

Harsco Track Technologies

Harsco

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SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT											
DATE:	4-18-2006	BULLETIN NO:	06-004								
TITLE:	SOLID STATE STARTER RELAY I	SSUES AND CONVERSION GROUP									
RATING:	DIRECTIVE (Action Is Required)	X ALERT (Potential Problem)									
	INFORMATION (Action Is Optional)	PRODUCT IMPROVEMENT (Enhance Product)									
PRODUCT SE	ERIES / MODEL: 6700S or J Tamp	pers with or without Jupiter									
SERIAL NO:	Models #153245 through #153388										
SUMMARY:	Starter Relay, part #2004579. Upor manufacturer had made a change t	e rate occurring on the existing Solid Sol	ngine nis								
	•	the existing solid state starter relay wi									

at startup. Also, at the request of the engine manufacturer, the wiring for the fuel solenoid is being put on its own relay as part of this conversion.

OPERATIONAL IMPACT: To improve machine reliability.

ACTION: Follow the Instructions in this Bulletin to install the new Starter Relay

> Conversion Group. The bracket that is used to mount the existing solid state starter relay must be reworked to install the two new mechanical relays.

CONTACT: To order the Starter Relay Conversion Group #2012060, contact the Parts

> Department at the Ludington, MI. facility, (231) 843-3431. If you have any technical questions, please contact Eugene Russell or Joe Lokovich at the

Ludington, MI. facility (231) 843-3431.

SAFETY INFORMATION



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

CONVERSION GROUP INSTALLATION INSTRUCTIONS

- See Drawing 2012060 Sheet #1 and Sheet #2
- 1. Locate the existing solid state starter relay mounted on the side of the pump drive on the rear of the engine.
- 2. Disconnect the wires from the existing solid state starter relay per the instructions on Drawing #2012060 Sheet #1.

Note: Be sure to note wire numbers before disconnecting for proper re-assembly.

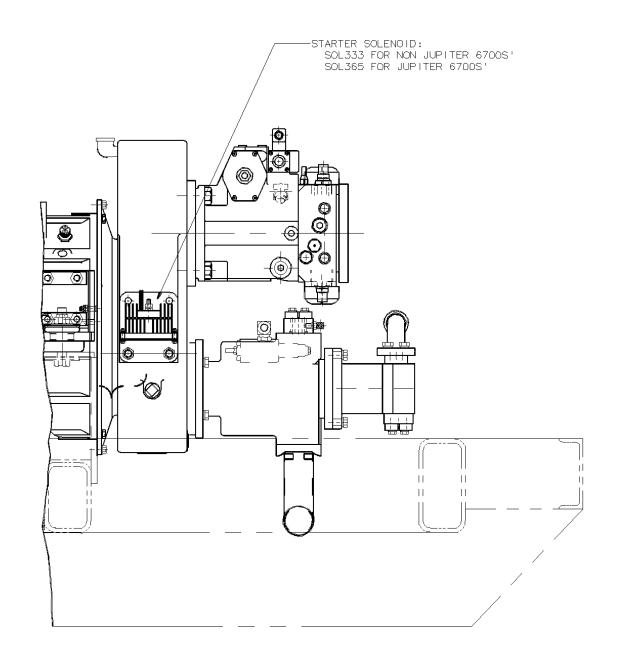
- 3. Remove the existing solid state relay from the mounting bracket and discard; it will not re-used.
- 4. Remove the existing mounting bracket from the side of the pump drive. Rework the existing mounting bracket by drilling four 17/64 inch holes in it per the dimensions shown on Drawing #2012060 Sheet #1.
- 5. Install the new mechanical relays (1) and lord mounts w/ studs (2) to the reworked mounting bracket using the provided 1/4 inch flat washers (3), lock washers (4) and hex nuts (5) as shown on Drawing #2012060 Sheet #2.
- 6. Install the reworked mounting bracket and mechanical relays to the side of the pump drive re-using the existing mounting bolts as shown on Drawing #2012060 Sheet #2.
- 7. Connect the wires to the new mechanical relays (1) per the instructions on Drawing #2012060 Sheet #2 using the provided wire (7) and terminals (6, 9, 10 & 11).
- 8. Be sure to label the new relays and wires with their appropriate numbers as shown on Drawing #2012060 Sheet #2 using the provided labels (12).
- 9. Start the engine to check for proper operation.

#2012060 CONVERSION GROUP PARTS LIST - See Drawing 2012060 Sheet #2

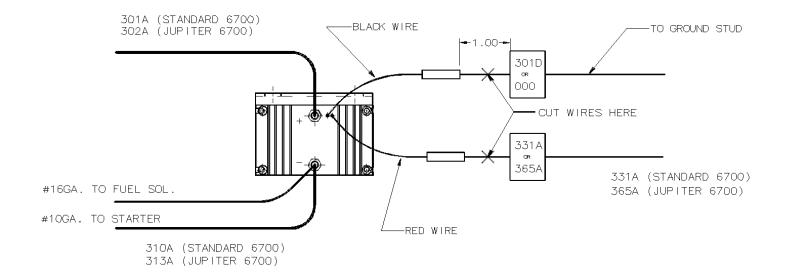
ITEM	PART NO	DESCRIPTION	QTY
1	2012062	Relay, 100 A	2
2	154571-2	Lord Mount w/ Studs	4
3	150973-2	Washer- Plain, 1/4"	8
4	150988-9	Washer- Lock, 1/4"	8
5	150965-17	Nut- Grade 5 Hex, 1/4"-20	8
6	5854	Terminal	6
7	251742-1	Wire - 600 V, #16 AWG Black x 24 Inches	1
8	157311-3	Butt Splice, Heat Shrink	
9	5757	Terminal	
10	2012094	Terminal Insulator	2
11	2012093	Terminal Insulator	2
12	2012115	2012060 Wire Labels	1
13	2012060-DWG	Drawing / Bill of Material	1

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CADAM DRAWING

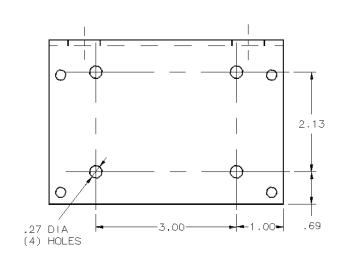


SOLID STATE RELAY REMOVAL REMOVING THE WIRING:

- INSURE THAT THE BATTERY SWITCH IS TURNED OFF.
- LABEL THE CONTROL WIRES 301D AND 331A (OR 000 AND 365A FOR JUPITER 6700S') JUST ABOVE THE ORIGINAL BUTT SPLICES. SEE DIAGRAM.
- CUT THE CONTROL WIRES BETWEEN THE LABEL AND THE ORIGINAL BUTT SPLICES.
- REMOVE THE #10GA. WIRE, 301A (302A FOR JUPITER 6700S') FROM THE (+) TERMINAL OF THE SOLID STATE RELAY.
- REMOVE BOTH THE #10GA. AND #16GA. WIRES, 310A (313A FOR JUPITER 6700S') FROM THE (-) TERMINAL OF THE SOLID STATE RELAY.

REMOVING THE RELAY:

- REMOVE THE 2 BOLTS ATTACHING THE RELAY BRACKET TO THE PUMP DRIVE.
- REMOVE THE RELAY AND SHOCK MOUNTS FROM THE BRACKET AND DISCARD THEM,
- REWORK THE BRACKET AS SHOWN BELOW.



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