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## **Positive Steering Response System** **95+Impreza/2002-2005 WRX**

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. The Subaru factory service manual is required for proper torque and alignment specifications.

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>
- It is critical that all bolts and nuts are tightened, improper tightening can cause serious injury or death.
- 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.

### **Parts Included with the PERRIN WRX PSRS:**

- (2) PSRS Bodies w/Grease Fittings
- (4) Black Delrin Bushings
- (2) SS Short Center Pivots
- (2) Rectangle Spacer Blocks
- (2) .600" Round Spacers
- (2) .430" Round Spacers
- (2) .360" Round Spacers
- (2) .190" Round Spacers
- (4) M10x80mm Full thread bolt
- (4) 7/16" Washers
- (1) Energy Suspension Grease Packet

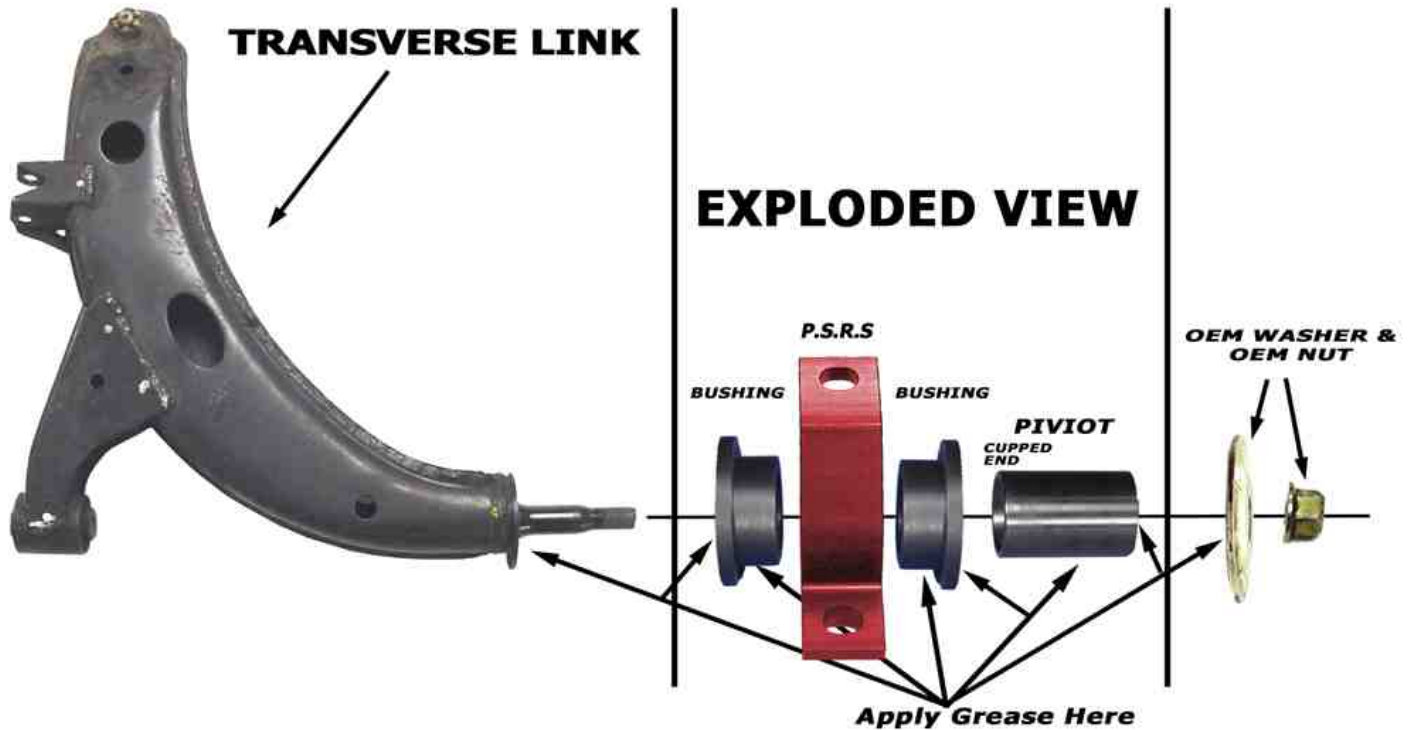
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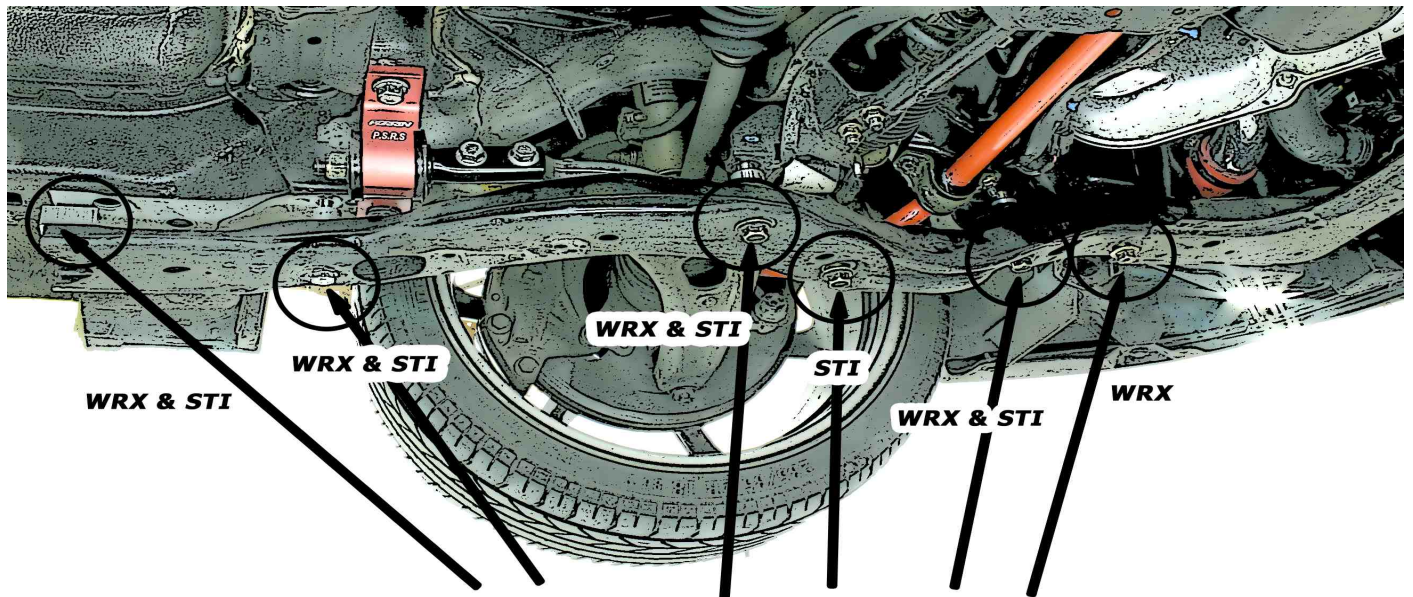
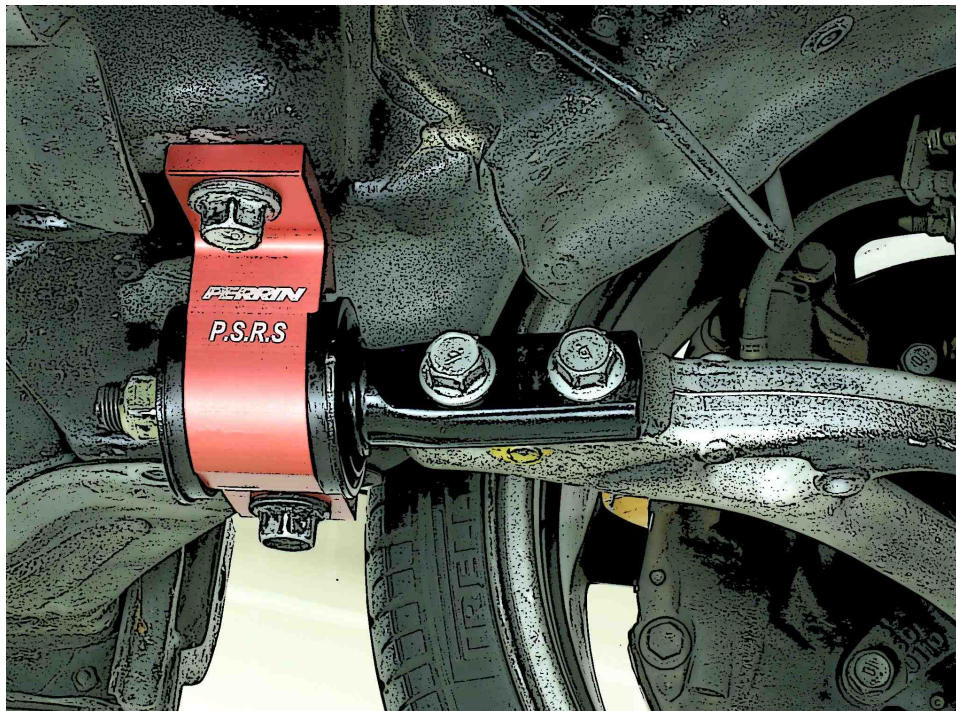
### **Removal and Installation:**

- 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 sub-frame brace and both front transverse links from vehicle. (Note: Early Model Legacy and Early Subaru models may not have a sub-frame brace. Additional pieces in the P.S.R.S. kit may not be used for some applications. STI owners don't need to remove the complete transverse link. The rear transverse pivot is removable by (2) 17mm bolts on each side.
- 3) Preparation and installation of the PERRIN P.S.R.S. transverse link rear mount (See Fig1) Install one side at a time making sure to use correctly marked P.S.R.S.:
  - a. Remove OEM mount from transverse link making sure to remove all rubber bumpers. Keep large washers as they will be reused. Make sure to clean off all dirt from large washers as this becomes a bearing type surface.
  - b. Assemble P.S.R.S. as shown in Fig 1. Grease surfaces of flat washer that come in contact with P.S.R.S. bushings, and any other moving parts (Fig 1)
  - c. P.S.R.S are orientated so PERRIN logos face to inside of car and are readable from underneath. (L & R stickers indicate).
  - d. Place P.S.R.S. mount over transverse link, making sure that cupped end of pivot faces front of car. STI owners need to leave larger washer on transverse pivot, all other transverse links have this washer welded to transverse link.
  - e. Reinstall large washer used on rear of factory mount.

- f. Secure both mounts using locking nut removed in step 3) above. Tighten to factory torque specs. **NOTE: This procedure needs to be done BEFORE P.S.R.S. is bolted to the chassis. Failure to do this in order will cause permanent damage to the P.S.R.S. This damage is not covered under warranty.**
- 4) Re-install transverse link (or transverse pivot) with new PERRIN P.S.R.S. into vehicle. **Note: P.S.R.S. should have been bolted properly to transverse link and torqued in step above. Also some rotation of the P.S.R.S. may be needed to align mounts to chassis. When installing transverse link, if the slots in the P.S.R.S. body don't line up with holes in chassis, the P.S.R.S. may be installed on the wrong side of the car. (Fig 2)**
- 5) Legacy and other Subaru models that do not have a sub-frame brace can skip to step #9.
- 6) Re-install sub-frame brace removed in step 2) by first attaching the (2) 12mm bolts into radiator support.
- 7) Discard the (4) OEM 14mm bolts removed in step 2) above. Attach rearmost sub-frame mount into body placing the square spacer between the body and the sub-frame. Loosely install (2) supplied bolts through sub-frame brace and square block.
- 8) Place the next thickest spacer between the sub-frame and the body at the hole just forward of the square spacer, and use (2) supplied bolts to secure. Continue placing progressively thinner spacers between the frame and body until you run out, while loosely re-installing the OEM bolts working from the back and ending in the front. **NOTE: Spacers will not continue completely to the front of the vehicle. (Fig 3)**
- 9) See factory service manual for appropriate torque specifications and torque sequences for all suspension bolts.
- 10) Lower vehicle from hoist or jack stands.
- 11) Have vehicle professionally aligned to factory or desired specifications only as recommended by a qualified professional.
- 12) Road test vehicle.
- 13) The supplied grease fitting can be used to lube PSRS on car. This may be necessary in areas were roads are salted or corrosion is very high.

**NOTE: SOME SLIGHT ADDITIONAL 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!**





## **Subframe Spacer Placememnt**

### **COMMON QUESTIONS:**

1. Will this fit with the PERRIN Cross lock brace? Yes, and you do not need to use the supplied spacers included with the kit.

### **PERRIN Performance Highly Recommends These Complimentary Products:**

- PERRIN Front and Rear swaybars 22mm and 25mm
- PERRIN Cross-lock sub frame brace.
- PERRIN Sub frame lock down kit.

**For questions & comments please contact**

**[Tech@PERRINperformance.com](mailto:Tech@PERRINperformance.com)**

**503-693-1702**

**AIM contact ALTAPERRINSALES**