



JBR FOCUS *RS* OIL COOLER INSTALLATION INSTRUCTIONS

Tooling:

- ✓ Jack, jack stands or a lift
- ✓ Ratchet wrench
- ✓ 8mm & 10mm sockets
- ✓ 3/8" socket
- ✓ T-30 Torx Socket
- ✓ Medium crescent wrench
- ✓ Flat head screw driver
- ✓ Philips head screw driver

Included:

- ✓ 1 Oil cooler core
- ✓ 2 Stainless braided hoses (1 long, 1 short)
- ✓ 1 Sandwich plate & 2, 1/8" NPT Plugs
- ✓ 2 Application specific core mounting brackets
- ✓ 2 Aluminized fiber glass heat shield sleeves
- ✓ Stainless steel mounting hardware

**Please be sure to read and understand the instructions thoroughly before beginning.

- ❖ Begin by parking on a smooth level surface with the emergency brake engaged. Jack up the front of the vehicle and position jack stands underneath both sides.



Refer to your vehicle's owner's manual for proper jack placement and supporting procedures.

Never get under a vehicle without the proper support in place.

1. Using a flat head and philips head screw driver, an 8mm socket and T-30 torx socket, remove the fasteners that secure the belly pan and the lower bumper valance.



2. Using a flat head screw driver, remove the hood release cable and disconnect it from the yellow arm.



3. Remove the plastic push pin fasteners and screws that secure the upper bumper valance.



4. Using a T-30 torx, remove the 3 screws on both sides. Disconnect the electrical connections and remove the headlights.



5. Carefully pull the bumper cover away from the fender on both sides.



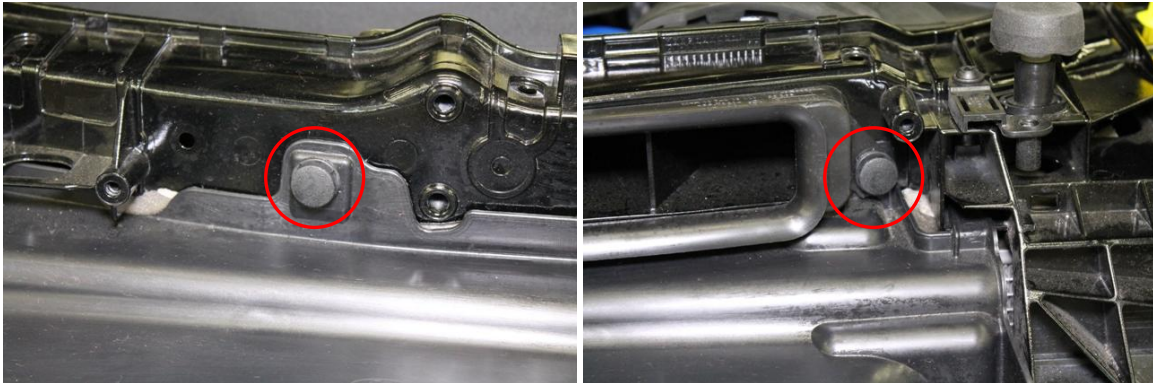
6. Press down to release the 2 clips found below where each headlight was. Then, begin slowly pulling the bumper cover away from the front of the vehicle.



7. With the bumper cover pulled away, remove the fog light electrical connection on the driver's side and remove the front bumper cover assembly.



8. Remove the two plastic push pin fasteners that secure upper section of the radiator ducting.
➤ This Piece will not be re-installed.



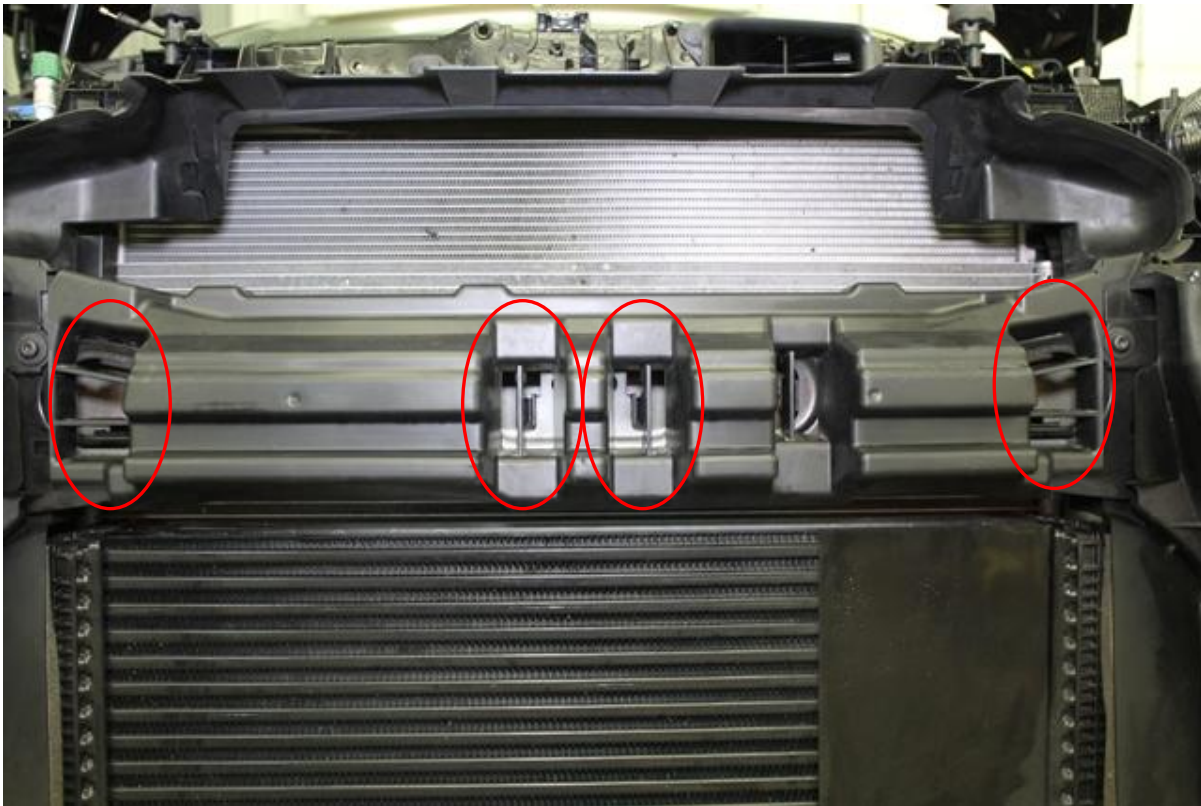
9. Using a T-30 torx bit, remove the side ducting.

- Both will be re-installed when the installation is completed.
- The driver's side will need minor modification to allow for the lines leading to the oil cooler to pass through. See step 14.



10. Squeeze the tabs and remove the inner plastic bumper support.

- This piece will be re-installed when the installation is completed.



Now the fun part...

11. Assemble the core mounting brackets as shown using a 10mm socket, a 10 mm wrench along with the 8 bolts, 8 nuts and 8 washers provided in your kit.

➤ There is no front or back to the core.



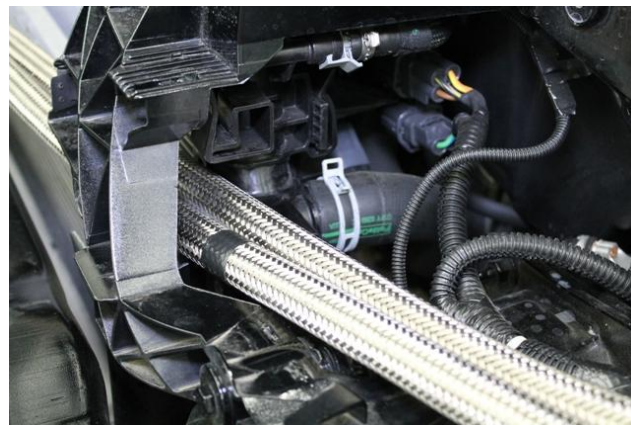
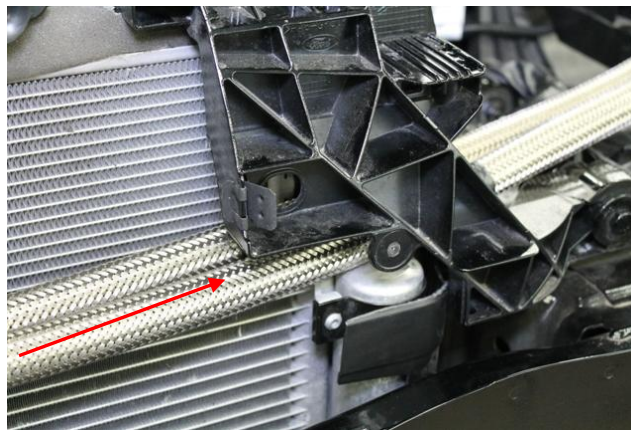
12. Using a crescent wrench, install and tighten the braided lines on to the core. The lines must be tightened parallel to the core as shown with the longer of the two on the left.



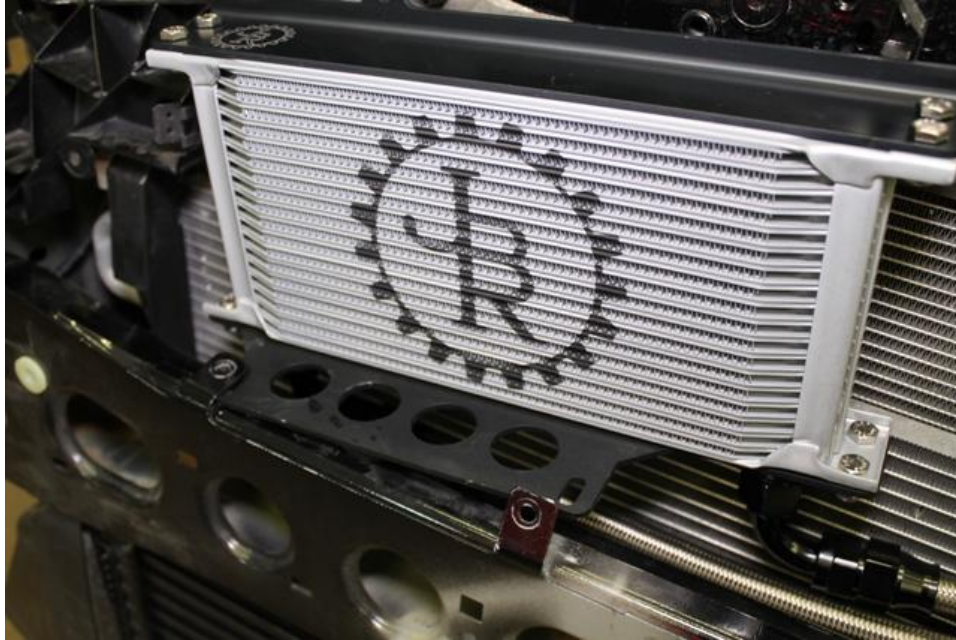
13. Bend the driver's side tab straight up on the inner bumper.



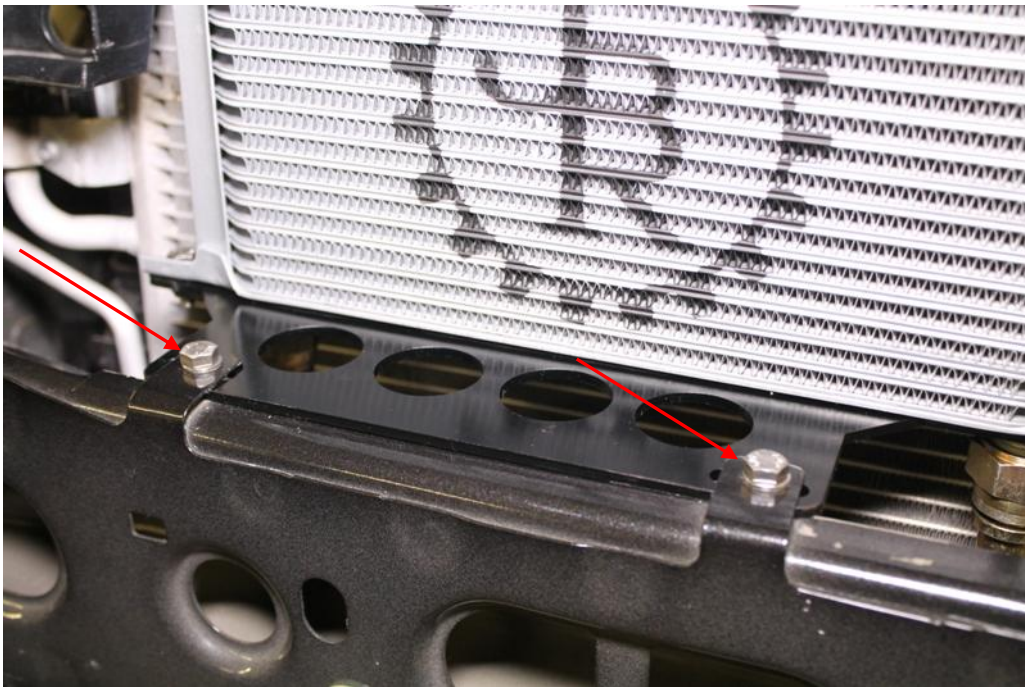
14. Start by slipping the lines behind the front radiator support.



15. Slip the lower mounting bracket beneath the tab on the passenger side, then lower it and bend the tab down over the driver's side of the mounting bracket.



16. Secure the lower core mounting bracket to the tabs in the bumper support as far forward as possible.



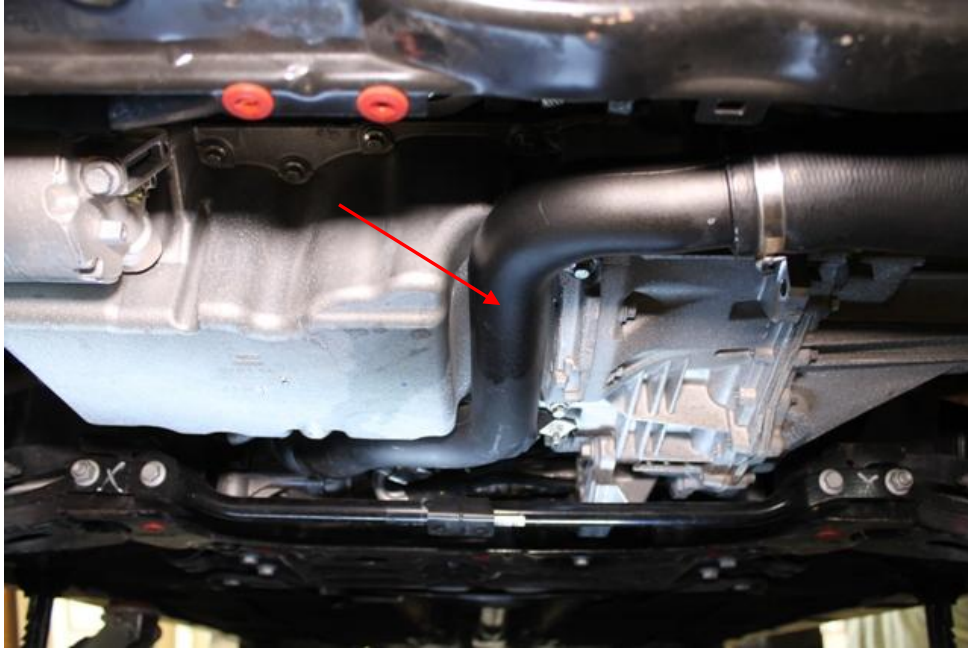
17. Using a 3/8" socket, install the nylon spacer behind the upper mounting bracket and use the hex head screw to complete the installation of the oil cooler core.



18. Remove the oil filter and install the sandwich plate adapter using the male/female bolt provided. Leave loose.
- Apply some oil to the adapter o-ring.
 - Be sure to tighten the 2, 1/8" NPT plugs if they're not going to be used before install the sandwich plate.



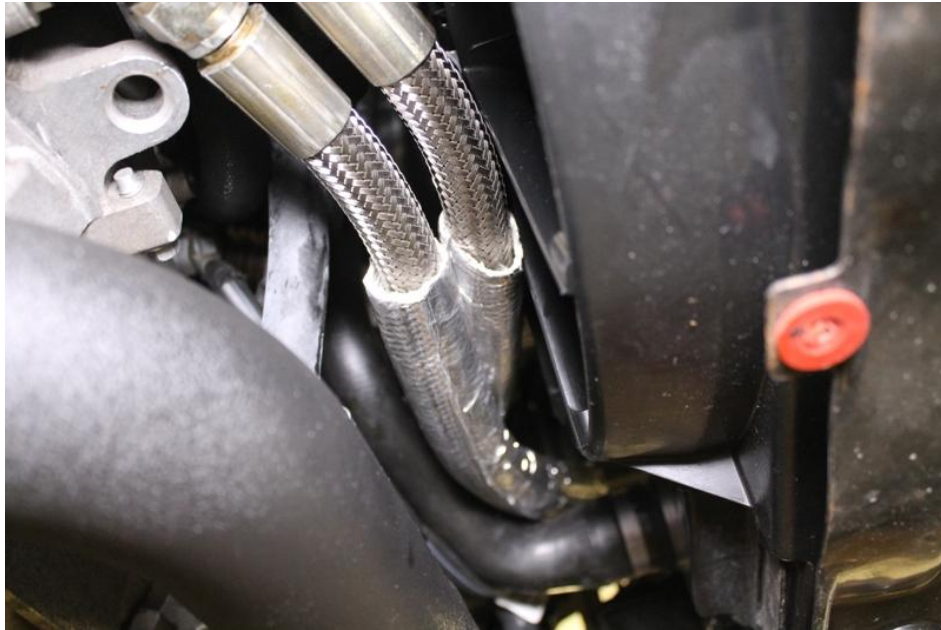
19. Using an 8mm and 10mm socket remove the hot side charge pipe.



20. Slip the heat shielding covers over the braided lines in the area where they will near the lower radiator hose.



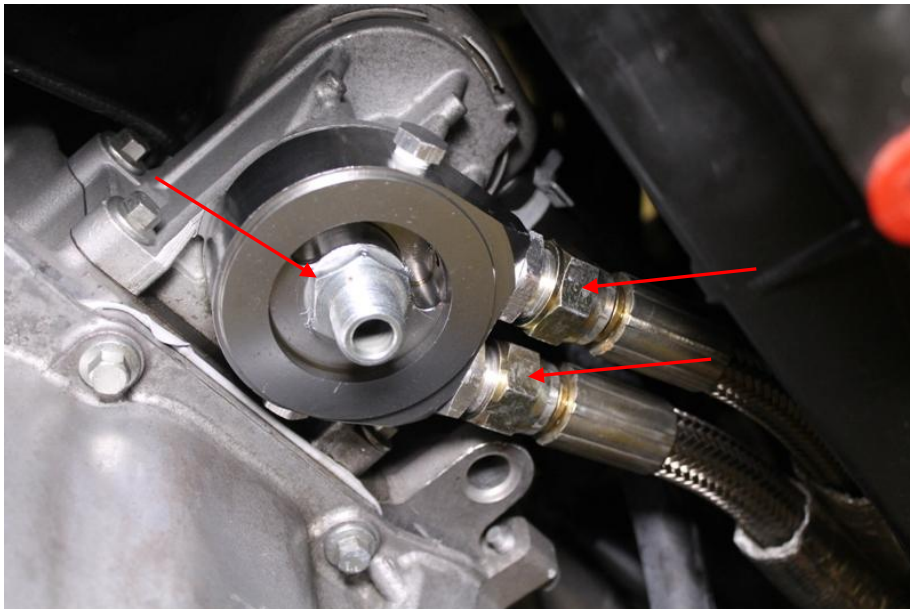
21. Route the hoses around the radiator core support and over the top of the lower radiator hose.



22. Install the braided lines on to the adapter and tighten with a crescent wrench.

➤ Install the longer braided line closest to the motor first and tighten; then the other.

23. Orient the sandwich plate adapter so the braided lines are not touching the motor or the radiator fan and tighten the male/female bolt to 35 ft/lbs



24. Re-install the oil filter.

➤ Apply some oil to the filter o-ring.



25. Re-assemble the vehicle checking your work along the way.

26. Add a ½ qt of oil, start the vehicle, let it run to full operating temperature and check for leaks.

27. Check the oil again and add more if necessary.

28. Put a few hundred miles on the vehicle and check again for leaks.

Congratulations!!
You've completed the installation of your new
JBR Oil Cooler Kit!!