PARTS & SERVICE NEWS

REF NO.	AA02177
DATE	September 24, 2002

SUBJECT: FAN IDLER DUST SEAL

PURPOSE: To introduce changes to the SA12V140Z-1 and SA12V140ZE-2 fan idler levers.

APPLICATION: 330M Truck Serial Number BFP42 A10190 through A10223, A10225 through A10227, A10231 and A10232
HD785-5LC Truck Serial Number A10144, A10224 and A10228 through A10258
WA800-2LC Wheel Loader Serial Number A20020 and UP
WA800-3LC Wheel Loader Serial Number A50001 through A50016
WA900-1LC Wheel Loader Serial Number A20008 and UP
WA900-3LC Wheel Loader Serial Number A50001 through A50011

FAILURE CODE: A630BL

DESCRIPTION:

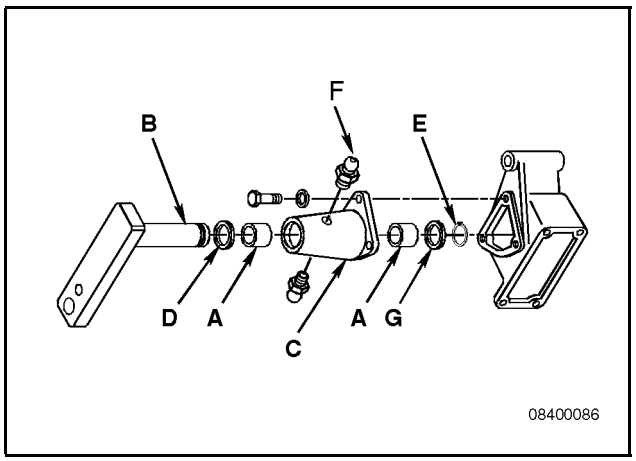
This Parts & Service News introduces a change to SA12V140Z-1 and SA12V140ZE-2 fan idler levers. A dust seal, part number 1315 166 H1, is now being included on new SA12V140ZE-2 industrial engines to protect the Permaglide Teflon™ bushings, part number 6216-64-4580, used in the pivot shaft support, from dust. Komatsu initiated this change in the SA12V140ZE-2 industrial engines on March 22, 2001, with engine serial number 37197919.

NOTE: The Permaglide bushings work by transferring a Teflon™ coating to the idler lever, so greasing is NOT necessary.

The dust seal, part number 1315 166 H1, and wire ties, part number 6216-64-4420, are available for service and are structured in the present belt tensioner assemblies. Komatsu recommends installing a new dust seal during fan idler bushing replacement. The seal **must** be installed on the idler lever **before** installing the lever into the pivot shaft support.

New Assembly

If any of the components in the new assembly are out of specification (see New Assembly, Inspect for Reuse), then replace the parts accordingly.



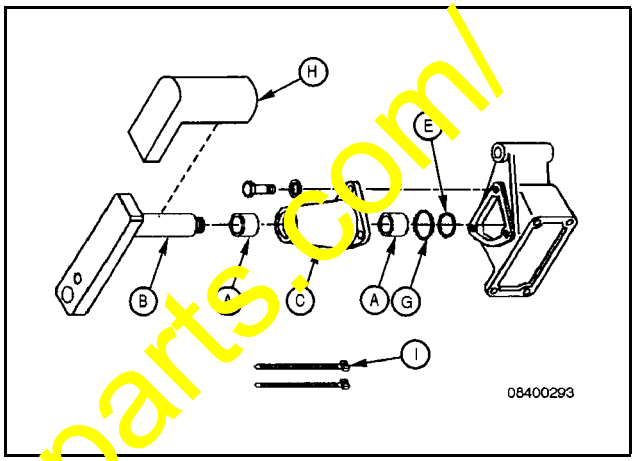


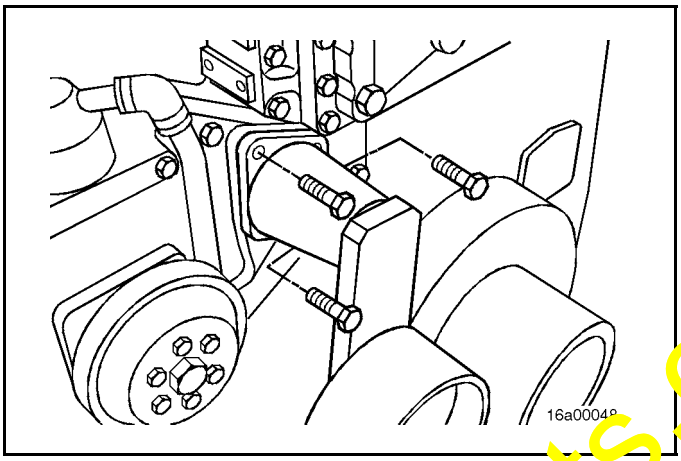
Table 1 below shows the part numbers for the original and new parts.

Table 1 Part Numbers

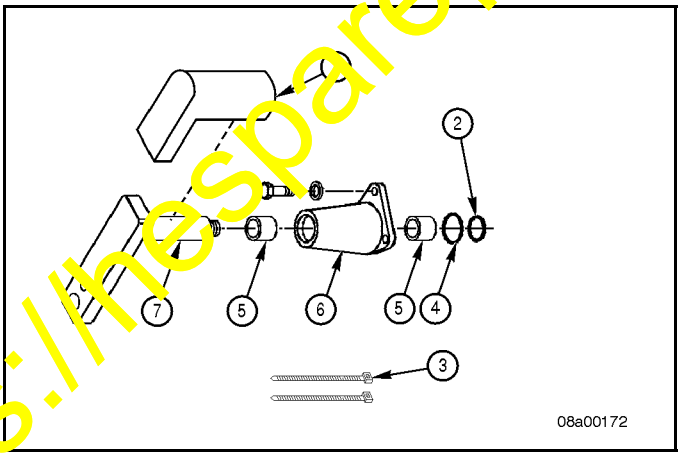
Item	Description	Engine S/N 37197918 and down	Engine S/N 37197919 and up
(**not** interchangeable)	Pivot shaft support assembly	1307 764 H91	6216-64-4620
A (**not** interchangeable)	.Bushing	.NSS	.6216-64-4580
C (**not** interchangeable)	.Pivot shaft support	.1307 766 H1	.NSS
B (**not** interchangeable)	Idler lever	1307 762 H1	6216-64-4610
D	Oil Seal	1307 760 H1	N/A
E	Retaining ring	6216-64-4540	6216-64-4540
F	Grease fitting	6216-24-3910	N/A
G	Plain Washer	6216-64-4550	6216-64-4550
H (**not** interchangeable)	Dust Seal	N/A	1315 166 H1
I (**not** interchangeable)	Wire ties (2 to 15 inches long by 3/16 inch wide)	N/A	6216-64-4420

NOTE: This is a product improvement and is **not** subject to campaign.

Disassemble



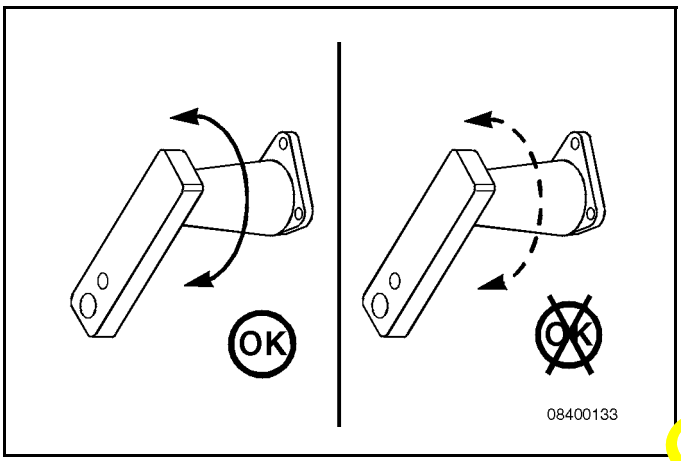
Remove the three mounting capscrews that are holding the pivot shaft to the idler pulley bracket.



Remove the following:

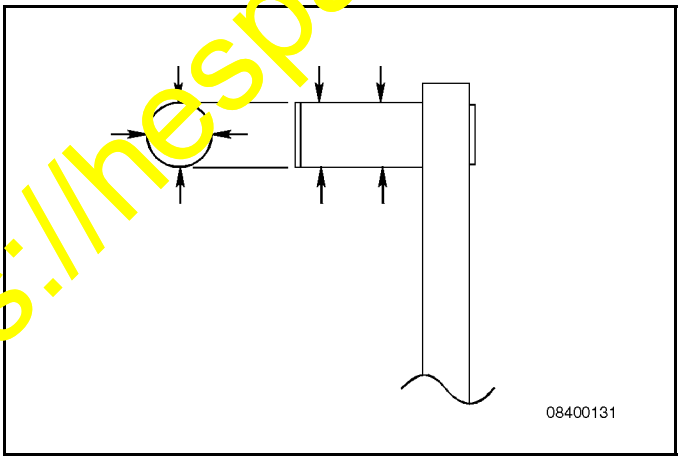
- The snap ring (2) from the idler lever (7)
- The idler lever (7) from the pivot shaft support (6)
- The bushings (5) and washer (4) from the pivot shaft support (6)
- The dust seal (1) from the idler lever, if the dust seal is damaged.

Inspect for Reuse



NOTE: The Permaglide Teflon™ bushing works by transferring a Teflon™ coating to the shaft during operation. The Teflon™ coating on the shaft should **not** be removed except for cleaning rust and debris from the shaft, in which case the bushings should be replaced.

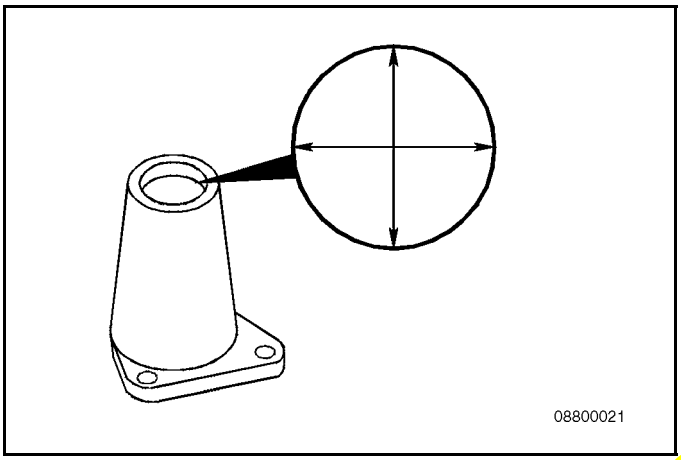
Make certain that the idler shaft rotates freely in the pivot shaft support without excessive clearance motion between the shaft and bushing. If the idler shaft does **not** rotate freely, remove the shaft, and check for debris.



Clean any rust or debris off the shaft.

Check for shaft wear at the bushing locations. Measure the outside diameter of the shaft at the two bushing locations.

Outside Diameter of Shaft, Part Number 6216-64-4610		
31.67 (mm)	**MIN**	1.247 (in)
31.72 (mm)	**MAX**	1.249 (in)



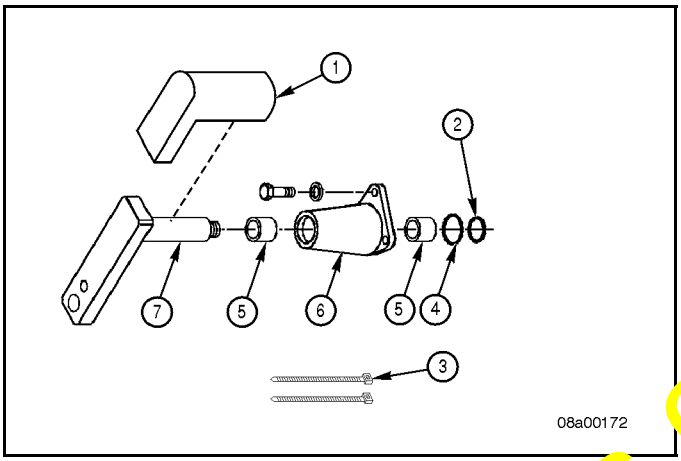
Check for wear on the bushings.

Measure the pivot support inside diameter.

Inside Diameter of Pivot Shaft		
35.71 (mm)	MIN	1.406 (in)
35.81 (mm)	MAX	1.410 (in)

NOTE: Do **not** reuse the bushings if the pivot shaft has been cleaned.

Assemble



Use an arbor press to install the new bushings (5) into the pivot shaft support (6).

Install the dust seal (1). Secure two wire ties (3) an inch up from the edge of the dust seal on the side opposite the pivot shaft support.

NOTE: The dust seal **must** be installed before the idler lever is installed into the pivot shaft support.

Install the idler lever into the pivot shaft support.

Install the snap ring into the snap ring groove on the idler lever.

Install the pivot shaft support to the idler pulley bracket with the three capscrews and three lock washers.

Torque value: 108 N•m [80 ft-lb]