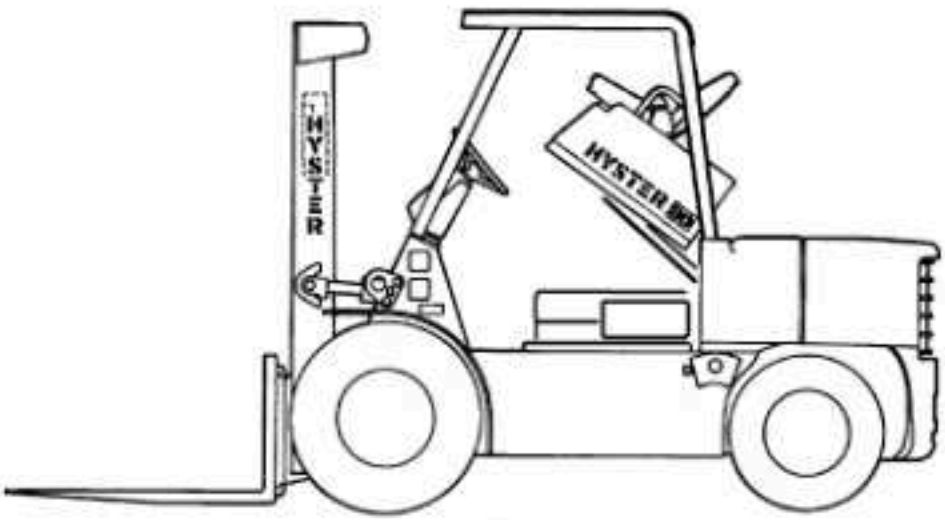
SERVICE MANUAL

B219 (E30-35-40HSD2)



FORM 599886 Rev. 12/04

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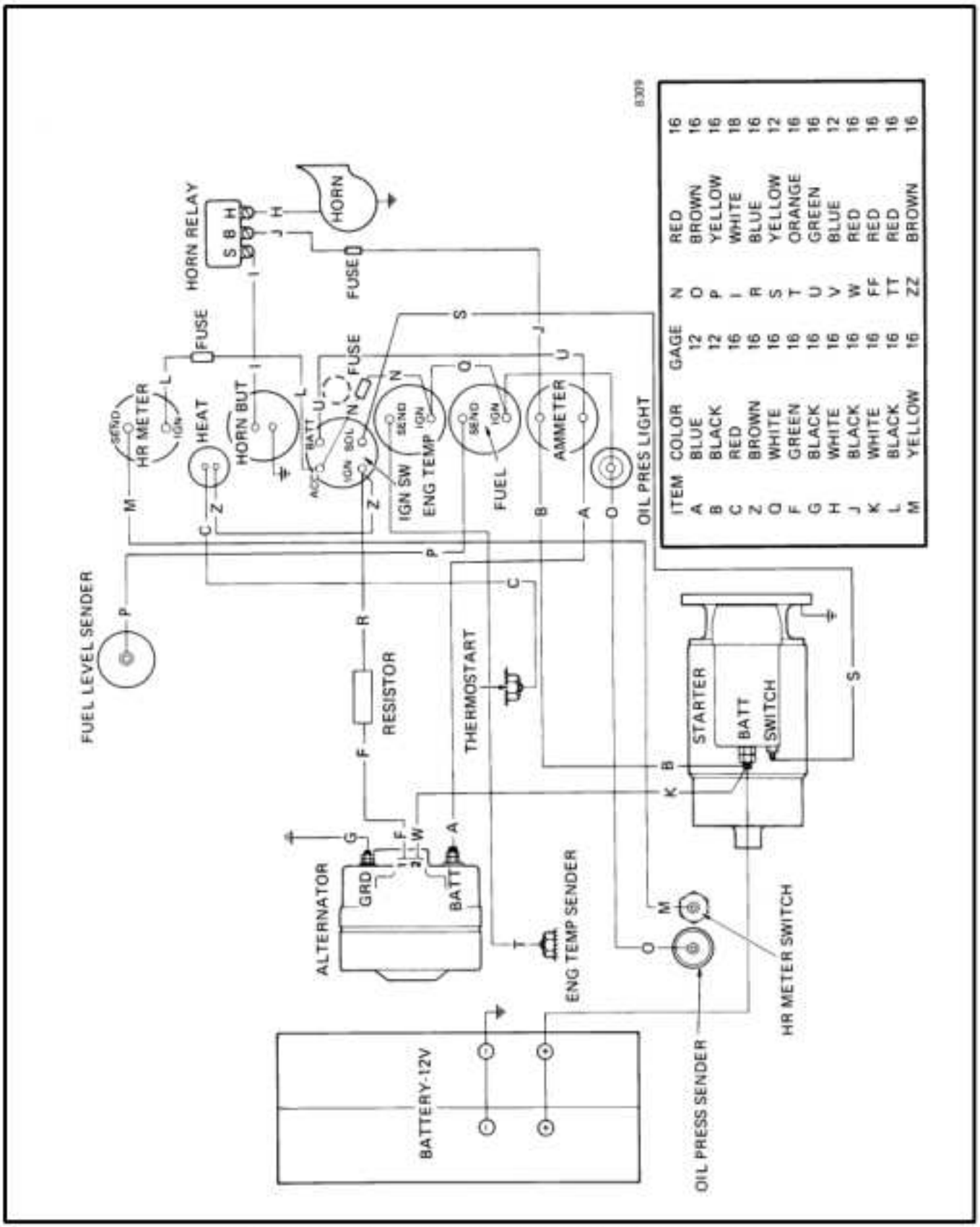


FIGURE 23. ELECTRICAL SCHEMATIC P60–80A DIESEL

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Troubleshooting

PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
Oil leaks at the end of the spools.	Spool seals are damaged.	Replace spool seals.
	Spool is damaged.	Replace valve section.
	Valve body is damaged.	Replace valve section.
Spool will not move.	Linkage is damaged.	Repair or adjust linkage.
	Dirt between spool and the bore.	Clean valve.
	Spool is bent or damaged.	Replace valve section.
Spool will not return to neutral.	Linkage is damaged.	Repair and adjust linkage.
	Return spring is damaged.	Replace spring.
	Dirt between spool and the bore.	Clean valve.
	Spool is bent or damaged.	Replace valve section.
Slow or no movement of cylinders.	Linkage is damaged.	Repair and adjust linkage.
	Pressure relief valve is damaged.	Replace relief valve.
	Large leaks between spool and bore.	Replace valve section.
	Spool not fully extended or retracted.	Adjust linkage to spool.
	Hydraulic pump is damaged.	Repair or replace hydraulic pump.
	Air is in the hydraulic system.	Remove air from hydraulic system.
	Restriction in the hydraulic lines.	Remove any restriction or replace hydraulic lines.
	Load is greater than capacity.	Reduce load.
	Cylinder seals are damaged.	Replace seals.

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Table 2. Cylinder Retainer Torque Specifications and Weight Guide (Continued)

Rod Diameter		Typical Outer Retainer Torque Values		Lifting Mechanism
mm	in.	N•m	lbf ft	
Two-Stage Cylinders for Lift Trucks with Less than 5000 kg (10,000 lb) Capacity				
82.6	3.25	373-509	325-375	Use crane and slings with at least 500 kg (1000 lb) capacity to lift the cylinder.
95.3	3.75	271-305	200-225	
101.6	4.00	271-339	200-250	
114.3	4.50	339-407	250-300	
122.0	5.00	407-475	300-350	
Inner retainer torque value is 122 N•m (90 lbf ft).				

Troubleshooting

PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
No movement of lift cylinders or tilt cylinders.	Pilot line(s) to control valve are disconnected or leaking.	Tighten or connect fittings.
	No oil or not enough oil in the hydraulic tank.	Fill tank. Check for leaks.
	Relief valve(s) not set correctly.	Adjust or install new relief valve.
	Hydraulic pump does not operate or has damage.	Repair or install new pump.
	Remote control valve does not operate.	Check and repair valve.
Slow movement of lift or tilt cylinders.	No oil or not enough oil to lift or tilt cylinders.	Fill tank. Check for leaks.
	Cylinders have internal or external leaks.	Repair leaks. Install new parts.
	Relief valve is not set correctly.	Adjust or install new relief valve.
	There is a restriction in a hydraulic line.	Remove restriction. Install new parts.
	Load is more than capacity.	Reduce load.

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