

PERRIN

2022+ WRX Charge Pipe

2023-01-16

PSP-ITR-201

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@PERRIN.com

Instant Chat off the main page of www.PERRIN.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.



WARNING: This product can expose you to chemicals including Lead which is known to the State of California to cause cancer birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

WHICH WAY IS THE RIGHT WAY?

In ALL situations, when describing left and right sides of the vehicle it is always as though you are sitting in the driver's seat looking forward.
Example of a US Market Vehicle: If standing in front of the car, looking at the engine bay, the Drivers side is described as the LEFT side the vehicle.

SPECIAL NOTES

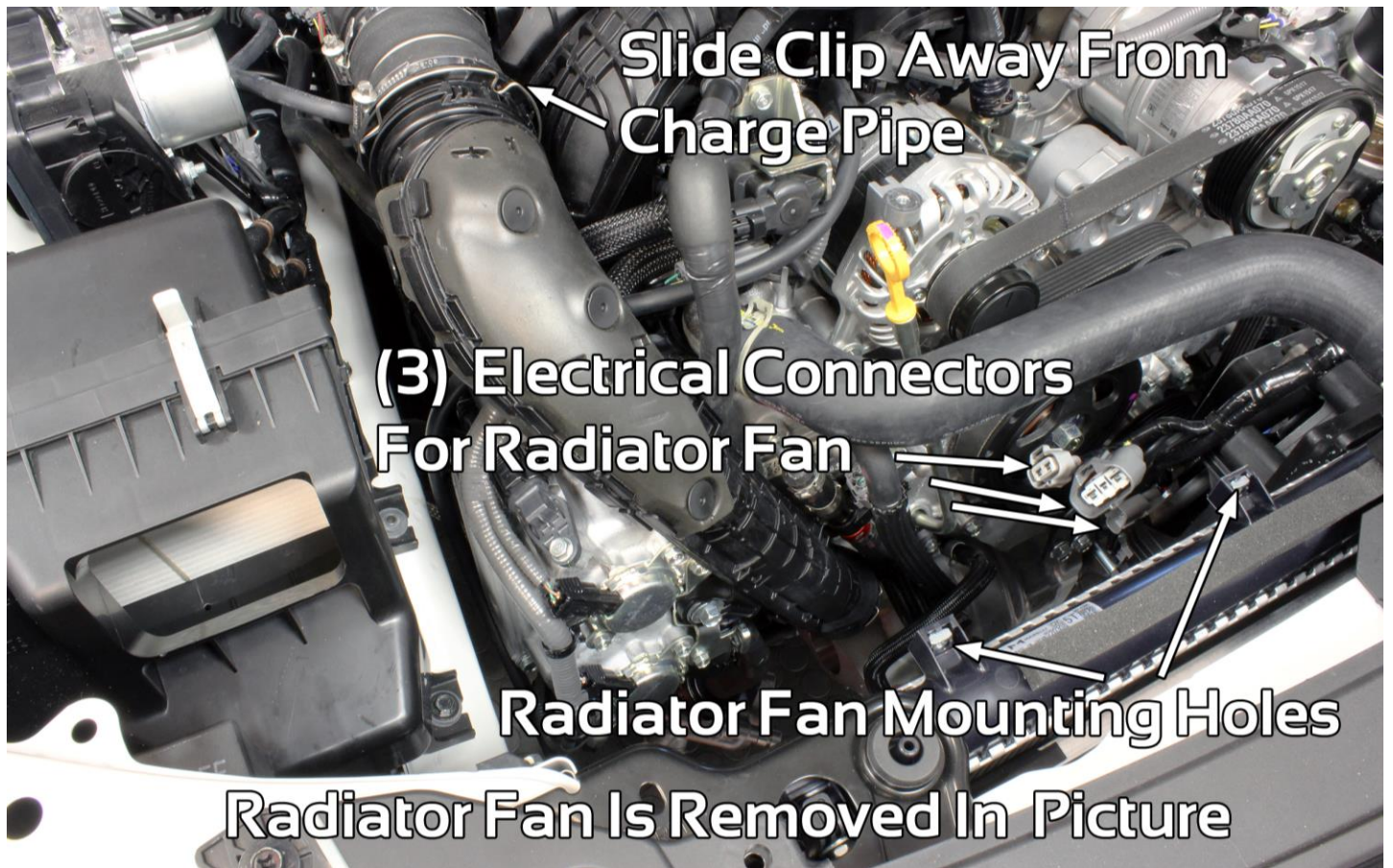
- Ascent, Outback and Legacy vehicles have a single piece radiator fan shroud. If the charge pipe is being installed on one of these, vehicles, skip the steps that are showing removal of the fan and go straight to Step 7.
- Make sure there is clearance with engine and other sensors that charge pipe runs next to. Failure to add clearance will lead to engine damage and damage to charge pipe.
- Make sure there is clearance between the radiator fans and pipe. Sliding the pipe in and out of the two couplers will adjust where the pipe sits and clears the radiator fans.
- **This part will have extremely tight clearances with aftermarket radiators. Either modification to piping must be done or an ultra slim radiator fan must be used. In track type situations, removing the fan is also an option as the other fan will still operate and cool the motor down.**

Parts Included with the PERRIN Charge Pipe:

QTY	Part Number	Description
1	X-PSP-ITR-201BK	Charge Pipe for 22+ WRX/FA24 DIT Black
1	X-PSP-INT-212BK	Coupler 2.75" x 3" Long, 3ply w/.170" Wall Black w/PERRIN (Single)
1	X-PSP-ITR-201-1BK	Charge Pipe Turbo Adapter for FA24DIT Black
1	X-PSP-ITR-407-3BK	Coupler 2.25" ID X 4" Long Black w/PERRIN logo
2	X-CLAMP-036	Clamp Size 36 or 50-70mm
2	X-CLAMP-048	Clamp Size 48 or 60-80mm

Removal of OEM Charge Pipe:

1. Remove (2) fasteners holding fresh air intake scoop to car and remove scoop from car.
2. Locate and remove (3) electrical connections from right side radiator fan. **NOTE: Using a small flat head screwdriver or similar tool can aid in pushing the small buttons down to free connections.**
3. Locate and remove (2) bolts securing right side radiator fan to radiator. Carefully remove fan from engine bay, taking extreme caution to NOT drag the fan across the radiator as it is pulled out.



4. Locate and remove (1) bolt securing OEM charge pipe to front of engine.
5. Using a flat head screwdriver, pry upper stainless steel quick release clip away from charge pipe until it latches into grooves as shown.

Pull Clip Up Until It Latches On Both Sides



6. Pull charge pipe toward the front of the car to free from the intercooler connection.



7. Locate lower stainless steel quick release clip securing charge pipe to turbo. Using a flat head screwdriver pry clip away from charge pipe while slightly pulling up and wiggling charge pipe. This should free charge pipe from turbo and allow you to remove it from the engine bay. **NOTE: This step can be tricky due to the available tools you have and the tight clearances. It may require prying the clip in a couple of different locations while pulling up.**
8. Loosen hose clamp securing remaining coupler and quick release fitting to intercooler, then remove from car.

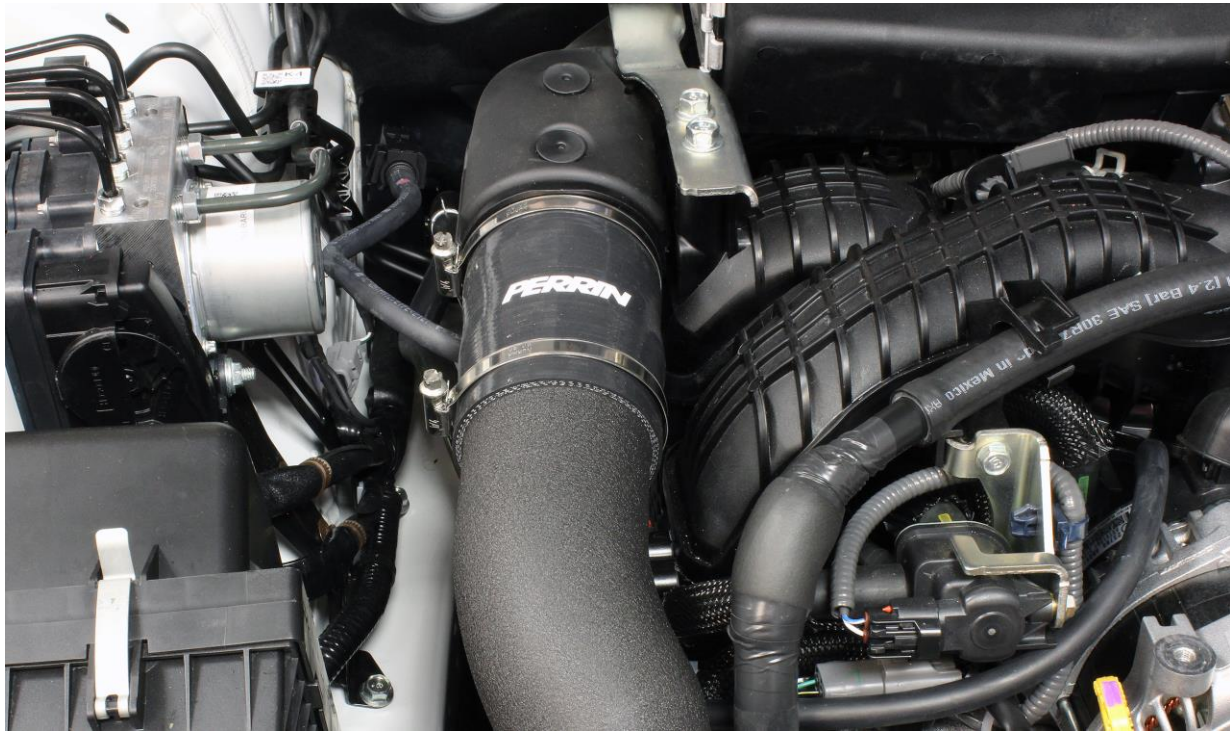


Installation of PERRIN Charge Pipe:

1. Carefully remove O-Ring from OEM charge pipe and place into supplied PERRIN Charge Pipe Turbo Adapter. **NOTE: We recommend applying a small amount of oil or grease to the o-ring to make installation of the turbo adapter easier.**
2. Remove lower stainless steel quick release clip from charge pipe and place onto PERRIN Charge Pipe Adapter. **NOTE: The orientation of the clip does not matter as this will be rotated into place during a future step.**
3. Install supplied 2.25" coupler onto charge pipe turbo adapter and secure with supplied size 36 hose clamp. Make sure to place clamp behind the bead on the adapter to ensure hose does not come off after it has been installed.



4. Slide turbo coupler assembly onto turbo (making sure to rotate it slightly as it goes down) and listen for the stainless steel quick release clip to snap into place. Test that has been clipped in properly by pulling up and twisting assembly.
5. Rotate assembly until the center of the stainless-steel clip is toward the front of the car. This is done to ensure future removals of charge pipe are easily done.
6. Install remaining size 36 hose clamp onto coupler but leave loose at this time.
7. Install supplied 2.75" coupler onto intercooler pipe until it stops, then secure with supplied size 48 hose. Slide remaining size 48 hose clamp onto coupler but leave loose at this time.
8. Install PERRIN Charge Pipe into lower coupler first, then into upper coupler. Align charge pipe by rotating it, pushing and pulling it in and out of the couplers, making sure to add clearance to all sensors and engine parts.
9. Slide hose clamps over beads on tubes and tighten hose clamps. If there is not enough room to install hose clamp behind bead on tube, readjust charge pipe in couplers. **NOTE: Adjust the rotation of lower hose clamp so that it can be easily unscrewed in the future without having to remove the radiator fans.**



10. Reinstall radiator fan to radiator, making sure that small round tabs on the bottom are lined up with lower holes on radiator. Install (2) bolts removed earlier to secure fans to radiator. Plug in the (3) electrical connections on fan.
11. Reinstall intake scoop that was removed earlier then start car and check for leaks. If no leaks are found and engine is running as it was before, the installation is complete. If engine is running rough double check all hose connections, then see tech support if you have further issues.

**Questions, Comments and Suggestions Contact: Tech@PERRIN.com
Call Our Tech Team at 503-693-1702**