RELIEF PLUNGER ADJUSTMENT PROCEDURE

For TRW-HF, HFB, Sheppard 292, 392, 492, 592, M-series with a part number ending in 1.

Adjusting the relief valve plungers is critical to the operation of your complete steering system. The relief plunger adjustment is provided to automatically reduce the steering pressure when the road wheels have reached their limits of turn. This keeps the supply pump from operating at maximum relief pressure when the road wheels are at their steering limits. Systems temperatures are therefore reduced, and high stress loads on the mechanical components of the steering system are relieved.

Adjust the relief valve plunger as follows:

1. Make sure that the axle stops are present and set for the proper turning as per manufacturer's specifications.
2. Start the engine and allow it to operate at idle speed.
3. With full weight of the vehicle on all wheels, turn the steering wheel in one direction until a high pressure hiss is heard or the axle stops contact.
4. Turn the relief valve plunger located on both ends of gear in or out until the high-pressure hiss is heard when there is 1/8 to 3/16 inch clearance between the axle stops.
5. Repeat this procedure for the opposite direction of steer, and adjust the relief valve plunger on the opposite end of the steering gear.

Turning the plungers in too far will trip the relief before a full turn is realized. Turning the plungers out too far will not allow the systems to relieve, and will therefore cause damage. Do not turn the slotted plungers out beyond flush with the plunger boss or a leak will occur. Axle stops should only be adjusted in accordance with the vehicle manufacturer's specifications.

After the relief valve plunger adjustment, always check to ensure that the road wheels and tires have adequate clearance between suspension, brake and frame components.