



## **XP Turbo/S & Pro XP Racing Intercooler Core Replacement**

**SKU(s): 102FP0004**

### **INCLUDED PARTS**

(1) Racing Intercooler

### **REQUIRED TOOLS**

T-40 Torx Socket

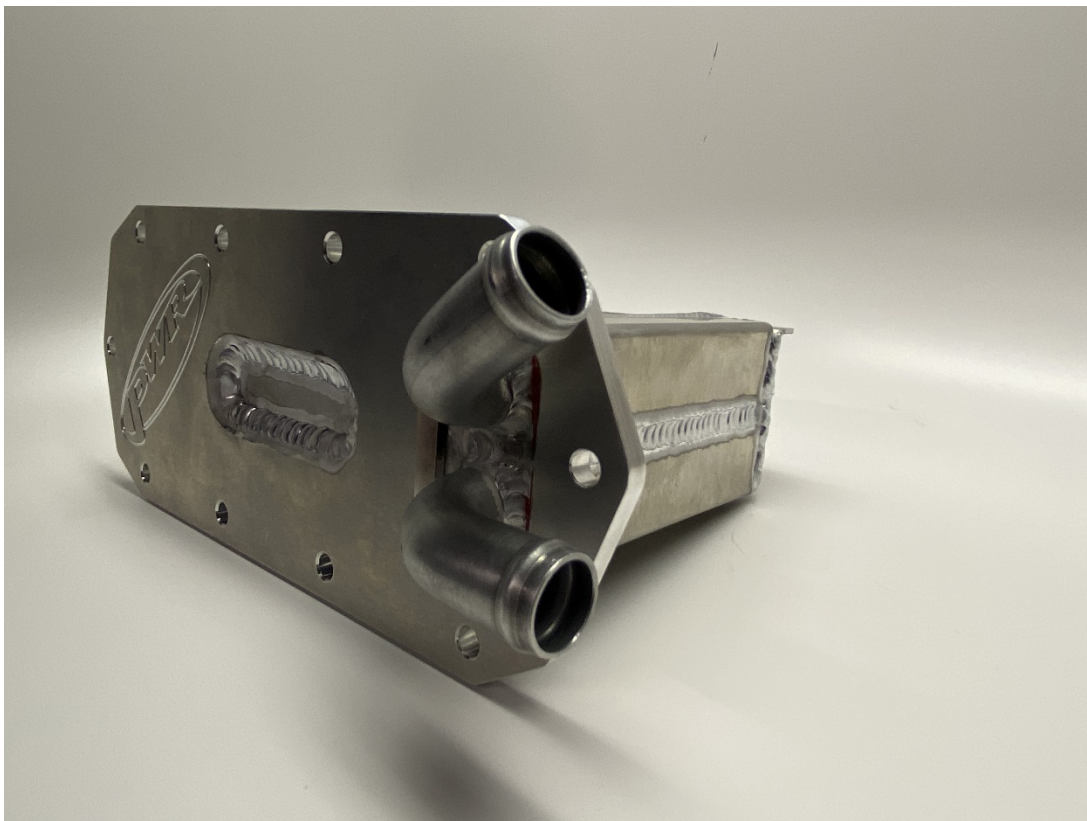
Spring Puller

22mm Open End Wrench

8,10,15mm Socket

(2) Hose Pinch Tools

Flat Blade Screwdriver



**Step 1:** Remove the rear bed with a T-40 Torx

**Step 2:** Remove the rear valance if the vehicle still has OEM exhaust. Then remove exhaust, O2 sensor and heat shield. Circled is the intercooler. (See figure 1).



Figure 1.

**Step 3:** Located on the intercooler are two brackets. Remove all (3) plugs from the brackets using a flat blade screwdriver. **NOTE:** these will be remounted onto the new intercooler so do not break them. One is the first O2 sensor plug, and the other two are feeding to the throttle body.

**Step 4:** Label both coolant lines feeding into the intercooler (top/bottom), pinch both lines off to stop coolant from leaking out, place a catch can underneath the machine and disconnect the lines from the intercooler.

**Step 5:** Remove (2) 10mm bolts and spacers holding the fuel rail in place. (See figure 2).

**Step 6:** Loosen both V-Clamps retaining the intake manifold to the engine, 11mm socket. (See figure 2).

**Step 7:** Remove the charge tube going into the throttle body using a 11mm socket and remove (4) 10mm bolts on the throttle body going to the intake. (See figure 3)

**Step 8:** Remove the top bolt on the transmission bracket, holding the plenum using a 13mm socket. (See figure 4).

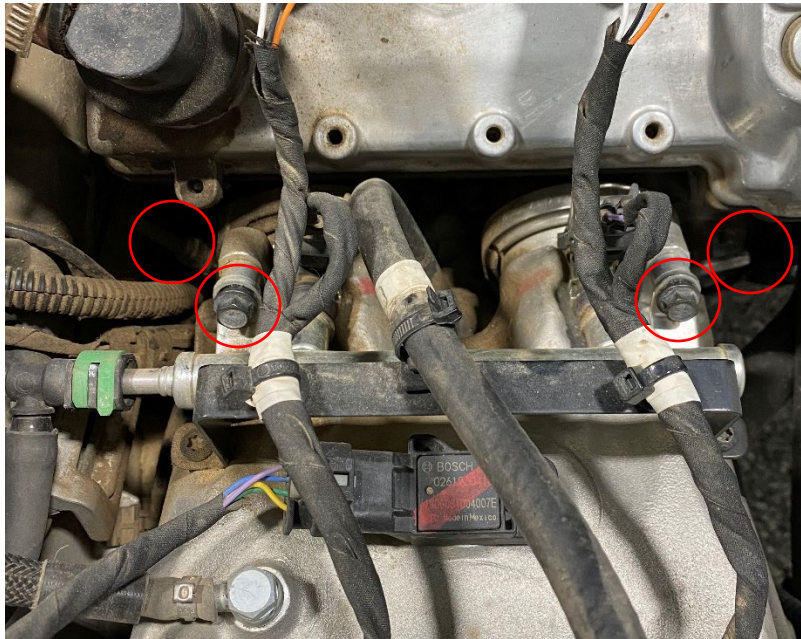


Figure 2



Figure 3

**Step 9:** Remove both intake manifolds from the engine, allowing the plenum and intercooler to rotate.

**Step 10:** Take out (10) 8mm bolts on the intercooler (2) of them will have brackets on them. Remember where they are located. Now the intercooler can be removed, and able to pass the frame.

**Step 11:** Take the gasket off the OEM intercooler and place it on a work bench. Next you will cut the gasket and reinstall just the bottom portion onto the new intercooler. (See figure 5-7).



Figure 5



Figure 4

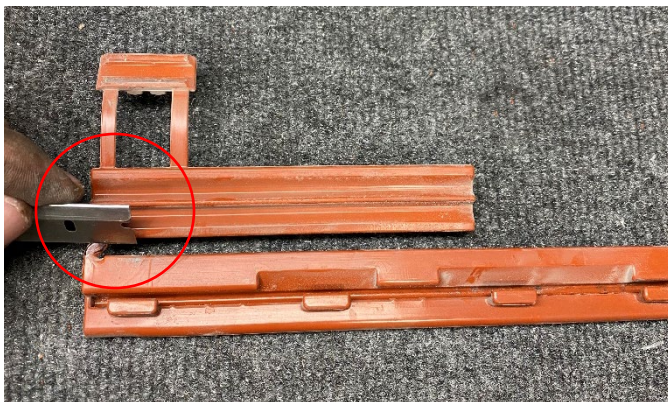


Figure 6



Figure 7

- Step 12:** Reinstall the new intercooler **NOTE:** Be careful not to damage any fins on the radiator. Place both brackets into their original position and fasten all (10) 8mm bolts down to 7 ft lbs. Reconnect the (2) throttle body and (1) O2 sensor back to the correct bracket. (See figure 8).
- Step 13:** Reinstall the plenum to transmission 13mm bolt. Do not fasten down yet.
- Step 14:** Reassemble both V-Clamps onto the intake and engine. Make sure they are seated before you fasten down.
- Step 15:** Reassemble the throttle body to the plenum using (4) 10mm bolts. Reinstall the charge tube at this time using a 11mm socket.
- Step 16:** Reassemble the fuel rail bolts and spacers. Torque to 7ft lbs. You can now fasten the plenum-transmission bolt down.
- Step 17:** Re-connect both top/bottom coolant hoses into their original orientation. Undo clamps.



- Step 18:** Reassemble the rear heat shield and exhaust. Connect the O2 sensor back into the exhaust.
- Step 19:** Top the coolant off and let the engine run for 10min or until coolant level is correct.
- Step 20:** Reassemble the box and rear valance.



## INSTALLATION INSTRUCTIONS

Thank you for choosing Evolution Powersports products. If you require further assistance, please call our Tech Support @ (715) 247-3862

**Note:** This product is exempt from the emission standards and related requirements of 40 C.F.R. § 1051 as provided by 40 C.F.R. § 1051.620, and California law [e.g., vehicle code §§ 27156 and 38391]. This product is sold only for use in connection with EPA certified, purpose-built, nonroad vehicles used solely for closed course, nonroad competition/racing and not used for any recreational purpose or on public highways or right of ways maintained by and open to the public. This product is sold only in connection with machines that do not fall under state and/or federal noise or emission standards/regulations. Purchasers who/that purchase this product represent and warrant that the product is purchased only in connection with EPA -certified, emission-regulations-exempt and noise-regulations-exempt competition/racing vehicles as interpreted under applicable state and/or federal law. Questions: Call Evolution Powersports at (715) 247-3862.

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