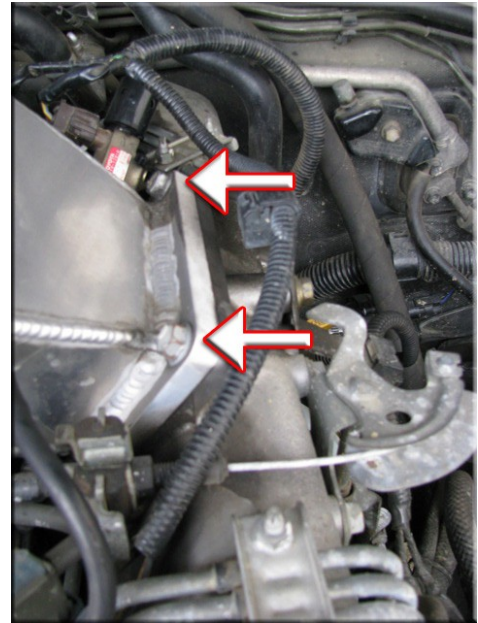


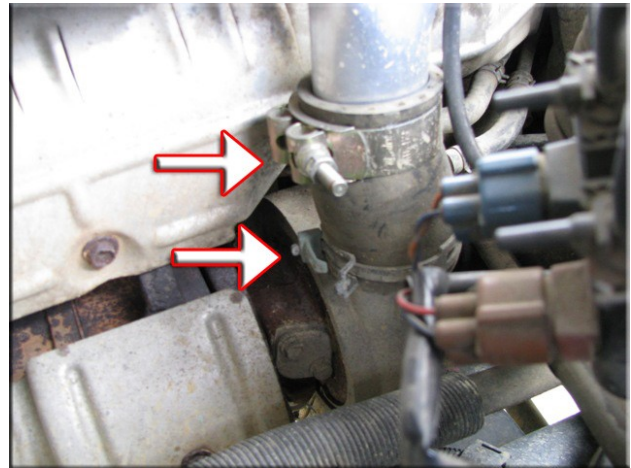
1HD-FT Intercooler Fitting Instructions

Ensure Intercooler is Clean Before Installation

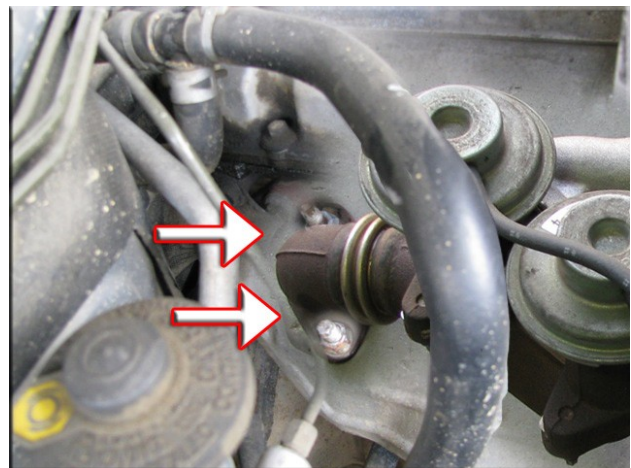
1. Undo and remove the top 2 bolts holding the flange of the factory intake cross member onto the engine intake.
2. Loosen the bottom 2 bolts on the same flange. The flange has slots in it so the lower 2 bolts don't have to be removed.



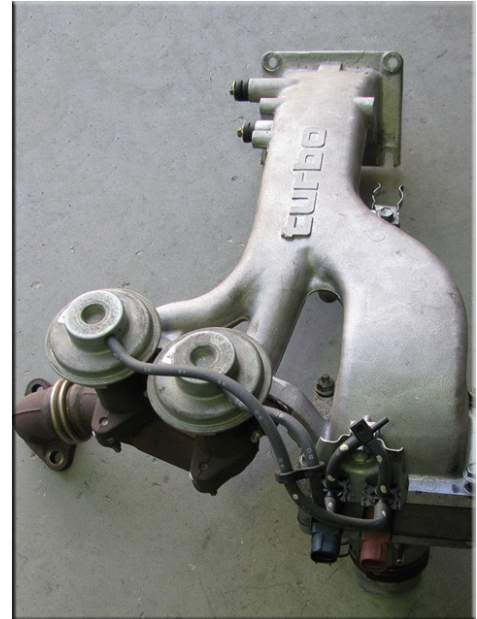
3. Loosen the 2 hose clamps holding the flexible hose between the turbo and the factory air intake cross member.



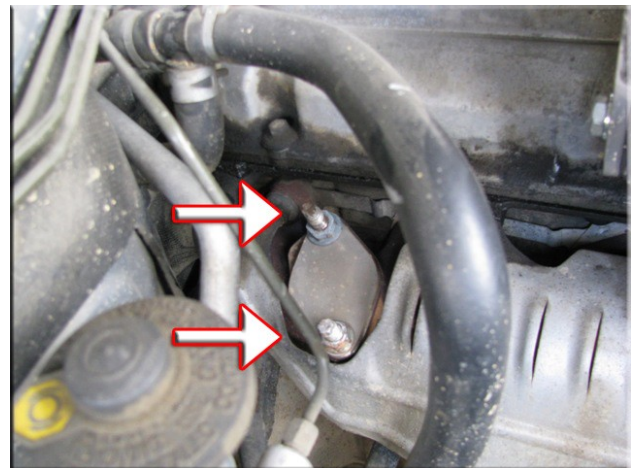
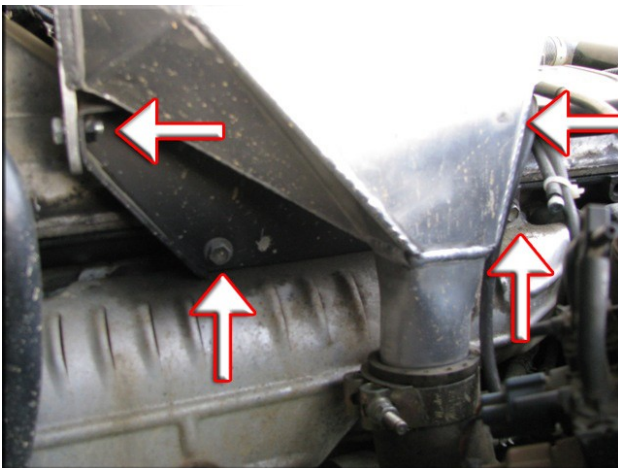
4. If fitted, undo the nuts from the exhaust gas recirculation valve flanges.



5. Disconnect the wire to the preheater element. Insulate the end as this wire won't be reconnected.
6. Remove the throttle cable support bracket.
7. If exhaust gas recirculation is fitted, undo the bolt holding the pipe support bracket up and behind the turbo.
8. Disconnect vacuum hoses and plugs from the factory air intake cross member.
9. Remove the factory air intake cross member.



10. If exhaust gas recirculation is fitted, install the blanking plate supplied.

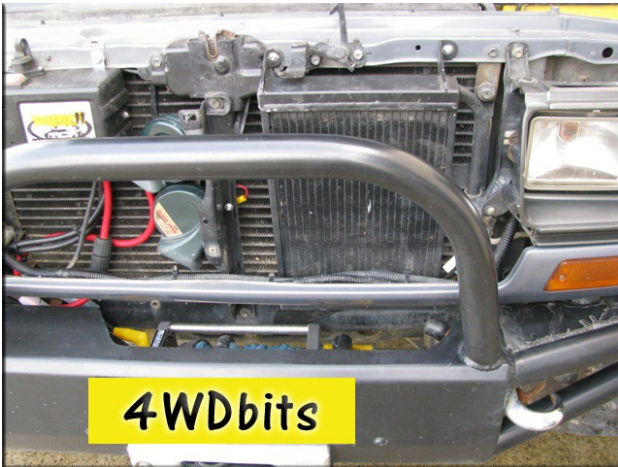


11. Loosely fit the intercooler support bracket to the tapped holes in the engine using the bolts supplied.
12. Fit the intercooler by locating the intake flange and sliding the intercooler legs over the support bracket.
13. Tighten the 4 bolts holding the intercooler to the intake.
14. Position and tighten the intercooler support bracket in place.

15. Slide the flexible pipe over the intercooler intake and tighten the hose clamps at both ends.
16. Reconnect the vacuum line.
17. If exhaust gas recirculation was fitted, the recirculation solenoids may have to be reconnected and mounted somewhere out of the way to stop the dash warning light from coming on.

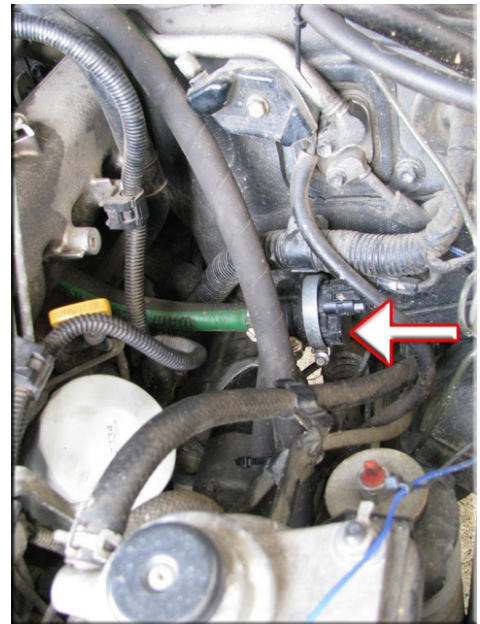
For water to Air Installations

1. Mount the pump using the bracket supplied.

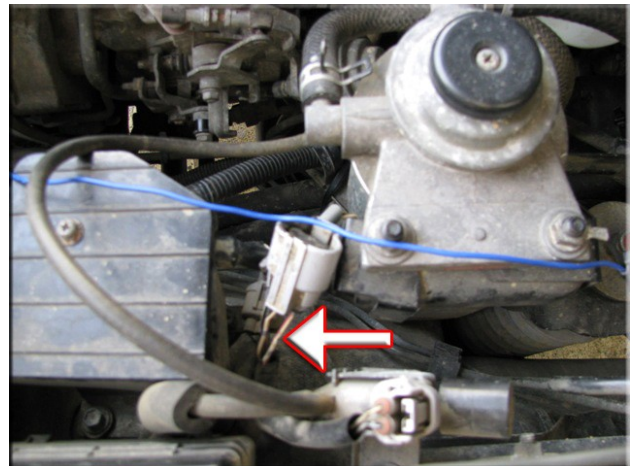


2. Remove the front plastic grill.
3. Mount the radiator on the left side of centre using the left most bonnet catch bolt and the supplied bolt in the factory hole in the cross member.
4. The lower mounting point of the radiator will line up with a factory hole in the lower cross member.
5. Cut and connect the first hose from the front lower intercooler fitting using the 90 degree hose fitting to the centre fitting of the pump. This hose can run down between the engine and intake manifold.
6. Cut and connect a 2nd hose from the second pump connection to the lower connection of the front radiator.
7. Cut and connect the remaining hose from the top rear intercooler fitting using the straight hose fitting to the top connection of the front radiator. This hose can run along the fire-wall.

3



8. The pump draws very little current and can be directly connected into the wiring (white wire with red strip) as shown.



NB: Left hand drive models may require different mounting positions to that shown.

9. Fill the intercooler with an anti-freeze water mix as recommended by the anti-freeze being used. The front radiator will fill and bubble back through the radiator. When fill turn on the pump and refill the intercooler.
10. The intercooler overflow connection can be connected to the main radiator overflow tank to capture and reuse any overflow.