

Steering Valve Drift Test



T103314B-UN: Steering Valve Drift Test

-: Specifications

SPECIFICATIONS	
Oil Temperature	65 ± 6°C (150 ± 10°F)
Initial Steering Cylinder Position Distance	254 mm (10 inch)
Apply Power to Maintain Reading Pressure	6895 kPa (7.0 bar) (1000 psi)
Test Time	30 seconds
Maximum Steering Cylinder Drift Speed	20 mm/min (8 in./min.)

-: Essential Tools

ESSENTIAL TOOLS
38H1032 Tee (-10 M x -10 F x -10 M ORFS) (Parker No. 10R6LO-S)
JTO3458 Adaptor (7/16-20 M x -10 F ORFS)

-: Service Equipment and Tools

SERVICE EQUIPMENT AND TOOLS
Gauge 20 000 kPa (200 bar) (3000 psi)
Monitor Display Unit

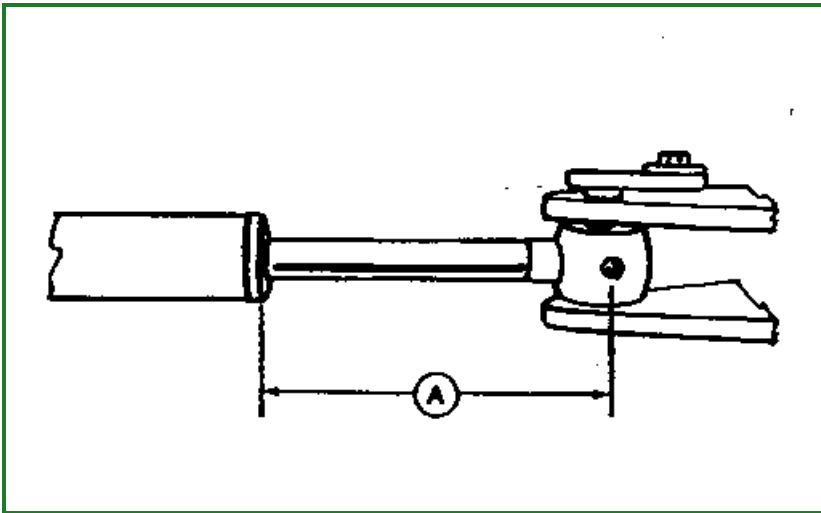
1. Install frame locking bar. Install tee in head end of steering cylinder and attach gauge. Remove the locking bar.
2. Heat hydraulic oil to specifications. See [Hydraulic Oil Warm-Up Procedure](#) in this group. Steer machine back and forth to make sure steering cylinders contain heated oil.

Use the monitor or SERVICE ADVISOR™ application to read engine rpm and hydraulic oil temperature. See [Display Monitor Hydraulic Oil Temperature](#). Or use SERVICE ADVISOR application Hydraulic System Test template. (See [SERVICE ADVISOR application Computer Connection \(S.N. —573732\)](#) or [\(S.N. 573733 —\)](#) in PDM kit instructions.)

Item	Measurement	Specification
Oil	Temperature	65 ± 6°C (150 ± 10°F)

3. Align machine so bucket corner is against a immovable object such as a loading dock. Engage park brake.

4.



T6569AE-UN: Adjust Steering Angle

LEGEND:

A - Dimension

Adjust steering angle to get measurement dimension (A) to equal 254 mm (10 inch) on cylinder with gauge on it

Item	Measurement	Specification
Initial Steering Cylinder Position	Distance	254 mm (10 inch)

5. Press MENU to get Accessory Mode (A), Press SELECT then press NEXT until (A 05) is displayed. Then Press SELECT to active Stopwatch function of Monitor.

6.

NOTE:

Do test with hands off of steering wheel if wheel rotates, then move wheel back and forth slightly to center wheel.

Release park brake. Put machine in 2nd gear forward and apply power to maintain specification pressure reading for 30 seconds.

Item	Measurement	Specification	Item	Measurement	Specification
Apply Power to Maintain Reading	Pressure	6895 kPa (7.0 bar) (1000 psi)	Test Time		30 seconds

7. Measure dimension (A) at end of test, subtract form original setting and compare to specifications.