SERVICE MANUAL

Boomer™ 20
Boomer™ 25
Compact Tractor

Part number 84557214
1st edition English
July 2012

MidWestTech | New Holland Boomer 20, 25 Compact Tractor Service Manual | Publication 84557214

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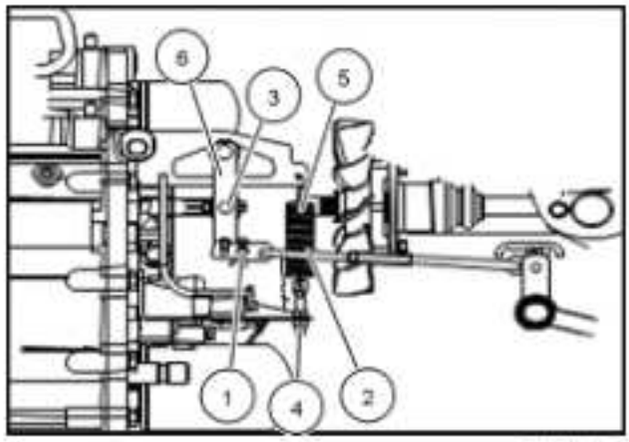
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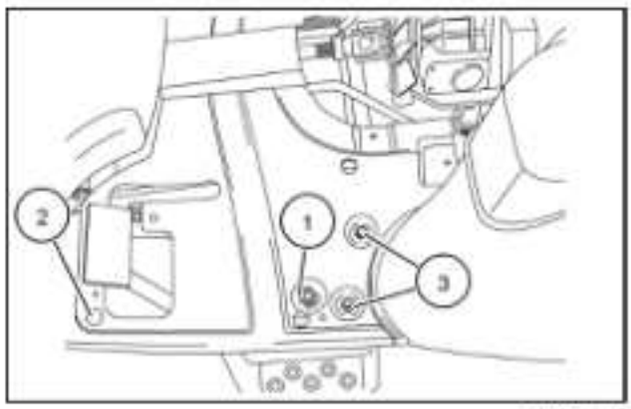
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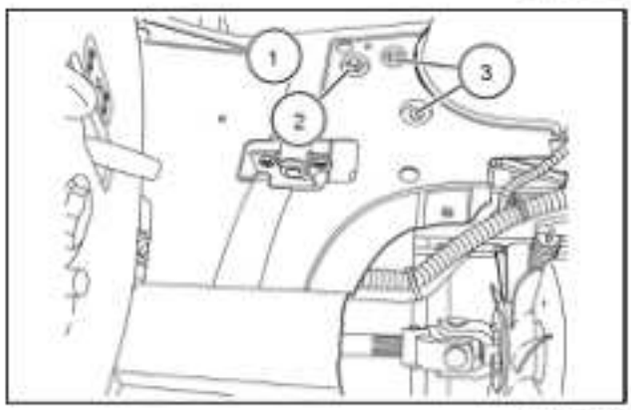
6. Install the spring rod retaining nut, **(4)**, and install the spring **(5)**.
7. Install the arm **(6)**, install the arm retaining bolt **(3)**.
8. Attach the adjustment linkage **(2)**, and install the retaining clip **(1)**.



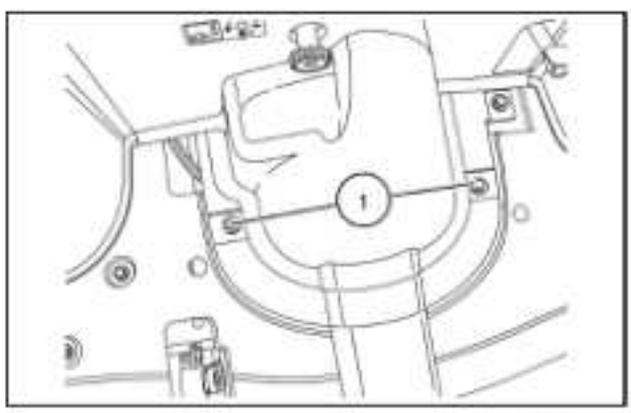
9. Install the three platform retaining bolts **(1)**,and **(2)**, **M8 x 20mm** and lock and flat washers, and two **M6 x 20mm** bolts flat and lock washers, **(3)** left side.



10. Install the three platform retaining bolts **(1)**,and **(2)**, **M8 x 20mm** and lock and flat washers, and two **M6 x 20mm** bolts flat and lock washers, **(3)** right side.



11. Install the HST fan guard retaining bolts **(1) M8 x 20mm**, and lock and flat washers.



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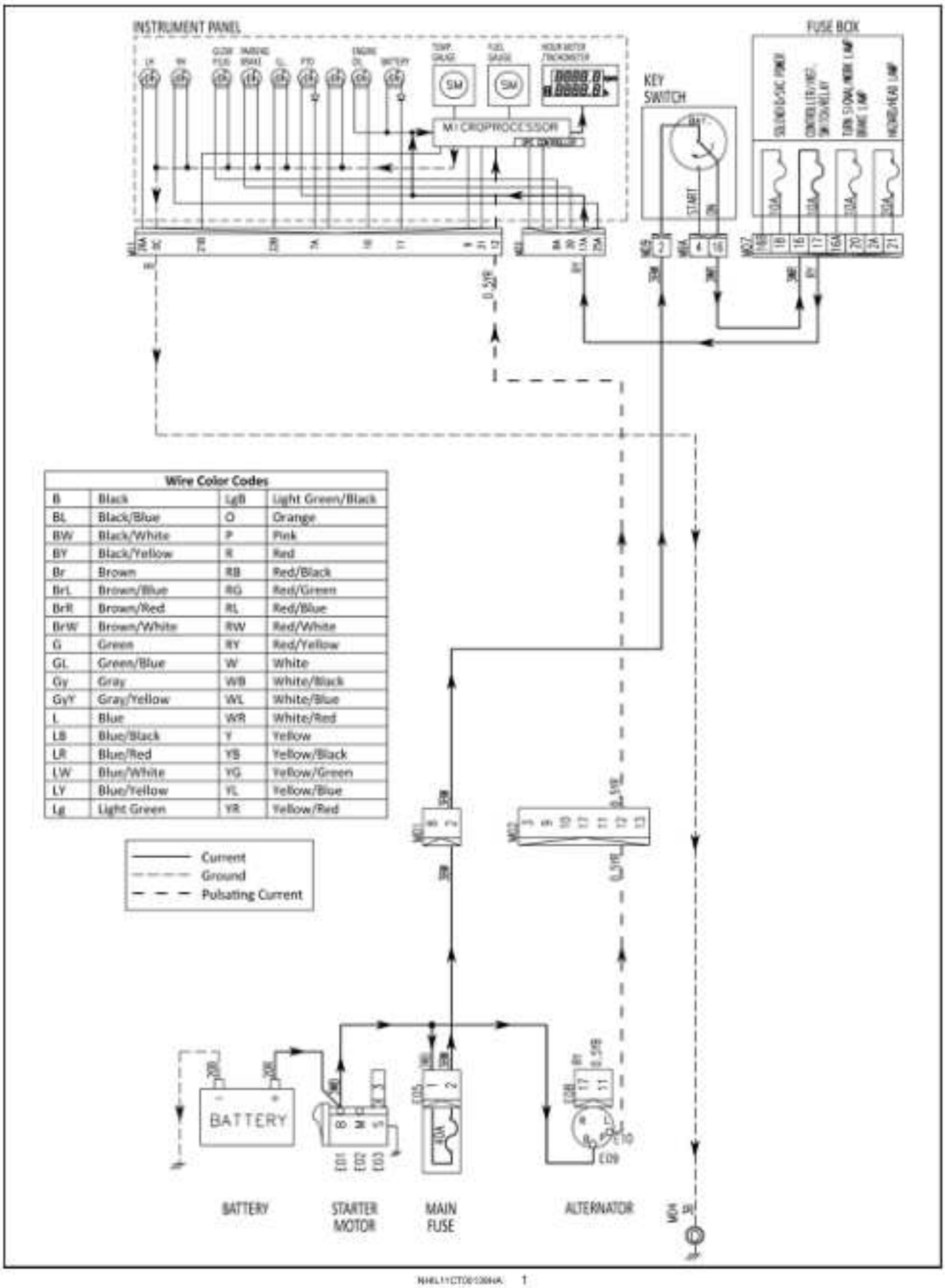
Mechanical service brakes - General specification

Boomer 20 / 25 HST Transmission

Service Brakes	Specification
Type	Wet disc, oil bath, axel shaft mounted
Control	Mechanical ; one suspended pedal
Parking brake	Engages service brake
Disc material	Paper
Discs per brake	2 Disc per side
Disc Diameter	**223 mm** (**9 in**) x **174 mm** (**7 in**)
Disc Outer Diameter	**114 mm** (**4.5 in**)
Disc Inner Diameter	**84 mm** (**3.3 in**)
Disc Thickness	**3.2 mm** (**0.125984 in**)
MINIMUM Wear thickness	**0.4 mm** (**0.015748 in**)
Stator Disc Thickness	**3.4 mm** (**0.133858 in**)

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Wire harnesses - Electrical schema - Tachometer



Wire Color Codes			
B	Black	LgB	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
GyY	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

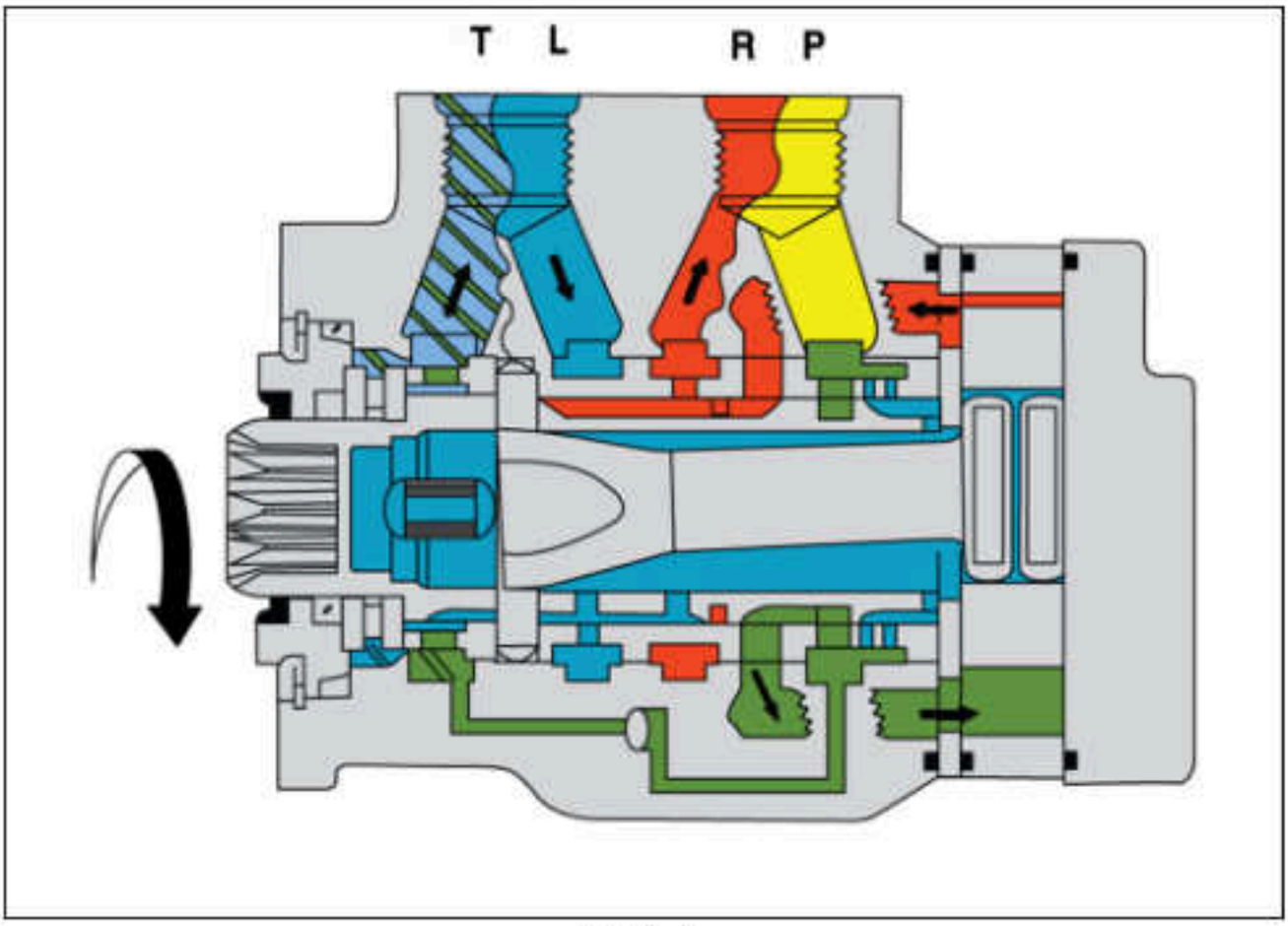
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Emergency operation

⚠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

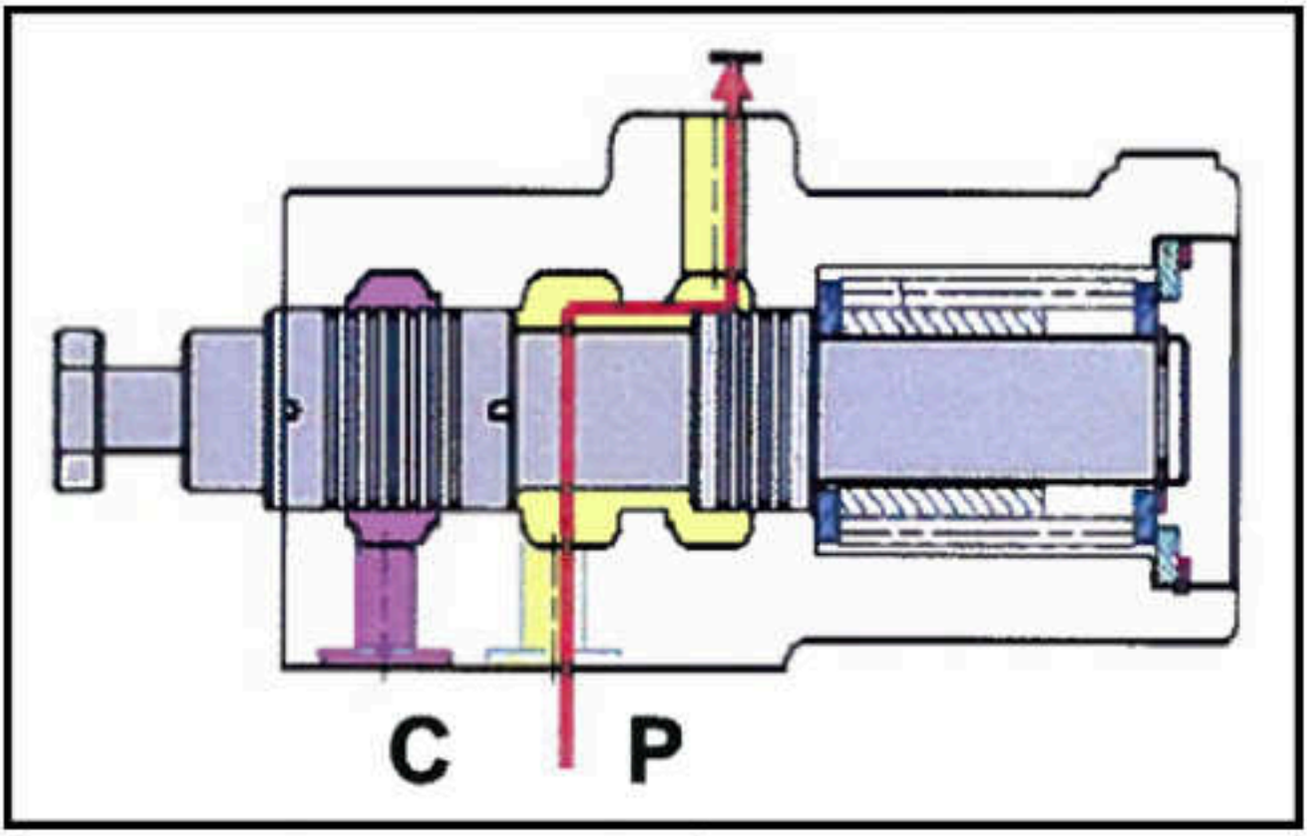
Pressurized oil from pump
Oil from rotor
Discharge
Suction
Suction or discharge
Neutral

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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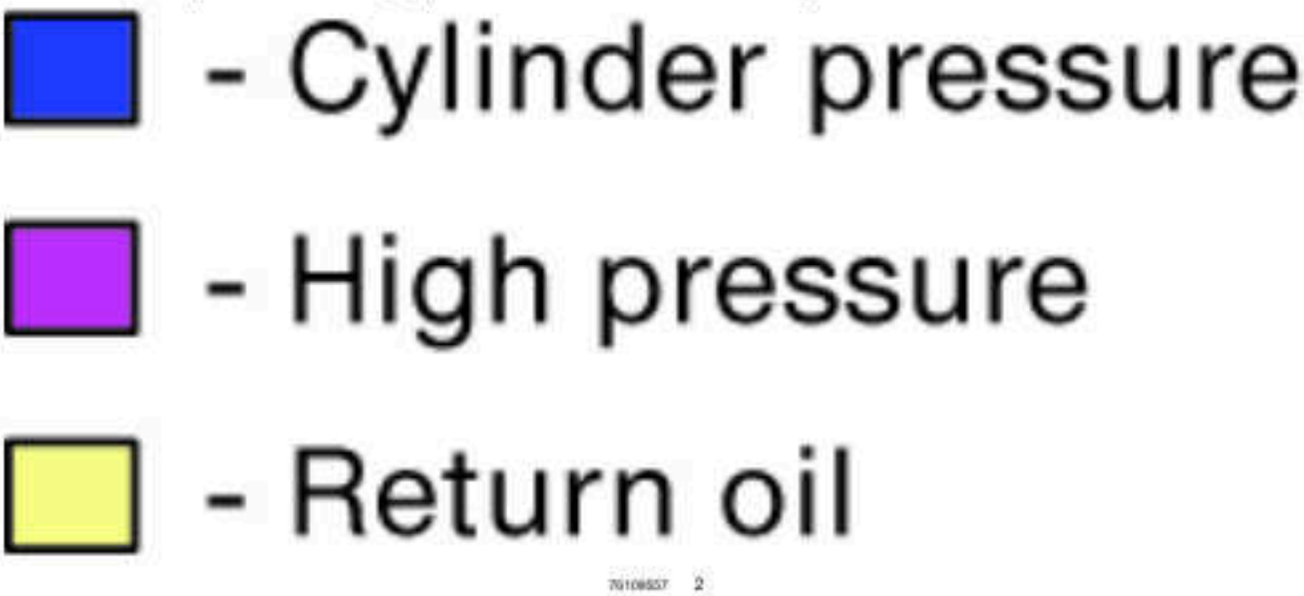
Hitch control valve - Functional diagram -



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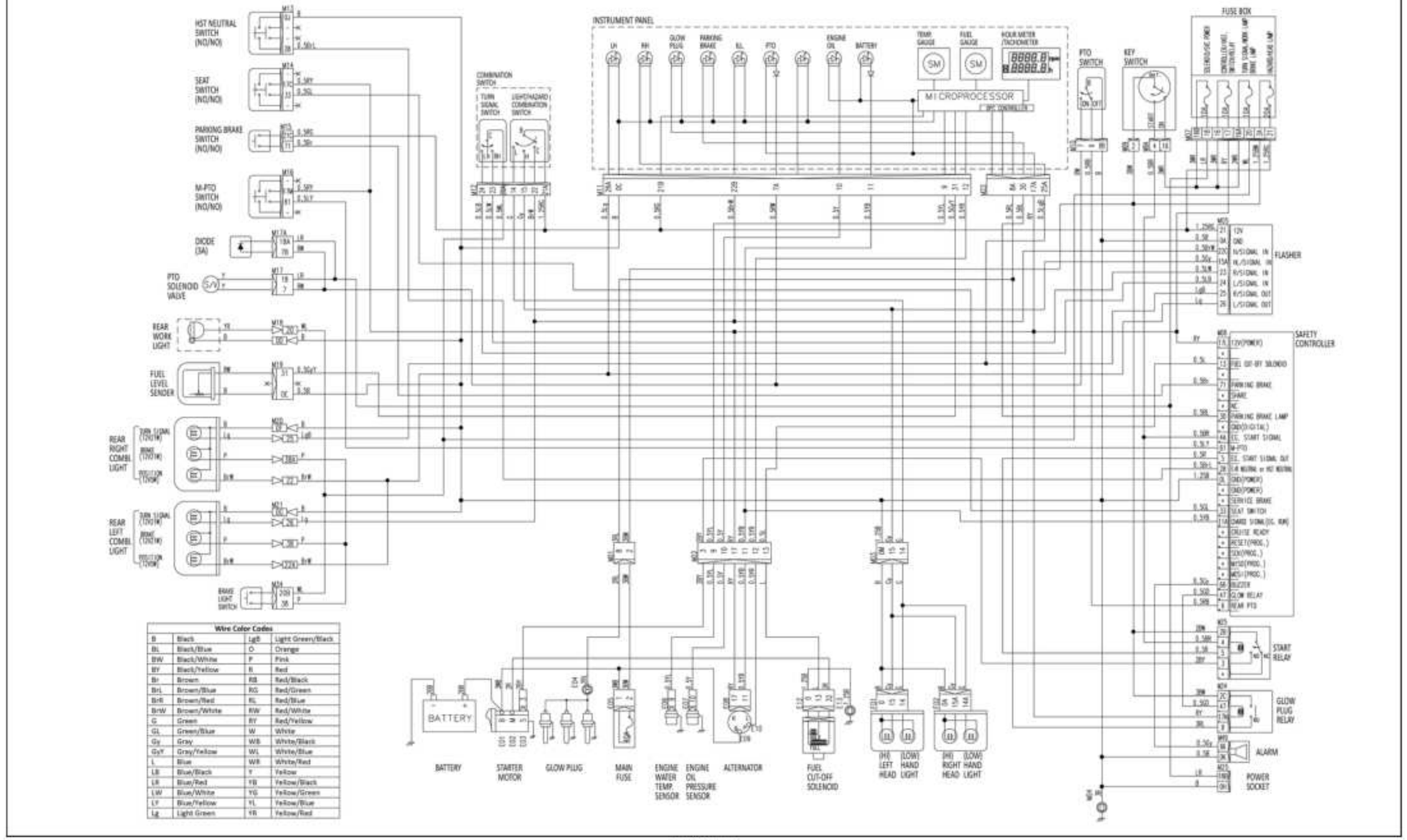
Neutral position

When the valve spool is in the "NEUTRAL" position, oil flow being supplied by the pump to the **(P)** port is routed around the valve spool to the tank **(T)** port and returned to the tractor hydraulic reservoir.



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