CEBM029800

Shop Manual

930E-4SE

DUMP TRUCK

SERIAL NUMBERS **A31828 - A31874**

KOMATSU®

MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800

Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

SUBJECT	SECTION
GENERAL INFORMATION	A
STRUCTURES	B
ENGINE	C
ELECTRIC SYSTEM (24VDC NON-PROPULSION)	D
ELECTRIC PROPULSION SYSTEM	E
REAR AXLE, SPINDLES AND WHEELS	G
HYDRAIR® II SUSPENSIONS	H
BRAKE CIRCUIT	J
HYDRAULIC SYSTEM	L
OPTIONS AND SPECIAL TOOLS	M
OPERATOR CAB	N
LUBRICATION AND PERIODIC MAINTENANCE	P
SYSTEM SCHEMATICS	R

MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800 Order the manual at mid-west-tech.com >

SECTION A
GENERAL INFORMATION
INDEX

MAJOR COMPONENTS & SPECIFICATIONS A2

SAFETY AND OPERATING INSTRUCTIONS A3

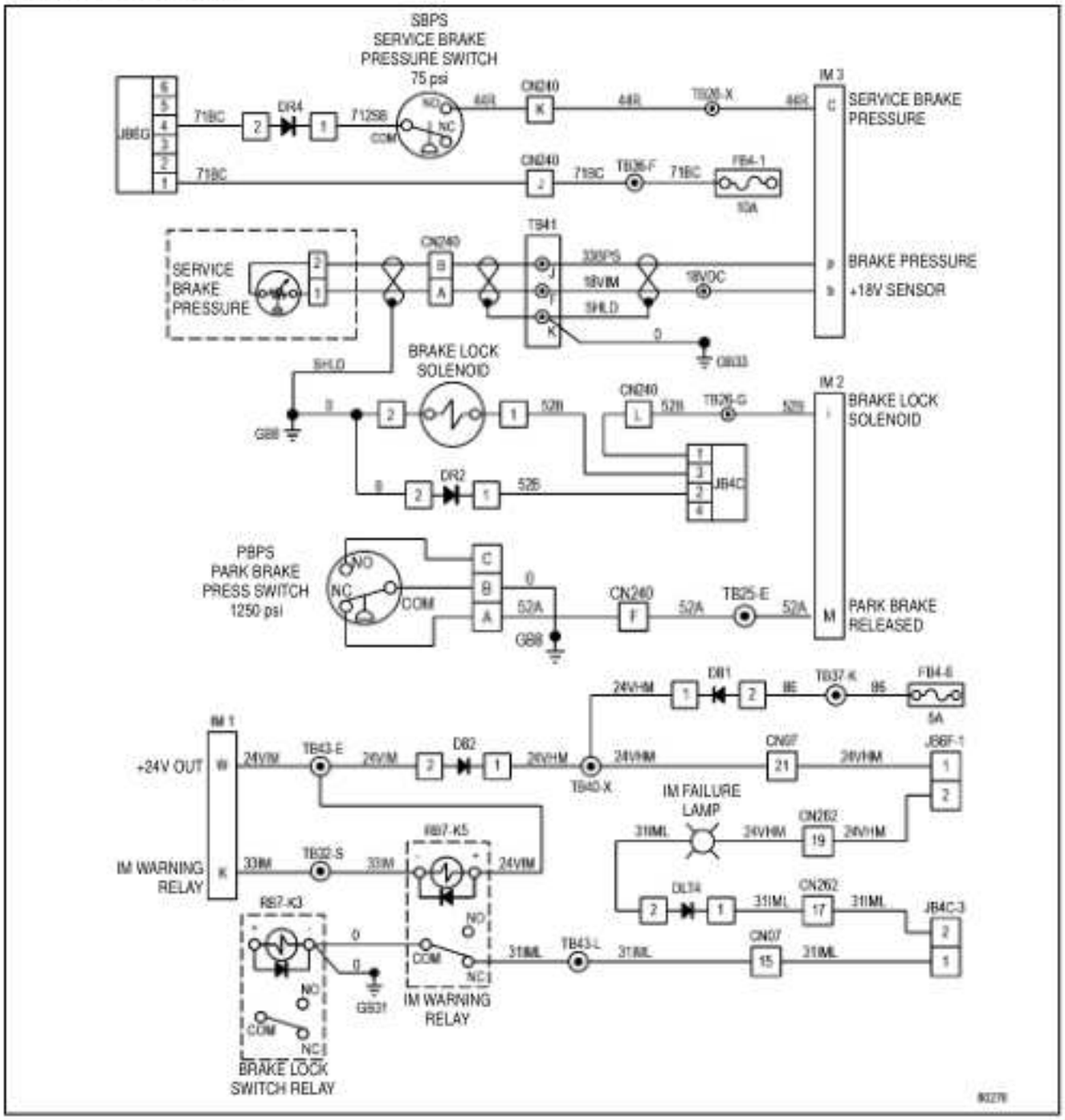
WARNINGS AND CAUTIONS. A4

TORQUE TABLES AND CONVERSION CHARTS A5

STORAGE AND IDLE MACHINE PREPARATION A7

MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800 Order the manual at mid-west-tech.com >

Related circuit diagram



MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800 Order the manual at mid-west-tech.com >

Fault Code A361: Overload on output 1T

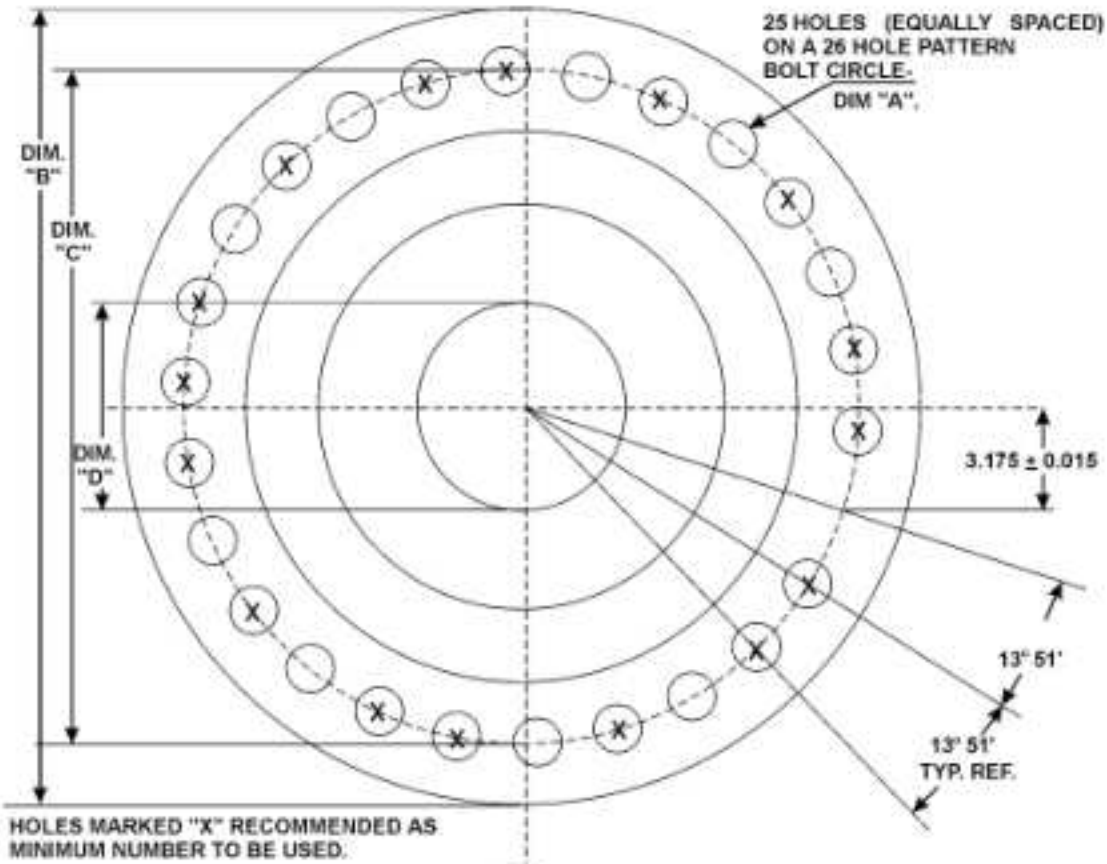
Operator Action	None
Fault Code	A361
Description	Overload on output 1T
Fault Conditions	Sets if driver chip detects overcurrent or over temp on output 1T. Output is turned off when overload is detected. Resets at power down.
Operator Alerting System Response	Amber "IM Maintenance" Lamp No Buzzer Right Lamp Module Row 5, Column 3
Resulting Problem(s)	Hydraulic filter problems will not be indicated by the Pump Filter lamp.
Related Information	A laptop running "IM Realtime Data Monitor" software may be required to resolve this fault.

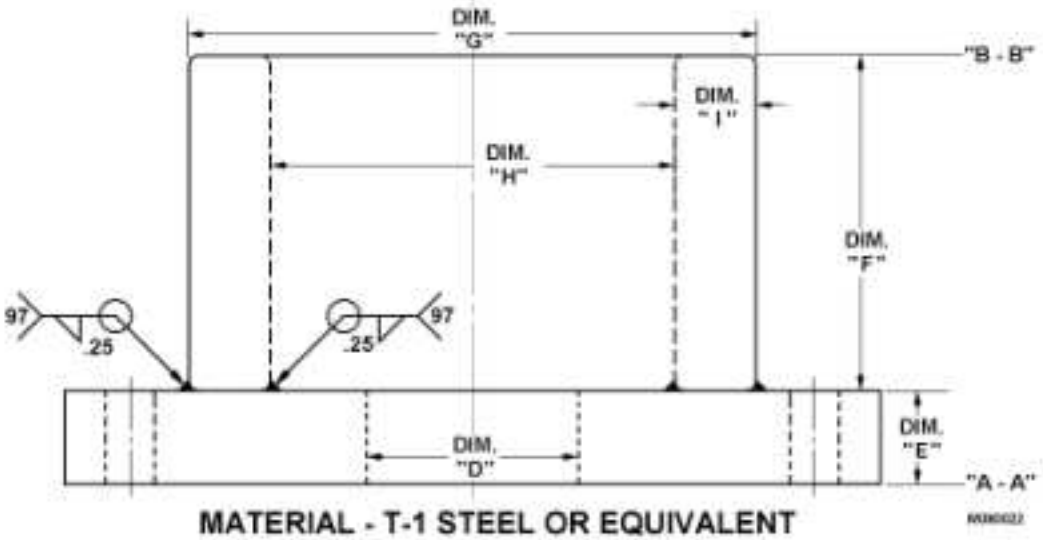
Table

1. This fault's logic contains more than one parameter, which may have additional fault code(s). This fault may be resolved by resolving the parameter(s) active fault code(s). Refer to the Troubleshooting Instructions for the active parameter fault(s).
2. If there are no active parameter fault codes, then based on the truck's setup while this fault is active, determine which of the parameters in the Table is not shown in its expected state on the IM Realtime Data Monitor program. Refer to the schematic to identify which item(s) may be causing the parameter(s) to be in the unexpected state. Troubleshoot these items.
3. If this fault is not currently active or if no parameters are currently in the unexpected state and the malfunction is still unresolved, then check each of the parameters in the Table for proper functionality. Troubleshoot all item(s) related to the parameter(s) which are found to be malfunctioning.

Parameter	Expected State and/or Related Fault(s)
Pump Filter Switches Lamp (IM1 T)	Status - Open Load: Unexpected. Troubleshoot Status - Normal: Expected Status - Shorted to Ground: Unexpected. Troubleshoot Status - Overload: Unexpected. Troubleshoot. 0: Lamp Off (IM output at B+) 1: Lamp On (IM output at ground)
IM Maintenance Lamp (IM1 X)	Status - Open Load: Unexpected. Troubleshoot Status - Normal: Expected Status - Shorted to Ground: Unexpected. Troubleshoot Status - Overload: Unexpected. Troubleshoot. 0: Lamp Off (IM output at B+) 1: Lamp On (IM output at ground) Fault(s): A363

MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800 Order the manual at mid-west-tech.com >





MATERIAL - T-1 STEEL OR EQUIVALENT

SPINDLE REMOVAL TOOL

Dimension "A" - Bolt Hole Diameter
Dimension "B" - Plate Outside Diameter
Dimension "C" - Bolt Circle Diameter
Dimension "D" - Plate Inside Diameter
Dimension "E" - Plate Thickness
Dimension "F" - Cylinder Height
Dimension "G" - Cylinder Outer Diameter
Dimension "H" - Cylinder Inner Diameter
Dimension "I" - Cylinder Wall Thickness

NOTE: Surface A-A must be parallel to surface B-B within 0.062 in. after welding.

MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800 Order the manual at mid-west-tech.com >

⚠CAUTION

Installing tubes incorrectly or in the wrong location can cause severe bends in the hose and possibly damage clamp channel welds.

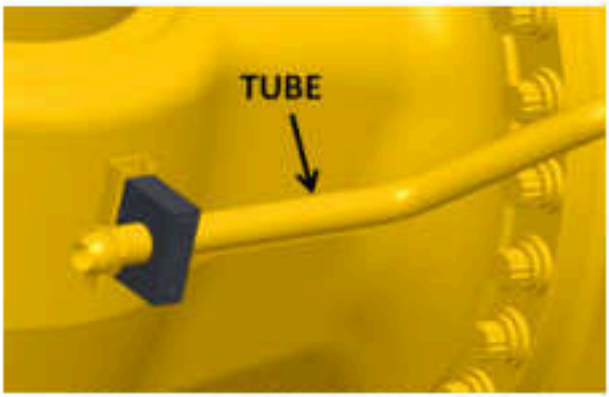


FIGURE 3-29. CLAMP LOCATIONS

7. Loosen clamp hardware and position each tube clamp near the top of the channel as shown in Figure 3-29.
8. Dimension X should be approximately 6.35 - 12.7mm (0.25 - 0.50in) as shown in Figure 3-30.

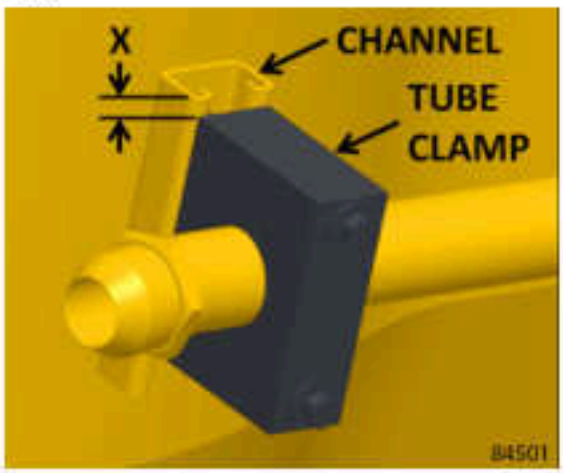


FIGURE 3-30. CLAMP POSITION

9. Tighten the clamp hardware to 10 - 12 N•m (8 - 9 ft lb).

⚠WARNING

Do not remove or service hoses while truck is running!

10. With tires in the straight position, install the brake cooling hoses. Refer to Figure 3 for correct part numbers for each location.

⚠CAUTION

Items that come in contact with the hose during operation can gouge or puncture the hose.

11. Check each hose for proper alignment. Each hose must not be kinked or twisted. Tighten each hose by holding the hose side of the fitting and turning only the fitting nut.



FIGURE 3-31. HOSE TIGHTENING

⚠CAUTION

If kinking or twisting is observed, loosen fittings and reposition hose and re-tighten. Twisting and/or kinking of the hose will lead to premature hose failure.

MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800 Order the manual at mid-west-tech.com >

4. Navigate the highlighted bar downward to the row named "Camera Switch" (Figure 33-17) using the minus button. Press the enter button to cause the setting for this row to become highlighted in green color. Use the plus button or the minus button as needed to cycle to option "4C" in the available settings. When "4C" is shown, select this option by pressing the enter button. Now the complete row should be highlighted in yellow and the text "4C" is shown as the selected option.

NOTE: The other options are also shown in Figure 33-17, and they are QUA, 2C, 3C AND OFF.



FIGURE 33-17.

5. Now Navigate the highlighted bar downward to the row named "Frontcam", then press the enter button. This will have a default setting screen similar to Figure 33-18. Set "Enable Frontcam" to OFF.

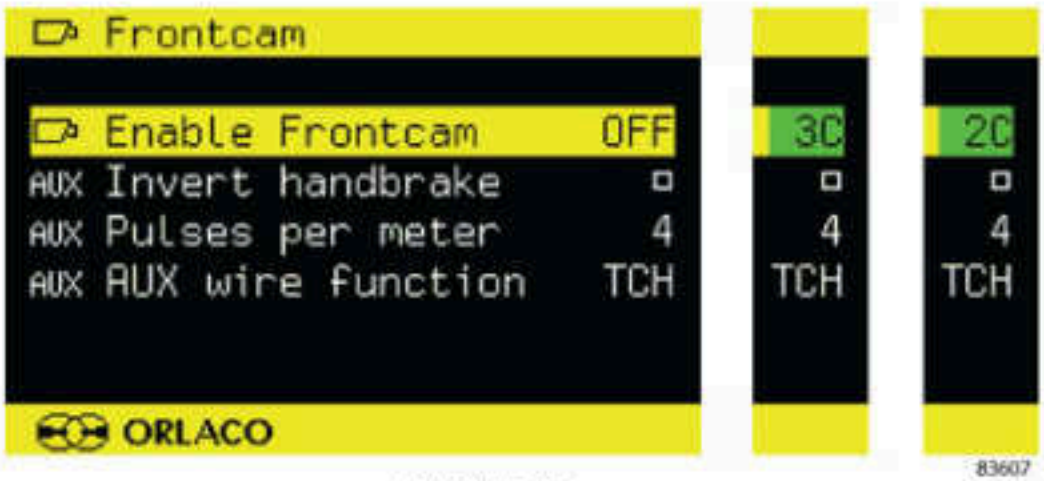
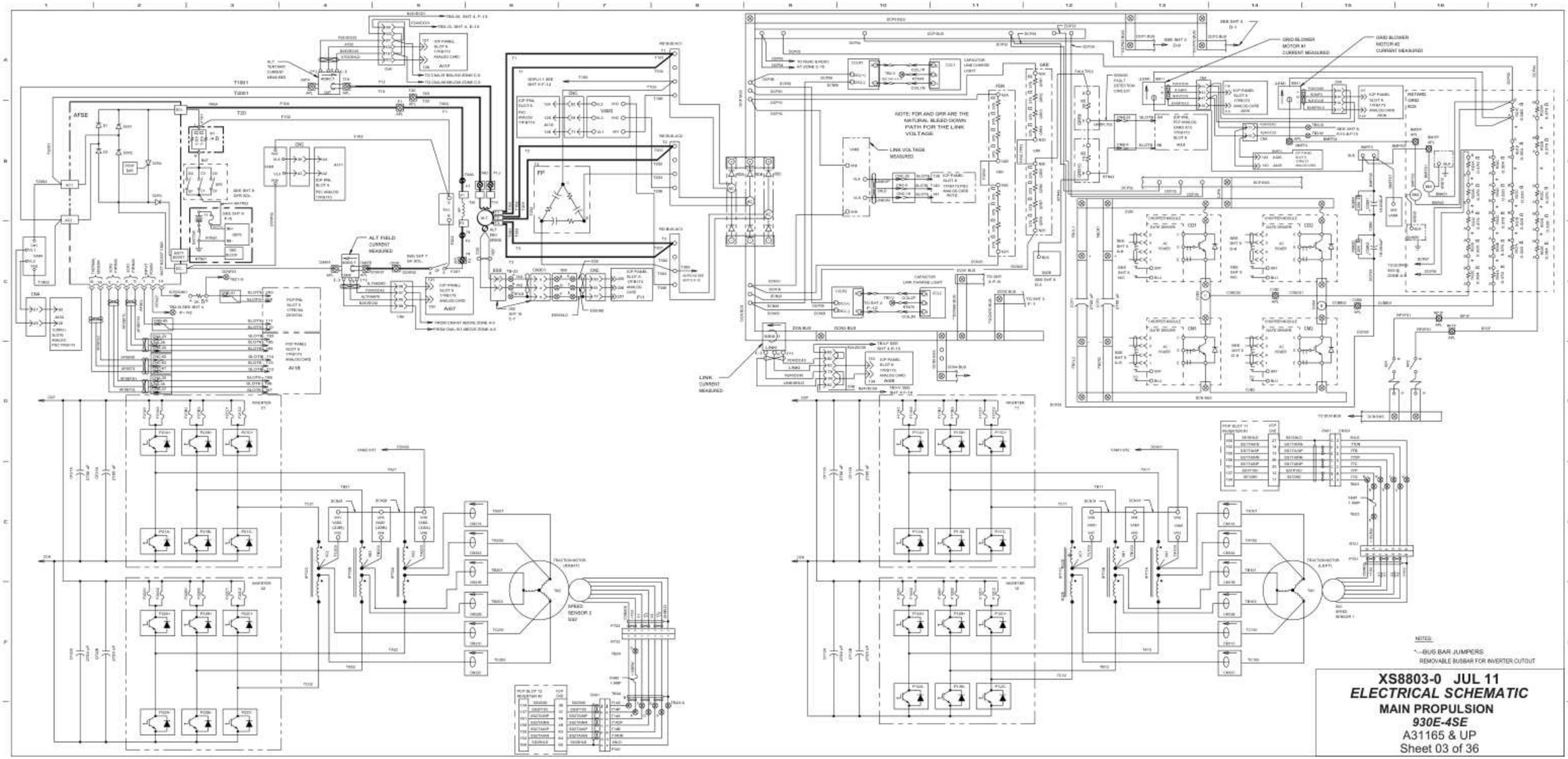


FIGURE 33-18.

MidWestTech | Komatsu 930E-4SE Dump Truck Service Manual | Publication CEBM029800 Order the manual at mid-west-tech.com >



XS8803-0 JUL 11

ELECTRICAL SCHEMATIC

MAIN PROPULSION

930E-4SE

A31165 & UP

Sheet 03 of 36

Order the manual at mid-west-tech.com >