

# 2008-2014 SUBARU WRX DIRECT-FIT OIL COOLER KIT

## PARTS LIST AND INSTALLATION GUIDE

### PARTS LIST

**3PC** | APPLICATION-SPECIFIC MOUNTING BRACKETS

**1PC** | 19-ROW OIL COOLER

**1PC** | 2'11" STAINLESS STEEL BRAIDED HOSE WITH  
-10AN FITTINGS

**1PC** | 3'6" STAINLESS STEEL BRAIDED HOSE WITH  
-10AN FITTINGS

**1PC** | OIL SANDWICH PLATE (STANDARD OR THERMOSTATIC  
OPTIONS AVAILABLE)

**1PC** | STAINLESS STEEL SANDWICH PLATE ADAPTER, M20

**1PC** | 15MM CNC-MACHINED SANDWICH PLATE SPACER

**1PC** | 2' THERMASHIELD BRAIDED LINE PROTECTOR

**2PC** | M20X-10AN STRAIGHT FITTINGS

**1PC** | MOUNTING HARDWARE SET

### TOOLS NEEDED

10MM WRENCH

27MM SOCKET

1-IN WRENCH

PHILLIPS SCREWDRIVER

RATCHET

PANEL TOOL

RATCHET EXTENSION

TORQUE WRENCH

10MM SOCKET

OIL FUNNEL

12MM SOCKET

OIL

### DISCLAIMER

- Please dispose of any liquids properly.
- Allow vehicle to cool completely prior to attempting installation.
- Mishimoto Performance (MP) is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of MP products.
- MP always suggests that a trained professional install all MP products.
- Do not run the engine or drive the vehicle while overheating. Serious damage may occur.
- Raise vehicle only on jack stands or on a vehicle lift.

### INSTALLATION INSTRUCTIONS

#### 01 | REMOVING THE FRONT BUMPER AND SPLASH SHIELDS

1. Jack up the car and secure it on jack stands.
2. Remove the four pop clips from the top of the bumper.



3. Remove the eight pop clips from the inside of the fender wells. There are four on each side.
4. Remove the six pop clips that connect the lower splash shield to the bumper and the side splash pans.
5. Remove the three 12 mm bolts from the center splash shield.
6. Unclip the splash shield from the front subframe.
7. Remove the two pop clips that hold the splash shield to the inner wheel wells. There is one pop clip on each side.
8. Remove the front splash shield.



9. Remove the bumper. Pull out on the sides of the bumper to disconnect it from the clips.
10. Unclip the wire harness from the radiator support.

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# 01

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## 02 | INSTALLING THE MISHIMOTO OIL COOLER

1. Install the upper-right bracket to the cooler using the supplied Mishimoto hardware.
2. Install the oil cooler to the radiator support using the opening where the wire harness was connected.
3. Install the provided Mishimoto spacer between the bottom of the cooler and the radiator support. Then fasten the oil cooler to the front of the radiator support using one 10 mm bolt.



4. Install the lower-left bracket using the provided Mishimoto hardware.
5. Using one of the three 12 mm bolts that hold the lower splash shield in place, secure the lower-left bracket to the car.
6. Tighten down all the oil cooler brackets.
7. Once all the bolts are tightened, remove the 12 mm bolt holding the lower-left bracket to the car. This will be installed later with the lower splash shield.



8. Install the shorter oil line to the left side of the cooler using the 150° fitting.
9. Install the longer oil line to the right side of the cooler using the 90° fitting.
10. Route the oil lines into the engine bay.
11. Remove the oil filter from the engine bay.
12. Clean the underside of the engine.

13. Install the fittings on the sandwich plate.



14. Lubricate the O-rings on the CNC-machined spacer and the sandwich plate to ensure a proper seal.
15. Install the spacer and sandwich plate into the engine block.
16. Torque down the center bolt adapter to 30 ft-lb of torque.
17. Lubricate and install the oil filter.
18. Install the oil lines to the sandwich plate adapter.
19. Cut the heat shielding in half.
20. Install the heat shielding onto the oil lines.
21. Remove the clear plastic film on the heat shielding to adhere it to the oil lines.
22. Tighten down the oil line fittings.

## 03 | REINSTALLING THE SPLASH SHIELDS AND FRONT BUMPER

1. Place the front bumper in the correct position.
2. Reinstall the four pop clips on the top of the bumper.
3. Reinstall the eight pop clips to the inside of the fender. There are four pop clips on either side of the car.
4. Refill the oil, start the vehicle, and check for any leaks.
5. Recheck the oil dipstick to ensure the oil level is correct.
6. Reinstall the front splash shield using eight pop clips and three 12 mm bolts.
7. Reinstall the two clips on the back of the lower splash shield.
8. You have now successfully installed your new Mishimoto oil cooler kit. Enjoy!