NEW HOLLAND
T5030
T5040
T5050
Tractors



REPAIR MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

84221704

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The following pages are the collation of the contents pages from each section and chapter of the TD5030, TD5040, TD5050 Service manual. Complete Service part # 84221704.

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

The sections listed above are the sections utilized for the TD5030, TD5040, TD5050 Tractors.

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SECTION 00 - GENERAL

BOOK 1 - 84221705

Chapter 1 - General

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SECTION 10 - ENGINE

BOOK 1 - 84221705

Chapter 1 - Engine (F5C)

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SECTION 10 - ENGINE

BOOK 1 - 84221705

Chapter 2 - Engine (NEF)

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STEERING TO THE RIGHT (FIG. 5)

When you turn the steering wheel clockwise, the springs (11) fig. 2 deform, allowing the valve (12) fig. 4 to rotate in relation to the sleeve (11).

In this state, the following takes place:

- de-synchronization of the internal ducts with parts (11) and (12) fig. 4, which were aligned in the neutral phase, resulting in interruption of the flow of oil to the outlet.
- alignment with the same number of internal ducts connected moment by moment with the rotor compartments at intake from the pump (7) fig. 4 and in the delivery line to the steering cylinders (2), thus allowing the wheels to be steered to the right.

STEERING TO THE LEFT

When you turn the steering wheel counterclockwise, the grooves inside parts (11) and (12) fig. 4 and the delivery lines to the steering cylinders are reversed, thus allowing the wheels to be steered to the left.

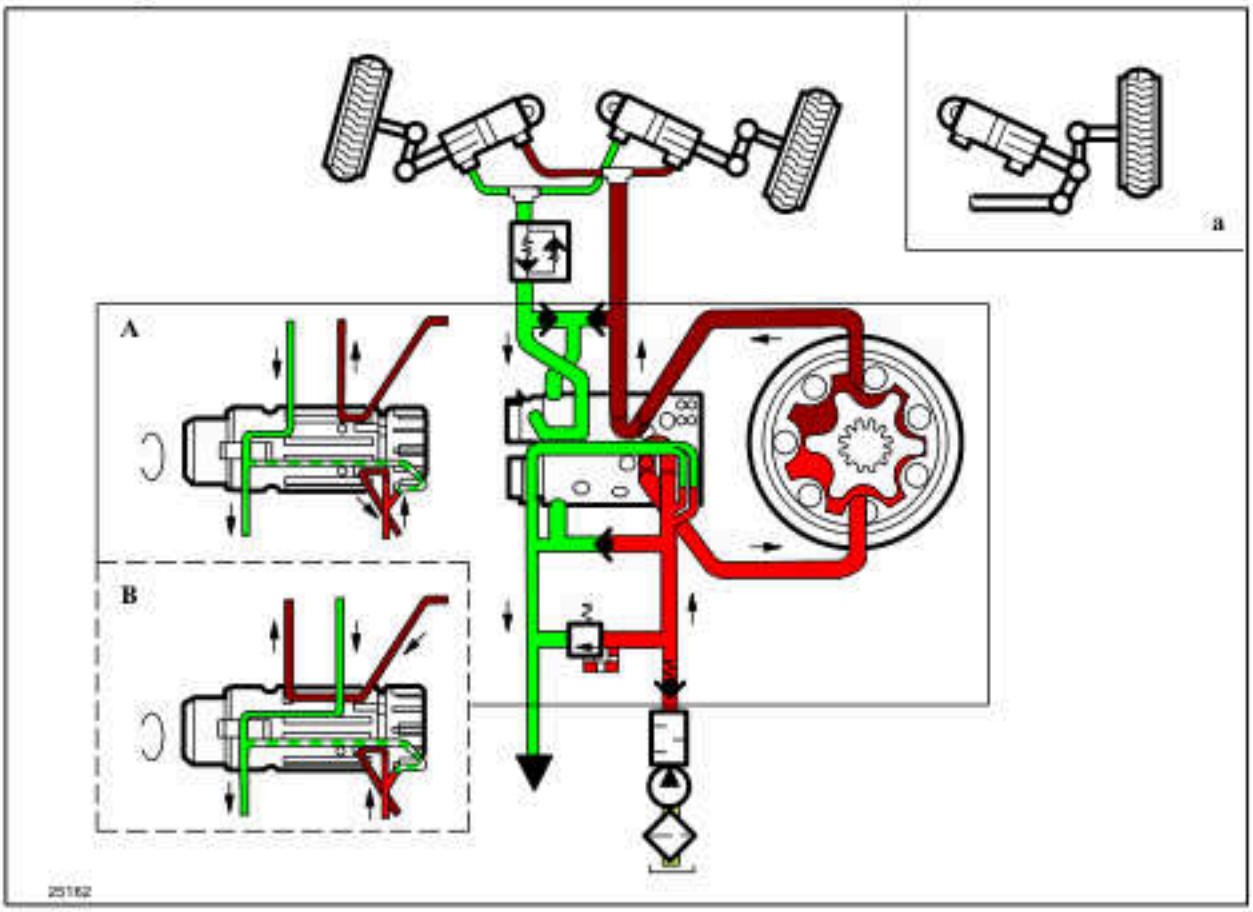
STEERING TO THE RIGHT MANUALLY

If there is a fault or loss of oil pressure at the hydrostatic steering pump, steering can also be performed manually.

When you turn the steering wheel clockwise, the rotor inside the hydrostatic steering control valve (3) fig. 4 performs the function of a hand pump, sending oil to the control cylinder rod side (2), thus allowing the wheels to be steered to the right manually.

STEERING TO THE LEFT MANUALLY

When you turn the steering wheel counterclockwise, you act upon the rotor inside the hydrostatic steering control valve which, by operating as a hand pump as previously described, sends oil to the control cylinder piston side, thus allowing the wheels to be steered to the left manually.



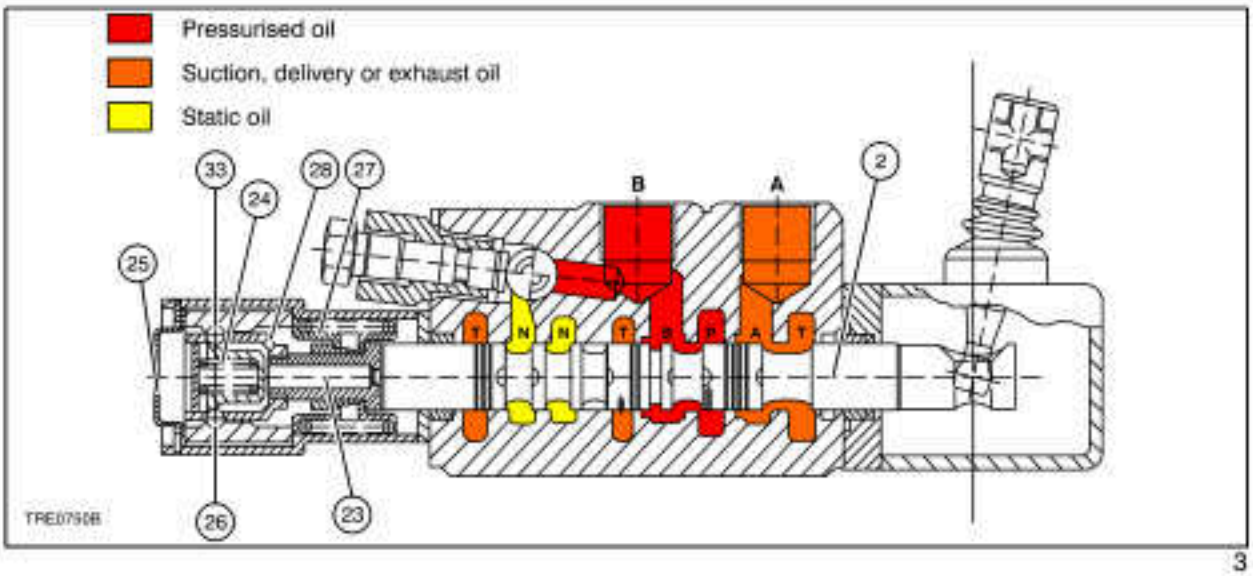
5

Diagram showing operation of the hydrostatic steering

a 2WD models
A Steering to the right
B Steering to the left

Oil in intake line
Oil in delivery line from pump
Oil in delivery line to hydraulic cylinder
Oil returning to reservoir

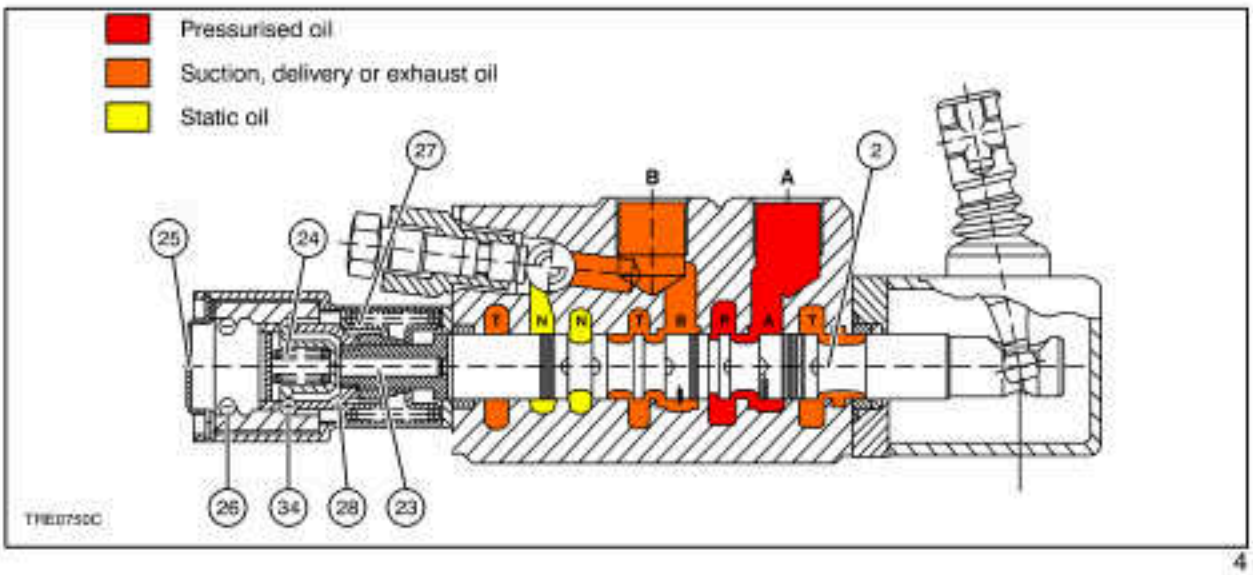
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3

Lifting

When the spool (2) moves to left, the detent balls (26) engage the groove (33), where they are held in place by the support (28) and spring (24). The movement of the spool (2) connects: the pressure line (P) with the line (B), and also the upper cylinder chamber with the exhaust line (T) by way of line (A), intercepting the supply of oil to the hydraulic lift control valve. Automatic detent release working principle is explained at page 7.



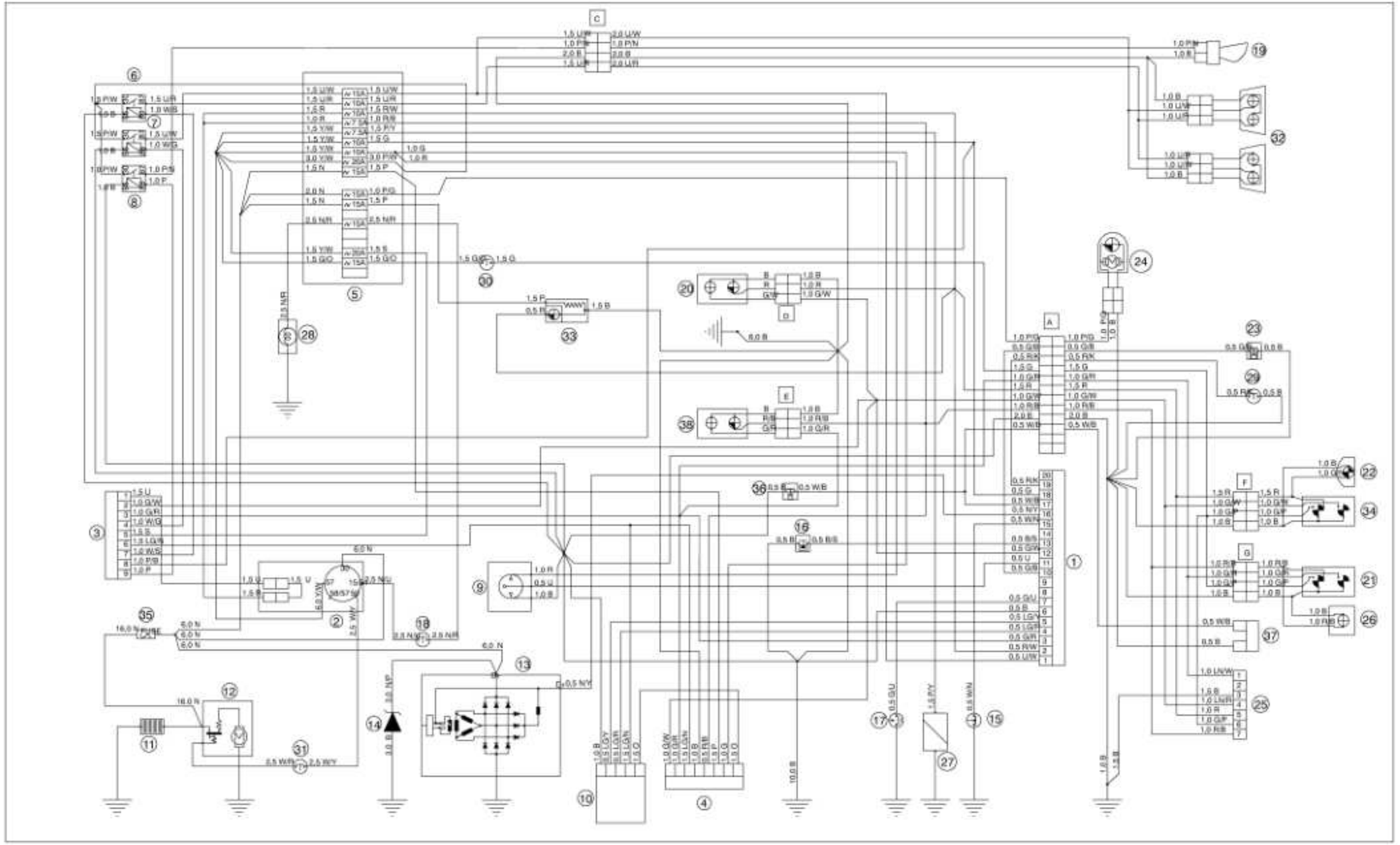
4

Lowering

When the spool (2) moves to right, the detent balls engage in the groove (34) where they are held in position by the support (28) and the spring (24). In this condition the oil contained in the lower chamber of the cylinder can flow to the exhaust (T) by way of line (B), while the upper chamber is connected with the pressure line (P) by way of line (A). On completion of the lowering operation, the detent will be automatically released as explained at Page 7.

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GENERAL DIAGRAM -CENTER (WITHOUT CAB)



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