

# PARTS & SERVICE NEWS

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(C)

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**SUBJECT:** REINFORCEMENT PROCEDURE OF WIRING HARNESSSES ON WA700-3,  
WA800-3 AND WA900-3

**PURPOSE:** To introduce a rework procedure to reinforce wiring harnesses on large-sized  
wheel loaders (WA700, WA800, and WA900).

**APPLICATION:** Komatsu Wheel Loaders:  
WA700-3: 50001 & Up;  
WA700-3L: A50001 & Up;  
WA800-3: 50001 & Up;  
WA800-3LC: A50001 & Up;  
WA900-3: 50001 & Up;  
WA900-3LC: A50001 & Up

**FAILURE CODE:** D530MA

## DESCRIPTION:

### 1. Introduction:

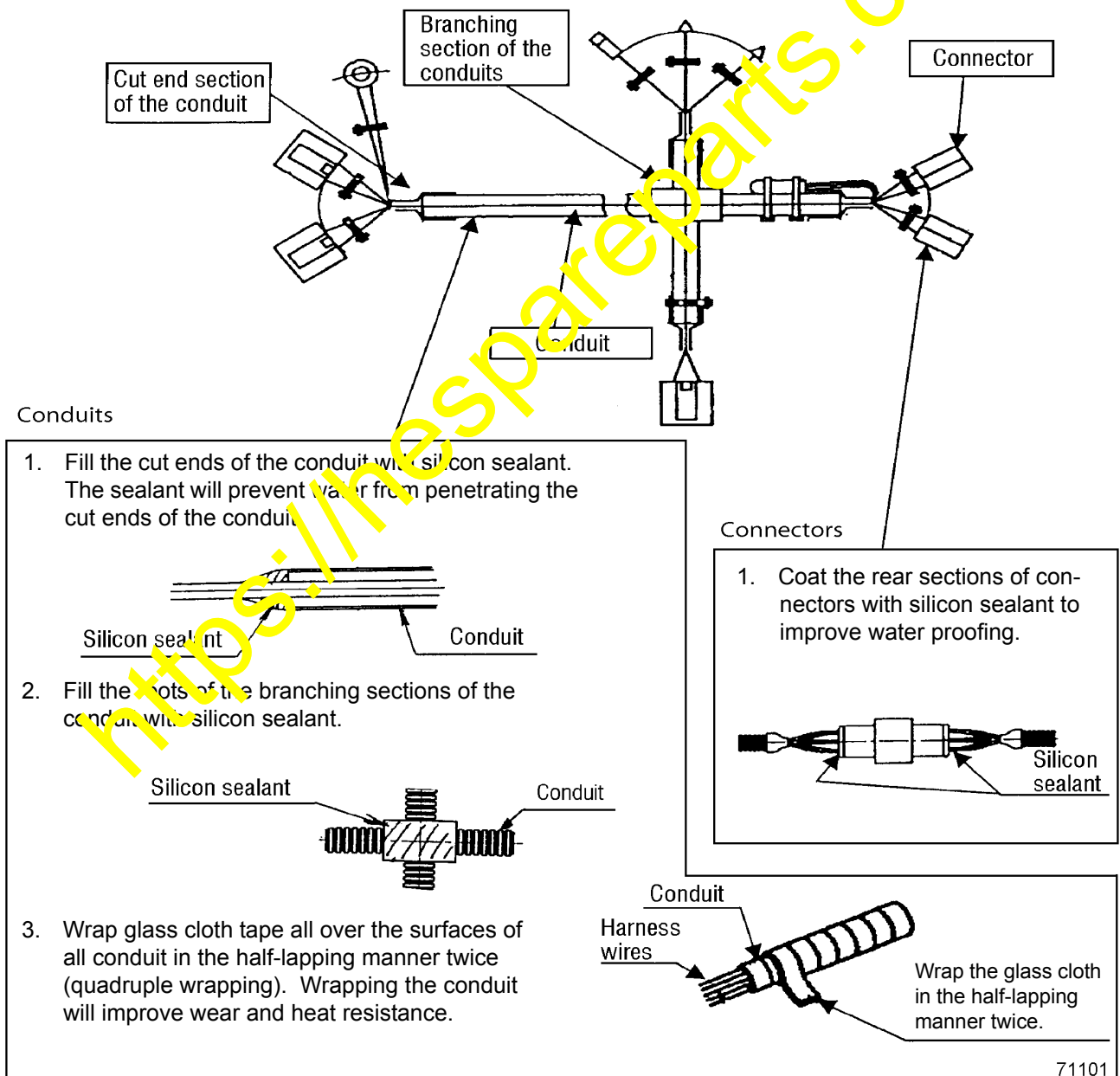
This Parts & Service News will introduce a rework procedure to reinforce wiring harnesses. The reinforcement will improve harness reliability on large-sized loaders (WA700-3, WA800-3 and WA900-3) which are being used in work sites where early stage corrosion is more apt to occur. The reinforcement will also protect the harnesses from machine washing with high pressure water.

2. Necessary Parts:

Number	Part Number	Part Name	Remarks
1	08026-11920 or XA2659	Tape	Glass cloth tape: 10 m; Glass cloth tape: 0.75 in. x 66 ft.
2	195-06-24570 or XA2658	Seal	Silicon sealant; RTV sealant: 300 ml

3. Rework procedure:

- (1) Wrap the glass cloth tape around the harness wire protective conduits to improve their wear resistance and heat resistance.
- (2) Fill the silicon sealant in the rear sections of the connectors, both ends of the conduits and the roots of branching sections of the conduits to improve water proofing.
- (3) Change the harness fastening clamps.



Change the current clamp to the "rubber bushing + clamp" to protect the wiring harness from wear by direct rubbing against the clamp and to improve the durability of the clamped sections. (Refer to Table 1.)

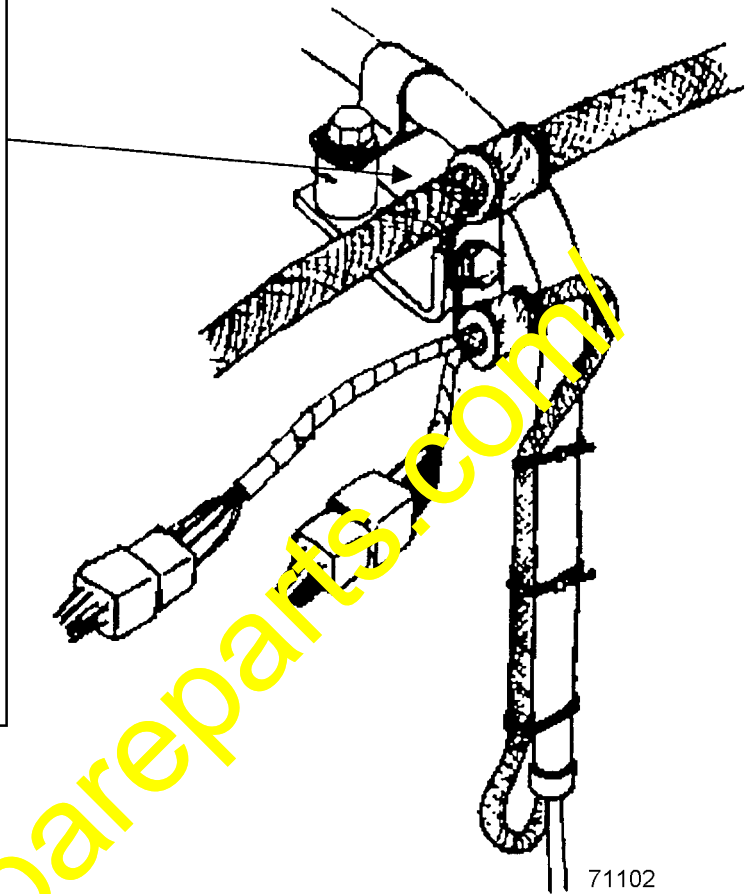
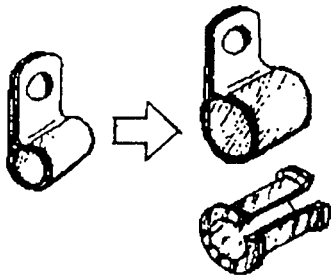
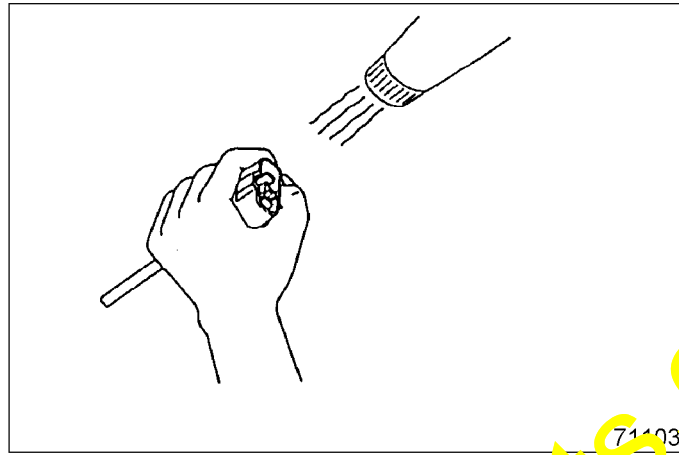


Table 1. Clamps and Bushings

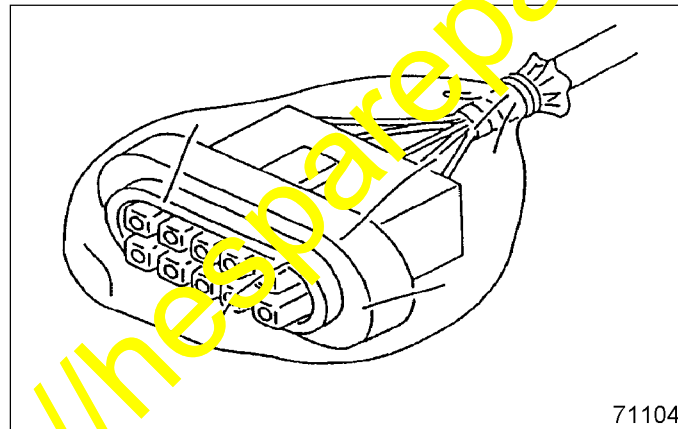
Outer Diameter of Harnesses	Clamps	Bushings	Remarks
7 - 9 mm	04434-51212	198-06-53510	
10 - 12 mm	04434-51412	198-06-53520	
13 - 14 mm	04434-51712	198-06-53530	
15 - 16 mm	04434-51912	198-06-53540	
17 - 18 mm	04434-52112	198-06-53550	
19 mm	04434-52312	198-06-53550	
20 - 22 mm	04434-52512	198-06-53570	
23 - 24 mm	04434-52712	198-06-53580	
25 mm	04434-53212	198-06-53590	
26 - 27 mm	04434-53212	198-06-53610	
28 - 29 mm	04434-53412	198-06-53610	
30 - 31 mm	04434-53412	198-06-53630	

Precautions when performing rework procedure for the harnesses:

- (1) When separating the connectors, check and make sure that water is not penetrating into the inside of the connectors. When water has penetrated into the internal structure of the connector, dry up the penetrated water using a hair dryer.



- (2) When connectors are separated, cover them with poly-bags, so that dirt, dust, water and oil do not enter into the connecting sections and prevent solid connections.



- (3) When reconnecting the separated connectors, make visual inspections of the connectors before actually connecting them.

- (1) Check and make sure that the pin surfaces (connecting surfaces) are free from adhesion of oil, dust, water, etc.
- (2) Check and make sure that the connector pins are free from deformations and imperfect connections, corruptions, flaws, etc.
- (3) Check and make sure that the external covers of the connectors are free from scratches and damage.
- (4) When connecting the connectors, match the connecting positions of the connectors properly to insert them securely. Regarding claw connectors, insert the connectors until a "click" is heard.

