

PARTS & SERVICE NEWS

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SUBJECT:

NEW DIFFERENTIAL SPIDER SHAFTS ON WA300-1 AND WA320-1

PURPOSE:

To introduce a new reinforced spider shaft in the differential.

APPLICATION: WA300-1 Wheel Loaders, Serial Nos. 10001 thru 20649

WA320-1 Wheel Loaders, Serial Nos. 10001 thru 20339, A25001 thru 25021

DESCRIPTION:

Introduction

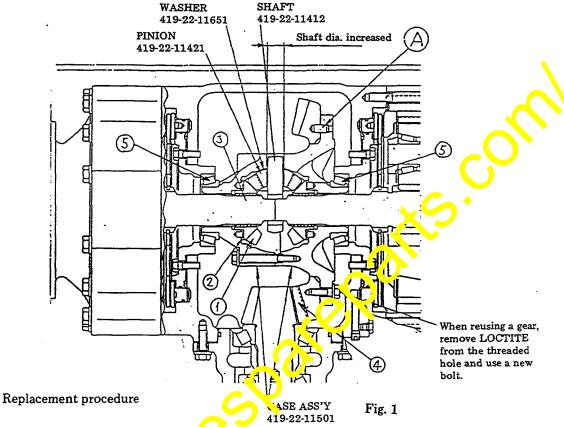
. If the existing spider shaft is cracked or broken on a WA300 or Wr. 250 machine, replace the shaft with the new reinforced one together with 4 items of other parts according to this PARTS & SERVICE NEWS.

2. New and replacement parts

			<u> </u>	
Part No.	Part Name	('ty	Purpose of part	Remarks
419-22-10005 (419-22-10004)	AXLE (F) ASS'Y (AXLE (F) ASS'Y	(1)	P	
419-22-11024 (419-22-11023)	F. DIFF ASS'Y (F. DIFF ASS'Y)	1 (1)	Reworking	
419-23-10006	AXLF (R) AS3'Y	1	Replacement	
419-23-11025	R DIFF SS'Y	1		
419-22-11412 (419-22-11411)	S. (AFT) (SHAFT)	2 (2)		
419-22-115(1 (419-22-1 <u>1</u> 50()	CASE ASS'Y (CASE ASS'Y)	2 (2)		
419- <mark>22-12121</mark> (410-22-11420)	PINION (PINION)	8 (8)		
413-22-11651 (-19-12-11650)	WASHER (WASHER)	8 (8)		
419-22-11432	GEAR	4]
419-22-11631	WASHER	4		When damaged badly, replace.
175-21-12180	PIN	8		

3. Shaft reinforcement

New spider shaft has been reinforced by increasing its shaft dia and the fillet R. In consequence of the reinforced spider shaft, 3 items of parts (washer, pinion and case ass'y) should also be replaced with those of new part nos., as shown in Fig. 1 below.



(1) Disassembly

4.

- Disassemble the differential, referring to the applicable Shop Manual (Par. concerning the "Disassemble of the differential").
- (2) Then, be sure to check parts to be reused for any abnormalities. (If a part is found abnormal, replace it with a new one)

See if there are secondary failures due to the spider shaft damage.

The splined portion for cracks (by a color check), damage on the tooth surfaces (by visual check)

Washer (side gear): For damage due to the foreign matter trapped therein (by visual

check)
Sun gear: The spline

The splined portion for cracks (by a color check)

4 Spiral bevel gear:

The tooth surfaces for damages (by visual check)

Bearings:

Rollers as well as the inner and outer race track surfaces for

damages (by visual check)

(3) Reassembly

- Reassemble the differential, referring to the Shop Manual (Par. concerning the assembly
 of the differential)
 - Note) At present, dowel pin (A) in Fig. 1) is not used in the bevel gear. Therefore, no dowel pin hole is provided in the new case ass'y (419-22-11501). (In case of the bevel gear with dowel pin, dowel pin A) need not be reinstalled any longer)