CAT® Lift Trucks

Service Manual

MC/FC

Chassis, Mast & Options

EP16KT	ETB4A-00011-up
EP18KT	ETB5A-00011-up
EP20KT	ETB5A-50001-up

For use with EP16KT-EP20KT
Controller Service Manual.

99719-66100

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GENERAL INFORMATION

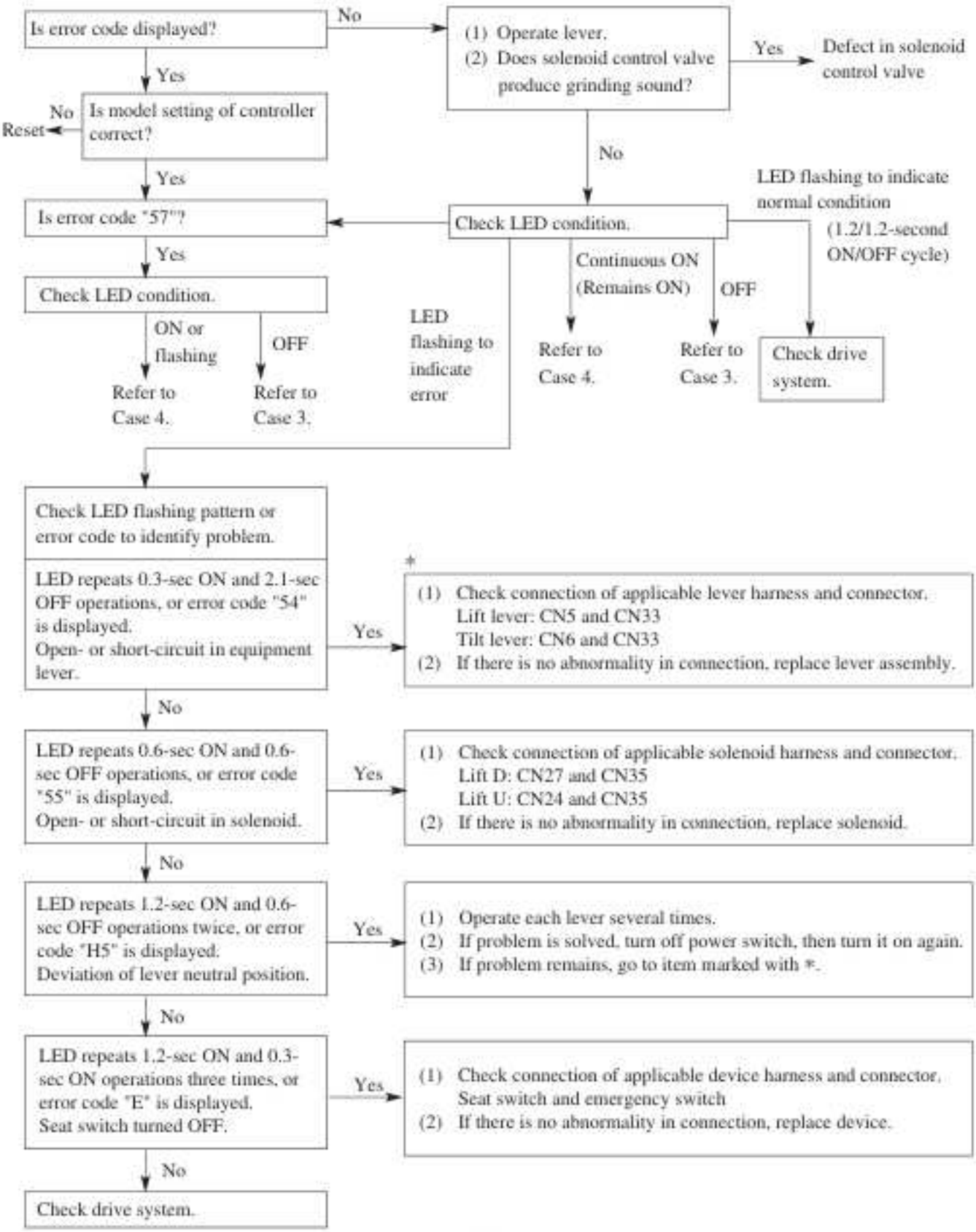
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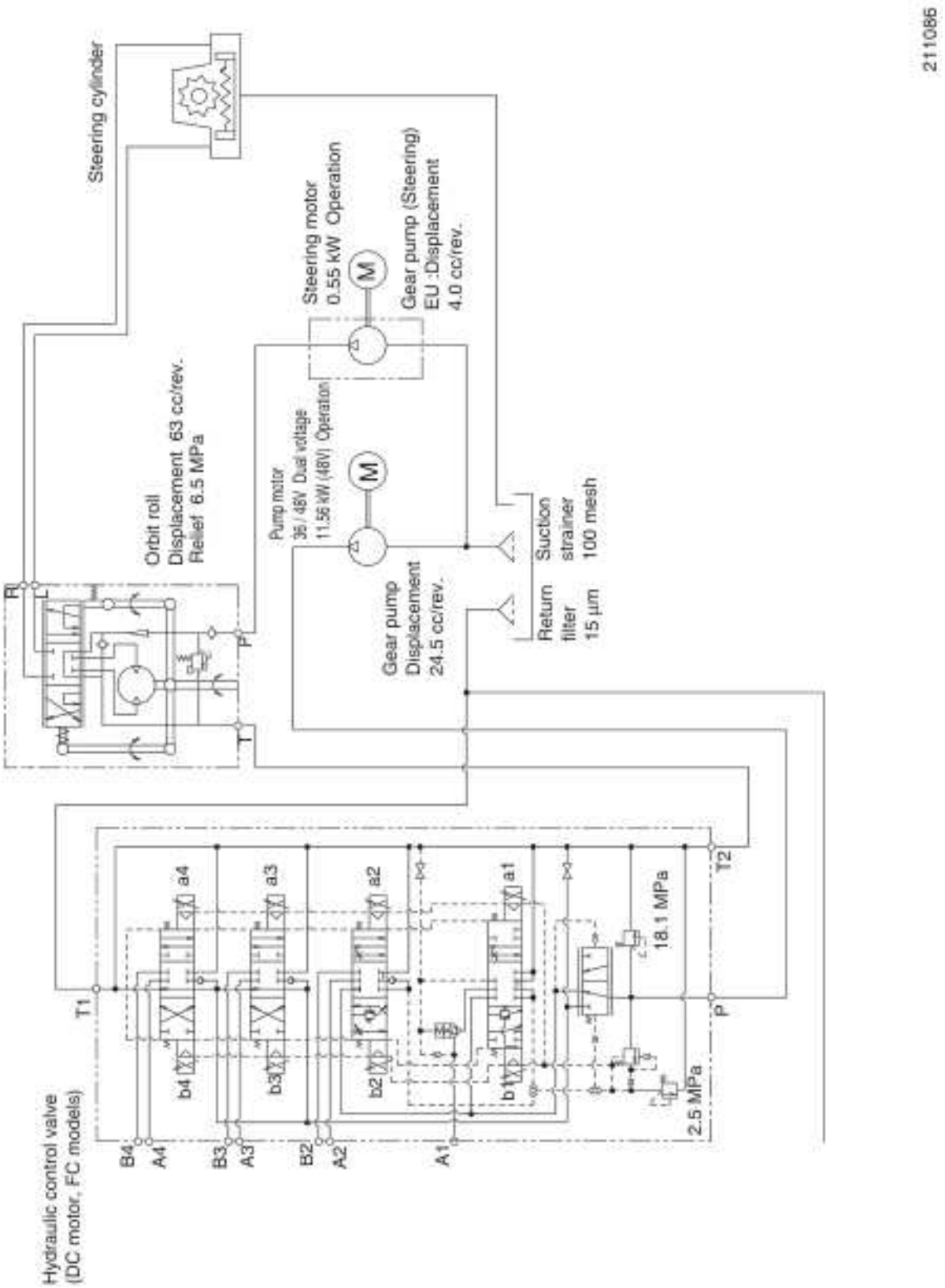
(2) Case 1: No motion of hydraulic cylinders.

Troubleshooting Procedure



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Hydraulic Circuit Diagram



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Service Data

A : Standard value

Unit: mm (in.)

Item \ Truck Model				1 ton class	2 ton class
Simplex mast	Simplex mast Lift speed (rated load) mm/sec (in./sec)		A	EP16KT, EP16NT: 400 (15.7) EP18KT, EP18NT: 390 (15.4)	EP20KT, EP20NT 380 (15.0)
	Simplex mast Lowering speed (rated load) mm/sec (in./sec)		A	520 (20.5)	
	Forward tilt angle		A	6°	
	Backward tilt angle		A	7°	
	Lift cylinder rod drift (rated load) Oil temperature 45 °C (113 °F) mm (in.)/15 min.		A	50 (1.97), max	
	Tilt cylinder rod drift (forward) (rated load) Oil temperature 45 °C (113 °F) mm (in.)/15 min.		A	22 (0.87), max	22 (0.87), max
Main relief valve setting kPa (kgf/cm²) [psi]			A	18142^{+490}_{0} (185^{+5}_{0}) [2631^{+71}_{0}]	
Power steering relief valve setting kPa (kgf/cm²) [psi]			A	6500 (66.3) [943]	
Hydraulic pump	Capacity cc (cu. in.)/rev		A	24.5 (1.49)	
	Mounting bolts N·m (kgf·m) [lbf·ft]		A	33.3 (3.39) [24.6]	
Control valve	Tightening torque N·m (kgf·m) [lbf·ft]	Tie bolts (1/2 in.)	A	46 (4.7) [34]	
		Tie bolts (3/8 in.)	A	19 (1.9) [14]	

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