SERVICE MANUAL

B219 (E30-35-40HSD2)



Rev. 07/14

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SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 1410	09/12
DC MOTOR MAINTENANCE	0620 SRM 0294	03/08
AC MOTOR REPAIR	0620 SRM 1385	12/12
TRANSAXLE	1300 SRM 1411	10/13
STEERING SYSTEM	1600 SRM 0996	04/10
AC MOTOR CONTROLLER	2200 SRM 1415	01/14
BRAKES	1800 SRM 1412	09/12
HYDRAULIC SYSTEM	1900 SRM 1413	09/12
CYLINDER REPAIR (MAST S/N A270, A271, A272, A551, A555, A559, .	2100 SRM 1382	03/14
A626, A627, A751, A752, B551, B555, B586, B587, B588, B589, B590, .	2100 SRM 1382	03/14
MAST REPAIR (S/N C661, C662, C663, C665)	4000 SRM 1405	05/14
WIRE HARNESS REPAIR	2200 SRM 1128	04/14
ELECTRICAL SYSTEM	2200 SRM 1414	07/10
USER INTERFACE - SUPERVISOR =>S/N B219N02184L	2200 SRM 1416	02/14
USER INTERFACE - TECHNICIAN =>S/N B219N02184L	2200 SRM 1417	09/13
USER INTERFACE S/N B219N02284L	2200 SRM 1652	09/13
USER INTERFACE S/N B219N02284L	2200 SRM 1653	09/13
INDUSTRIAL BATTERY	2240 SRM 0001	03/14
METRIC AND INCH (SAE) FASTENERS	8000 SRM 0231	12/04
PERIODIC MAINTENANCE	8000 SRM 1418	05/14
CAPACITIES AND SPECIFICATIONS	8000 SRM 1419	05/14
DIAGRAMS	8000 SRM 1420	07/14
CONTROLLER DIAGNOSTICS	9000 SRM 1649	09/13

Rev. 07/14

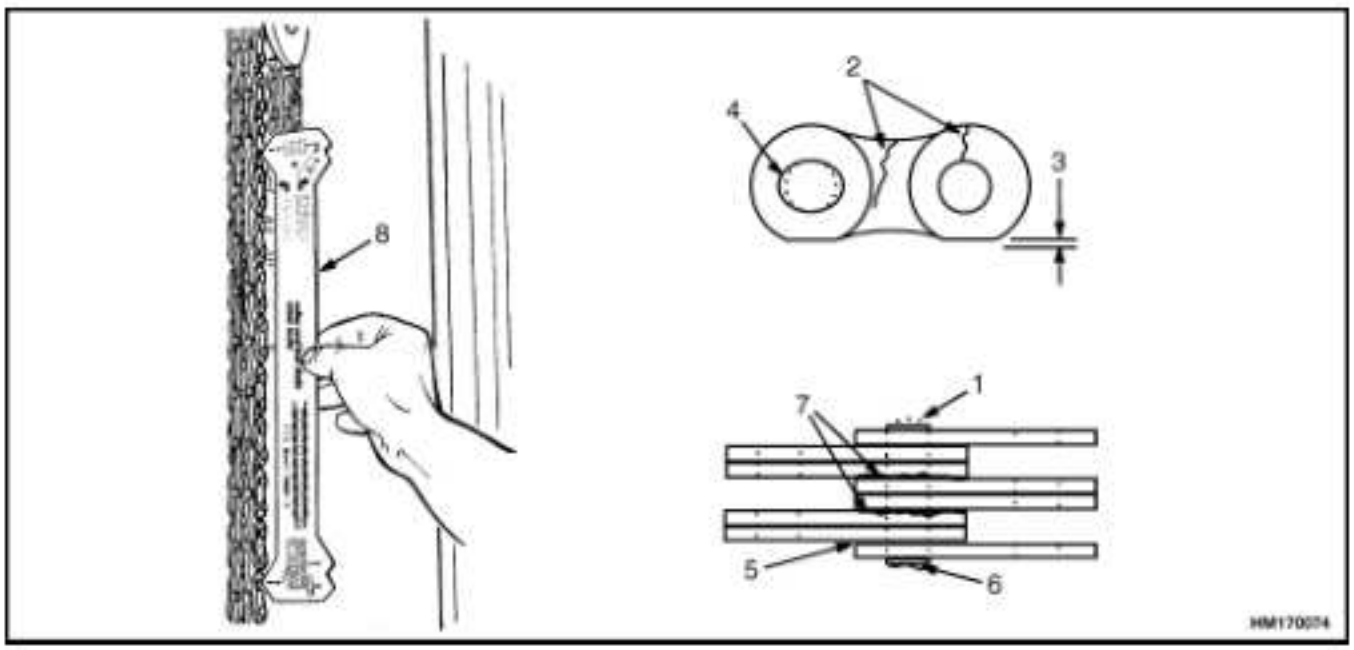
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ASSEMBLE

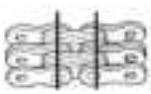
WARNING

The mast is heavy. The mast can weigh approximately 907 kg (2000 lb). Make sure all lifting devices (hoists, cables, chains, slings, etc.) are suitable and of adequate capacity to lift the mast. Serious injury can occur if mast falls.

NOTE: The shims for the load rollers keep the weldments parallel and provide correct clearance. During assembly, the shim arrangement will be approximately the same as before disassembly. Check the clearance and adjust the shims for wear or for changes caused by repairs. The strip bearings are also adjusted by using shims. See the section Mast Adjustments for the adjustment procedures.



NOTE: THE INSTRUCTIONS FOR MEASURING CHAIN WEAR ARE SHOWN ON THE CHAIN WEAR SCALE (HYSTER PART NO. 599737).

Pitch 	Total length of 20 links (pitch) of new chain	Wear Limit The maximum length of 20 links
12.7 mm (0.5 in.)	254.0 mm (10.0 in.)	261.6 mm (10.3 in.)
15.9 mm (0.6 in.)	317.5 mm (12.5 in.)	327.0 mm (12.9 in.)
19.1 mm (0.8 in.)	381.0 mm (15.0 in.)	392.4 mm (15.4 in.)
25.4 mm (1.0 in.)	508.0 mm (20.0 in.)	523.3 mm (20.6 in.)

1. WORN PIN
2. CRACKS
3. EDGE WEAR
4. HOLE WEAR
5. LOOSE LEAVES
6. DAMAGED PIN
7. RUST
8. CHAIN WEAR SCALE

Figure 63. Lift Chains Check

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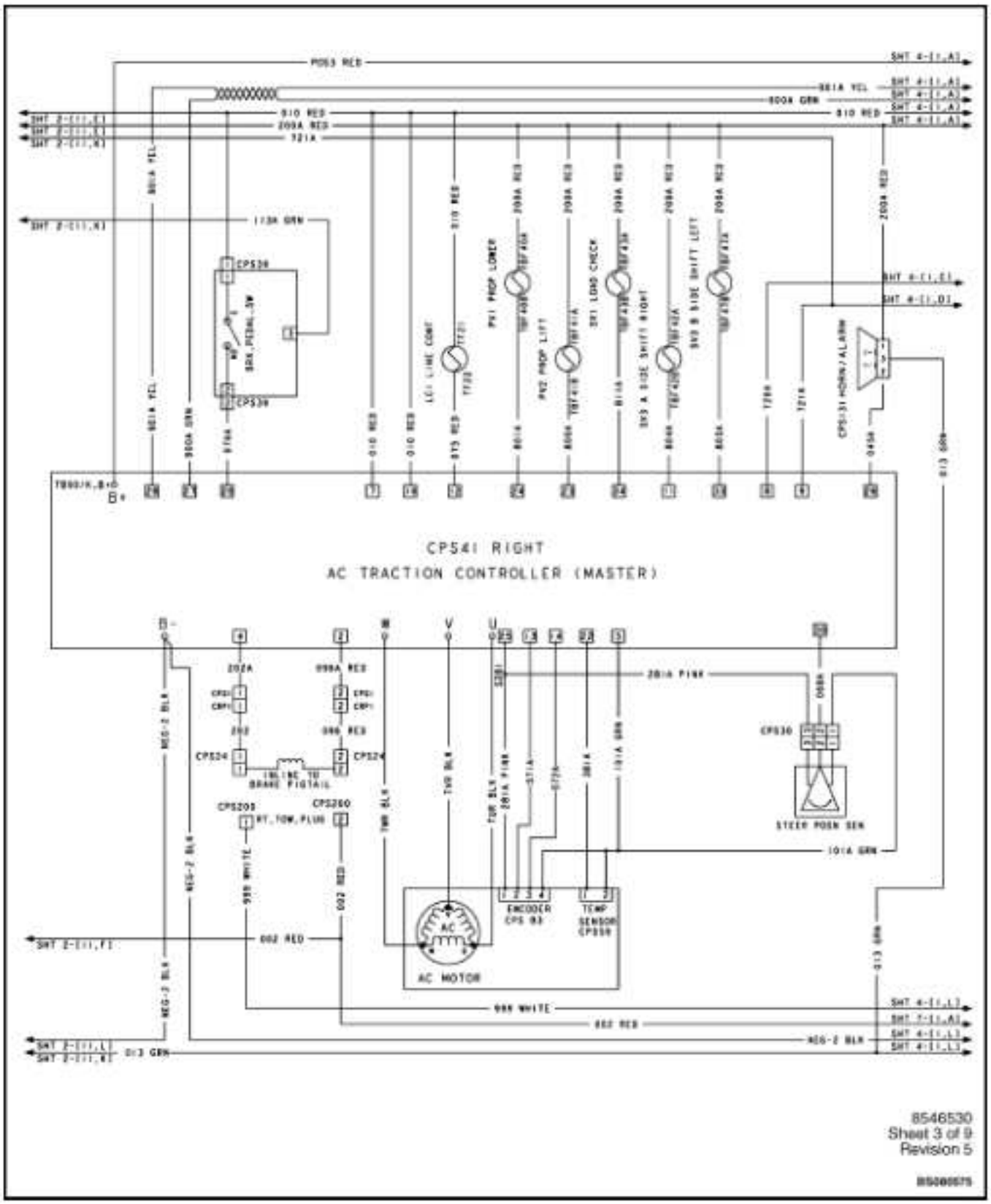
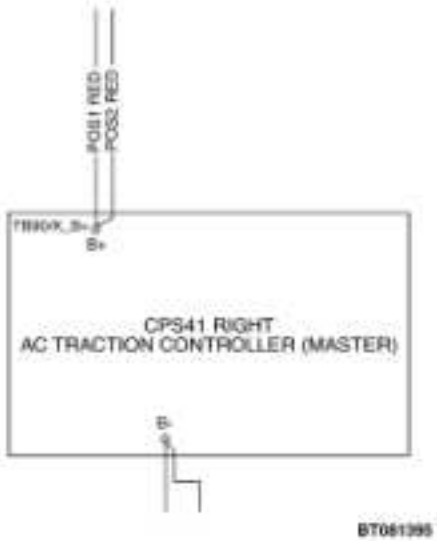


Figure 2. Schematic / Wiring Diagram (S/N B219N01920K ⇒) (Sheet 3 of 9)

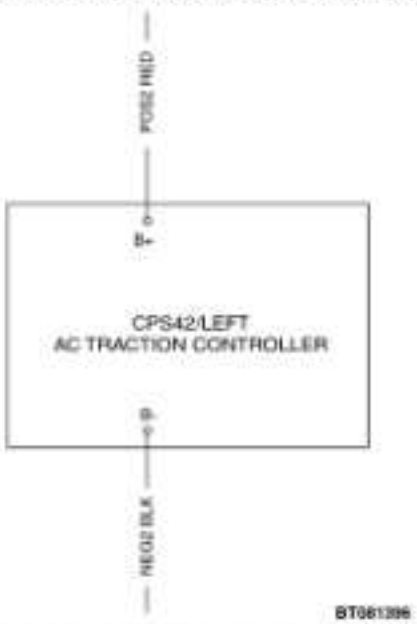
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DC Bus Voltage (Cont)

DIAGRAMS



Right Traction Troubleshooting Scene



Left Traction Troubleshooting Scene

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Brake Coil

CODES

DTC 30035 - Right Traction - Brake Coil - Circuit
DTC 30036 - Right Traction - Brake Coil - Short
DTC 31035 - Left Traction - Brake Coil - Circuit
DTC 31036 - Left Traction - Brake Coil - Short

POSSIBLE CAUSE

A. BRAKE COIL WIRING FAULT
B. BRAKE COIL FAULT
C. FAULTY TRACTION CONTROLLER

NOTE

Please refer to the end of this procedure for supporting diagrams.

COMPONENT OPERATIONAL CHECK

NOTE: Always check battery condition and state of charge before performing electrical troubleshooting. A faulty or low charged battery will cause electrical features to not operate as designed and give incorrect readings while performing electrical tests.

PROCEDURE OR ACTION:

1. Conduct a visual inspection of all connectors/wiring associated with the fault code.
   Are any faults detected/observed?
   YES: Repair/replace connector or wiring associated with faults found. Refer to the appropriate **Electrical System** SRM.
   NO: Proceed to Step 2.
2. Re-key the vehicle.
   Is the code still present?
   YES: Proceed to Step 3.
   NO: Problem may be intermittent.
3. Locate input diagnostics (D2.30) and verify brake coil circuit connect (D2.30.14).
   Is the brake coil circuit connected?
   YES: Proceed to Step 4.
   NO: Proceed to Cause A.

NOTE: Key in ON position.

4. Locate output diagnostics (D3.30) and actuate brake coil (D3.30.6).
   Does brake coil operate correctly when actuated?
   YES: Fault may be intermittent.
   NO: Proceed to Cause A.

CAUSE A - BRAKE COIL WIRING FAULT

PROCEDURE OR ACTION:

NOTE: Key in ON position.

1. Disconnect the brake contactor coil connector CPS24/26 and measure voltage between socket 2 and B(-).
   Is voltage 24 ± 2.5 Vdc / 36 ± 3.5 Vdc?

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