ILLUSTRATION
Specified torque

- [N\text{m} (kgf\text{cm}, \text{ft}.'\text{lbf})]
ON-VEHICLE INSPECTION

1. CHECK RESERVE TANK CAP (for Engine)

(a) Measure the valve opening pressure.

(1) If there are water stains or foreign matter on O-ring 1, clean it with water and finger scouring.

(2) Check that O-ring 1 is not deformed, cracked or swollen.

(3) Apply engine coolant to O-ring 1 and rubber packing 2 before using a radiator cap tester.

(4) When using the cap tester, tilt it upwards 30 degrees or more.

(5) Pump the cap tester several times, and check the maximum pressure*1.

Text in Illustration

<table>
<thead>
<tr>
<th></th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>*1</td>
<td>Radiator Cap Tester</td>
</tr>
<tr>
<td>*2</td>
<td>Radiator Cap</td>
</tr>
</tbody>
</table>

Pumping speed:

1 pump per second

HINT:

*1: Even if the cap cannot maintain the maximum pressure, it is not a defect.

Judgment Criterion:

<table>
<thead>
<tr>
<th>Item</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard value (for brand-new cap)</td>
<td>94 to 122 kPa (1.0 to 1.2 kgf/cm², 13.5 to 17 psi)</td>
</tr>
<tr>
<td>Minimum standard value (after using cap)</td>
<td>79 kPa (0.8 kgf/cm², 11.4 psi)</td>
</tr>
</tbody>
</table>

If the maximum pressure is less than the minimum standard value, replace the radiator cap sub-assembly.
REMOVAL

1. REMOVE RADIATOR SUPPORT OPENING COVER

2. REMOVE REAR NO. 2 FLOOR BOARD (for Separate Type)

3. REMOVE REAR DECK FLOOR BOX

4. REMOVE REAR NO. 3 FLOOR BOARD

5. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected.

6. REMOVE NO. 1 ENGINE UNDER COVER

7. DRAIN ENGINE COOLANT (for Engine)

8. DISCONNECT NO. 1 RADIATOR HOSE

   (a) Disconnect the No. 1 radiator hose from the radiator assembly.

9. DISCONNECT NO. 2 RADIATOR HOSE

   (a) Disconnect the No. 2 radiator hose from the radiator assembly.

10. REMOVE FRONT BUMPER ASSEMBLY
11. REMOVE MILLIMETER WAVE RADAR SENSOR ASSEMBLY (w/ Dynamic Radar Cruise Control System)

12. REMOVE MILLIMETER WAVE RADAR SENSOR BRACKET

13. REMOVE NO. 1 INVERTER BRACKET

14. REMOVE HOOD LOCK SUPPORT SUB-ASSEMBLY

(a) Disconnect the water by-pass hose clamp from the radiator support RH.

(b) Disconnect the hood lock connector and hood lock control cable wire.

(c) Disconnect the 3 wire harness clamps.

(d) Disconnect the connector from the No. 2 cooling fan motor.

(e) Disconnect the 2 wire harness clamps and connector from the fan shroud and cooling fan motor.
(f) Disconnect the 2 horn connectors.

(g) Remove the 2 bolts, radiator support RH and radiator support LH with the 2 cushions from the upper radiator support.

(h) Remove the 4 bolts and upper radiator support.
15. REMOVE AIR CLEANER CAP SUB-ASSEMBLY

16. REMOVE INLET AIR CLEANER ASSEMBLY

17. REMOVE AIR CLEANER CASE

18. REMOVE NO. 2 FAN SHROUD

(a) Disconnect the No. 1 water by-pass hose from the radiator assembly.

(b) Disconnect the water by-pass hose from the radiator assembly.

(c) Disconnect the 6 water by-pass hose clamps from the No. 2 fan shroud.

(d) Remove the 2 bolts and No. 2 fan shroud from the radiator assembly.
19. REMOVE RADIATOR ASSEMBLY

(a) Remove the radiator assembly with the fan shroud.

NOTICE:
For vehicles with the air conditioning system, do not apply any excessive force to the cooler condenser assembly or pipe when removing the radiator assembly.

(b) Remove the 2 lower radiator supports.

(c) Remove the 2 bolts.

(d) Remove the fan shroud from the radiator assembly.
INSTALLATION

1. INSTALL RADIATOR ASSEMBLY

(a) Install the 2 bolts.
Torque: 7.0 N·m (71 kgf·cm, 62in·lbf)

(b) Install the fan shroud to the radiator assembly.

(c) Install the 2 lower radiator supports.

(d) Install the radiator assembly with the fan shroud.

NOTICE:
For vehicles with the air conditioning system, do not apply any excessive force to the cooler condenser assembly or pipe when installing the radiator assembly.

2. INSTALL NO. 2 FAN SHROUD

(a) Install the No. 2 fan shroud with the 2 bolts.

Torque: 7.0 N·m (71 kgf·cm, 62in·lbf)
(b) Connect the 6 water by-pass hose clamps to the No. 2 fan shroud.

(c) Connect the water by-pass hose to the radiator assembly.

(d) Connect the No. 1 water by-pass hose to the radiator assembly.

3. INSTALL AIR CLEANER CASE

4. INSTALL INLET AIR CLEANER ASSEMBLY
5. INSTALL AIR CLEANER CAP SUB-ASSEMBLY

6. INSTALL HOOD LOCK SUPPORT SUB-ASSEMBLY

(a) Install the upper radiator support with the 4 bolts.

Torque: $13 \text{ N} \cdot \text{m} (133 \text{ kgf} \cdot \text{cm}, 10\text{ft} \cdot \text{lbf})$

(b) Install the 2 cushions to the radiator support RH and radiator support LH.

(c) Install the radiator support RH and radiator support LH with the 2 bolts.

Torque: $19 \text{ N} \cdot \text{m} (194 \text{ kgf} \cdot \text{cm}, 14\text{ft} \cdot \text{lbf})$

(d) Connect the 2 horn connectors.

(e) Connect the 2 wire harness clamps and connector to the fan shroud and cooling fan motor.
(f) Connect the connector to the No. 2 cooling fan motor.

(g) Connect the hood lock connector and hood lock control cable wire.

(h) Connect the 3 wire harness clamps.

(i) Connect the water by-pass hose clamp to the radiator support RH.

7. INSTALL NO. 1 INVERTER BRACKET

8. INSTALL MILLIMETER WAVE RADAR SENSOR BRACKET

9. INSTALL MILLIMETER WAVE RADAR SENSOR ASSEMBLY (w/ Dynamic Radar Cruise Control System)
10. INSTALL FRONT BUMPER ASSEMBLY

11. CONNECT NO. 2 RADIATOR HOSE

(a) Connect the No. 2 radiator hose to the radiator assembly with the clamp.

12. CONNECT NO. 1 RADIATOR HOSE

(a) Connect the No. 1 radiator hose to the radiator assembly with the clamp.

13. ADD ENGINE COOLANT (for Engine)

14. INSPECT FOR COOLANT LEAK (for Engine)

15. INSTALL NO. 1 ENGINE UNDER COVER

16. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected.

17. INSTALL REAR NO. 3 FLOOR BOARD

18. INSTALL REAR DECK FLOOR BOX

19. INSTALL REAR NO. 2 FLOOR BOARD (for Separate Type)

20. INSTALL RADIATOR SUPPORT OPENING COVER

21. ADD WASHER FLUID (w/ Headlight Cleaner System)
22. PREPARE VEHICLE FOR FOG LIGHT AIM ADJUSTMENT (w/ Fog Light)
23. PREPARE FOR FOG LIGHT AIMING
24. INSPECT FOG LIGHT AIMING
25. ADJUST FOG LIGHT AIMING