

February 27, 2004

Dear Blue Bird Owner:

You will find enclosed Service Bulletin S04HJ regarding brake system wiring modifications on your Blue Bird "Vision" (BBCV) model buses. This bulletin addresses the following three conditions that may exist on your bus (es). Please review these conditions carefully and determine applicability to your bus (es) before ordering parts or beginning work.

Note: These conditions do not affect the normal operation of your service brakes.

1. Hydraulic Brake Buses: Extended cranking time on buses with hydraulic brakes may cause the brake system warning light to activate when there is no failure in the system. The brake ignition feed wire and ignition fuse at the ignition power block must be relocated to the ECM ignition fuse block. A revised wiring decal reflecting wiring /fuse relocation will be provided. A diode is also being added to the brake module wiring harness.
2. Air Brake Buses: ABS brake modulation may cause the ABS system 5-amp fuse to blow. The original 5-amp fuse must be replaced with a 30-amp fuse. A revised decal reflecting change in required fuse size will be provided.
3. Option 40051 Brake Interlock System: Buses equipped with optional brake interlock system may experience a problem with the dash lights remaining on. This condition is caused by electrical backfeed in the dash. The brake interlock feed wire and fuse must be relocated to the ignition power fuse block to correct this condition.

You or any qualified repair facility convenient to you may perform this modification. You may contact your appropriate Blue Bird distributor for assistance.

You will need to contact your Blue Bird distributor or your usual Blue Bird service parts source to order parts required to update your brake system wiring. Modification parts will be available in limited quantities beginning March 25, 2004. Modification parts will be provided to you "No Charge".

Time required to perform Service Bulletin S04HJ is 0.3 hours (18 minutes) per bus for buses with air brakes and 0.6 hours (36 minutes) for buses with hydraulic brakes. Request to obtain reimbursement for labor should be submitted to your Blue Bird distributor.

Service Bulletin S04HJ expires one year from date of issue.

If you no longer own the bus (es) identified on the enclosed cover sheet, please indicate new owner in the "sold to" section of the cover sheet and return to us at the address below:

BLUE BIRD BODY COMPANY
P.O. BOX 937
FT. VALLEY GA 31030
ATTN: TECHNICAL PUBLICATIONS

Should you have any questions concerning this bulletin, please contact your Blue Bird distributor.

Sincerely,

Bill Coleman
Technical Publications



Brake System Wiring

MODELS AFFECTED: All Blue Bird Visions

UPDATE

ISSUE

On units with air brakes, ABS 5 amp fuse may fail during brake modulation. On units with hydraulic brakes, a false service brake light may turn on during extended cranking. On units with brake interlock, the dash indicator may remain powered up.

CORRECTIVE ACTION

On BBCV with air brakes, replace the 5 amp fuse with a 30 amp fuse. On units with hydraulic brakes, relocate the feed wire for the hydraulic brake module. On units with brake interlock, relocate the power feed wire.

PROCEDURE

1 Park the bus on a level surface. Remove the ignition key, and chock the rear wheels. Disconnect the batteries.

2 If the bus is equipped with a right side heater blower mounted on the floor forward of the entrance door stepwell, the blower housing must be removed. (If the bus being serviced does not have a right front heater blower, go to procedure step 3.)

1. Pry out the plastic access plugs on top of the blower housing and remove the three mounting screws.



2. Slide the housing assembly rearward toward the stepwell. Unplug the blower motor harness at the left side of the assembly and remove the assembly.



3 Remove the two screws on each side of the Power Distribution Unit cover and remove the cover.



4 The provided wiring decal is to replace the one installed on the inside of the PDU cover. The new decal reflects the wiring alteration covered in this Update. The specific alteration to be performed depends upon whether the bus has air or hydraulic brakes:

BBCV With Air Brakes. On units equipped with air brakes, this Update involves replacement of a fuse and installation of the new wiring decal which reflects the change. Go to step 5, page 2.

BBCV With Hydraulic Brakes. On units equipped with hydraulic brakes, this Update involves relocation of the brake ignition feed wire and fuse, and installation of the new wiring decal which reflects the change. Go to step 7, page 3.

S04HJ

S E R V I C E U P D A T E

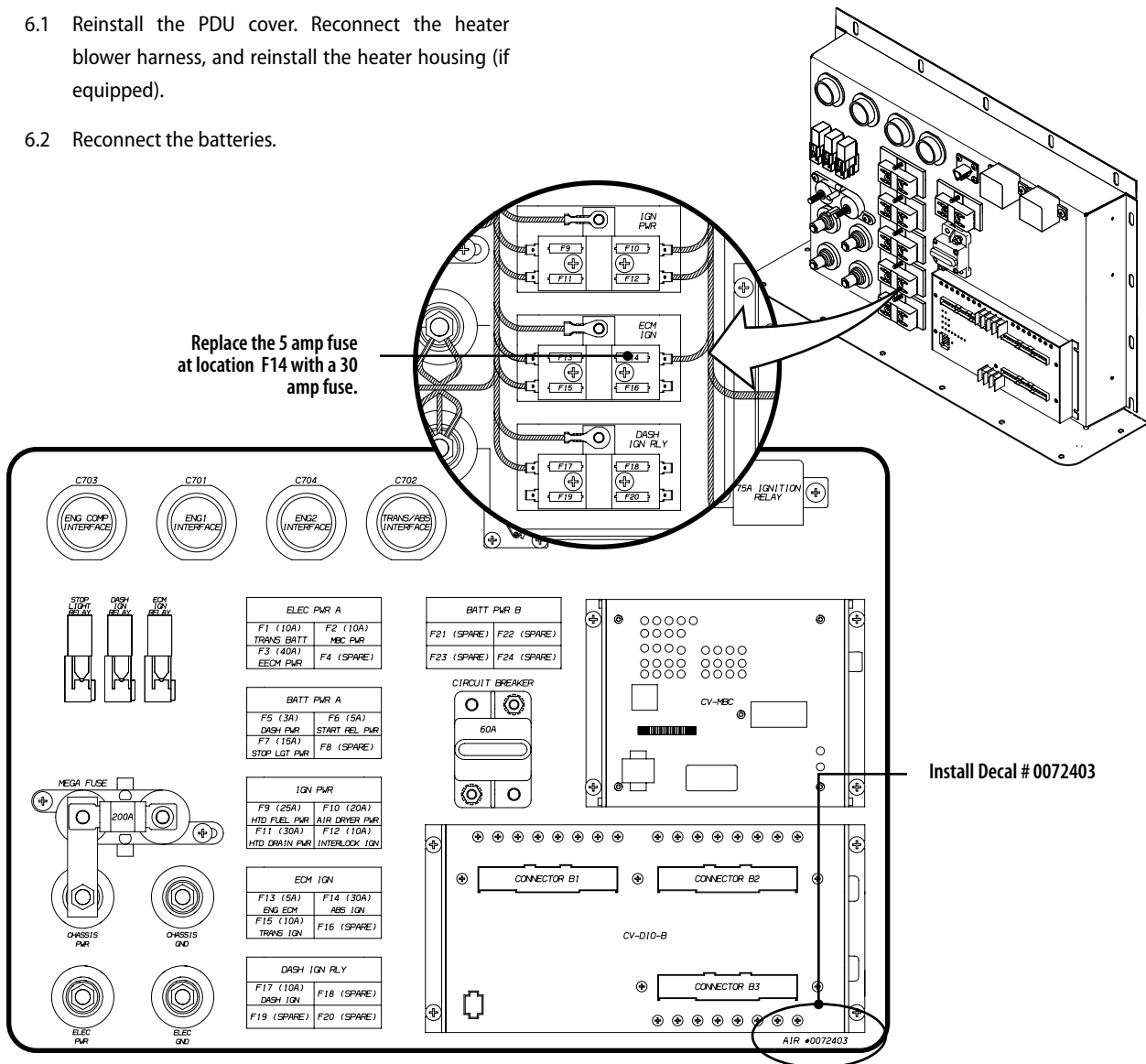
5 BBCV (Vision) Buses Equipped With Air Brakes Only.

- 5.1 Locate the ECM IGN fuse block. In location F14 ABS IGN, replace the 5 amp fuse with a 30 amp fuse.
- 5.2 Install the new decal labeled Air #0072403 on top of the existing decal on the inside of the PDU cover.

6 An additional change is required on buses with with the optional Brake Interlock feature. If the bus is equipped with the Brake Interlock, go to step 10, on page 5.

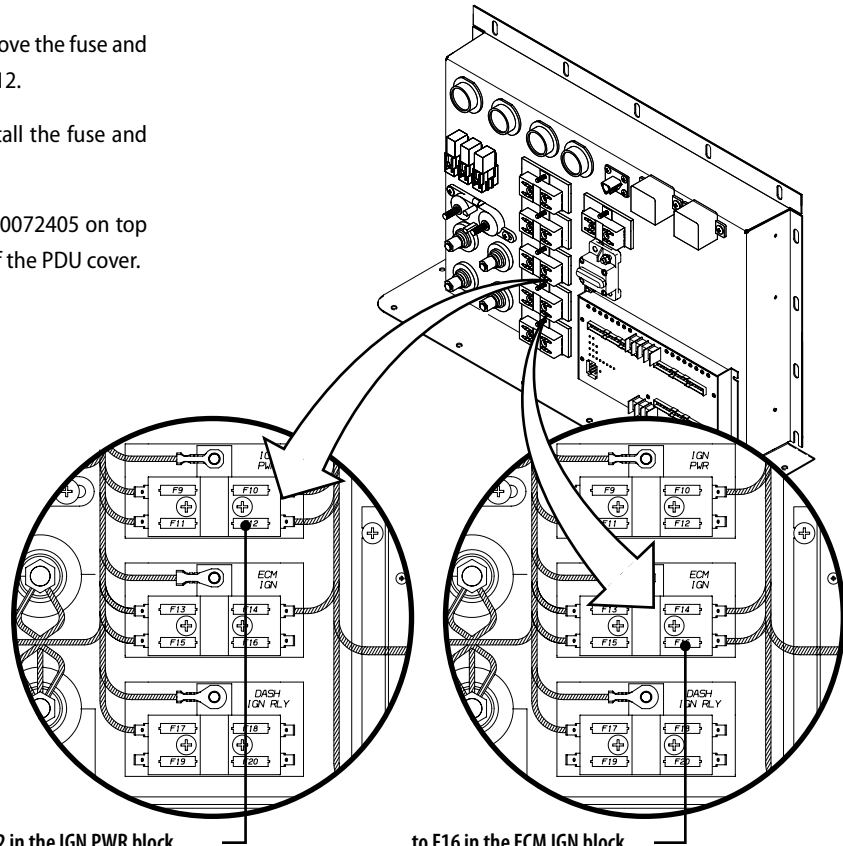
If the bus is not equipped with Brake Interlock the update is complete and the bus may be returned to service.

- 6.1 Reinstall the PDU cover. Reconnect the heater blower harness, and reinstall the heater housing (if equipped).
- 6.2 Reconnect the batteries.



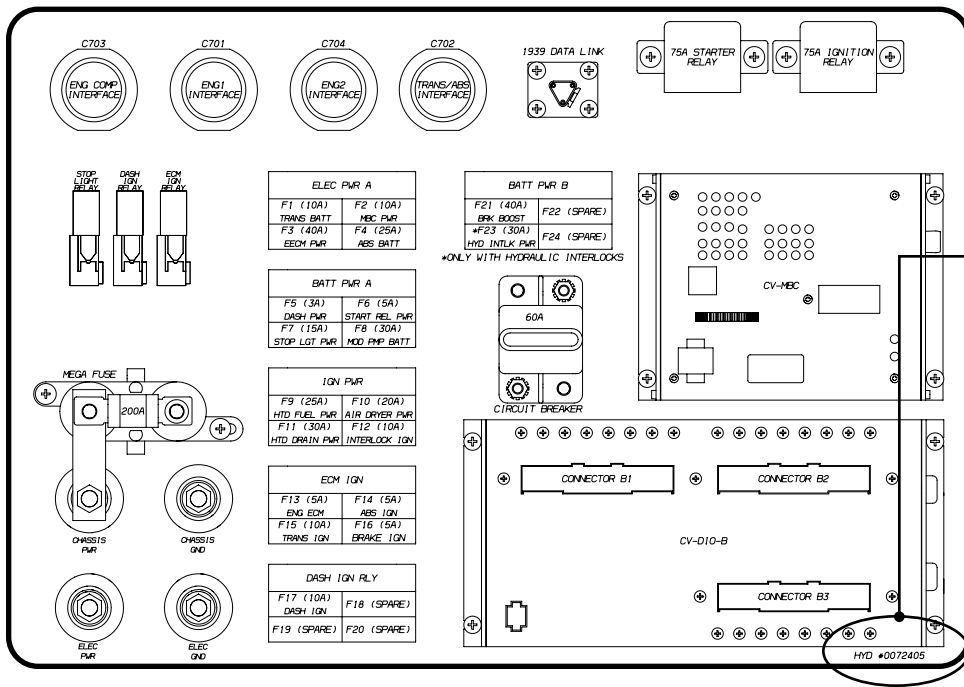
7 BBCV (Vision) Buses Equipped With Hydraulic Brakes Only.

- 7.1 Locate the IGN PWR fuse block. Remove the fuse and disconnect the wire from location F12.
- 7.2 Locate the ECM IGN fuse block. Install the fuse and connect the wire at location F16.
- 7.3 Install the new decal labeled HYD #0072405 on top of the existing decal on the inside of the PDU cover.



Move the fuse and wire from F12 in the IGN PWR block...

...to F16 in the ECM IGN block.



Install Decal # 0072405.

8 BBCV (Vision) With Hydraulic Brakes Only. Buses with hydraulic brakes require splicing a diode into the brake monitor module harness:

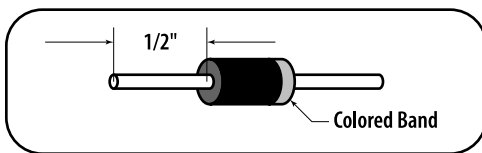
- 8.1 Open the engine compartment hood and locate the DCM monitor module connector on the top of the driver's toe box housing.



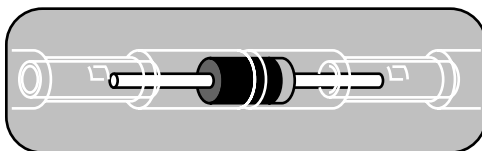
Hydraulic brake monitor module connector

- 8.2 Locate the orange 14 AWG wire. Unwrap electrical tape and peel back enough of the split wire loom to expose approximately 4 inches of the orange wire.

- 8.3 Trim each diode lead to 1/2" in length. Note which end of the diode is marked by a colored band.

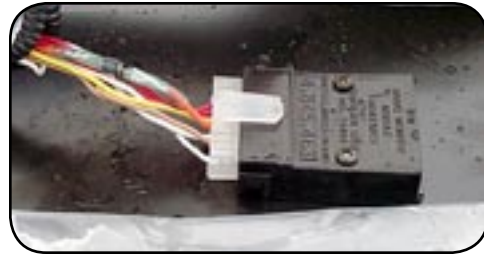


- 8.4 Crimp a butt splice connector to each end of the diode. The shrink tube insulators should cover approximately half the diode's length, as shown.



- 8.5 Cut the orange wire approximately 1" from the connector. Trim 1/4" of insulation from both cut ends.

- 8.6 Splice the diode assembly between the cut ends of the orange wire. Be sure to orient the diode with its colored band toward the harness connector block.



Diode spliced in place

- 8.7 Apply heat to the butt connectors to shrink the insulators around the wires and diode. Reinstall the split wire loom and tape the end of the loom with electrical tape.

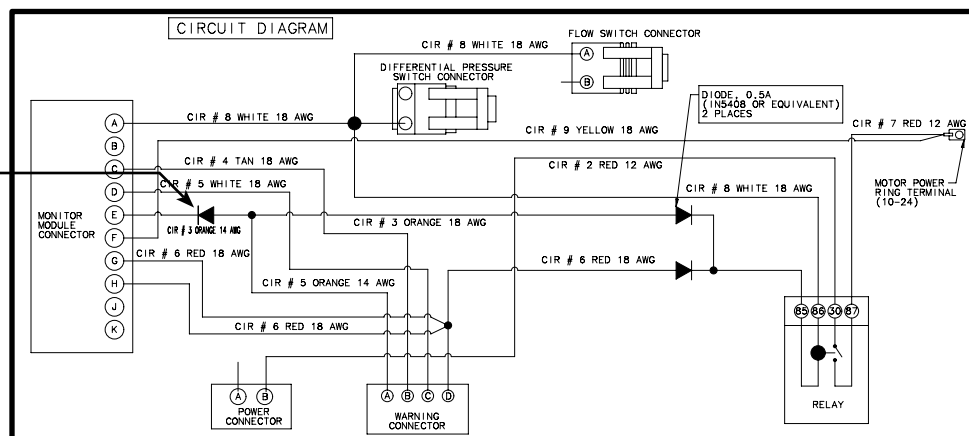
9 An additional change is required on buses with the optional Brake Interlock feature. If the bus is equipped with the Brake Interlock, go to step 10, on page 5.

If the bus is not equipped with Brake Interlock the update is complete and the bus may be returned to service.

- 9.1 Reinstall the PDU cover. Reconnect the heater blower harness, and reinstall the heater housing (if equipped).

- 9.2 Reconnect the batteries.

Install Diode 1320977.



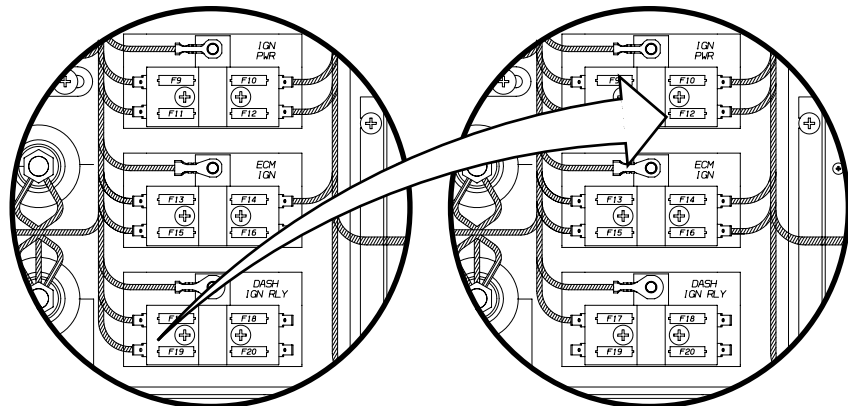
10 BBCV (Vision) Buses Equipped With Optional Brake

Interlock feature. This step applies to body numbers:

<i>B102372</i>	<i>B103086</i>	L061791
<i>B102430</i>	L059651	L061792
<i>B102462</i>	L059652	L061798
<i>B102710</i>	L059962	L062174
<i>B102965</i>	L061510	

If your bus is one of the above body numbers, proceed as follows:

- 10.1 Locate the DASH IGN RLY fuse block. Remove the fuse and disconnect the wire from location F19.
- 10.2 Locate the IGN PWR fuse block. Install the fuse and connect the wire at location F12.
- 10.3 Install the new decal labeled HYD #0072405 on top of the existing decal on the inside of the PDU cover.
- 10.4 Reinstall the PDU cover. Reconnect the heater blower harness, and reinstall the heater housing (if equipped).
- 10.5 Reconnect the batteries.



Move the fuse and wire at location F19 in the DASH IGN RLY block...

...to location F12 in the IGN PWR block.

Parts List For Units With Air Brakes

PART NUMBER	QUANTITY	DESCRIPTION
0072403	1	Decal, Frt, PDU, Air Brakes BBCV
1696756	1	Fuse, Auto, 20 amp.

Parts List For Units With Hydraulic Brakes

0072405	1	Decal, Frt, PDU, Hyd. Brakes, BBCV
1320977	1	Diode, Rectifier, 1N5408, 3 amp.
0036507	2	Terminal, Butt Connector, 14-16 Ga., Insulated, Heat Shrink