NEW HOLLAND



TN60DA
TN60SA
TN70DA
TN70SA,
TN75DA
TN75SA
TN85DA
TN95DA
Tractors

REPAIR MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

87393595

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The following pages are the collation of the contents pages from each section and chapter of the TNDA and TNSA Series Repair manual. Complete Repair part # 87393595.

The sections used through out all New Holland product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Repair manual and which sections are in each book.

The sections listed above are the sections utilized for the TNDA and TNSA Series Tractors.

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SECTION 00 - GENERAL

BOOK 1 - 87393596

Chapter 1 - General

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SECTION 10 - ENGINE

BOOK 1 - 87393596

Chapter 1 - Engine (Three-Cylinder)

CONTENTS

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	Special Tools	10
	Tightening Torques	12
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10 001 10	Engine	19
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SECTION 10 - ENGINE

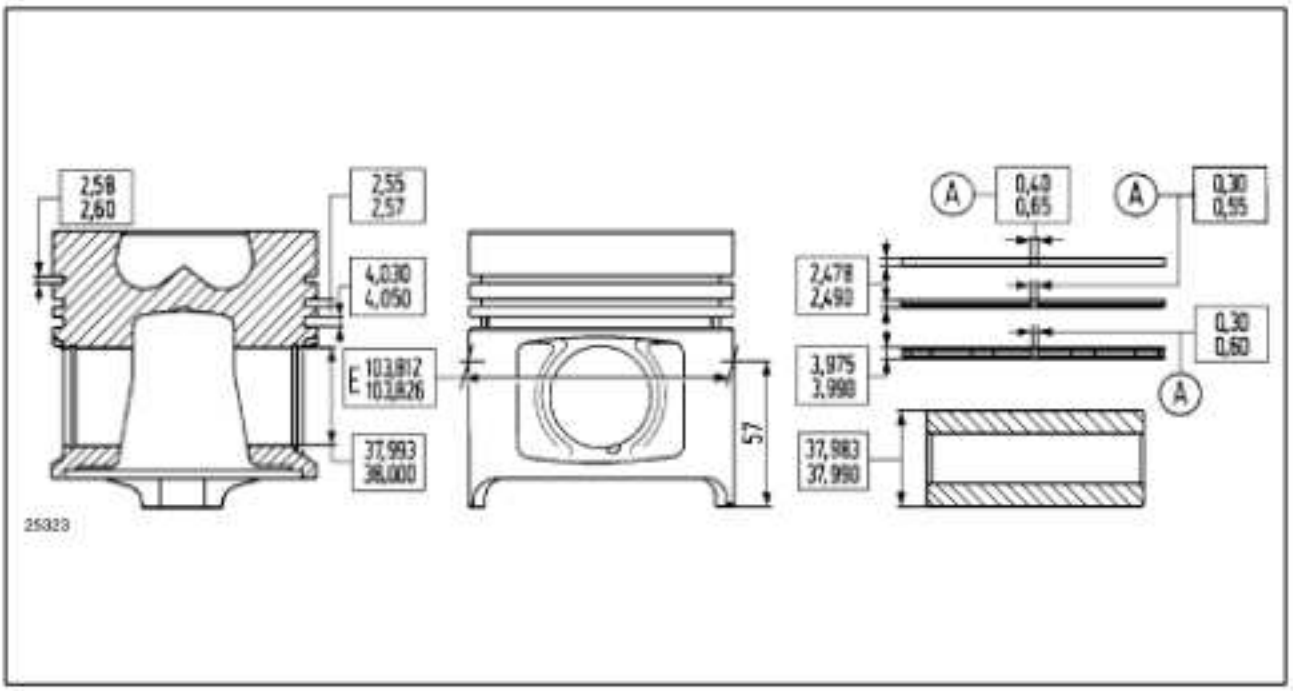
BOOK 1 - 87393596

Chapter 1 - Engine (Three-Cylinder) (Continued)

CONTENTS

Section	Description	Page
	Crankshaft	43
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	Connecting Rods	47
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Dimensions (mm) of standard pistons, wrist pins and rings

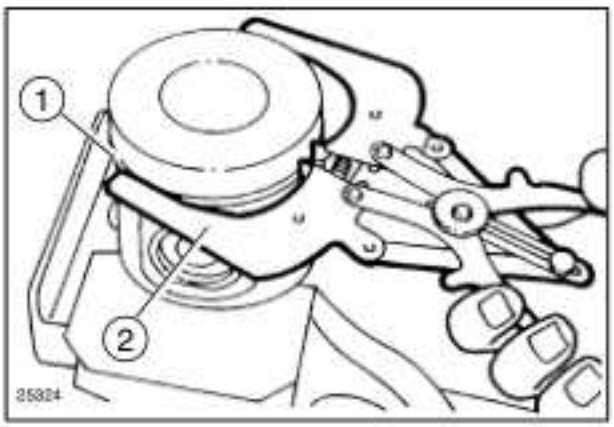
A. Measurement to be obtained with ring inserted in cylinder bore.

B. Piston diameter measured at 57 mm (2.2441 in) from the base of the skirt.

Install rings in grooves in the order indicated above.

To remove or install piston rings (1) use pliers **380000221** (2).

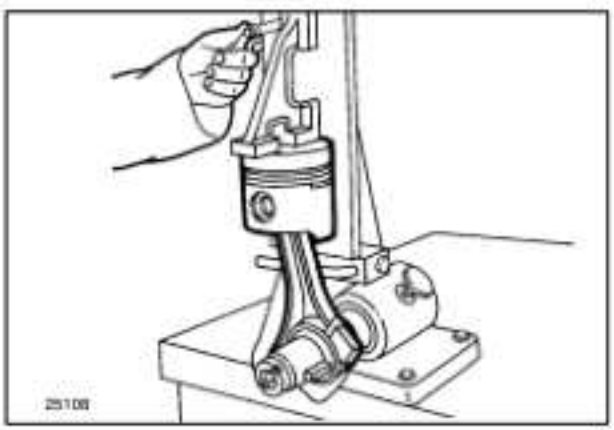
When installing pistons on connecting rods, check that the clearance between the wrist pin and its bore in the piston is within tolerance. Refer to the "Specifications".



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Check that the piston / connecting rod assembly is perfectly square.

If not, replace defective parts.



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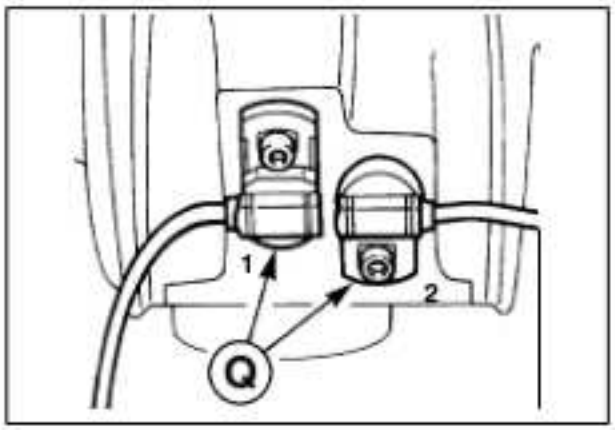
FAULT CODE 24

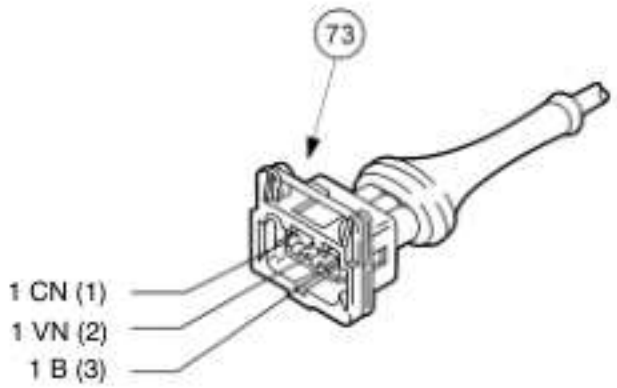
Turn the starter key to the OFF position.
Remove the rear right-hand wheel.
Disconnect the connection (73) on sensor (VAP) pin (2) (VN).
Remove the control panel and the ECM connection (138).
Is wire (VN) (pin 2) on connection (73) on sensor (VAP) in short to ground?

NO → Replace the sensor (VAP).
Does the fault persist?

YES → Replace the ECM.

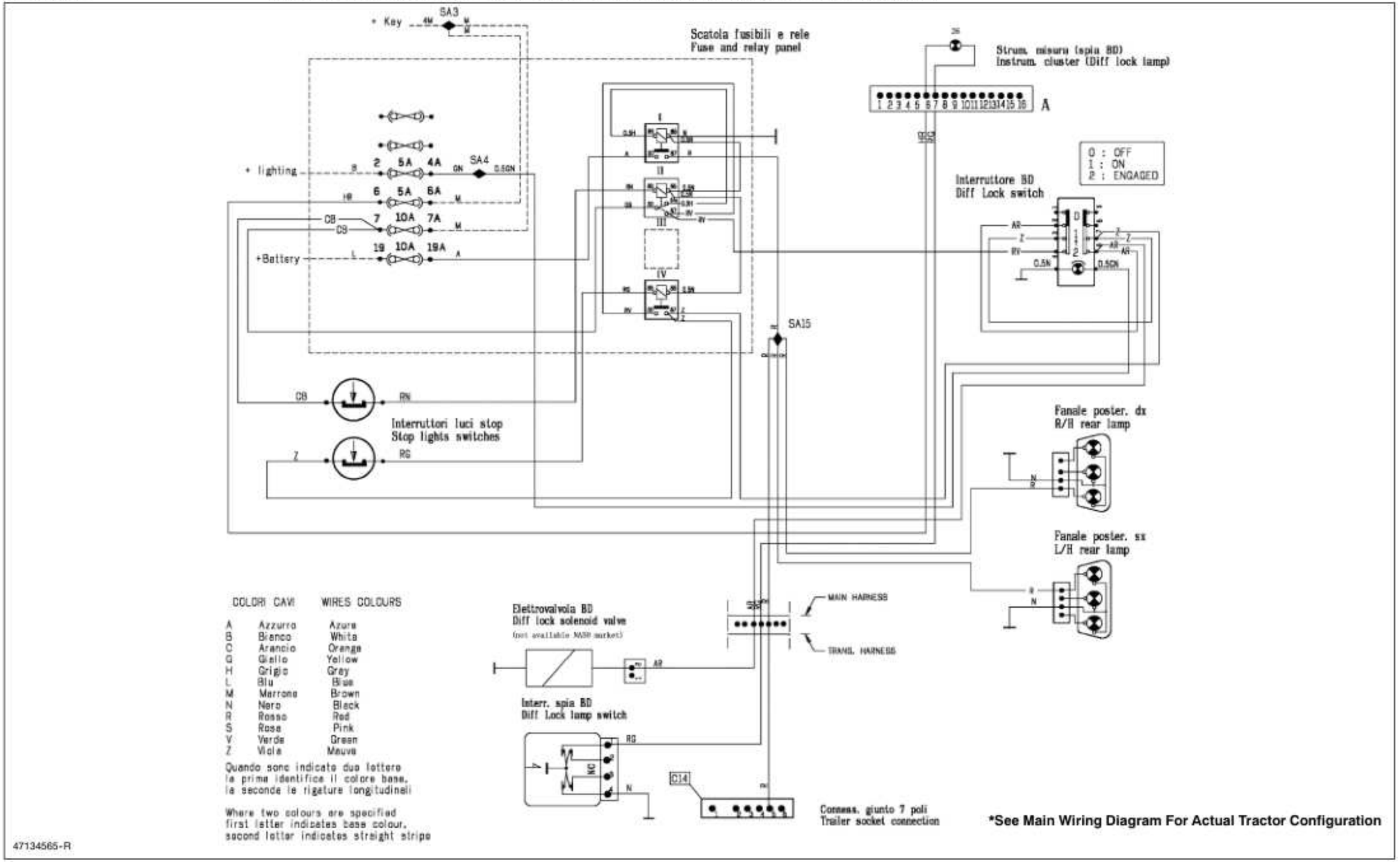
YES → Check the wiring between pin CN13 (VN) on connection (138), pin (A4) (VN) on connection (171) and pin (2) (VN) on connection (73).
Eliminate the cause of the short to ground.



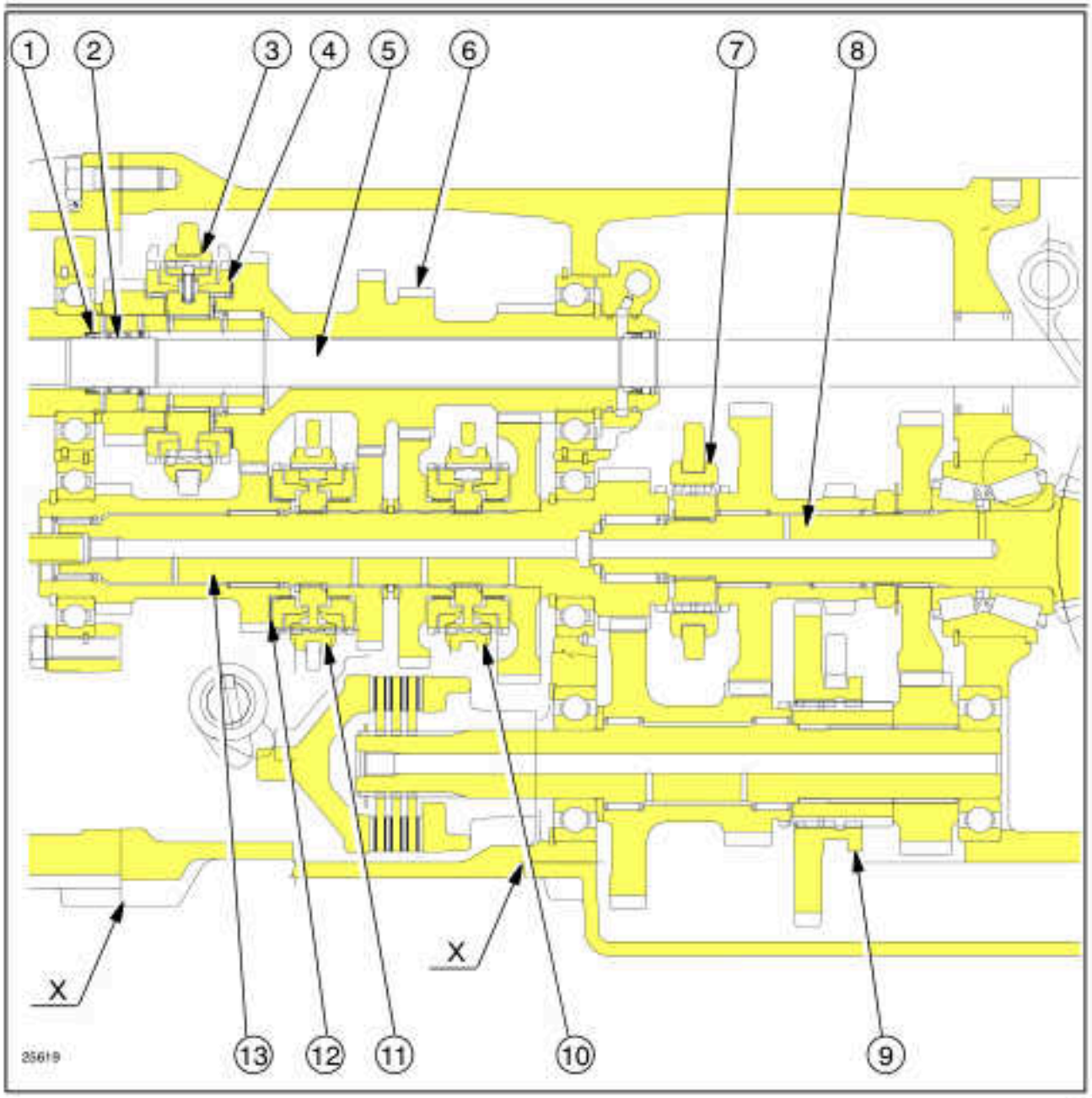


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DIAGRAM R **2WD / MECHANICAL FWD/DIFF LOCK AND STOP LIGHTS CIRCUIT (GENERIC SYSTEM DIAGRAM)***



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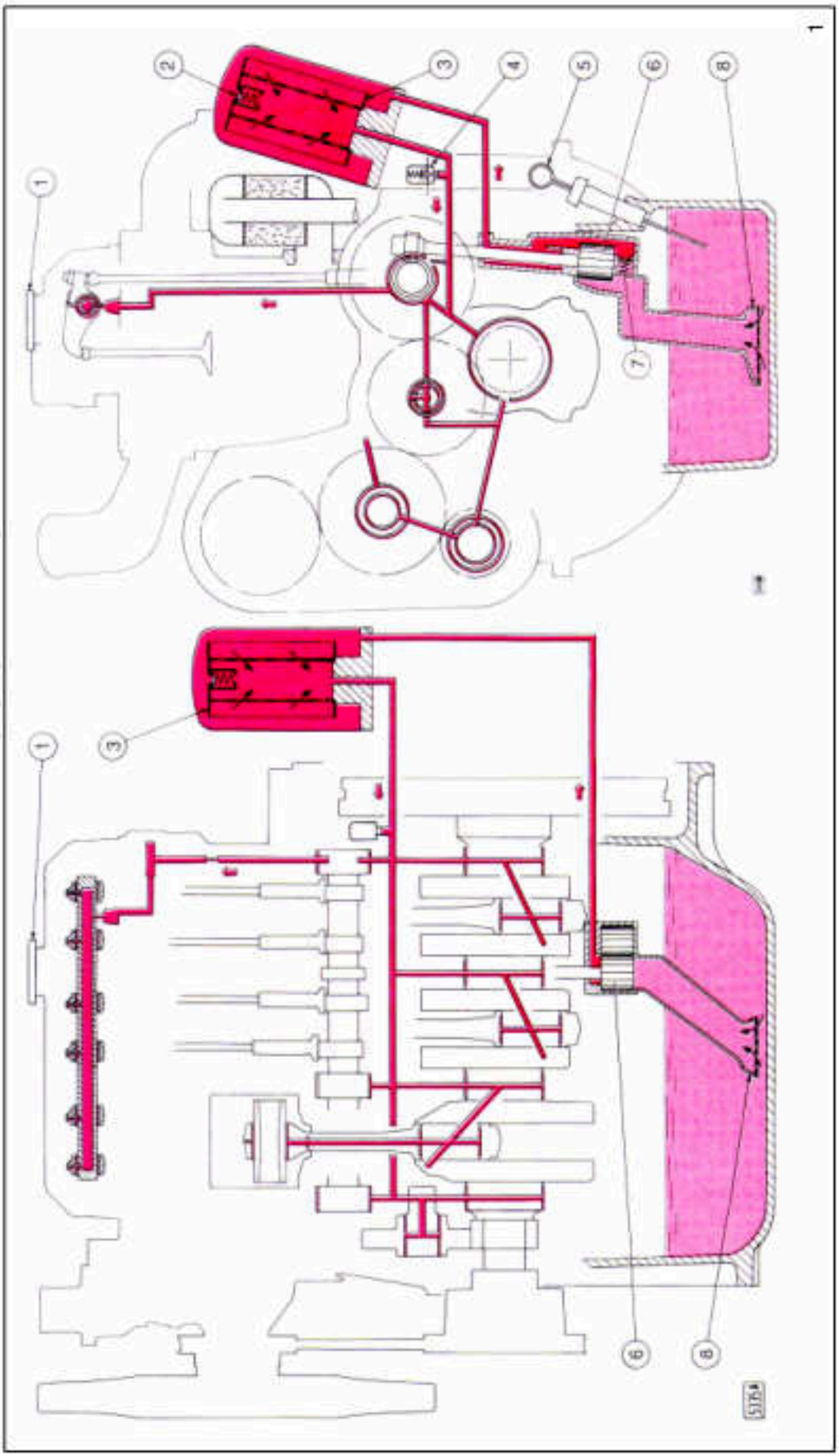
Longitudinal cross-sectional view of gearbox and gear range (16 + 16 Synchro-Command)

1. Seal.
2. Power take-off shaft support roller bearings.
3. Shuttle control synchronizer.
4. Gearbox driving gear clearance adjusting thickness.
5. Power take-off shaft.
6. Gearbox driving gear.
7. Selector sleeve for high or medium-low speeds.
8. Bevel pinion shaft.
9. Selector sleeve for low or medium-high speeds.
10. Synchronizer for 1st and 2nd speed.
11. Synchronizer for 3rd and 4th speed.
12. Gearbox driven shaft gear clearance adjusting thickness.
13. Gearbox driven shaft.

NOTE: *On assembly apply sealing compound to surfaces* ***X*** *as shown on page 30.*

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SECTIONAL VIEWS

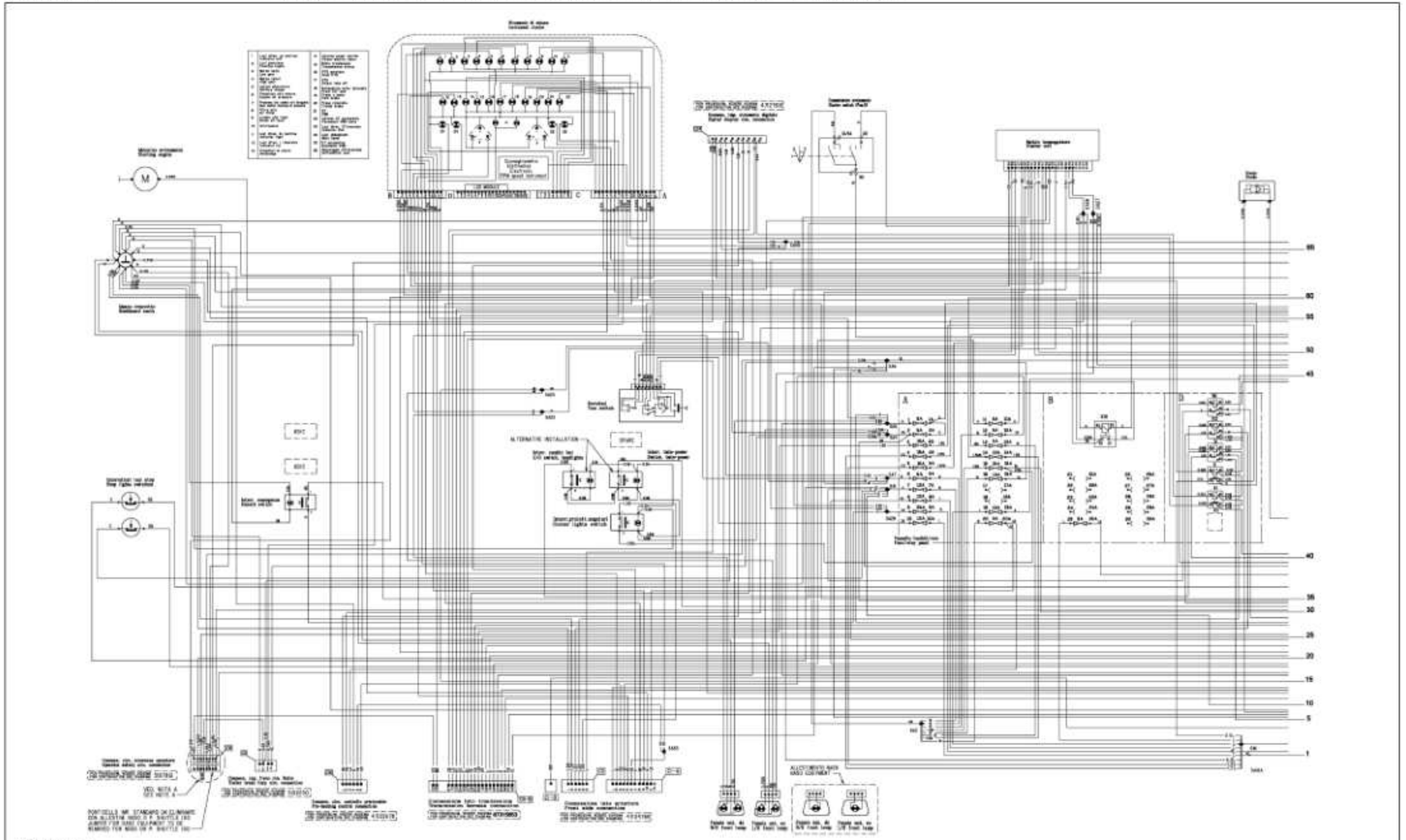


Engine Lubrication System (non-turbo engine shown)

1. Oil filler cap
2. Filter safety valve (opens when oil pressure at filter inlet exceeds the pressure at the outlet by 1.5-1.7 bar/cm²)
3. Filter
4. Switch for low engine oil pressure warning (on dashboard)
5. Dipstick
6. Pump
7. Oil pressure limiting valve
8. Screen filter on pick-up pipe

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DIAGRAM FF-1 **ELECTRO-HYDRAULIC FWD / MECHANICAL LIFT / WITH CAB / 4-CYLINDER / MAIN HARNESS**



47134752-FF-1

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