SERVICE MANUAL

W190D
W230D
Tier2
Wheel Loader

Part number 48083745
English
July 2018

NEW HOLLAND CONSTRUCTION

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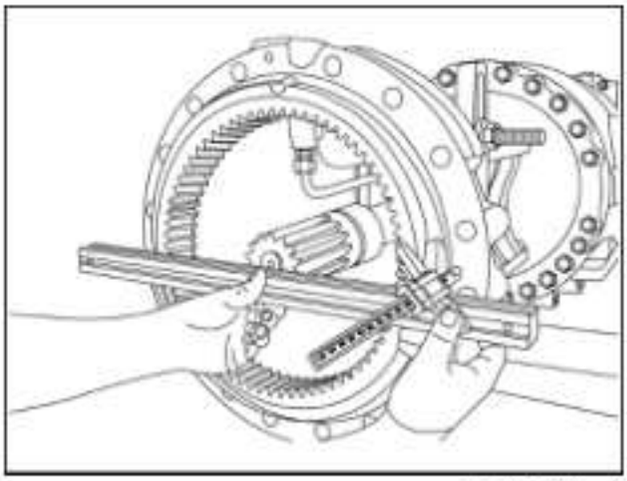
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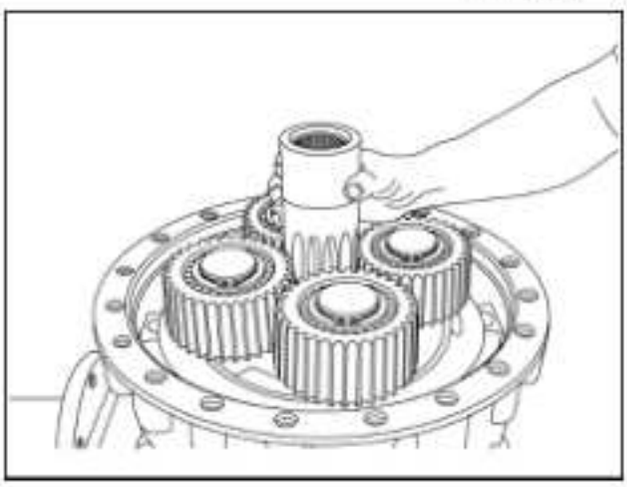
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4. By using a straight edge, measure the dimension II, from the front face of the sun gear shaft to the mounting surface of the axle housing. Dimension II e.g. **38.20 mm** (**1.50 in**). CALCULATION EXAMPLE: Dimension I: **40.80 mm** (**1.61 in**) Dimension II: **38.20 mm** (**1.50 in**) Difference: **2.60 mm** (**0.10 in**) Required axial play e.g.: **1.00 mm** (**0.04 in**) Difference = shim e.g.: s = **1.60 mm** (**0.06 in**).



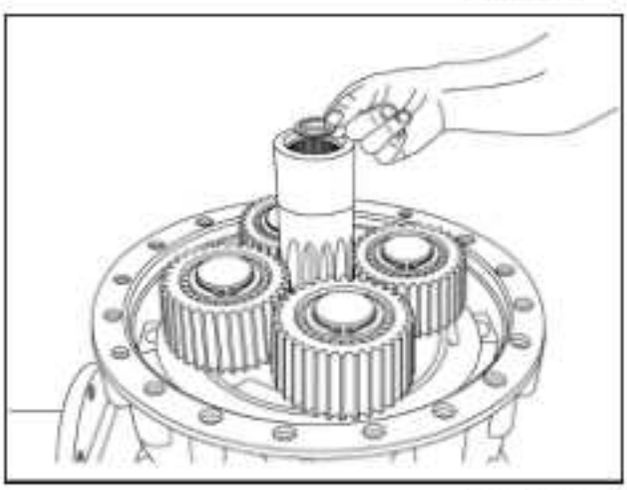
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5. Insert the sun gear shaft into the planetary carrier.



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6. Insert the shim(s) e.g. s = **1.60 mm** (**0.06 in**) with grease into the sun gear shaft.



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Wiring harnesses - Electrical schematic sheet 21 (55.100)

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A. If the fuse is damaged, replace the fuse.

B. If the fuse is not damaged, continue with Step **6**.

6. Check the Battery K Isolator.

The key must be in the OFF position.

Use a multimeter to perform the following voltage check:

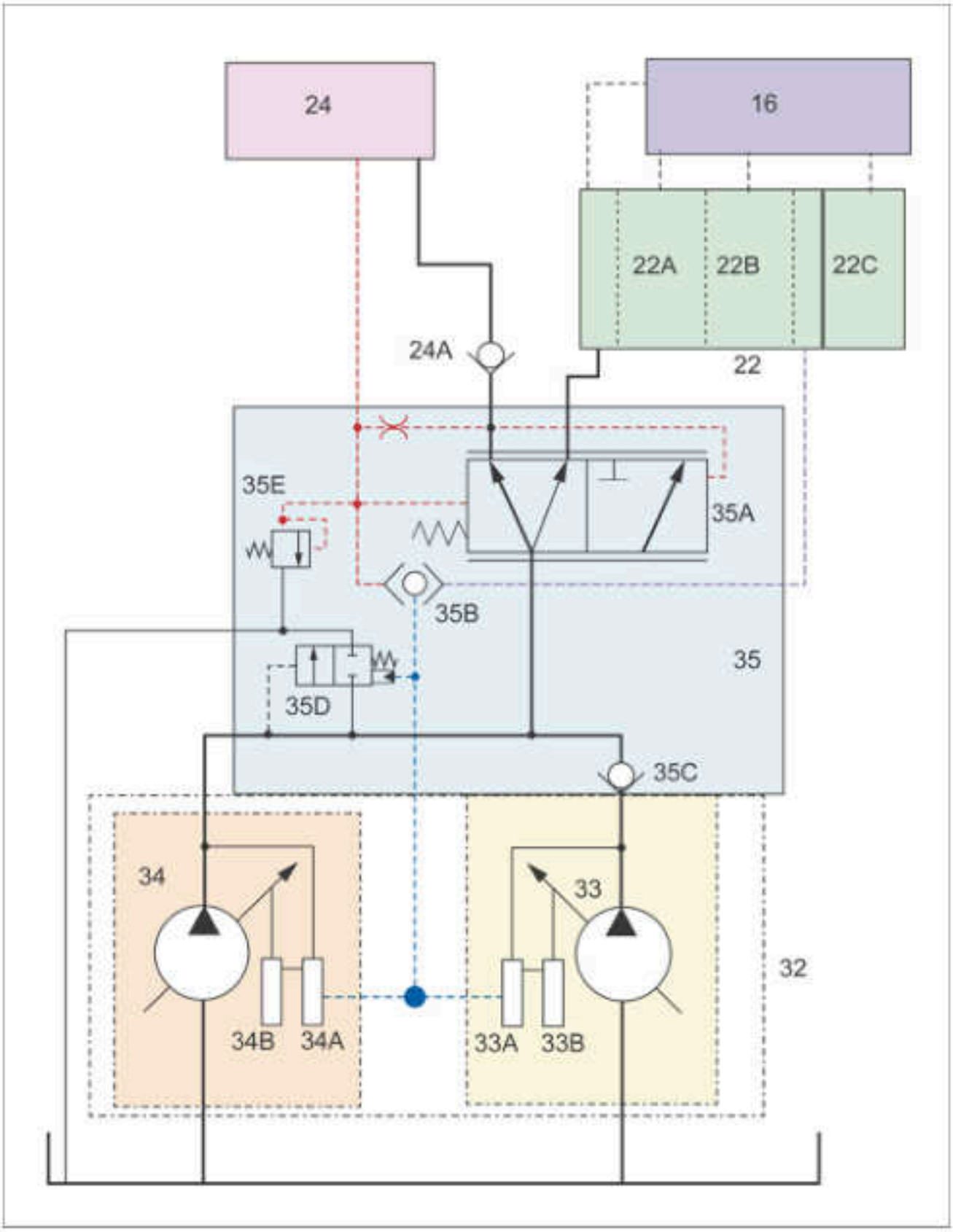
From	To	Value
Connector **X-ISO** pin 1	Chassis ground	There should be an open circuit
Connector **X-ISO** pin 2	Chassis ground	There should be an open circuit
Connector **X-ISO** pin 3	Chassis ground	There should be a short

A. Verify the Battery K Isolator Power supply (pin X-D)

B. If Battery K Isolator is right functioning, replace the Smart Fuse Box.

Wiring harnesses - Electrical schematic sheet 03 (55.100)
Wiring harnesses - Electrical schematic sheet 04 (55.100)
Wiring harnesses - Electrical schematic sheet 06 (55.100)

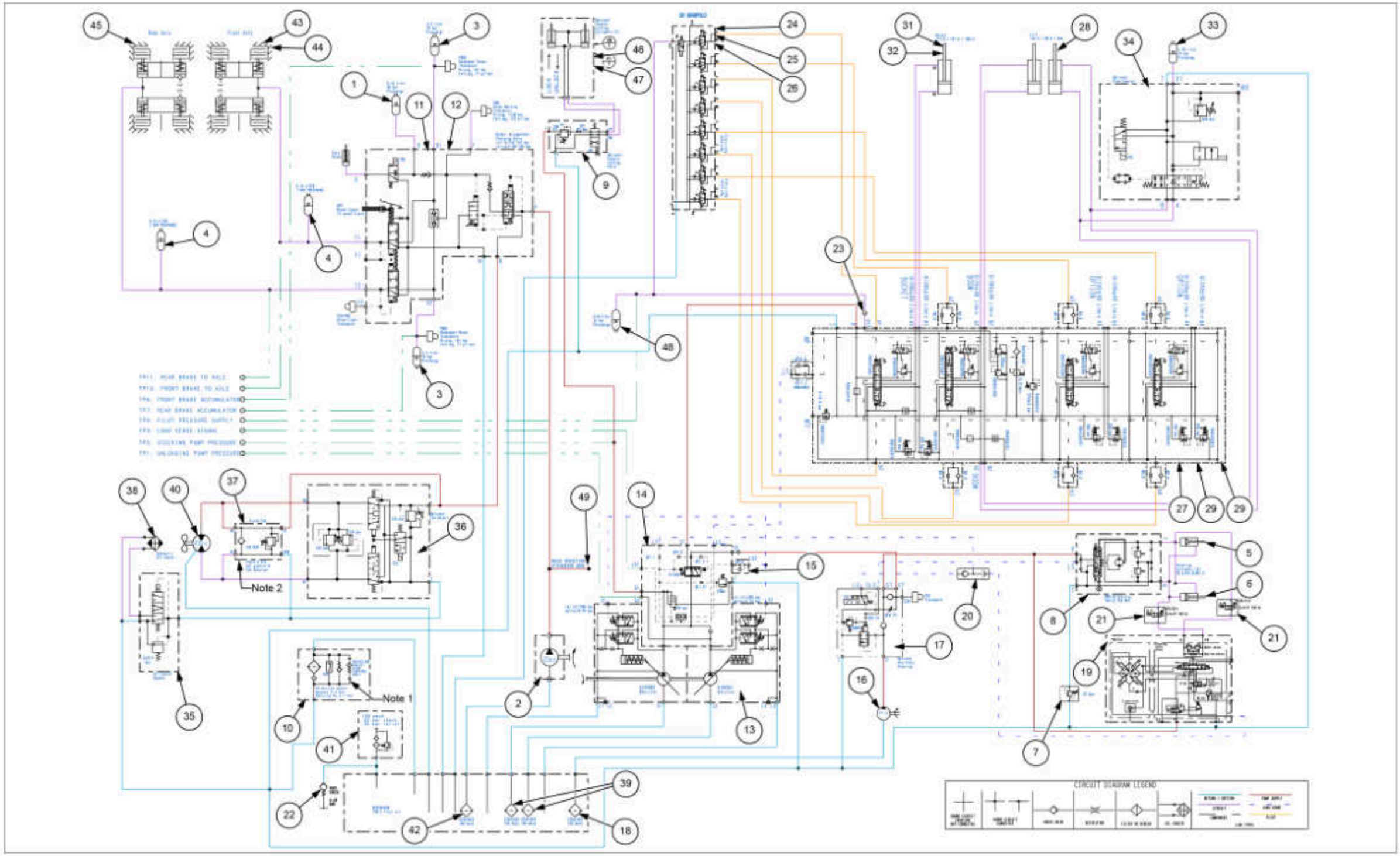
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Component Flow Chart

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