SERVICE MANUAL

W50C / W60C / W70C / W80C
Tier 4B (final)
Compact Wheel Loader

Part number 47829080B
English
May 2015

NEW HOLLAND CONSTRUCTION

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TIER 4B (FINAL)
COMPACT WHEEL LOADER

SERVICE MANUAL
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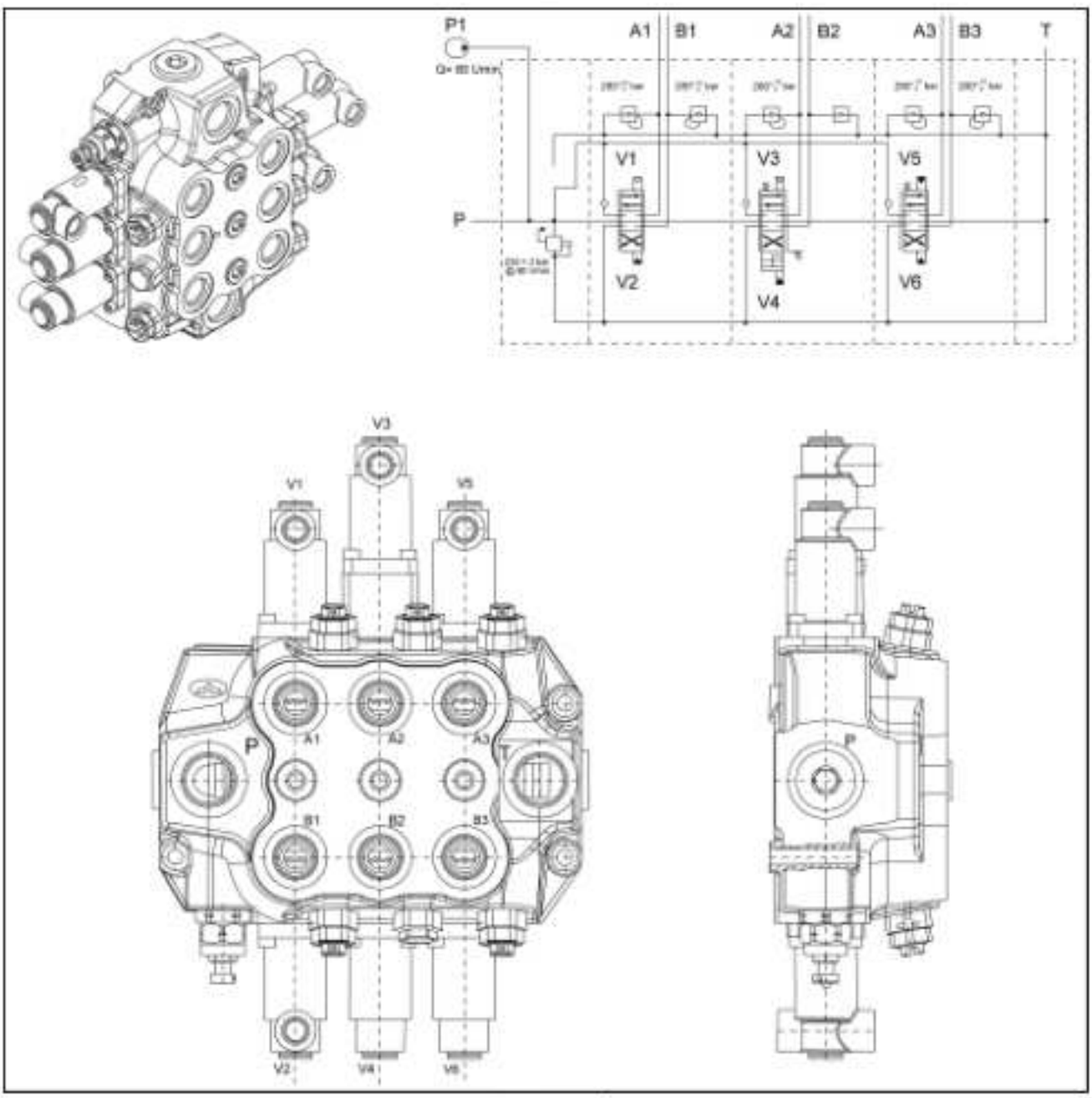
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Main control valve - General specification

W50C ZB	NA — WE
W60C ZB	NA — WE
W70C HS	NA — WE
W70C	NA — WE
W80C HS	NA — WE
W80C	NA — WE

Nominal flow	**80 L/min (21.1 US gpm)**
Nominal pressure	**280 bar (4060 psi)**
Maximum back pressure	**25 bar (362 psi)**
Seal material	VITON
Fluid temperature	**-20 °C (-4 °F)** to **112 °C (234 °F)**
Environmental temperature	**-20 °C (-4 °F)** to **60 °C (140 °F)**



LEIL14CWL003HDA 1

A1. - B1. Auxiliary function
A2. - B2. Lift arm cylinder
A3. - B3. Loader bucket control cylinder

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Harnesses and connectors - Electrical schematic sheet 25

W50C ZB	NA — WE
W60C ZB	NA — WE
W70C HS	NA — WE
W70C	NA — WE
W80C HS	NA — WE
W80C	NA — WE

Compact Wheel Loader Optional, front auxiliary electrical system, cab side

Location	Component	Code component
4	Fuse AUX front electric (**25 A**)	F-066
4	Fuse not used	F-067
4	Fuse not used	F-068
4	Fuse not used	F-069
4	Fuse not used	F-070
4	Fuse water on/off switch (**15 A**)	F-071
4	Fuse side shift switch (**7.5 A**)	F-072
4	Fuse LH depth switch (**7.5 A**)	F-073
4	Fuse RH depth switch (**7.5 A**)	F-074
4	Fuse not used	F-075
4	Fuse holder front AUX plug (Z-008)	Z-088
10	LH depth sw (Optional)	S-023
4	Relay AUX front electric (K-016)	K-016
10	RH depth switch (Optional)	S-022
10	Side shift switch (Optional)	S-024
10	Water on/off (Optional)	S-025

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3668-Over temperature error for H-bridge

W50C ZB	NA — WE
W60C ZB	NA — WE
W70C HS	NA — WE
W70C	NA — WE
W80C HS	NA — WE
W80C	NA — WE

Context:
ECU Power stages: Over temperature error on the turbocharger PWM output power stage.

Cause:
The ECU detects an excess current draw on the turbocharger waste gate signal wire.

Possible failure modes:

1. Faulty wiring.
2. Faulty EGR valve.
3. Faulty ECU.

Solution:

1. Verify that the fault code present on EST.

   Access the Electronic Service Tool fault code screen and monitor the fault codes.

   Verify that there are no fault codes pertaining to high battery voltage to the ECU or high fluid temperatures.

   A. Fault code 3668 is active with other fault codes such as FC3051 or FC3518 or FC3007 and FC1002. Troubleshoot these fault codes before troubleshooting this code.

   B. Fault code 3668 is not recorded again. OK to return the machine to service.

   C. Fault code 3668 is active and recorded again. Go to step **2**.
2. Verify that the wiring and connectors are free of damage.

   Inspect the ECU and the EGR valve. All connections should be secure, tight, free of corrosion, abrasion and damage.

   Inspect the harness from the ECU to the EGR valve. Verify that the harness is free of damage, corrosion, abrasion and incorrect attachment.

   A. The connectors are secure and the harness is free of damage. Go to step **3**.

   B. The connectors or the harness has damage. Repair or replace the harness or connectors as required. Return to step **1** to confirm elimination of fault.
3. Measure the resistance through the wiring harness.

   Turn the ignition switch OFF.

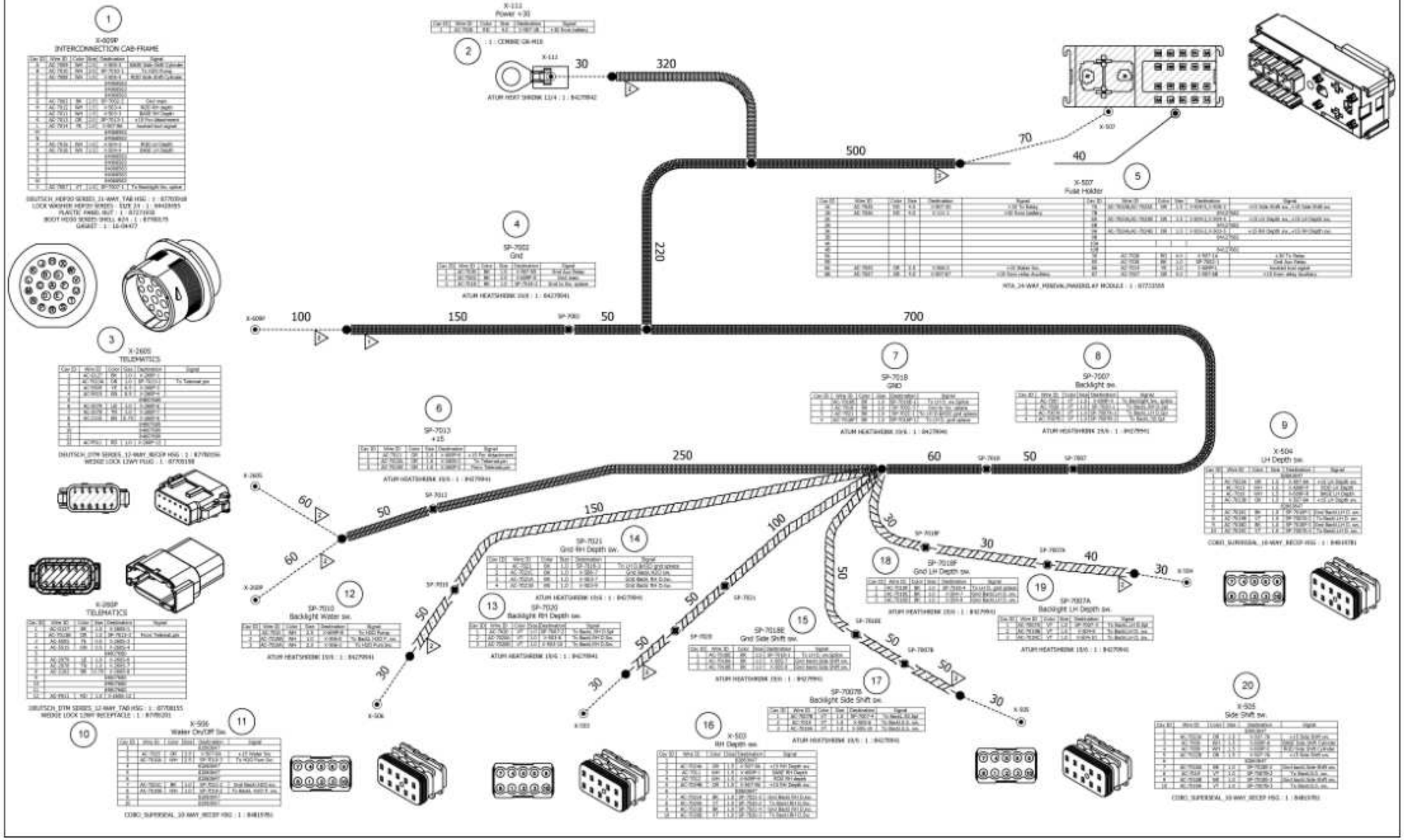
   Disconnect the EGR Valve connector. Disconnect the ECU connector.

   Measure the resistance between ECU connector X-078 pin 50 and EGR valve motor plus pin. The resistance should be less than **10 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

   A. The resistance is less than **10 Ω**. Go to step **4**.

   B. The resistance is greater than **10 Ω**. There is an open circuit in the wire. Repair or replace the wire as required. Return to step **1** to confirm elimination of fault.
4. Measure the resistance through the wiring harness to chassis ground.

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