

# PERRIN

## PERFORMANCE

040411

### **EVO 7-10 Positive Steering Response System**

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 Mitsubishi suspension systems. The Mitsubishi 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.
- 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.
- When installing the 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.
- 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 EVO PSRS:**

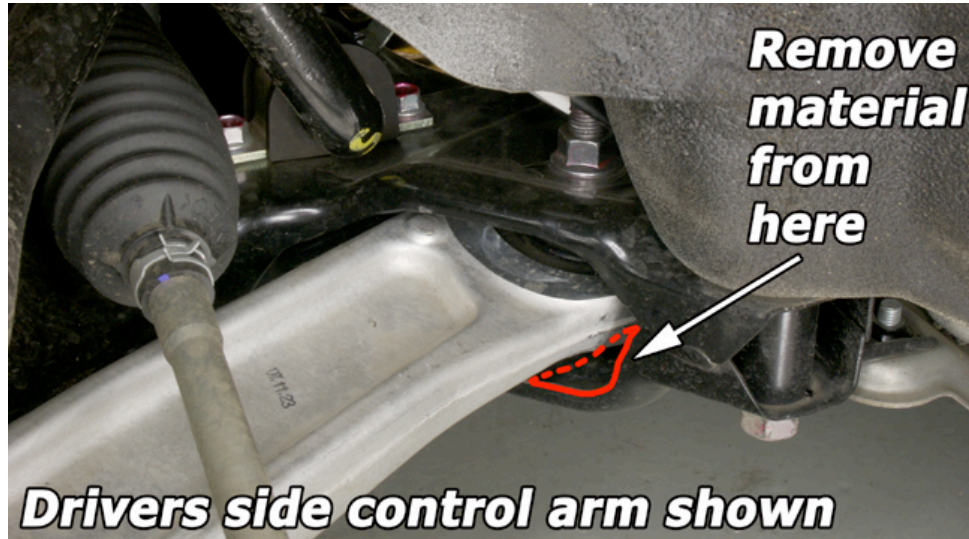
- (2) PERRIN EVO PSRS Bodies
- (2) Tall SS spacers
- (2) Medium SS spacers
- (2) Short SS spacers

#### **EVO PSRS INSTRUCTIONS:**

- 1) Raise vehicle onto jack stands or use commercial vehicle hoist. NOTE: NEVER WORK ON A VEHICLE SOLELY SUPPORTED BY A JACK!
- 2) Starting on one side of the vehicle, loosen and remove 14mm bolt holding lower ball joint to steering knuckle. Remove (2) 14mm bolts securing sway bar mount to control arm. Cars with Aero package need to have brake duct diverter removed also.
- 3) Loosen and remove 17mm bolt and nut securing rear of control arm to sub frame. Remove (2) bolts holding endlink mount to arm.
- 4) Loosen and remove 17mm bolt securing front control arm bushing to sub frame and remove control arm from car. It helps to have one more person to hold the steering knuckle out of the way as it is removed.
- 5) With control arm removed, using factory Mitsubishi tool, or using proper sized die, press OEM bushing out of control arm.
- 6) Install PERRIN PSRS from bottom of control arm (So logo is readable from bottom) and make sure to line up the "axis" lines with the front control arm bushings. **NOTE: If installing ZERO offset PSRS, the orientation of PSRS doesn't matter.**



- 7) With a proper press, press PSRS into control arm making sure not to press on bearing part of PSRS.
- 8) Before installing arm back into car, test fit control arm into chassis. EVO 9 customers will have tight clearances between control arm and body. Using a hammer and a punch slightly dent this area to add clearance. . **NOTE: If installing ZERO offset, no denting of chassis is needed.** EVO 10 customers will have to remove some material on sub frame. Using a die grind tool to remove the material as shown below. **NOTE: If installing ZERO offset PSRS, no grinding away of material is needed.**



**EVO 10 Shown above, EVO 8 and 9 customers do not have to remove material from sub frame but rather from chassis or control arm.**

- 9) **EVO 9 installation:** Install SS bushings into PSRS making sure to put the medium spacer on bottom and taller spacer on top. Always make sure and use spacers that fit inside of bearing on bearing faces. Do not use the spacer that is flat (short spacer) against the bearing. While holding spacers install control arm back into car. At this time, decide weather to install short SS spacer on bottom (ZERO Anti-lift) or top (Added Anti-lift).
- 10) **EVO 10 installation:** Decide weather to install medium SS spacer on top (ZERO Anti-lift) or bottom (Added Anti-lift). Always make sure and use spacers that fit inside of bearing on bearing faces. Do not use the spacer that is flat (short spacer). Install SS spacers into PSRS and carefully slide control arm and bushings into chassis opening.
- 11) Loosely install bolt through front control arm bushing, and then bolt through rear. Using a prybar will help to align arm with bolt holes in sub frame.
- 12) Tighten both 17mm bolts to 81-ft-lbs, and tighten 14mm bolt securing steering knuckle to ball joint to 40ft-lbs.
- 13) Install and tighten endlink bracket bolts to 30ft-lbs each.
- 14) Repeat steps 2) through 12) on opposite side.
- 15) Double check tightness of all hardware and connections.
- 16) Lower vehicle from jack stands. Take car for test drive and listen for noises.
- 17) Test-drive vehicle carefully. Listen for any new noises from rear suspension. If noises are noted raise vehicle again and check installation
- 18) With installation complete, immediately take car to alignment shop if Offset PSRS was installed.

**For questions & comments please contact [TECH@PERRINPERFORMANCE.COM](mailto:TECH@PERRINPERFORMANCE.COM)  
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AIM contact ALTAPERRINSALES**