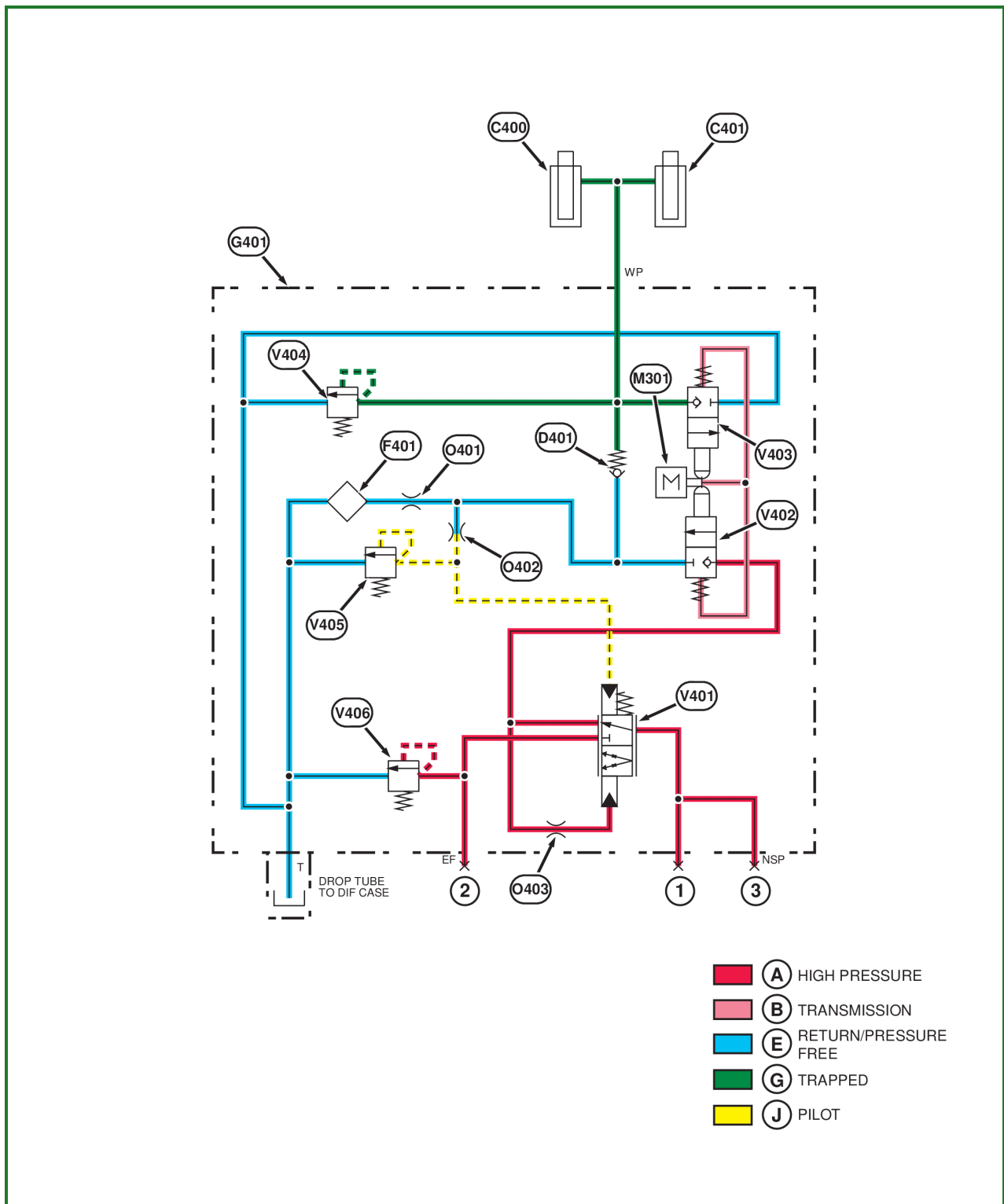


## Hydraulics - EH Hitch Valve Neutral Operation



### RXA0159153-UN: Electro-hydraulic Hitch Control Valve—Neutral

**LEGEND:**

- C400 - Left Rear Hitch Cylinder
- C401 - Right Rear Hitch Cylinder
- D401 - Load Check Valve
- F401 - Return Orifice screen
- M301 - Hitch Stepper Motor
- O401 - Priority Valve Return Orifice
- O402 - Priority Valve Load sense Orifice
- O403 - Priority Valve Dampening Orifice

- V401 - Hitch Priority Valve
- V402 - Raise Valve
- V403 - Lower Valve
- V404 - Hitch Surge Relief Valve
- V405 - Hitch Pressure Relief Valve
- V406 - Implement Relief Valve
- 1 - Pressure Oil to Hitch Valve
- 2 - Pressure Oil to SCV Valve Stacks
- 3 - Pressure Oil to Hydraulic Detents on Rear SCV Valve Stack

When the electrohydraulic hitch control valve is in NEUTRAL position, both the raise valve (V402) and lower valve (V403) are closed. The load on the 3-point hitch is held up with the load check valve (D401), hitch lower valve (V403) and surge relief valve (V404). Signal pressure is cut off through the pressure compensator load sense orifice (O402) to the pressure compensator valve (V401). With no signal pressure, the EH hitch priority valve (V42) shifts to reduce oil flow to the hitch raise solenoid valve (Y803) and increase oil flow to the excess flow port (2).

Pressure to the rockshaft cylinder cylinders is controlled by the hitch pressure relief valve (V405). The surge relief valve (V404) protects the rockshaft cylinder and its related parts from a sudden increase in pressure, such as shock loads. As long as pressure inside the rockshaft cylinder is less than 22 994—22 934 kPa (230—240 bar) (3335—3480 psi), tension from relief spring holds relief valve closed. If pressure increases suddenly and exceeds spring pressure, the relief valve unseats, allowing oil back to sump.

V406 is the relief valve for implement hydraulic system.

[Go to Section\\_270:Group\\_20A](#)

LB78905.00012C7-19-20170510