JX1075N, JX1095N

Tractors

SERVICE MANUAL

87352289

CASE IH AGRICULTURE

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JX1075N - JX1095N
REPAIR MANUAL
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The following pages are the collation of the contents pages from each section and chapter of the JX1075N - JX1095N Tractor Repair manual. Complete Repair part # 87352289.

The sections used through out all Case IH 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 JX1075N - JX1095N Tractors.

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Chapter 1 - General

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Chapter 1 - Engine

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PISTONS WITH RINGS, PINS, CONNECTING RODS, BIG END CAPS AND BEARINGS

Inspection

⚠ CAUTION ⚠

Handle all parts carefully.
Do not put your hands or fingers between parts.
Wear the prescribed safety clothing, including goggles, gloves and safety footwear.

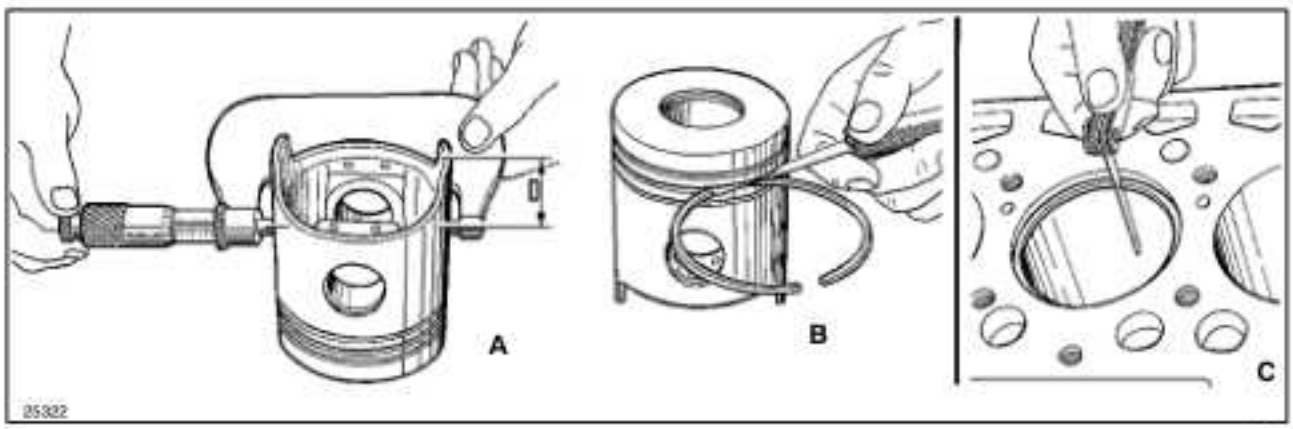
Clean all parts carefully before proceeding with the operations described below.

Determine the degree of piston and cylinder wear in the manner described in the specifications and in the drawings below.

If the piston running clearance exceeds 0.0118 in. (0.30 mm), rebore and ream the cylinders and install oversize pistons and rings (see specifications).

In the event of piston replacement, check that the difference in weight between pistons in the same engine does not exceed 0.04 lbs. (20 g).

Check that the piston ring groove clearance (b) and the end gap (c) are within the tolerances. (See specifications. Refer to table of contents). If the end gap is less than that specified, correct by grinding the ends of the piston ring.



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Checking pistons and rings

A. Checking piston diameter at a distance (L) from the base of the skirt.
B. Checking piston ring groove clearance.
C. Checking the end gap with ring in cylinder bore.
D. Distance from the base of the piston skirt: 2.2440 in. (57 mm).

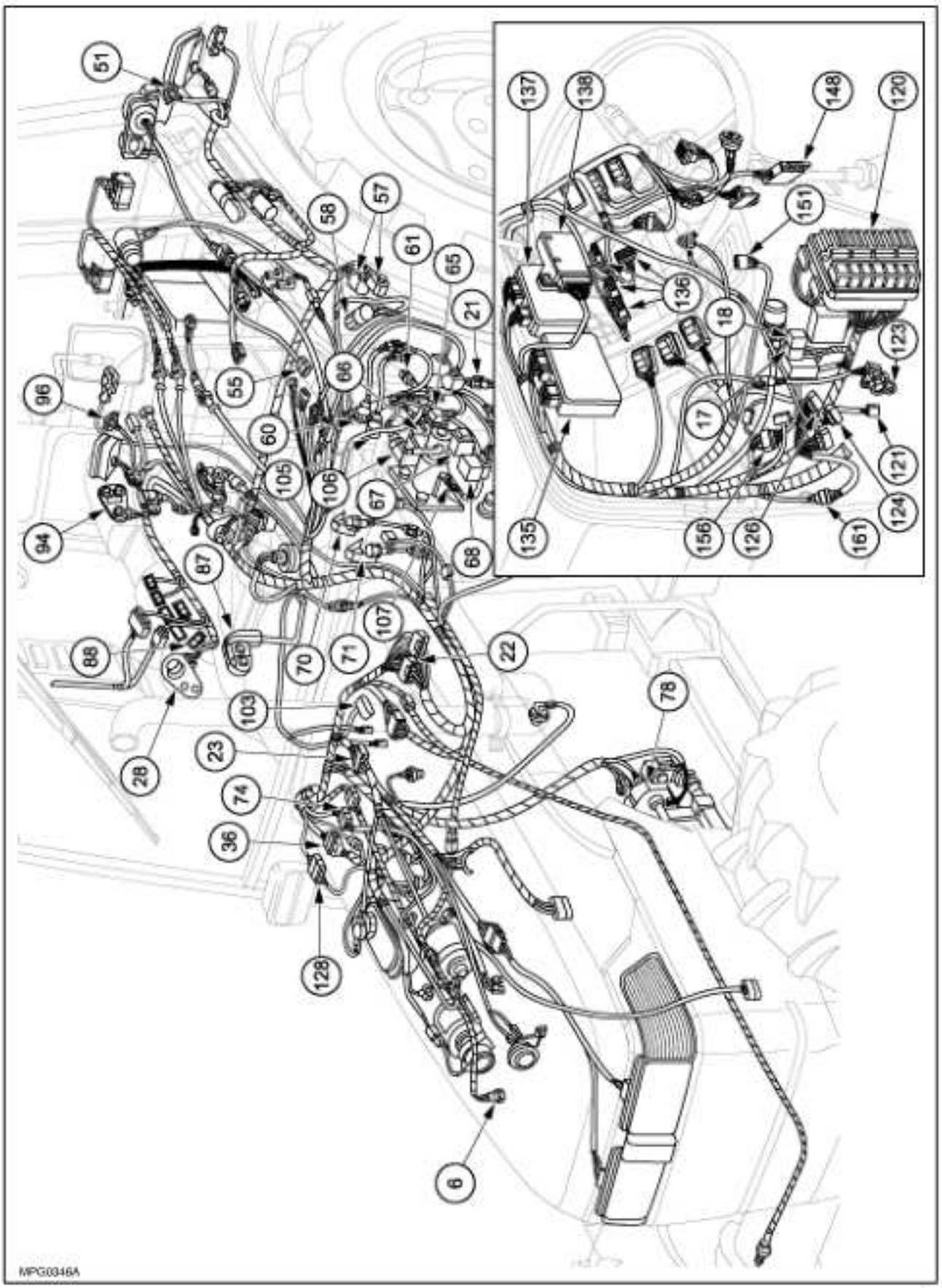
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TROUBLESHOOTING

Problems	Possible causes	Solutions
The differential lock fails to engage.	1. Transmission oil level insufficient.	Top up oil level.
	2. Clogged oil filter.	Replace filter.
	3. Hydraulic pump faulty.	Overhaul or replace pump.
	4. Differential lock control switch faulty.	Replace differential lock switch.
	5. No power at solenoid valve: connections loose or damaged, contactor defective.	Check electrical connections and replace defective parts.
	6. Differential lock control solenoid valve jammed in discharge position.	Overhaul or replace solenoid valve.
	7. Oil leakage through seals, leading to drop in pressure: cylinder piston or feed pipe seals.	Replace all defective seals.
Differential lock fails to disengage.	1. Differential lock solenoid valve jammed in delivery position.	Overhaul or replace solenoid valve.
	2. Differential lock release spring broken.	Replace spring.
	3. No power at solenoid valve: connections loose or damaged, contactor defective.	Check electrical connections and replace defective parts.
With differential lock engaged and the control switch in position 3, when the lift arms are raised with the Fast Raise/Lower the differential lock fails to disengage.	1. Differential lock control switch (connected to Fast Raise/Lower device) defective.	Replace differential lock switch.
With differential lock engaged, lock fails to release when brake pedals are pressed.	1. Differential lock control switch (connected to brake pump) defective.	Replace differential lock switch.

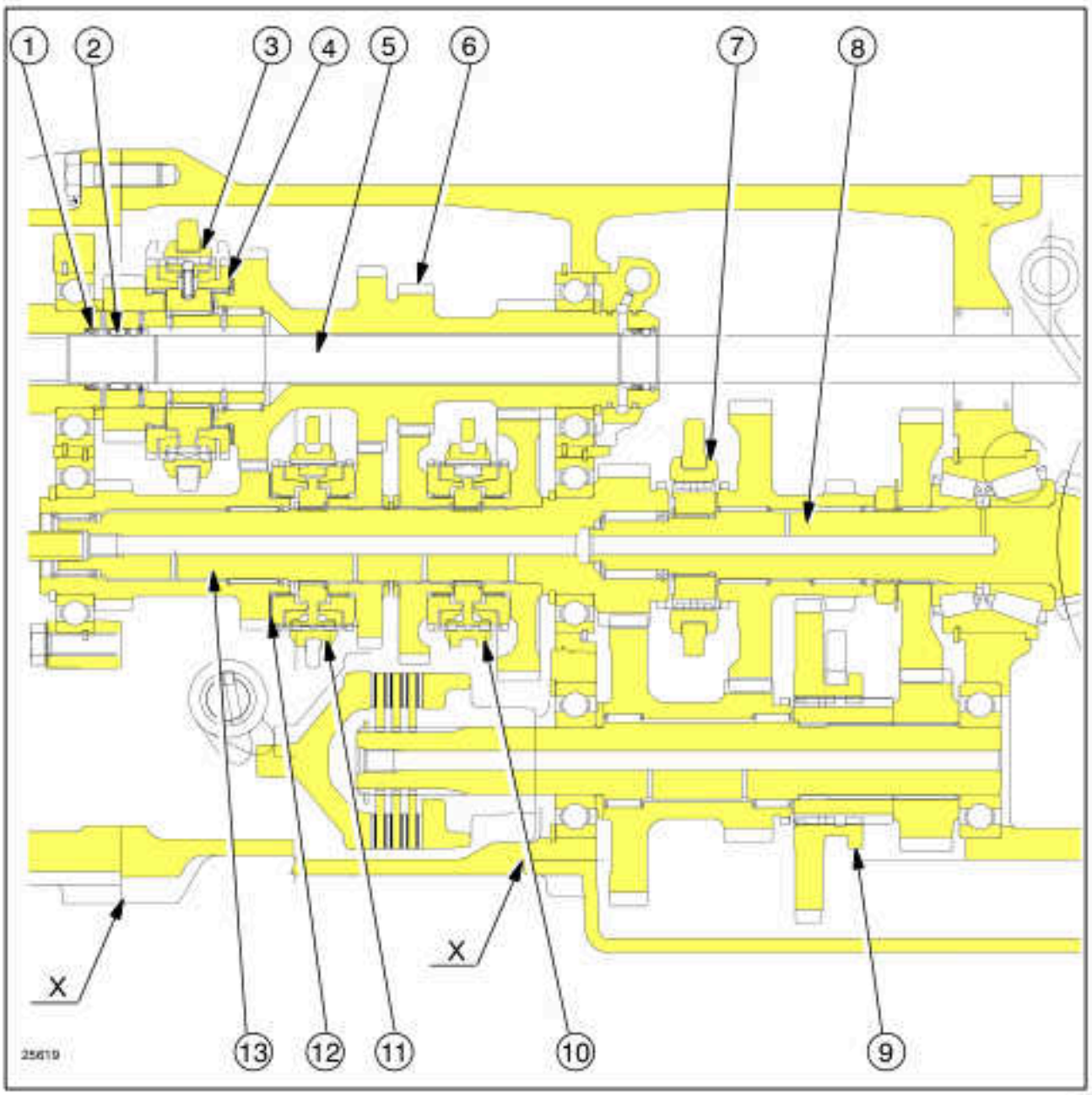
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WIRING DIAGRAMS H - I/1 - I/2 - I/3 - L



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SECTIONAL VIEWS



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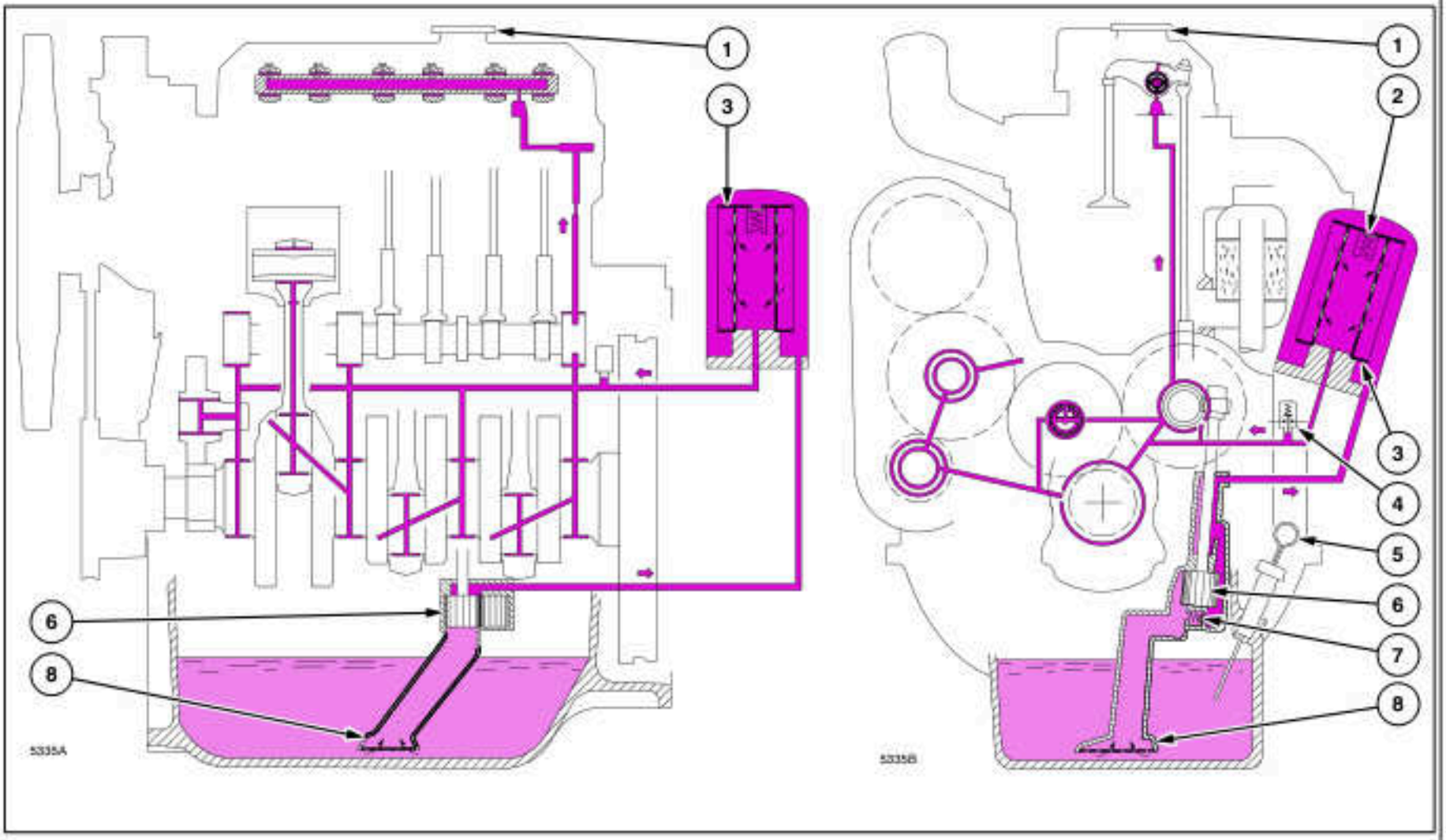
Longitudinal View of Gearbox and Gear Range

1. Seal.
2. Power take-off shaft support roller bearings.
3. Reverser 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 a bead of sealing compound to the surfaces* ***X*** *as indicated on page 29.*

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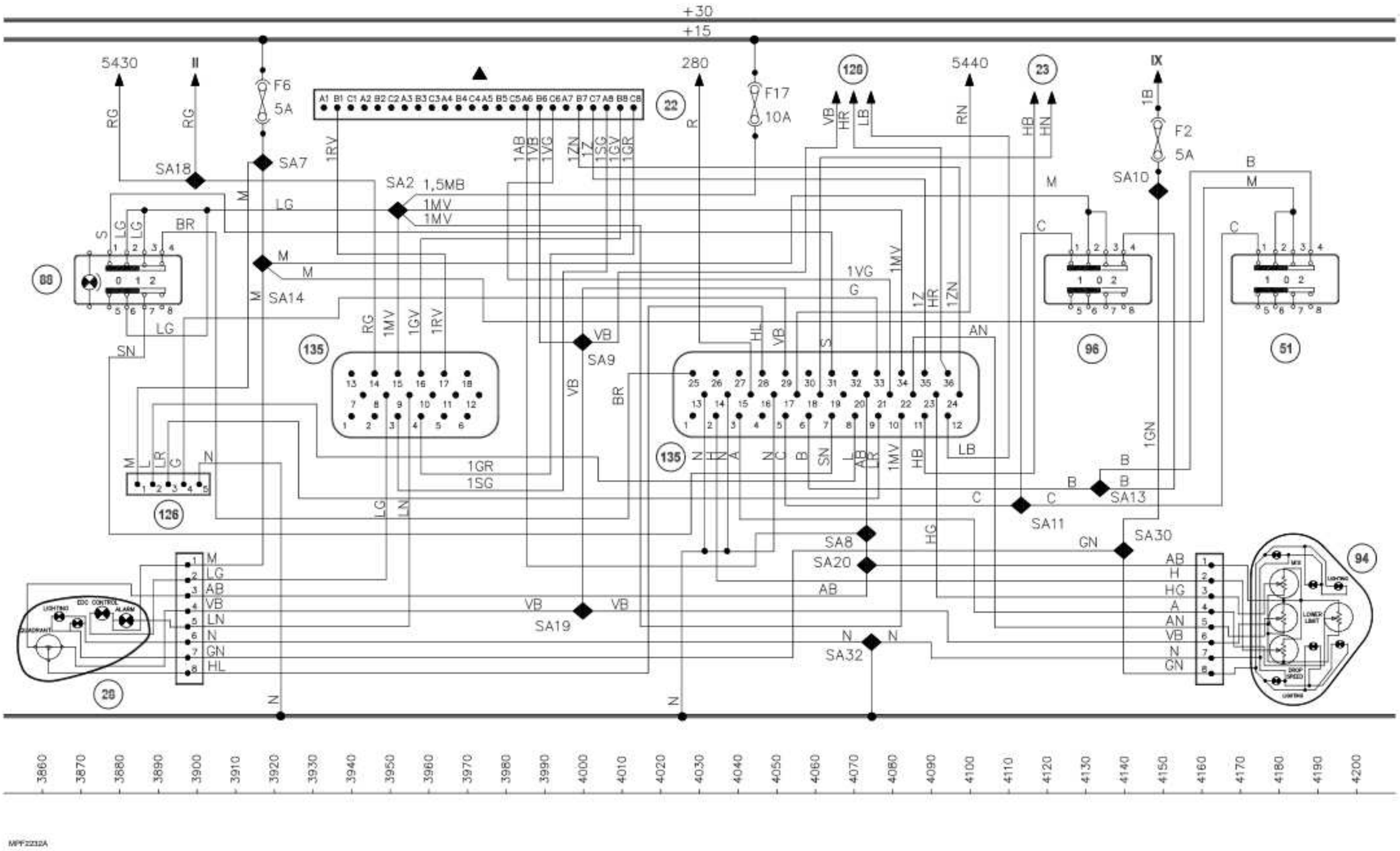


Engine lubrication system diagram (Naturally Aspirated Engine Shown) 1

1. Oil filler cap - 2. Filter safety valve (opens when oil pressure at filter inlet exceeds the outlet pressure by 1.5-1.7 bar/cm^2) - 3. Filter - 4. Engine lubrication oil low pressure indicator lamp switch (located on the dashboard) - 5. Dipstick - 6. Pump - 7. Oil pressure limiting valve - 8. Mesh filter on intake

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REAR ELECTRONIC LIFT CIRCUIT - DIAGRAM L



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