Farmall 65C, Farmall 75C, Farmall 85C, Farmall 95C Tractors

Repair Manual

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CASE IH AGRICULTURE

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The following pages are the collation of the contents pages from each section and chapter of the Farmall 65C, Farmall 75C, Farmall 85C, Farmall 95C Repair manual. Complete Repair part # 87758598.

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 Farmall 65C, Farmall 75C, Farmall 85C, Farmall 95C Tractors.

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BOOK 1 - 87758599

Chapter 1 - General

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SECTION 10 – ENGINE

BOOK 1 - 87758599

Chapter 1 – Engine

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SECTION 10 - ENGINE

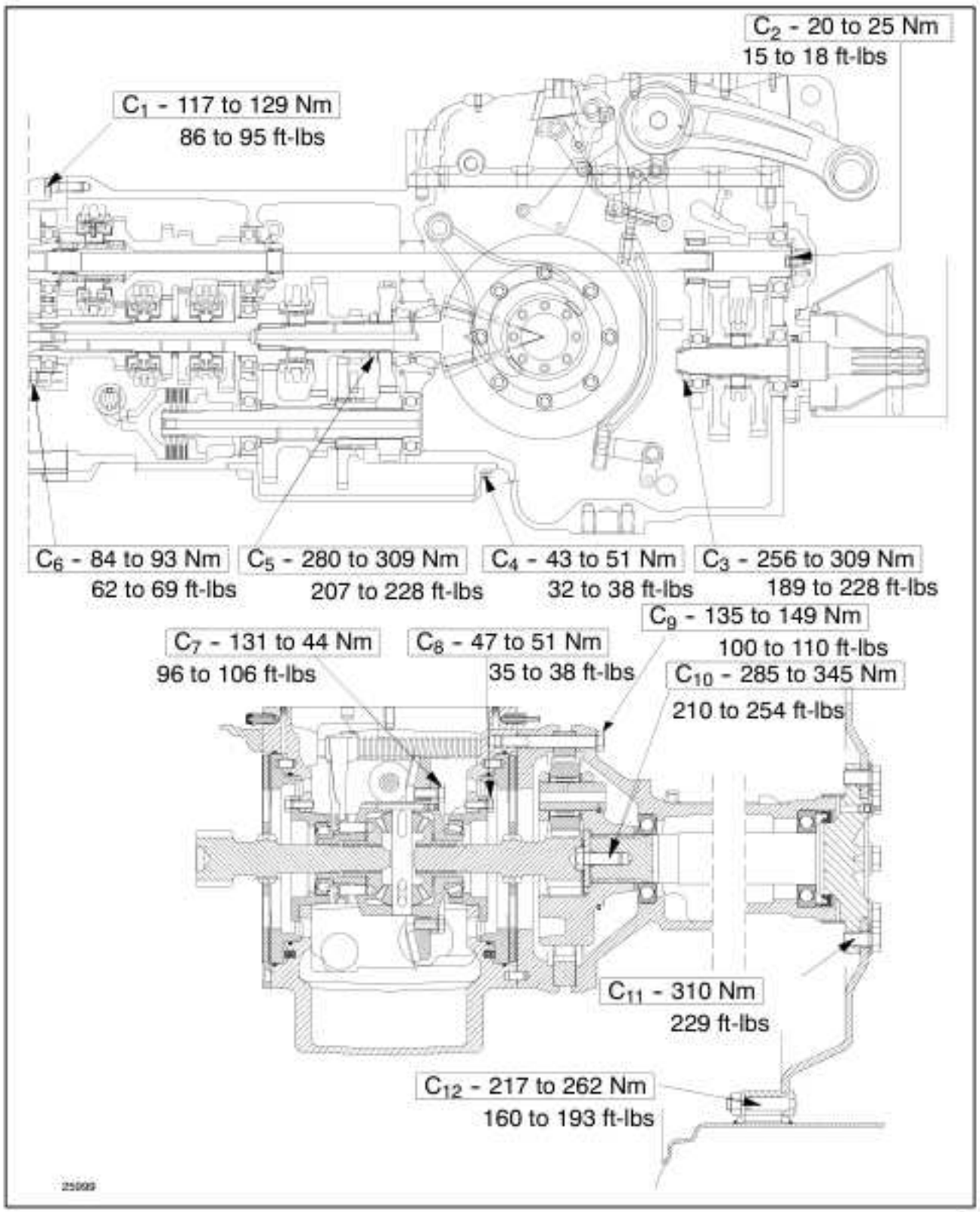
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Operation 35 110 53

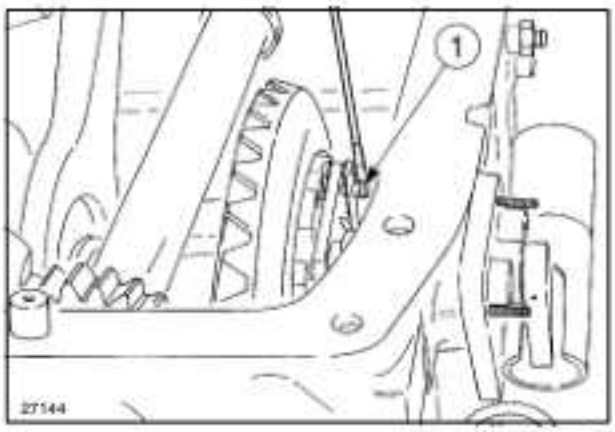
DRAFT SENSOR SUPPORT

Removal - With Lift Removed

ATTENTION

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

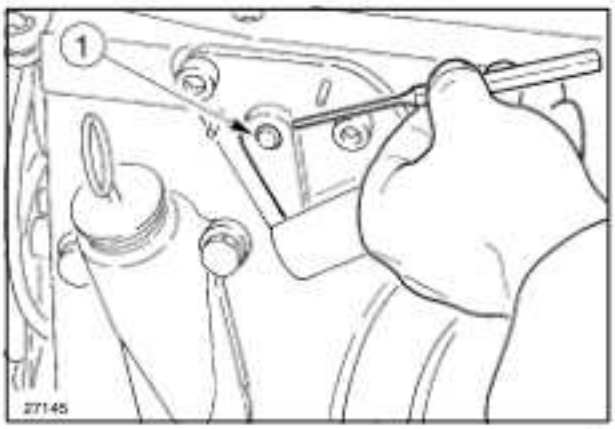
1. Carry out operation **35 110 30** Electronically controlled hydraulic lift, only removal (see page 19).
2. Carry out operation **35 130 56** Draft sensor, only removal (see page 29).
3. Remove the safety stop on the drive transmission rod pivot pin (1).
4. Remove the safety pin on the draft sensor control lever (1).



31

WARNING

Use suitable tools to align the holes. NEVER USE FINGERS OR HANDS.



32

Installation - With Lift Removed

To refit the support on the transmission casing-gearbox, proceed as follows:

1. Insert the safety pin.
2. Fit the safety stop on the drive transmission rod pivot pin.
3. Carry out operation **35 130 56** Draft sensor, only installation (see page 29).
4. Carry out operation **35 110 30** Electronically controlled hydraulic lift, only installation (see page 19).

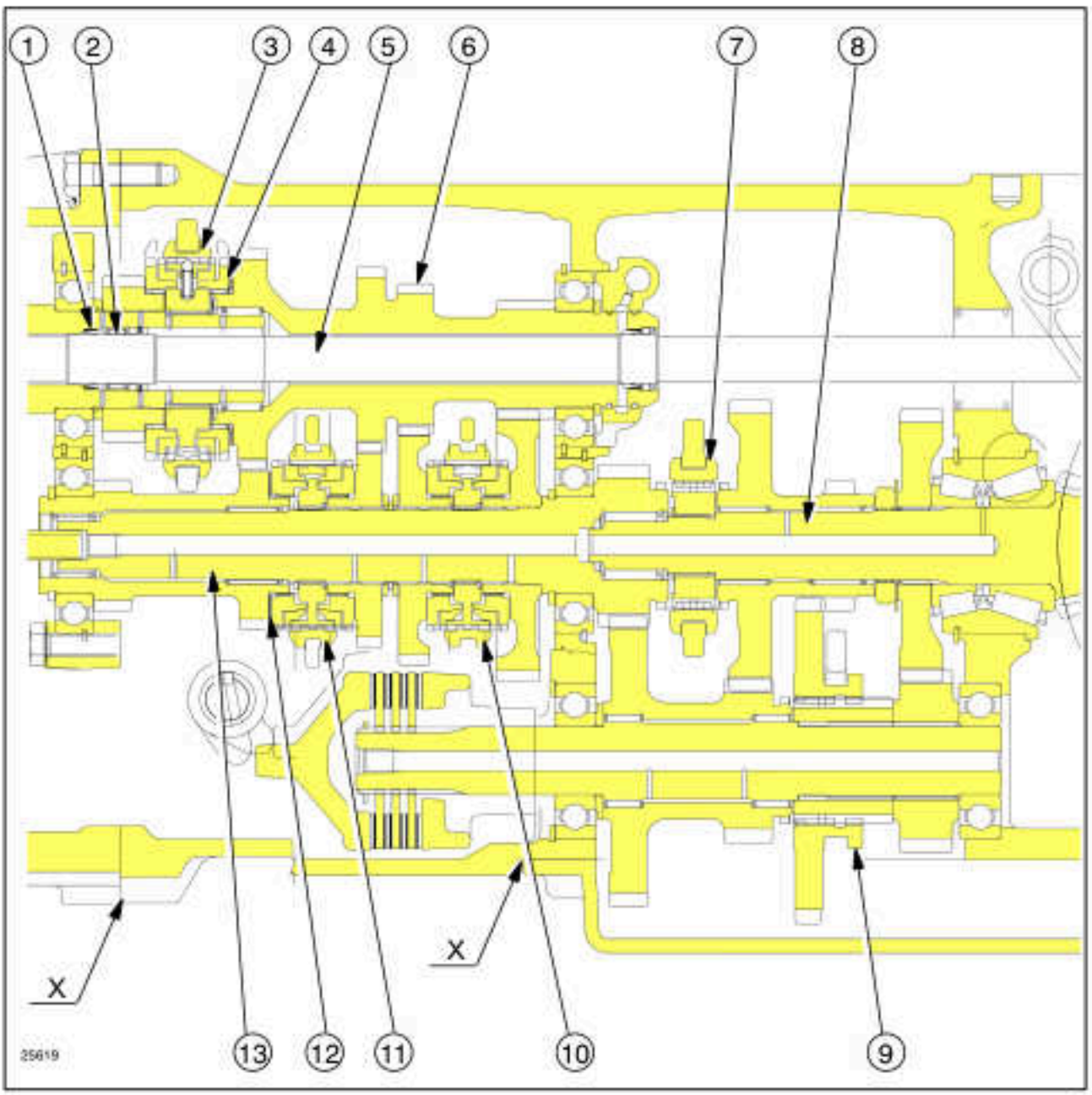
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ELECTRICAL CIRCUIT COMPONENTS (Continued)

SW-44	RH rear external electronic lift up/down switch
LMP-45	RH tail light
C-46	8A two-pin socket
C-47	40 A four-pin socket (North America)
LMP-48	LH tail light
C-49	25A two-pin socket
SW-52	Windscreen washer switch
SW-53	Windscreen wiper switch
M-54	Wiper motor
SW-55	Rear window wiper/washer switch
M-56	Rear wiper motor
GND-57	Cab ground
MOD-58	Radio
AUD-60	RH speaker
AUD-61	LH speaker
C-62	Fan unit connection
SW-63	Rotating beacon control switch
MOD-64	Permanent 4WD control unit
RES66	Fan speed resistor unit
SW-67	Ventilation and air-conditioning system electric fan switch
M-68	Ventilation and air-conditioning system electric fan
LMP-69	Fan control unit lamp
RLY-70	Conditioner relay
SEN-71	Electronic thermostat for air conditioner
SW-72	Air conditioner switch
C-73	Front work lights connection
SW-74	Work lights switch
MOD-75	Fuse box and cab relay
LMP-76	Cab RH front work light
LMP-77	Cab LH front work light
LMP-78	Cab RH rear work light
LMP-79	Cab LH rear work light
LMP-80	RH cab SMV light
LMP-81	LH cab SMV light
LMP-82	Cab overhead lighting
BAT-83	Battery
ALT-84	Alternator
M-85	Starter motor
SEN-86	Brake fluid level sensor
SEN-87	Air filter clogged sensor
C-88	Cigar lighter
SEN-89	Sediment unit filter sensor
M-90	Conditioner compressor
SEN-91	Filter/dryer sensor
SEN-92	Engine oil pressure sensor
SEN-93	Coolant temperature sensor

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SECTIONAL VIEWS



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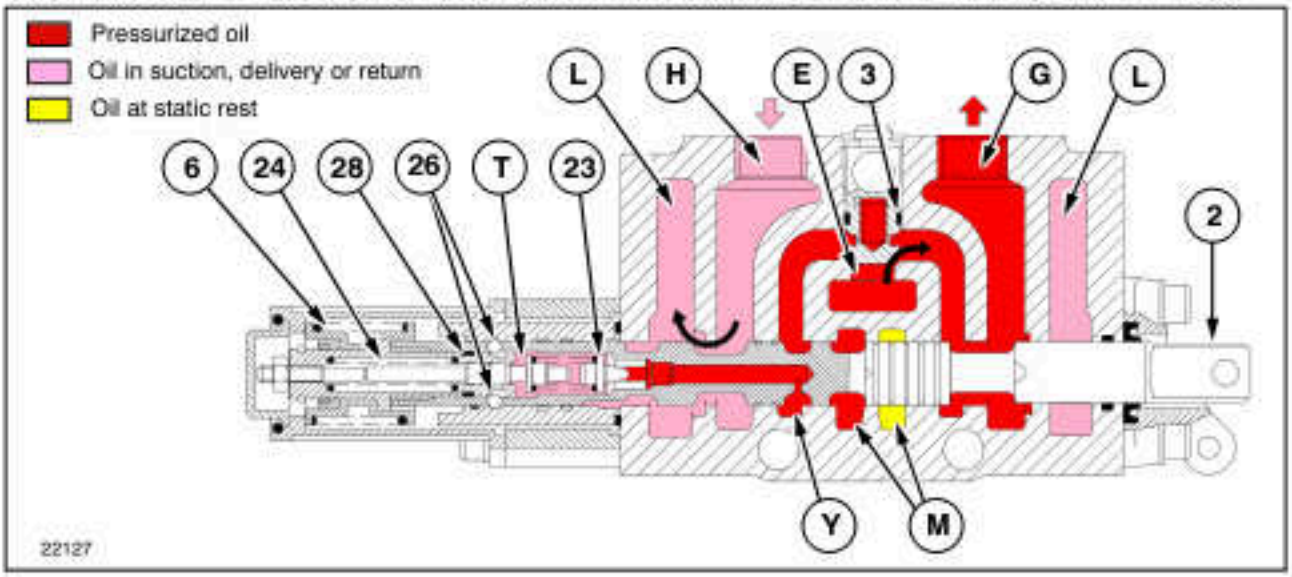
Longitudinal cross-sectional view of gearbox and gear range

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: *When fitting apply sealing compound to surfaces* ***X*** *as shown on page 30.*

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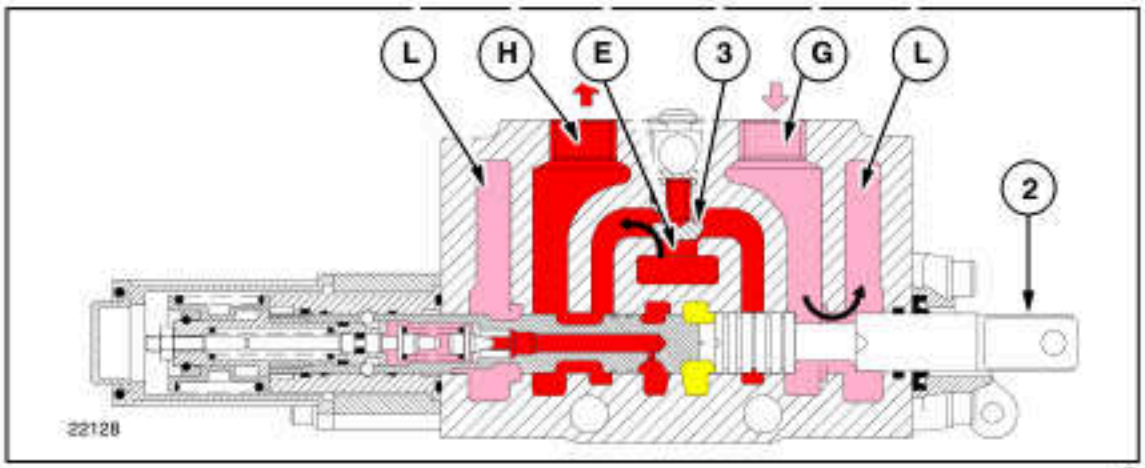
OPERATING STAGES OF AUXILIARY CONTROL VALVE FOR THE OPERATION OF A SINGLE/DOUBLE-ACTING CYLINDER WITH AUTOMATIC DETENT RELEASE AND FLOAT



8

Lifting

On pulling back the control lever (located in the cab), the control valve stem (2) shifts and the detent balls (26) engage the left hand groove, where they are held in place by the support (28) and spring (24). The movement of the spool (2) connects: delivery line (E) with the lower chamber of the cylinder, by way of the check valve (3) and the line (G), and also the upper cylinder chamber with the exhaust line (L) by way of line (H), intercepting the supply of oil to the hydraulic lift control valve. On completion of the lifting movement, the oil pressure increases to 170 to 175 bar (2466 to 2582 psi), acting through the port (V), it overcomes the resistance of the spring of the needle valve (23). Inside chamber (T) the oil pressure increases and, acting on the support (28), it overcomes the resistance of the spring, thus moving the support (28). In this condition the two detent balls (26) drop onto the support (28), releasing the stem (2) which, under the action of the spring (6), returns to the neutral position, and consequently the entire flow from the pump is conveyed to the lift control valve through lines (M).



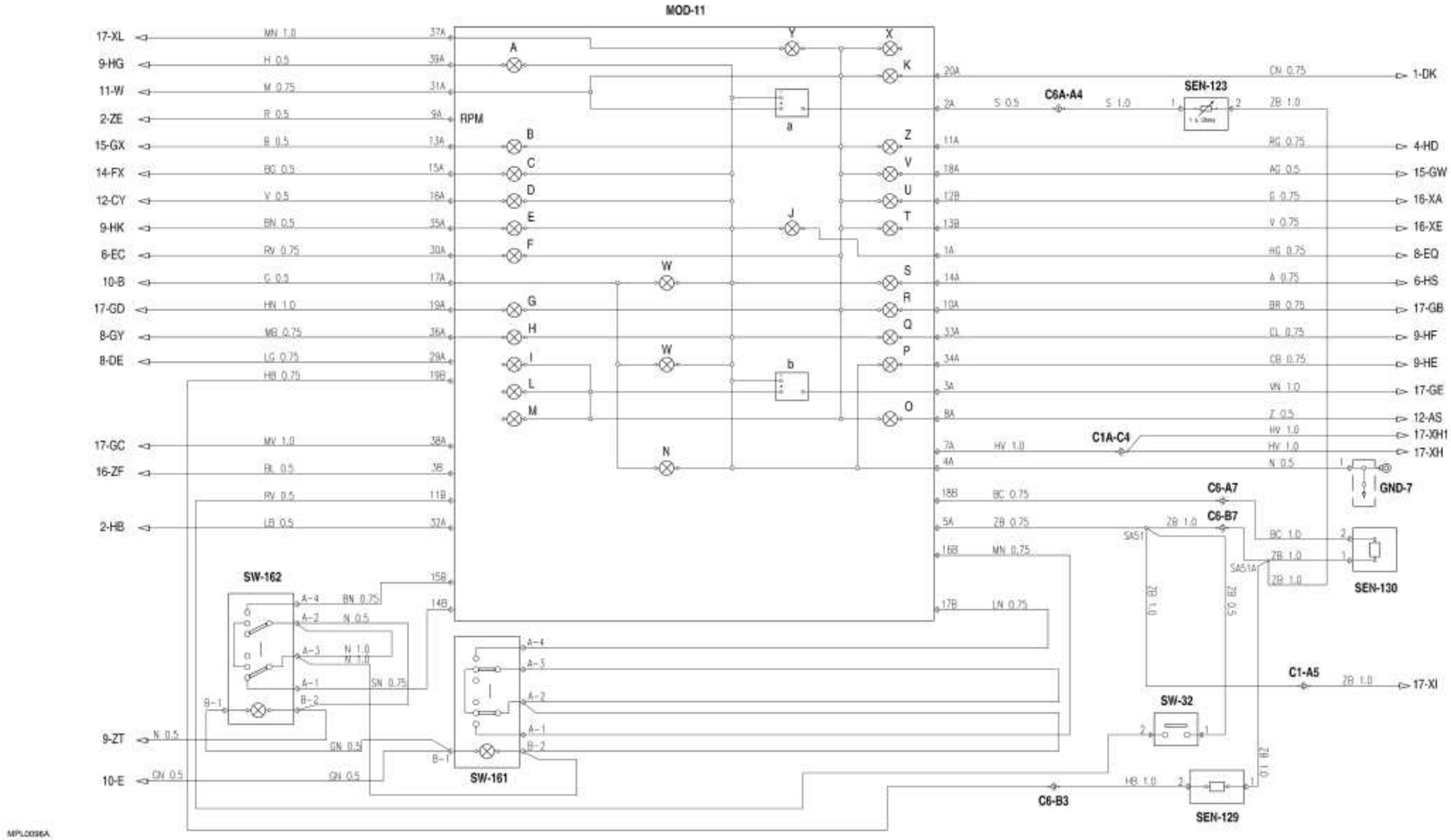
9

Lowering

To lower the implement, push forward the control lever (in the cab). The control valve stem(2) shifts and the detent balls (26) engage in the central groove 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 (L) by way of line (G), while the upper chamber is connected with the delivery (E) by way of line (H) and check valve (3). On completion of the lowering operation, the detent will be automatically released in the manner described previously.

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INSTRUMENT AND SENSOR CIRCUIT - DIAGRAM 7



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