



## **2016+ MIATA ND/RF OIL COOLER INSTALLATION INSTRUCTIONS**

### **Tooling:**

- ✓ Jack, jack stands or a lift
- ✓ Ratchet wrench
- ✓ 2 large crescent wrenches
- ✓ 10, 11, 12 & 27mm sockets
- ✓ 11mm wrench
- ✓ 3/16 allen wrench
- ✓ Medium crescent wrench
- ✓ Flat head screw driver
- ✓ Philips head screw driver
- ✓ C-Clamp (Optional but helpful)

### **Included:**

- ✓ 1 Oil cooler core
- ✓ 2 Application specific stainless braided hoses (1 long, 1 short)
- ✓ 1 oil filter adapter plate kit and hardware
- ✓ 1 Application specific core mounting brackets
- ✓ 2 Aluminized fiber glass heat shield sleeves
- ✓ 4, 6mm bolts
- ✓ 4, 6mm flat washers
- ✓ 4, 6mm lock nuts

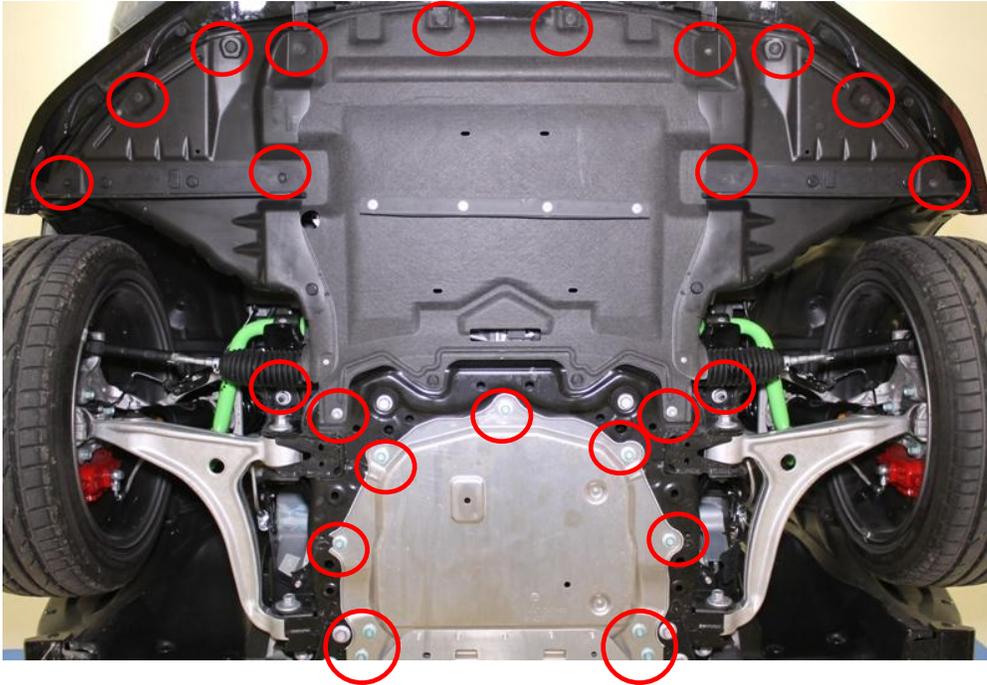
\*\*Please be sure to read and understand the instructions thoroughly before beginning.

- ❖ 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. Remove both front wheels.



Refer to your vehicle owner's manual for proper jack placement and supporting procedures. **Never get under a vehicle without the proper support in place.**

1. Begin removing the belly pans using a 10 & 12mm socket, a phillips head screwdriver and a flat head screwdriver to remove the plastic retainers.



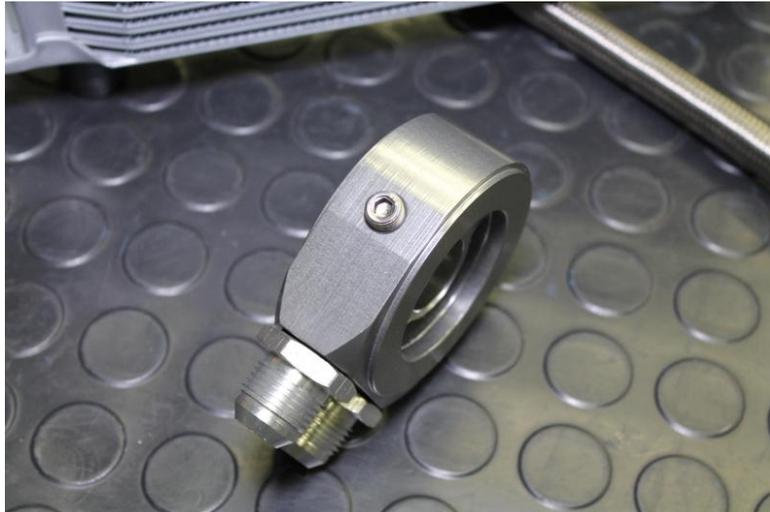
2. Remove the lower portion of the fender liners on each side using a flat head screwdriver.



Using the 6mm bolts, washers and lock, nuts, assemble the mounting bracket to the oil cooler core.



3. Install the included plugs in the filter adapter plate. The flush plug must go on the side where indicated in the picture below. The hex plug goes on the other side.



4. Attach the hoses to the oil filter adapter plate.
  - a. Clamping the adapter plate to a bench will make tightening easier.
  - b. Install the short hose on the left first and tighten.
  - c. Install the short hose on the right and tighten.
  - d. Both hoses must be tightened straight and parallel to each other.



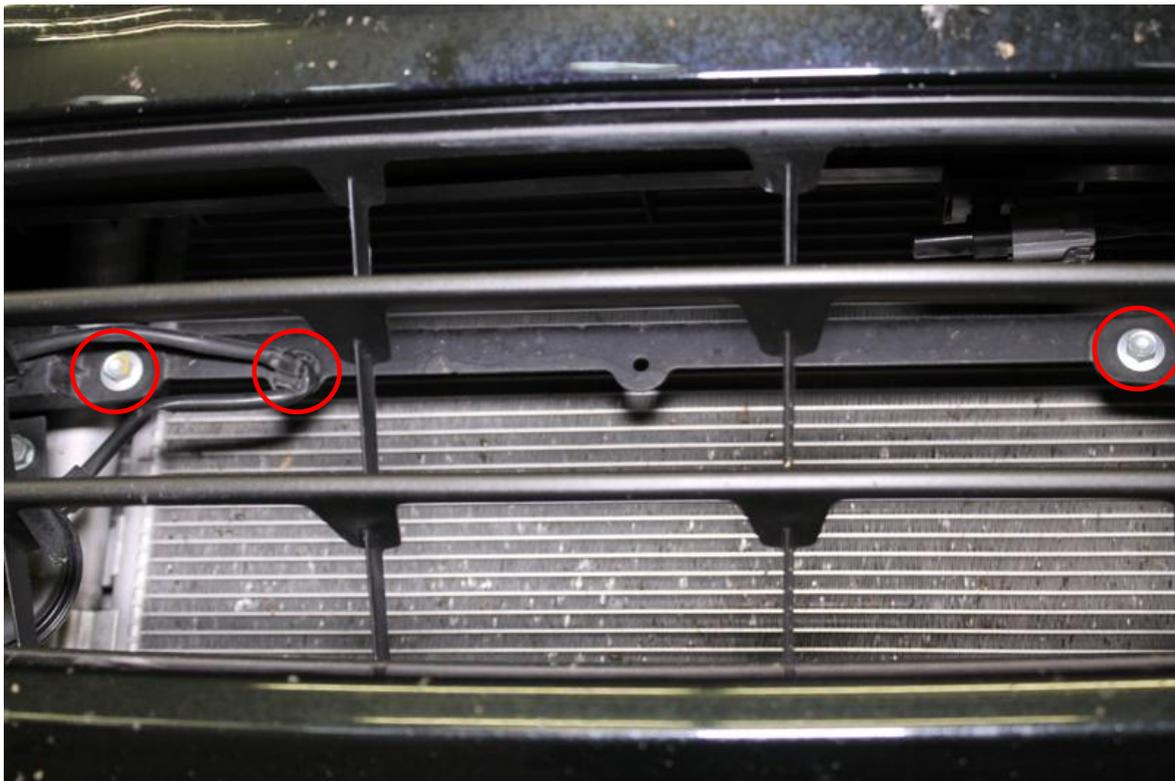
5. Remove the oil filter being careful not to drain it.
6. From beneath the vehicle, feed the adapter plate and line set over the passenger side of the steering rack.



7. Using adapter plate bolt, install the adapter plate on to the filter housing.
  - a. Swivel the adapter plate so it's tight to the engine as shown
  - b. Tighten to 35 ft/lbs



8. Re-install the oil filter.
9. From beneath and behind the grill, remove the two bolts and the plastic clip holding the wiring for the horn shown in the picture below.



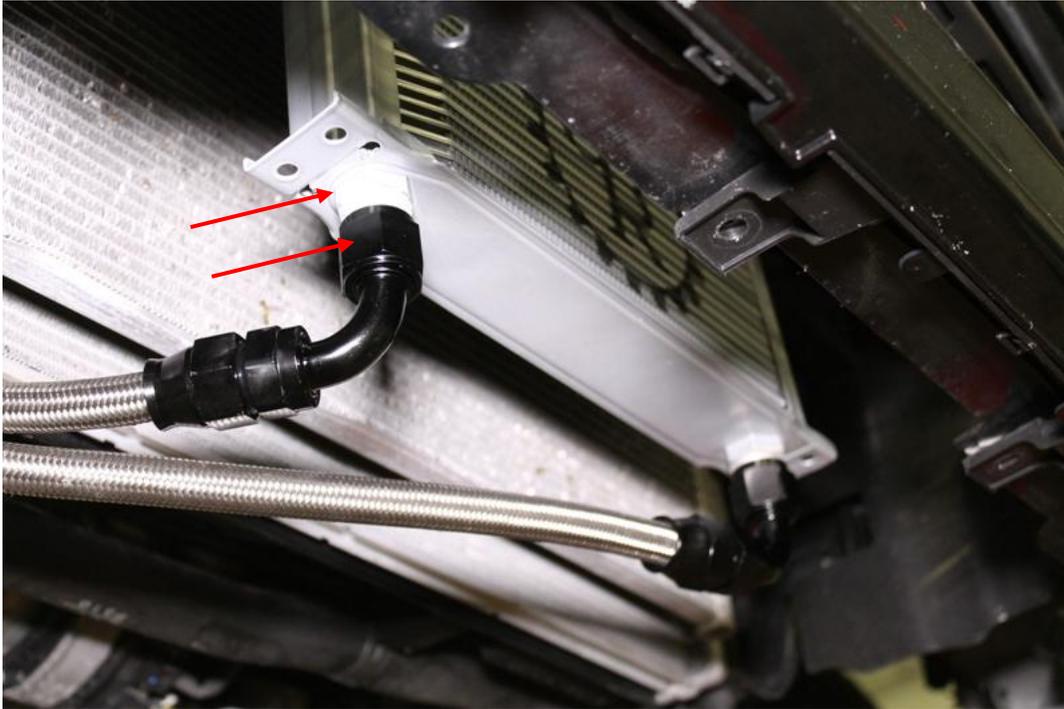
10. Install the core behind the plastic brackets, reinstall the bolts removed in the previous step and tighten.



11. Put the heat shields on each of the oil lines and locate them where shown.



12. Using 2 large crescent wrenches, install and tighten the braided lines on to the core.
  - The second wrench must be used to prevent internal twisting of the core. Leaks in the lower left and or right corners will result if only a single wrench is used and they are not covered under warranty.



13. Add a ½ qt of oil and run until full operating temperature is reached. Allow to cool and check for leaks.
14. Top-off the oil
15. Re-install the belly pans and lower fender liners.

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