

NEW HOLLAND
TN55
TN65
TN70
TN75
Tractors

REPAIR MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

87034092

MidWestTech | New Holland TN55, TN65, TN70, TN75 Tractor Service Manual | Publication 87034092

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TN55, TN65, TN70, TN75
REPAIR MANUAL
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The following pages are the collation of the contents pages from each section and chapter of the TN55, TN65, TN70, TN75 Repair manual. Complete Repair part # 87034092.

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 TN55, TN65, TN70, TN75 Tractors.

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SECTION 00 - GENERAL

BOOK 1 - 87034093

Chapter 1 - General Instructions

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SECTION 10 - ENGINE

BOOK 1 - 87034093

Chapter 1 - Engine

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SECTION 18 - CLUTCH

BOOK 1 - 87034093

Chapter 1 - Clutch

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SECTION 21 - TRANSMISSIONS

BOOK 2 - 87034094

Chapter 1 - Mechanical Transmission (8 x 8), (16 + 16) Synchro-Command, and 8 x 8 Non-Synchronized Transmissions

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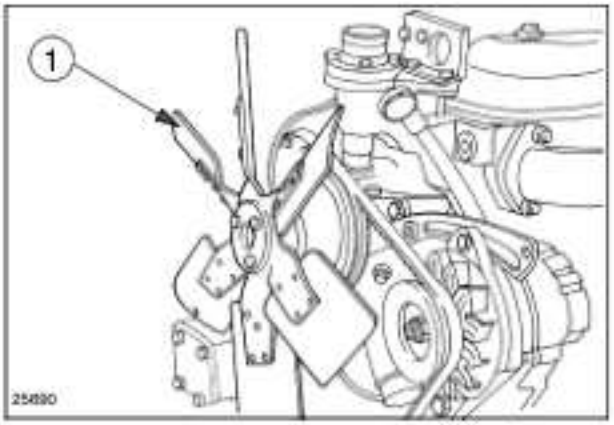
Op. 10 402 11
COOLANT PUMP - Removal-Installation with the radiator removed.

DANGER

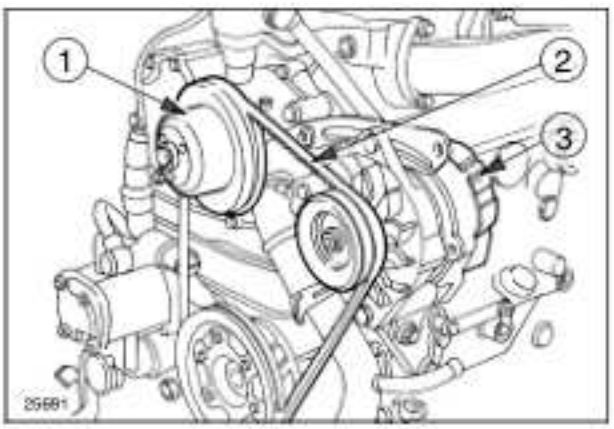
Lift and handle all heavy parts using suitable lifting equipment.
Make sure that assemblies or parts are supported by means of suitable slings and hooks.
Make sure that no-one is standing in the vicinity of the load to be lifted.

Proceed as follows:

1. Carry out operation **90 100 22**: Bonnet opening, only removal (see sect. 90).
2. Carry out operation **90 100 80**: Safety guard, only removal (see sect. 90).
3. Carry out operation **10 406 10**: Radiator, only removal (see sect. 90).
4. Loosen the retaining bolts and remove the fan (1) recovering the spacer.
5. Loosen the alternator locknuts (3), and recover the pulley (1) and belt (2).



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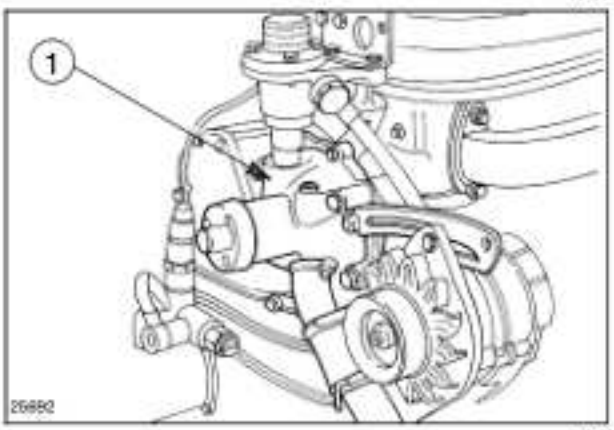
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6. Unscrew the retaining bolts and remove the pump lines (1), remove the bolts and the pump.
7. To install the coolant pump, proceed as follows.

WARNING

Always use appropriate tools to align fixing holes. NEVER USE YOUR FINGERS OR HANDS.

- Respect the tightening torques prescribed on page 20.
- Fit the coolant pump and connect the lower lines to the pump.
- Assemble the pulley and the fan drive belt.
- Fit the fan and spacer.
- Carry out operation **10 406 10**: Radiator, only installation (see sect 90).

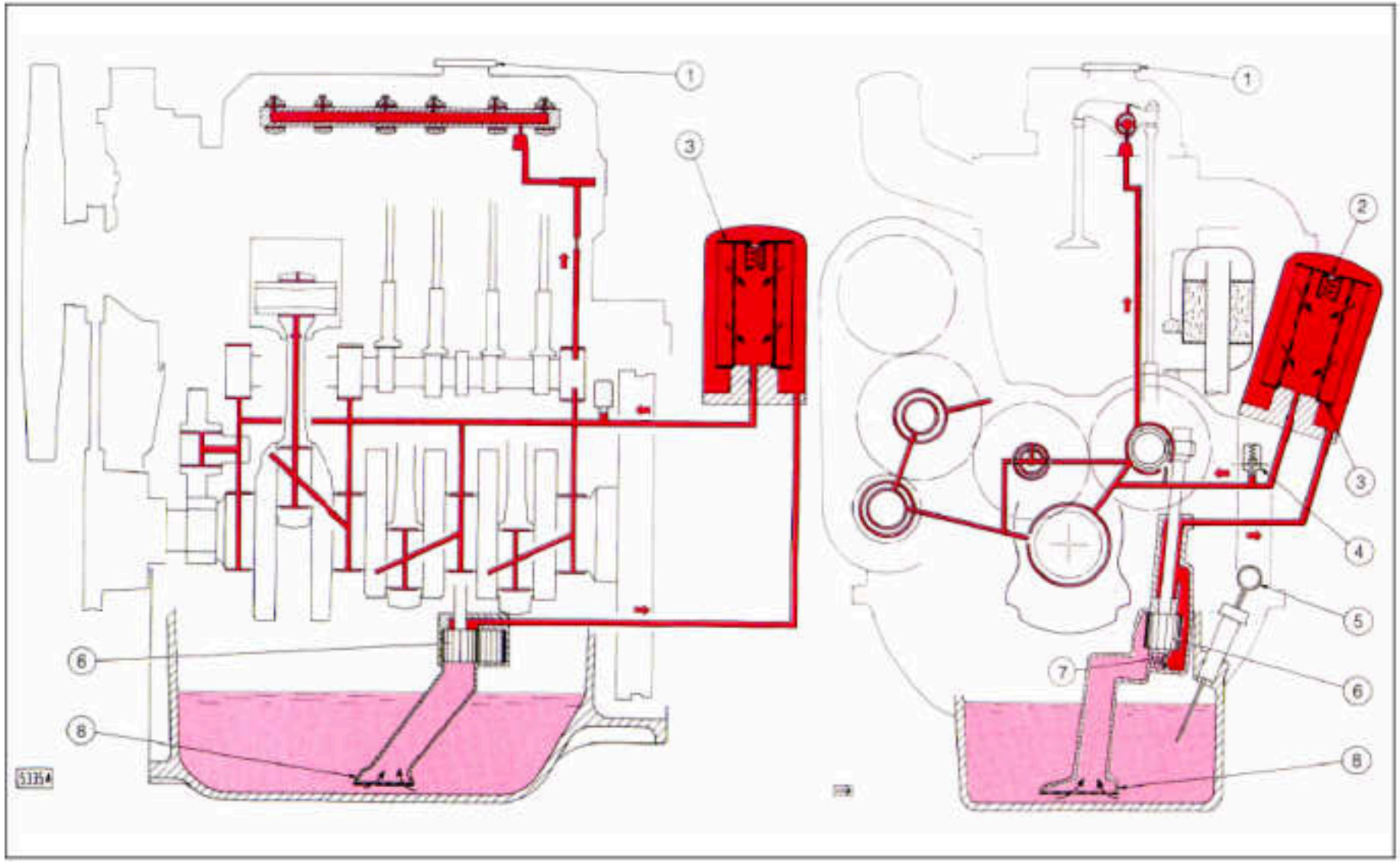


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- Carry out operation **90 100 80**: Safety guard, only installation (see sect. 90).
- Carry out operation **90 100 22**: Bonnet opening, only installation (see sect. 90).

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Engine lubrication system 5

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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OPERATING STAGES OF AUXILIARY CONTROL VALVE FOR THE OPERATION OF A DOUBLE-ACTING CYLINDER (FIGS. 4 and 5) AND SINGLE-ACTING CYLINDER (FIGS. 6 and 7)

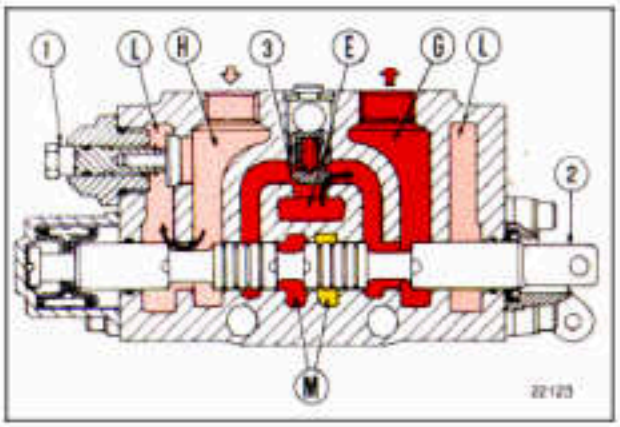
1. **LIFTING** - On pulling back the control lever (located in the cab) the control valve spool (2, fig. 4) shifts to connect: delivery line (E) with the lower chamber of the cylinder, by way of the check valve (3) and the line (G), and also exhaust line (L) by way of line (H), intercepting the supply of oil to the lift control valve. Keep the lever pilled back, to extend the cylinder to its full stroke. On releasing the lever it will automatically return to the neutral position under the action of the return spring, and the entire flow from the pump will be conveyed to the lift control valve by way of lines (M).

2. **LOWERING** - To lower the implement, push the control lever(located in the cab) forward. The control valve spool (2) will shift to the position indicated in fig. 5 thus allowing the oil in the lower cylinder chamber to flow to the exhaust (L) through the line (G), while the upper chamber is connected to the delivery line (E) through line (H) and check valve (3).

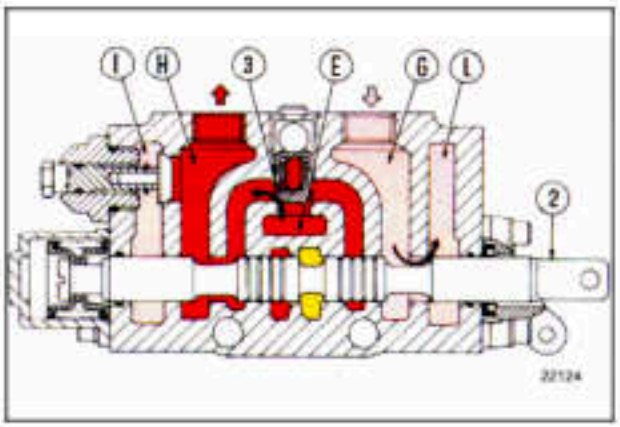
3. **LIFTING** - On pulling back the control lever (located in the cab) the control valve spool (2, fig. 6) shifts to connect the cylinder with the delivery line (E) by way of the check valve (3) and line (G). Line (H), for the control of double-acting cylinders, is not used at this stage as it is permanently connected to the exhaust (L) by the open position of the switching valve (1).

4. **LOWERING** - On pushing back the control lever (located in the cab) the spool (2) will shift to the position indicated in fig. 7. The oil contained in the cylinder, pressurised by the weight of the lifted implement, will flow to the exhaust (L) by way of line (G), while the entire flow from the pump is also conveyed to the exhaust (L) through the check valve (3) and line (H).

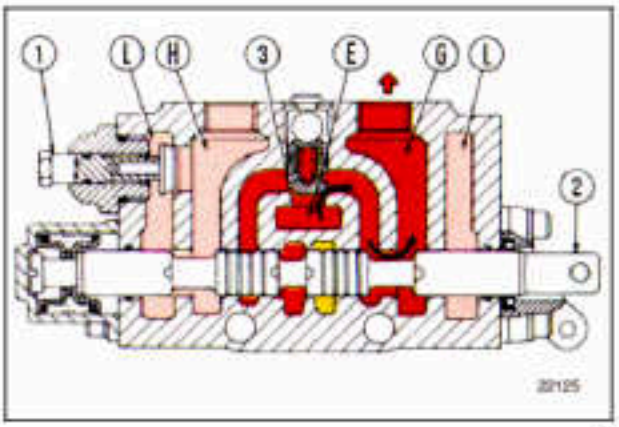
Pressurised oil
Oil in suction, delivery or exhaust
Static oil



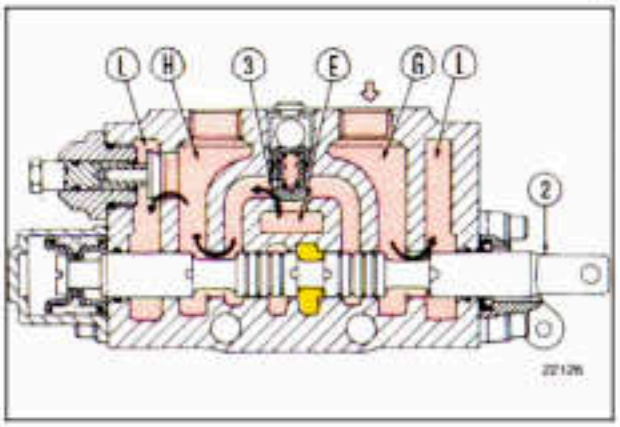
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6

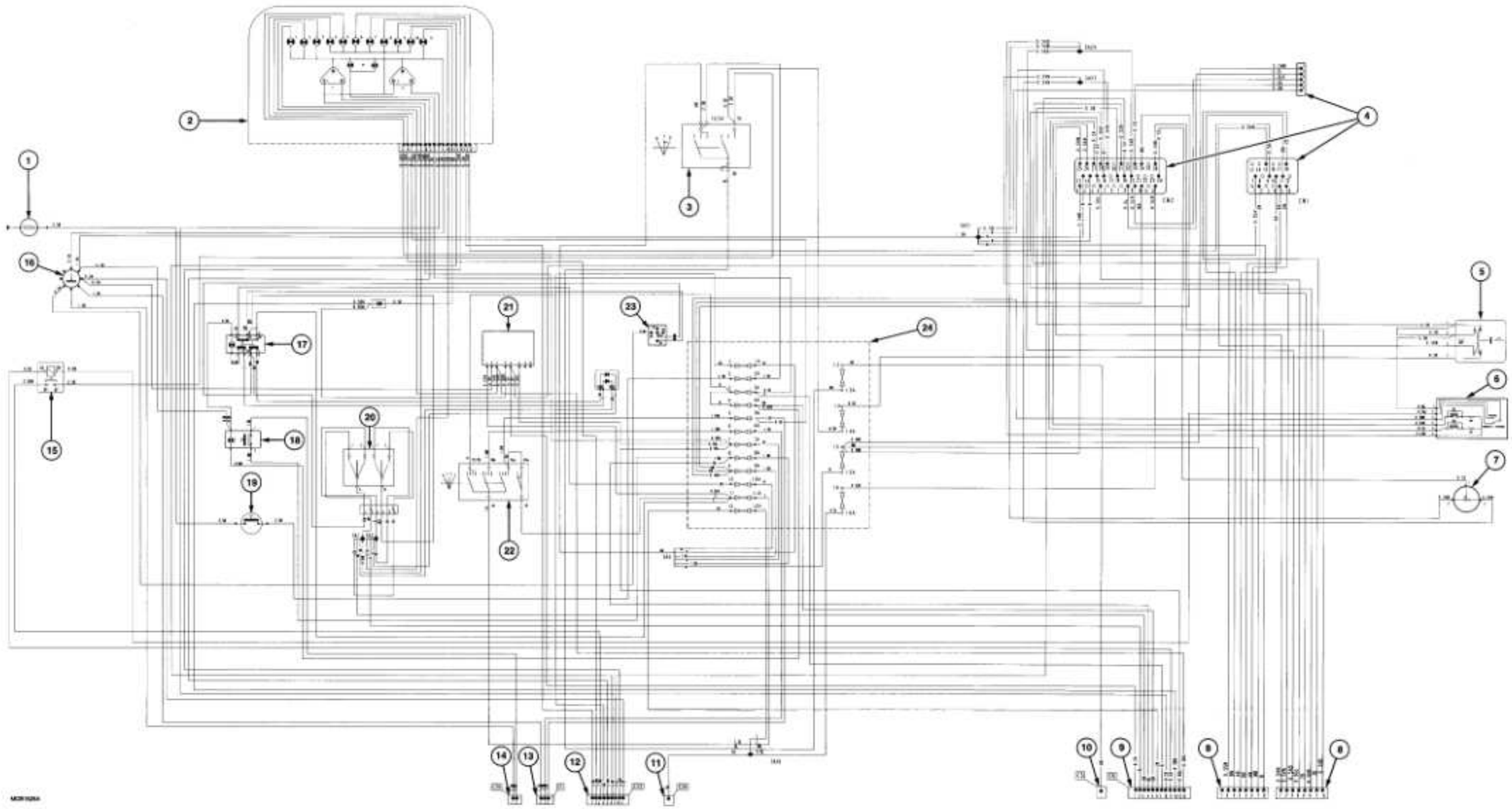


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Pressurised oil
Oil in suction, delivery or exhaust
Static oil

NOTE: *For operation of a double-acting cylinder, tighten the screw (1). For operation of a single-acting cylinder, loosen the screw.*

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