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SECTION 0

GENERAL, SPECIAL TOOLS AND SERVICE MATERIALS

CONTENTS

0-1. IDENTIFICATION NUMBER

VEHICLE IDENTIFICATION NUMBER

The vehicle identification number is on the left front piller.
Refer to below figure for detailed VIN cord information and its location.

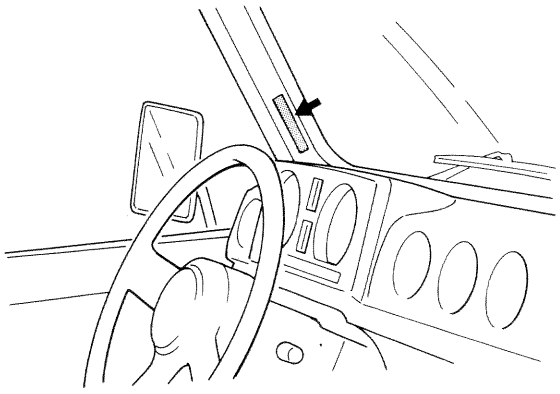
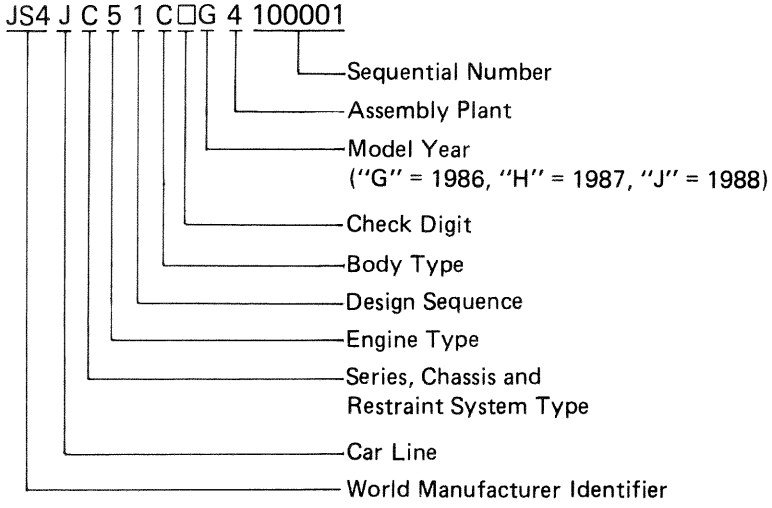


Fig. 0-1



ENGINE IDENTIFICATION NUMBER

The engine number is punched on the rear portion of the left-hand skirt part of cylinder block.

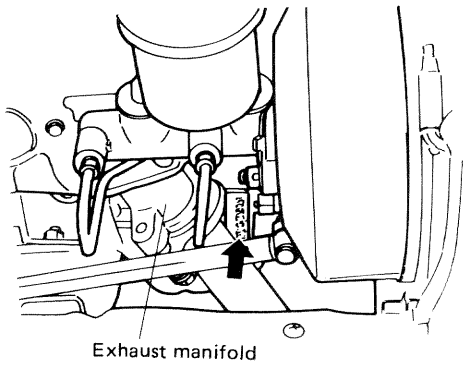


Fig. 0-2 Location of Engine No.

0-2. STANDARD SHOP PRACTICES

1. Protect painted surfaces of the body, and avoid staining or tearing seats. When working on fenders and seats, be sure to cover them up with sheets.
2. Disconnect negative terminal connection of the battery when working on any electrical part or component. This is necessary for avoiding electrical shocks and short-circuiting, and is very simple to accomplish: merely loosen wing nut on negative terminal and separate cable from terminal post.
3. In raising front or rear car end off the floor by jacking, be sure to put the jack against differential portion of axle housing.

NOTICE:
Don't get on the car, get under it or service it in this state.

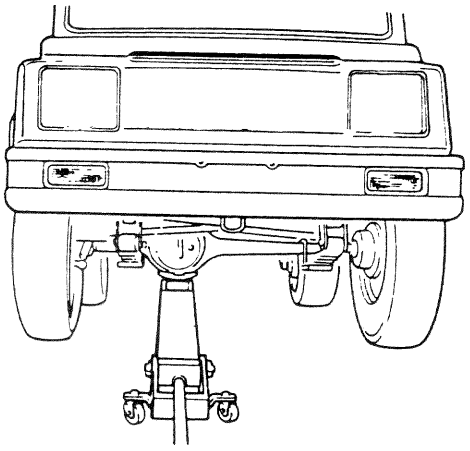


Fig. 0-3 Front Side

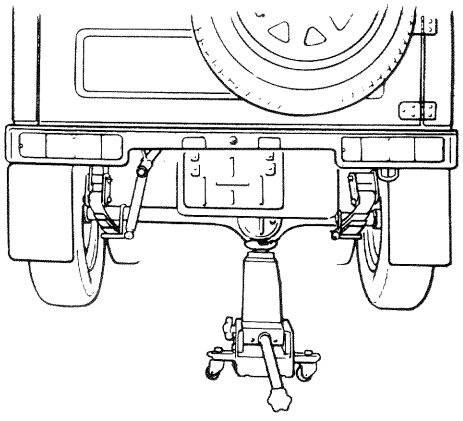


Fig. 0-4 Rear Side

4. To perform service with either front or rear car end jacked up, be sure to place safety stands under chassis frame so that body is securely supported. Refer to below figures for where to place safety stands. And then check to ensure that chassis frame does not slide on safety stands and the car is held stable for safety's sake.

IMPORTANT:
Place chocks against both right and left wheels on the ground from both front and rear.

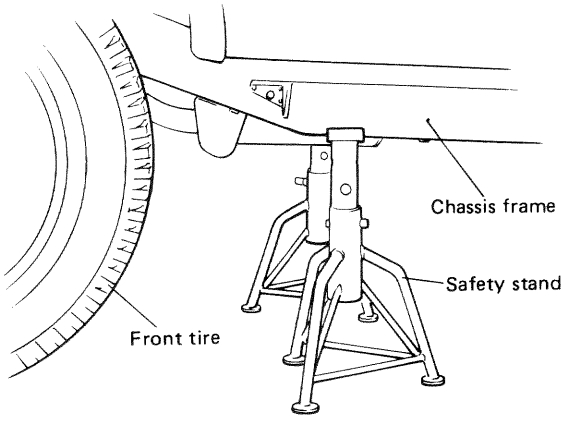


Fig. 0-5 Front Side

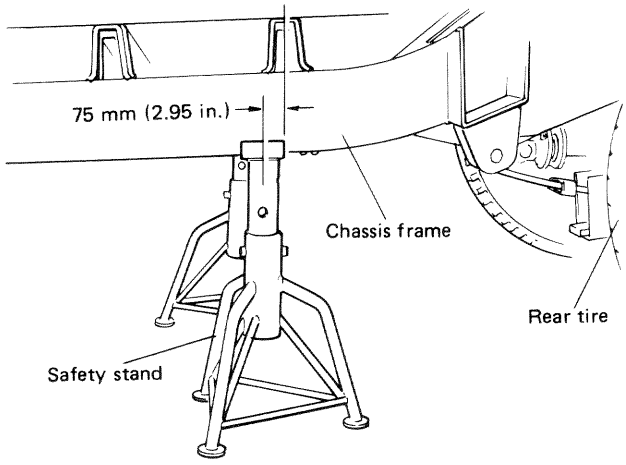


Fig. 0-6 Rear Side

5. Fig. 0-7 and 0-8 show how to lift the car by using a hoist.

IMPORTANT:

- **When using frame contact hoist, apply hoist as shown below (right and left at the same position). Lift up the car till 4 tires are a little off the ground and make sure that the car will not fall off by trying to move car body in both ways. Work can be started only after this confirmation.**
- **Before applying hoist to underbody, always take car balance throughout service into consideration. Car balance on hoist may change depending of what part to be removed.**
- **For suspention parts removal, follow previous steps 3 and 4.**
- **Make absolutely sure to lock hoist after car is hoisted up.**

When using frame contact hoist:

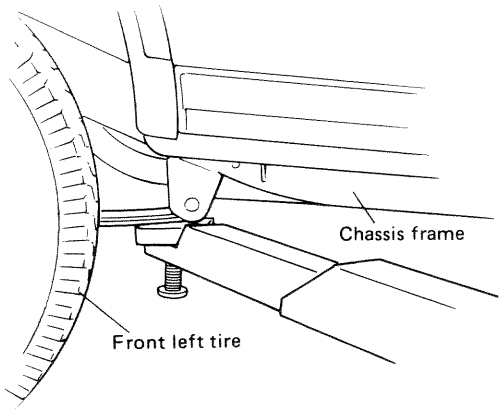


Fig. 0-7 Front Support Location

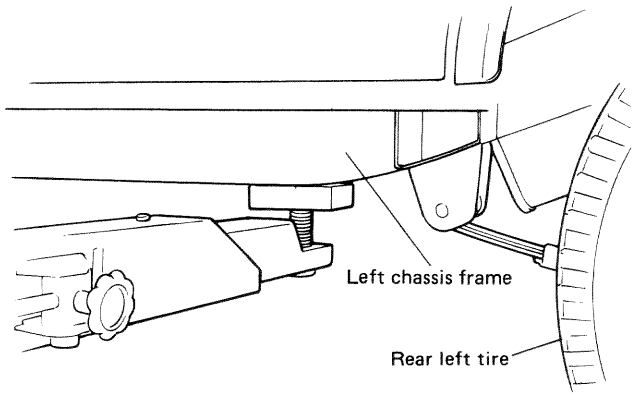


Fig. 0-8 Rear Support Location

6. Orderliness is a key to successful overhauling. Trays, pans and shelves are needed to set aside disassembled parts in groups or sets in order to avoid confusion and misplacement. This is particularly important for engine overhauling.
7. Have on hand liquid packing—SUZUKI BOND No. 1215 (99000-31110) – for ready use. This packing dope is an essential item to assure leak-free (water and oil) workmanship.
8. Each bolt must be put back to where it was taken from or for which it is intended. Do not depend on your hunch in tightening bolts for which tightening torque values are specified: be sure to use torque wrenches on those bolts.
9. It is advisable to discard and scrap gaskets and "O" rings removed in disassembly. Use new ones in reassembly, and try not to economize gaskets and "O" rings.
10. Use of genuine SUZUKI parts is imperative. Use of imitation parts is a big gamble on safety and performance. Use genuine SUZUKI parts and live up to the trust your customer places on you.
11. Special tools save time and ensure good workmanship: They are available from SUZUKI. Use them where their use is specified. Moreover, your own safety is assured by the use of special tools in many of the disassembly and reassembly steps.

12. Refer to the contents of this MANUAL as often as practical, and do each job properly as prescribed.

NOTICE:
Engine cylinders are identified by numbers. See Fig. 0-9. Counting from the front end, the cylinders are referred to as No. 1, No. 2, No. 3 and No. 4 cylinders.

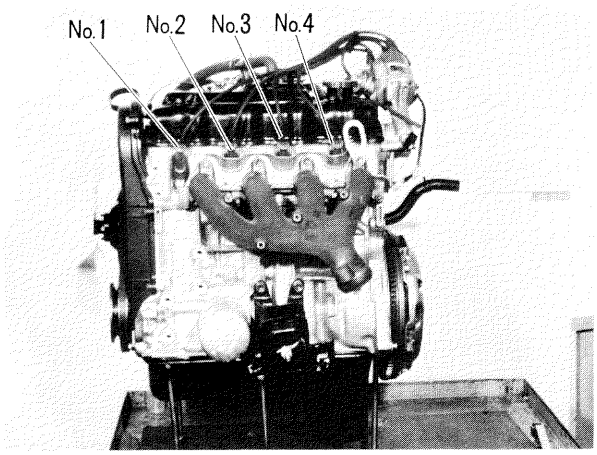
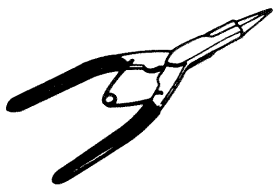
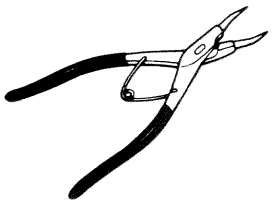
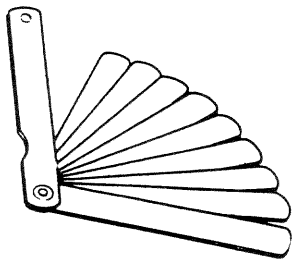
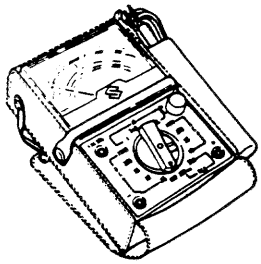
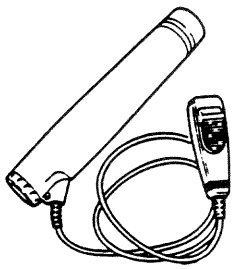
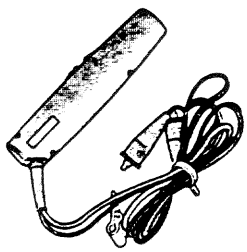
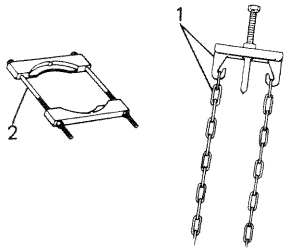
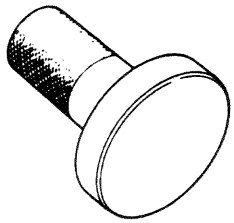
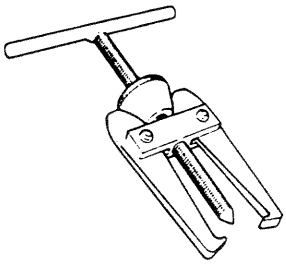
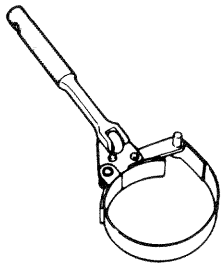
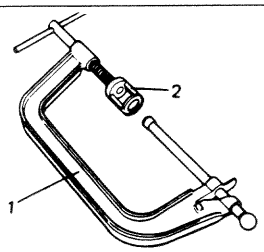
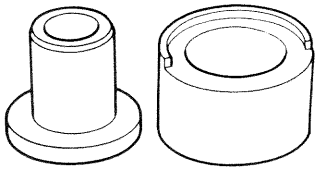
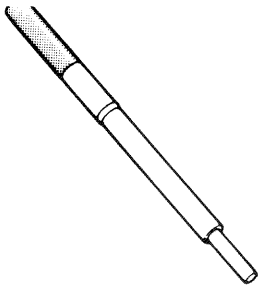


Fig. 0-9 Engine Cylinder Numbers

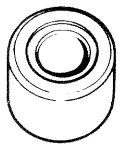
0-3. SPECIAL TOOLS

Special tools assure three things: 1) improved workmanship; 2) speedy execution of jobs for which they are meant; and 3) protection of parts and components against damage. Here are the special tools prescribed for this Model:

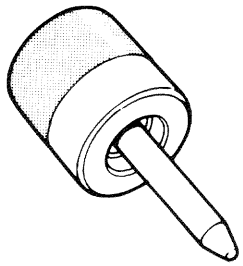
 09900-06107 Snap ring plier (opening type)	 09900-06108 Snap ring plier (closing type)	 09900-20803 Thickness gauge	 09900-25002 Pocket tester
 09900-27311 Timing light (Dry cell type)	 09900-27301 Timing light (D.C. 12V)	 1. 09927-18410 Universal puller 2. 09921-57810 Bearing remover	 09913-75510 Bearing installer
 09913-60910 Bearing puller	 09915-47310 Oil filter wrench	 1. 09916-14510 Valve lifter 2. 09916-48210 Valve lifter attachment	 09926-48010 Universal joint assembler



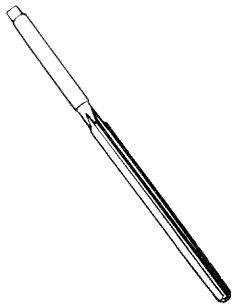
09916-44511
Valve guide remover



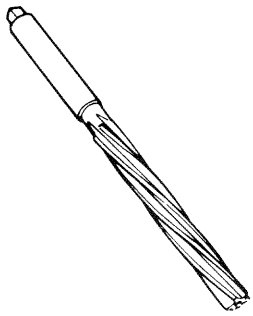
09917-88210
Valve guide installer



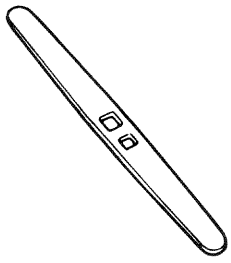
09917-98210
Valve stem seal installer



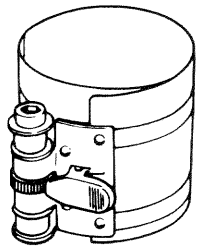
09916-34520
Reamer (7 mm)



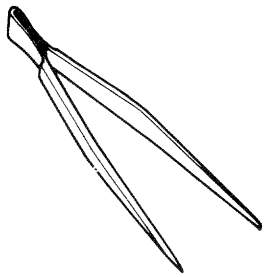
09916-37310
Reamer (12 mm)



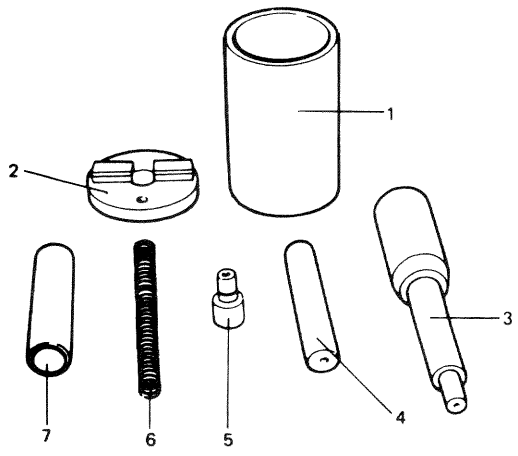
09916-34541
Reamer handle



09916-77310
Piston ring compressor

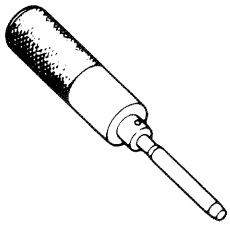


09916-84510
Forceps

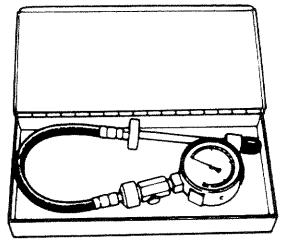


09910-38210
Piston pin remover and installer

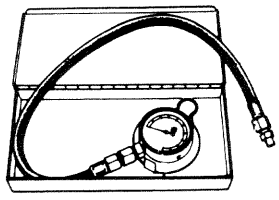
1. Base
2. Base cap
3. Driver handle
4. Piston pin guide for installation
5. Piston pin guide for removal
6. Spring
7. Spring guide



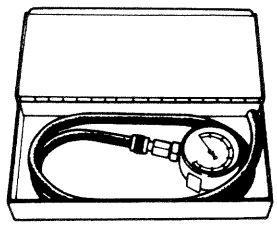
09916-57321
Valve guide installer handle



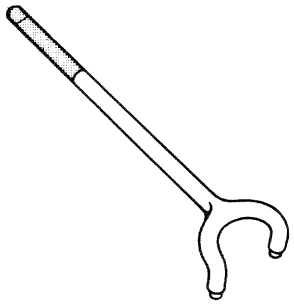
09915-64510
Compression gauge



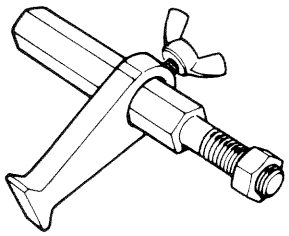
09915-77310
Oil pressure gauge



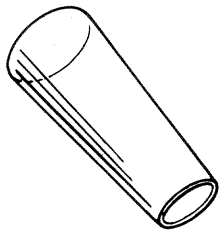
09915-67310
Vacuum gauge



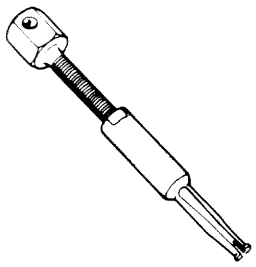
09917-68210
Camshaft lock holder



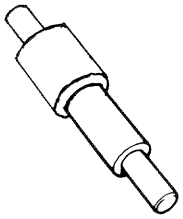
09924-17810
Flywheel holder



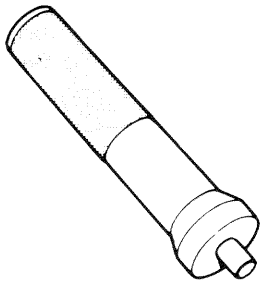
09926-18210
Oil seal guide (Vinyl resin)



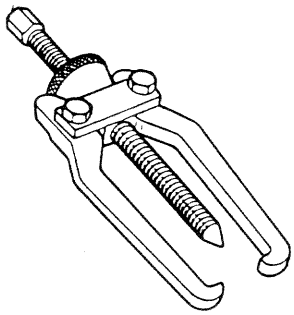
09917-58010
Bearing remover
(for input shaft bearing)



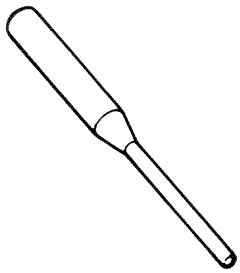
09923-38220
Clutch center guide



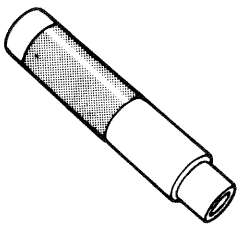
09925-98210
Input shaft bearing
installer



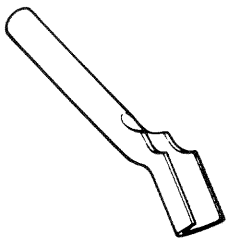
09913-65135
Transmission and transfer
bearing and gear remover



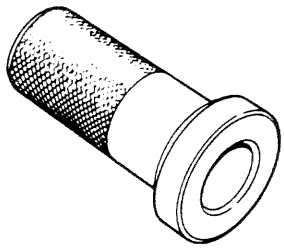
09922-85811
Spring pin remover
(4.5 mm)



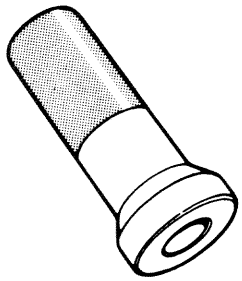
09925-18010
Transmission gear, bush
and bearing installer



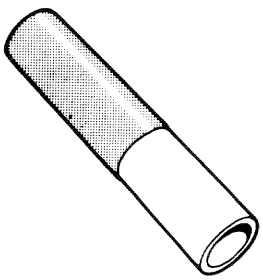
09925-48210
Clutch release bush
remover



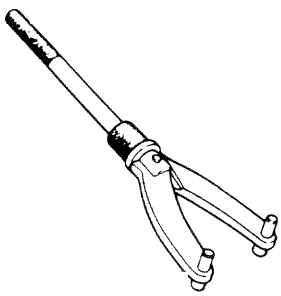
09913-75810
Transfer bearing installer



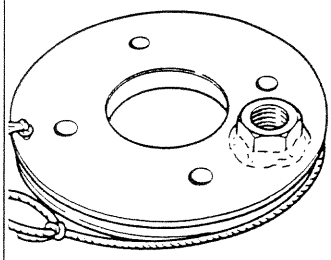
09913-76010
Transfer bearing installer



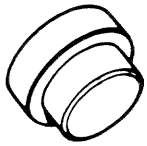
09913-84510
Transfer bearing installer



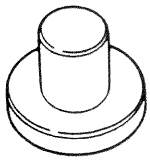
09930-40113
- Transfer flange lock holder
- Differential side bearing adjuster



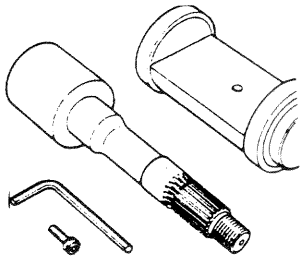
09922-75221
- Differential bearing preload checking tool



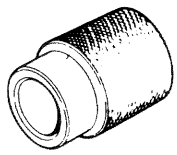
09926-58010
Bearing puller attachment (transfer)



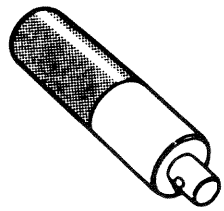
09913-85230
Differential side bearing remover jig



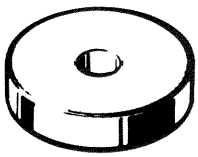
09926-78310
Differential bevel pinion mounting dummy



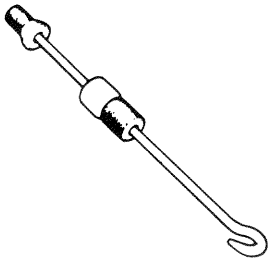
09940-53111
Differential side bearing installer



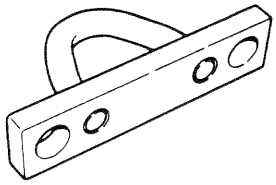
09924-74510
Bearing installer attachment



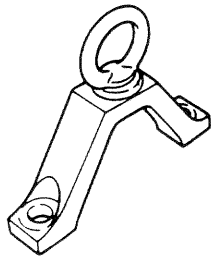
09926-68310
Differential pinion bearing installer



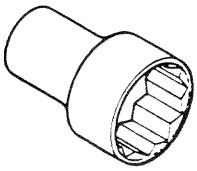
09942-15510
Sliding hammer



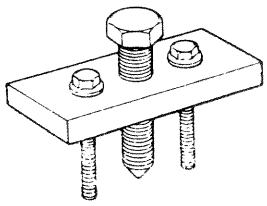
09922-66010
Rear axle shaft remover



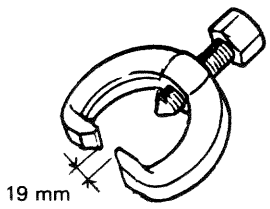
09943-35511
Brake drum remover



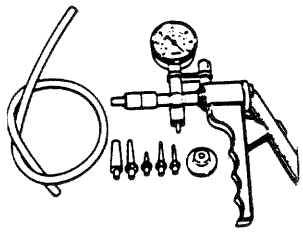
09941-58010
50 mm socket wrench



09944-38210
Steering wheel remover

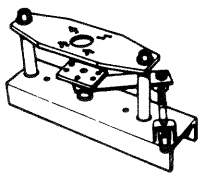


09913-65210
Tie-rod end remover

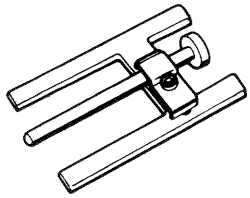


09917-47910
Vacuum pump gauge

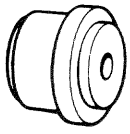
09950-78210
Flare nut wrench (10 mm)



09950-88210
Booster overhaul tool set



09950-98210
Booster piston rod gauge



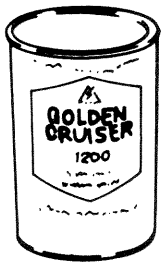
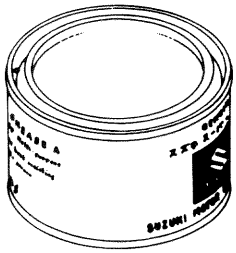
No. 1
09951-08210

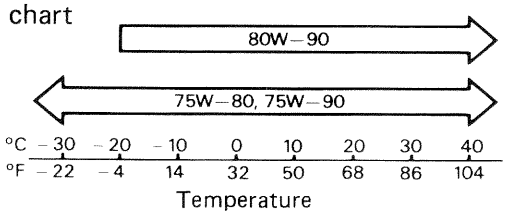
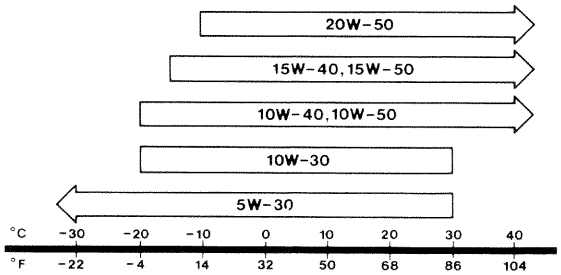
No. 2
09951-18210

Booster No. 2 body
Oil seal remover &
Installer No. 1, No. 2

0-4. REQUIRED SERVICE MATERIALS

The materials listed below are needed for maintenance work on these cars, and should be kept on hand for ready use. In addition, such standard materials as cleaning fluids, lubricants, etc., should also be available. Methods and time of use are discussed in the text of this manual on later pages.

Ref. No.	Material		Use
1.	GOLDEN CRUISER 1200 "Anti-freeze and Summer Coolant" (99000-24120)		Additive to engine cooling system for improving cooling efficiency and for protection of wet walls against rusting.
2.	SUZUKI SUPER GREASE A (99000-25010)		• For locations indicated in the section dealing with the starter motor. • Clutch release bearing retainer. • Clutch release shaft bushing. • Transmission oil seal. • Differential oil seal. • Wheel bearings. • Gear shifting control lever bushing & seat. • Door window regulators. • For other locations specifically indicated in the text of this manual.
3.	SUZUKI GREASE SUPER H (99000-25120)		Special grease intended for use on constant velocity joints.
4.	SUZUKI BOND NO. 1215 (99000-31110)		• For top and bottom mating faces of transmission case. • For other locations specifically indicated in the text of this manual.

5.	CHASSIS GREASE	• For grease nipples on propeller shafts. • For propeller shaft splines.
6.	GEAR OIL Oil Grade <table><tr><td colspan="2"></td><td>API GRADE</td></tr><tr><td colspan="2">Transmission</td><td rowspan="2">GL-4 or 5</td></tr><tr><td colspan="2">Transfer</td></tr><tr><td rowspan="2">Differential</td><td>Front</td><td rowspan="2">GL-5</td></tr><tr><td>Rear</td></tr></table> Viscosity chart SAE 	• Transmission case 1.3 ltr. (2.7/2.3 US/Imp. pt.) • Transmission gear and bearing • Transfer case 0.8 ltr. (1.7/1.4 US/Imp. pt.) • Steering gear box • Differential gear box (Hypoid gear oil) Rear 1.5 ltr. (3.2/2.6 US/Imp. pt.) Front 2.0 ltr. (4.2/3.5 US/Imp. pt.)
7.	SEALANT (99000-31150)	• For mating surfaces of engine oil pan and cylinder block.
8.	4-STROKE ENGINE OIL It is recommended to use engine oil of SE, or SF class. **Proper Engine Oil Viscosity Chart** 	• For engine oil pan: (For periodical oil change) • Crank journal bearings and thrust plate. • Connecting-rod big-end and small-end bearings. • Camshaft journals. • Rocker shafts. • Oil pump gears. • Pistons and piston rings. • Engine oil seals. • Valve stems. • Accelerator and clutch cables. • Parking brake cable. • Accelerator, brake and clutch pedal shafts. • Door locks and hinges. • Distributor gear.

9.	SEALING COMPOUND "CEMEDINE" 366E (Water tight sealant) (99000-31090) 180 mℓ		• King pin shim face. • For steering knuckle (rear axle housing) and brake packing plate mating surface. • For other locations specifically indicated in the text of this manual.
10.	THREAD LOCK CEMENT SUPER 1333B (99000-32020)		• Transmission reverse gear shift rim bolt. • Gear shift lever locating bolt. • Differential drive bevel gear bolt.
11.	BRAKE FLUID "DOT3"		• To fill master cylinder reservoir. • To clean and apply to inner parts of master cylinder, caliper and wheel cylinder when they are disassembled.
12.	SILICONE GREASE (Furnished in repair kit)		• To apply to brake booster inner parts where application is instructed in this manual.
13.	THREAD LOCK CEMENT "1342" (99000-32050)		• King pin bolt
14.	SUZUKI SUPER GREASE I (99000-25210)		• Transmission input shaft

SECTION 1

PERIODIC MAINTENANCE SERVICE

CONTENTS

Interval: This interval should be judged by odometer reading or months, whichever comes first.																	
	miles (x 1,000)	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120
	km (x 1,000)	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
	months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
ENGINE																	
1. Fan (Water pump) drive belt		–	–	–	I	–	–	–	R	–	–	–	I	–	–	–	R
2. Camshaft timing belt		–	–	–	–	–	–	–	I	–	–	–	I	–	–	–	I
3. Valve lash (clearance)		–	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
4. Engine oil and oil filter		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
5. Cooling system hoses and connections		–	–	–	**I	–	–	–	I	–	–	–	I	–	–	–	I
6. Engine coolant		–	–	–	**R	–	–	–	R	–	–	–	R	–	–	–	R
7. Exhaust pipes and mountings		–	–	–	**I	–	–	–	I&(R)	–	–	–	I	–	–	–	I&(R)
CRANKCASE EMISSION CONTROL																	
8. Crankcase ventilation hoses and PCV valve		–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	R
EXHAUST AND FUEL EVAPORATIVE EMISSION CONTROL																	
9. Oxygen sensor		–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	R
10. Charcoal canister storage system		–	–	–	–	–	–	–	I	–	–	–	–	–	–	–	I
11. Fuel vapor storage system, hoses and connections		–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	R
ELECTRICAL SYSTEM																	
12. Wiring harness and connections		–	–	–	–	–	–	–	I	–	–	–	–	–	–	–	I
IGNITION SYSTEM																	
13. Spark plugs		–	–	–	R	–	–	–	R	–	–	–	R	–	–	–	R
14. Distributor cap and rotor		–	–	–	–	–	–	–	I	–	–	–	–	–	–	–	I
15. Ignition wiring		–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	R
16. Ignition timing		–	–	–	–	–	–	–	I	–	–	–	–	–	–	–	I
17. Distributor advance		–	–	–	–	–	–	–	I	–	–	–	–	–	–	–	I

NOTES:
"R": Replace or change
"I" : Inspect and correct or replace if necessary
"T": Tighten to the specified torque
"L": Lubricate

- *Item 7 (R) is applicable to the exhaust mounting rubber only.*
- *Item 5 **I, Item 6**R and Item 7 **I are recommended maintenance items.*

Interval: This interval should be judged by odometer reading or months, whichever comes first.																	
	miles (x 1,000)	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120
	km (x 1,000)	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
	months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
FUEL																	
18. Fuel tank cap		–	–	–	**I	–	–	–	R	–	–	–	I	–	–	–	R
19. Air cleaner filter element		–	–	–	R	–	–	–	R	–	–	–	R	–	–	–	R
20. Thermostatically controlled air cleaner system		–	–	–	I	–	–	–	I	–	–	–	I	–	–	–	I
21. Choke system		–	–	–	I&L	–	–	–	I&L	–	–	–	I&L	–	–	–	I&L
22. Fuel filter		–	–	–	**R	–	–	–	R	–	–	–	R	–	–	–	R
23. Fuel lines and connections		–	–	–	**I	–	–	–	R	–	–	–	I	–	–	–	R
*24. Idle speed		–	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
CHASSIS AND BODY																	
25. Clutch		–	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
26. Brake discs and pads (front) Brake drums and shoes (rear)		–	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
27. Brake hoses and pipes		–	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
28. Brake fluid		–	I	–	I	–	I	–	R	–	I	–	I	–	I	–	R
29. Brake pedal		–	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
30. Brake lever and cable		–	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
31. Tires		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
32. Wheel discs and free wheeling hubs (if equipped)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
33. Steering knuckle oil seals		–	–	R	–	–	R	–	–	R	–	–	R	–	–	R	–
34. Wheel bearings		–	I	–	*I	–	I	–	*I	–	I	–	*I	–	I	–	*I
35. Shock absorbers		I	I	–	I	–	I	–	I	–	I	–	I	–	I	–	I
36. Propeller shafts		–	I&L	–	I&L	–	I&L	–	I&L	–	I&L	–	I&L	–	I&L	–	I&L
37. Transmission, transfer and differential oil		R	I	I	R	I	I	I	R	I	I	I	R	I	I	I	R
38. Leaf springs		–	–	–	I	–	–	–	I	–	–	–	I	–	–	–	I
39. Bolts and nuts		T	T	–	T	–	T	–	T	–	T	–	T	–	T	–	T
40. Steering system		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
41. Door hinges		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

NOTES:

"R": Replace or change
"I" : Inspect and correct or replace if necessary
"T": Tighten to the specified torque
"L": Lubricate

- *Item 18 **I, Item 22 **R and Item 23 **I are recommended maintenance items.*
- *Item 23 R is applicable to the fuel hose and clamp only.*
- *Item *24 is recommended maintenance item.*
- *Item 34 *I is applicable to not only rattled wear but also their grease.*

MAINTENANCE RECOMMENDED UNDER SEVERE DRIVING CONDITIONS

If the car is usually used under the conditions corresponding to any severe condition code given below, it is recommended that applicable maintenance operation be performed at the particular interval as given in the below chart.

Severe condition code

A – Towing a trailer
B – Repeated short trips
C – Driving on rough and/or muddy roads
D – Driving on dusty roads
E – Driving in extremely cold weather and/or salted roads
F – Repeated short trips in extremely cold weather

Severe Condition Code	Maintenance	Maintenance Operation	Maintenance Interval
A – – D E F	Engine oil and oil filter	R	Every 3 750 miles (6 000 km) or 3 months
A B C – E –	Exhaust pipes and mountings	I	Every 7 500 miles (12 000 km) or 6 months
– – – D – –	Air cleaner filter element *1	I	Every 3 750 miles (6 000 km) or 3 months
		R	Every 15 000 miles (24 000 km) or 12 months
– – – – E –	Choke system (Carburetor shafts)	I & L	Every 7 500 miles (12 000 km) or 6 months
– – – – E –	Distributor cap and Ignition wiring *2	I	Every 15 000 miles (24 000 km) or 12 months
A B C D – –	Brake discs and pads (Front) Brake drums and shoes (Rear)	I	Every 7 500 miles (12 000 km) or 6 months
A B C – – –	Propeller shafts	I & L	Every 7 500 miles (12 000 km) or 6 months
A – C – – –	Transmission, transfer and differential oil	R	Every 15 000 miles (24 000 km) or 12 months
– – C – – –	Leaf springs	I	Every 15 000 miles (24 000 km) or 12 months
– – C – – –	Bolts and nuts on chassis	T	Every 7 500 miles (12 000 km) or 6 months
– – C – – –	Steering wheel free play, gear box oil and linkage	I	Every 3 750 miles (6 000 km) or 3 months
– – C – E –	Steering knuckle oil seals	R	Every 15 000 miles (24 000 km) or 12 months

NOTES:

I – Inspect and correct or replace if necessary
R – Replace or change
T – Tighten to the specified torque
L – Lubricate

**1 Inspect more frequently if the vehicle is used under dusty conditions.*
**2 In areas where road salt is used, inspect and clean the distributor cap and ignition wiring more frequently.*

1-2. ENGINE

1. WATER PUMP BELT INSPECTION AND REPLACEMENT

WARNING:
All inspection and replacement are to be performed with ENGINE NOT RUNNING.

[INSPECTION]

1) Disconnect negative battery lead at battery.
2) Inspect belt for cracks, cuts, deformation, wear and cleanliness. If any defect, replace. Check belt for tension. The belt is in proper tension if it deflects 6 to 9 mm (0.24 – 0.35 in.) under thumb pressure (about 10 kg or 22 lb.).

Belt tension specification	6 – 9 mm (0.24 – 0.35 in.) as deflection

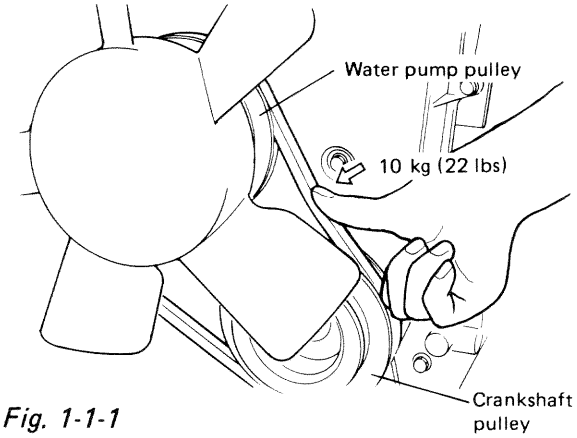


Fig. 1-1-1

3) If the belt is too tight or too loose, adjust it to specification by adjusting alternator position.

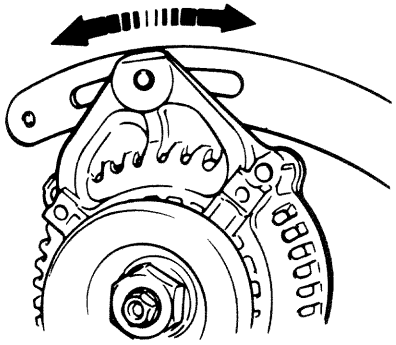


Fig. 1-1-2

4) Tighten alternator adjusting bolt and pivot bolts.
5) Connect negative battery lead to battery.

[REPLACEMENT]

1) Disconnect negative battery lead at battery.
2) Loosen alternator adjusting bolt and pivot bolts.
3) Replace water pump belt.
4) Adjust belt tension to specification and tighten alternator adjusting bolt and pivot bolts.
5) Connect negative battery lead to battery.

2. CAMSHAFT TIMING BELT INSPECTION

1) Disconnect negative battery lead at battery.
2) Loosen fan drive belt, and remove 4 bolts securing radiator shroud panel and 4 nuts securing engine cooling fan & clutch. Then remove radiator shroud and cooling fan & clutch at the same time.

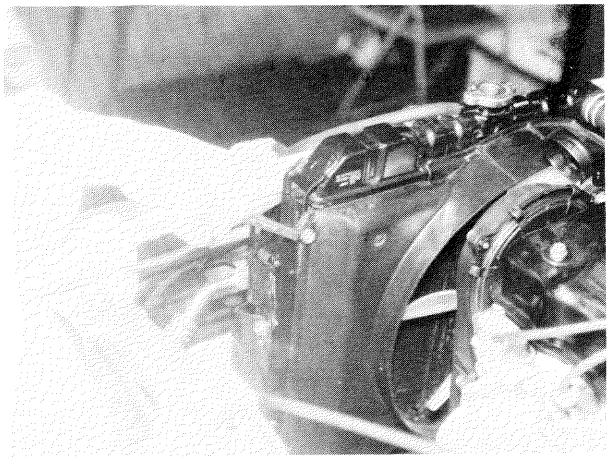


Fig. 1-2-1

3) Remove water pump belt and pump pulley.
4) Remove crankshaft pulley by removing 4 pulley bolts. The crankshaft timing belt pulley bolt at the center need not be loosened.

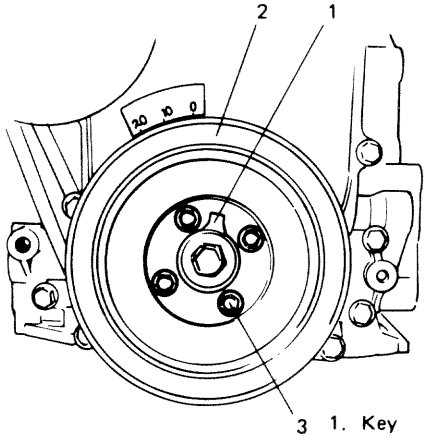
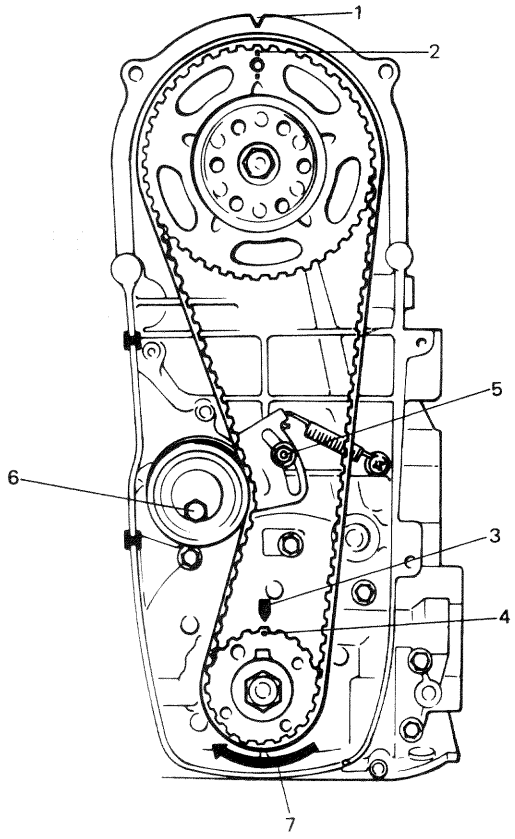


Fig. 1-2-2

1. Key
2. Crankshaft pulley
3. Pulley bolt

5) Remove timing belt outside cover. Inspect the belt for damage or wear. When any damage or wear is found on the belt, replace it.
   If belt replacement is necessary, be sure to install the belt properly, referring to p. 3-48 to p. 3-51 for installation procedure.
6) Remove cylinder head cover and loosen all valve adjusting screws all the way to permit free rotation of camshaft.
7) Turn crankshaft clockwise and align 4 marks as shown.
   Loosen tensioner bolt and nut but do not remove.



1. "V" mark
2. Timing mark
3. Arrow mark
4. Punch mark
5. Tensioner nut
6. Tensioner bolt
7. Turning direction

Fig. 1-2-3

8) To allow belt to be free of any slack, turn crankshaft clockwise fully twice. After removing belt slack, tighten tensioner nut to 9 – 12 N·m (0.9 – 1.2 kg-m, 7.0 – 8.5 lb-ft) first and then tensioner bolt to 24 – 30 N·m (2.4 – 3.0 kg-m, 17.5 – 21.5 lb-ft).
   Then confirm again that 4 marks are matched.
9) Adjust valve lash to specification referring to 3-53 of SECTION 3.
10) Install cylinder head cover and torque bolt to specification. (Refer to p. 3-58 for torque data).
11) Install timing belt outside cover and torque bolts and nut to specification. (Refer to p. 3-58 for torque data.)
12) Install crankshaft pulley and torque bolts to specification. (Refer to p. 3-58 for torque data.)
13) Install water pump pulley and belt.
14) Install radiator shroud and cooling fan & clutch.
15) Adjust water pump belt tension to specification. (Refer to p. 1-5)
16) Connect negative battery lead to battery.

3. VALVE LASH INSPECTION

1) Remove cylinder head cover.
2) Inspect intake and exhaust valve lash and adjust as necessary.

		When cold (Coolant temperature is 15 – 25°C or 59 – 77°F)	When hot (Coolant temperature is 60 – 68°C or 140 – 154°F)
Valve lash (gap A) specification	Intake	0.13 - 0.17 mm (0.0051 - 0.0067 in)	0.23 - 0.27 mm (0.009 - 0.011 in)
	Exhaust	0.16 - 0.20 mm (0.0063 - 0.0079 in)	0.26 - 0.30 mm (0.0102 - 0.0118 in)

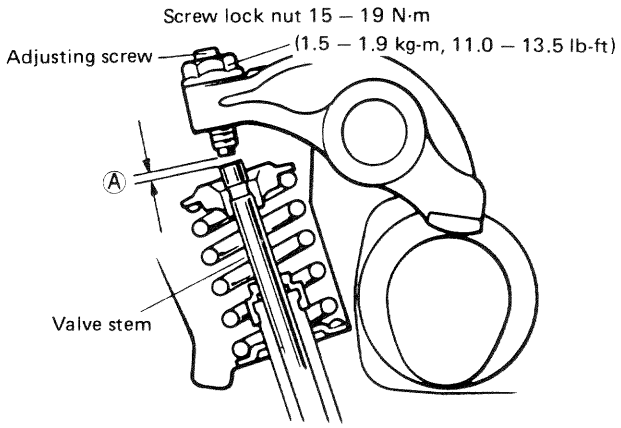


Fig. 1-3-1

3) Refer to 3-53 of SECTION 3 for valve lash inspection and adjustment procedures.
4) Install cylinder head cover and tighten bolts to specification. (Refer to p. 3-58)

4. ENGINE OIL AND FILTER CHANGE

Before draining engine oil, check engine for oil leakage. If any evidence of leakage is found, make sure to correct defective part before proceeding to the following work.

1) Drain engine oil by removing drain plug.

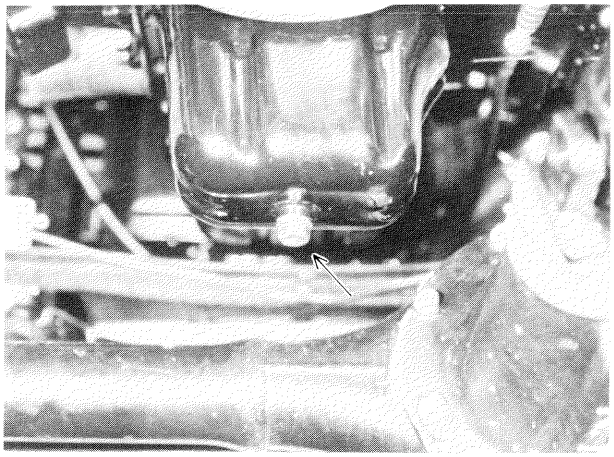


Fig. 1-4-1

2) After draining oil, wipe drain plug clean. Reinstall drain plug, and tighten it securely.

Tightening torque for oil drain plug	N·m	kg-m	lb-ft
	30–40	3.0–4.0	22.0–28.5

3) Loosen oil filter by using oil filter wrench "A" (special tool 09915-47310).

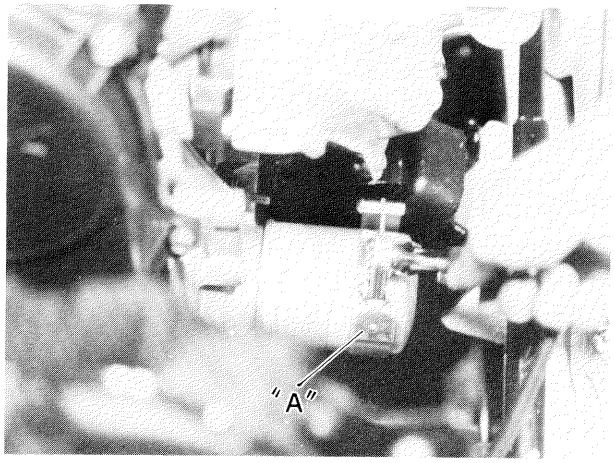


Fig. 1-4-2

NOTICE:
Before fitting new oil filter, be sure to oil its "O" ring. Use engine oil for this purpose.

4) Screw new filter on oil filter stand by hand until the filter "O" ring contacts the mounting surface.

CAUTION:
To tighten the oil filter properly, it is important to accurately identify the position at which the filter "O" ring first contacts the mounting surface.

5) Tighten the filter 3/4 turn from the point of contact with the mounting surface using an oil filter wrench Ⓐ.

Oil filter tightening torque
12–16N.m
1.2 –1.6kg.m
8.5–11.5lb-ft

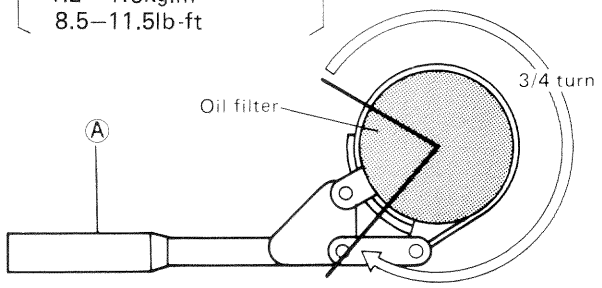


Fig. 1-4-3

6) Replenish oil until oil level is brought to FULL level mark on dipstick. (about 3.7 liters or 7.8/6.5 US/Imp pt.). The filler inlet is atop the cylinder head cover.
7) Start engine and run it for three minutes. Stop engine and wait another three minutes before checking oil level. Add oil, as necessary, to bring oil level to FULL level mark on dip stick.

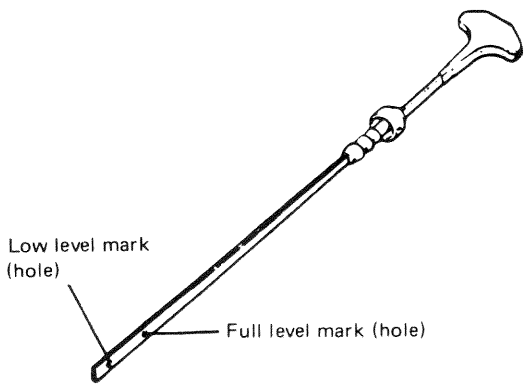


Fig. 1-4-4

NOTICE:
Steps 1) – 6) outlined above must be performed with ENGINE NOT RUNNING. For step 7), be sure to have adequate ventilation while engine is running.

It is recommended to use engine oil of SE or SF class.

NOTICE:
For temperatures below 32°F(0°C), it is highly recommended to use SAE 5W–30 oil.

Proper Engine Oil Viscosity Chart

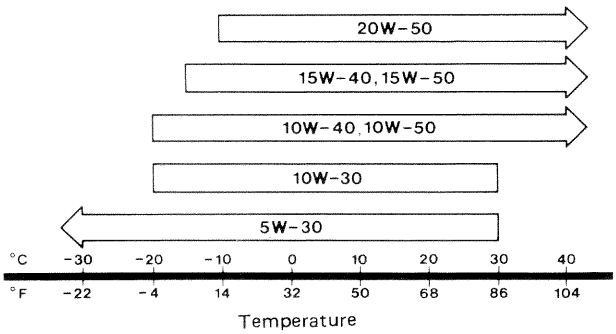


Fig. 1-4-5 Engine Oil Viscosity Chart

Engine oil capacity

Oil pan capacity	3.5 liters (7.4/6.2 US/Imp pt.)
Oil filter capacity	0.2 liters (0.4/0.3 US/Imp pt.)
Others	0.3 liters (0.6/0.5 US/Imp pt.)
Total	4.0 liters (8.4/7.0 US/Imp pt.)

8) Check oil filter and drain plug for oil leakage.

5. COOLING SYSTEM HOSES AND CONNECTIONS INSPECTION

1) Visually inspect cooling system hoses for any evidence of leakage and cracks. Examine them for damage, and check connection clamps for tightness.

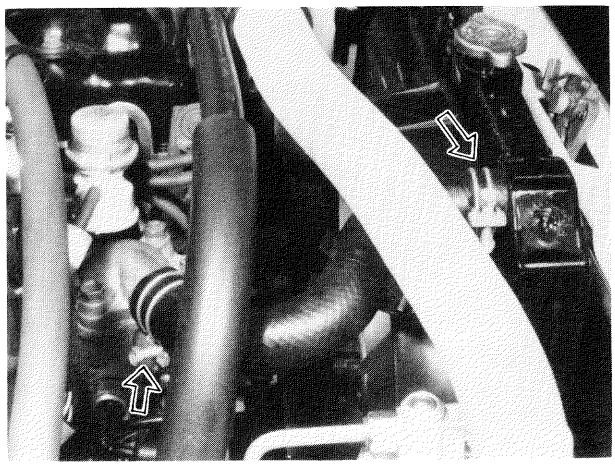


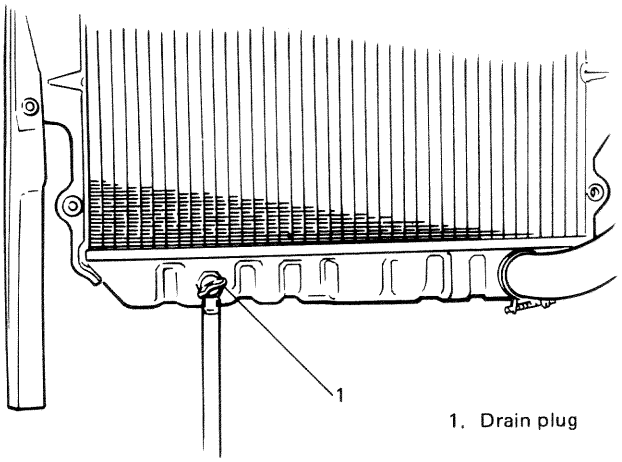
Fig. 1-5-1

2) Replace all hoses which show evidence of leakage, cracks or other damage. Replace all clamps which cannot maintain proper tightness.

6. ENGINE COOLANT CHANGE

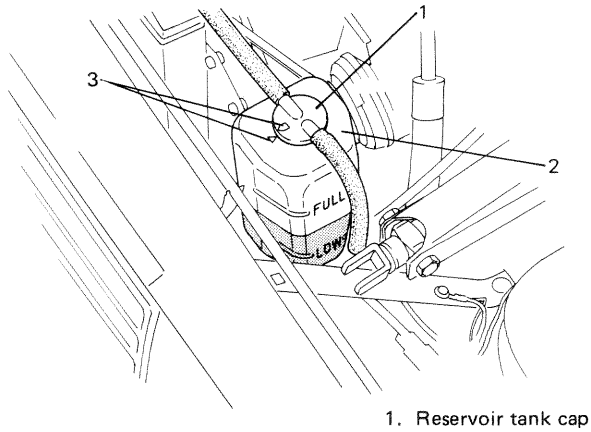
IMPORTANT:
To help avoid danger of being burned, do not remove radiator cap while engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure if the cap is taken off too soon.

1) Remove radiator cap when engine is cool.
2) Loosen radiator drain plug ① to drain coolant.
3) Remove reservoir tank ②, which is on the side of radiator, and drain.
4) Tighten plug ① securely. Also reinstall reservoir tank.



1. Drain plug

Fig. 1-6-1



1. Reservoir tank cap
2. Reservoir tank
3. Arrow marks

Fig. 1-6-2

5) Fill radiator with specified amount of coolant, and run engine for 2 or 3 minutes at idle. This drives out any air which may still be trapped within cooling system. STOP ENGINE. Add coolant as necessary until coolant level reaches the filler throat of radiator. Reinstall radiator cap.
6) Add coolant to reservoir tank so that the level aligns with Full mark. Then, reinstall cap aligning the arrow marks on the tank and cap.

COOLANT CAPACITY	
Engine, radiator and heater	4.4 liters (9.3/7.7 US/Imp pt.)
Reservoir tank	0.6 liters (1.3/1.1 US/Imp pt.)
Total	5.0 liters (10.6/8.8 US/Imp pt.)

CAUTION:
When changing engine coolant, use mixture of 50% water and 50% GOLDEN CRUISER 1200 for the market where ambient temperature falls lower than −16°C (3°F) in winter and mixture of 70% water and 30% GOLDEN CRUISER 1200 for the market where ambient temperature doesn't fall lower than −16°C (3°F).
Even in a market where no freezing temperature is anticipated, mixture of 70% water and 30% GOLDEN CRUISER 1200 should be used for the purpose of corrosion protection and lubrication.

7. EXHAUST PIPES AND MOUNTINGS INSPECTION

IMPORTANT:
To avoid danger of being burned, do not touch exhaust system when system is hot. Any service on exhaust system should be performed when system is cool.

When carrying out periodic maintenance, or the car is raised for other service, check exhaust system as follows:

- Check rubber mountings for damage, deterioration, and out of position.
- Check exhaust system for leakage, loose connections, dents, and damages.
  If bolts or nuts are loose, tighten them to specification. Refer to below chart for torque specification.
- Check nearby body areas for damaged, missing, or mispositioned parts, open seams, holes, loose connections or other defects which could permit exhaust fumes to seep into the car.
- Make sure that exhaust system components have enough clearance from the underbody to avoid overheating and possible damage to the floor carpet.
- Any defects should be fixed at once.

Bolts and nut	Tightening torque
Exhaust pipe bolts	40 – 60 N·m 4.0 – 6.0 kg-m 29.0 – 43.0 lb-ft
Muffler nuts	18 – 28 N·m 1.8 – 2.8 kg-m 13.5 – 20.0 lb-ft

Replace center pipe rubber mounting and muffler rubber mountings with new ones periodically.

1-3. CRANKCASE EMISSION CONTROL SYSTEM

8. CRANKCASE VENTILATION HOSES AND PCV VALVE REPLACEMENT

1) Disconnect crankcase ventilation hoses from cylinder head cover, PCV valve, air cleaner case and 3 way joint.
2) Remove PCV valve from intake manifold.
3) Wind sealing tape on thread of the new valve and install it securely.

Tightening torque for PCV valve	15 – 25 N·m 1.5 – 2.5 kg-m 11.0 – 18.0 lb-ft

4) Install new hoses and clamp them securely.

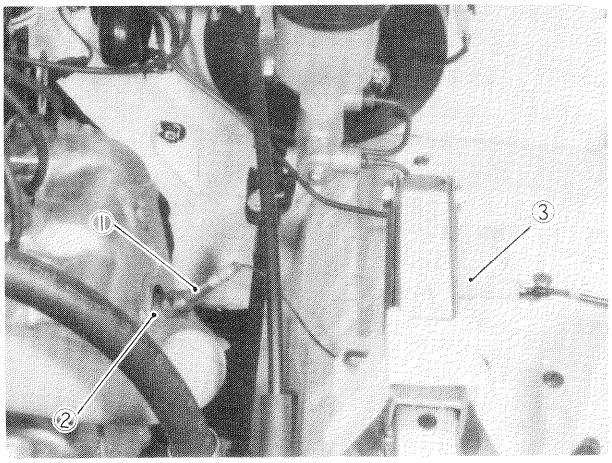
1-4. EXHAUST AND FUEL EVAPORATIVE EMISSION CONTROL SYSTEM

9. OXYGEN SENSOR REPLACEMENT

As "SENSOR" lamp on instrument panel flushes automatically at every 60,000 miles when running warmed up engine, replace oxygen sensor as follows.

CAUTION:
To avoid the danger of being burned, do not touch the exhaust system when the system is hot. This work should be performed when the system is cool.

1) Disconnect battery negative cable from battery and disconnect oxygen sensor wire at the coupler.



1. Oxygen sensor
2. Exhaust manifold
3. Coupler

Fig. 1-9-1

2) Remove oxygen sensor from exhaust manifold.
3) Install new gasket and oxygen sensor, and tighten it to specification.

Tightening torque for oxygen sensor	45 – 55 N·m 4.5 – 5.5 kg-m 33.0 – 39.5 lb-ft

4) Connect oxygen sensor wire at the coupler securely and clamp its wire.
5) Connect negative cable to battery.
6) Start engine and check for gas leak.
7) Run engine at 1,500 ~ 2,000 r/min for 30 sec. after warming up engine. Check to be sure that "SENSOR" lamp flushes, and turn off "SENSOR" lamp cancel switch on steering column holder bracket. Refer to p. 5-23 of SECTION 5.

10. CHARCOAL CANISTER INSPECTION

Refer to MAINTENANCE SERVICE (p. 5-20) of SECTION 5 for charcoal canister inspection.

11. FUEL VAPOR STORAGE SYSTEM, HOSES AND CONNECTIONS REPLACEMENT

IMPORTANT:
The following cautions should be always observed.

- **Disconnect negative cable at battery.**
- **DO NOT smoke and place "NO SMOKING" signs near work area.**
- **Be sure to have CO_2 fire extinguisher handy.**
- **Wear safety glasses.**
- **To release the fuel vapor pressure in fuel tank, remove the fuel tank cap and then reinstall it.**

1) Replace hoses (pipe to canister, canister to intake manifold and canister to carburetor) with new ones.
2) Remove pipe upper and lower protector.
3) Replace hoses (pipe to separator and separator to tank) with new ones.
4) Inspect the clamps for damage and proper position. Replace or correct the clamps if necessary.
5) Install pipe upper and lower protector.

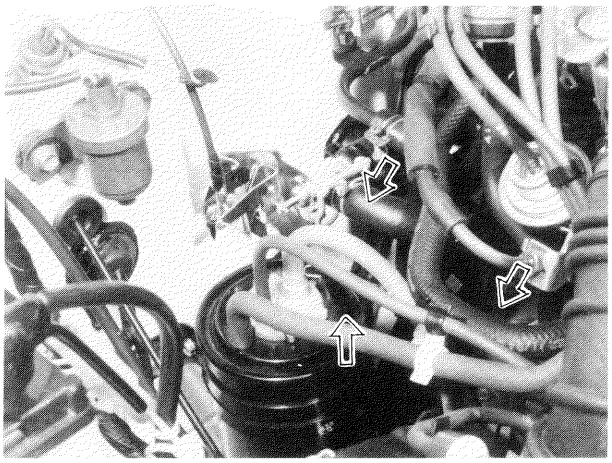


Fig. 1-11-1

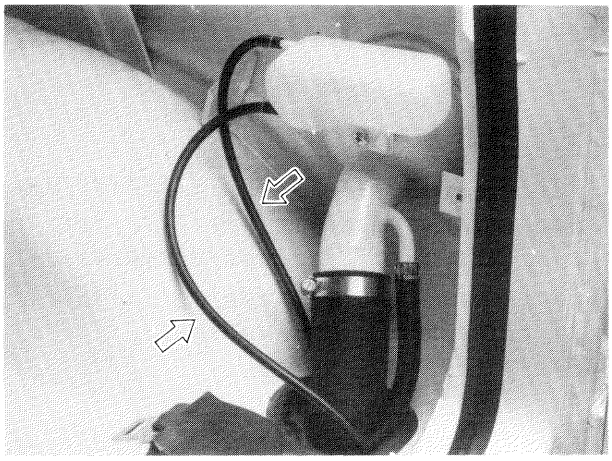


Fig. 1-11-2

1-5. ELECTRICAL SYSTEM

12. WIRING HARNESS AND CONNECTIONS INSPECTION

1) Visually inspect all wires located in engine compartment for evidence of breakage.
   Inspect the condition of the insulation (cracks). All clips and clamps should have solid connections to wires.
2) Replace any wires in a deteriorated or otherwise defective condition.

1-6. IGNITION SYSTEM

13. SPARK PLUGS REPLACEMENT

1) Disconnect high-tension cords from spark plugs. Make sure to pull only on spark plug caps.

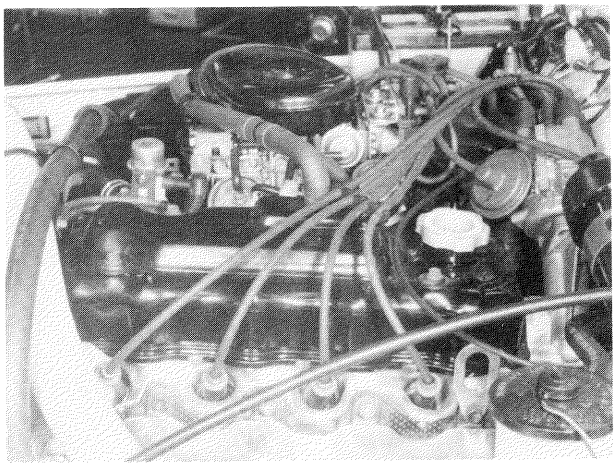


Fig. 1-13-1

2) Using a spark plug wrench, loosen and remove plugs.

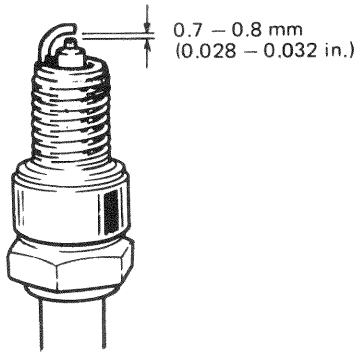


Fig. 1-13-2

NOTICE:
When replacing plugs, make sure to use new plugs of specified heat range and size.

PLUG SPECIFICATION

Maker	Heat range Standard type
NGK	BPR5ES
Nippon Denso	W16EXR-U

3) Install new spark plugs. Tighten plugs to specification.
4) Connect high tension cords to spark plugs. DO NOT push cords for connection. Push boots.

Spark plug tightening torque	20 – 30 N·m 2.0 – 3.0 kg-m 14.5 – 21.5 lb-ft

14. DISTRIBUTOR CAP AND ROTOR INSPECTION

1) Inspect distributor cap and rubber caps for cracks.
2) Inspect center electrode and terminals for wear.

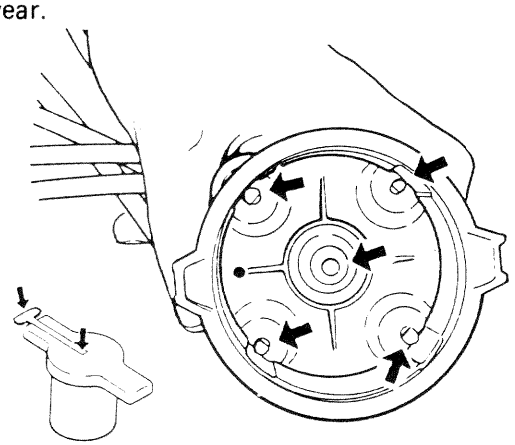


Fig. 1-14-1

3) Inspect rotor for cracks, and its electrode for wear.
4) Check to see that there are no excessive closes in ventilation plug hole.
5) Repair or replace as necessary any component which is found to be in malcondition as described above.

NOTICE:
Dust and stains found within distributor can be cleaned by using a dry, soft cloth.

15. IGNITION WIRING REPLACEMENT

1) Disconnect high tension cords from spark plugs, ignition coil and distributor.
2) Connect new high tension cords as shown and clamp them securely. DO NOT push cords for connection. Push boots.

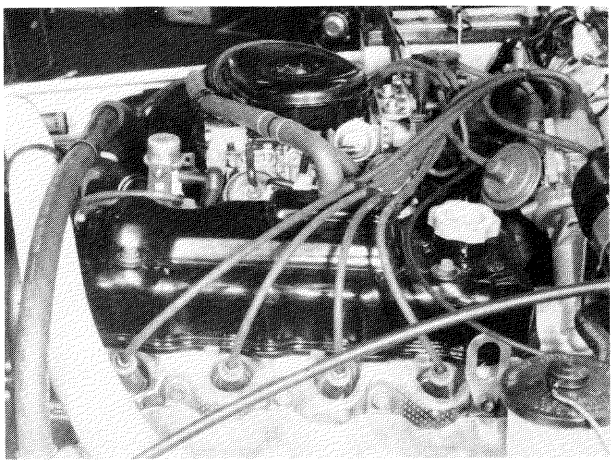


Fig. 1-15-1

16. IGNITION TIMING INSPECTION

Check to make sure that ignition timing is set properly. If out of specification, adjust it.
Refer to p. 8-9 of SECTION 8 for inspection and adjustment procedure.

17. DISTRIBUTOR ADVANCER INSPECTION

Check advancer for proper operation. Refer to p. 8-9 of SECTION 8 for checking procedure.
Check vacuum hose for pinhole, crack or brake. Correct or replace if necessary.

1-7. FUEL

18. FUEL TANK CAP GASKET INSPECTION AND REPLACEMENT

Visually inspect gasket of fuel tank cap. If it is damaged or deteriorated, replace it with new one.

19. AIR CLEANER ELEMENT REPLACEMENT

1) Remove air cleaner cap.
2) Take cleaner element ① out of air cleaner case.
3) Install new cleaner element ① into cleaner case.

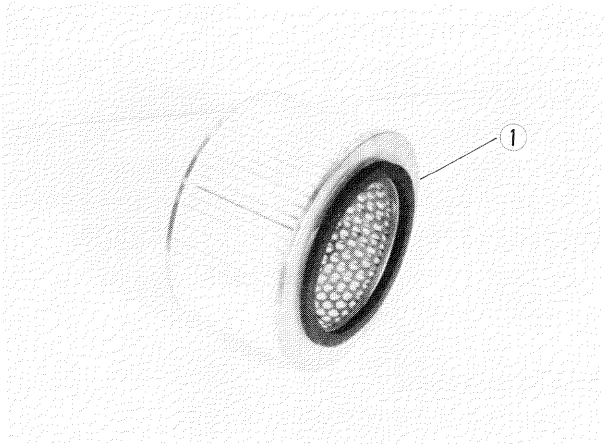


Fig. 1-19-1

4) Install air cleaner cap securely.

20. THERMOSTATICALLY CONTROLLED AIR CLEANER SYSTEM INSPECTION

Check thermostatically controlled air cleaner system for proper operation. Refer to p. 5-19 of SECTION 5 for checking procedure.

21. CARBURETOR CHOKE SYSTEM LUBRICATION AND INSPECTION

1) Remove air intake case, and lubricate rotating parts.
2) Check choke for proper operation, referring to CHOKE INSPECTION in MAINTENANCE SERVICE (p. 4-22) of SECTION 4.

22. FUEL FILTER REPLACEMENT

WARNING:
This work must be performed in a well ventilated area and away from any open flames (such as gas hot water heaters).

1) Disconnect negative cable from battery.
2) Remove fuel tank cap to release fuel vapor pressure in fuel tank. After releasing, reinstall the cap.
3) Disconnect inlet and outlet hoses from fuel filter located at the front part of fuel tank, inside the right-hand side of chassis.
4) Remove fuel filter with clamp.
5) Install new filter with clamp, and connect inlet and outlet hoses to fuel filter.

NOTICE:
The top connection is for the outlet hose, the lower one for the inlet hose.

6) Connect negative cable to battery.
7) After installation, start engine and check it for leaks.

23. FUEL LINES AND CONNECTIONS INSPECTION AND REPLACEMENT

[INSPECTION]

Visually inspect fuel lines and connections for evidence of fuel leakage, hose cracking, and damage. Make sure all clamps are secure.
Repair leaky joints, if any.

Replace hoses that are suspected of being cracked.

[REPLACEMENT]

IMPORTANT:
The following cautions should be always observed.

- **Disconnect negative cable at battery.**
- **DO NOT smoke and place "NO SMOKING" signs near work area.**
- **Be sure to have CO_2 fire extinguisher handy.**
- **Wear safety glasses.**
- **To release the fuel vapor pressure in fuel tank, remove the fuel tank cap and then reinstall it.**

1) Replace fuel hoses (pipe to fuel pump, pipe to fuel filter and breather hose) in fuel feed and return lines with new ones.
2) Remove fuel tank referring to p. 4-34 of SECTION 4.
3) Replace return hose (tank to return pipe) with new one.
4) Clamp hoses securely.
5) Install fuel tank referring to p. 4-35 of SECTION 4.
6) After installation, start engine and check it for leaks.

24. IDLE SPEED INSPECTION

Check idle speed, and adjust it as necessary.
Refer to MAINTENANCE SERVICE (p. 4-26) of SECTION 4 for procedures to check and adjust idle speed.

1-8. CHASSIS AND BODY

25. CLUTCH PEDAL INSPECTION

1) Check clutch pedal height. It should be the same as brake pedal height.
2) Check clutch pedal free travel.

Clutch pedal free travel	20 – 30 mm (0.8 – 1.1 in.)

For the details of the above steps 1) and 2), refer to MAINTENANCE SERVICE (p. 11-8) of SECTION 11.

26. BRAKE DISCS, PADS, BRAKE DRUMS AND SHOES INSPECTION

Brake Discs and Pads

1) Remove wheel and caliper but don't disconnect brake hose from caliper.
2) Check front disc brake pads and discs for excessive wear, damage and deflection. Replace parts as necessary. For the details, refer to p. 19-16 and 19-17 of SECTION 19.
   Be sure to torque caliper guide pins to specification for reinstallation.

Brake Drums and Shoes

1) Remove wheel and brake drum.
2) Check rear brake drums and brake linings for excessive wear and damage, while wheels and drums are removed. Also check wheel cylinders for leaks, at the same time. Replace these parts as necessary.
   For the details, refer to p. 19-21 and p. 19-22 of SECTION 19.

27. BRAKE HOSES AND PIPES INSPECTION

Check brake hoses and pipes for proper hook-up, leaks, cracks, chafing and other damage. Replace any of these parts as necessary.

CAUTION:
After replacing any brake pipe or hose, be sure to carry out air purge operation.

28. BRAKE FLUID INSPECTION AND CHANGE

[INSPECTION]

1) Check around master cylinder and reservoir for fluid leakage.
   If found leaky, correct.
2) Check fluid level
   If fluid level is lower than the minimum level of reservoir, refilling is necessary. Fill reservoir with specified brake fluids.

Brake fluid	Specifications
	DOT 3

For the details, refer to MAINTENANCE SERVICE (p. 19-42) of SECTION 19.

CAUTION:
Since the brake system of this car is factory-filled with glycol-base brake fluid, do not use or mix different type of fluid when refilling the system; otherwise serious damage will occur. Do not use old or used brake fluid, or one taken from unsealed container.

[CHANGE]

1) Change brake fluid. As fluid change procedure, drain existing fluid from brake system completely, fill the system with above recommended fluid and carry out air purge operation.

   For description of air purge, refer to p. 19-46 and 19-47 of SECTION 19.

29. BRAKE PEDAL INSPECTION

Check brake pedal travel.
For checking procedure, refer to PEDAL TRAVEL CHECK (p. 19-43) of SECTION 19.

30. BRAKE LEVER AND CABLE INSPECTION

Parking Brake Lever

1) Check tooth tip of each notch for damage or wear. If any damage or wear is found, replace parking lever.
2) Check parking brake lever for proper operation and stroke, and adjust it if necessary.
   For checking and adjusting procedures, refer to PARKING BRAKE INSPECTION AND ADJUSTMENT (p. 19-44) of SECTION 19.

Parking Brake Cable

Inspect brake cable for damage and smooth movement. Replace cable if it is in deteriorated condition.

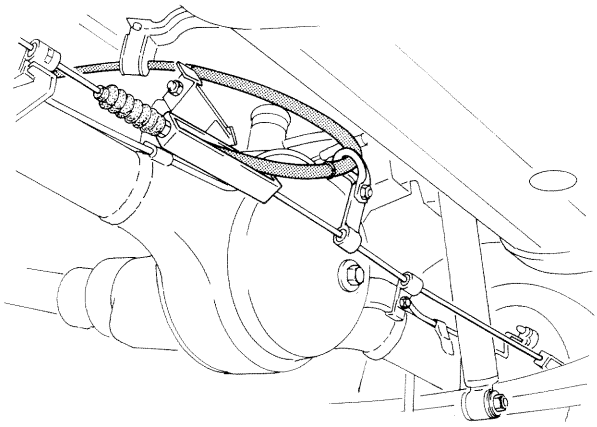


Fig. 1-30-1

31. TIRE INSPECTION AND ROTATION

1) Check tires for uneven or excessive wear, or damage. If defective, replace.
2) Check inflating pressure of each tire and adjust pressure to specification as necessary.

NOTICE:

- **Tire inflation pressure should be checked when tires are cool.**
- **Specified tire inflation pressure should be found on tire placard or in owners' manual which came with the car.**

3) Rotate tires.
   For the details of above steps 1) to 3), refer to MAINTENANCE SERVICE (p. 18-19 and 18-20) of SECTION 18.

32. WHEEL DISCS AND FREE WHEELING HUBS (if equipped) INSPECTION

Wheel Discs

Inspect each wheel disc for dents, distortion and cracks. A disc in badly damaged condition must be replaced.

Free Wheeling Hub

This is applicable to the car equipped with free wheeling hubs.

Check free wheeling hub for proper operation by moving free wheeling hub knob to LOCK and FREE positions. (The same check on both right and left wheels)

For checking procedure, refer to MAINTENANCE SERVICE (p. 17-29) of SECTION 17.

33. STEERING KNUCKLE OIL SEAL REPLACEMENT

For replacement procedure, refer to MAINTENANCE SERVICE (p. 17-23) of SECTION 17.

34. WHEEL BEARING INSPECTION

[Inspection of wheel bearing]

1) Check front wheel bearing for wear, damage, abnormal noise or rattles. For the details, refer to MAINTENANCE (p. 17-20 and 17-21) of SECTION 17.
2) Check rear wheel bearing for wear, damage abnormal noise or rattles. For the details, refer to MAINTENANCE SERVICE (p. 17-24) of SECTION 17.

[Inspection of front wheel bearing grease]

1) Remove wheel hub and spindle referring to FRONT WHEEL HUB REMOVAL of SECTION 17.
2) Check grease around front wheel bearing rollars and between front axle shaft surface and wheel spindle bush for deterioration and capacity.

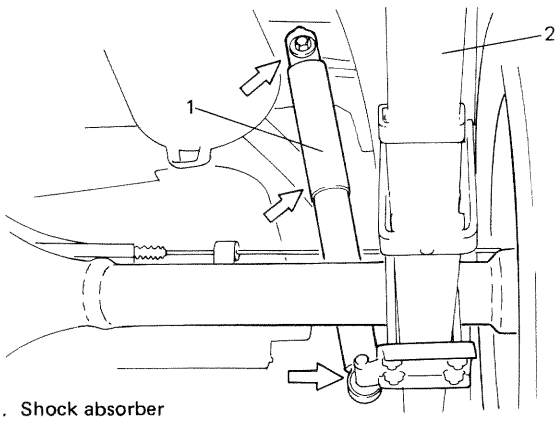
If grease is deteriorated, remove grease thoroughly and apply enough amount of new SUZUKI SUPER GREASE A or wheel bearing grease. If grease is found insufficient, add some more.

3) Install spindle, bearings, wheel hub, bearing nut and brake disc referring to INSTALLATION (p. 17-12) of SECTION 17.
4) Adjust bearing preload and then tighten bearing lock nut to specification. Refer to MAINTENANCE (p. 17-21) of SECTION 17.
5) Install drive flange or free wheeling hub (if equipped), brake caliper with mounting and wheel referring to INSTALLATION (p. 17-12) of SECTION 17.

For tightening torque of each bolt and nut, refer to torque table (p. 17-26) of SECTION 17.

35. SHOCK ABSORBERS INSPECTION

1) Inspect absorbers for evidence of oil leakage, dents or any other damage on sleeves; and inspect anchor ends for deterioration.
2) Depending on the results of the above inspection, replace absorbers.



1. Shock absorber
2. Leaf spring

Fig. 1-35-1

WARNING:
When handling rear shock absorber in which high-pressure gas is sealed, make sure to observe the following precautions.
1. Don't disassemble it.
2. Don't put it into fire.
3. Don't store it where it gets hot.
4. Before disposing it, be sure to drill a hole in it where shown in the illustration below and let gas and oil out. Lay it down sideways for this work.