1021G
1121G
Tier 4B (final)
Wheel Loader

SERVICE MANUAL

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CASE CONSTRUCTION

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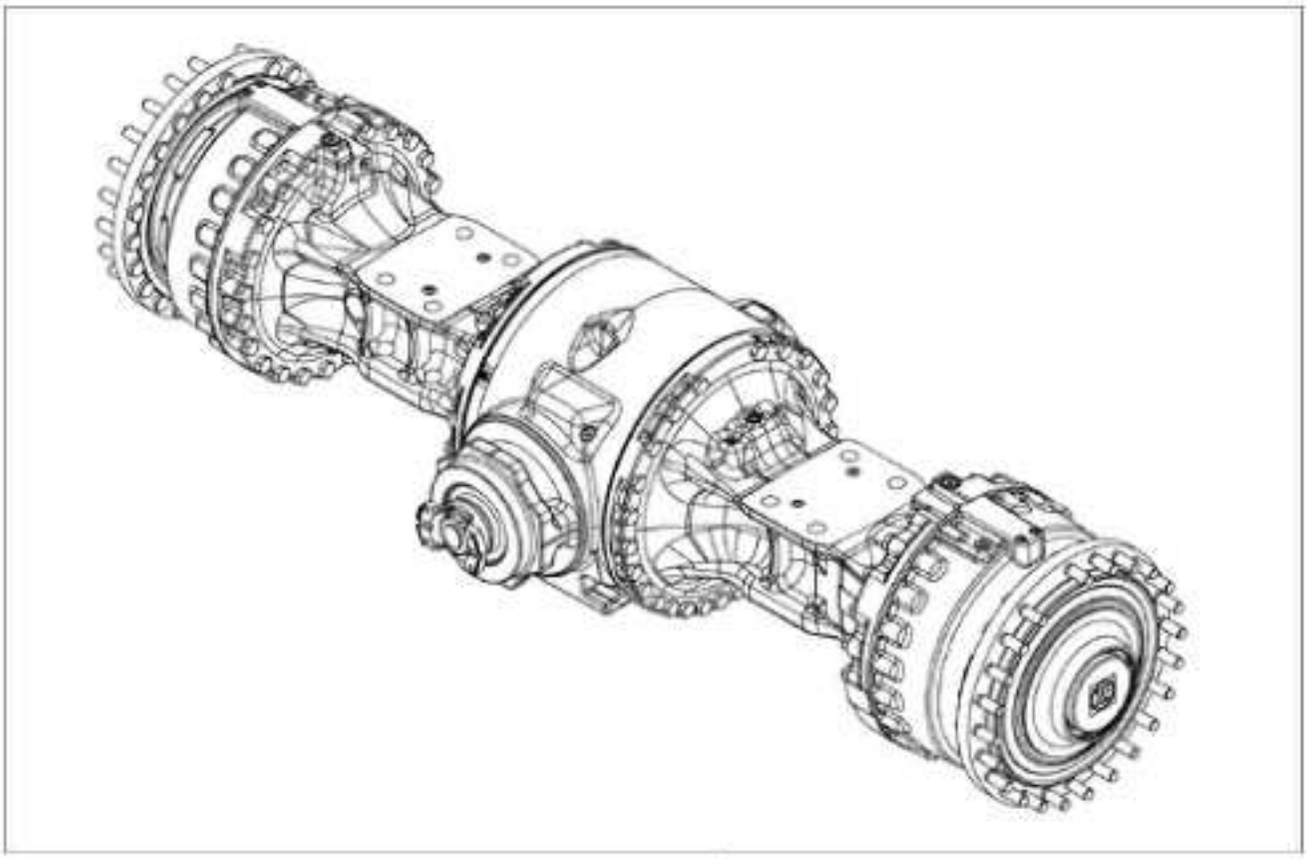
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Front Axle Model MT-L3115II - Open Differential

Front Axle Model MT-L3115II - Locking Differential



LEIL15W9HL1220FA 2

OVERALL WIDTH	**2493 mm (98 in)**
DISTANCE FLANGE TO FLANGE	**2314 mm (91 in)**
WHEEL MOUNTING BOLT CIRCLE DIAMETER	**500 mm (20 in)**
WHEEL MOUNTING BOLTS	23 (M22x1.5)
HUB RATIO	6.353:1
CROWN/PINION RATIO	4.25:1
OVERALL RATIO	27:1

Lubrication capacity for heavy duty axles	**62.0 l (65.5 US qt)**
Lubrication capacity for heavy duty axles with axle cooler	**65.7 l (69.4 US qt)**
Sun gear shaft end play	**0.5 – 2.0 mm (0.02 – 0.08 in)**
Drive pinion rolling torque	**1.5 – 5.0 N·m (13 – 44 lb in)**

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

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Use a multimeter to perform the following check:

From	To	Value
Connector **X-FAX** pin 1	Ground	Open circuit

A. If the measurement is not correct, replace the harness.

B. If the measurement is correct, continue with Step **6**.

6. Check the integrity of connectors **X-BTM_F** and **X-FRNT**.

Disconnect the connector **X-BTM_F** from the connector **X-FRNT** and visually check the integrity of pin A of both connectors.

A. If one pin is damaged, replace the harness relevant to the damaged connector.

B. If all pins are not damaged, continue with Step **7**.

7. Check the integrity of hardness between the connector **X-FRNT** and the FRONT AXLE OIL TEMP.

Connect the FRONT AXLE OIL TEMP.

Use a multimeter to perform the following check:

From	To	Value
Connector **X-FRNT** pin A	Ground	> **25 Ω**

A. If the measurement is not correct, replace the harness.

B. If the measurement is correct, continue with Step **8**.

8. Check the integrity of connectors **X-BTM** and **X-CAB_B**.

Disconnect the connector **X-BTM** from the connector **X-CAB_B** and visually check the integrity of pin 17 of both connectors.

A. If one pin is damaged, replace the harness relevant to the damaged connector.

B. If all pins are not damaged, continue with Step **9**.

9. Check the integrity of hardness between the connector **X-BTM_F** and the connector **X-BTM**.

Connect the connector **X-FRNT** to the connector **X-BTM_F**.

Use a multimeter to perform the following check:

From	To	Value
Connector **X-BTM** pin 17	Ground	> **25 Ω**

A. If the measurement is not correct, replace the harness.

B. If the measurement is correct, continue with Step **10**.

10. Check the integrity of connector **X-UCM4A**.

Disconnect the connector **X-UCM4A** from the **A-UCM** and visually check the integrity of pin 17.

A. If the pin is damaged, replace the harness.

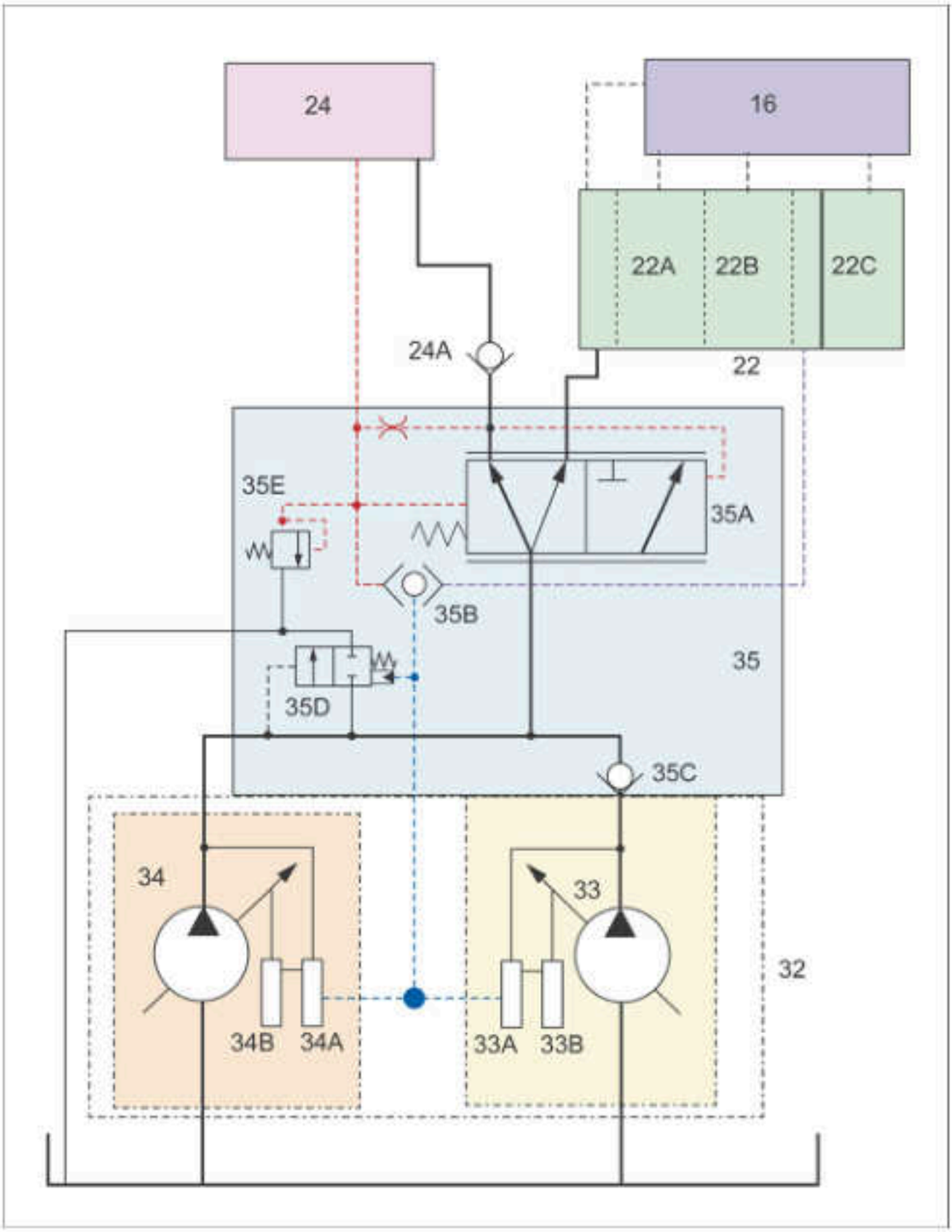
B. If the pin is not damaged, continue with Step **11**.

11. Check the integrity of hardness between the connectors **X-UCM4A** and **X-CAB_B**.

Connect the connector **X-BTM** to the connector **X-CAB_B**.

Use a multimeter to perform the following check:

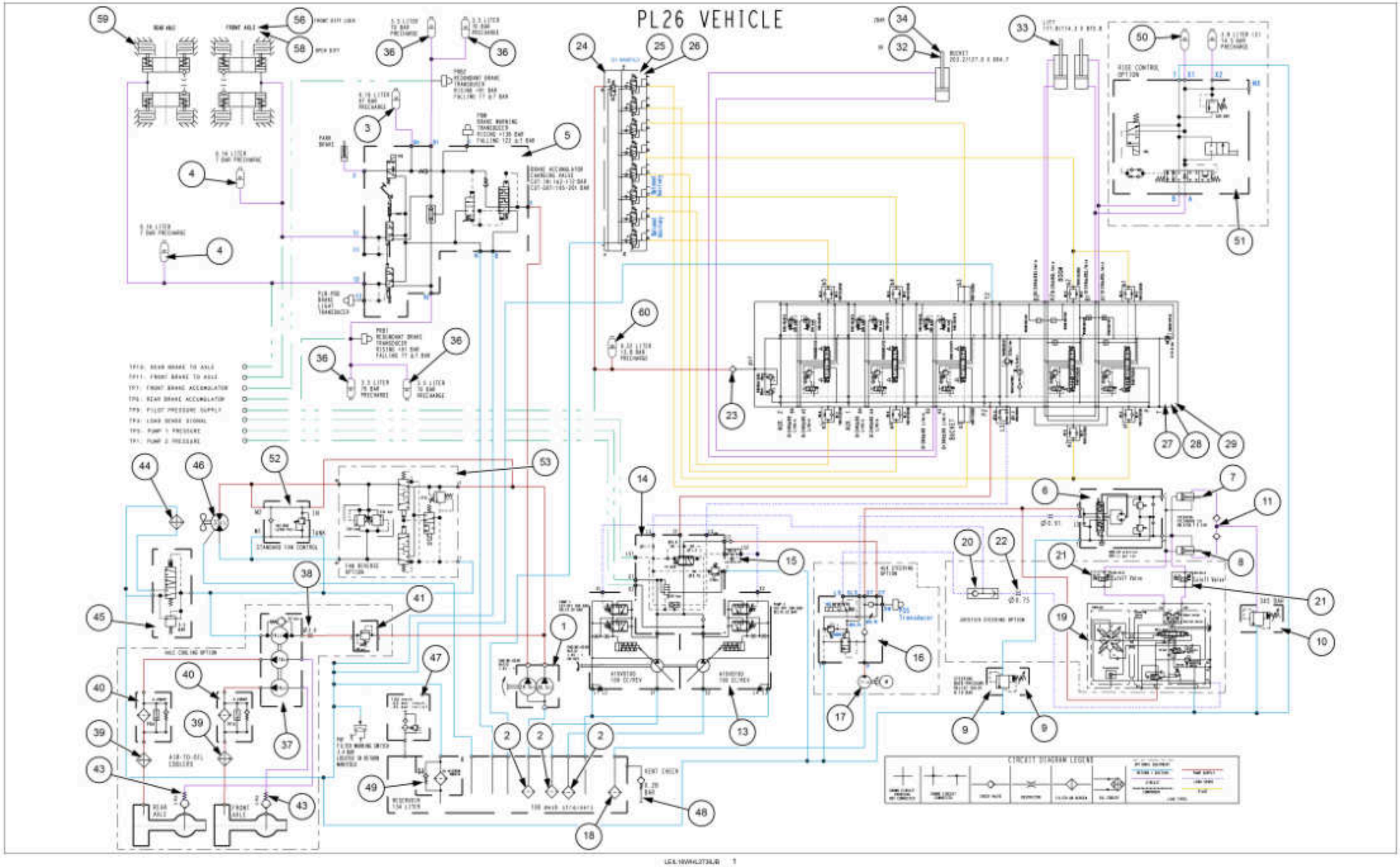
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Component Flow Chart

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