A TEREX COMPANY

Service Manual

	Serial Number Range
GR™-12	from GR10-20000 to GR16-40865
GR™-15	from GR16P-40866 to GR16P-44699
GR™-20	from GRP-44700 from GRR-101
QS™-12R	from QS11-1000 to QS16-2429
QS™-15R	from QS16P-2430 to QS16P-4499
QS™-20R	from QSP-4500
QS™-12W	
QS™-15W	
QS™-20W	

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Hydraulic Component Specifications

Function pump	
Type	Gear
Displacement per revolution	0.244 cu in 4 cc
Flow rate @ 2500 psi / 172 bar	4 gpm 15 L/min
Hydraulic tank return filter	10 micron with 25 psi / 1.7 bar bypass

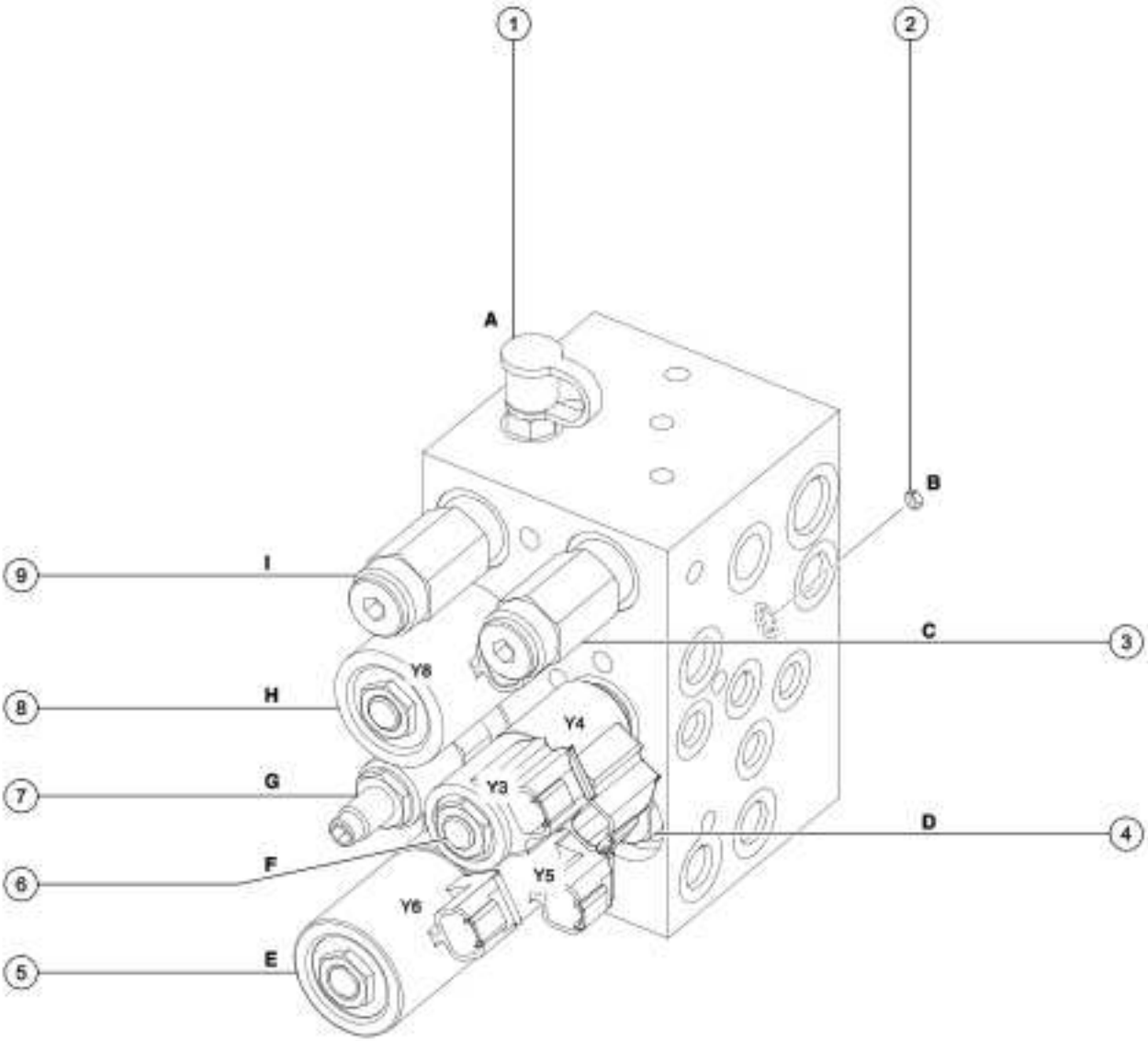
Function manifold	
System relief valve pressure, maximum	3500 psi 241 bar
Lift relief valve pressure	1800 to 3500 psi 124 to 241 bar
Steer relief valve pressure	1500 psi 103 bar

Manifold Component Specifications

Plug torque	
SAE No. 2	50 in-lbs / 6 Nm
SAE No. 4	13 ft-lbs / 18 Nm
SAE No. 6	18 ft-lbs / 24 Nm
SAE No. 8	50 ft-lbs / 68 Nm
SAE No. 10	55 ft-lbs / 75 Nm
SAE No. 12	75 ft-lbs / 102 Nm

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Function Manifold



Note: 'alpha' callouts refer to corresponding notes on the hydraulic schematic.

Note: 'alpha-numeric' callouts refer to corresponding notes on the electrical schematic.

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Diagnostics

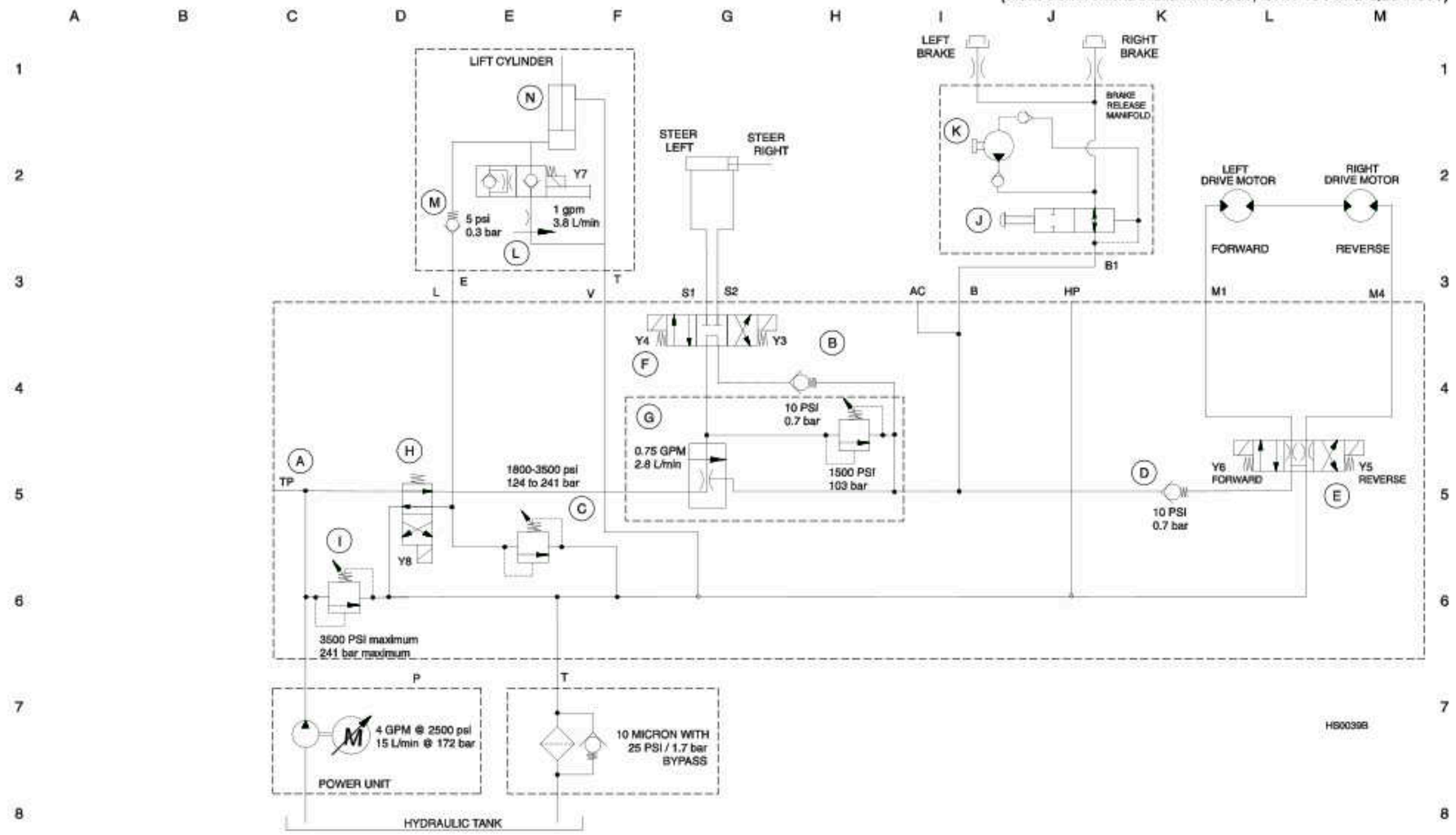
Charger Error Codes

Error Code	Description	Condition	Possible Causes
E-0-2-9	CAN Bus error	CAN Bus network error.	Check CAN Bus connections. CAN modules not functioning correctly. Termination resistance is ~60 ohms.
E-0-3-0	COMM battery module error	CAN Bus battery module error.	CAN Buss battery module not functioning correctly.
E-0-3-1	Vref for ADC measurements triggered alarm	Internal charger error.	Disconnect AC input and battery pack for 30 seconds. Contact Genie Product Support.
E-0-3-2	CAN Bus heartbeat error	CAN Bus heartbeat error.	CAN Bus devices not functioning correctly.
E-0-3-6	Battery temperature sensor charge profile	Battery temperature sensor is required by charger profile but is not installed.	Check battery temperature sensor connections. Check charger profile and confirm battery temperature sensor is installed.
E-0-3-8	CAN Open Error	CAN Open reprogramming failed.	Download CAN Open software. Reprogram charger using USB Flash Drive.

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Hydraulic Schematic, GR • QSR • QSW,

(from serial numbers GR12-24139 to GR16P-46499 and QS12-1064 to QS16P-4499)
(from serial numbers GRP-46500, GRR-101 and QSP-4500)



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