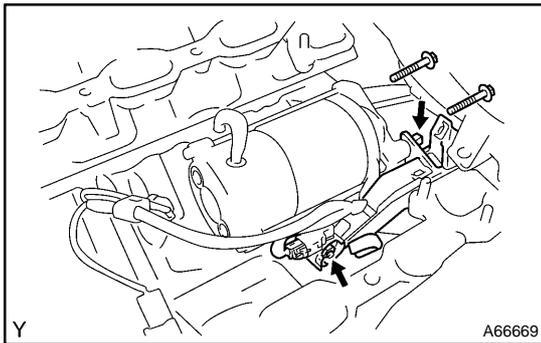


REPLACEMENT

1. **WORK FOR PREVENTING GASOLINE FROM SPILLING OUT (See page 11-1)**
2. **DRAIN ENGINE COOLANT (See page 16-5)**
3. **SEPARATE BATTERY NEGATIVE TERMINAL**
4. **REMOVE THROTTLE BODY COVER SUB-ASSY**
 - (a) Remove the 2 cap nuts and throttle body cover sub-assy.
5. **REMOVE AIR CLEANER HOSE ASSY**
6. **DISCONNECT FUEL HOSE**
7. **DISCONNECT FUEL HOSE NO.2**
8. **DISCONNECT FUEL VAPOR FEED HOSE ASSY**
9. **SEPARATE ENGINE WIRE**
 - (a) Disconnect 8 fuel injector connectors.
 - (b) Disconnect throttle position sensor connector.
 - (c) Disconnect water temperature sensor connector.
 - (d) Remove the 3 bolts and separate engine wire harness.
10. **DISCONNECT WATER BY-PASS HOSE NO.7**
11. **DISCONNECT WATER BY-PASS HOSE**
12. **REMOVE INTAKE MANIFOLD ASSY**
 - (a) Remove the 6 bolts and 4 nuts.
 - (b) Remove the intake manifold assy and 2 gaskets.
13. **REMOVE WATER BY-PASS PIPE SUB-ASSY**
 - (a) Separate the engine wire No. 2.
 - (b) Remove the nut and water by-pass pipe sub-assy.
14. **REMOVE WATER BY-PASS JOINT RR**
 - (a) Remove the 4 nuts, water by-pass joint and 2 gaskets.



15. **REMOVE STARTER ASSY**
 - (a) Disconnect the starter connector.
 - (b) Remove the nut and disconnect the starter cable.
 - (c) Remove the bolt and disconnect the engine wire protector.
 - (d) Remove the 2 bolts and starter.

16. **INSTALL STARTER ASSY**
 - (a) Install the starter assy with the 2 bolts.
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)
 - (b) Connect the engine wire protector with the bolt.
 - (c) Connect the starter cable with the nut.
Torque: 9.8 N·m (100 kgf·cm, 86 in·lbf)
 - (d) Connect the starter connector.

17. INSTALL WATER BY-PASS JOINT RR

- (a) Install 2 new gaskets to the cylinder head.
- (b) Install the 4 nuts holding the water by-pass joint to the cylinder heads. Alternately tighten the nuts.

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

18. INSTALL WATER BY-PASS PIPE SUB-ASSY

- (a) Install a new O-ring to the water by-pass pipe.
- (b) Apply soapy water to the O-ring.
- (c) Push in the water by-pass pipe end into the pipe hole of the water pump.
- (d) Install the water by-pass pipe with the bolt.

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

- (e) Install the wire clamp to the bracket of the water by-pass pipe.

19. INSTALL INTAKE MANIFOLD ASSY

- (a) Install the 2 new gaskets to cylinder head.
- (b) Install the intake manifold assy with the 6 bolts and 2 nuts.

Torque:

Bolt 18 N·m (185 kgf·cm, 13 ft·lbf)

Nut 18 N·m (185 kgf·cm, 13 ft·lbf)

20. CONNECT WATER BY-PASS HOSE**21. CONNECT WATER BY-PASS HOSE NO.7****22. INSTALL ENGINE WIRE**

Torque: 8.2 N·m (83 kgf·cm, 72 in·lbf)

23. CONNECT FUEL VAPOR FEED HOSE ASSY**24. CONNECT FUEL HOSE NO.2****25. CONNECT FUEL HOSE****26. INSTALL AIR CLEANER HOSE ASSY****27. INSTALL THROTTLE BODY COVER SUB-ASSY****28. REFILL ENGINE COOLANT (See page 16-5)****29. CHECK FOR ENGINE COOLANT LEAKS (See page 11-1)****30. INSPECT FUEL LEAK (See page 11-1)**