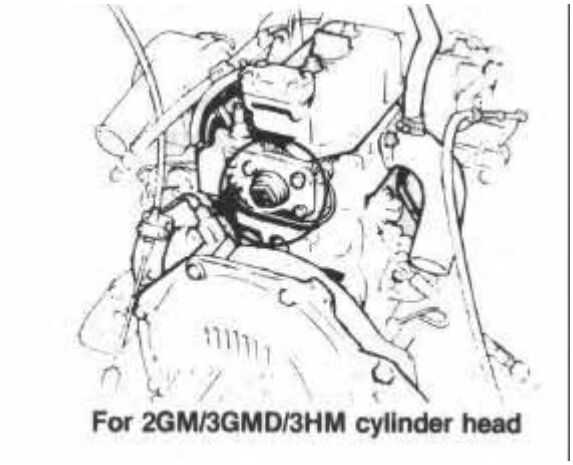
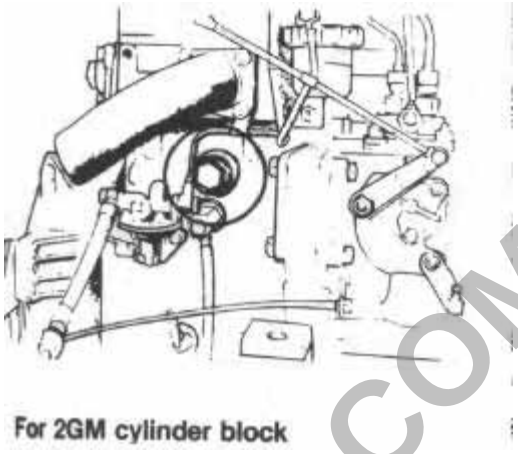
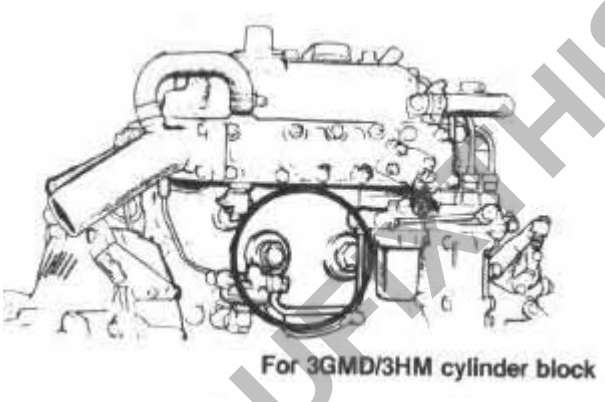


For 2GM/3GMD/3HM cylinder head



For 2GM cylinder block



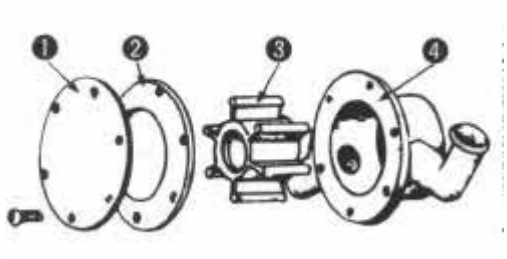
For 3GMD/3HM cylinder block

Location of anticorrosion zinc

| | Number of Pieces | | | |
|---|---|---|---|---|
| | 1GM | 2GM | 3GMD | 3HM |
| Cylinder Head | – | 1 | 1 | 1 |
| Cylinder Body | 1 | 1 | 2 | 2 |

3) Inspection and replacement of cooling water pump.

3-a) Impeller of the cooling water pump.




3-a)-1.
Remove the cooling water pump cover, take out the impeller, and check for damage to the impeller and mechanical seal parts. If damaged, replace with a new one.

1. Cover
2. Packing
3. Impeller
4. Cooling Water Pump

3-a)-2.
When reassembling the pump, coat the fittings of the pump shaft and impeller, both sides of the impeller, and the vane tips with grease.

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II

## II. Engine specifications

| Model | 1GM | 2GM | 3GMD | 3HM |
|---|---|---|---|---|
| Type | Vertical 4-cycle water-cooled diesel engine | | | |

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## Maintenance standard

### FUEL SYSTEM

| | | |
|---|---|---|
| Fuel injection pressure | 1GM, 2GM, 3GMD | 170kg/cm² |
| | 3HM | 160kg/cm² |
| Fuel injection timing | 1GM, 2GM | 15°bTDC |
| | 3GMD | 18°bTDC |

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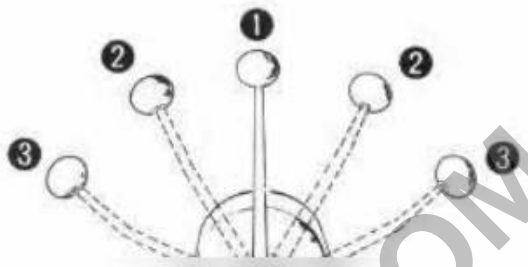
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# V II. Method of operation

**Caution**

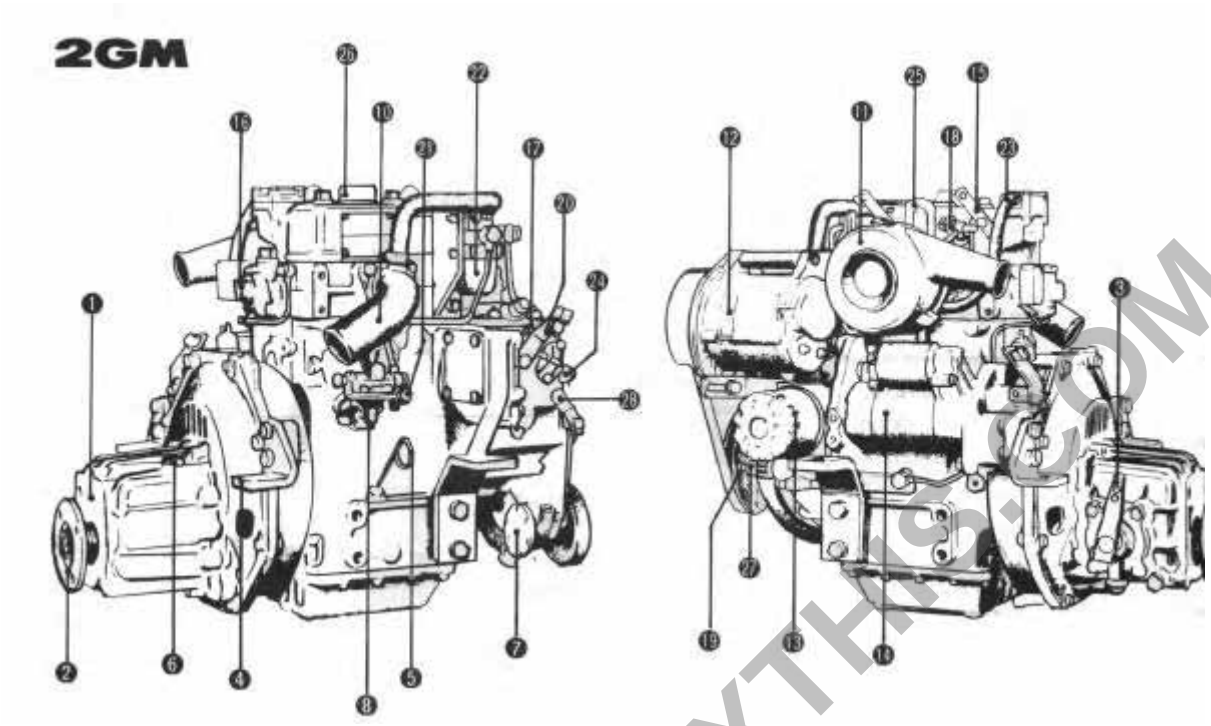
Before starting the engine reconfirm that there are no tools, etc. left in the engine area, especially areas where there are revolving parts.

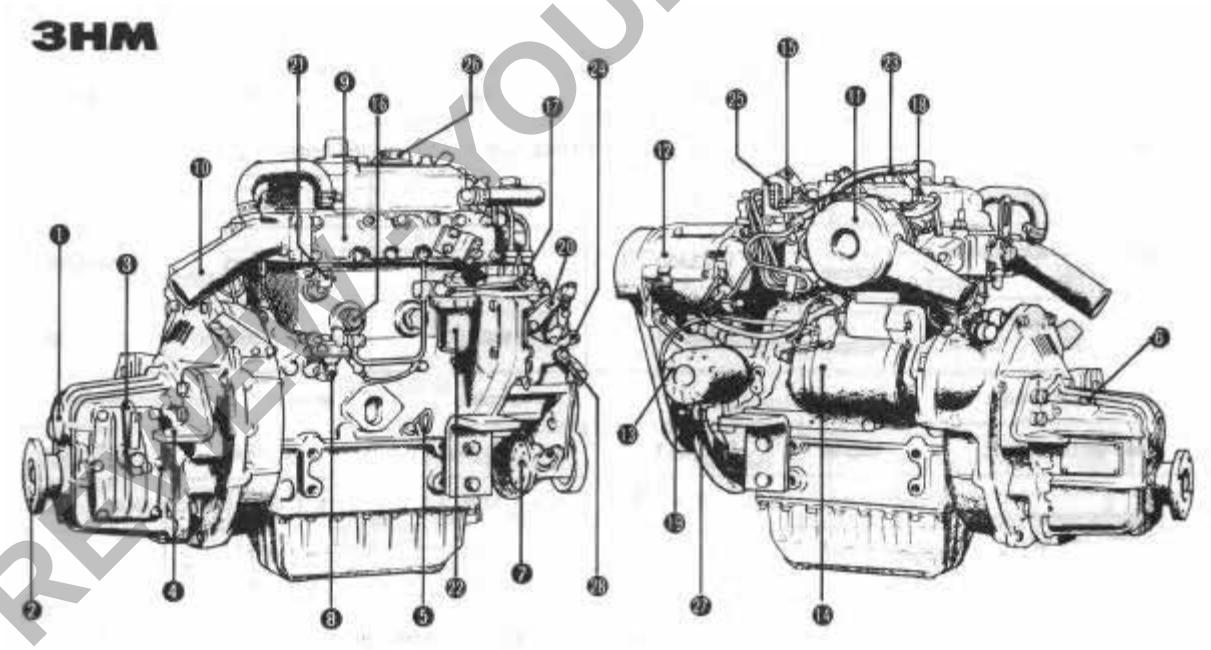



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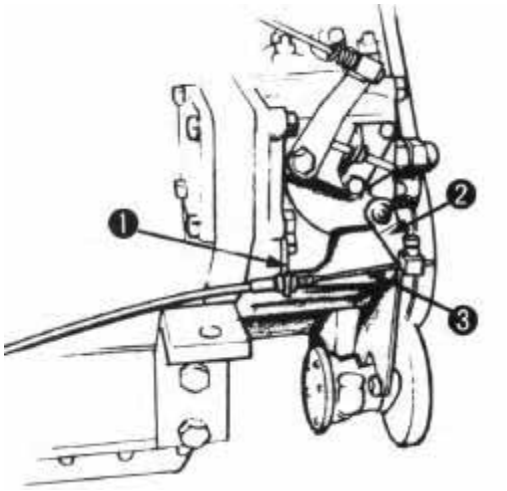
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1. Clamp
2. Engine Stop lever
3. Engine stop remote control cable

**[3-7.] Recommended battery capacity**

Use sufficient capacity of battery.

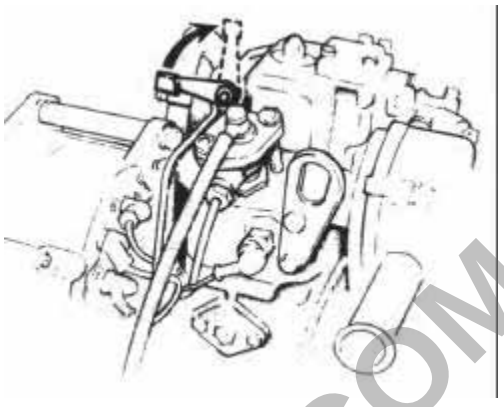
| | | |
|---|---|---|
| 1GM, 2GM, 3GMD | - | 12V - 70AH (Mini) |
| 3HM | - | 12V - 100AH (Mini) |

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1-c)
Place the starter key in the "ON" position.

1-d)
Press the starter button to start the engine.



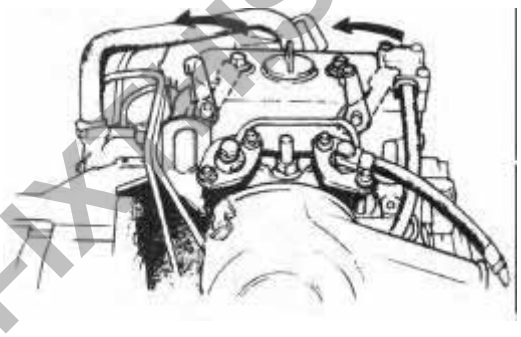
**For IGM**




**Important**

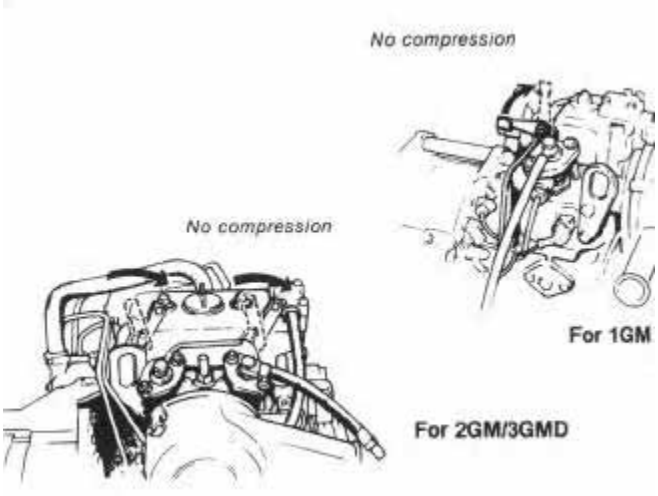
(1) RELEASE the push button when engine starts.
If the push button is released before engine starts, wait until starter motor and engine stop running before trying again.

(2) Do not operate starter motor more than 15 seconds at a time. If engine does not start, wait at least one minute before trying again.



**For 2GM/3GM/3HM**

**Note**
In cold weather.
When starting is difficult in cold weather, raise the decompression handle to the "no compression" position and turn the starter motor over. After the engine gains momentum, return the decompression lever to the "compression" position. The amount of electricity needed will be less, and engine starting will be facilitated.




2) Emergency start
1GM, 2GM, 3GMD model can be started in an emergency by manual starting.

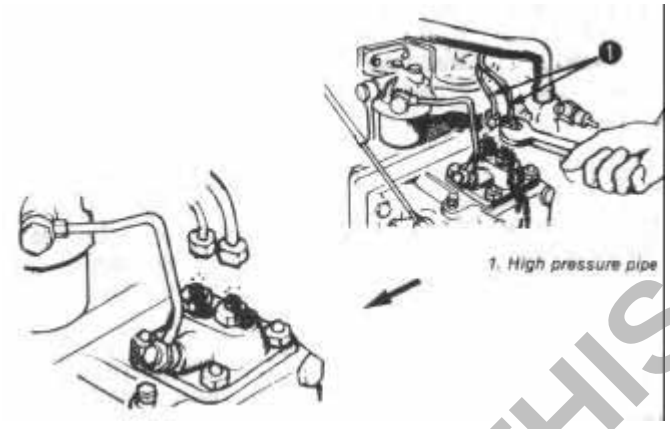
2-a)
Pull out the engine warm up knob and place the control lever in the "FULL SPEED" position. And also place the starter key in the "ON" position in order to charge the battery after engine starts.

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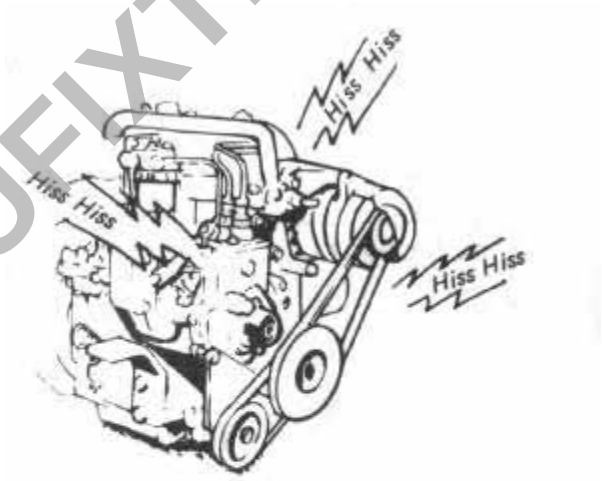
2-e)

Loosen the high pressure pipe from the fuel pump. Turn the engine with the starter motor, and at the same time tighten the cap nut of the high pressure pipe if fuel comes out. Perform the same operation for each cylinder.




2-f)

After bleeding air from all of the cylinders, turn the engine by the starter motor and make sure that the injection sound of the fuel is a strong high pitched "hiss". Be sure each cylinder emits this hissing sound.




**3) Fuel injection timing and spray condition**

**Caution**

Diesel fuel escaping under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure in the system, be sure no connections are damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks. If injured by escaping fluid, see a doctor at once. There can be serious infection or injury if proper medical treatment is not administered immediately.




**Important**

Modification or alteration of the injection pump, the injection pump timing, or the fuel injection valves in ways not recommended by the manufacturer will terminate the warranty obligation to the purchaser.

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