SERVICE MANUAL

T4020V / T4030V / T4040V / T4050V / T4060V
T4030N / T4040N / T4050N / T4060N

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NEW HOLLAND
AGRICULTURE

MidWestTech | New Holland T4020V, T4030V, T4040V, T4050V, T4060V, T4030N, T4040N, T4050N, T4060N Tractor Service Manual | Publication 84150905B1

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SECTION 33 - BRAKES

Chapter 1 - Brakes

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DATA

Type:	
- service brake	with oil bath disk, acting on differential drive shafts
- parking brake	with oil bath disks, engaging a gear on the bevel pinion shaft
Control:	
- service brake	hydrostatic, with independent pedals (connected by means of a pin)
- parking brake	mechanical, by means of a hand lever
Service brake disk material	sintered
Parking brake disk material	steel
Parking brake mobile sectors material	sintered or organic agglomerate

(continued)

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SECTION 35 - HYDRAULIC SYSTEMS

CHAPTER 7 - Electro-hydraulically controlled side auxiliary spool valves

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SPECIFICATIONS

Filter	full-flow filter, with paper cartridge, (common to the hydraulic lift circuit)
Pump	gear pump (common to the hydraulic lift circuit see Chapter 5)
Side auxiliary control valves	
Location	spool valve block on the right of the driver's seat, outside the cab
Method of operation	with joystick secured to the right fender inside the cab
Pressure relief valve setting ... bar	190 ÷ 195 (194 ÷ 199 kg/cm^2)
Type	4 controlled delivery spool valves and two spool valves, with maximum flow rate of 20 l/min for hydraulic motor control

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FRONT LIFT TROUBLESHOOTING

(overleaf)

Problems	Possible Problem	Solutions
The lift is unable to keep the load raised (with the engine running, the load moves up and down rhythmically; with the engine turned off, the load lowers).	1. Faulty seal on check valve (8, fig. 19).	Dismantle, check and replace the parts concerned, if necessary.
	2. Oil leakage through solenoid valve (2).	Clean or replace the solenoid valve.
	3. Oil leaking past the lift cylinder seal or the seals on the cylinder oil delivery fitting.	Replace seals.
	4. Defective seal or maximum pressure valve set to very low value (1).	Check calibration and adjust or replace if necessary.
The pressure relief valve cuts in when the lift arms reach the completely raised position.	1. Calibration data incompatibility of front lift potentiometer.	Carry out lift arm calibration operations correctly.
The lift has poor lifting capacity.	1. Maximum pressure valve (1) not calibrated.	Renew it.
	2. System safety valve on pump incorrectly calibrated.	Renew it.
	3. Poor pump efficiency(generally combined with a considerable increase in lift time).	Overhaul or replace the pump.
The lift arms do not fully raise or lower.	1. Calibration data lost or incorrect.	Repeat the lift arms calibration operation.
Miscellaneous faults	1. For various reasons.	See faults code.

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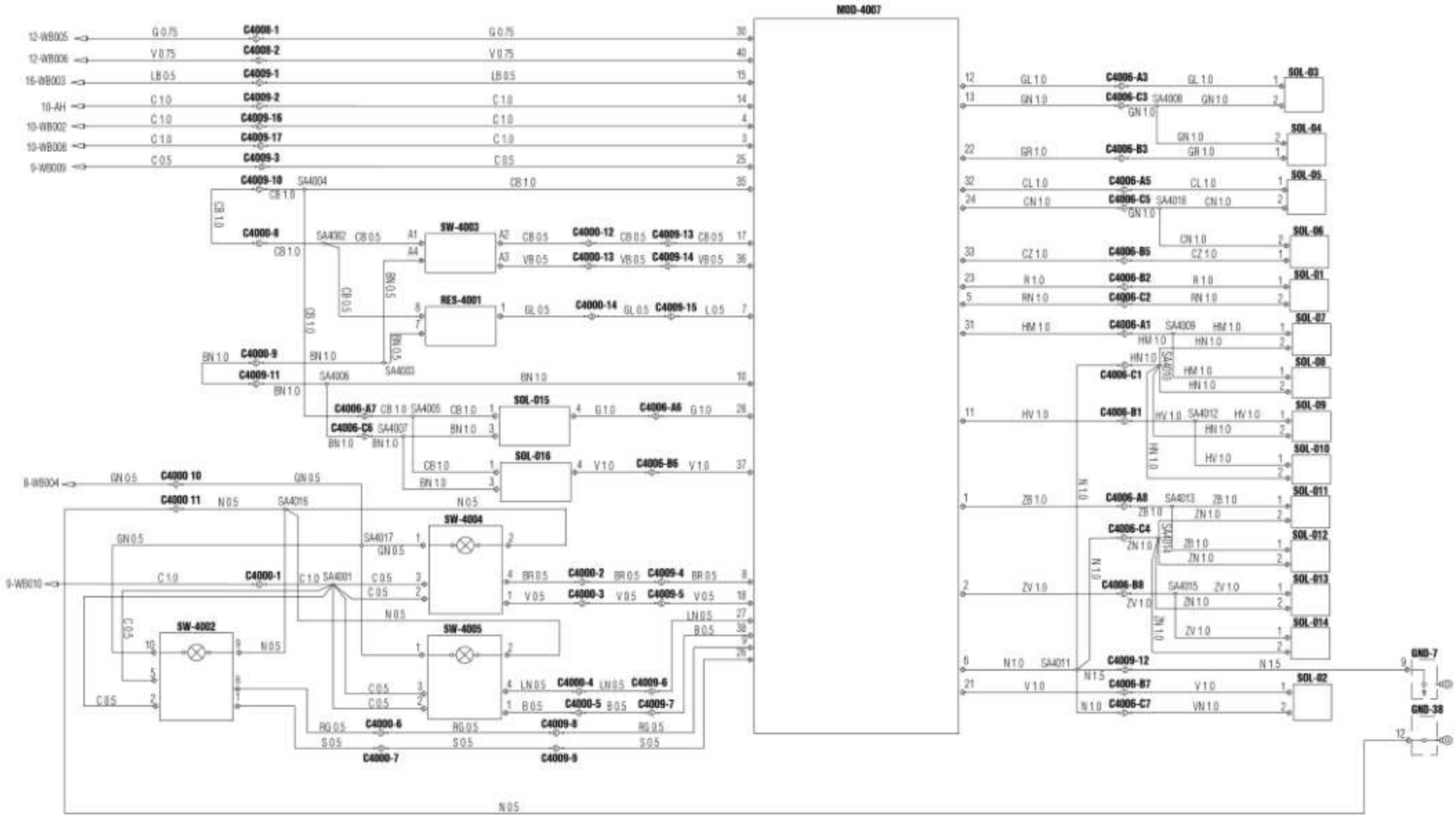
NOTE: The connectors not present in this list are shown on page 2.

ELECTRICAL CIRCUIT COMPONENTS

C-1	Front side connection - engine (24 PIN)
C-2	Cab system connection (8 PIN)
C-6	Transmission system connection (24 PIN)
C-9	Power-Shuttle transmission system connection (24 PIN)
MOD-11	Instrument
C-21	Power-Shuttle system connection (6 PIN)
MOD-25	Fuse box and main relay
CB-040	Battery isolator module connection
RLY-41	Battery isolator relay
CB-043	Battery isolator
C-046	Battery isolator connection
D-047	Battery isolator diode
SW-097	Battery isolator switch
C-228	Connection for four-wheel drive switch
SW-228	Four-wheel drive switch
C-1001	Rotating beacon power socket
SW-1200	Park lock switch
C-4000	Mid mount control connection
RES-4001	Hydraulic motor potentiometer
SW-4002	Motor mode switch
SW-4003	Joystick
SW-4004A	X axis switch
SW-4004B	X axis switch lamp
SW-4005A	Y axis switch
SW-4005B	Y axis switch lamp
C-4006	Mid mount transmission connection
	SOL-01 Mid mount valves Motor-PP solenoid valve
	SOL-02 Mid mount valves Motor-EN solenoid valve
	SOL-03 Mid mount valves MMX-A solenoid valve
	SOL-04 Mid mount valves MMX-B solenoid valve
	SOL-05 Mid mount valves MMY-A solenoid valve
	SOL-06 Mid mount valves MMY-B solenoid valve
	SOL-07 Mid mount valves A1 solenoid valve
	SOL-08 Mid mount valves B1 solenoid valve
	SOL-09 Mid mount valves A2 solenoid valve
	SOL-010 Mid mount valves B2 solenoid valve
	SOL-011 Mid mount valves A3 solenoid valve
	SOL-012 Mid mount valves B3 solenoid valve
	SOL-013 Mid mount valves A4 solenoid valve
	SOL-014 Mid mount valves B4 solenoid valve
	SOL-015 Mid mount valves SPSL1 solenoid valve
	SOL-016 Mid mount valves SPSL2 solenoid valve
MOD-4007	Mid mount control unit
C-4008	Mid mount valves signal connection
C-4009	Mid mount valves can bus connection

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MID MOUNT CONTROL VALVES CIRCUIT - DIAGRAM 27



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