

EDIC (ELECTRICAL DIESEL INJECTION CONTROL) SYSTEM

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7-2 **EDIC SYSTEM – Operating Diagram, EDIC System Circuit****OPERATING DIAGRAM**

Fig. 7-1

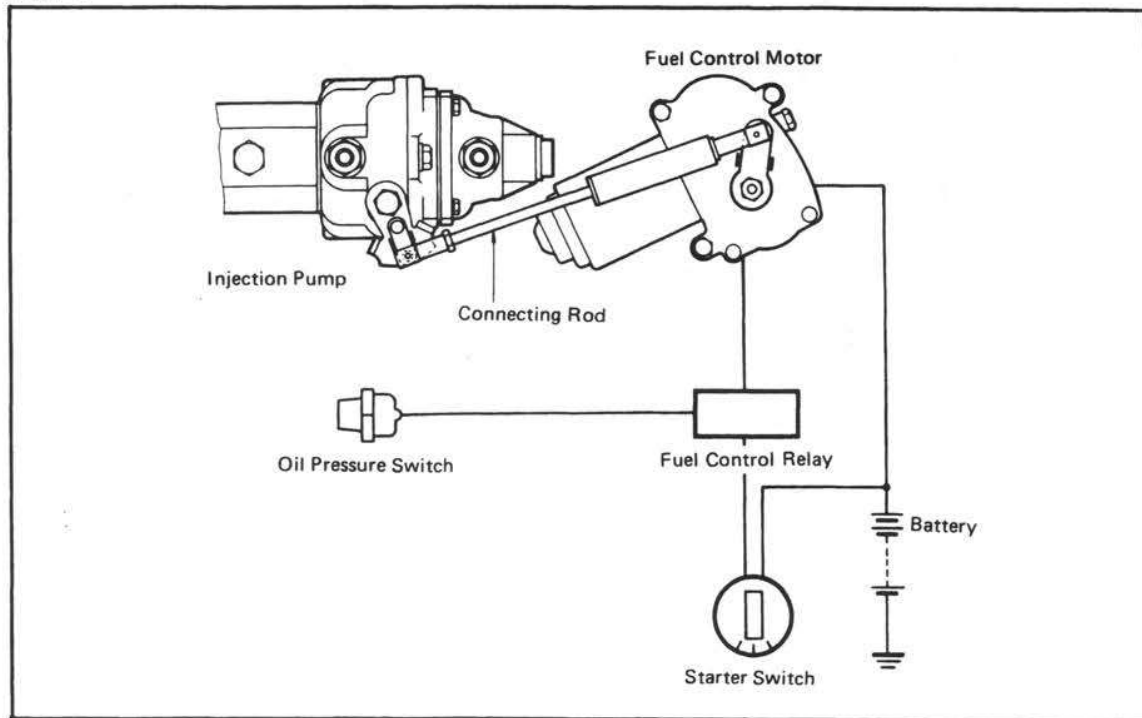
**EDIC SYSTEM CIRCUIT**

Fig. 7-2

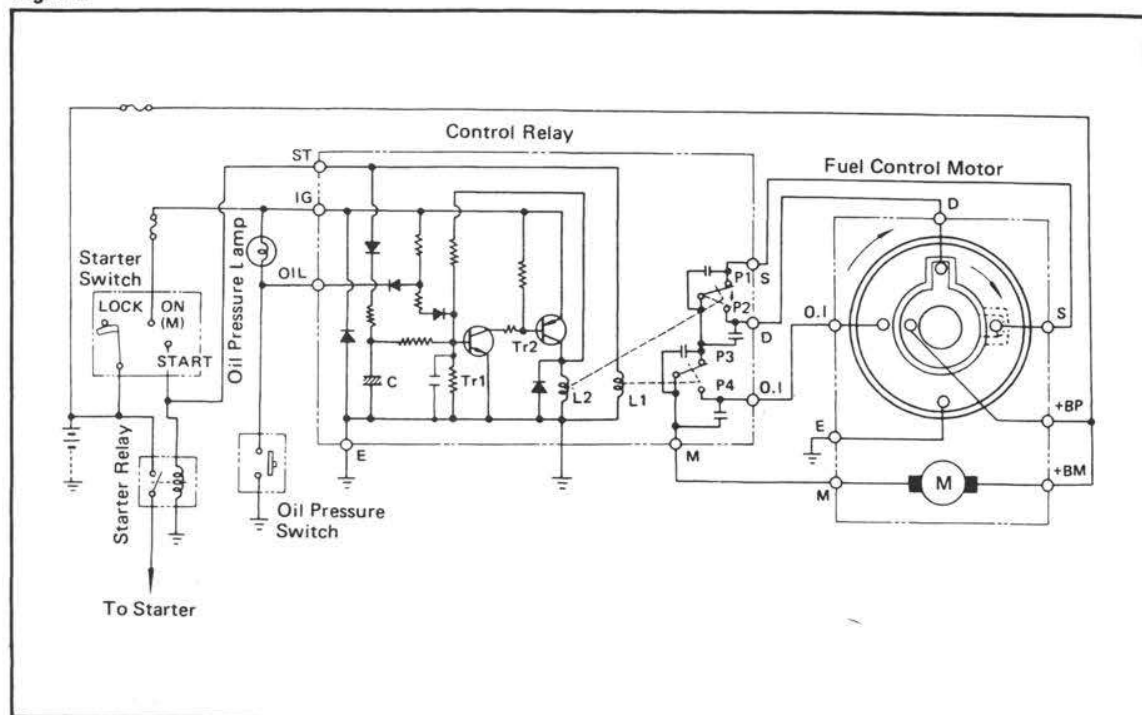
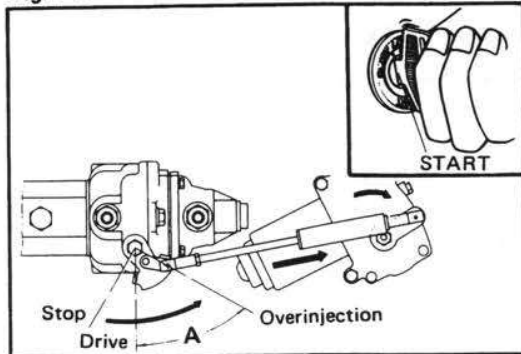


Fig. 7-3



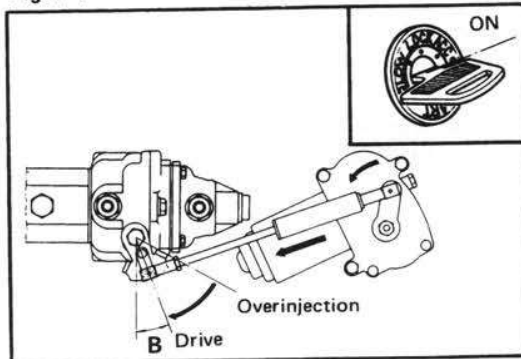
OPERATIONAL CHECK

STARTING OVERINJECTION

When the starter is turned, the injection pump lever should move to the overinjection position.

A: 60.5°
 54.5° (With DAC)

Fig. 7-4

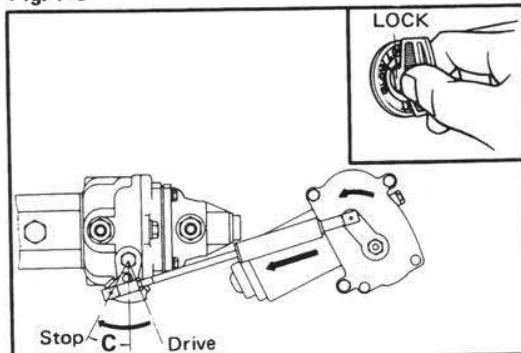


AFTER STARTING (DRIVE POSITION)

After starting the engine, the fuel control motor lever and also the injection pump lever should be positioned between the two marks.

B: 19.5°

Fig. 7-5

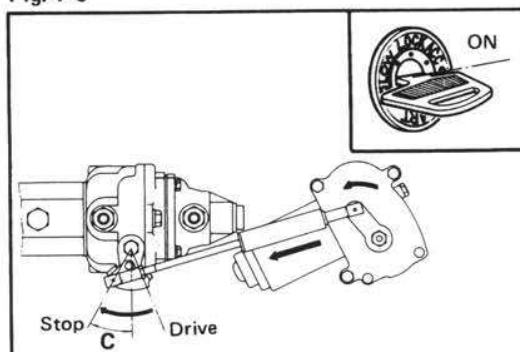


ENGINE STOPPING ACTION

When the starter switch is turned to "LOCK", the injection pump lever should move to the stop position and the engine should stop.

C: 29.5°
 25.0° (With DAC)

Fig. 7-6



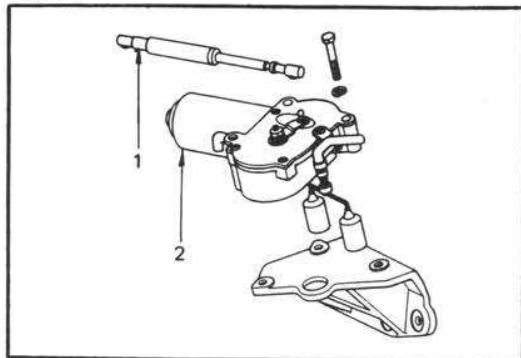
REVERSE ROTATION PREVENTION

Start the engine, and ground the oil pressure switch connector.

Then, the injection pump lever should move to the stop position and the engine should stop.

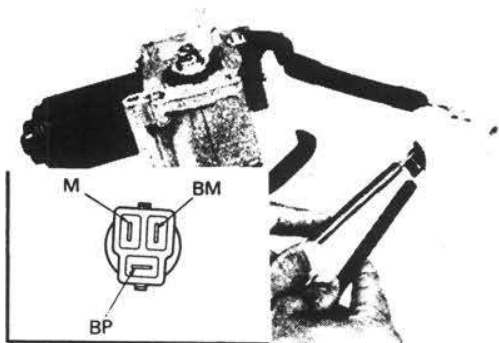
7-4 **EDIC SYSTEM – Fuel Control Motor**

Fig. 7-7

**FUEL CONTROL MOTOR****REMOVAL**

Remove connecting rod (1) and fuel control motor (2).

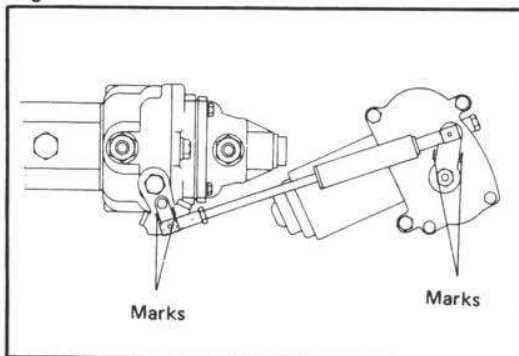
Fig. 7-8

**INSPECTION**

Measure resistance between "M" and "BM" terminals.

Resistance**12V type****About 0.8 Ω** **24V type****About 3.3 Ω**

Fig. 7-9

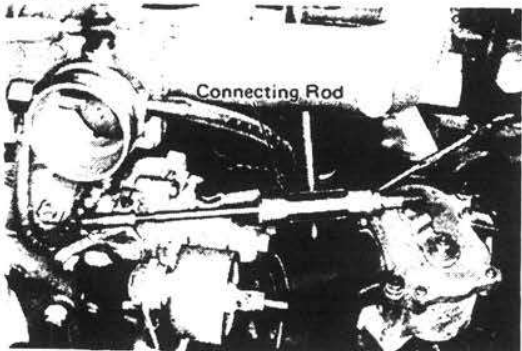
**INSTALLATION**

1. Install the motor and connecting rod in reverse order of removal.

– Note –

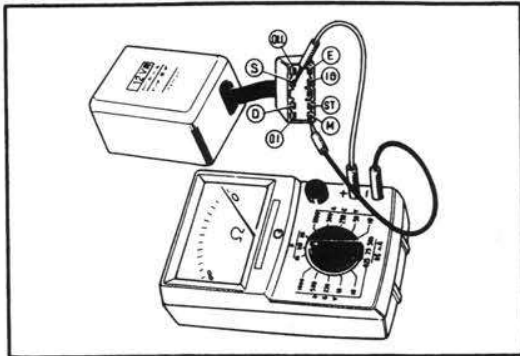
Fuel control motor lever should be positioned between the two marks.

Fig. 7-10



2. Adjust the connecting rod length so that the injection pump lever is positioned between the two marks.

Fig. 7-11



FUEL CONTROL RELAY



INSPECTION

1. Measure the resistance between terminals.

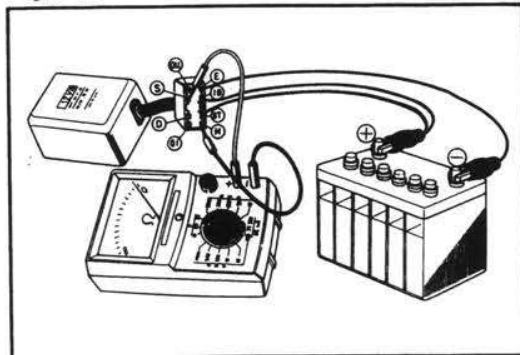
Resistance

S – M 0Ω

ST – E, 12V type About 40Ω

24V type About 65Ω

Fig. 7-12



2. Apply positive voltage from battery to "ST" and "IG" terminals, and negative voltage to "E" terminal.

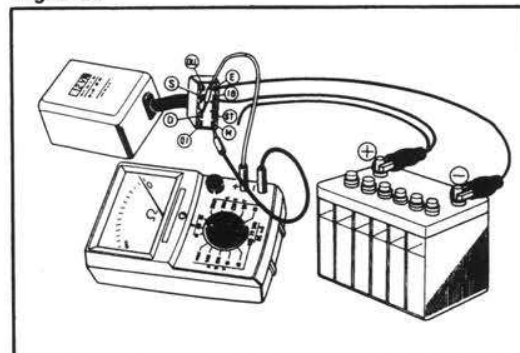
Measure the resistance between terminals.

Resistance

S – M Infinitive

O.I – M 0Ω

Fig. 7-13



3. Applying voltage as mentioned above, connect tester probes to "D" and "M" terminals. Cut the voltage for "ST" terminal.

Then, the reading of the circuit tester should continue at 0Ω for about 8 seconds.

Fig. 7-14

