

UNIVERSAL JOINT

POWER ASSISTED SYSTEM (POWER STEERING)

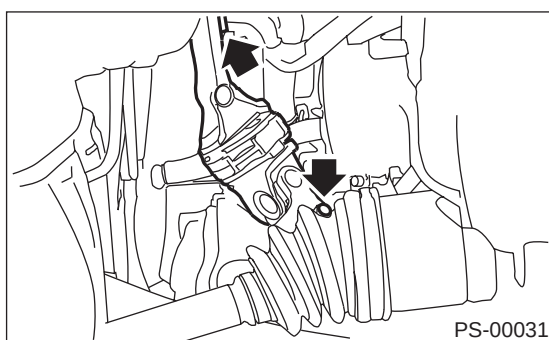
3. Universal Joint

A: REMOVAL

- 1) Set the vehicle on a lift.
- 2) Remove the steering wheel. <Ref. to PS-18, REMOVAL, Steering Wheel.>
- 3) Lift-up the vehicle.
- 4) Remove universal joint bolts and then remove universal joint.

CAUTION:

Scribe alignment marks on universal joint so that it can be reassembled at the original serration.



- 3) Align center of roll connector. <Ref. to AB-20, ADJUSTMENT, Roll Connector.>

CAUTION:

Ensure that front wheel are set straight forward direction.

- 4) Install steering wheel and airbag module. <Ref. to PS-18, INSTALLATION, Steering Wheel.>

WARNING:

Always refer to "Airbag System" before performing airbag module service (if so equipped). <Ref. to AB-13, INSPECTION, Driver's Airbag Module.> and <Ref. to AB-13, INSTALLATION, Driver's Airbag Module.>

B: INSTALLATION

- 1) Install universal joint.
 - (1) Align bolts hole on the long yoke side of universal joint with the cutout at the serrated section of shaft end, and insert universal joint.
 - (2) Align bolt hole on the short yoke side of universal joint with the cutout at the serrated section of gearbox assembly. Lower universal joint completely.
 - (3) Temporarily tighten bolt on the short yoke side. Raise universal joint to make sure the bolt is properly passing through the cutout at the serrated section.
 - (4) Tighten bolt on the long yoke, then that on the short yoke side.

Tightening torque:

24 N·m (2.4 kgf-m, 17.4 ft-lb)

CAUTION:

- Make sure that universal joint bolt is tightened through notch in shaft serration.
- Excessively large tightening torque of universal joint bolts may lead to heavy steering wheel operation.

Standard clearance between gearbox to DOJ:

Over 15 mm (0.59 in)

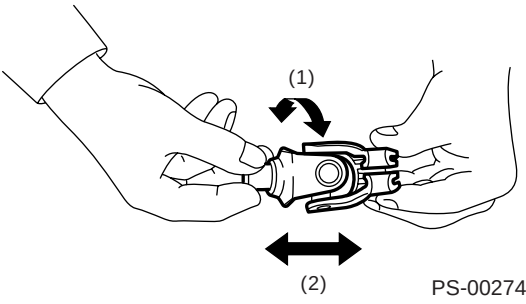
- 2) Lower the vehicle.

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C: INSPECTION

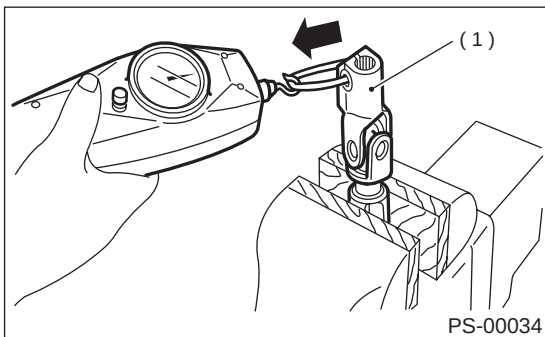
Clean the disassembled parts with a cloth, and check for wear, damage, or any other faults. If necessary, repair or replace faulty parts.

Inspection	Corrective action
(1) Free play (2) Swinging torque Yawing torque Looseness  PS-00274 Standard value of universal joint free play: 0 mm (0 in) Max. value of universal joint swinging torque: 0.3 N·m (0.03 kgf-m, 0.2 ft-lb)	Replace if faulty.

Measurement of folding torque of universal joint is as shown in the figures.

Service limit:

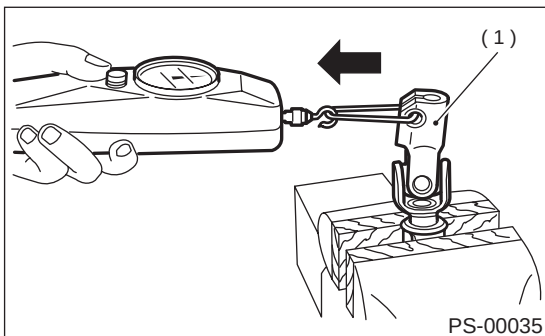
Maximum load; 5.49 N (0.56 kgf, 1.23 lb) or less



(1) Long yoke

Service limit:

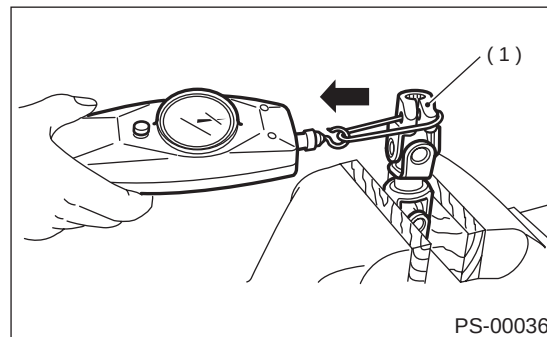
Maximum load; 5.49 N (0.56 kgf, 1.23 lb) or less



(1) Long yoke

Service limit:

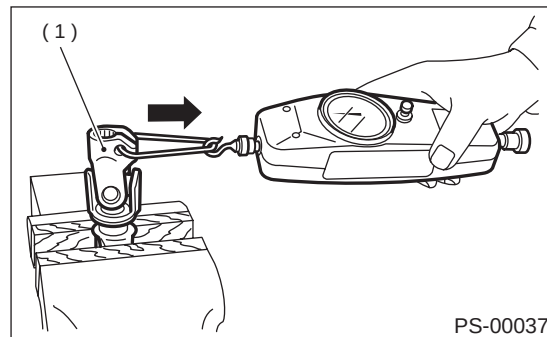
Maximum load; 8.43 N (0.86 kgf, 1.90 lb) or less



(1) Short yoke

Service limit:

Maximum load; 8.43 N (0.86 kgf, 1.90 lb) or less



(1) Short yoke

PS-20