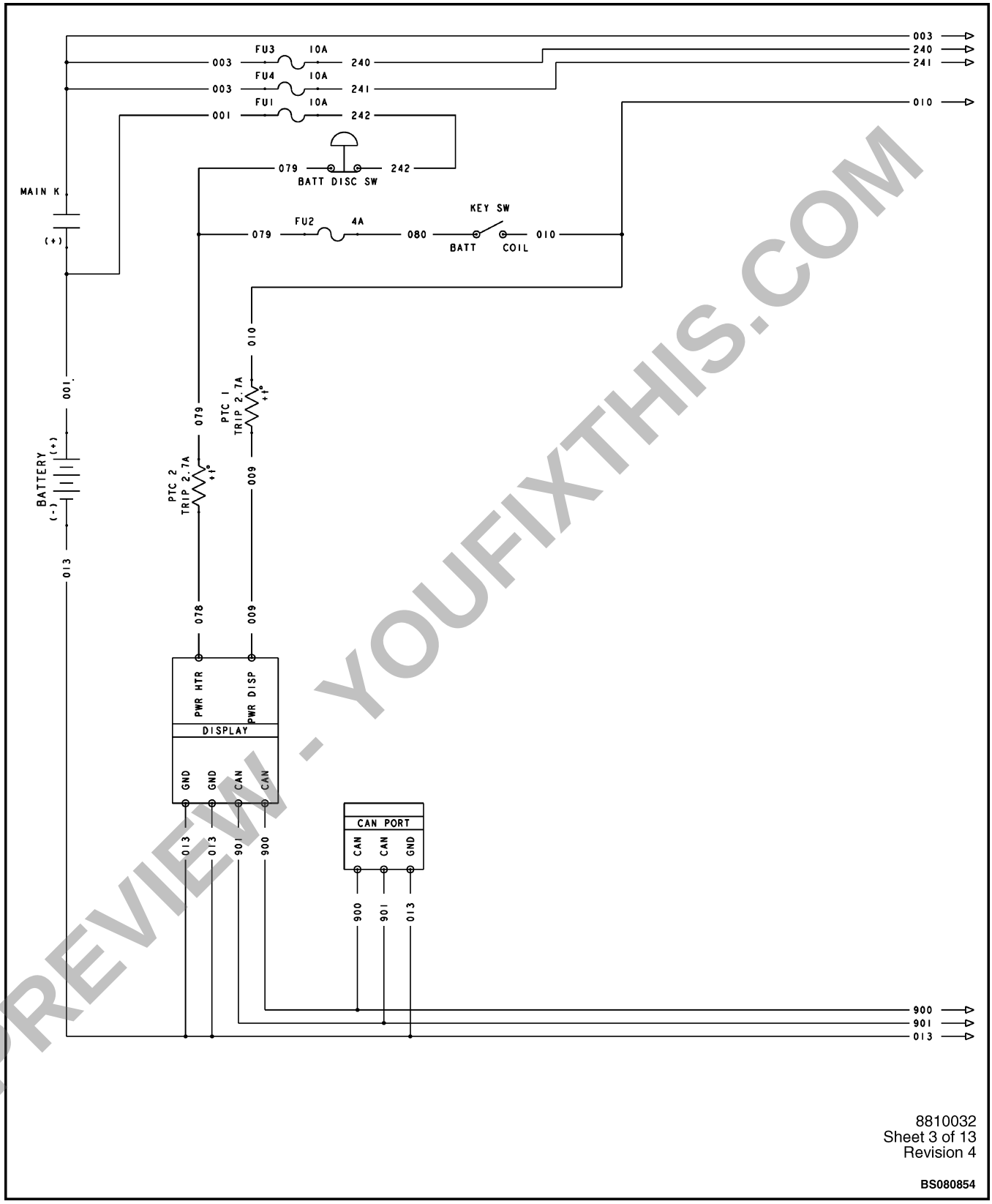
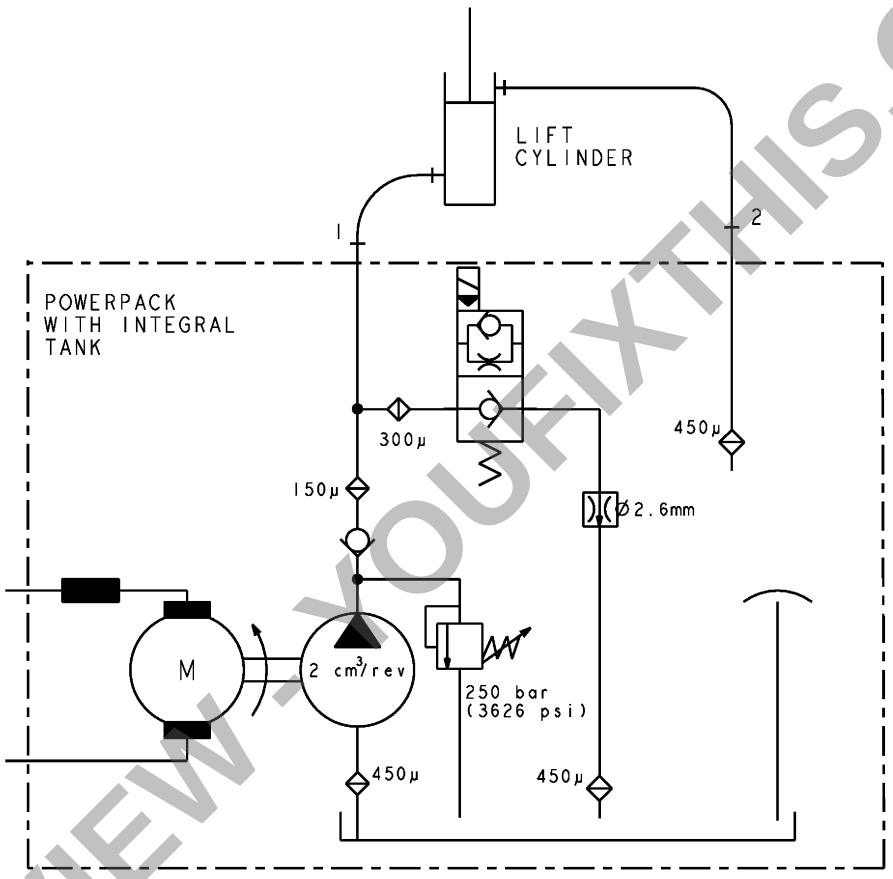


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Figure 1. Wiring Schematic (Sheet 3 of 13)

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4055629
Sheet 1 of 1
Revision 2

BS150094

Figure 2. Hydraulic Diagram

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Frame Separation and Assembly

DISASSEMBLE

In some cases a fork frame or a drive frame may be damaged, while the rest of the truck is still usable. The two frames may be separated from each other by using the following steps:

1. Remove drive unit compartment doors.
2. Remove nut and washer from hydraulic cylinder rod end.
3. Raise motorized lift truck to its maximum height using control handle Lift button. Move key to the **OFF** position. Disconnect battery.
4. Remove battery from lift truck, but keep it nearby so it can be reconnected when necessary.
5. Securely support drive frame so it will remain upright when disconnected from fork frame by positioning blocks under all four corners. Shim blocks so they are snug to the frame.
6. Position blocks under each side of fork frame near battery compartment. Position blocks under each fork near load roller. Refer to section, How to Put Lift Truck on Blocks in **Periodic Maintenance** 8000SRM1705.
7. Reconnect battery connector, and move key switch to the **ON** position. Using control handle Lower button, lower fork frame onto blocks and continue lowering to relieve pressure from lift cylinder and lifting mechanism.
8. Move key to the **OFF** position and disconnect battery. Discharge capacitors. Refer to section, Discharging the Capacitors in **Periodic Maintenance** 8000SRM1705.
9. Remove capscrew from lower end of lift cylinder and lifting mechanism.
10. Drive pin out using a brass drift.
11. Remove lift cylinder from lifting mechanism and secure within drive unit compartment.
12. Remove pivot pins from upper links and drive unit frame. Refer to section, Rear Link and Load Wheel in **Lift Mechanism** 4000SRM1702.
13. Remove both drive frame pivot pins from rocker arm and drive unit frame. Refer to section, Rear Link and Load Wheel in **Lift Mechanism** 4000SRM1702.
14. Carefully move one of the frames away from the other.

ASSEMBLE

1. Position fork frame and drive frame together and align so lift linkage can be reconnected. Securely support frames on blocks. Refer to section, How to Put Lift Truck on Blocks in **Periodic Maintenance** 8000SRM1705.
2. Install both drive unit frame pivot pins to rocker arms and drive unit frame. Refer to section, Rear Link and Load Wheel in **Lift Mechanism** 4000SRM1702.
3. Install both pivot pins to upper link and drive unit frame. Refer to section, Rear Link and Load Wheel in **Lift Mechanism** 4000SRM1702.
4. Install hydraulic cylinder rod into trunnion mounting on fork frame.
5. Install pivot pin to bottom of hydraulic cylinder and fork frame. Install capscrew to cylinder pivot pin.

NOTE: Position the battery near the lift truck so it can be connected to power the lift truck.

6. Connect battery connector and turn key switch to the **ON** position. Raise lift truck using control handle Lift button.
7. Remove blocks from under frames and test operation of truck by lifting and lowering several times. Lower truck to floor using control handle Lower button.
8. Check pull rod adjustment. Refer to section, Fork Height Adjustment in **Lift Mechanism** 4000SRM1702.
9. Turn key switch to **OFF** position and disconnect battery connector.
10. Install nut and washer to hydraulic cylinder rod.

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Troubleshooting

PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
AC Motor is noisy	Loose or damaged hardware.	Repair or replace hardware or components as necessary.
	Gearbox or hydraulic oil may be low.	Check gearbox or hydraulic oil level, add oil as needed.
Drive Motor is noisy	Drive motor is not flush and not fully seated to MDU. There should be no clearance between motor and MDU interface.	Look for clearance between drive motor flange and MDU mounting face. Look for loose Drive Motor mounting bolts. Mounting bolt torque to be 23 N•m (17 lbf ft). Remove the drive motor, refer to Remove for procedures, and look for burrs and raised areas along the drive flange pilot diameter. Repair or replace as necessary.
	Improper installation or damage to input gear teeth.	Check installation for proper alignment and check input gear teeth for damaged or missing teeth. Replace input gear if necessary.
	Worn drive tire or load wheel damage.	Check drive tire for wear and load wheel for damage. Replace if necessary.
	Damage to MDU.	Inspect MDU for damage and replace if necessary.
	Improper side to side clearance of caster.	Adjust caster side to side clearance as needed.
AC Motor will not turn or turns very slowly or vibrates.	AC Motor and MDU may be assembled incorrectly.	Check for proper assembly, disassemble and reassemble as needed.
	AC Motor gears or MDU gear box gears may be binding.	Disassemble AC Motor or MDU to inspect gears for proper assembly and installation. Replace gears as needed.
	Drive Motor Brake may not be operating properly.	Inspect the brake for proper operation and installation.

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Pump Coil (Cont)

NO: Inspect ground control circuit W028 for open or source of excessive resistance.

CAUSE B - PUMP COIL FAULT

PROCEDURE OR ACTION:

1. Measure resistance between the pump coil positive and negative terminals.
   Is resistance 40 ± 4.0 ohms?
   YES: Proceed to Cause C.
   NO: Replace faulty lower coil.

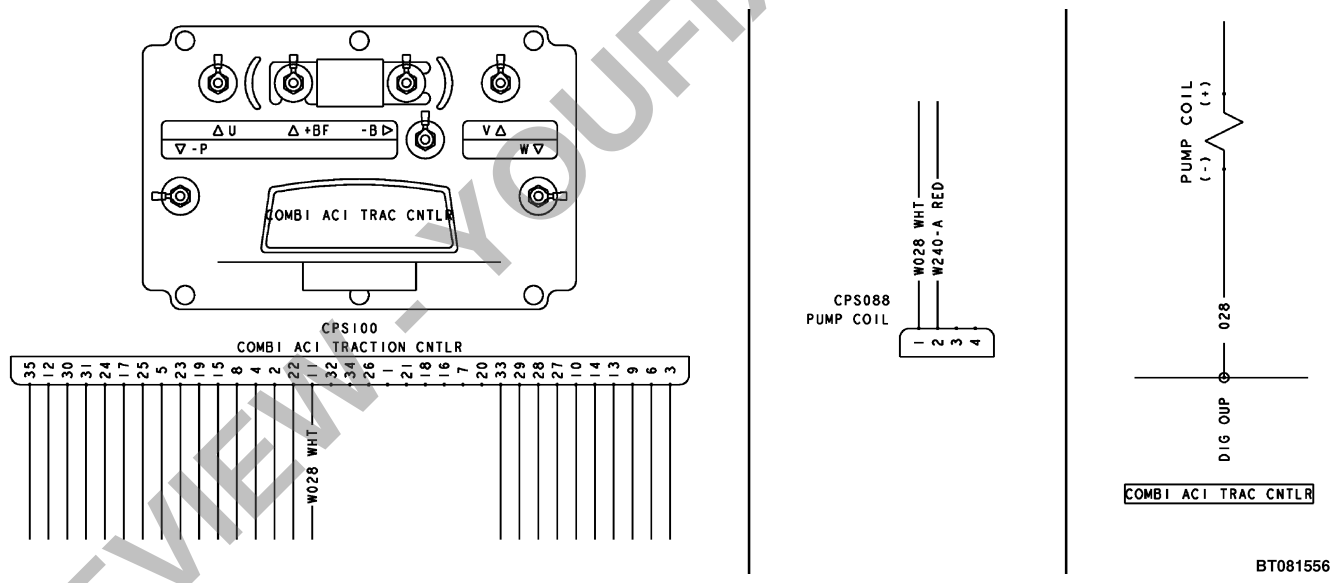
CAUSE C - FAULTY COMBINATION CONTROLLER

PROCEDURE OR ACTION:

1. If no faults are found, replace controller. Make sure to indicate the DTC code(s) on the warranty claim to include an accurate problem description leading to controller replacement.

END POSSIBLE CAUSES

DIAGRAMS



Troubleshooting Scene

END FAULT

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FASTENER TORQUE TABLES

Table 5. Torque Values for Metric Fasteners*

Size and Pitch	Property Class 5.8[1]		Grade 8.8[2]		Grade 10.9[3]	
	N•m	lbf ft	N•m	lbf ft	N•m	lbf ft
M3 × 0.5 M3.5 × 0.6 M4 × 0.7 M5 × 0.8 M6 × 1	0.62 0.97 1.44 2.91 4.94	0.5 0.7 1.1 2.1 3.6	0.99 1.55 2.30 4.65 7.90	0.7 1.1 2.1 3.6 6	1.34 2.11 3.13 6.33 10.8	1.0 1.6 2.3 4.7 8
M8 × 1.25 M8 × 1 M10 × 1.5 M10 × 1.25	12.0 12.8 23.8 25.1	9 9 18 19	19.2 20.5 38.0 40.1	14 15 28 30	26.1 27.9 52 55	19 21 38 41
M12 × 1.75 M12 × 1.25 M14 × 2 M14 × 1.5	41.4 45.3 66 72	31 33 49 53	66 72 105 115	49 53 77 85	90 98 145 155	66 72 105 115
M16 × 2 M16 × 1.5 M20 × 2.5 M20 × 1.5	105 110 200 225	77 81 150 165	165 175 320 355	122 130 235 260	225 240 435 485	165 175 320 360
M24 × 3 M24 × 2 M27 × 3 M27 × 2	345 375 505 550	255 275 370 405	555 605 810 875	410 445 600 645	755 820 1,100 1,190	560 605 810 880
M30 × 3.5 M30 × 3 M30 × 2 M33 × 3.5 M33 × 2	690 715 765 940 1,030	510 530 565 695 760	1,100 1,140 1,220 1,500 1,640	810 840 900 1,100 1,210	1,500 1,550 1,660 2,040 2,240	1,100 1,140 1,230 1,510 1,660
M36 × 4 M36 × 3 M39 × 4 M39 × 3	1,200 1,280 1,560 1,640	885 945 1,150 1,210	1,930 2,040 2,490 2,630	1,430 1,510 1,840 1,940	2,620 2,780 3,390 3,570	1,940 2,050 2,500 2,640
M42 × 4.5 M42 × 3 M45 × 4.5 M45 × 3 M48 × 5 M48 × 3	1,930 2,070 2,410 2,580 2,900 3,160	1,430 1,530 1,780 1,910 2,140 2,330	3,080 3,320 3,850 4,120 4,630 5,040	2,280 2,450 2,840 3,040 3,420 3,720	4,200 4,510 5,240 5,610 6,300 6,860	3,100 3,330 3,870 4,140 4,650 5,060

* Unless otherwise specified [1] Approximately equal to Grade 2 [2] Approximately equal to Grade 5 [3] Approximately equal to Grade 8

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Table 1. Maintenance Schedule

Item No.	Item	1 day / 8 hr[8]	6 wk/ 250 hr[8]	3 mo/ 500 hr[8]	1 yr/ 2000 hr[8]	Procedure or Quantity	Specification
1	Battery	X[1]				Check Charge Status	Charge or Change Out
	Electrolyte	X				Check Level	Distilled Water
	Restraint Panels	X				Check Condition	Repair as Necessary
	Power Disconnect	X				Check Operation	Repair as Necessary
2	Parking Brake	X				Check Operation	Repair as Necessary
					X	Hold on Grade Test	Capacity Load on 10% Grade
3	Horn	X				Check Operation	No Binding. Operates Proper Function
	Lift/Lower Control	X				Check Operation	No Binding. Operates Proper Function
	Directional/Speed Control	X				Check Operation	No Binding. Operates Proper Function
4	Hydraulic System	X				Check for Leaks	Repair as Necessary
	Hydraulic Hoses and Fittings	X				Visually Inspect for Leaks	Repair as Necessary
				X		Check for Hose Damage and Loose Fittings	Repair or Replace as Necessary

X=Check C=Change L=Lubricate
NOTE: Never use steam to clean electrical parts.

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Traction Motor Repair

REMOVE

WARNING

Capacitors inside the controllers can hold an electrical charge after the battery is disconnected. discharge the capacitors before servicing the electrical system to prevent injury or electronic damage.

WARNING

The AC traction motor is heavy. To prevent injury, use a lifting device of adequate capacity for lifting the assembly.

It is not necessary to remove traction motor from lift truck to make some repairs. Perform only the steps necessary to safely complete the required service.

WARNING

Disconnect the battery and separate the connector before opening the drive unit compartment door and before inspecting or repairing the electrical system. If a tool causes a short circuit, the high-current flow from the battery can cause injury or parts damage.

1. Turn key switch to **OFF** position and disconnect battery connector. Discharge capacitors. See Special Precautions in this manual.
2. Remove operators compartment console. See **Frame** 0100SRM1694.
3. Open drive unit compartment door and fasten fully open.
4. Remove hydraulic motor and hydraulic tank from lift truck. See **Hydraulic Systems** 1900SRM1698.
5. Remove steer motor from lift truck. See **Steering Mechanism** 1600SRM1696.

NOTE: The brake may be removed at this point. However, it is not necessary to remove the brake if the motor will not be disassembled.

6. Remove brake from top of traction motor if necessary. See **Brake System** 1800SRM1697.
7. Identify, tag, and disconnect power cables and wiring connecting traction motor to truck electrical system.

WARNING

The AC traction motor weighs 42.5 kg (94 lb). To prevent injury, use a lifting device of adequate capacity for lifting the assembly.

WARNING

There are close clearances between the MDU, drive motor and truck frame, which can cause serious injury. NEVER put hands, arms, head, or legs between these parts unless there are blocks in place to prevent movement. If the drive motor falls, it can cause an injury. Support the drive motor vertically using an overhead hoist and rated lifting device to prevent it from falling.

CAUTION

Clean the motor housing and drive unit (MDU) mating surfaces prior to removing the drive motor. Use clean cloths and suitable spray cleaner. DO NOT use pressure washing methods to clean MDU and motor compartment. Use care when lifting drive motor to prevent dirt from entering MDU.

CAUTION

Use care when removing the drive motor. Some slight rotation of the motor may be required to allow pinion gear to exit the internal gear of MDU. Protect the drive motor input pinion gear from damage.

8. Remove six capscrews and lockwashers from traction motor and adapter ring on the MDU.
9. Using Ring Eye Adapter lifting device, screw adapter into threads of rotor shaft.

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SECTION 9030
ELECTRICAL SYSTEMS

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DTC 32062 - Combi - Traction Motor - Encoder 9030-20-26
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DTC 32069 - Combi - Capacitor - Charge 9030-20-37

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Table 9030-03-5. Warning Codes (Continued)

CODE TYPE	NODE	STATUS	DESCRIPTION	SYMPTOM
Startup	32	229	Truck Locked Out	Truck functions are locked out. Unlock truck functions by disabling the Settings Menu item S15 **TRUCK LOCK-OUT**.
	32	230	Checklist Not Complete	Operator Checklist was not completed or one of the items failed. Correct failed issue by operator and re-key truck. If Checklist functionality is not needed, disable feature through the Settings Menu S12 **CHECKLIST**
	32	231	Maint Reminder	Truck is nearing maintenance. Truck performance may be turned down by the truck if maintenance is not performed. If Maint Reminder functionality is not needed, disable feature through the Settings Menu S13 **MAINT REMINDER**.
	32	244	Check Battery	Battery installed is not the battery intended for truck configuration or battery may be damaged. Inspect battery and verify proper voltage battery being used and that the battery is not damaged. Voltage should be between 19.2V and 28.8V and can be monitored in menu D2.32.8 **CAP V**.
	32	245	Lift Interrupt Low Battery	Battery has been reduced to Lift Interrupt voltage levels. Truck will not lift and will sound horn when lifting is attempted. If Lift Interrupt functionality is not needed, disable feature through the Settings Menu S9 **LIFT INTERRUPT**.
	32	246	Serial Number Mismatch	The truck serial number in the display does not match the truck serial number in the master controller. If a new controller is installed into the truck, the serial number of the truck is automatically written to the new controller.
Software/ Parameter Incorrect	32	232	Download Software	Software revisions for the truck controllers do not match a known truck configuration. Re-download software/CDF File using the Field Software Tool.
	32	247	Download Parameter	Parameter value(s) in controller(s) are not set correctly. Re-download the truck software/CDF file using the Field Software Tool.
Calibration	32	233	Calibrate Throttle	Calibration of throttle is needed. Perform calibration in Menu C4. Refer to the appropriate User Interface manual for further calibration information.
	32	235	Calibrate Lift/Lower	Calibration of Lift/Lower is needed. Perform calibration in Menu C5. Refer to the appropriate User Interface manual for further calibration information.
Any Node or system that detects a thermal fault is capable of reporting a Status Code.				

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Table 6. Torque Values for Inch Fasteners*

Size and Pitch		Grade 2[1]		Grade 5[2]		Grade 8[3]	
		lbf ft	N•m	lbf ft	N•m	lbf ft	N•m
1/4 1/4	20 UNC 28 UNF	4 5	6 6	6 7	9 10	9 10	12 14
5/16 5/16	18 UNC 24 UNF	8 9	11 13	13 14	18 20	18 20	25 28
3/8 3/8	16 UNC 24 UNF	15 17	20 23	23 26	31 36	33 37	44 50
7/16 7/16	14 UNC 20 UNF	24 27	33 36	37 41	50 56	52 58	71 79
1/2 1/2	13 UNC 20 UNF	37 41	50 56	57 85	77 115	80 90	110 120
9/16 9/16	12 UNC 18 UNF	53 59	72 80	82 91	110 125	115 130	155 175
5/8 5/8	11 UNC 18 UNF	73 83	99 110	115 130	155 175	160 180	215 245
3/4 3/4	10 UNC 16 UNF	130 145	175 195	200 225	270 300	280 315	380 425
7/8 7/8	9 UNC 14 UNF	125 140	170 185	320 355	435 480	455 500	615 680
1 1	8 UNC 14 UNF	185 210	255 285	485 540	655 735	680 765	925 1,040
1-1/8 1-1/8	7 UNC 12 UNF	265 300	360 405	595 670	805 905	965 1,080	1,310 1,470
1-1/4 1-1/4	7 UNC 12 UNF	375 415	510 565	840 930	1,140 1,260	1,360 1,500	1,850 2,050
1-3/8 1-3/8	6 UNC 12 UNF	490 560	665 760	1,100 1,250	1,490 1,700	1,780 2,040	2,420 2,760
1-1/2 1-1/2	6 UNC 12 UNF	650 735	885 995	1,460 1,650	1,980 2,230	2,370 2,670	3,210 3,620

* Unless otherwise specified [1] Approximately equal to metric Property Class 5.8 [2] Approximately equal to metric Property Class 8.8 [3] Approximately equal to metric Property Class 10.9

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Table 1. Maintenance Schedule (Continued)

Item No.	Item	1 day / 8 hr[8]	6 wk/ 250 hr[8]	3 mo/ 500 hr[8]	1 yr/ 2000 hr[8]	Procedure or Quantity	Specification
	Hydraulic Oil			X		Check Level (Full Mark on Tank)	Hydraulic Oil[2]
					C[3]	Change	
	Hydraulic Oil Strainer				X/C	Inspect / Replace as Necessary	See **Parts Manual**
5	Lift and Lower Linkage	X				Check Operation	Repair as Necessary
	Load Roller Linkage			L		Lube Fittings	Multipurpose Grease[4]
	Forks to Drive End Frame Linkage			L		Lube Fittings	Multipurpose Grease[4]
	Safety Labels and Operating Manual	X				Replace if Missing or Damaged	See **Parts Manual**
6	Frame	X				Visually Inspect	Repair as Necessary
7	Casters	X				Check Condition	Repair as Necessary
	Caster Adjustment		X			Check Adjustment Gap	Adjust as Necessary
	Caster Swivel (Greasable Option)	L[5]		L		Lube Fitting	Multipurpose Grease[4]
	Caster Wheel (Greasable Option)	L[5]		L		Lube Fitting	Multipurpose Grease[4]

X=Check C=Change L=Lubricate
NOTE: Never use steam to clean electrical parts.

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General 1
Frame Separation and Assembly 2
Disassemble 2
Assemble 2
Painting Instructions 3
Label Replacement 3

This section is for the following models:

(BE80ZHD, BE100ZHD) [A244]

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SAFETY PRECAUTIONS
MAINTENANCE AND REPAIR

- The Service Manuals are updated on a regular basis, but may not reflect recent design changes to the product. Updated technical service information may be available from your local authorized Hyster® dealer. Service Manuals provide general guidelines for maintenance and service and are intended for use by trained and experienced technicians. Failure to properly maintain equipment or to follow instructions contained in the Service Manual could result in damage to the products, personal injury, property damage or death.
- When lifting parts or assemblies, make sure all slings, chains, or cables are correctly fastened, and that the load being lifted is balanced. Make sure the crane, cables, and chains have the capacity to support the weight of the load.
- Do not lift heavy parts by hand, use a lifting mechanism.
- Wear safety glasses.
- DISCONNECT THE BATTERY CONNECTOR before doing any maintenance or repair on electric lift trucks. Disconnect the battery ground cable on internal combustion lift trucks.
- Always use correct blocks to prevent the unit from rolling or falling. See HOW TO PUT THE LIFT TRUCK ON BLOCKS in the **Operating Manual** or the **Periodic Maintenance** section.
- Keep the unit clean and the working area clean and orderly.
- Use the correct tools for the job.
- Keep the tools clean and in good condition.
- Always use **HYSTER APPROVED** parts when making repairs. Replacement parts must meet or exceed the specifications of the original equipment manufacturer.
- Make sure all nuts, bolts, snap rings, and other fastening devices are removed before using force to remove parts.
- Always fasten a DO NOT OPERATE tag to the controls of the unit when making repairs, or if the unit needs repairs.
- Be sure to follow the **WARNING** and **CAUTION** notes in the instructions.
- Gasoline, Liquid Petroleum Gas (LPG), Compressed Natural Gas (CNG), and Diesel fuel are flammable. Be sure to follow the necessary safety precautions when handling these fuels and when working on these fuel systems.
- Batteries generate flammable gas when they are being charged. Keep fire and sparks away from the area. Make sure the area is well ventilated.

NOTE: The following symbols and words indicate safety information in this manual:

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury and property damage.

On the lift truck, the WARNING symbol and word are on orange background. The CAUTION symbol and word are on yellow background.

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General

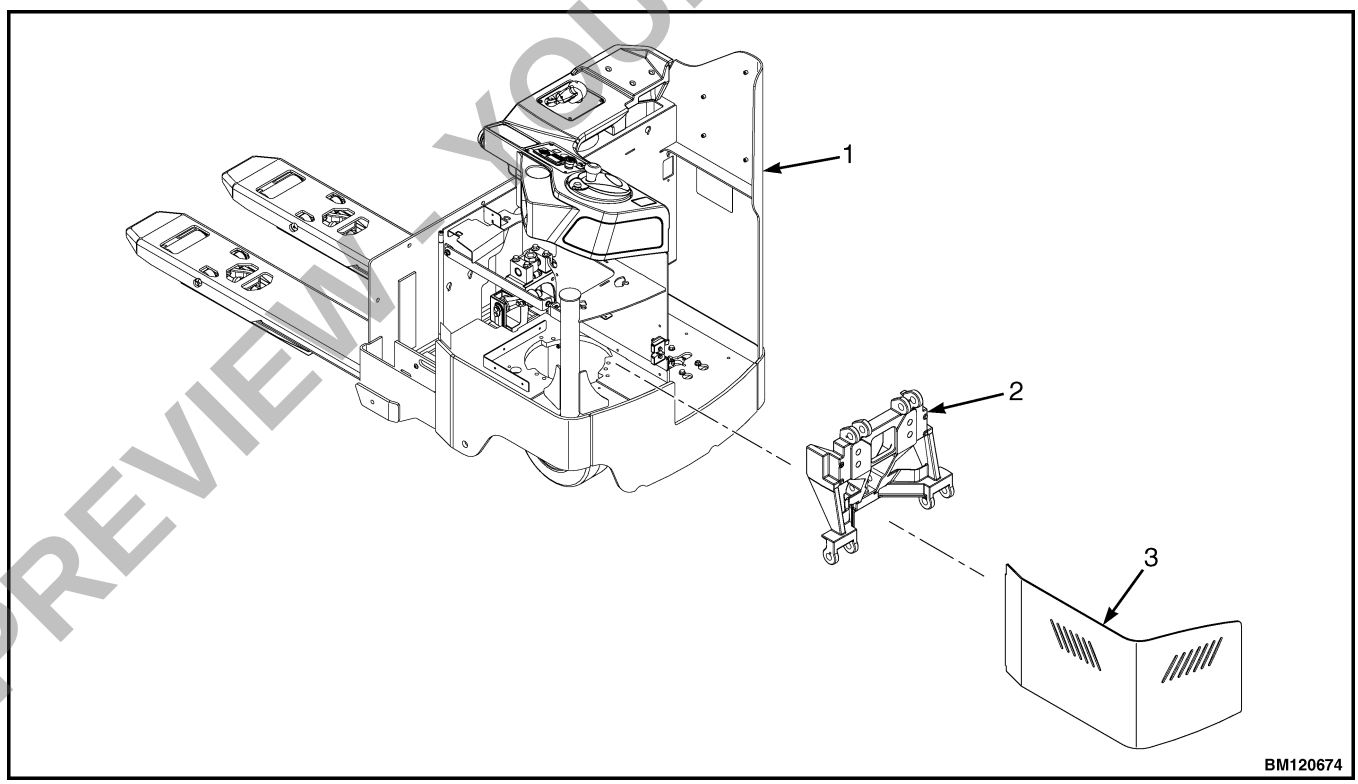
WARNING

DO NOT make repairs or adjustments unless you have been properly trained and authorized to do so. Improper repairs and adjustments can create dangerous operating conditions. DO NOT operate a lift truck that needs repairs. Report the need for repairs to your supervisor immediately. If repair is necessary, turn the key switch to the OFF position, disconnect the battery connector, and attach a DO NOT OPERATE tag to the control handle.

This section contains the description and repair procedures for the frame weldments of the lift truck. Additional information may be included in other sections when the information is more closely related to other systems. Sections that may contain related information include:

- **Periodic Maintenance** 8000SRM1705
- **Electrical System** 2200SRM1701
- **Steering Mechanism** 1600SRM1696
- **Master Drive Unit S/N A169N03000L=> S/N A185N03000L=> S/N H118N03000L=> S/N E174N03000L=>** 0630SRM1609

The frame is a two-piece unit which has integral mounting brackets and factory-drilled holes for the mounting of covers, truck components, and lifting mechanisms. The **Fork Frame** is linked to the **Drive Frame** by the lift links of the lifting mechanism system. See Figure 1. The lift cylinder actuates to lift the fork frame and evenly raise the load. The battery end of the fork frame is lifted directly by the cylinder and pivots on the lift links to the drive frame. The fork tips of the fork frame are lifted simultaneously by pull rods connecting the lift links to the load wheel linkages near the tips of the forks.



1. FRAME
2. CASTING
3. DOOR

Figure 1. Typical Frame

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USER INTERFACE SUPERVISOR FUNCTIONS

BE80ZHD, BE100ZHD [A244]

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HYSTER

PART NO. 4110880

2200 SRM 1699

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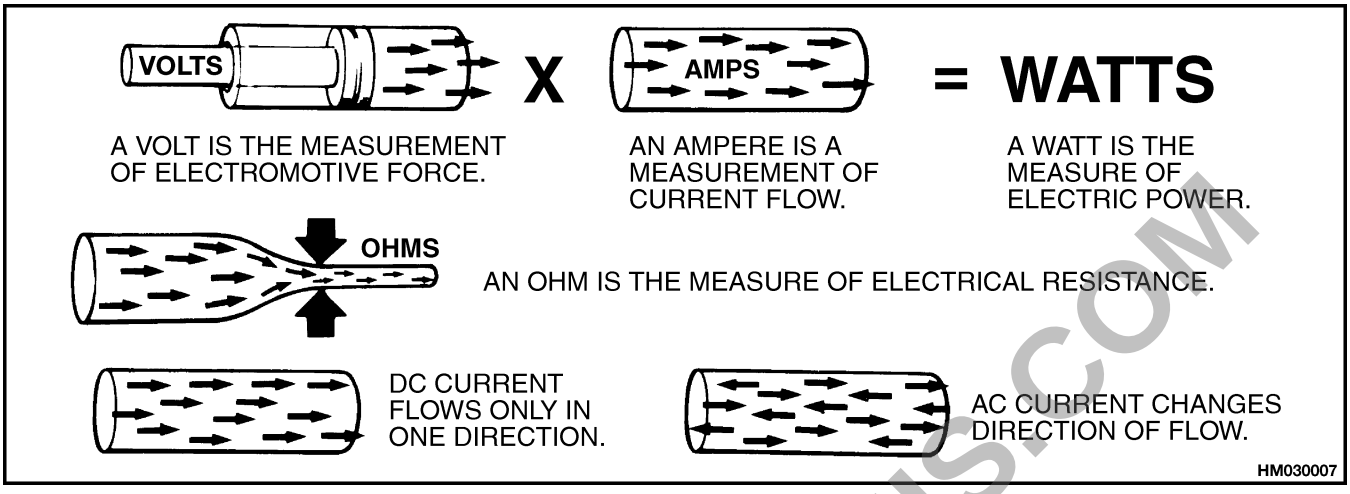


Figure 7. Electrical Terms

Battery Selection

NOTE: The capacity of the battery can be found on the lift truck's Nameplate. See the Frame section or Operating Manual for your lift truck for the location of the Nameplate.

The battery needed to operate a period of 8 hours depends on many conditions. Operations that require the lift truck to go up ramps or require the use of additional attachments increase the use of power from the battery. Some work conditions require that more than one battery must be used during a work period. The number of 8-hour work periods per day is normally equal to the number of batteries needed. For example, for three work periods, you need three batteries. The capacity of the battery you need is found as follows:

- The size of the lift truck and the attachments.
- The type of work. Heavy-duty operation or normal operation for one 8-hour work period.

Lift trucks are available in various voltage ranges. See Figure 8. The small "walkie" lift trucks are normally 12 or 24 volts. The larger sit-down rider lift trucks are normally 24, 36, 48, 72, or 80 volts. The number of cells in a lead-acid battery gives the battery voltage. See Figure 9. A fully charged cell has a potential difference of approximately 2 volts. See Figure 8. This potential difference does not change with size of the cell.

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DRIVE UNIT COMPARTMENT DOOR

Open the drive unit compartment door by lifting up on latch handle. Pull the door open on its hinges. To close, push the door closed until latch catches. Verify that the door seats properly against the frame. See Figure 7.

CASTER WHEEL COVER

Lift floor mat out of operator compartment. Remove floorplate by pivoting plate upward to about 45° angle pull straight out.

To replace, insert alignment tabs into openings on frame and drop plate into place. Install floormat onto floorplate.

HOW TO MOVE A DISABLED TRUCK

This lift truck is not normally towed. If the traction system will not operate, make repairs at the location if possible. If the lift truck must be towed, refer to How to Tow the Lift Truck in this section.

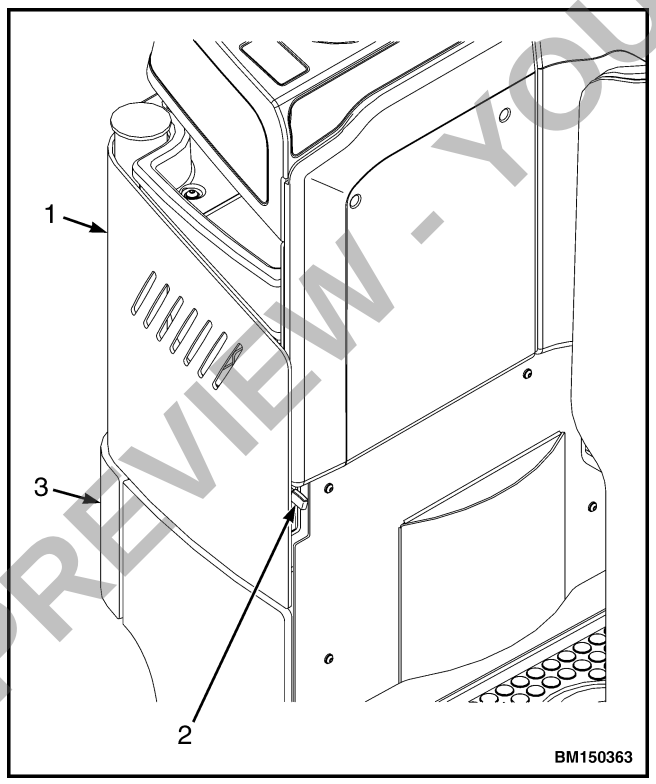


Figure 7. Drive Unit Compartment Door

Legend for Figure 7

1. DRIVE UNIT COMPARTMENT DOOR
2. LATCH
3. FRAME

WARNING

Never carry a disabled lift truck unless the lift truck MUST be moved. The lift truck used to lift the disabled lift truck MUST have a rated capacity equal to or greater than the weight of the disabled lift truck. The capacity must be for a load center equal to half the width of the disabled lift truck. See the capacity plate on the disabled lift truck for the approximate total weight. The forks must extend the full width of the disabled lift truck. Put the weight of the disabled lift truck at the center of the forks and be careful not to damage the under side of the disabled lift truck. Tilt the mast back and travel slowly.

Make sure no one except the driver is near the lift trucks during towing. Both the tow truck and the disabled truck can cause a personal injury during towing.

To avoid personal injury, use extra care when moving a lift truck during the following conditions:

- **Brake does not operate correctly**
- **Steering does not operate correctly**
- **Tire is damaged**
- **Traction conditions are bad**

CAUTION

Never carry the lift truck faster than the speed of a person walking. Steering can be difficult and motor damage can occur at higher speeds. Always travel smoothly without sudden starts.

The electric brake must be released before the lift truck can be moved. If there is not sufficient battery power, placing the control handle in the operating position will not release the electric brake. Refer to the How to Tow the Lift Truck section of the Maintenance Manual. Use the control handle to steer the lift truck while it is being towed. Use one hand and walk to one side of the lift truck. **DO NOT** walk or stand between the towing vehicle and the lift truck.

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