

PARTS & SERVICE NEWS

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Page 1 of 3

SUBJECT: IMPROVEMENT OF FAN PULLEY DRIVING COUPLING WITH SPLINE OF INCREASED DURABILITY GD655, GD675 AND GD555

PURPOSE: To introduce modification procedure to replace the fan pulley driving coupling of the transmission on GD655, GD675 and GD555 motor graders to the improved parts with the spline of increased durability

APPLICATION:

GD655	Motor Graders	} See page 2.
GD675	Motor Graders	
GD555	Motor Graders	
GD655-3Y	Motor Graders	
GD555-3Y	Motor Graders	

FAILURE CODE: 38B1CA

DESCRIPTION:

1. Introduction

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

Table of the applicable machines and already modified machines

Machine model	Serial numbers of the applicable machines and already modified machines	
	Already shipped machines applicable to this modification	Already modified factory 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 numbers of Transmission		Transmission No. 100163, 100168, 100190, 100209 –

2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
714-23-10000 (714-23-10000)	Transmission asy'y (Transmission asy'y)	Rework	1 (1)	The Part No. will not be changed.
714-23-10020 (714-23-10020)	Transmission asy'y (Transmission asy'y)		1 (1)	
714-23-14230 (103-15-33280)	Holder (Holder)		1 (1)	
01050-51285 (01050-81250)	Bolt (Bolt)	Replacement	1 (1)	
281-15-12730 (714-23-14220)	Plug (Plug)		1 (1)	
714-23-14230 (714-23-14220)	Coupling, comp. (Coupling)		1 (1)	
↓ Consumable parts to change when replacing the above parts				
07000-73030	O-ring		1	
07005-01012	Seal washer		4	
↓ Jig parts to use when replacing the above parts				
01010-81060	Bolt		1	Pulley mounting bolt

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.
- 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 × 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 × 6 pcs.) to separate the above mentioned two parts.
- 4) Remove the tube (714-23-18170), eye joint (07206-30710) seal washers (07005-01012 × 4 pcs.) and plug (714-23-17320: with the orifice diameter of ϕ 1.0).

- ③ Installation of the improved parts

- 1) Screw-in the plug (281-15-12790: with the orifice diameter of ϕ 2.0) into the case.
- 2) After replacing the seal washers (07005-01012 × 4 pcs.) only to new parts, install the tube and eye joint. Tightening torque: 1.0 - 1.3 kgm

- 3) Replace the coupling (714-23-14220) to the improved coupling (714-23-14260). (Communicating holes: 2 - ϕ 5 → 8 - ϕ 8)

- 4) Install the pulley. (Bolt tightening torque: 6 - 7.5 kgm)

- 5) Install the holder (714-23-14230) and bolt (01050-51289).

Tightening torque: 10 - 12.5 kgm

Apply LT-2

Note) If it is difficult to tighten the bolt because of remaining old LT-2, screw-in the 12 × 1.5 tap into the hole to clean the 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 name-plate.

"714-23-10000T"
"714-23-10020T"

Lock

Screw-in a M10 bolt (of a length under head of about 60 mm) into the 10 × 1.5 forcing tap on the pulley and set a tightening tool onto the bolt head to lock the fan pulley from turning.

