



Harsco Track Technologies

Harsco

www.harscotrack.com

SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 11-5-2001 **BULLETIN NO:** 01-015

TITLE: 2004591 SOLID STATE STARTER SOLENOID CONVERSION GROUP

RATING:

<input type="checkbox"/>	DIRECTIVE (Action Is Required)	<input type="checkbox"/>	ALERT (Potential Problem)
<input checked="" type="checkbox"/>	INFORMATION (Action Is Optional)	<input type="checkbox"/>	PRODUCT IMPROVEMENT (Enhance Product)

PRODUCT SERIES / MODEL: 6700S TAMPERS

SERIAL NO: All Models SN 152700 and Higher

SUMMARY: Replace the existing electro-mechanical starter solenoid with a new electronic solid state starter solenoid.

OPERATIONAL IMPACT: To improve reliability of the engine starter solenoid.

ACTION: The installation of this Starter Conversion Group requires:

- Disconnecting wires from existing starter solenoid.
- Removing existing starter solenoid and mounting bracket.
- Installing new mounting bracket and starter solenoid.
- Reconnecting wires to new starter solenoid.

CONTACT: If you have any questions or if we can be of any service, please contact Jim Merritt at the Ludington, MI. facility, (231) 843-3431.

SAFETY INFORMATION

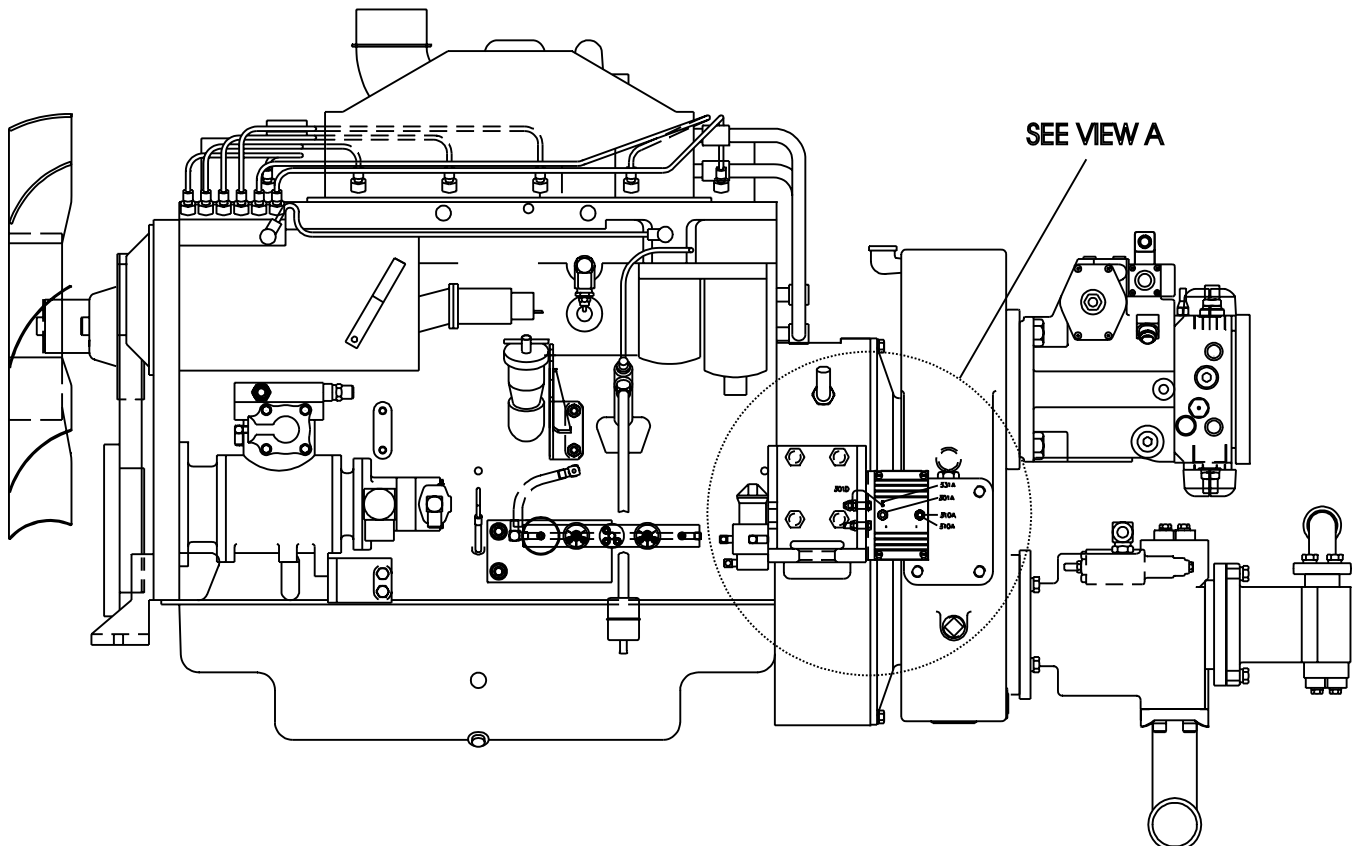
- FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE ALL ENERGY SOURCES FROM MACHINE. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.

CONVERSION GROUP INSTALLATION - See Figure 1, Figure 2 and Figure 3

1. Shut off the master disconnect switch.
2. Locate the existing starter solenoid on the side of the engine.
3. Remove and discard the starter solenoid and mounting bracket. Save the bracket mounting hardware (screws, nuts, etc.), it will be re-used.
4. Install the new mounting bracket (2) re-using the saved mounting hardware (screws, nuts, etc.). Tighten all screws and nuts securely.

1004110-1

FIGURE 1

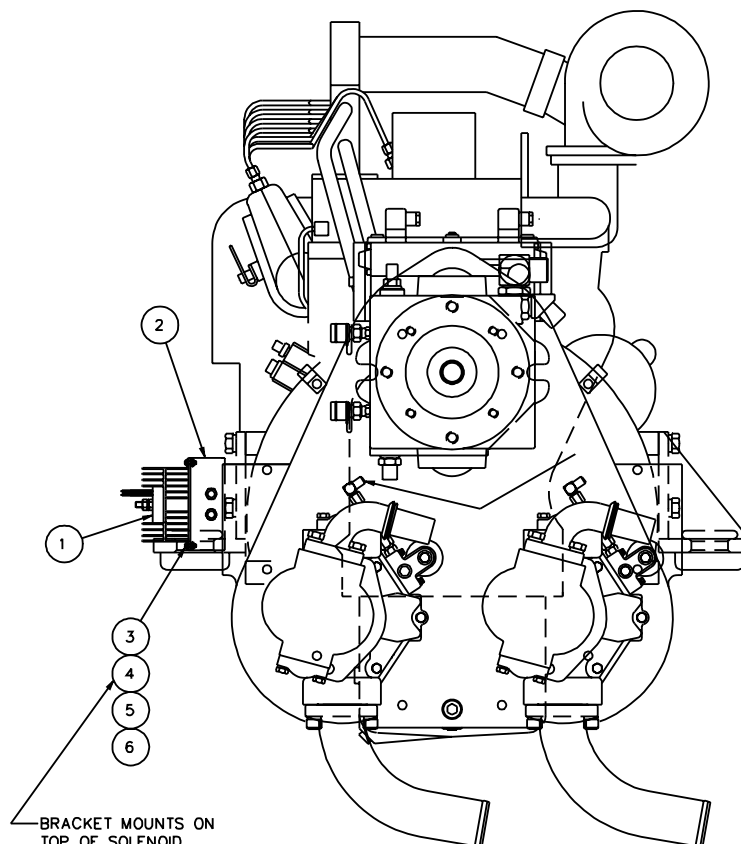


CONVERSION GROUP INSTALLATION - See Figure 1, Figure 2 and Figure 3

5. Install the new starter solenoid (1) to the new mounting bracket (2) using two brackets (4), four #10-32 x 1/2" machine screws (3), four #10 lock washers (5) and four #10-32 hex nuts (6). Tighten all screws and nuts securely.
6. Install the ring terminal (7) on the end of the black wire of the new starter solenoid (1). Attach the ring terminal (7) on the end of the black wire to one of the machine screws (3) used to install the new mounting bracket (2). Label the black wire #301D.
7. Attach the red wire of the new starter solenoid (1) to existing wire #331A using the butt splice connector (8).
8. Attach existing wire #301A to the positive (+) terminal of the new starter solenoid (1).
9. Attach both existing wires #310A to the negative (-) terminal of the new starter solenoid (1).
10. Turn on the master disconnect switch.
11. Attempt to start the engine to verify operation of the new starter solenoid.

1004110-2

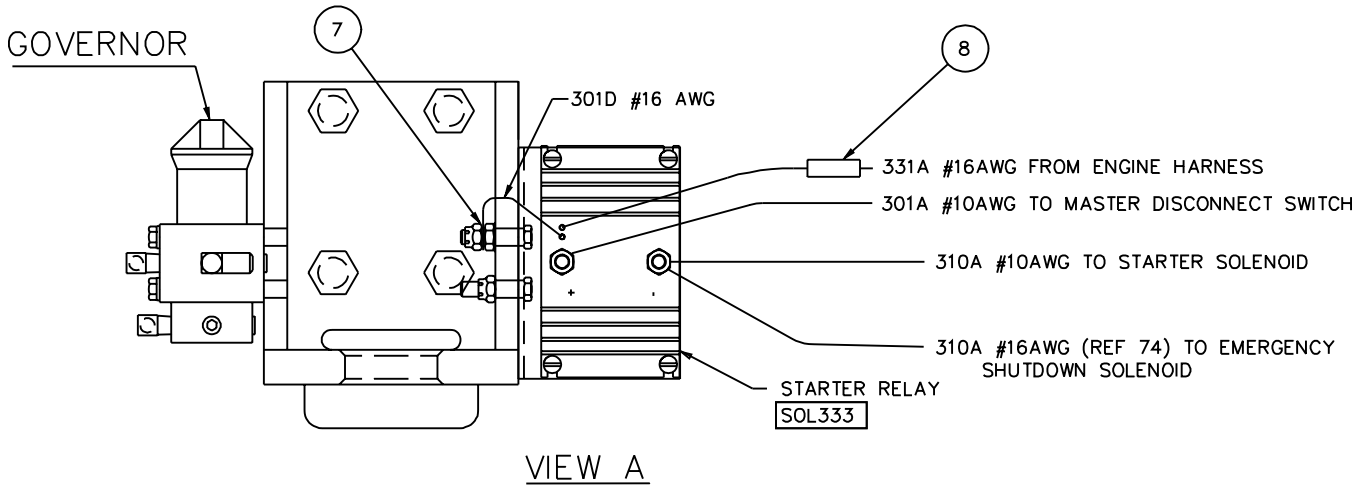
FIGURE 2



CONVERSION GROUP INSTALLATION

1004110-3

FIGURE 3



CONVERSION GROUP PARTS LIST - See Figure 2 and Figure 3

ITEM	PART NO	DESCRIPTION	QTY
	2004591	SOLID STATE STARTER SOLENOID GROUP.	1
1	2004579	Solenoid, Solid State.	1
2	2004580	Mounting Bracket, Solenoid	1
3	250048-212	Machine Screw, #10-32 x 1/2", Round Head	4
4	2004585	Bracket	2
5	150988-7	Lock Washer, #10 Regular	4
6	150965-14	Hex Nut, #10-32 Grade 5	4
7	156647-14	Ring Terminal	1
8	157311-3	Butt Splice Connector, Heat Shrink.	1
	2004591-DWG	Drawing / Bill of Material	1

© 2001 HARSCO TRACK TECHNOLOGIES, HARSCO CORPORATION

415 North Main Street
 Fairmont, MN
 56031-1837
 Tel: (507) 235-3361
 Fax: (507) 235-7370

2401 Edmund Road, Box 20
 Cayce-West Columbia, SC
 29171-0020
 Tel: (803) 822-9160
 Fax: (803) 822-7471

200 South Jackson Road
 Ludington, MI
 49431
 Tel: (231) 843-3431
 Fax: (231) 843-4830