



**BLUE BIRD**

December 17, 2014

**To:** Select Blue Bird Customers

**Subject:** Service Bulletin S14XT Heater Motor Circuit Update

**Models Affected:** 2000-2011 Model Year All American Model Buses  
2004-2010 Model Year Vision Model Buses  
2004-2008 Model Year Conventional Model Buses

**Bulletin Duration:** One (1) Year from Date of Issue

#### **Overview**

Buses equipped with body heater motors without thermal protection should have a jumper fuse harness installed to protect the heater motor circuit should the motor's internal windings overheat and fail. Service Bulletin S14XT provides instructions for installing a jumper harness which provides inline fuses for the body heater motor circuit. Separate instructions are provided for the All American front heater defroster, Vision stepwell heater, underseat heaters and rear wall heaters.

#### **Affected Units**

The buses in your fleet that are affected by this Service Bulletin S14XT are identified by Blue Bird body serial number(s) on the enclosed cover sheet.

#### **Time Allowance**

Time allowed to install the jumper harness is determined by the number of heaters in each bus.

Labor times for All American model heater combinations are listed below:

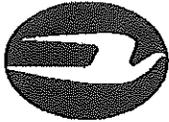
1. Labor time to install jumper harness for front main heater/defroster only is 0.3hrs per bus.
2. Labor time to install jumper harness for main front heater/defroster and 1-2 body heaters (any combination of underseat & rear wall heaters) is 0.4 hours per bus
3. Labor time to install jumper harness for main front heater/defroster and 3-4 body heaters (any combination of underseat & rear wall heaters) is 0.6 hours per bus.

Labor times for Vision model buses are listed below:

1. Labor time to install jumper harness for 1-2 body heaters (any combination of underseat, rear wall heaters and stepwell heaters) is 0.3 hours per bus.
2. Labor time to install jumper harness for 3-4 body heaters (any combination of underseat, rear wall heaters and stepwell heaters) is 0.5 hours per bus.

**BLUE BIRD BODY COMPANY**

P.O. Box 937 – 402 Blue Bird Blvd – Fort Valley, Georgia – (478) 825-2021



BLUE BIRD

### **Repair Parts**

The parts required to perform Service Bulletin S14XT must be ordered through your Blue Bird Dealer. Parts are available to be ordered.

### **Labor Reimbursement**

If you perform this service bulletin yourself or have an outside repair facility perform this bulletin you may submit claims for labor and parts reimbursement to your Blue Bird dealer.

### **Bulletin Duration**

This Service Bulletin S14XT ends one (1) year from the date of issue.

### **Repair Facility**

We encourage you to contact your Blue Bird dealer to arrange to have this Service Bulletin performed. However, you may have the option to perform this Service Bulletin yourself or have a qualified repair facility convenient to you perform this work. A qualified technician must perform work required under this bulletin.

### **Questions**

Questions regarding this bulletin should be directed to your Blue Bird Dealer.

Sincerely,

Lisa Hancock  
Engineering Services  
(478) 822-2242

**BLUE BIRD BODY COMPANY**

P.O. Box 937 – 402 Blue Bird Blvd – Fort Valley, Georgia – (478) 825-2021

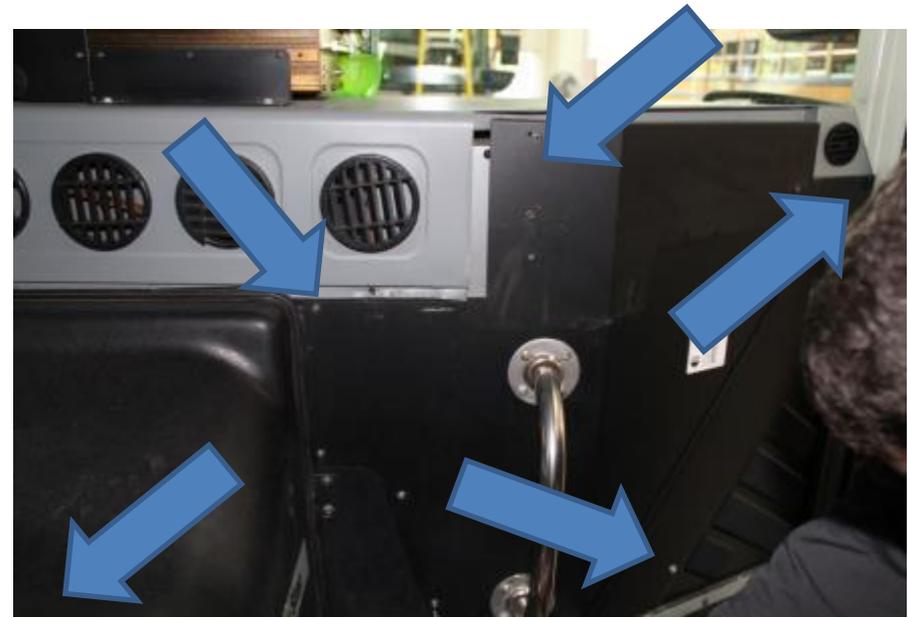


***Blue Bird Service Bulletin S14XT  
All American Model  
Front Heater/Defroster Jumper  
Installation Instructions***

- Remove trim around the heater unit



- Remove screws from heater cover panel & remove panel



- Remove screws from heater panel

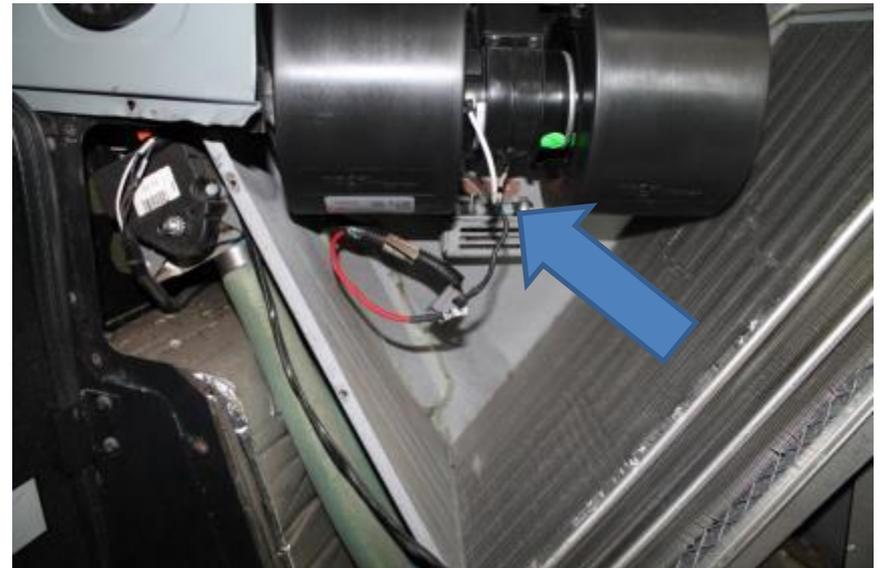
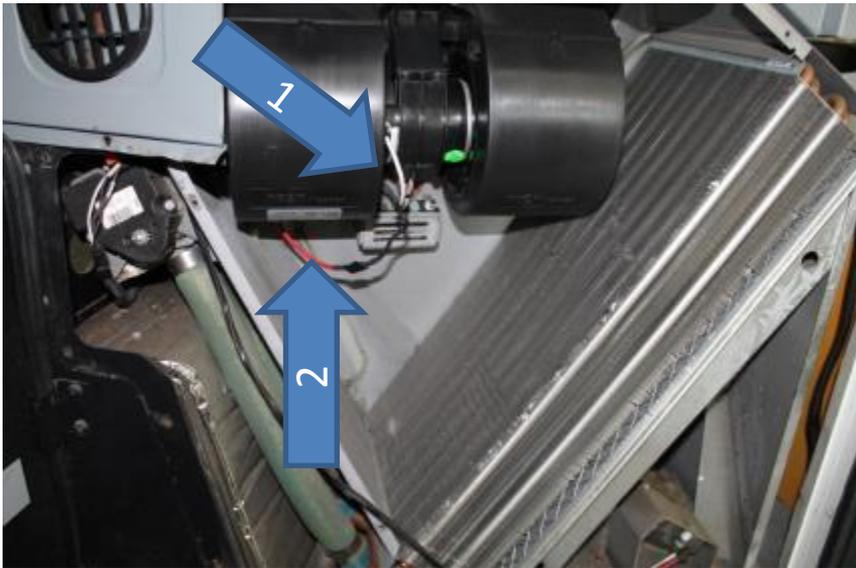


- Remove heater panel



1. Gain access to blower motor connector
2. Disconnect Red wire

- Remove connector from resistor block



- Cut Red Wire from blower motor



- Tape wire back into the harness with electrical tape



- Connect jumper harness to resistor block

Use Bergstrom part #1000785177 for the following part numbers.

Bergstrom P/N	Description	Bluebird P/N
1000102424	ASSEMBLY, HEATER RE	00015281
1000102444	ASSEMBLY, HEATER FE	00015279
1000102764	ASSEMBLY, HEATER RHD RE	00015280
1000102846	ASSEMBLY, HEATER RHD FE	00086985
782229	COMBO ASSY RE A3	00085146
782232	COMBO, ASSY A3 FE	3399005

Use Bergstrom part #1000686925 for the following part numbers.

Bergstrom P/N	Description	Bluebird P/N
B936232	HEATER PKG, BLUEBIRD TC 1997	1913763
B936237	HTR PKG, B-BIRD RH DR MI	1913771
B936253	HTR PKG, BLUEBIRD TC A3FE	0003017
B936257	HEATER PKG, BLUEBIRD TC 1999	00015281
B936258	HTR PKG, BLUEBIRD A3 TC 1999	00015279
B936259	HTR PKG, B-BIRD RH DR	00015280
782233	HTR ASSY, A3 FE RHD	00086985

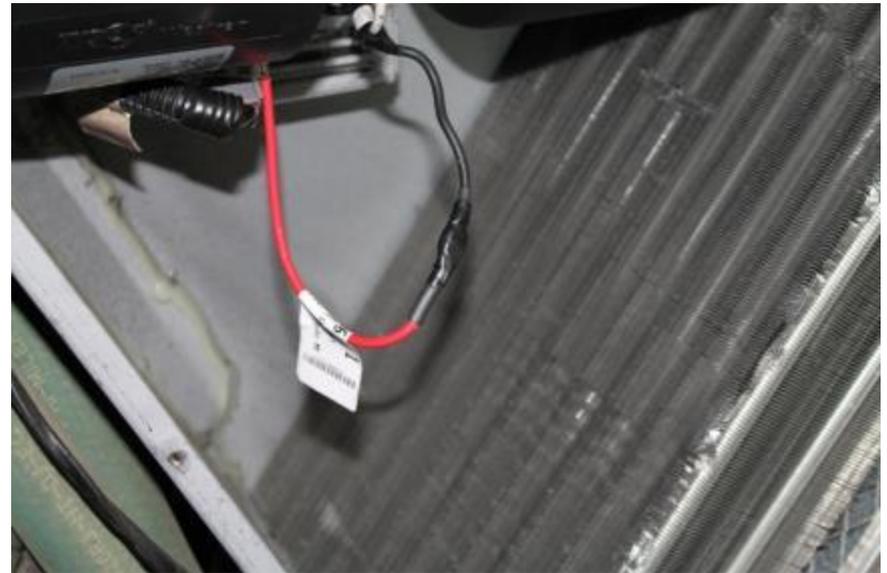
- Connect jumper harness wiring harness



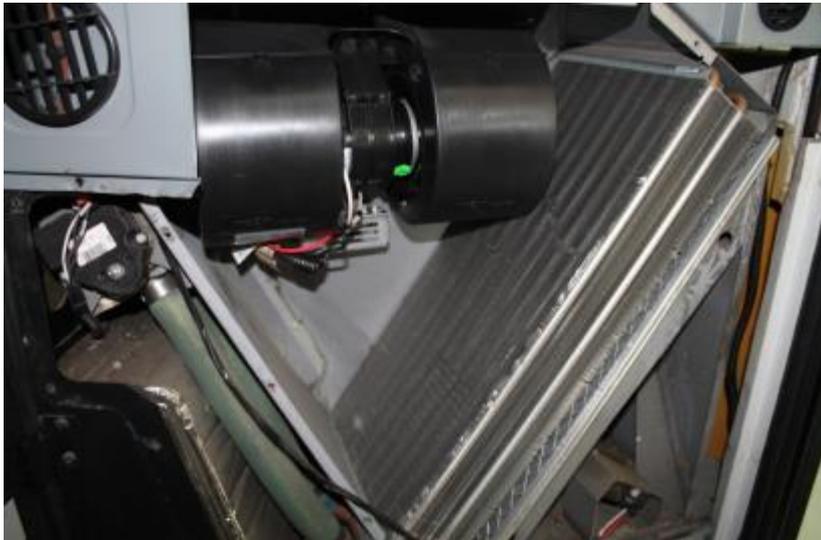
- Connect red wire from jumper harness to black wire



- Tape the connection using electrical tape



- Secure wires behind motor assembly



- Run heater for 3 minutes on each speed
- If any fuses open, replace the blower motor
- If motor performs on each speed, reassemble the heater parts

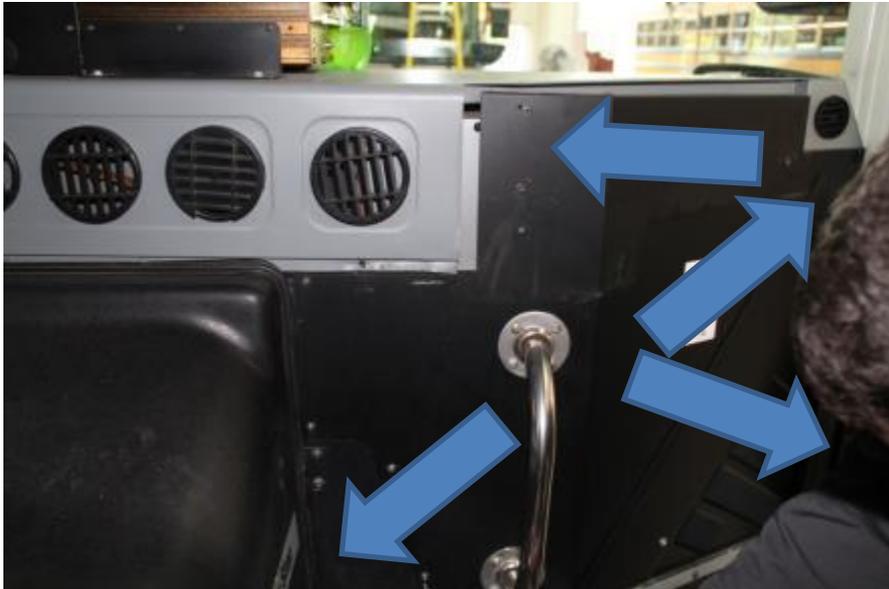
- Install heater panel



- Install screws for heater panel



- Install heater cover panel & install panel screws



- Install trim around the heater unit





# Rear Wall Heater Motor Fused Circuit Protection

# BULLETIN

**Models Affected: The following models equipped with rear wall heaters**  
**2004-2009 Model Year All American and Vision Model Buses**  
**2004-2008 Model Year Conventional Model Buses**

## ISSUE

Body heater motors that are not equipped with thermal protection should have a jumper fuse harness installed to protect the circuit should the motor's internal windings overheat and fail.

## CORRECTIVE ACTION

Add jumper harness (Part Number: 1000662031) with individual circuit fuse protection for both low and high speed circuits of each rear wall heater blower motor.

## PROCEDURE

**WARNING:** Always follow all Federal, State, Local and Shop safety standards and use proper safety equipment, and thoroughly read and understand all instructions before performing these procedures.

1. Before performing service bulletin, verify all rear wall heater blower motor speeds operate correctly and repair if necessary.
2. Park the bus on a level surface, apply parking brakes, turn off engine and remove ignition key. Chock wheels
3. Identify quantity of rear wall heater motors on bus affected by service bulletin.
4. One (1) rear wall heater jumper harness (Part Number: 1000662031) is required for each rear wall heater motor.



Jumper Harness

S  
I  
4  
X  
T  
  
S  
E  
R  
V  
I  
C  
E  
B  
U  
L  
L  
E  
T  
I  
N



# Rear Wall Heater Motor Fused Circuit Protection

# BULLETIN

5. Remove ten (10) Phillips screws and end cover from rear wall heater. Slide blower motor assemblies out to access the four pin connector on each motor.  
(See photo 1 & 2)



6. Unplug one rear wall heater motor connector at a time and install jumper harness in series.  
(See photo 3) Repeat this step for each rear wall heater motor harness.



7. Slide blower motor assemblies back in and install end cover with ten (10) Phillips screws.
8. After jumper harness installation, verify both low and high rear wall heater blower speeds operate.
9. If either blower speed fails to operate verify jumper harness fuse is installed, not blown (open). Contact your Blue Bird dealer if you require any assistance.

S E R V I C E B U L L E T I N - S I 4 X T



Rear Wall Heater Motor  
Fused Circuit Protection

# BULLETIN

**Parts Required:**

<b>S14XT Rear Wall Heater Jumper Harness - Bergstom Part Numbers</b>			
Item	Part #	Description	Qty
1	1000662031	Harness, jumper, rear wall heater	1

S14XT  
- S E R V I C E B U L L E T I N -



# Under Seat Heater Motor Fused Circuit Protection

# BULLETIN

**Models Affected: The following models equipped with optional under seat heaters**  
**2004-2009 Model Year All American Model Buses**  
**2004-2010 Model Year Vision Model Buses**  
**2004-2008 Model Year Conventional Model Buses**

## ISSUE

Body heater motors that are not equipped with thermal protection should have a jumper fuse harness installed to protect the circuit should the motor's internal windings overheat and fail.

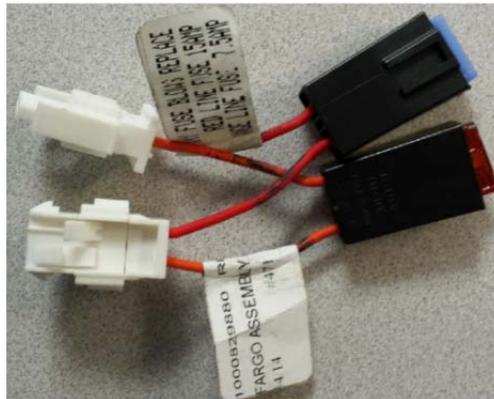
## CORRECTIVE ACTION

Add individual circuit fuse protection (Part Number: 1000829880) for both low and high speed circuits of each under seat heater blower motor.

## PROCEDURE

**WARNING:** Always follow all Federal, State, Local and Shop safety standards and use proper safety equipment, and thoroughly read and understand all instructions before performing these procedures.

1. Before performing service bulletin, verify all under seat heater blower motor speeds operate correctly and repair if necessary.
2. Park the bus on a level surface, apply parking brakes, turn off engine and remove ignition key. Chock wheels
3. Identify quantity of under seat heater motors on bus affected by service bulletin.
4. One (1) under seat heater jumper harness (Part Number: 1000829880) is required for each under seat heater motor.



Jumper Harness

S I 4 X T  
- S E R V I C E B U L L E T I N -



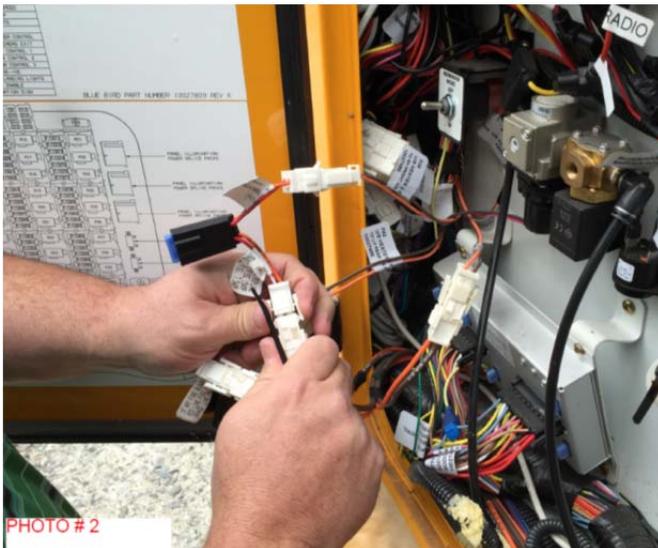
# Under Seat Heater Motor Fused Circuit Protection

# BULLETIN

5. Open the body electrical panel access door located directly below the driver side window. Each under seat motor has a two pin harness connector located in the lower left corner. (See photo #1)



6. Unplug one under seat heater motor harness connector at a time and install jumper harness in series. (See photo #2) Repeat this step for each under seat heater motor harness.



7. After jumper harness installation verify both low and high under seat heater blower speeds operate.
8. If either blower speed fails to operate verify jumper harness fuse is installed, not blown (open). Contact your Blue Bird dealer if you require any assistance.

S E R V I C E B U L L E T I N - S I 4 X T



Under Seat Heater Motor  
Fused Circuit Protection

# BULLETIN

**Parts Required:**

<b>S14XT Underseat Heater Jumper Harness - Bergstom Part Numbers</b>			
Item	Part #	Description	Qty
1	1000829880	Harness, jumper, underseat heater	1

**S14XT**

S E R V I C E B U L L E T I N

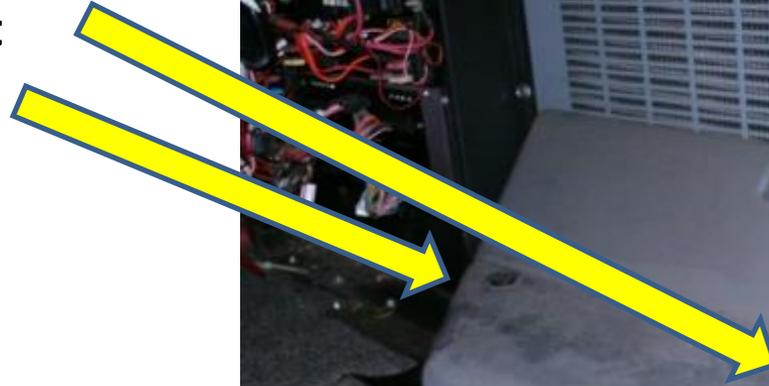


**Bergstrom**  
Climate Control Systems

***Blue Bird Service Bulletin S14XT  
Vision Model  
Stepwell Heater Jumper  
Installation Instructions***

# Removal of the unit

Remove the plastic plugs on the top of the unit



# Removal of the unit

Remove the air deflectors  
on the side of the unit



# Removal of the unit

Remove the screws that  
are holding the duct in  
position

The screw locations are  
inside of the air duct



# Removal of the unit & install jumper harness

Slide unit back from front of vehicle

Install jumper harness

Bergstrom part #1000662031

orange wire – 20A fuse

red wire – 7.5A fuse

yellow wire – 5A fuse



# Test the Unit

Run the blower on **HIGH**  
for 2 minutes

Run the blower on **LOW**  
for 1 minute

If the blower keeps  
running in both speed  
ranges, reinstall unit

If either fuse blows,  
replace the blower motor  
assembly

