SERVICE MANUAL

Boomer™ 30 ROPS / Boomer™ 35 ROPS

Compact Tractor

Boomer™ 30 - From PIN 0 to 2107013768; From PIN 2107013769 to 2107015119; PIN 2107015120 and above;
Boomer™ 35 - From PIN 0 to 2109014283; From PIN 2109014284 to 2109016018; PIN 2109016019 and above

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NEW HOLLAND AGRICULTURE

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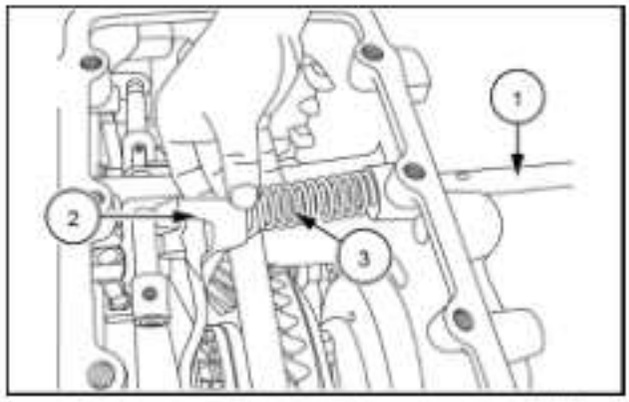
Dimension

Boomer™ 30	WE
Boomer™ 35	WE

	Models Boomer 30 - Hydrostatic/Gear	Models Boomer 35 - Hydrostatic/Gear
(1) - Length:		
FWD:		
	3017 mm (119 in)	**3017 mm (119 in)**
(2) - Wheel base:		
FWD	**1674 mm (66 in)**	**1674 mm (66 in)**
(3) - Top of ROPS - Folding:		
Ag. tires: 11.2-24		
Up position	**2316 mm (91 in)**	**2316 mm (91 in)**
Down position	**1817 mm (71.5 in)**	**1817 mm (71.5 in)**
Turf tires: 41 x 14.00-20		
Up Position	**2281 mm (89.8 in)**	**2281 mm (89.8 in)**
Down position	**1786 mm (70.3 in)**	**1786 mm (70.3 in)**
Ind. tires: 43 x 16-20		
Up position	**2291 mm (90.2 in)**	**2291 mm (90.2 in)**
Down position	**1796 mm (70.7 in)**	**1796 mm (70.7 in)**
(4) - Width:		
Rear axle - Outside to outside of tire:		
Ag. tires: 11.2-24		
Dished in	**1383 mm (54.5 in)**	**1383 mm (54.5 in)**
Dished out	**1639 mm (64.5 in)**	**1639 mm (64.5 in)**
Turf tires: 41 x 14.00-20		
Dished in	**1563 mm (61.5 in)**	**1563 mm (61.5 in)**
Dished out	**1455 mm (57.3 in)**	**1455 mm (57.3 in)**
Ind. tires: 43 x 16-20		
Dished in(Only)	**1689 mm (66.5 in)**	**1689 mm (66.5 in)**
(5) - Minimum ground clearance (under drawbar):		
Ag. tires: 11.2-24	**272 mm (11 in)**	**272 mm (11 in)**
Turf tires: 41 x 14.00-20	**249 mm (9.8 in)**	**249 mm (9.8 in)**
Ind. tires: 43 x 16-20	**259 mm (10.2 in)**	**259 mm (10.2 in)**

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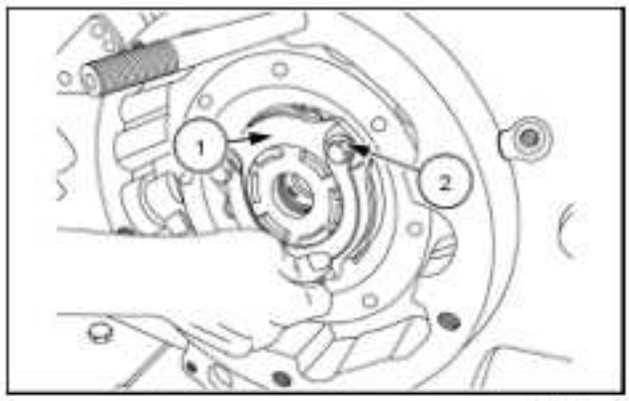
4. Remove the shaft **(1)**, fork **(2)**, and spring **(3)**.



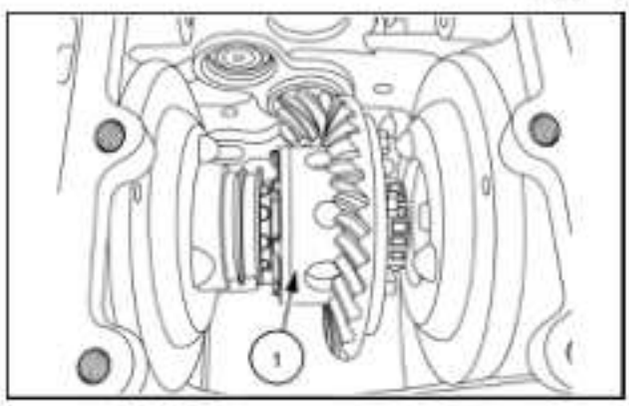
5. Remove the final drive assemblies.
6. Remove the brake assemblies.
7. Bend the locking tabs straight to facilitate removal of the bearing retainer **(1)**.

NOTICE: *Replace locking plate at reassembly.*

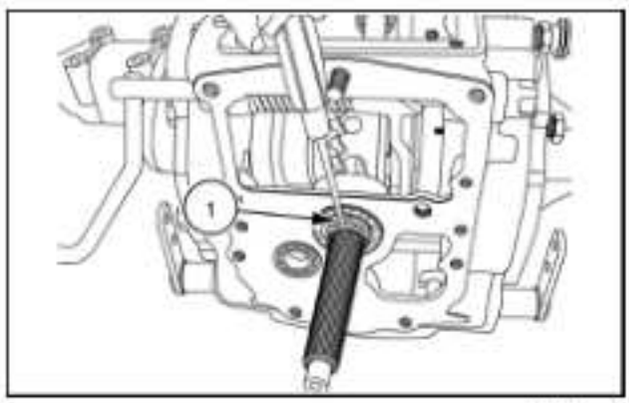
8. Remove the bolts **(2)**, from both sides of the axle housing.



9. Disassemble the right side first while supporting the differential **(1)**.
10. Disassemble the left side, and remove the differential assembly **(1)**.



11. Remove the lock nut **(1)**.



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Electrical system - Electrical schematic sheet 01 - Complete tractor schematic - Gear

Boomer™ 30	WE
Boomer™ 35	WE

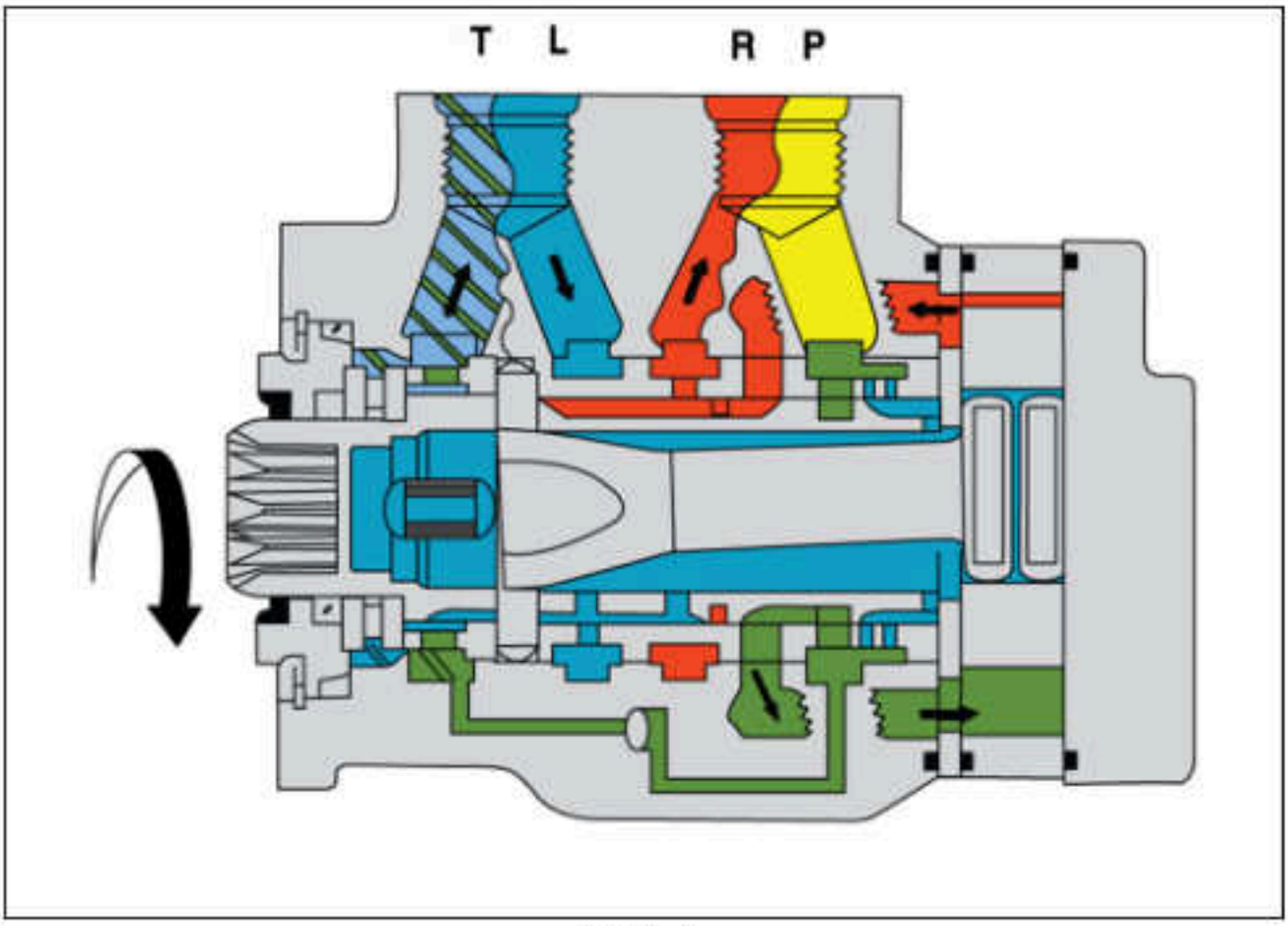
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Emergency operation

⚠WARNING

Loss of control hazard!
Because of the slow responsiveness of the steering in this condition, you should not travel at high speeds or on downhill roads.
Failure to comply could result in death or serious injury.

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Emergency mode steering manually

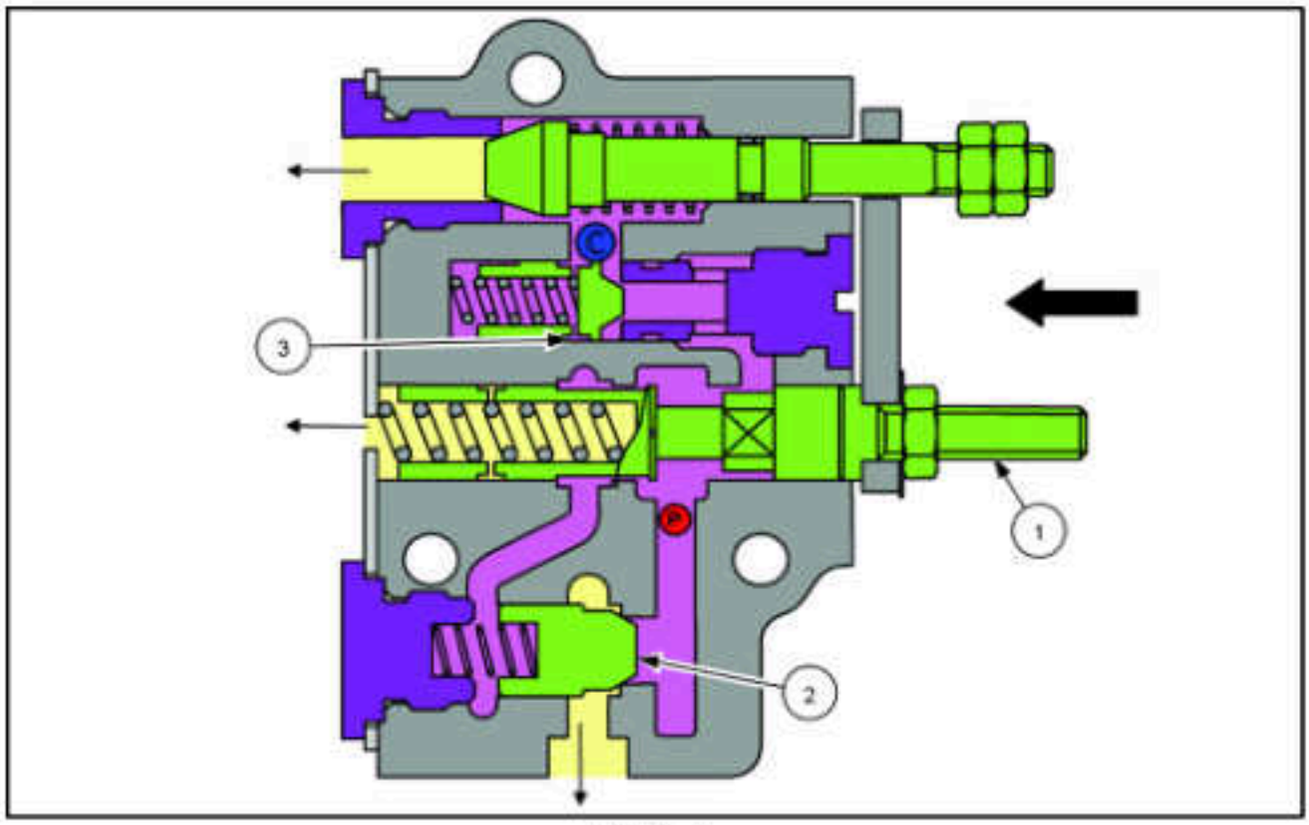
(T) - Tank
(L) - Left steer port
(R) - Right steer port
(P) - Pump discharge

- Pressurized oil from pump
- Oil from rotor
- Discharge
- Suction
- Suction or discharge
- Neutral

NOTICE: *In the EMERGENCY manual steering mode, if steering becomes difficult to do, STOP and transport the tractor by trailer.*

If hydraulic pressure is not generated by the hydraulic pump, the "Rocker" inside the valve serves as a hand pump, and allows the steering cylinder to operate.
The oil returning to the port **(T)** is sent to the rotor **(1)** through the check valve and the rotor sends oil to the cylinder. At this time, the oil in the opposite side returns to the port **(T)** again and repeats the procedure previously described.

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Raise position

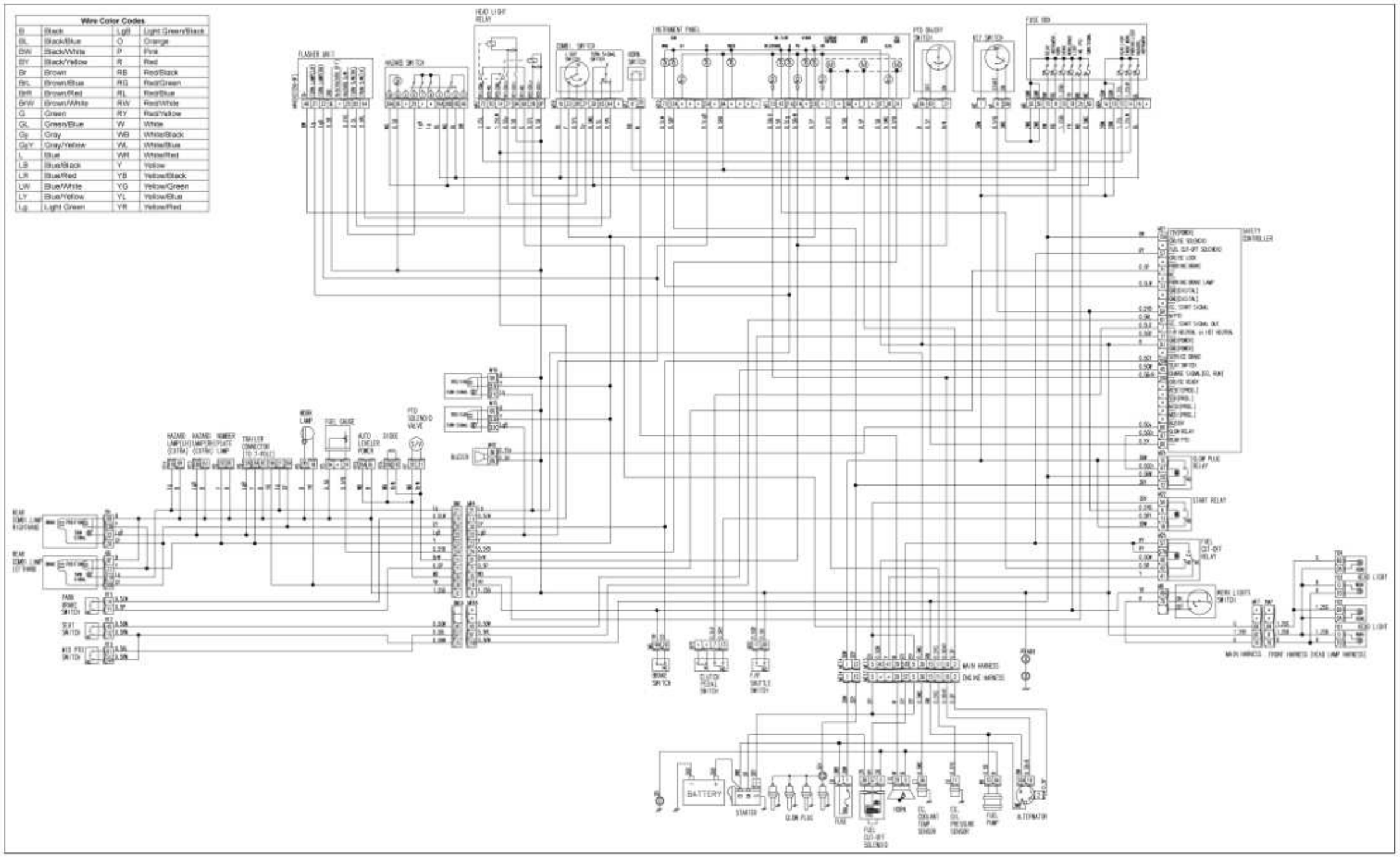
When the valve spool **(1)** moves inward in the "RAISE" position, oil flow being supplied by the pump is route around the valve spool to the backside of the unload valve **(2)** allowing the unload valve to remain seated. When the unload valve remains seated, pressure increases in the valve passage until the pressure on the front side of the check valve **(3)** is greater than the pressure on the backside of the valve, allowing the check valve to open. When the check valve opens, the oil supplied by the pump is routed to the HPL lift cylinder and the 3pt hitch raises.

- Cylinder pressure
- High pressure
- Return oil

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Wire Color Codes			
B	Black	Lg/B	Light Green/Black
BL	Black/Blue	O	Orange
BW	Black/White	P	Pink
BY	Black/Yellow	R	Red
Br	Brown	RB	Red/Black
BrL	Brown/Blue	RG	Red/Green
BrR	Brown/Red	RL	Red/Blue
BrW	Brown/White	RW	Red/White
G	Green	RY	Red/Yellow
GL	Green/Blue	W	White
Gy	Gray	WB	White/Black
Gy/Y	Gray/Yellow	WL	White/Blue
L	Blue	WR	White/Red
LB	Blue/Black	Y	Yellow
LR	Blue/Red	YB	Yellow/Black
LW	Blue/White	YG	Yellow/Green
LY	Blue/Yellow	YL	Yellow/Blue
Lg	Light Green	YR	Yellow/Red



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