

SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE:	2-24-20	011		BUL	LETIN NO:	11-002
TITLE:	IN-LIN	E FUSE REPLAC	EMENT			
RATING:		DIRECTIVE (Action Is Req	uired)	ALE (Pote	RT ential Problem)	
	X	INFORMATIO (Action Is Option			DOUCT IMPROVEM nance Product)	ENT
PRODUCT S	SERIES /	MODEL: All 6700	S Tampers Ma	nufactur	ed 1997 - 2003	
SERIAL NO			153090 - 15308	85, 1531	91 - 153002, 15296 09 - 153120, 153143	
		152755 - 152763, 153127 - 153129	152903 - 1529	11, 1529	82 - 152990, 15306	0 - 153068,
		152747 - 152753, 152976, 152977,	. 152773 - 1527 153032 - 15304 153122, 153124	797, 1528 46, 1530 4 - 15313	33 - 152735, 152742 399, 152900, 152953 71 - 153079, 153083 33, 153174 - 153176 21, 153222	3 - 152962, 8 - 153090,
SUMMARY:	_	•	•		is installed in the end	-

which provided the main electrical feed to the cab. In 2004, this fuse was replaced by a 60 amp resettable circuit breaker and relocated to an area that

was more accessible for maintenance.

OPERATIONAL IMPACT: The in-line fuse location was not conducive to maintenance and the

location was also prone to oil baths which coated the fuse and associated wiring.

ACTION: Harsco Rail Conversion Kit # 5005744 is available which provides parts and

instructions for replacing the in-line fuse with a circuit breaker and moving it to a

location that provides better maintenance access.

CONTACT: If you have any questions or if we can be of any service, please contact:

> Eugene L Russell Harsco Rail Service Department

Ludington, MI Facility Columbia, SC Facility

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SAFETY INFORMATION



■ FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE MACHINE FROM ENERGY SOURCES. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.

CONVERSION KIT INSTALLATION - See Drawing # 5005744

- 1. Battery disconnect switch should be in the OFF position.
- 2. Disconnect the Positive terminal from the battery to ensure there is no live voltage present.
- 3. Locate an area at the right front of the engine shroud to mount the circuit breaker pad.
 - a. This can be welded in place, or bolted on using the two 1/4" mounting holes (See Figure 1 on Drawing).
- 4. Install the circuit breaker to the pad.
- 5. Locate the Fuse Block in the engine compartment on the right side frame member (See Figure 2 on Drawing).
- 6. Remove the two #324A wires from the fuse block.
 - a. One #324A wire goes to the Hydraulic Tank Fill Solenoid SOL3552.
 - b. Thoroughly inspect the insulation on this wire. If the insulation is deteriorated in any way (crumbly, spongy, etc.), replace the wire.
 - c. Route this wire from the solenoid to the Circuit Breaker and connect to the AUX terminal. Label as Wire #324A.
 - d. The other #324A wire provides the main voltage feed into the cab.
 - e. Thoroughly inspect the insulation on this wire as it is to be re-used. If the insulation is deteriorated in any way (crumbly, spongy, etc.), cut off the failed portion of the wire and butt splice on a new section of #8 wire (use butt connector and heat shrink tubing).
 - f. Route this wire to the Circuit Breaker and connect to the AUX terminal. Label as Wire #324A.
- 7. Locate Wire #301A running from the Fuse Block to the E-Pump solenoid.
 - a. Remove this wire and discard.
 - b. Install a #8 wire from the E-Pump solenoid to the Circuit Breaker and connect to the BAT terminal.
 - c. Label as Wire #301A.

CONVERSION KIT INSTALLATION - See Drawing # 5005744

- 8. Check to make sure there are no more wires terminated to the Fuse Block.
 - a. Wires that remain need to be removed from the Fuse Block and routed to the Circuit Breaker for connection.
 - b. Inspect the insulation of the wire before connection and replace if necessary.
 - c. Make sure the connection is on the correct terminal of the Circuit Breaker.
- 9. Install the plexiglas cover onto the circuit breaker pad.
- 10. Re-connect the Positive terminal of the battery.
- 11. Turn the battery disconnect switch to the ON position.
- 12. Verify all electrical circuits are functional.

CONVERSION KIT PARTS LIST - See Drawing # 5005744

ITEM	PART NO	DESCRIPTION	QTY
	5006252	CONVERSION KIT	1
10	5005585	Circuit Breaker, Mounting Plate	1
20	2011507	Circuit Breaker, 60 AMP	
30	2013183	Hex Standoff - #10-32 x 5/16"	4
40	5005718	Circuit Breaker Cover	
50	250046-210	Screw - Machine, Pan Head, #10-32 x 3/8"	4
60	150968-7	Washer - Star, Internal Tooth, #10	4
70	150973-2	Washer - Plain, 1/4"	2
80	250010-3	Screw - Hex Head Cap, 1/4"-20 x 3/4"	2
90	254473-1	600V Butt Connector, Short	
100	2557	Terminal - Ring #8 AWG 1/4" Stud	6
110	6104	Terminal - Ring #8 AWG 5/16" Stud	
120	155708-1	Terminal - Ring #8 AWG 3/8" Stud	
130	350545-6	Wire - 8 AWG 600V, Poly-Rad XT	30
140	151655-1	Heat Shrink Tube w/ Sealant 3/8" x 1/8" ID	1
150	5002404	Hard Copy Of Drawing And Bill Of Material	1
160	5006252	Wire Markers For 50005744	1

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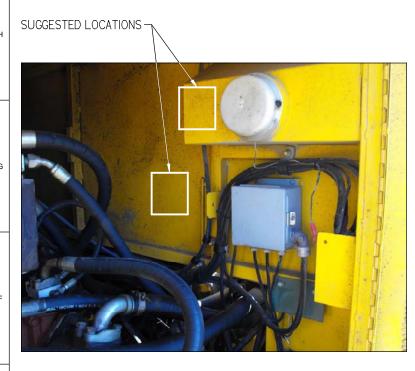


FIG I. SUGGESTED LOCATION FOR CIRCUIT BREAKER MOUNTING



FIG 2. EXISTING FUSE BLOCK

IN-LINE FUSE CONVERSION

MAKE IT SAFE

- 1. Battery disconnect switch should be in the OFF position
- 2. Disconnect the Positive terminal from the battery to ensure there is no live voltage present.

INSTALL THE CIRCUIT BREAKER

- 3. Locate an area at the right front of the engine shroud to mount the circuit breaker pad.
 - a. This can be welded in place, or bolted on using the two ¼" mounting holes (See Fig 1).
- 4. Install the circuit breaker to the pad.

WIRE IT UP

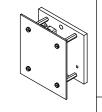
- 5. Locate the Fuse Block in the engine compartment on the right side frame member (See Fig 2).
- 6. Remove the two # 324A wires from the fuse block.
 - a. One wire goes to the Hydraulic Tank Fill Solenoid SOL3552.
 - b. Inspect the insulation on this wire. If the insulation is crumbly or spongy, replace the wire.
 - c. Route the wire from the solenoid to the circuit Breaker and terminate at the AUX connection. Label as Wire # 324A.
 - d. The other 324A wire provides the main voltage feed into the cab.
 - e. Thoroughly inspect the insulation on this wire as it is to be re-used.
 - i. If the insulation on the wire is crumbly or spongy, cut off the failed portion of the wire and butt splice on a new section of #8 wire (use butt connector and heat shrink tubing).
 - f. Route this wire to the Circuit Breaker, label as Wire # 324A, terminate to AUX terminal.
- 7. Locate Wire # 301A running from the Fuse Block to the E-Pump solenoid.
 - a. Remove this wire and discard.
 - b. Install a #8 wire from the E-Pump solenoid to the Circuit Breaker BAT terminal.
 - c. Label as Wire # 301A.
- 8. Check to make sure there are no more wires terminated to the Fuse Block.
 - a. Wires that remain need to be removed from the Fuse Block and routed to the Circuit Breaker for termination.
 - b. Inspect the insulation of the wire before termination and replace if necessary.
 - c. Make sure the connection is on the correct terminal of the Circuit Breaker.

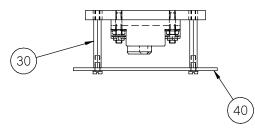
FINISH IT UP

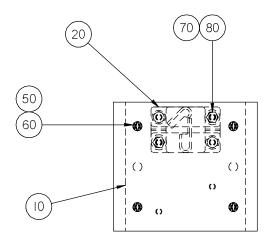
- 9. Install the plexiglass cover onto the circuit breaker pad.
- 10. Re-connect the Positive terminal of the battery.

Item Number	Document Number	Quantity	Title
10	5005585	I	CIRCUIT BREAKER, MTG PLATE
20	2011507	I	CIRCUIT BREAKER, 60 AMP
30	2013183	4	.31 HEX STANDOFF- #10-32
40	5005718	I	CIRCUIT BREAKER COVER
50	250046-210	4	SCREW-MACH, PAN HD, #10-32 X .38 LG
60	150968-7	4	WASHER- STAR, INT TOOTH, #10
70	150973-2	2	WASHER- PLAIN, .25
80	250010-3	2	SCREW-HHC, .25-20 X .75 LG
90	254473-I	3	600V BUTT CONN. SHORT
100	2557	6	TERMMINAL-RING #8 AWG .25 STUD
110	6104	6	TERMINAL-RING #8 AWG .31 STUD
120	155708-1	2	TERMINAL-RING #8 AWG .37 STUD
130	350545-6	30	WIRE-8 AWG, 600V, POLYRAD XT
140	151655-1	I	HEAT SHRINK TUBE W/SEALANT .3712 ID
150	5002404	I	HARD COPY OF DRAWING AND BOM
160	5006252	I	WIRE MARKERS FOR 50005744

NOT SHOWN 90 100 110 120 130 140 150 160







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