

PERRIN

060309

PERRIN EVO 7-10 Offset and Zero Offset 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:

- 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. 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 EVO PSRS:

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

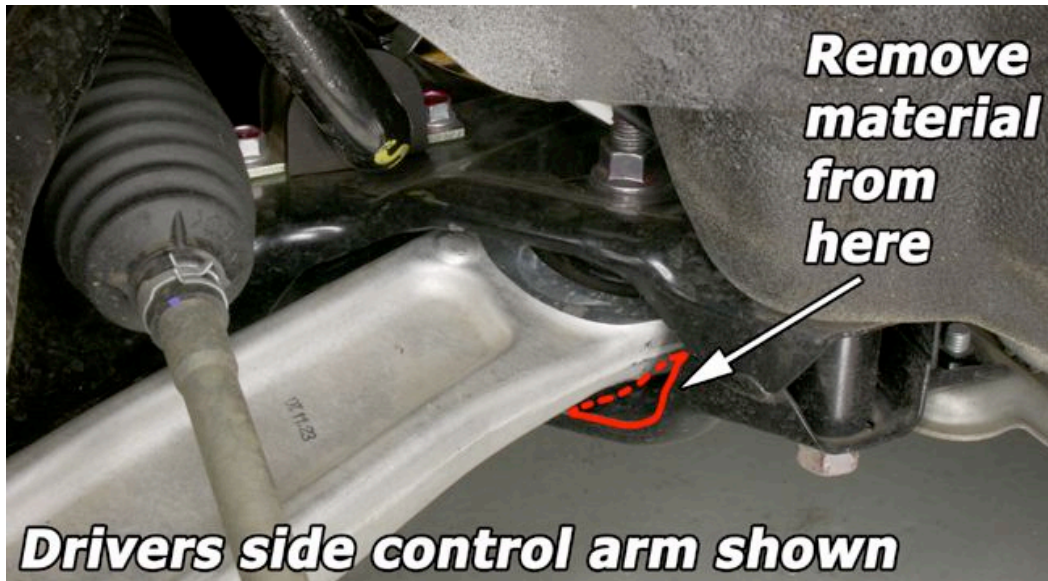
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EVO PSRS INSTRUCTIONS:

- 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. 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). Install SS bushings 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
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