

# Micro Bird Inc.

## RECALL CAMPAIGN

**TITLE:** Replacement of an electrical harness for heated and remote mirrors, option MRSHR-Z

**TO:** Dealer/Owner

**PRODUCT:** Ford T-Series MY 2015 (school buses)

**FROM:** Regulations and Standards

### PLANNING

#### Description

This document describes how to replace the electrical harness of heated and remote mirrors on the passenger entrance door side on Ford T-Series MY 2015 with option MRSHR-Z.

#### Compliance

Replace the connection of the electrical harness as described below and return the reply sheet(s) for reimbursement. ***Due to the serious injuries this situation may cause, we ask for the repair to be done in fifteen (15) days after you have been notified.***

**You must read all the instructions before you begin the repairs.**

#### Manpower

The maximum time allowed as reimbursement for this repair is forty-five (45) minutes.

#### Material Availability

Following parts are required to replace the electrical harness of heated and remote mirrors:

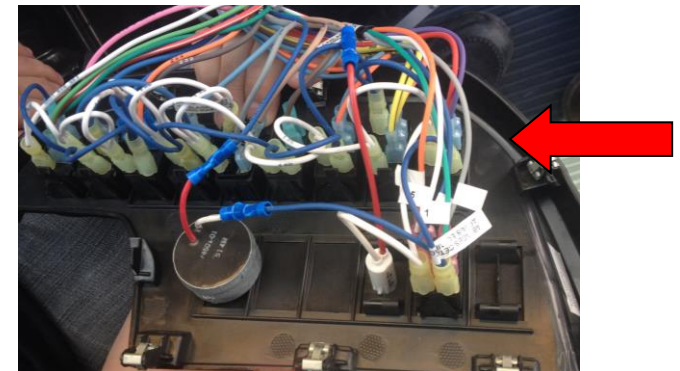
Product #	Description	Qty	Availability
769875	2 FEET LOOM	1	Micro Bird
27D0748-REP	8 FEET 14 GAUGE WHITE AND RED ELECTRICAL WIRE WITH CONNECTORS	1	Micro Bird
761232	BLUE CONNECTOR	2	Micro Bird
ES2000-2	HEAT SHRINK	2	Micro Bird
40E0009	REPLACEMENT PUSH PIN	3	Micro Bird
27E0307	REPLACEMENT CLIP FOR CONTROL PANEL	2	Micro Bird
N/A	ELECTRICAL TAPE	1	Shop supply
N/A	HEAT GUN (or DRYER)	1	Shop supply
N/A	CRIMPING PLIERS	1	Shop supply

## PROCEDURE

### Step 1 :

Pull to remove the control panel and identify the mirror defrost switch. Then, turn the panel over and locate the mirror defrost wires.

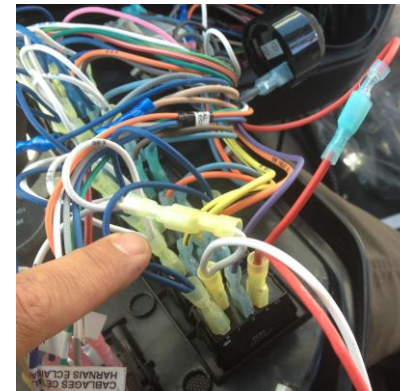
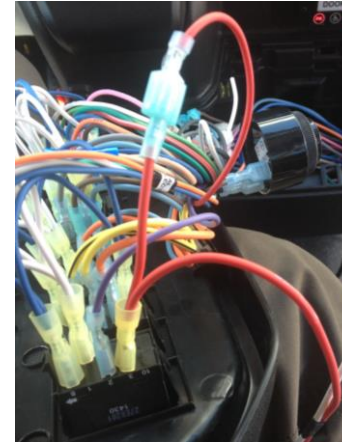
**Note:** Please make sure the key is out of ignition.



**Step 2 :**

Disconnect the red wire from the control panel and connect it to the red wire on the blue connector of the new wire kit sent to you. Then, connect the yellow connector with the new double red wire behind the switch in the control panel.

Do the same with the white wire connected to yellow connectors.



**Step 3 :**

Open the glove box and remove the bottom panel.

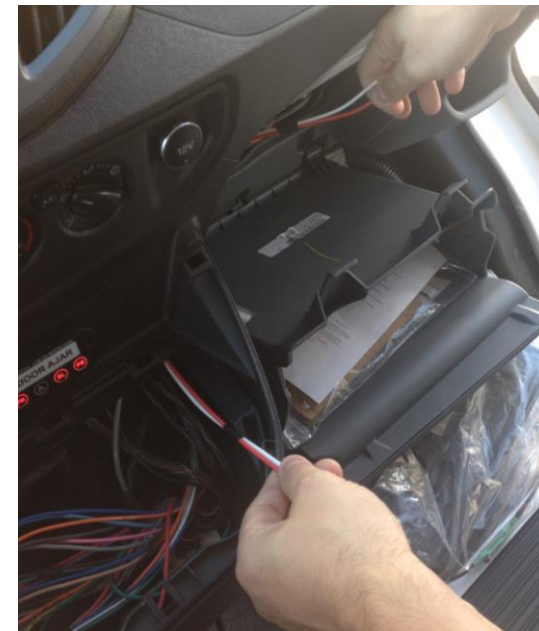


**Step 4 :**

Pass the white and red wire harness behind the dash from the control panel to the glove box. Fish the wire if necessary.

Fix the control panel in place.

**Note:** The component kit contains extra clips in case some broke when you initially remove the control panel.

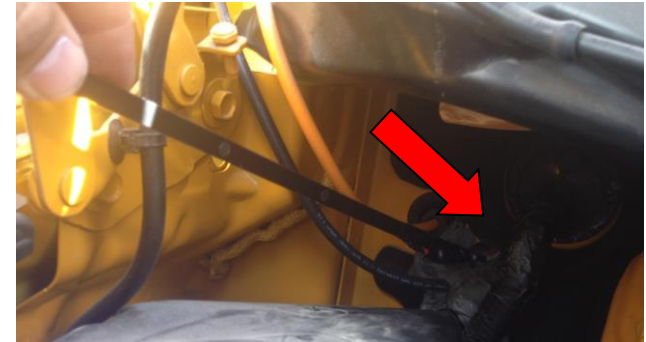


**Step 5 :**

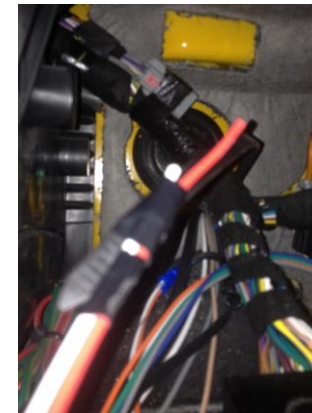
Guide the wires (white and red) from the glove box to under the hood.

Note that it is easier to fish from under the hood to the glove box. In order to do so, you will have to remove the grey sealant paste on the other side of the hole located inside the hood. Slide your steel fish tape until you reach the glove box.

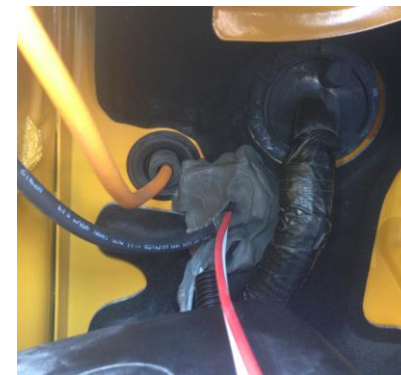
Then tie the wires from the glove box to the steel fish tape and pull it towards yourself. Pull the whole length of wires in the hood and put back the grey sealant paste around the wires.



(Fish goes in from the hood)



(Interior glove box view)



(Final view from the hood, after putting back the grey sealant paste)

**Step 6 :**

Install the loom on the wires and use electrical tape to fix the beginning and the end of the loom.

**Note:** The loom shall be installed up to the grey sealant paste but must not go into it.



**Step 7 :**

Remove the black plastic cap around the mirror arm on the passenger side and pull out the electrical harness.

**Note:** The red circles on the picture are the three (3) parts you must lift to remove the plastic cap. Please put a protection between the tool and the paint.



(Note : Please disregard the color of the bus shown on this picture; only school buses are recalled)



**Step 8 :**

Use the remote control harness as a fish tape.

Pull the extra length of the black remote control wire from the hood. Tie the new wires (white and red) on it and pull the wires towards yourself. Then remove the tape to separate the wires and cut the white and red wires unnecessary length (about 2 feet).



**Step 9 :**

On the actual electrical harness, find the cross view harness (the smallest cable) in which you will find a black and white wire.

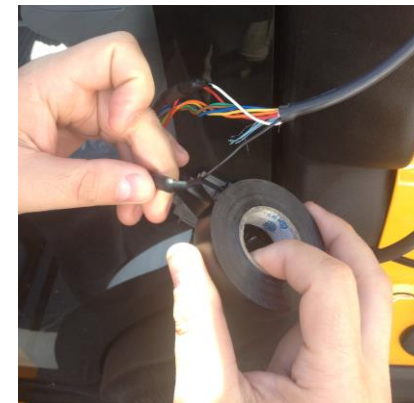
Disconnect the cross view mirror from the main harness. To do so, cut the white wire connected to the cross view mirror. Then cut the black one. **To avoid injuries, do not cut the two (2) wires at the same time for the white one is negative and the black one is positive.**



(Cut wires)

**Step 10 :**

Put electrical tape at the end of the wires (black and white) connected to the rear view mirror.



**Step 11 :**

Strip the black and white wires (one-half-inch) of the cross view mirror and use the crimping pliers to clamp the blue connectors of each wire.



**Step 12 :**

Insert the heat shrinks on each new wire (white and red). Then strip the red and white wires (one-half-inch) and connect them to the blue connectors.



**Step 13 :**

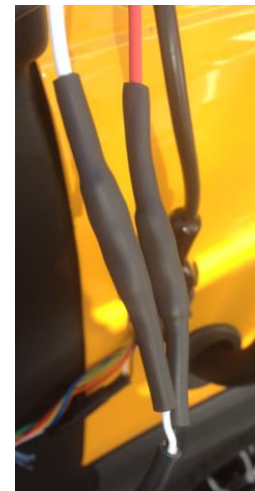
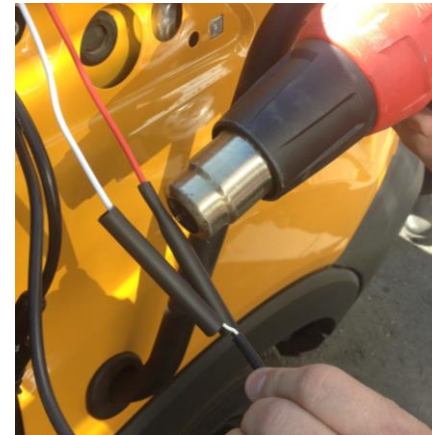
Test the heated mirrors to make sure they all work.

Turn the ignition key to “accessories” and activate the heated (defrost) mirror switch. You should feel the heat after a few minutes (5-10 minutes can be required).

If it does not work, verify the electrical connection. If it works, see step 14.

**Step 14 :**

Install the heat shrinks over the connectors and shrink them with a heat gun.



**Step 15 :**

Push the electrical harness back behind the plastic part on the side of the more view window and reinstall the black plastic cap.

**Note:** The component kit contains extra push pins in case some broke when you initially remove the black plastic cap.

