SERVICE MANUAL

Boomer™ 45
Boomer™ 50
Boomer™ 55

Tier 4B (final)
Compact Tractor

Boomer™ 45 Cab - From PIN LSM0B45Cxx0010001 to LSM0B45CAH0010031
Boomer™ 45 ROPS - From PIN LSM0B45Rxx0010001 to LSM0B45RJH0010062
Boomer™ 50 Cab - From PIN LSM0B50Cxx0010001 to LSM0B50CEH0010080
Boomer™ 50 ROPS - From PIN LSM0B50Rxx0010001 to LSM0B50REH0010097
Boomer™ 55 Cab - From PIN LSM0B55Cxx0010001 to LSM0B55CCH0010090
Boomer™ 55 ROPS - From PIN LSM0B55Rxx0010001 to LSM0B55RCH0010120

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NEW HOLLAND AGRICULTURE

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Contents

INTRODUCTION

Engine 10

[10.001] Engine and crankcase 10.1

[10.216] Fuel tanks 10.2

[10.206] Fuel filters 10.3

[10.218] Fuel injection system 10.4

[10.202] Air cleaners and lines 10.5

[10.254] Intake and exhaust manifolds and muffler 10.6

[10.501] Exhaust Gas Recirculation (EGR) exhaust treatment 10.7

[10.400] Engine cooling system 10.8

[10.414] Fan and drive 10.9

Clutch 18

[18.100] Clutch mechanical release control 18.1

[18.110] Clutch and components 18.2

Power coupling 19

[19.110] Flywheel damper 19.1

Transmission 21

[21.114] Mechanical transmission 21.1

[21.130] Mechanical transmission external controls 21.2

[21.140] Mechanical transmission internal components 21.3

[21.110] Master clutch housing 21.4

Four-Wheel Drive (4WD) system 23

[23.314] Drive shaft 23.1

[23.101] Mechanical control 23.2

Front axle system 25

[25.100] Powered front axle 25.1

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[25.102] Front bevel gear set and differential 25.2
[25.108] Final drive hub, steering knuckles, and shafts 25.3
Rear axle system 27
[27.106] Rear bevel gear set and differential 27.1
[27.120] Planetary and final drives 27.2
Hydrostatic drive 29
[29.200] Mechanical control 29.1
[29.100] Transmission and steering hydrostatic control 29.2
[29.204] Reservoir, cooler, and lines 29.3
[29.218] Pump and motor components 29.4
[29.202] Hydrostatic transmission 29.5
Power Take-Off (PTO) 31
[31.101] Rear mechanical control 31.1
[31.104] Rear electro-hydraulic control 31.2
[31.110] One-speed rear Power Take-Off (PTO) 31.3
[31.120] Central Power Take-Off (PTO) 31.4
Brakes and controls 33
[33.110] Parking brake or parking lock 33.1
[33.120] Mechanical service brakes 33.2
Hydraulic systems 35
[35.000] Hydraulic systems 35.1
[35.300] Reservoir, cooler, and filters 35.2
[35.104] Fixed displacement pump 35.3
[35.350] Safety and main relief valves 35.4
[35.204] Remote control valves 35.5
[35.114] Three-point hitch control valve 35.6
[35.116] Three-point hitch cylinder 35.7
[35.724] Front loader hydraulic system control 35.8

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Hitches, drawbars, and implement couplings 37
[37.100] Drawbars and towing hitches 37.1
[37.108] Rear three-point hitch external controls 37.2
[37.110] Rear three-point hitch 37.3
Steering 41
[41.101] Steering control 41.1
[41.106] Tie rods 41.2
[41.200] Hydraulic control components 41.3
[41.216] Cylinders 41.4
[41.206] Pump 41.5
Wheels 44
[44.511] Front wheels 44.1
[44.520] Rear wheels 44.2
Cab climate control 50
[50.100] Heating 50.1
[50.104] Ventilation 50.2
[50.200] Air conditioning 50.3
[50.300] Cab pressurizing system 50.4
[50.AAA] Cab climate control generic sub-group 50.5
Electrical systems 55
[55.000] Electrical system 55.1
[55.100] Harnesses and connectors 55.2
[55.525] Cab engine controls 55.3
[55.015] Engine control system 55.4
[55.201] Engine starting system 55.5
[55.301] Alternator 55.6
[55.302] Battery 55.7
[55.011] Fuel tank system 55.8

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Hydraulic systems - Troubleshooting

Problem	Possible Cause	Correction
Relief valve operates when implement is in full raise position	HPL upper stop out of adjustment	Adjust position of upper stop
Relief valve operates when the rear remote is in detent and no attachment connected, cylinder is at end of travel, or hydraulic motor failure.	Control valve in detent.	Move the control valve to the neutral position.
Relief valve operates when the rear remote is in detent and connected cylinder is at the end of travel	Control valve in detent.	Move the control valve to the neutral position.
Relief valve operates when the rear remote is in detent and the attachment hydraulic motor is stalled.	Attachment hydraulic motor is stalled.	Rectify the reason attachment hydraulic motor is stalled.
Hydraulic noise when control valve is in neutral	Unload valve binding in valve body, creating vibration and noise.	Clean unload valve and valve body, check fit of valve in bore.

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Ambient Temperature C (°F)	% Relative Humidity		Louver Temps* °C (°F)		Normal Low Side Pressure kPa (psi)		Normal High Side Pressure kPa (psi)	
	Low RH	High RH	Low RH	High RH	Low RH	High RH	Low RH	High RH
49 °C (120 °F)	10 – 12%	26 – 28%	23 °C (73 °F)	28 °C (83 °F)	200 – 221 kPa (29 – 32 psi)	248 – 276 kPa (36 – 40 psi)	1779 – 1972 kPa (258 – 286 psi)	1910 – 2117 kPa (277 – 307 psi)

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Wiring harnesses - Electrical schematic sheet 03 - ENGINE SIDE 2

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Type	Component	Connector / Link	Description
ECU	**A-009**	**X-046 X-051**	ENGINE CONTROL UNIT (ECU)
Sensor	**B-007**	**X-061**	RAIL PRESSURE SENSOR (RPS)
Sensor	**B-008**	**X-062**	INTAKE MANIFOLD TEMPERATURE SENSOR (T2)
Sensor	**B-014**	**X-069**	CRANKSHAFT POSITION SENSOR (CKPS)
Sensor	**B-015**	**X-072**	WATER IN FUEL SENSOR (WIF)
Sensor	**B-016**	**X-073**	FUEL TEMPERATURE SENSOR (FTS)
Sensor	**B-020**	**X-068**	KNOCK SENSOR
Connector	X-046	**X-046**	ENGINE CONTROL UNIT (ECU)
Connector	X-051	**X-051**	ENGINE CONTROL UNIT (ECU)
Connector	X-061	**X-061**	RAIL PRESSURE SENSOR (RPS)
Connector	X-062	**X-062**	INTAKE MANIFOLD TEMPERATURE SENSOR (T2)
Connector	X-068	**X-068**	KNOCK SENSOR
Connector	X-069	**X-069**	CRANK SHAFT POSITION SENSOR (CKPS)
Connector	X-072	**X-072**	WATER IN FUEL SENSOR (WIF)
Connector	X-073	**X-073**	FUEL TEMPERATURE SENSOR (FTS)
Connector	X-209A	**X-209A**	ENGINE HARNESS (EN) TO ENGINE INTERFACE HARNESS (EI)
Connector	X-209B	**X-209B**	ENGINE INTERFACE HARNESS (EI) TO ENGINE HARNESS (EN)
Connector	X-211A	**X-211A**	ENGINE SENSOR HARNESS (EH) TO ENGINE HARNESS (EN)
Connector	X-211B	**X-211B**	ENGINE HARNESS (EN) TO ENGINE SENSOR HARNESS (EH)

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NHPH17CT0025TTA(1) 2

Item	Description
(1)	Alternator



NHPH17CT0026STA 3

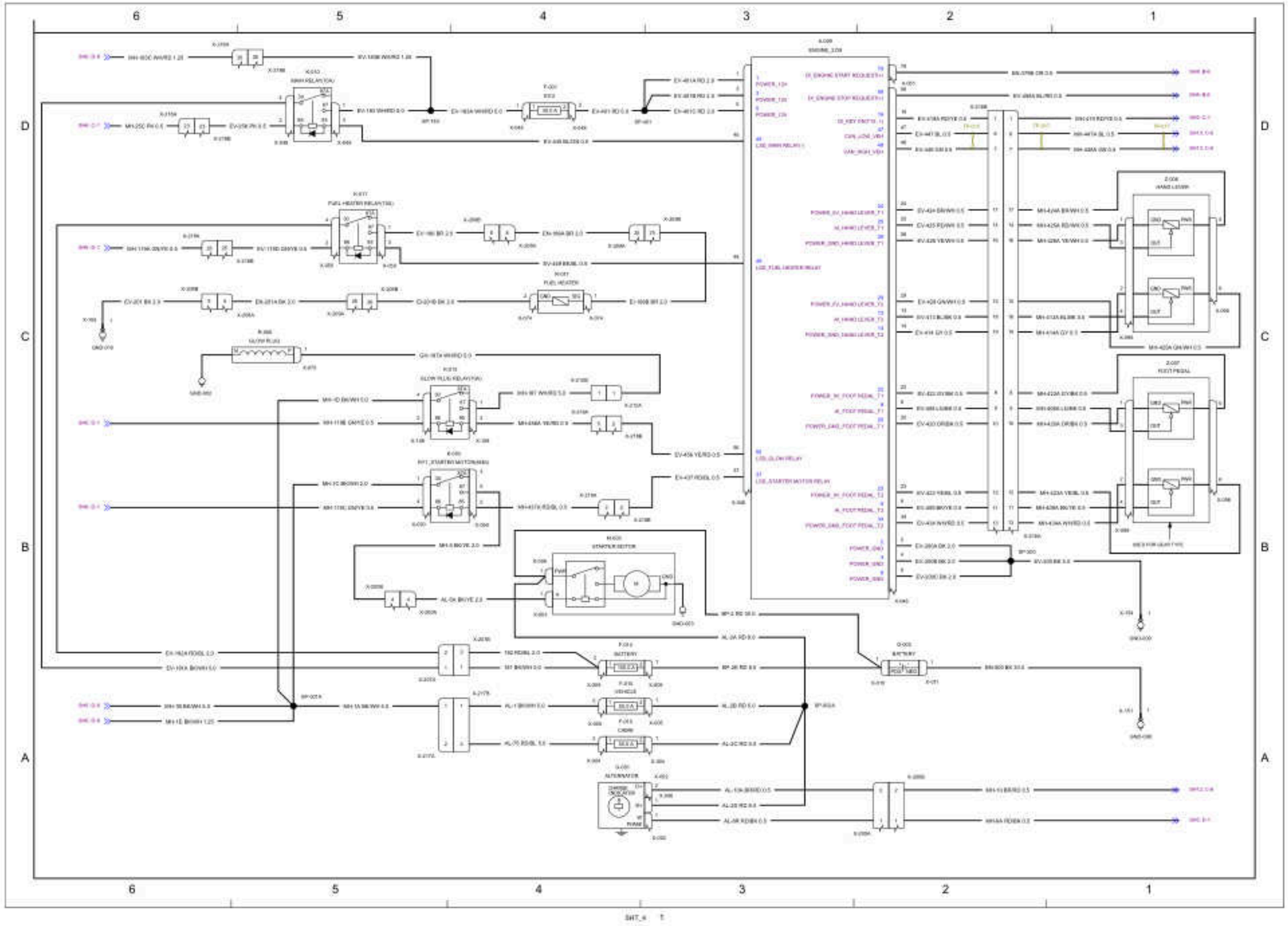
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Hydraulic systems - Component localization



Item	Description	Item	Description
(1)	Steering control valve	(3)	Hydrostatic transmission (HST)
(2)	Hydrostatic transmission (HST) filter	(4)	Transmission/hydraulic oil cooler

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