



Electronic Component Programming

MODELS AFFECTED: Blue Bird “Vision” Buses Equipped With Stoneridge Instrument Panels and I/O Controls Multiplex Control Boxes

ISSUE

Servicing Stoneridge instrument panels and I/O Controls multiplex boxes.

APPLICATIONS

Stoneridge instrument panels on 2008 model year and newer Vision buses and I/O Controls multiplex control boxes on “Vision” Buses.

TOOLS REQUIRED

To properly service the Stoneridge instrument panel and the I/O Controls multiplex box, special software must be downloaded to a laptop and special computer cables are required to connect the laptop to the Stoneridge instrument panel or the I/O Controls multiplex box.

Parts Sales has set up the following hardware kits which includes the necessary cables to connect to the Stoneridge instrument panel and the cables and software for I/O Controls multiplex control box.

Stoneridge Instrument Panels:

Part Number	Description
0114694	Kit, Service, Diagnostic Tool, Stoneridge

You will need to contact your Blue Bird Customer Service representative for Stoneridge instrument panel software installation instructions.

I/O Controls Multiplex Control Boxes:

0123718	Kit, Program, Multiplex Module
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Installation instructions for installing the I/O Controls software is provided beginning on page 2.

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Software Installation Procedure for Blue Bird Part Number 0123718

Locate the disc marked “I/O Controls, Corp Utility Software, Blue Bird Download”. Follow the directions that come with the disc very carefully.

After you have installed the I/O software, install the software that comes with the ATEN USB driver. Again follow the directions carefully when loading this software.

When you have loaded the ATEN software you will need to know which USB com port is recognizing the cable. You must use the same USB Port for this cable every time it is used. To find out which com port, follow these instructions:

- Click on “Start”
- Go to and click on “Control Panel”
- When next window appears double click on “Systems”
- The next window is “Systems Properties”
- Click on the heading “Hardware”
- Then click on “Device Manager”
- The next window that shows is named Device Manager.
- Scroll down to the device listed “Ports” (com & LPT)
- Once you have located this device, click on the “+” symbol to open the device to see which com port is recognizing the ATEN cable.

Note: You may have to disconnect and connect the cable to verify the port. If the com port is not recognized between ports 1-8 you may need some assistance from a computer technician to make sure it will be recognized by one of these ports. Once the port has been verified reboot your computer.

You are now ready to download the software for I/O Controls multiplex control box Blue Bird part number 0115307.

Begin by locating the Body Number of the “Vision” bus needing the I/O Control multiplex box programmed. Then go to the Blue Bird BBOND website and click on BBOND.

When the next window opens, type in the “Body Number” and click on “Submit Query”. At the top of the next window is a heading block for different views. Select “iocntrl”.

Body Number: F000002	Chassis Number: F000001
View the production order	View the service parts list
View the audit data	No axle parts list available.
No change order data available.	View the veps list
View the iocntrl data	View the abs results



When the “iocntrl” window opens, you will see the following:

IOControl Files for unit: F000001

F000001.PDF	Does not exist	
F000001.REF	Does not exist	
F000001.LOG	Does not exist	
F000001.LST	Does not exist	
F000001.OBJ	Exists, but is not viewable. Download	Created: Mon Apr 30 07:01:32 2007
F000001.SRC	Does not exist	
F000001.VER	View	Created: Mon Apr 30 08:27:03 2007

Enter a single Unit Number:

[List](#) all units.

Note: The I/O Controls File unit number is the Chassis Number. Make a note of it at this time.

Next, select the “Download” link next to the “.OBJ” heading in the left column. A windows “File Download” prompt will open. Select “Save”. This will open a “Save As” prompt. Select “Save As”. The program will be saved in your “Program” files.

Once the file has finished loading to your designated location in your computer a “Download Complete” prompt will open. Select “Open Folder”. You should see an .obj file that contains the software that can now be downloaded to the multiplex unit. Click on the .obj file to highlight (selects) for later use and minimize the screen.

Return to the “Home Page” and find the new Icon listed as “I/O Blue Bird Download”. Double click to open the window. When the window opens, select “Option”. Next go to “Select Port” and click on heading.

This is where you select the com port for the USB cable this has to be done each time you go to this program to program a multiplex unit. After this has been selected, connect your cables and power to the multiplex box and the computer.



Once the cables are installed, you must type in the chassis serial number in the program file or .OBJ file box. Select enter and the software should be downloading to the multiplex box. The downloading progress will be indicated on the window displayed. If an error message appears you need to check the cables connections or the com port setting.

Note: When the “power” and “program” cables are connected the multiplex box LED’s should all be illuminated. If the light in position S in Zone 1 is on, this indicates the box is already programmed.

Each time you go to BBOND and save the program download it will remain in your “Program file”. We suggest that after you download the file to your multiplex box that it be deleted from this file.

If you are not sure the right software is installed for the multiplex control box you are programming, use the following instructions to clear and re-flash the multiplex box.

Connect your power and programming cables to the multiplex box and to the computer. Select the Icon “I/O Blue Bird Download”.

Go to “Options” and select “port” and click on the com port that your USB cable is recognize on.

Go to the box listed “Program” file or “.OBJ” file and type in “Blank32”

This is indicated in the Download file with the software you extract from Blue Bird BBOND.

Select “Enter” and the process of clearing the multiplex box should be indicated on the window.

Once the window indicates the box has been cleared, unplug the cables to the box and reattach them. After they are reattached, all the lights should illuminate to show that the box has indeed been cleared.

Unless there are other problems with this multiplex control box, it should now be ready to be programmed by the steps outlined above.

Caution: In the earlier text the file “Blank32” was mentioned. This file should never be deleted. If it is, you will have to remove the I/O software and reinstall it to have a “Blank32” file.

If there are any questions regarding this procedure for programming an I/O Controls multiplex control box please contact your Blue Bird Service Representative.