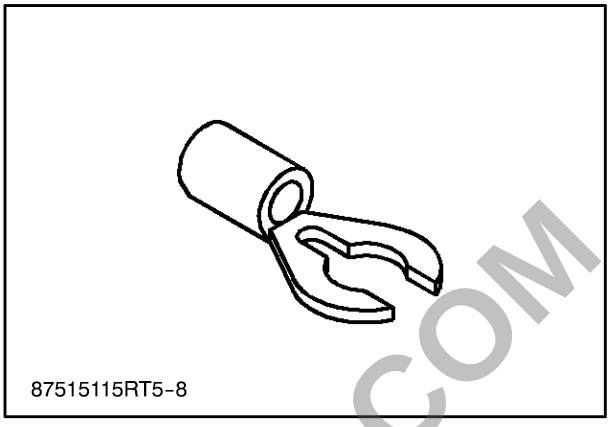
RT5-8 Open Ring Terminals

Ref. Des.	Circuit ID	Description	Harness
RT5	BC3	Alternator Feed	Battery
RT6	HM57	Alternator Ground	Main
RT7	HM58	Glow Plugs	Main
RT8	HM90	Engine Oil Press. Sw.	Main



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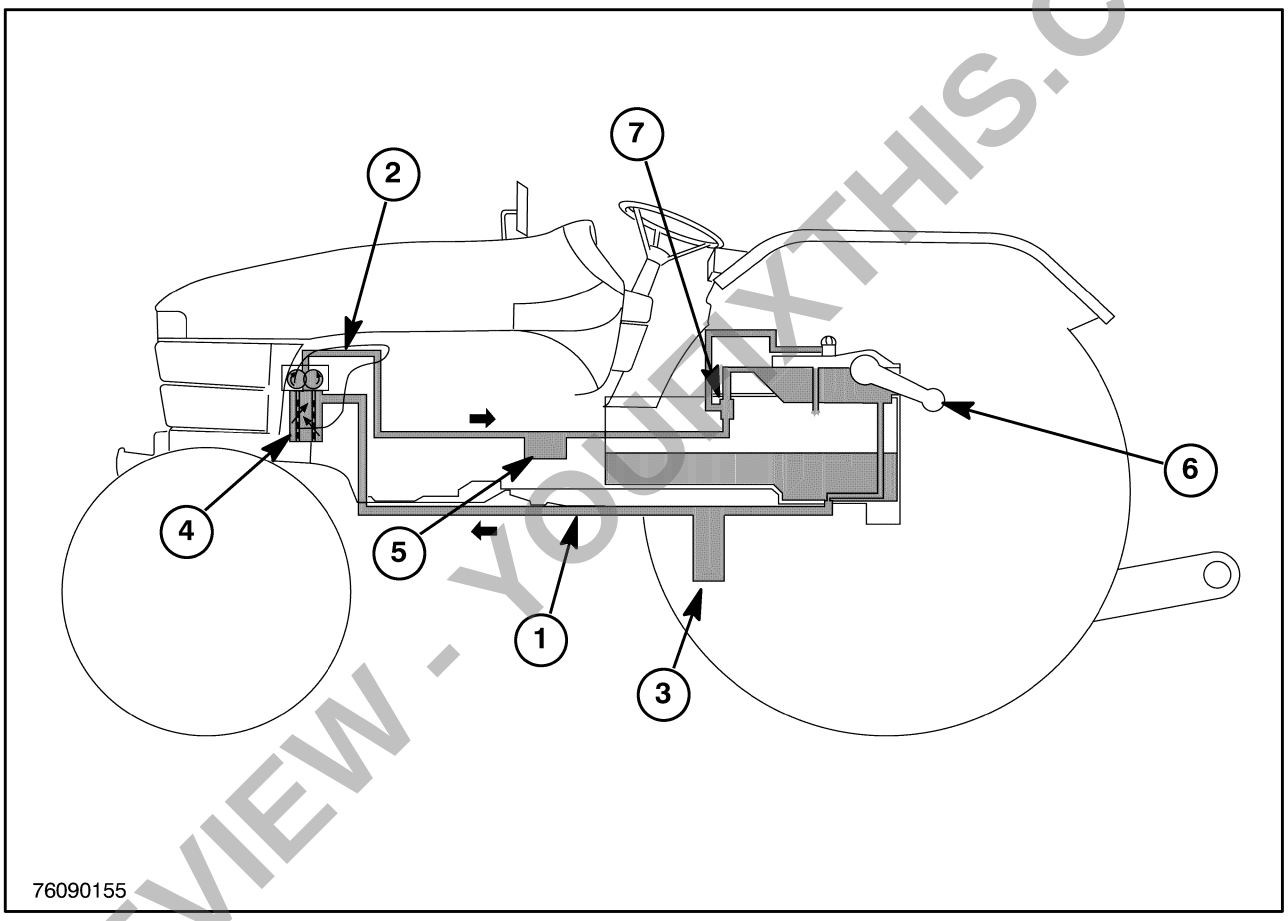
OPEN CENTER HYDRAULIC CIRCUIT AND MECHANICAL LIFT

High pressure pump is directly connected on rear side of engine timing gear. Oil is drawn from transmission case through filter. The pump supplies constant oil flow according to engine speed. High pressure oil enters the control valve located at the front of the lift assembly, which controls the raising and lowering of the lift.

All excess oil flow produced by the hydraulic pump is returned direct to the Gear box through the control valve spool located in the control valve.

Also located within the control valve is the lift cylinder safety valve, which protect the lift cylinder and seals from excessive peaks of pressure durng operation.

SCHEMATIC VIEW OF HYDRAULIC SYSTEM



4

1. Suction line drawing from Transmission housing
2. Delivery line to control valve
3. Oil filter
4. Hydraulic pump
5. Relief valve
6. Lift arm
7. Control valve

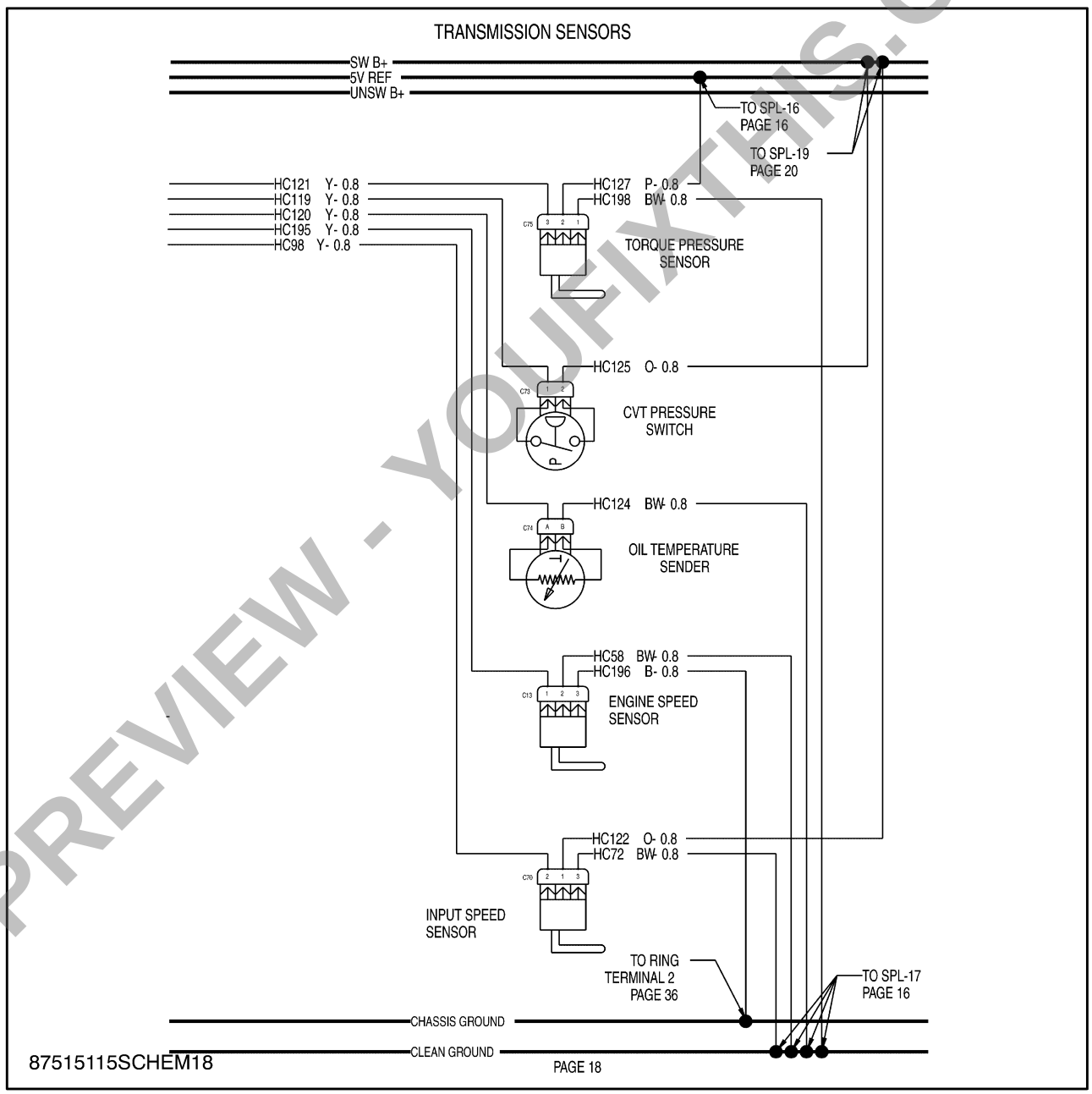
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WIRING HARNESS – ELECTRICAL SCHEMATIC FRAME 18

Connector	Description
C75	Torque Pressure Sensor
C73	CVT Pressure Switch
C74	Oil Temperature Sender
C13	Engine Speed Sensor
C70	Input Speed Sensor

Wire Color Codes			
R	Red	B	Black
T	Tan	BR	Brown
W	White	BW	Black/White
Y	Yellow	O	Orange
P	Pink	DG	Dark Green
V	Violet	LG	Light Green
DB	Dark Blue		
LB	Light Blue		



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	Boomer 3040	Boomer 3045	Boomer 3050
BRAKES			
Type	Wet Disc	Wet Disc	Wet Disc
3 Disc Diameter	175 mm x 143 mm (6.9 in x 5.6 in)	175 mm x 143 mm (6.9 in x 5.6 in)	175 mm x 143 mm (6.9 in x 5.6 in)
STEERING			
Type	Power	Power	Power
Pump Flow @ Rated RPM	19.34Lpm (5.11 gpm)	19.34Lpm (5.11 gpm)	21.0Lpm (5.54 gpm)
Turns Lock-to-Lock:			
FWD	4.3 R to L and 3 L to R	4.3 R to L and 3 L to R	4.3 R to L and 3 L to R
SuperSteer™	4.3	4.3	4.3
Front Wheel Toe-In	0 - 5 mm (0 - 13/64 in)	0 - 5 mm (0 - 13/64 in)	0 - 5 mm (0 - 13/64 in)
Turning Radius w/o Brakes:			
FWD	3238.5 mm (127.5 in)	3238.5 mm (127.5 in)	3238.5 mm (127.5 in)
SuperSteer™	2870.2 (113 in)	2870.2 (113 in)	2870.2 (113 in)
Max. Turn Angle:			
4WD	54°	54°	54°
4WDSS	75°	75°	75°
Front to rear axle ratio	1.67 to 1	1.67 to 1	1.67 to 1
POWER TAKE-OFF			
Type	Independent	Independent	Independent
Shaft:			
Rear PTO	35 mm (1-3/8 in)	35 mm (1-3/8 in)	35 mm (1-3/8 in)
Mid PTO	25.4 mm (1 in)	25.4 mm (1 in)	25.4 mm (1 in)
Engine Speed for 540 RPM Rear PTO Operation	2409 RPM	2409 RPM	2409 RPM
Horsepower Rear PTO Observed	23 kw (30.8 HP)	25.8 kw (34.6 HP)	28.7 kw (38.5 HP)
Horsepower Mid PTO Observed	19.3 kw (26 HP)	22.3 kw (30 HP)	24.6 kw (36 HP)
Engine Speed for 2000 RPM Mid PTO Operation	2407 RPM	2407 RPM	2407 RPM
Direction of Rotation (As viewed from rear of tractor)			
Rear PTO	Clockwise	Clockwise	Clockwise
Mid PTO	Counter-clockwise	Counter-clockwise	Counter-clockwise
HYDRAULIC LIFT SYSTEM			
Type	Open Center	Open Center	Open Center
Pump Type	Gear	Gear	Gear
Pump Capacity	36.9 lpm (9.7 U.S. gpm)	36.9 lpm (9.7 U.S. gpm)	39.8 lpm (10.5 U.S. gpm)
System Relief Valve Setting	171.6 bar (2489 PSI)	171.6 bar (2489 PSI)	171.6 bar (2489 PSI)
Number of Rear Remotes Available	3 (optional)	3 (optional)	3 (optional)
Number of Mid Remotes Available	2 (optional)	2 (optional)	2 (optional)

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SPECIFICATIONS

	Boomer 3040	Boomer 3045	Boomer 3050
ENGINE			
Type/Model	Diesel/N844	Diesel/N844L	Diesel/N844L
Engine Gross Horsepower	29.8 kw (40.0)	33.6 kw (45)	33.6 kw (45)
Cylinders	4	4	4
Bore	84 mm (3.31 in)	84 mm (3.31 in)	84 mm (3.31 in)
Stroke	90 mm (3.54 in)	100 mm (3.94 in)	100 mm (3.94 in)
Displacement	2.0 L (121.7 cu-in)	2.2 L (135.2 cu-in)	2.2 L (135.2 cu-in)
Compression Ratio	22.5:1	22.5:1	22.5:1
Firing Order	1-3-4-2	1-3-4-2	1-3-4-2
Low Idle Speed	1025 RPM	1025 RPM	1050 RPM
Maximum Speed:			
High Idle	2850 RPM	2850 RPM	3050 RPM
Rated	2600 RPM	2600 RPM	2800 RPM
CAPACITIES			
Fuel Tank	49.2 liters/ 13 U.S. gals	49.2 liters/ 13 U.S. gals	49.2 liters/ 13 U.S. gals
Cooling System	9.0 liters/ 9.6 U.S. qts	9.0 liters/ 9.6 U.S. qts	9.0 liters/ 9.6 U.S. qts
Engine Crankcase:			
With Filter	6.0 liters/ 6.3 U.S. qts	6.0 liters/ 6.3 U.S. qts	6.0 liters/ 6.3 U.S. qts
Rear Axle & Transmission (Includes Hydraulics)	35.2 liters/ 9.3 U.S. gals	35.2 liters/ 9.3 U.S. gals	35.2 liters/ 9.3 U.S. gals
Front Axle Differential/ Final Reduction Gear Case	5.3 liters/ 5.6 U.S. qts	5.3 liters/ 5.6 U.S. qts	5.3 liters/ 5.6 U.S. qts
AIR CONDITIONING SYSTEM			
Compressor make/model	SANDEN/SD5H11	SANDEN/SD5H11	SANDEN/SD5H11
Bore	35 mm	35 mm	35 mm
Stroke	22.6 mm	22.6 mm	22.6 mm
Number of Cylinders	5	5	5
Refrigerant	R-134a	R-134a	R-134a
Capacity	1.1 kg (2.4 lbs)	1.1 kg (2.4 lbs)	1.1 kg (2.4 lbs)
Oil	SP-20 (or equivalent)	SP-20 (or equivalent)	SP-20 (or equivalent)
Capacity	135 ml (4.56 fl-oz)	135 ml (4.56 fl-oz)	135 ml (4.56 fl-oz)
Rotation	Clockwise	Clockwise	Clockwise
Blower Motor	3 Speed-Electric Switch	3 Speed-Electric Switch	3 Speed-Electric Switch
Number of Interior Vents	8	8	8

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TIRE BALLAST AND PRESSURES

LIQUID BALLAST (OPTIONAL)

It is a common practice to add weight to the tractor by filling the rear tires with liquid. A calcium chloride ($CaCl_2$) and water solution is recommended due to its low freezing point and greater density (weight per gallon) than pure water.

Never exceed the total recommended weight for the tractor. Because special equipment is required to fill the tires, consult your New Holland Dealer.

Tires should never be filled beyond 75%. At 75% full, the liquid will come to the valve stem when the valve stem is at its highest point at the top of the wheel.

TIRE PRESSURE

Tire pressure must be considered when adding weights, implements, or attachments to the tractor or damage to the tractor may occur.

The chart below outlines tire inflation pressures.

FRONT TIRE INFLATION PRESSURES		
Tire Type	**Tire Size**	**Inflation Pressure**
Agricultural: FWD	8 x 16, 6PR, RI	1.4 - 1.9 bar (12 - 28 psi)
Turf: FWD	27 x 10.5-15, 4PR, R3 27/12LL x 15, 6PR, R3	0.7 - 2.1 bar (10 - 30 psi) 0.6 - 0.7 bar (8 - 10 psi)
Industrial	10 x 16.5, 6PR, R4	1.1 – 3.1 bar (16 - 45 psi)
REAR TIRE INFLATION PRESSURES		
Agricultural	14.9 x 24, 4 PR, R1	0.8 - 0.97 bar (12 - 14 psi)
Turf	44 x 18-20, 4PR, R3 22.5LL x 16.1, 6PR, R3	0.8 – 1.4 bar (12 - 20 psi) 0.4 - 0.6 bar (6 - 8 psi)
Industrial	17.5 x 24, 8PR, R4	0.8 – 1.8 bar (12 - 26 psi)

NOTE: *Do not underinflate or overinflate tires. Do not exceed maximum inflation pressure listed.*

REAR TIRE LIQUID

Ballast Weights (Per Tire) 600 g/5 lb Gal Solution/$CaCL_2$

Agricultural	14.9 x 24, 4PR, R1	230 kg (507 lbs)
Turf	44 x 18-20, 4PR, R3	249 kg (548 lbs)
Industrial (R4)	17.5 x 24, 6PR, R4	272 kg (600 lbs)

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