

PERRIN

PERFORMANCE

EQUAL LENGTH Big Tube STI HEADER

112111

Thank you for purchasing the PERRIN Equal Length Header. Persons experienced in the installation and proper operation of Subaru engines should only perform installation of this part. Please read through all the instructions before performing the installation.

WARNING: This part is designed, manufactured, and sold solely for use on off-road and racing vehicles not controlled by federal and or local emissions laws. It is not intended for use on vehicles that operate on public streets and highways. Use of this part on emissions controlled vehicles may be in violation of federal or local law! ASMC, LTD. is not responsible for any damages as a result of misuse of this part. Check your local laws prior to use or installation.

SPECIAL NOTES:

- The use of a factory service manual is highly recommended. These can be purchased online at <http://techinfo.subaru.com>.
- The use of a penetrating oil will greatly reduce the chances of galling threads on bolts as they are removed.
- We highly recommend the use of anti-seize on threads of all bolts, when reassembling.
- We highly recommend the use of OEM gaskets on all connections, not aftermarket gaskets.
- **SPECIAL NOTES ABOUT EXHAUST WRAP:** Exhaust wrap placed on headers will help contain extreme heat in header and away from important engine parts. The down side is long-term durability. PERRIN will not warranty parts with header wrap installed. If header wrap is installed, be sure to paint headers with special paint provided by header wrap manufacturer. This will keep oil and other flammable fluids from absorbing into wrap and causing a fire.

Parts Included with the PERRIN STI HEADER:

- (1) PERRIN STI Header

Removing OEM Exhaust Manifold

1. Raise front of vehicle onto jackstands, making sure to use blocks behind the back wheels. Never support car solely by hydraulic jack.
2. Remove front O2 sensor from exhaust manifold. Note: Take great care to not damage sensor while removing.
3. Remove both drivers side and passenger side exhaust manifold heat shields
4. Remove (6) 14mm nuts holding manifold to head, replace any nuts or studs that were galled during removal.
5. Remove (2) through bolts and nuts connecting manifold to uppipe. Replace any bolts or nuts galled during removal.
6. Carefully remove complete manifold from car in one piece.

Installing PERRIN Equal Length Header

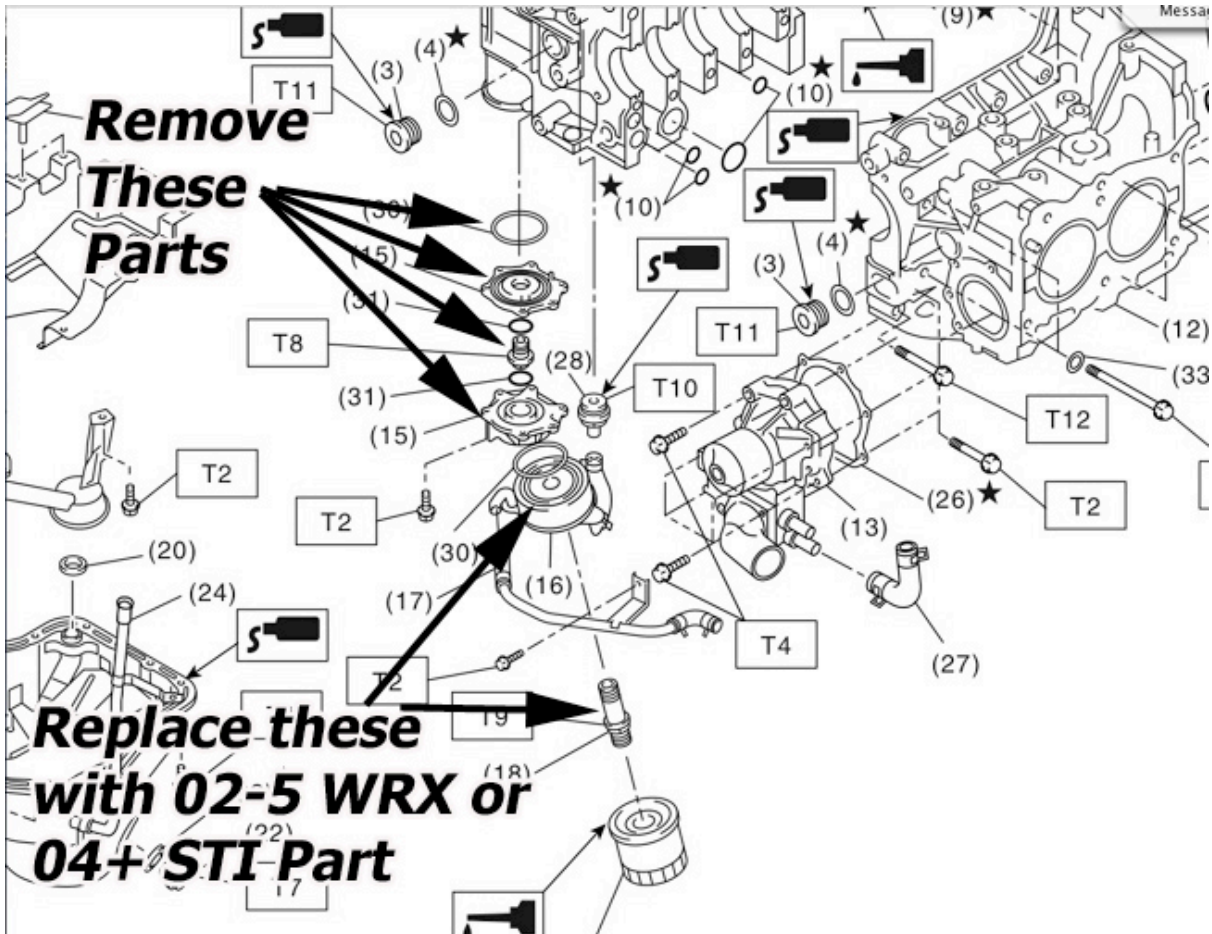
1. Place new OEM gaskets on studs on head. They will stay put if you install them slightly at an angle.
2. Place header onto motor and loosely secure with one nut on each side of motor. Its normal to have to lightly tap header onto studs on heads.
3. Place OEM gaskets between uppipe and header, and loosely installed OEM bolts and nuts.
4. The header flange that mates to the uppipe should fit very flat to the uppipe. Due to different turbos, and installation methods some times this may not always line up perfect. Its critical for both the life of the uppipe and the header that these flanges sit flat. If this is the case, remove downpipe and loosen the (2) nuts on brackets connected to uppipe, then proceed to next step.
5. Snug header to uppipe bolts and nuts. Install and snug remaining nuts connecting header to heads.
6. Torque uppipe to header bolts to 50-55ft-lbs, then tighten all nuts holding header to head to 50-55ft-lbs.
7. Reinstall O2 sensor back into header, making sure to use anti-seize on threads.
8. If turbo was loosened and downpipe was removed, tighten (5) uppipe nuts, and reinstall downpipe.
9. Start car and listen for exhaust leaks.
10. If none are present, proceed to test drive car.

2.0l Turbo Motor Special Instructions

All 2.5l turbo motors have an oil pan that has a relief to allow for the PERRIN Equal length header to be installed. Older 2.0l turbo motors DO NOT have this relief, and the PERRIN header will not fit! Simply purchase the 2.5l turbo oil pan and oil pickup from your Subaru dealer, and install.

2006-2007 WRX Special Instructions

The 2006-2007 WRX 2.5L is slightly different than all other 2.5L turbo motors. The oil cooler assembly gets in the way of the header. On these models it is necessary to replace the oil cooler assembly with one from any WRX or STI made from 2002 to 2005. These parts are available at your Subaru Dealer. The oil cooler and cooler bracket on the 2006-2007 WRX get completely removed until the block is visible. The oil cooler and oil cooler bolt need to be replaced with one from a 2002-2005 WRX or STI.



FOR QUESTIONS & COMMENTS PLEASE CONTACT TECH@PERRINPERFORMANCE.COM

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