A Subsidiary of FREIGHTLINER CORPORATION

Product Recall

To: ALL DEALERS

From: TRACY SAUERBREY - CUSTOMER SUPPORT DIVISION

Subject: RECALL 06V-136– Tyco Printed Circuit Board

Date: June 16, 2006

Enclosed are copies of the customer notification letter and the repair procedure for Recall 06V-136. This recall involves certain Thomas HDX, MVP-EF, and FS-65 buses manufactured from October 4, 2004 through February 14, 2006. The body Power Distribution Module was manufactured with copper circuits that are too thin for the electrical loads encountered. This could cause the board to overheat and generate smoke resulting in a fire.

This is a universal notification sent to all dealers. You may or may not have customers in your area affected by this recall. If owners in your area are subject to this recall, we have enclosed a printout listing those customers' names and addresses. If there is not a printout enclosed according to our records there are no units in your area involved. **If you have a printout and any of the units on it are still in your possession it is your responsibility to ensure the recall is performed before the unit is delivered to the customer.**

The repair will consist of replacing the thin copper circuits with new PDMs having the thicker copper circuits. The labor allowance for this repair is 1 hour per unit (SRT Code 90-58) **You will need to fill out the attached order form and FAX directly to Tyco at 1-717-986-5570 or phone Susan Ludlow with Tyco at 1-800-633-1381 in order to receive your Tyco boards and you will also need to purchase your circuit breakers and/or fuses directly from the Parts Distribution Center. The following states require Circuit Breakers in lieu of Fuses: Alabama, Florida, Maine, Maryland, Ohio, South Carolina, Texas, Virginia and West Virginia.**

Models	Part Number	Qty	Description
FS-65 & HDX	**TBB 52004845**	**4**	**Circuit Breaker, 20-Amp Man. Reset**
	OR		
	TBB 52000515	**4**	**Fuse, 20 AMP**
MVP-EF	**TBB 52006021**	**2**	**Circuit Breaker, 25-AMP Man. Reset**
	TBB 52004845	**2**	**Circuit Breaker, 20-AMP Man. Reset**

Thomas Built Buses has elected to notify all customers directly. Your customers will be contacting you to schedule an appointment for repairs. Reimbursement for parts and labor, (if requested) may be obtained by filing a warranty claim.

If you know of any customers who own or operate a Thomas bus in this recall, whose name and address is NOT listed or is INCORRECTLY listed on the enclosed printout, please promptly notify Thomas Built Buses of that additional information in writing. Thank you for your cooperation and assistance.

Tracy

Enclosures: Customer Letter Repair Procedure Printout (if applicable)

Repair Procedure

Instruction Sheet #85490074
Recall #06V-136

MODEL: FS-65, HDX, AND MVP-EF

SUBJECT: PRINTED CIRCUIT BOARD #1 REPLACEMENT

DATE: JUNE 13, 2006

Read the entire procedure before beginning.

1. Disconnect batteries.
2. Access the Printed Circuit Boards under driver's window. **Fig. 1**
3. Before replacing PCB, verify which one of the following configurations applies to the unit in question.
   Configuration **A**: The unit is currently equipped with all fuses.
   Configuration **B**: The unit is equipped with manual resettable circuit breakers.
   Configuration **C**: The unit is equipped with auto resettable circuit breakers.
   Configuration **D**: Only applies to the MVP-EF.
4. If **"A"** represents your unit, you will need to replace the PCB only, reusing the fuses from the old board.
   If **"B"** represents your unit, you will need to replace the PCB only, reusing the manual resettable circuit breakers.
   If **"C"** represents your unit, you will need to replace the PCB and circuit breakers located in Positions 22, 21, 19, and 18 with Fuses, part #TBB 52000515, with the exception of the nine states listed: **ALABAMA, FLORIDA, MAINE, MARYLAND, OHIO, SOUTH CAROLINA, TEXAS, VIRGINIA, AND WEST VIRGINIA**.

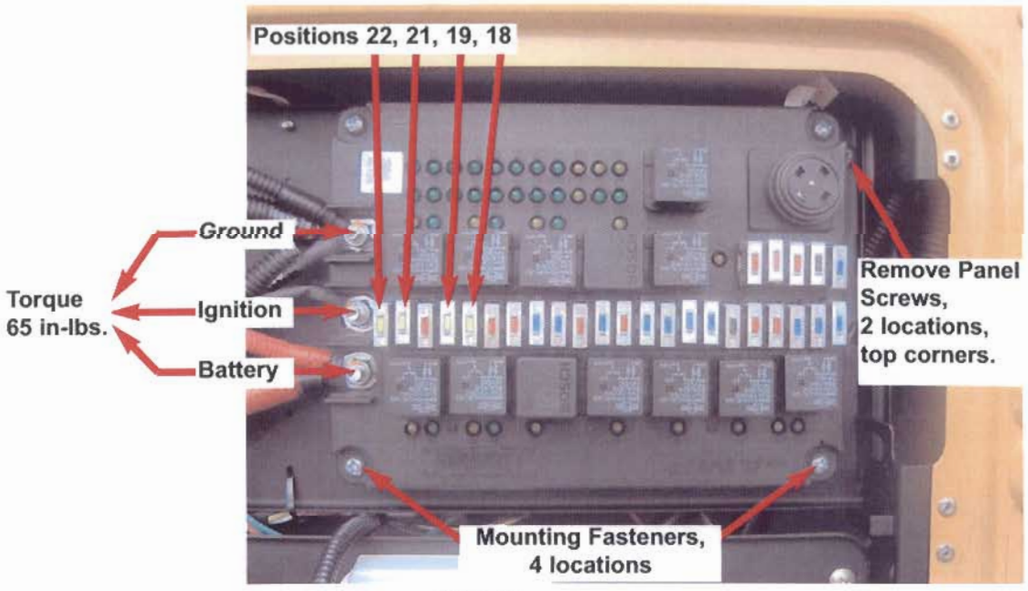

Figure 1

"D" applies only to MVP-EF units, you will need to replace the PCB and the auto resettable circuit breakers in Positions 22. 21, 19, & 18. Positions 22 & 18 will require 25-Amp, part #TBB 52006021 Positions 21 & 19 will require 20-Amp, part #TBB 52004845.

5. If applicable, remove any PC Board Covers. Some units may not have cover installed.
6. With new PCB in hand, remove all relays, fuses, and buzzers, one at a time. Reinstall into correct locations of the new board.
7. **Note: For MVP-EF only**. Install 25-Amp Manual Circuit Breakers, part #TBB 52006021 in Positions 22 and 18.
8. Note position of circuits. Remove circuits from power studs.
9. Remove the two panel screws, retain screws for reinstallation. Lower the panel to access the harness connections. **Fig. 2**

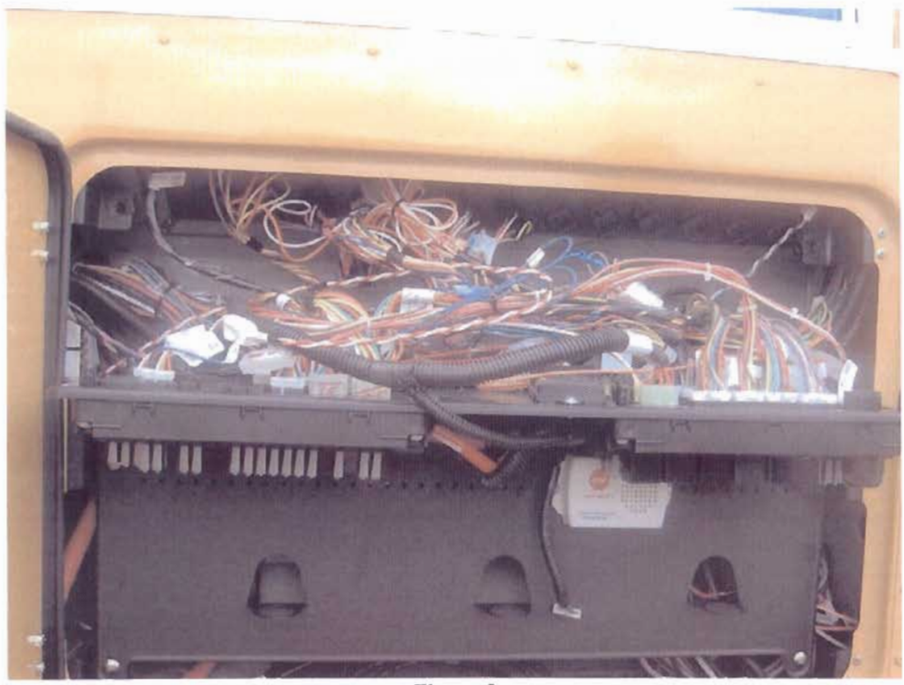

Figure 2

10. Unplug all connectors. **Make note of the connector number on the plugs. Verify that they are reinstalled in the correct locations on the new PC Board. See Fig. 3.**

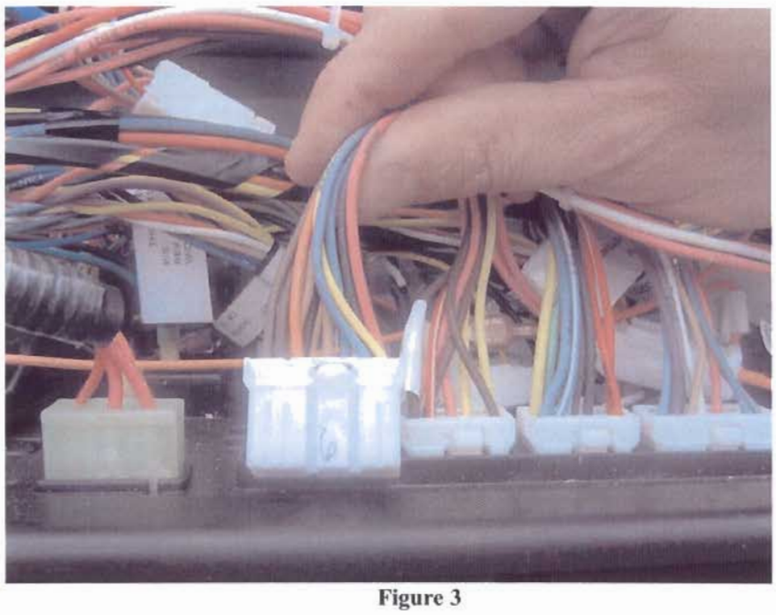

Figure 3

11. Remove the four (4) fasteners, retain for reinstallation. The PC Board should be removed at this time. **See Fig. 1.**
12. Install the new PC Board. Reconnect all harnesses. Note that the shunts are located in positions 1 and 2. **Note: One direction is battery supplied; the other is ignition supplied. Fig. 4.**

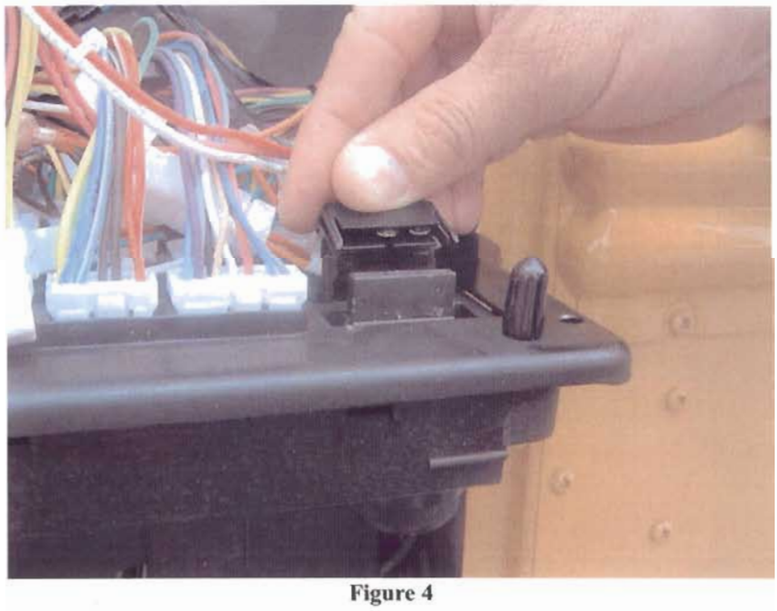

Figure 4

13. Place panel back into position. Reconnect all main power ground cables. Torque 65 in-lbs.
14. If applicable, reinstall any PC Board Covers.
15. Reconnect batteries.
16. Check operation of unit.

MATERIALS REQUIRED:
TBB 52004778 TYCO BOARD (TYCO SUPPLIED)
TBB 85490074 REPAIR PROCEDURE FOR RECALL 06V-136

NOTE: THE FOLLOWING STATES REQUIRE CIRCUIT BREAKERS IN LIEU OF FUSES: ALABAMA, FLORIDA, MAINE, MARYLAND, OHIO, SOUTH CAROLINA, TEXAS, VIRGINIA, AND WEST VIRGINIA

MODELS	PART NUMBER	QTY.	DESCRIPTION
FS-65 & HDX	TBB 52004845	4	CIRCUIT BREAKER, 20-AMP MANUAL RESET
	OR		
	TBB 52000515	4	FUSE, 20-AMP
MVP-EF	TBB 52006021	2	CIRCUIT BREAKER, 25-AMP MANUAL RESET
	TBB 52004845	2	CIRCUIT BREAKER, 20-AMP MANUAL RESET