

PERRIN

BRZ/FR-S Engine Oil Cooler Tuner Kit

2022-08-03

PSP-OIL-128

Thank you for purchasing this PERRIN product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation. If you have any questions, please contact our tech department prior to starting installation. We can be reached in any of the following methods:

Email Tech@PERRINperformance.com

Instant Chat off the main page of www.PERRINperformance.com

Or simply call our tech team at 503-693-1702

GENERAL MODIFICATION NOTE

Modifications to any vehicle can change the handling and performance. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive a vehicle safely may result in serious injury or death. Do not drive a vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state or country. Consult the owner's manual, service manual, instructions accompanying these products, and local laws before purchasing and installing these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

SPECIAL NOTES:

- This kit is designed to mount the PERRIN Oil Cooler to your vehicle and all other aspects of the installation are left up to the customer.
- This kit does NOT include many components to allow this to be installed on a car and function safely and properly. Some of the components that need to be purchased are hoses, fittings, thermostatic adapters, hose adapters, hose protection.
- Hose routing for this kit is left up to the customer to determine the best and safest route. Take extreme care where hoses run by sharp object or by exhaust components. Make sure and use proper hose protection in any area of concern.
- Hoses will move and become very hard after installation, keep this in mind for routing of hoses and fittings.
- An additional quart of oil is needed after installation is complete. Make sure and have oil ready to be added or be prepared to do a full oil change after installation. For additional oil changes, check oil level after adding factory fill level, and add more if needed.
- Using an AN wrench to tighten fittings will greatly aid in being able to install all fittings tight and properly.

Parts Included with the PERRIN BRZ/FR-S Oil Cooler:

1	X-PSP-OIL-005P	Oil Cooler Core PERRIN 8 Row x 250mm Wide w/ M22 Inlets
2	X-PSP-OIL-002-1BK	Bracket for PERRIN Oil Cooler BRZ/FR-S Black
1	X-PSP-OIL-100stencil	Stencil for all PERRIN Oil Coolers
4	X-BLT-M8X14CSF-SS	M8 X 14 Flat Head Socket Screw SS
2	X-BLT-M6X50CS-SS	M6 X 50 Cap Screw SS
2	X-BLT-1420WF-Z	Fender Washer .25"ID X 1.25"OD
1	ASM-BDY-500	License Plate Frame PERRIN

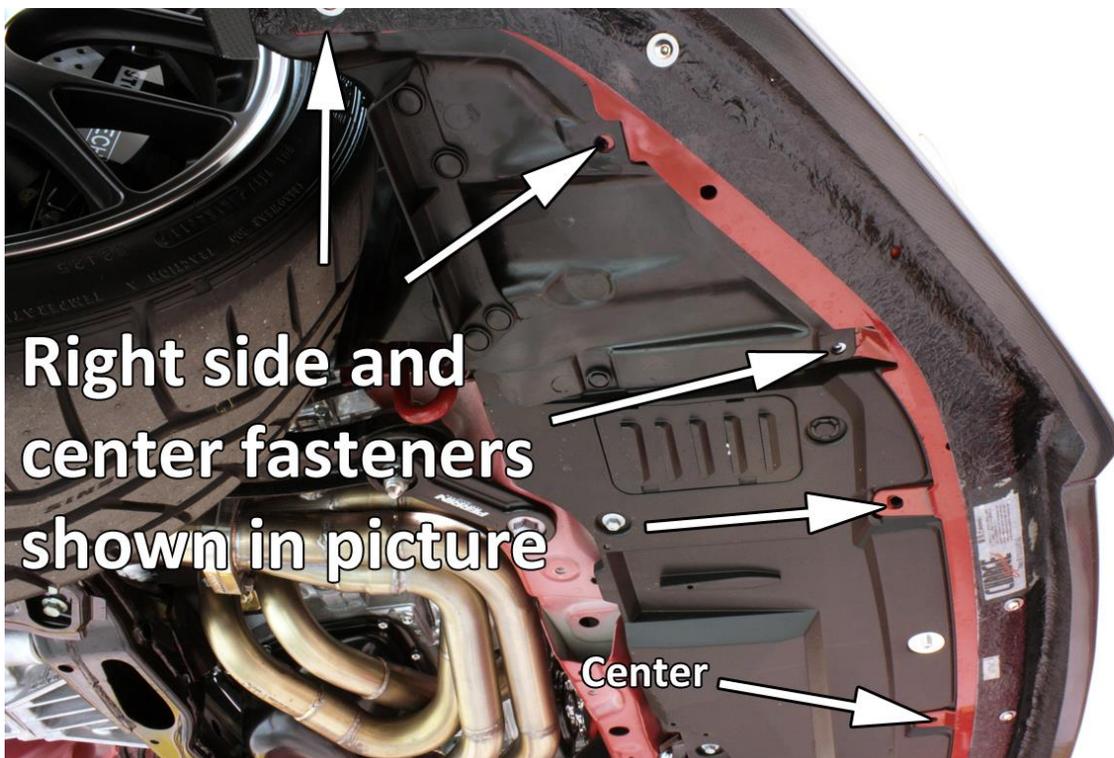


Installation

1. Raise front of vehicle off ground using proper jack and jack stands. Never work under a car solely supported by jack, death or injury may occur.
2. Remove Front Bumper Skin from Vehicle
 - a. Open hood and locate black steel hood seal support bracket. Remove (2) plastic fasteners and (5) 10mm bolts. Remove hood seal bracket from car.
 - b. Starting in each fender well, locate and remove (4) plastic fasteners holding fender liner to bumper skin.



- c. Under car, locate and remove (2) 10mm bolts, and (6) plastic fasteners holding lower portion of bumper skin to car.



- d. Locate left and right side marker lights and pull from the top to unsnap from car. With side markers free of car, remove light bulb harness from back by twisting roughly 45 degrees. **NOTE: During removal of side markers, there are small clips that can become dislodged. Take note to not loose these small clips.**



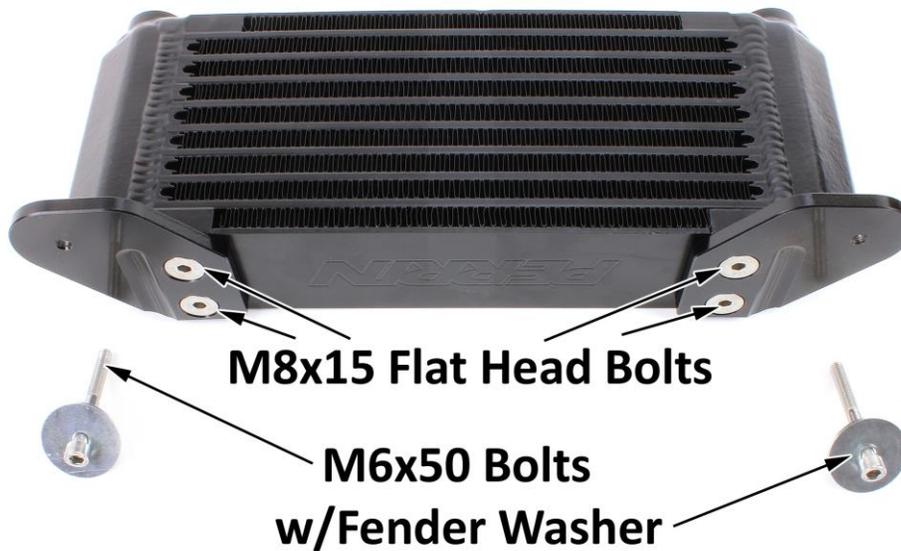
- e. Behind each side marker is a single plastic fastener that needs to be removed. This fastener is a little tricky and may require a pick tool and or a bent awl.



- f. Reach behind fender liner and disconnect both left and right fog light harnesses. **NOTE: These can be tricky and will require a flat head screwdriver to help release clip.**
- g. Starting at corners where side marker lights were installed, pull bumper straight out away from car to unsnap from chassis. Do this to one side then the other before proceeding to next step.



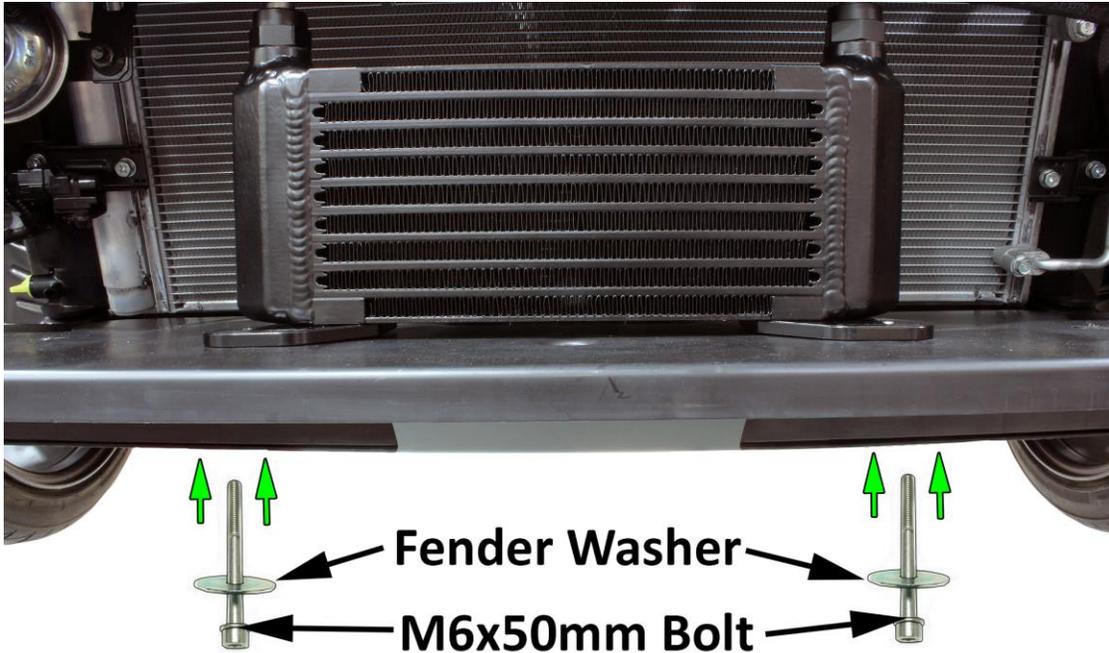
- h. Continue with unsnapping bumper from chassis working from each side marker light toward front of car. During this step the bumper will become fully dislodged from chassis to be prepared to catch. **NOTE: Having a friend help with this step is a good idea to help catch bumper from hitting the ground.**
3. Install supplied PERRIN mounting brackets to bottom of oil cooler using supplied M8x15 flat head screws as shown below.



4. Remove plastic caps threaded into oil cooler.
 5. Set oil cooler onto lower slash guard, behind bumper beam and line up with holes in lower section as shown below.



6. Install supplied fender washer onto M6x50 bolt. Install bolt with washers from bottom of car up through splashguard into PERRIN Oil Cooler Brackets. Tighten bolts down to roughly 15 to 20ft-lbs or just beyond hand tight. **NOTE: Do not over tighten these bolts, as they will eventually break through plastic part of splashguard.**



7. Install all oil lines, brackets, and other necessary items to complete the installation. See notes above regarding some of the components needed and hose routing info.
8. Before starting car, turn key on and apply 100% throttle to your car, then try to start your car with the throttle still at 100% (or floored). Your engine will not start but turn over only. Do this for roughly 5 seconds and wait 10 seconds, then do this one more time for 5 seconds.
9. Start your car like normal and let it run for 10 seconds, then shut engine off. Heavily inspect all oil lines and connections for leaks. If no leaks are found, add your additional QT of oil at this time.
10. Start engine and let it run for at least 5 minute and recheck all fittings and hoses for oil leaks. If no leaks are found move to step 23.
11. Reinstall bumper back to car in the reverse order it was removed.
12. Start engine let it run for at least 5 minutes and check one more time for oil leaks. If no oil leaks are found take car for a 15-minute test drive and recheck all fittings one last time and recheck oil level one last time.

FOR QUESTIONS & COMMENTS PLEASE CONTACT

TECH@PERRINPERFORMANCE.COM

503-693-1702

Live Chat with us on our website