SERVICE MANUAL

W110D
Stage IV
Wheel Loader

Part number 51428226
English
November 2017

NEW HOLLAND CONSTRUCTION

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Articulation frame pivot - Install

Connecting the front frame to the rear frame

1. Release the parking brake.
2. Use a suitable hoisting equipment and move the rear frame into alignment with the front frame.
3. Move the steering cylinders as required to move the rear frame into alignment with the front frame.
4. Apply the parking brake.

Upper pivot pin installation

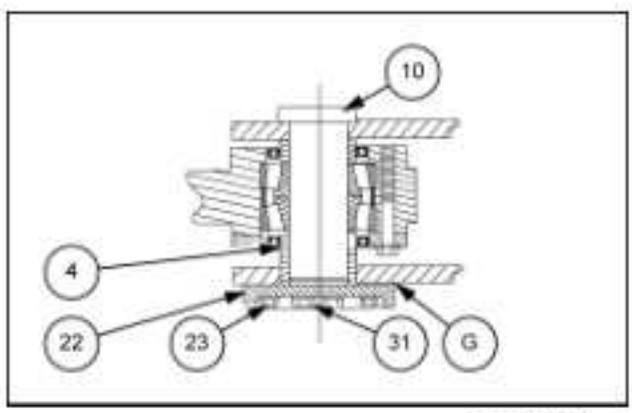
NOTE: *for the numbering, refer to* ***Articulation frame pivot - Exploded view (39.100)****.*

5. Apply grease to the upper pivot pin **(15)**.
6. Install the upper pivot pin **(1)**, the spacer **(16)**, the washer **(17)**, and the bolt **(18)**. Be careful not to damage the seal **(13)**.
   Apply on drop of 15W40 engine oil to the bolt.
   Tighten the bolt **(18)** to **224 – 278 N·m** (**165 – 205 lb ft**).

Lower pivot pin installation

NOTE: *for the numbering, refer to* ***Articulation frame pivot - Exploded view (39.100)****.*

7. Apply grease to the lower pivot pin **(10)** and install it from top, down through the frame articulation plates **(Y)** and **(Z)**.
8. Install the spacer **(4)** sliding through the lower plate of the front chassis lower joint **(Y)** until the spacer **(4)** is in contact with the bearing **(1)**.
9. Install the retainer plate **(22)** to the lower pivot pin **(10)**, using three inner screws **(31)**.
   Tighten the screws **(31)** to **69 N·m** (**51 lb ft**).
10. Measure the gap **(G)** between the lower plate **(Y)** and the bottom of the lower pivot pin **(10)**.
    Make a record of the measurement.
    Subtract **0.0762 – 0.1016 mm** (**0.003 – 0.004 in**) from the measurement.
    Select shims **(19)**, **(20)**, or **(21)** equal to that value.
11. Loosen the inner screws **(31)**.
12. Install the shims, the washers **(6)**, and the outer bolts **(23)**. Apply one drop of 15W40 engine oil to each bolt.
    Tighten the bolts **(23)** to **124 – 132 N·m** (**91 – 97 lb ft**).
13. Remove the inner screws **(31)**.
    Apply one drop of **LOCTITE® 243™** to each screw.
    Tighten the screws **(31)** to **224 – 278 N·m** (**165.2 – 205 lb ft**).



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Wiring harnesses - Electrical schematic sheet 39 SH39 - MISCELLANOUS, REAR CAMERA

Type	Component	Connector / Link	Description
ECU	**A-DISPLAY**		
ECU	**A-ORLACO CAMERA**		REAR VIEW CAMERA
ECU	**A-SFB**	**X-X6**	SMART FUSE BOX
Connector	X-CAB_E	**X-CAB_E**	CAB TO ENGINE
Connector	X-CAM	**X-CAM**	REAR CAMERA
Connector	X-CAM2	**X-CAM2**	CAMERA CHORD
Connector	X-ENG	**X-ENG**	ENGINE TO CAB
Connector	X-LC2	**X-LC2**	LOADCENTER 2
Connector	X-X6	**X-X6**	SFB

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Use a multimeter to perform the following voltage check:

From	To	Value
X-9002 pin 58	Chassis ground	There should be no voltage.
X-9002 pin 83	Chassis ground	There should be no voltage.

A. If there is voltage, there is a short to key power condition in the fuel metering unit Y-9000 wiring. Locate the repair the shorted conductor.

B. If there is no voltage, continue to Step **5**.

5. Replace the fuel metering unit Y-9000.

Use the EST to verify the status of this fault code.

A. If the fault has been resolved, return the machine to service.

B. If the fault has not been resolved, check the ECU for the appropriate software and re-flash, if necessary.

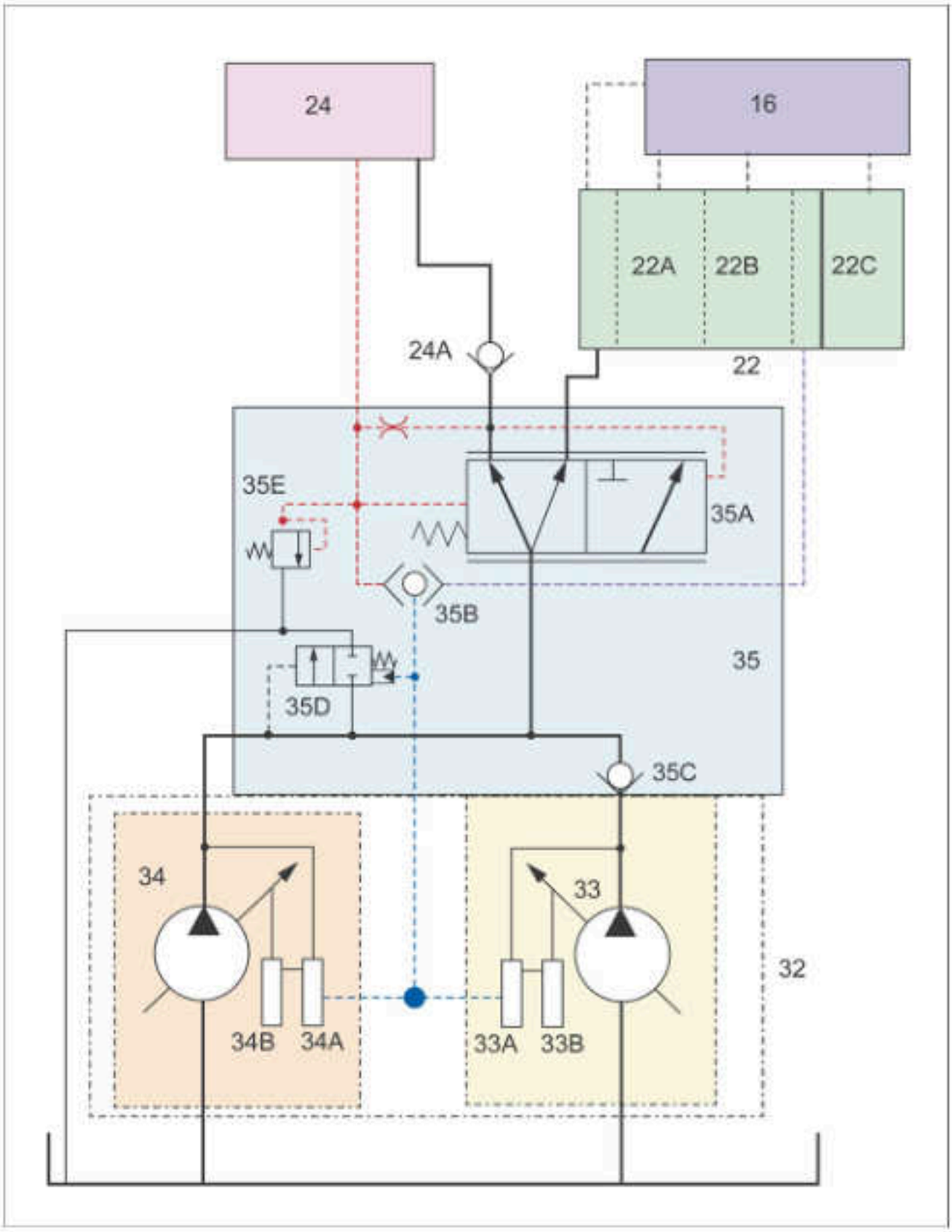
6. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while you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

A. If you find damage or the display indicates other than normal display readings, 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, erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 05 (55.100)

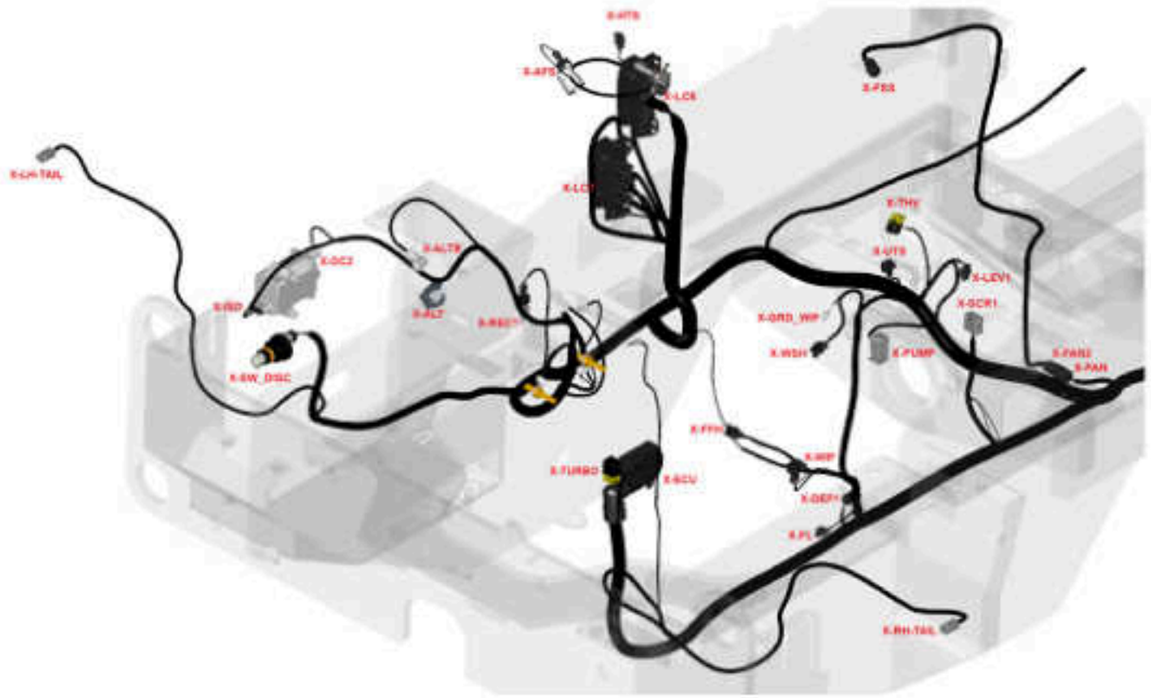
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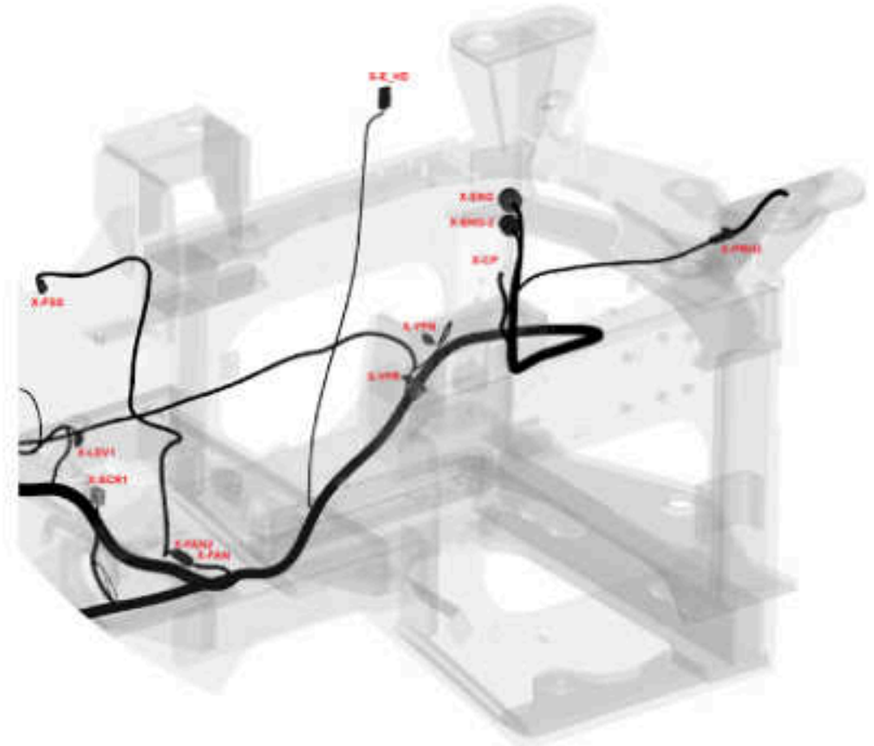


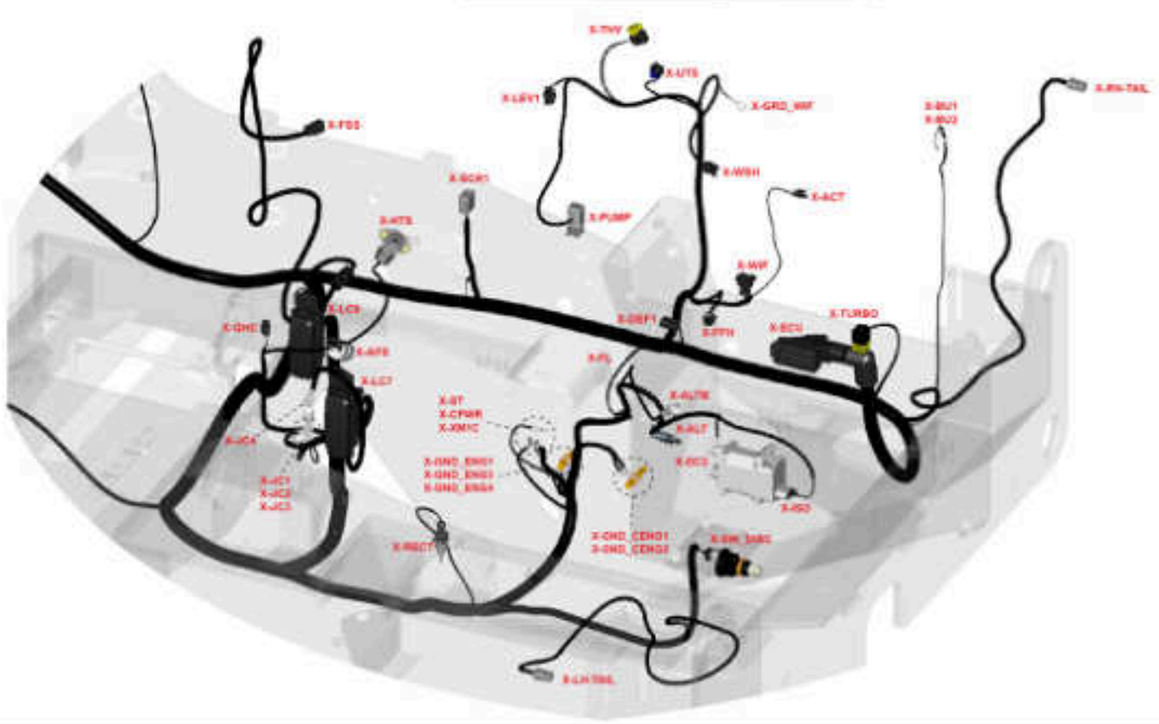
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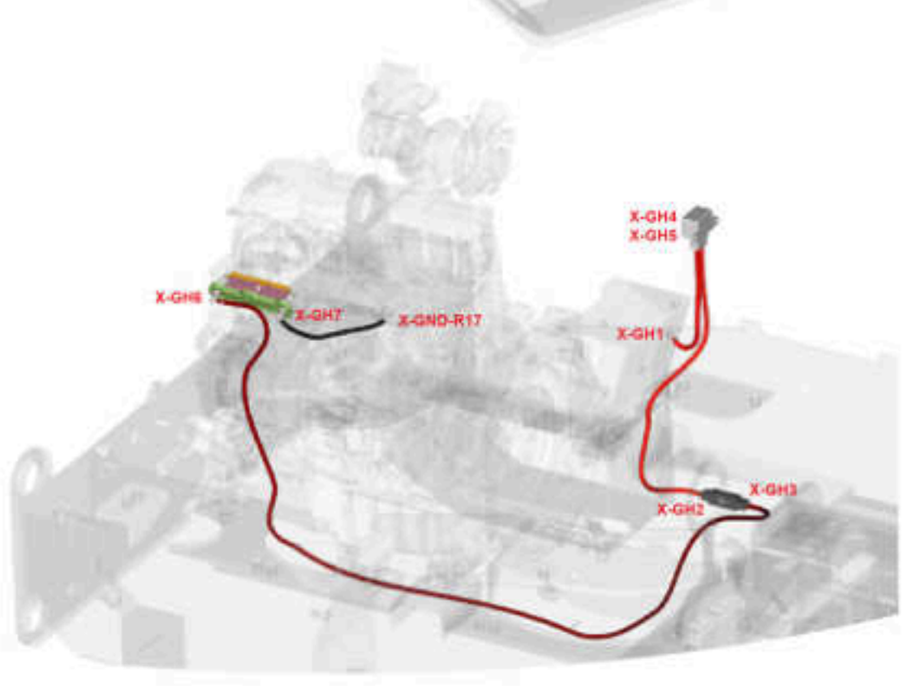
Component Flow Chart

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