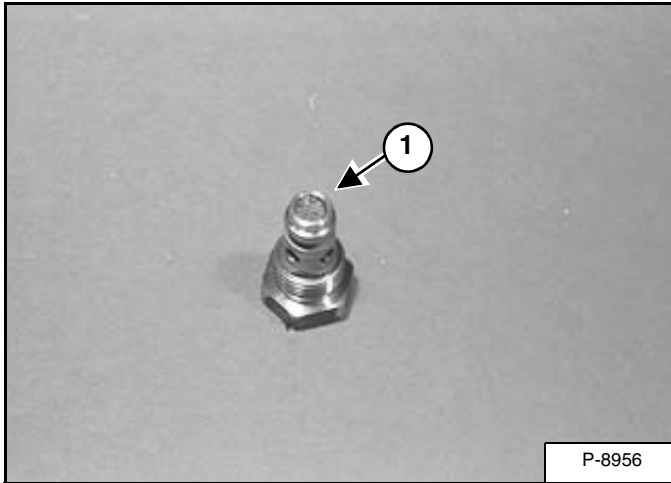


HYDRAULIC CONTROL VALVE (CONT'D)

BICS™ Valve Check Valve Removal And Installation (Cont'd)

Figure 20-40-40

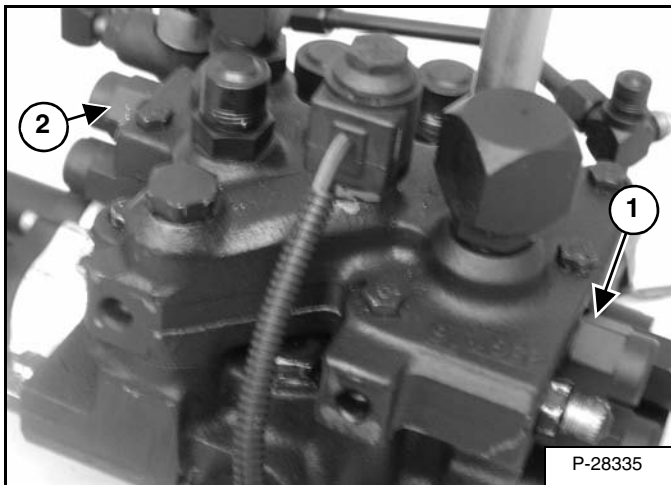


Clean and inspect the screen (Item 1) [Figure 20-40-40] on the end of the valve.

Reverse the removal procedure to install the BICS™ check valve.

BICS™ Valve Lock Valve Removal And Installation

Figure 20-40-41



There are two lock valves on the BICS™ valve, lift lock valve (Item 1) and tilt lock valve (Item 2) [Figure 20-40-41].

Figure 20-40-42

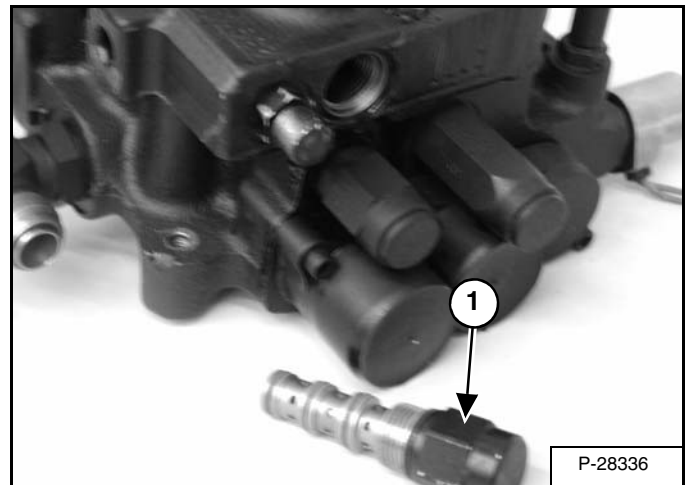
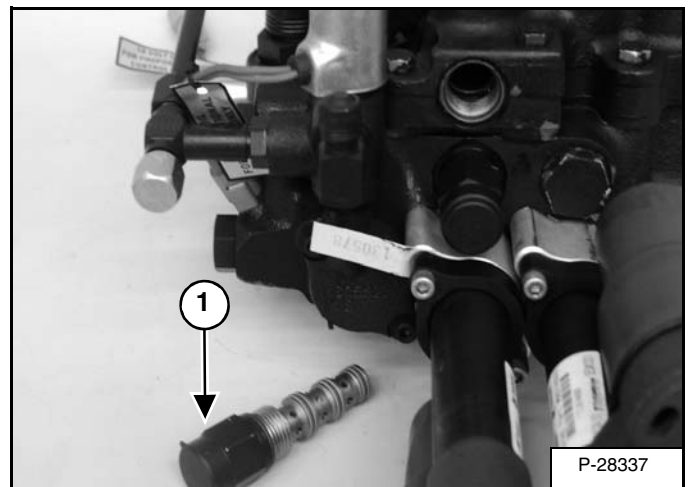


Figure 20-40-43



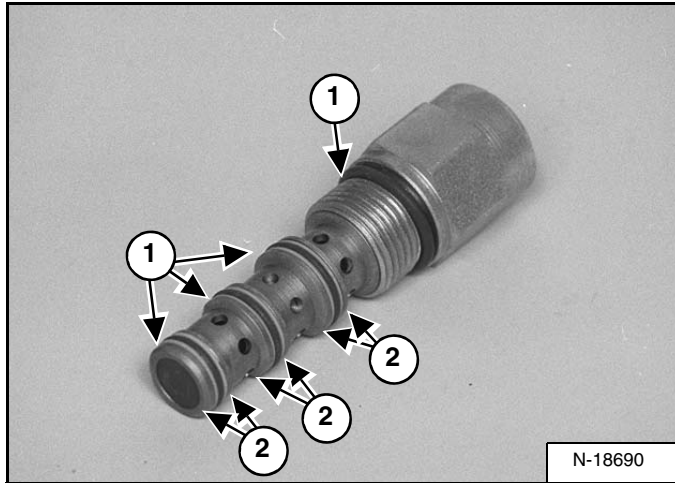
Loosen and remove the lock valve(s) (Item 1) [Figure 20-40-42] & [Figure 20-40-43] from the valve.

Installation: Tighten the lock valve(s) to 25 ft.-lb. (34 N•m) torque.

HYDRAULIC CONTROL VALVE (CONT'D)

BICS™ Valve Lock Valve Removal And Installation (Cont'd)

Figure 20-40-44



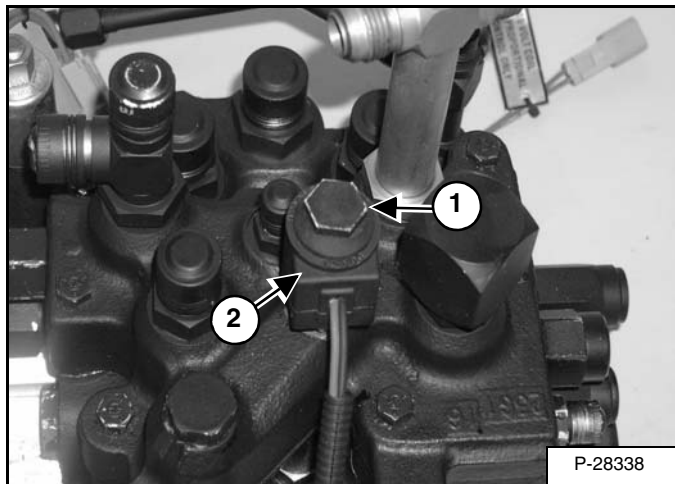
Remove the O-rings (Item 1) and back-up rings (Item 2) [Figure 20-40-44] from both the tilt and lift lock valves.

Install new O-rings (Item 1) and back-up rings (Item 2) [Figure 20-40-44] on the tilt and lift lock valves.

Reverse the removal procedure to install the lock valve.

BICS™ Valve Solenoid Removal And Installation

Figure 20-40-45

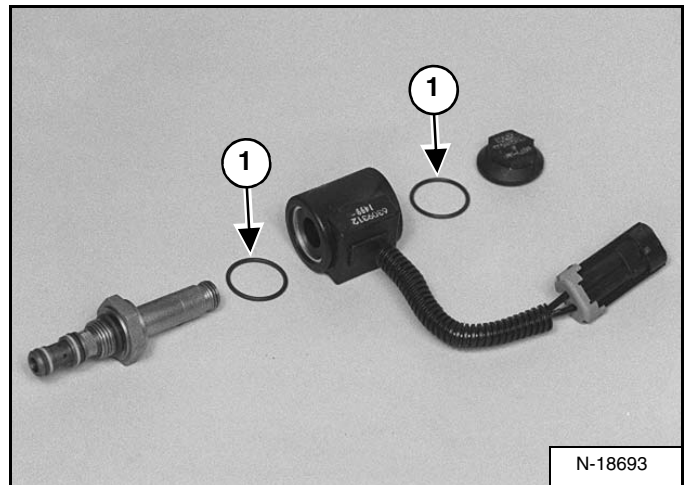


Remove the nut (Item 1) [Figure 20-40-45] from the solenoid cartridge.

Installation: Tighten the mounting nut to 53 in.-lb. (6 N•m) torque.

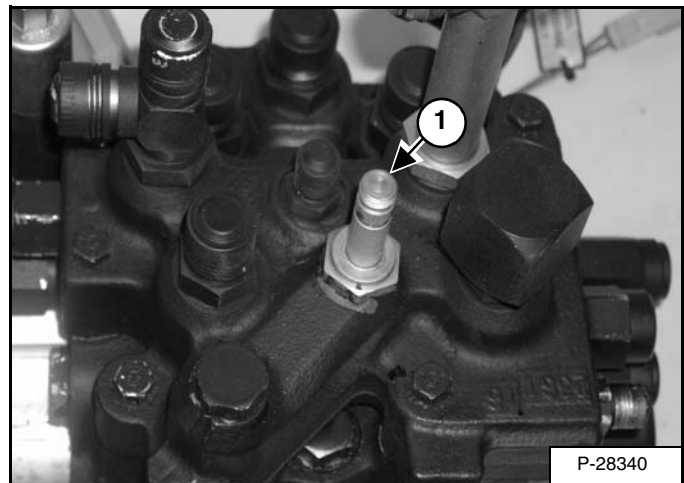
Remove the coil (Item 2) [Figure 20-40-45].

Figure 20-40-46



Remove the O-rings (Item 1) [Figure 20-40-46] from both ends of the coil.

Figure 20-40-47



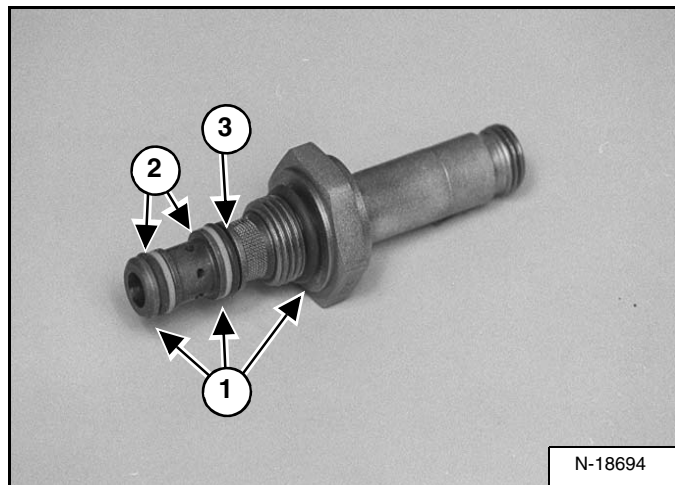
Remove the solenoid stem (Item 1) [Figure 20-40-47].

Installation: Tighten the stem to 20 ft.-lb. (27 N•m) torque.

HYDRAULIC CONTROL VALVE (CONT'D)

BICS™ Valve Solenoid Removal And Installation (Cont'd)

Figure 20-40-48



Remove the O-rings (Item 1) and back-up rings (Item 2) [Figure 20-40-48] from the stem.

Clean all parts in solvent and dry with compressed air.

Inspect all parts for wear and replace as needed.

NOTE: The screen (Item 3) [Figure 20-40-48] can be cleaned with solvent. If it is torn or worn it needs to be replaced

Use only new O-rings and apply oil to all o-rings and back-up rings before installation.

Install new O-rings (Item 1) [Figure 20-40-46] & [Figure 20-40-48] and new back-up rings (Item 2) [Figure 20-40-48] on the stem.

BICS™ Valve Solenoid Testing

Figure 20-40-49



Use an Ohm meter to measure coil resistance [Figure 20-40-49]

Coil wires do not have polarity.

Use only new O-rings and apply oil to all O-rings and back-up rings before installation.

Correct resistance for the auxiliary, lift, and tilt lock coils are 7 - 10 ohms

The other coils (BICS™, diverter, select valve) are 5 - 8 ohms.