

Genie®

Service Manual

Refer to inside cover for serial number information

Part No. 106726
Rev C
August 2011

Z™-45/25
Z™-45/25J

DC Power

(from serial number 9996 to 23235)

MidWestTech | Terex Genie Z-45, Z-25, Z-25J DC Power Articulated Boom Lift Service Manual | Publication 106726

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Hydraulic Hose and Fitting Torque Specifications

Your machine is equipped with Parker Seal-Lok® fittings and hose ends. Genie specifications require that fittings and hose ends be torqued to specification when they are removed and installed or when new hoses or fittings are installed.

SAE O-ring Boss Port
(tube fitting - installed into Aluminum)

SAE Dash size	Torque
-4	11 ft-lbs / 14.9 Nm
-6	23 ft-lbs / 31.2 Nm
-8	40 ft-lbs / 54.2 Nm
-10	69 ft-lbs / 93.6 Nm
-12	93 ft-lbs / 126.1 Nm
-16	139 ft-lbs / 188.5 Nm
-20	172 ft-lbs / 233.2 Nm
-24	208 ft-lbs / 282 Nm

Seal-Lok® fittings

1 Replace the O-ring. The O-ring must be replaced anytime the seal has been broken. The O-ring cannot be re-used if the fitting or hose end has been tightened beyond finger tight.

Note: The O-rings used in the Parker Seal Lok® fittings and hose ends are custom-size O-rings. They are not standard SAE size O-rings. They are available in the O-ring field service kit (Genie part number 49612).

2 Lubricate the O-ring before installation.

3 Be sure that the face seal O-ring is seated and retained properly.

4 Position the tube and nut squarely on the face seal end of the fitting and tighten the nut finger tight.

5 Tighten the nut or fitting to the appropriate torque per given size as shown in the table.

6 Operate all machine functions and inspect the hoses and fittings and related components to confirm that there are no leaks.

SAE O-ring Boss Port
(tube fitting - installed into Steel)

SAE Dash size	Torque
-4	16 ft-lbs / 21.7 Nm
-6	35 ft-lbs / 47.5 Nm
-8	60 ft-lbs / 81.3 Nm
-10	105 ft-lbs / 142.4 Nm
-12	140 ft-lbs / 190 Nm
-16	210 ft-lbs / 284.7 Nm
-20	260 ft-lbs / 352.5 Nm
-24	315 ft-lbs / 427.1 Nm

Seal-Lok® Fittings
(hose end)

SAE Dash size	Torque
-4	18 ft-lbs / 24.4 Nm
-6	27 ft-lbs / 36.6 Nm
-8	40 ft-lbs / 54.2 Nm
-10	63 ft-lbs / 85.4 Nm
-12	90 ft-lbs / 122 Nm
-16	120 ft-lbs / 162.7 Nm
-20	140 ft-lbs / 190 Nm
-24	165 ft-lbs / 223.7 Nm

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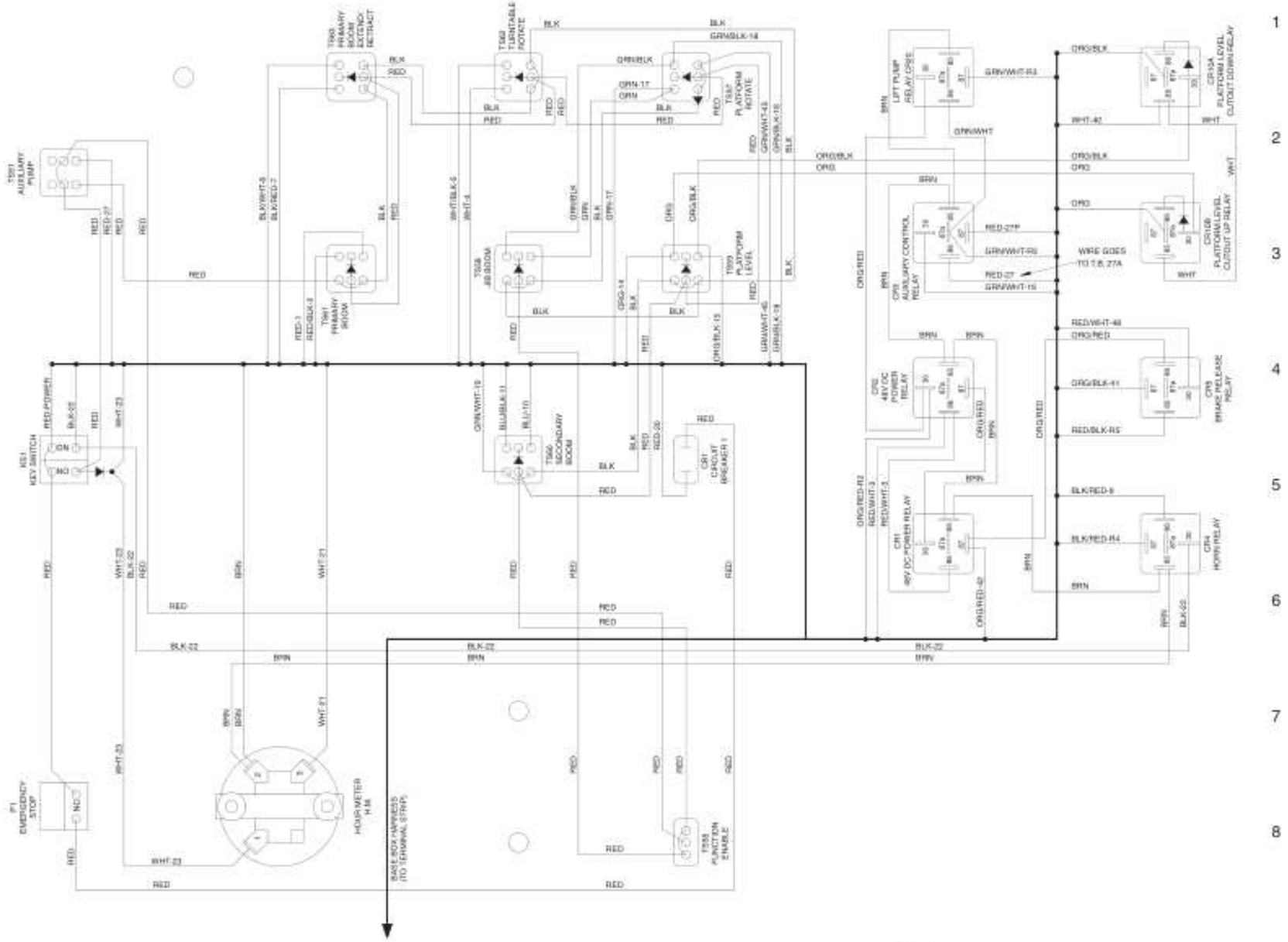
REV B FAULT CODE CHART

Fault Code	Code Scanner Display	Condition	Possible Causes	Solution
34	MISSING CONTACTOR	Machine will not drive.	Motor controller does not detect the main contactor PR1 or brake release relay CR5.	Consult Genie Industries Service Department.
	MAIN CONT DNC	Machine will not drive.	Main contactor PR1 or brake release relay CR5 did not close OR open in org/red wire to PR1 and/or CR5 OR main contactor and/or brake release relay is defective.	Consult Genie Industries Service Department.
41	LOW BATTERY VOLTAGE	Machine will not drive.	Battery supply voltage to motor controller less than 32V DC.	Completely charge batteries OR check battery cable condition OR check for corrosion or loose connections at battery terminals and motor controller.
42	OVERVOLTAGE	Machine will not drive.	Battery supply voltage to motor controller more than 55V DC OR machine is being operated with the battery charger plugged in.	Be sure the battery charger is disconnected OR check for loose battery cables or poor connections
43	THERMAL CUTBACK	Machine will not drive.	Machine being operated outside of temperature range of -13°F to 185°F / -25°C to 85°C OR machine being driven under excessive load OR motor controller is not being cooled sufficiently.	Operate machine within specified temperature limits OR check for debris around motor controller preventing proper cooling of the controller OR check for mechanical restrictions causing excessive load on the machine.

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REV A

Ground Control Box Switch Panel Wiring Diagram, Z-45/25J
(from serial number 16840 to 17974)

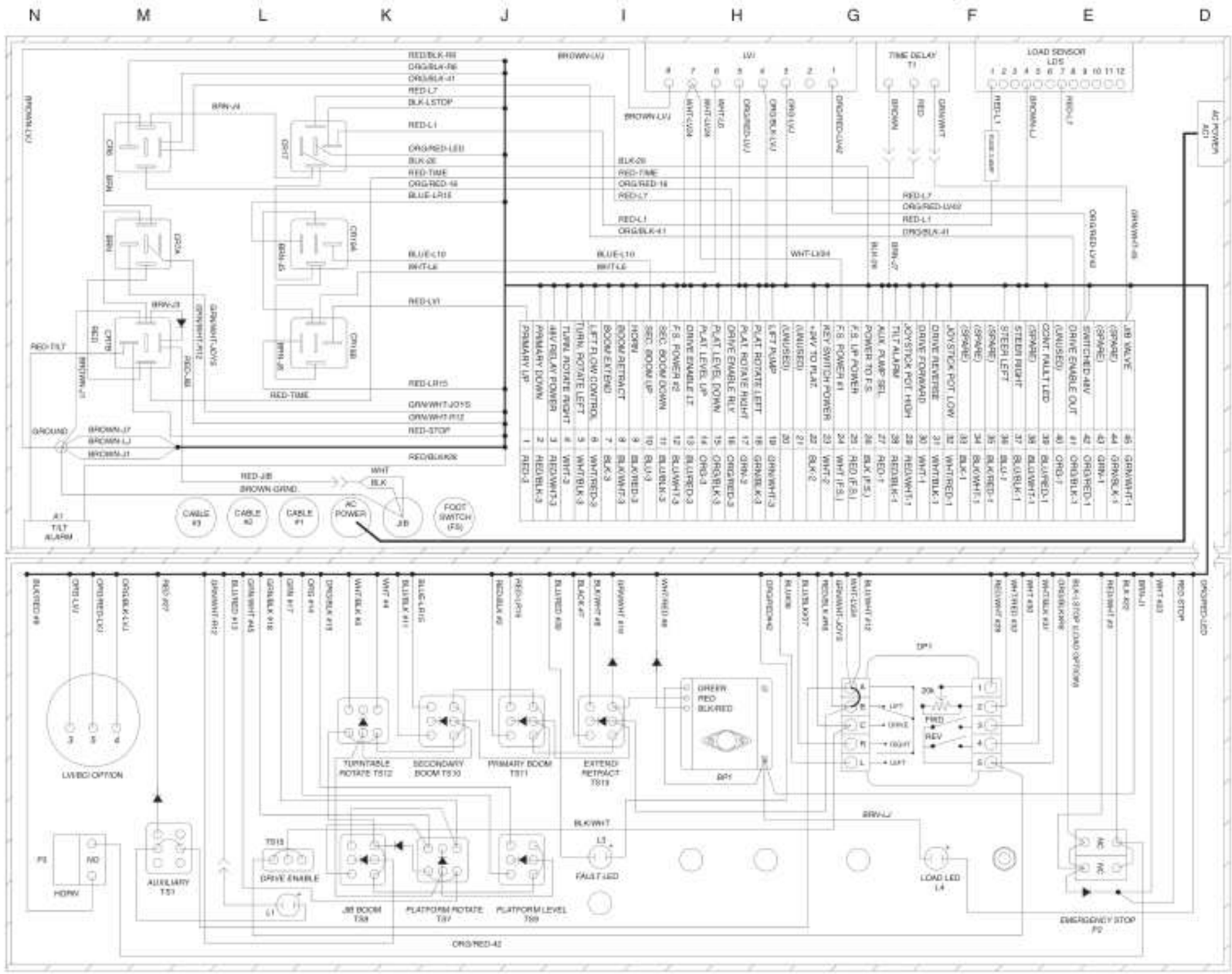


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REV A

Platform Control Box Wiring Diagram, Z-45/25J

(with Platform Load Sense and LVI/BCI Option) (before serial number 13361)


N M L K J I H G F E D C B A
1 2 3 4 5 6 7 8
LVI
TIME DELAY T1
LOAD SENSOR LDS
AC POWER AC1
JIB VALVE
SWITCHED 48V
DRIVE ENABLE OUT
STEER LEFT
STEER RIGHT
CONT. FAULT LED
JOYSTICK POT. LOW
DRIVE REVERSE
DRIVE FORWARD
JOYSTICK POT. HIGH
TILT ALARM
AUX. PUMP SEL.
POWER TO F.S.
F.S. LIFT POWER
F.S. POWER #1
KEY SWITCH POWER
+24V TO PLAT.
LIFT PUMP
PLAT. ROTATE LEFT
PLAT. ROTATE RIGHT
DRIVE ENABLE RLY.
PLAT. LEVEL DOWN
PLAT. LEVEL UP
DRIVE ENABLE LT.
F.S. POWER #2
SEC. BOOM DOWN
SEC. BOOM UP
LEFT FLOW CONTROL
BOOM EXTEND
BOOM RETRACT
HORN
TURN, ROTATE LEFT
TURN, ROTATE RIGHT
48V RELAY POWER
PRIMARY DOWN
PRIMARY UP
CR6
CR7A
CR7B
CR17
CR19A
CR19B
DP1
TILT ALARM
AC POWER
JIB
CABLE #3
CABLE #2
CABLE #1
FOOT SWITCH (FS)
LVI/BCI OPTION
HORN
AUXILIARY TS1
DRIVE ENABLE
JIB BOOM TS9
PLATFORM ROTATE TS7
PLATFORM LEVEL TS8
TURNTABLE ROTATE TS12
SECONDARY BOOM TS10
PRIMARY BOOM TS11
EXTEND RETRACT TS13
FAULT LED
LOAD LED L4
EMERGENCY STOP FS
BP1
GREEN
RED
BLK/RED
FWD
REV
LIFT
DRIVE
RIGHT
LEFT
30k
ORG/RED-42
BRN-J7
BLK/WHT
L3
RED-STOP
BLK-1 STOP / LOAD OPTION
GROUND
BROWN-J7
BROWN-J1
RED-JIB
BROWN-GRND
WHT
BLK
RED-TILT
RED-TIME
GRN/WHT-JOYS
GRN/WHT-P12
BRN-J4
BRN-J3
BRN-J5
BRN-J2
BRN-J6
BRN-J7
BROWN-LVI
BROWN-LVI
BROWN-LVI