

TRW®-Style Power Steering Gear

Setting Procedure for Poppets

Follow this simple pressure unloading valve (or poppet) setting procedure immediately after installing your steering gear to ensure maximum turning capability and reduced pressure in full right and left turns.

- Follow your shop's safety guidelines. Chock the vehicle and wear personal protective gear.
- Follow the vehicle manufacturer's installation and service information.
- Ensure axle stops and all steering linkage are set according to vehicle manufacturer's specifications and the pitman arm is correctly aligned on the output shaft.
- With the wheels chocked, the vehicle unloaded and engine idling, turn the steering wheel in one direction until contact is made with the axle stop. Do not apply more than 40 lb rim pull (178 N) on a 20 in. (508 mm) diameter steering wheel during this procedure.
- Remove the wheel chocks and allow the vehicle to roll forward, or jack up the vehicle at the front axle, if you require excess rim pull effort.
- To set the opposite poppet, follow the same procedure while turning the steering wheel in the other direction. You have now positioned the poppets to trip and reduce pressure correctly.

For additional information or questions about this procedure, please contact your local account manager or technical support team.



These instructions are provided to help you repair commercial vehicles more efficiently. This document should not replace your Service manuals; you should use them together. These materials are intended for use by properly trained, professional mechanics, adhering to the safety instructions directed by the vehicle and component manufacturer. You should not try to diagnose or repair steering problems unless you have been trained, and have the right equipment, tools and know-how to perform the work correctly and safely.