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Component Search:

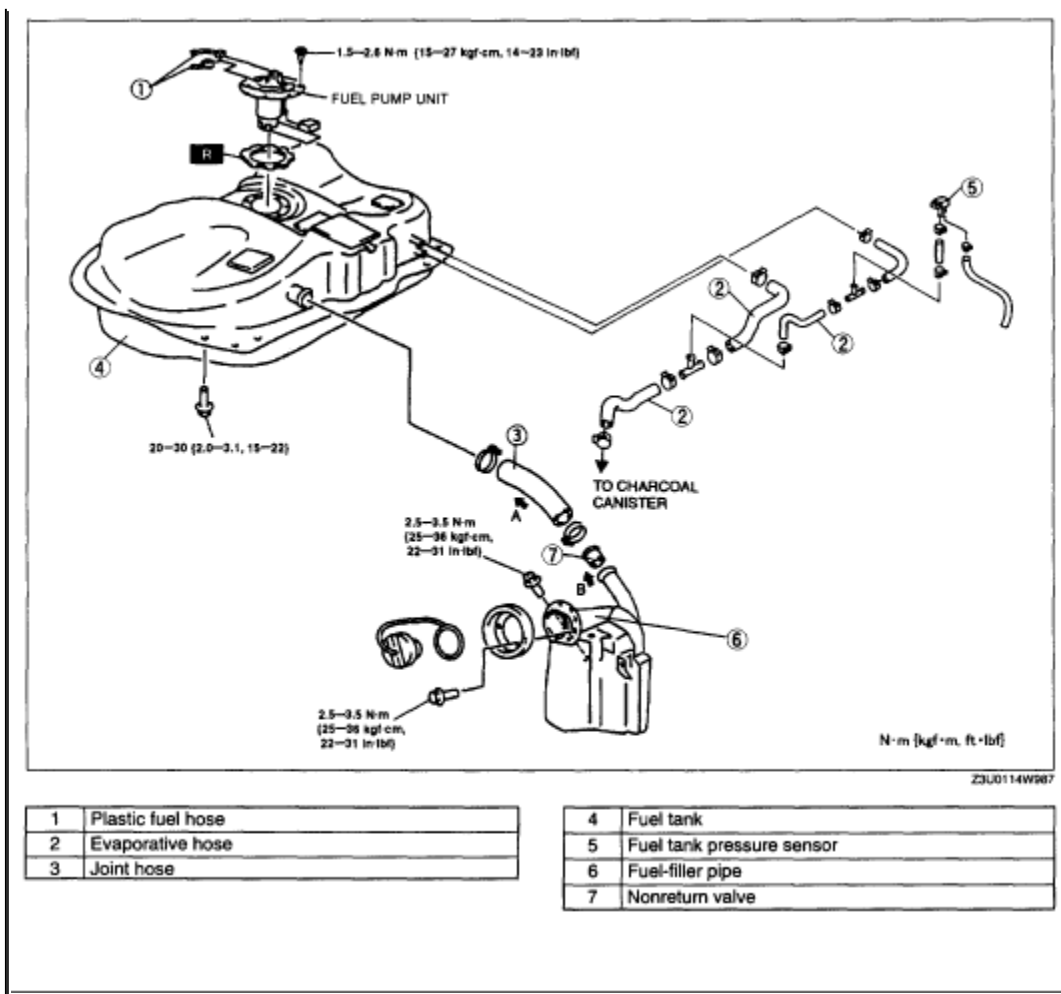
  [Conversion Calculator](#)**2003 Mazda Protege L4-2.0L DOHC**[Vehicle Level](#) → [Powertrain Management](#) → [Fuel Delivery and Air Induction](#) → [Fuel Tank](#) → [Service and Repair](#) → [Fuel Tank Removal and Installation](#) ←**Fuel Tank Removal and Installation****WARNING:**

- **Repairing a fuel tank that has not been properly steam cleaned can be dangerous. Explosion or fire may cause death or serious injury. Always properly steam clean a fuel tank before repairing it.**
- **Fuel line spills and leakage are dangerous. Fuel can ignite and cause serious injuries or death and damage. Fuel can also irritate skin and eyes. To prevent this, do not damage the sealing surface of the [fuel pump](#) unit when removing or installing.**

CAUTION: Disconnecting/connecting the quick release connector without cleaning it may possibly cause damage to the fuel pipe and quick release connector. Always clean the quick release connector joint area before disconnecting/connecting, and make sure that it is free of foreign material.

1. Level the vehicle.
2. Complete the "BEFORE REPAIR PROCEDURE".
3. Disconnect the negative battery cable.
4. Remove the rear seat cushion.
5. Remove the service hole cover.
6. Remove the [fuel pump](#) unit.
7. Siphon the fuel from the fuel tank.
8. Remove the presilencer.





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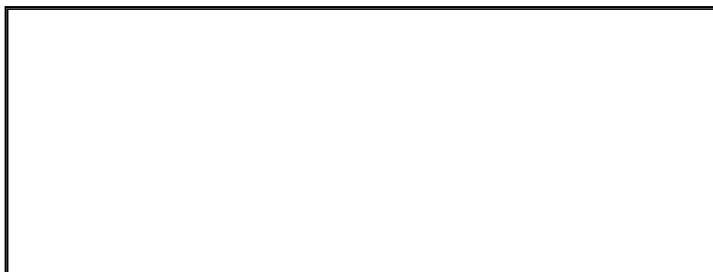
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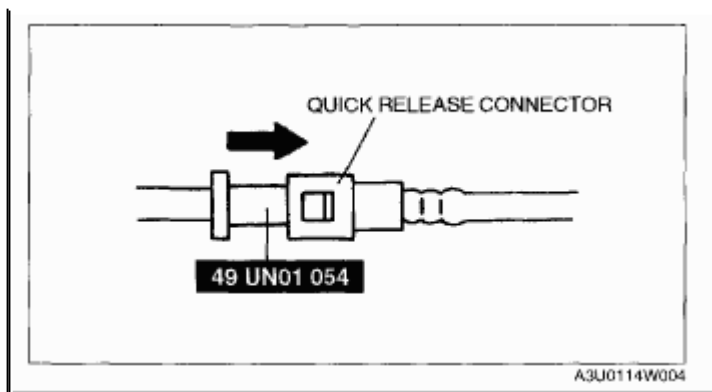
9. Remove in the order indicated in the table.
10. Install in the reverse order of removal.
11. Complete the "AFTER REPAIR PROCEDURE".

Plastic Fuel Hose Removal Note

CAUTION: The retainer must be replaced if removed from the fuel pipe without using the SST. Otherwise, effectiveness of the retainer will be reduced.

1. Inspect that the quick release connector joint area is free of foreign material.
2. Clean as necessary.

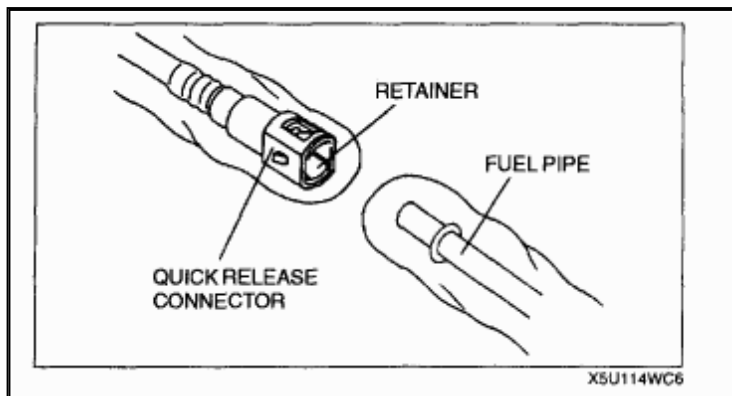




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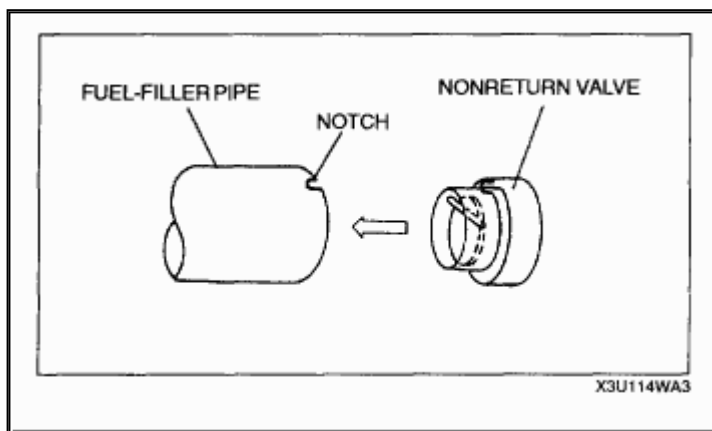
3. Set the SST as shown and push into the quick release connector to disconnect the plastic fuel hose.



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4. Cover the disconnected quick release connector and fuel pipe to prevent them from being scratched or contaminated with foreign material.

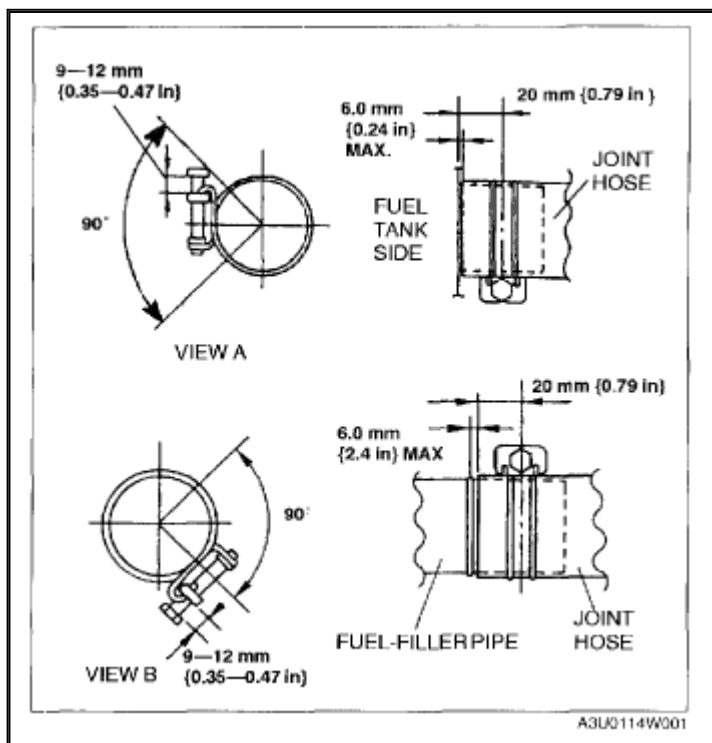


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Nonreturn Valve Installation Note

1. Align the non return valve with the notch in the fuel-filler pipe as shown, then install.



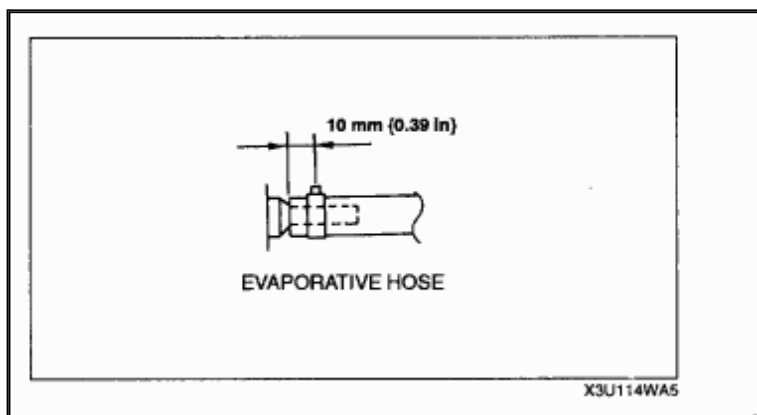
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Joint Hose Installation Note

1. Fit the joint hose onto the respective fittings within the specification, and install clamps as shown.

Specification: **35 - 40 mm {1.4 - 1.5 in}**



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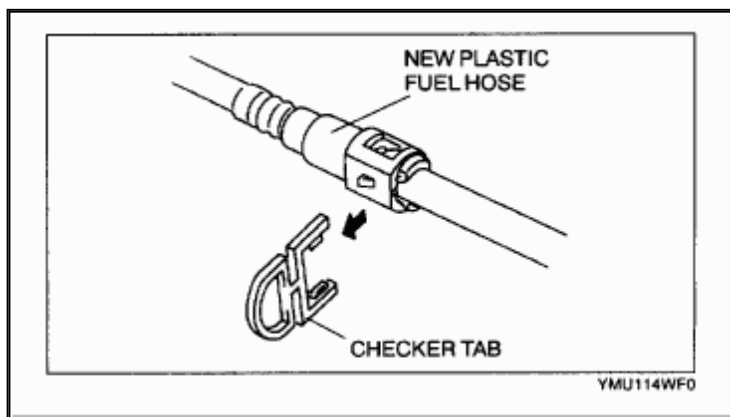
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Evaporative Hose Installation Note

1. Fit evaporative hose onto the respective fittings within the specification, and install clamps as shown.

Specification: **10 mm {0.39 in}**

Plastic Fuel Hose Installation Note

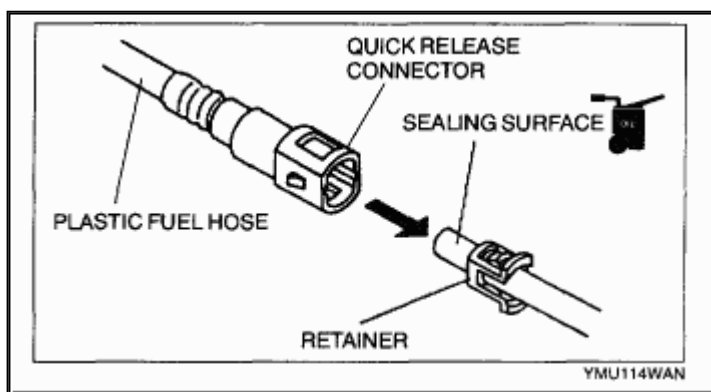


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NOTE: A checker tab is integrated with quick release connector for new plastic fuel hoses. The checker tab will be released from the quick release connector after it is completely engaged with the fuel pipe.

1. When the retainer is not removed, perform the following procedure.
 1. Inspect the [fuel pump](#) unit sealing surface for damage and deformation, and replace as necessary.
 - If the quick release connector O-ring is damaged, replace the plastic fuel hose.
 2. Apply a small amount of clean engine oil to the sealing surface of the [fuel pump](#) unit.



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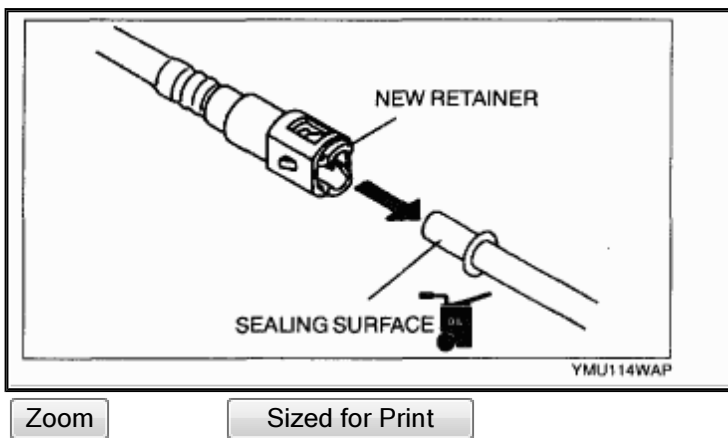
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3. Align the fuel pipe on the [fuel pump](#) unit and quick release connector so that the tabs of the retainer are correctly fitted into the quick release connector. Push the quick release connector straight into the retainer until a click is heard.
4. Lightly pull and push the quick release connector a few times by hand and verify that it can move **2.0 - 3.0 mm {0.08 - 0.11 in}** and it is connected securely.

- If quick release connector does not move at all, verify that O-ring is not damaged and slipped. and reconnect the quick release connector.

2. When the retainer is removed, perform the following procedure.

NOTE: Use the designated genuine retainer only.



1. Inspect the plastic fuel hose and [fuel pump](#) unit sealing surface for damage and deformation, and replace as necessary.
 - If the quick release connector O-ring is damaged or has slipped, replace the plastic fuel hose.
2. Install a new retainer onto the quick release connector. Visually inspect that the tabs of the retainer are securely fitted into the quick release connector.
3. Slightly apply clean engine oil to the sealing surface of the [fuel pump](#) unit.
4. Push the quick release connector straight in to the [fuel pump](#) unit until a click is heard.
5. Lightly pull and push the quick release connector a few times by hand and verify that it can move **2.0 - 3.0 mm {0.08 - 0.11 in}** and it is connected securely.
 - If quick release connector does not move at all, verify that O-ring is not damaged and slipped, and reconnect the quick release connector.

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