# PARTS & SERVICE

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IMPROVEMENT OF FAN PULLEY DRIVING COUPLING WITH **SUBJECT:** 

SPLINE OF INCREASED DURABILITY GD655, GD675 AND GD555

**PURPOSE:** To introduce modification procedure to replace the fan pulley driving cou-

pling of the transmission on GD655, GD675 and GD555 motor graders to

the improved parts with the spline of increased durability

**APPLICATION:** GD655**Motor Graders** 

**GD675** Motor Graders

**GD555 Motor Graders** 

GD655-3Y Motor Graders GD555-3Y Motor Graders See page 2.

FAILURE CODE: 38B1CA

#### **DESCRIPTION:**

## 1. Introduction

Since it may become impossible to transfer the motile power because of abrasion of the spline of the fan pulley driving coupling of transmission on the GD655, GD675 and GD555 motor graders, make the modification to prevent occurrence of the above failure following the modification procedure bang cutlined in this Service News at a convenient time.

Table of the applicable machines and already modified machines

	Serial numbers of the applicable machines and				
Machine model	already modified machines				
	Already shipped machines	Already modified factory			
	applicable to this modification	shipment machines			
GD555-3A	#10001 thru #10012	#11001 –			
GD555-3C	#50001 thru #50029	#51001 –			
GD655-3A	#10001 thru #10017	#10018 -			
GD655-3C	#50001 thru #50081	#51001 –			
GD655-3Y	#4001 thru #4015	#4016 –			
GD655-3	(No applicable machine)	#1001 –			
GD675-3A	#10001 thru #10004	#11001 –			
GD675-3C	#50001 thru #50017	#51001			
The applicable		Transpission No. 100163,			
numbers of		100 68, 100190, 100209 –			
Transmission		3, 100100, 100200			

## 2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
714-23-10000 (714-23-10000) 714-23-10020 (714-23-10020) 714-23-14230 (103-15-33280) 01050-51285 (01050-81250) 281-15-127:0 (714-23-14-23) 714-23-14-230 (714-23-14-230)	Transmission ascly (Transmission ascly) Transmission ascly (Transmission ascly) Transmission ascly (Transmission ascly) Holder (Holder) Bolt (Eclt) Plug (Plug) Coupling, comp. (Coupling)	Rework	1 (1) 1 (1) 1 (1) 1 (1) 1 (1)	The Part No. will not be changed.
↓ Consumable par				
07000-73030	O-ring		1	
07005-01012	Seal washer		4	
$\downarrow$ Jig parts to use				
01010-81060	Bolt		1	Pulley mounting bolt

Plug

 $(\phi 1.0)$ 

(Cross sectional view of

the fan drive section)

Current

state

## 3. Details of the modification

<Details of the modification>

① The holder is to be changed so fix the coupling so that the coupling may not move in the axial direction.

Holder

Tiahtenina tora

10 - 12.5 kgm

Pulley

Tube

(2) The plug is to be changed to increase the lubricating oil quantity.

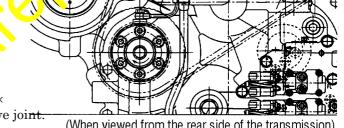
## <Modification procedure>

Remove the side cover (on the LH side of the machine) and carry out the modification as per the procedure described below.

- ① Locking the fan pulley from turning
- 1) Screw-in a bolt (of a length under head of about 60 mm) into the  $10 \times 1.5$  forcing tap on the pulley (23B-02-31141).
- 2) Set a tightening tool onto the bolt head to lock the fan pulley from turning.
- 2 Disassembly of the coupling and tube
- 1) Remove the bolt (01050-81250).
- 2) Remove the holder (103-15-33280).
- 3) After removing the fan belt, remove the coupling (714-23-14220) with the pulley being installed to it. After that, remove the mounting bolts (M10  $\times$  6 pcs.) to separate the above mentioned two parts.
- 4) Remove the tube (714-23-18170), eye joint (07206-30710) seal washers  $(07005-01012 \times 4)$ pcs.) and plug (714-23-17320: with the orifice diameter of  $\phi$  1.0).
- 3 Installation of the improved parts
- 1) Screw-in the plug (281-15-12790: with the orifice diameter of  $\phi$  2.0) into the case.
- 2) After replacing the seal washers (500-0.012 × 4 pcs.) only to new parts, instant the tabe and eye joint. Tightening torque: 1.0 - 1.3 kgr

3) Replace the coupling (11-23-14220) to the improved coupling (714-

(When viewed from the rear side of the transmission)



Coupling

4) Install the pulley. (Bort tightening torque: 6 - 7.5 kgm) 5) Install the hold w (4-23-14230) and bolt (01050-51285). Tightening lorgile: 10 - 12.5 kgm

Apply T-2 Note: If n is difficult to tighten the bolt because of remaining old LT-2, screw-in the  $12 \times 1.5$  tap into the hole to clean the ightening torque: remaining LT-2.

6) Apply painting (using a spray type paint) to prevent rusting of the holder.

7) Install the fan belt.

8) After finishing installation of all the improved parts, stamp "T" at the position after the Ass'y No. on the nameplate.

"714-23-10000<u>T</u>" "714-23-10020T"



