

PARTS & SERVICE NEWS

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SUBJECT: REPAIR PROCEDURE OF ECMV FILL SWITCH ON WA1200-3

PURPOSE: To introduce modification procedures to repair the fill switch of the ECMV on WA1200-3 wheel loaders

APPLICATION: WA1200-3 Wheel Loaders, Serial Nos. 50001 thru 50006
(T/M, Serial Nos. 001001 thru 001010)

FAILURE CODE: 15S050

DESCRIPTION:

1. Introduction

With the WA1200-3 wheel loaders, depending on the dispersion in the strength of the parts being used inside the fill switch of the ECMV, the system may detect an open circuit error making it impossible to shift the traveling speed of the machine.

When this failure is found to be occurring, make the modification introduced in this Service News to repair the switch.

2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
42C-15-15012 (42C-15-15011)	Valve ass'y (Valve ass'y)	Reworked		Control valve assembly
42C-15-15702 (42C-15-15701)	ECMV ass'y (ECMV ass'y)			ECMV assembly A component of the 42C-15-15012
42C-15-15602 (42C-15-15601)	ECMV ass'y (ECMV ass'y)			ECMV assembly A component of the 42C-15-15012
42C-13-5801 (42C-13-15200)	ECMV ass'y (ECMV ass'y)			ECMV assembly for the modulation clutch
7861-93-5201 (7861-93-5200)	Switch ass'y (Switch ass'y)	Replacement	(6)	Fill switch using German made connectors
07000-73028 (07000-73028)	O-ring (O-ring)		(6)	Consumable parts

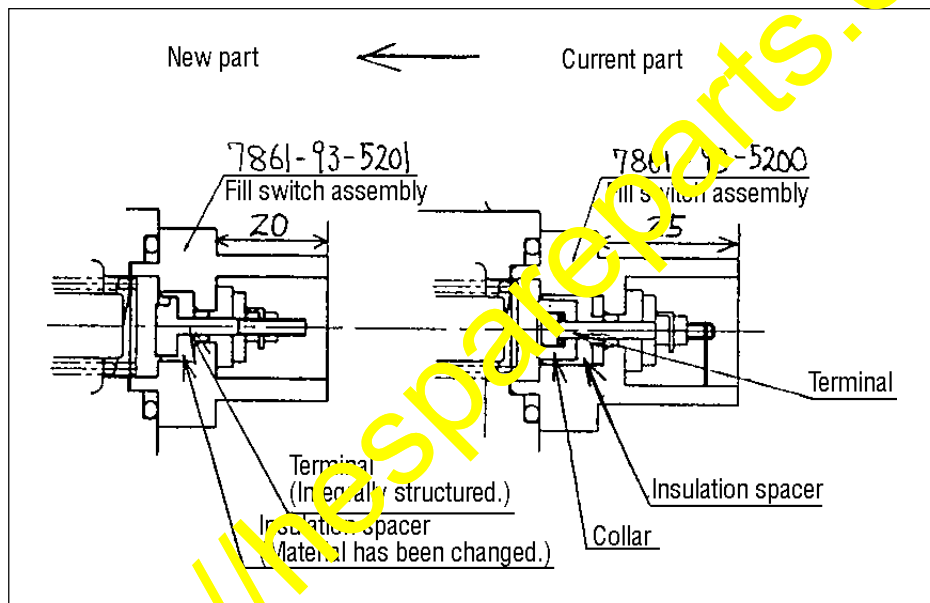
3. Contents of the improvement

By making the following modifications, the conduction reliability of the fill switch has been improved.

- 1) The structure of the terminal has been changed to an integral structure to improve the conduction reliability of the fill switch.

	New structure ←	Current structure
Terminal structure	Integrally structured terminal	Split structure of the collar and the terminal

- 2) The base material of the insulation spacer has been changed to cotton cloth having better joining property for the molded resin material.



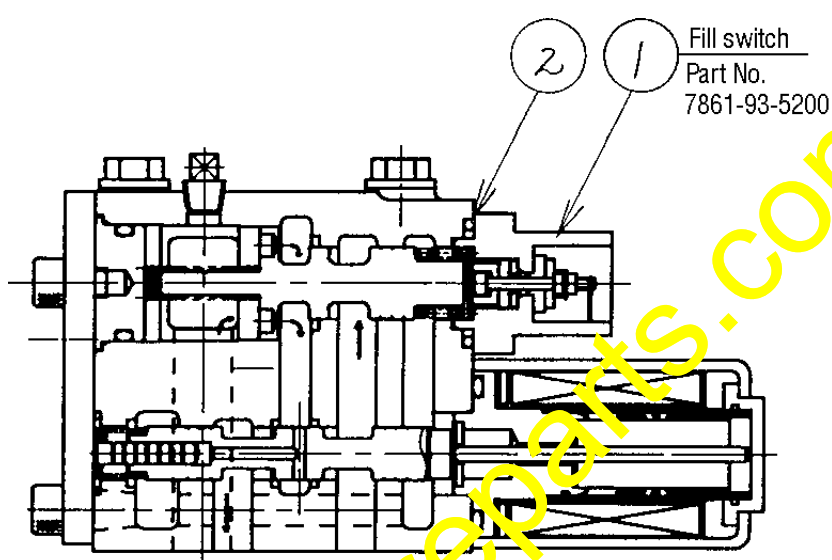
<Fig. 1>

4. Modification procedures

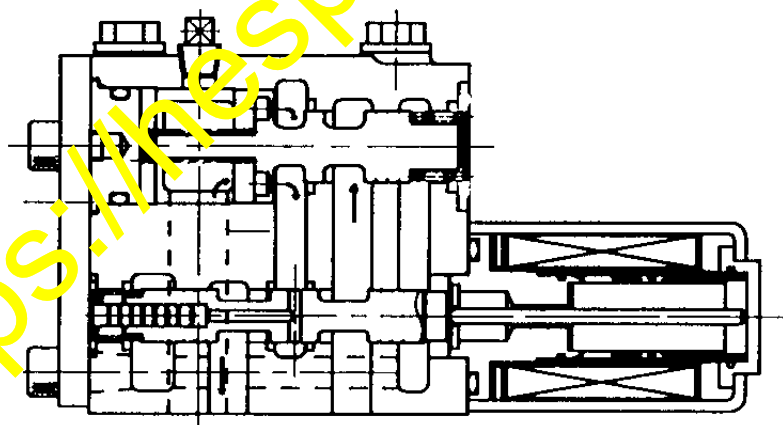
<Caution>

Before removing the fill switch, thoroughly remove mud and sand adhering to the ECMV to prevent entry of foreign substances.

- 1) Remove the fill switch ① and O-ring ② to make the state as shown in Fig. 3 below.

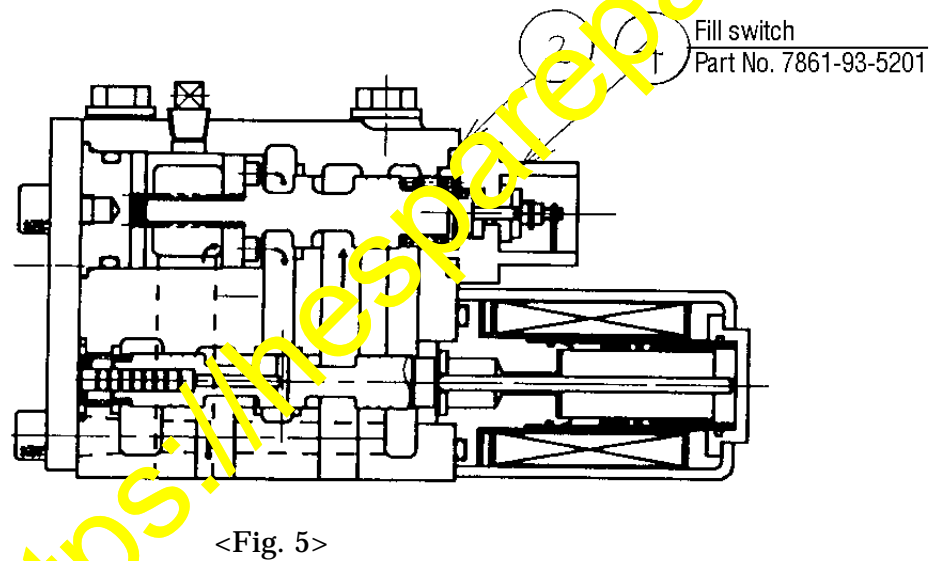
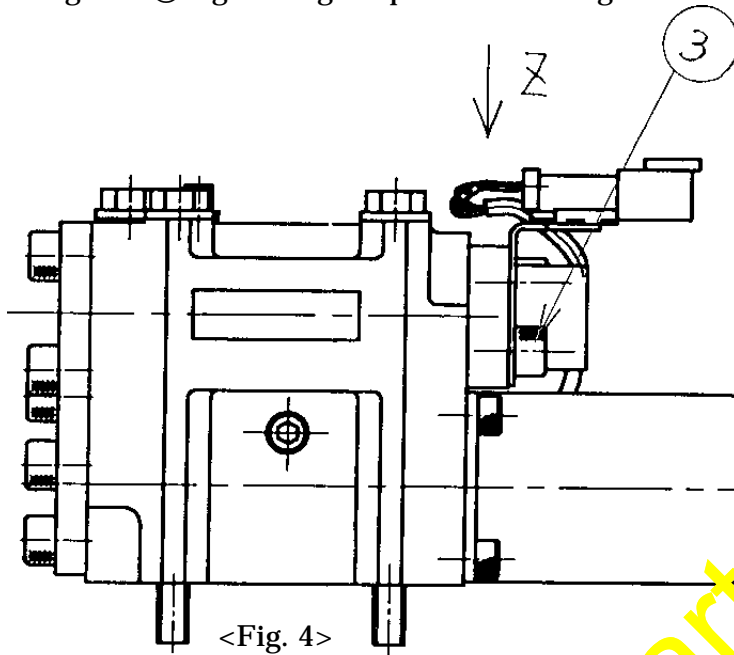


<Fig. 2>



<Fig. 3>

- 2) Install the improved fill switch ④ (Part No. 7861-93-5201).
 - Replace the O-ring ② with a new part.
 - Mounting bolt ③ tightening torque : 2.8 – 3.5 kgm



- 3) Identification methods for the new and current fill switches.

As shown in <Fig. 6> below, the part number (7861-93-5201) is stamped on the surface of the flanged section (hatched section shown in Fig. 6) of the fill switch.

