

Genie®

Service Manual

Refer to inside cover for additional serial number information

Part No. 106488
Rev B
June 2005

Z™-45/25
Z™-45/25J

Bi-Energy Power

(from serial number 9996 to 23235)

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SPECIFICATIONS REV B

Manifold Component Specifications

Plug torque	
SAE No. 2	36 in-lbs / 4 Nm
SAE No. 4	10 ft-lbs / 13 Nm
SAE No. 6	14 ft-lbs / 19 Nm
SAE No. 8	38 ft-lbs / 51 Nm
SAE No. 10	41 ft-lbs / 55 Nm
SAE No. 12	56 ft-lbs / 76 Nm

Valve Coil Resistance Specification

Description	Specification
Solenoid valve, 3 position 4 way, 20V DC (schematic items E, H, J, K, L, M, CC, DD, EE, FF, HH, II, BB, BC, BD, BE, BF, BG, CB, CD, CE, CF and CH)	25 to 29 Ω
Solenoid valve, 2 position 3 way, 20V DC (schematic items N, P, AA, BB, BA, BJ, CA, CK and CR)	25 to 29 Ω
Solenoid valve, 2 position 3 way, 20V DC (schematic item CR)	17 to 21 Ω
Solenoid valve, 2 position 3 way, 20V DC (schematic item DC)	25 to 28 Ω
Solenoid valve, 2 position 2 way, 20V DC (schematic items DA and DB)	22 to 26 Ω
Proportional solenoid valve, 24V DC (schematic items G, JJ, BH and CI)	17 to 21 Ω
Solenoid valve, N.C. poppet, 20V DC (schematic items F, LL and BI)	25 to 28 Ω
Solenoid valve, N.O. poppet, 20V DC (schematic items B, VV and BT)	25 to 28 Ω

Machine Torque Specifications

Platform rotator	
1 -8 center bolt (grade 2)	200 ft-lbs 271 Nm
1 -8 center bolt (grade 8)	480 ft-lbs 651 Nm
3/8 -16 bolts, GR 8	44 ft-lbs 60 Nm

Turntable rotate assembly	
Rotate bearing mounting bolts, lubricated	180 ft-lbs 244 Nm
Drive motor/brake mounting bolts, dry	110 ft-lbs 149 Nm
Drive motor/brake mounting bolts, lubricated	80 ft-lbs 108 Nm

Drive motor and hubs	
Drive hub mounting bolts, lubricated	180 ft-lbs 244 Nm
Drive motor mounting bolts, lubricated	55 ft-lbs 75 Nm

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FAULT CODES REV A

A DANGER Tip-over hazard. When adjusting the raised drive speed settings, the maximum raised drive speed must not exceed 0.6 mph / 1Km/h or 40 feet/45 seconds / 12.2 meters / 45 seconds. If the machine is allowed to drive faster than specification, the machine could become unstable and will tip over.

NOTICE Additional troubleshooting of the fault codes may by accomplished by using the hand-held pendant motor controller programmer (Genie part number 56303-S).

NOTICE When using the hand-held pendant motor controller programmer, the M1 MAX SPEED needs to be set to 33. If needed, adjust the M1 MAX SPEED higher or lower to achieve the maximum raised drive speed of 0.6 mph / 1Km/h or 40 feet / 45 seconds / 12.2 meters / 45 seconds.

The controller status indicator light will flash a fault code to aid in troubleshooting. This indicator light is mounted on the left side of the ground control box.

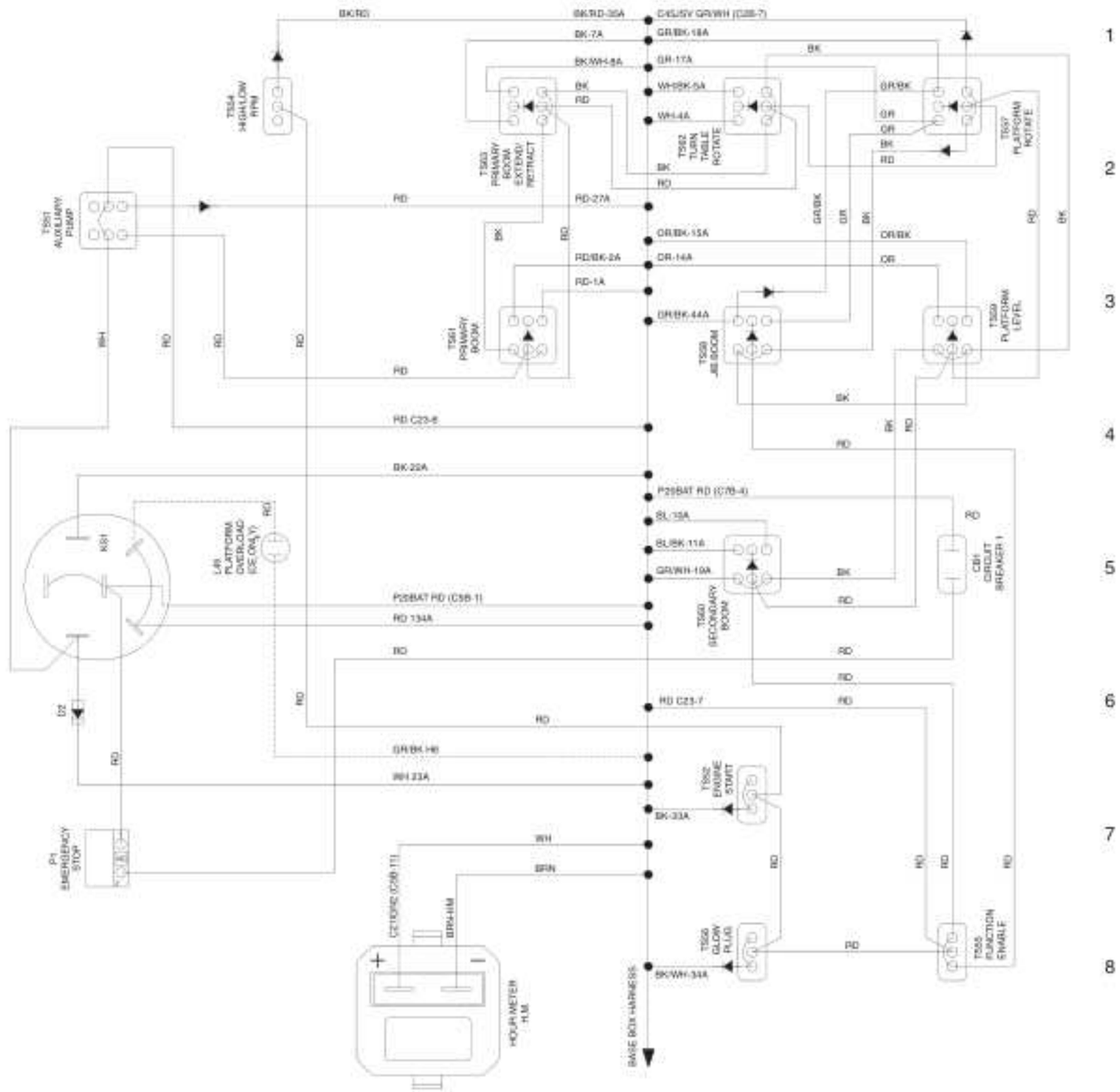
Fault codes are two digits. The controller status indicator light will blink the first digit of a two digit code, pause for 1 second, and then blink the second digit. There will be a 2 second pause between codes.

For example: the indicator light blinks 4 consecutive times, pauses for 1 second, and then blinks 1 time. That would indicate Fault Code 41.

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REV A

Ground Control Box Switch Panel Wiring Diagram, Z-45/25J, CE Models (from serial number 22051 to 23235)

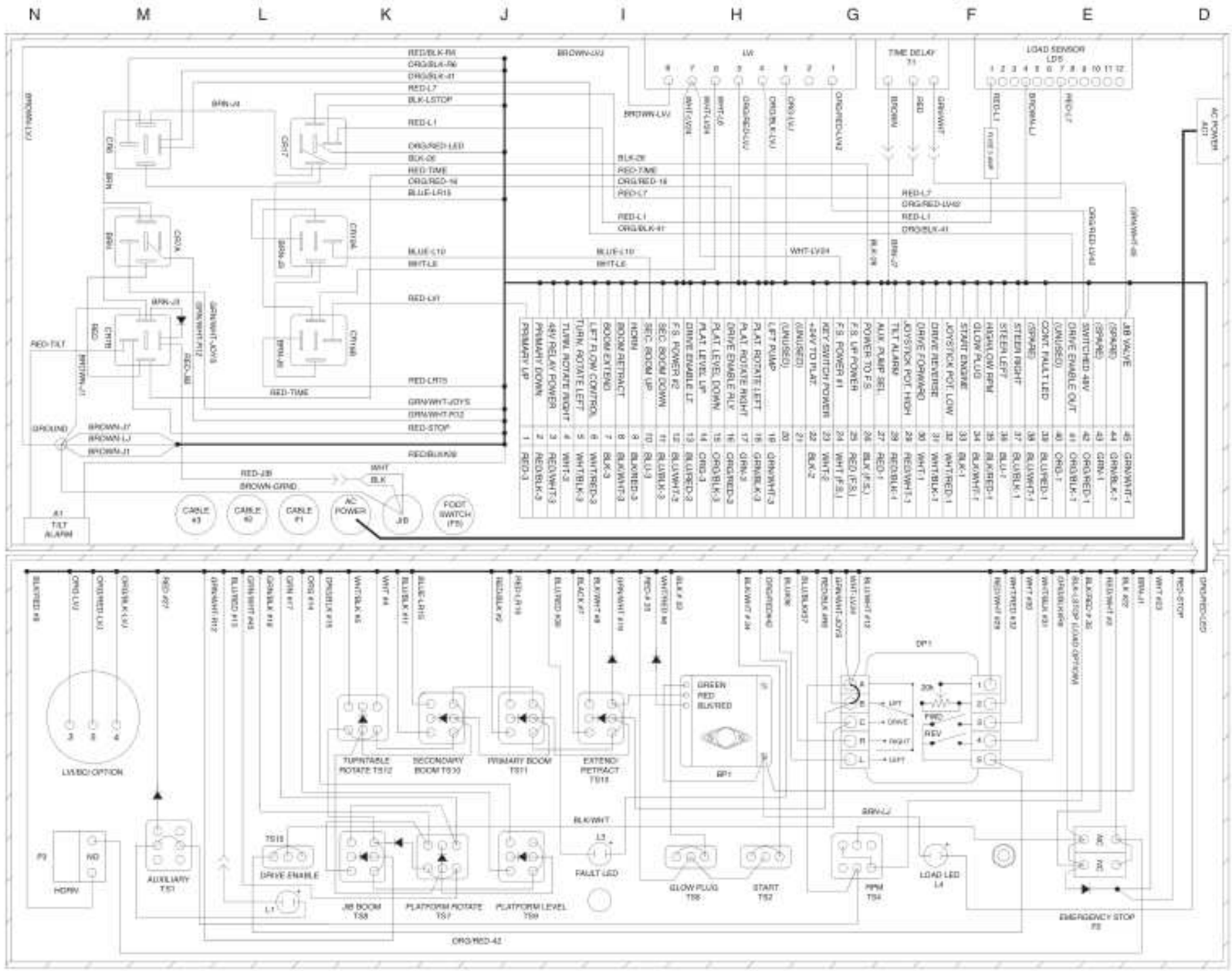


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REV A

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

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



NOTES:
1. ALL WIRES WITHOUT LABELS ARE EITHER RED OR BLACK JUMPER WIRES.
2. FOR LIFT/DRIVE SELECT OPTION, REMOVE JUMPER BETWEEN TERMINALS A & ON THE DRIVE JOYSTICK.

COMPONENT INDEX

A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB BOOM CUTOUT RELAY
CR7B	JIB VALVE RELAY
CR17	LOAD SENSOR RELAY (LOAD SENSOR OPTION ONLY)
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LVI OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LVI OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
L4	OVERLOAD LED (LOAD SENSOR OPTION)
LDS	LOAD SENSOR MODULE
LVI	LOW VOLTAGE INTERRUPT MODULE
LVI/BCI	BATTERY CHARGE INDICATOR FOR LVI OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB BOOM UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
TS12	TURNTABLE ROTATE SWITCH
TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

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