2009 ENGINE

Fuel (2GR-FE) - Highlander

FUEL SYSTEM

PRECAUTION

1. **DISCHARGE FUEL SYSTEM PRESSURE**

CAUTION:

- **Perform the following procedures to prevent fuel from spilling out before removing any fuel system parts.**
- **Pressure will still remain in the fuel lines even after performing the following procedures. When disconnecting a fuel line, cover it with a shop rag or a piece of cloth to prevent fuel from spraying or coming out.**

a. For work associated with removal of the FUEL PUMP relay:

1. Remove the relay block cover.
2. Remove the FUEL PUMP relay.
3. Start the engine.
4. After the engine stops, turn the ignition switch off.

   HINT:

   DTC P0171/25 (fuel problem) may be detected.

5. Crank the engine again. Check that the engine does not start.
6. Remove the fuel tank cap to discharge pressure from the fuel tank.
7. Disconnect the cable from the negative (-) battery terminal.

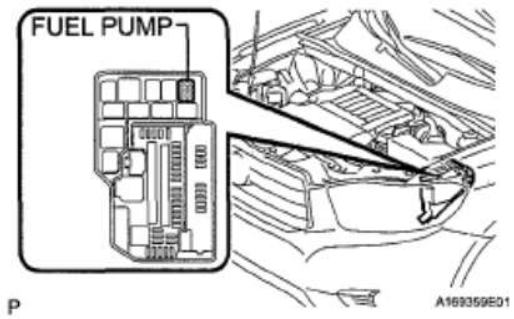


Fig. 1: Identifying Fuel Pump Relay
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. Install the FUEL PUMP relay.

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b. Perform the following to disconnect the fuel pump connector:
   1. Remove the rear No. 1 seat assembly (for LH side) (See **REMOVAL**).
   2. Remove the rear No. 1 seat assembly (for RH side) (See **REMOVAL**).
   3. Using a clip remover, remove the 3 clips and lift up the front floor carpet. (w/ rear No. 2 seat)

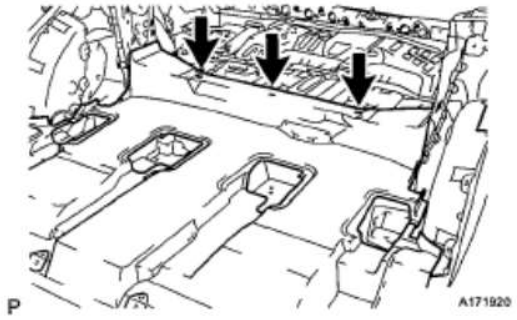


Fig. 2: Locating Clips And Front Floor Carpet
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   4. Disengage the 3 claws and lift up the front floor carpet. (w/o rear No. 2 seat)

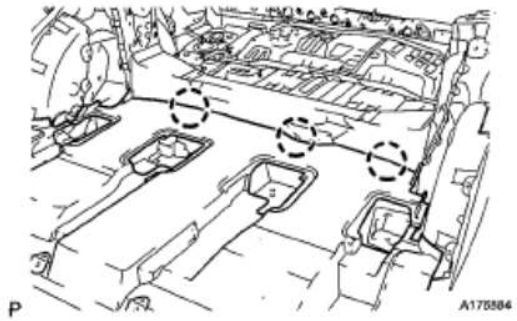


Fig. 3: Identifying Claws And Front Floor Carpet
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   5. Remove the rear floor service hole cover.

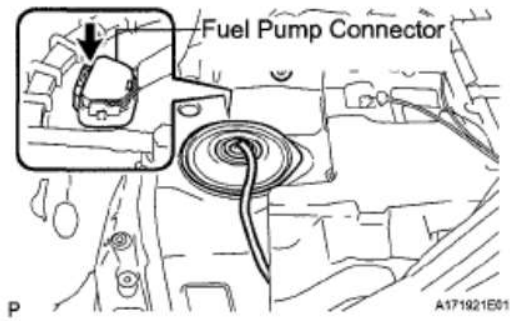


Fig. 4: Locating Rear Floor Service Hole Cover

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. Disconnect the fuel pump connector.
7. Start the engine.
8. After the engine stops, turn the ignition switch off.

   HINT:

   DTC P0171/25 (fuel problem) may be detected.

9. Crank the engine again. Check that the engine does not start.
10. Remove the fuel tank cap to discharge pressure from the fuel tank.
11. Disconnect the cable from the negative (-) battery terminal.
12. Reconnect the fuel pump connector.
13. Install the rear floor service hole cover.

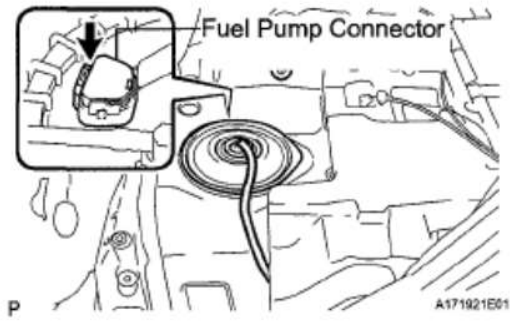


Fig. 5: Locating Rear Floor Service Hole Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

14. Install the front floor carpet and the 3 clips. (w/ rear No. 2 seat)

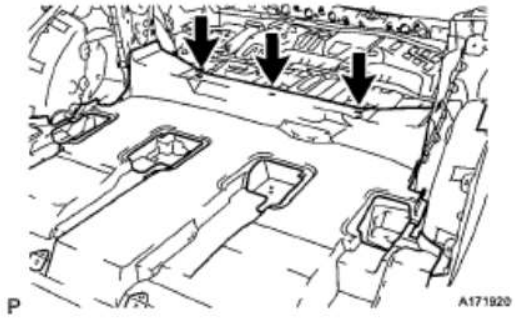


Fig. 6: Locating Front Floor Carpet And Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

15. Engage the 3 claws to install the front floor carpet. (w/o rear No. 2 seat)

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16. Install the rear No. 1 seat assembly (for LH side) (See **INSTALLATION**).
17. Install the rear No. 1 seat assembly (for RH side) (See **INSTALLATION**).

2. **PRECAUTIONS**
   a. Before inspecting and repairing the fuel system, disconnect the cable from the negative (-) battery terminal.
   b. Do not smoke or work near fire when handling the fuel system.
   c. Keep gasoline away from rubber or leather parts.

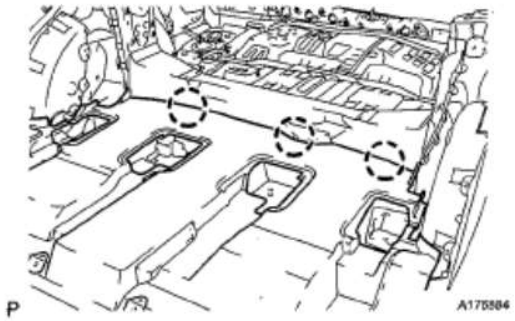


Fig. 7: Identifying Claws And Front Floor Carpet
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **FUEL LINE**
   a. When disconnecting a high pressure fuel line, a large amount of gasoline will spill out, so observe the following procedures:
      1. Discharge fuel system pressure.
      2. Disconnect the fuel pump tube (See **REMOVAL**).
      3. Drain the fuel that remains in the fuel pump tube.
      4. To protect the disconnected fuel pump tube from damage and contamination, cover it with a plastic bag.
      5. Put a container under the connectors.

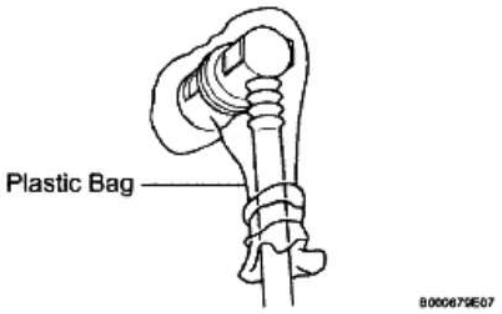


Fig. 8: Covering Fuel Pump Main Tube From Plastic Bag
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b. Observe these precautions when disconnecting the fuel tube connector.
   1. Remove the fuel pipe clamp.
   2. Check whether there is any dirt in the pipe around the connector before disconnecting it and remove the dirt as necessary.

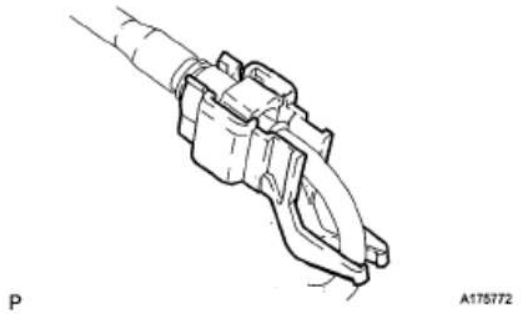


Fig. 9: Identifying Fuel Pipe Clamp
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   3. Disconnect the connector from the pipe by hand.

NOTE: Be sure to disconnect the connector by hand.

   4. If the connector and the pipe are stuck, push in and pull on the connector to release it. Pull the connector out of the pipe carefully.

NOTE: Be sure to disconnect the connector by hand.

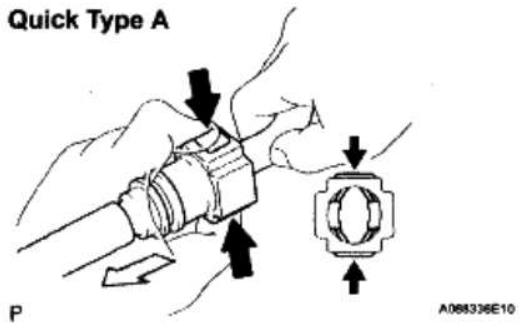


Fig. 10: Pushing Fuel Tube Connector (Quick Type A)
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   5. Check that there is no dirt or other foreign objects on the sealing surface of the disconnected pipe. Clean the surfaces if necessary.
   6. Do not damage the disconnected pipe or connector. Prevent entry of foreign objects by covering them with a plastic bag.

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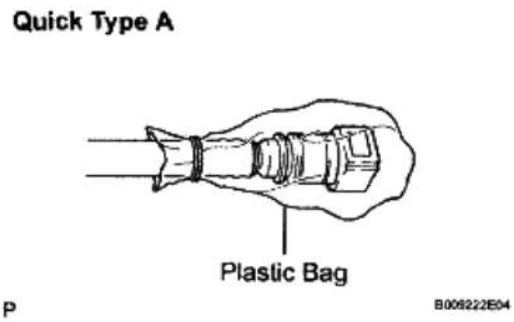


Fig. 11: Covering Pipe And Connector With Plastic Bag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Observe the following precautions when connecting the fuel tube connectors (Quick Type A):
   1. Check if there is any damage or foreign objects on the connecting parts of the pipes.
   2. Line up the 2 parts of the pipes to be connected, and push them together until the connector makes a "click" sound. If the pipe is difficult to push into the connector, apply a small amount of clean engine oil to the tip of the pipe and reinsert it.
   3. After connecting the pipes, check that the pipe and connector are securely connected by pulling on them.
   4. Check for fuel leaks.

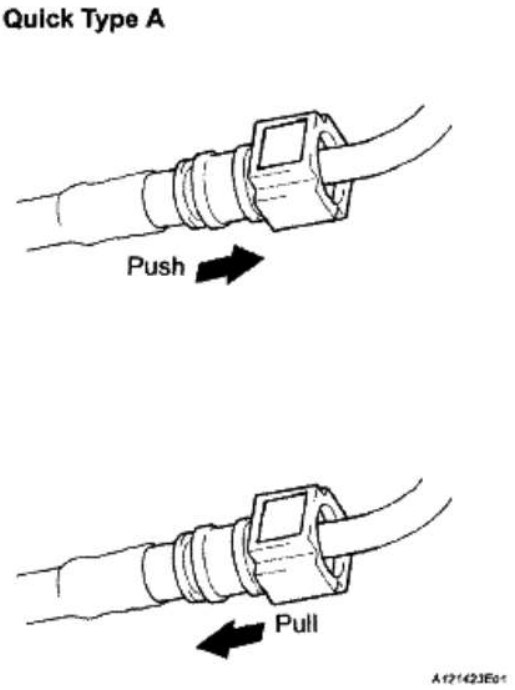


Fig. 12: Push Pipe Into Connector
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d. Observe the following precautions when disconnecting the fuel tube connector (Quick type B):

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1. Before disconnecting the connector, clean off any dirt that may be present.
2. Pinch the tabs of the fuel tube retainer to disengage the 2 claws. Push the retainer down as shown in the illustration.

NOTE: Be sure to disconnect the connector by hand.

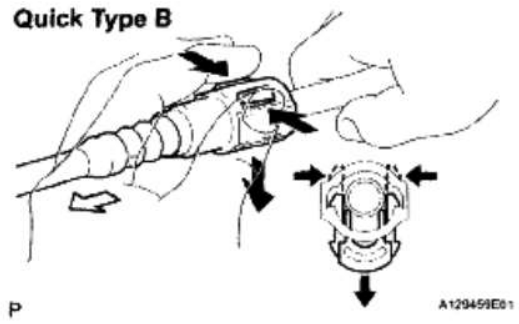


Fig. 13: Detaching Claws Of Connector Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. If the connector and pipe are stuck, push and pull on the connector while holding the pipe by hand. Pull the 2 pipes apart to separate the connector.

NOTE: Be sure to disconnect the connector by hand.

4. Check if there is any dirt or other foreign objects on the sealing surfaces of the disconnected pipes. Clean the sealing surfaces if necessary.

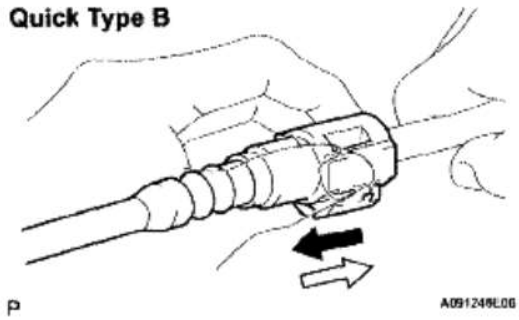


Fig. 14: Checking Connector Connection
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5. Do not damage the disconnected pipe or connector. Prevent entry of foreign objects by covering them with a plastic bag.

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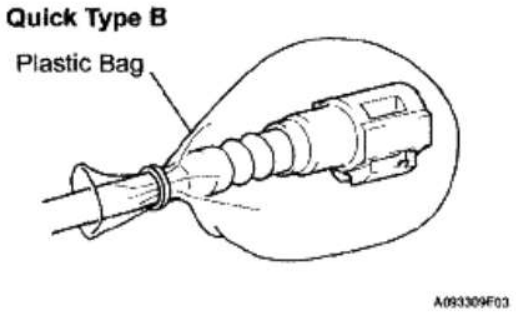


Fig. 15: Covering Connector And Pipe With Plastic Bag (Quick Type B)
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e. Observe the following precautions when connecting the fuel tube connector (Quick Type B):
   1. Line up the 2 parts of the pipes to be connected, and fully push the fuel tube connector and pipe together until they are fully seated. Next, push the retainer into the connector until its claws lock. If the pipe is difficult to push into the connector, apply a small amount of clean engine oil to the tip of the pipe and reinsert it.
   2. After connecting the pipes, check that the pipe and connector are securely connected by pulling on them.
   3. Check for fuel leaks.

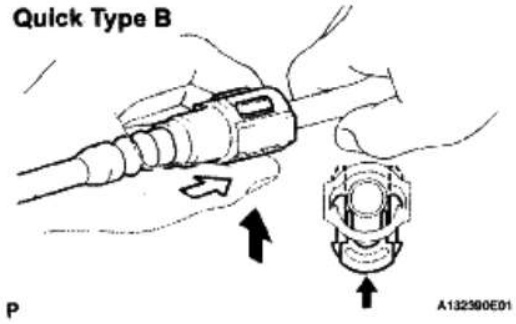


Fig. 16: Disconnecting Fuel Tube Connector (Quick Type B)
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f. Observe the following precautions when handling a nylon tube:

CAUTION:
- **Do not twist the connector part of the nylon tube or the quick connector when connecting them.**
- **Do not bend or twist the nylon tube.**
- **Do not remove the EPDM protector on the outside of the nylon tube.**
- **Do not pinch or kink the nylon tubes to prevent fuel leakage.**

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4. **INJECTOR**
   a. Install the injector to the delivery pipe and the lower intake manifold as shown in the illustration.

NOTE: Before installing the injector, be sure to apply appropriate lubricant or gasoline where the delivery pipe or cylinder head contacts the injector O-rings.

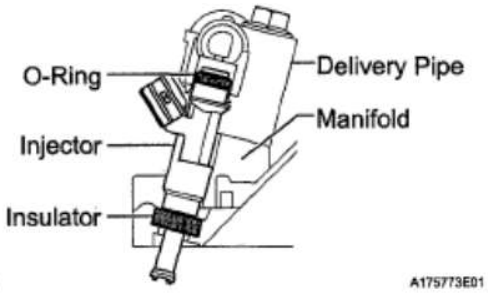


Fig. 17: Identifying Injector Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Observe the following precautions when removing and installing the fuel injectors:
      1. Never reuse an O-ring.
      2. When placing a new O-ring on the injector, do not damage the O-ring.
      3. Coat a new O-ring with spindle oil or gasoline before installing it.

NOTE: Do not use engine oil, gear oil or brake fluid.

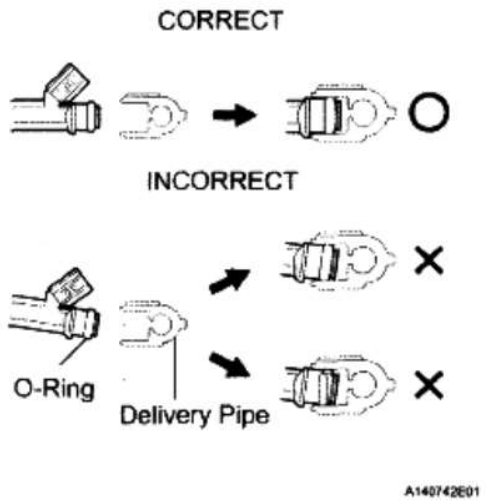


Fig. 18: Identifying Injector O-Ring
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **FUEL SUCTION TUBE ASSEMBLY WITH PUMP AND GAUGE**

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a. Do not disconnect the tube shown in the illustration when disassembling the fuel suction tube assembly with pump and gauge. Doing so will cause reassembly of the fuel suction tube assembly with pump and gauge to be impossible as the tube is welded to the plate.

6. **INSPECT FOR FUEL LEAK**

a. Check that there are no fuel leaks from the fuel system after doing any maintenance or repairs (See **ON-VEHICLE INSPECTION**).

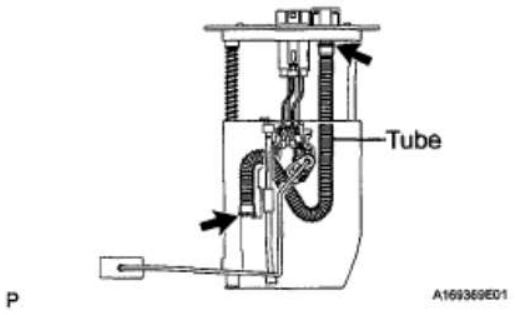
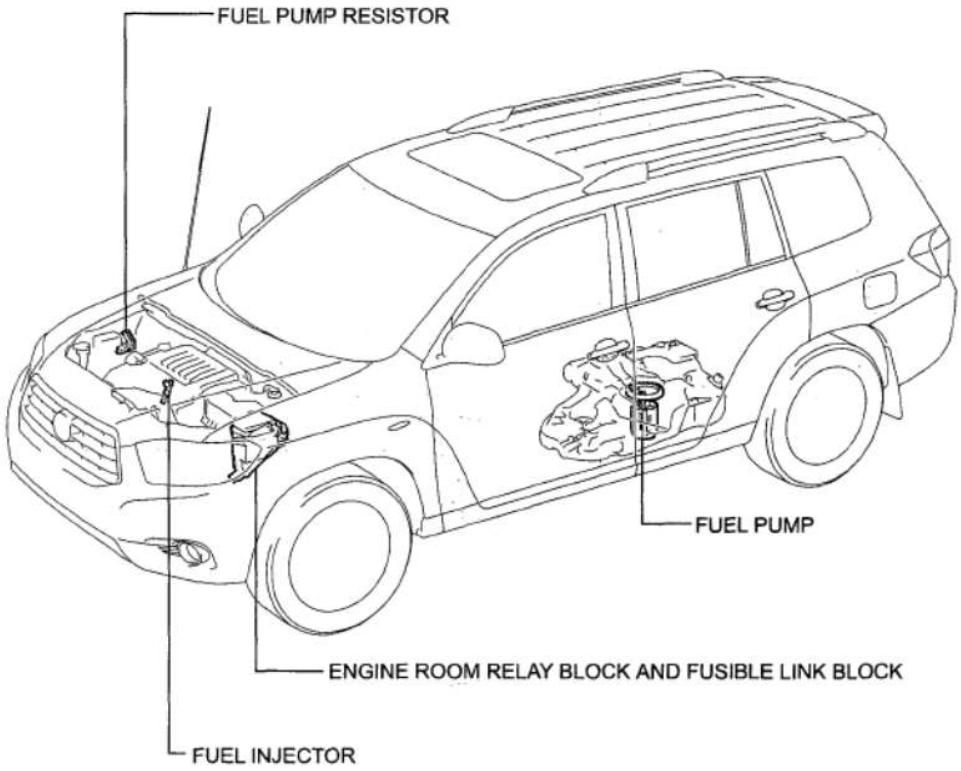


Fig. 19: Locating Fuel Suction Tube
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PARTS LOCATION

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Fig. 20: Identifying Fuel System Parts Location
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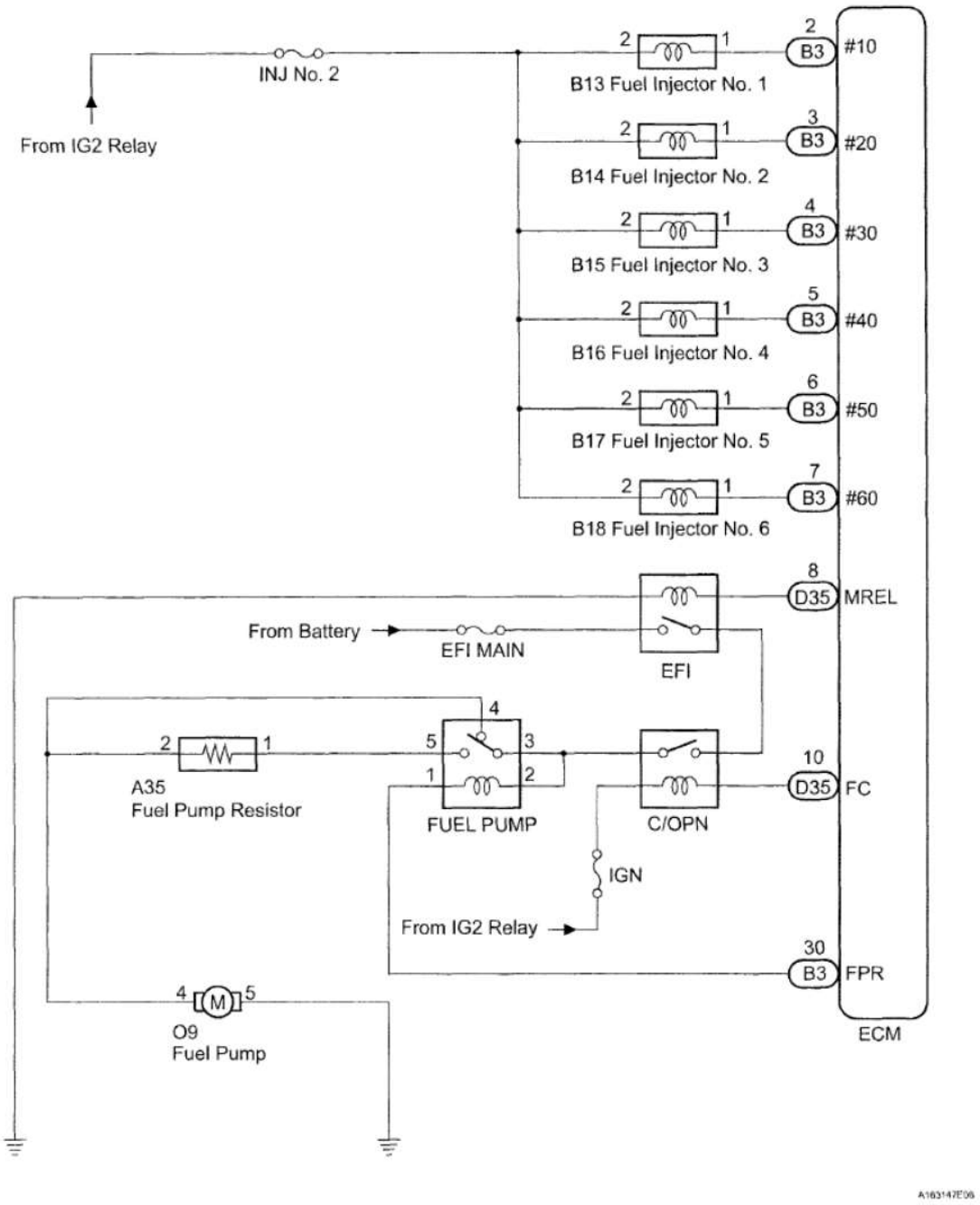


Fig. 21: Fuel System - System Diagram
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ON-VEHICLE INSPECTION

1. **CHECK FOR FUEL PUMP OPERATION AND FUEL LEAKS**
   a. Check fuel pump operation.
      1. Connect Techstream to the DLC3.

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2. Turn the ignition switch on (IG) and turn the tester main switch on.

NOTE: Do not start the engine.

3. Select the following menu items: DIAGNOSIS/ENHANCED OBD II/ACTIVE TEST/FUEL PUMP/SPD.
4. Check for pressure in the fuel inlet tube from the fuel line. Check that sounds of fuel flowing from the fuel tank can be heard. If no sounds can be heard, check the integration relay, fuel pump, ECM and wiring connectors.

b. Check for fuel leaks.
1. Check that there are no fuel leaks from the fuel system after doing any maintenance or repairs. If there is a fuel leak, repair or replace parts as necessary.

c. Turn the ignition switch off.
d. Disconnect Techstream from the DLC3.

2. **CHECK FUEL PRESSURE**

a. Discharge the fuel system pressure (See **FUEL SYSTEM**).
b. Using a voltmeter, measure the battery voltage.

Standard voltage:

11 to 14 V

c. Disconnect the cable from the negative (-) battery terminal.
d. Disconnect the fuel hose from the fuel main tube (See **FUEL SYSTEM**).
e. Install SST (pressure gauge) using SST and a fuel tube connector as shown in the illustration.

SST 09268-31011 (09268-41500, 90467-13001, 95336-08070), 09268-45014 (09268-41200, 09268-41220, 09268-41250)

f. Wipe up any spilled gasoline.
g. Connect the cable to the negative (-) battery terminal.
h. Connect Techstream to the DLC3.
i. Select the following menu items: DIAGNOSIS/ENHANCED OBD II/ACTIVE TEST/FUEL PUMP/SPD.
j. Measure the fuel pressure.

Fuel pressure:

304 to 343 kPa (3.1 to 3.5 kgf*cm^2 , 44.1 to 49.7 psi)

- If the fuel pressure is greater than the standard value, replace the fuel pressure regulator.
- If the fuel pressure is less than the standard value, check the fuel hoses and connections, fuel pump, fuel filter and fuel pressure regulator.

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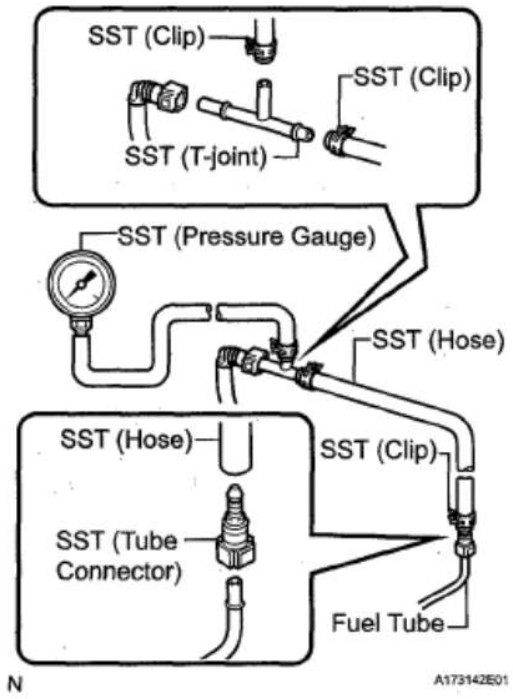


Fig. 22: Installing SST (Pressure Gauge) Using SST And Fuel Tube Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

k. Disconnect Techstream from the DLC3.
l. Start the engine.
m. Measure the fuel pressure at idle.

Fuel pressure:

304 to 343 kPa (3.1 to 3.5 kgf*cm^2 , 44.1 to 49.7 psi)

n. Stop the engine.
o. Check that the fuel pressure remains as specified for 5 minutes after the engine stops.

Fuel pressure:

147 kPa (1.5 kgf*cm^2 , 21 psi) or more

If the fuel pressure is not as specified, check the fuel pump, pressure regulator and/or fuel injectors.

p. After checking the fuel pressure, disconnect the cable from the negative (-) battery terminal and carefully remove SST to prevent gasoline from splashing.
q. Reconnect the fuel tube to the main fuel tube (fuel tube connector).
r. Install the No. 1 fuel pipe clamp to the fuel tube connector.
s. Check for fuel leaks.

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1. Check that there are no fuel leaks from the fuel system after doing any maintenance or repairs. If there is a fuel leak, repair or replace parts as necessary.

FUEL INJECTOR

COMPONENTS

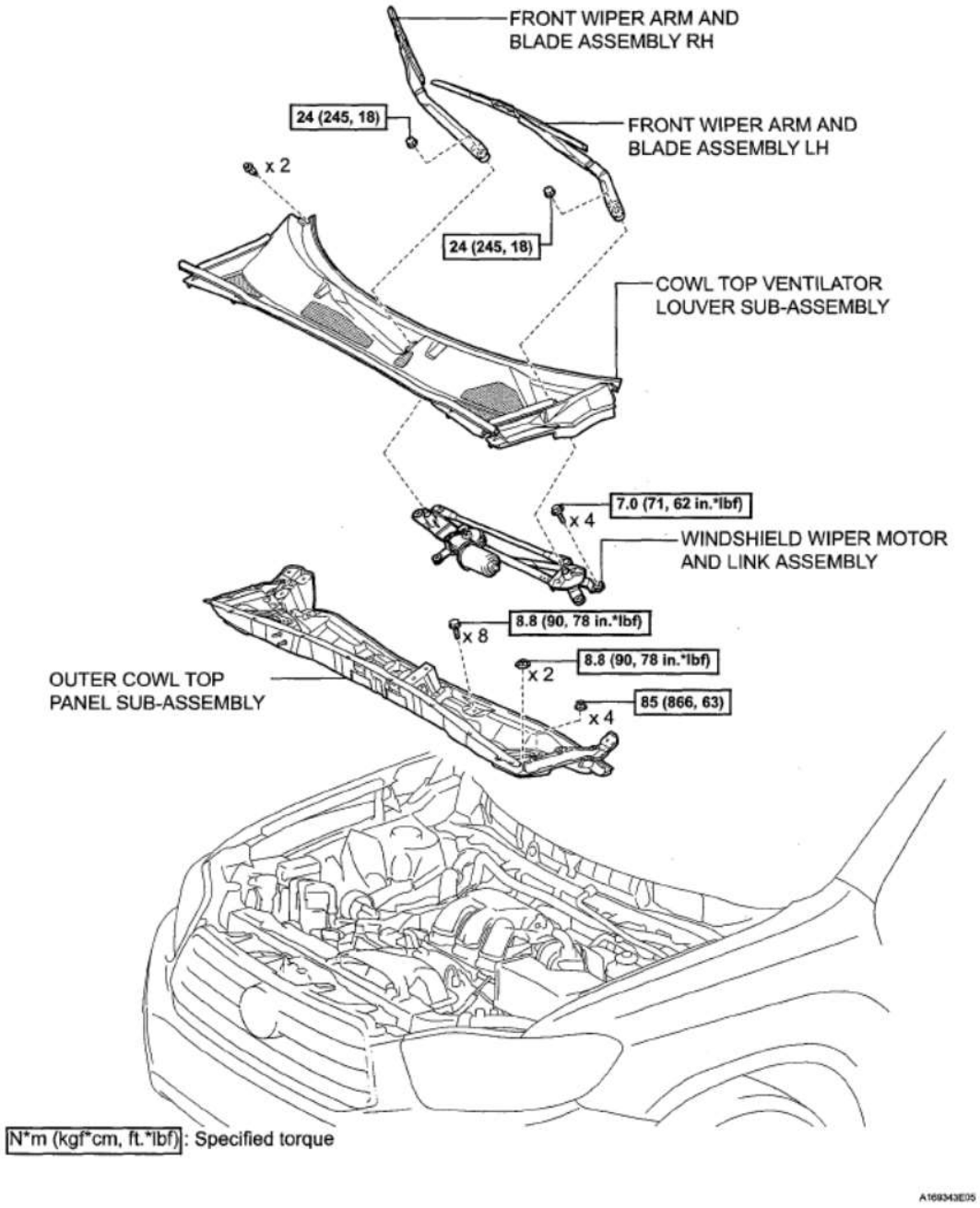


Fig. 23: Identifying Fuel Injector Components And Torque Specifications (1 Of 3)
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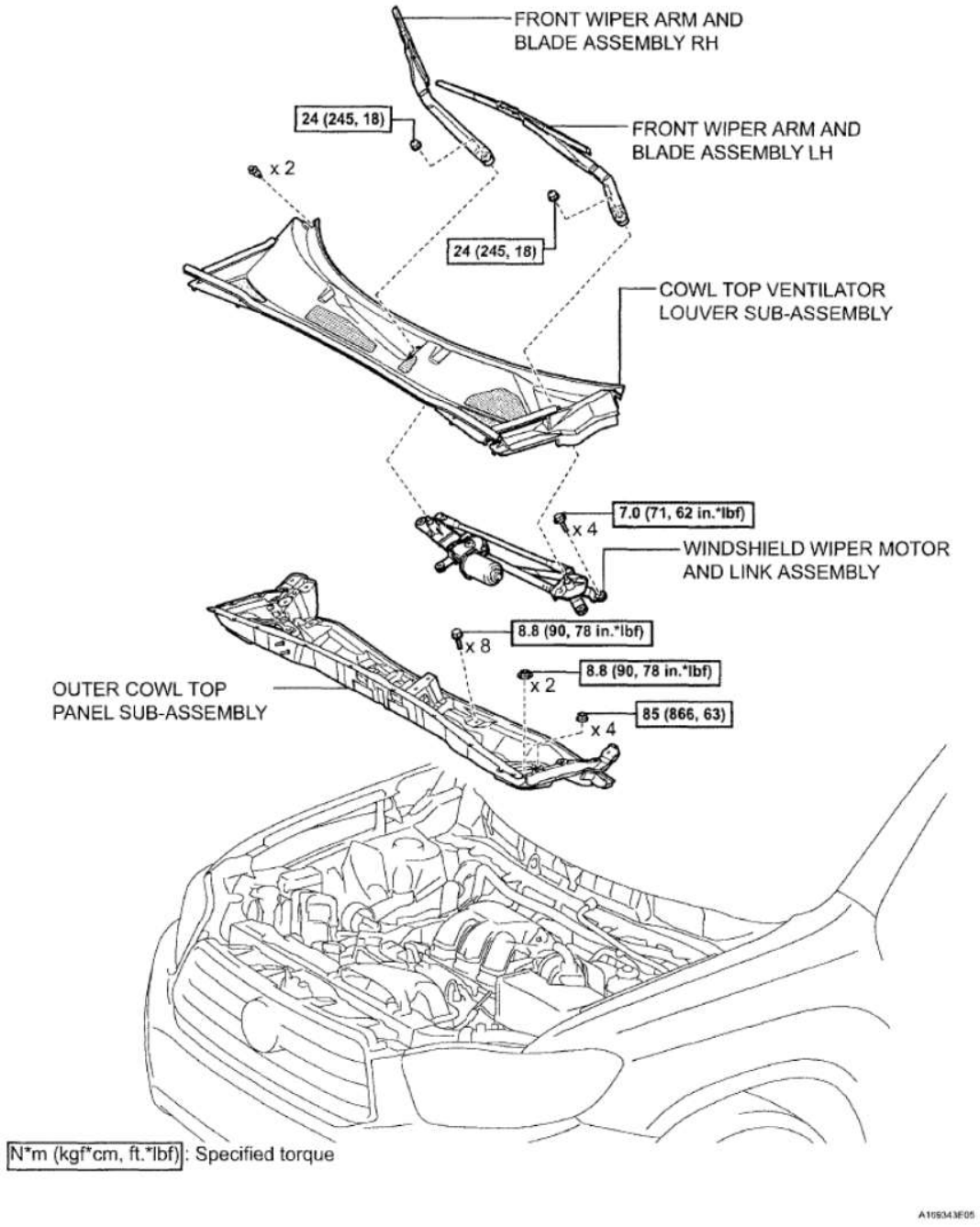


Fig. 24: Identifying Fuel Injector Components And Torque Specifications (2 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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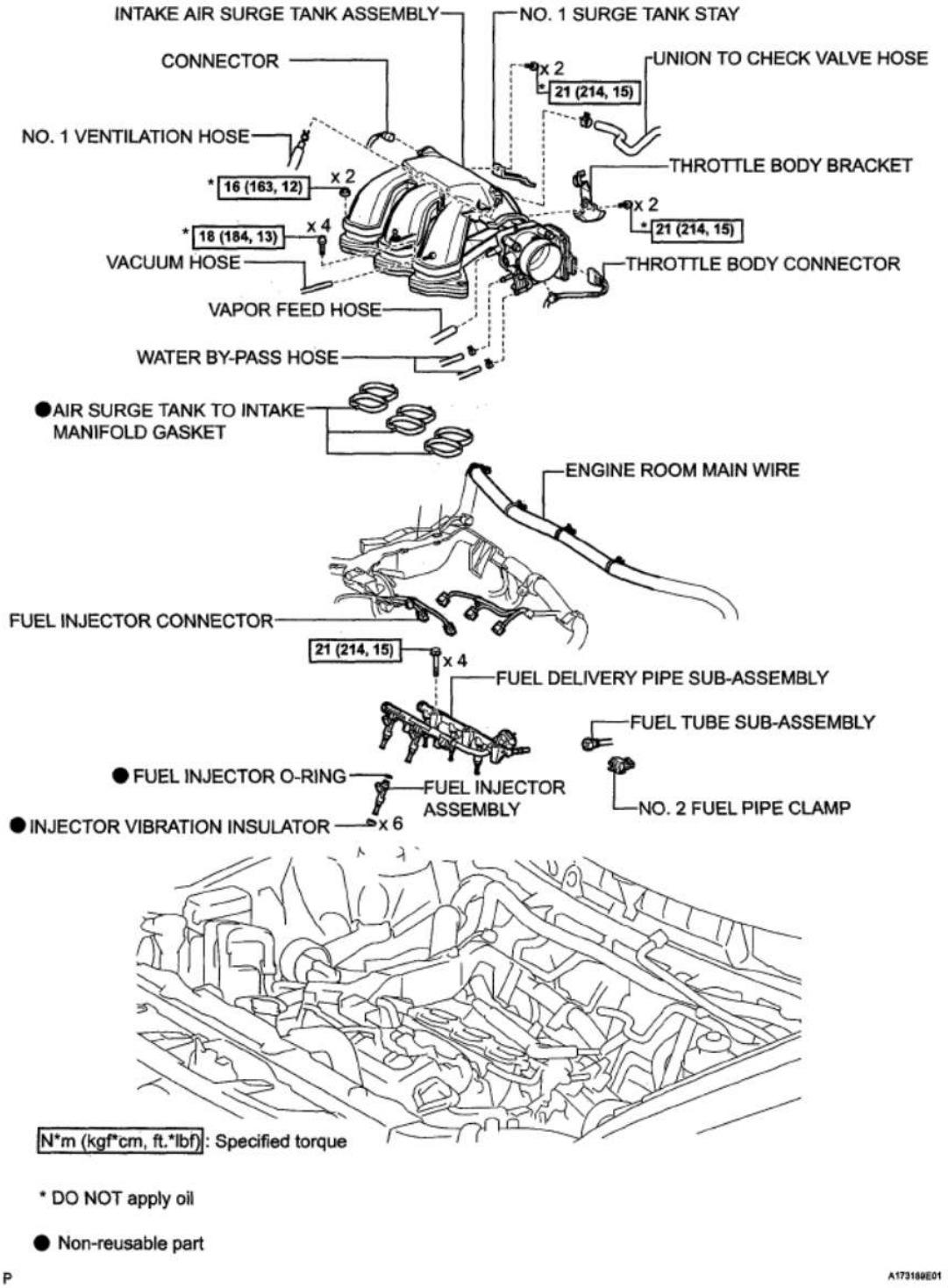


Fig. 25: Identifying Fuel Injector Components And Torque Specifications (3 Of 3)
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REMOVAL

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1. **DISCHARGE FUEL SYSTEM PRESSURE**

   HINT:

   See **FUEL SYSTEM**.

2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

   NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

3. **REMOVE ENGINE UNDER COVER ASSEMBLY** (See **REMOVAL**)
4. **REMOVE NO. 1 ENGINE UNDER COVER** (See **REMOVAL**)
5. **DRAIN ENGINE COOLANT** (See **COOLANT**)
6. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH** (See **REMOVAL**)
7. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH** (See **REMOVAL**)
8. **REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY** (See **REMOVAL**)
9. **REMOVE WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY** (See **REMOVAL**)
10. **REMOVE OUTER COWL TOP PANEL SUB-ASSEMBLY** (See **REMOVAL**)
11. **REMOVE V-BANK COVER SUB-ASSEMBLY** (See **REMOVAL**)
12. **REMOVE AIR CLEANER CAP SUB-ASSEMBLY** (See **REMOVAL**)
13. **DISCONNECT ENGINE ROOM MAIN WIRE** (See **REMOVAL**)
14. **REMOVE THROTTLE BODY BRACKET** (See **REMOVAL**)
15. **REMOVE NO. 1 SURGE TANK STAY** (See **REMOVAL**)
16. **REMOVE INTAKE AIR SURGE TANK ASSEMBLY** (See **REMOVAL**)
17. **DISCONNECT FUEL TUBE SUB-ASSEMBLY** (See **REMOVAL**)
18. **REMOVE FUEL DELIVERY PIPE SUB-ASSEMBLY** (See **REMOVAL**)
19. **REMOVE FUEL INJECTOR ASSEMBLY**
    a. Pull out the fuel injectors from the fuel delivery pipe.

    NOTE: If the injectors are to be reused, reinstall them to the same cylinder they came from.

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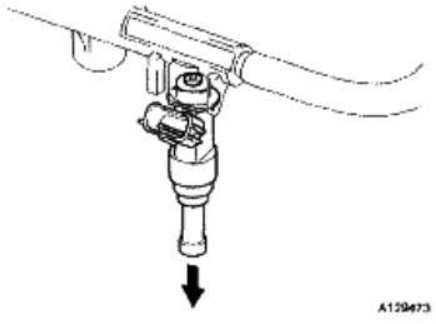


Fig. 26: Pulling Out Fuel Injector From Fuel Delivery Pipe
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Remove the 6 O-rings from the injectors.

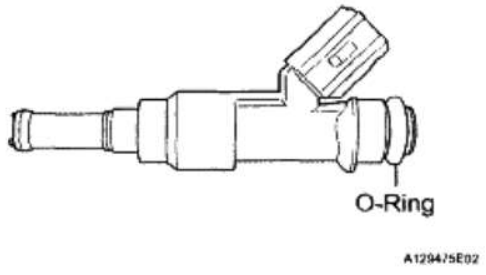


Fig. 27: Identifying Injectors O-Rings
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **INSPECT FUEL INJECTOR ASSEMBLY**
   a. Inspect the injector resistance.
      1. Using an ohmmeter, measure the resistance between the terminals.

         Standard resistance

         TESTER CONNECTION SPECIFIED CONDITION CHART

Tester Connection	Condition	Specified Condition
1-2	Always	11.6 to 12.4 ohms at 20°C (68°F)

         If the resistance is not as specified, replace the injector.

   b. Inspect the injection volume.

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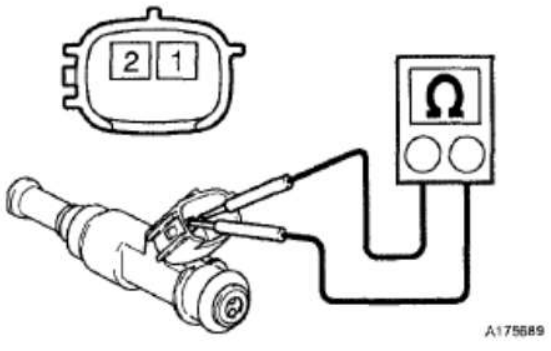


Fig. 28: Inspecting Fuel Injector Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: This test involves high-pressure fuel and electricity. Take every precaution regarding the safe handling of both fuel and electricity. Perform this test in a safe area, and avoid any sparks or flames. Do not smoke.

1. Install the fuel tube connector to SST (hose), then connect the tube connector to the fuel pipe (vehicle side).

   SST 09268-31011 (09268-41500, 90467-13001, 95336-08070)

   NOTE: Do not scratch or allow any foreign matter on the connection between the fuel tube connector and the pipe, as they are sealed with the O-ring on the SST connector.

2. Install the O-ring to the fuel injector.

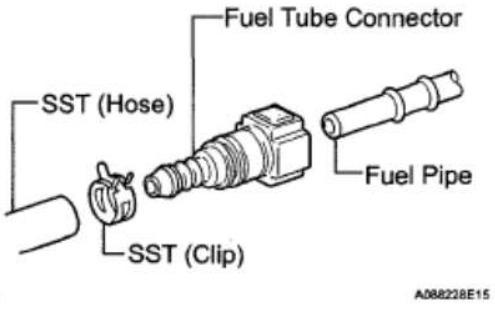


Fig. 29: Connecting Tube Connector To Fuel Pipe
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Connect SST (adaptor and hose) to the injector, and hold the injector and union with SST (clamp).

   SST 09268-31011 (90467-13001, 95336-08070), 09268-41140, 09268-41400

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4. Put the injector into the graduated cylinder.

CAUTION: Install a suitable vinyl tube onto the injector that will contain gasoline spray.

5. Operate the fuel pump (See **ON-VEHICLE INSPECTION**).

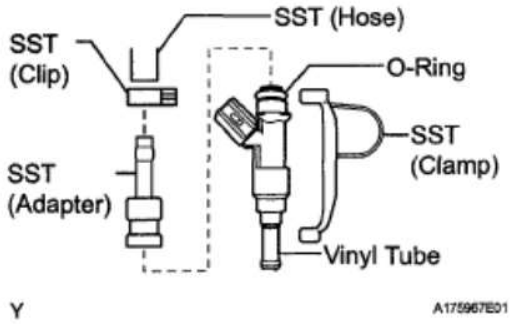


Fig. 30: Connecting SST (Adaptor And Hose) To Injector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. Connect SST (wire) to the injector and the battery for 15 seconds, and measure the injection volume with the graduated cylinder. Test each injector 2 or 3 times.

SST 09842-30080

Volume:

84 to 100 cm^3 (5.1 to 6.0 cu in.) in 15 seconds

Difference between each injector:

16 cm^3 (0.98 cu in.) or less

If the injection volume is not as specified, replace the injector.

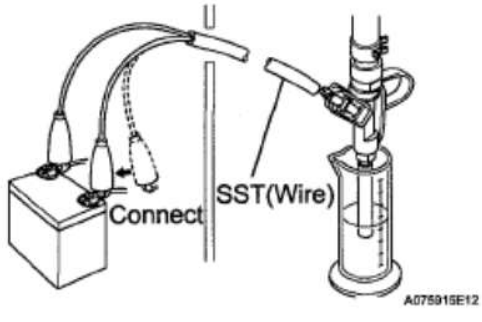


Fig. 31: Connecting SST (Wire) To Injector And Battery

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Check for leaks.
   1. Disconnect the tester probes of SST (wire) from the battery and check for fuel leaks from the injector.

      Fuel drop:

      1 drop or less in 16 minutes

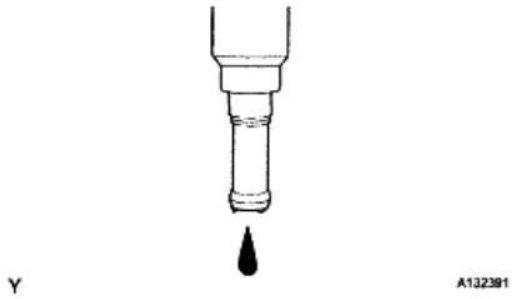


Fig. 32: Identifying Fuel Leakage From Injector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL FUEL INJECTOR ASSEMBLY**
   a. Apply a light coat of spindle oil or gasoline to new O-rings, and install them to each injector.

      NOTE: The wound or the foreign body must not adhere in the ditch of O-ring.

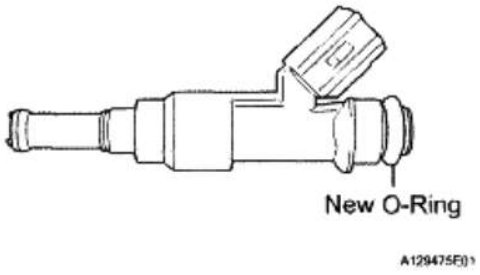


Fig. 33: Identifying O-Ring
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Apply a light coat of spindle oil or gasoline where the fuel delivery pipe contacts the O-ring.
   c. Push the fuel injector while turning it to install the injector in the fuel delivery pipe.
   d. Position the fuel injector connector outward.

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NOTE:

- **Be careful not to twist the O-ring.**
- **After installing the fuel injector, check that it turns smoothly. If not, reinstall it with a new O-ring.**

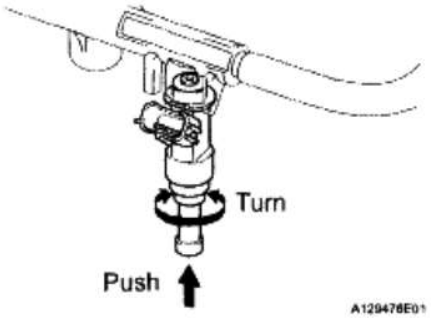


Fig. 34: Turning Fuel Injector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL FUEL DELIVERY PIPE SUB-ASSEMBLY** (See **INSTALLATION**)
3. **CONNECT FUEL TUBE SUB-ASSEMBLY** (See **INSTALLATION**)
4. **TEMPORARILY INSTALL NO. 1 SURGE TANK STAY** (See **INSTALLATION**)
5. **TEMPORARILY INSTALL THROTTLE BODY BRACKET** (See **INSTALLATION**)
6. **INSTALL INTAKE AIR SURGE TANK ASSEMBLY** (See **INSTALLATION**)
7. **FULLY TIGHTEN NO. 1 SURGE TANK STAY** (See **INSTALLATION**)
8. **FULLY TIGHTEN THROTTLE BODY BRACKET** (See **INSTALLATION**)
9. **CONNECT ENGINE ROOM MAIN WIRE** (See **INSTALLATION**)
10. **INSTALL AIR CLEANER CAP SUB-ASSEMBLY** (See **INSTALLATION**)
11. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL** (See **INSTALLATION**)
12. **INSPECT SRS WARNING LIGHT** (See **INSTALLATION**)
13. **INSPECT FOR FUEL LEAK** (See **ON-VEHICLE INSPECTION**)
14. **ADD ENGINE COOLANT** (See **REPLACEMENT**)
15. **INSPECT FOR ENGINE COOLANT LEAK** (See **COOLING SYSTEM**)
16. **INSTALL V-BANK COVER SUB-ASSEMBLY** (See **INSTALLATION**)
17. **INSTALL OUTER COWL TOP PANEL SUB-ASSEMBLY** (See **INSTALLATION**)
18. **INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY** (See **INSTALLATION**)
19. **INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY** (See **INSTALLATION**)
20. **INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH** (See **INSTALLATION**)
21. **INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH** (See **INSTALLATION**)
22. **INSTALL NO. 1 ENGINE UNDER COVER** (See **INSTALLATION**)
23. **INSTALL ENGINE UNDER COVER ASSEMBLY** (See **INSTALLATION**)

FUEL PUMP

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COMPONENTS

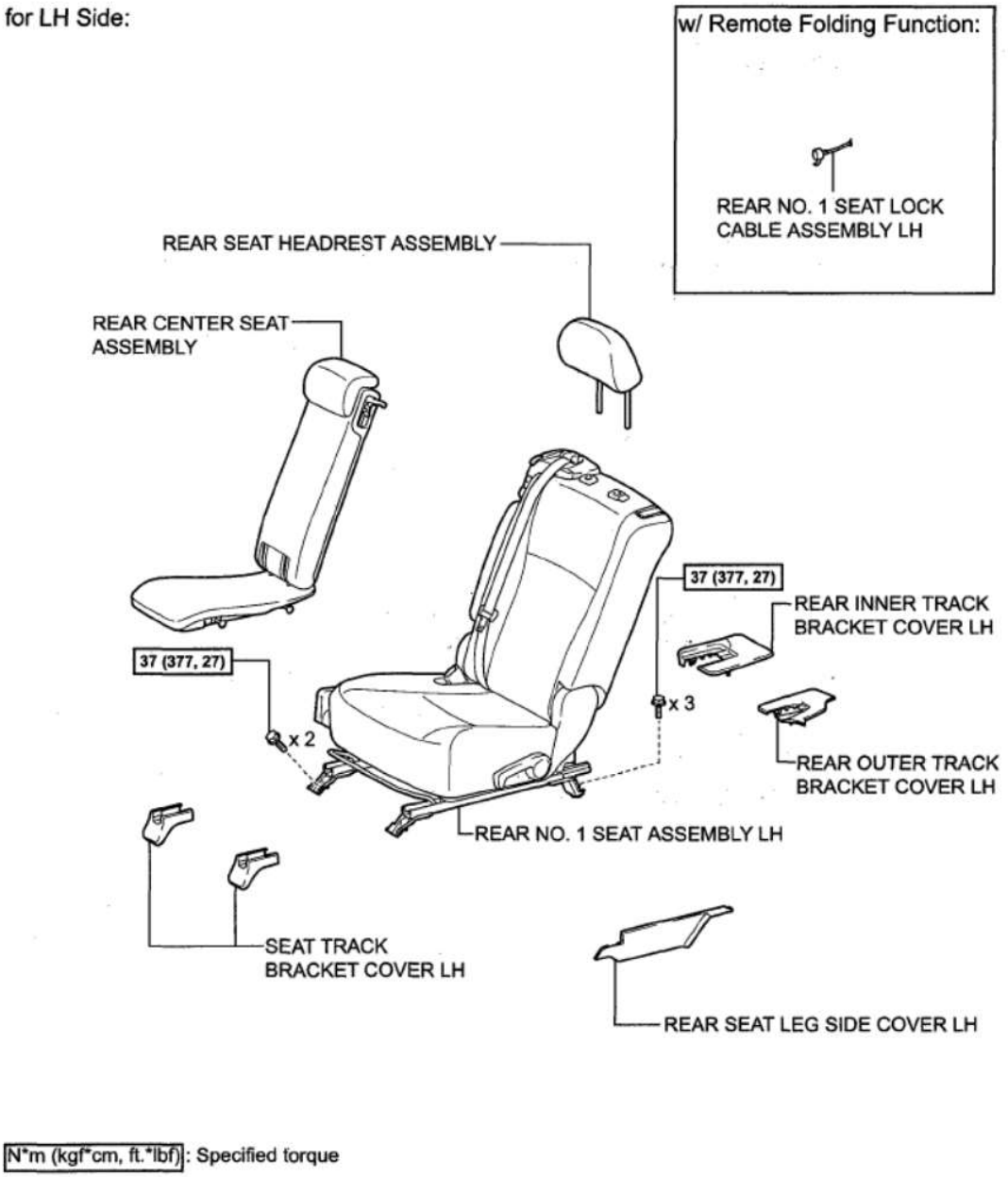


Fig. 35: Identifying Fuel Pump Components And Torque Specifications (1 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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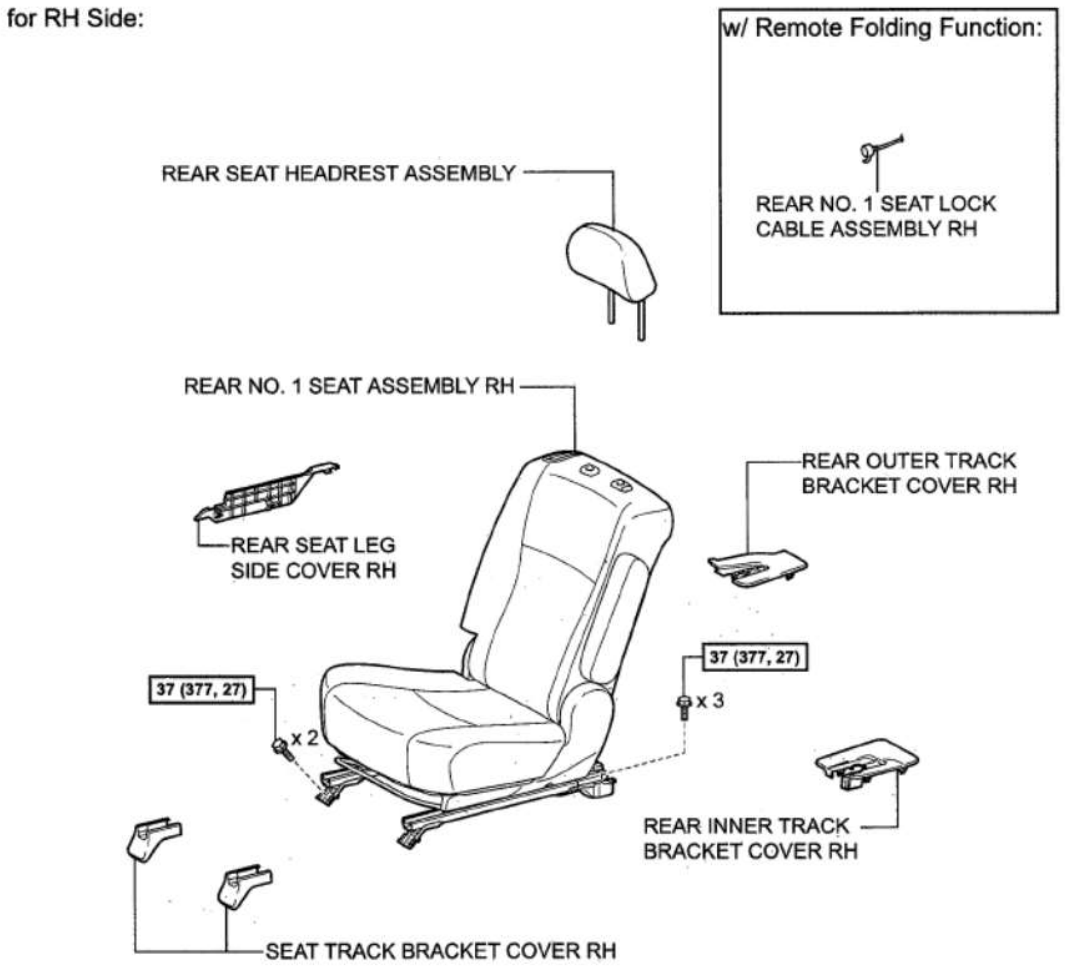


Fig. 36: Identifying Fuel Pump Components And Torque Specifications (2 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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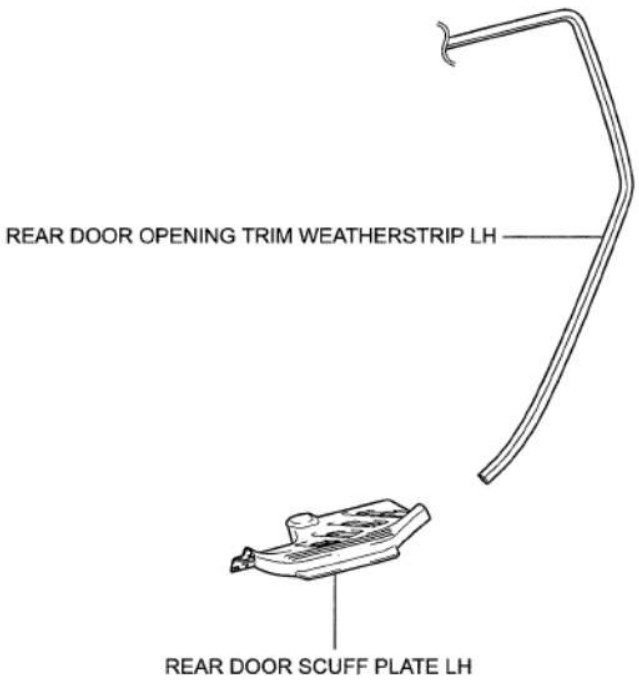


Fig. 37: Identifying Fuel Pump Components And Torque Specifications (3 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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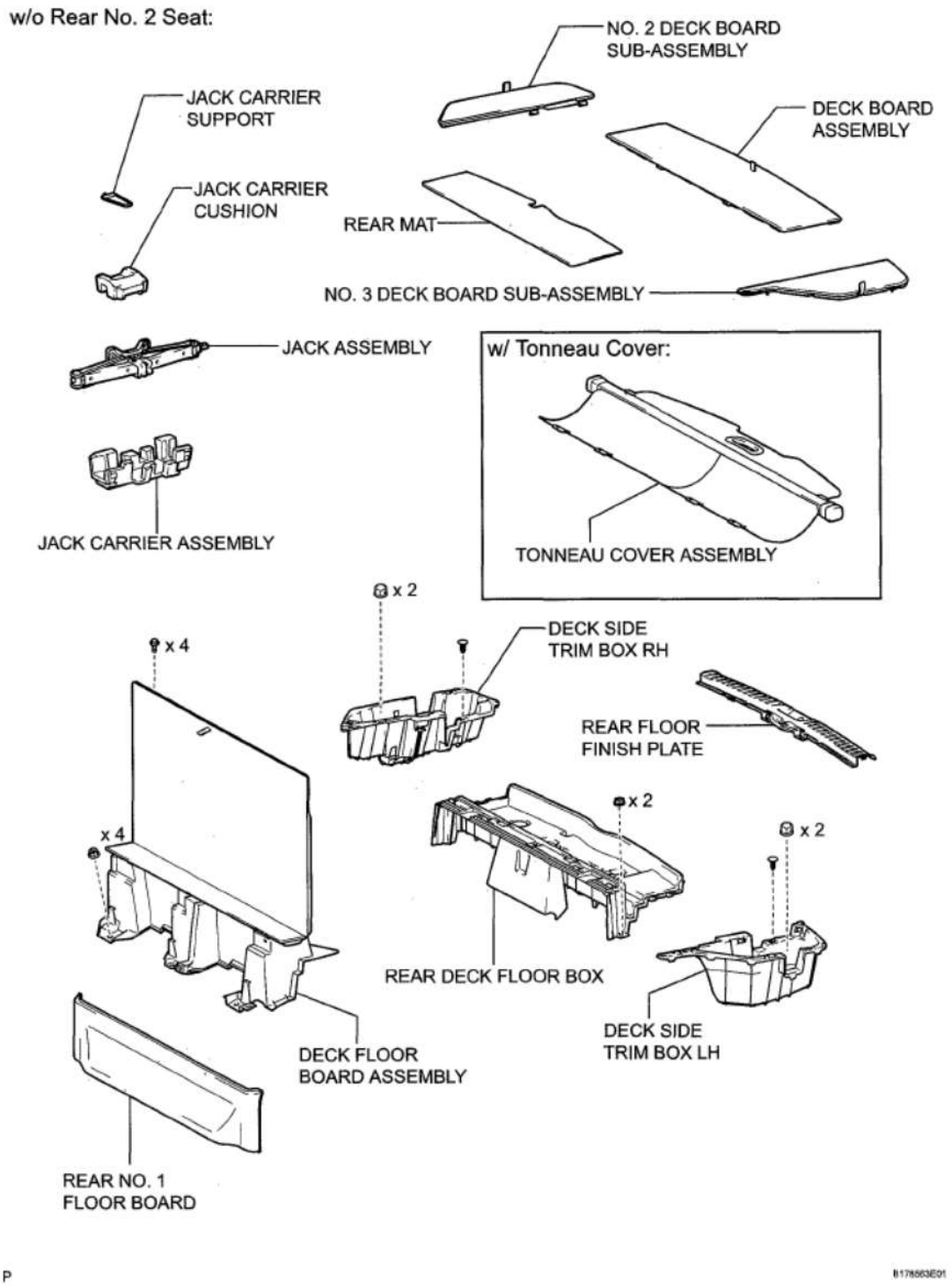


Fig. 38: Identifying Fuel Pump Components And Torque Specifications (4 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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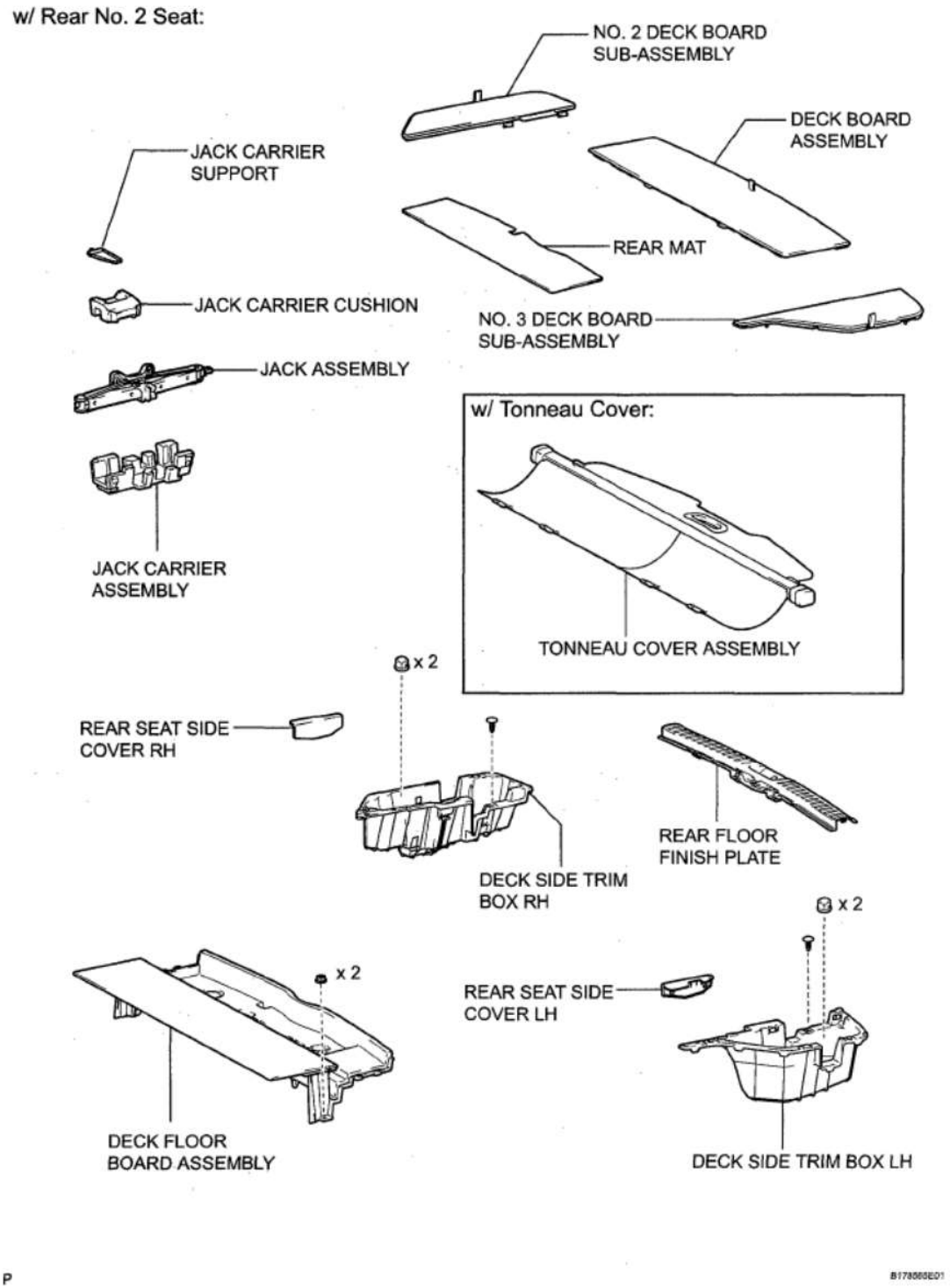


Fig. 39: Identifying Fuel Pump Components And Torque Specifications (5 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

w/ Rear No. 2 Seat:

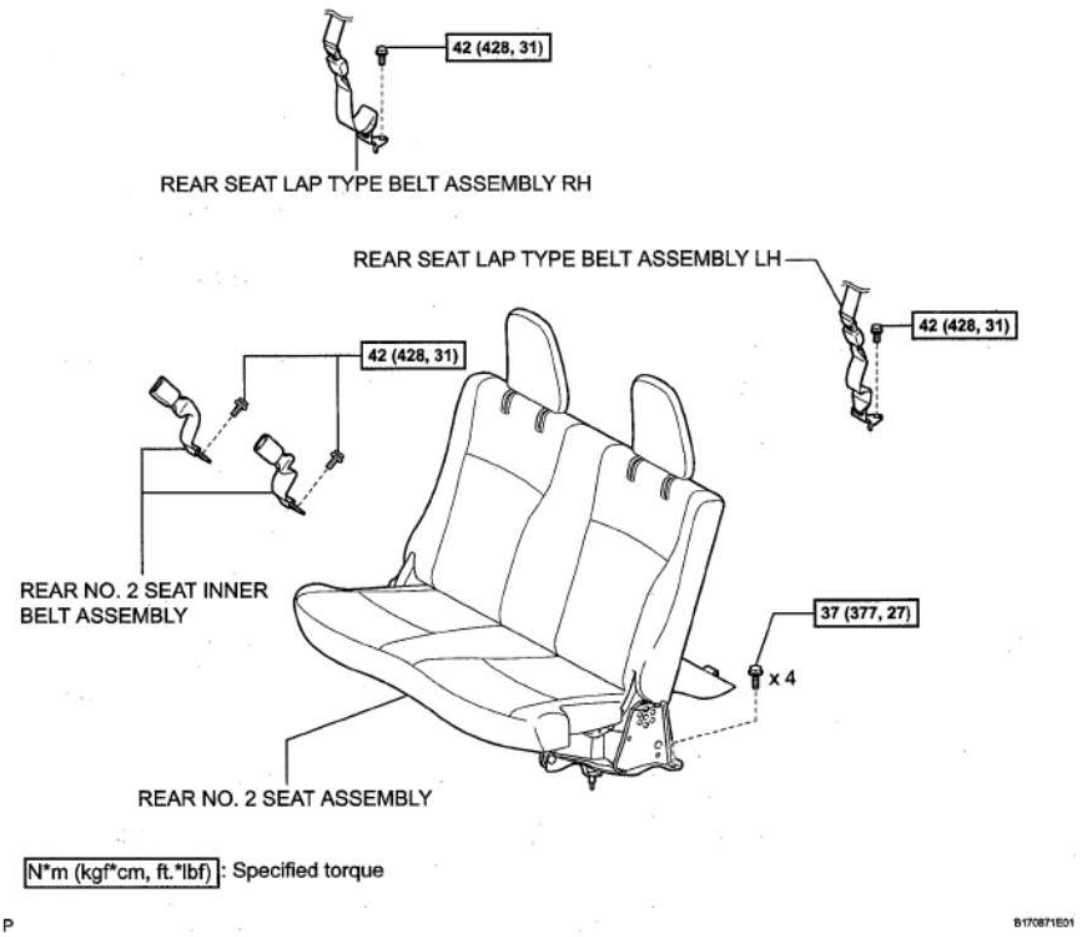


Fig. 40: Identifying Fuel Pump Components And Torque Specifications (6 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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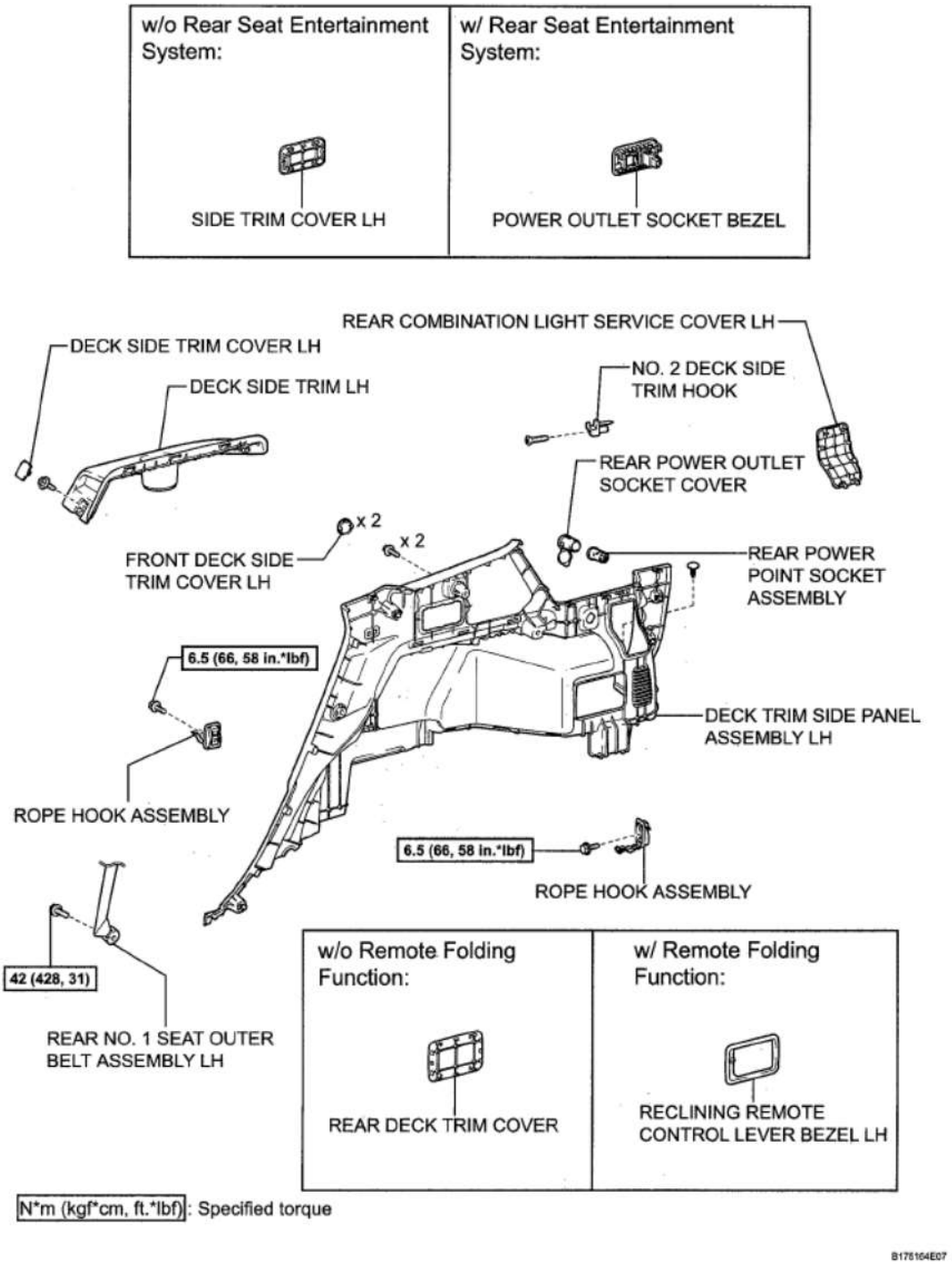


Fig. 41: Identifying Fuel Pump Components And Torque Specifications (7 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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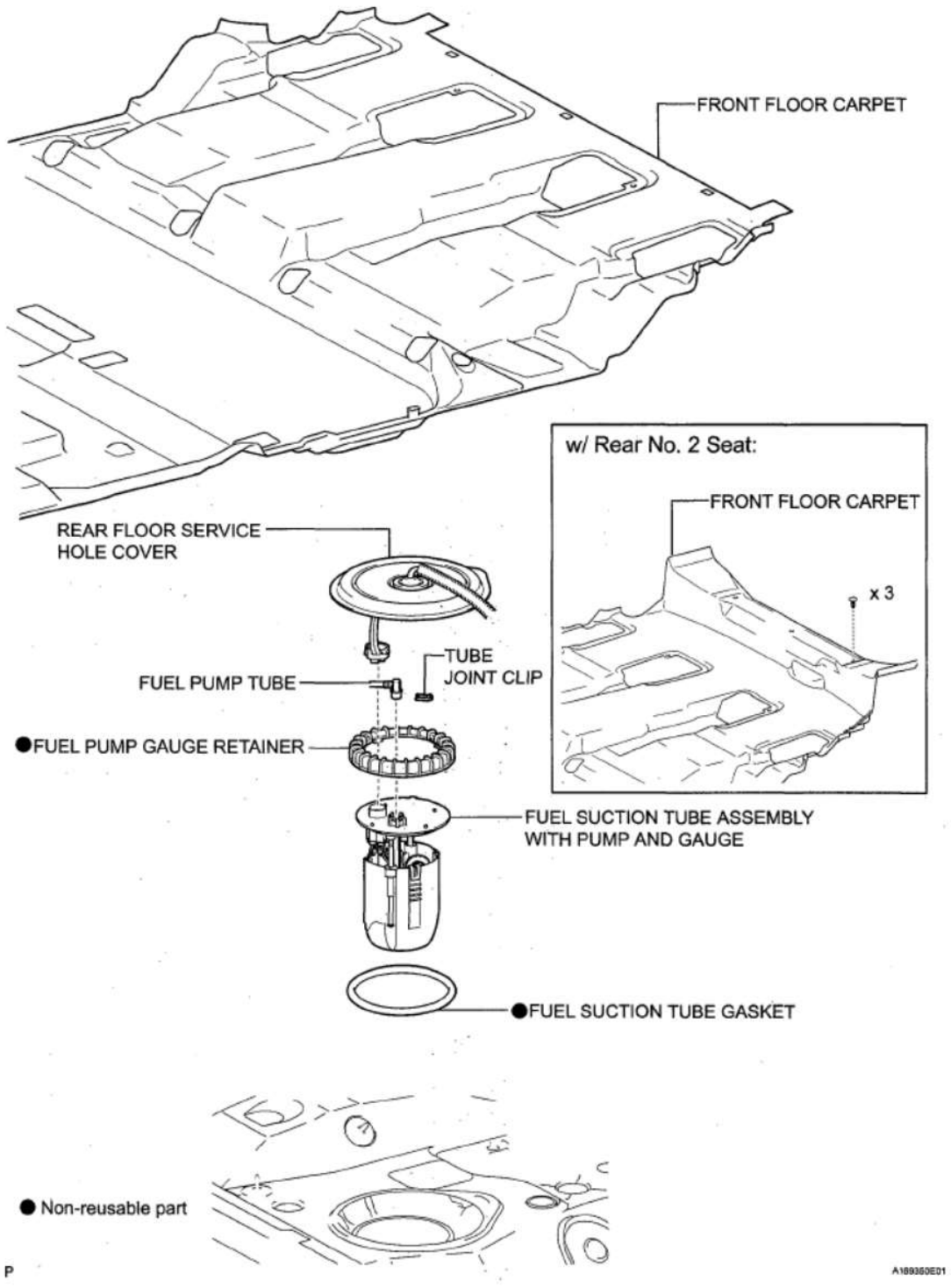


Fig. 42: Identifying Fuel Pump Components And Torque Specifications (8 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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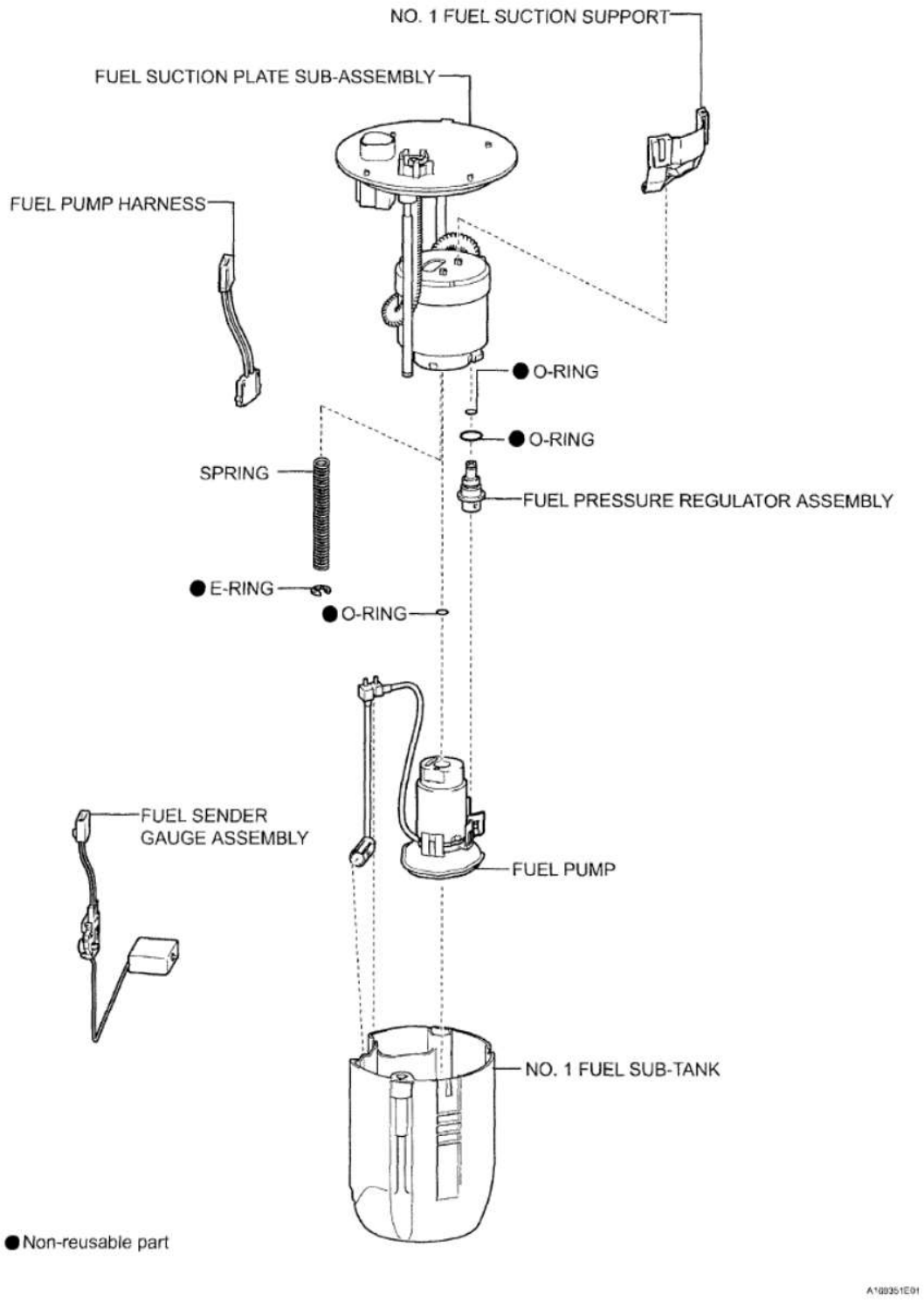


Fig. 43: Identifying Fuel Pump Components And Torque Specifications (9 Of 9)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

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1. **DISCHARGE FUEL SYSTEM PRESSURE** (See **REMOVAL**)
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL** (See **REMOVAL**)
3. **REMOVE REAR CENTER SEAT ASSEMBLY**
4. **REMOVE REAR SEAT HEADREST ASSEMBLY (for LH Side)**
5. **REMOVE SEAT TRACK BRACKET COVER LH** (See **REMOVAL**)
6. **REMOVE REAR OUTER TRACK BRACKET COVER LH** (See **REMOVAL**)
7. **REMOVE REAR INNER TRACK BRACKET COVER LH** (See **REMOVAL**)
8. **REMOVE REAR SEAT LEG SIDE COVER LH** (See **REMOVAL**)
9. **DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
10. **REMOVE REAR NO. 1 SEAT ASSEMBLY LH** (See **DISASSEMBLY**)
11. **REMOVE REAR SEAT HEADREST ASSEMBLY (for RH Side)**
12. **REMOVE SEAT TRACK BRACKET COVER RH** (See **REMOVAL**)
13. **REMOVE REAR OUTER TRACK BRACKET COVER RH** (See **REMOVAL**)
14. **REMOVE REAR INNER TRACK BRACKET COVER RH** (See **REMOVAL**)
15. **REMOVE REAR SEAT LEG SIDE COVER RH** (See **REMOVAL**)
16. **REMOVE REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
17. **REMOVE REAR NO. 1 SEAT ASSEMBLY RH** (See **DISASSEMBLY**)
18. **REMOVE REAR DOOR SCUFF PLATE LH** (See **REMOVAL**)
19. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH** (See **REMOVAL**)
20. **REMOVE DECK BOARD ASSEMBLY** (See **REMOVAL**)
21. **REMOVE NO. 3 DECK BOARD SUB-ASSEMBLY** (See **REMOVAL**)
22. **REMOVE NO. 2 DECK BOARD SUB-ASSEMBLY** (See **REMOVAL**)
23. **REMOVE TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)** (See **REMOVAL**)
24. **REMOVE REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat)** (See **REMOVAL**)
25. **REMOVE REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
26. **REMOVE DECK SIDE TRIM BOX LH** (See **REMOVAL**)
27. **REMOVE REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
28. **REMOVE JACK CARRIER SUPPORT**
29. **REMOVE JACK CARRIER CUSHION** (See **REMOVAL**)
30. **REMOVE JACK ASSEMBLY** (See **REMOVAL**)
31. **REMOVE JACK CARRIER ASSEMBLY** (See **REMOVAL**)
32. **REMOVE DECK SIDE TRIM BOX RH** (See **REMOVAL**)
33. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat)** (See **REMOVAL**)
34. **REMOVE REAR MAT** (See **REMOVAL**)
35. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/ Rear No. 2 Seat)** (See **REMOVAL**)
36. **REMOVE REAR DECK FLOOR BOX (w/o Rear No. 2 Seat)** (See **REMOVAL**)

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37. **REMOVE REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
38. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
39. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
40. **REMOVE REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)** (See **DISASSEMBLY**)
41. **REMOVE REAR FLOOR FINISH PLATE** (See **REMOVAL**)
42. **REMOVE DECK SIDE TRIM COVER LH** (See **REMOVAL**)
43. **REMOVE DECK SIDE TRIM COVER LH** (See **REMOVAL**)
44. **REMOVE SIDE TRIM COVER LH (w/o Rear Seat Entertainment System)** (See **REMOVAL**)
45. **REMOVE POWER OUTLET SOCKET BEZEL (w/ Rear Seat Entertainment System)** (See **REMOVAL**)
46. **REMOVE REAR COMBINATION LIGHT SERVICE COVER LH** (See **REMOVAL**)
47. **REMOVE REAR POWER POINT SOCKET ASSEMBLY** (See **REAR POWER OUTLET SOCKET**)
48. **REMOVE REAR POWER OUTLET SOCKET COVER** (See **INSTALLATION**)
49. **REMOVE REAR DECK TRIM COVER (w/o Remote Folding Function)** (See **REMOVAL**)
50. **REMOVE RECLINING REMOTE CONTROL LEVER BEZEL LH (w/ Remote Folding Function)** (See **REMOVAL**)
51. **REMOVE ROPE HOOK ASSEMBLY (for LH Side)** (See **REMOVAL**)
52. **REMOVE NO. 2 DECK SIDE TRIM HOOK** (See **REMOVAL**)
53. **REMOVE FRONT DECK SIDE TRIM COVER LH** (See **REMOVAL**)
54. **DISCONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH** (See **REMOVAL**)
55. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH** (See **REMOVAL**)
56. **REMOVE REAR FLOOR SERVICE HOLE COVER**
    a. Lift up the front floor carpet.
        1. Using a clip remover, remove the 3 clips and lift up the front floor carpet. (w/ rear No. 2 seat)

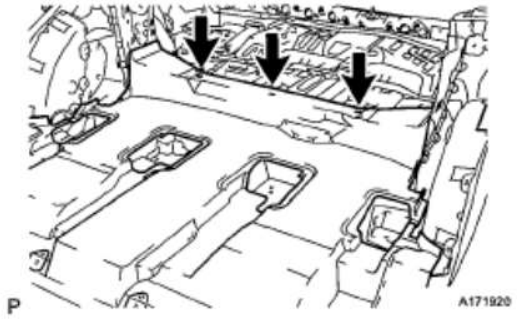


Fig. 44: Locating Front Floor Carpet And Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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2. Disengage the 3 claws and lift up the front floor carpet. (w/o rear No. 2 seat)

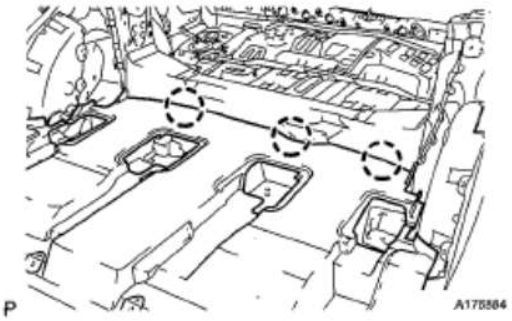


Fig. 45: Identifying Claws And Front Floor Carpet
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Remove the rear floor service hole cover.
c. Disconnect the fuel pump connector.

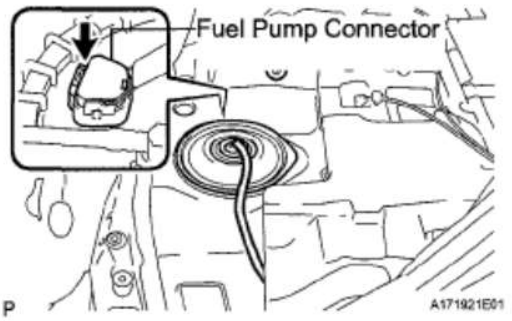


Fig. 46: Locating Rear Floor Service Hole Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

57. **REMOVE FUEL SUCTION TUBE ASSEMBLY WITH PUMP AND GAUGE**
a. Remove the tube joint clip, and pull out the fuel pump tube.

NOTE:

- **Check that there is no dirt or other foreign objects around the connector before disconnecting it. Clean the connector if necessary.**
- **It is necessary to prevent mud or dirt from entering the quick connector. If mud or dirt gets in the connector, the O-rings may not seal properly.**
- **Disconnect the quick connector by hand. Do not use any tools.**
- **Do not bend, kink or twist the nylon tubes. Protect the connector by covering it with a plastic bag.**
- **If the pipe and connector are stuck, carefully try wiggling or pushing and pulling on the connector to release it. Pull the**

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connector off carefully.

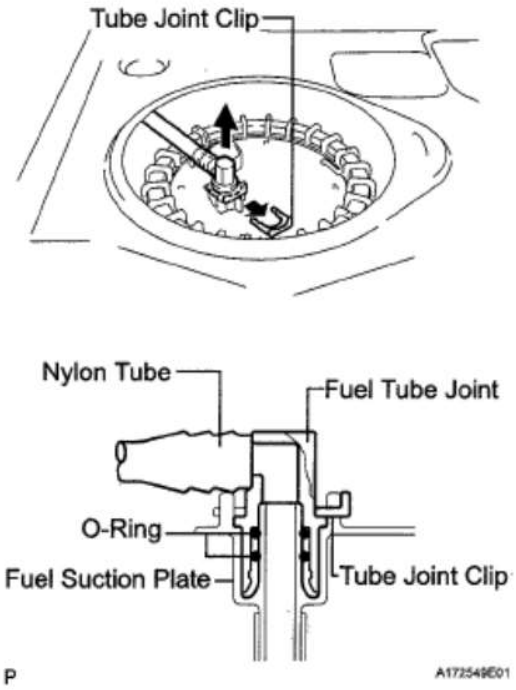


Fig. 47: Identifying Tube Joint Clip And Fuel Pump Tube
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Using a 6 mm socket hexagon wrench, install SST to the fuel pump gauge retainer.

SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

HINT:

- Engage the SST claws securely with the fuel pump gauge retainer ribs to secure SST.
- Install SST while pressing the SST claws toward the fuel pump gauge retainer (toward the center of SST).

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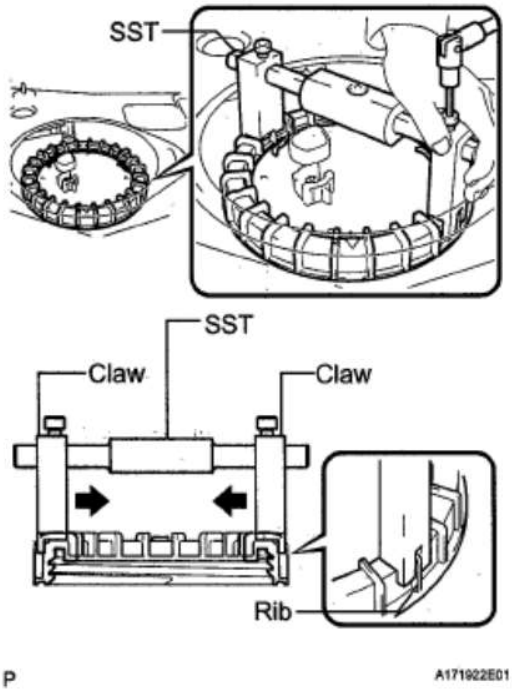


Fig. 48: Installing SST To Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Using SST, loosen the fuel pump gauge retainer.

SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

NOTE:

- **Do not use any tools other than specified in this operation. Damage to the fuel pump gauge retainer or the fuel tank may result.**
- **Loosen the retainer by turning it counterclockwise while holding SST down. Do not allow the claw of the tank suction tube support to slip out of its groove on the fuel tank.**

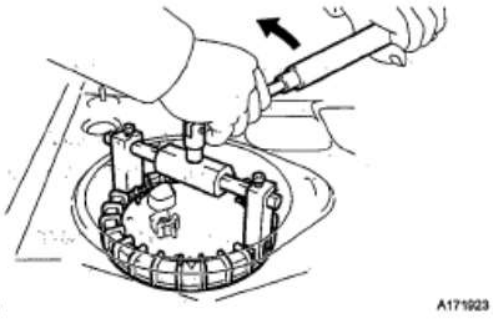


Fig. 49: Loosening Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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HINT:

The ribs on the fuel pump gauge retainer can be fitted into the tips of SST.

d. Remove the fuel pump gauge retainer.
e. Remove the fuel suction tube with pump and gauge.

NOTE: Be careful not to bend the arm of the fuel sender gauge.

f. Remove the gasket from the fuel tank.

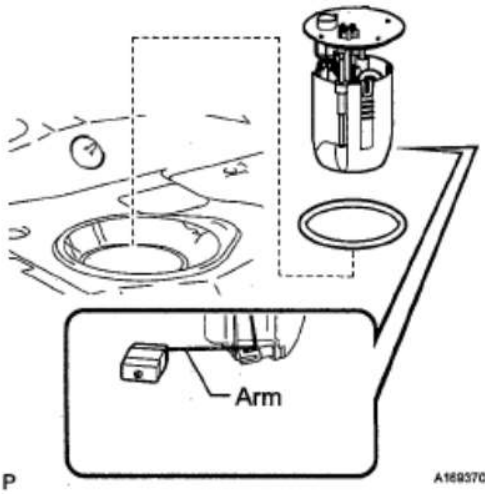


Fig. 50: Identifying Gasket And Fuel Pump
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISASSEMBLY

1. **REMOVE FUEL SENDER GAUGE ASSEMBLY**
   a. Disconnect the connector and remove the fuel sender gauge from the fuel suction tube.

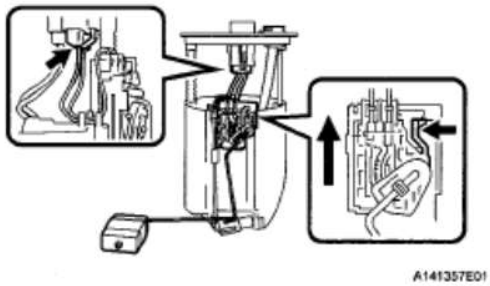


Fig. 51: Identifying Connector And Fuel Sender Gauge
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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2. **REMOVE FUEL SUCTION PLATE SUB-ASSEMBLY**
   a. Using needle nozzle pliers, remove the E-ring.

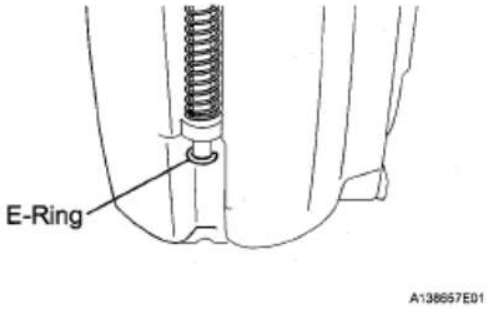


Fig. 52: Identifying E-Ring
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Disengage the 2 claws of the No. 1 fuel suction support and remove the fuel suction plate with the fuel filter from the No. 1 fuel sub-tank.
   c. Remove the spring from the fuel suction plate.

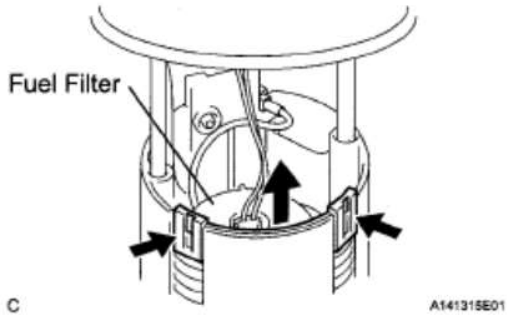


Fig. 53: Removing Fuel Suction Plate With Fuel Filter
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   d. Disengage the claw of the jet pump nozzle.
   e. Separate the fuel pump filter hose.

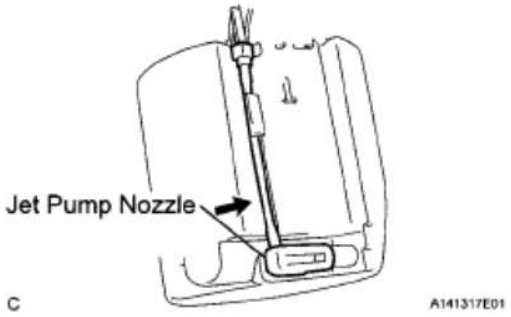


Fig. 54: Locating Jet Pump Nozzle

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **DISCONNECT FUEL PUMP HARNESS**
   a. Disconnect the fuel pump harness connector.

NOTE: **Do not separate the tube indicated in the illustration (See FUEL SYSTEM).**

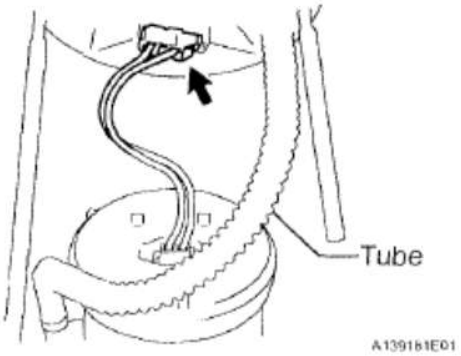


Fig. 55: Disconnecting Fuel Pump Harness Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **REMOVE FUEL PUMP**
   a. Using a screwdriver with its tip wrapped in protective tape, disengage the 5 claws on the filter and remove the fuel pump from the fuel filter.

NOTE:
- **Do not damage the fuel filter.**
- **Do not remove the suction filter.**
- **Do not use either the fuel pump or the suction filter if the suction filter is removed from the fuel pump.**

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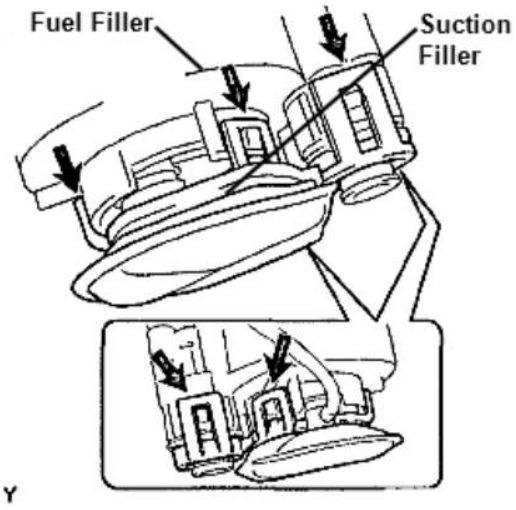


Fig. 56: Locating Claws Of Fuel Pump
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Disconnect the fuel pump connector.

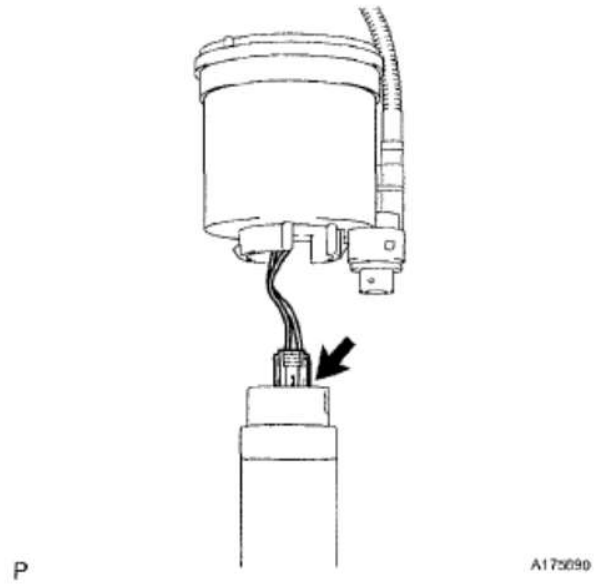


Fig. 57: Locating Fuel Pump Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Remove the O-ring from the fuel filter.

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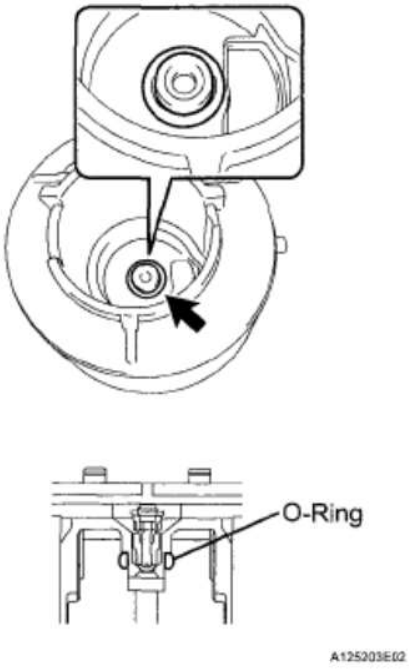


Fig. 58: Identifying O-Ring
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **REMOVE FUEL PRESSURE REGULATOR ASSEMBLY**
   a. Remove the fuel pressure regulator from the fuel filter.

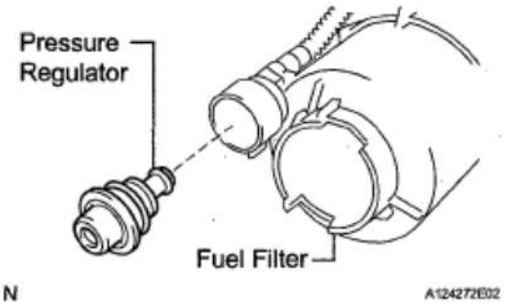


Fig. 59: Identifying Fuel Pressure Regulator And Fuel Filter
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Remove the 2 O-rings from the fuel pressure regulator.

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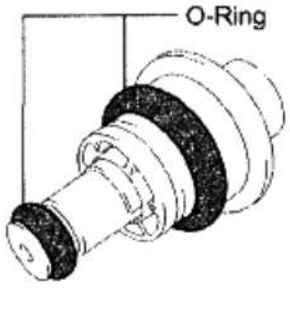


Fig. 60: Identifying Fuel Pressure Regulator O-Rings
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **REMOVE NO. 1 FUEL SUCTION SUPPORT**
   a. Using a screwdriver with the tip taped, disengage the claw and remove the fuel No. 1 suction support.

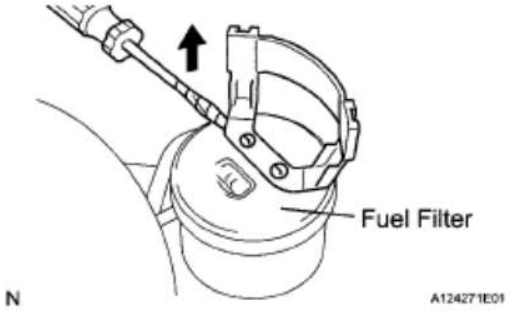


Fig. 61: Disengaging Claw And Fuel No. 1 Suction Support
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **INSPECT FUEL PUMP**
   a. Inspect fuel pump resistance.
      1. Using an ohmmeter, measure the resistance between the terminals.

         Standard resistance:

         0.2 to 3.0 ohms at 20°C (68°F)

   b. Inspect fuel pump operation.
      1. Apply battery voltage to both the terminals. Check that the pump operates.

NOTE:

- **These tests must be done quickly (within 10 seconds) to prevent damage to the pump.**
- **Keep the fuel pump as far away from the battery as**

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possible.

- Always do the switching at the battery side.



Fig. 62: Identifying Fuel Pump Terminals
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REASSEMBLY

1. **INSTALL NO. 1 FUEL SUCTION SUPPORT**
   a. Install the No. 1 fuel suction support to the fuel filter.

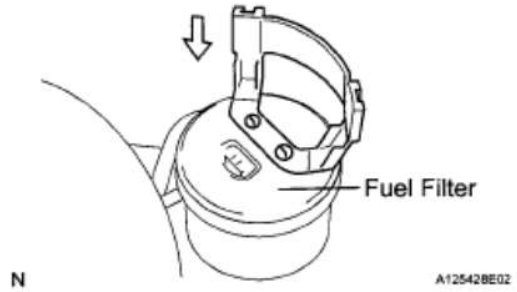


Fig. 63: Identifying No. 1 Fuel Suction Support And Fuel Filter
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL FUEL PRESSURE REGULATOR ASSEMBLY**
   a. Apply a light coat of gasoline or spindle oil to 2 new O-rings, then install them onto the fuel pressure regulator.

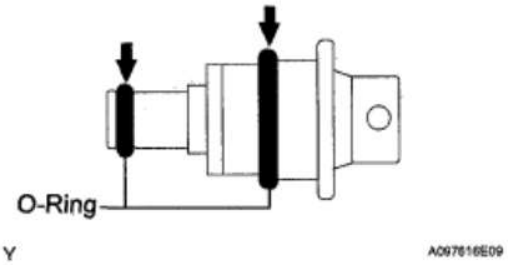


Fig. 64: Locating O-Rings
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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b. Install the fuel pressure regulator to the fuel filter.

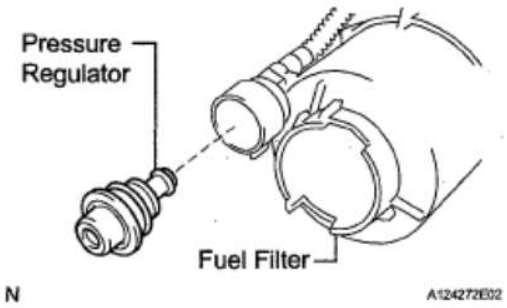


Fig. 65: Identifying Fuel Pressure Regulator And Fuel Filter
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL FUEL PUMP**
   a. Apply gasoline to a new O-ring and install it to the fuel filter.

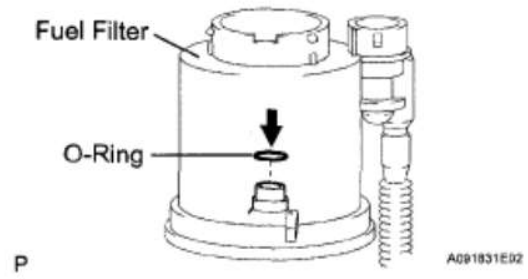


Fig. 66: Identifying O-Ring And Fuel Filter
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Engage the 5 claws on the fuel filter and install the fuel pump with the pump filter.

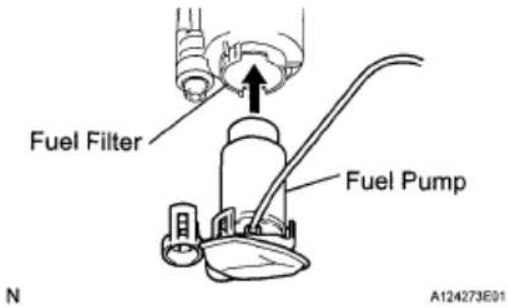


Fig. 67: Installing Fuel Pump With Pump Filter
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **CONNECT FUEL PUMP HARNESS**
   a. Connect the fuel pump harness connector.

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NOTE: **Do not separate the tube indicated in the illustration (See FUEL SYSTEM).**

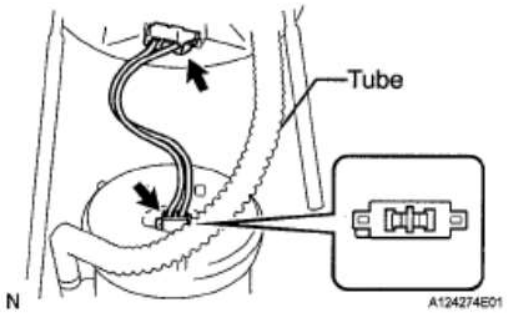


Fig. 68: Locating Fuel Pump Harness Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL FUEL SUCTION PLATE SUB-ASSEMBLY**
   a. Install the fuel pump filter tube while aligning it to the installation position of the No. 1 fuel sub-tank.
   b. Connect the jet pump nozzle.

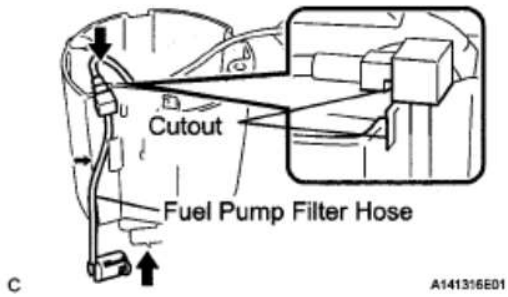
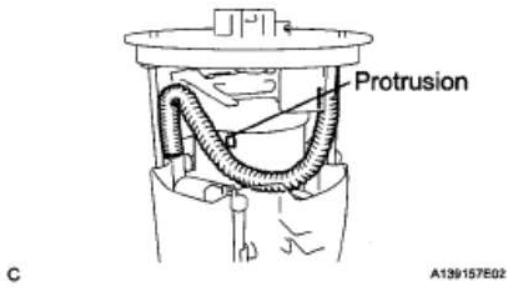


Fig. 69: Locating Fuel Pump Filter Hose
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Make sure that the fuel tube passes under the protrusion of the fuel filter, and engage the claw of the No. 1 fuel suction support.
   d. Install the spring to the fuel suction plate shaft and install it to the No. 1 fuel sub-tank.



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Fig. 70: Identifying Protrusion Of Fuel Filter
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Install a new E-ring.

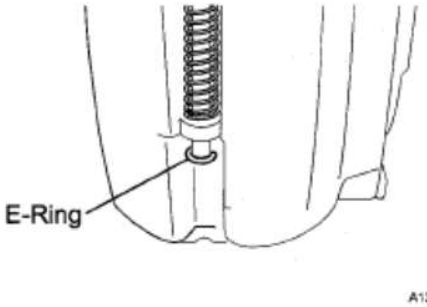


Fig. 71: Identifying E-Ring
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL FUEL SENDER GAUGE ASSEMBLY**
   a. Slide the fuel sender gauge to fit the claw.
   b. Connect the fuel sender gauge connector.

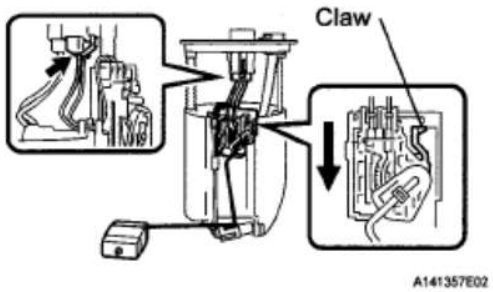


Fig. 72: Locating Fuel Sender Gauge Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL FUEL SUCTION TUBE ASSEMBLY WITH PUMP AND GAUGE**
   a. Install a new gasket to the fuel tank.
   b. Attach the fuel suction tube with pump and gauge to the fuel tank.

NOTE: Be careful not to bend the arm of the fuel sender gauge.

   c. Align the keyway of the fuel suction tube support with the key of the fuel suction tube with pump and gauge.

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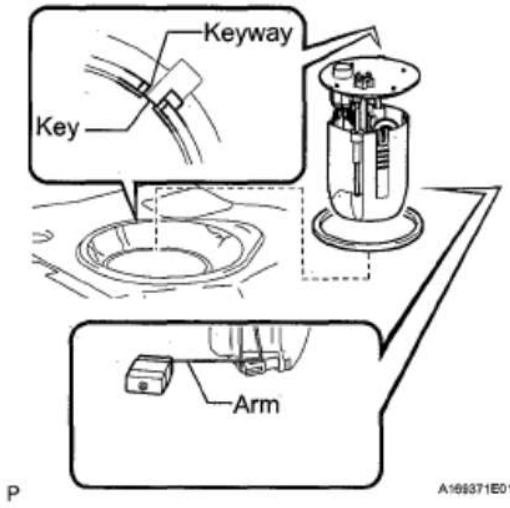


Fig. 73: Identifying Keyway Of Fuel Suction Tube Support
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Align the triangle mark on a new fuel pump gauge retainer with the "S" mark on the fuel tank while pushing down the fuel suction tube with pump and gauge, and attach the fuel pump gauge retainer.

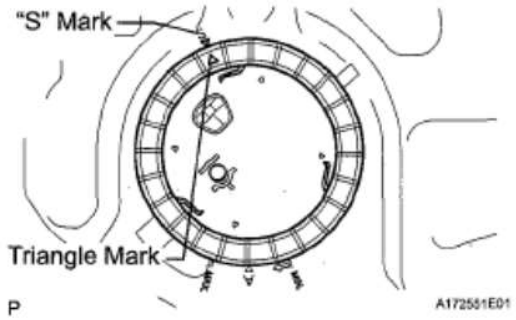


Fig. 74: Identifying Triangle Mark And S Marks
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Using a 6 mm socket hexagon wrench, install SST to the fuel pump gauge retainer.

SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

HINT:

- Engage the SST claws securely with the fuel pump gauge retainer ribs to secure SST.
- Install SST while pressing the SST claws toward the fuel pump gauge retainer (toward the center of SST).

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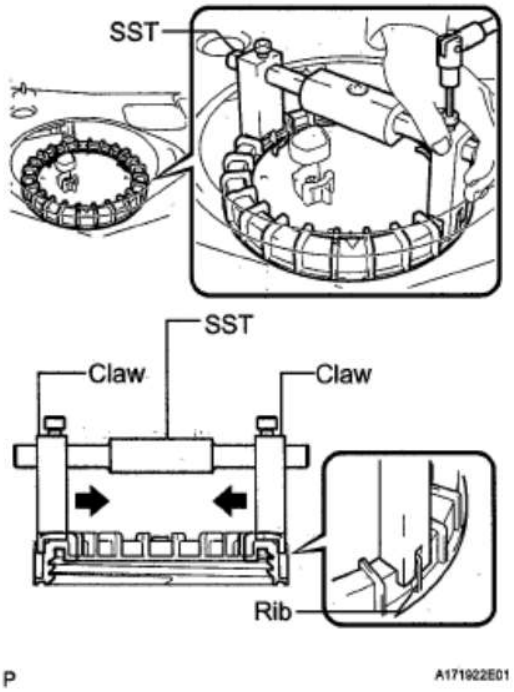


Fig. 75: Installing SST To Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

f. Rotate the fuel pump gauge retainer by hand, then tighten it one complete turn and another half turn using SST. The triangle mark on the fuel pump gauge retainer must be positioned between the "MIN" and "MAX" marks on the fuel tank.

SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

NOTE:

- **Do not use any tools other than specified in this operation. Damage to the fuel pump gauge retainer or the fuel tank may result.**
- **Fully tighten the retainer by turning it clockwise while holding SST down. Do not allow the claw of the tank suction tube support to slip out of its groove on the fuel tank.**

HINT:

The ribs on the fuel pump gauge retainer can be fitted into the tips of SST.

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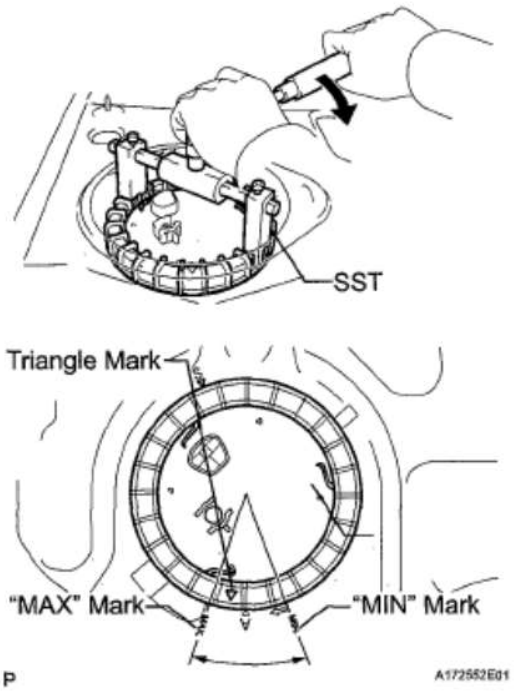


Fig. 76: Rotating Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

g. Install the fuel pump tube and the tube joint clip.

NOTE:

- **Check that there are no scratches or foreign objects on the connecting part.**
- **Check that the fuel tube joint is inserted securely.**
- **Check that the tube joint clip is correctly located on the collar of the fuel tube joint.**
- **After installing the tube joint clip, check that the fuel tube joint has not been pulled out of position.**

h. Connect the fuel pump connector.

2. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
3. **INSPECT FUEL LEAK** (See **ON-VEHICLE INSPECTION**)
4. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL** (See **REMOVAL**)

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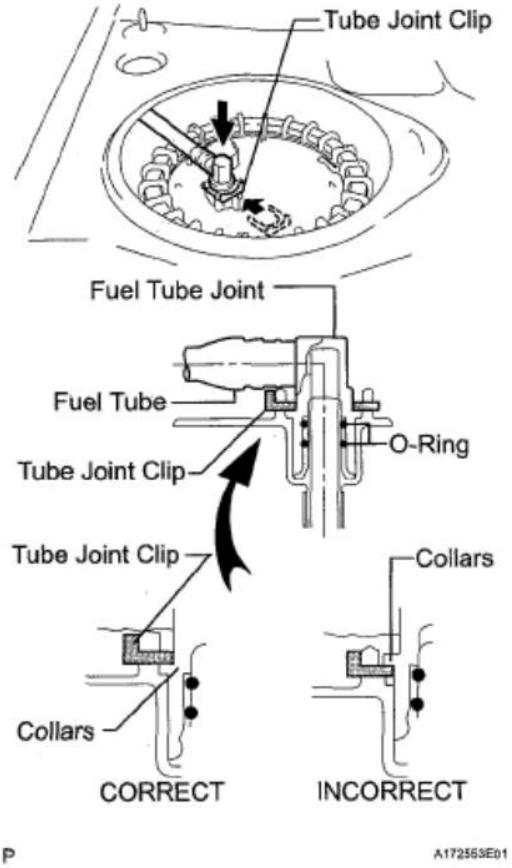


Fig. 77: Identifying Fuel Pump Tube And Tube Joint Clip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL REAR FLOOR SERVICE HOLE COVER**
   a. Install new butyl tape to the rear floor service hole cover.
   b. Install the rear floor service hole cover.

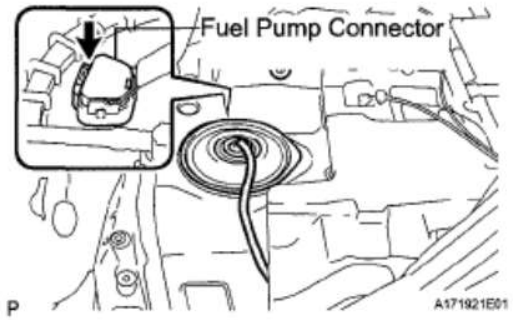


Fig. 78: Locating Rear Floor Service Hole Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Install the front floor carpet.

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1. Install the front floor carpet with the 3 clips. (w/ rear No. 2 seat)
2. Engage the 3 claws to install the front floor carpet. (w/o rear No. 2 seat)

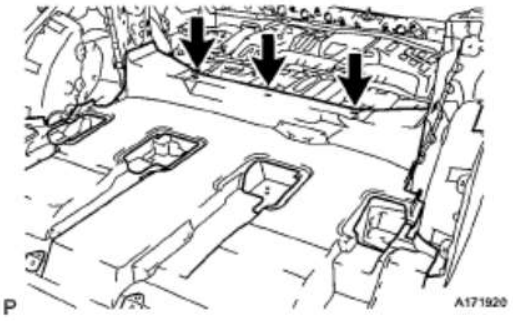


Fig. 79: Locating Front Floor Carpet And Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH** (See **INSTALLATION**)
7. **CONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH** (See **INSTALLATION**)
8. **INSTALL FRONT DECK SIDE TRIM COVER LH** (See **INSTALLATION**)
9. **INSTALL NO. 2 DECK SIDE TRIM HOOK** (See **INSTALLATION**)
10. **INSTALL ROPE HOOK ASSEMBLY (for LH Side)** (See **INSTALLATION**)
11. **INSTALL REAR DECK TRIM COVER (w/o Remote Folding Function)** (See **INSTALLATION**)
12. **INSTALL RECLINING REMOTE CONTROL LEVER BEZEL LH (w/ Remote Folding Function)** (See **INSTALLATION**)
13. **INSTALL REAR POWER OUTLET SOCKET COVER** (See **INSTALLATION**)
14. **INSTALL REAR POWER POINT SOCKET ASSEMBLY** (See **INSTALLATION**)
15. **INSTALL REAR COMBINATION LIGHT SERVICE COVER LH** (See **INSTALLATION**)
16. **INSTALL SIDE TRIM COVER LH (w/o Rear Seat Entertainment System)** (See **INSTALLATION**)
17. **INSTALL POWER OUTLET SOCKET BEZEL (w/ Rear Seat Entertainment System)** (See **INSTALLATION**)

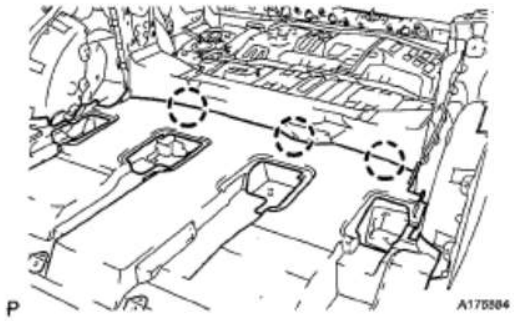


Fig. 80: Identifying Claws And Front Floor Carpet
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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18. **INSTALL DECK SIDE TRIM LH** (See **INSTALLATION**)
19. **INSTALL DECK SIDE TRIM COVER LH** (See **INSTALLATION**)
20. **INSTALL REAR FLOOR FINISH PLATE** (See **INSTALLATION**)
21. **INSTALL REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
22. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
23. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
24. **INSTALL REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
25. **INSTALL REAR DECK FLOOR BOX (w/o Rear No. 2 Seat)** (See **INSTALLATION**)
26. **INSTALL DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat)** (See **INSTALLATION**)
27. **INSTALL REAR MAT** (See **INSTALLATION**)
28. **INSTALL DECK FLOOR BOARD ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
29. **INSTALL DECK SIDE TRIM BOX LH** (See **INSTALLATION**)
30. **INSTALL REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
31. **INSTALL DECK SIDE TRIM BOX RH** (See **INSTALLATION**)
32. **INSTALL JACK CARRIER ASSEMBLY** (See **INSTALLATION**)
33. **INSTALL JACK ASSEMBLY** (See **INSTALLATION**)
34. **INSTALL JACK CARRIER CUSHION** (See **INSTALLATION**)
35. **INSTALL JACK CARRIER SUPPORT**
36. **INSTALL REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
37. **INSTALL REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat)** (See **INSTALLATION**)
38. **INSTALL TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)**
39. **INSTALL NO. 2 DECK BOARD SUB-ASSEMBLY** (See **INSTALLATION**)
40. **INSTALL NO. 3 DECK BOARD SUB-ASSEMBLY** (See **INSTALLATION**)
41. **INSTALL DECK BOARD ASSEMBLY** (See **INSTALLATION**)
42. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH** (See **INSTALLATION**)
43. **INSTALL REAR DOOR SCUFF PLATE LH** (See **INSTALLATION**)
44. **INSTALL REAR NO. 1 SEAT ASSEMBLY RH** (See **INSTALLATION**)
45. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **INSTALLATION**)
46. **INSPECT REAR NO. 1 SEAT ADJUSTER ASSEMBLY (for RH Side)** (See **INSTALLATION**)
47. **INSTALL REAR SEAT LEG SIDE COVER RH** (See **INSTALLATION**)
48. **INSTALL REAR INNER TRACK BRACKET COVER RH** (See **INSTALLATION**)
49. **INSTALL REAR OUTER TRACK BRACKET COVER RH** (See **INSTALLATION**)
50. **INSTALL SEAT TRACK BRACKET COVER RH** (See **INSTALLATION**)
51. **INSTALL REAR SEAT HEADREST ASSEMBLY (for RH Side)**

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52. **INSTALL REAR NO. 1 SEAT ASSEMBLY LH** (See **INSTALLATION**)
53. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **INSTALLATION**)
54. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK (for LH Side)** (See **INSTALLATION**)
55. **INSTALL REAR SEAT LEG SIDE COVER LH** (See **INSTALLATION**)
56. **INSTALL REAR INNER SEAT TRACK BRACKET COVER LH** (See **INSTALLATION**)
57. **INSTALL REAR OUTER TRACK BRACKET COVER LH** (See **INSTALLATION**)
58. **INSTALL SEAT TRACK BRACKET COVER LH** (See **INSTALLATION**)
59. **INSTALL REAR SEAT HEADREST ASSEMBLY (for LH Side)**
60. **INSTALL REAR CENTER SEAT ASSEMBLY**
61. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL** (See **INSTALLATION**)
62. **INSPECT SRS WARNING LIGHT** (See **INSTALLATION**)

FUEL PUMP RESISTOR

COMPONENTS

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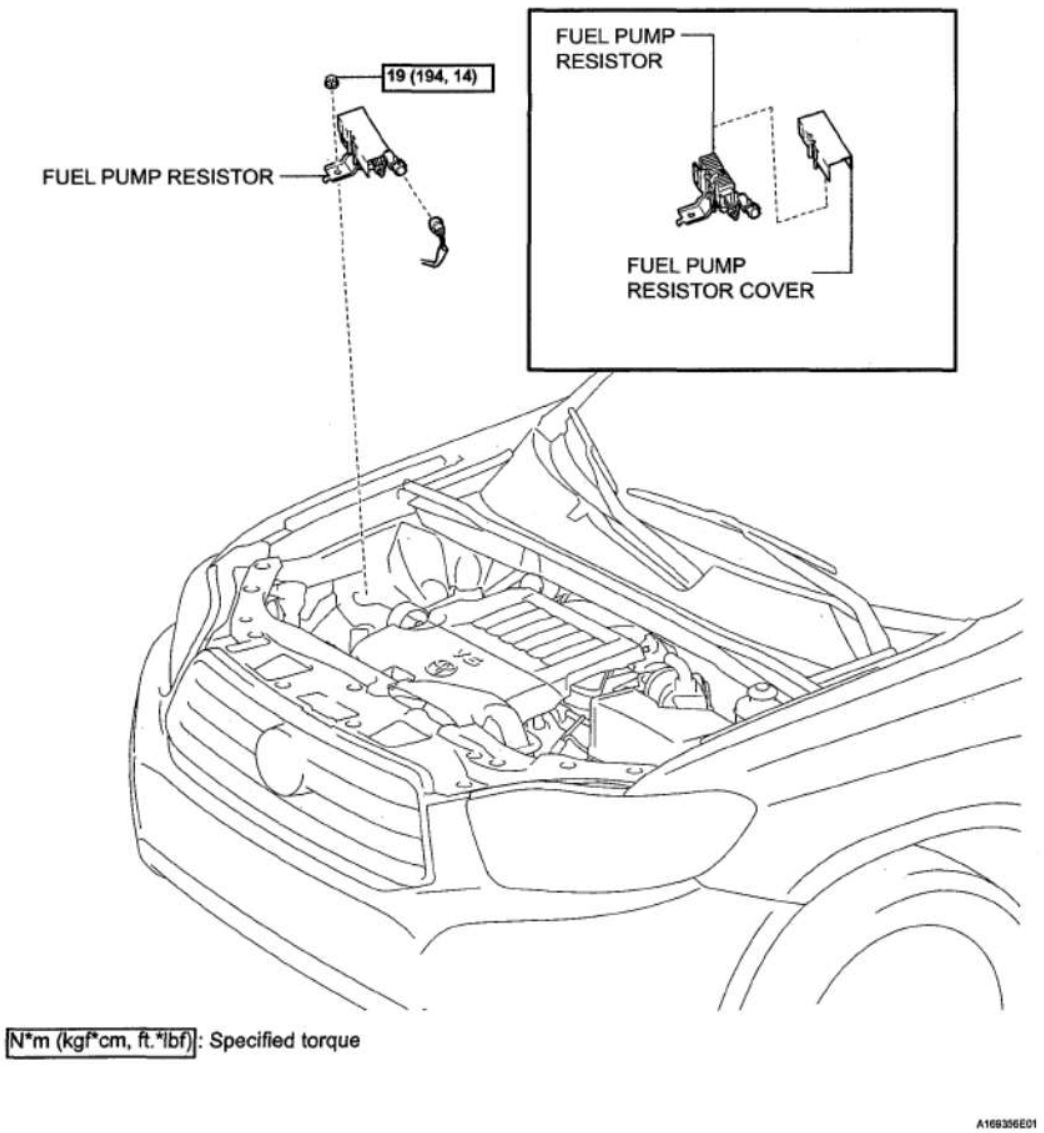


Fig. 81: Identifying Fuel Pump Resistor Components And Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL** (See **REMOVAL**)
2. **REMOVE FUEL PUMP RESISTOR**
   a. Disconnect the connector.
   b. Remove the nut and the fuel pump resistor.

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Fig. 82: Locating Nut And Fuel Pump Resistor
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Remove the fuel pump resistor cover.

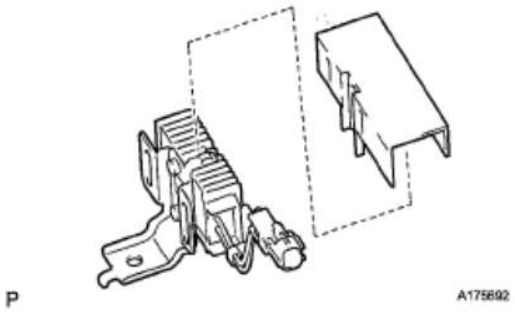


Fig. 83: Removing Fuel Pump Resistor Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **INSPECT FUEL PUMP RESISTOR**
   a. Measure the resistance of the fuel pump resistor.

Standard resistance

TESTER CONNECTION SPECIFIED CONDITION CHART

Tester Connection	Condition	Specified Condition
1-2	Always	0.30 to 0.34 ohms

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Fig. 84: Identifying Fuel Pump Resistor Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL FUEL PUMP RESISTOR**
   a. Install the fuel pump resistor cover.

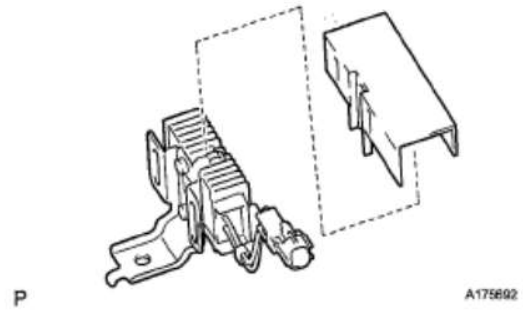


Fig. 85: Installing Fuel Pump Resistor Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Install the fuel pump resistor with the nut.

      Torque: 19 N*m (194 kgf*cm, 14 ft.*lbf)

   c. Connect the connector.
2. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL** (See **INSTALLATION**)
3. **INSPECT SRS WARNING LIGHT** (See **INSTALLATION**)

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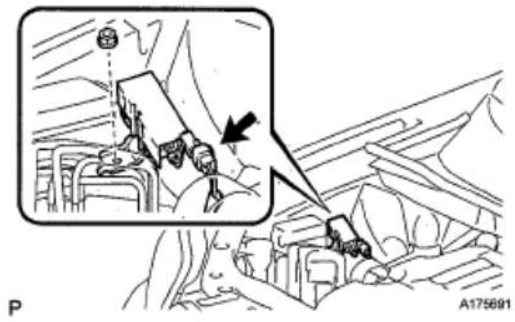


Fig. 86: Locating Nut And Fuel Pump Resistor
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

FUEL TANK

COMPONENTS

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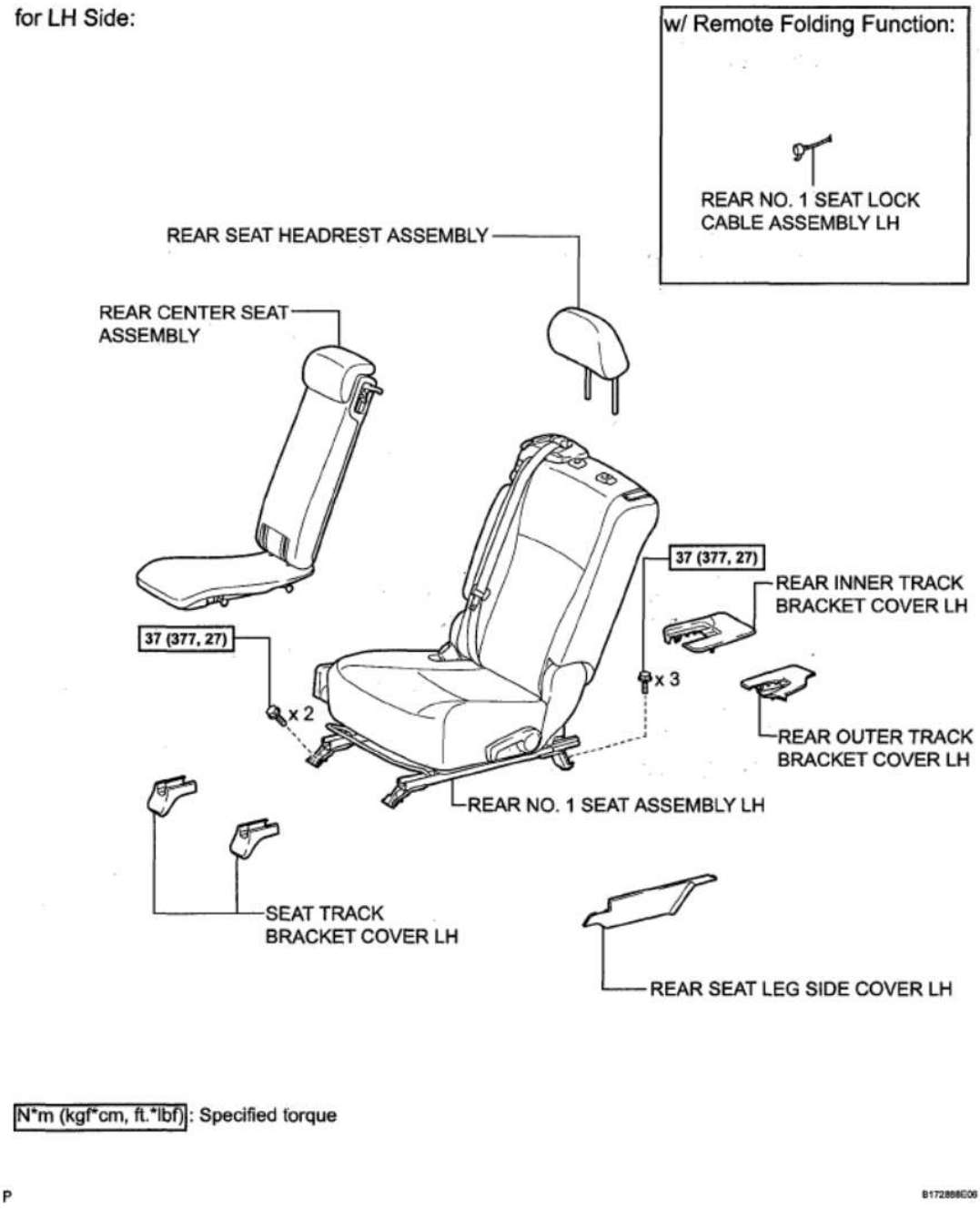


Fig. 87: Identifying Fuel Tank Components And Torque Specifications (1 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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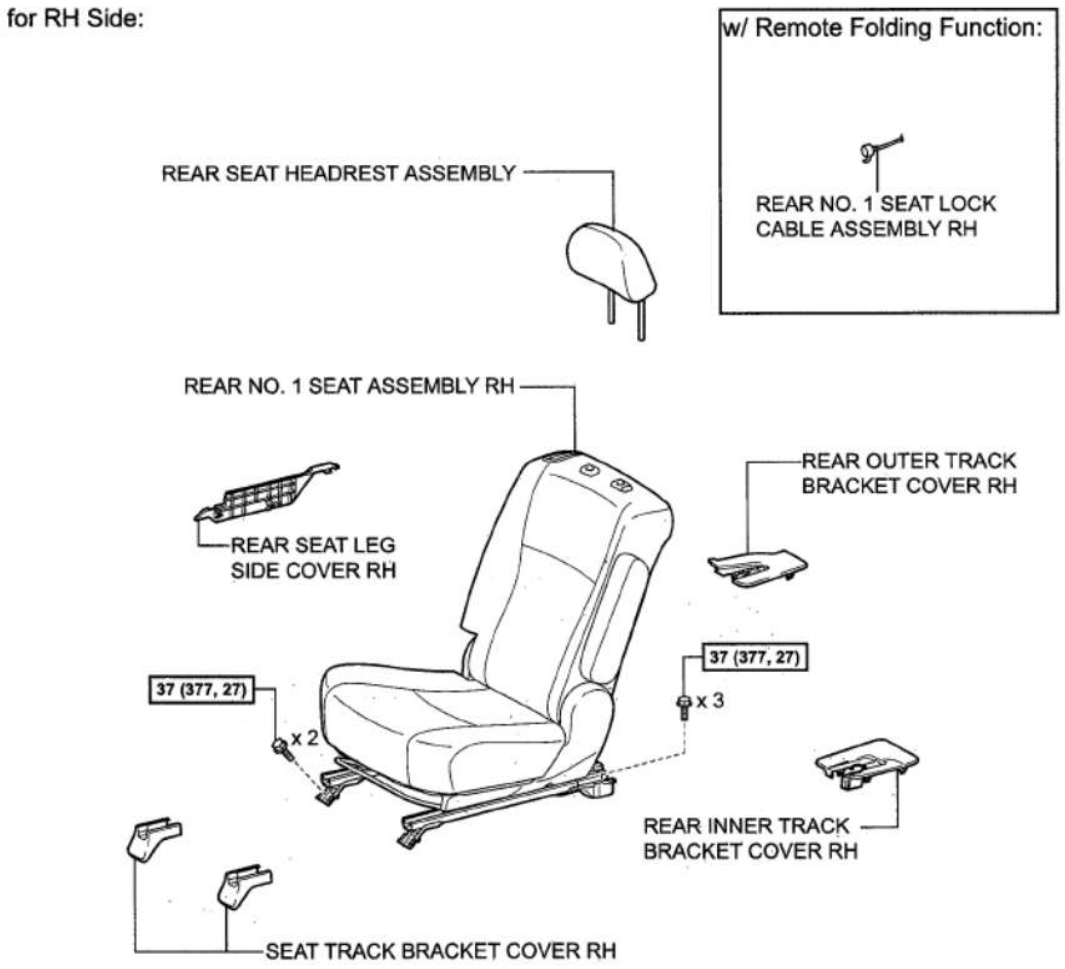


Fig. 88: Identifying Fuel Tank Components And Torque Specifications (2 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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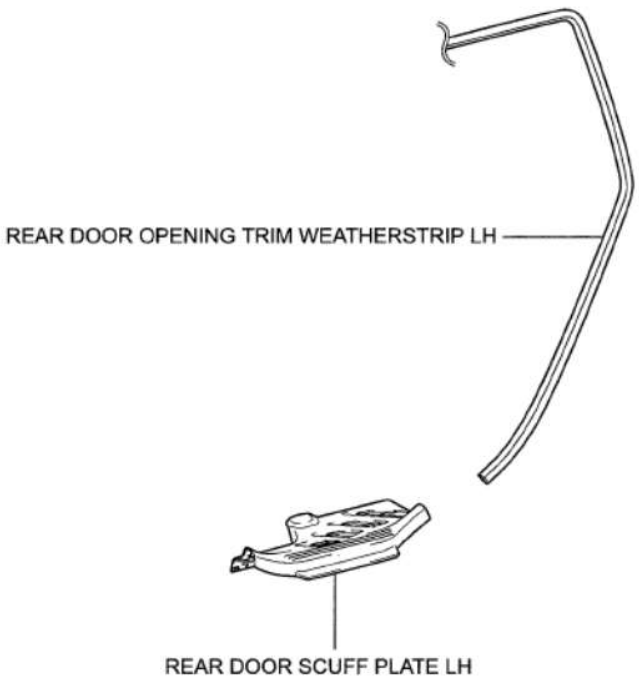


Fig. 89: Identifying Fuel Tank Components And Torque Specifications (3 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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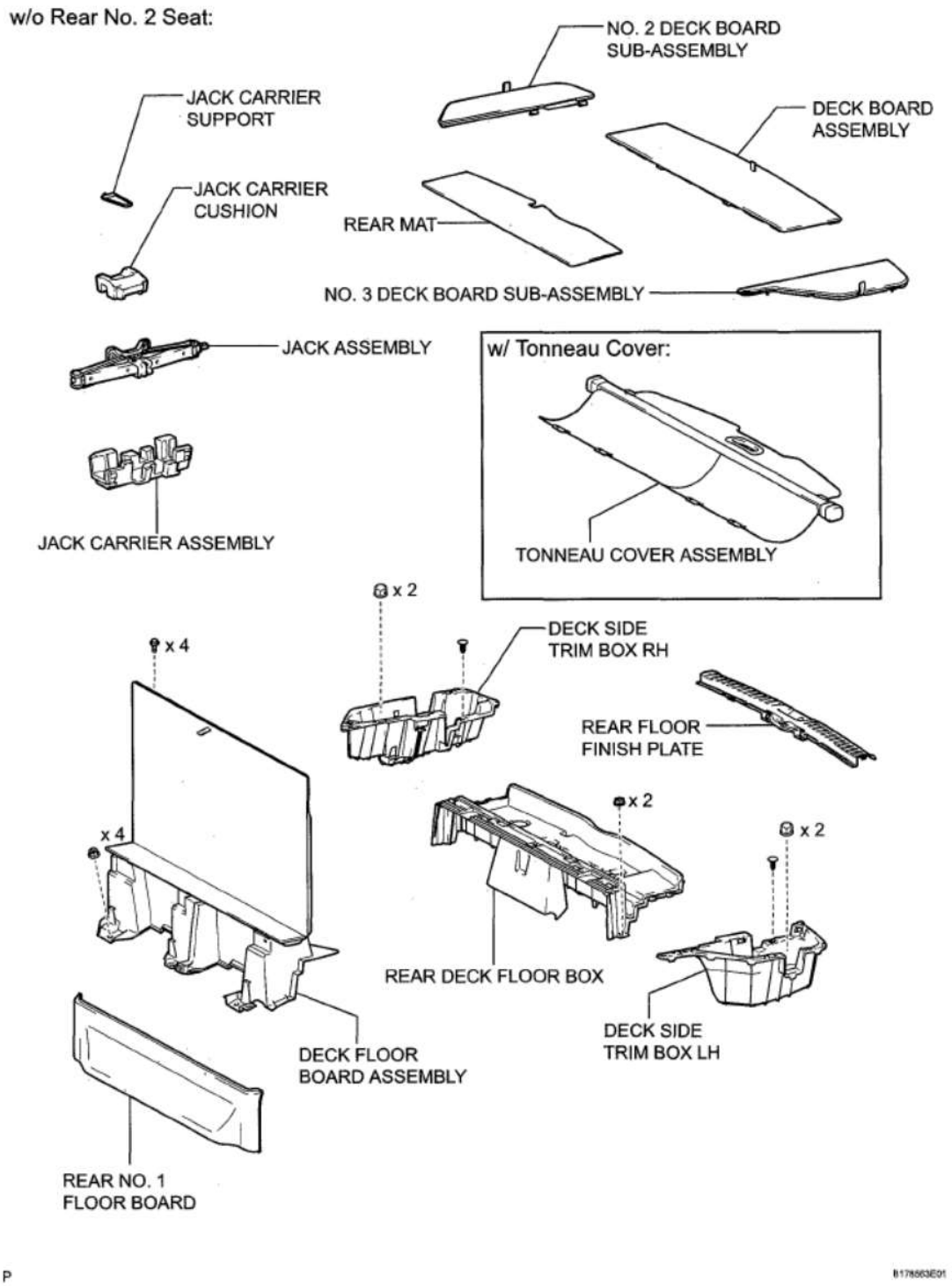


Fig. 90: Identifying Fuel Tank Components And Torque Specifications (4 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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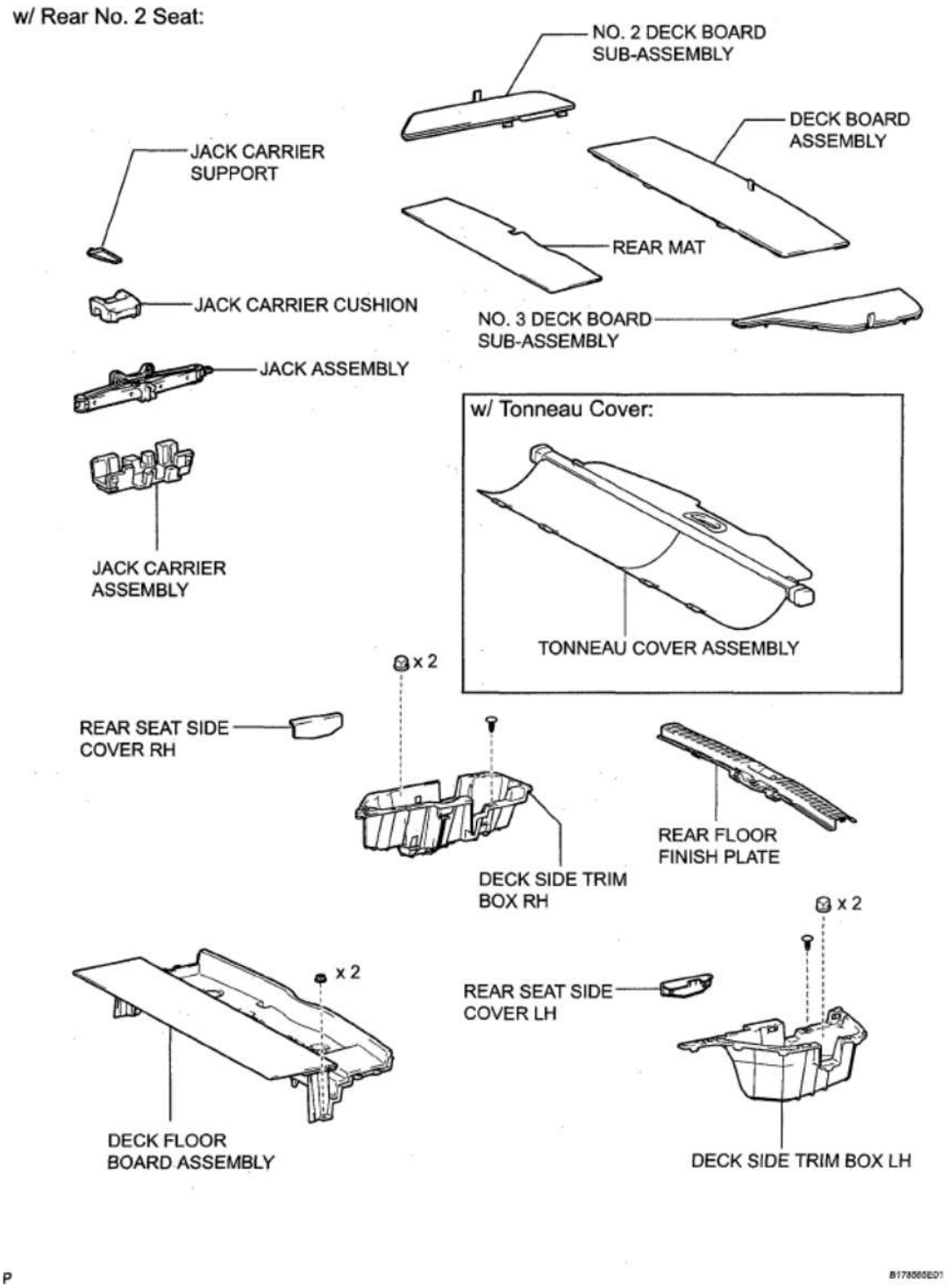


Fig. 91: Identifying Fuel Tank Components And Torque Specifications (5 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

w/ Rear No. 2 Seat:

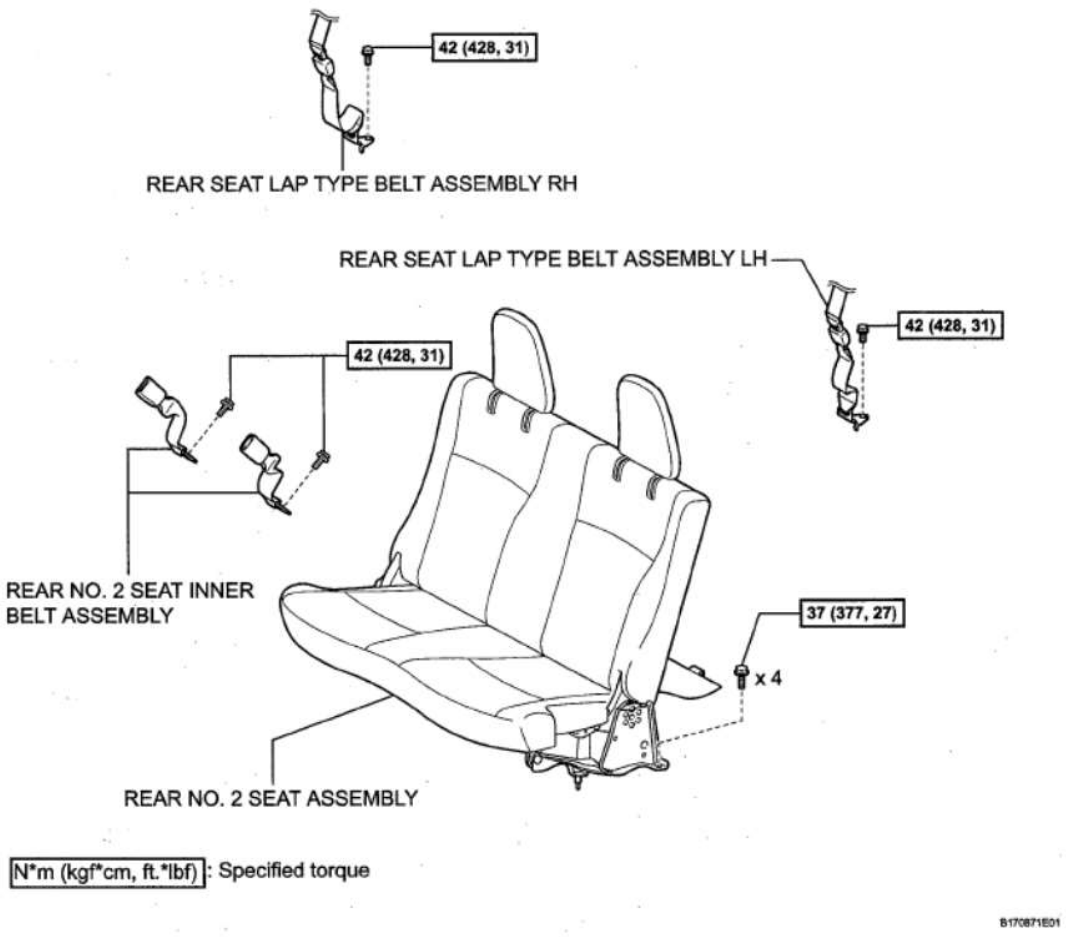


Fig. 92: Identifying Fuel Tank Components And Torque Specifications (6 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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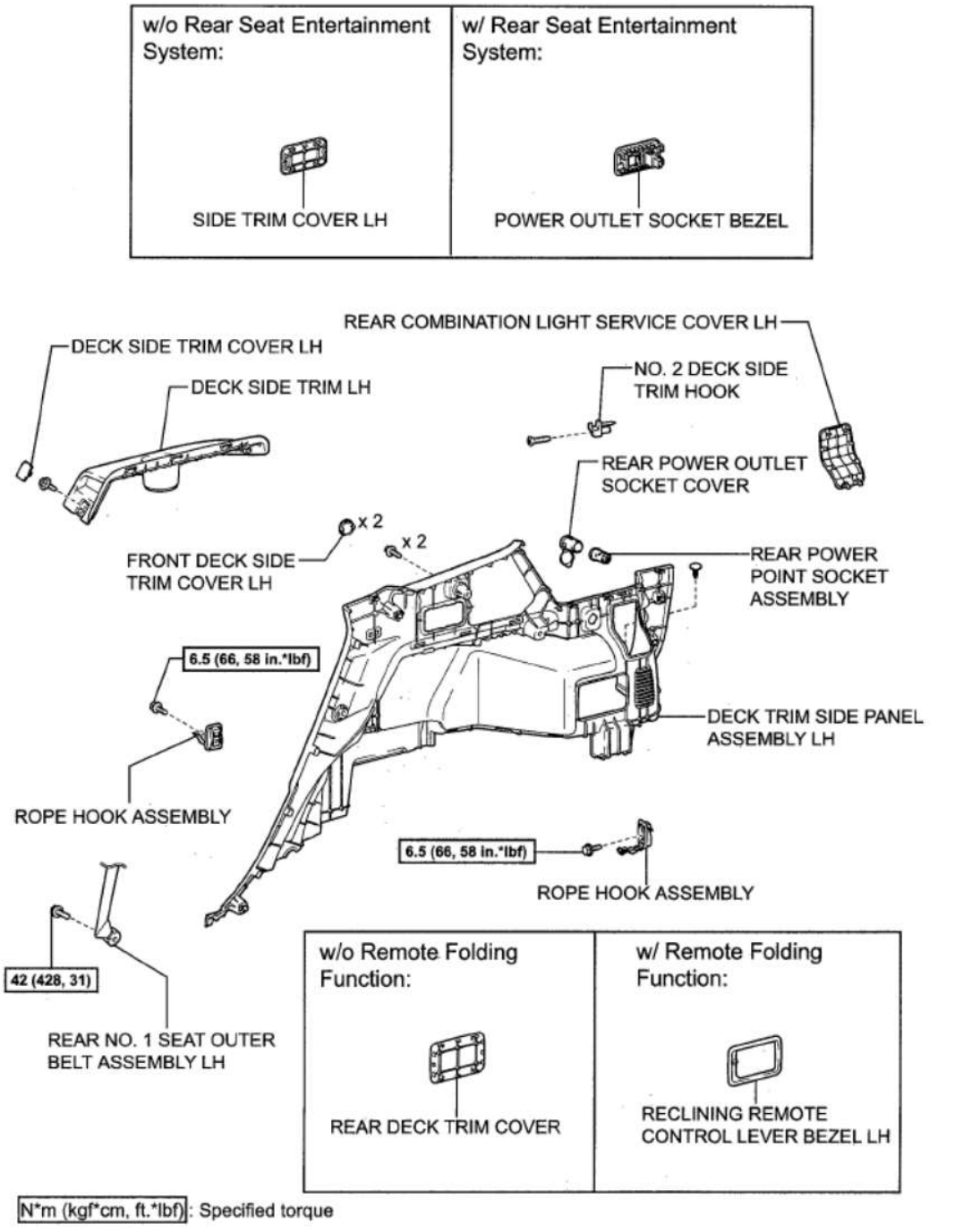


Fig. 93: Identifying Fuel Tank Components And Torque Specifications (7 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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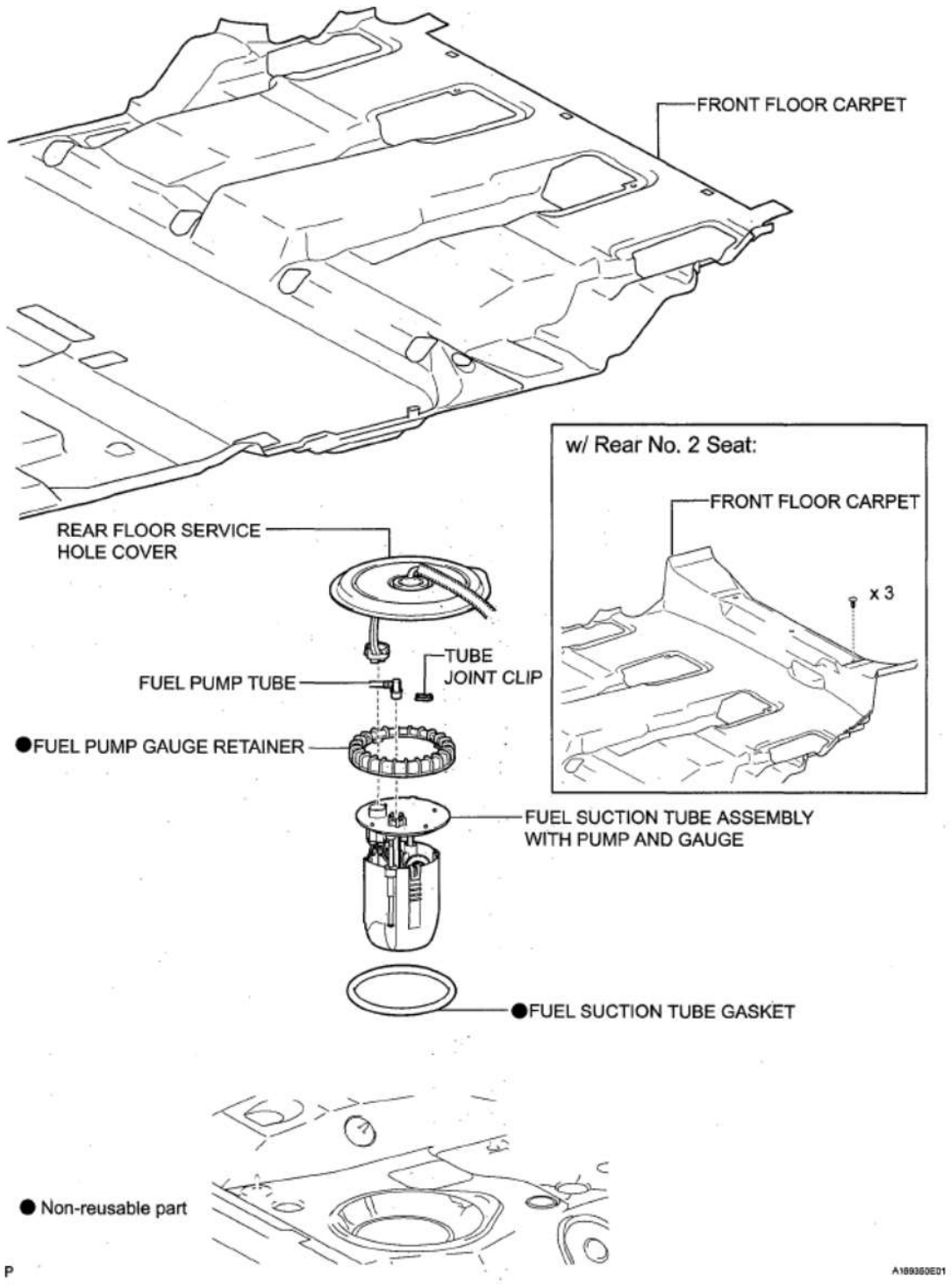


Fig. 94: Identifying Fuel Tank Components And Torque Specifications (8 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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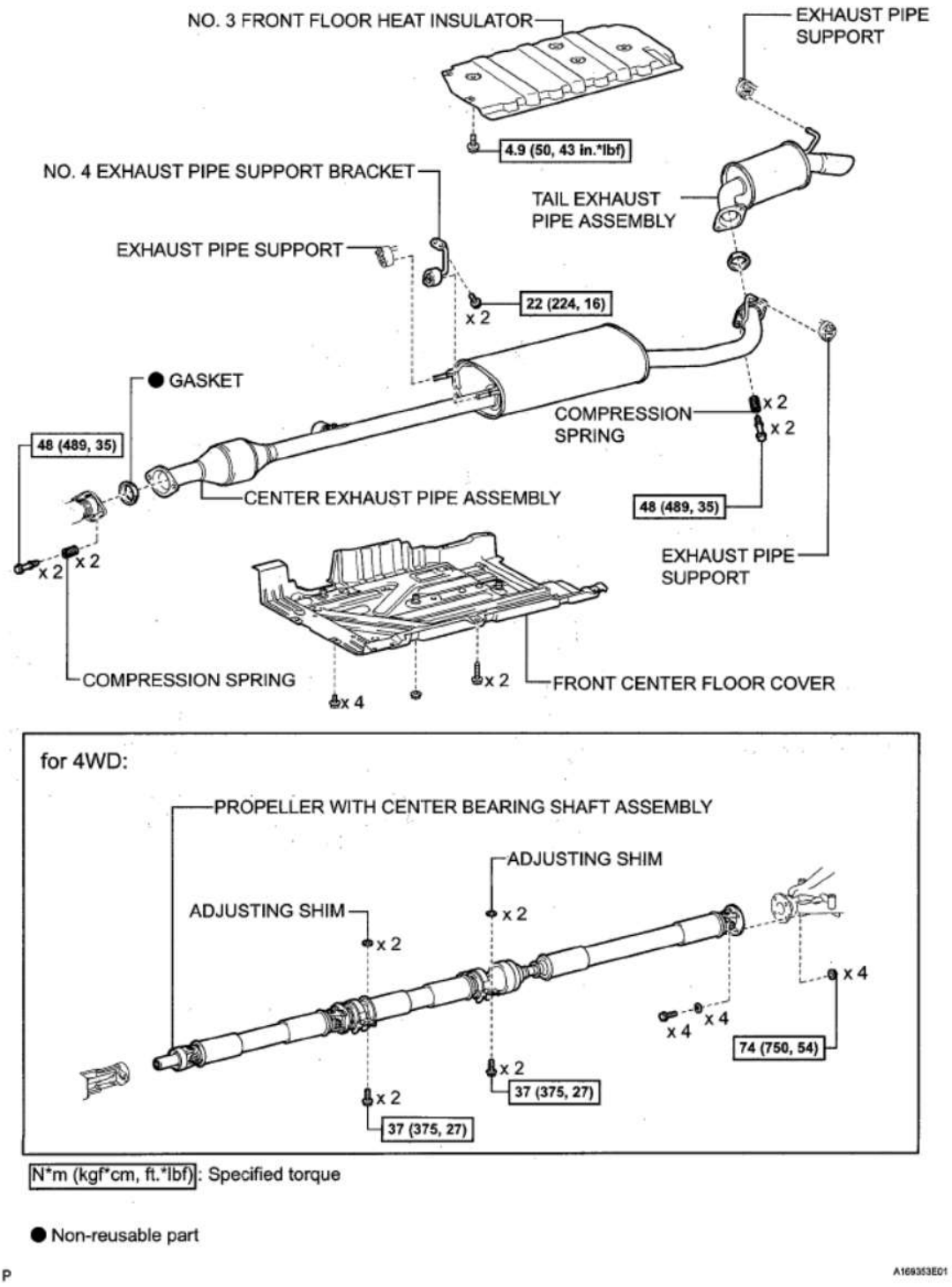


Fig. 95: Identifying Fuel Tank Components And Torque Specifications (9 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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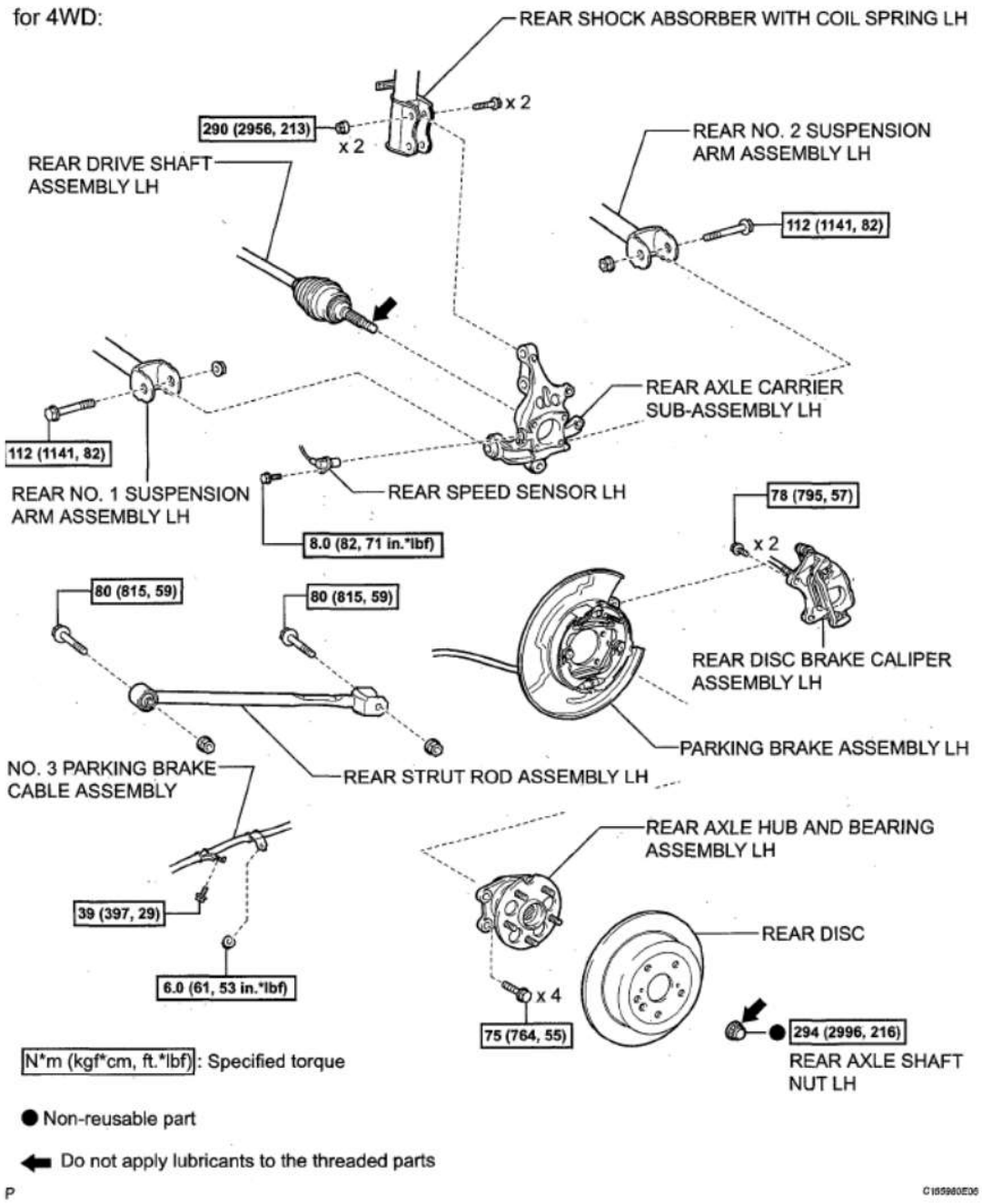


Fig. 96: Identifying Fuel Tank Components And Torque Specifications (10 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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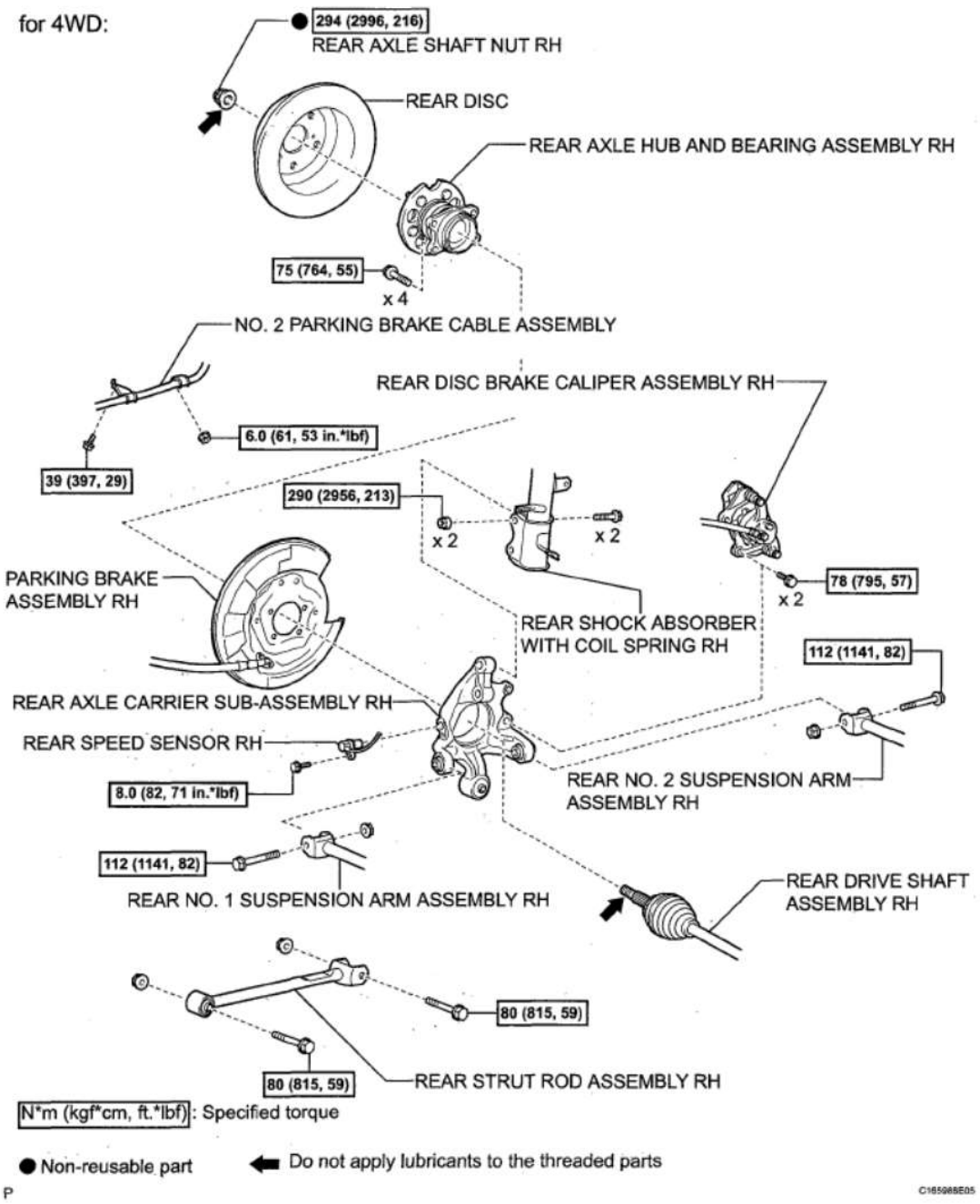


Fig. 97: Identifying Fuel Tank Components And Torque Specifications (11 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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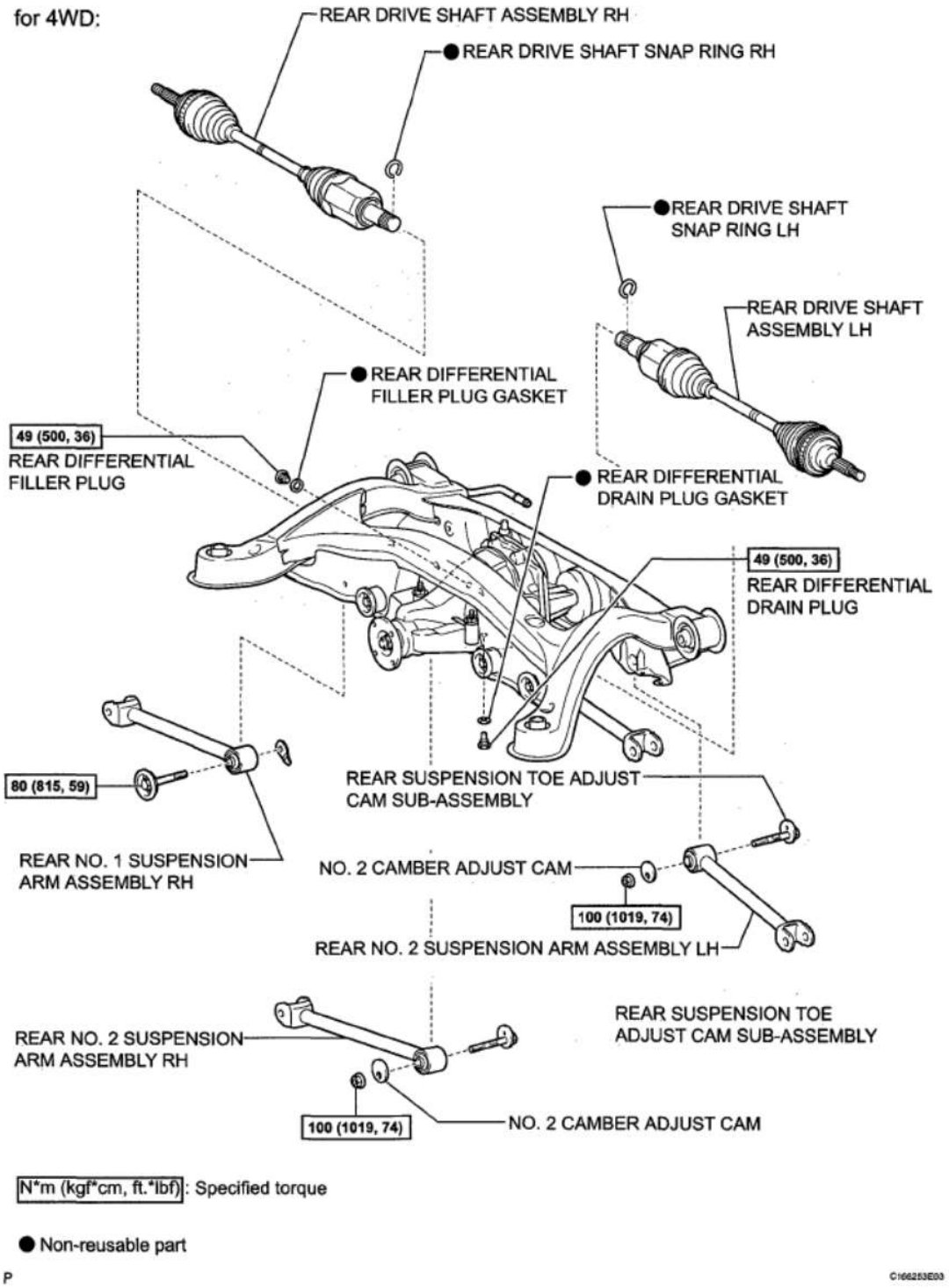


Fig. 98: Identifying Fuel Tank Components And Torque Specifications (12 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

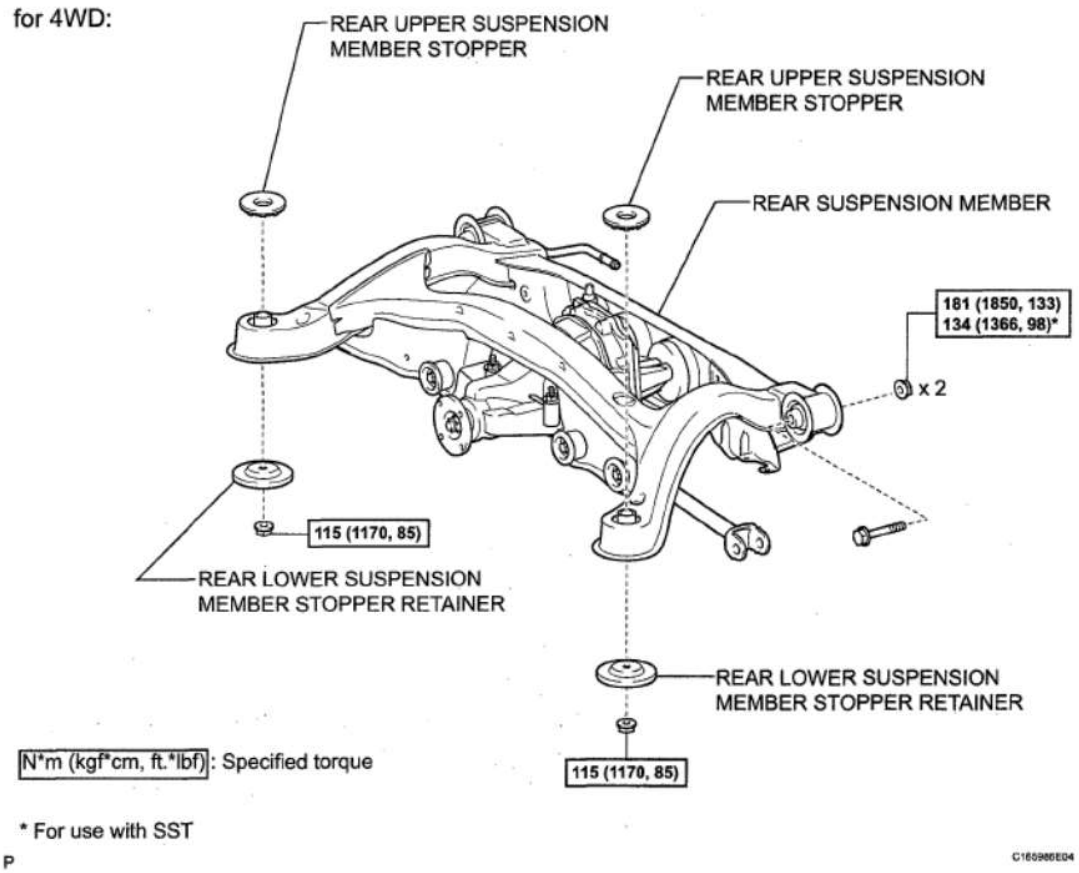


Fig. 99: Identifying Fuel Tank Components And Torque Specifications (13 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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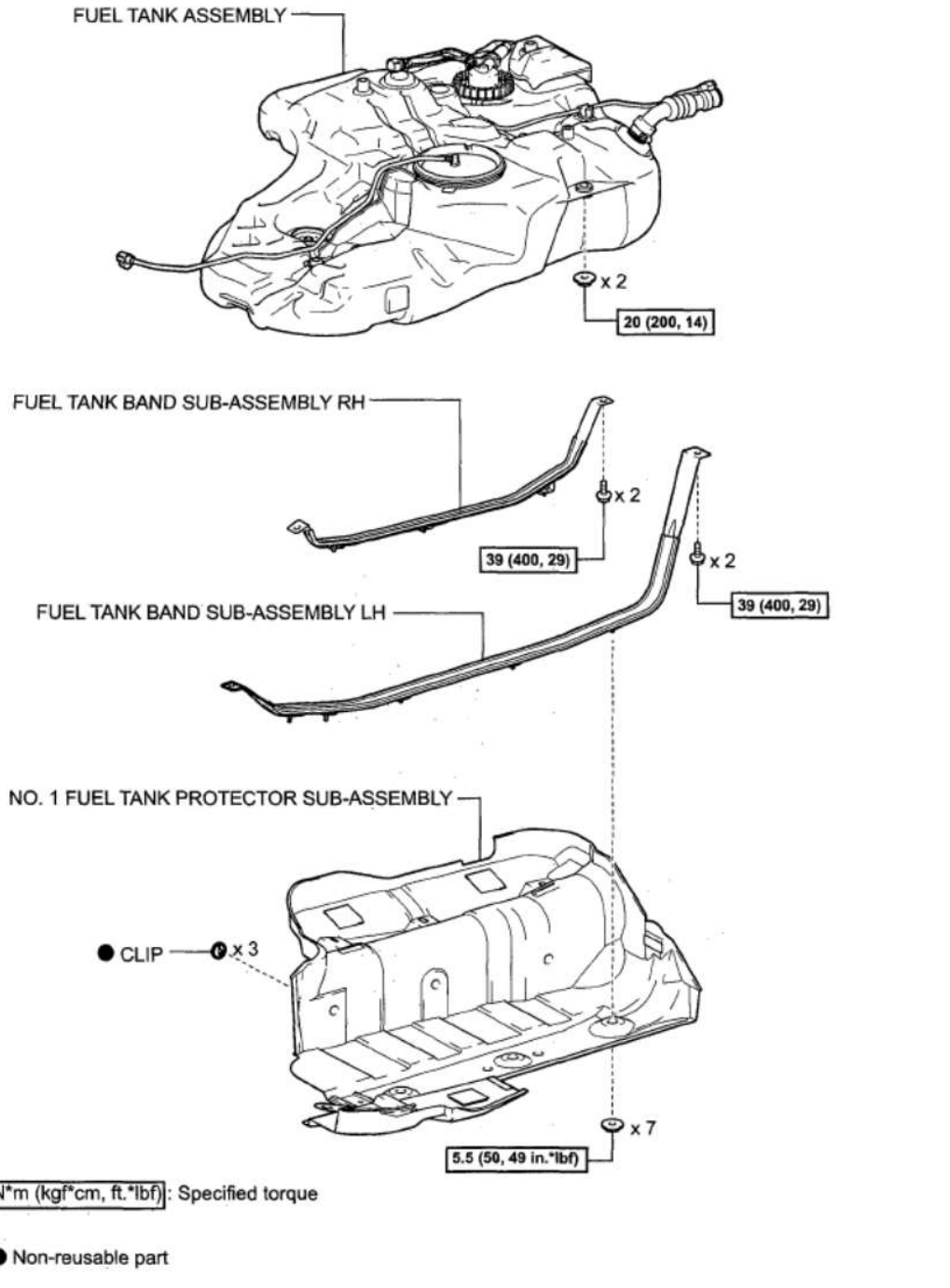


Fig. 100: Identifying Fuel Tank Components And Torque Specifications (14 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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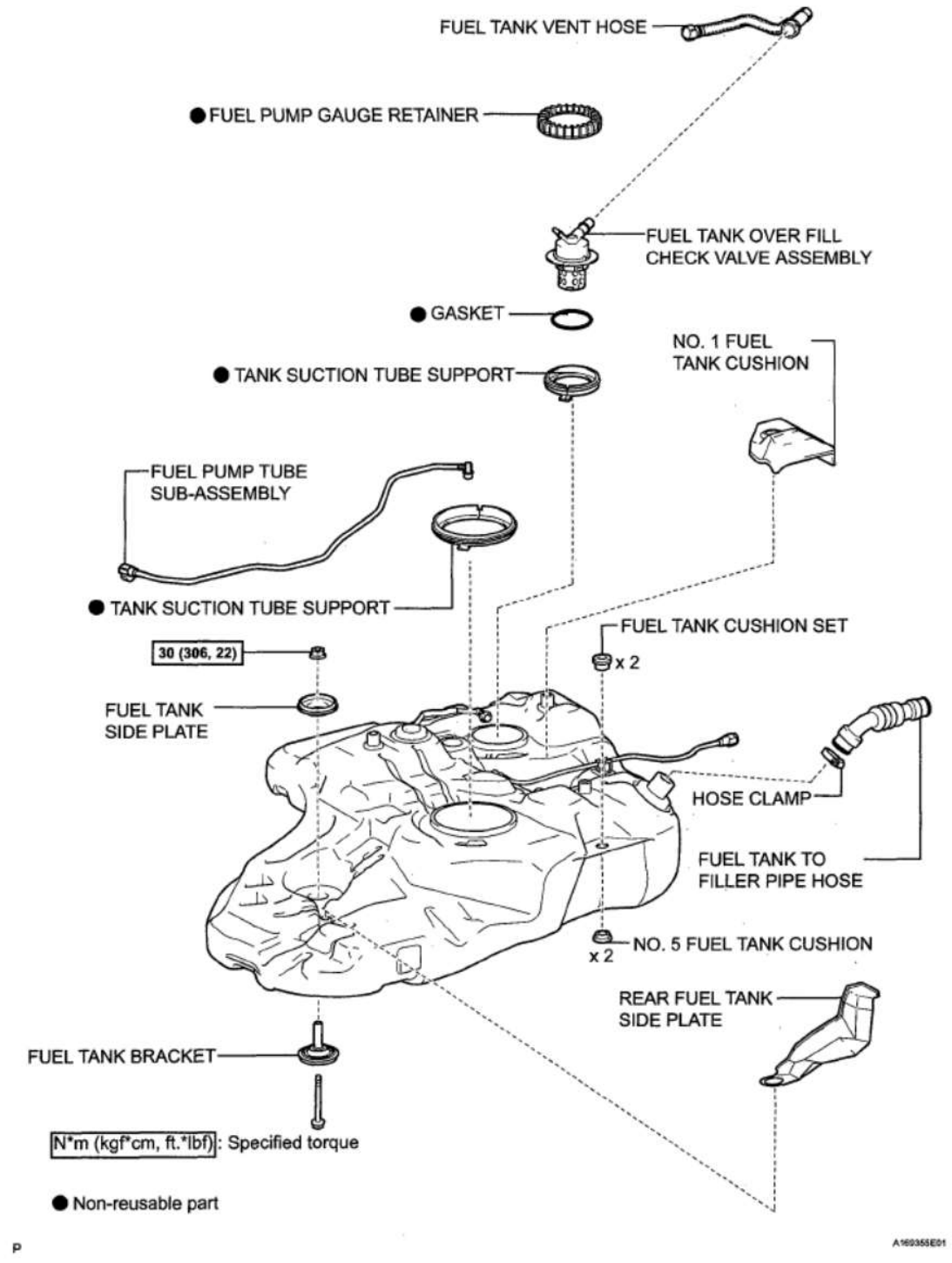


Fig. 101: Identifying Fuel Tank Components And Torque Specifications (15 Of 15)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **DISCHARGE FUEL SYSTEM PRESSURE** (See **REMOVAL**)

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2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL** (See **REMOVAL**)
3. **REMOVE REAR CENTER SEAT ASSEMBLY**
4. **REMOVE REAR SEAT HEADREST ASSEMBLY**
5. **REMOVE REAR SEAT TRACK BRACKET COVER LH** (See **REMOVAL**)
6. **REMOVE REAR OUTER TRACK BRACKET COVER LH** (See **REMOVAL**)
7. **REMOVE REAR INNER TRACK BRACKET COVER** (See **REMOVAL**)
8. **REMOVE REAR SEAT LEG SIDE COVER LH** (See **REMOVAL**)
9. **DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
10. **REMOVE REAR NO. 1 SEAT ASSEMBLY LH** (See **DISASSEMBLY**)
11. **REMOVE REAR SEAT HEADREST ASSEMBLY**
12. **REMOVE REAR SEAT TRACK BRACKET COVER RH** (See **REMOVAL**)
13. **REMOVE REAR OUTER TRACK BRACKET COVER RH** (See **REMOVAL**)
14. **REMOVE REAR INNER TRACK BRACKET COVER** (See **REMOVAL**)
15. **REMOVE REAR SEAT LEG SIDE COVER RH** (See **REMOVAL**)
16. **DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
17. **REMOVE REAR NO. 1 SEAT ASSEMBLY RH** (See **DISASSEMBLY**)
18. **REMOVE REAR DOOR SCUFF PLATE LH** (See **REMOVAL**)
19. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH** (See **REMOVAL**)
20. **REMOVE DECK BOARD ASSEMBLY** (See **REMOVAL**)
21. **REMOVE NO. 3 DECK BOARD SUB-ASSEMBLY** (See **REMOVAL**)
22. **REMOVE NO. 2 DECK BOARD SUB-ASSEMBLY** (See **REMOVAL**)
23. **REMOVE TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)**
24. **REMOVE REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat)** (See **REMOVAL**)
25. **REMOVE REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
26. **REMOVE DECK SIDE TRIM BOX LH** (See **REMOVAL**)
27. **REMOVE REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
28. **REMOVE JACK CARRIER SUPPORT**
29. **REMOVE JACK CARRIER CUSHION** (See **REMOVAL**)
30. **REMOVE JACK ASSEMBLY** (See **REMOVAL**)
31. **REMOVE JACK CARRIER ASSEMBLY** (See **REMOVAL**)
32. **REMOVE DECK SIDE TRIM BOX RH** (See **REMOVAL**)
33. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat)** (See **REMOVAL**)
34. **REMOVE REAR MAT** (See **REMOVAL**)
35. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/ Rear No. 2 Seat)** (See **REMOVAL**)
36. **REMOVE REAR DECK FLOOR BOX (w/o Rear No. 2 Seat)** (See **REMOVAL**)
37. **REMOVE REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat)** (See

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INSTALLATION)

38. **REMOVE REAR SEAT LAP TYPE BELT ASSEMBLY LH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
39. **REMOVE REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat)**
40. **REMOVE REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)** (See **DISASSEMBLY**)
41. **REMOVE REAR FLOOR FINISH PLATE** (See **REMOVAL**)
42. **REMOVE DECK SIDE TRIM COVER LH** (See **REMOVAL**)
43. **REMOVE DECK SIDE TRIM LH** (See **REMOVAL**)
44. **REMOVE SIDE TRIM COVER (w/o Rear Seat Entertainment System)** (See **REMOVAL**)
45. **REMOVE POWER OUTLET SOCKET BEZEL (w/ Rear Seat Entertainment System)** (See **REMOVAL**)
46. **REMOVE REAR COMBINATION LIGHT SERVICE COVER LH** (See **REMOVAL**)
47. **REMOVE REAR POWER POINT SOCKET ASSEMBLY** (See **REAR POWER OUTLET SOCKET**)
48. **REMOVE REAR POWER OUTLET SOCKET COVER** (See **INSTALLATION**)
49. **REMOVE REAR DECK TRIM COVER (w/o Remote Folding Function)** (See **REMOVAL**)
50. **REMOVE RECLINING REMOTE CONTROL LEVER BEZEL LH (w/ Remote Folding Function)** (See **REMOVAL**)
51. **REMOVE ROPE HOOK ASSEMBLY (for LH Side)** (See **REMOVAL**)
52. **REMOVE NO. 2 DECK SIDE TRIM HOOK** (See **REMOVAL**)
53. **REMOVE FRONT DECK SIDE TRIM COVER LH** (See **REMOVAL**)
54. **DISCONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH** (See **REMOVAL**)
55. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH** (See **REMOVAL**)
56. **REMOVE REAR FLOOR SERVICE HOLE COVER** (See **DISASSEMBLY**)
57. **REMOVE FUEL SUCTION TUBE ASSEMBLY WITH PUMP AND GAUGE** (See **DISASSEMBLY**)
58. **DRAIN FUEL**
59. **REMOVE FRONT CENTER FLOOR COVER** (See **REMOVAL**)
60. **REMOVE TAIL EXHAUST PIPE ASSEMBLY** (See **REMOVAL**)
61. **REMOVE CENTER EXHAUST PIPE ASSEMBLY** (See **REMOVAL**)
62. **REMOVE NO. 4 EXHAUST PIPE SUPPORT BRACKET**
    a. Remove the 2 bolts, and then remove the No. 4 exhaust pipe support bracket.
63. **REMOVE NO. 3 FRONT FLOOR HEAT INSULATOR** (See **REMOVAL**)
64. **REMOVE PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (for 4WD)** (See **REMOVAL**)
65. **REMOVE REAR WHEELS (for 4WD)**

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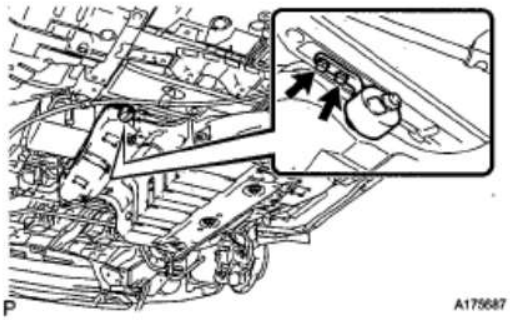


Fig. 102: Locating Bolts And No. 4 Exhaust Pipe Support Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

66. **SEPARATE REAR SPEED SENSOR LH (for 4WD)** (See **REMOVAL**)
67. **SEPARATE REAR SPEED SENSOR RH (for 4WD)** (See **REMOVAL**)
68. **REMOVE REAR AXLE SHAFT NUT LH (for 4WD)**
69. **REMOVE REAR AXLE SHAFT NUT RH (for 4WD)**
70. **REMOVE REAR DISC BRAKE CALIPER ASSEMBLY LH (for 4WD)** (See **REPLACEMENT**)
71. **REMOVE REAR DISC BRAKE CALIPER ASSEMBLY RH (for 4WD)** (See **REMOVAL**)
72. **REMOVE REAR DISC (for 4WD LH Side)**
73. **REMOVE REAR DISC (for 4WD RH Side)**
74. **REMOVE REAR AXLE HUB AND BEARING ASSEMBLY LH (for 4WD)** (See **REMOVAL**)
75. **REMOVE REAR AXLE HUB AND BEARING ASSEMBLY RH (for 4WD)** (See **REMOVAL**)
76. **REMOVE NO. 3 PARKING BRAKE CABLE ASSEMBLY (for 4WD)** (See **INSTALLATION**)
77. **REMOVE NO. 2 PARKING BRAKE CABLE ASSEMBLY (for 4WD)** (See **REMOVAL**)
78. **REMOVE REAR STRUT ROD ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
79. **REMOVE REAR STRUT ROD ASSEMBLY RH (for 4WD)** (See **REMOVAL**)
80. **REMOVE REAR AXLE CARRIER SUB-ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
81. **REMOVE REAR AXLE CARRIER SUB-ASSEMBLY RH (for 4WD)** (See **REMOVAL**)
82. **REMOVE REAR NO. 2 SUSPENSION ARM ASSEMBLY LH (for 4WD)** (See **REMOVAL**)
83. **REMOVE REAR NO. 2 SUSPENSION ARM ASSEMBLY RH (for 4WD)** (See **REMOVAL**)
84. **REMOVE REAR NO. 1 SUSPENSION ARM ASSEMBLY RH (for 4WD)** (See **REMOVAL**)
85. **REMOVE REAR DIFFERENTIAL FILLER PLUG (for 4WD)** (See **REMOVAL**)
86. **REMOVE REAR DIFFERENTIAL DRAIN PLUG (for 4WD)** (See **REMOVAL**)
87. **REMOVE REAR DRIVE SHAFT ASSEMBLY LH (for 4WD)**
88. **REMOVE REAR DRIVE SHAFT SNAP RING LH (for 4WD)**
89. **REMOVE REAR DRIVE SHAFT ASSEMBLY RH (for 4WD)** (See **REMOVAL**)
90. **REMOVE REAR DRIVE SHAFT SNAP RING RH (for 4WD)** (See **REMOVAL**)
91. **REMOVE REAR SUSPENSION MEMBER (for 4WD)** (See **REMOVAL**)
92. **REMOVE NO. 1 FUEL TANK PROTECTOR SUB-ASSEMBLY**

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a. Remove the 3 clips (A) and 7 nuts, and then remove the No. 1 fuel tank protector sub-assembly.

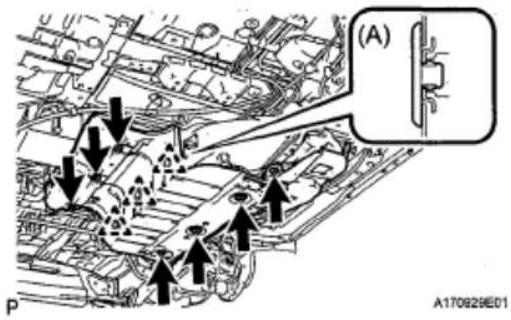


Fig. 103: Locating Clips, Nuts And No. 1 Fuel Tank Protector Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

93. **REMOVE FUEL TANK ASSEMBLY**

a. Disconnect the fuel pump tube.

1. Pinch the tab of the retainer to disengage the lock claws and pull it down as shown in the illustration.
2. Pull out the fuel pump tube.

NOTE:

- **Check if there is any dirt or mud around the connector before this operation and clean the connector if necessary.**
- **It is necessary to prevent mud or dirt from entering the quick connector. If any foreign objects enter the connector, the O-rings may seal properly.**
- **Do not use any tool in this operation.**
- **Do not bend or twist the nylon tube. Protect the connector by covering it with a plastic bag.**
- **When the pipe and connector are stuck, push and pull the connector to release it and pull the connector out carefully.**

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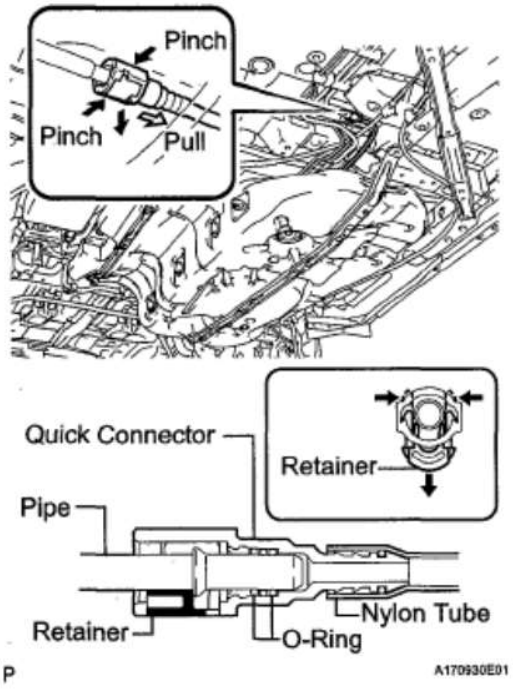


Fig. 104: Pinching Tab Of Retainer To Disengage Lock Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Disconnect the fuel tank vent hose from the charcoal canister assembly.
   1. Pinch the retainer and pull out the quick connector while pushing the quick connector against the pipe to disconnect the fuel tank vent hose from the charcoal canister assembly.

NOTE:

- **Remove dirt or foreign objects on the quick connector before this work.**
- **Do not allow any scratches or foreign objects on the parts when disconnecting as the fuel hose connector has the O-ring that seals the pipe.**
- **Perform this work by hand. Do not use any tools.**
- **Do not forcibly bend, twist or turn the nylon tube.**
- **Protect the connected part by covering it with a plastic bag after disconnecting the fuel tank vent hose.**

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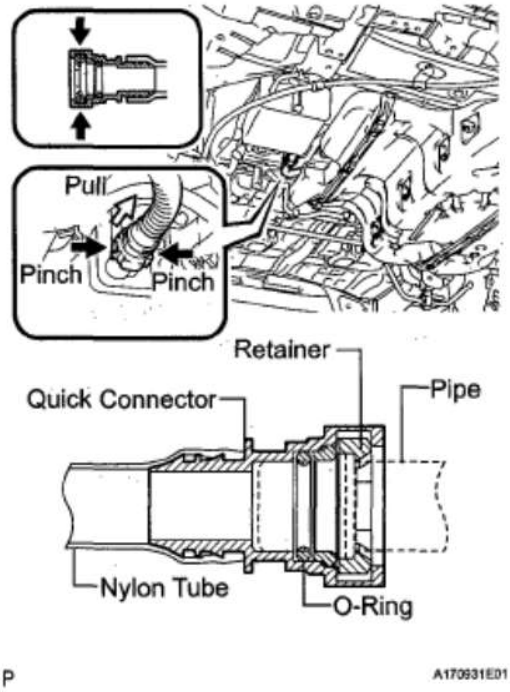


Fig. 105: Disconnecting Fuel Tank Vent Hose From Charcoal Canister Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- **If the quick connector and pipe are stuck, push and pull them to release.**

c. Disconnect the No. 3 fuel tank breather tube.
   1. Pinch the tube connector and then pull out the No. 3 fuel tank breather tube.

NOTE:

- **Check if there is any dirt or mud around the connector before this operation and clean the connector as necessary.**
- **It is necessary to prevent mud or dirt from entering the quick connector. If any foreign objects enter the connector, the O-rings may seal properly.**
- **Do not use any tool in this operation.**
- **Do not bend or twist the nylon tube. Protect the connector by covering it with a plastic bag.**
- **When the pipe and connector are stuck, push and pull the connector to release it and pull the connector out carefully.**

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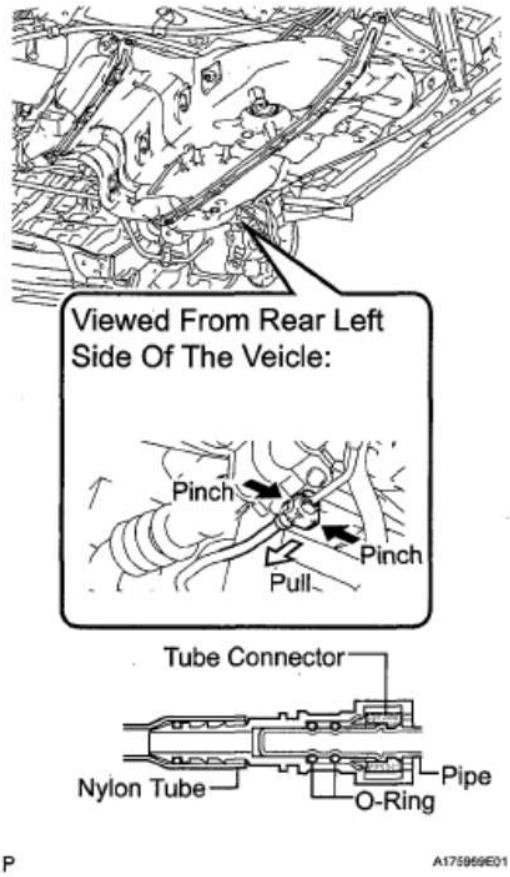


Fig. 106: Pinching Tube Connector And Pulling Out No. 3 Fuel Tank Breather Tube
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Loosen the hose clamp bolt and disconnect the fuel tank to filler pipe hose.
e. Set a transmission jack under the fuel tank.
f. Remove the 4 bolts, and then remove the 2 fuel tank bands.
g. Remove the 2 nuts.

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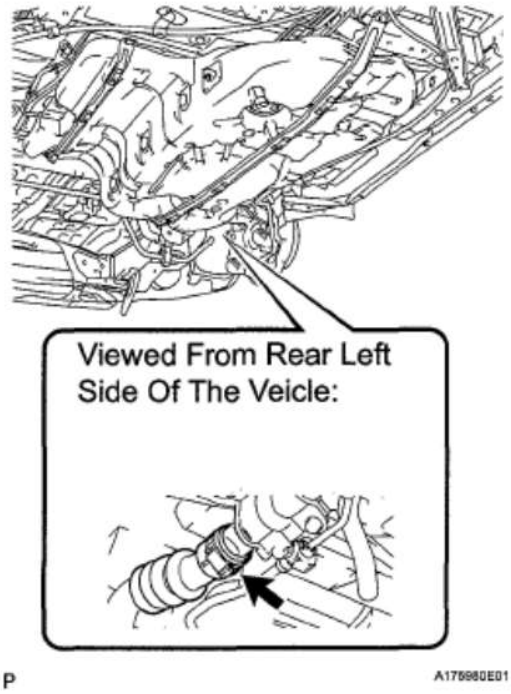


Fig. 107: Locating Hose Clamp Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

h. Operate the transmission jack to remove the fuel tank.

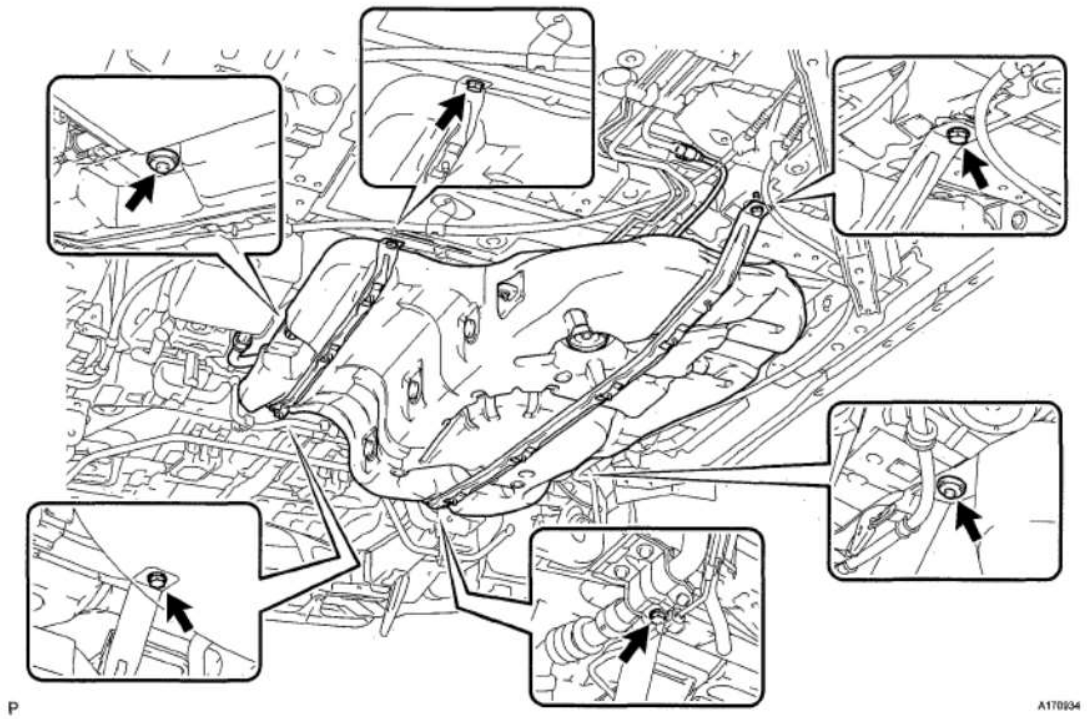


Fig. 108: Locating Fuel Tank Bolts

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

94. **REMOVE REAR FUEL TANK SIDE PLATE**
    a. Remove the rear fuel tank side plate.

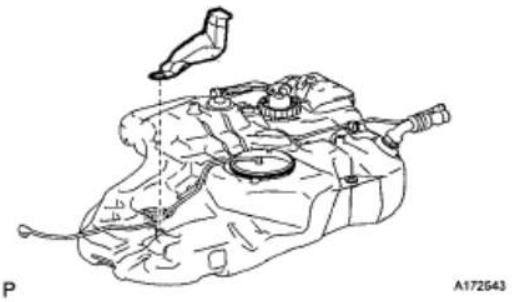


Fig. 109: Identifying Rear Fuel Tank Side Plate
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

95. **REMOVE NO. 1 FUEL TANK CUSHION**
    a. Remove the No. 1 fuel tank cushion.

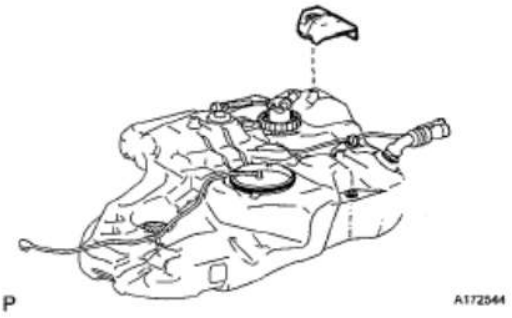
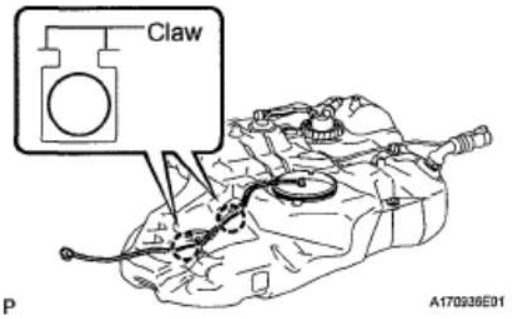


Fig. 110: Identifying No. 1 Fuel Tank Cushion
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

96. **REMOVE FUEL PUMP TUBE SUB-ASSEMBLY**
    a. Release the 2 claws, and then remove the fuel pump tube.



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Fig. 111: Identifying Claws And Fuel Pump Tube
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

97. **REMOVE FUEL TANK TO FILLER PIPE HOSE**
    a. Loosen the hose clamp bolt, and then remove the fuel tank to filler pipe hose.

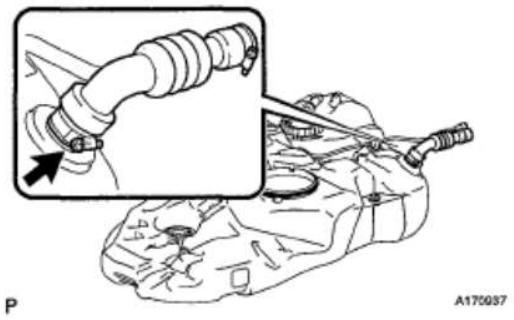


Fig. 112: Locating Hose Clamp Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

98. **REMOVE FUEL TANK VENT HOSE**
    a. Disconnect the fuel tank vent hose from the fuel tank over fill check valve assembly.
        1. Pinch the retainer and pull out the quick connector while pushing the quick connector against the pipe to disconnect the fuel tank vent hose from the fuel tank over fill check valve assembly.

NOTE:

- **Remove dirt or foreign objects on the quick connector before this work.**
- **Do not allow any scratches or foreign objects on the parts when disconnecting as the fuel hose connector has the O-ring that seals the pipe.**
- **Perform this work by hand. Do not use any tools.**
- **Do not forcibly bend, twist or turn the nylon tube.**
- **Protect the connected part by covering it with a plastic bag after disconnecting the fuel tank vent hose.**
- **If the quick connector and pipe are stuck, push and pull them to release.**

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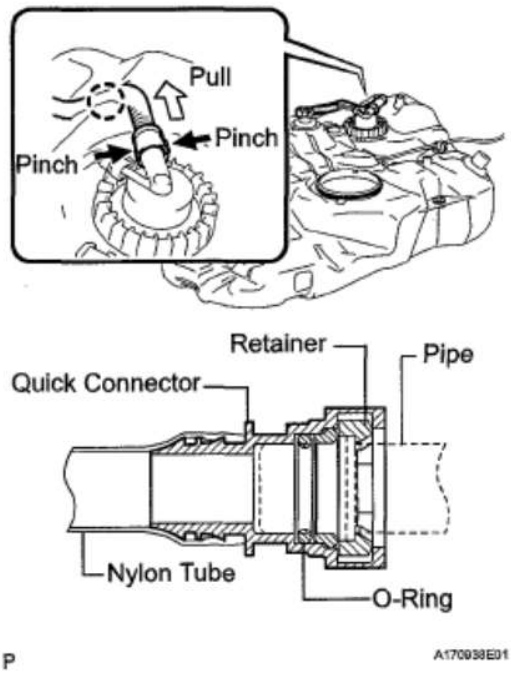


Fig. 113: Pinching Retainer And Pulling Out Quick Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Disconnect the No. 1 evaporation vent tube.

NOTE:

- **Check if there is any dirt or mud around the connector before this operation and clean the connector as necessary.**
- **It is necessary to prevent mud or dirt from entering the quick connector. If any foreign objects enter the connector, the O-rings may seal properly.**
- **Do not use any tool in this operation.**
- **Do not bend or twist the nylon tube. Protect the connector by covering it with a plastic bag.**
- **When the pipe and connector are stuck, push and pull the connector to release it and pull the connector out carefully.**

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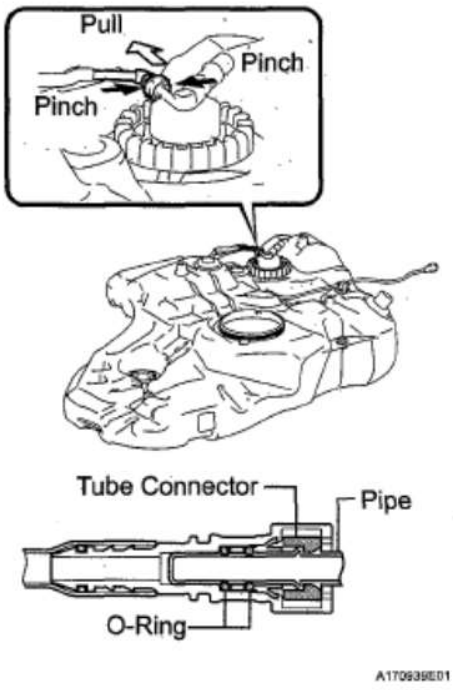


Fig. 114: Disconnecting No. 1 Evaporation Vent Tube
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

99. **REMOVE FUEL TANK OVER FILL CHECK VALVE ASSEMBLY**
    a. Using a 6 mm socket hexagon wrench, install SST to the fuel pump gauge retainer.

    SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

    HINT:

    - Engage the SST claws securely with the fuel pump gauge retainer ribs to secure SST.
    - Install SST while pressing the SST claws toward the fuel pump gauge retainer (toward the center of SST).

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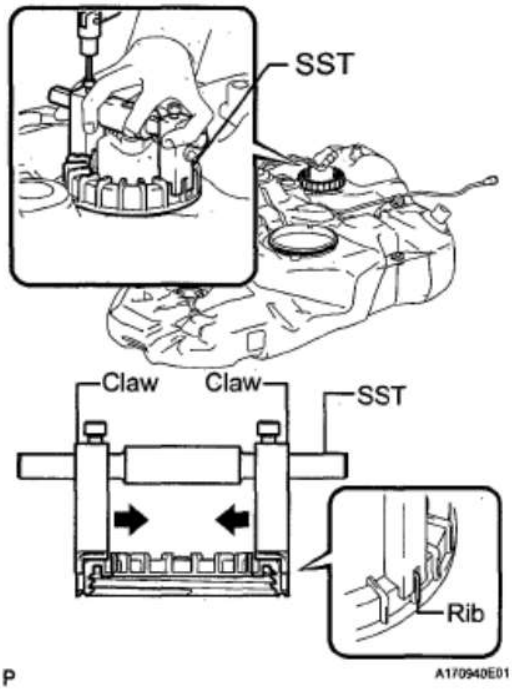


Fig. 115: Installing SST To Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Using SST, loosen the fuel pump gauge retainer.

SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

NOTE: Loosen the retainer by turning it counterclockwise while holding the SST down. Do not allow the claw of the tank suction tube support to slip out of its groove on the fuel tank.

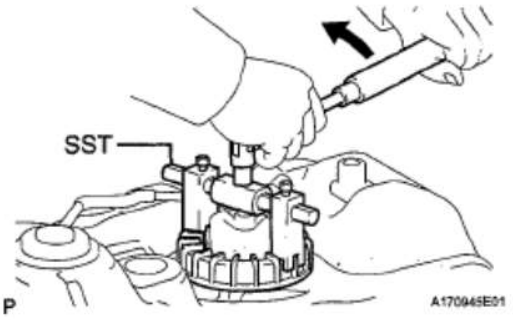


Fig. 116: Loosening Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

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The ribs on the fuel pump gauge retainer can be fitted into the tips of SST.

c. Remove the fuel pump gauge retainer.
d. Remove the fuel tank over fill check valve assembly.

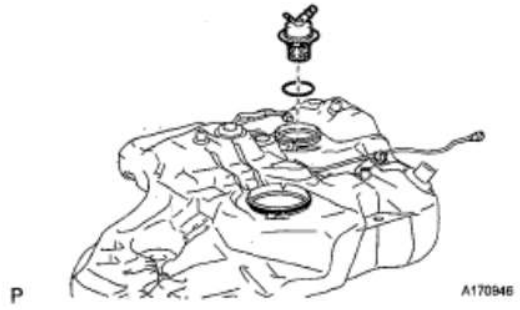


Fig. 117: Identifying Fuel Tank Over Fill Check Valve Assembly And Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Remove the tank suction tube support and gasket from the fuel tank.



Fig. 118: Identifying Tank Suction Tube Support And Gasket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

100. **REMOVE TANK SUCTION TUBE SUPPORT**
a. Remove the tank suction tube support from the fuel tank.



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Fig. 119: Identifying Tank Suction Tube Support
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

101. **REMOVE FUEL TANK SIDE PLATE**
   a. Remove the bolt and nut, and then remove the fuel tank side plate and the fuel tank bracket.

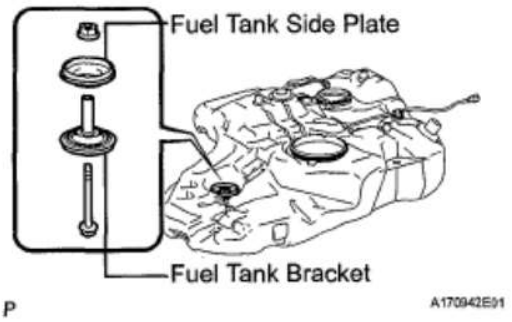


Fig. 120: Identifying Fuel Tank Side Plate And Fuel Tank Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

102. **REMOVE FUEL TANK CUSHION SET**
   a. Remove the fuel tank cushion sets and No. 5 fuel tank cushions.

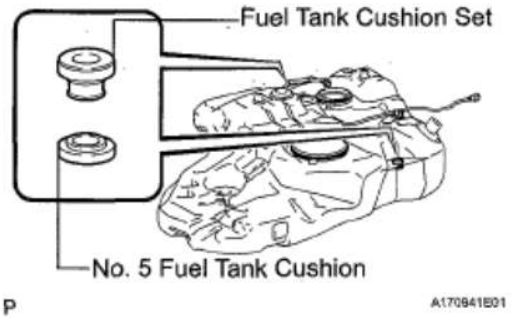


Fig. 121: Identifying Fuel Tank Cushion Sets And No. 5 Fuel Tank Cushions
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL FUEL TANK CUSHION SET**
   a. Install the fuel tank cushion sets and No. 5 fuel tank cushions.

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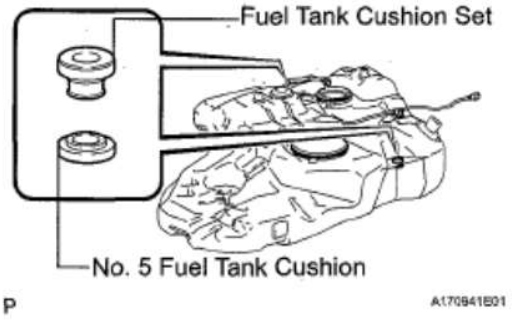


Fig. 122: Identifying Fuel Tank Cushion Sets And No. 5 Fuel Tank Cushions
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL FUEL TANK SIDE PLATE**
   a. Install the fuel tank side plate and the fuel tank bracket with the bolt and nut.

   Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

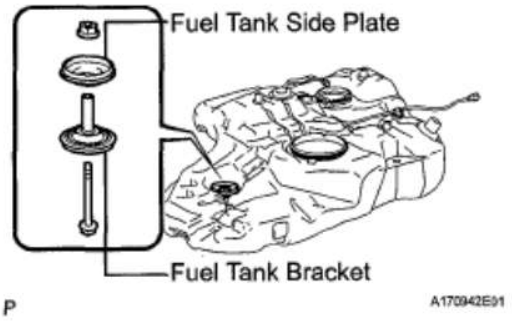


Fig. 123: Identifying Fuel Tank Side Plate, Fuel Tank Bracket With Bolt And Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL TANK SUCTION TUBE SUPPORT**
   a. Install a new tank suction tube support as shown in the illustration.

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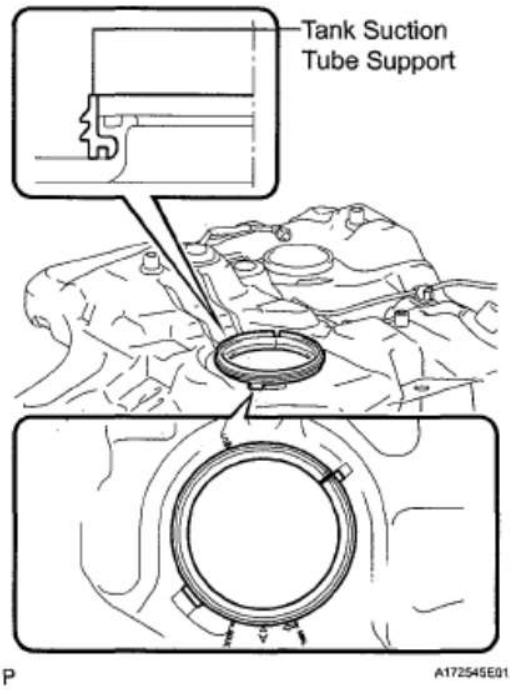
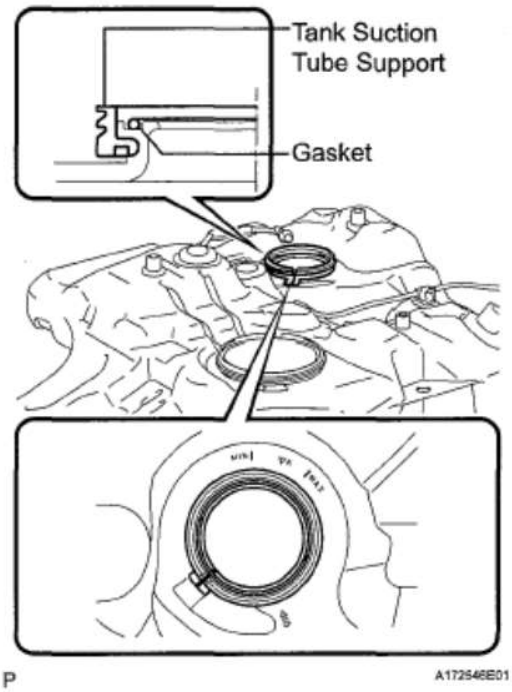


Fig. 124: Identifying Tank Suction Tube Support
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL FUEL TANK OVER FILL CHECK VALVE ASSEMBLY**
   a. Install a new tank suction tube support and new gasket as shown in the illustration.



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Fig. 125: Identifying Tank Suction Tube Support And Gasket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Attach the fuel tank over fill check valve assembly to the fuel tank.
c. Align the keyway of the fuel suction tube support with the key of the fuel tank over fill check valve assembly.

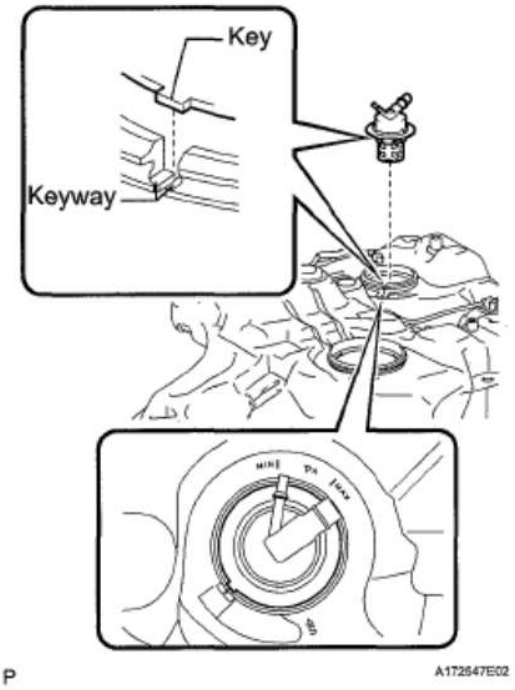


Fig. 126: Identifying Keyway Of Fuel Suction Tube Support
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Align the triangle mark on a new fuel pump gauge retainer with the "S" mark, and attach the fuel pump gauge retainer.

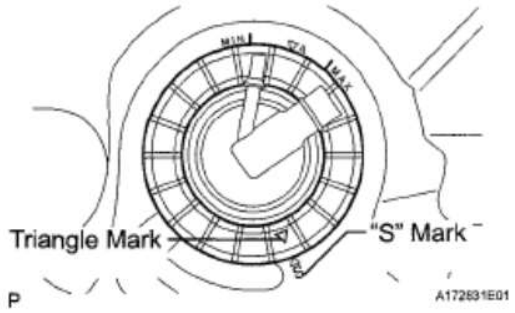


Fig. 127: Identifying Triangle Mark And S Marks
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Using a 6 mm socket hexagon wrench, install SST to the fuel pump gauge retainer.

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SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

HINT:

- Engage the SST claws securely with the fuel pump gauge retainer ribs to secure SST.
- Install SST while pressing the SST claws toward the fuel pump gauge retainer (toward the center of SST).

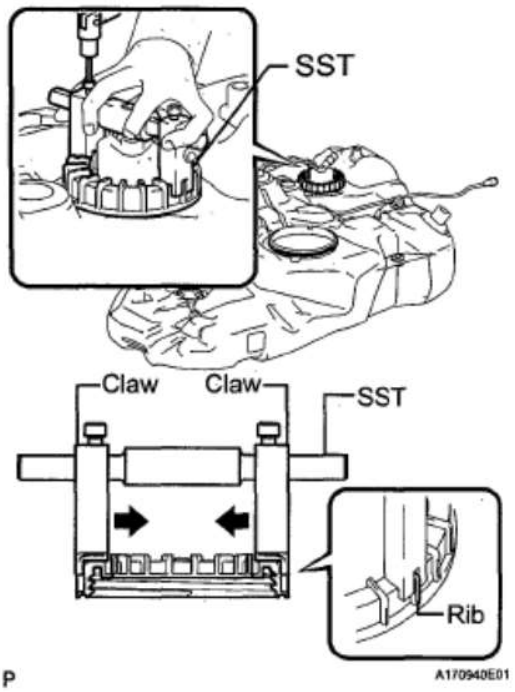


Fig. 128: Installing SST To Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

f. Rotate the fuel pump gauge retainer by hand, then tighten it one complete turn and another half turn using SST. The triangle mark on the fuel pump gauge retainer must be positioned between the "MIN" and "MAX" marks on the fuel tank.

SST 09808-14020 (09808-01410, 09808-01420, 09808-01430)

NOTE:

- **Do not use any tools other than specified in this operation. Damage to the fuel pump gauge retainer or the fuel tank may result.**
- **Fully tighten the retainer by turning it clockwise while holding SST down. Do not allow the claw of the tank suction tube support to slip out of its groove on the fuel tank.**

HINT:

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The ribs on the fuel pump gauge retainer can be fitted into the tips of SST.

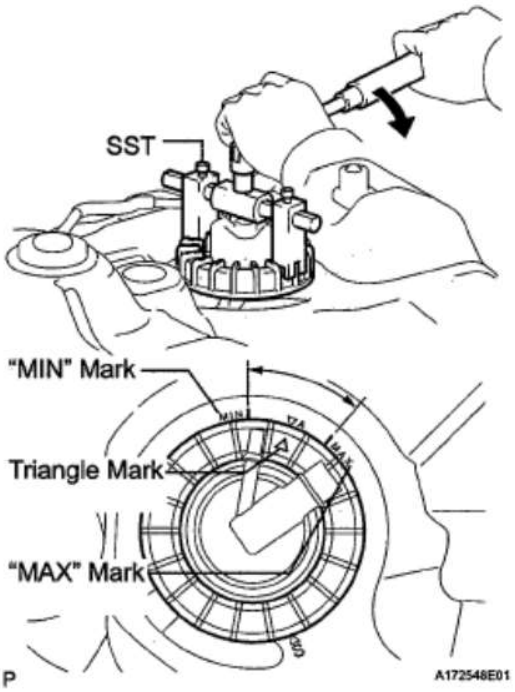


Fig. 129: Rotating Fuel Pump Gauge Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL FUEL TANK VENT HOSE**
   a. Connect the No. 1 evaporation vent tube.
      1. Align the axis of the connector with the axis of the pipe. Push the pipe into the connector until the connector makes a click sound. If the connection is too tight, apply a small amount of fresh engine oil to the tip of the pipe.

NOTE:

- **Check for damage or foreign objects on the parts that are to be connected.**
- **After connecting, check that the fuel tube connector and the pipe are securely connected by pulling on them.**

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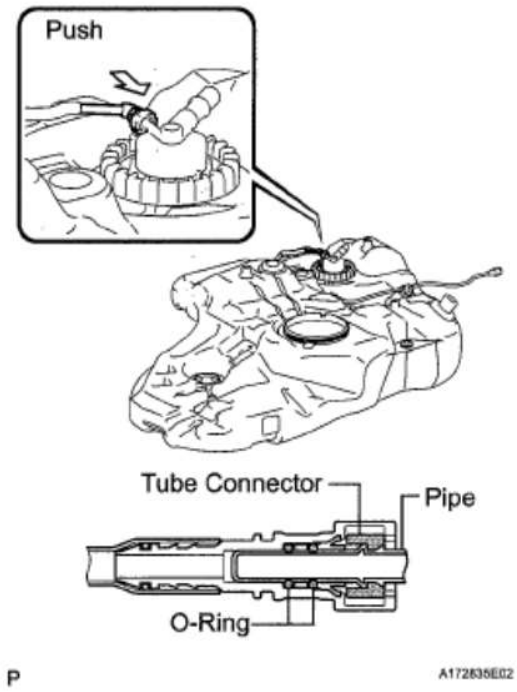


Fig. 130: Connecting No. 1 Evaporation Vent Tube
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Connect the fuel tank vent hose.
   1. Align the axis of the connector with the axis of the pipe. Push the pipe into the connector until the connector makes a click sound. If the connection is too tight, apply a small amount of fresh engine oil to the tip of the pipe.

NOTE:
- **Check for damage or foreign objects on the parts that are to be connected.**
- **After connecting, check that the fuel tube connector and the pipe are securely connected by pulling on them.**

   2. Install the fuel tank vent hose, and engage the claw.

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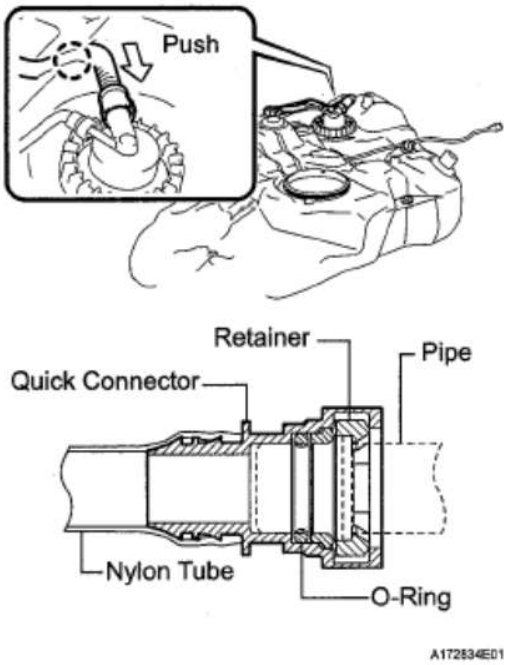


Fig. 131: Connecting Fuel Tank Vent Hose
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL FUEL TANK TO FILLER PIPE HOSE**
   a. Install the fuel tank to filler pipe hose with the hose clamp.

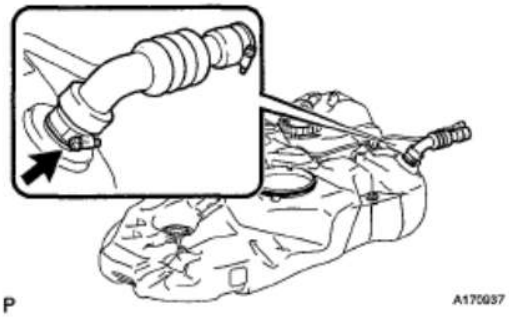


Fig. 132: Locating Hose Clamp Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **INSTALL FUEL PUMP TUBE SUB-ASSEMBLY**
   a. Install the fuel pump tube, and engage the 2 claws.

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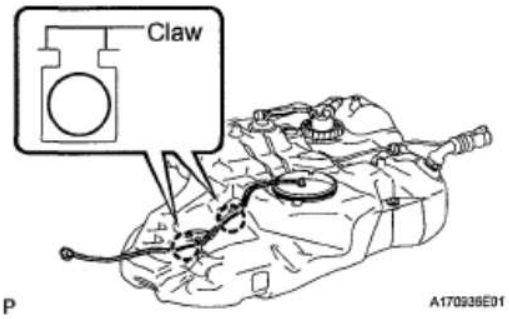


Fig. 133: Identifying Fuel Pump Tube And Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **INSTALL NO. 1 FUEL TANK CUSHION**
   a. Apply new butyl tape to the positions of the No. 1 fuel tank cushion as shown in the illustration.

Length

LENGTH SPECIFICATIONS

Dimension	Length
A	55 mm (2.17 in.)
B	20 mm (0.79 in.)
C	60 mm (2.36 in.)
D	20 mm (0.79 in.)
E	80 mm (3.15 in.)
F	20 mm (0.79 in.)
G	53.4 mm (2.10 in.)
H	49.2 mm (1.94 in.)
I	18.9 mm (0.74 in.)
J	43.3 mm (1.70 in.)

   b. Install the No. 1 fuel tank cushion.

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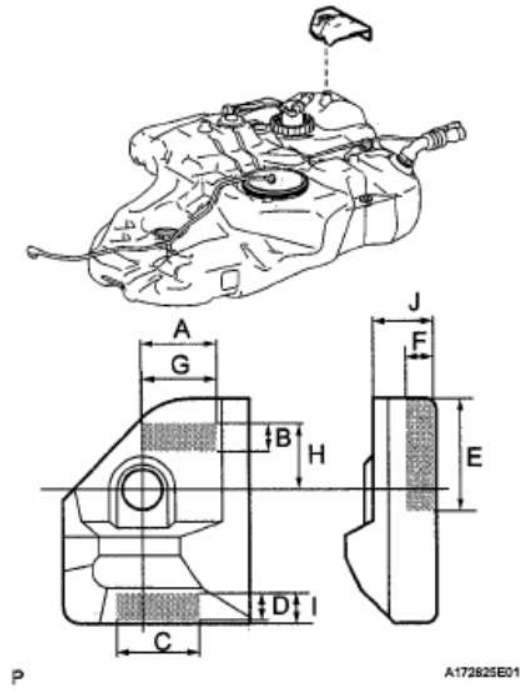


Fig. 134: Identifying No. 1 Fuel Tank Cushion
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **INSTALL REAR FUEL TANK SIDE PLATE**
   a. Install the rear fuel tank side plate.
10. **INSTALL FUEL TANK ASSEMBLY**
   a. Set the fuel tank onto a transmission jack.
   b. Operating the transmission jack, install the fuel tank.

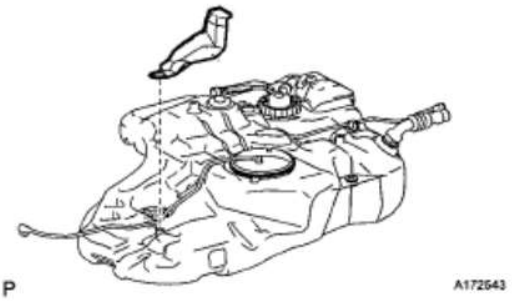


Fig. 135: Identifying Rear Fuel Tank Side Plate
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Tighten the 2 nuts.

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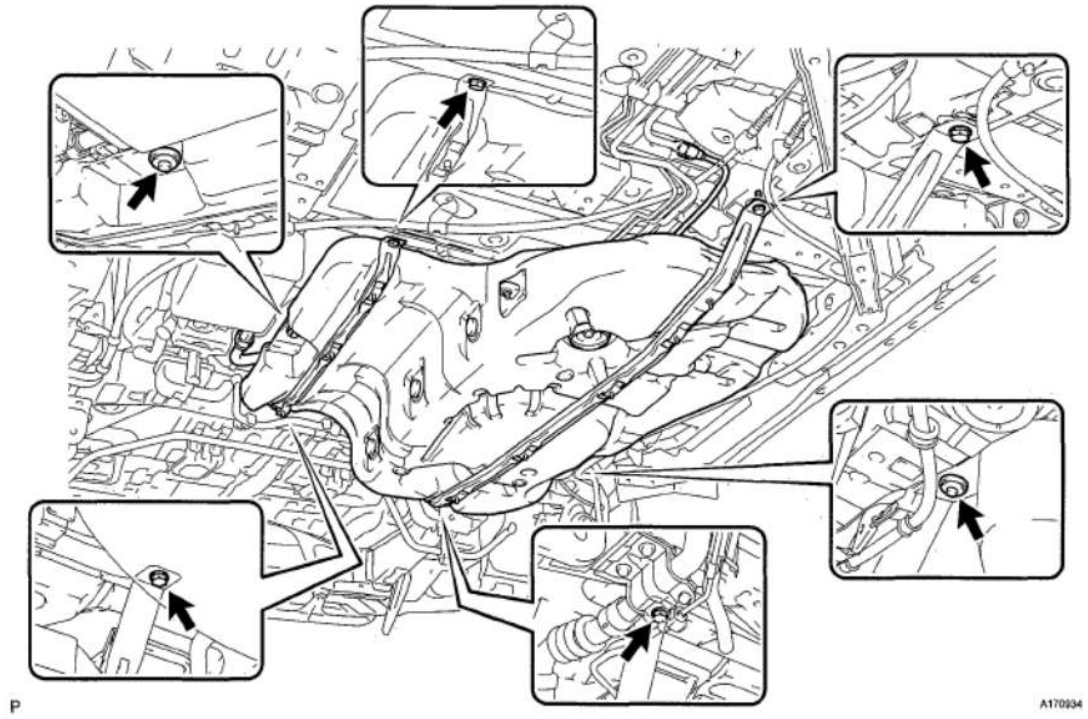


Fig. 136: Locating Fuel Tank Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Torque: 20 N*m (200 kgf*cm, 14 ft.*lbf)

d. Install the 2 fuel tank bands with the 4 bolts.

Torque: 39 N*m (400 kgf*cm, 29 ft.*lbf)

e. Align the matchmarks and install the fuel tank to filler pipe hose to the fuel tank.
f. Install the hose clamp within the range shown in the illustration.

HINT:

- A = 45°
- B = 120°

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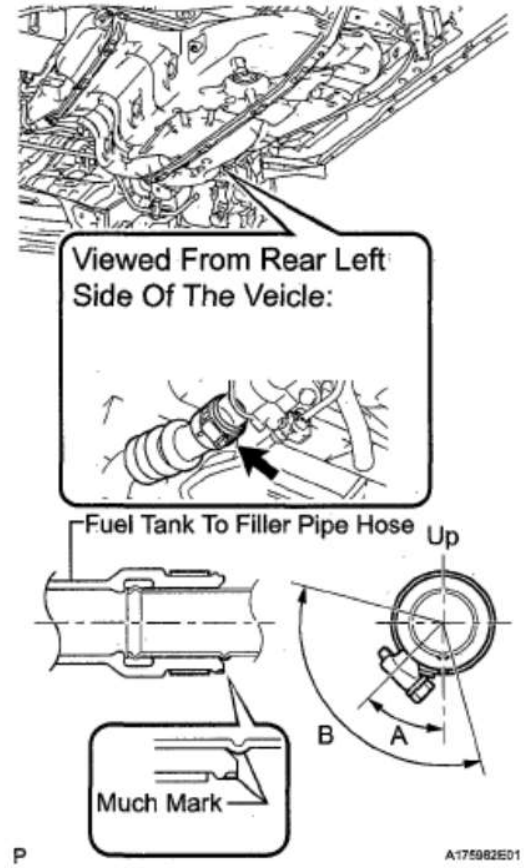


Fig. 137: Identifying Hose Clamp Direction
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

g. Connect the fuel tank vent hose.
   1. Align the quick connector with the pipe, then push in the quick connector until the retainer makes a click sound to connect the charcoal canister fuel hose to the charcoal canister assembly.

NOTE:

- **Check that there are no scratches or foreign objects around the connected part of the quick connector and pipe before this work.**
- **After connecting the charcoal canister fuel hose, check if the quick connector and the pipe are securely connected by pulling on them.**

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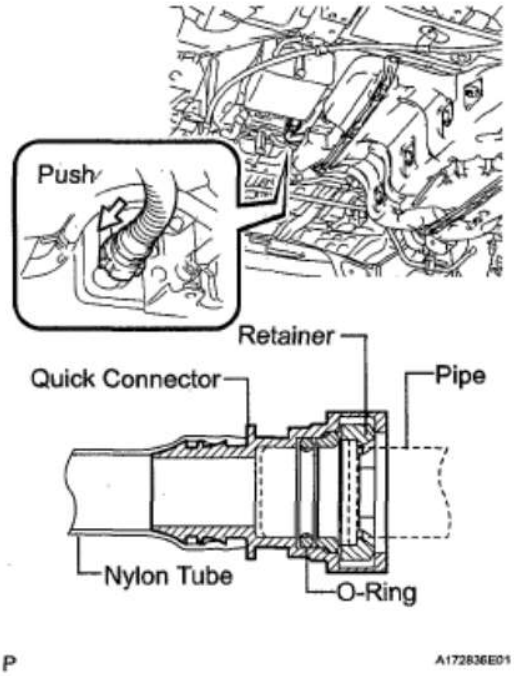


Fig. 138: Connecting Fuel Tank Vent Hose
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

h. Connect the No. 3 fuel tank breather tube.
   1. Push the quick connector to the pipe until it makes a click sound.

NOTE:

- **Check if there is any damage or foreign objects on the connected part.**
- **After connecting, check if the quick connector and the pipe are securely connected by pulling on them.**

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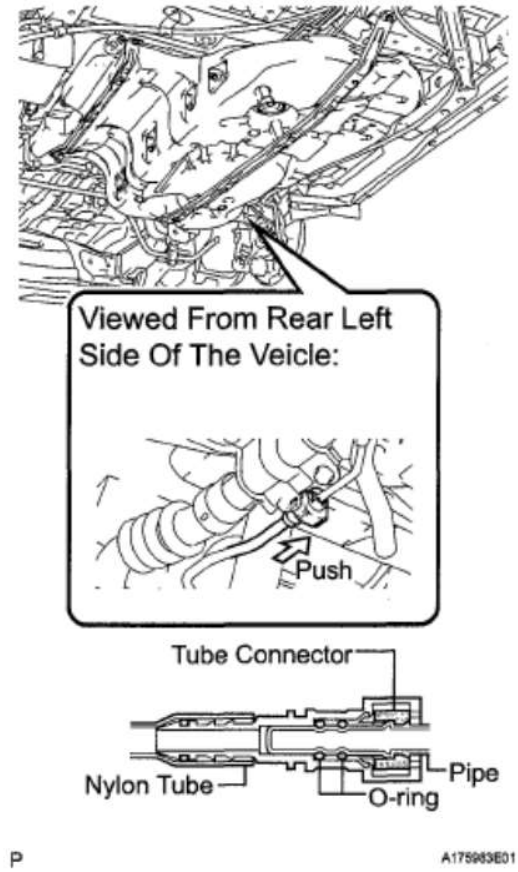


Fig. 139: Connecting No. 3 Fuel Tank Breather Tube
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

i. Connect the fuel pump tube.
   1. Push the quick connector and push in the retainer to lock the claws.

NOTE:

- **Check if there is any damage or foreign objects on the connected part.**
- **After connecting, check if the quick connector and the pipe are securely connected by pulling on them.**

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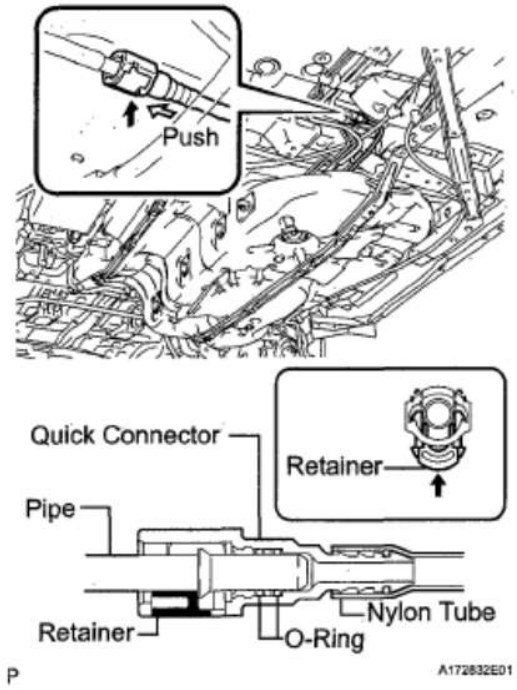


Fig. 140: Connecting Fuel Pump Tube
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

11. **INSTALL NO. 1 FUEL TANK PROTECTOR SUB-ASSEMBLY**
    a. Install the No. 1 fuel tank protector sub-assembly with the 7 nuts.

       Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

    b. Install 3 new clips (A).
12. **TEMPORARILY INSTALL REAR SUSPENSION MEMBER (for 4WD)** (See **INSTALLATION**)
13. **FULLY TIGHTEN REAR SUSPENSION MEMBER (for 4WD)** (See **INSTALLATION**)

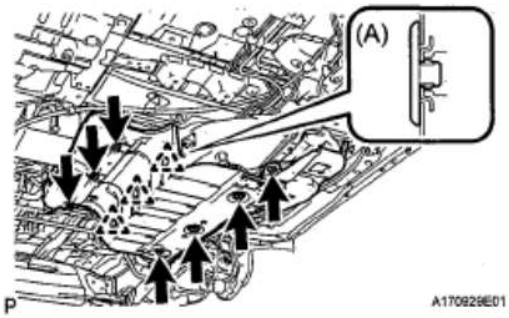


Fig. 141: Locating No. 1 Fuel Tank Protector Sub-Assembly And Nuts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

14. **INSTALL REAR DRIVE SHAFT SNAP RING LH (for 4WD)**

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15. **INSTALL REAR DRIVE SHAFT ASSEMBLY LH (for 4WD)**
16. **INSTALL REAR DRIVE SHAFT SNAP RING RH (for 4WD)** (See **INSTALLATION**)
17. **INSTALL REAR DRIVE SHAFT ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
18. **INSTALL REAR DIFFERENTIAL DRAIN PLUG (for 4WD)** (See **INSTALLATION**)
19. **ADD DIFFERENTIAL OIL (for 4WD)** (See **INSTALLATION**)
20. **INSPECT DIFFERENTIAL OIL (for 4WD)**
21. **INSTALL REAR DIFFERENTIAL FILLER PLUG (for 4WD)** (See **INSTALLATION**)
22. **TEMPORARILY INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
23. **TEMPORARILY INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
24. **TEMPORARILY INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
25. **INSTALL REAR AXLE CARRIER SUB-ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
26. **INSTALL REAR AXLE CARRIER SUB-ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
27. **TEMPORARILY INSTALL REAR STRUT ROD ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
28. **TEMPORARILY INSTALL REAR STRUT ROD ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
29. **INSTALL REAR AXLE HUB AND BEARING ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
30. **INSTALL REAR AXLE HUB AND BEARING ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
31. **INSTALL REAR DISC (for 4WD LH Side)**
32. **INSTALL REAR DISC (for 4WD RH Side)**
33. **INSTALL REAR DISC BRAKE CALIPER ASSEMBLY LH (for 4WD)** (See **REPLACEMENT**)
34. **INSTALL REAR DISC BRAKE CALIPER ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
35. **TEMPORARILY INSTALL REAR AXLE SHAFT NUT LH (for 4WD)** (See **INSTALLATION**)
36. **TEMPORARILY INSTALL REAR AXLE SHAFT NUT RH (for 4WD)** (See **INSTALLATION**)
37. **INSTALL REAR SPEED SENSOR LH (for 4WD)** (See **INSTALLATION**)
38. **INSTALL REAR SPEED SENSOR RH (for 4WD)** (See **INSTALLATION**)
39. **STABILIZE SUSPENSION (for 4WD)** (See **INSTALLATION**)
40. **FULLY TIGHTEN REAR NO. 1 SUSPENSION ARM ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
41. **FULLY TIGHTEN REAR NO. 1 SUSPENSION ARM ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
42. **FULLY TIGHTEN REAR NO. 2 SUSPENSION ARM ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
43. **FULLY TIGHTEN REAR NO. 2 SUSPENSION ARM ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)

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44. **FULLY TIGHTEN REAR STRUT ROD ASSEMBLY LH (for 4WD)** (See **INSTALLATION**)
45. **FULLY TIGHTEN REAR STRUT ROD ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
46. **INSTALL NO. 3 PARKING BRAKE CABLE ASSEMBLY (for 4WD)** (See **INSTALLATION**)
47. **INSTALL NO. 2 PARKING BRAKE CABLE ASSEMBLY (for 4WD)** (See **INSTALLATION**)
48. **SEPARATE REAR DISC BRAKE CALIPER ASSEMBLY LH (for 4WD)** (See **REPLACEMENT**)
49. **SEPARATE REAR DISC BRAKE CALIPER ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
50. **REMOVE REAR DISC (for 4WD LH Side)**
51. **REMOVE REAR DISC (for 4WD RH Side)**
52. **INSPECT REAR AXLE HUB BEARING LOOSENESS (for 4WD LH Side)** (See **ON-VEHICLE INSPECTION**)
53. **INSPECT REAR AXLE HUB BEARING LOOSENESS (for 4WD RH Side)** (See **INSTALLATION**)
54. **INSPECT REAR AXLE HUB RUNOUT (for 4WD LH Side)** (See **ON-VEHICLE INSPECTION**)
55. **INSPECT REAR AXLE HUB RUNOUT (for 4WD RH Side)** (See **INSTALLATION**)
56. **INSTALL REAR DISC (for 4WD LH Side)**
57. **INSTALL REAR DISC (for 4WD RH Side)**
58. **INSTALL REAR DISC BRAKE CALIPER ASSEMBLY LH (for 4WD)** (See **REPLACEMENT**)
59. **INSTALL REAR DISC BRAKE CALIPER ASSEMBLY RH (for 4WD)** (See **INSTALLATION**)
60. **INSTALL REAR AXLE SHAFT NUT LH (for 4WD)** (See **INSTALLATION**)
61. **INSTALL REAR AXLE SHAFT NUT RH (for 4WD)** (See **INSTALLATION**)
62. **INSTALL REAR WHEELS (for 4WD)**
63. **INSTALL NO. 3 FRONT FLOOR HEAT INSULATOR** (See **INSTALLATION**)
64. **INSTALL NO. 4 EXHAUST PIPE SUPPORT BRACKET**
    a. Install the No. 4 exhaust pipe support bracket with the 2 bolts.

    Torque: 22 N*m (224 kgf*cm, 16 ft.*lbf)

65. **INSTALL CENTER EXHAUST PIPE ASSEMBLY** (See **INSTALLATION**)
66. **INSTALL TAIL EXHAUST PIPE ASSEMBLY** (See **INSTALLATION**)
67. **TEMPORARILY TIGHTEN PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (for 4WD)** (See **INSTALLATION**)

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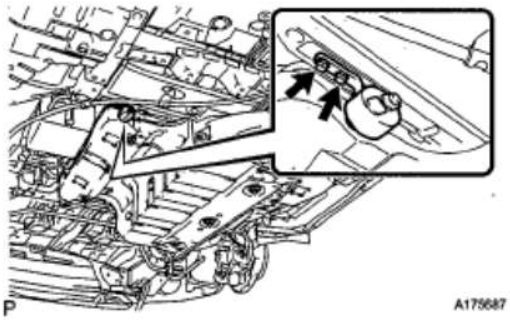


Fig. 142: Locating Bolts And No. 4 Exhaust Pipe Support Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

68. **FULLY TIGHTEN PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (for 4WD)** (See **INSTALLATION**)
69. **INSTALL FRONT CENTER FLOOR COVER** (See **INSTALLATION**)
70. **INSTALL FUEL SUCTION TUBE ASSEMBLY WITH PUMP AND GAUGE** (See **INSTALLATION**)
71. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
72. **INSPECT FOR FUEL LEAK** (See **ON-VEHICLE INSPECTION**)
73. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL** (See **REMOVAL**)
74. **INSTALL REAR FLOOR SERVICE HOLE COVER** (See **FUEL PUMP RESISTOR**)
75. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH** (See **INSTALLATION**)
76. **INSTALL REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH** (See **INSTALLATION**)
77. **INSTALL FRONT DECK SIDE TRIM COVER LH** (See **INSTALLATION**)
78. **INSTALL NO. 2 DECK SIDE TRIM HOOK** (See **INSTALLATION**)
79. **INSTALL ROPE HOOK ASSEMBLY (for LH Side)** (See **INSTALLATION**)
80. **INSTALL REAR DECK TRIM COVER (w/o Remote Folding Function)** (See **INSTALLATION**)
81. **INSTALL RECLINING REMOTE CONTROL LEVER BEZEL LH (w/ Remote Folding Function)** (See **INSTALLATION**)
82. **INSTALL REAR POWER OUTLET SOCKET COVER** (See **INSTALLATION**)
83. **INSTALL REAR POWER POINT SOCKET ASSEMBLY** (See **INSTALLATION**)
84. **INSTALL REAR COMBINATION LIGHT SERVICE COVER LH** (See **INSTALLATION**)
85. **INSTALL SIDE TRIM COVER LH (w/o Rear Seat Entertainment System)** (See **INSTALLATION**)
86. **INSTALL POWER OUTLET SOCKET BEZEL (w/ Rear Seat Entertainment System)** (See **INSTALLATION**)
87. **INSTALL DECK SIDE TRIM COVER LH** (See **INSTALLATION**)
88. **INSTALL DECK SIDE TRIM COVER LH** (See **INSTALLATION**)
89. **INSTALL REAR FLOOR FINISH PLATE** (See **INSTALLATION**)
90. **INSTALL REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
91. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH** (See **INSTALLATION**)

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92. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
93. **INSTALL REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
94. **INSTALL REAR DECK FLOOR BOX (w/o Rear No. 2 Seat)** (See **INSTALLATION**)
95. **INSTALL DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat)** (See **INSTALLATION**)
96. **INSTALL REAR MAT** (See **INSTALLATION**)
97. **INSTALL DECK FLOOR BOARD ASSEMBLY** (See **INSTALLATION**)
98. **INSTALL DECK SIDE TRIM BOX LH** (See **INSTALLATION**)
99. **INSTALL REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
100. **INSTALL DECK SIDE TRIM BOX RH** (See **INSTALLATION**)
101. **INSTALL JACK CARRIER ASSEMBLY** (See **INSTALLATION**)
102. **INSTALL JACK ASSEMBLY** (See **INSTALLATION**)
103. **INSTALL JACK CARRIER CUSHION** (See **INSTALLATION**)
104. **INSTALL JACK CARRIER SUPPORT**
105. **INSTALL REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
106. **INSTALL REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat)** (See **INSTALLATION**)
107. **INSTALL TONNEAU COVER ASSEMBLY**
108. **INSTALL NO. 2 DECK BOARD SUB-ASSEMBLY** (See **INSTALLATION**)
109. **INSTALL NO. 3 DECK BOARD SUB-ASSEMBLY** (See **INSTALLATION**)
110. **INSTALL DECK BOARD ASSEMBLY** (See **INSTALLATION**)
111. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH** (See **INSTALLATION**)
112. **INSTALL REAR DOOR SCUFF PLATE LH** (See **INSTALLATION**)
113. **INSTALL REAR NO. 1 SEAT ASSEMBLY RH** (See **INSTALLATION**)
114. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **INSTALLATION**)
115. **INSPECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (for RH Side)** (See **INSTALLATION**)
116. **INSTALL REAR SEAT LEG SIDE COVER RH** (See **INSTALLATION**)
117. **INSTALL REAR INNER TRACK BRACKET COVER RH** (See **INSTALLATION**)
118. **INSTALL REAR OUTER TRACK BRACKET COVER RH** (See **INSTALLATION**)
119. **INSTALL SEAT TRACK BRACKET COVER RH** (See **INSTALLATION**)
120. **INSTALL REAR SEAT HEADREST ASSEMBLY (for RH Side)**
121. **INSTALL REAR NO. 1 SEAT ASSEMBLY LH** (See **INSTALLATION**)
122. **INSTALL REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **INSTALLATION**)
123. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK (for LH Side)** (See **INSTALLATION**)
124. **INSTALL REAR SEAT LEG SIDE COVER LH** (See **INSTALLATION**)
125. **INSTALL REAR INNER SEAT TRACK BRACKET COVER LH** (See **INSTALLATION**)

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126. **INSTALL REAR OUTER TRACK BRACKET COVER LH** (See **INSTALLATION**)
127. **INSTALL SEAT TRACK BRACKET COVER LH** (See **INSTALLATION**)
128. **INSTALL REAR SEAT HEADREST ASSEMBLY (for LH Side)**
129. **INSTALL REAR CENTER SEAT ASSEMBLY**
130. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL** (See **INSTALLATION**)
131. **INSPECT SRS WARNING LIGHT** (See **INSTALLATION**)
132. **INSPECT EXHAUST GAS LEAK** (See **INSTALLATION**)
133. **INSPECT AND ADJUST TRANSFER OIL (for 4WD)** (See **TRANSFER OIL**)
134. **INSPECT REAR WHEEL ALIGNMENT (for 4WD)** (See **INSTALLATION**)
135. **CHECK FOR SPEED SENSOR SIGNAL (for 4WD)** (See **INSTALLATION**)

FUEL SENDER GAUGE ASSEMBLY

COMPONENTS

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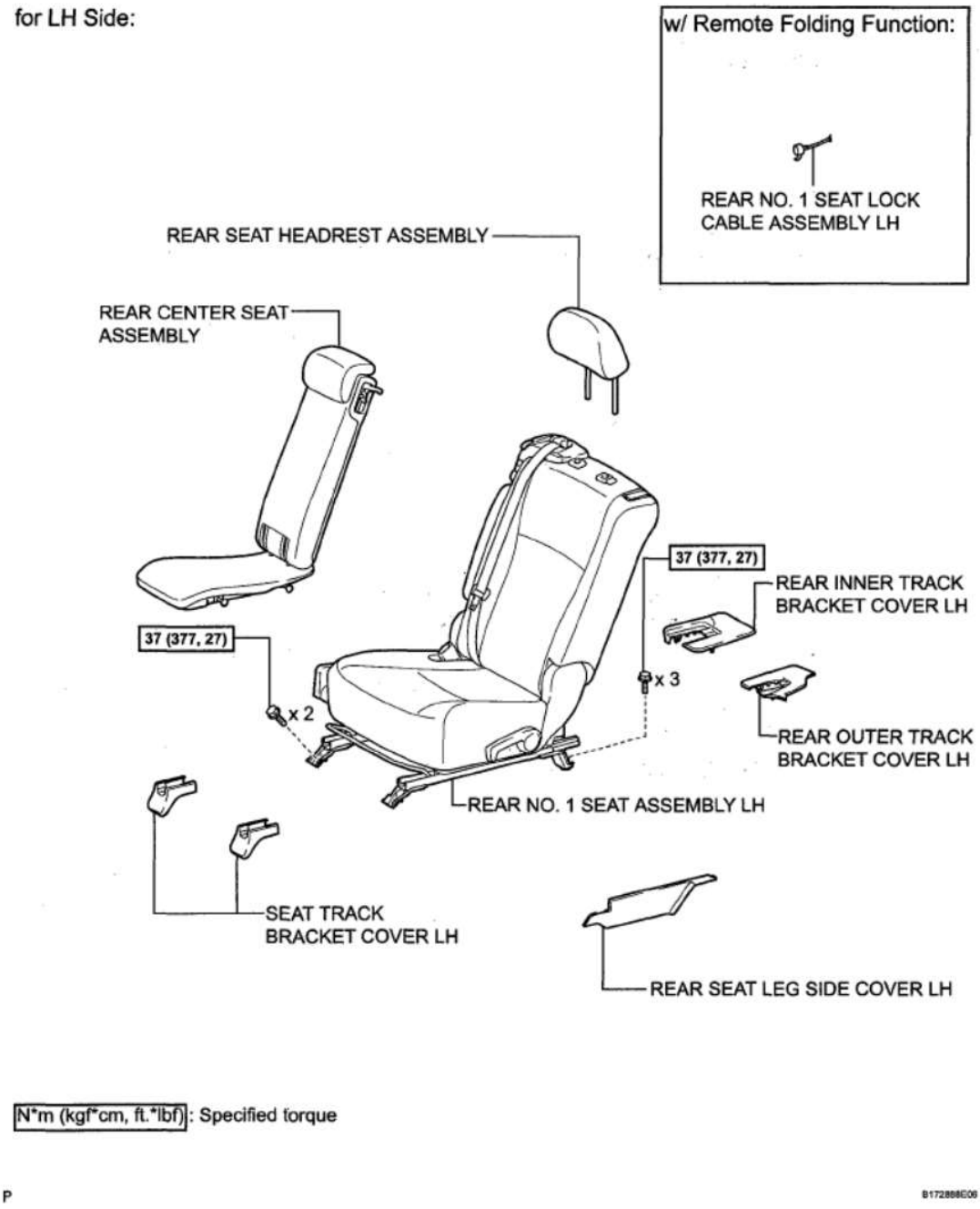


Fig. 143: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (1 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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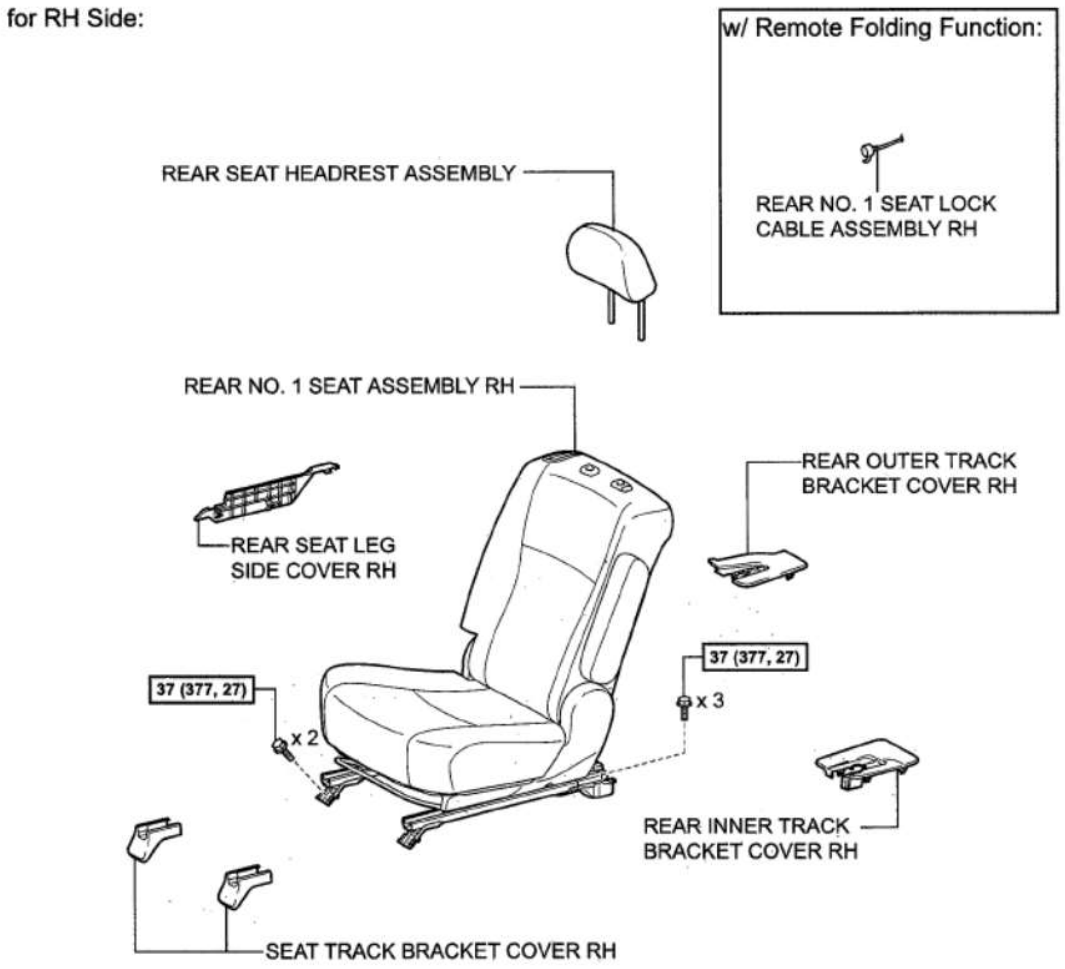


Fig. 144: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (2 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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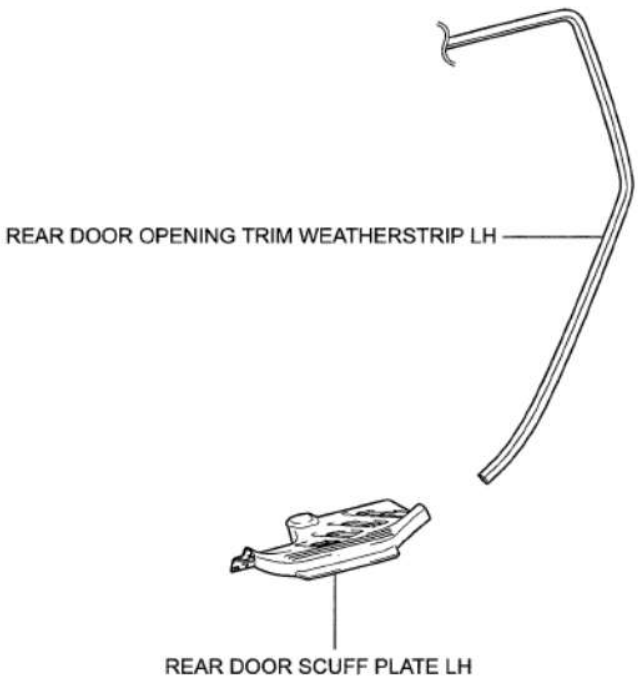


Fig. 145: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (3 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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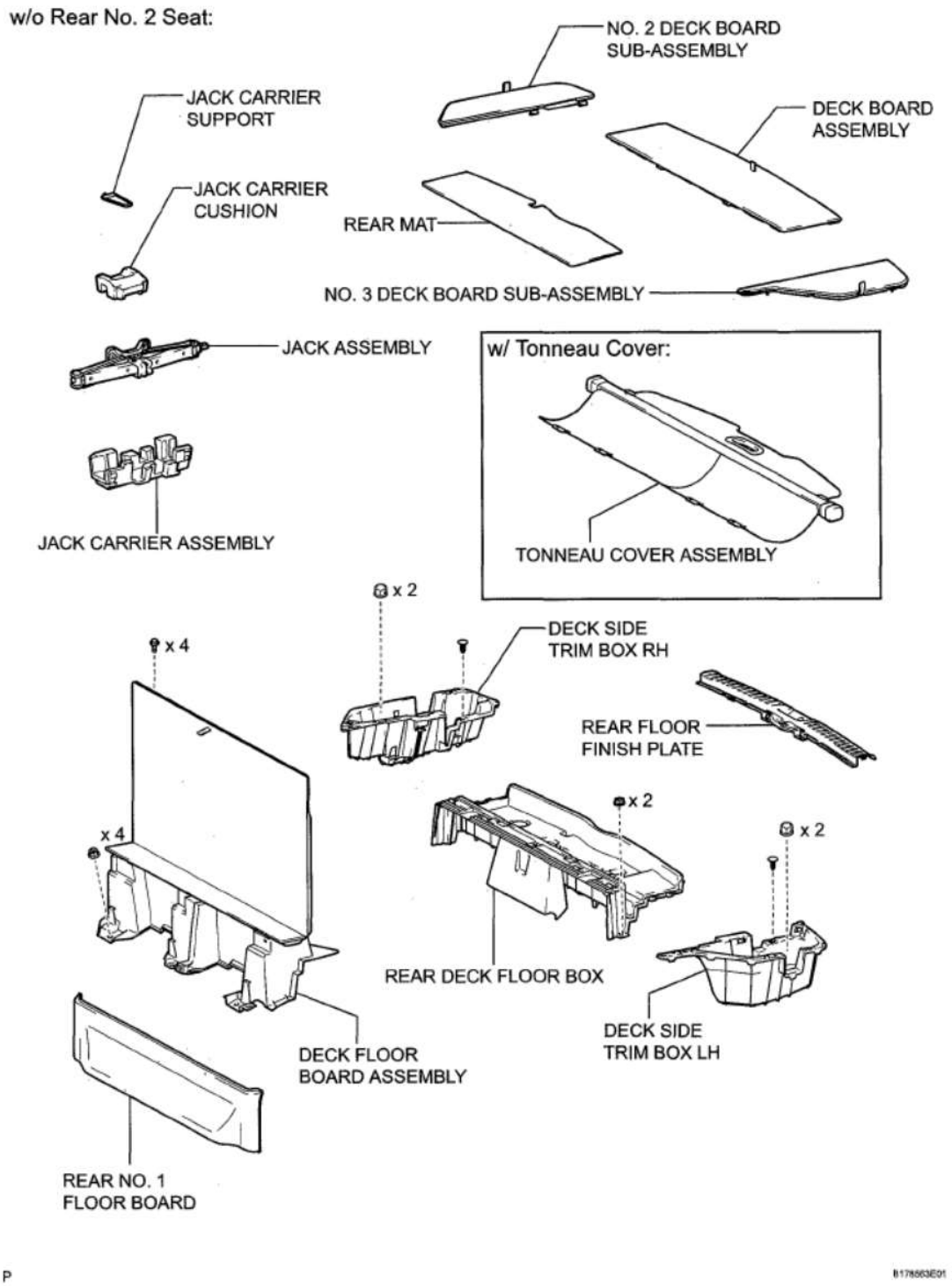


Fig. 146: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (4 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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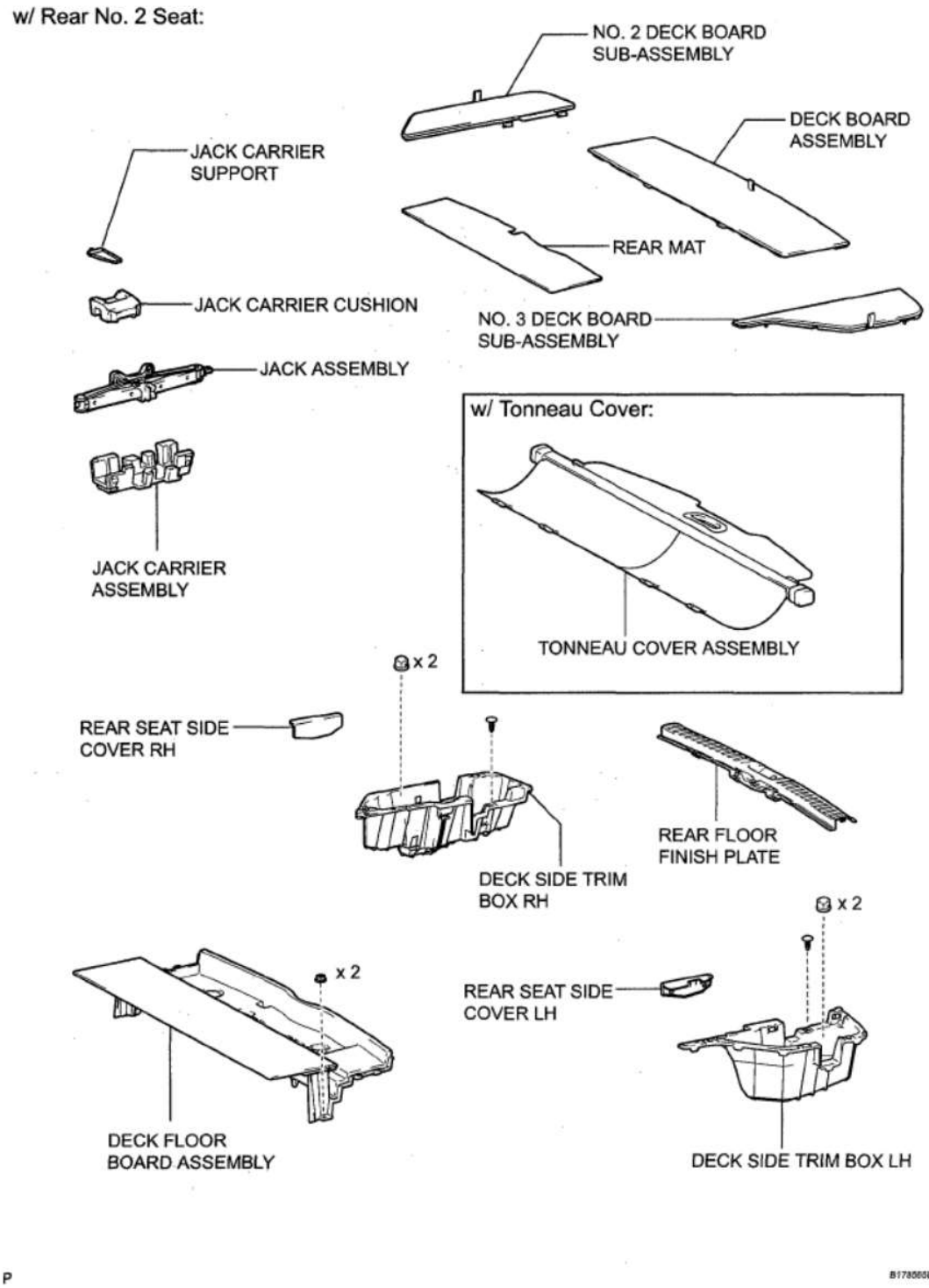


Fig. 147: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (5 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

w/ Rear No. 2 Seat:

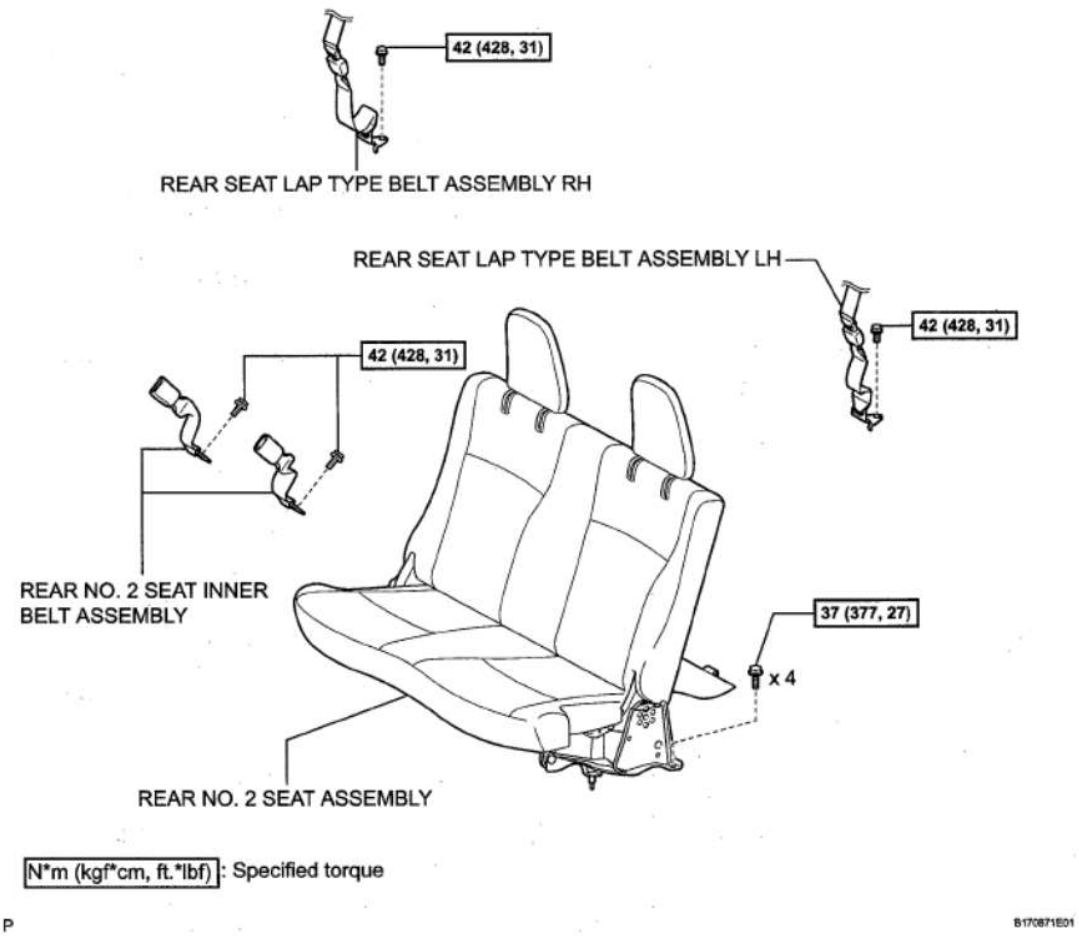


Fig. 148: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (6 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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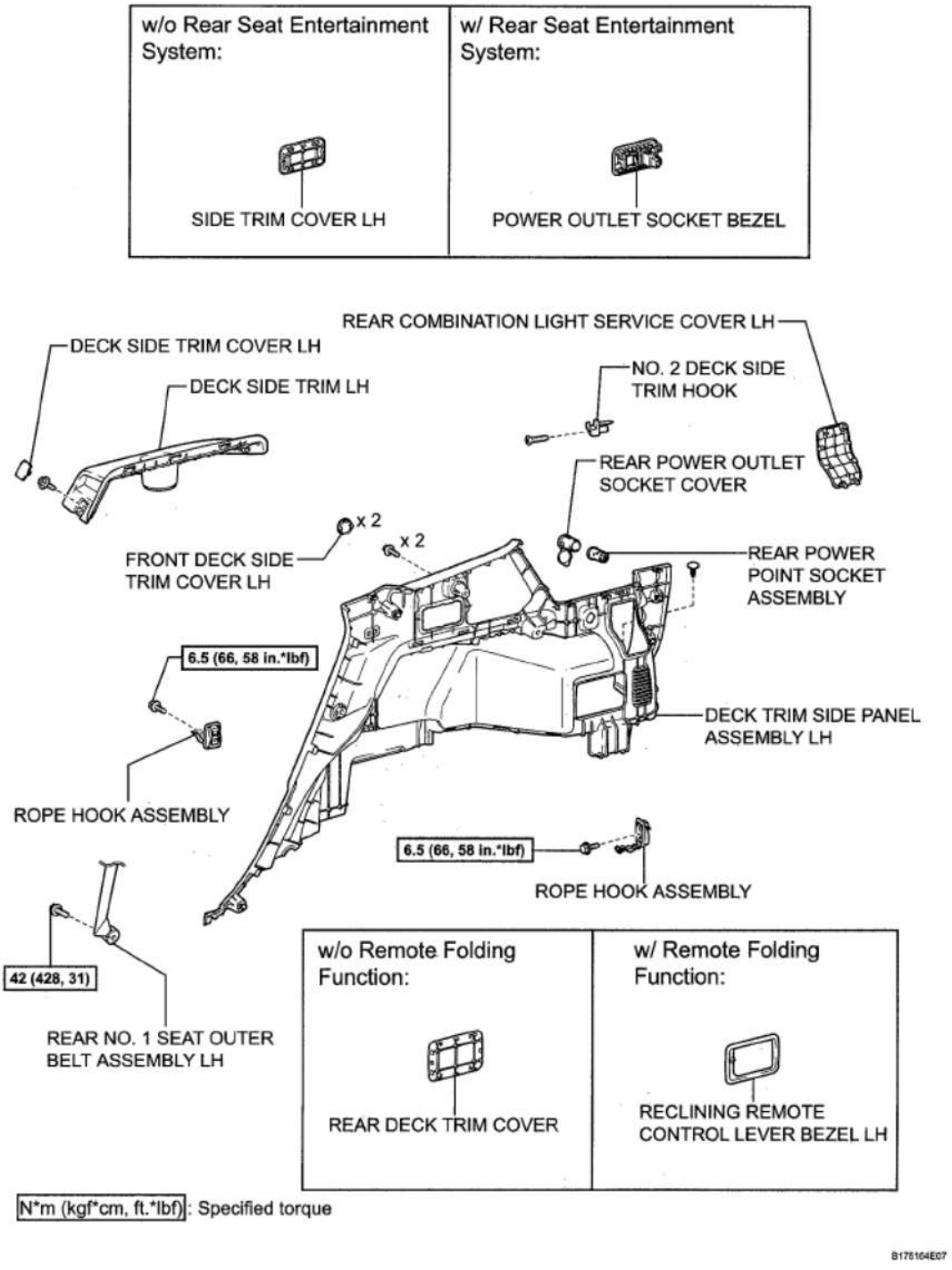


Fig. 149: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (7 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

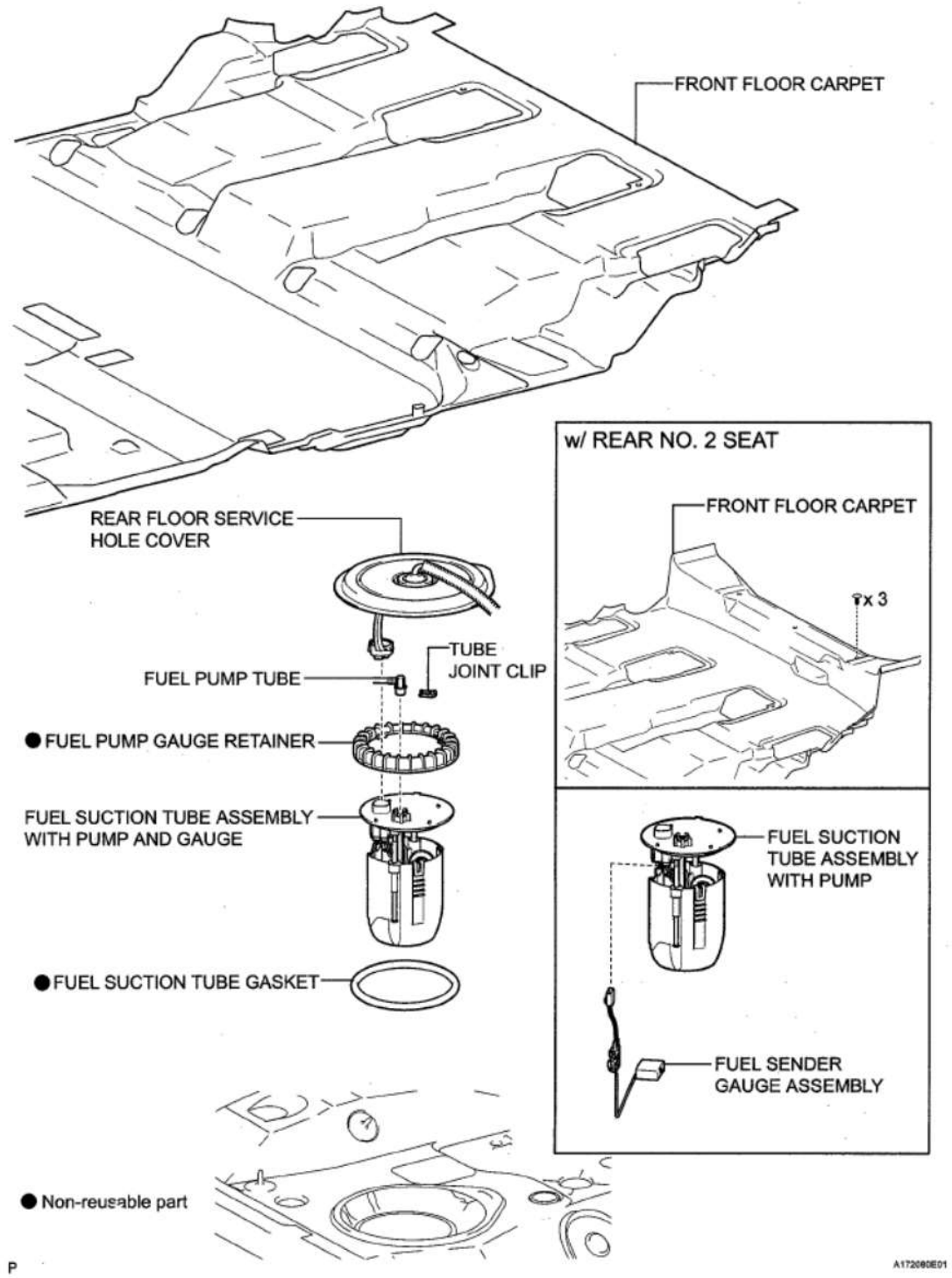


Fig. 150: Identifying Fuel Sender Gauge Assembly Components And Torque Specifications (8 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

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1. **DISCHARGE FUEL SYSTEM PRESSURE** (See **REMOVAL**)
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL** (See **REMOVAL**)
3. **REMOVE REAR CENTER SEAT ASSEMBLY**
4. **REMOVE REAR SEAT HEADREST ASSEMBLY (for LH Side)**
5. **REMOVE SEAT TRACK BRACKET COVER LH** (See **REMOVAL**)
6. **REMOVE REAR OUTER TRACK BRACKET COVER LH** (See **REMOVAL**)
7. **REMOVE REAR INNER TRACK BRACKET COVER LH** (See **REMOVAL**)
8. **REMOVE REAR SEAT LEG SIDE COVER LH** (See **REMOVAL**)
9. **DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
10. **REMOVE REAR NO. 1 SEAT ASSEMBLY LH** (See **DISASSEMBLY**)
11. **REMOVE REAR SEAT HEADREST ASSEMBLY (for RH Side)**
12. **REMOVE SEAT TRACK BRACKET COVER RH** (See **REMOVAL**)
13. **REMOVE REAR OUTER TRACK BRACKET COVER RH** (See **REMOVAL**)
14. **REMOVE REAR INNER TRACK BRACKET COVER RH** (See **REMOVAL**)
15. **REMOVE REAR SEAT LEG SIDE COVER RH** (See **REMOVAL**)
16. **REMOVE REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
17. **REMOVE REAR NO. 1 SEAT ASSEMBLY RH** (See **DISASSEMBLY**)
18. **REMOVE REAR DOOR SCUFF PLATE LH** (See **REMOVAL**)
19. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH** (See **REMOVAL**)
20. **REMOVE DECK BOARD ASSEMBLY** (See **REMOVAL**)
21. **REMOVE NO. 3 DECK BOARD SUB-ASSEMBLY** (See **REMOVAL**)
22. **REMOVE NO. 2 DECK BOARD SUB-ASSEMBLY** (See **REMOVAL**)
23. **REMOVE TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)** (See **REMOVAL**)
24. **REMOVE REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat)** (See **REMOVAL**)
25. **REMOVE REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
26. **REMOVE DECK SIDE TRIM BOX LH** (See **REMOVAL**)
27. **REMOVE REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
28. **REMOVE JACK CARRIER SUPPORT**
29. **REMOVE JACK CARRIER CUSHION** (See **REMOVAL**)
30. **REMOVE JACK ASSEMBLY** (See **REMOVAL**)
31. **REMOVE JACK CARRIER ASSEMBLY** (See **REMOVAL**)
32. **REMOVE DECK SIDE TRIM BOX RH** (See **REMOVAL**)
33. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat)** (See **REMOVAL**)
34. **REMOVE REAR MAT** (See **REMOVAL**)
35. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/ Rear No. 2 Seat)** (See **REMOVAL**)
36. **REMOVE REAR DECK FLOOR BOX (w/o Rear No. 2 Seat)** (See **REMOVAL**)

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37. **REMOVE REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
38. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
39. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat)** (See **REMOVAL**)
40. **REMOVE REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)** (See **DISASSEMBLY**)
41. **REMOVE REAR FLOOR FINISH PLATE** (See **REMOVAL**)
42. **REMOVE DECK SIDE TRIM COVER LH** (See **REMOVAL**)
43. **REMOVE DECK SIDE TRIM COVER LH** (See **REMOVAL**)
44. **REMOVE SIDE TRIM COVER LH (w/o Rear Seat Entertainment System)** (See **REMOVAL**)
45. **REMOVE POWER OUTLET SOCKET BEZEL (w/ Rear Seat Entertainment System)** (See **REMOVAL**)
46. **REMOVE REAR COMBINATION LIGHT SERVICE COVER LH** (See **REMOVAL**)
47. **REMOVE REAR POWER POINT SOCKET ASSEMBLY** (See **REAR POWER OUTLET SOCKET**)
48. **REMOVE REAR POWER OUTLET SOCKET COVER** (See **INSTALLATION**)
49. **REMOVE REAR DECK TRIM COVER (w/o Remote Folding Function)** (See **REMOVAL**)
50. **REMOVE RECLINING REMOTE CONTROL LEVER BEZEL LH (w/ Remote Folding Function)** (See **REMOVAL**)
51. **REMOVE ROPE HOOK ASSEMBLY (for LH Side)** (See **REMOVAL**)
52. **REMOVE NO. 2 DECK SIDE TRIM HOOK** (See **REMOVAL**)
53. **REMOVE FRONT DECK SIDE TRIM COVER LH** (See **REMOVAL**)
54. **DISCONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH** (See **REMOVAL**)
55. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH** (See **REMOVAL**)
56. **REMOVE REAR FLOOR SERVICE HOLE COVER** (See **DISASSEMBLY**)
57. **REMOVE FUEL SUCTION TUBE ASSEMBLY WITH PUMP AND GAUGE** (See **DISASSEMBLY**)
58. **REMOVE FUEL SENDER GAUGE ASSEMBLY**
    a. Disconnect the connector and remove the fuel sender gauge from the fuel suction tube.

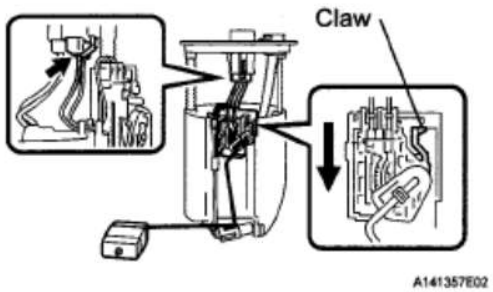


Fig. 151: Locating Fuel Sender Gauge Connector

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **INSPECT FUEL SENDER GAUGE ASSEMBLY**
   a. Remove the fuel sender gauge assembly.
   b. Check the operation of the float moving smoothly between F and E.
   c. Measure the resistance between terminals 2 (FE) and 3 (FS) of the connector according to the value (s) in the table below.

OK

FLOAT LEVEL RESISTANCE

Float Level	Resistance (ohms)
F	3.0 to 5.0
E	109.0 to 111.0

HINT:

If the value is not as specified, replace the fuel sender gauge assembly.

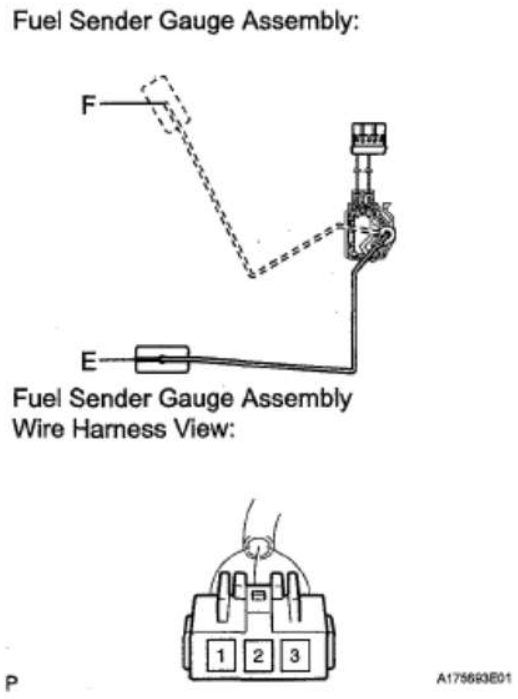


Fig. 152: Identifying Fuel Sender Gauge Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

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1. **INSTALL FUEL SENDER GAUGE ASSEMBLY**
   a. Slide the fuel sender gauge to fit the claw.
2. **INSTALL FUEL SUCTION TUBE ASSEMBLY WITH PUMP AND GAUGE** (See **INSTALLATION**)
3. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
4. **INSPECT FUEL LEAK** (See **ON-VEHICLE INSPECTION**)

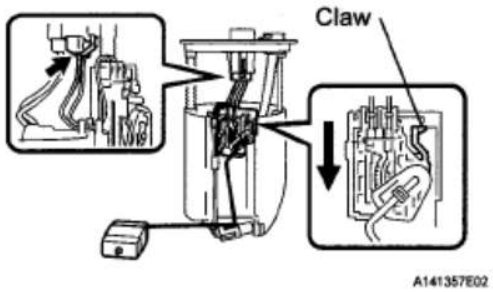


Fig. 153: Locating Fuel Sender Gauge Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL** (See **REMOVAL**)
6. **INSTALL REAR FLOOR SERVICE HOLE COVER** (See **FUEL PUMP RESISTOR**)
7. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH** (See **INSTALLATION**)
8. **CONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH** (See **INSTALLATION**)
9. **INSTALL FRONT DECK SIDE TRIM COVER LH** (See **INSTALLATION**)
10. **INSTALL NO. 2 DECK SIDE TRIM HOOK** (See **INSTALLATION**)
11. **INSTALL ROPE HOOK ASSEMBLY (for LH Side)** (See **INSTALLATION**)
12. **INSTALL REAR DECK TRIM COVER (w/o Remote Folding Function)** (See **INSTALLATION**)
13. **INSTALL RECLINING REMOTE CONTROL LEVER BEZEL LH (w/ Remote Folding Function)** (See **INSTALLATION**)
14. **INSTALL REAR POWER OUTLET SOCKET COVER** (See **INSTALLATION**)
15. **INSTALL REAR POWER POINT SOCKET ASSEMBLY** (See **INSTALLATION**)
16. **INSTALL REAR COMBINATION LIGHT SERVICE COVER LH** (See **INSTALLATION**)
17. **INSTALL SIDE TRIM COVER LH (w/o Rear Seat Entertainment System)** (See **INSTALLATION**)
18. **INSTALL POWER OUTLET SOCKET BEZEL (w/ Rear Seat Entertainment System)** (See **INSTALLATION**)
19. **INSTALL DECK SIDE TRIM LH** (See **INSTALLATION**)
20. **INSTALL DECK SIDE TRIM COVER LH** (See **INSTALLATION**)
21. **INSTALL REAR FLOOR FINISH PLATE** (See **INSTALLATION**)
22. **INSTALL REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)** (See **INSTALLATION**)
23. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH (w/ Rear No. 2 Seat)** (See

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INSTALLATION)

24. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat)** (See INSTALLATION)
25. **INSTALL REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat)** (See INSTALLATION)
26. **INSTALL REAR DECK FLOOR BOX (w/o Rear No. 2 Seat)** (See INSTALLATION)
27. **INSTALL DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat)** (See INSTALLATION)
28. **INSTALL REAR MAT** (See INSTALLATION)
29. **INSTALL DECK FLOOR BOARD ASSEMBLY (w/ Rear No. 2 Seat)** (See INSTALLATION)
30. **INSTALL DECK SIDE TRIM BOX LH** (See INSTALLATION)
31. **INSTALL REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat)** (See INSTALLATION)
32. **INSTALL DECK SIDE TRIM BOX RH** (See INSTALLATION)
33. **INSTALL JACK CARRIER ASSEMBLY** (See INSTALLATION)
34. **INSTALL JACK ASSEMBLY** (See INSTALLATION)
35. **INSTALL JACK CARRIER CUSHION** (See INSTALLATION)
36. **INSTALL JACK CARRIER SUPPORT**
37. **INSTALL REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat)** (See INSTALLATION)
38. **INSTALL REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat)** (See INSTALLATION)
39. **INSTALL TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)**
40. **INSTALL NO. 2 DECK BOARD SUB-ASSEMBLY** (See INSTALLATION)
41. **INSTALL NO. 3 DECK BOARD SUB-ASSEMBLY** (See INSTALLATION)
42. **INSTALL DECK BOARD ASSEMBLY** (See INSTALLATION)
43. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH** (See INSTALLATION)
44. **INSTALL REAR DOOR SCUFF PLATE LH** (See INSTALLATION)
45. **INSTALL REAR NO. 1 SEAT ASSEMBLY RH** (See INSTALLATION)
46. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See INSTALLATION)
47. **INSPECT REAR NO. 1 SEAT ADJUSTER ASSEMBLY (for RH Side)** (See INSTALLATION)
48. **INSTALL REAR SEAT LEG SIDE COVER RH** (See INSTALLATION)
49. **INSTALL REAR INNER TRACK BRACKET COVER RH** (See INSTALLATION)
50. **INSTALL REAR OUTER TRACK BRACKET COVER RH** (See INSTALLATION)
51. **INSTALL SEAT TRACK BRACKET COVER RH** (See INSTALLATION)
52. **INSTALL REAR SEAT HEADREST ASSEMBLY (for RH Side)**
53. **INSTALL REAR NO. 1 SEAT ASSEMBLY LH** (See INSTALLATION)
54. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See INSTALLATION)
55. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK (for LH Side)** (See INSTALLATION)
56. **INSTALL REAR SEAT LEG SIDE COVER LH** (See INSTALLATION)
57. **INSTALL REAR INNER SEAT TRACK BRACKET COVER LH** (See INSTALLATION)

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58. **INSTALL REAR OUTER TRACK BRACKET COVER LH** (See **INSTALLATION**)
59. **INSTALL SEAT TRACK BRACKET COVER LH** (See **INSTALLATION**)
60. **INSTALL REAR SEAT HEADREST ASSEMBLY (for LH Side)**
61. **INSTALL REAR CENTER SEAT ASSEMBLY**
62. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL** (See **INSTALLATION**)
63. **INSPECT SRS WARNING LIGHT** (See **INSTALLATION**)

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