

2010–2015 CAMARO SS

OIL COOLER

PARTS LIST AND INSTALLATION GUIDE



PARTS LIST

- 1 PC |** APPLICATION-SPECIFIC MOUNTING BRACKET
- 1 PC |** 25 ROW OIL COOLER (SLEEK SILVER OR STEALTH BLACK)
- 1 PC |** 65 IN STAINLESS STEEL BRAIDED HOSE WITH 90° -10AN FITTINGS
- 1 PC |** 54 IN STAINLESS STEEL BRAIDED HOSE WITH 90° & 45° -10AN FITTINGS
- 2 PC |** BANJO FITTING WITH BOLT M18 X -10AN + DOWTY SEALS, BLACK
- 1 PC |** M22 OIL SANDWICH PLATE (THERMOSTATIC OR NON-THERMOSTATIC)
- 1 PC |** CNC SANDWICH PLATE SPACER, M22, 15MM
- 1 PC |** STAINLESS STEEL SANDWICH PLATE ADAPTER, M22, 15MM

TOOLS NEEDED

T20 SOCKET/KEY	13MM SOCKET	TORQUE WRENCH
7MM SOCKET	3/8" DRIVE RATCHET	10MM WRENCH
10MM SOCKET	3/8" DRIVE	1" WRENCH
1/4" DRIVE RATCHET	EXTENSION(S)	FLATHEAD SCREWDRIVER
1/4" DRIVER	1 1/16" SOCKET	PANEL TOOL
1/4" EXTENSION	19MM SOCKET	OIL FILTER SOCKET
	1/2" DRIVE RATCHET	

INSTALLATION TIME 1 HOUR

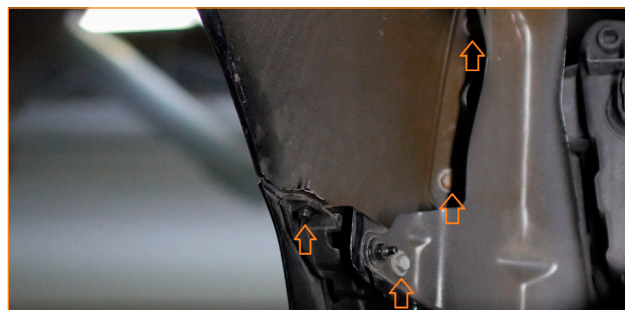
INSTALL DIFFICULTY

DISCLAIMER

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

INSTALLATION INSTRUCTIONS

- 01.** Set the vehicle on an automotive lift or raise it with a jack and place it securely on jack stands. Refer to your owner's manual for safe lifting points if you are unsure.
- 02.** Remove the two bolts that secure the lower edge of the front bumper. (2x 10mm bolts)
- 03.** Remove the three Torx screws and two pop-clips that secure the driver-side fender liner to the front bumper. Then unseat the fender liner and pull it back to expose the front of the wheel well. (3x T20 Torx Screws, 2x pop-clips)
- 04.** Remove the screw and bolt that secure the corner of the bumper to the underside of the fender. Then remove the three bolts that secure the front edge of the fender to the bumper. The upper bolt is hard see, just follow along the seam between the fender and bumper to locate it. (1x 7mm screw, 4x 10mm bolts)



- 05.** Repeat this process on the passenger side. (3x T20 Torx screws, 2x pop-clips, 1x 7mm screw, 4x 10mm bolts)

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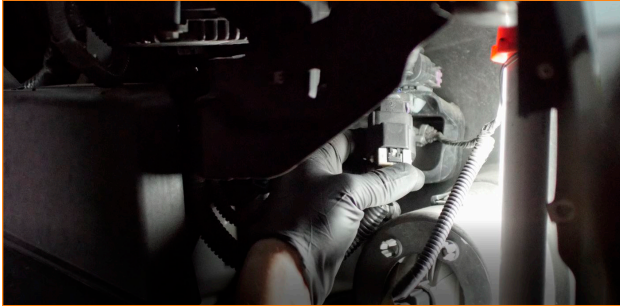
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- 06.** Locate the lighting harness connector behind the bumper on the passenger side and disconnect it. To release this connector, slide the gray locking tab out, and then depress the black tab.



- 07.** Remove the six pop-clips that secure the upper edge of the front bumper. (6x pop-clips)
- 08.** Remove the bolts that secure the upper corners of the bumper. (2x 10mm bolts)
- 09.** Slide the bumper forward and off the nose of the vehicle.
- 10.** Remove the intake tube and airbox from the vehicle.
- 11.** Locate the hardware included with your kit. The small bolts, lock washers, and nuts will be used to attach the bracket to the oil cooler. Install the mounting bracket to the oil cooler as shown here. Then secure the oil cooler with the four bolts, nuts, and lock washers. (4x 10mm bolts, 4x 10mm nuts, 4x lock washers)



- 12.** Locate the large bolts and flat washers included with your kit. This hardware will be used to secure the oil cooler to the vehicle. Install the assembled cooler to the vehicle using the existing holes located just below the hood latch. (2x 13mm bolts)



- 13.** Locate the oil lines in your kit and identify the line with two 90° fittings. Lead the oil line behind the shroud next to the driver-side headlight and pass it around the side of the radiator.



- 14.** Locate the 45° fitting on the second line and lead this end of the line alongside the oil line you just installed. Attach the other end of this line to the driver-side port on the oil cooler. Connect the first line you led to the passenger-side port on the oil cooler. Check to make sure the lines are flowing smoothly around the radiator and tighten both fittings at the oil cooler.

- 15.** Lead both oil lines down through the engine bay. They should run next to the alternator and behind the stabilizer bar.



- 16.** Locate the two pieces of weather stripping included with your kit. Install these strips over the edges of the radiator core where the oil lines pass around it to prevent chaffing.

- 17.** From underneath the vehicle, lead each oil line over the top of both crossmembers.



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18. Place a drain pan underneath the oil filter. Then remove the oil filter from the engine. Wipe the mating surface clean with a shop towel.
19. Locate the oil filter adapter, sandwich plate, spacer, and fittings included with your kit. Note that the sandwich plate and the spacer only have a gasket on one side. Lubricate the gaskets with fresh motor oil. Then stack the sandwich plate and spacer so both gaskets are facing up, and slide the adapter in from the bottom. Now thread both banjo fittings into the sandwich plate.



20. Install the sandwich plate assembly to the engine and thread on the oil filter adapter to secure it. Snug the adapter by hand, but leave it loose so that you can adjust it later. Then attach the 45° fitting to the banjo fitting, which is closest to the front of the vehicle. Tighten the banjo fitting to the sandwich plate, and then tighten the oil line to the banjo fitting. Now attach the 90° fitting to the rear banjo bolt, tighten the banjo bolt to the sandwich plate, and then tighten the oil line to the banjo fitting.



21. Check to make sure your lines are clear of the subframe and torque the oil filter adapter to 35 lb-ft using a torque wrench.
22. Lubricate the gasket on the oil filter with fresh motor oil and install it to the engine.
23. Reinstall the air intake to the vehicle.
24. Top off the oil with one quart of fresh motor oil and check the level on the dipstick. Continue topping off the oil until it reaches the top of the hash marks on the dipstick. Then start the vehicle and allow it to idle for 10-15 seconds. Now shut off the engine.

25. Inspect all the fluid connections on the oil cooler, lines, fittings, and sandwich plate to make sure there are no leaks. If oil is seeping from one of the connections, loosen the fitting and rotate the line. Then retighten the fitting, run the vehicle for 10-15 seconds, and check for leaks again.
26. Slide the front bumper over the nose of the vehicle, taking care to align the corners of the bumper with the fender.
27. Install the two bolts and six pop-clips that secure the top of the bumper. (2x 10mm bolt, 6x pop-clips)
28. Reconnect the lighting harness behind the bumper on the passenger side and lock the connector.
29. Reinstall the four bolts and one screw that secure the bumper to the fender on the passenger side. (4x 10mm bolts, 1x 7mm screw)
30. Reinstall the fender liner and secure it with the two pop-clips and three Torx screws. (2x pop-clips, 3x T20 Torx screws)
31. Reinstall the four bolts and one screw that secure the bumper to the fender on the driver side. (4x 10mm bolts, 1x 7mm screw)
32. Reinstall the fender liner and secure it with the two pop-clips and three Torx screws. (2x pop-clips, 3x T20 Torx screws)
33. Reinstall the two bolts that secure the bottom of the front bumper. (2x 10mm bolts)
34. If you removed the wheels, reinstall them now and torque the lug nuts to 122 lb-ft.

Congrats! You just finished installing the 2010-2015 Camaro SS Oil Cooler.



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