SERVICE MANUAL

Boomer 30 / Boomer 35

Compact Tractor

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Consumables

Lubricant	Type and Description	Part Number	Container Size
Engine Oil	NEW HOLLAND AMBRA SUPER GOLD 10W-30	9613313	0.946 l (1 US qt)
		86641052	3.785 l (1 US gal)
		9613314	18.93 l (5 US gal)
		9673508DS	18.93 l (5 US gal)
	NEW HOLLAND AMBRA SUPER GOLD 15W-40	86641081	0.946 l (1 US qt)
		86641082	3.785 l (1 US gal)
		86641084	9.46 l (2.5 US gal)
		86641083	18.93 l (5 US gal)
Transmission/Hydraulic Oil	NEW HOLLAND AMBRA MULTI G 134	9624655DS	0.946 l (1 US qt)
		9624656DS	3.785 l (1 US gal)
		9624450	9.46 l (2.5 US gal)
		9624451	18.93 l (5 US gal)
	NEW HOLLAND AMBRA F200A HYD FLUID	86523625DS	3.785 l (1 US gal)
Front Axle/Gear Oil	NEW HOLLAND AMBRA HYPOIDE 90	9613295	0.946 l (1 US qt)
		9613294	9.46 l (2.5 US gal)
		86994348	60.6 l (16 US gal)
Grease	NEW HOLLAND AMBRA GR9	9613310	Tube 14 oz
Coolant	ESE-M97B18-D, Ethylene Glycol Coolant Concentrate	FGCC2701DS	3.785 l (1 US gal)

NOTE: *Oil Capacity, with filter* ***4.7 l (5.0 US qt)***

Ambient Temp (°F)	Recommended Oil
-12 - 49 °C (10 - 120 °F)	NEW HOLLAND AMBRA MASTERGOLD HSP 15W-40
-23.3 - 49 °C (-10 - 120 °F)	NEW HOLLAND AMBRA MASTERGOLD HSP 10W-30
-29 - 16 °C (-20 - 60 °F)	NEW HOLLAND AMBRA MASTERGOLD HSP SAE 5W-30
Oil Specification API CF-4 or CH-4	

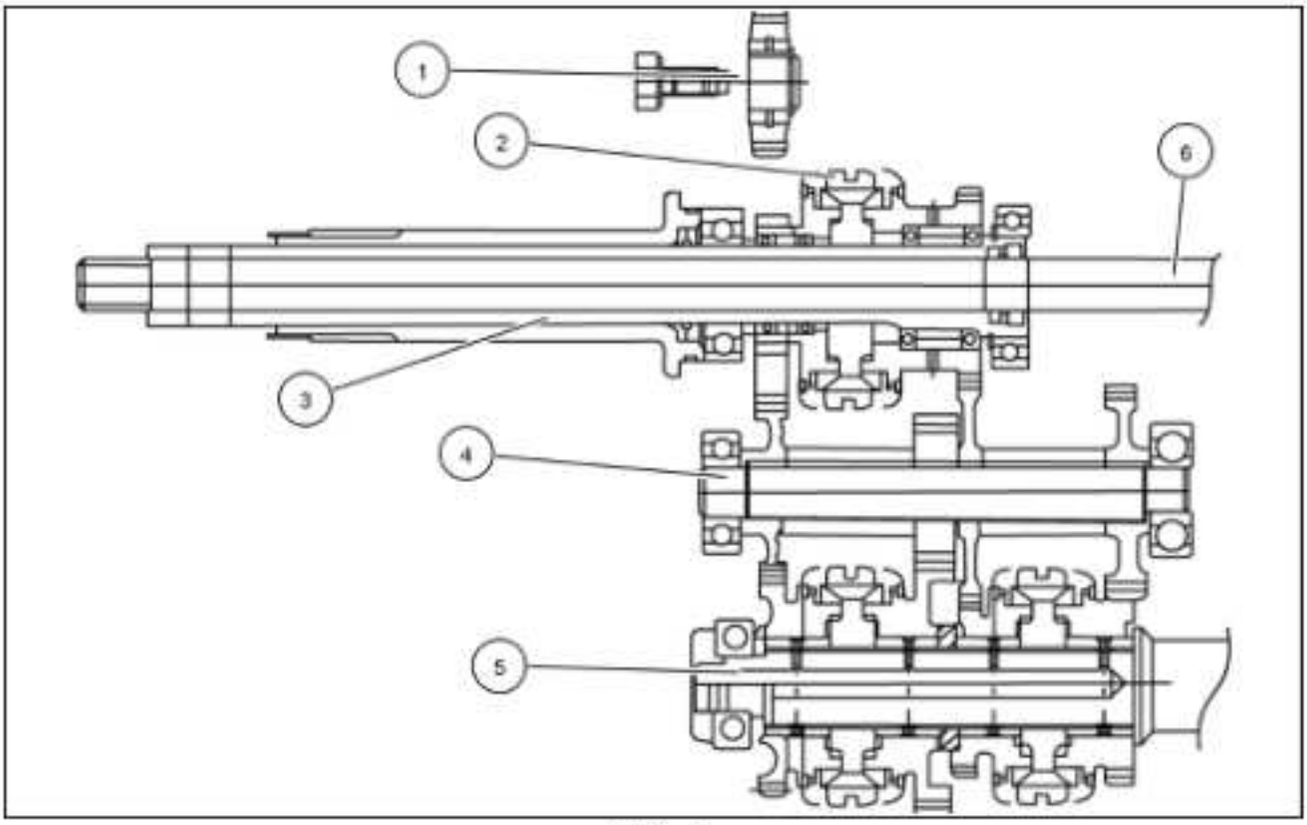
NOTE: *Tractors are originally shipped with (15W40) oil.*

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Cover - Visual inspection - inspection cover removal



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Transmission schematic

(1) Reverse gear
(2) Shuttle gear
(3) Forward and reverse shaft
(4) Main drive counter shaft
(5) Main Drive shaft
(6) PTO shaft

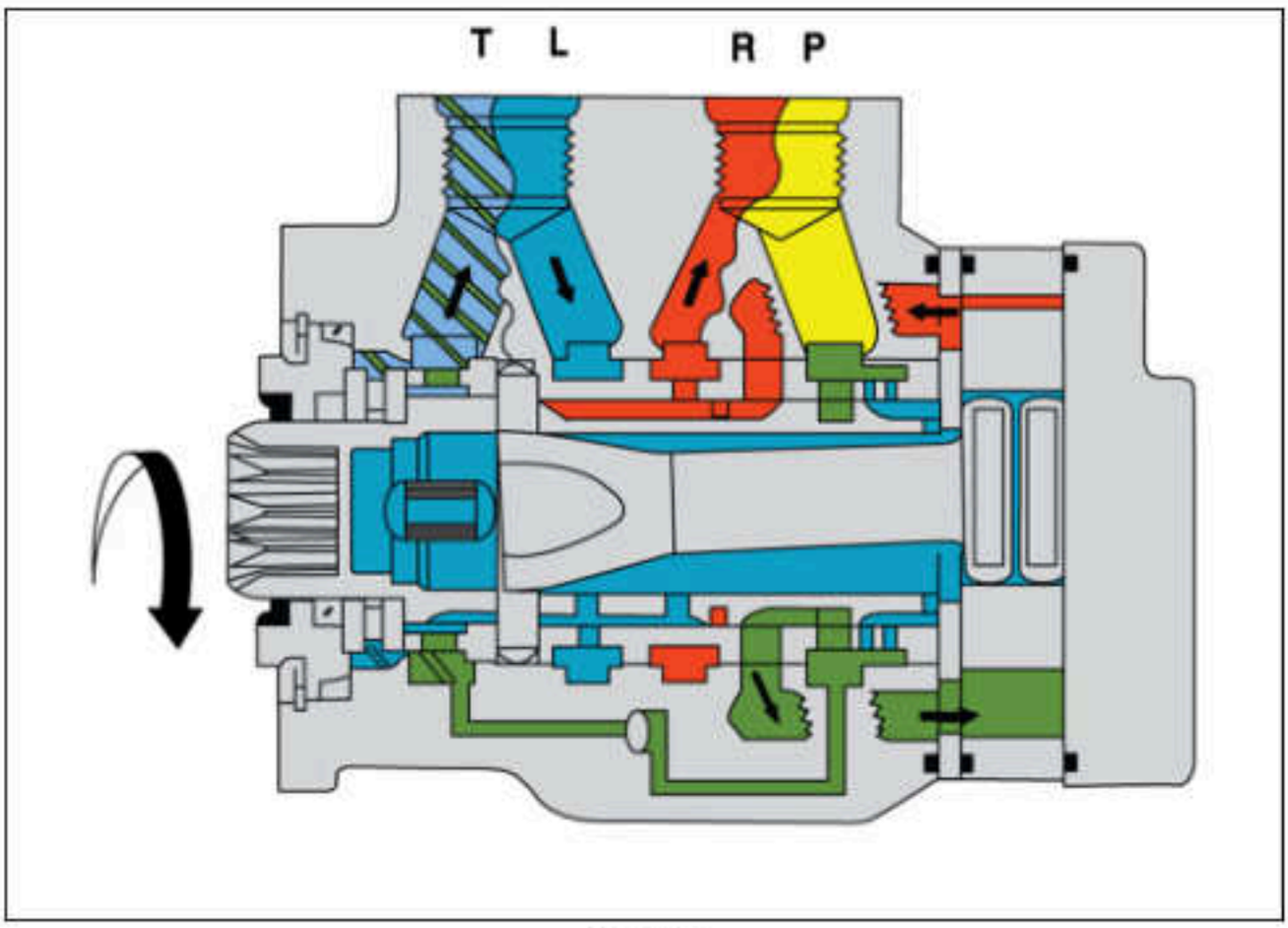
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Emergency operation

⚠ 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

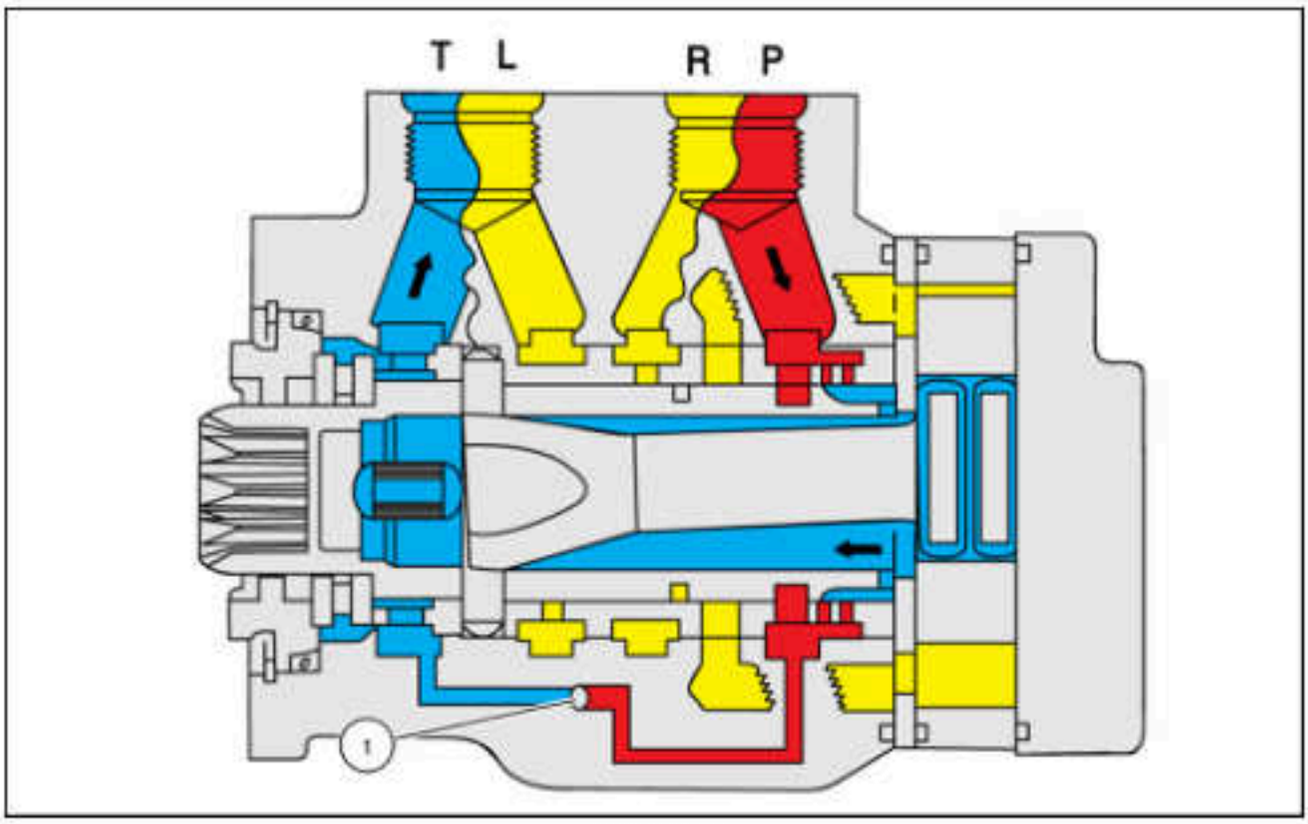
Pressurized oil from pump
Oil from rotor
Discharge
Suction
Suction or discharge
Neutral

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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Neutral position



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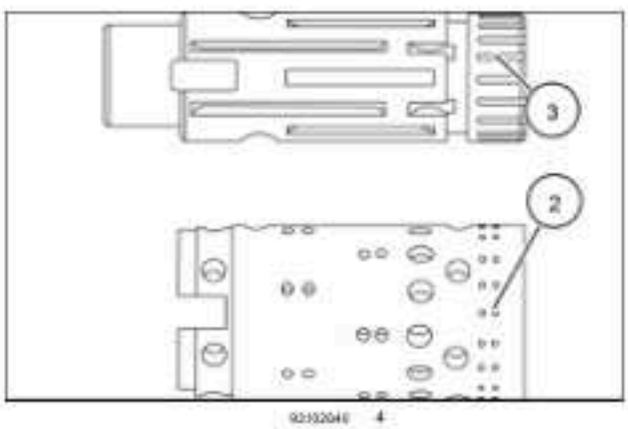
Neutral position

(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

Pressurized oil from the pump flows to the port **(P)**, seating the check valve **(1)**, preventing oil from flowing to the port **(T)**.

The port **(2)** coincides with the groove **(3)** and oil flows out to the port **(T)** through the center of rotation valve.



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