



Reference Number	Bulletin 2023 02
Affected Product	Any machine that requires use of the extension adaptor fittings with part numbers 1U-5551 and 7S-5439, to charge, check or adjust the nitrogen pressure in hydraulic accumulators
Risks Identified	Potential failure of the extension adapter fittings with part numbers 1U-5551 or 7S-5439
Release Date	11 April 2023

Cease use of the charging extension adapter tools with part numbers 1U-5551 & 7S-5439 until further notice

Problem

A pressure rating discrepancy has been identified with extension adapters with the part numbers 1U-5551 and 7S-5439. A supplier of the extension adapters has listed these parts as having a 150 psi pressure rating, however, Caterpillar's specification for these extension adapters is 3000 psi. Additionally, another discrepancy was identified with the pressure unit conversion from psi to kPa shown in the description of these parts suggesting the rating is 435 kPa or 63 psi.

These extension adapters are used to facilitate servicing of the nitrogen charge in hydraulic accumulators. The extension adaptors are generally used to facilitate a connection of the nitrogen charging equipment to the accumulator where the accumulators are recessed or have difficult to access charging valves. The required nitrogen pressure varies between machines but generally require a nitrogen charge pressure above 200 psi, ranging up to 2000 psi.

This discrepancy is being urgently investigated.

Hastings Deering Australia is not aware of failures of the extension adapters that are already in the field, however the action below should be taken until the discrepancy is resolved.

Action Required

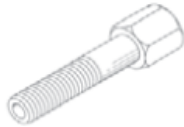
Until the discrepancy is resolved the extension adapters with part numbers 1U-5551 and 7S-5439 must not be used in applications that require the adapter to be subjected to working pressures above 63 psi for charging, checking or adjusting the nitrogen charge in an accumulator.



Valve Extension

Model Usage: Various Cat® Machines

Warranty: Caterpillar® Six Months



- Accessory to 175-5507 Nitrogen Charging Group needed to test and charge 785 and 789 Off-Highway Truck hydraulic nitrogen-charged steering system accumulators with recessed ports (ports now recessed due to accumulator design change that allows nitrogen bladder servicing)
- Can also be used to test and charge non-recessed accumulator ports

- Couples to chuck of 175-5507 Nitrogen Charging Group

- Maximum pressure: 435 kPa (3000 PSI)
- 0.305 in-32 thd (male and female)

References

- SEBF8383-05, RENR2535-10, SENR1463-07, SEPD0506

Part Number	Description
1U-5551	Valve Extension

Extension

Model Usage: Various Cat® Machines

Warranty: Caterpillar® Six Months



- Used with 175-5507 Nitrogen Charging Group to charge 9J-2019 steering accumulator on 777 trucks
- .482 in-26 thd (male and female)
- Service part: 8S-4344 Washer

- Maximum working pressure: 435 kPa (3000 PSI)

References

- RENR3826-08, SENR1934-08, SEBU6316-01, SEPD0683-00

Part Number	Description
7S-5439	Extension

This bulletin is to inform you of the recommendations of the supplier in respect of issues dealt with in the bulletin and should not be used as specific advice in respect of any particular events. Advice from a qualified repairer should be sought in respect of any particular events and Hastings Deering (Australia) Limited accepts no responsibility for any loss or damage occasioned by a party using this general bulletin.