

PARTS & SERVICE NEWS

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SUBJECT: REPLACEMENT MOM (MESSAGE for OPERATOR and MAINTENANCE) DISPLAYS (7818 92 2003) and MOM WIRING REWORK KIT (XK0025). ALSO PMC UPGRADES.

PURPOSE: To inform the field of additional parts that are required when replacing the MOM Display.

APPLICATION: Komatsu Dump Trucks:
530M: A30001 through A30038
HD1500: A30045 & A30046

FAILURE CODE: DPAOMA

DESCRIPTION:

When replacement MOM display units (7818-92-2003) are installed in the 530M and HD1500 trucks listed above, the MOM Wiring Rework Kit (XK0025) must also be ordered and installed.

NOTE: On HD1500 trucks serial range A30039 thru A30044, new PMC controller 7818-93-1004 must also be installed if not done previously.

HD1500 trucks with serial numbers A30047 and 01 were manufactured with the new MOM w/ polyswitch part number (7818-92-2003) and with the components included in kit (XK0025).

The MOM Wiring Rework Kit part number (XK0025) makes several improvements to the 24 Volt electrical system on the truck. These improvements also increase the performance and reliability of the MOM Display unit.

Kit (XK0025) includes a DC-DC Converter (1, Figure 1) to be mounted in the overhead panel behind the MOM Display unit. The converter filters transient voltage spikes and maintains 24 Volts supply power to the MOM display unit.

A 0.5 ampere circuit breaker (5, Figure 1) is also added to the truck to protect the wiring in the unlikely event that an internal failure in the MOM display unit would occur. The circuit breaker is installed in the overhead panel next to the MOM display and the button protrudes through the panel. If the circuit breaker is ever tripped, it will generate the fault of "Inclination Angle High". This fault is normally only triggered when the body is raised during dumping and the side-to-side truck angle is excessive. If this fault is logged in the event recorder, but the body was down at the time, it is likely that this circuit breaker was tripped. When this fault is triggered (regardless of the reason), the respective light in the Left Hand Pod of the main instrument panel will illuminate, the "Caution light" will blink and the alarm will sound.

The kit also adds several chassis grounding cables which are intended to prevent potential electrical buildups within the chassis and deck structures.

An electrical noise/surge suppressor is also added to the truck on the circuit that supplies current to the air conditioning compressor clutch. This reduces electrical impulse noise which occurs every time the coil in the clutch is de-energized.

Included in kit (XK0025) are three rework drawings and all the required parts to complete the rework.

If a new MOM is ordered to replace a failed unit, refer to Table 1 below for any additional items that may be required for a particular truck serial number.

TABLE 1. MOM & PMC MAINTENANCE REQUIREMENTS	
SERIAL NUMBERS	CORRECTIVE ACTION IF MOM FAILS
A30001 - A30038	Install new MOM w/Polyswitch (7818-92-2003) Install MOM Rework Kit (XK0025) No PMC change required (1)
A30045 - A30046	Install new MOM w/Polyswitch (7818-92-2003) Install MOM Rework Kit (XK0025) Install PMC Upgrade (7818-93-1004) (2)
A30047 - & UP	Install new MOM w/Polyswitch (7818-92-2003) No MOM Rework Kit required No PMC change required

- (1) Can still operate 530Ms with PMC part numbers 7818-93-1000, 7818-93-1001, 7818-93-1002 or 7818-93-1003. Upgrade to 7818-93-1004 is optional.
- (2) A PMC upgrade to 7818-93-1004 is required to communicate with the QSK 45 or SDA12V160 engines.

CONTENTS OF MOM WIRING KIT (XK0025)		
Quantity	Part Number	Description
2	0157100609	SEAT
9	0157101016	SEAT
1	CH4142	CABLE STR. #8 GAUGE, BLACK
1	CH4312	CABLE STR 1/0 BATTERY BLACK
1	EJ6472	HARNESS AC SUPPRESSION
1	EJ6474	HARNESS AC SUPPRESSION
1	EJ6475	HARNESS MOM CONVERTER
1	EJ7233	DRAWING, KIT MOM WIRING MODIFICATION
1	EJ7236	SCHEMATIC ELECTRIC, 24 VOLT, HD1500-5
1	EJ7239	DRAWING, MOM WIRING
1	EJ8001	DRAWING, MOM WIRING
1	EJ8002	CONDULET, SINGLE GANG REWORK
1	EJ8004	DRAWING, HOOKUP LIGHT CONTROL WIRING
2	MM0019	CAPSCREW M6 X 1.00 X 16
10	MM0036	CAPSCREW M10 X 1.50 X 20
4	MM0326	MACHINE SCREW M3 X 0.5 X 6 PAN HEAD
10	MM0461	FLAT WASHER M10
10	MM0471	LOCKWASHER M10
2	MM0711	FLATWASHER M6 HARDENED
1	PB4255	SUPPRESS MODULE
1	PB9403	CONVERTER, AC-DC
1	PB9405	CONNECTOR
2	PB9515	CLIP, FEEDING
1	PC1117	CIRCUIT BREAKER, POPPET 500 MA
1	PC1120	COVER, CONDULET
4	SH7597	CAPSCREW 0.250-20 X 0.5"
1	SM3182	RELAY
6	SP2417	FLATWASHER 0.250
2	TI1740	INSULATOR, STAND OFF
4	VN5153	WIRE STRUCTURE
4	VN9764	FLATWASHER #6
1	VZ2685	CORD GRIP, STRAIGHT STYLE
2	WB0683	TERMINAL RECEPTICLE, 16-14 AWG
2	WB0684	TERMINAL RECEPTICLE, 12-10 AWG

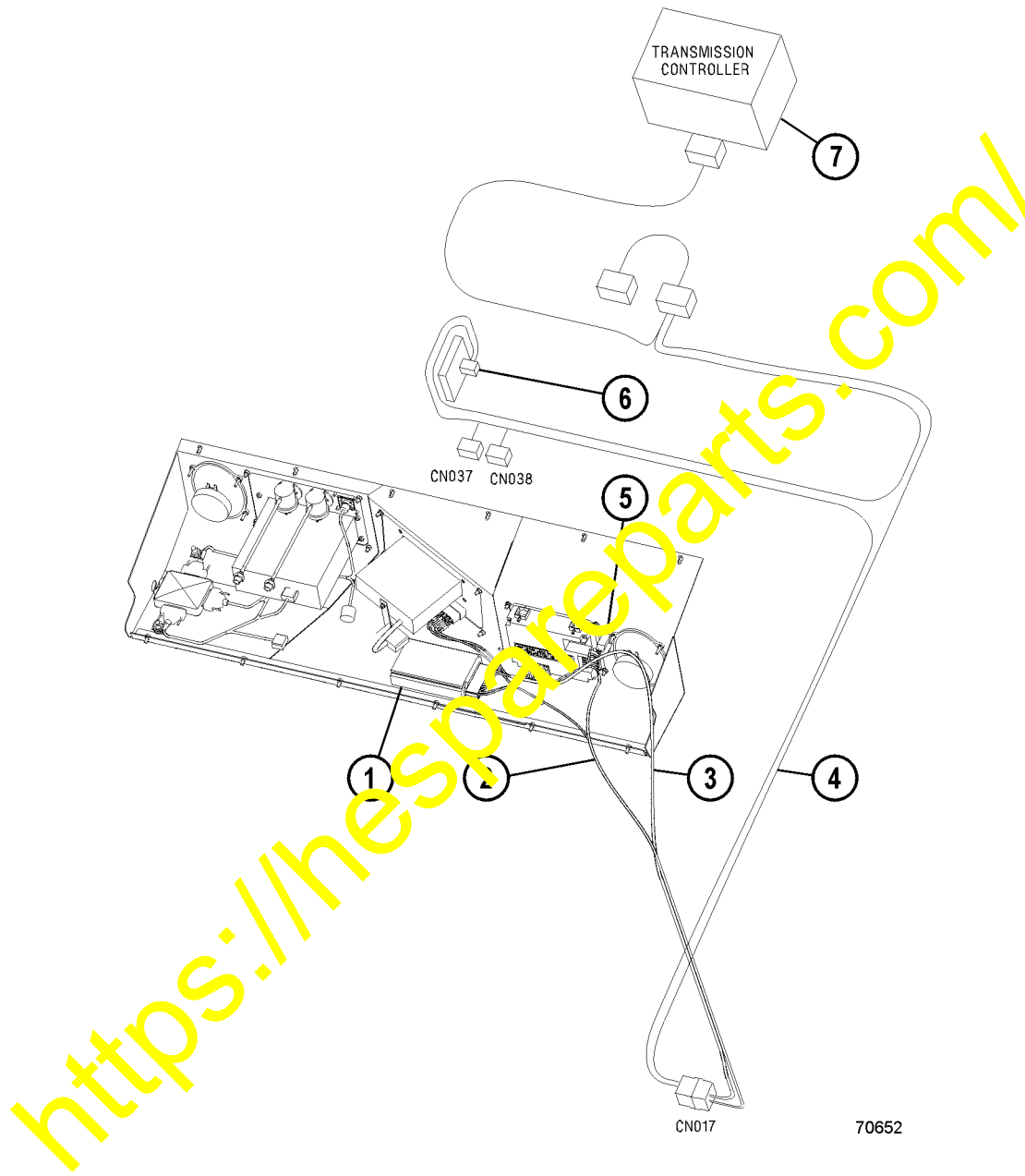
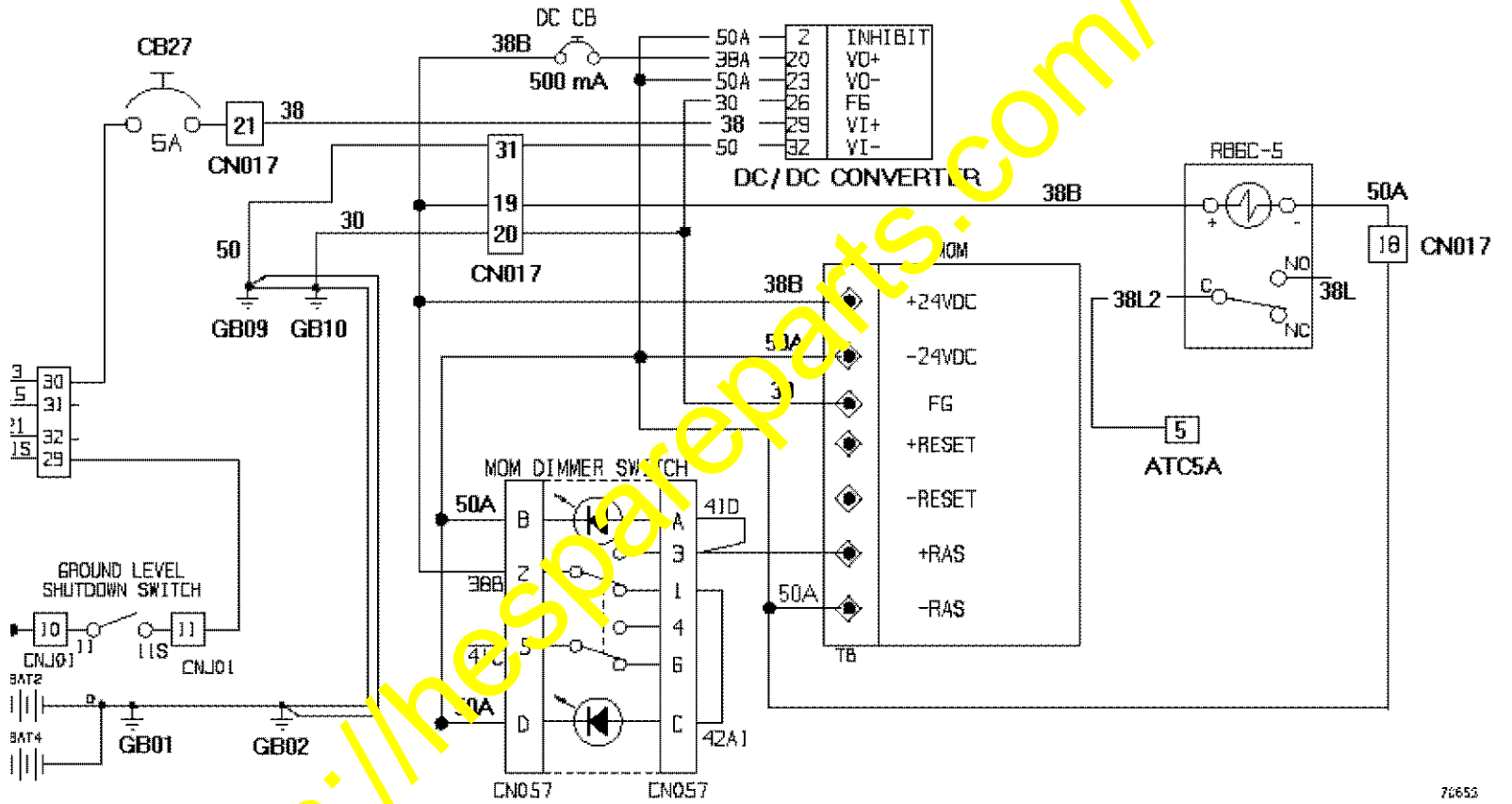


FIGURE 1. CAB REWORK

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|---------------------|----------------------------|
| 1. Converter, DC-DC | 5. Circuit Breaker |
| 2. Existing Harness | 6. Relay, SM3189 |
| 3. Harness, EJ6475 | 7. Transmission Controller |
| 4. Harness, EJ6472 | |

FIGURE 2. MOM WIRING SCHEMATIC AFTER REWORK



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