

Steering Valve Leakage Test



PUC3101-UN: Steering Motor Leakage Test

Equipment:

Torque Wrench capable of reading 11.9 N·m (8.77 lb-ft)

(2) 13/16-16 MORFS plugs for 904 model / 11/16-16 MORFS plugs for other models

(2) 13/16-16 FORFS caps for 904 model / 11/16-16 FORFS caps for other models

1. Stop engine.
2. Disconnect hoses from steering cylinder. Close all openings using caps and two 13/16-16 MORFS plugs.
3. Start engine and run at slow idle.
4. Turn steering wheel to the right, with a constant torque of 11.9 N·m (105 lb-in.) for a period of 1 min.
5. Observe the number of rotations of the steering wheel that occur in the one minute time frame.
6. Turn steering wheel to the left, with a constant torque of 11.9 N·m (105 lb-in.) for a period of one minute.
7. Observe the number of rotations of the steering wheel that occur in the one minute time frame.

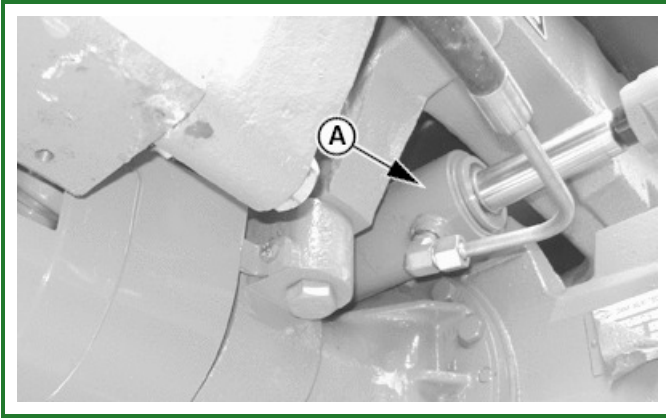
Item	Measurement	Specification
Engine Speed	Speed	825 ± 25 rpm
Steering Maximum Right Turn	Speed	5 rpm
Steering Maximum Left Turn	Speed	5 rpm

8. If maximum number of turns is more than specifications, repair or replacement of steering motor is indicated.

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Steering Cylinder Leakage Test



PUC2829-UN: Steering Cylinder

1. Turn steering wheel to full left to fully extend the cylinder.
2. Shut off engine.
3. Disconnect hydraulic hose from right-hand side of steering cylinder (A) (extended end).
4. Start engine and run at high idle.
5. Continue to turn steering wheel to the left.
6. Watch for any flow of oil out of cylinder at fitting.
7. Repeat steps 1-6 for right-turn and left-hand side of cylinder.

Specification

If any flow of oil out of the cylinder occurred, there is an internal leak. Repair or replace cylinder.

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