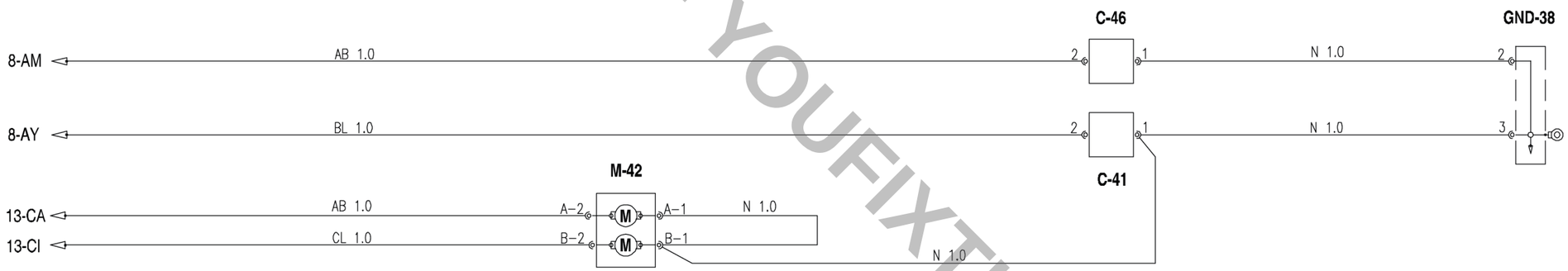
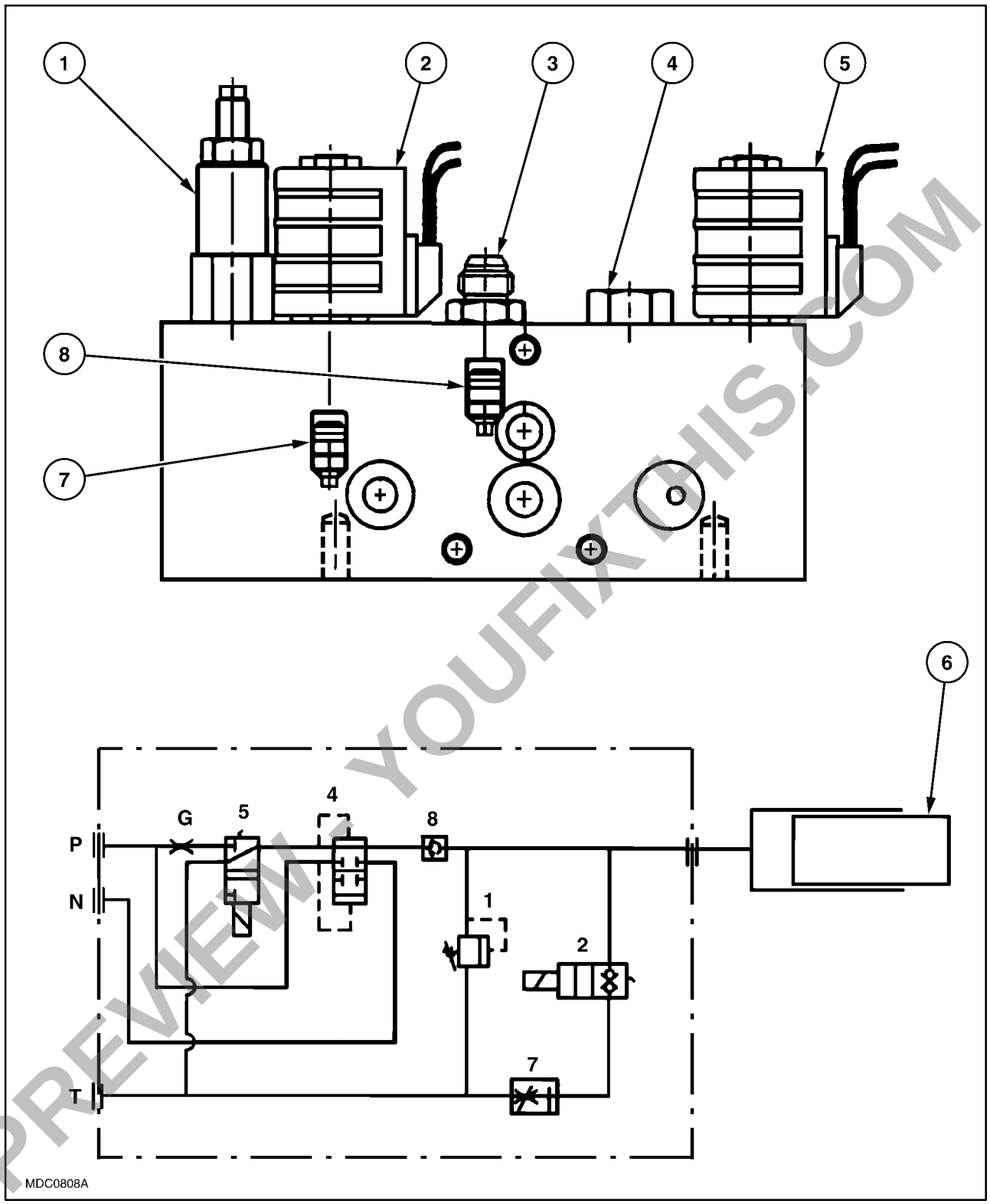
POWER SOCKET, WIPER/WASHER PUMPS CIRCUIT - DIAGRAM 1



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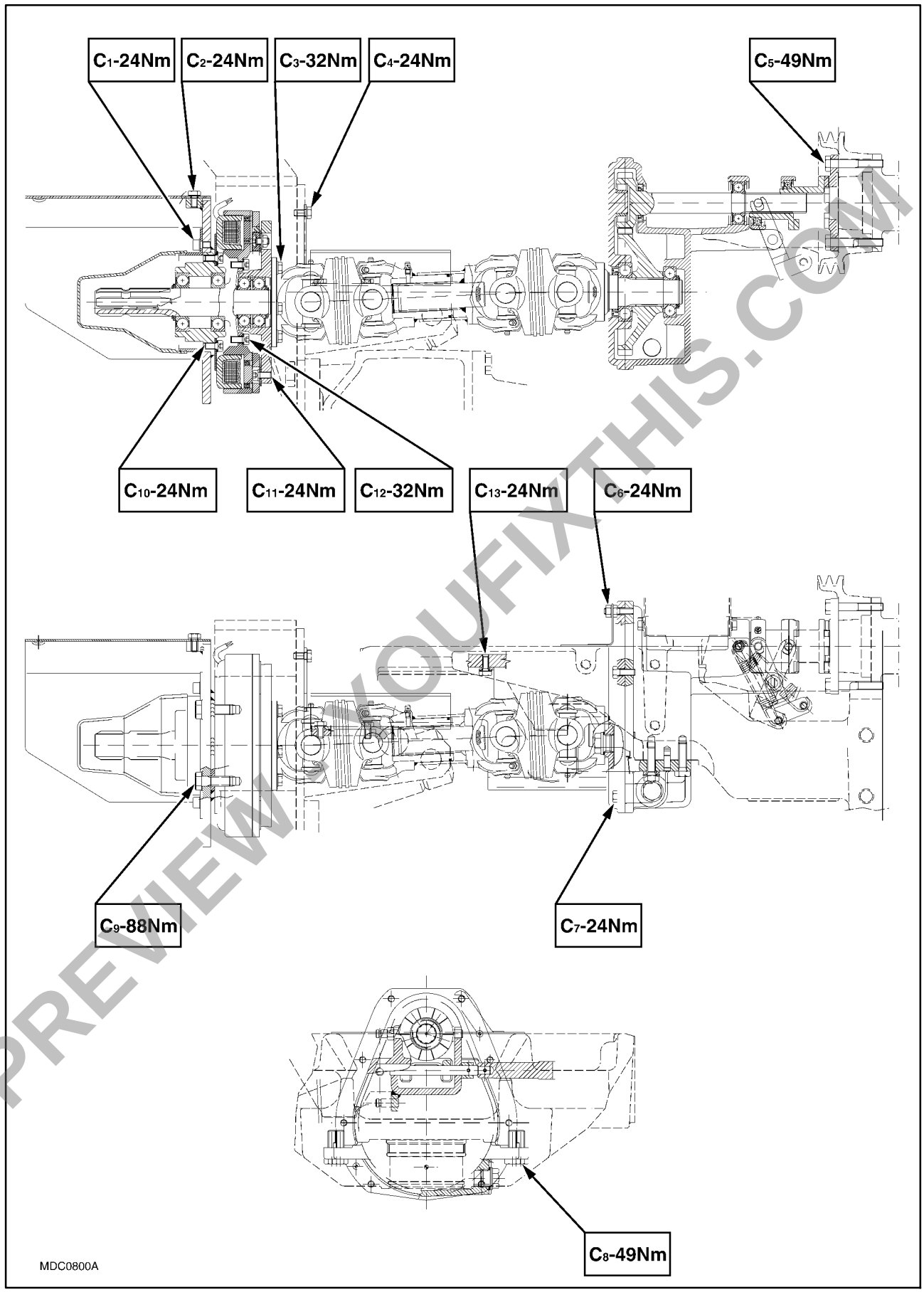


19

Front lift valve body hydraulic diagram

1. High pressure relief valve.
2. Arms down solenoid valve.
3. Straight union.
4. Pressure compensator with by-pass.
5. Arms up solenoid valve.
6. Arms lifting cylinders.
7. Compensated valve for arms descent control.
8. Non-return valve.

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1

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IMPLEMENT HITCHING DEVICE DATA

(overleaf)

Type	three-point linkage
Category: Working depth control	1st by means of the knob (11, fig. 8) located on the multi-indicator panel
Maximum lift capacity with lifting attachment third point (1, fig. 15) connected to the upper hole on the lifting attachment support for the full lifting stroke	
at link ends of horizontal arms:	
- arms pivoted in position (A, fig. 16) kg	1230
- arms pivoted in position (B) kg	1430
with centre of gravity at 610 mm. from link ends:	
- arms pivoted in position (A) kg	1330
- arms pivoted in position (B) kg	1500

BOLT TORQUES

PARTS TO BE TIGHTENED	Thread	Tightening torque	
		Nm	kgm
Front power take-off			
Power take-off clutch coupler flange retaining bolts (C_1, fig. 1)	M 8	24	2.5
Power take-off guard retaining bolts (C_2)	M 8	24	2.5
Flange/coupler retaining bolts (C_3)	M 8	32	3.3
Guard retaining bolts (C_4)	M 8	24	2.5
Power take-off driving flange retaining bolts (C_5)	M 10	49	5
Upper guard retaining nuts (C_6)	M 8	24	2.5
Power take-off gearbox casing retaining bolts (C_7)	M 8	24	2.5
Gearbox/support retaining bolts (C_8)	M 10	49	5
Electromagnetic clutch/coupler flange retaining bolts (C_9)	M 12	88	9
Electromagnet/coupler flange retaining bolts (C_{10})	M 8	24	2.5
Spring/clutch ring retaining bolts (C_{11})	M 8	24	2.5
Electromagnet rotor/coupler flange retaining bolts (C_{12})	M 8	32	3.3
Lower guard retaining bolts (C_{13})	M 8	24	2.5
Front lift implement linkage			
Lift arms position sensor support retaining bolts (C_1, fig 2)	M 8	24	2.5
Cylinder pivot front pin retaining bolts (C_2)	M 8	24	2.5
Hydraulic cylinder bolt (C_3)	M 8	24	2.5
Arms pivot pin retaining bolts (C_4)	M 10	31	3.2
Cylinder pivot rear pin retaining bolts (C_5)	M 8	24	2.5
Implement linkage support retaining bolts (C_6)	M 18	304	31

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ELECTRONICALLY CONTROLLED REAR HYDRAULIC LIFT (EDC) FAULT CODES

1008 Fast up/down switch failure (page 6).
1009 Both external switches operated at same time (page 7).
1010 Voltage too low on the maximum arms raise potentiometer (page 8).
1011 Voltage too high on the maximum arms raise potentiometer (page 9).
1012 Voltage too low on the lowering speed potentiometer (page 10).
1013 Voltage too high on the lowering speed potentiometer (page 11).
1021 Voltage too low on the position/draft control potentiometer (page 12).
1022 Voltage too high on the position/draft control potentiometer (page 13).
1023 Rear lift control panel disconnected (page 14).
1024 Calibrate the arms (page 15).
1025 Voltage too low on the working depth control potentiometer (page 16).
1026 Voltage too high on the working depth control potentiometer (page 17).
1027 Voltage too low on the lift arms position potentiometer (page 18).
1028 Voltage too high on the lift arms position potentiometer (page 19).
1029 Lift solenoid valves disconnected (page 20).
1031 Chassis harness disconnected (page 21).
1032 Short circuit to +12 V on the draft sensor (page 22).
1033 Open circuit on the draft sensor (page 25).
1040 Lift not calibrated (page 24).
1042 Lowering limit potentiometer not set on maximum value (page 25).
1043 Lowering speed potentiometer not set on maximum value (page 26).
1044 Set position/draft control potentiometer not in position (page 27).
1063 Open circuit on the lowering control solenoid valve (page 28).
1064 Open circuit on the lifting control solenoid valve (page 29).
1065 Lowering control solenoid valve shorted (page 30).
1066 Lifting control solenoid valve shorted (page 31).
1068 Max. raise limit potentiometer not set on maximum value (page 32).
1080 Voltage too low on the lowering limit potentiometer (page 33).
1081 Voltage too high on the lowering limit potentiometer (page 34).

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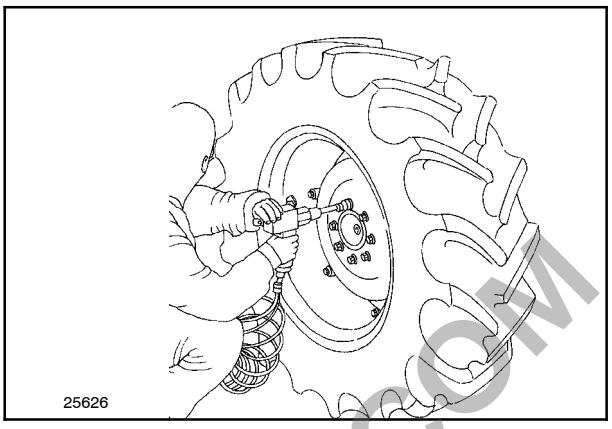
PARKING LOCKING ON THE TRANSMISSION Removal-Installation

WARNING

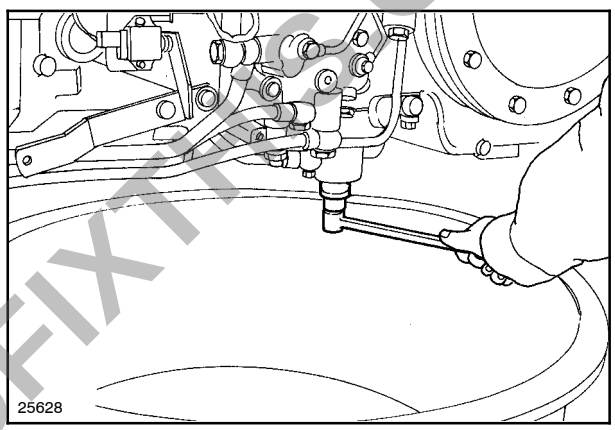
Handle all parts with care. Do not put your hands or fingers between parts. Wear the prescribed safety clothing, including goggles, gloves and safety footwear.

Proceed as follows.

1. Raise the rear of the tractor, position a fixed stand under the transmission, unscrew the relevant fixing screws and detach the left rear wheel.
2. Remove the drain plug from the drive box and collect the oil in a suitable container.

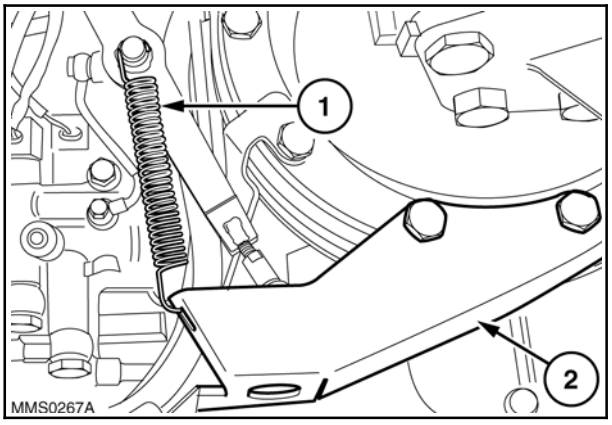


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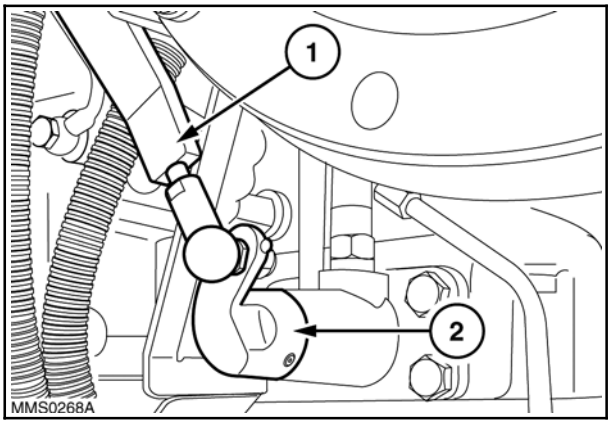
36

3. Unhook the return spring (1), unscrew the relevant screws and to detach the guard (2).



37

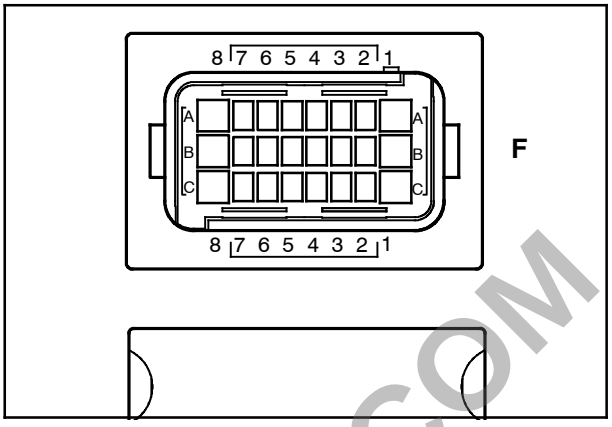
4. Detach the control rod (1) from the external lever (2) for parking locking on the transmission.



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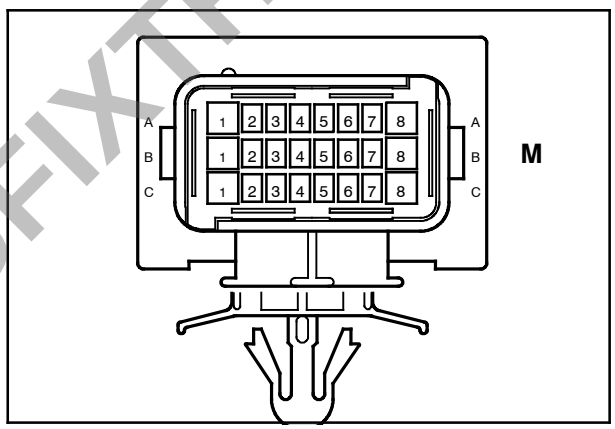
Pin	Col.	Sect.	Pin	Col.	Sect.
A1	RN	2.5	B5	MN	0.75
A2	MV	0.75	B6	S	0.75
A3	VN	0.75	B7	-	-
A4	N	1.0	B8	-	-
A5	ZB	1.0	C1	-	-
A6	SL	1.0	C2	SG	1.0
A7	-	-	C3	HN	0.75
A8	-	-	C4	HV	0.75
B1	-	-	C5	L	1.0
B2	HR	1.0	C6	Z	1.0
B3	RV	1.0	C7	-	-
B4	LR	1.0	C8	-	-



1

For model with cab.
MAIN CABLE SIDE

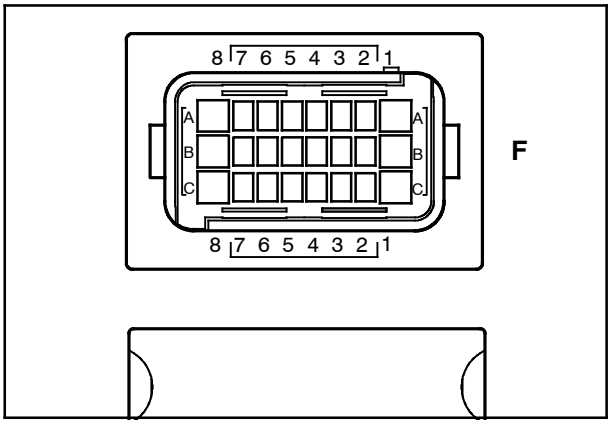
Pin	Col.	Sect.	Pin	Col.	Sect.
A1	RN	2.5	B5	MN	1.0
A2	MV	1.0	B6	S	1.0
A3	VN	1.0	B7	-	-
A4	N	1.0	B8	-	-
A5	ZB	1.0	C1	-	-
A6	SL	1.0	C2	SG	1.0
A7	-	-	C3	HN	1.0
A8	-	-	C4	HV	1.0
B1	-	-	C5	L	1.0
B2	HR	1.0	C6	Z	1.0
B3	RV	1.0	C7	-	-
B4	LR	1.0	C8	-	-



2

For model with cab.
ENGINE CABLE SIDE

Pin	Col.	Sect.	Pin	Col.	Sect.
A1	RN	2.5	B5	MN	0.75
A2	MV	0.75	B6	S	0.75
A3	VN	0.75	B7	-	-
A4	N	1.0	B8	-	-
A5	ZB	1.0	C1	-	-
A6	SL	1.0	C2	SG	1.0
A7	-	-	C3	HN	0.75
A8	-	-	C4	HV	0.75
B1	-	-	C5	-	-
B2	HR	1.0	C6	Z	1.0
B3	RV	1.0	C7	-	-
B4	LR	1.0	C8	-	-



3

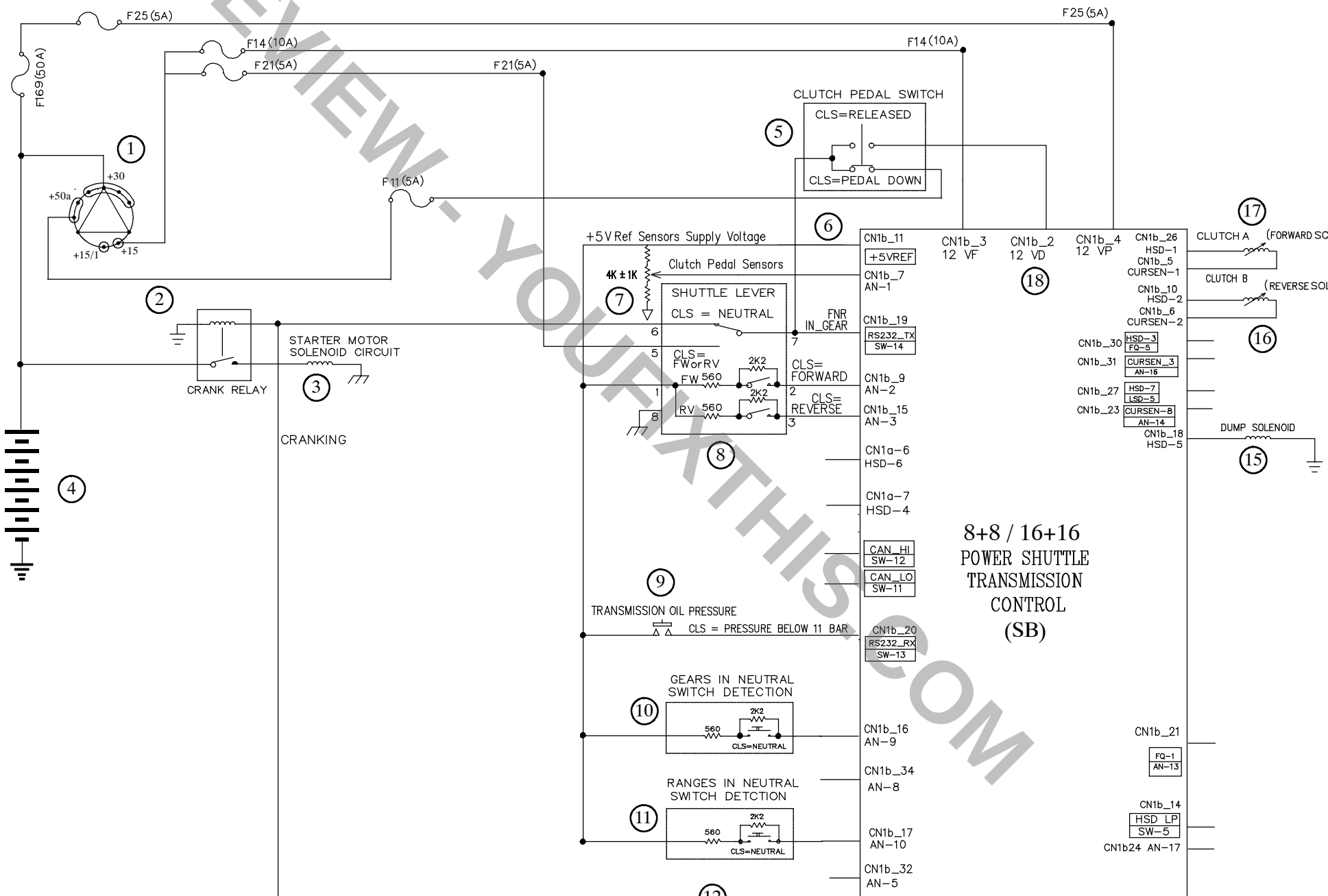
For model without cab.
MAIN CABLE SIDE

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INPUT/OUTPUT WIRING DIAGRAM FOR THE ELECTRONIC CONTROL UNIT OF POWER SHUTTLE 8+8 / 16+16 (SB)



FRONT LIFT TROUBLESHOOTING

Problems	Possible Problem	Solutions
The lift does not rise.	1. Clogged oil filter.	Replace filter.
	2. Arms up solenoid valve (5, fig. 19) locked in discharge position.	Release the solenoid valve.
	3. Hydraulic pump inefficient.	Overhaul or replace the pump.
The lift moves in jerks.	1. Clogged oil filter.	Replace filter.
	2. Air in the pump suction line.	Check that the unions are airtight and the seals are efficient.
The lift raises too slowly.	1. Clogged oil filter.	Replace filter.
	2. Oil leakage through the seals with consequent pressure drop: cylinder seals or on the delivery unions to the cylinders.	Replace damaged seals.
	3. Hydraulic pump inefficient.	Overhaul or replace the pump.
	4. Pressure compensator (4, fig. 19) faulty.	Disassemble and clean the pressure compensator.
	5. Maximum pressure valve (1) not calibrated.	Carry out calibration on work bench
The lift lowers too slowly.	1. Pressure compensator (7, fig. 19) faulty.	Disassemble and clean the pressure compensator.
The lift lowers too quickly.	1. Pressure compensator (7, fig. 19) faulty.	Disassemble and clean the pressure compensator.

(continued)

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GENERAL SPECIFICATIONS	
Engine, technical type:	
– mod. T4050V and T4050N – type F4CE9484M*J602 (BOSCH pump)	
– mod. T4060V and T4060N – type F4CE9484L*J603 F4CE9484L*J602 (BOSCH pump)	
Cycle	diesel, 4–stroke
Fuel injection	Direct
Number of cylinders in line	4
Piston diameter	104 mm
Piston stroke	132 mm
Total displacement	4485 cm^3
Compression ratio	17,5:1
Maximum Power Output:	
– mod. T4050V and T4050N – type F4CE9484M*J602	71 kW (97 Hp)
– mod. T4060V and T4060N – type F4CE9484L*J603 F4CE9484L*J602	79 kW (107 Hp)
Maximum power speed	2300 rpm
– Maximum torque: mod. T4050V and T4050N – type F4CE9484M*J602	418 Nm
Maximum torque speed	1300 rpm
Number of main bearings	5
Sump pan	structural, cast iron
Lubrication	forced, with lobe pump
Pump drive	from crankshaft
Engine speed/oil pump speed ratio	1:1
Oil filtration	mesh screen on oil pick–up and filter cartridge in delivery line
Normal oil pressure with motor warmed–up	
at slow idling	1.2 bar
at fast idling	3.9 bar

(continued)

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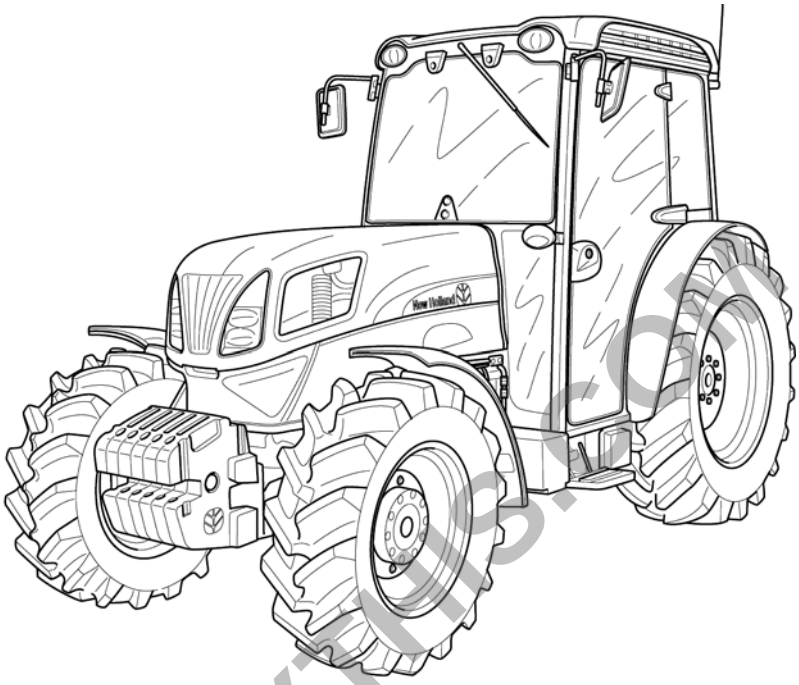
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T4020V – T4030V – T4030N – T4040V – T4040N – T4050V – T4050N – T4060V – T4060N TRACTORS
SERVICE MANUAL

SECTIONS

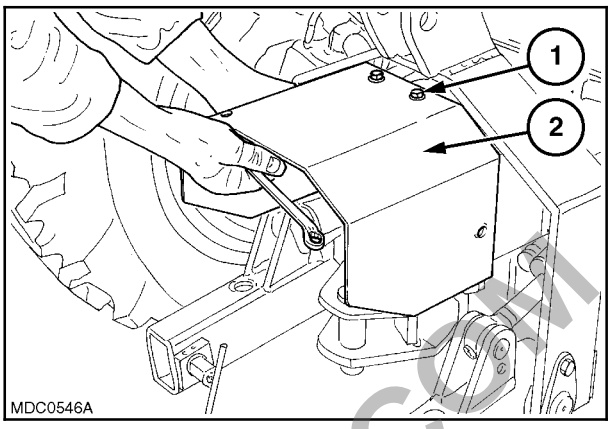
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CAB AIR CONDITIONING SYSTEM 50
ELECTRICAL SYSTEM 55
CAB 90

T E C H N I C A L S U P P O R T

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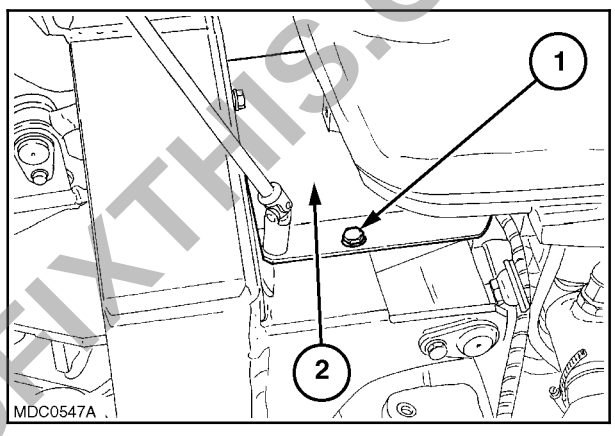
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4. Remove the retaining bolts (1) and disassemble the guard (2) on the front power take-off.



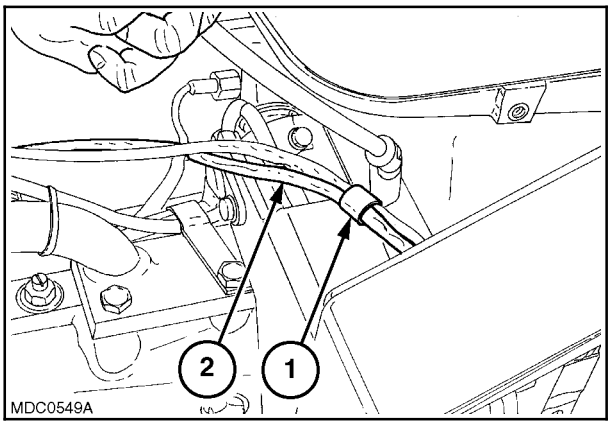
23

5. Remove the retaining bolts (1) and disassemble the upper guard (2) on the front lift.
6. Carry out operation **10 406 10** : Radiator, only removal (see Sect. 10, Chapter 1, page 91).



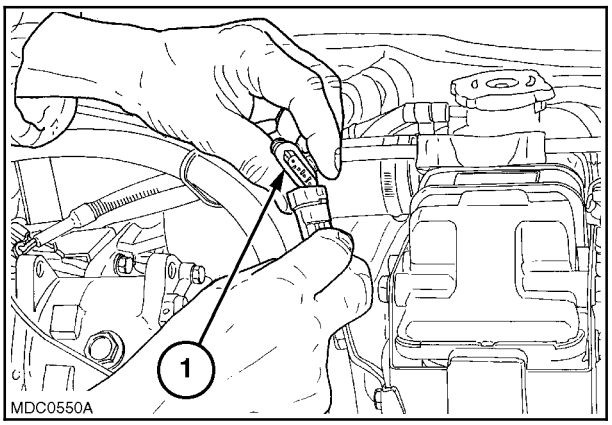
24

7. Remove the retaining brackets (1) and the electric cable clamps (2) that supply the electromagnetic coupling and the front lift arms position sensor, from the power steering piping.



25

8. Disconnect the electrical connection (1) on the electromagnetic coupling.



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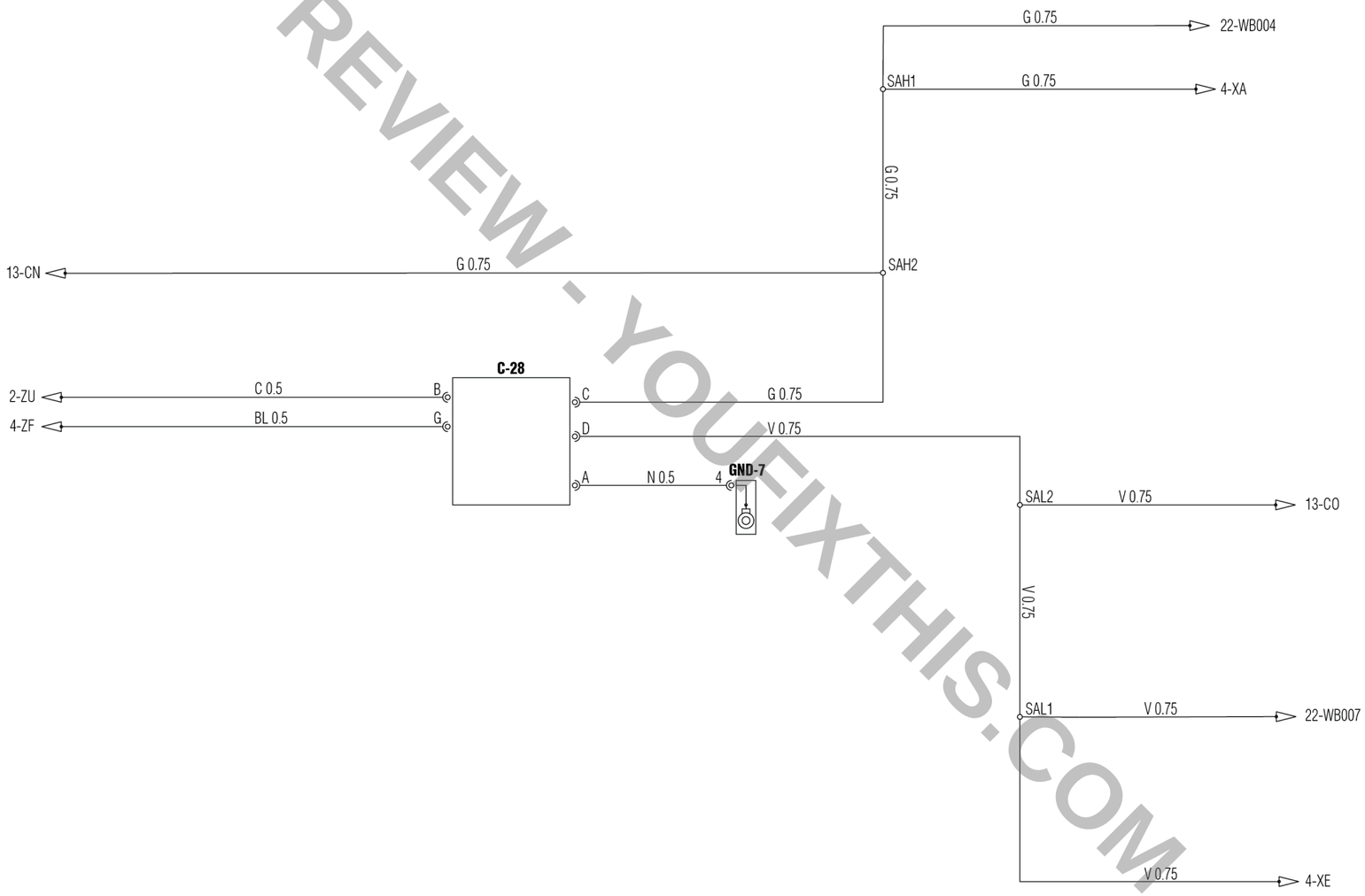
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C-1001	Rotating beacon power socket	
SW-1200	Park lock switch	
C-4000	Mid mount control connection	
RES-4001	Hydraulic motor potentiometer	
SW-4002	Motor mode switch	
SW-4003	Joystick	
SW-4004A	X axis switch	
SW-4004B	X axis switch lamp	
SW-4005A	Y 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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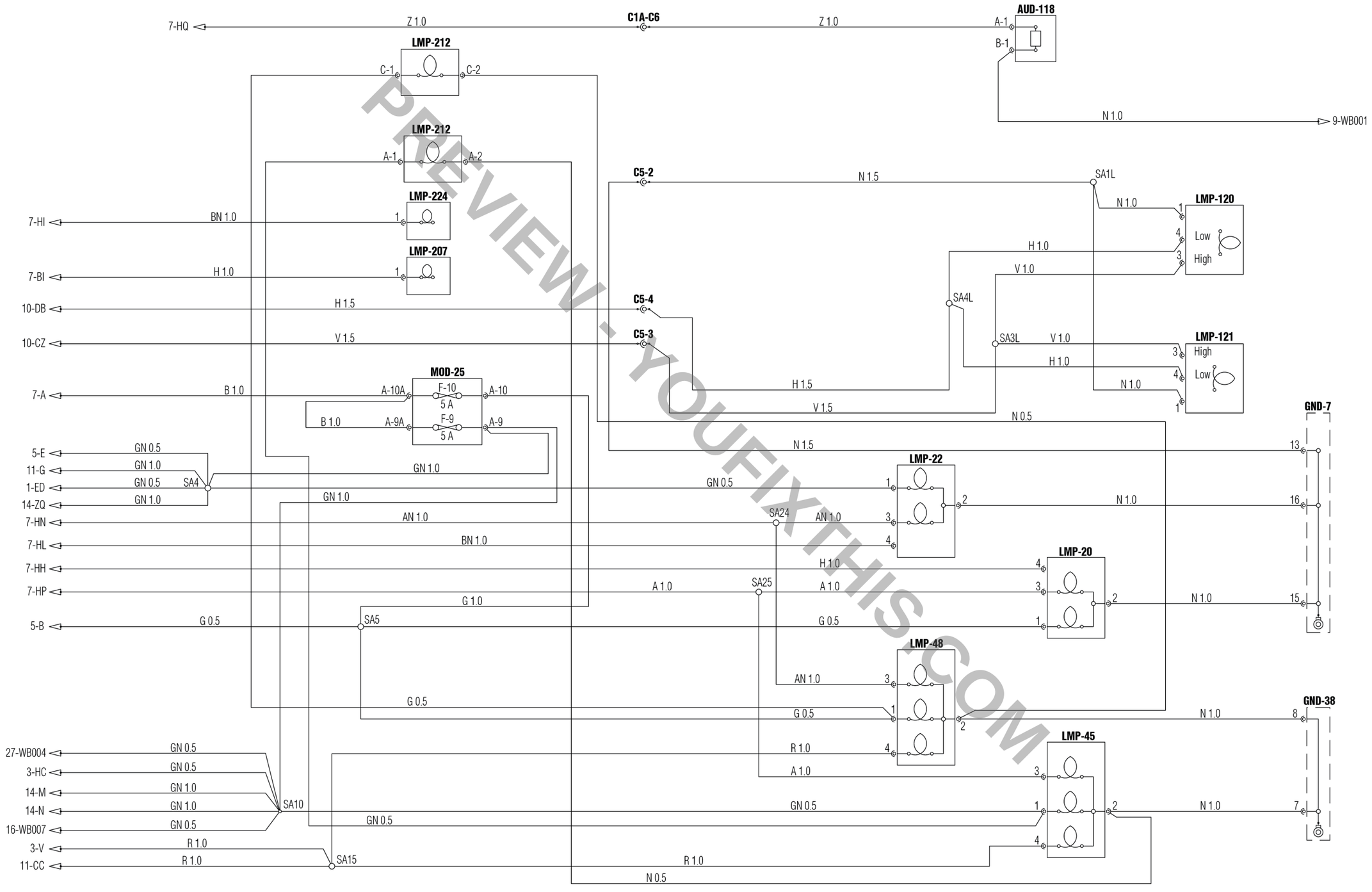
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DIAGNOSTICS CONNECTION CIRCUIT - DIAGRAM 11



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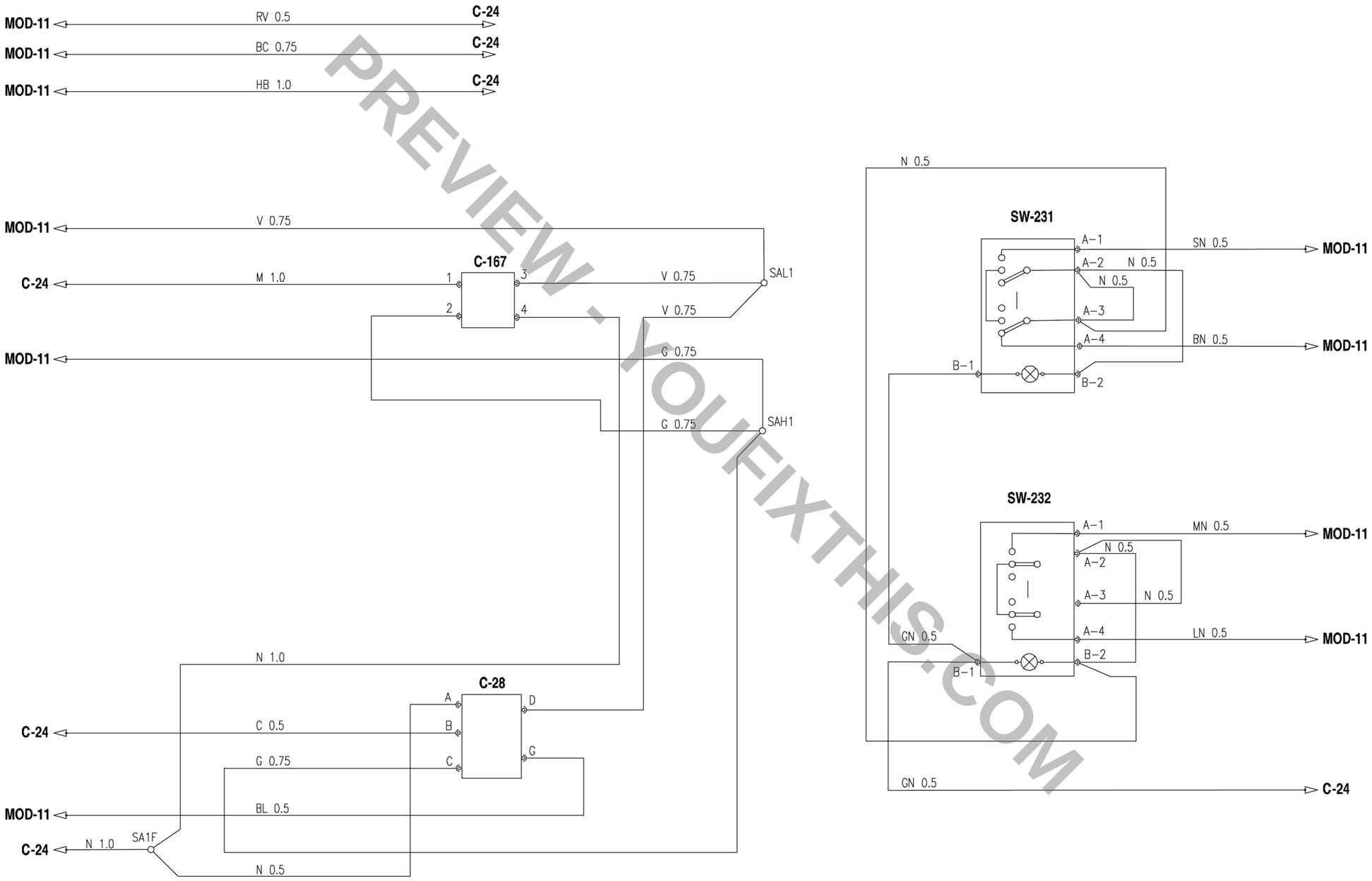
EXTERNAL LIGHTS AND HORN CIRCUIT - DIAGRAM 8



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DIGITAL INSTRUMENT CIRCUIT, DIAGNOSTICS CONNECTION AND CAN LINE CIRCUIT - DIAGRAM 29



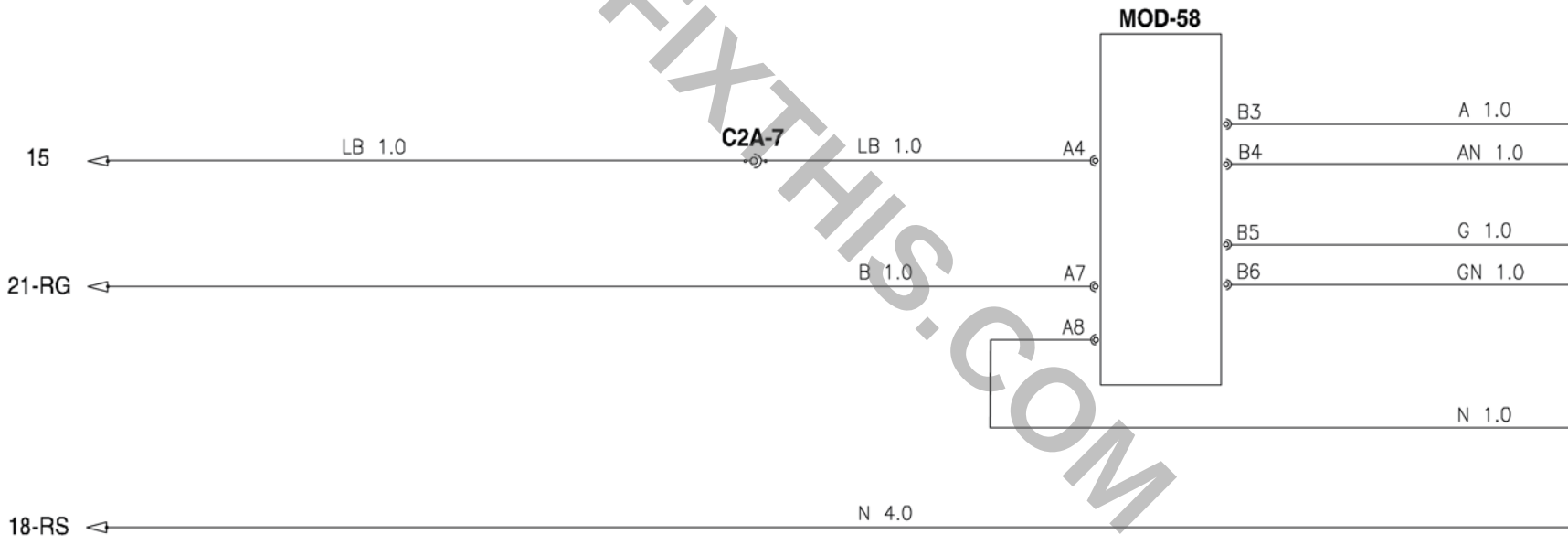
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RADIO CIRCUIT - DIAGRAM 20



SEVEN-PIN SOCKE

C-6	Transmission system connec
C-14	Seven-pin socket connection
C-14A	ISO seven-pin socket
C-14B	North American seven-pin so
GND-38	Rear ground
LMP-210	Number plate light
SOL-226	Second control valve solenoid
SOL-227	Third control valve solenoid v
C-1000	Hydraulic adjustment circuit c

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POWER SOCKE

GND-38	Rear ground
C-41	Seat connection
M-42	Front and rear window washe
C-46	8A two-pin socket

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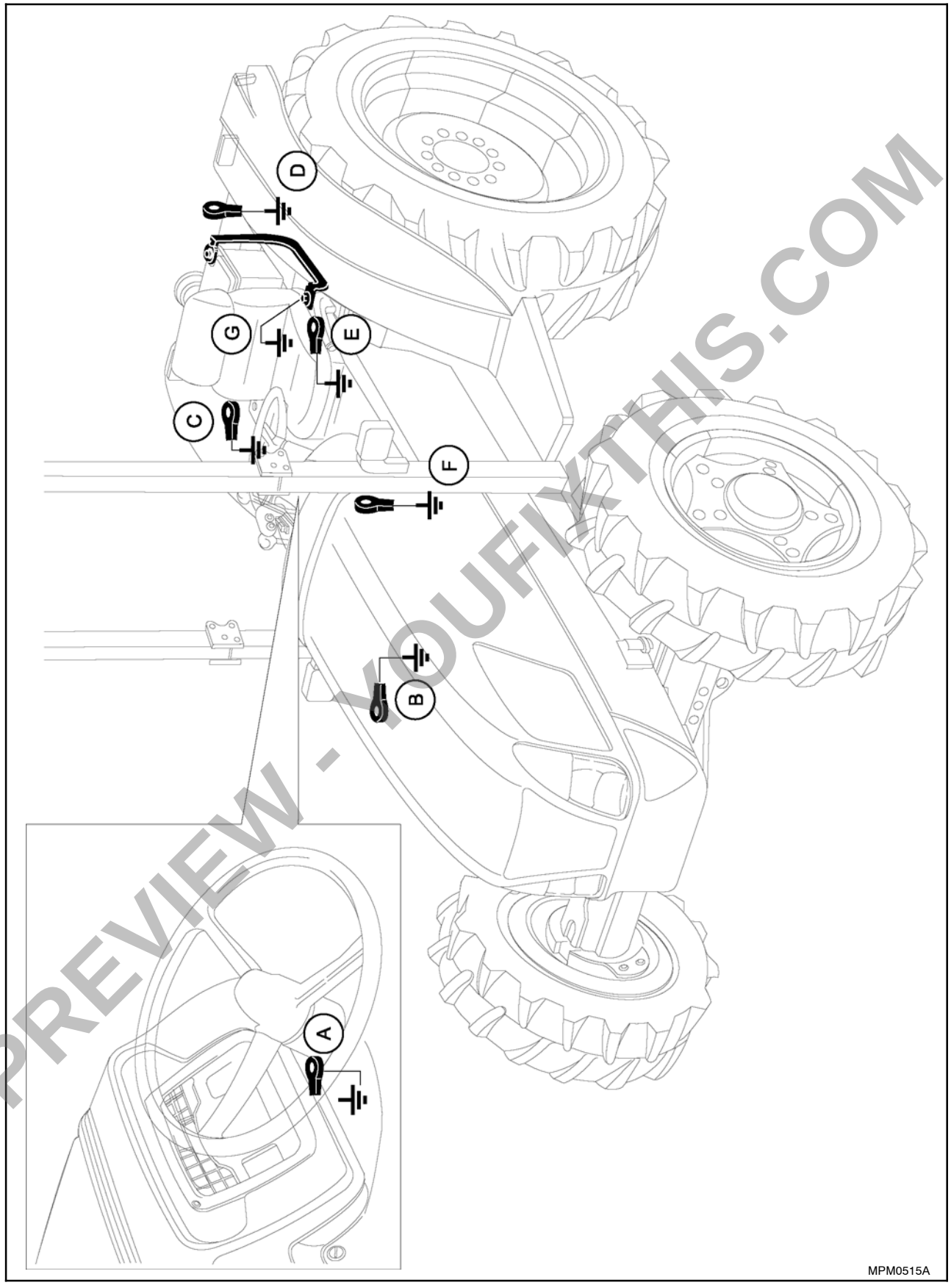
W

C-2	Cab system connection (8 PI
GND-57	Cab ground
SW-74	Work lights switch
LMP-76	Cab front RH work light
LMP-77	Cab front LH work light
LMP-78	Cab rear RH work light
LMP-79	Cab rear LH work light
LMP-82	Cab overhead lighting

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GROUND POINTS LAYOUT



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BRAKES, BRAKE L

C-6	Transmission system connec
GND-7	Dashboard ground
MOD-25	Fuse box and main relay
RLY-1C	Brake lights circu
RLY-2C	Differential lock c
RLY-3C	Differential lock c
RLY-4C	Differential lock c
RLY-1D	4WD circuit
RLY-2D	Steering switch c
F-19	Stop Lights
F-25	Battery isolator c
SW-36	Differential lock switch
SW-39	Parking brake switch
SW-116	Differential lock indicator swit
SOL-117	Differential lock solenoid valv
SW-136	Stoplamp switch
C-166	Brake lights signal test conne

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GRID HEATER, BRAKE FLU

C-6	Transmission system connection
GND-7	Dashboard ground
C-16	Electronic thermostarter connecti
GND-38	Rear ground
C-46	8A two-pin socket
SEN-86	Brake fluid level sensor
GND-106	Four-wheel drive indicator groun
SW-125	Shuttle lever switch
MOD-156	Grid heater electronic module
RLY-157/158	Grid heater relay
RES-159	Inlet Grid Heater
F-160	125A Maxi-fuse

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