

PARTS & SERVICE NEWS

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Page 1 of 4

SUBJECT: WHEEL BEARING MAINTENANCE CHECKS

PURPOSE: Amend recommended maintenance checks and provide information on adding magnetic plug to front wheel covers.

APPLICATION: Komatsu 930E Dump Trucks AFE48-A & up, A30019 & up

FAILURE CODE: 2A83Z9

DESCRIPTION: Disregard shop manual maintenance check on front wheel bearings and add magnetic plug to front wheel assembly.

The 930E-1 / 930E-2 operation and maintenance manuals and shop manuals list the following under the **5000 Hour Maintenance Checks** in the **Lubrication and Service** module: *FRONT WHEELS - Drain hydraulic oil and completely disassemble and check all parts for wear or damage. Refer to Section G for Disassembly and Assembly procedures. Refill with oil. Check the oil level at the hydraulic tank. Lube Key "B".*

The aforementioned maintenance check cannot be accomplished on the truck because of the oil cooled brakes. Performing the procedure would likely introduce new problems into a wheel assembly that was free of defect before the disassembly. Disregard this maintenance check. Operation and maintenance manuals and shop manuals will be changed to delete the 5000 hour maintenance check.

In addition, a wheel hub cover rework has been developed to add a magnetic plug (WB1199). The magnetic plug enables a check for the presence of any ferrous wear particles in the wheel hub area.

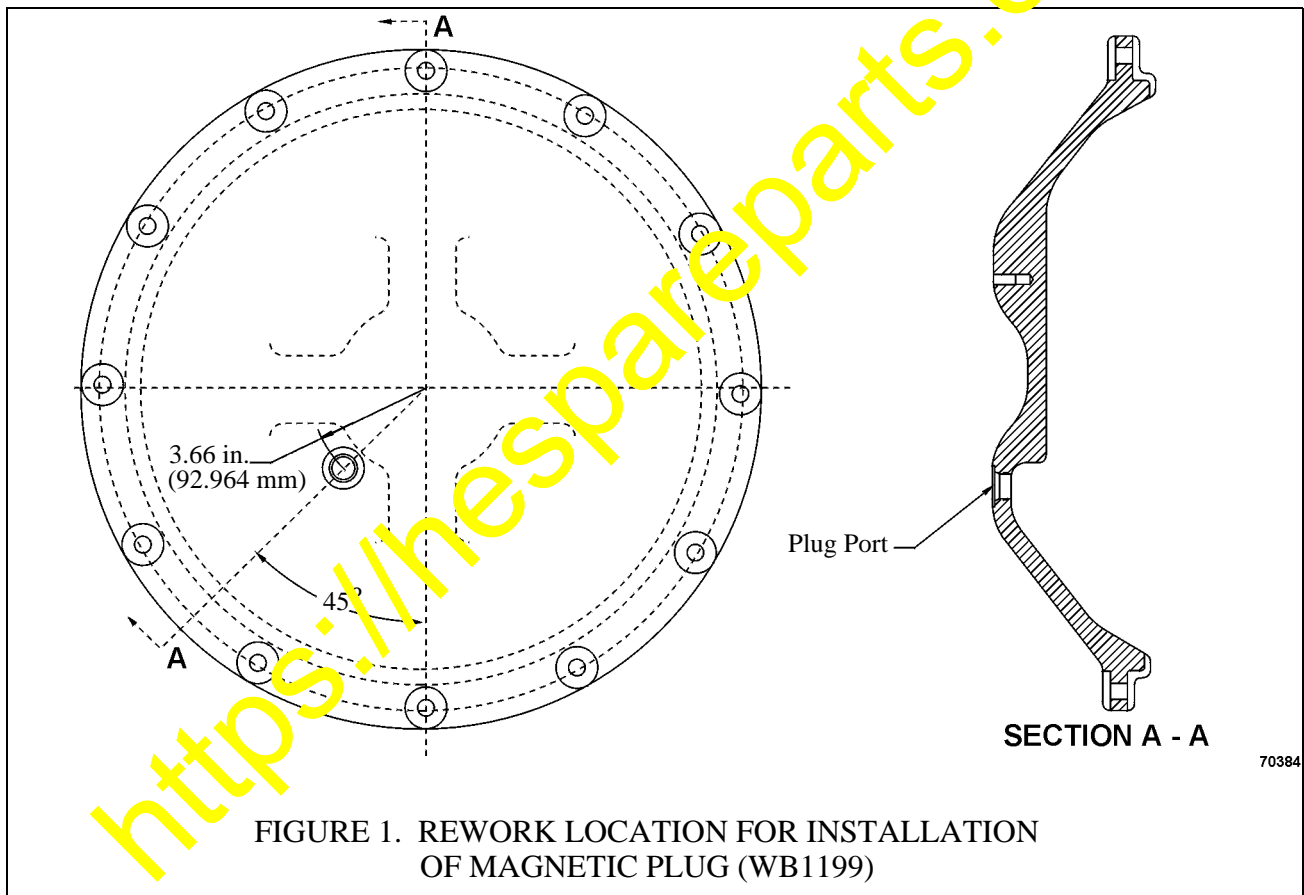
Reworked covers are available for the 930E-2. You may replace old cover (ED7697) with new cover (EH9522). EH9522 has already been machined for the addition of the magnetic plug. The magnetic plug is not, however, included with the cover. It must be ordered separately.

930E-1 covers must be reworked. There is no replacement cover available for these models.

WHEEL COVER REWORK SPECIFICATIONS

▲ IMPORTANT ▲

Use care in capturing all hydraulic oil during removal of the covers. Refer to the shop manual for the proper procedure for disassembly and assembly of front wheel components.



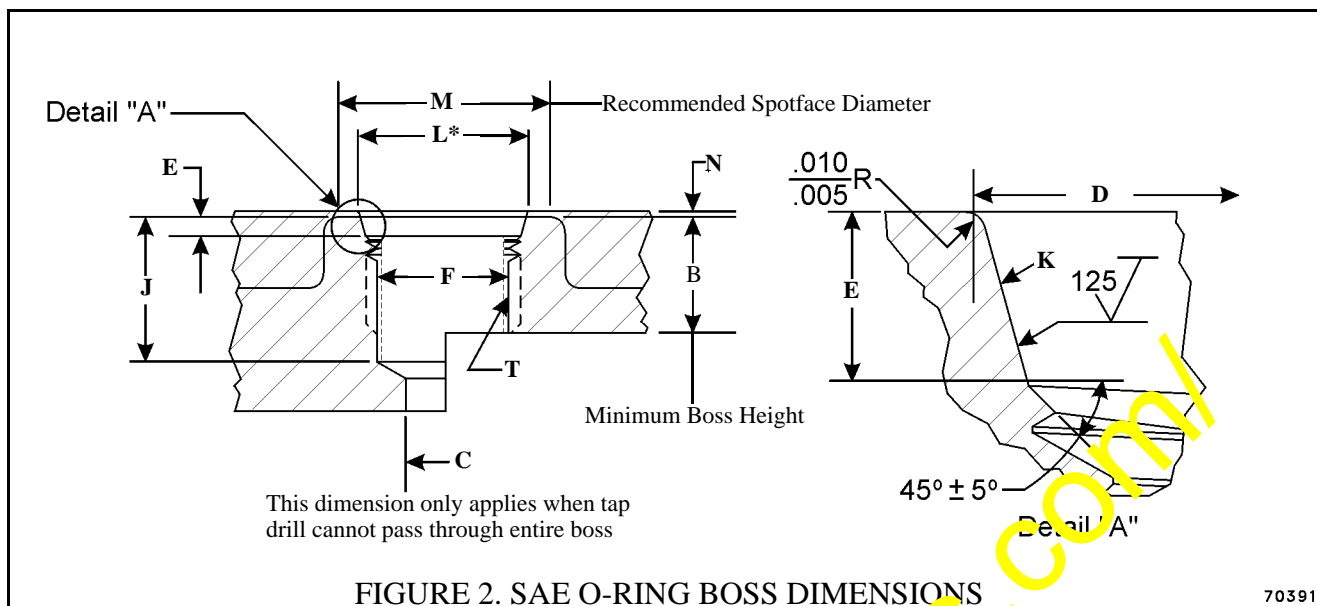


FIGURE 2. SAE O-RING BOSS DIMENSIONS

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* This surface shall be square with the thread pitch diameter within 0.010 in. circular indicator reading (TIR) when measured at "L" dimension.

Tube Outside Diameter	"T" Straight Thread		"B" Minimum Threaded Depth	"C" Minimum Diameter	"D" +0.005 -0.000 Diameter	"E" +0.015 -0.000	
	Thread Size	Pitch Diameter					
		Minimum					Maximum
0.625 in.	0.875 in.-14 UNF	0.8286 in.	0.8356 in.	0.656 in.	0.484 in.	0.942 in.	

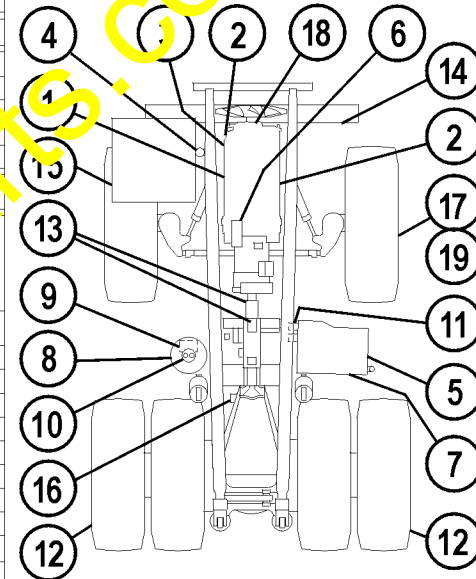
"F" +0.020 -0.010 Drill	Depth of "F"	"J" Minimum	"K" ± 1°	"L" Minimum Diameter	"M" Minimum Diameter	"N" Maximum
0.750 in.	1.09 in.	0.78 in.	15°	1.000 in.	1.344 in.	0.094 in.

After installation of the magnetic plug, the plug should be removed and inspected at every 250 hour maintenance interval. The wheel hub is full of oil so a clean shop towel or a replacement plug will be needed to plug the hole while inspecting and cleaning the magnet. Check for any internal wheel hub wear particles that are attached to the plug. If a large quantity of wear particles are attached to the plug, it may be necessary to disassemble the wheel and inspect each component for wear.

LUBRICATION CHART

LUBRICATION SPECIFICATIONS

LUBE KEY	TYPE LUBRICANT													
A	ENGINE OIL - - - - SEE ENGINE MANUAL													
B	HYDRAULIC OIL - - - - SAE 10W C-4 - - - -		AUXILIARY HEATERS REQUIRED BELOW -10°F(-23°C)											
C	HEAVY-DUTY SYNTHETIC GEAR OIL - - - - SEE DRIVE SYSTEM MANUAL													
D	MULTI - PURPOSE EXTREME PRESSURE GREASE - - - - NLGI NO.2 (5% MIN. MOLY-DISULFIDE)													
E	MULTI - PURPOSE GEAR OIL - - - - SAE 80W - 90													
SYM	DESCRIPTION	PTS	LUBE KEY	10 HR	50 HR	100 HR	250 HR	500 HR	1000 HR	2000 HR	3000 HR			
1	CRANKCASE OIL LEVEL	1	A	CHECK	SEE ENGINE MANUAL									
2	ENGINE LUBE OIL FILTERS													
3	FUEL FILTER													
4	FUEL SEPERATOR (DAVCO)													
5	FUEL TANK	1												
6	GE PREFILTER BREATHER	1	D											
7	FUEL TANK BREATHER	1												
8	HYDRAULIC OIL LEVEL	1	B	CHECK										
9	HYDRAULIC STRAINER	2												
10	HYDRAULIC TANK BREATHER	2												
11	HYDRAULIC FILTERS	3			**	**	**							
12	MOTORIZED WHEEL OIL LEVEL	2	C											
13	HYD. PUMP DRIVE SHAFT	2	D											
14	CHASSIS LUBE LEVEL	1	D											
15	SEAT SLIDES & STEER SHAFT	4	D											
16	WHEEL MOTOR BLOWER	2	D											
17	FRONT WHEEL BEARINGS ***	2	E											
18	FRONT TRUNION	1	D											
19	MAGNETIC PLUG FRONT WHL COVER ****	2												



630E, 730E, 830E, & 930E

* 1000 HR INTERVAL CAN BE EXTENDED TO 2500 HR PROVIDED OIL SAMPLING AND ANALYSIS IS CONDUCTED EVERY 250 HR.
 ** ONE-TIME CHANGE AT 50, 100 AND 250 HR.
 *** NOT APPLICABLE FOR 930E
 **** APPLICABLE FOR 930E ONLY

WB2790

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