SERVICE MANUAL

W270D
W300D
Tier 2
Wheel Loader

Part number 48083746
English
July 2018

NEW HOLLAND
CONSTRUCTION

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Bevel gear set and differential carrier - Backlash Model 3105 II

⚠CAUTION

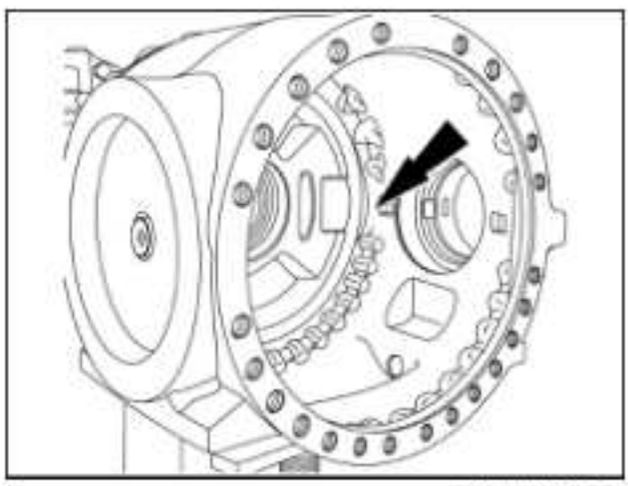
Burn hazard!
Always wear heat-resistant protective gloves when handling heated parts.
Failure to comply could result in minor or moderate injury.

Prior operation:
Differential - Assemble Model 3105 II (25.102)

1. Determine shim thickness to obtain correct gear contact pattern. Read dimension I (arrow) from axle drive housing. Dimension I e.g. **245.60 mm** (**9.67 in**).

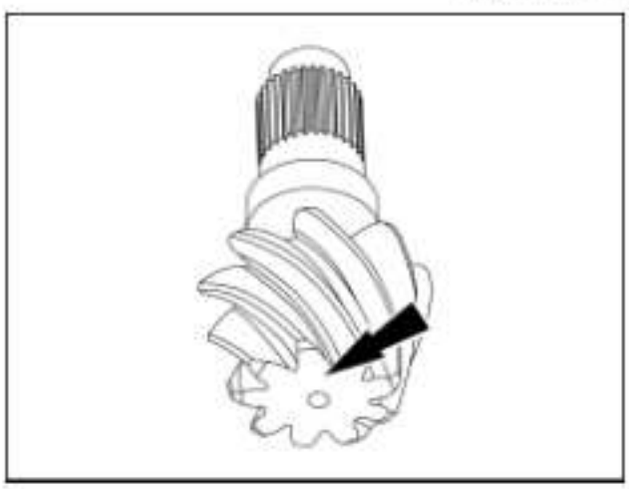
NOTE: *If crown wheel or input pinion are damaged, both parts must be replaced together. In case of an installation of a complete new bevel gear set, pay attention to an identical mating number on input pinion and crown wheel.*

NOTE: *The following measuring procedures must be completed accurately. Inaccurate measurements lead to incorrect contact pattern requiring additional disassembly and reassembly of input pinion and differential.*



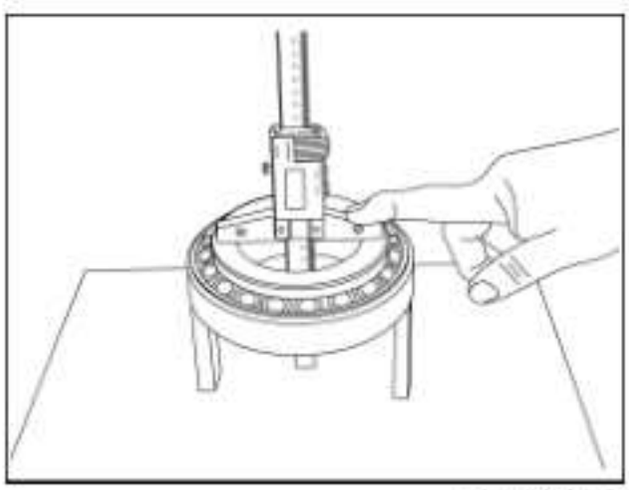
1

2. Read pinion dimension (arrow). Dimension II. Dimension II e.g. **202.00 mm** (**7.95 in**).



2

3. Determine dimension III (bearing width). Dimension III e.g. **42.60 mm** (**1.68 in**). Calculation Example "A": Dimension I: **245.60 mm** (**9.67 in**)Dimension II: **202.00 mm** (**7.95 in**) Dimension III: **42.60 mm** (**1.68 in**) Difference = shim s = **1.00 mm** (**0.04 in**).



3

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B. If the functionality is not restored, replace the **A-UCM**.

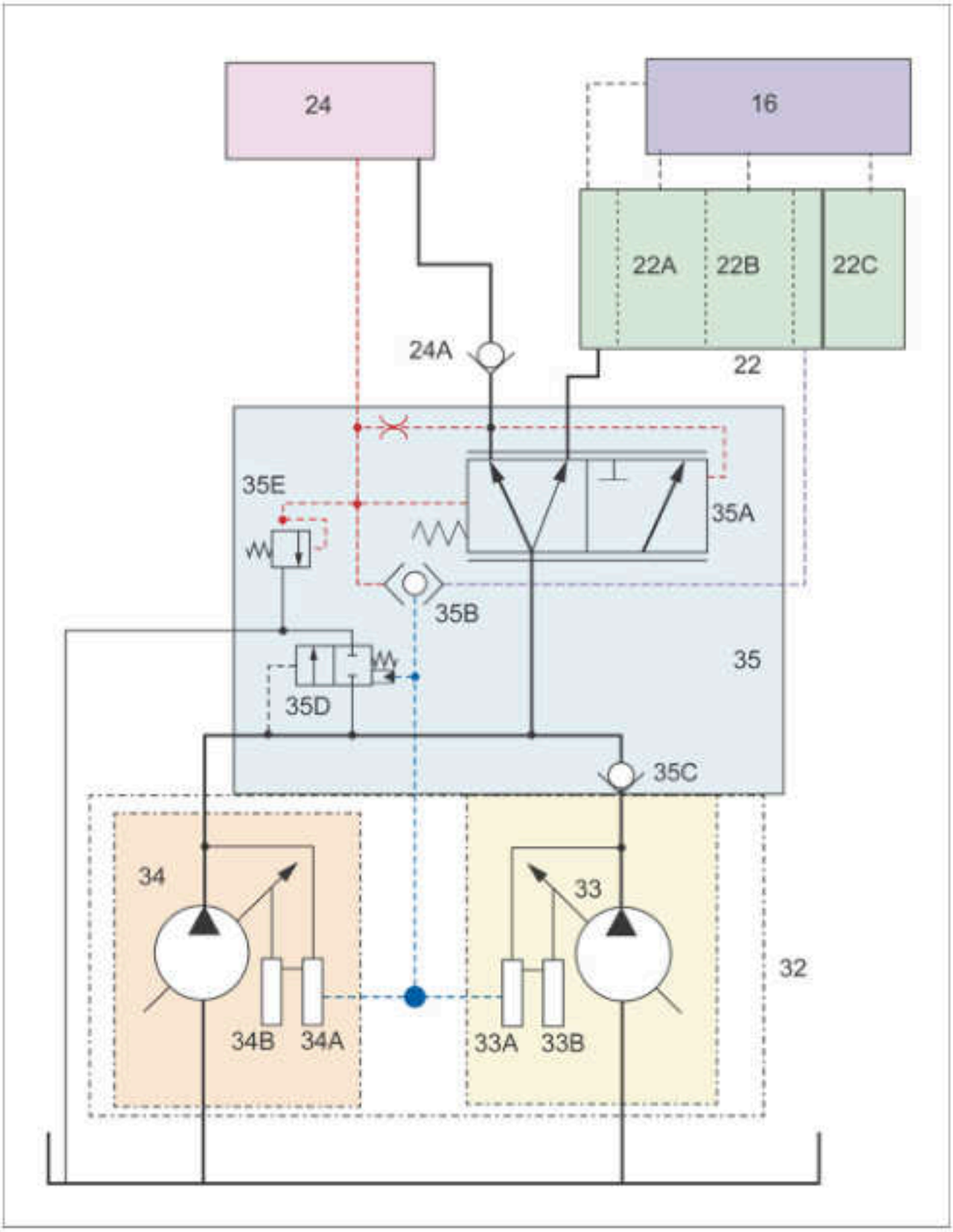
Wiring harnesses - Electrical schematic sheet 08 (55.100)
Wiring harnesses - Electrical schematic sheet 21 (55.100)

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A. If there is a voltage, replace the Smart Fuse Box.

Wiring harnesses - Electrical schematic sheet 36 (55.100)

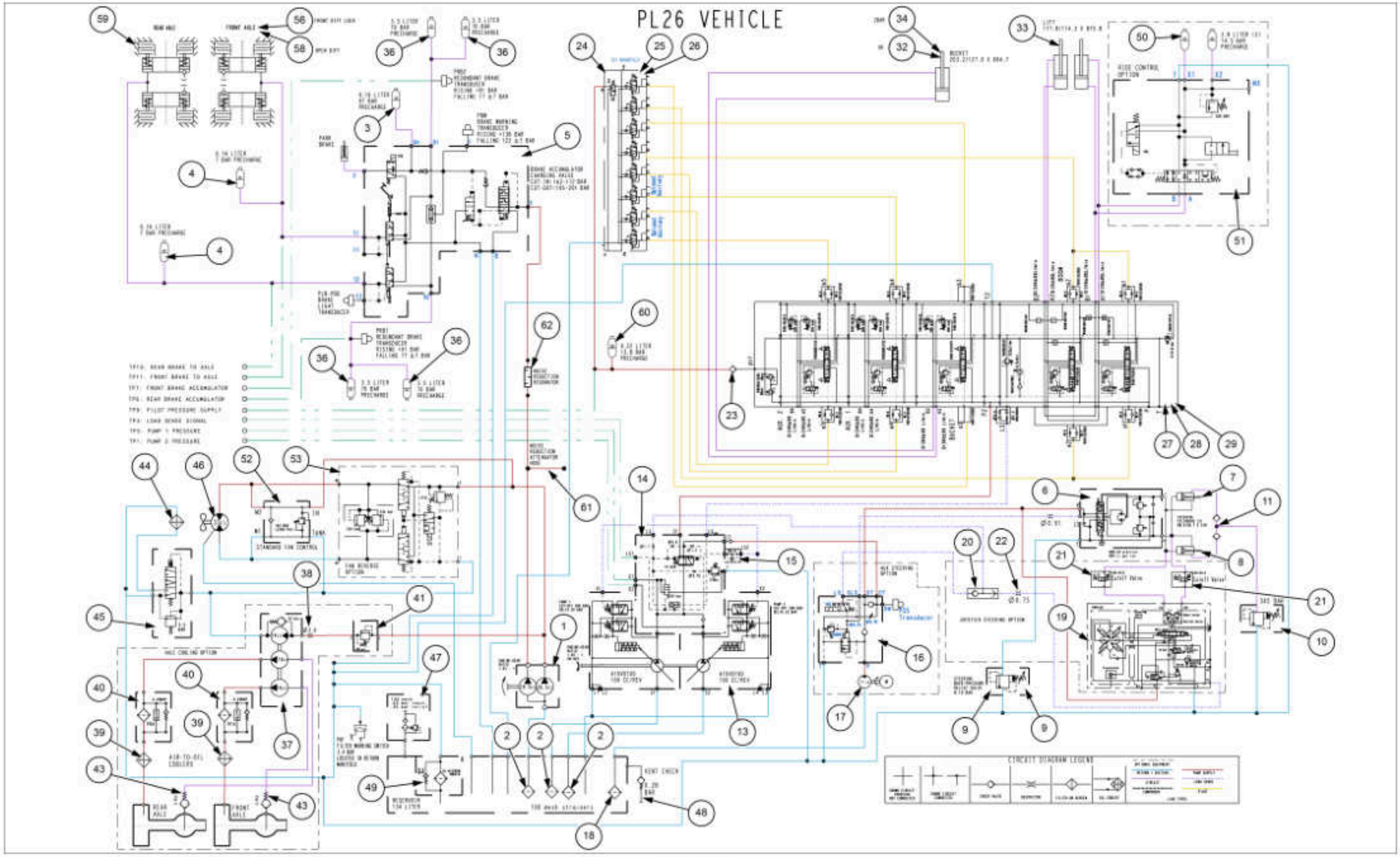
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Component Flow Chart

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