

# 2006-2007 SUBARU WRX AND STI DIRECT-FIT OIL COOLER KIT

## PARTS LIST AND INSTALLATION GUIDE

### PARTS LIST

- 1PC | MISHIMOTO INTERCOOLER
- 3PC | APPLICATION-SPECIFIC MOUNTING BRACKETS
- 1PC | 19-ROW OIL COOLER
- 2PC | STAINLESS STEEL BRAIDED HOSES W/ -10AN FITTINGS
- 1PC | OIL SANDWICH PLATE
- 1PC | STAINLESS STEEL SANDWICH PLATE ADAPTER, M20
- 2PC | BANJO FITTINGS W/ BOLT, M20 X -10AN, BLACK
- 1PC | 2' THERMASHIELD BRAIDED LINE PROTECTOR
- 1PC | BLACK RUBBER PROTECTOR SQUARE
- 1PC | MOUNTING HARDWARE SET

### TOOLS NEEDED

- |                   |                       |
|-------------------|-----------------------|
| 27MM WRENCH       | FLATHEAD SCREWDRIVER  |
| 1-IN WRENCH       | PHILLIPS SCREW DRIVER |
| 10MM WRENCH (X2)  | PANEL TOOL            |
| RATCHET           | SCISSORS              |
| RATCHET EXTENSION | OIL FUNNEL            |
| 12MM SOCKET       | OIL                   |
| 27MM SOCKET       |                       |

### 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.
- See specific instructions regarding sandwich plate installation on last page.

### INSTALLATION INSTRUCTIONS

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

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

3. Remove the four pop clips from the grille inserts on the front of the bumper.
4. Apply tape under the two side grille inserts to protect from scratches.
5. Remove the two side grille inserts from the bumper.



6. Remove the two hidden pop clips from the bumper. The clips are behind the side grille inserts.
7. Remove the lower splash shield by removing the four 12mm bolts holding it to the car.



8. Disconnect the side splash shields from the bumper by removing the six pop clips holding them to the car. Then remove the side splash shields to reveal two more hidden pop clips that need to be removed.
9. Disconnect the front bumper from the fenders by removing the two screws that secure them together.
10. Remove the front bumper by pulling on the corners to release the pop clips that hold the bumper to the car.
11. Remove the oil filter from the housing.

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## 02 | INSTALLING THE MISHIMOTO SANDWICH PLATE ADAPTER

1. If you have the thermostatic sandwich plate, make sure the thermostat side nut is tight.
2. Lube up the O-ring on the sandwich plate to ensure a proper seal.



3. Attach the sandwich plate adapter to the oil filter housing.
4. Install the two banjo bolt fittings to the sandwich plate. Make sure the fittings are facing downward.

## 03 | INSTALLING THE MISHIMOTO OIL COOLER

1. Attach and route the lower oil cooler line. Use the supplied protective padding to ensure the lines do not come into contact with the A/C condenser lines.



2. Attach and route the upper oil cooler line. Feed this line up between the exhaust manifold and the frame of the car, and then feed the other side of the line between the body and the headlight.
3. Attach the upper right bracket to the oil cooler, using the supplied Mishimoto hardware.
4. Attach the upper left bracket to the oil cooler, using the supplied Mishimoto hardware.
5. Attach the lower mounting bracket to the oil cooler, using the supplied Mishimoto hardware.

6. Remove the left 12mm bolt from the hood latch assembly.



7. Install the Mishimoto oil cooler in the front of the car.
8. Attach and tighten the oil cooler lines to the oil cooler.
9. Reinstall the single 12mm bolt from the hood latch assembly through the upper right bracket of the cooler to secure it to the car.



10. Using the supplied Mishimoto hardware, secure the upper left bracket of the oil cooler to the upper radiator support.
11. Secure the lower oil cooler bracket to the car by using the provided spacer, which allows you to bolt the bracket to a pre-existing nut on the car.
12. Torque the 27mm center bolt adapter on the sandwich plate down to 35 ft-lb of torque.
13. Tighten all oil line connections at the sandwich plate.
14. Cut two 1-ft sections of the provided ThermaShield heat shielding and wrap the oil lines. To protect from heat soak, this heat shielding is used on the section of the lines that run near the exhaust manifold. (Remember to wear gloves when working with the heat shielding, since it is made of fiberglass.)
15. Reinstall the oil filter.

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## 04 | REINSTALLING THE SPLASH SHIELDS AND FRONT BUMPER

1. Position the front bumper in the car before securing it with hardware.



2. Reinstall the six pop clips that hold the top of the bumper to the upper radiator support.

3. Reinstall the two hidden pop clips behind the side grille inserts, and then reinstall the grille inserts using four pop clips.



4. Reinstall the two hidden pop clips on the bottom of the front bumper, then reinstall the side splash shields and secure them to the bumper using six pop clips.



5. Reconnect the bumper to the fenders using the two screws.



6. Refill the oil system as needed, start the vehicle, and check for leaks.

7. Reinstall the lower splash shield, which is secured to the car with four 12mm bolts.



8. Check the oil level and refill the oil as needed.

9. You have now successfully installed your new Mishimoto Oil Cooler Kit. Enjoy!

See specific instructions for installing the sandwich plate →

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## SANDWICH PLATE

### 01 | ASSEMBLING 1/8" NPT PLUGS

1. Inspect components to ensure that male and female port threads and sealing surfaces are clean and dry and free of burrs, nicks, and scratches, and/or foreign material.

2. Apply Teflon® tape (or sealant) 1.5-2 full turns in clockwise direction when viewed from the pipe-thread end. Leave the first two threads without any Teflon® to avoid contamination.



3. Screw plug into port until it is "finger tight."



4. Wrench tighten the plug 2-3 full turns. (1/8" npt only)



5. Remove any excess Teflon® after tightening.



Cleaning



6. Notice that no Teflon® tape is inside the npt port area.