

PARTS & SERVICE NEWS

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This Parts & Service News supersedes the previous issuance, AA03034A, dated May 4, 2004. AA03034A should be discarded.

SUBJECT: DRIVE SHAFT UNIVERSAL JOINTS SPALLING

PURPOSE: Introduce kits and new service parts for front drive shaft.

APPLICATION: Komatsu Mechanical Drive Dump Trucks:
530M: A30001 - A30038, 32682;
HD1500: A30039 - A30073, A30075 & A30077

FAILURE CODE: 2011CA

DESCRIPTION:

Some trucks may experience premature wear/failures of the front drive shaft assembly. Inspection of the universal joint assemblies has revealed spalling of the bearing journals. To obtain longer service life of the front drive shaft, a kit is being introduced to increase the size of the front drive shaft from 11C to 12C. Two front drive shaft kits have been created, one for trucks equipped with KTA50 engines (XK0193) and one for trucks equipped with Komatsu (or QSK45) engines (XK0195). The drive shaft length requirement is different with each engine.

Follow the instructions on the installation drawings provided in each kit to upgrade the truck to the larger drive shaft. Refer to Table 1 for the contents of each kit.

The grease (56B-20-19910) supplied in each kit is recommended by the drive shaft vendor. It is supplied in a 0.8 Kg (1.76 lb) can. Fill a hand grease gun with this grease and use it only for servicing the drive shaft universal joints. Lubricate each universal joint in the front and the rear drive shafts at the 5,000 hour service interval.

▲ IMPORTANT ▲

Grease containing molybdenum disulfide should not be used to lubricate universal joints and slip joints on drive shafts. Shorter component life will result if a moly grease is used in these applications. Moly grease is too slippery and prevents the needle bearings from rolling properly. This may cause spalling and premature failure.

For specific recommendations about drive shaft universal joint inspection and re-use criteria, see Komatsu's "Guidance for Reusable Parts - Universal Joint Spiders," (Form SEBG4170).

NOTE: The lubrication chart on the trucks will be revised to show the correct grease for use on the drive shafts.

TABLE 1. DRIVE SHAFT UPGRADE KITS

Description	Quantity	Kit XK0193-1 (KTA50 Engine)	Kit XK0195-1 (QSK45 or SDA12V160 Engine)
Drawing, Output Shaft Ass'y	1	EJ3192	EJ3192
Drawing, Installation	1	EK4606	EK4607
Rear Coupling	1	562-13-41363	562-13-41363
Front Coupling	1	562-88-32720	562-88-32720
Guard, Plate	1	EK8775	EK8775
Seal	1	07012-50125	07012-50125
Seal	1	562-01-32910	562-01-32910
Grease	1	56B-20-19910	56B-20-19910
Grease	1	427-12-11871	427-12-11871
Drive Shaft	1	562-20-31900	562-20-31002
Snap Ring	1	130-09-15790	130-09-15790
Capscrew	8	510-20-12820	510-20-12820
Cap	1	711-60-11392	711-60-11392
Snap Ring	1	04065-01204	04065-01204
Loctite (#64231)	1	EK4908	EK4908
O-Ring	1	07000-15085	07000-15085
O-Ring	1	07000-15160	07000-15160
Plate, Guard	1	EK4921	EK4921
Adhesive	1	VE7533	VE7533