

# SERVICE MANUAL

*Datsun*

MODEL 510 SERIES  
CHASSIS and BODY



## SECTION FE

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### ENGINE CONTROL, FUEL & EXHAUST SYSTEM

FE

ENGINE CONTROL SYSTEM.....	FE-1
FUEL & EXHAUST SYSTEM.....	FE-2

## ENGINE CONTROL SYSTEM

### ACCELERATOR LINKAGE

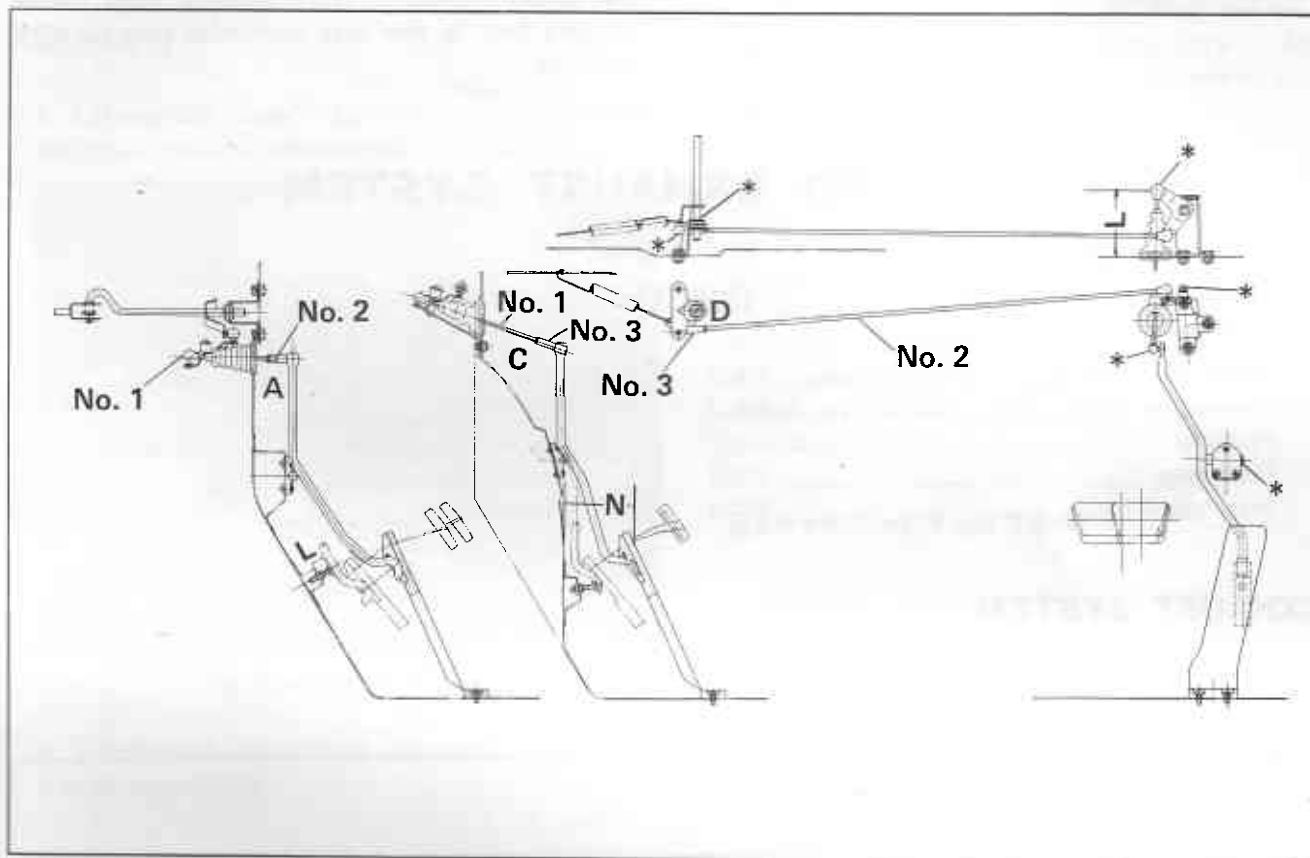


Fig. FE-1 Linkage setting

### Removal and installation

1. Remove accelerator rod from accelerator pedal arm as shown Fig. FE-2.

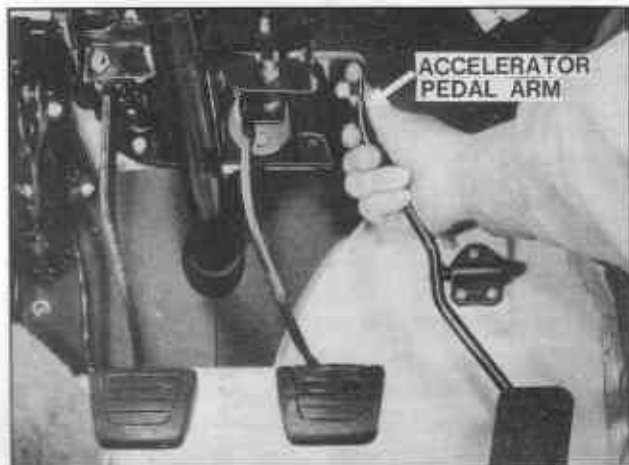


Fig. FE-2 Rod removal

2. Remove accelerator shaft bracket from panel in the engine compartment, then remove accelerator linkage.

3. To install reverse removal procedure.

### Adjustment

1. Install all linkage parts while the ass'y ball joint No. 1 and No. 2 are screwed 13 mm (0.5118 in.) into the ball joint No. 3.

2. Then adjust C part screw to get L dimension to 82 mm (3.228 in.) and N dimension to 87 mm (3.425 in.).

3. Leaving L dimension at 82 mm (3.228 in.), adjust D part screw to get the fully closed position of carburetor.

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4. After the adjustment of 1. 2. and 3. items, check N dimension as to whether it is 87 mm (3.425 in.) or not, and if necessary adjust C part screw again.

5. After the above mentioned procedure, step on the accelerator pedal and adjust the stopper bolt so that contact is made with the pedal when the throttle shaft is fully opened, then screw stopper bolt in one turn clockwise then fix with lock nut.

## FUEL AND EXHAUST SYSTEM

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### EXHAUST SYSTEM

#### Description

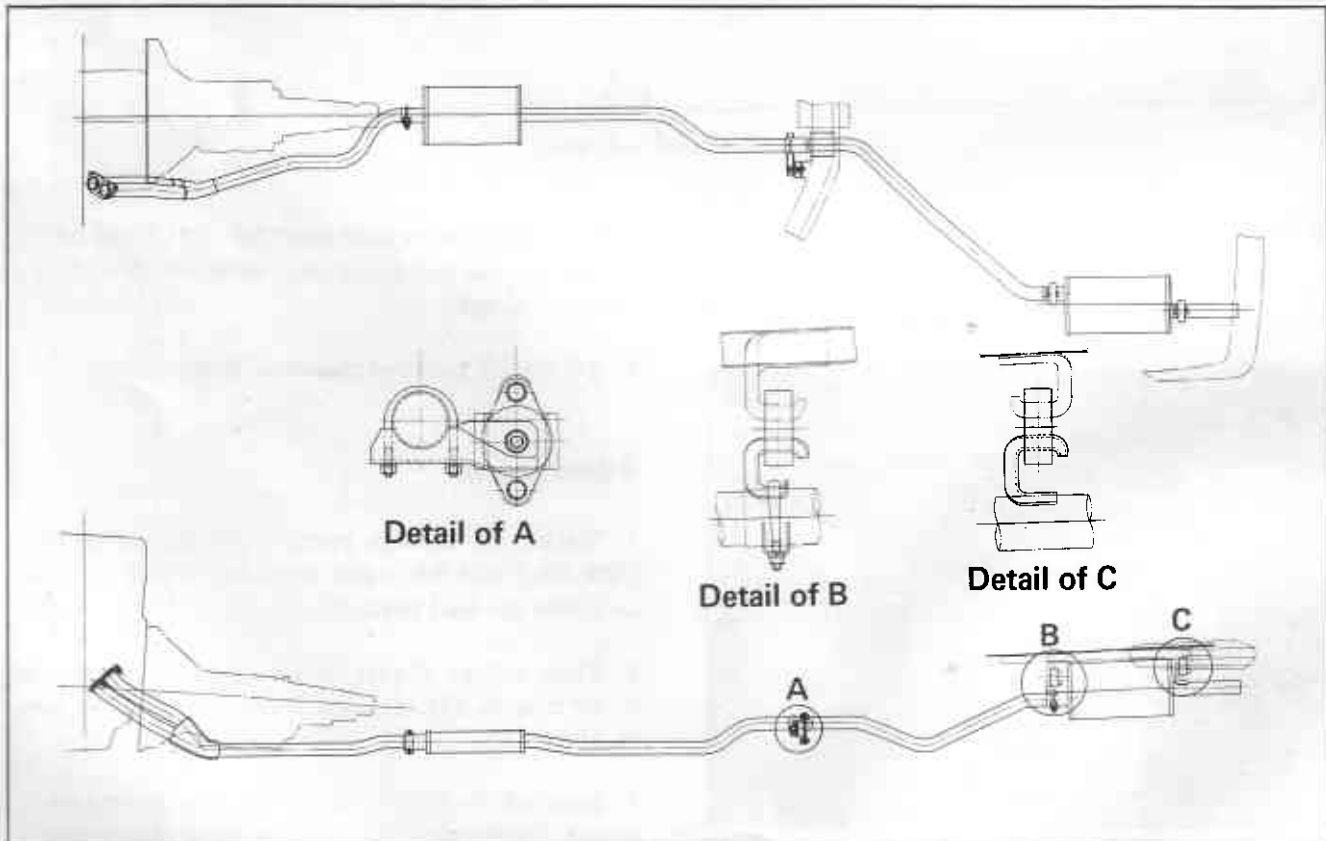


Fig. FE-3 Exhaust construction

# ENGINE CONTROL, FUEL & EXHAUST SYSTEM

The exhaust system consists of six parts; front tube, pre-muffler, center tube, rear tube, main muffler and tail pipe.

## Removal

1. Loosen the clamps at front tube, center tube and main muffler connection.

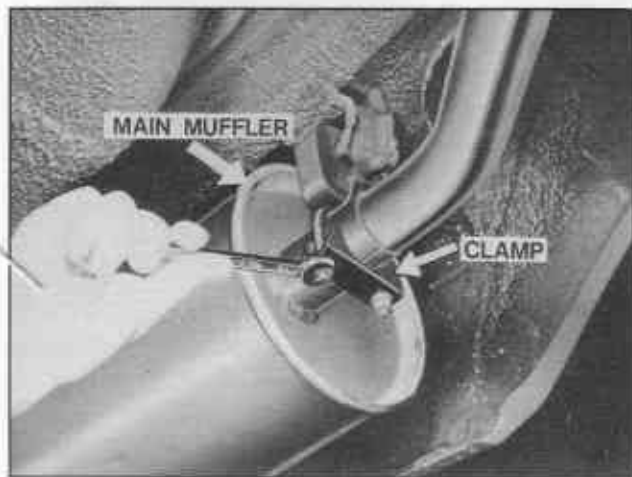


Fig. FE-4 Clamp loosening

2. Disconnect front tube and exhaust manifold flange connection.

## Inspection

1. Check for damage at tube flange. Replace or repair if necessary.
2. Check for distortion, damage or deterioration of tubes and muffler. Replace or repair if necessary.
3. Check for damage to the hanger straps of mounting rubbers and replace if necessary.

## Installation

Install in the reverse sequence of removal.

**Note:** After installation, run the engine and check for exhaust gas leakage. Hanger straps and mounting rubber should be installed without being forced, because such a condition will cause excessive room noise.

## FUEL TANK AND PIPING

### Description

To Prevent the fuel from being heated by the engine, a fuel circulating type piping method is used on 510 series equipped with a fuel return tube.

When the fuel level in the float chamber reaches the prescribed level, the relief valve of the carburetor opens owing to fuel pressure, and excess fuel returns to the fuel tank again and is cooled in the tank.

For the same purpose fuel pipes pass under the floor and without passing through the engine well, pass outside of right hand hood ridge then enter the engine well right under the fuel strainer.

### Removal of fuel tank

#### Passenger

1. Detach rear seat and seat back.
2. Remove seat back trim board.
3. Open trunk lid and remove trunk room finish board.
4. Disconnect all unit gauge lead wire.
5. Remove Gas filler tube.

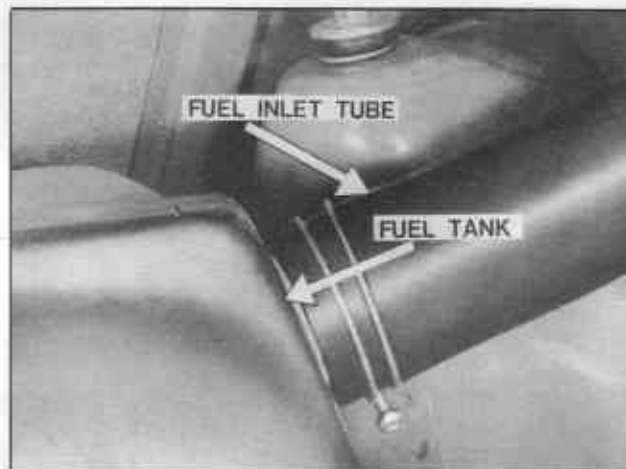


Fig. FE-5 Filler tube

6. Remove fixing bolts and disconnect rubber tubes of fuel outlet and fuel return from fuel tank.

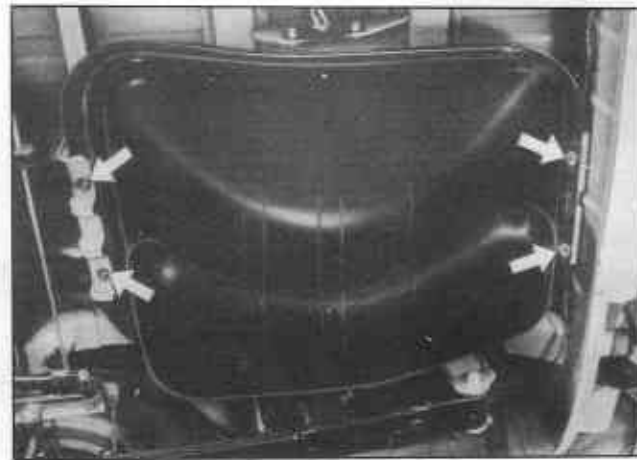
## CHASSIS



*Fig. FE-6 Fuel tank (Sedan)*

### Wagon

To remove fuel tank remove fixing bolts located under rear floor.



*Fig. FE-7 Fuel tank (wagon)*

### Fuel pipe inspection

The fuel pipe lines should be inspected occasionally for leaks, kinks or dents. If evidence

of dirt is found in the carburetor or fuel pump upon disassembly, the lines should be disconnected and blown out.

### Fuel strainer

Cartridge type fuel strainer, made of nylon, is used so that exchange is easy.

Changing interval is 40,000 km (24,000 mile).

## SERVICE JOURNAL OR BULLETIN REFERENCE

DATE	JOURNAL or BULLETIN No.	PAGE No.	SUBJECT