

## Water Pump Remove and Replace

YMMS: 2008 Mazda CX-9 Grand Touring

Engine: 3.7L Eng

VIN:

Sep 17, 2025

License:

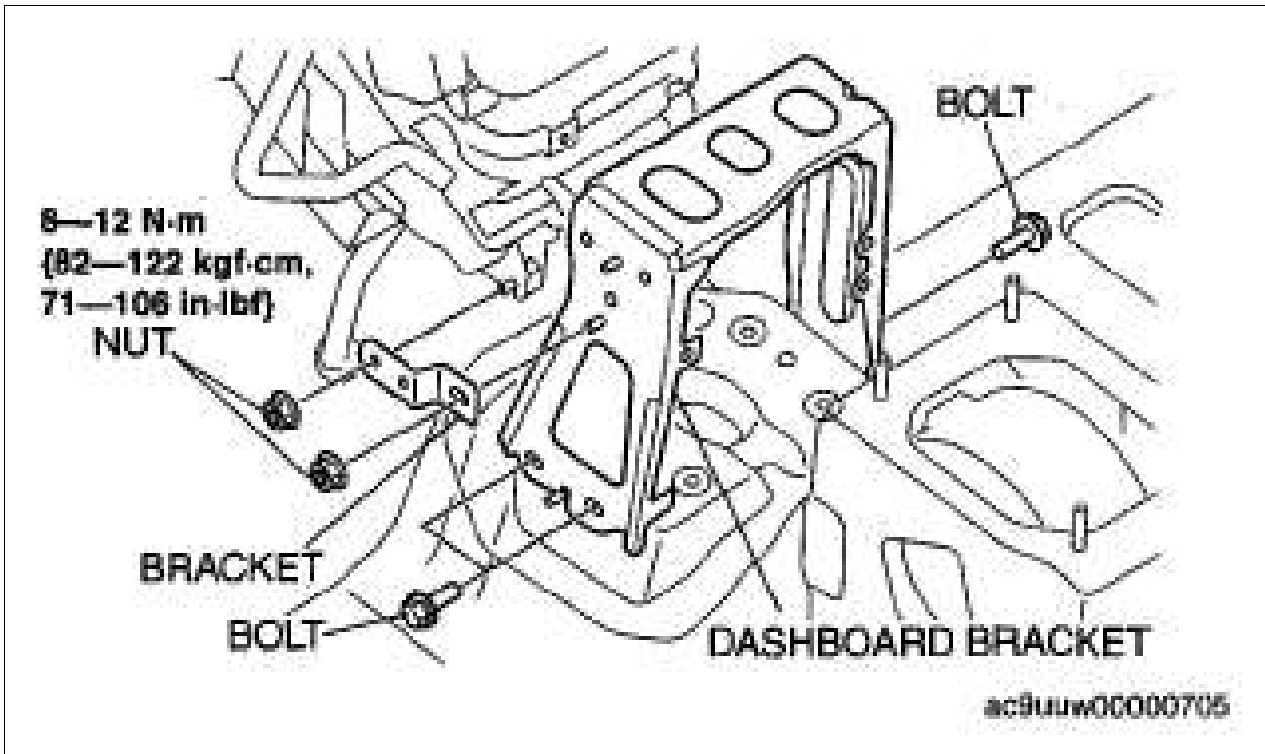
Odometer:

### **FRONT A/C UNIT REMOVAL/INSTALLATION**

1. Disconnect the negative battery cable.
2. Discharge the refrigerant. (See REFRIGERANT CHARGING .)
3. Drain the engine coolant. (See ENGINE COOLANT REPLACEMENT [MZI-3.7] .)
4. Remove the following parts:
  1. Decoration panel (See DECORATION PANEL REMOVAL/INSTALLATION .)
  2. Front console box mat (See FRONT CONSOLE BOX MAT REMOVAL/INSTALLATION .)
  3. Indicator panel (See INDICATOR PANEL REMOVAL/INSTALLATION .)
  4. Front console box (See FRONT CONSOLE BOX REMOVAL/INSTALLATION .)
  5. Dashboard undercover (See DASHBOARD UNDER COVER REMOVAL/INSTALLATION .)
  6. Side wall (See SIDE WALL REMOVAL/INSTALLATION .)
  7. Console panel (See CONSOLE PANEL REMOVAL/INSTALLATION .)
  8. Console cover (See CONSOLE COVER REMOVAL/INSTALLATION .)
  9. Console (See CONSOLE REMOVAL/INSTALLATION .)
  10. Front scuff plate inner (See FRONT SCUFF PLATE REMOVAL/INSTALLATION .)
  11. Front side trim (See FRONT SIDE TRIM REMOVAL/INSTALLATION .)
  12. Glove compartment (See GLOVE COMPARTMENT REMOVAL/INSTALLATION .)
  13. Hood release lever (See HOOD LATCH AND RELEASE LEVER REMOVAL/INSTALLATION .)
  14. Lower panel (See LOWER PANEL REMOVAL/INSTALLATION .)
  15. Lower column cover (See COLUMN COVER REMOVAL/INSTALLATION .)
  16. Driver-side air bag module (See DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION .)
  17. Steering wheel (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION .)
  18. Combination switch (See COMBINATION SWITCH REMOVAL/INSTALLATION .)
  19. Center panel (See CENTER PANEL REMOVAL/INSTALLATION .)
  20. Meter hood (See METER HOOD REMOVAL/INSTALLATION .)
  21. Instrument cluster (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION .)

22. Audio unit (See AUDIO UNIT REMOVAL/INSTALLATION .)
23. Steering shaft (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION .)
24. A-pillar trim (See A-PILLAR TRIM REMOVAL/INSTALLATION .)
25. Side panel (See SIDE PANEL REMOVAL/INSTALLATION .)
5. Disconnect the front door wiring harness connector (Driver side). (See FRONT DOOR MODULE REMOVAL/INSTALLATION .)
6. Remove the brake switch from the brake pedal with the brake switch connector connected. (See BRAKE PEDAL REMOVAL/INSTALLATION .)
7. Remove the selector lever component. (See SELECTOR LEVER COMPONENT REMOVAL/INSTALLATION .)
8. Remove the windshield wiper arm. (See WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION .)
9. Remove the cowl grille. (See COWL GRILLE REMOVAL/INSTALLATION .)
10. Remove the windshield wiper motor. (See WINDSHIELD WIPER MOTOR REMOVAL/INSTALLATION .)
11. Remove the dashboard. (See DASHBOARD REMOVAL/INSTALLATION .)
12. Remove the rear heat duct fasteners and slide the rear heat duct rearward. (See REAR HEAT DUCT COMPONENT REMOVAL/INSTALLATION.)
13. Disconnect the drain hose.
14. Remove the nuts.
15. Remove the bracket.
16. Remove the bolts.
17. Remove the dashboard bracket.

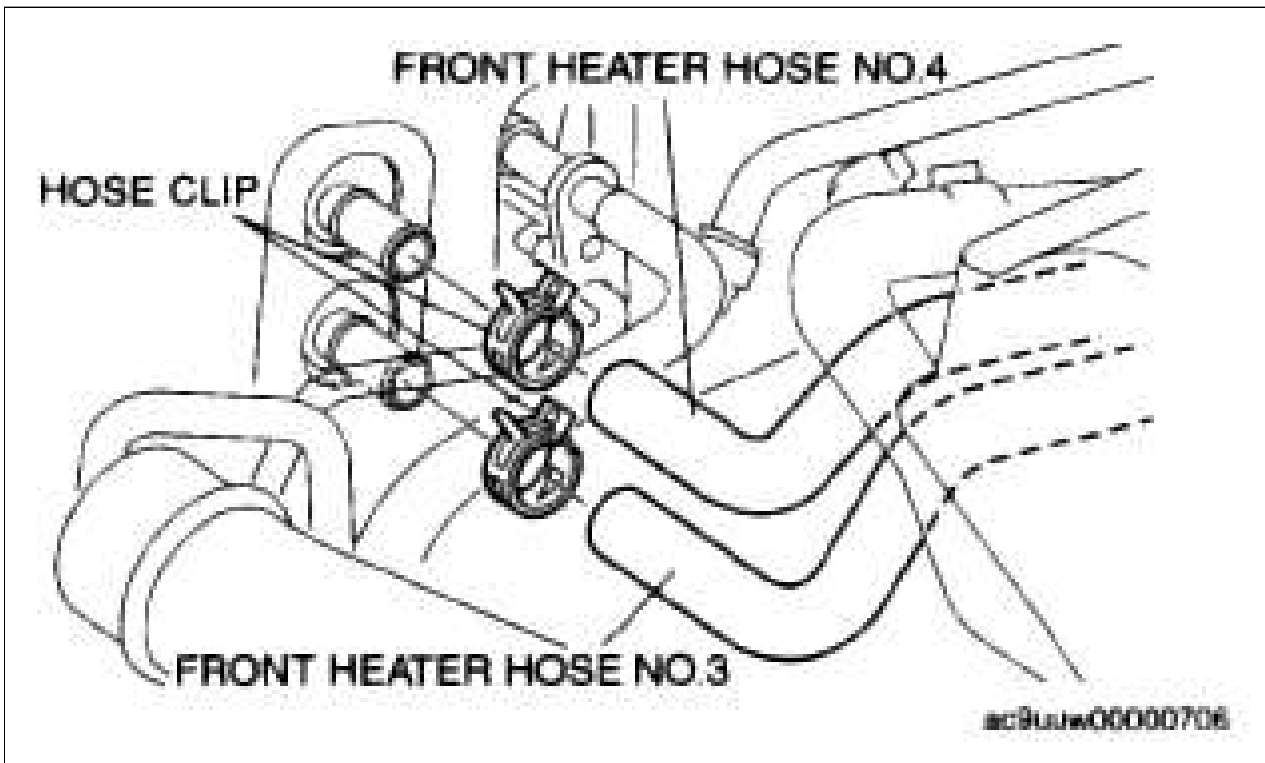
Fig 1: Dashboard Bracket, Nuts, Bolts With Torque Specifications



18. Remove the hose clips.

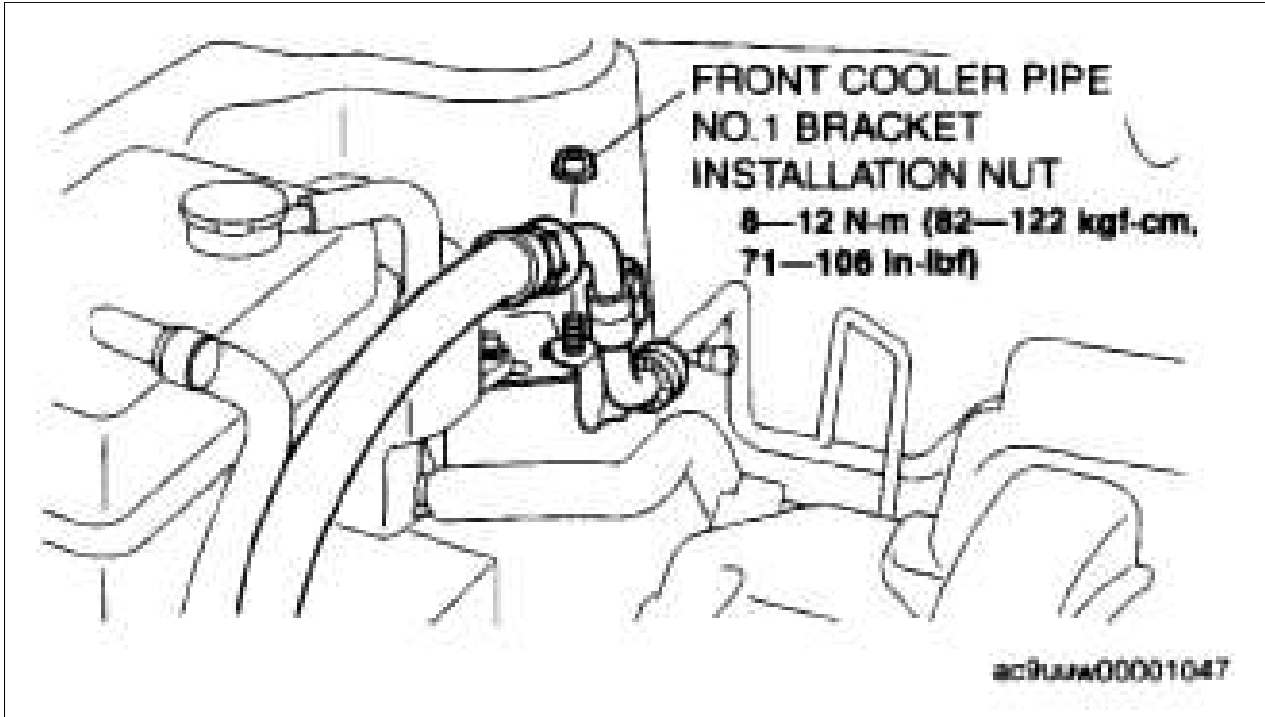
19. Remove the front heater hose No.3 and front heater hose No.4. (See HEATER PIPE AND HOSE COMPONENT REMOVAL/INSTALLATION.)

Fig 2: Identifying Hose Clips Of Front Heater Hose No.3 & Front Heater Hose No.4



20. Remove the front cooler pipe No.1 bracket installation nut.

Fig 3: Front Cooler Pipe No.1 Bracket Installation Nut With Torque Specifications



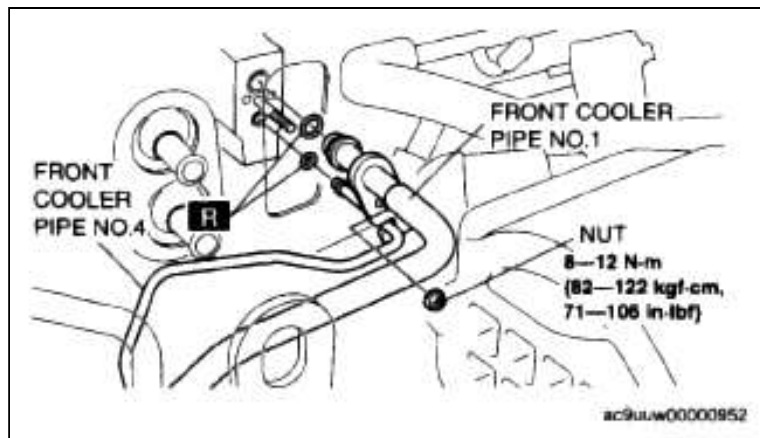
21. Remove the nut.

22. Remove the front cooler pipe No.1 and front cooler pipe No.4. (See REFRIGERANT LINE REMOVAL/INSTALLATION.)

**CAUTION:**

1. If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise or other malfunction could occur. Always plug open fittings immediately after removing any refrigeration cycle parts.

Fig 4: Front Cooler Pipe No.1, Front Cooler Pipe No.4 With Torque Specifications



23. Remove the nuts.

24. Remove the front A/C unit. Do not allow compressor oil to spill.

Fig 5: Front A/C Unit Nuts With Torque Specifications

