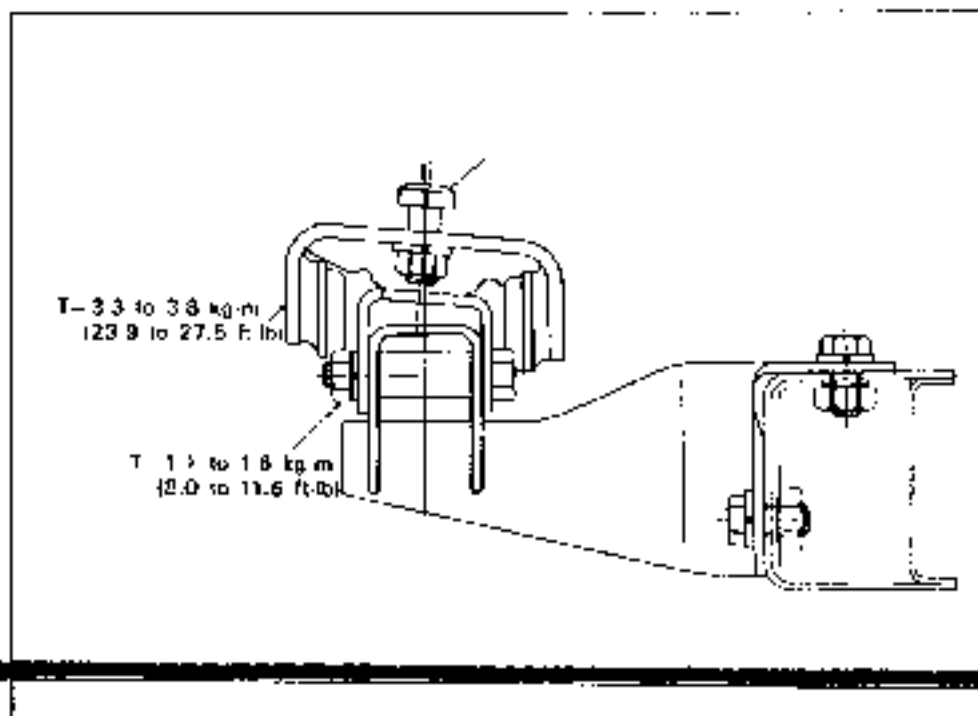


Fig. ER-7 Sectional view of rear engine mounting
(for the GN521 model)

CHASSIS

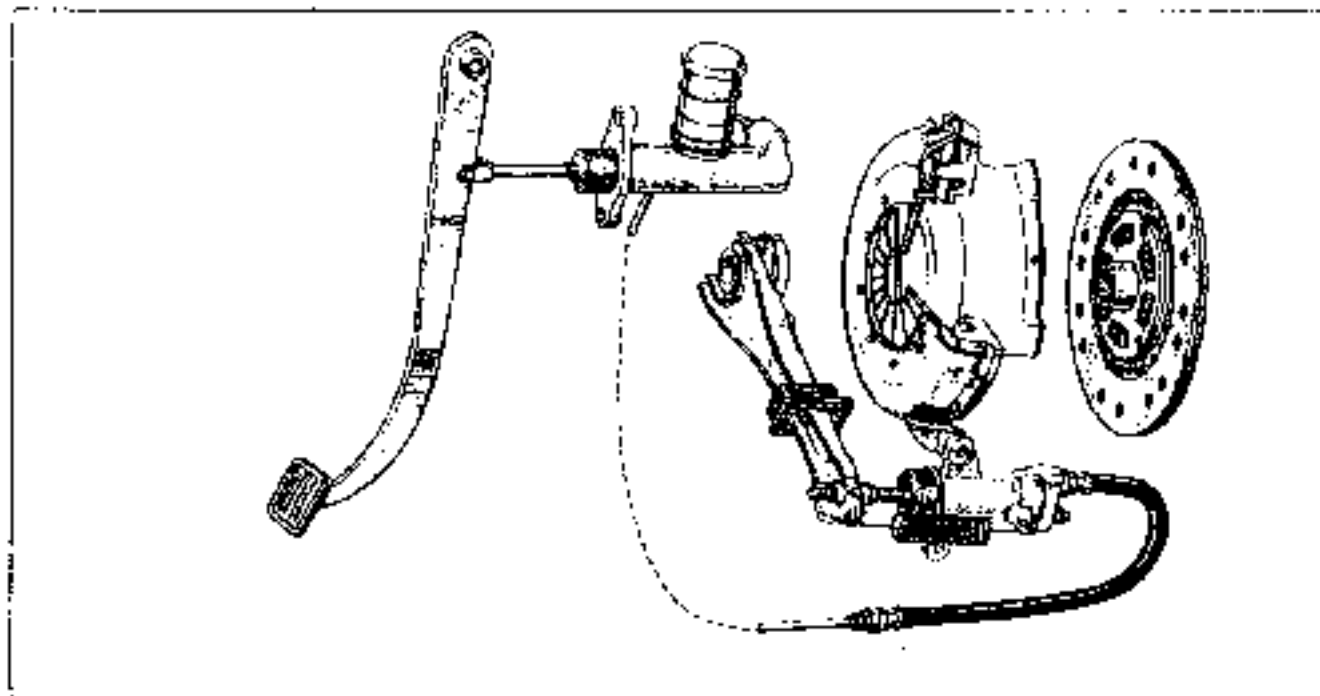


Fig. CL-16 Clutch control

CLUTCH PEDAL

Removal

1. Remove return spring.
2. Loosen lock nut of master cylinder push rod and disconnect push rod end.
3. Remove lock nut and washer of pedal shaft and remove pedal lever.

Inspection

Thoroughly clean all disassembled parts (indicated below) and carefully check them for wear, damage and other abnormal conditions. Repair or replace them with new ones, if required.

1. Pedal head rubber
2. Return spring
3. Pedal lever bush
4. Sinterum pedal pin, etc.

Reinstallation

Reinstall clutch pedal in reverse sequence of removal.

Adjustment

1. Adjust pedal pad height to *138.5 mm (5.45 in) for R.H. drive] without stopper. The adjustment is made by selecting and applying shim(s) having adequate thickness. Be sure to use shims having same thickness for both upper and lower.

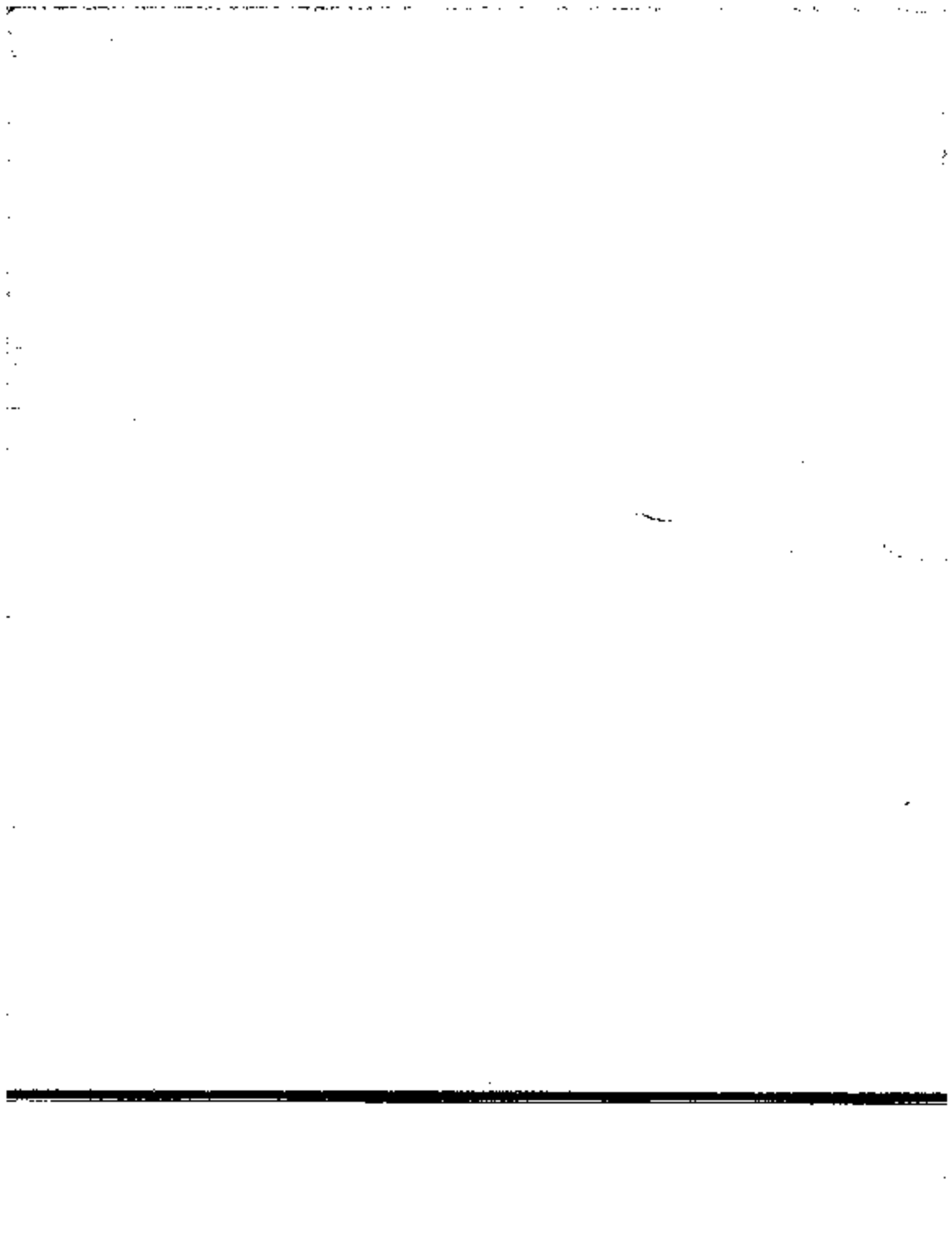
* 157 mm (6.02 in) for L.H. drive]

2. Next, adjust pedal stopper properly so that the pedal pad height is *135.5 mm (5.33 in) for R.H. drive], and secure the position with lock nut.

* 150 mm (5.91 in) for L.H. drive]

Note: a. Make sure that chassis grease has been applied to the (MG) marked portions (two places). Grease if required.

Do not screw in it more than 3 mm (0.1181 in), because it may clog the return port of master cylinder.



CHASSIS

Gear and shaft

1. Check gear for wear, damage and/or crack, and replace as required.
2. Check shaft for crack, wear, and worn spline. Replace if required.
3. Check main shaft for straightness.

Replace main shaft with a new one if run-out at rear end exceeds maximum limit.

Maximum run-out: 0.15 mm (0.0059 in)

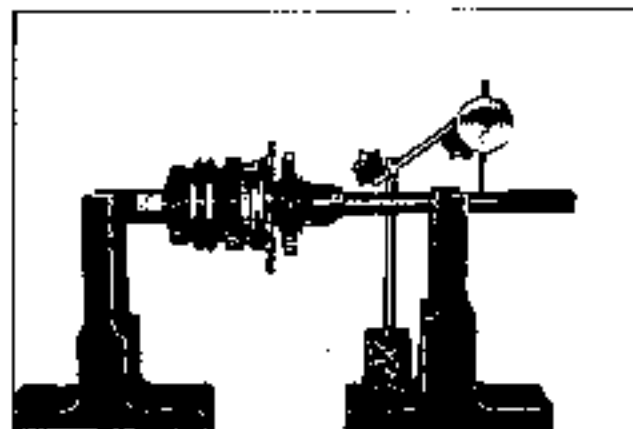


Fig. TM-23 Checking main shaft for straightness

4. Measure backlash of each gear. When gear is worn excessively beyond limit, recommend both drive and driven gears are replaced as a set.

Standard (all gears): 0.05 to 0.10 mm
(0.0020 to 0.0039 in)
Wear limit (all gears): 0.20 mm (0.0079 in)

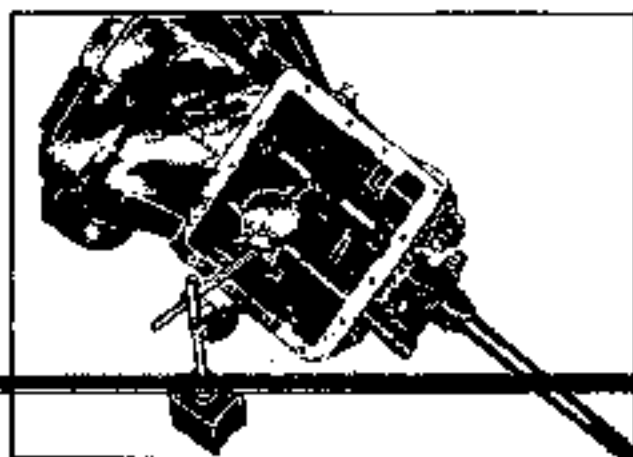


Fig. TM-24 Measuring gear backlash

5. End plays of 1st, 2nd, and 3rd gears should be in range from 0.05 to 0.15 mm (0.0020 to 0.0059 in). When the end play is deviated from this range, select proper snap ring again.

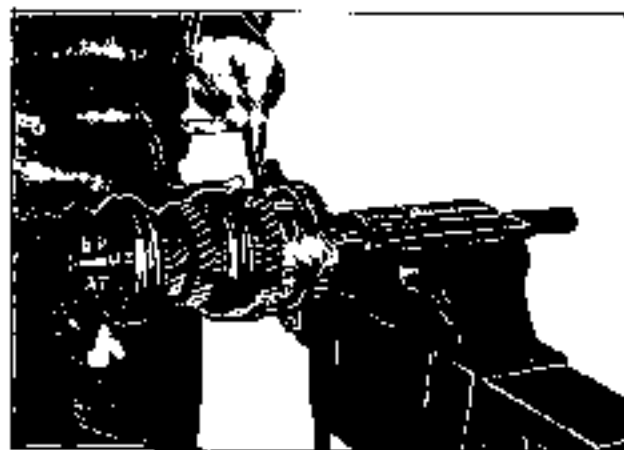


Fig. TM-25 Measuring gear end play

Bulk ring

1. Check bulk rings for wear, pitting, chip and/or bur. Replace as required.
2. Place bulk ring in position on cone of each gear. Push ring to gear and check gap between bulk ring end face and clutch tooth front face. This gap should be within 1.2 to 1.6 mm (0.047 to 0.063 in). When gap is less than 0.6 mm (0.031 in), replace bulk ring with a new one. If it is worn excessively.

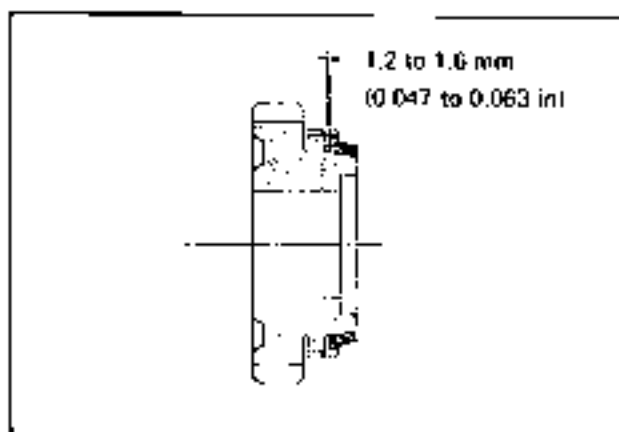


Fig. TM-26 Bulk ring-to-cone installing dimension

Shifting insert

Replace, if worn excessively or unevenly, deformed, or damaged.

CHASSIS

SERVICE DATA AND SPECIFICATIONS

CONTENTS

General specifications	TM-18	TIGHTENING TORQUE	TM-20
Specifications	TM-18		

General specifications

Type	F4W63			R4W6J			R4W63		
Control system	Floor shift			Column shift			Column shift		
Synchromesh type	Warner			Warner			Warner		
Gear ratio									
1st	3.657			4.243			5.000		
2nd	2.177			2.558			3.014		
3rd	1.419			1.587			1.685		
4th	1.000			1.000			1.000		
Rev.	3.638			4.367			5.146		
Speedometer gear ratio	19/5	18/5	17/5	18/5	17/5	19/5	18/5		
Final gear ratio	4.875	4.625	4.375	4.625	4.375	4.875	4.625		
*Extension housing	short			long	short	long	long	short	long
Oil capacity	1.7 ℓ			2.0 ℓ	1.7 ℓ	2.0 ℓ	2.0 ℓ	1.7 ℓ	2.0 ℓ

Note: a) *: See page TM-2 "Extension housing".

- b) 1.7 ℓ (3.6 US pts, 3.0 Imp pts)
 2.0 ℓ (4.2 US pts, 3.5 Imp pts)

Specifications

Item	Model	F4W63, R4W6J
Each gear backlash (for all gears)		
Standard backlash	mm (in)	0.05 to 0.10 (0.0020 to 0.0039)
Replacement standard	mm (in)	0.20 (0.0079)

CHASSIS

- When snap ring (1) is damaged or deformed, replace.
- When bearing oil seal, ring (2) and/or needle roller (3) is damaged or worn, replace.
- When sleeve yoke and main shaft splined portions are damaged or worn, replace sleeve yoke and main shaft.
- When propeller shaft tube surface is dented or cracked, replace.
- When center bearing is worn or damaged, replace.

ASSEMBLY

Assemble propeller shaft in reverse sequence to disassembly.

Grease is sealed in joint so that no greasing is required. Fill joint with wheel bearing grease whenever propeller shaft is overhauled.

Snap ring functions also as a shim to adjust gap. Select a proper snap ring so that slackness is 0 to 0.02 mm (0 to 0.0008 in). Moreover, when a snap ring is selected, be sure to select another snap ring having the same thickness for opposite side. Install and assemble components correctly so that joint moves under bending friction resistance of less than 10 kg/cm (56 lb/in).

Tightening torque:

Companion flange (center bearing unit) installation nut (G521 and GN521) . . . 10 to 15 kg-m (74 to 111 ft-lb)

Bearing mounting bracket installation bolt (G521 and GN521) . . . 2.4 to 2.7 kg-m (18 to 20 ft-lb)

Propeller shaft installation bolt
2.5 to 3.0 kg-m (18.5 to 22 ft-lb)

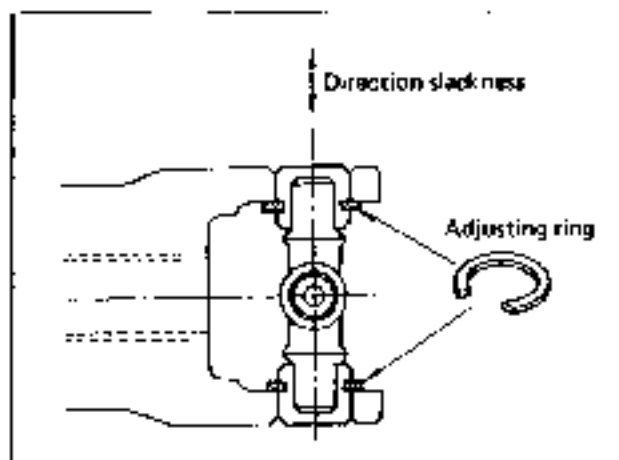


Fig. PD-7 Selection of snap ring

Snap ring over size:

Part number	Thickness mm (in)	Color identification
37146 14600	2.00 (0.0788)	White
37147 14600	2.02 (0.0795)	Yellow
37148 14600	2.04 (0.0803)	Red
37149 14600	2.06 (0.0811)	Green
37150 14600	2.08 (0.0819)	Blue
37151 14600	2.10 (0.0827)	Brown
37152 14600	2.12 (0.0834)	No paint

SERVICE DATA AND SPECIFICATIONS

	Vehicle		
	LLV.N521	S21T Floor shift (Except GNS21T)	GNS21
Distance between joints mm (in)	1,233 (48.5)	1st 615 (24.2) 2nd 743 (29.3)	1st 615 (24.2) 2nd 983 (38.7)
Tube outer diameter x thickness mm (in)	68.9 x 1.6 (2.713 x 0.063)	63.5 x 1.6 (2.500 x 0.063)	63.5 x 1.6 (2.500 x 0.063)
Spline model	Involute spline	Involute spline	Involute spline
Permissible unbalance gr-cm/rpm	15/4,000	15/4,000	15/4,000

CHASSIS

c. Correct contact

When proper tooth contact is obtained, wipe off red lead from gear face. A correct contact pattern means that it lies in the range of 2/3 to 3/4 from tip of tooth when no load is applied.

Note: Change in the thickness of adjusting washer or

stem is accompanied by change in backlash. Check it when installing gear.

INSTALLATION

Install differential carrier in reverse sequence to removal. Lubricate gears with gear oil upon completion of installation.

SERVICE DATA AND SPECIFICATIONS

Final gear type	Hypoid		
Final gear ratio (number of teeth)	521, G521	36/7	5.143
	V521	37/8	4.625
	N521, GN512	39/8	4.875
	VN521, UN521	35/8	4.375
	PL521	35/8	4.375
Drive pinion			
Preload when using new bearings (without oil seal)	kg-m (ft-lb)	7 to 10 (50.6 to 72.3)	
Standard distance between drive gear center and top face of drive pinion	mm (in)	61 (2.402)	
Thickness of drive pinion adjusting washers	mm (in)	2.31 to 2.59 (0.0909 to 0.1020) Spacing 0.02 (0.0079)	
Length of drive pinion bearing spacer	mm (in)	67.56 to 68.00 (2.6598 to 2.6772)	
Drive gear			
Backlash between drive gear and pinion	mm (in)	0.13 to 0.18 (0.0051 to 0.0071)	
Runout of rear side of drive gear	mm (in)	Less than 0.05 (0.0020)	
Side gear and pinion mate			
Thickness of side gear thrust washers	mm (in)	0.76 to 1.11 (0.0299 to 0.0437)	
Clearance between side gear and thrust washer	mm (in)	0.02 to 0.08 (0.0008 to 0.0031)	
Side bearing			
Standard width	mm (in)	20.00 (0.7874)	
Thickness of side bearing adjusting shims	mm (in)	0.05 (0.0020), 0.07 (0.0028), 0.12 (0.0047), 0.25 (0.0098), 0.50 (0.0197)	

CHASSIS



Inner race



Roller flaking



Cracked inner race



Cracked roller



Recess on inner race made by bit foreign matter



Recess on outer race made by bit foreign matter



Recess on roller made by bit foreign matter

4. Spindle

Check spindle for crack by means of a magnetic exploration or dyeing test, and replace if cracked.

When bearing inner race slips against spindle, replace spindle with a new one. When thread is damaged, repair or replace.

Standard dimensions

	Outer bearing	Inner bearing
Spindle diameter mm(in)	19.972 to 19.985 (0.7863 to 0.7868)	31.967 to 31.983 (1.2585 to 1.2592)

5. Front hub

Check front hub for crack by means of a magnetic exploration or dyeing test, and replace if cracked.

Standard dimensions

	Outer bearing	Inner bearing
Wheel hub bore mm(in)	51.955 to 51.974 (2.0455 to 2.0462)	64.955 to 64.974 (2.5573 to 2.5580)

6. Thrust bearing

Check thrust bearing, and replace if damaged, rusted,

CHASSIS

(3) Make the distance of rubber bushings to be 36.6 mm (1.441 in) by tightening nut on the front end of tension rod.

When rubber bushings are compressed unequally, adjust the position of adjusting nut.

Lock nut tightening torque	1.5 to 2.1 kg-m (10.8 to 15.2 ft-lb)
Bracket bolt tightening torque	1.5 to 2.1 kg-m (10.8 to 15.2 ft-lb)

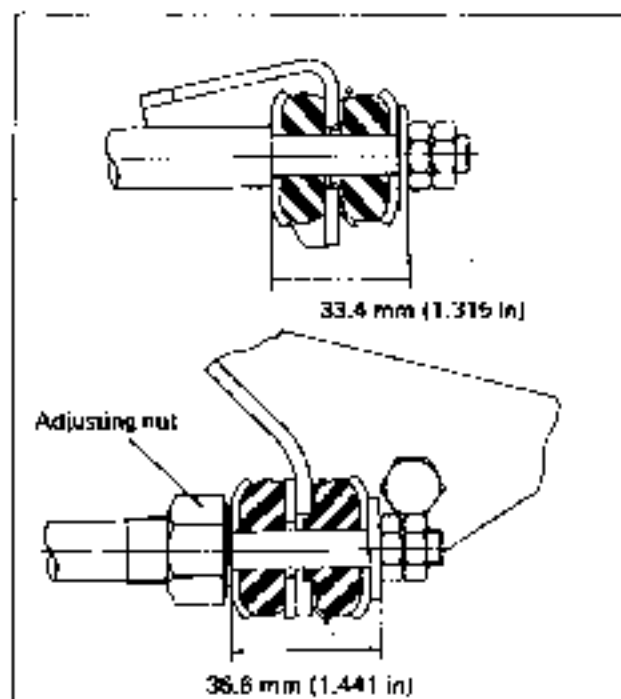


Fig. FA-31 Tension rod installation

6. Shock absorber

Turn nut fully against the threaded upper end of shock absorber, and tighten lock out with specified tightening torque.

Note: Be sure to position suspension as shown in Figure FA-30.

Upper lock nut tightening torque:	1.5 to 2.1 kg-m (10.8 to 15.2 ft-lb)
Lower bolt tightening torque:	3.6 to 4.3 kg-m (26.0 to 31.1 ft-lb)

7. Stabilizer

Tighten nut to arrange the height between lower link and stabilizer as shown in Figure FA-32.

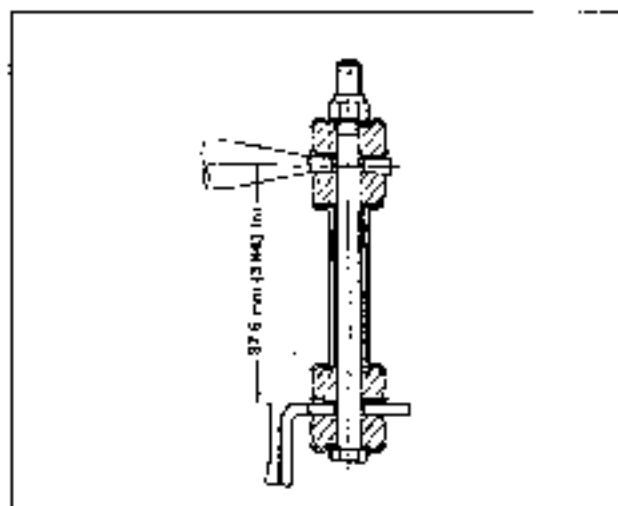


Fig. FA-32 Stabilizer installation

Bracket bolt tightening torque:
1.5 to 2.1 kg-m (10.8 to 15.2 ft-lb)

8. Torsion bar spring

(1) Grease serrations on both ends of torsion bar sufficiently, and install it on torque arm.

Note: Be careful to select left and right torsion bar springs correctly. They can be identified with "R" (Right) and "L" (Left) marked on the end surface.

(2) Position lower link so that no clearance is between lower link and bumper rubber, and install spring anchor on torsion bar to obtain "A" dimension shown in Figure FA-33.

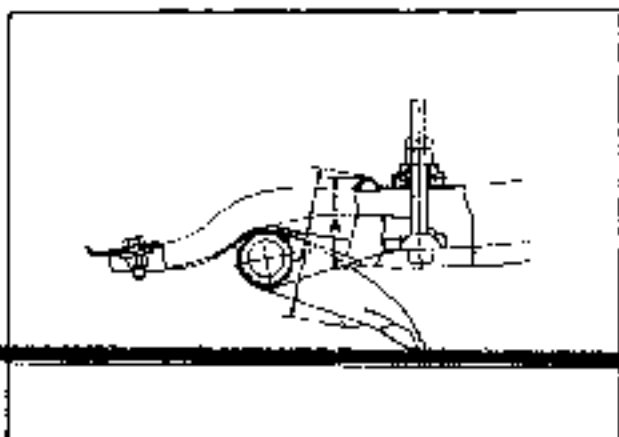


Fig. FA-33 Anchor arm installation

REAR AXLE

REAR AXLE

CONTENTS

DESCRIPTION	RA-1	INSPECTION	RA-7
REMOVAL	RA-1	INSTALLATION	RA-8

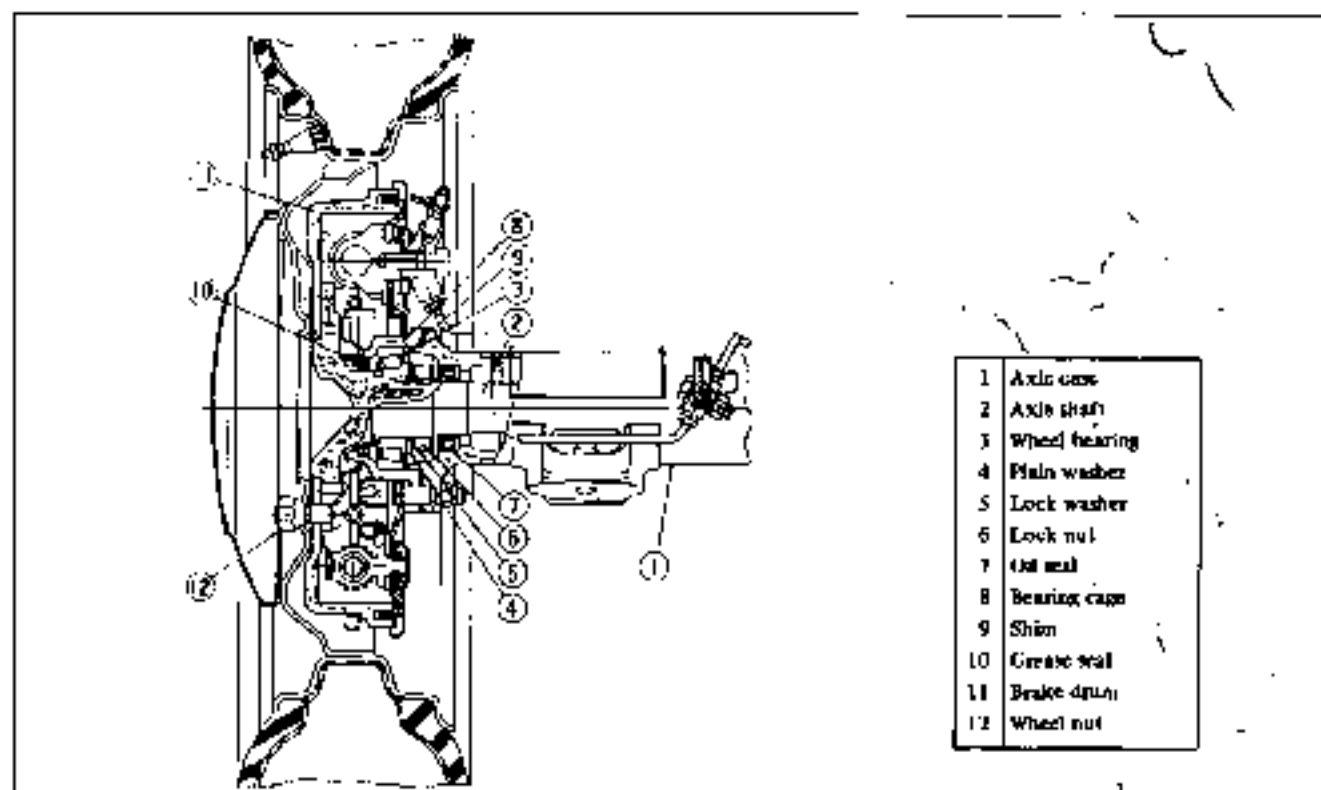


Fig. RA-1 Cross-sectional view of rear axle

DESCRIPTION

The rear axle is of a semi-floating type. The axle housing is a pressed steel "Banjo" type housing. It is light in weight and is sufficiently strong to withstand against any torsional and bending loads.

The rear wheel bearings are tapered-roller bearings. With those bearings, the rear axle supports heavy load and withstands against severe use. The rear axle receives thrust force through thrust block in the differential housing.

REMOVAL

1. Jack up vehicle and support it with stands.
2. Remove road wheel and brake drum,

3. Remove brake shoe and disconnect hand brake wire.

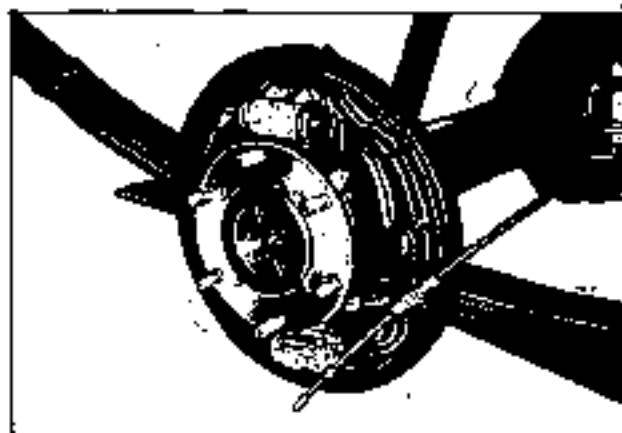


Fig. RA-2 Removing brake

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

BRAKE

BRAKE

CONTENTS

DESCRIPTION	BR- 1	Inspection	BR- 6
BRAKE PEDAL	BR- 1	Reassembly and reinstallation	BR- 8
Removal	BR- 1	REAR BRAKE	BR- 8
Inspection	BR- 1	Removal and disassembly	BR- 9
Reinstallation	BR- 1	Inspection	BR- 9
MASTER CYLINDER	BR- 2	Reassembly and reinstallation	BR-11
Removal	BR- 2	HAND BRAKE	BR-12
Disassembly	BR- 3	Removal	BR-12
Inspection	BR- 3	Inspection	BR-13
Reassembly	BR- 3	Installation	BR-13
Reinstallation	BR- 3	ADJUSTMENT	BR-13
BRAKE LINES	BR- 4	Brake pedal height	BR-13
Removal	BR- 4	Brake shoe clearance	BR-14
Inspection	BR- 4	Hand brake	BR-14
Reinstallation	BR- 4	Bleeding hydraulic system	BR-15
FRONT BRAKE	BR- 5	SERVICE DATA AND SPECIFICATIONS	BR-15
Removal and disassembly	BR- 6	TROUBLE DIAGNOSIS AND CORRECTIONS	BR-17

DESCRIPTION

The Datsun 521 series vehicles adopt a hydraulic brake. The front brake is of a duo-servo type, and rear brake is of a duo-servo type. The master cylinder is of a single type. The hand brake is of a mechanical type, which operates the rear wheels.

BRAKE PEDAL



Fig. BR-1 Brake pedal (right hand)

Removal

1. Unhook return spring ①.
2. Remove spring pin and clevis pin ② and separate push rod from pedal arm.
3. Remove fulcrum pin ③ and remove brake pedal arm.

Inspection

1. Check sliding parts for wear and return spring for weakness.
2. Check brake pedal for bending, warping and crack.
3. Check other parts for condition.

Reinstallation

1. Reinstall brake pedal in reverse sequence of removal.
2. Slightly and evenly coat multi-purpose grease (MIL-G-2108 or G10924) to sliding parts of fulcrum pin and clevis pin and hook portion of return spring.

BRAKE

Wheel cylinder inner diameter
20.64 mm (13/16 in)

Remove dust cover, and pull out piston head and piston assembly. For inspection and reassembly, refer to "Wheel cylinder of front brake."

Reassembly and reinstallation

Reassemble and reinstall rear brake in reverse sequence of disassembly and removal, noting the following matters. Refer to the notes for front brake.

1. Rear adjuster assembly is the same as front. Refer to the paragraph covering front adjuster assembly.

Adjuster sliding resistance

5 to 12 kg (11.0 to 26.5 lb)

2. When assembling toggle lever and after brake shoe assembly, adjust clearance between toggle lever and after brake shoe assembly to 0 to 0.3 mm (0 to 0.0118 in) with a properly selected toggle pin washer.

Part No.	Thickness mm (in)
44034 32200	2.0 (0.079)
44034 14800	2.3 (0.091)
44034 14801	2.6 (0.102)
44034 14802	2.9 (0.114)
441134 14803	3.2 (0.126)

3. Before installing brake shoe assemblies, apply brake grease to the following places:

- (1) Brake shoe installing grooves of adjuster and wheel cylinder
- (2) Extension link installing grooves
- (3) Lower surface of spring seat
- (4) Contact surfaces between brake disc and brake shoe assembly (Six places)

At this time, be sure not to coat brake grease to the surface of brake shoe.

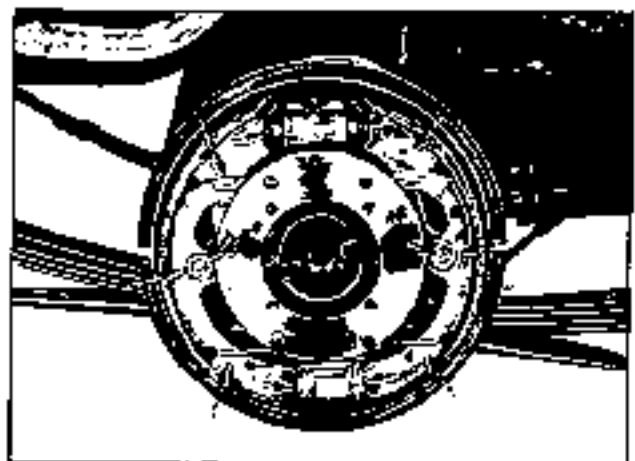


Fig. BR-18 Greasing points on rear brake

4. Tightening torque

Wheel cylinder 1.5 to 1.8 kg-m (10.8 to 13.0 ft-lb)

Connector bolt 1.7 to 2.0 kg-m (12.3 to 14.5 ft-lb)

Brake disc 4.0 to 5.4 kg-m (28.9 to 39.0 ft-lb)

5. Adjust brake shoe clearance and bleed brake system. Upon completion of the above adjustments, make sure that brake operates correctly and no brake fluid leaks.

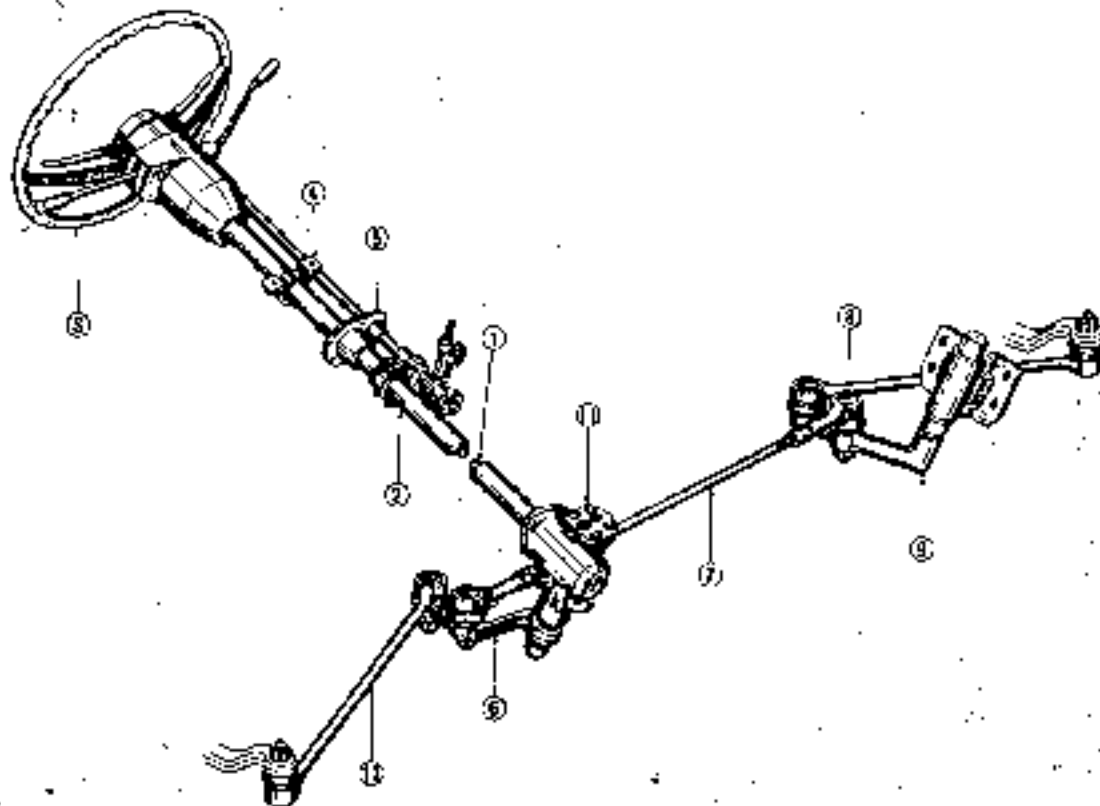
STEERING

STEERING

CONTENTS

DESCRIPTION	ST-1	INSPECTION AND REPAIR	ST-4
REMOVAL	ST-2	ASSEMBLY AND ADJUSTMENT	ST-4
DISASSEMBLY	ST-3	INSTALLATION	ST-6

DESCRIPTION



1	Steering column	7	Cross rod
2	Steering column jacket	8	Cross rod socket
3	Steering wheel	9	Jolter arm assembly
4	Column clamp	10	Steering rod
5	Post governor	11	Steering gear assembly
6	Steering gear arm		

Fig. ST-1 Structural view of steering mechanism

SERVICE MANUAL

DATSUN PICK-UP
MODEL 521 SERIES
CHASSIS & BODY



NISSAN MOTOR CO., LTD.
TOKYO, JAPAN

SECTION FE

ENGINE CONTROL, FUEL & EXHAUST SYSTEM

FE

ENGINE CONTROL SYSTEM..... FE- 1
FUEL AND EXHAUST PIPINGS FE- 5

CHASSIS

Three types of fuel tank; fuel tank for the S21, G521, N521 and GN521; fuel tank for the VS21, VN521 and UN521; and fuel tank for the PL521U are available

Tank capacity is 41 liters (10.8 US gal, 9.0 Imp gal) for all fuel tanks.

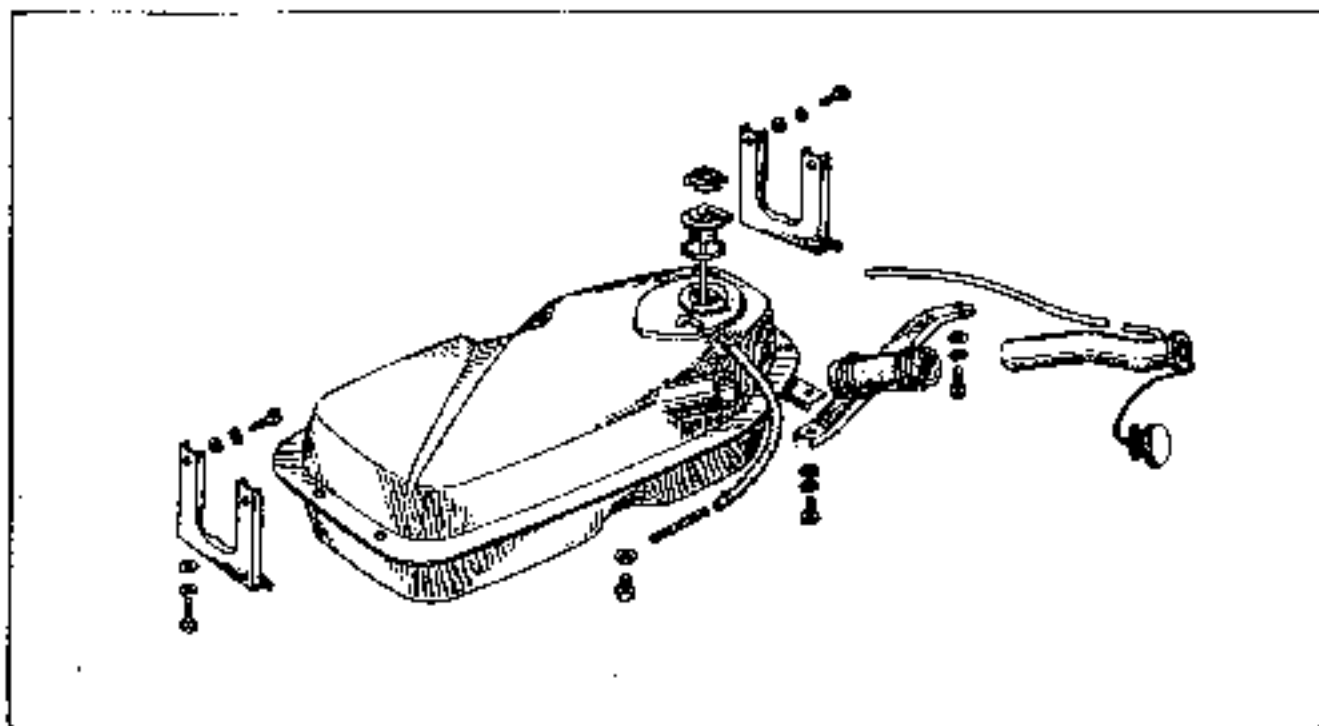


Fig. FE-18 Fuel tank (for VN521, VS21 and UN521)

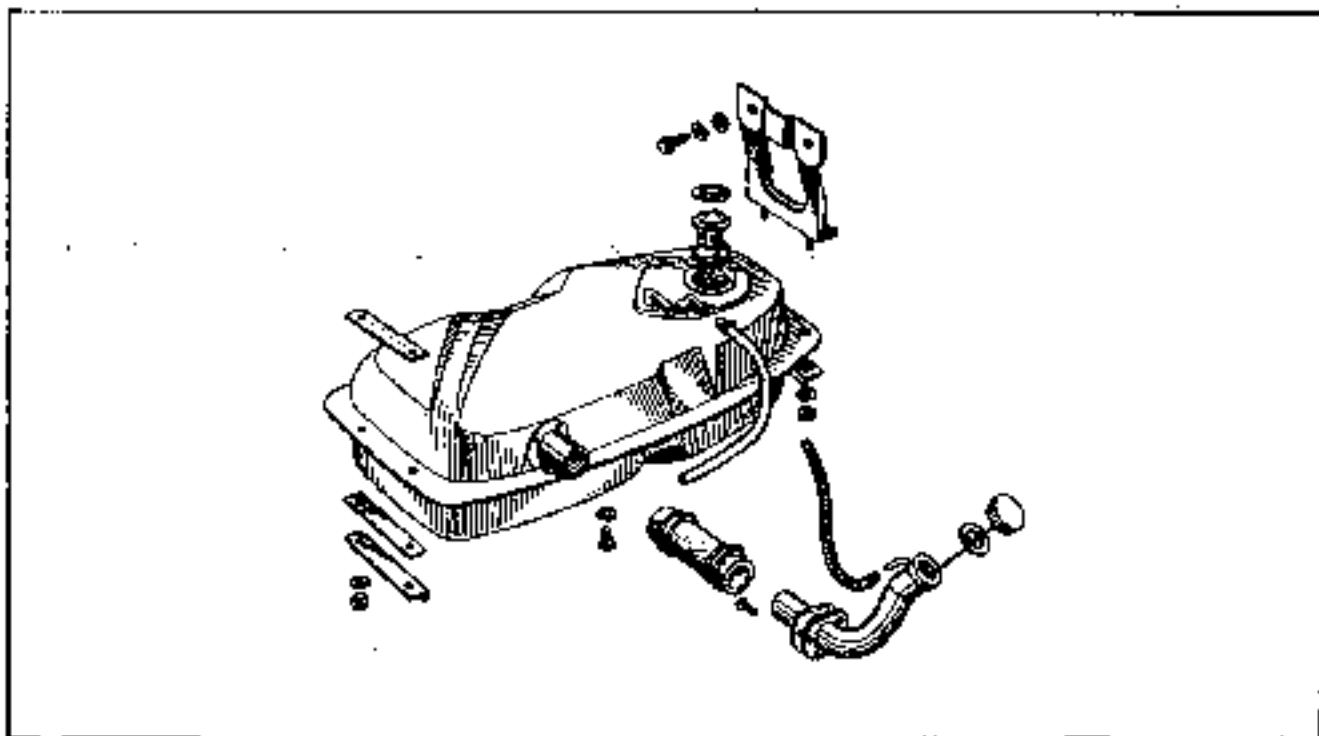


Fig. FE-19 Fuel tank (for S21, G521, GS21 and GN521)

BODY

DETACHING CAB BODY

1. Disconnect battery terminal from battery.
2. Disconnect speedometer cable.
3. Remove steering mechanism (steering wheel, steering post assembly, and remote control system.)



Fig. BF-7 Removing steering post clamp bolts

4. Disconnect front brake tube at hose and brake tube joint and rear brake tube at 4-way connector.

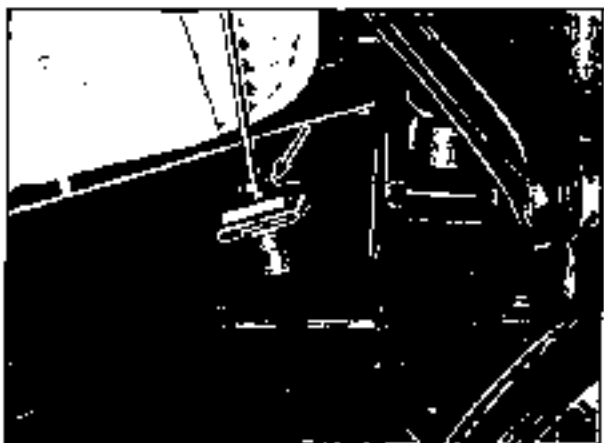


Fig. BF-8 Disconnect brake tube (front)



Fig. BF-9 Disconnect brake tube (rear)

5. Disconnect hand brake at front lever and cable joint.
6. Disconnect engine controls (such as choke wire, accelerator linkage, etc.), heater hose, engine compartment harness, instrument harness, and others between body and engine or chassis.
7. Remove six cab body mounting bolts.

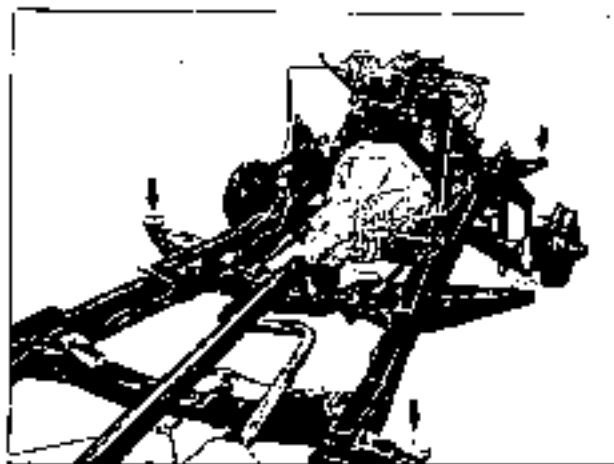


Fig. BF-10 Cab body mounting

8. Apply rope, wire or hanger to cab body, lift up cab body by the use of a hoist or chain block, and dismount cab body.

BODY

DOOR LOCK MECHANISM

Door lock is provided with a lock knob and is of an unfixed type in which lock knob does not lower while

door is open.

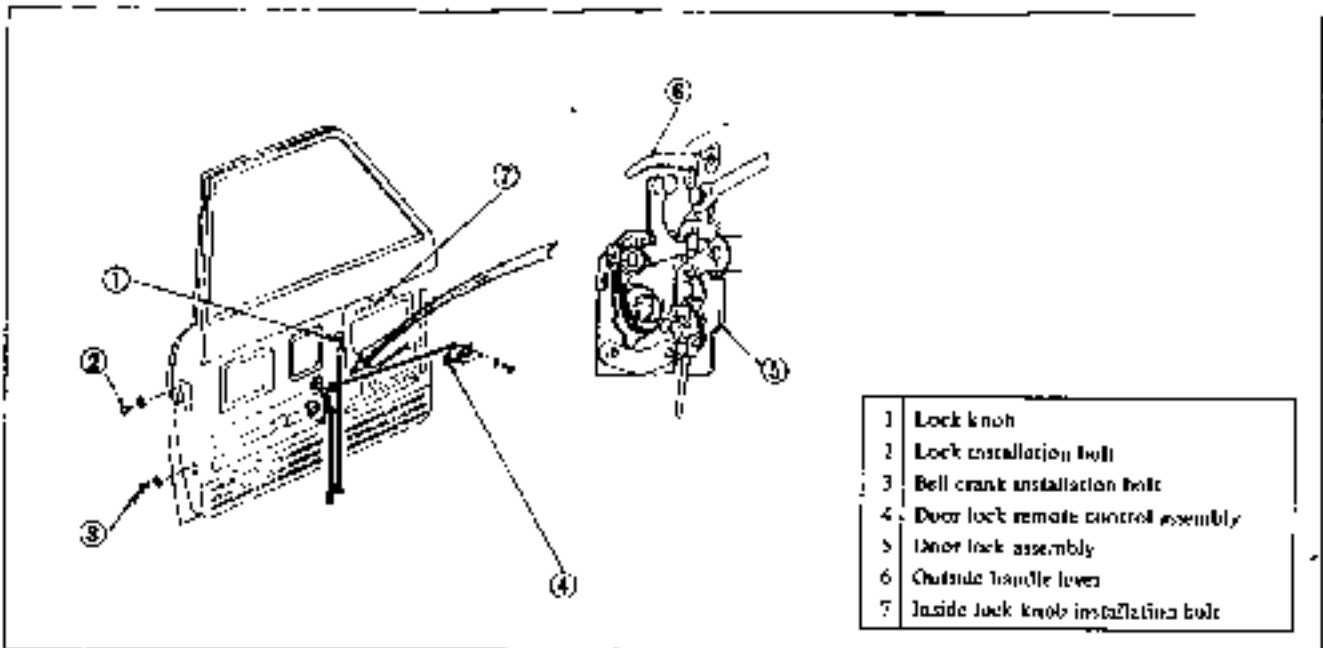
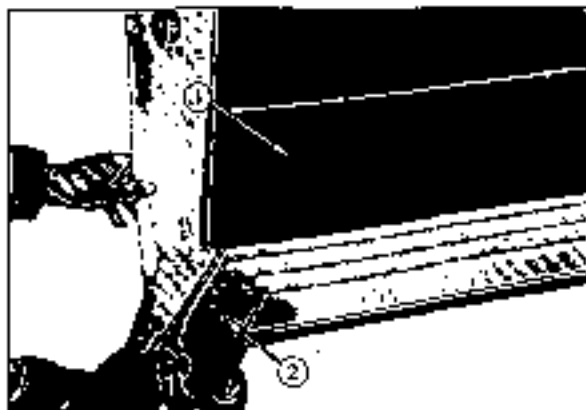


Fig. BF-36 Door lock mechanism

Removal

1. Detach inside handle and regulator handle, remove door finish installation clips with an ordinary screw driver, and separate door finish from door.

Note. Be careful not to scar or scratch panel and sealing screen.

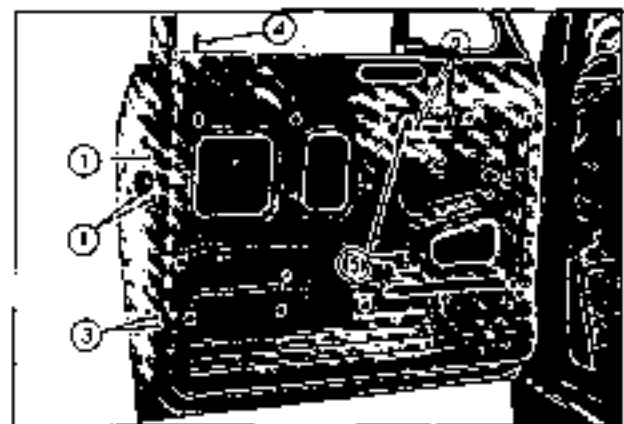


1 Door finish

2 Cloth

Fig. BF-37 Detaching door finish

2. Detach sealing screen carefully so that it is not damaged, remove lock installation bolts, lock knob bell crank installation bolts, and inside lock knob installation bolts, and remove lock knob.



1 Lock installation bolts

2 Inside lock knob installation bolts

3 Bell crank installation bolts

4 Knob lock

5 Closet nut installation bolts

Fig. BF-38 Removing lock assembly

3. Separate key cylinder and lock joint.

BODY

SEAT

Seat uses steel pipe frame and S-shape and square-shape springs, and urethane and vinyl leather are used for seat cover.

REMOVAL

Front seat (pick-up, double pick-up, and van)

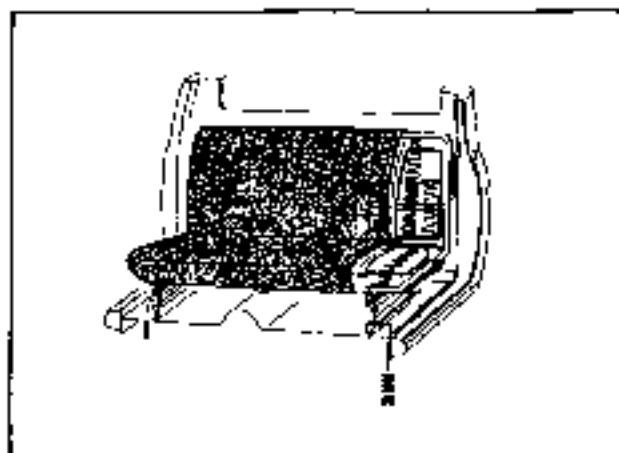
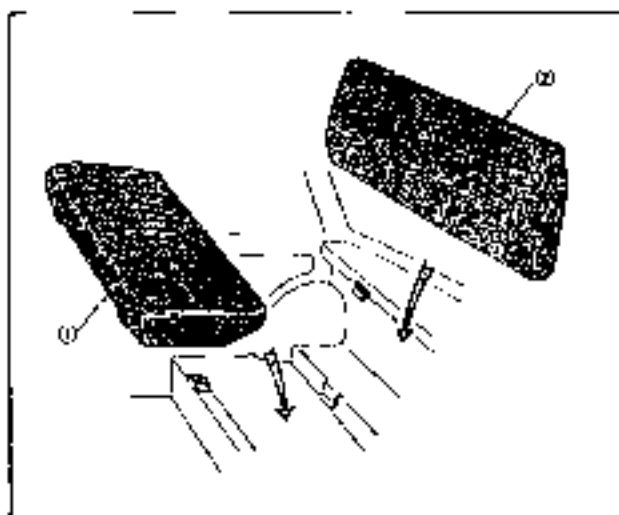


Fig. BF-64 Front seat

Remove four installation nuts screwed against seat riser. Seat can be separated.

Rear seat (double pick-up)



1 Seat cushion	2 Seat back
----------------	-------------

Fig. BF-65 Rear seat (double pick-up)

Rear seat (van)

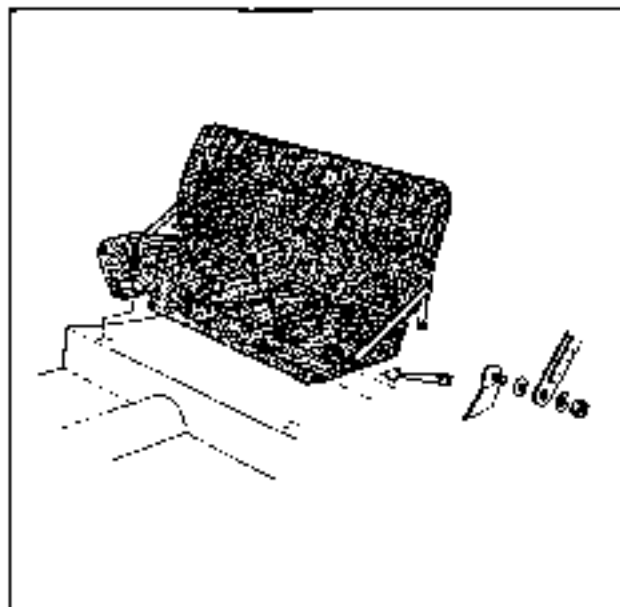


Fig. BF-66 Rear seat (van)

Remove front side hinge installation screws, separate seat back from brackets in both side wheel housing units, and remove rear seat as an assembly.

SEAT BELT (OPTION)



Fig. BF-67 Seat belt installing positions

LIGHTING SYSTEM

CONTENTS

HEADLAMP	BE- 8	TURN SIGNAL AND DIMMER	
Sealed beam unit replacement	BE- 8	COMBINATION SWITCH	BE-11
Headlamp adjustment	BE- 8	Removal	BE-11
FRONT PARKING AND TURN		LIGHTING SWITCH	BE-11
SIGNAL LAMP	BE- 9	Removal	BE-11
REAR COMBINATION LAMPS	BE-10	TROUBLE DIAGNOSES AND	
SIDE FLASHER (MAKER) LAMPS	BE-10	CORRECTIONS	BE-12
LICENSE PLATE ILLUMINATION		Headlamp	BE-12
LAMP	BE-10	Turn signal lamps	BE-13
BULB SPECIFICATIONS	BE-10	Tail lamp, stop lamp, license lamp,	
		back up lamp	BE-15

HEADLAMP

Sealed beam unit replacement

1. Remove wiring socket from the back of sealed beam unit.
2. Remove head lamp finisher.
3. Remove retaining ring by unscrewing three screws.

Note: Do not disturb two aiming adjusting screws.

4. Remove sealed beam unit.
5. Reinstall sealed beam unit in reverse sequence to removal.

Headlamp adjustment

For correct aiming adjustment, place vehicle on level floor, correct pressures of all tires, and remove all loads such as luggages and passengers except for standard equipment (spare tire and tools).

Adjust vertical and horizontal directions of head lamp respectively with adjusting screws located at the upper and side portions of headlight mounting ring.

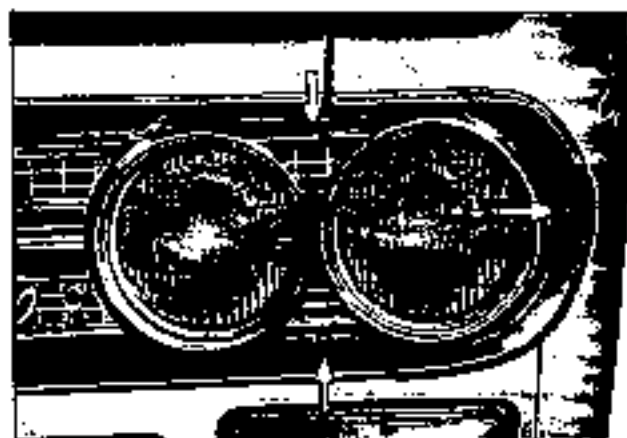


Fig. BE-10 Removing head lamp finisher

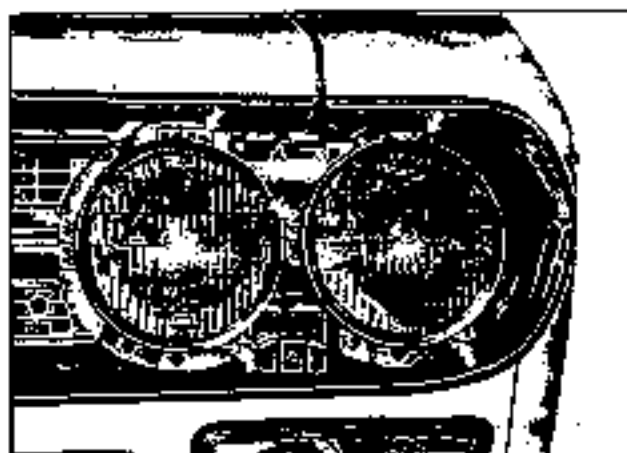


Fig. BE-11 Removing head lamp

METERS AND GAUGES

CONTENTS

<p>COMBINATION METER BE-18</p> <p style="padding-left: 20px;">Description BE-18</p> <p style="padding-left: 20px;">Replacement BE-19</p> <p>SPEEDOMETER BE-10</p> <p style="padding-left: 20px;">Replacement BE-10</p> <p>FUEL METER AND THERMOMETER BE-10</p> <p style="padding-left: 20px;">Description BE-10</p> <p style="padding-left: 20px;">Replacement BE-20</p>	<p>OIL PRESSURE WARNING LAMP BE-21</p> <p>IGNITION WARNING LAMP BE-21</p> <p>BULB SPECIFICATION BE-21</p> <p>TROUBLE DIAGNOSES AND CORRECTIONS BE-22</p> <p style="padding-left: 20px;">Speedometer BE-22</p> <p style="padding-left: 20px;">Thermometer and fuel meter BE-23</p> <p style="padding-left: 20px;">Oil pressure and ignition warning lamps BE-25</p>
--	--

COMBINATION METER

Description

The combination meter consists of three meters: speedometer, fuel meter, and thermometer; and five indicator lamps; oil pressure indicator lamp, ignition warning lamp, head lamp high beam pilot lamp, and turn signal pilot lamps (left and right). For illumination of the combination meter, four lamps are used. The combination meter uses a printed circuit board located behind the meter for wiring. With this construction, the combination meter can be simply connected to power supply through the 12-pole connector. See Figure BE-22.

1 Speedometer	6 Oil pressure warning lamp
2 Meter illumination lamp	7 Ignition warning lamp
3 Fuel meter	8 Head lamp upper beam pilot lamp
4 Thermometer	9 Regulator
5 Turn signal pilot lamp	10 12-pole connector

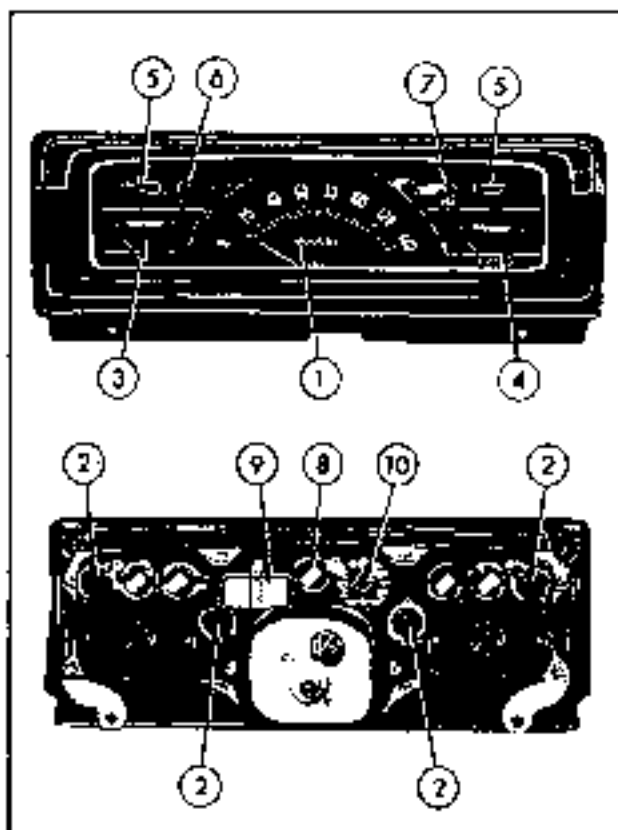


Fig. BE-22 Combination meter

BODY

- Remove installation nut, plain washer and spacer.
- Remove wiper switch from the back of instrument panel.

Washer nozzle adjustment

When washer nozzle is installed or when washer fluid is not sprayed properly, adjust nozzle direction so that fluid is sprayed in proper range. See Figure BE-33.

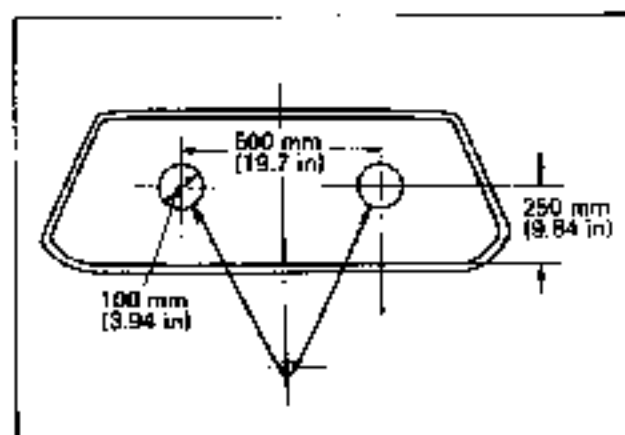


Fig. BE-33 Washer nozzle adjustment

Caution for windshield washer operation

Do not operate windshield washer continuously more than 30 seconds or without applying washer fluid. This often causes improper windshield washer operation. Normally, windshield washer should be operated 10 seconds or less at one time.

Specifications

Type	Interlocked parallel type
Angle	87 to 93° (Driver side) 96 to 102° (Assistant side)
Operating speed	High: 59 to 73 rpm Low: 41 to 51 rpm

TROUBLE DIAGNOSES AND CORRECTIONS

Condition	Probable cause		Corrective action
Windshield wiper does not operate	Motor	No current flows to motor due to Broken armature	Replace motor or armature
		Worn motor brush	Replace motor brush
		Motor is overheated when 4 to 5 minutes are elapsed due to Seized motor shaft	Replace motor
		Windshield wiper circuit fuse (15A) is easily fused due to Short-circuit, rare short-circuit, or humming of motor inside component	Replace motor or repair short-circuited part

BODY

TROUBLE DIAGNOSES AND CORRECTIONS

Condition	Probable cause	Corrective action
Hot air does not come out Motor does not operate	Open or short circuit of feed harness Defective switch Defective motor	Check and repair wiring harness Conduct continuity test and replace switch if necessary Replace motor
Fan cannot be rotated smoothly by hand	Motor journal is out of lubricant or stick	Lubricate journal Replace motor
Hot air does not come out nevertheless fan is rotating	Slow rotation of fan Loose fan installation	Replace motor Repair
Air temperature is low Hot water does not circulate	Defective water pump Bent or clogged of connecting hose Defective hot water cock Air is left in hose	Repair water pump Repair or clean piping Repair Purge air out of hose
Water temperature is too low	Defective thermostat	Replace thermostat
Water leakage from heater	Defective water hose Loose clipping of water hose Improper soldering of heater core	Replace water hose Retighten clip Solder leaking position
Defective defroster	Disconnected defroster hose Bent or broken defroster hose	Correct connection Correct or replace
Vibrating noise	Loose heater support Loose fixing screw	Tighten completely Retighten

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL