

## TRW Input Shaft Seal Replacement for TAS Gears.

1. Disconnect the return line from the steering. Plug off the return line and cap the return port of the gear with a high pressure fitting.
2. Remove the steering column from the input shaft of the steering gear.
3. Remove the dirt and water seal from the steering gear.
4. Wipe out the grease to remove the spiral retaining ring. Insert a screwdriver into the notch formed in the end of the ring. Be careful not to scratch the bore with the screwdriver.
5. Slip the steering column back onto the input shaft and install the pinch bolt, do not tighten.
6. Wrap or tie a shop towel around the input shaft area and place a drip pan under the vehicle to catch the oil.
7. Check the fluid level and add as necessary.
8. Momentarily turn the starter without starting the engine (quickly turn off the engine if it starts).
9. Remove the shop towel, check to be sure the seal was forced out.
10. Remove the steering column and remove the input shaft seal.
11. Check for and remove any seal fragments left in the seal area.
12. Apply clean grease on the inside diameter of the new input shaft seal.
13. With the small diameter of the input shaft seal installer against the seal, tap the tool until the tool shoulder is squarely against the valve housing (seal installer tool will have to be purchased separately).  
CAUTION: If a socket is used to install the seal you will not be able to control the depth possibly causing a leak.
14. Insert the new retaining ring into the groove.
15. Apply grease around the input shaft seal and apply grease to the correct size dirt and water seal. Install the seal over the input shaft and seat it against the valve housing.
16. Reconnect the steering column to the input shaft and tighten the pinch bolt to the proper torque.
17. Remove return line plug and cap and reconnect the return line to the steering gear.
18. Check steering fluid level and air bleed the steering system.