Intercooler Shroud and Belt Cover for 2015-21 WRX

2026-05-21 PSP-ENG-165

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

WARNING: Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands.

SPECIAL NOTES:

- This part is designed to be installed with stock and most aftermarket top mounted intercoolers. Test fit intercooler shroud with aftermarket intercooler before proceeding with installation.
- Clearance to strut bars can be tight, make sure and adjust shroud as far away as possible and even consider loosening the intercooler mounts to shift it toward the front of the car.

Included Parts with PERRIN Intercooler and Belt Cover:

1	X-PSP-ENG-165-1BK	Intercooler Shroud for 2015+ WRX Black
1	X-PSP-ENG-152-1BK	Pulley Cover for 2015+ WRX Black
1	X-PSP-ENG-152-2	Bracket for 2015 WRX Pulley Cover
2	X-PSP-ENG-165-3	Foam Tape Triangle for Intercooler Shroud
1	X-BOX-150	22” x 20” x 4” DC w/ PERRIN Logo
18	X-TRM-005	Trim Foam Tape 1"x1" square black foam (roll from QCS)
12.75	X-TRM-004	Trim Rubber Bulb On Top
2	X-PSP-ENG-165-2	Spacer for 2015+ WRX Intercooler Shroud (EDP 500)
2	X-PSP-ENG-152-3BK	Billet Washer for Flat Head M8 Black
2	X-BLT-M8X20CSF-SS	M8 X 20 Flat Head Socket Screw SS
2	X-BLT-M8NF-Z	M8 Nut
4	X-BLT-M8X25WF-Z	M8 Fender Washer
1	X-BLT-LOCTITEBLUE	Blue Loctite 242 2ml Pack
2	X-BLT-1132CSB-SS	10-32 X 2 Button Socket C/S SS
2	X-BLT-11.669NW-BIR	10-32 x.669" Rubber Wellnut
2	X-BLT-M8X16CSB-SS	M8 X 16 Button Head Cap Screw SS
2	X-BLT-CT080B-18	Zip Tie 8" Long
2	X-BLT-M6X14CSB-SS	M6 x 14mm Button Head Socket Cap Screw SS
2	X-BLT-M6NS-SS	M6 Lock-Nut SS
4	X-BLT-M618WF-SSBO	M6 x 18 Fender Washer Black Oxide SS

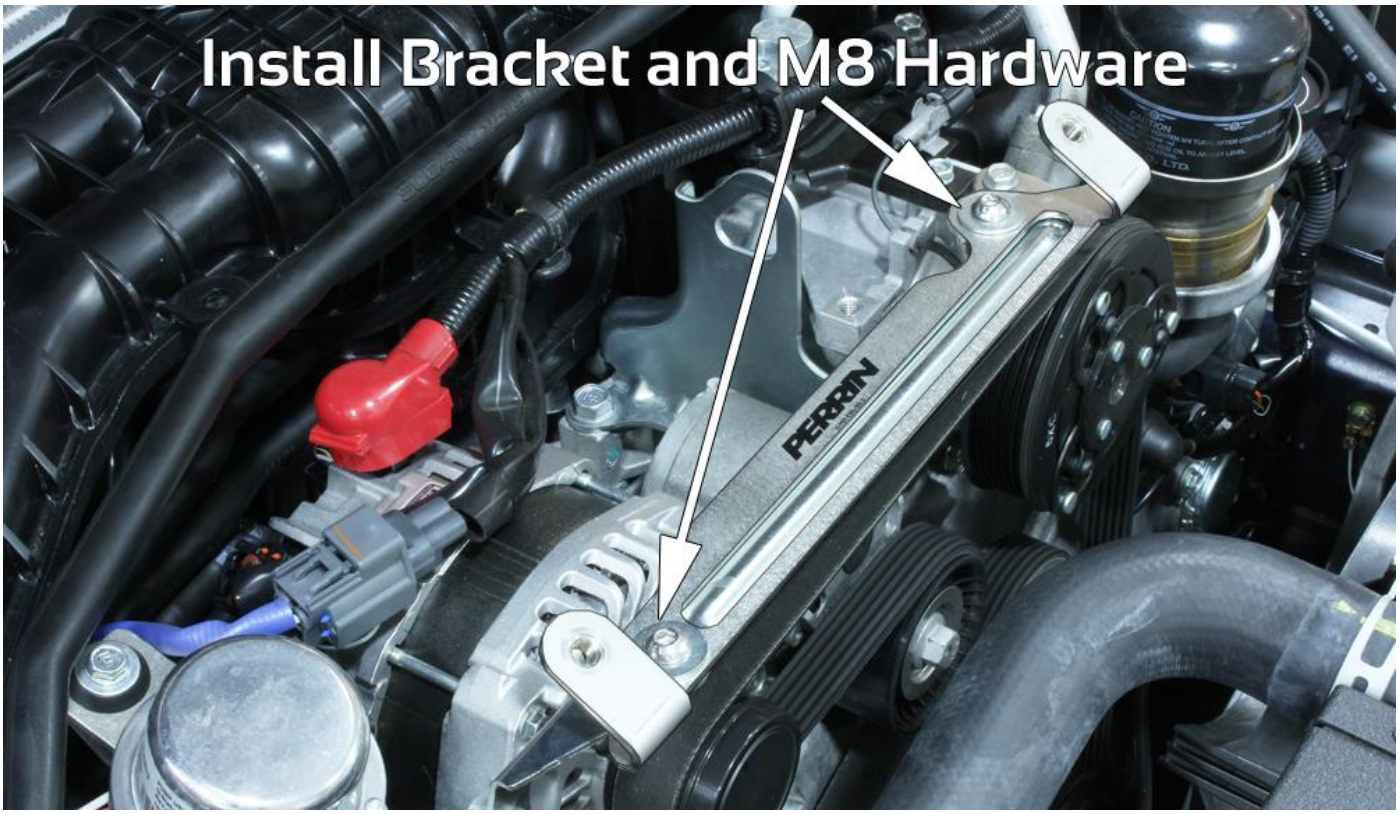


Installation Instructions

1. Remove engine cover from engine by removing (2) plastic pop-it type fasteners at rear and pulling straight up on front. Take care in doing this as the buttons that secure the front half are fragile and can break off.
2. Locate and remove (2) rubber grommets left behind where front of engine cover snapped into OEM bracket.



3. Install supplied bracket over top of OEM engine cover bracket. Apply a small amount of thread locker to M8 button head screws. Use supplied M8 button head screws, M8 fender washers, and nuts to secure supplied bracket to OEM bracket. Tighten bolts to roughly 16ft-lbs. **NOTE: Line bracket up with OEM bracket as best as possible before tightening hardware. Further adjustment can be made in later steps to account for variation in parts.**



4. Locate and remove (2) small plastic connectors on intake manifold securing plastic tube.



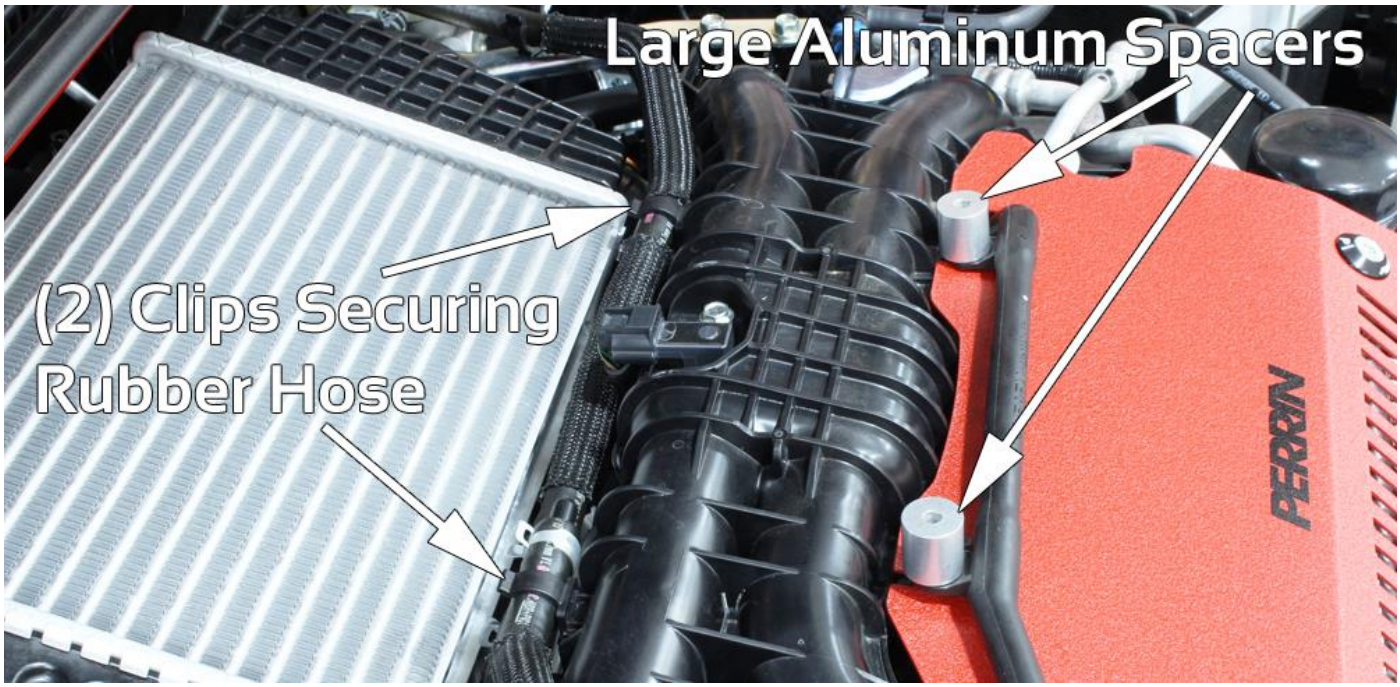
5. Drill out holes with a 3/8” drill bit as shown in below picture.



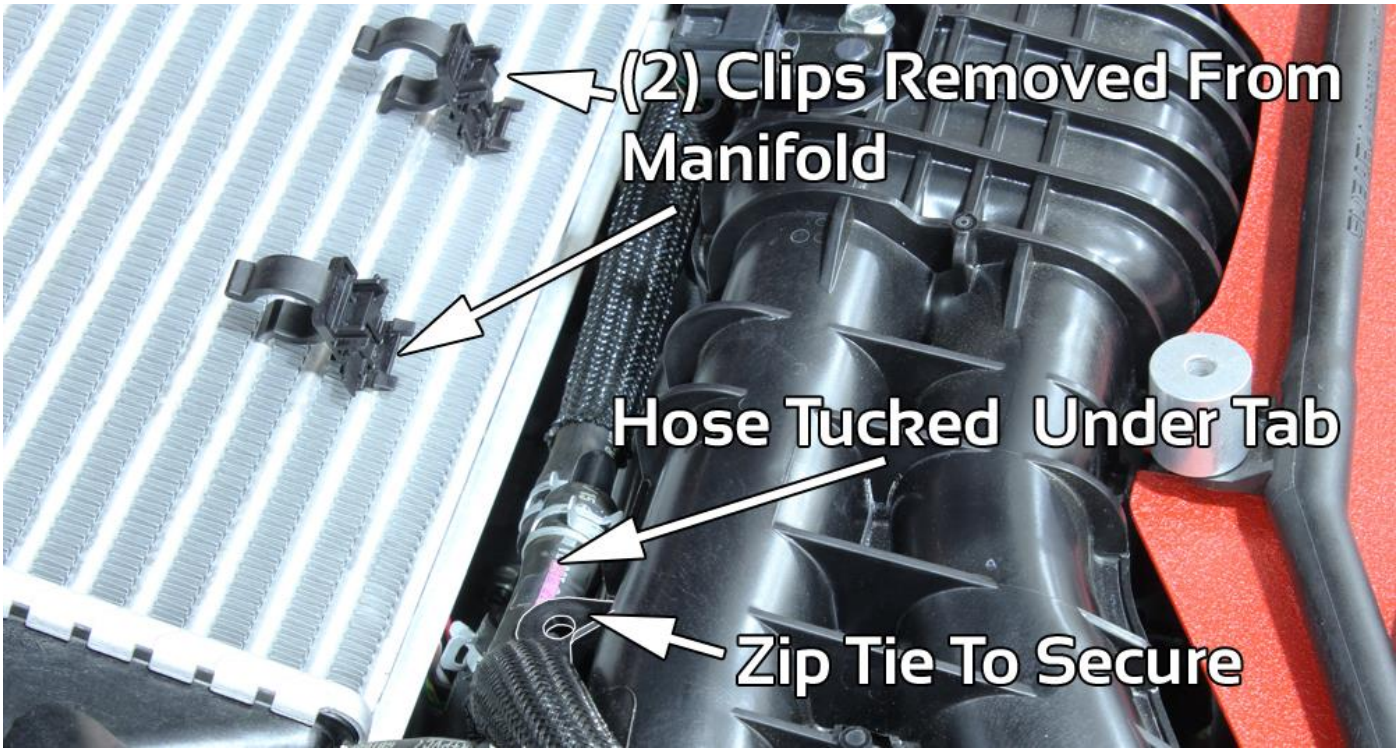
6. Install supplied rubber well nuts into each hole making sure that the large flange side is facing up.
7. Install belt cover over well nuts and under plastic tube as shown below.

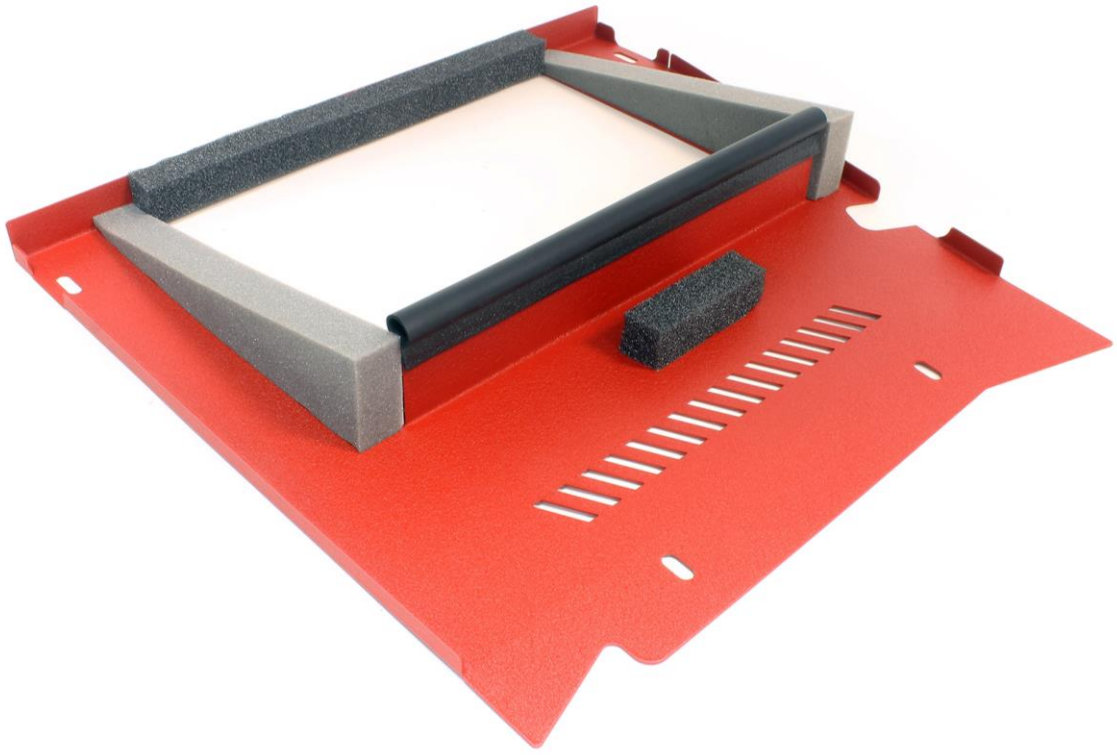


8. Set large aluminum spacers over plastic tubes mounting tabs as shown below.
9. Locate two plastic clips securing rubber hoses to intake manifold. Remove hoses from clips then remove clips from manifold as shown in pictures below.

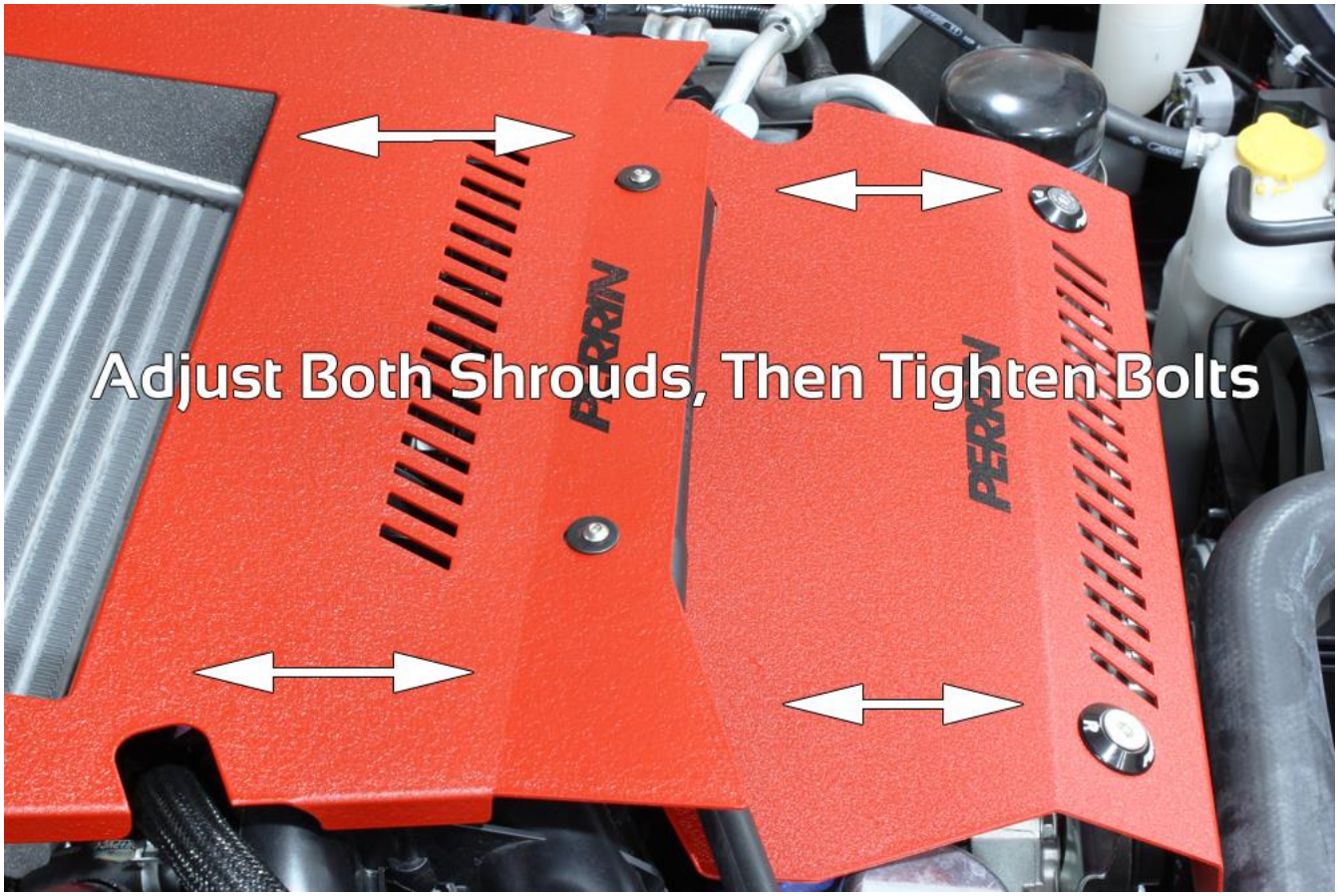


10. Tuck rubber hose under plastic tab as shown below. Secure with supplied zip tie. This is important to add clearance to the intercooler shroud being installed.

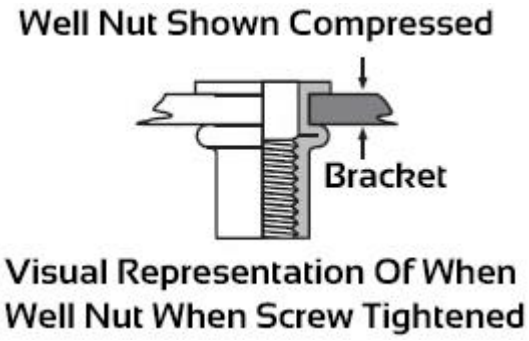




11. Using above picture as reference, install supplied triangular foam seals to the sides of shroud, making sure to apply pressure for a few seconds to each section. Then install supplied rubber trim to front angled edge.
12. Using picture above as reference, locate 18” long piece of foam and cut it to 14” (the width of the space between each triangular piece of foam) and place it on the back edge. Then install remaining 4” long foam piece onto the shroud in the center, just behind the vents.
13. Set shroud on back of intercooler first, then pull toward front of car to line up with large spacers.
14. Foam tape at rear of intercooler is designed to compress when installed and also designed to work with aftermarket intercoolers.
15. Install supplied 10-32x2” bolts with black fender washers through slots in front of intercooler shroud. Line up bolts and large aluminum spacer with rubber well nuts installed in previous step. Thread bolts into well nuts roughly 2 turns.
16. Install supplied black billet aluminum washers and M8 flat head bolts to holes in front of belt cover but leave loose for now.



17. Adjust plastic hose, intercooler shroud and belt cover until it is lined up with front of car. Tighten 10-32 screws until hand tight. **NOTE: As the screws are tightened up, the rubber well nut compresses and grabs back side of hole in manifold creating a secure mount. It is important that they are fully seated before tightening and that the screw is not cross threaded or the well nut will not function properly.**



18. Double check that belt cover does not rub on any of the engine pulleys. If you find them rubbing, loosen all hardware and readjust to add clearance. NOTE: You may need to loosen M8 hardware holding the bracket to the engine, and adjust the location of this to add more clearance.



19. Secure rear portion of intercooler shroud with supplied M6 bolts, black fender washers and M6 nuts. NOTE: You will have a hard time getting a wrench on each nut while tightening. Use needle nose pliers to hold while tightening M6 bolts.
20. Do one last double check to ensure there are no items rubbing on bottom side of intercooler shroud.
21. After a week of driving check that all hardware is still tight.

Questions, Comments, and Suggestions Contact: Tech@PERRIN.com
Visit Our Website for Instant Chat Options at www.PERRIN.com
Call Our Tech Team at 503-693-1702