

PARTS & SERVICE NEWS

REF NO.	AA03003
DATE	January 6, 2003

SUBJECT: ADD FLEXIBLE CONDUIT AND REROUTE HARNESS

PURPOSE: To prevent mono lever harness failures.

APPLICATION: WA120-3MC Wheel Loader Serial Number A31001 to A31069
 WA180-3MC Wheel Loader Serial Number A81001 to A81303
 WA250-3MC Wheel Loader Serial Number A71001 to A71780
 WA180PT-3MC Tool Carrier Serial Number A88001 to A88098
 WA250PT-3MC Tool Carrier Serial Number A78001 and up

FAILURE CODE: D511-KA

DESCRIPTION: The mono lever wiring harness is rubbing against the right box cover. It is damaged enough to make the kick down switch fail. To avoid the damage, a flexible conduit is required. Rerouting the wiring harness will also improve its position. This document is to advise the field of this improvement, provide installation instructions and identification of the new parts.

PARTS REQUIREMENT

WA120-3MC, WA180-3MC, WA180PT-3MC

Item	Part No.	Description	Qty
①	421-06-25570	SWITCH, KNOB	1
②	418-06-A1690	HEAT SHRINK	1
③	08056-00211	BODY, MALE	1
④	08056-00230	HOLDER, REAR	1
⑤	08056-00050	TERMINAL, MALE	2
⑥	08017-30701	CONDUIT, FLEXIBLE	1

WA250-3MC, WA250PT-3MC

Item	Part No.	Description	Qty
①	421-06-25570	SWITCH A, KNOB	1
②	418-06-A1690	HEAT SHRINK	1
③	08056-00211	BODY, MALE	2
④	08056-00230	HOLDER, REAR	2
⑤	08056-00050	TERMINAL, MALE	4
⑥	08017-30701	CONDUIT, FLEXIBLE	1
⑦	421-06-25580	SWITCH B, KNOB	1

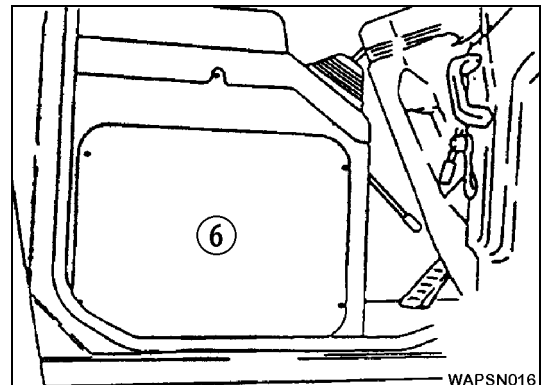
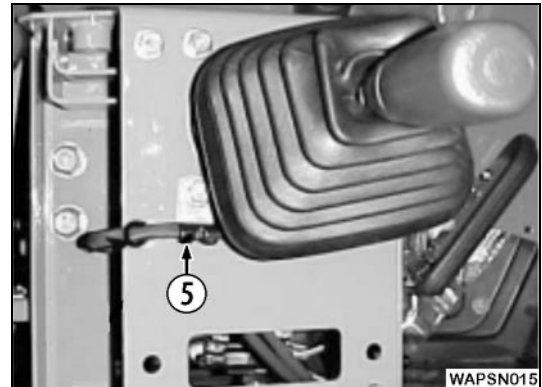
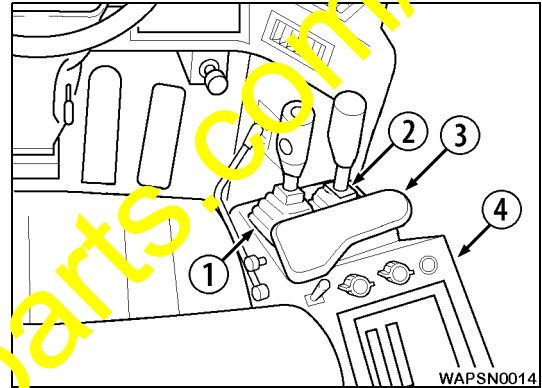
MACHINE PREPERATION

★ The following callouts in Steps 1 through 6 do not apply to the **Parts Requirement List**.



WARNING! Please observe all safety and precautionary standards as dictated by the environment and work conditions, under which the equipment will be inspected, reworked and repaired, Consult the appropriate Shop Manual, Operators and Maintenance Manual and your KOMATSU district service manager with any and or all questions regarding safety.

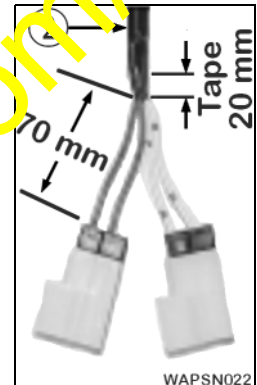
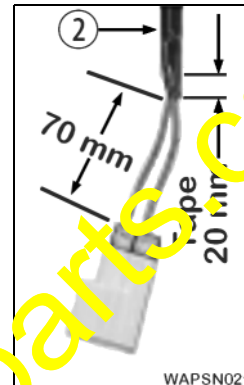
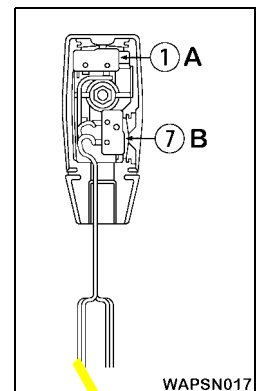
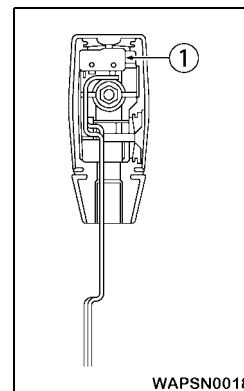
1. Stop the machine on level ground and install the safety bar on the frame. Lower the bucket to the ground, stop the engine and remove the keys. Then apply the parking brake and block the wheels to prevent the machine from moving.
2. Disconnect the cable from the negative terminal of the battery. Attach a Do NOT operate tag to the controls.
3. Remove the mono lever boot ① and the 3rd spool lever boot ②, PT machines only. Remove the arm rest ③.
4. Remove the four screws and the cover of the right box ④.
5. Release the wiring harness clip ⑤.
6. Remove the plate ⑥ to access the inside of the right box.
7. WA120-3MC, WA180-3MC and WA180PT-3MC; Disconnect the connector CN1 L31 from CN L34 of the floor harness.
7. WA250-3MC and WA250PT-3MC; Disconnect the connector CN2 RM14 and CN1 L39 from CN L39 and CN L77 respectively of the floor harness.
8. WA120-3MC, WA180-3MC and WA180PT-3MC; Disassembly the mono lever knob and remove the switch harness, connectors and heat shrink and discard.
8. WA250-3MC and WA250PT-3MC; Disassembly the mono lever knob and remove switches **A** and **B**, harness, connectors and heat shrink and discard.



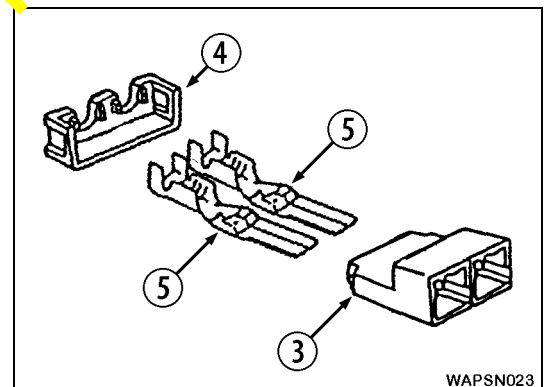
INSTALLATION

★ The following callouts in Steps 1 through 6 apply to the **Parts Requirement List**.

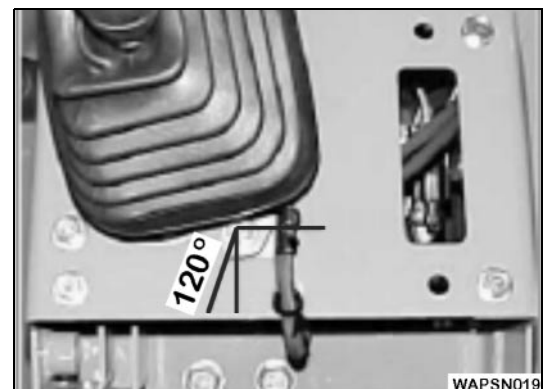
1. WA120-3MC, WA180-3MC and WA180PT-3MC; Install the switch ① to the lever knob with the heat shrink ② to the dimension shown.
1. WA250-3MC and WA250PT-3MC; Install the switches ① A and ⑦ B to the lever knob with the heat shrink ② to the dimension shown.



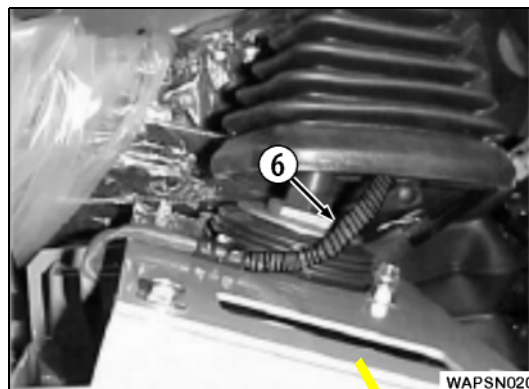
2. Install the body ③, rear holder ④ and terminal ⑤ to the switch wires. Install the flexible split conduit ⑥ to each harness.



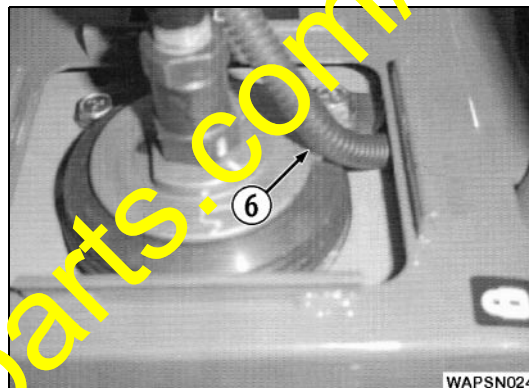
3. Reinstall the knob turned 120° from the initial position.
4. Plug the mono lever wiring harness (es) in to floor wiring harness connectors inside the right box. Assemble the knob and the right box cover.



5. After installing the right cover, make sure that there is no contact between the harness and the right box cover.



6. Install the boot (figure 1) and the side plate of the right box. Install the arm rest.
7. Confirm functionality of the switches and make the necessary repair if needed. Release the machine for service.



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