Farmall 45A
Farmall 50A
Tractor

SERVICE MANUAL

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CASE IH
AGRICULTURE

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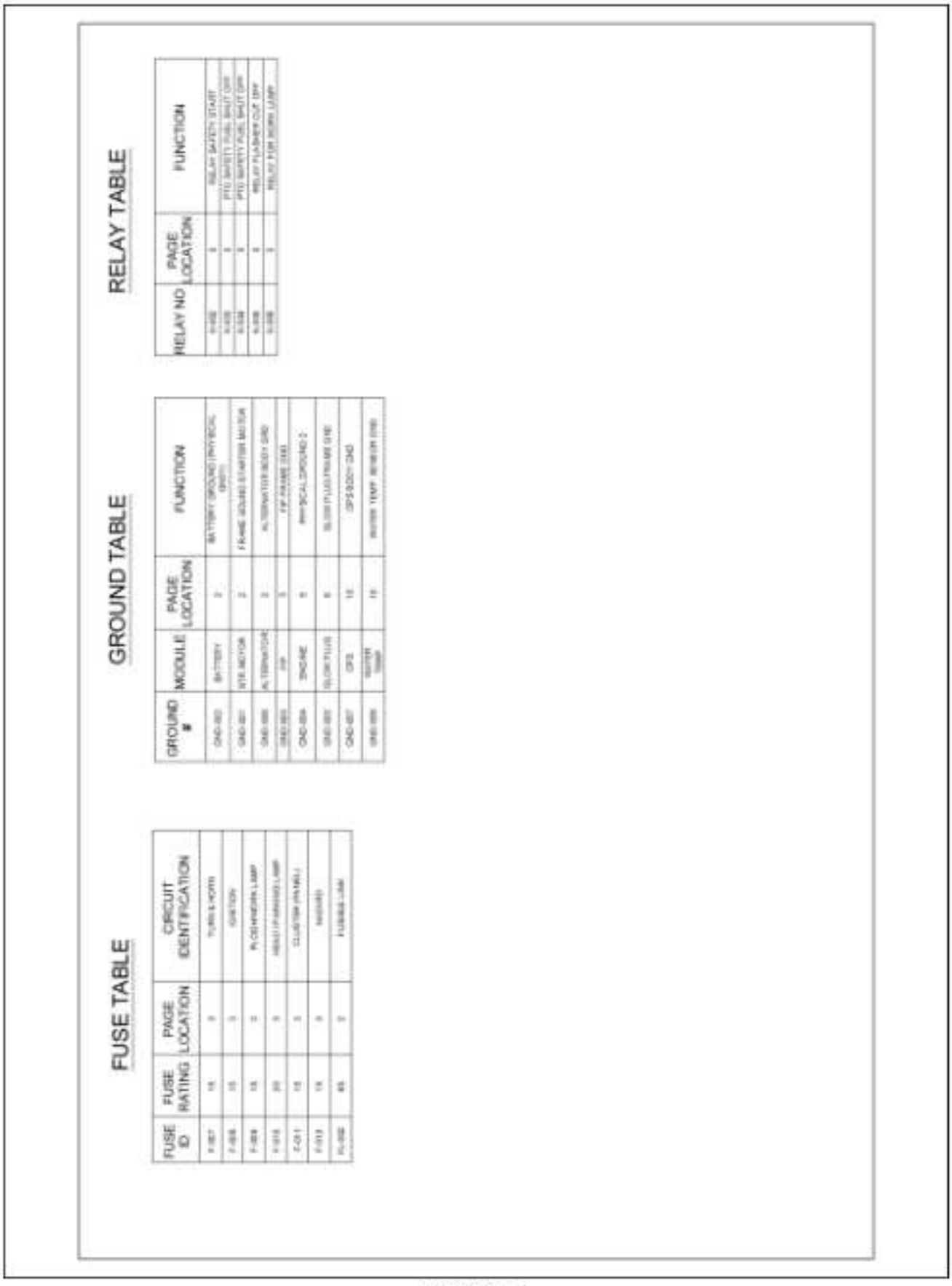
Hydraulic systems - Troubleshooting

Problem	Possible Cause	Correction
Lift arms lift jerky	Hydraulic oil level low	Add hydraulic oil to correct level
	Suction Filter is clogged	Replace oil filter
	Pump has an air suction leak	Check all inlet pipe connections
Lift arms do not lift	Inner control valve spool not shifting to open position	Remove control valve and clean spool
	Regulator valve not shifting	Remove and clean regulator valve
Lift arms do not lower	Discharge valve blocked	Remove discharge valve and clean
	Lowering response valve closed	Open lowering response valve by turning counterclockwise
Lift arms do not lower full travel	Incorrect adjustment of the position control lever	Adjust position control lever
	Control valve sensitivity adjustment not adjusted correctly	Adjust control valve sensitivity
Low lift capacity	Damaged control valve outer diameter O-rings	Replace O-rings as necessary
	Relief valve not adjusted correctly	Adjust relief valve to specification
	Worn lift cylinder piston seal	Replace damaged seal
Lift arms cycle up and down with load applied with engine running	Lift cylinder piston seal damaged	Replace piston seal
	Discharge valve not adjusted correctly	Adjust sensitivity of control valve
	Lift check valve not seating properly	Inspect lift check valve for contamination
	Safety valve not seating properly	Inspect safety valve for contamination
Lift arms leak down when engine is not running	Lift cylinder piston seal damaged	Replace piston seal
	Discharge valve not adjusted correctly	Adjust sensitivity of control valve
	Lift check valve not seating properly	Inspect lift check valve for contamination
	Safety valve not seating properly	Inspect safety valve for contamination
When lift arms are at maximum lift height, with the engine running, the lift arms cycle up and down	Position control lever maximum height position not adjusted correctly	Adjust position control lever maximum position setting

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Wiring harnesses - Electrical schematic sheet 14 - sheet 14

Farmall® 45A	WE
Farmall® 50A	



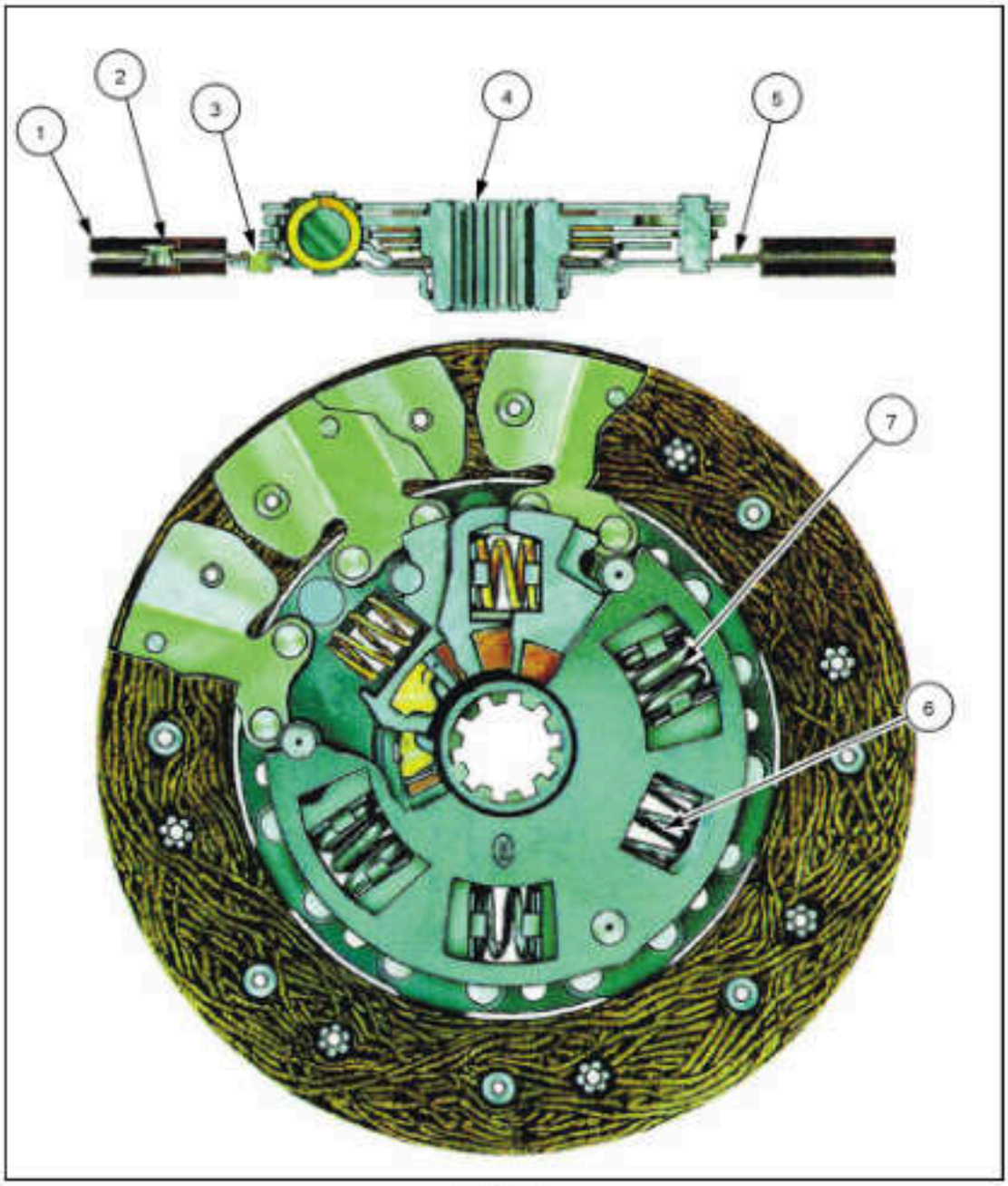
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Farmall 55A

Type Name	A007TA1777
Rating	Continuous
Battery Voltage	**12 V**
Nominal Output	**12 V**, **55 A**
Mass	**3.7 kg**
Speed in Use	**1,000 – 18,000 RPM**
Number of Magnetic Poles	12
Temperature Rise - Hot condition	At **5,000 RPM** with MAX. Output after **40 min**
Temperature Rise - Thermal Endurance	Abnormal points not to be pointed out during running at any speed and with MAX. output current
Over speed at MAX. Output	**22,000 RPM**, **0.5 min**
Ground Polarity	Negative ground
Regulator System	IC Regulator built in
Initial cut in Speed	**12 V**, **50 Ω** **1,400 RPM** MAX
Regulator Performance - Set Voltage (**20 °C**)	**14.7 V ± 0.3 V**
When key is OFF, there is not around current that through outside unite on L Terminal	
(Remarks)	
1. Ambient temperature not to exceed **80 °C** during continuous running of Alternator. **90 °C** to be allowable for short interval running as not exceeding **10 min**	
2. Rotor Unbalance	**10 g** cm MAX
3. Inertia of Rotor	**10.2 Kg/cm²**
4. Rotation of Pulley	Clockwise (View pulley)
5. Inspection Specification	Separately Agreed
6. Mounting end of bracket rear is acceptable not to be machined	
Initial Tension of Belt	Type A **470 N** MAX
Tolerance unless otherwise specified	Dimension : ± 1 Angle : ± **1°**

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Clutch - Sectional view Clutch plate



1. Clutch facing
2. Facing rivet
3. Segment rivet
4. Hub
5. Segment
6. Idle damper spring
7. Main damper spring

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