



www.harscorail.com

SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 03-28-2017 **BULLETIN NO:** 17-002A

TITLE: 6700SJ2PD Sauer Drive Pump Replacement

RATING:

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

PRODUCT SERIES / MODEL: Model 6700S, 6700SJ1, 6700SJ2, 6700SJ2PD machines with 130cc Sauer Drive Pump (2013679).

SERIAL NO: See List at the end of Service Bulletin.

SUMMARY: Certain Model 6700 machines since 2007 use a 130cc Sauer Drive Pump, part number 2013679. In certain instances of when contamination is introduced, the machine could experience unintended movement. This pump is being obsoleted, and replaced with a new pump, part number 5072739. The new pump is a direct replacement. It has standard Ma and Mb Relief Cartridges versus the Multi-Function Reliefs in the existing pump. Internal changes in the new pump will also provide improved reliability.

OPERATIONAL IMPACT: No change in performance, or machine setup.

ACTION: Order the new Sauer pump (5072739) as necessary. If ordering the old pump part number (2013679) the new one will be sent in its place.

The Multi-Function valve cartridge (5015047) in the original pump will not work in the new pump.

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

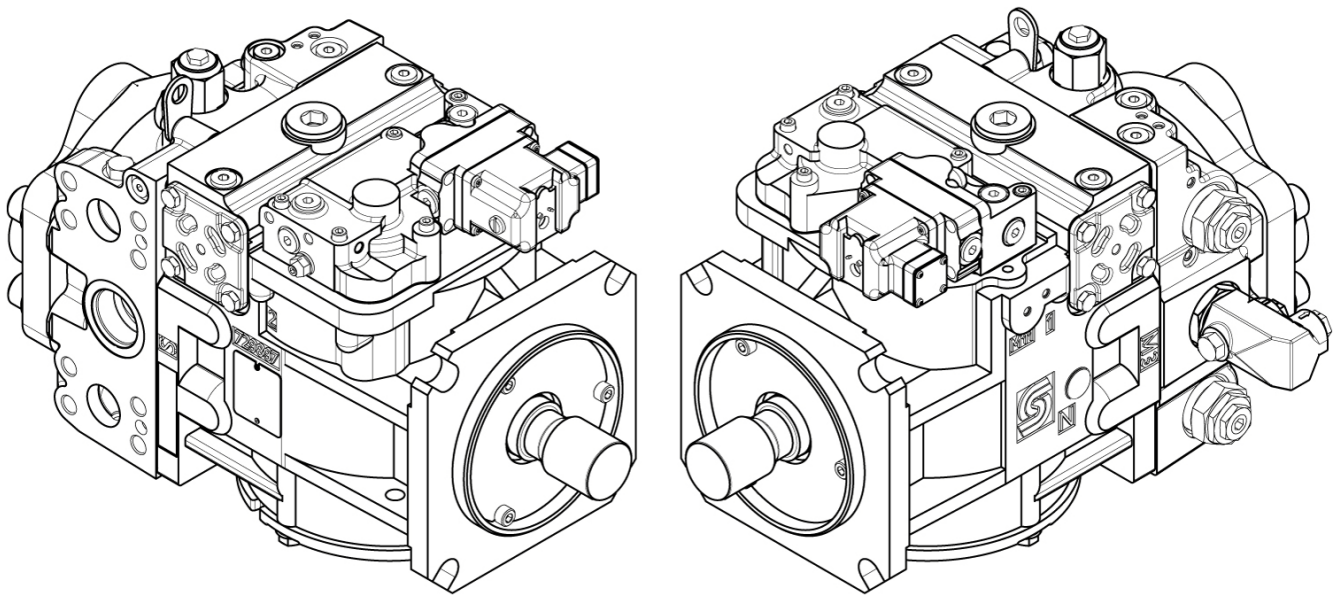
Harsco Rail Service Department
Ludington, Mi. Facility
(231) 843-7413

ORDERING SAUER DRIVE PUMP

1. Contact the Parts Department at Harsco Rail to order the Sauer Drive Pump (#5072739).

Important: Be able to provide the Machine Model and Serial number when ordering so it can be determined if the old pump (P/N 2013679) was originally installed on it.

Harsco Rail Parts Department
Ludington, Mi
1-800-800-6410

SAUER DRIVE PUMP #5072739

1. The Sauer Drive Pump includes the following service parts

ITEM	PART NO	DESCRIPTION
1	2015059	EDC Controller
2	5015046	Gasket, EDC Controller
3	5072740	Main Relief Valve
4	2015058	Seal Kit

SAFETY INFORMATION



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

SERVICE BULLETIN INSTRUCTIONS

Remember to follow these basic guidelines when changing the Hydraulic Pump.

1. Before removing old pump, clean off the pump and the area nearby, including all hose connections, to minimize the possibility of contamination getting into the hydraulic hoses when they are disconnected.
2. Once hoses are disconnected, cover the open hose ends to make sure no contamination can get into the hoses.
3. Cover the port openings of the removed pump to reduce contamination. This is especially important if the pump will be sent in for evaluation, reused, or rebuilt.
4. Keep all ports covered on the new pump until it is installed and ready for hoses to be reconnected.
5. Once the new pump is installed, follow all the pre-start procedures and set Drive Pump pressures per Section 6 of the Operator's Manual.

Note on hydraulic oil Cleanliness

The recommended maximum cleanliness level for the drive pump by the manufacture is 22/18/13, however, the Model 6700 has servo valves within the Jacking Circuit. Therefore, the machine Hydraulic System Cleanliness level must be maintained at or below 16/14/11 (pre-1999 ISO standard 2-digit value is 14/11). Per Section 5.10 of the Model 6700 Operator's Manual.

Operational reminder for extending the life of Drive Pump relief cartridges.

From the Safety Section of Operator's Manual.

1.13 SAFETY WHEN OPERATING THE MACHINE

When operating on grades, do not allow machine to over speed. Select proper gear speed before starting down slope.

A main cause of Relief Cartridge failure is fatigue from overheating. A root cause of overheating is extended periods of oil dumping over the reliefs, such as traveling down long grades in high gear with the Travel Joystick centered (or demanding a minimal displacement compared to the speed the machine is going). The extreme heat generation as the oil goes over the relief at maximum system pressure is enough to fatigue the relief spring over time as well as damage seals.

MACHINE SERIAL NUMBER LIST

Note: Over time, a pump may have been changed on a machine. Verify that the actual pump to be replaced is the 130cc Sauer (Harsco Rail Part No. 2013679) before ordering the replacement per this service bulletin.

Customer	Machine Type	Serial #	Customer Machine No.	Original Ship to, Customer Name
Progress Rail Equip Lease	6700S	153561	n/a	UP RR
Progress Rail Equip Lease	6700S	153560	n/a	UP RR
Progress Rail Equip Lease	6700S	153559	n/a	UP RR
UP RR	6700S	153566		UP RR
Progress Rail Equip Lease	6700S	153559	n/a	UP RR
UP RR	6700S	153567	ATS-0802	UP RR
UP RR	6700S	153571	ATS-0803	UP RR
UP RR	6700S	153609	ATS-0804	UP RR
UP RR	6700S	153641	ATS-1001	UP RR
UP RR	6700SJ	153642	ATS-1002	UP RR
UP RR	6700SJ	153643	ATS-1003	UP RR
UP RR	6700SJ	153654	ATS-1010	UP RR
UP RR	6700SJ	153655	ATS-1011	UP RR
RELAM	6700S	153684	n/a	RELAM Yard
FCM Rail	6700SJ2	153682	n/a	CSX
FCM Rail	6700 SJ2	153690		UP RR
Progress Rail Equip Lease	6700 SJ2	153692	n/a	PNR Railworks
RELAM	6700SJ2	153693	n/a	LA Colo LLC
RELAM	6700 SJ2	153689	n/a	Atlas RR Construction
RELAM	6700SJ2	153695	n/a	Railworks Track Services
RELAM	6700S	153688	n/a	Canadian Pacific Railway
FCM Rail	6700SJ2	153691		UP RR
RELAM	6700S	153696	n/a	Lake Superior & Ishpeming RR
RELAM	6700SJ2	153693	n/a	LA Colo LLC
Alaska RR	6700SJ2	153697	n/a	Alaska RR
Ferrocarrill Mexicano	6700SJ2	153698	n/a	Ferrocarrill Mexicano
Ferrocarrill Mexicano	6700SJ2	153699	n/a	Ferrocarrill Mexicano
RELAM	6700SJ2	153700	n/a	Hinkle Contracting
RELAM	6700S	153713	n/a	LA Colo LLC
FCM Rail	6700SJ2	153701	n/a	CSX

Customer	Machine Type	Serial #	Customer Machine No.	Original Ship to, Customer Name
RELAM	6700 SJ2	153702	n/a	BNSF
RELAM	6700SJ2	153704	n/a	Railworks Track Service
Southern Peru Copper Corp	6700SJ2	153708	n/a	Southern Peru Copper Corp
Alstom Transport Mexico	6700 SJ2	153703	n/a	Alstom Transport Mexico T&T
RELAM	6700SJ2	153705		BNSF
UP RR	6700SJ2	153715	ATS-1201	UP RR
UP RR	6700SJ2	153716	ATS-1202	UP RR
UP RR	6700SJ2	153717	ATS-1203	UP RR Miller Yard
UP RR	6700SJ2	153718	ATS-1204	UP RR Miller Yard
RELAM	6700SJ2	153729	n/a	Gonzalez & Sons Equip
Kansas City Southern	6700SJ2	153734	n/a	Kansas City Southern
RELAM	6700SJ2	153735	n/a	Burlington Northern RR
UP RR	6700SJ2PD	153778	ATS-1401	UP RR
UP RR	6700SJ2PD	153779	ATS-1402	UP RR
UP RR	6700SJ2PD	153780	ATS-1403	UP RR
UP RR	6700SJ2PD	153777	ATS-1404	UP RR
UP RR	Reman 6700	153062	ATS-0003 / ATS-xxxx	UP RR
UP RR	Reman 6700	153068	ATS-0009 / ATS-xxxx	UP RR
UP RR	6704 SJ2 PD UP	153805	ATS-1501	UP RR
UP RR	6704 SJ2 PD UP	153806	ATS-1502	UP RR
UP RR	6704 SJ2 PD UP	153807	ATS-1503	UP RR
UP RR	Conv 6700SJ2	153061	ATS-0002 / ATS-1607	UP RR
UP RR	Conv 6700SJ2	153066	ATS-0007 / ATS-1606	UP RR
UP RR	Conv 6700SJ2	153490	ATS-3490 / ATS-1608	UP RR
UP RR	Conv 6700SJ2	152907	ATS-9811 / ATS-xxxx	UP RR
UP RR	Conv 6700SJ2	152982	ATS-9901 / ATS-1610	UP RR

© 2017 HARSCO CORPORATION, ALL RIGHTS RESERVED

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) 843-1644

Printed In U.S.A.