PARTS & SERVICE

REF NO.	AT01111
DATE	Jul. 23, 2001
	Page 1 of 4

SUBJECT: INTRODUCTION OF IMPROVED PARTS FOR T/M 1ST LINE AREA ON

GD825A-2 ETC.

PURPOSE: To introduce improved parts with increased durability for use with the 1st

line section of the transmission ass'y on GD825A-2 and other motor graders

APPLICATION: GD705A-3A Motor Graders, Serial Nos. 10002 and up

> GD705A-4A Motor Graders, Serial Nos. 11001 and up Motor Graders, Serial Nos. 10002 and up GD805A-1 Motor Graders, Serial Nos. 11001 and up GD825A-2 Motor Graders, Serial Nos. 11001 and up GH320-1

FAILURE CODE: 15KECA

DESCRIPTION:

1. Introduction

This Service News will introduce improved parts (tl ryst washers, needle bearings and shafts) with enhanced lubricity which have been newly prepared this time for use with the 1st line section of the transmission as y on the GD700 Series and GD800 Series motor graders.

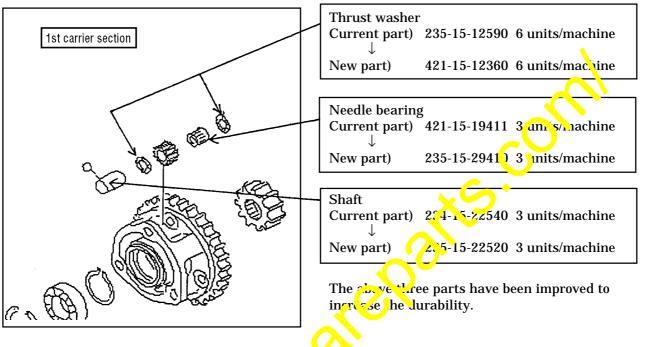
2. List of parts

Part No.	Part Mane	Q'ty	Remarks
421-15-12360	Thrust washer	6	Available as spare parts in sets of these parts
(235-15-12590)	(Thrust washer)	(6)	
235-15-29410	Needle bearing	3	
(421-15-19411)	(Needle bearing)	(3)	
235-15-22520	Shaft	3	
(234-15-1254))	(Shaft)	(3)	

3. Contents of the modification

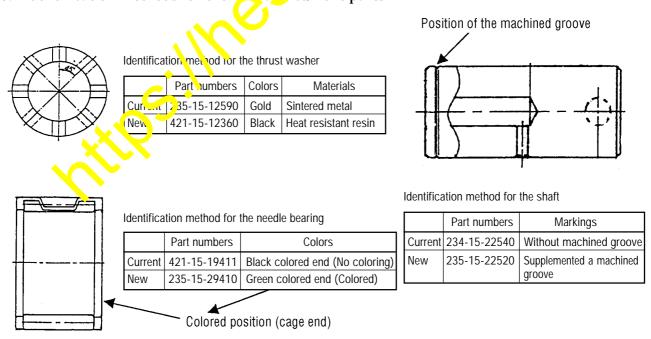
The contents of the improved parts parts will be described in the Section 4, identification methods for the new and current parts will be given in the Section 5, locations of the improved parts will be introduced in Section 6 and the replacement procedures will be described in Section 7.

4. Contents of improvement of the subject parts



The above explanations are in case of the typical motor grader model of the GD825A.

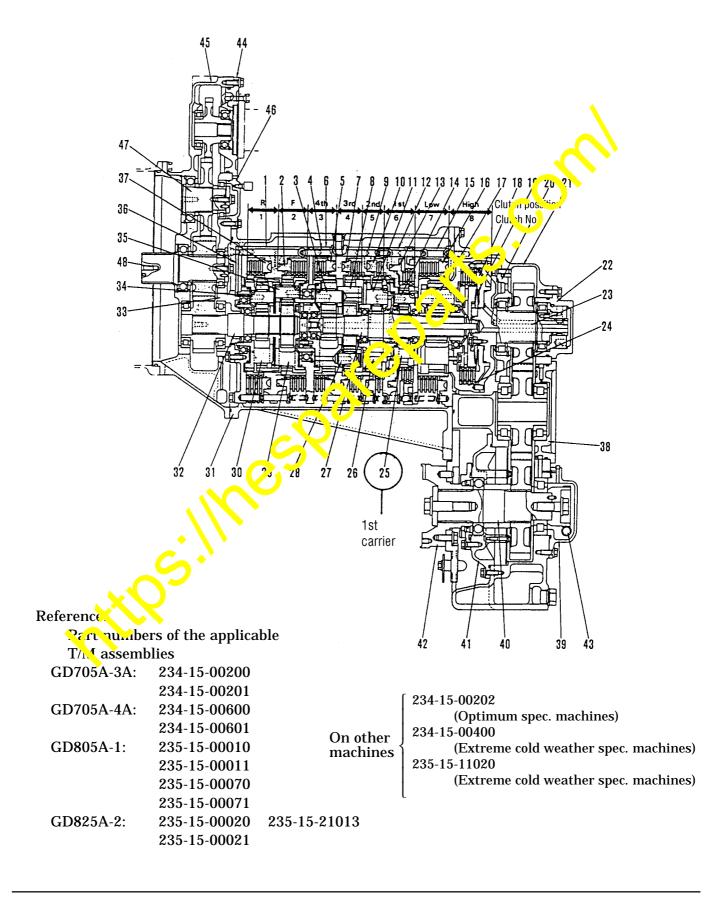
5. Identification methods for the new and current parts



K The appearances and dimensions of the current and new parts are the same with all the above three parts.

6. Locations of the improved parts

The 1st carrier which incorporates the improved parts with the enhanced durability is located at the section being itemized as "25".



7. Replacement procedures

Refer to the general explanations for the disassembly and reassembly procedures of the carrier in the Section "Disassembly and assembly of planetary gear" in the Chapter "Disassembly and assembly of transmission" in the Shop Manual.

In the schematic diagrams indicated below, the Item No. 2 "shaft", Item No. 7 "bearing" and Item Nos. 4 & 6 "thrust washers" are the parts modified this time.

Meanwhile, for the disassembly and reassembly procedures for other sections, refer to the individual Shop Manual for the respective machine models.

Transmission

Disassembly · Assembly

23P323

Disassembly of the planetary gear

1. After pulling out the <u>shaft (2)</u> from the plan-Current part: 234-15-22540

etary carrier ass'y (1), remove the ball (3),

thrust washer (4), gear (5) and thrust washer

Current part: 235-15-12590

Current part: 235-15-12590

(6) in given sequence.

2. Pull out the bearing (7) from the gear (5).

Current part: 421-15-19411

Reassembly of the planetary gear

- ★ Before reassembling respective parts, apply engine oil to their sliding surfaces.
- 1. Install the bearing (7) to the gear (1)

 New part: 235-15-29410
- 2. Inserting the shaft (2) into the carrier ass'y, New part: 235-15-125.0

install the thrust washer (b), gear (5) and New part: 421-15, 12360

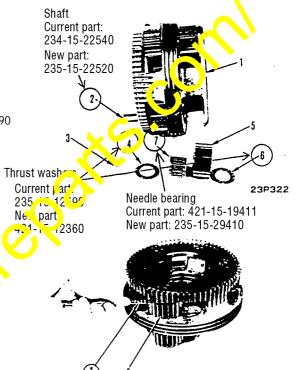
thrust washer (4) Defore fastening the shaft New part: 421-15-12360

by the ball (3)

★ If the shaft comes out while making the readsembly work, lightly caulk the ball groove in the carrier surface.

Align the centers of the thrust washers (4) and (6) before installing to the shaft.

Especially, since the new thrust washers are being made of synthetic resin, they tend to break if the shaft pries them while carrying out the assembly work. Therefore, pay utmost attention when installing them.



- 3. After finishing the reassembly work, measure the side clearance of the planetary gear (5) using a filler gauge 1 to make sure the clearance is within the specification.
 - ★ Side clearance: 0.35 0.8 mm