

# PARTS & SERVICE NEWS

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(C)

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*This Parts & Service News supersedes the previous issuance, AA04057A, dated June 7, 2004. AA04057A should be discarded.*

**SUBJECT:** ENGINE DAMPER AND FRONT DRIVE SHAFT

**PURPOSE:** To introduce improved parts for reliability and longer service life.

**APPLICATION:** Komatsu Mechanical Drive Dump Trucks:  
530M: A30001-A30038, 32628;  
HD1500-5: A30039 thru A30073, A30075, A30077

**FAILURE CODE:** 2011CC

**DESCRIPTION:** 530M Front Drive Shaft Kit (EL0532)  
HD1500 Front Drive Shaft Kit (EL0531)

Some trucks in operation may experience premature wear/failures of the front drive shaft assembly and engine damper. Inspections of the universal joint assemblies have revealed spalling on the bearing journals. These premature front drive shaft failures have led to subsequent damper failures. To obtain longer service life of the front drive shaft and engine damper, two kits are being introduced to increase the size of the front drive shaft from 11C to 12C. One kit is for 530M trucks equipped with KTA50 engines (EL0532) and the other for HD1500 trucks equipped with Komatsu (or QSK45) engines (EL0531). The drive shaft length requirement is different with each engine.

*NOTE: The engine damper in the kits is improved and comes with larger rubber biscuits, as well as the larger coupling for mating with the 12C drive shaft.*

Follow the instructions on the installation drawings provided in each kit to upgrade the truck to improved damper and 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 for servicing the drive shaft universal joints, only. 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. 530M/HD1500 FRONT DRIVESHAFT KITS			
Part Number 530M - KIT (EL0532)	Part Number HD1500 - KIT (EL0531)	Description	Quantity
562-01-32003	562-01-32003	Drawing - Output Shaft Assembly	1
EL0533	EL0534	Drawing - Front Drive Shaft Kit	1
562-20-31900	562-20-31002	Front Drive Shaft	1
562-13-41363	562-13-41363	Coupling	1
EK4921	EK4921	Guard Plate	1
EK8775	EK8775	Guard	1
07000-15085	07000-15085	O-Ring	1
07000-15160	07000-15160	O-Ring	1
07012-10125	07012-10125	Oil Seal	1
130-09-15790	130-09-15790	Snap Ring	1
427-12-11871	427-12-11871	Grease	1
510-20-12820	510-20-12820	Capscrew	8
56B-20-19910	56B-20-19910	Grease	1
EK4908	EK4908	Loctite	1
VE7533	VE7533	Adhesive	1
01010-60812	01010-60812	Capscrew	45
01010-61240	01010-61240	Capscrew	6
01010-61245	01010-61245	Capscrew	16
01010-61440	01010-61440	Capscrew	24
01010-61645	01010-61645	Capscrew	6
01641-20812	01641-20812	Washer	45
01643-31232	01643-31232	Washer	22
01643-31445	01643-31445	Washer	24
01643-31645	01643-31645	Washer	6
04020-00820	04020-00820	Dowel Pin	4
04065-01204	04065-01204	Snap Ring	1
0407000110	0407000110	Snap Ring (Shaft)	1
06000-06222	06000-06222	Bearing	1
07020-00000	07020-00000	Grease Fitting	2
07030-01030	07030-01030	Breather	1
195-12-11241	195-12-11241	Cover	15
427-12-11871	427-12-11871	Grease	1
562-01-32111	562-01-32111	Cover	1

TABLE 1. 530M/HD1500 FRONT DRIVESHAFT KITS

Part Number 530M - KIT (EL0532)	Part Number HD1500 - KIT (EL0531)	Description	Quantity
562-01-32121	562-01-32121	Cover	1
562-01-32141	562-01-32141	Outer Body	1
562-013-2160	562-013-2160	Flange	2
562-013-2203	562-013-2203	Body Assembly	1
562-01-32410	562-01-32410	Rubber	4
562-01-32420	562-01-32420	Rubber	4
562-01-32722	562-01-32722	Coupling	1
562-01-32910	562-01-32910	Seal	1
569-01-12492	569-01-12492	Bearing	1
711-60-11392	711-60-11392	Cap	1

**▲ IMPORTANT ▲**

*Similar kits are available for converting the front drive shaft to 12C without replacing the engine damper. Refer to Parts & Service News, AA039344 Drive Shaft Universal Joints Spalling.*