

PERRIN

POSITIVE STEERING RESPONSE SYSTEM

Offset and Zero-Offset

2002+Legacy, 2008+WRX/STI

09282010

Thank you for purchasing the PERRIN Positive Steering Response System (P.S.R.S.) Installation of these components should **only** be performed by persons experienced in the installation and proper operation of Subaru suspension systems. PERRIN PERFORMANCE IS NOT RESPONSIBLE FOR DAMAGE TO THE VEHICLE, ITS COMPONENTS (E.G. TIRES), OR TO ANY OTHER PROPERTY, OR PERSONS.

SPECIAL NOTES ABOUT THIS PRODUCT: Many modifications (and combinations of modifications) are not recommended and may NOT be permitted in your country, state or other form of local government. Consult your owner's manual, instructions for each product and all laws before undertaking these modifications. The owner and user are solely responsible for the legality and safety of the vehicle you modify using these components! ALTA and PERRIN Performance are not responsible for any physical or financial damages as result of proper or improper installation, usage or ownership of this product.

Use of this suspension product will result in a change in the handling characteristics of your vehicle. As with ANY vehicle, extreme care must be taken to prevent loss of control or roll-over during all driving maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death! Once installed do NOT drive the vehicle unless you are familiar with its unique handling characteristic and confident in your ability to maintain control under all driving conditions.

Questions? Please contact us prior to proceeding with installation or use. Contact information is located on this page.

SPECIAL NOTES:

- The use of a factory service manual is highly recommended. These can be purchased or downloaded online at <http://techinfo.subaru.com>.
- <http://subaru.spx.com> is a place to buy OEM tools.
- It is critical that all bolts and nuts are tightened, improper tightening can cause serious injury or death.
- A hydraulic press is needed to remove and install PSRS.
- We highly recommend using permanent threadlocker on body where it gets pressed in. The knurling on side of body is designed to be used with threadlocker.
- When installing Offset PSRS, a four wheel alignment is required upon completion of installation. The vehicle must be towed to alignment shop. If car cannot be towed, take extreme care while driving to alignment shop. Have your alignment scheduled ahead of time.
- When installing the ZERO offset PSRS, a four wheel alignment is not necessary, but a good idea if car hasn't been aligned recently.

Parts Included with the PERRIN PSRS:

- (2) PSRS Bodies
- (2) PSRS Long Spacers
- (2) PSRS Short Spacers

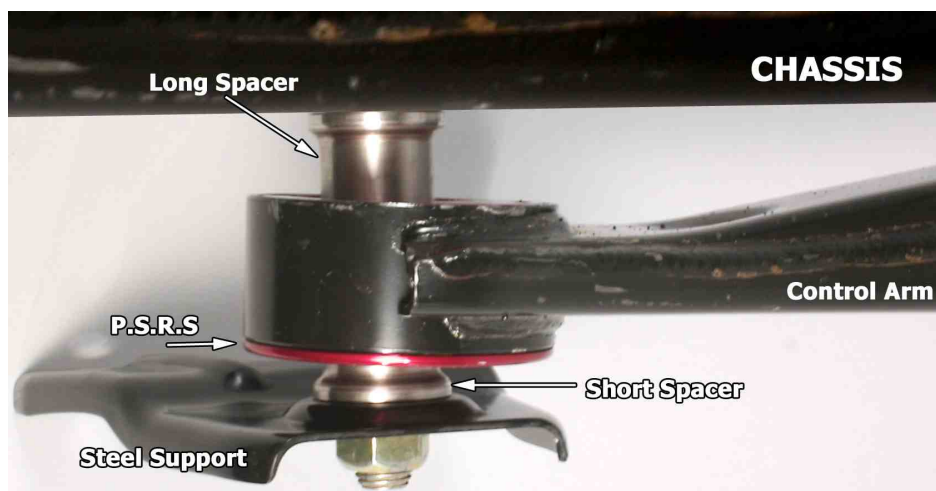
Removal and Installation:

- 1) Park car on a smooth level surface. Using suitable commercial vehicle hoist or floor jack, raise vehicle onto jack stands. NEVER WORK UNDER A VEHICLE SOLELY SUPPORTED BY A JACK! DEATH OR INJURY MAY OCCUR.
- 2) Using factory service manual for reference remove both front transverse links from vehicle.



Legacy GT/08 WRX front control arm shown above. STI and LGT Spec-B are slightly different as they are aluminum construction. NOTE: Above arm shows Offset PSRS being installed in the proper orientation. If installing ZERO-PSRS, the orientation doesn't matter.

- 3) Prepare for installation of the PERRIN P.S.R.S. transverse link rear mount (See Fig1) Note: Install one side at a time making sure to use alignment marks on P.S.R.S. **NOTE: If installing ZERO PSRS, the orientation of body is not important as this does not affect alignment.**
 - a. Remove OEM rubber mount from transverse link using a hydraulic press. Clean area P.S.R.S. will be pressed into using brake cleaner.
 - b. Align P.S.R.S. so when control arm is installed, logo is readable from underneath car. See fig 1. **NOTE: This step is important to do if installing ZERO-PSRS.**
 - c. Before pressing into control arm, rotate P.S.R.S. until OUT is facing outside of car, and IN facing toward the transmission. The AXIS will align with front bushing, and P.S.R.S. This line is also parallel to length of car. **NOTE: If installing ZERO-PSRS, the orientation of PSRS is not important.**
 - d. This is the time to put permanent threadlocker around body of P.S.R.S.
 - e. Place P.S.R.S. mount over transverse link, and using a hydraulic press, press P.S.R.S. into transverse link until flange on P.S.R.S. is bottomed out on transverse link.
 - f. Verify P.S.R.S. is aligned correctly with chassis before reinstallation of transverse link. **NOTE: Not important if installing ZERO-PSRS.**



This shot is from the side of the control arm/PSRS. NOTE: Notice how flange is on bottom side of control arm.

- 4) Before installing P.S.R.S. onto chassis, slide long spacer (large end toward chassis) onto large bolt on chassis.
- 5) Install transverse link into subframe, drive axle hub, and over large bolt, making sure large spacer is between PSRS and chassis.
- 6) Install small spacer and small black lower support brace in one step. Make sure to reuse factory bolts and nut when installing.
- 7) Torque all bolts and nuts to factory specs.
- 8) Reinstall front endlinks to control arms. and repeat process on other side of car

- 9) Install wheels.
- 10) Lower vehicle from hoist or jack stands.
- 11) Take for short test drive. If abnormal noises are noted, check torque specs on all nuts and bolts.
- 12) Immediately drive (preferably tow) to professional alignment shop. Have vehicle professionally aligned to factory or desired specifications only as recommended by a qualified professional. **NOTE: If installing ZERO-PSRS it is not important to go directly to an alignment shop.**

NOTE: SOME MINOR INCREASE IN ROAD NOISE MAY BE PRESENT AFTER INSTALLATION. THIS IS A NORMAL BY-PRODUCT OF THE P.S.R.S. HOWEVER, CLUNKING, SNAPPING OR POPPING NOISES ARE NOT CONSIDERED NORMAL AND INSPECTION IS REQUIRED PRIOR TO ADDITIONAL ROAD TESTING OR DELIVERY TO CUSTOMER!

Suggested Parts To Compliment your PSRS

- **Front and rear PERRIN swaybars**
- **Front and rear PERRIN endlinks**

For questions & comments please contact

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AIM contact ALTAPERRINSALES