

PARTS & SERVICE NEWS

REF NO.	AA02246
DATE	November 14, 2002

SUBJECT: TRANSMISSION CONTROLLER

PURPOSE: To reduce the banging noise in the transmission when shifting between forward and reverse

APPLICATION: WA500-3L Wheel Loader Serial Number A70001 through A70832

FAILURE CODE: DAQ0GA

DESCRIPTION: In some applications a banging sound may be heard when shifting between forward and reverse directions. This sound will be most noticeable when shifting while the machine is still rolling. The cause may be either the floor harness connected to the T/M controller or the controller itself.

REQUIRED PARTS

Part Number	Description	Quantity
7823-15-1004	T/M Controller (★)	1
425-06-22853	Floor Harness	1

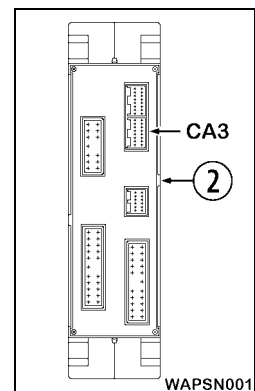
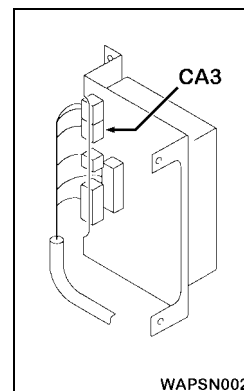
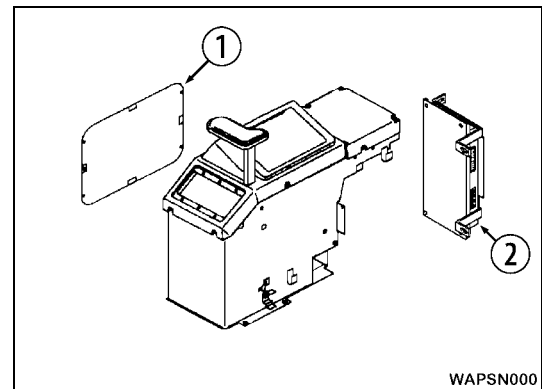
★ Only needed if the harness is eliminated as the cause.

PROCEDURE

★ It will first be necessary to confirm that the wiring harness is not the cause. The controller should be replaced only after the harness has been eliminated as the cause.

Harness Check

1. Park the vehicle on a level surface and apply the parking brake. Turn off the starter switch.
2. Remove the cover ① from the right console box.
3. Disconnect the harness connector **CA3** at the transmission controller ②. Connect a T adapter to the harness connector.



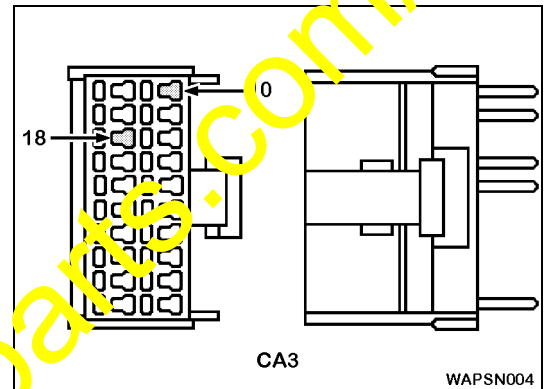
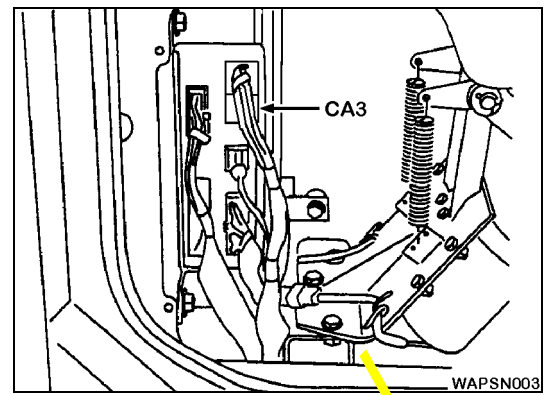
- Check the pin locations 10 and 18 on the wiring harness for the following;

C3A Pin No.	Check
10	Ground, No Voltage
18	No Pin

- If the above items are as shown then the controller needs to be replaced. See **Controller Replacement**.
- If C3A-10 results in anything other than a ground connection, the harness must be replaced.
- If C3A-18 is found to contain a pin use the wiring diagram for the proper location.

Controller Replacement

- Remove the six connectors from the transmission controller. Remove the hardware holding the controller to the bracket.
- Remove the old controller and install the new one. Install the six connectors making sure that they are fully seated.
- Install the side cover to the right console box.
- Follow the "**Transmission Controller**" relearning procedure as outlined in Section 20 in the Shop Manual.



Wiring Diagram	Pin	Terminal	Component	Notes
C1 - MID 10	1-30V	015	258	TRX SIGNAL - ROTARY
	1-30V	016	259	TRX SIGNAL - ROTARY
	1-30V	017	260	TRX SIGNAL - ROTARY
	1-30V	018	261	TRX SIGNAL - ROTARY
	1-30V	019	262	TRX SIGNAL - ROTARY
	1-30V	020	263	TRX SIGNAL - ROTARY
	1-30V	021	264	TRX SIGNAL - ROTARY
	1-30V	022	265	TRX SIGNAL - ROTARY
	1-30V	023	266	TRX SIGNAL - ROTARY
	1-30V	024	267	TRX SIGNAL - ROTARY
C1 - MID 20	1-30V	025	268	TRX SIGNAL - ROTARY
	1-30V	026	269	TRX SIGNAL - ROTARY
	1-30V	027	270	TRX SIGNAL - ROTARY
	1-30V	028	271	TRX SIGNAL - ROTARY
	1-30V	029	272	TRX SIGNAL - ROTARY
	1-30V	030	273	TRX SIGNAL - ROTARY
	1-30V	031	274	TRX SIGNAL - ROTARY
	1-30V	032	275	TRX SIGNAL - ROTARY
	1-30V	033	276	TRX SIGNAL - ROTARY
	1-30V	034	277	TRX SIGNAL - ROTARY
C1 - MID 30	1-30V	035	278	TRX SIGNAL - ROTARY
	1-30V	036	279	TRX SIGNAL - ROTARY
	1-30V	037	280	TRX SIGNAL - ROTARY
	1-30V	038	281	TRX SIGNAL - ROTARY
	1-30V	039	282	TRX SIGNAL - ROTARY
	1-30V	040	283	TRX SIGNAL - ROTARY
	1-30V	041	284	TRX SIGNAL - ROTARY
	1-30V	042	285	TRX SIGNAL - ROTARY
	1-30V	043	286	TRX SIGNAL - ROTARY
	1-30V	044	287	TRX SIGNAL - ROTARY
C1 - MID 40	1-30V	045	288	TRX SIGNAL - ROTARY
	1-30V	046	289	TRX SIGNAL - ROTARY
	1-30V	047	290	TRX SIGNAL - ROTARY
	1-30V	048	291	TRX SIGNAL - ROTARY
	1-30V	049	292	TRX SIGNAL - ROTARY
	1-30V	050	293	TRX SIGNAL - ROTARY
	1-30V	051	294	TRX SIGNAL - ROTARY
	1-30V	052	295	TRX SIGNAL - ROTARY
	1-30V	053	296	TRX SIGNAL - ROTARY
	1-30V	054	297	TRX SIGNAL - ROTARY
C1 - MID 50	1-30V	055	298	TRX SIGNAL - ROTARY
	1-30V	056	299	TRX SIGNAL - ROTARY
	1-30V	057	300	TRX SIGNAL - ROTARY
	1-30V	058	301	TRX SIGNAL - ROTARY
	1-30V	059	302	TRX SIGNAL - ROTARY
	1-30V	060	303	TRX SIGNAL - ROTARY
	1-30V	061	304	TRX SIGNAL - ROTARY
	1-30V	062	305	TRX SIGNAL - ROTARY
	1-30V	063	306	TRX SIGNAL - ROTARY
	1-30V	064	307	TRX SIGNAL - ROTARY

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