FITTING INSTRUCTIONS FOR RYCO INTANK FUEL FILTER Z770
TOYOTA COROLLA ZRE152 & 153 / RUKUS AZE151

Ryco Z770 includes Intank Fuel Filter, large O-ring for fuel tank seal and small O-ring for fuel pump outlet.

Old retainer ring can be used as long as it's in good condition, if damaged it must be replaced.

We recommend using Toyota special tool (SST 09808-14020) or similar to ensure tightening the retainer ring.

This fitting instruction only explains the method used to reinstall fuel filter assembly into fuel tank. You should follow all the precautions as recommended by the vehicle manufacturer.

Prior to reinstallation, disconnect fuel hoses and remove fuel pump. Install fuel pump into new filter and ensure all connections are exactly the same.

For clarity purposes this instruction sheet was created by using an unattached fuel filter tank.

1. Remove old o-ring
   - Clean the o-ring groove
   - Install new o-ring onto the fuel tank.
   - Ensure that the o-ring is properly seated around the groove.

2. Reinstall the fuel pump assembly.
   - Align lugs of the fuel filter housing with the cutout on the fuel tank hole.
   - Ensure the o-ring is seated underneath the filter flange.

- Reinstall the retainer ring on top of the filter, while pushing down on top of the filter.

- Locate the retainer ring thread start mark (the smallest top ring rib) approx. 2 ribs before the start arrow mark on the fuel tank.

- Push firmly down on the retainer ring until a clicking sound is heard.

This will ensure the retainer ring is engaged squarely onto the fuel tank thread.

- Inspect the gap between the fuel retaining ring and the tank.
- The gap shall be even (see Fig 2 - “A” gap).
- If it is not, you will need to redo the previous step.
FITMENT GUIDE FOR Z770

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3. **Arrow Mark on the fuel tank (finish point)**
   - Once the retainer ring is properly located, push down the top of the filter, gently tighten the retainer ring 1/2 turn from start arrow mark on the fuel tank by hand.

   - **Inspect the gap between the retainer ring and the fuel tank.**
   - The gap shall be even (see Fig 3-"A1" gap). If it is not, you will need to re do the step no. 2.

   **Example of incorrect installation:**
   - **Arrow Mark on the fuel tank (finish point)**
   - **Arrow Mark on the fuel tank (start point)**

4. **Arrow Mark on the fuel tank (finish point)**
   - **Run fingers to inspect the gap between the fuel retainer ring and the fuel tank.**
   - This illustration shows uneven gap between "B1" & "B2". If it's uneven you will need to re do the step no. 2.

   **Using special tool, tighten the retainer ring**
   - In total 1 1/4 to 1 1/2 turns from the start arrow mark on the fuel tank.

   When the retainer ring is tightened to 1 1/2 turns, the retainer ring thread start mark will be at the first finish arrow mark on the fuel tank.

   **Inspect the gap between the retainer ring and the fuel tank:**
   - The gap shall be even around 3 mm. If uneven gap occurred, you will need to re do the step no. 2 and onwards, otherwise fuel can leak out even though the retainer ring is very tight.

   **Reinstall all fuel hoses to the filter,**
   - **Start engine, Check for leakage,**
   - **Test drive the car, If no leakage, re install service hole cover and rear seat assembly.**

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