SERVICE MANUAL

Workmaster™ 35
Workmaster™ 40
Tier 4B (final)
Compact Tractor

Workmaster™ 35 ROPS - From PIN LSM0W35Rxx0010001 to LSM0W35RHH0010200
Workmaster™ 40 ROPS - From PIN LSM0W40Rxx0010001 to LSM0W40RKH0010198

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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
Electrical systems 55
[55.000] Electrical system 55.1
[55.100] Harnesses and connectors 55.2
[55.525] Cab engine controls 55.3
[55.201] Engine starting system 55.4
[55.301] Alternator 55.5
[55.640] Electronic modules 55.6
[55.031] Parking brake electrical system 55.7
[55.512] Cab controls 55.8
[55.023] Transmission position sensors and switches 55.9
[55.052] Central or middle Power Take-Off (PTO) control system 55.10
[55.610] Ground speed control 55.11
[55.DTC] FAULT CODES 55.12
Platform, cab, bodywork, and decals 90
[90.110] Operator platform less cab 90.1

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HST transmission tractor external brake linkage components

Reference	Description	Quantity
1	Assembly, Brake rod	1
2	Assembly, Brake rod (HST)	1
3	Shaft, Brake (HST)	1
4	Spacer, OD M45 x ID 25mm x Length 74mm	1
5	O - ring, Diameter M24.7 x Width 3.5mm	2
6	Bushing	2
7	Pedal, Brake Right hand (HST)	1
8	Pedal, Brake Left hand (HST)	1
9	Bumper, Rubber M8 x 1.25mm x 20mm	2
10	Spring, Diameter M2.6 x 18mm x Length 115mm	2
11	Pin, spring Diameter M8 x Length 40mm	1
12	Washer, O.D. M44 x I.D. 25mm x 4T	1
13	Snap ring, M25	1
14	Knob, Park brake	1
15	Ratchet, parking (HST)	1
16	Bracket, Brake (HST)	1
17	Spring, Parking (HST)	1
18	Bolt, Hex M10 x 1.25 x 35mm	1
19	Bolt, Hex M10 x 1.25 x 25mm	1
20	Pin, O.D. M14 x I.D. 10mm x 26mm O.L.	4
21	Washer, O.D. M21 x I.D. 10.5 x 2	4
22	Pin, split Diameter M25 x Length 20mm	4
23	Switch, proximity	1
24	Bolt, hex M5 x PO 0.8 x length 30mm	2
25	Nut, flange M5 x PO .8	2
26	Switch, neutral (Micro) **125 V** (**125 V**) AC / **15 A·h** (**15 A·h**)	1
27	Clamp, switch	1
28	Screw M4 x 0.7 x 30mm	2

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s1613 F11 (P062E) - Injector bank 2 fault

Control Module: ECU

Context:
Hardware errors in the injectors and their respective Engine Control Unit (ECU) **A-009** power stages are investigated within the ECU. The injector control scheme also groups the individual injector control circuits into banks. The ECU **A-009** diagnostic procedure uses pattern detection to identify specific injector as well as bank errors. When an expected combination of errors is detected, the associated fault occurs. If a short circuit failure condition exists in bank 2, this fault will occur.

Cause:
The ECU **A-009** has determined that a short circuit condition exists in injector control bank 2.

Possible failure modes:

1. Faulty bank 2 injector, internal failure
2. Faulty bank 2 injector wiring, open or shorted
3. Faulty ECU **A-009**, software

Solution:

1. Verify fault is present and active.

   Use the Electronic Service Tool (EST) to check the status of this fault.

   A. If the fault is present and active, continue with Step **2**.

   B. If the fault is no longer present or is in an inactive state, the fault may be intermittent and not currently active. Continue with Step **3**.

2. Check for bank 2 injector related fault codes.

   Use Electronic Service Tool (EST) to check for any codes related to bank 2 (cylinder 3)

   A. If bank 2 cylinder related faults are present, continue with the diagnostics for those codes.

   B. If no bank 2 cylinder related faults are present, the ECU **A-009** might not have the proper software installed. Flash the ECU **A-009** to the most current software.

3. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while you monitor the display.

   A. If you find damage or the display indicates other than normal display readings, then repair the damage discovered during the inspection or locate and repair the other than normal display condition and verify that the error has been resolved.

   B. If you do not find damage and the display indicates only normal readings, then erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 02 (55.100)

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A. If there is continuity on all of the checks, check the ECU **A-009** for the appropriate software and re-flash, if necessary.

B. If there is no continuity on one or more of the checks, use the electrical schematics to locate and repair the failure.

12. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while you monitor the display.

A. If you find damage or the display indicates other than normal display readings, then repair the damage discovered during the inspection or locate and repair the other than normal display condition and verify that the error has been resolved.

B. If you do not find damage and the display indicates only normal readings, then erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 02 - ENGINE SIDE 1 (55.100.DP-C.20.E.02)
Wiring harnesses - Electrical schematic sheet 04 - ENGINE VEHICLE SIDE (55.100.DP-C.20.E.04)

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NHPH17CT0025TTA(1) 2

Item	Description
(1)	Alternator



NHPH17CT0026STA 3

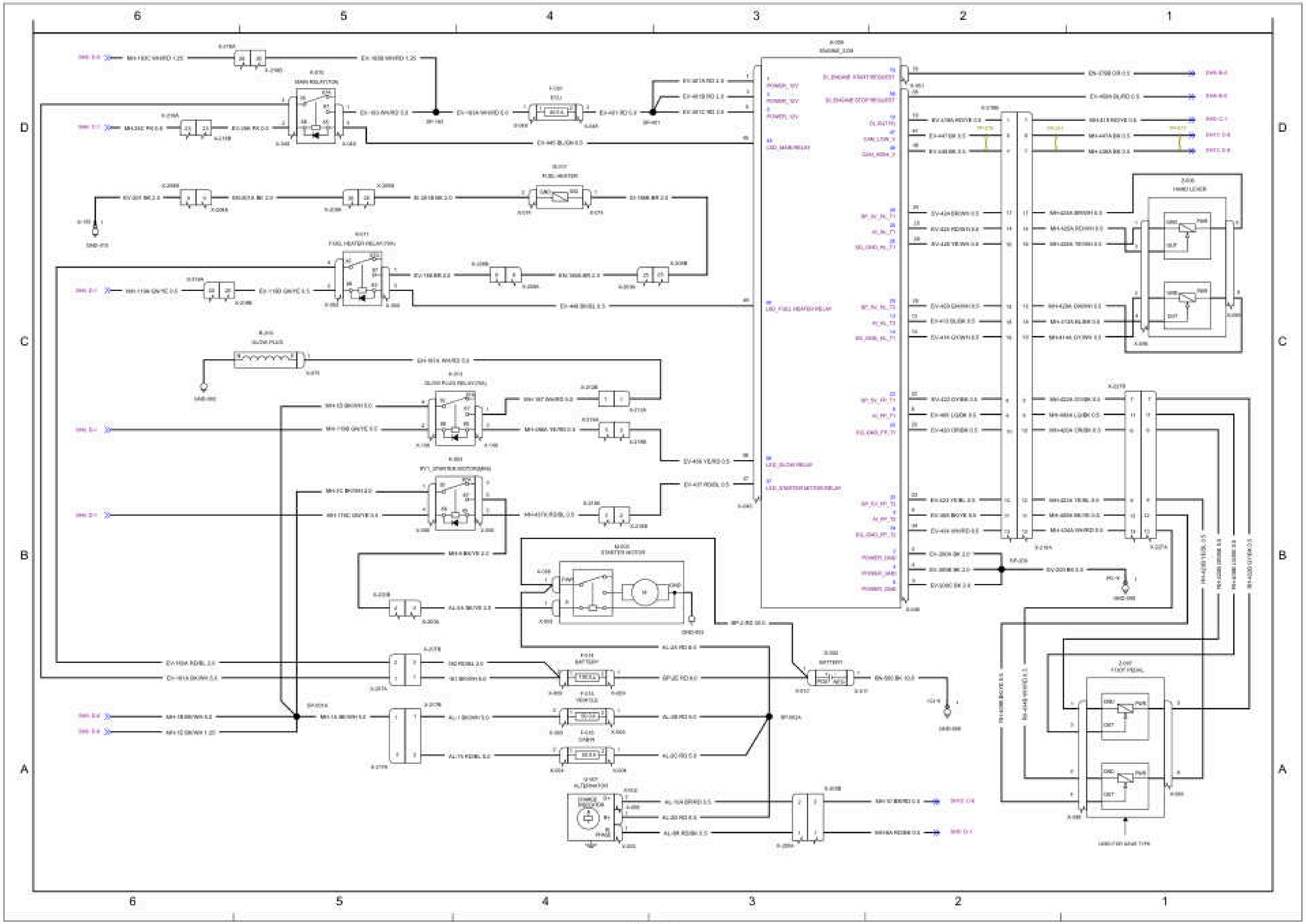
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Hydraulic systems - Component localization



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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