

PARTS & SERVICE NEWS

REF NO.	AT04276
DATE	December 16, 2004

SUBJECT: THE THRUST WASHER WITH IMPROVED WEAR-RESISTANCE

PURPOSE: To inform field personnel.

APPLICATION: WA600-3: 50001-50435, 52001-52054, 54001-54012
 WA600-3A: 52055-52154
 WA600-3D: 53001-53053

FAILURE CODE: 15FECA

DESCRIPTION:

Introduction

The thrust washer in the WA600-3 transmission planetary section of which wear-resistance was improved is introduced in this Service News.

List of Parts

For WA600-3 modification

Part No.	Part Name	Qty	Remarks
195-15-32570 (09233-14520)	Thrust Washer	8	Planetary gear row R
561-15-32570 (561-15-32590)	Thrust Washer	16	Planetary gear row F, 4th row
426-15-19940 (09233-13220)	Thrust Washer	8	Planetary gear 3rd row

[Improvements]

The copper alloy thrust washer used in the transmission planetary section has been changed to a resin washer to improve the wear-resistance.

Applicable machine model	Replacement section	Part No.		Changes (see figures below)	Applicable machine serial No.	
		Previous parts	Parts with improved wear-resistance		Not modified machines	Modified machines
WA600-3	Row R	09233-14520	195-15-32570	①	(Up to T/M106940)	(T/M106941 and after)
	Row F, 4th row	561-15-32590	561-15-32570	②		
	3rd row	09233-13220	426-15-19440	③		

* In the 1st row, the thrust washer with improved wear-resistance has been already installed from the first serial No.

The 2nd row has no thrust washer since it is a revolution clutch.

Row R

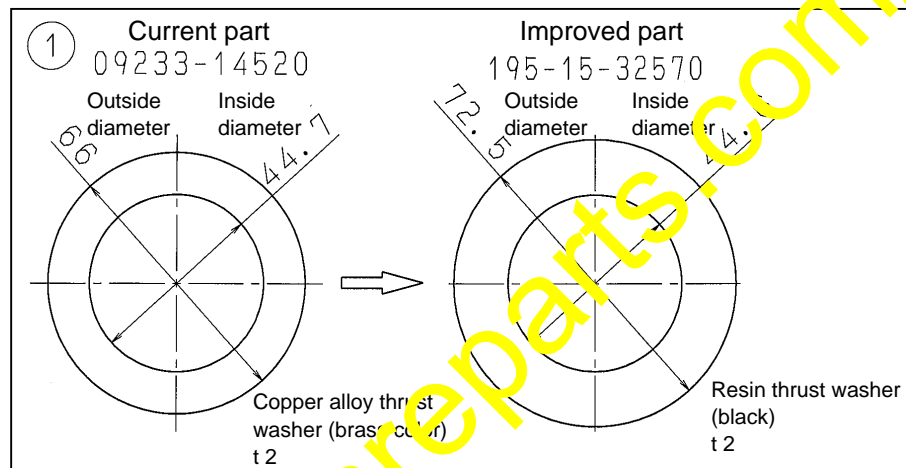


Fig. 1

F, 4th row

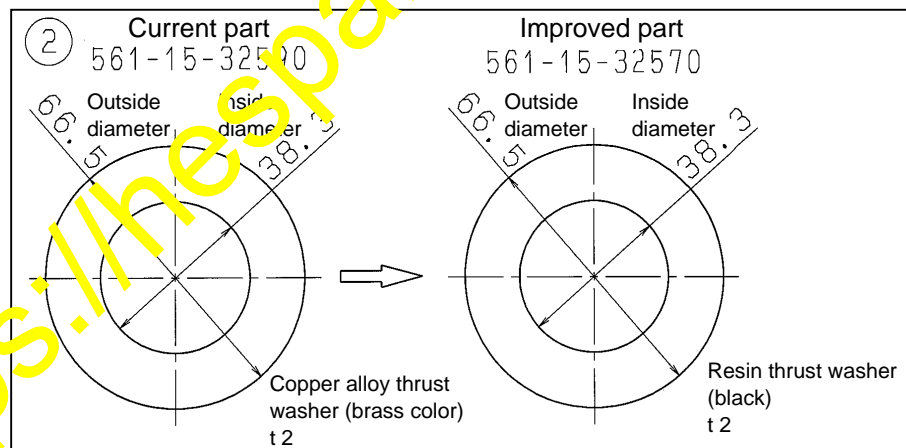


Fig. 2

3rd row

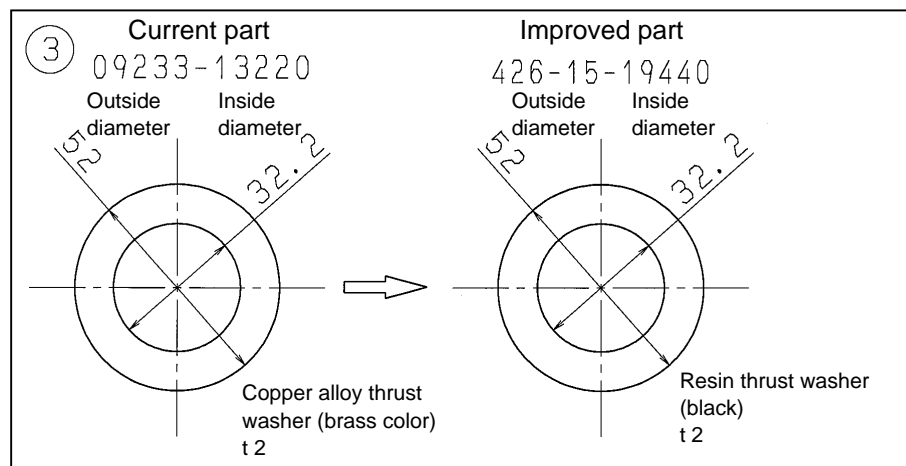


Fig. 3

* See page 2

Improvements

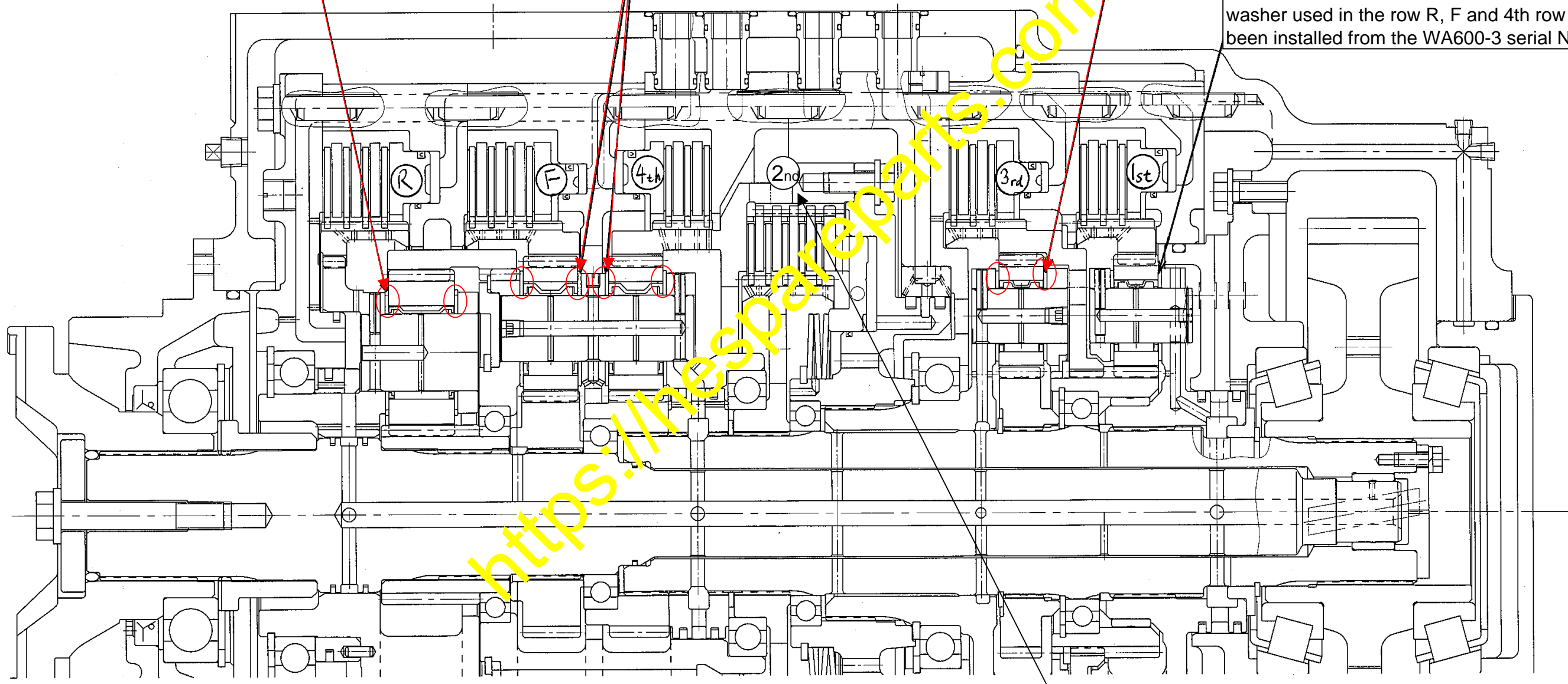
WA600-3 transmission sectional view

① <Current> 09233-14520
↓
<New> 195-15-32570

② <Current> 561-15-32590
↓
<New> 561-15-32570

③ <Current> 09233-13220
↓
<New> 426-15-19440

In the 1st row, the parts with improved wear-resistance made of the same material as the thrust washer used in the row R, F and 4th row have been installed from the WA600-3 serial No. 1.



For the procedures for disassembling and assembling the transmission, see the Shop Manual.

The 2nd row has no thrust washer since it is a revolution clutch.

Fig. 4

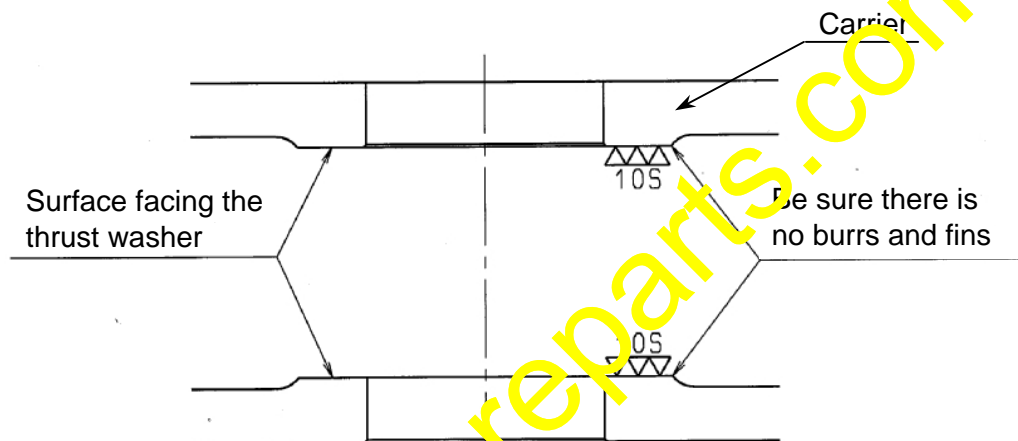
[Replacement procedure]

Replace the thrust washer in accordance with "Disassembling and Assembling" procedure in the Shop Manual.

[Precautions]

Be sure to perform and check the followings when replacing the current parts with the ones with improved wear-resistance.

- <1> Check that there is no abnormality (wear, scratch, burrs and fins, etc) on the carrier surface facing the thrust washer.
- <2> Remove burrs and fins as much as possible.



Sectional view of the pinion shaft hole section of the carrier

Fig. 5