

# PARTS & SERVICE NEWS

REF NO.	AA03038
DATE	February 5, 2003

**SUBJECT:** ADJUSTABLE T/M CUT OFF SWITCH

**PURPOSE:** To introduce to the field an adjustable T/M cut off switch.

**APPLICATION:** WA500-3L Wheel Loader Serial Number A70001 to A70832  
WA500-3LK Wheel Loader Serial Number A71001 and up

**FAILURE CODE:** DDT4Z9

**DESCRIPTION:** The T/M cut off pressure switch can be adjusted to fit the machine application, providing smoother operation.

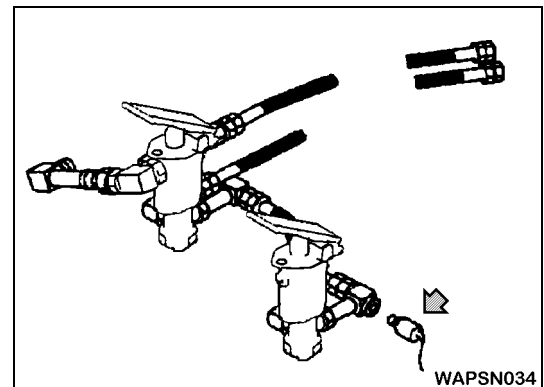
## REQUIRED PARTS

Item	Service Part	Description	Qty	Old Part
①	425-06-A2330	ADJUSTABLE T/M CUT OFF SWITCH.....	1	419-06-21120
②	7821-91-8220	CONNECTOR BODY.....	1	---
③	7821-91-8420	HOLDER.....	1	---
④	7821-91-8010	TERMINAL.....	2	---
⑤	7821-91-8110	TERMINAL GROMMET.....	2	---
⑥	425-06-A2340	SWITCH ADAPTER.....	1	---

**WARNING!** Follow the safety precautions as stated in Section 1 of the Operation & Maintenance Manual when performing the following procedures.

## REMOVAL

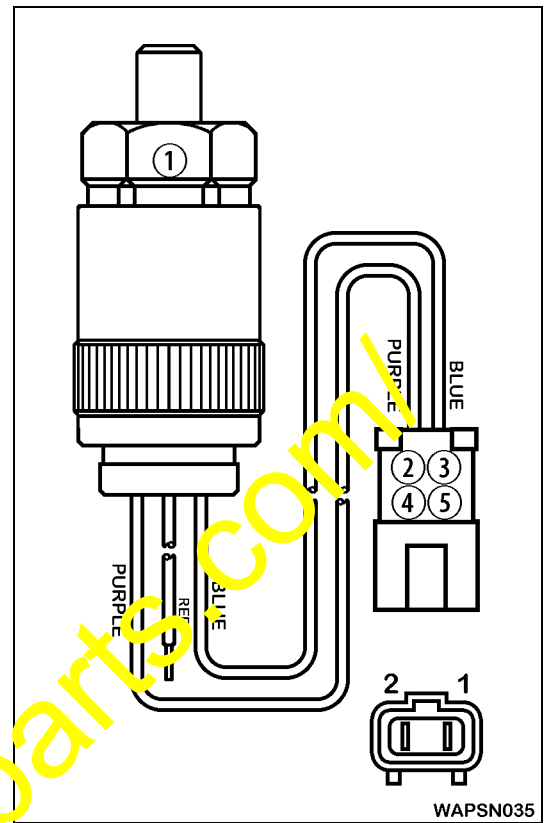
1. Remove the factory installed T/M cut off switch from the left brake valve.



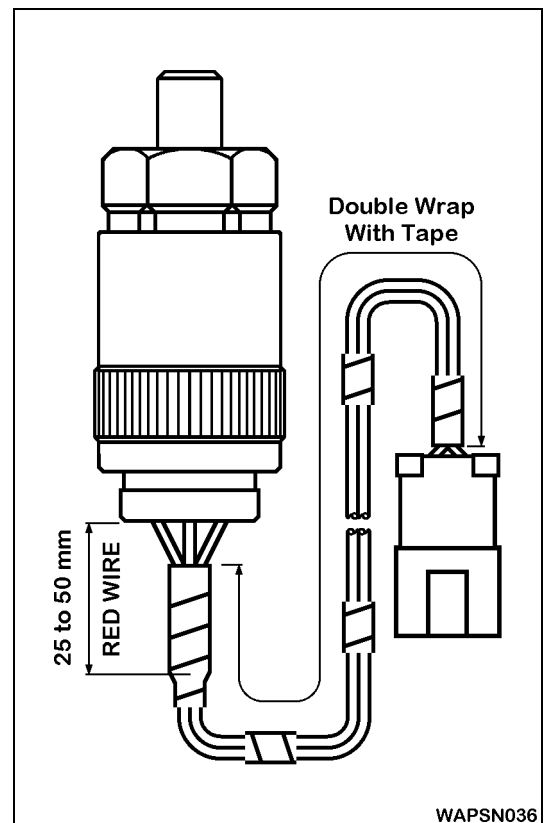
## PREPERATION

1. Install the two pin connector ② through ⑤ to the adjustable switch ① wires. Attach the blue wire to pin 1 and the purple wire to port 2.

★ Only the blue and purple wires are used in this application.

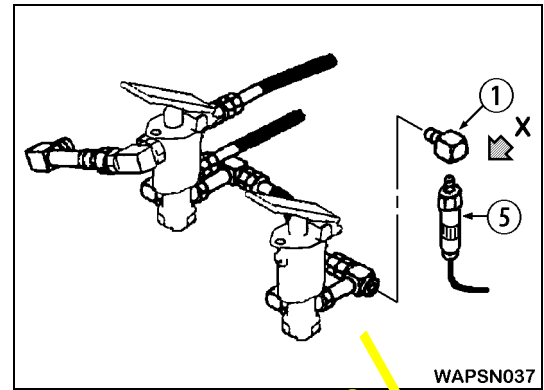


2. Cut the red wire to 25 to 50 mm in length.
3. Double wrap the wires with electrical tape from the base of the connector to the switch as shown.

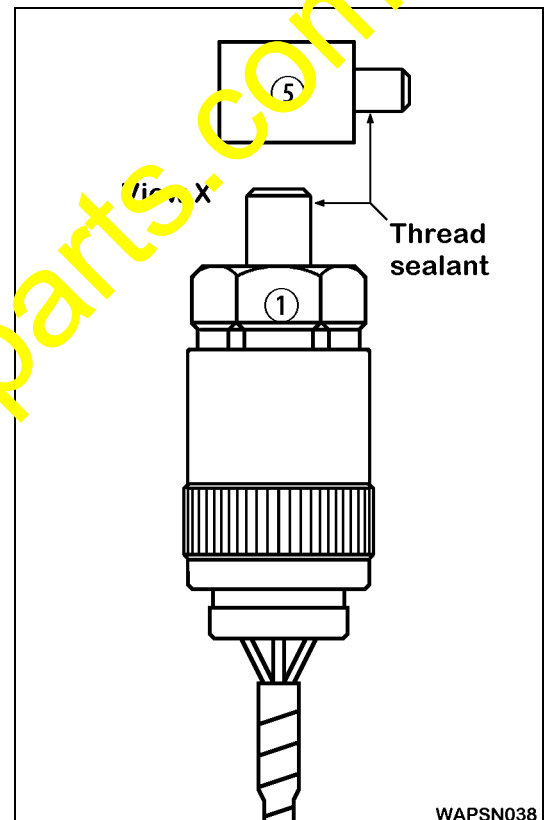


## INSTALLATION

1. Apply thread sealant to the threads of the adapter elbow ⑤. Install the elbow with the outlet port facing down.
2. Apply thread sealant to the threads of the adjustable switch ① and install in the adapter elbow ⑤.



- ★ Install the adjustable switch vertically as shown in View X. This will reduce the effect of vibration on the switch caused by its length and weight.

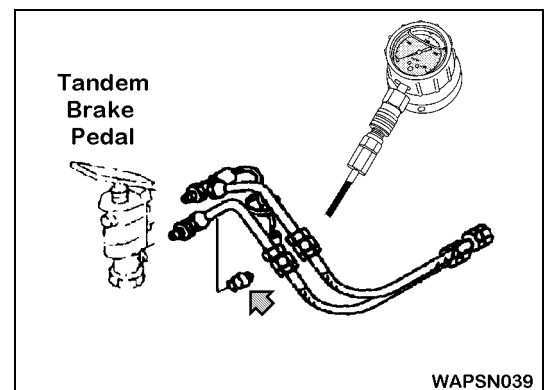


## ADJUSTING PRESSURE SET POINT

### Preparation

1. Remove the plug from the bottom rear elbow at the tandem brake valve. Install a pressure gauge with a hose long enough so that the gauge can be read in the cab.
2. Connect the adjustable cut off switch connector to a harness checker.

- ★ **Do Not** connect the female connector on the floor frame harness.



3. Connect a meter, set to measure ohms, to the harness checker with a lead long enough so that the meter can be read in the cab.

### Setting Pressure

1. Start the machine and put the T/M in neutral. The machine must be on level ground with the tires blocked.
- ★ At this point, the pressure should be 0 kg/cm<sup>2</sup> and the resistance should be less than 1 Ω.
2. Slowly apply the brake using the left pedal. When the pressure in the brake line reaches the set point of the switch, the resistance will increase to a meter reading of 1 MΩ or OL (over load). Note the pressure at this point.
3. The initial target pressure is 10.5 kg/cm<sup>2</sup>. If the measured pressure is less than the target turn the adjustment sleeve clockwise to increase the set point. If the measured pressure is greater than the target turn the adjustment sleeve counter-clockwise to decrease the set point.
4. After operating at the initial set point of 10.5 kg/cm<sup>2</sup> the pressure can be adjusted up or down based on the feedback from the operator.

