

MODEL:	TYPE:	SECTION/GROUP:	DATE:
<b>J Series</b>	<b>Field Change Program</b>	<b>07- Electrical</b>	<b>12/07/2018</b>

### **Customer Complaint:**

Motor Coach Industries ("MCI") has become aware that on MY2018 J4500 coaches, the potential exists for water intrusion into the remote junction boxes, potentially causing corrosion and possible failure of the electrical connections.

### **Cause:**

Due to the panel door of the remote boxes being flush with the coach exterior, the boxes are exposed to rain, washing and other forms of splashing water. Inadequate sealing of the remote boxes allows water to enter the boxes, potentially causing corrosion build-up and possible switch failure.

### **Corrective Action:**

MCI strongly urges owners of the affected coaches to have the following procedure performed as soon as possible.



***Read this entire procedure before beginning work.***

***Use Safe Shop Practices At All Times.***

***To avoid personal injury:***

- a. Turn the main battery disconnect switch to the OFF position.***
- b. Ensure that both the front and the rear wheels are chocked.***
- c. Position the ENGINE RUN and ENGINE START switches on the engine compartment remote control box to the OFF position.***
- d. Allow enough time for components to cool down prior to working in the engine compartment.***

## 1.0 Material requirements

Service Kit **T07-3598** contains the following parts:

ITEM	PART NO.	QTY	U/M	DESCRIPTION
1	19-02-0438	8	EA	#8 SEALING WASHER
2	19-01-2373	8	EA	SST SCREWS FOR DTM
3	19-02-0439	12	EA	#6 SEALING WASHER
4	19-02-0440	8	EA	1/2 SEALING WASHER
5	19-08-0143	1	EA	1/2 SEALING PLUG
6	19-11-4264	1	EA	DEUTSCH HD10 GASKET
7	19-11-3493	2	EA	DEUTSCH L012 GASKET (DTM)
8	19-05-0425	2	EA	DUCKBILL DRAIN VALVE
9	19-02-0441	2	EA	3/8 SEALING WASHER
10	23-02-0123	1	TUBE	ADHESIVE - CYANOACRYLATE, CA40, 1OZ
11	23-05-0005	1	TUBE	ALCOHOL – ISOPROPYL

## 2.0 Special Tools

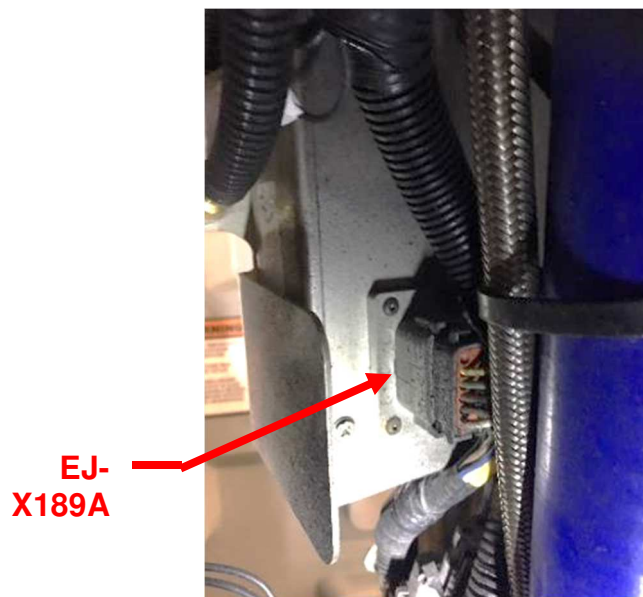
No special tools needed for this installation

### 3.0 Removing the RH Rear Service Door “Remote Junction Box” -

Open the curb side rear door of the coach to view the remote junction box

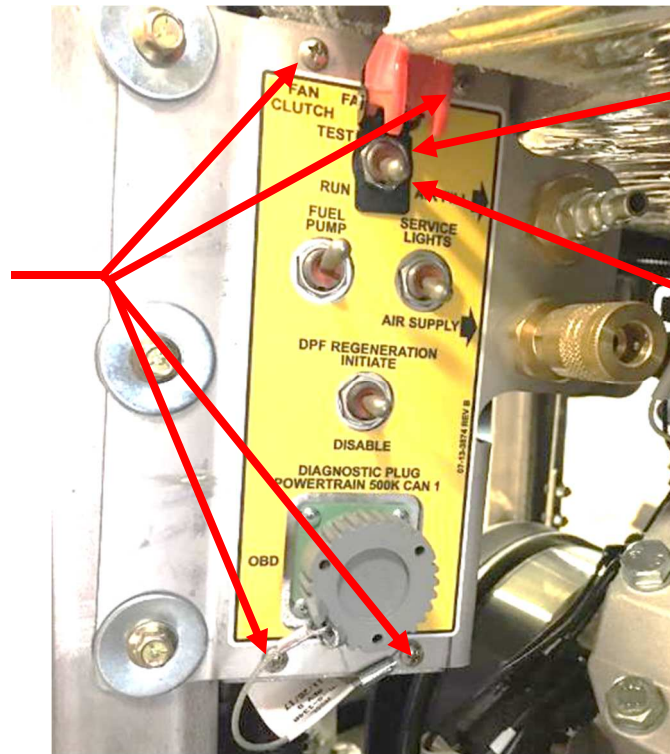


Disconnect the connector EJ-X189A on the rear of the box



Raise the toggle switch cover and remove the toggle switch nut, then remove the four screws on the front plate holding the box.

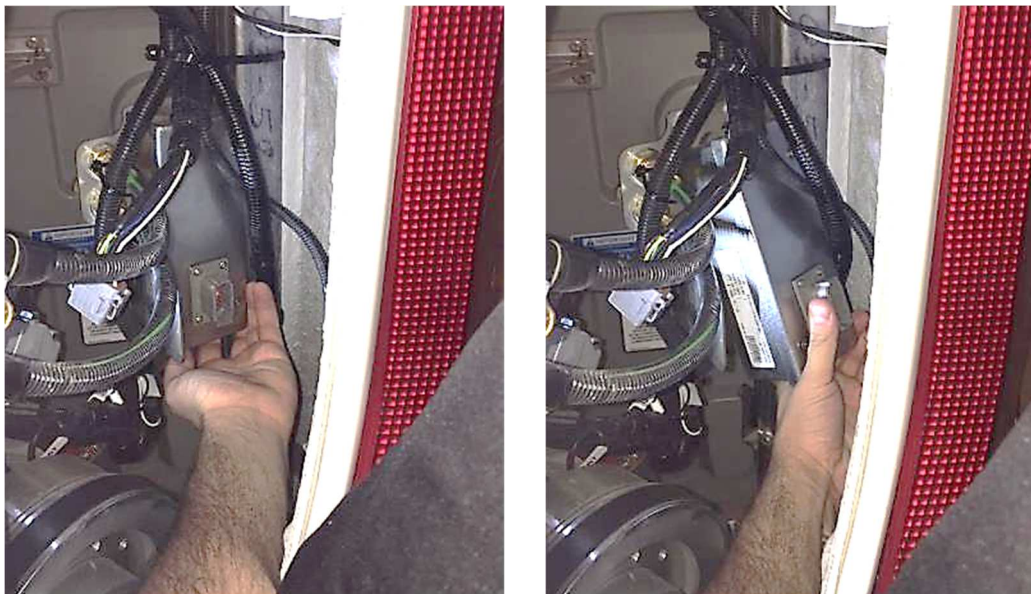
**REMOVE FOUR  
SCREWS**



**REMOVE NUT  
& SWITCH  
COVER**

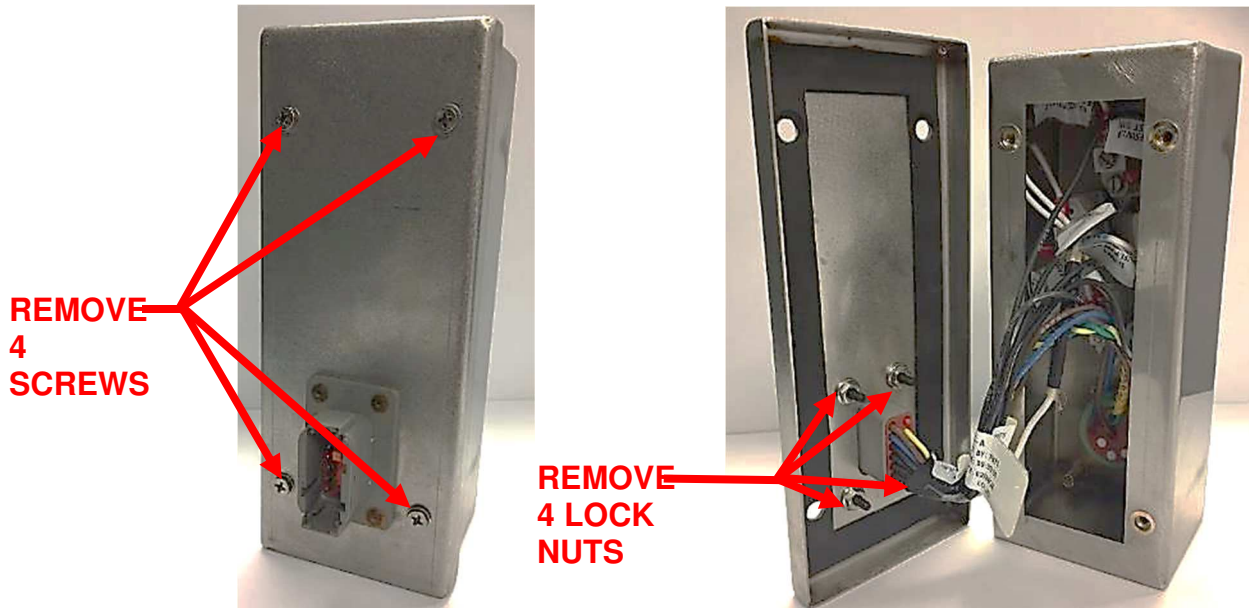
**TOGGLE  
SWITCH**

Remove the box from the rear of the engine compartment rear door.

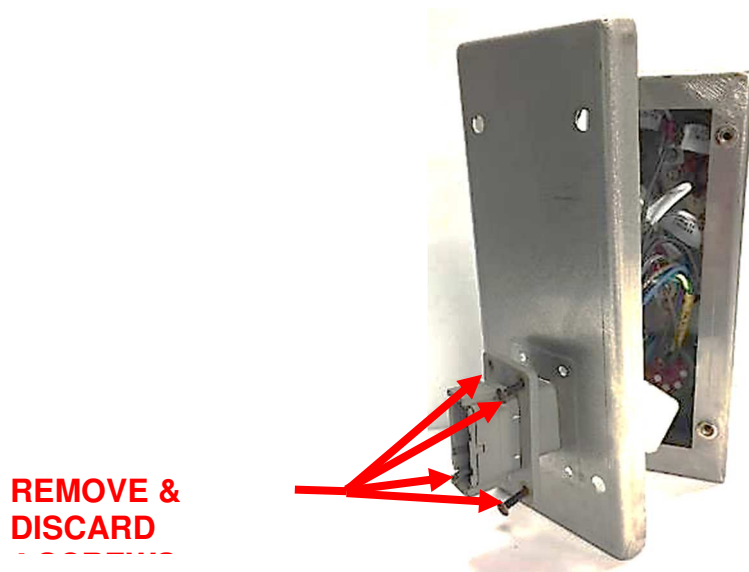


### 3.1 Opening the box

Remove the four cover screws, washers and open the cover. Remove the four locknuts on the EJ-X189 bulkhead connector.

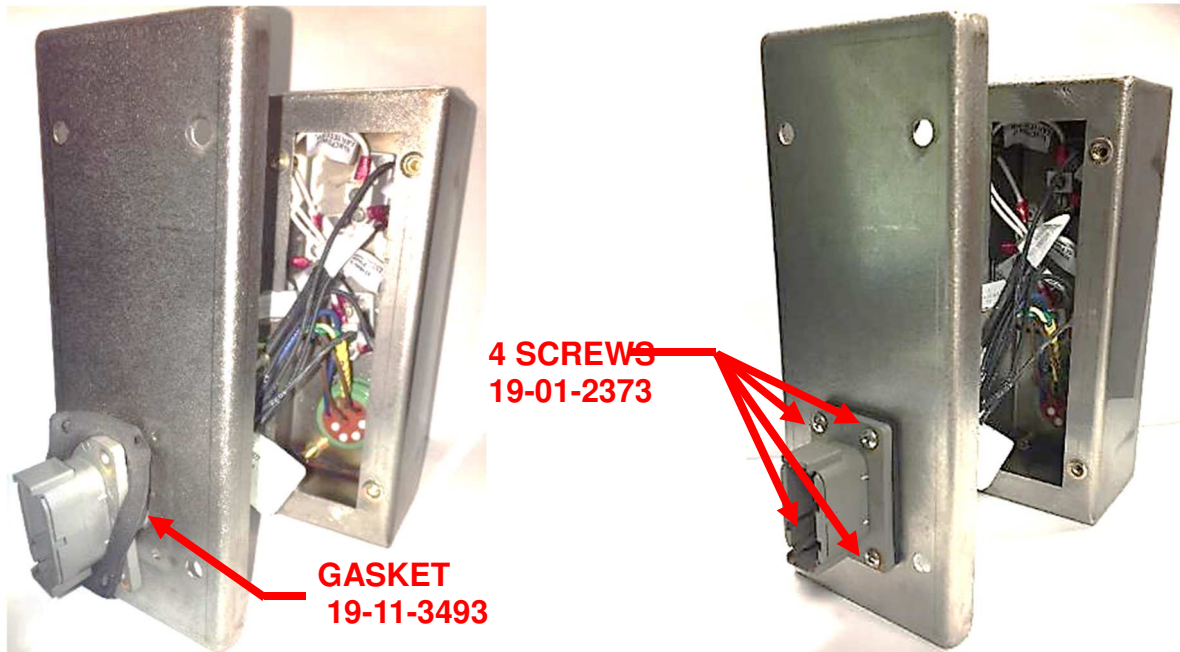


Remove and discard the four screws and pull out the connector from the rear cover.

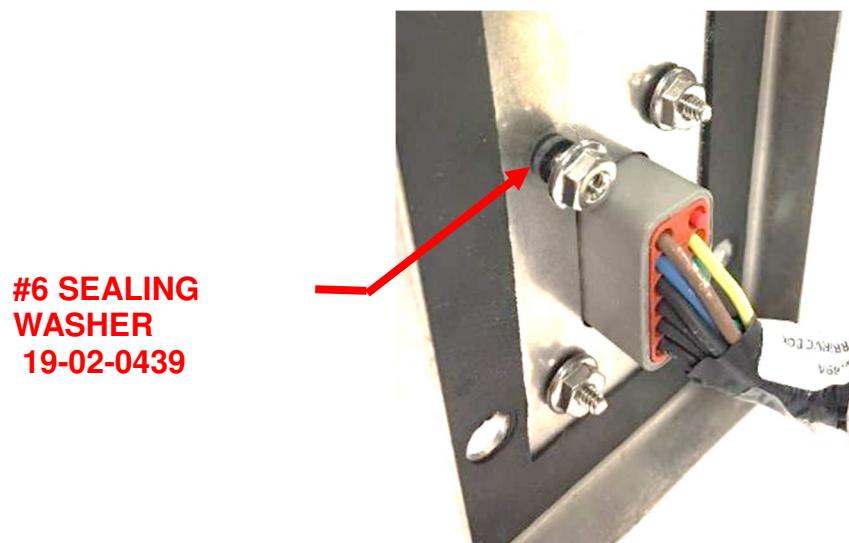


### 3.2 Installing the rear connector gasket

Stretch the Deutsch gasket 19-11-3493 (VPN DT12-L012-GKT) over the connector, taking care not to tear the gasket. Push the connector and gasket against the cover, then install the four new stainless steel screws 19-01-2373 to secure the connector.

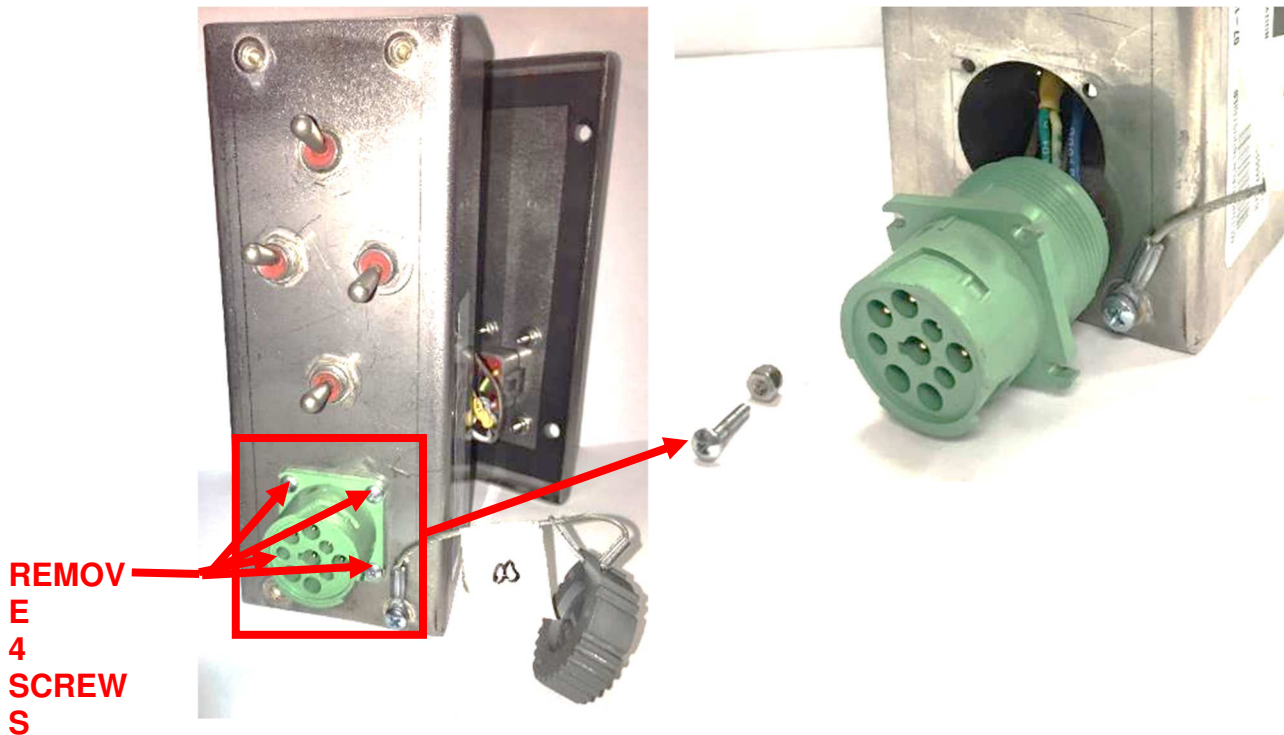


Install the #6 sealing washer 19-02-0439 onto the stainless steel screws. Then reinstall the existing locknuts onto the stainless steel screws.

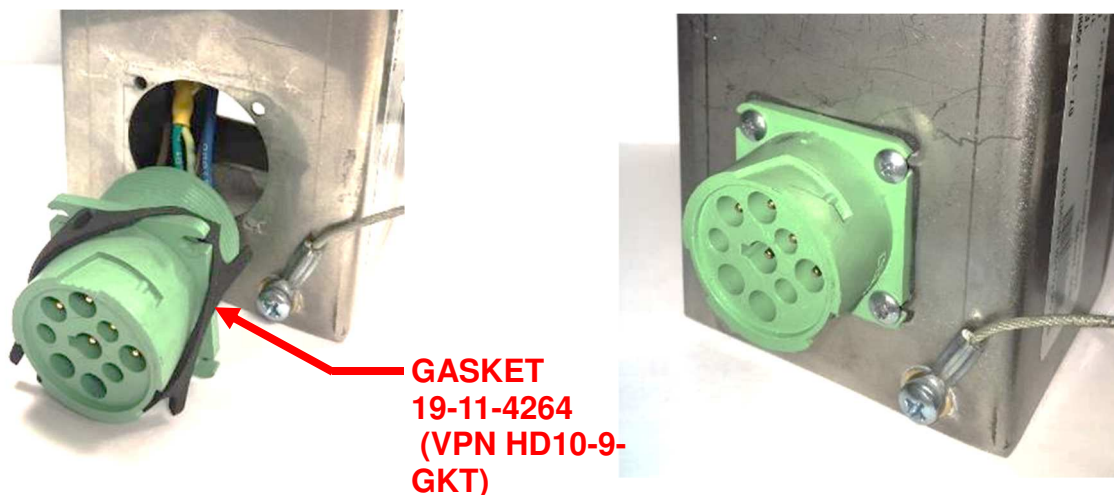


### 3.4 Installing the front connector gasket

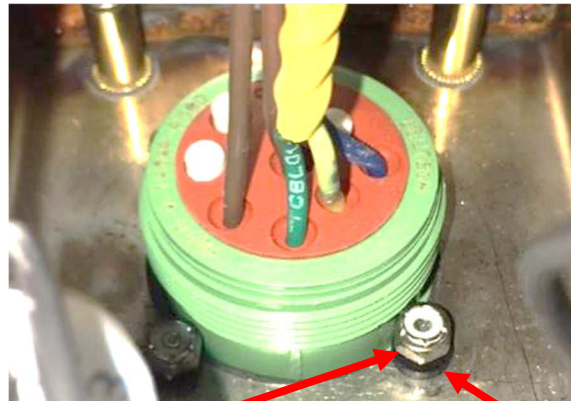
Remove the four screws and locknuts and pull out the diagnostic connector EJ-X52 from the enclosure.



Stretch the Deutsch gasket 19-11-4264 (VPN HD10-9-GKT) over the connector, taking care not to tear the gasket. Press the connector and gasket against the cover. Then reinstall the four screws.



Install the #6 sealing washer 19-02-0439 onto the original screws and reinstall the four original lock nuts. Use a screwdriver or similar rod with a small diameter to help guide the washer onto the screw.



**EXISTING LOCK NUT**

**USE  
SCREWDRIVER  
AS A GUIDE TO  
PLACE THE  
WASHER OVER  
THE SCREW**

**#6 SEALING  
WASHER 19-02-0439**

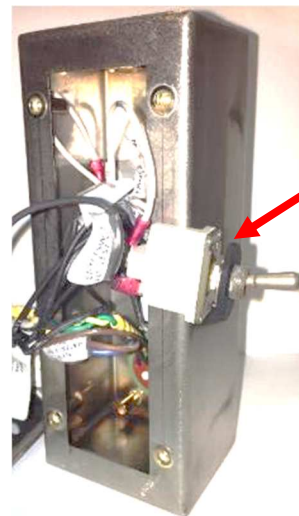
### 3.5 Installing the switch sealing washers

Remove one nut and lock washer from one of the four switches. Then remove a switch and insert a 1/2" sealing washer 19-02-0440 onto the shaft.

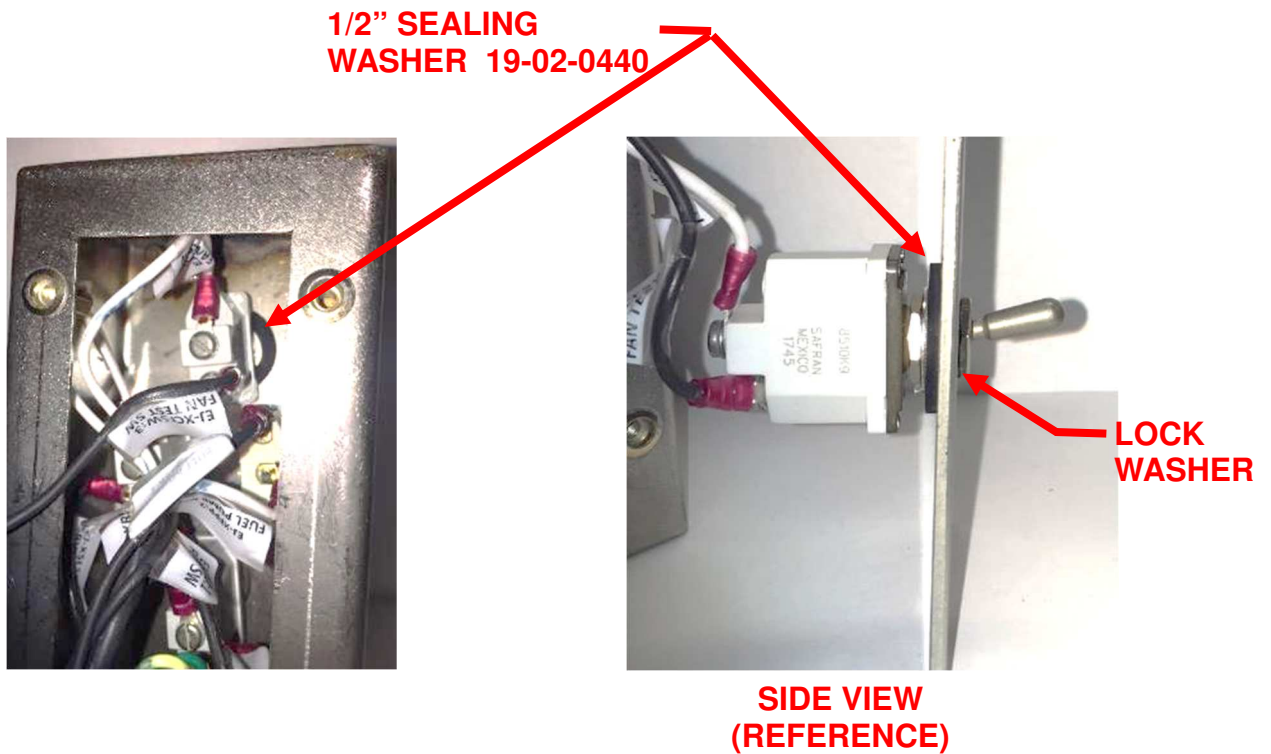
**REMOVE NUT &  
LOCK WASHER**



**1/2" SEALING  
WASHER 19-02-0440**



Insert the switch back into the enclosure and re-assemble the lock washer and nut onto the switch as shown below:

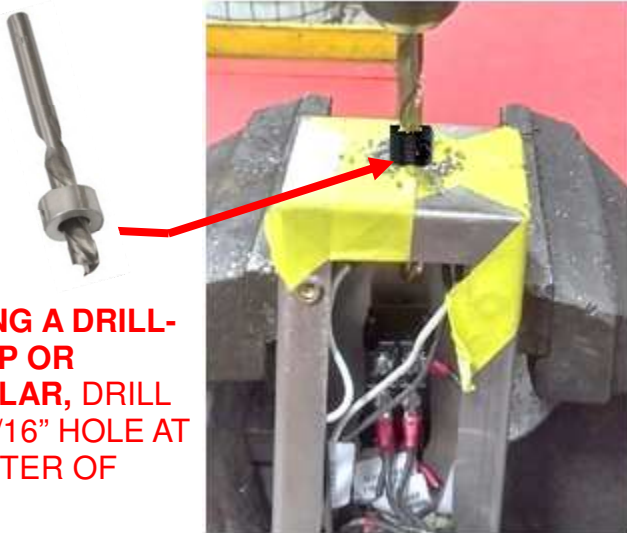


Repeat the previous steps for the remaining switches.

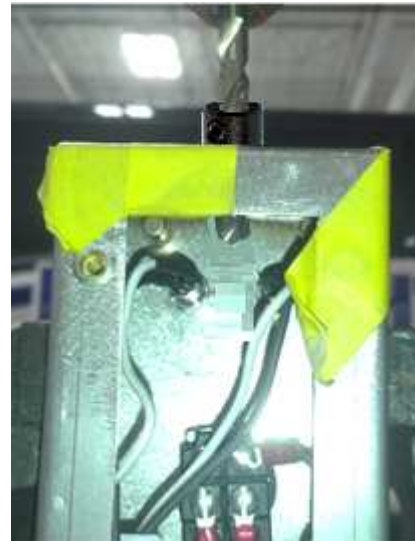
### 3.6 Installing the “Duckbill”

Drill an 11/16” hole in the bottom center of the box making sure to avoid the LED lamp and wires by using a drill-stopper, pipe or similar.

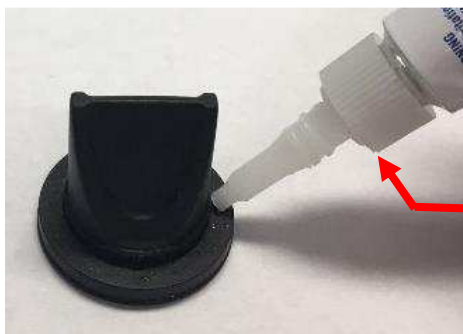
Deburr any rough edges of the hole and remove all metal shavings in the enclosure.



**USING A DRILL-STOP OR SIMILAR, DRILL A 11/16” HOLE AT CENTER OF BOX**



Add cement adhesive 23-02-0123 (or equivalent) to bottom flange on the duckbill 19-05-0425. Then install duckbill 19-05-0425 inside box and allow at least 10 minutes to dry.

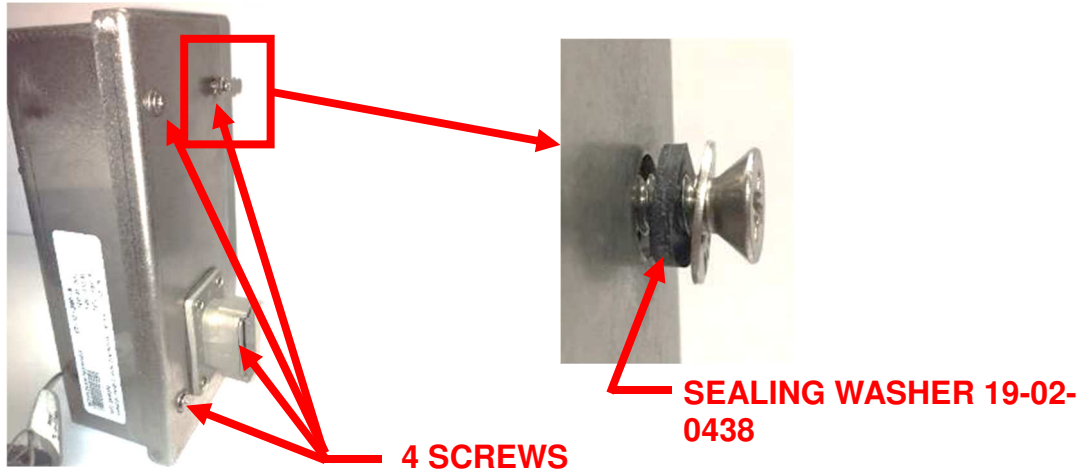


**APPLY ADHESIVE 23-02-0123**



### 3.6 Installing the box cover

Place the enclosure cover onto the enclosure with the connector at the bottom of the assembly. Assemble #8 sealing washers 19-02-0438 to the four cover screws and insert a screw in each of the holes into the cover.



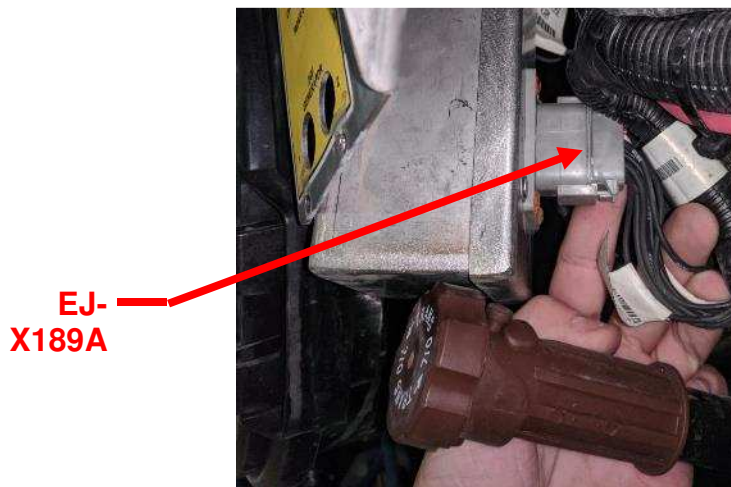
## 4.0 Rework Instructions – Rear Starter Box

### 4.1 Removing the Rear Starter “Remote Junction Box”

Open the rear door of the coach to view the remote junction box.



Disconnect the connector EJ-X189A on the rear of the box.



Remove the four screws on the front plate holding the box.

**REMOVE FOUR  
SCREWS**

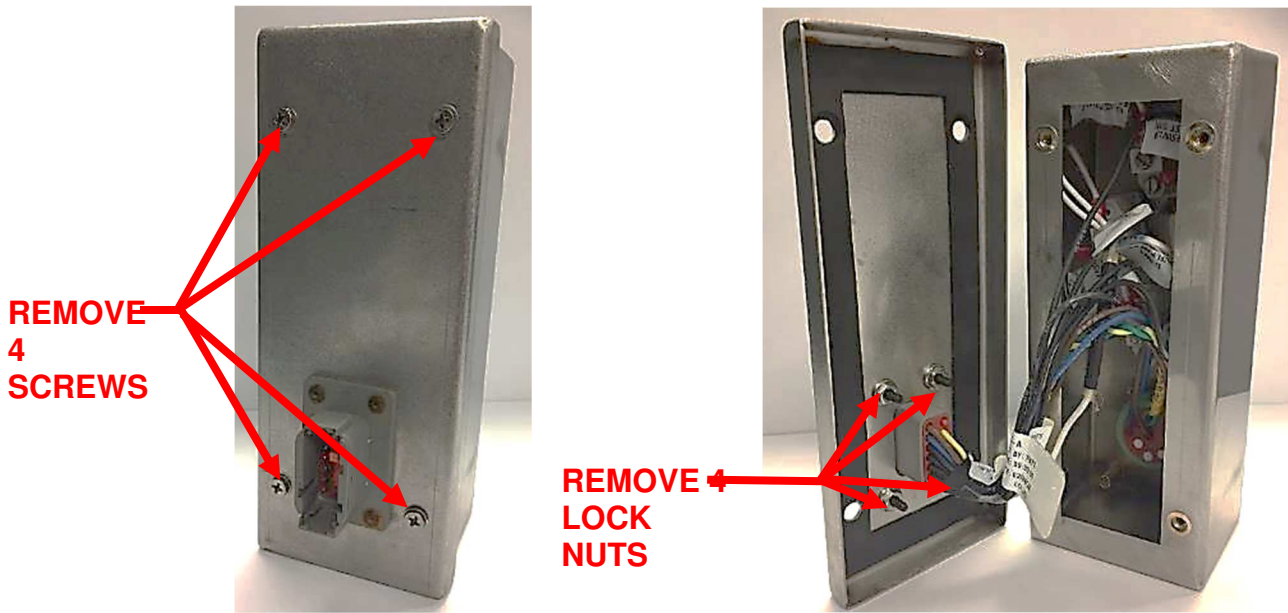


Remove the box from the rear of the engine compartment rear door.

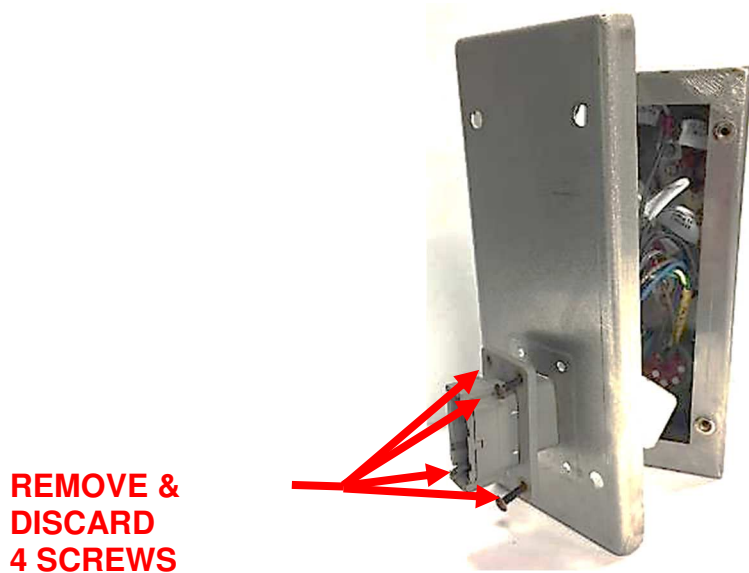


## 4.2 Opening the box

Remove the four cover screws, washers and remove the cover, then remove the four connector locknuts shown below:

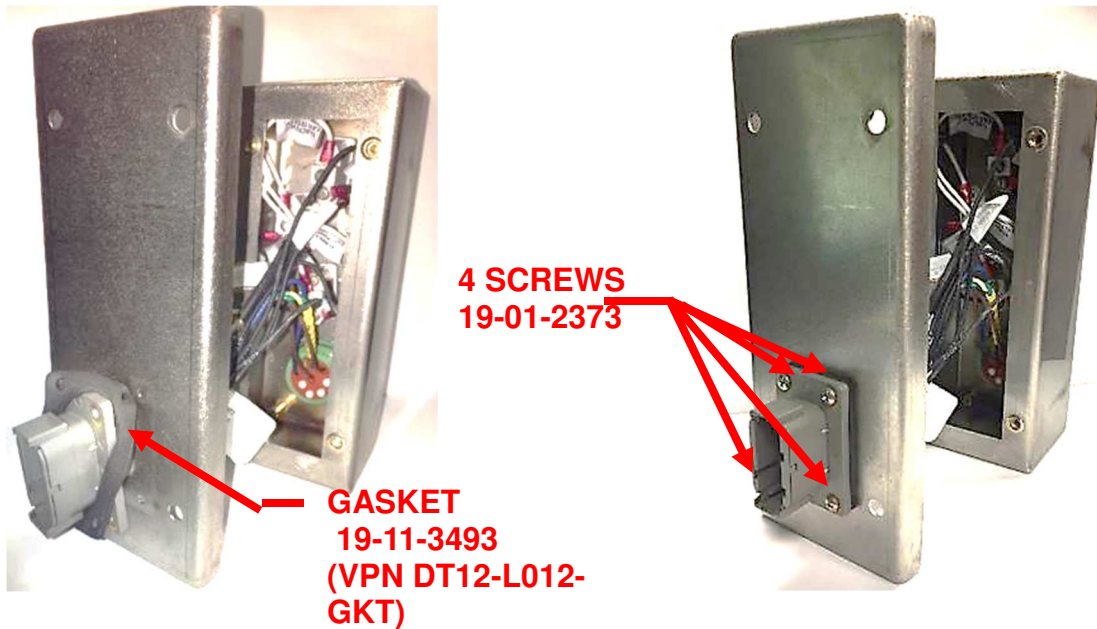


Remove and discard the four screws and pull out the connector from the rear cover.

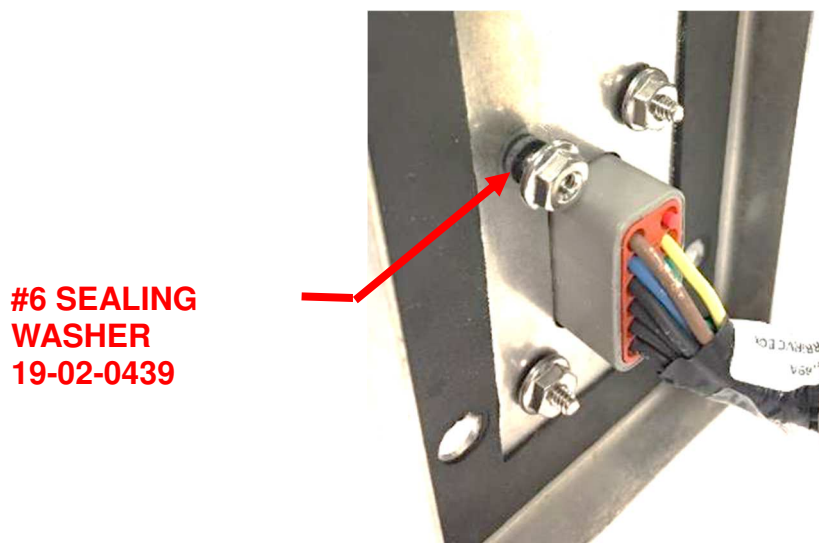


### 4.3 Installing the rear connector gasket

Stretch the Deutsch gasket 19-11-3493 (VPN DT12-L012-GKT) over the connector, taking care not to tear the gasket. Push the connector and gasket against the cover. Then install the four new stainless steel screws 19-01-2373.

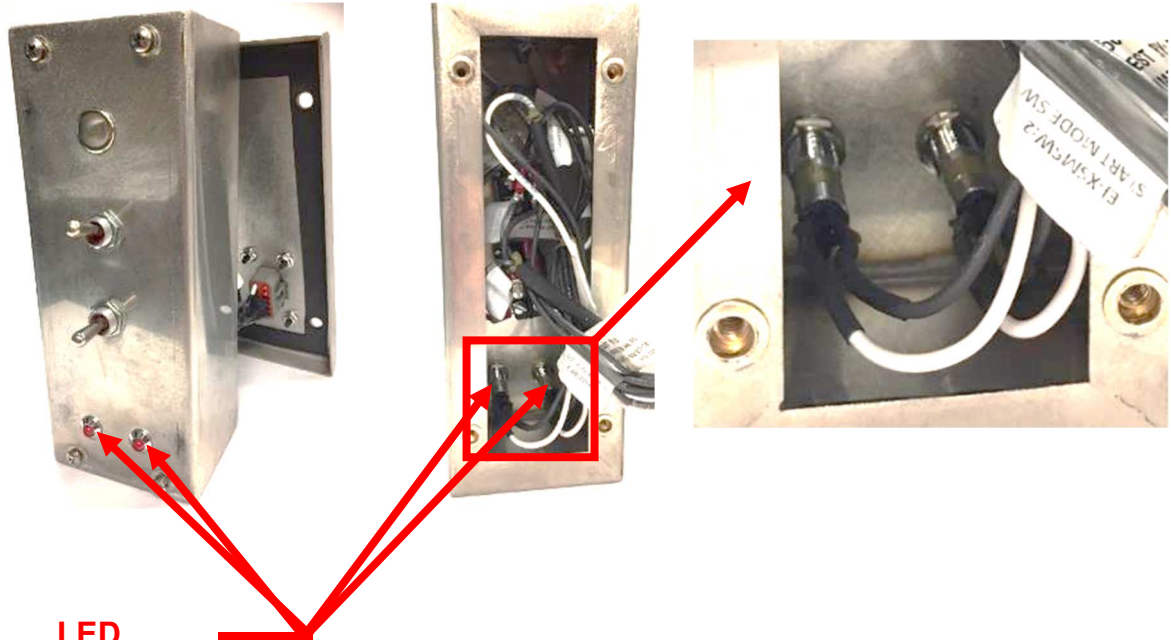


Install the #6 sealing washer 19-02-0439 onto the stainless steel screws. Reinstall the existing locknuts onto the stainless steel screws as shown below:



#### 4.4 Installing the 3/8" LED lamp washers

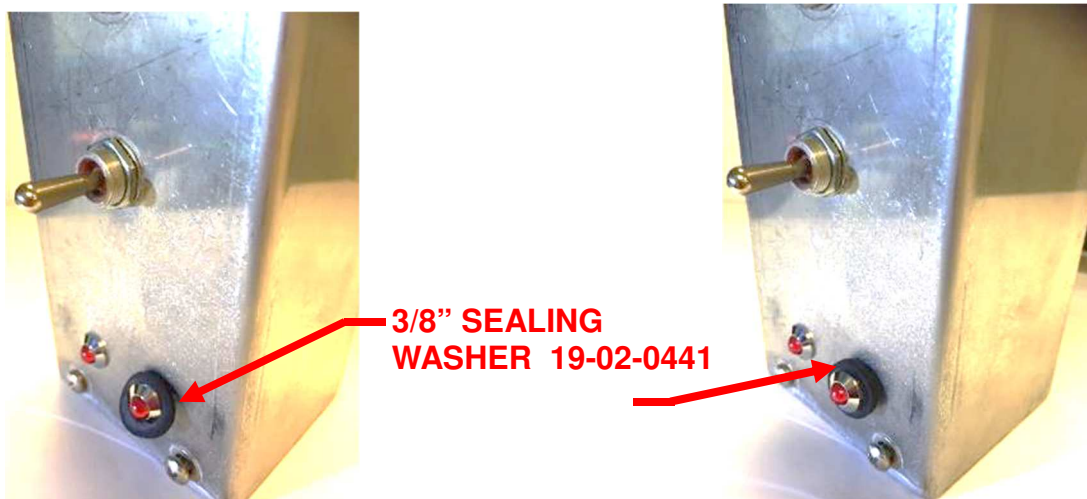
Loosen one nut on an LED lamp and pull it out enough to install a washer.



**LED  
LIGHTS**

Stretch a 3/8" sealing washer 19-02-0441 over the front of the LED lamp. Then tighten the nut on the back of the LED lamp.

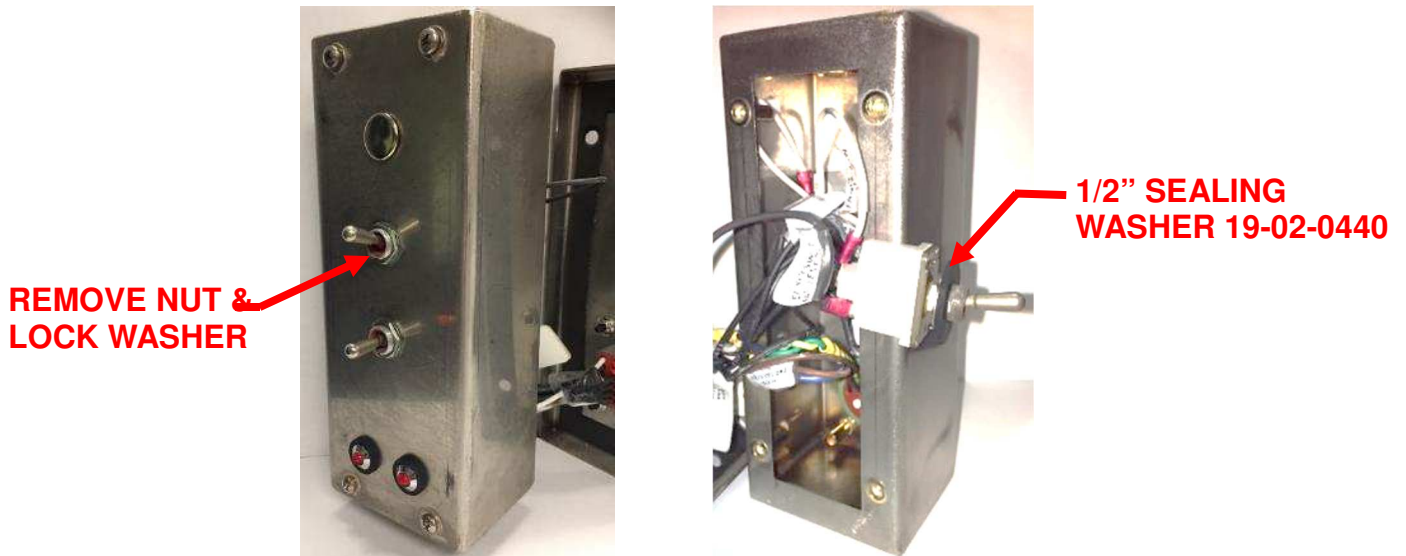
Repeat the previous steps for the remaining LED lamp.



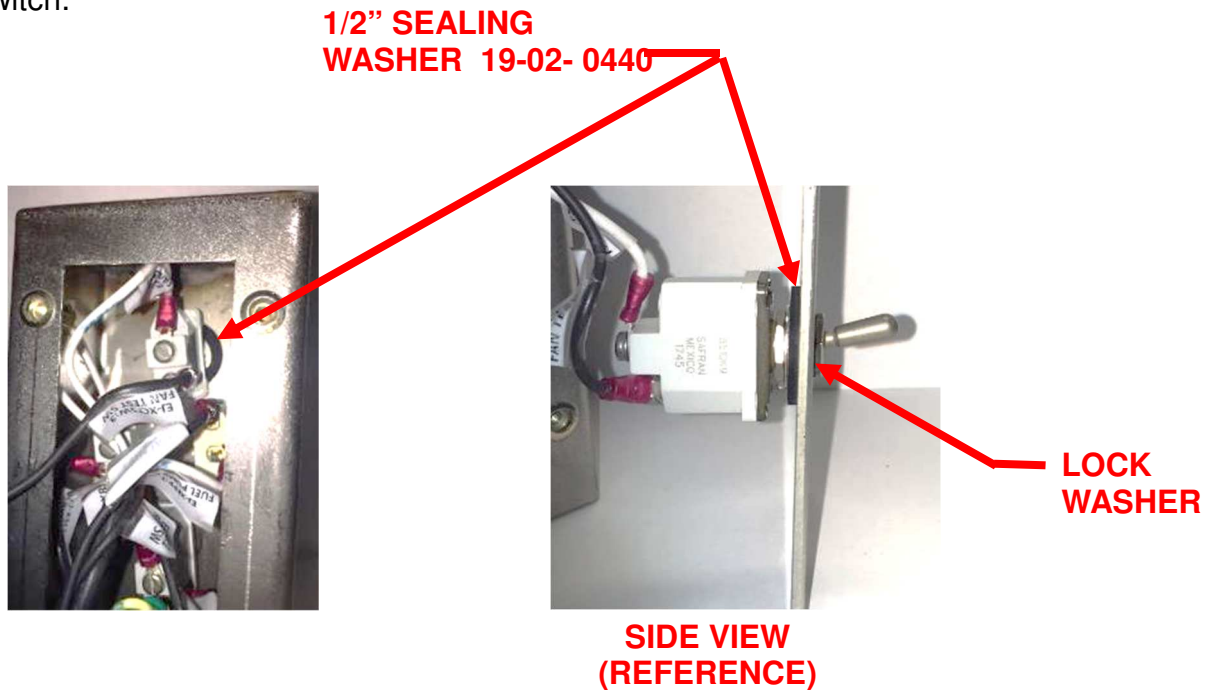
**3/8" SEALING  
WASHER 19-02-0441**

### 4.5 Installing the 1/2" switch sealing washers

Remove one nut and lock washer from one of the four switches. Then remove the switch and assemble a 1/2" sealing washer 19-02-0440 over the shaft.



Insert the switch back into the enclosure and re-assemble the lock washer and nut onto the switch.



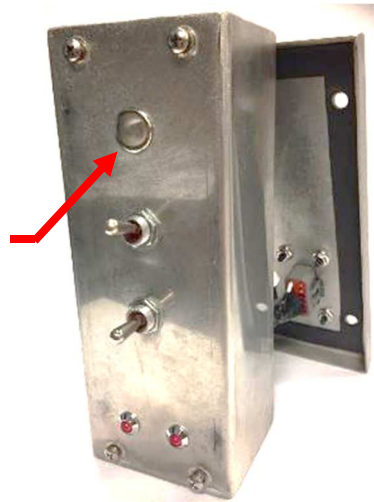
Repeat the previous steps for the remaining three switches.

#### 4.6 Installing the 1/2" Sealing Plug

Remove the button plug from the top hole and insert a 1/2" sealing plug 19-08-0001.

If a switch is equipped in the top hole, install a sealing washer as shown in section 4.5 instead of the button plug.

**REMOVE  
1/2" BUTTON  
PLUG**



**1/2" SEALING  
PLUG 19-08-0143**

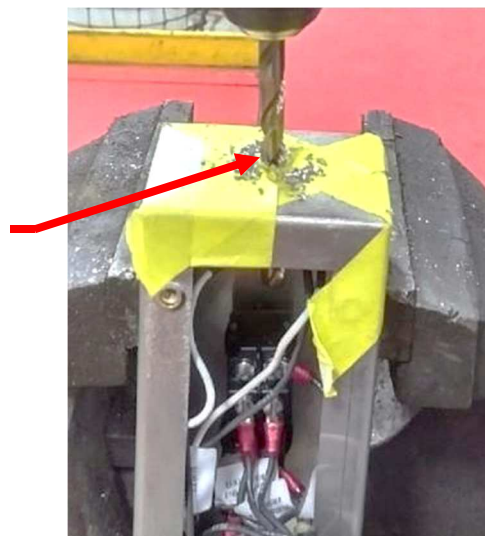


#### 4.7 Installing the "Duckbill"

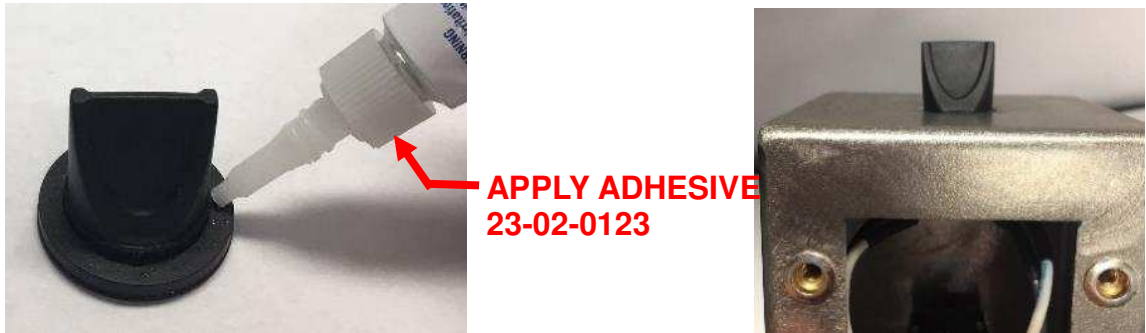
Drill an 11/16" hole in the bottom center of the box making sure to avoid the LED lamp and wires.

Deburr both sides of the hole and remove all metal shavings in the enclosure.

**DRILL 11/16"  
HOLE AT  
CENTER OF  
BOX**

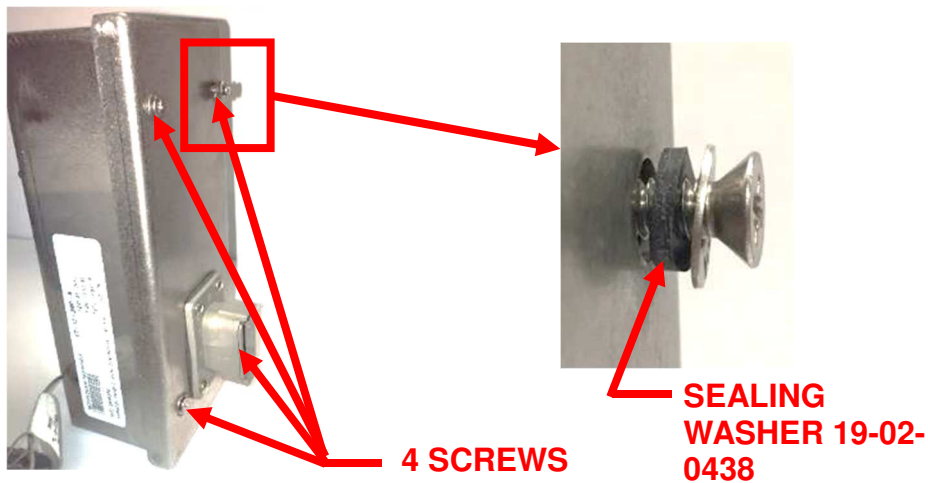


Add cement adhesive 23-02-0123 (or equivalent) to bottom flange on the duckbill 19-05-0425. Then install duckbill 19-05-0425 inside box and allow at least 10 minutes to dry.



#### 4.8 Installing the box cover

Place the enclosure cover onto the enclosure with the connector at the bottom of the assembly. Then assemble #8 sealing washers 19-02-0438 to the four cover screws and insert a screw in each of the holes into the cover.





## **5.1 Field Change Program Conditions:**

The parts required for this change will be supplied without charge.

A labor allowance of 1.5 hour will be granted for this rework on affected J series coaches.

This labor allowance will be credited to your MCI Fleet Support Parts Account on receipt of the attached "MCI Field Change Program Verification Form" and a "Warranty Claim Form" as detailed in your Owner Warranty manual to MCI's Warranty department. A "MCI Field Change Program Verification Form" needs to be submitted for each VIN affected. Photocopy the attached "MCI Field Change Program Verification Form" as required for the number of affected coaches in your fleet.

This program will end on December 31, 2019.

Motor Coach apologizes for any inconvenience resulting from this campaign, but urges you to implement this change as soon as possible.

Sincerely,

Motor Coach Industries



## 5.2 MCI FIELD CHANGE PROGRAM (FCP) VERIFICATION

<b>CONTACT INFORMATION</b>	
<b>CUSTOMER NAME:</b>  _____	
(PLEASE PRINT)	
<b>FCP INFORMATION – ONE FORM PER UNIT</b>	
<b>FCP#:</b> _____ <b>Coach Model</b> _____ <b>Model Year</b> _____ _____	
<b>COACH SERIAL #:</b> (At least the last 5 digits)	<b>DATE COMPLETED</b> __ / __ / __
<b>MILEAGE:</b>	
<b>IMPORTANT: TO RECEIVE CREDIT FOR ANY ALLOWABLE LABOR CHARGES, THIS VERIFICATION FORM MUST BE RETURNED TO MCI UPON COMPLETION OF THE FCP.</b>	
<b>SUBMITTED BY: (Please Print)</b>  _____	
_____	DATE
__ / __ / __	
<b>TITLE: (Please Print)</b> _____	
<b>SIGNATURE:</b>  _____	
<b>COMMENTS:</b>   	



**FAX TO: 800-360-8886**

Mail or fax the completed limited warranty claim form and verification form to MCI's warranty department, or photocopy and mail to:

**MCI Fleet Support**

**Attn: Warranty Department**

**7001 Universal Coach Drive Louisville, KY 40258**

**Fax Number 1-800-360-8886**

To receive credit for the hours used to complete this task. Contact the MCI Fleet Support Technical Center at 1-800-241-2947 for any further information.