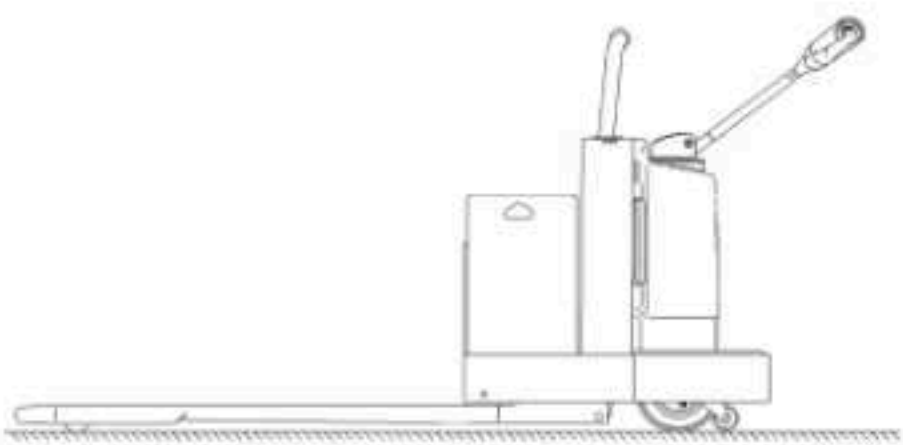
SERVICE MANUAL

B233 (B80ZAC)



FORM 1640810-B233 Rev. 03/14

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This section is for the following models:

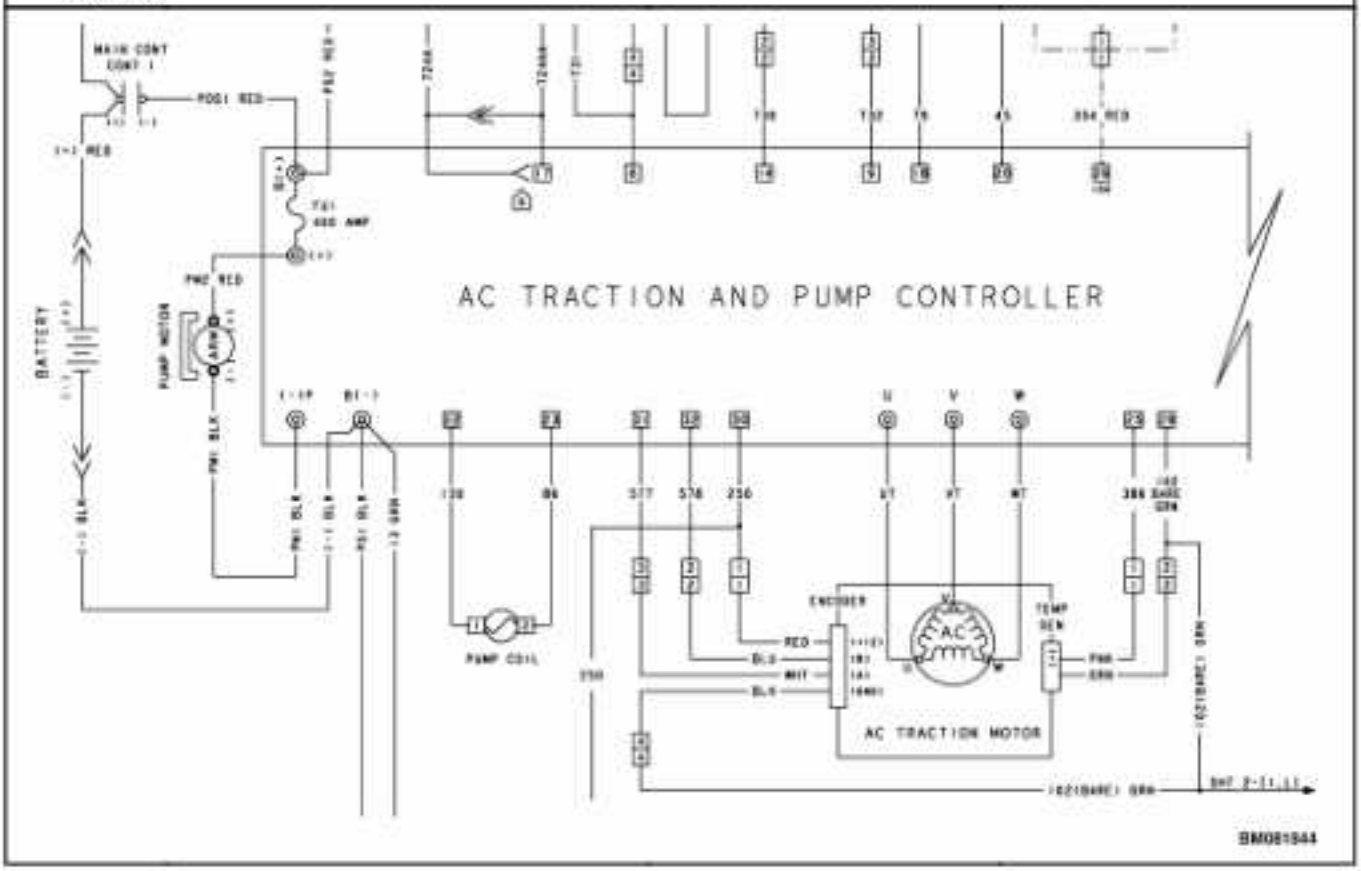
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STATUS CODE	DISPLAY MESSAGE	LED	CIRCUIT
33033 (cont)	33033 or Lighted Black Screen	Solid Red	Control Card
DESCRIPTION		SYMPTOM	
Controller cannot communicate with steer card, dash display, or power steering motor.		Traction and hydraulic systems will not operate.	

Probable Causes and Test Procedures

5. Check for continuity between pin #2 at the steer handle card connector and pin #27 at the controller connector.
6. Check for continuity between pin #4 at the steer handle card connector and pin #29 at the controller connector.
7. Check to have more than 12 volts at pin 1 of CRP115. On harness version 8801065 revision 4 and subsequent the power to tiller cards come from pin 30 (14V supply) of controller CPS05. For prior harness versions, power to the tiller card comes from pin 1 (24V) of the controller CPS05.
8. If on earlier version harnesses you find no power, check on encoder connector (CPS03) not to have the encoder signals switched with encoder power wire. Pin 1 on encoder connector goes to pin 30 of controller connector, Pin 4 on encoder connector goes to ground, Pin 2 from encoder connector (wire #578) to be connected to pin 32 (wire #577) on controller, and pin 3 from encoder to have continuity with pin 31 of controller connector.
9. Open tiller head, disconnect JP10 switch connector (4 pin Molex connector on control card where the lift/lower switches connect) from tiller card and measure resistance between pin 1 and 4. It should be greater than 300 ohms.
10. For further troubleshooting on control handle steer card, refer to Control Card Functional Test in this section.



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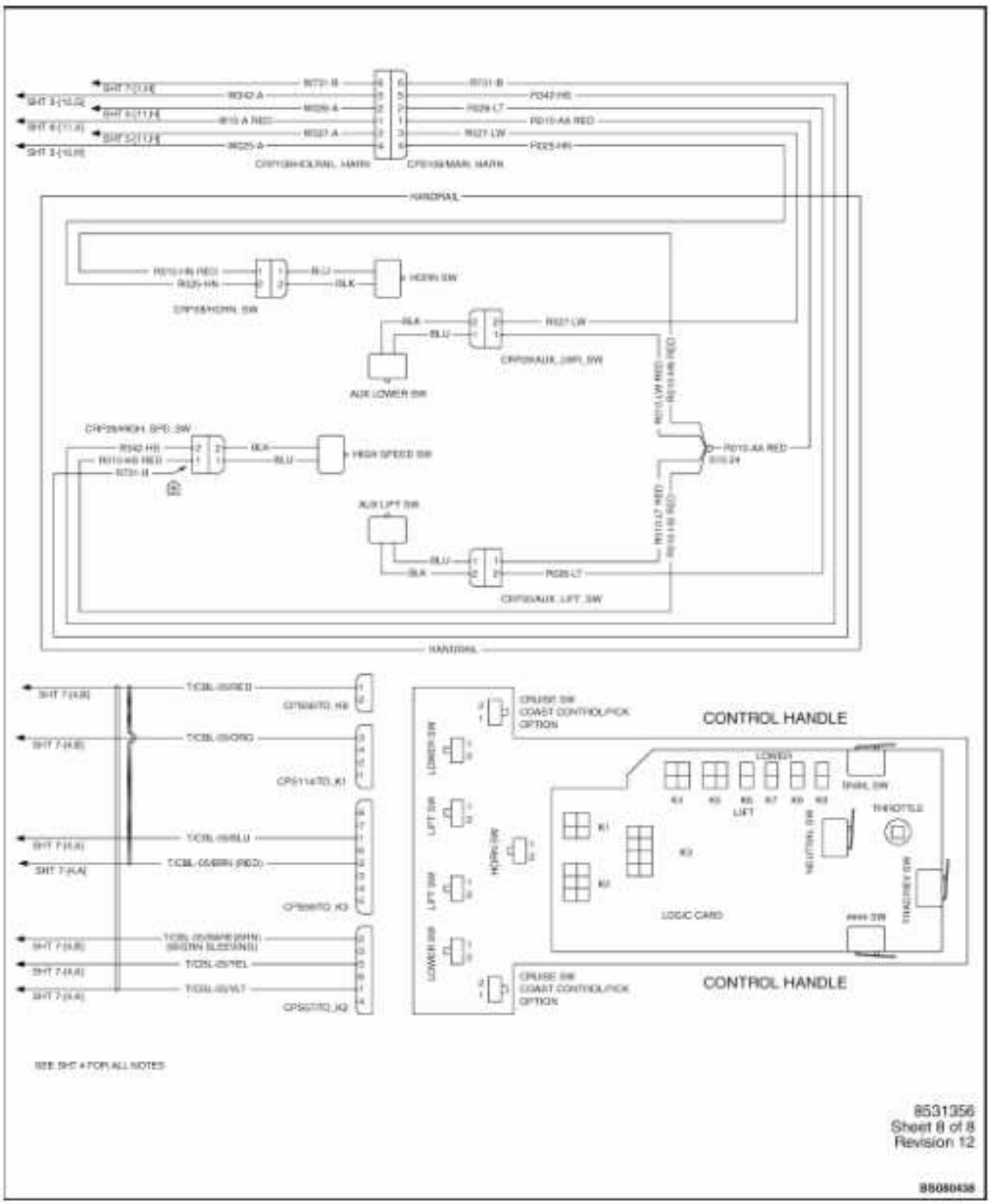


Figure 1. Schematic/Wiring Diagram (⇒ S/N B230N03907J, B233N02758J, A257N01500J, A262N01500J) (Sheet 8 of 8)

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Table 2. B80Z[AC]

Voltage	Ampere Hours (Max)	Kilowatt Hours (Max)	Compartment Length (X)	Compartment Width (Y) (Max)	Recommended Height (Max)	Weight (Max)
24	225	5.2	650.2 mm (25.6 in.)a	223.5 mm (8.8 in.)	591.8 mm (23.3 in.)	243.1 kg (536 lb)
24	255	6.0	650.2 mm (25.5 in.)a	218.4 mm (8.6 in.)	591.8 mm (23.3 in.)	267.6 kg (590 lb)
24	375	8.7	673.1 mm (26.5 in.)b	330.2 mm (13.0 in.)	591.8 mm (23.3 in.)	374.2 kg (825 lb)
24	425	9.9	673.1 mm (26.1 in.)b	325.1 mm (12.8 in.)	591.8 mm (23.3 in.)	392.3 kg (865 lb)
24	450	10.5	784.8 mm (30.9 in.)c	330.2 mm (13.0 in.)	591.8 mm (23.3 in.)	447.7 kg (987 lb)
24	510	11.9	784.8 mm (30.9 in.)c	330.2 mm (13.0 in.)	591.8 mm (23.3 in.)	469.5 kg (1035 lb)
24	600	14.0	784.8 mm (30.9 in.)c	330.2 mm (13.0 in.)	591.8 mm (26.2 in.)	517.1 kg (1140 lb)
24	750	17.6	784.3 mm (30.9 in.)c	330.2 mm (13.0 in.)	787.4 mm (31.0 in.)	657.7 kg (1450 lb)

Note: If Y is less than 327.6 mm (12.9 in.), a supplemental retainer is required.
a – Adjust both A and B retainers.
b – Adjust A and remove B retainer.
c – Remove both A and B retainer.

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