

6.3 Cartridge

6.3.1 Cartridge O-ring and backup rings

After removing a cartridge, inspect the O-ring, backup rings, and valve bore for damage.

The O-ring (1) is put on the high pressure port side. The backup ring (2) is put on the lower pressure port side.

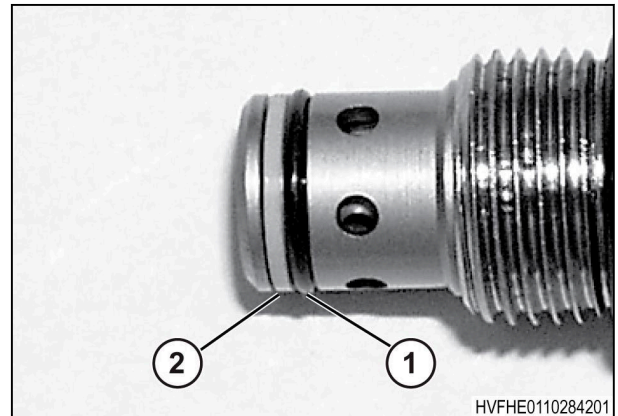


Fig. 16

For bi-directional applications, the O-ring (1) is put in between two backup rings (2).

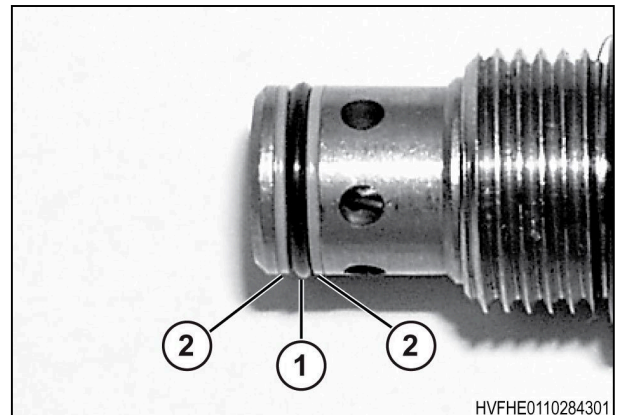


Fig. 17

6.3.2 Replace a cartridge

Procedure

1. Park the machine on a solid, level surface.
2. Stop the engine, apply the parking brake, and take the key with you.
3. Remove all hydraulic pressure in the system.
4. Disconnect the connector (1).
5. Remove the nut (2).
6. Remove the coil (3).

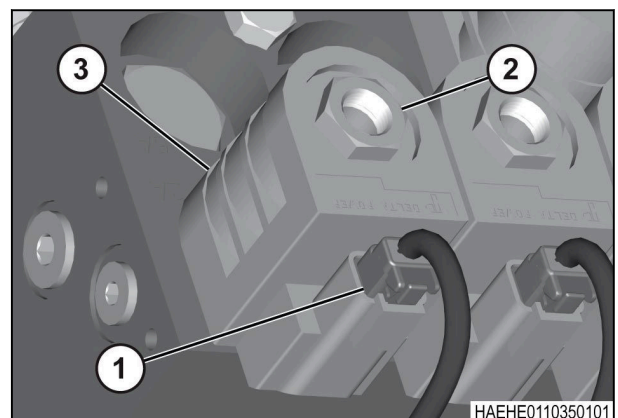


Fig. 18

- 7. Remove the cartridge (1).
- 8. Install the new cartridge. Tighten the cartridge to 47.5 Nm (35 lbf ft).

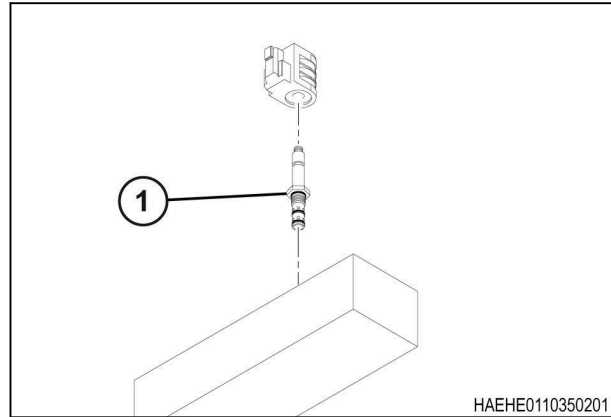


Fig. 19

- 9. Put the coil (3) into position.
- 10. Install the nut (2). Tighten the nut to 5.4 to 8.1 Nm (48 to 72 lbf inch).
- 11. Connect the connector (1).

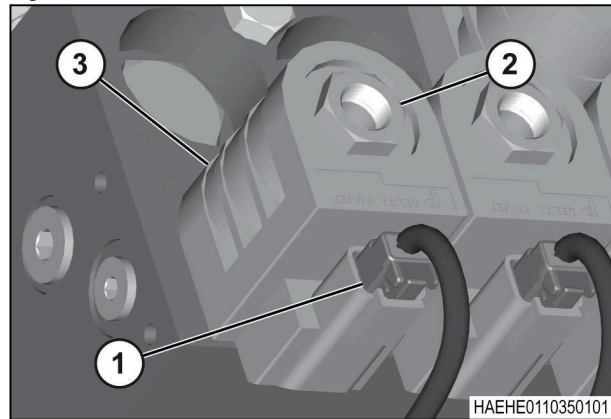


Fig. 20

6.3.3 Cartridge and coil torque values

Valve	Installation torque
Solenoid valve (SP10-20) header lift and lower	47 Nm (35 lbf ft) - cartridge 6 Nm (72 lbf inches) - coil nut
Solenoid valve (SP10-20M) reel speed	
Solenoid valve (SV08-26) reel lift	27 Nm (20 lbf ft) - cartridge 6 Nm (72 lbf inches) - coil nut
Solenoid valve (SV08-47A) auger swing reel fore and aft	
Solenoid valve (SV08-20) main solenoid reel lower chaff spreader	
Solenoid valve (SV10-20) feeder reverser	33 Nm (25 lbf ft) - cartridge 6 Nm (72 lbf inches) - coil nut