

# PARTS & SERVICE NEWS

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**SUBJECT:** INTRODUCTION OF SMALL-DIA. FAN FOR SA6D140E ON GD825A-2  
(FOR USE ON ALREADY SHIPPED MACHINES ONLY)

**PURPOSE:** To introduce a newly prepared fan for use on GD825A-2 (carrying SA6D140E engines)  
(Applicable to already shipped machines only)

**APPLICATION:** GD825A-2 Motor Graders, Serial Nos. 12051 thru 12098  
(Engine Nos. 23227 thru 28115)

**FAILURE CODE:** A63037

## DESCRIPTION:

### 1. Introduction

This Service News will introduce a newly prepared fan with reduced diameter designed to lessen the chances of occurrence of fan breakage failure on the GD825A-2 motor graders which are being used at high speed exceeding normal operation range.

Meanwhile, since this modification decreases the air capacity of the fan by about 10%, avoid making this modification on machines being used in areas where atmospheric temperatures are high.

### 2. List of parts

No.	Part No.	Part Name	Q'ty	Remarks
1	600-633-0801 (600-633-0851)	Fan (Fan)	1 (1)	
2	01011-81005 (01010-81030)	Bolt (Bolt)	6 (6)	
3	6211-61-3480 (6111-61-3840)	Spacer (Spacer)	1 (1)	
4	(01010-81055)	(Bolt)	(6)	
5	(01643-31032)	(Washer)	(6)	
6	6211-61-3120 (6211-62-3120)	Pulley (Pulley)	1 (1)	
10	235-03-11130 (235-03-11131)	Shroud (Shroud)	1 (1)	} Chassis side part
11	235-03-11142 (235-03-11143)	Wire net (Wire net)	1 (1)	

3. Contents of the modification

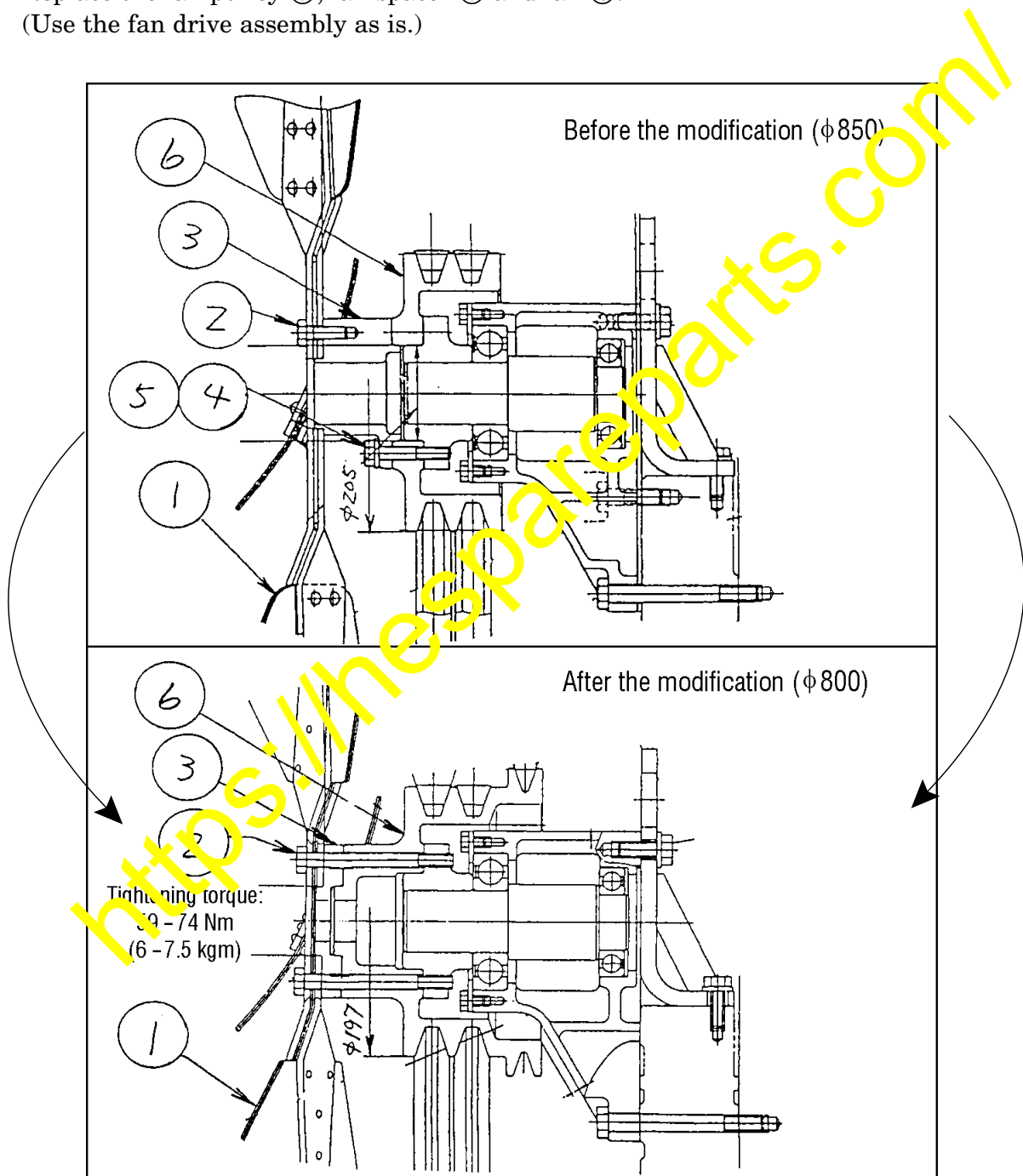
The diameter of the fan has been reduced ( $\phi 850 \rightarrow \phi 800$ ) to raise the resonant revolution rate of the fan.

4. Modification procedures on the engine side

Make the modification according to the designations given in the schematic diagrams indicated below. (Code numbers being used in these diagrams correspond to the item numbers indicated on page 1.)

Replace the fan pulley ⑥, fan spacer ③ and fan ①.

(Use the fan drive assembly as is.)



When adjusting the V-belt after finishing replacement of the fan and the relevant parts, adjust the tension pulley so that the flexure occurring when depressing the center point between the fan pulley and the crank pulley on the V-belt at a force of about 58.8 N (about 6 kg) may become 8 to 12 mm.

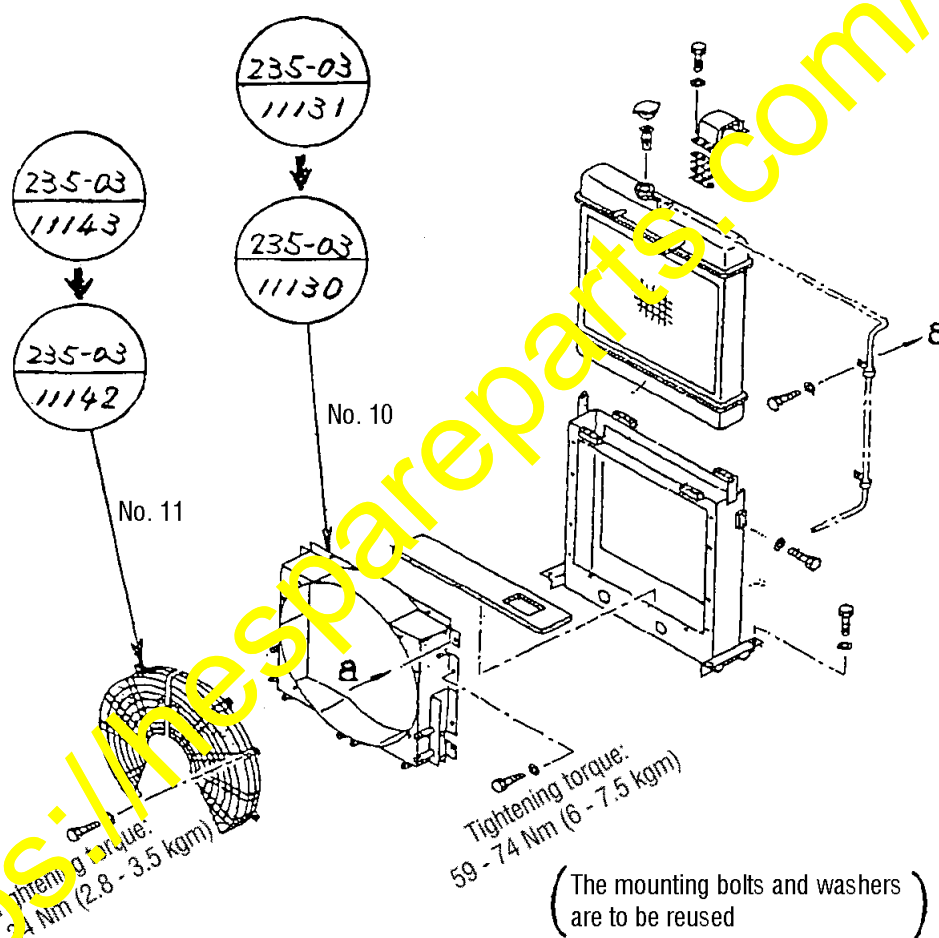
## 5. Modification procedures on the chassis side

Necessary modification on the chassis side to modify the engine fan diameter ( $\phi 850 \rightarrow \phi 800$ ) is to change the radiator shroud and the wire net.

## (1) Remove the radiator.

Remove the radiator referring to the Shop Manual.

## (2) Replace the shroud and wire net.



## (3) Install the radiator onto the chassis.

Install the radiator back onto the chassis referring to the Shop Manual.