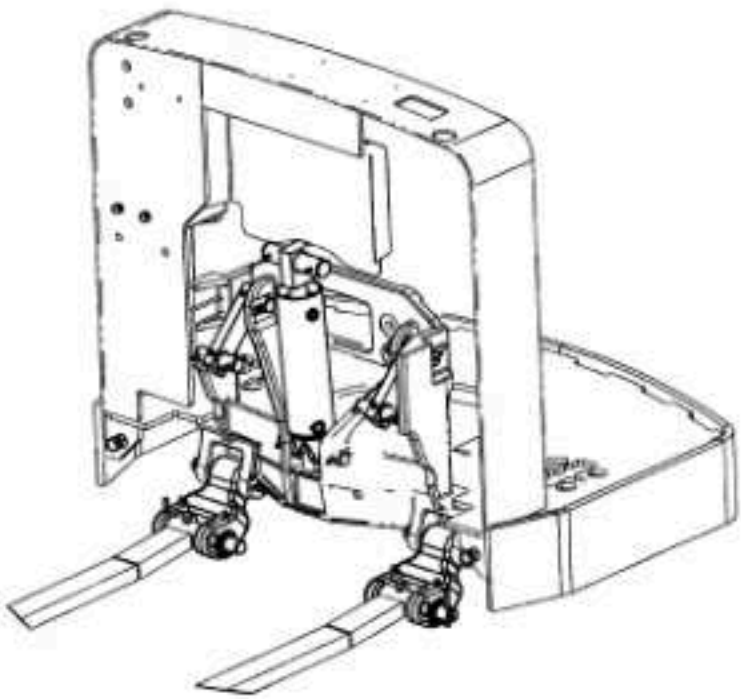
SERVICE MANUAL

A234 (W80Z)



FORM 1480465-A234 Rev. 07/14

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This section is for the following models:

All Electric Lift Trucks

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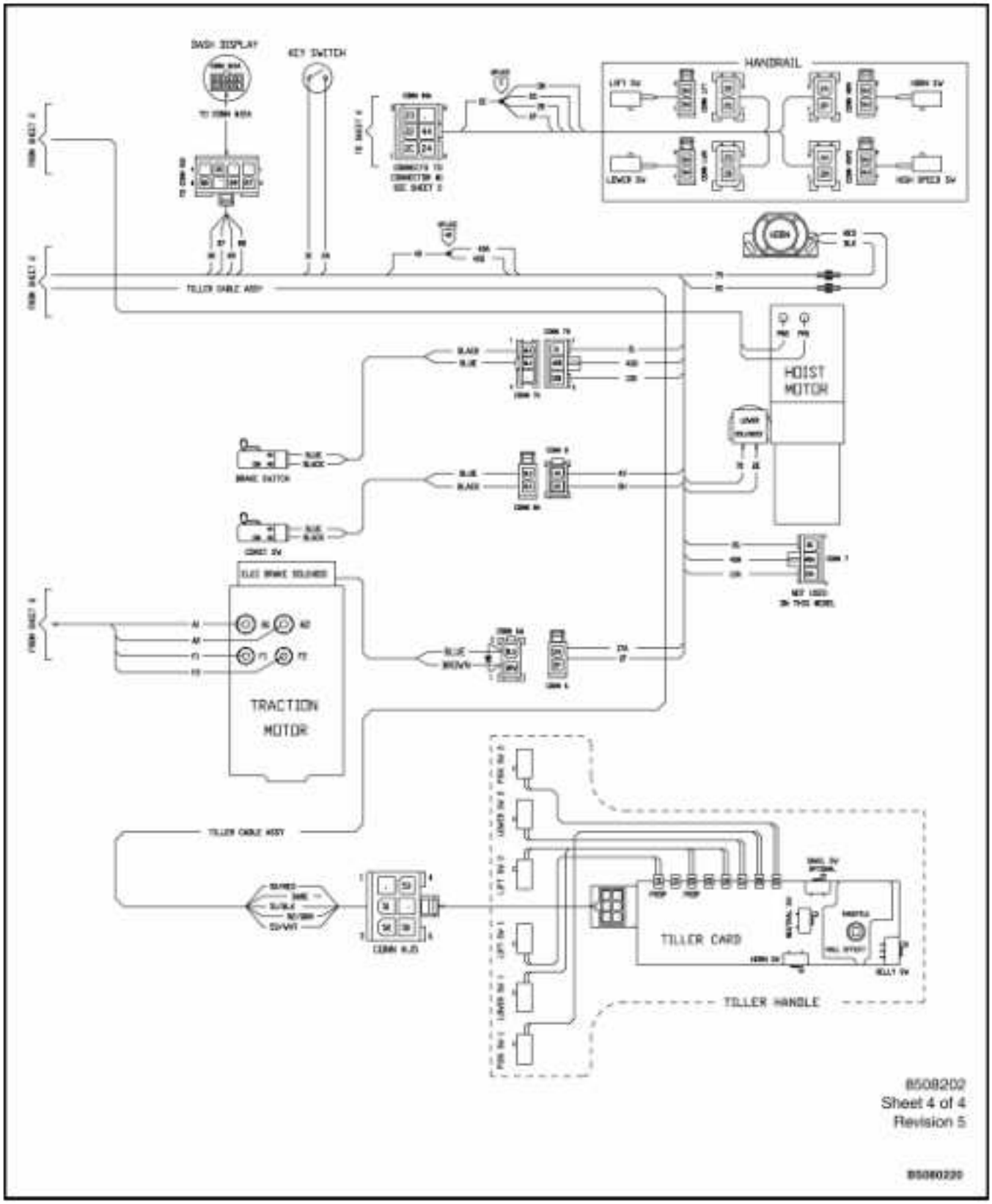


Figure 1. Schematic Diagram - 24 Volt (W60Z and W80Z) (Sheet 4 of 4)

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W80Z – 24 VOLT

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)

Note: If Y is less than 327.6 mm (12.9 in.), A supplemental spacer 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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General

This section covers the troubleshooting and repair procedures for the hydraulic components on B60Z, B80Z, B60Z, B80Z^{AC}, C60Z, C80Z, C60Z, C80Z^{AC}, W60Z, W65Z, and W80Z lift trucks.

It also includes the remove and install procedures for the solenoid coil used to activate the lowering valve.

For troubleshooting and repairs of the electrical components, see the sections **Electrical System** 2200 SRM 929, **Electrical System** 2200 SRM 1052, **Electrical System** 2200 SRM 1357, or **Electrical System** 2200 SRM 1287. See the sections **Curtis 1297 Transistor Motor Controller** 2200 SRM 928, **AC Motor Controller** 2200 SRM 1352, or **AC Motor Controller** 2200 SRM 1286 for Controller functions.

Description of Operation

The hydraulic system of the B60Z, B80Z, B60Z, B80Z^{AC}, C60Z, C80Z, C60Z, C80Z^{AC}, W60Z, W65Z, and W80Z lift trucks includes:

- Reservoir
- Pump
- Check Valve
- Relief Valve
- Lowering Valve
- Lift Cylinder
- Connecting Hoses and Tubes

WARNING

Always wear the proper protective equipment including eye protection and petroleum-resistant gloves when handling hydraulic oil. Thoroughly wash oil from exposed areas of skin as soon as possible.

Never check for leaks by putting hands on hydraulic lines or components under pressure. Hydraulic oil under pressure can be injected into the skin.

Completely lower forks to relieve hydraulic pressure before disassembling any part of the lift pump or disconnecting any hydraulic hoses.

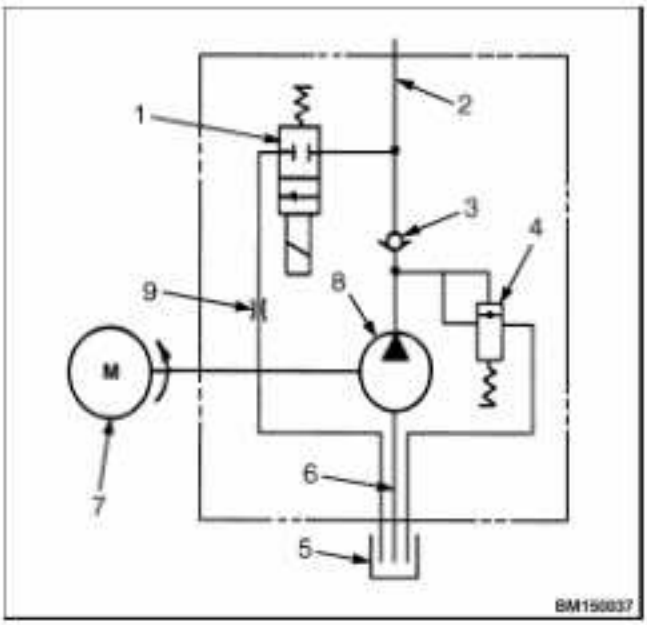
The hydraulic oil is hot at normal operating temperatures. Be careful when draining the oil.

CAUTION

Protect the hydraulic system from dirt and contaminants when servicing the hydraulic system.

Never operate the pump without the proper amount of oil in the hydraulic system. The operation of the hydraulic pump with low oil levels will damage the pump.

The reservoir contains the hydraulic fluid necessary for the operation of the system. It acts as a heat sink to provide cooling. As the hydraulic oil leaves the reservoir, it passes through a strainer in the reservoir. See Figure 1.



1. LOWERING SOLENOID VALVE
2. TO LIFT CYLINDER
3. CHECK VALVE
4. RELIEF VALVE
5. RESERVOIR
6. INLET LINE
7. PUMP MOTOR
8. LIFT PUMP
9. ORIFICE

Figure 1. Lift Pump and Motor Assembly Schematic

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