Daimler Buses North America Recall Bulletin

Orion V, VII Models
NHTSA 10V-015 / Transport Canada Number 2010006

REMOTE THROTTLE CONTROL RECALL NOTICE

Recall Number

National Traffic and Motor Vehicle Safety (NHTSA) Recall Number: 10V-015

Transport Canada Number: 2010006.

Subject

SAFETY DEFECT - Remote Throttle Control.

Certain Vehicles Affected

Model(s): Orion V, VII

Model Years: 2000-2008, only Orion V and Orion VII buses having both a remote throttle control and a Cummins or John Deere engine.

USA	CANADA
Orion V 2000-2002	Orion V 2007
Orion V 2005	Orion VII 2002
Orion V 2008	
Orion VII 2003-2004	
Orion VII 2006	

Bus Production Dates: Beginning: March 2000.
Ending: February 2010.

General Information

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Daimler Buses North America (DBNA) has determined that a defect which relates to motor vehicle safety exists in some of its transit buses.

Defect

The Morse Remote Throttle Control panel is located in the engine compartment. It is used to operate the engine during maintenance. On the Remote Throttle Control panel a switch is labeled "THROTTLE" - "OFF" or "ON" - "FRONT" or "REAR." If maintenance personnel operating the engine from the engine compartment using the Morse Remote Throttle Control fail to place the "THROTTLE" switch in the "OFF" or "FRONT" position when maintenance is completed, and the engine RPM has been set to above idle, the engine could change to the higher RPM when the bus is first started after maintenance from the driver's position, resulting in unwanted engine power.

Failure To Upgrade

During engine maintenance a bus could accelerate at a higher rate than anticipated the first time the engine is started from the driver's position, increasing the risk of a crash. The condition is limited to the first engine start-up after maintenance and will not occur randomly during operation of a bus in revenue service.

Cost To Remedy

Labor of ½ hour to complete the instructions provided in Recall Bulletin will be provided free of charge by submitting the Record of Completion and a claim for reimbursement as outlined in the DBNA warranty claim form.

Reimbursement will be issued only after the Record of Completion has been submitted to DBNA. The campaign number and the date the work was performed must be included on the work order submitted with the warranty claim form. For warranty claim form completion instructions see Section 5-5 of the DBNA Warranty & Policy Manual. Send calim for reimbursement to either:

Daimler Buses North America
c/o Warranty Department
165 Base Road, Box 748
Oriskany, NY 13424-0748
Tel: 1-800-71-ORION (1-800-716-7466)
Fax: (315) 768-8414

Daimler Buses North America
c/o Warranty Department
350 Hazelhurst Road
Mississauga, Ontario L5J 4T8
Tel: (905) 403-1111
Fax: (905) 403-8800

Record of Completion

Fax Record of Completion for each vehicle to Waranty Department at (905) 403-8800.

Inquiries

Contact DBNA Service at 1-800-71-ORION (1-800-716-7466).

If this repair was performed before receiving the Recall Bulletin, you may be eligible for reimbursement of the cost. Please notify DBNA to obtain a pre-notification remedy to the recall.

In Case of Dispute

US RESIDENTS

If, after contacting DBNA at the location listed above, you are still unable to have the safety defect remedied, US residents may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590. Vehicle Safety Hotline's toll free number: 1-888-327-4236 (TTY: 1-800-424-9153); or go to http://www.safercar.gov.

Introduction

This procedure involves rewiring the rear engine panel Throttle Switch to the Ignition Control Switch.

The following instructions identify three variations of wiring configurations; Type A, Type B, and Customized. **Please see the Record of Completion for the type applicable to each bus.**

TYPE	PART NUMBER	DESCRIPTION	QUANTITY
A		WIRE - 16 GA	As Required
		RING TERMINAL	2
		ADHESIVE HEAT SHRINK - AUTOMOTIVE GRADE	As Required
B		SOLDER	As Required
		ADHESIVE HEAT SHRINK - AUTOMOTIVE GRADE	As Required
	011091003	W/P CAVITY PLUG	1
CUSTOMIZED		*CONTACT DBNA SERVICE AT (1-800-716-7466)*	

Inspection

NOTE

This rework is applicable to Cummins and John Deere engines only.

Safety Precautions

- Follow workshop safety procedures before starting work on the bus.
- Follow all safety procedures outlined in the Orion service manual.

1. Examine the rear engine panel for the installation of the Rear Throttle switch. See **Figure 1-1**.

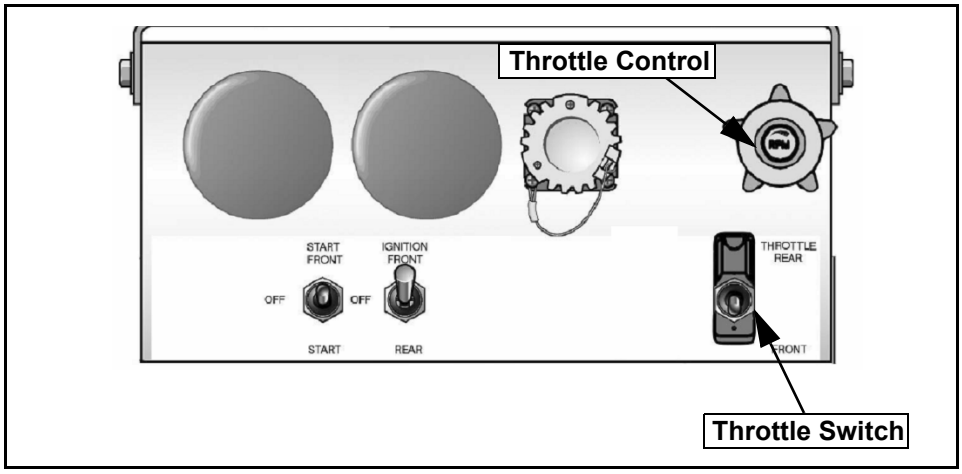

FIGURE 1-1 THROTTLE SWITCH - REPRESENTATIVE IMAGE

   a. If the rear engine panel is equipped with the Rear Throttle switch, the wiring must be reworked. Proceed to **step 2.**

   b. If the rear engine panel is not equipped with the Rear Throttle switch, no rework is required. Complete the Record of Completion noting that no Rear Throttle switch exists.

2. Turn the battery isolator switch to the OFF position.

3. Remove rear engine control panel and inspect rear panel wiring to identify throttle control type. See **Figure 1-2**.

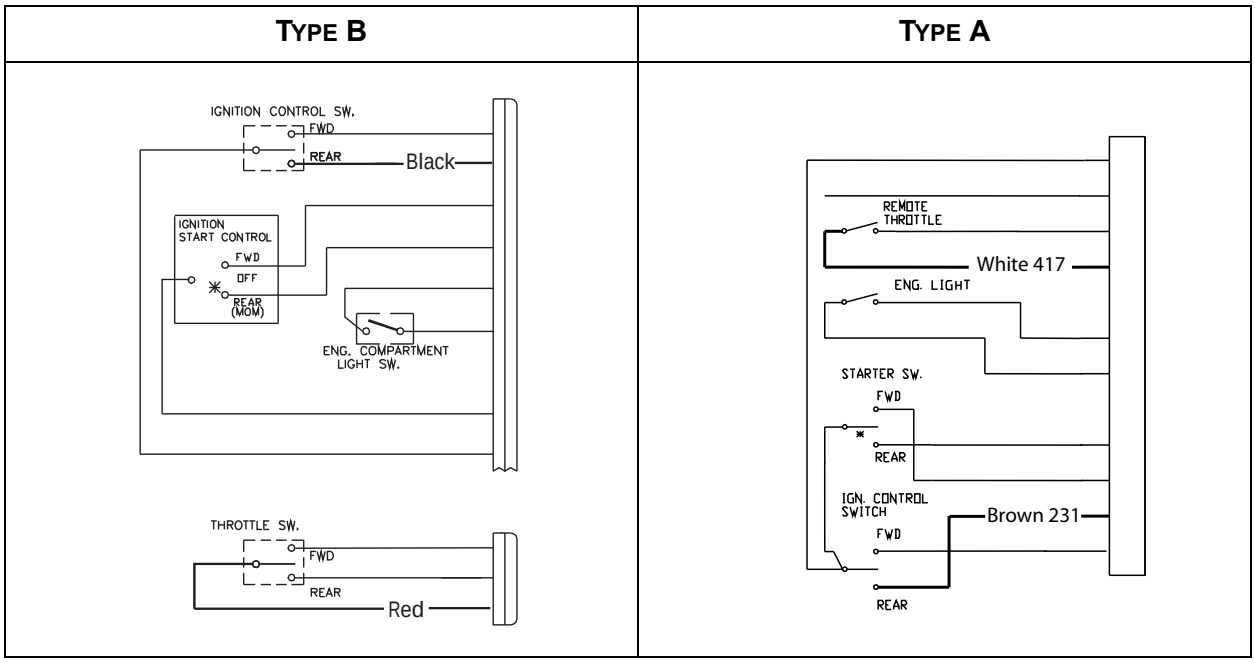

FIGURE 1-2 REMOTE THROTTLE CONFIGURATIONS

4. System identification:
   - Type B go to **"TYPE B Procedure".** See Record of Completion.
   - Type A go to **"TYPE A Procedure".** See Record of Completion.
   - If neither Type B or A, configuration is Customized. Contact DBNA service at 1-800-716-7466.

Procedures

TYPE B Procedure

CAUTION !

Ensure that the battery isolator switch is in the OFF position before proceeding with this rework.

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1. Access the backside of the rear engine panel as necessary.
2. Locate the THROTTLE SWITCH connector on the rear engine control panel.
3. Remove the RED wire from the THROTTLE SWITCH connector (pin "B").
4. Remove pin terminal from RED wire.
5. Cut the BLACK wire to the IGNITION switch.
6. Strip the end of BLACK wire attached to IGNITION switch.

7. Twist the RED wire from THROTTLE SWITCH together with stripped end of BLACK wire attached to IGNITION switch.
8. Strip remaining end of BLACK wire attached to vehicle harness.
9. Slide 1" section of automotive grade adhesive heat shrink tubing onto BLACK wire attached to vehicle harness.
10. Twist the BLACK wire from step 5 together with the RED/BLACK connection from step 3.
11. Solder twisted RED/BLACK wires from IGNITION switch to stripped end of BLACK wire from vehicle harness.
12. Slide heat shrink over soldered connection and apply heat to seal the connection.
13. Insert W/P cavity plug into empty cavity B of THROTTLE SWITCH connector. Reworked configuration should appear as shown in **Figure 1-3**.

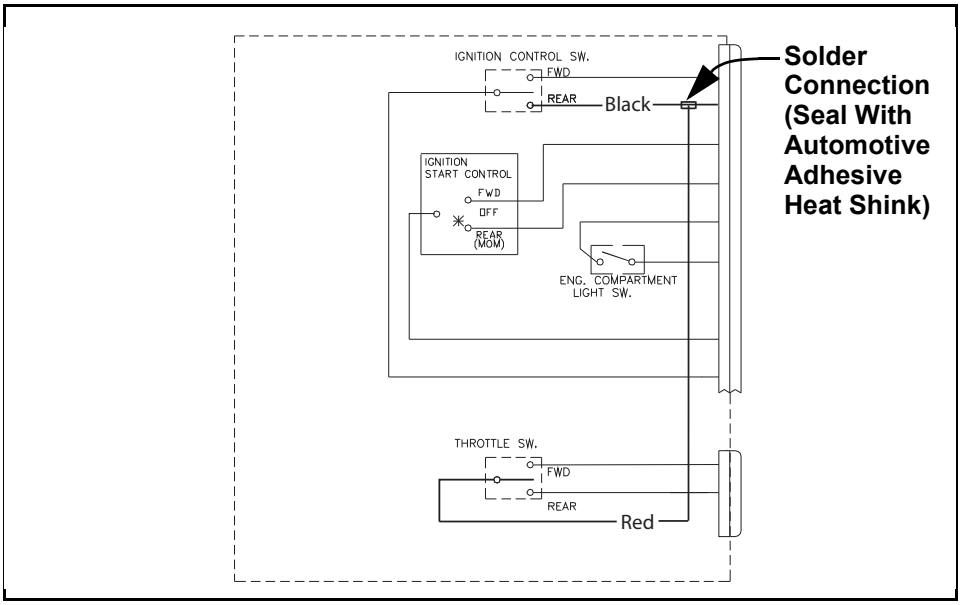

FIGURE 1-3 TYPE B - REWORKED

14. Reinstall rear engine panel as necessary.
15. Turn the battery isolator switch to the ON position.
16. Proceed to **"Functional Check" on page 8**.

TYPE A Procedure

CAUTION !

Ensure that the battery isolator switch is in the OFF position before proceeding with this rework.

1. Access the backside of the rear engine panel as necessary.
2. Remove the white wire labeled 417 ring terminal from the REMOTE THROTTLE switch. Insulate this wire end by cutting the terminal off and sealing the end of the wire with automotive grade adhesive heat shrink insulation.
3. Make a wire assembly of 16 AWG wire having a ring terminal on each end sized the same as that removed from White wire 417. The length of wire shall run from the REMOTE THROTTLE switch on the remote panel box to the IGNITION switch where the Brown 231 terminal connects.
4. Connect this wire assembly to the terminal where the wire labeled 417 ring terminal was on the REMOTE THROTTLE switch.
5. Connect the other end of this wire assembly to the remote panel box IGNITION switch where the Brown 231 terminal connects. Stack the existing Brown 231 terminal and the new wire assembly.
6. Verify that the Brown 231 terminal has continuity to ground. Reworked configuration should appear as shown in **Figure 1-4**.

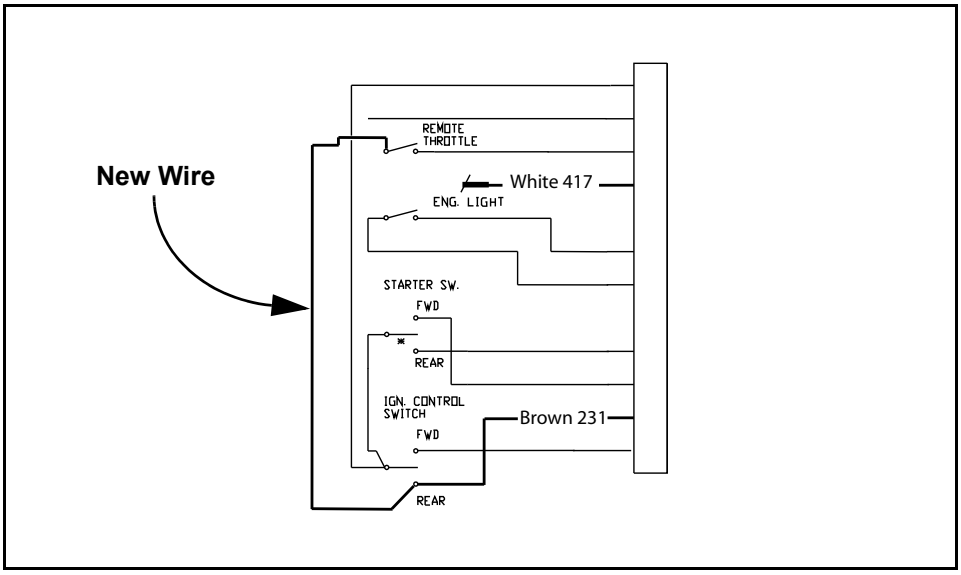

FIGURE 1-4 TYPE A - REWORKED

7. Reinstall rear engine panel as necessary.
8. Turn the battery isolator switch to the ON position.
9. Proceed to **"Functional Check" on page 8**.

Functional Check

NOTE

Set the parking brake and chock the wheels before proceeding.

I. Remote Throttle Switch Rewire Operational Function Check

1. On rear engine panel, set IGNITION switch to “REAR.”
2. Turn "RPM" knob to engine idle.
3. Set THROTTLE switch to “REAR” position.
4. Start engine using the rear control (“START”).
5. Turn the rear engine idle RPM controller to confirm there is an RPM increase.
   - If RPM increases go to **step 6.**
   - If RPM does not increase recheck wiring or contact DBNA Service at 1-800-716-7466.
6. Return the engine idle RPM controller to the idle position.
7. Set the THROTTLE switch to the “FRONT” position.
8. Turn the rear engine idle RPM controller to confirm there is NO RPM increase.
   - If idle increases contact DBNA Service at 1-800-716-7466.
   - If idle does not increase, proceed to step 9.
9. Return the engine idle RPM controller to the idle position.
10. Proceed to: **II. Driver’s Area Operational Check**.

II. Driver’s Area Operational Check

NOTE

Leave transmission in neutral for the following operational check.

1. Set THROTTLE switch to the “REAR" position.
2. Turn engine idle RPM controller to set engine RPM to an audible distinguishable RPM increase (Example: 1500 RPMs).
3. Set IGNITION switch to “OFF” to shut the engine off (without decreasing the RPM knob.
4. Set IGNITION switch to “FRONT” (***Do not set the REMOTE THROTTLE switch to “OFF”***).
5. Set START switch to “FRONT.”
6. Start engine at the operator’s compartment and verify normal idle RPM.

7. Close doors.
8. Release parking brake.
9. Note engine RPM:
   a. Press service brake to release brake interlock and verify engine RPM response. Engine shall remain at idle RPM.
   b. Depress accelerator slowly and verify that there is no engine RPM response to accelerator position. Engine shall remain at idle RPM.
   c. If RPM increases with actions in **a.** or **b.**, recheck wiring or contact DBNA Service at 1-800-716-7466
10. Set parking brake and stop engine.
11. Proceed to; **III. Return Remote Throttle Setting To Normal Operation Positions (At the Rear Engine Control Panel)**

III. Return Remote Throttle Setting To Normal Operation Positions (At the Rear Engine Control Panel)

1. Set THROTTLE switch to “FRONT.”
2. Set IGNITION switch to “REAR.”
3. Start engine using the rear control (START to “START”).
4. Set THROTTLE switch to “REAR.”
5. Turn “RPM” knob to engine idle.
6. Set THROTTLE switch to “FRONT.”
7. Set IGNITION switch to “OFF” to shut the engine off.
8. Set IGNITION switch to “FRONT.”
9. Set “START switch to “FRONT.”
10. Fax Record of Completion for each vehicle to DBNA Waranty Department at (905) 403-8800.