

**NEW VEHICLE DEMONSTRATION / DELIVERY HOLD –
Customer Satisfaction Program 17B25 – Supplement #3**
Certain 2013-2017 Model Year Police Interceptor Utility Vehicles
Exhaust Odor and Carbon Monoxide Complaints

KEY MESSAGES FOR DEALERS / Q&A

Safety is our top priority. To address police customers who drive modified vehicles in unique ways, we are covering the costs of specific repairs in every Police Interceptor Utility that may have exhaust odor and carbon monoxide concerns, regardless of modifications made after leaving Ford's factory.

Key Messages

- Ford Motor Company engineering teams continue working with law enforcement agencies in their communities to investigate and address carbon monoxide concerns in some Ford Police Interceptor Utilities.
- Ford dealers will check and seal the rear of the vehicle where exhaust can enter, update the air conditioning to bring in more fresh air during heavy acceleration typical of police driving, check for engine codes that could indicate a damaged exhaust manifold and add downward facing exhaust tips that further direct exhaust away from the vehicle.
- We continue to investigate. We have not found levels of carbon monoxide in non-Police Ford Explorers that present a risk to safety by exceeding the thresholds of normal exposure in everyday life.
- We have tested Police Interceptor Utilities with exhaust odor concerns, finding variable levels of carbon monoxide, depending on how well the rear of the vehicle was sealed after installation of aftermarket police equipment.
- Unsealed holes can allow exhaust gases to enter the vehicle during aggressive acceleration and high speed driving unique to police use.
- If a customer believes their vehicle may be experiencing an issue, they should bring it to a Ford dealer for inspection. Customers also can call a dedicated hotline at 888-260-5575.

Q. How do you know there are no carbon monoxide issues with regular Explorers?

A. We continue to investigate. We have not found levels of carbon monoxide in non-Police Ford Explorers that present a risk to safety by exceeding the thresholds of normal exposure in everyday life.

Q. How many vehicles has Ford fixed so far?

A. Ford has worked side-by-side with more than a dozen police agencies nationwide to inspect and repair more than 50 vehicles in cities and towns, such as Auburn, Massachusetts and Galveston, Texas

Q. Are you considering a recall?

A. Our decisions are driven by the data available. When the data indicates a safety recall is needed, we move quickly on behalf of our customers.

Q. What repairs will dealers make?

A. Ford dealers will check and seal the rear of the vehicle where exhaust can enter, update the air conditioning to bring in more fresh air during heavy acceleration typical of police driving and check for PCM codes that could indicate an exhaust catalyst efficiency concern.

- Q. What is your response to complaints from police on cracked exhaust manifolds that may be causing carbon monoxide concerns?**
- A. All of our testing to date has not shown cracked exhaust manifolds contributing to the carbon monoxide levels in Police Interceptor Utilities. We are continuing to investigate.
- Q. Will you replace cracked exhaust manifolds?**
- A. If PCM codes indicate an exhaust catalyst efficiency concern is present in the vehicle, we will replace that exhaust catalyst/manifold assembly under our program.
- Q. Does Ford recommend police departments put in carbon monoxide detectors in their vehicles? Will Ford pay for them?**
- A. We encourage our police customers to bring their vehicle to their local Ford dealer.
- Q. How long does this program run?**
- A. For vehicles covered by this program, coverage will remain in effect until September 30, 2018.
- Q. Will Ford reimburse for repairs/TSB work already done?**
- A. Yes. If a police customer or consumer already had repairs for the specific repairs under this concern, Ford will reimburse the customer for those costs. Refer to Attachment I in the dealer bulletin for details.
- Q: Why is Ford recommending removal of aftermarket lighting and/or equipment from the liftgate spoiler?**
- A: During our investigation, Ford found a wide assortment of aftermarket lighting and/or equipment products and installation practices. Ford can only ensure proper sealing of the spoiler when aftermarket lighting and/or equipment are removed and the spoiler is resealed.
- Q: Is Ford recommending that no aftermarket lighting and/or equipment can be attached to the liftgate spoiler?**
- A: Ford strongly recommends that fleets work with their installers and/or equipment suppliers to ensure that both the equipment and installation practices are robust and do not compromise vehicle sealing. Refer to the Customer Information Form for additional details.
- Q: What should a Ford dealer do if a fleet declines the service to remove the aftermarket lighting and/or equipment from the spoiler, and reseal the spoiler?**
- A: Dealers should complete all other steps of the field service action, document on the repair order that the spoiler sealing service was declined, print and provide the customer with the Customer Information Form (see bulletin attachments), and release the vehicle to the customer.
- Q: Is Ford paying to replace aftermarket lighting and/or equipment if removed from the spoiler?**
- A: No. Replacement aftermarket lighting and/or equipment is not part of 17B25.
- Q: Can Ford recommend a brand and model of aftermarket lighting and/or equipment that allows for proper sealing when mounted to the spoiler?**
- A: Currently, the only Ford approved spoiler lighting solution is the Ford Rear Spoiler Traffic Warning Lights option (96T), which is compatible with 2017 Police Interceptor Utilities. Police equipment suppliers are working to develop solutions for existing spoiler mounted lighting and/or equipment products.



17B25 – Customer Information Form

Liftgate Spoiler – Aftermarket Lighting and/or Equipment

Your vehicle is equipped with aftermarket lighting and/or equipment mounted to the liftgate spoiler that may prevent proper sealing. You have instructed the Dealer not to remove this equipment.

There is a wide assortment of aftermarket lighting and/or equipment products in the marketplace. In addition, installation practices vary greatly. Because of this variation, Ford cannot ensure proper sealing of the spoiler to the vehicle without removing the lights and/or equipment. Ford recommends that you work with your installer and/or equipment supplier to ensure proper sealing of the spoiler.

NOTE: Police equipment suppliers are working to develop solutions for existing spoiler mounted lighting and/or equipment products.

Examples of Liftgate Spoiler Aftermarket Lighting and/or Equipment and Installation Concerns:

- Brackets positioned between the spoiler and the liftgate (See Figure 1)
- Lighting and/or equipment that forces the spoiler out of position creates a gap between the spoiler and the liftgate (See Figure 2)
- Unsealed holes drilled in the spoiler or liftgate (See Figures 3 and 4)
- Wiring for lighting and/or equipment routed from the spoiler to the vehicle in a manner that damages the seals between the spoiler and the vehicle (See Figures 5 and 6)
- When the spoiler is removed to install aftermarket lights and/or equipment, the spoiler attachment clips and seals may be damaged. If the spoiler was removed from the vehicle, the spoiler attachment clips and seals should be replaced. Use part number HB5Z-78442K03-A

Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

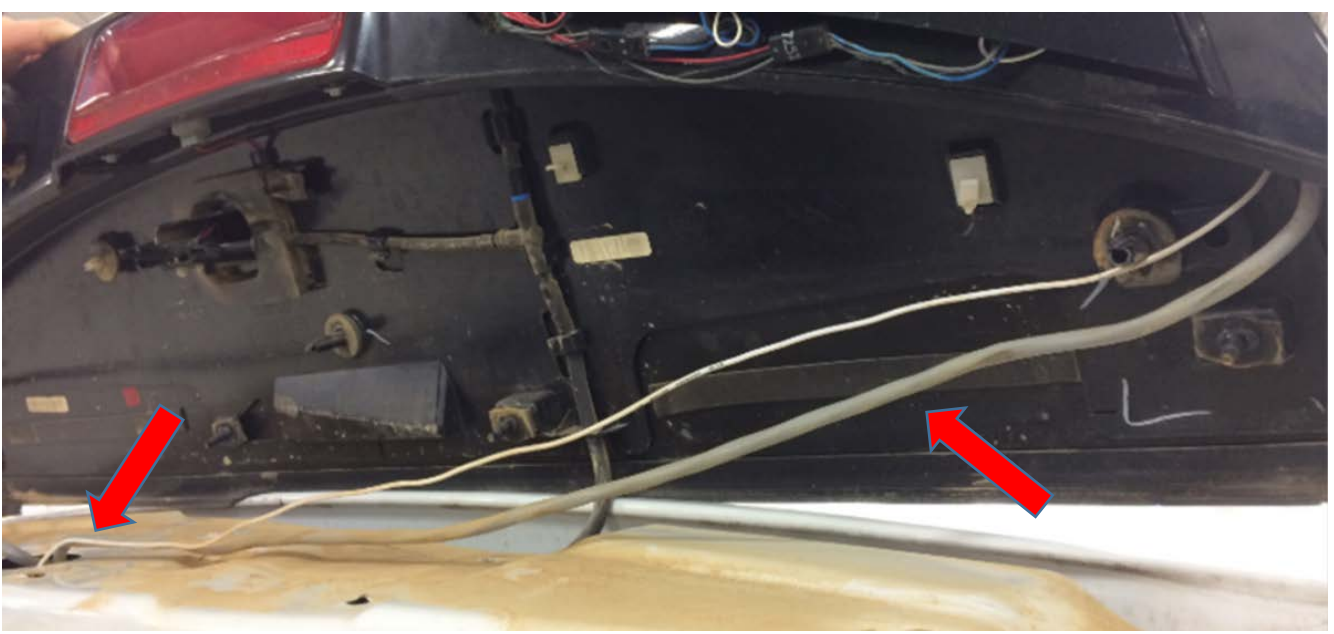
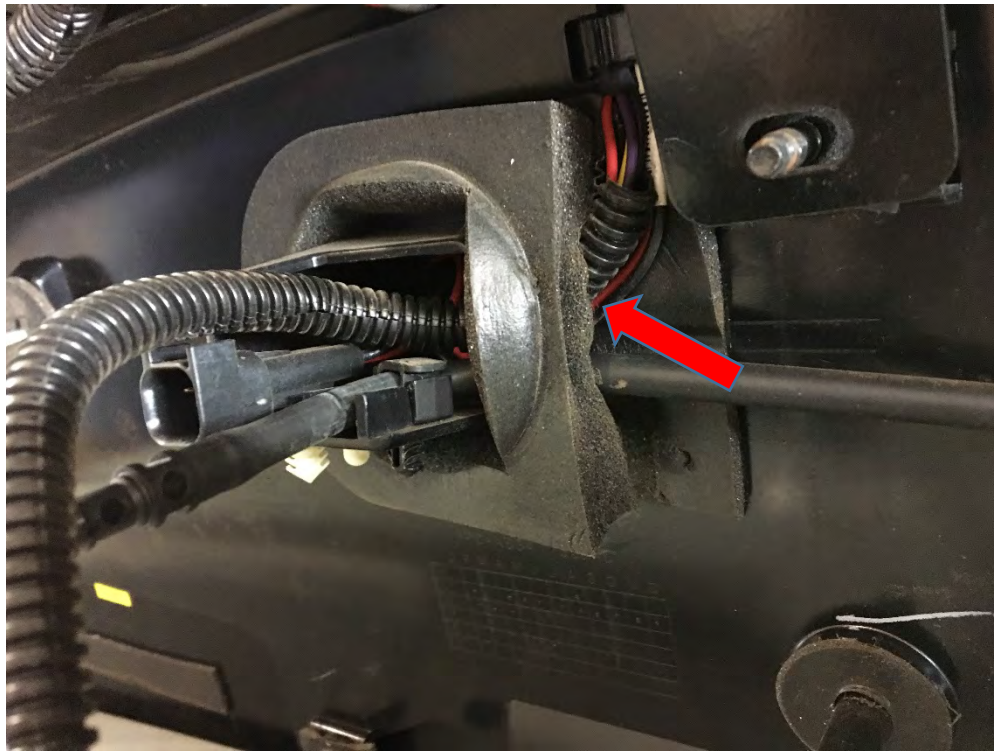


Figure 6



**NEW VEHICLE DEMONSTRATION / DELIVERY HOLD –
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6 Important Facts About Carbon Monoxide and Police Vehicles

In response to police departments raising concerns about the possible presence of carbon monoxide (CO) in some Ford Police Interceptor Utilities, Ford Motor Company has prepared the following fact sheet to provide our customers with important information about CO, workplace safety and how to appropriately check for CO.

1. CO is measured in two ways: In the air, it is measured in parts per million (ppm) or in the blood, it is measured as the percentage of hemoglobin bound to CO (or carboxyhemoglobin [COHb]).
2. The U.S. Department of Labor Occupational Safety and Health Administration (OSHA) sets a standard for the Workplace of 50 ppm average over 8 hours.
3. Instantaneous peak readings showing CO levels in parts per million at a single point in time do not provide an accurate depiction of an individual's dose.
4. In general, noticeable symptoms of CO exposure (shortness of breath with moderate exertion or possible headache) among healthy adults occur after several hours breathing average CO levels of 100 ppm; more severe symptoms among health adults are generally associated with prolonged exposure to >100 ppm.
5. CO readings should only be performed with a scientifically calibrated detector, such as the RAE Systems ToxiRae PRO CO Monitor, Otis Tocsin OI-315 or Industrial Scientific Tango TX1.
6. CO monitor readings can be affected by interference from police radios, radar guns or exposure to in-car chemicals, such as vapors from cleaners, solvents, air fresheners and other chemicals that could cause false readings. Additionally, monitors should not be left in a parked vehicle in warm or cold weather.

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Michael A. Berardi
 Director
 Service Engineering Operations
 Ford Customer Service Division

Ford Motor Company
 P. O. Box 1904
 Dearborn, Michigan 48121

October 25, 2017

TO: All U.S. Ford and Lincoln Dealers

SUBJECT: **NEW VEHICLE DEMONSTRATION / DELIVERY HOLD – Customer Satisfaction Program 17B25 – Supplement #3**
 Certain 2013-2017 Model Year Police Interceptor Utility Vehicles
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REF : **Customer Satisfaction Program 17B25 – Supplement #2**
 Dated: September 21, 2017
Customer Satisfaction Program 17N03
 Dated: October 25, 2017

New! REASON FOR THIS SUPPLEMENT

- *Remove the option to add Non-Police Ford Explorer vehicles to this program. Customer Satisfaction Program 17N03 was launched on October 25, 2017 to support these vehicles.*

PROGRAM TERMS

This program will be in effect through September 30, 2018. There is no mileage limit for this program.

URGENCY / EXPIRATION DATE

This Customer Satisfaction Program has an expiration date of September 30, 2018, to encourage dealers and customers to have this service performed as soon as possible.

We recommend dealers utilize their FSA VIN Lists name and address (available by October 6, 2017) to contact customers with affected vehicles.

AFFECTED VEHICLES

Vehicle	Model Year	Assembly Plant	Build Dates
Police Interceptor Utility	2013-2017	Chicago	August 25, 2011 through Job Last 2017MY

Affected vehicles built up to October 6, 2017 are identified in OASIS and FSA VIN Lists. Additional vehicles will be periodically added to this program until production ends for the 2017 model year.

REASON FOR THIS PROGRAM

When an up-fitter installs customized emergency lighting, radios and other equipment, they may damage vehicle sealing systems and/or drill holes into the rear of the vehicle. This creates an opening where exhaust could enter the cabin if the sealing system is not properly repaired and holes are not properly sealed. In addition, this customer satisfaction program provides unique upgrades to Police Interceptor Utility vehicles to address customer concerns with carbon monoxide.

[SEE VIDEO & NEWS RELEASE: Unsealed Holes Contribute to Exhaust Concerns in Police Interceptor Utility](#)

SERVICE ACTION

[Click Here](#) to view a video demonstration of key inspection and repair procedures.

For Police Interceptor Utility vehicles equipped, or formerly equipped with police/aftermarket up-fitter modifications, dealers are to inspect the rear of the vehicle and repair damage to body seals, grommets and liftgate spoiler sealing systems, seal the liftgate interior trim panel, install new muffler tips, seal certain body plugs in the floor pan, reprogram the Climate Control (HVAC) module, and check the Powertrain Control Module (PCM) for diagnostic trouble code (DTC) P0420 and/or P0430 following the technical instructions.

For Police Interceptor Utility vehicles not equipped with police/aftermarket up-fitter modifications, dealers are to install new muffler tips, seal certain body plugs in the floor pan, reprogram the HVAC module, and check the PCM for DTC P0420 and/or P0430 following the technical instructions.

This service must be performed on all affected vehicles at no charge to the vehicle owner.

Aftermarket lighting and/or equipment mounted to the liftgate spoiler can compromise vehicle sealing. Ford can only ensure proper sealing of the spoiler when aftermarket lighting and/or equipment are removed and the spoiler is resealed.

Before removing aftermarket lighting and/or equipment from the spoiler, contact the customer to obtain their approval to conduct this part of the service. If a customer elects to keep aftermarket lighting and/or equipment on the spoiler, proceed with the following actions:

- Document on the repair order that the service to reseal the spoiler and remove the aftermarket lighting and/or equipment from the spoiler was declined
- Print and provide the customer with the Customer Information Form – Liftgate Spoiler – Aftermarket Lighting and/or Equipment (Attachment V)
- Complete all other steps of this field service action
- Release the vehicle to the customer

OWNER NOTIFICATION MAILING SCHEDULE

Owner letters are expected to be mailed the week of September 25, 2017. Dealers should repair any affected vehicles that arrive at their dealerships, whether or not the customer has received a letter.

ATTACHMENTS

Attachment I: Administrative Information
Attachment II: Labor Allowances and Parts Ordering Information
Attachment III: Technical Information
Attachment IV: Dealer Q & A
Attachment V: Customer Information Form – Liftgate Spoiler – Aftermarket Lighting and/or Equipment
Attachment VI: 6 Important Facts About Carbon Monoxide and Police Vehicles
Owner Notification Letter

QUESTIONS & ASSISTANCE

For questions and assistance, contact the Special Service Support Center (SSSC) via the SSSC Web Contact Site. The SSSC Web Contact Site can be accessed through the Professional Technician Society (PTS) website using the SSSC link listed at the bottom of the OASIS VIN report screen or listed under the SSSC tab.

Sincerely,



Michael A. Berardi

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OASIS ACTIVATION

OASIS was activated on July 28, 2017, for vehicles built up to July 19, 2017, and has been updated to include affected vehicles up to September 12, 2017. Additional 2017MY vehicles will be periodically added to this program until production ends for the model year.

FSA VIN LISTS ACTIVATION

FSA VIN Lists will be available through <https://web.fsavinlists.dealerconnection.com> on September 13, 2017. Owner names and addresses will be available by October 6, 2017.

NOTE: Your FSA VIN Lists may contain owner names and addresses obtained from motor vehicle registration records. The use of such motor vehicle registration data for any purpose other than in connection with this program is a violation of law in several states, provinces, and countries. Accordingly, you must limit the use of this listing to the follow-up necessary to complete this service action.

SOLD VEHICLES

- Owners of affected vehicles will be directed to dealers for repairs.
- Immediately contact any of your affected customers whose vehicles are not on your VIN list but are identified in OASIS. Give the customer a copy of the Owner Notification Letter (when available) and schedule a service date.
- Correct other affected vehicles identified in OASIS which are brought to your dealership.
- Dealers are to prioritize repairs of customer vehicles over repairs of new and used vehicle inventory.

STOCK VEHICLES

- Correct all affected units in your new vehicle inventory before delivery.
- Use OASIS to identify any affected vehicles in your used vehicle inventory.

TITLE BRANDED / SALVAGED VEHICLES

Affected title branded and salvaged vehicles are eligible for this service action.

ADDITIONAL REPAIR (LABOR TIME AND/OR PARTS)

Additional repairs identified as necessary to complete the FSA should be managed as follows:

- For vehicles within new vehicle bumper-to-bumper warranty coverage, follow existing warranty and policy guidelines for related damage claims. No SSSC approval is required for these vehicles:
 - Ford vehicles – 3 years or 36,000 miles
- For vehicles outside new vehicle bumper-to-bumper warranty coverage, submit an Approval Request to the SSSC Web Contact Site prior to completing the repair.

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OWNER REFUNDS

- Ford Motor Company is offering a refund for owner-paid repairs covered by this program if the repair was performed before the date of the Owner Notification Letter. This refund offer expires March 31, 2018.
- Refunds will only be provided for the cost associated with the inspection and repair of vehicles with exhaust odor and carbon monoxide complaints using TSB 16-0166 or 17-0044, and exhaust catalyst replacement for DTC P0420 and/or P0430.

RENTAL VEHICLES

Rental vehicles are not approved for this program.

CLAIMS PREPARATION AND SUBMISSION

- Enter claims using Direct Warranty Entry (DWE) or One Warranty Solution (OWS).
 - DWE: refer to ACESII manual for claims preparation and submission information.
 - OWS: when entering claims in DMS software, select claim type 31: Field Service Action. The FSA number 17B25 is the sub code.
- Additional labor and/or parts must be claimed as related damage on a separate repair line from the FSA.
- Submit refunds on a separate repair line.
 - Program Code: 17B25 - Misc. Expense: ADMIN
 - Misc. Expense: REFUND - Misc. Expense: 0.2 Hrs.
- Multiple refunds should be submitted on one repair line and the invoice details for each repair should be detailed in the comments section of the claim.
- Sublet repairs must be claimed using labor operations listed in this bulletin. Do not claim as Outside Labor (OSL). Refer to Warranty & Policy Manual for additional information.
- Provision for Locally Obtained Supplies: Includes automotive body seam sealer, anti-corrosion coating, Loctite 414 or 495, and High Temperature Paint.
 - Program Code: 17B25
 - Misc Expense: OTHER
 - Amount: Actual cost up to \$25.00
- PROGRAM TERMS: This program will be in effect through September 30, 2018. There is no mileage limit for this program.

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LABOR ALLOWANCES – All Vehicles (Use One)

Description	Labor Operation	Labor Time
In-stock/unsold/undelivered vehicle (Modified or Not Modified) <ul style="list-style-type: none"> • Install Liftgate Trim Panel Sealing Kit • Glue Liftgate Drains • Install Muffler Tips • Seal Certain Body Plugs in Floor Pan • Reprogram the HVAC module 	17B25B repairs before September 21, 2017	1.0 Hour
	17B25BB repairs on/after September 21, 2017	1.1 Hours
Customer/sold vehicle <ul style="list-style-type: none"> • Inspect for modifications • Install Liftgate Trim Panel Sealing Kit • Glue Liftgate Drain Valves • Install Muffler Tips • Seal Certain Body Plugs in Floor Pan • Reprogram the HVAC module • Check for DTCs 	17B25C repairs before September 21, 2017	1.1 Hours
	17B25CC repairs on/after September 21, 2017	1.2 Hours

LABOR ALLOWANCES – As Required

Description	Labor Operation	Labor Time
Seal grommets, body plugs and holes with body seam sealer and mastic patch as required	MT17B25	Up to 1.0 Hour
Remove liftgate spoiler and replace seals and fasteners	17B25D	0.4 Hours
Replace Air Extractor (one or both)	17B25E	1.0 Hours
Replace Exhaust Catalyst – 3.7L Right Hand	17B25F	1.5 Hours
Replace Exhaust Catalyst – 3.7L Left Hand	17B25G	1.0 Hours
Replace Exhaust Catalysts – 3.7L Both	17B25H	2.1 Hours
Replace Exhaust Catalyst – 3.5L Right	17B25J	0.7 Hours
Replace Exhaust Catalyst – 3.5L Left Hand	17B25K	0.7 Hours
Replace Exhaust Catalysts – 3.5L Both	17B25L	1.2 Hours

Use in combination with 17B25C or 17B25CC only

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PARTS REQUIREMENTS / ORDERING INFORMATION

Part Number	Description	Order Quantity	Claim Quantity
BB5Z-7841617-A	Liftgate Trim Panel Sealing Kit	1	1
DB5Z-5202-A	Muffler Tips – 3.7L Engine (All – 95% of program population)	2	2
FB5Z-5202-A	Muffler Tips – 3.5L GTDI Engine (2016-2017MY – 4% of program population)	2	2
FB5Z-5202-B	Muffler Tips – 3.5L GTDI Engine (2013-2015MY – 1% of program population)	2	2
CK4Z-13014-B	Foil-Backed Mastic Patch (for underbody plugs)	2	2
TA-19-C	Motorcraft Instant Gel Adhesive (or equivalent, including but not limited to Loctite 414 or 495)	As Required	MISC. OTHER
TA-2-B	Motorcraft Seam Sealer (or equivalent, including but not limited to Lord Fusor 802HD, 804HD, 805HD or 806HD and 3M 08367 or 08405)		
PM-13-A	Motorcraft Anti-Corrosion Coating (or equivalent)		
Obtain Locally	High-Temperature Paint		
4M8Z-54280B62-A	Liftgate Drain Valve	As Required	
4L3Z-18203A16-AA	Foil-Backed Mastic Patch (general sealing repairs)	As Required	
BB5Z-61280B62-B	Air Extractor	As Required	
- 78404A06 -	Liftgate Weather Seal (search by application)	As Required	
Refer to Catalog	Exhaust Catalyst (search by application)	As Required	
Refer to Catalog	Exhaust Fasteners and Gaskets (search by application)	As Required	
HB5Z-78442K03-A	Liftgate Spoiler Sealing Kit	As Required	

The DOR/COR number for this program is 51095.

Order your parts requirements through normal order processing channels. To guarantee the shortest delivery time, an emergency order for parts must be placed.

DEALER PRICE

For latest prices, refer to DOES II.

PARTS RETENTION AND RETURN

Follow the provisions of the Warranty and Policy Manual, Section 1 - WARRANTY PARTS RETENTION AND RETURN POLICIES.

EXCESS STOCK RETURN

Excess stock returned for credit must have been purchased from Ford Customer Service Division in accordance with Policy Procedure Bulletin 4000.

CERTAIN 2013-2017 MODEL YEAR POLICE INTERCEPTOR UTILITY VEHICLES — EXHAUST ODOR AND CARBON MONOXIDE COMPLAINTS


OVERVIEW

When an up-fitter installs customized emergency lighting, radios and other equipment, they may damage vehicle sealing systems and/or drill holes into the rear of the vehicle. This creates an opening where exhaust could enter the cabin if the sealing system is not properly repaired and holes are not properly sealed. This procedure provides information to identify and repair vehicle-sealing concerns that have been caused by these installations. Be aware that this technical information does not capture all possible sealing concerns caused by non-Ford equipment installations due to the variability that exists with after market equipment and installation practices. Dealer technicians should thoroughly inspect vehicles and correct all potential leak paths caused by after market up-fitter equipment using robust sealing methods.

Before removing aftermarket lighting and/or equipment from the liftgate spoiler, verify that Service Department Management obtained customer approval to conduct that part of the service. If the customer elected to keep aftermarket lighting and/or equipment on the spoiler, proceed with the following actions:

- Complete all other steps of this field service action EXCEPT the Liftgate Spoiler Sealing procedure.
- Document on the repair order that the service to reseal the spoiler and remove the aftermarket lighting and/or equipment from the spoiler was declined.
- Print and provide the customer with the Customer Information Form – Liftgate Spoiler – Aftermarket Lighting and/or Equipment (Attachment V).
- Release the vehicle to the customer.

SERVICE PROCEDURE

NOTE: To view a video demonstration of key inspection and repair procedures, click the video icon. 

1. Inspect the rear half of the vehicle for police or aftermarket up-fitter equipment such as: interior or exterior lighting, radio/audio/video equipment, or up-fitter wiring that crosses from the interior to the exterior of the vehicle (inspect liftgate opening).

NOTE: Roof-mounted antennas, lights and other equipment that has been properly sealed for water intrusion will not allow exhaust odor to enter the vehicle. If the vehicle has roof-mounted equipment present, and there is no evidence of water leaks in the vehicle, no further inspection or repairs are necessary for that equipment.

NOTE: It is not necessary to inspect police or aftermarket up-fitter equipment installed in the front half of the vehicle.

2. Has the vehicle been modified with aftermarket equipment as described?

No - Begin procedure at **Liftgate Trim Panel Sealing on Page 12.**

Yes - Proceed to the Modified Vehicle Inspection and Sealing.



Modified Vehicle Inspection and Sealing

Air Extractor Replacement Recommended Tool List:

1/4" Drive Ratchet (Power Tool & Hand Tool)
1/4" Drive Torque Wrench
1/4" Drive Extension (6 in 152 mm)
1/4" Drive 5.5mm Shallow Socket
1/4" Drive 8mm Shallow Socket
Trim Tool
Pocket Screwdriver
Phillips Screwdriver

1. With the vehicle in NEUTRAL, position it on a hoist. Please follow the Workshop Manual (WSM) procedures in Section 100-02.
2. Inspect the rear underbody for damaged or missing body plugs, punctured/damaged floor pan sheet metal and baffle plates, damaged wiring harness grommets, aftermarket fasteners, and pass throughs (holes) created for aftermarket wiring/equipment. See Figures 1, 2a and 2b.
 - Seal all aftermarket wiring and equipment pass throughs using Motorcraft® TA-2 seam sealer or equivalent, and Foil-Backed Mastic Patch as needed.

NOTE: Do not use silicones, RTVs or caulks during this repair.

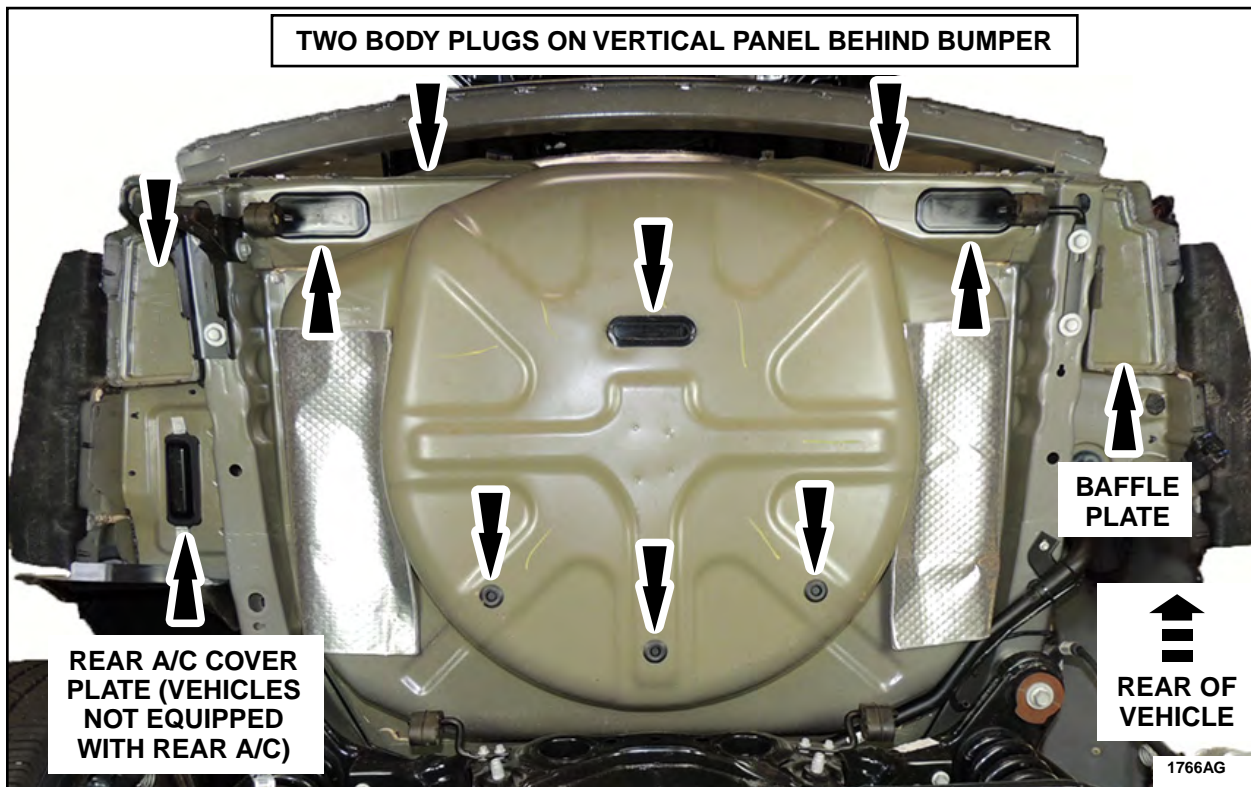


FIGURE 1





FIGURE 2a



FIGURE 2b

3. Remove the three push-pins securing the LH and RH rear wheelhouse insulators, and remove the insulators. See Figure 3.

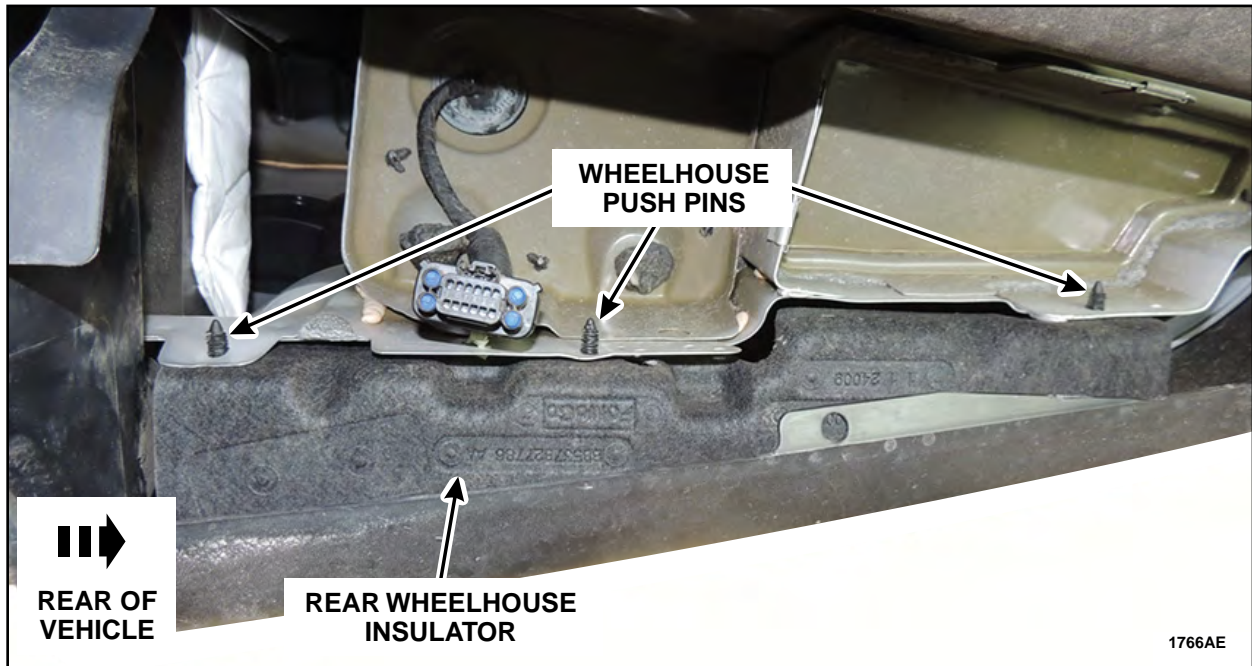


FIGURE 3



- Using a telescoping mirror and flashlight, inspect the 4 body plugs and air extractor through the wheelhouse openings on each side of the vehicle to determine if aftermarket wiring has been routed through these components. Reroute aftermarket wiring as needed. See Figures 4a and 4b.
 - Replace body plugs or air extractors if any damage is present. Rear bumper cover removal is required to replace the air extractor. Please follow the WSM procedures in Section 501-19.

NOTE: Bumper removed for clarity.

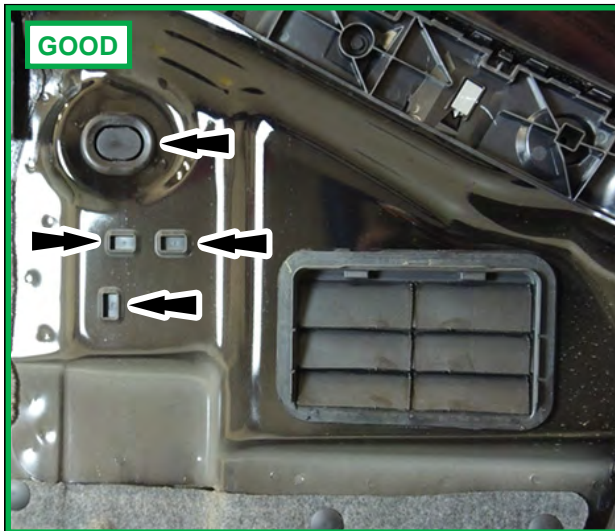


FIGURE 4a

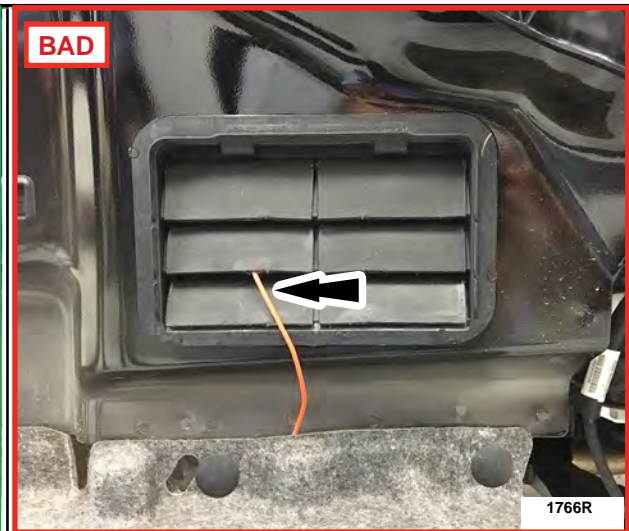


FIGURE 4b

- Reinstall the wheelhouse insulators. The wheelhouse push pins can be reinstalled by removing the lower inner fender well fasteners to gain access to the fasteners. See Figure 5.

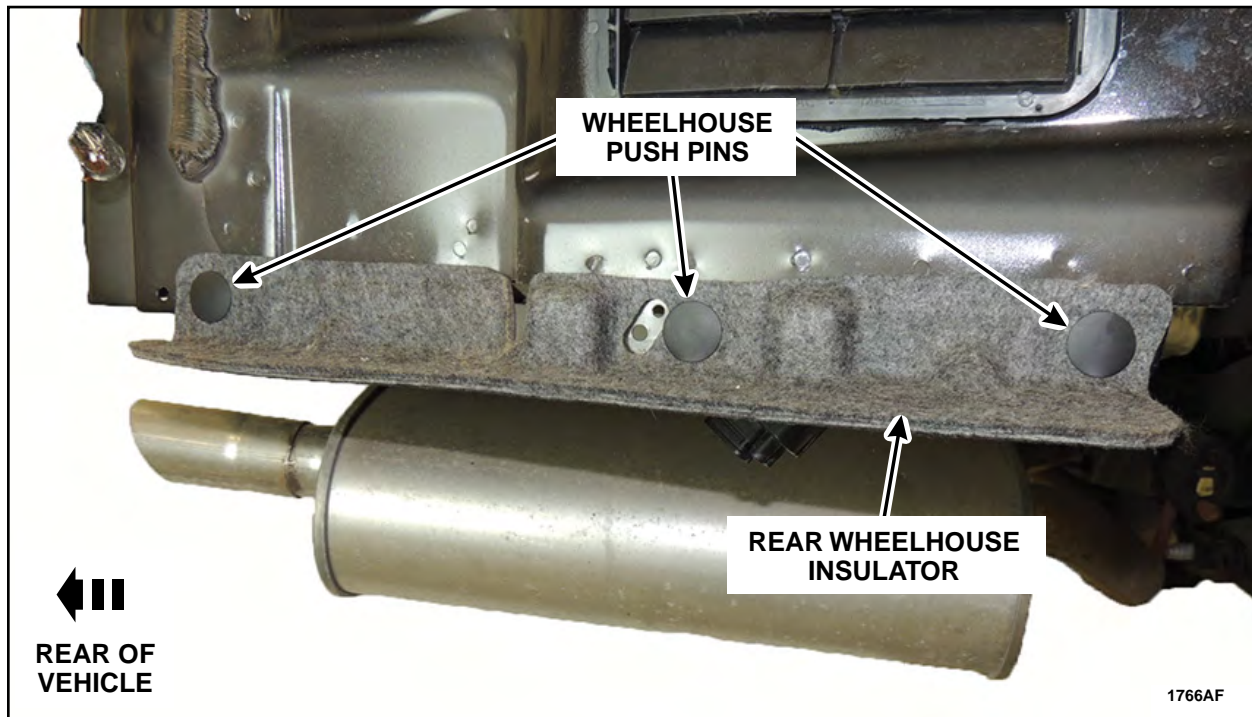


FIGURE 5



6. Remove the LH and RH rear tail lamp assemblies. Please follow the WSM procedures in Section 417-01.
7. Inspect the sheet metal, wiring harness grommets and factory equipped pass throughs for damage or holes created when installing aftermarket wiring and equipment. See Figure 6a. Seal all holes in the sheet metal and wiring harness grommets with Motorcraft® TA-2 seam sealer or equivalent. See Figure 6b.

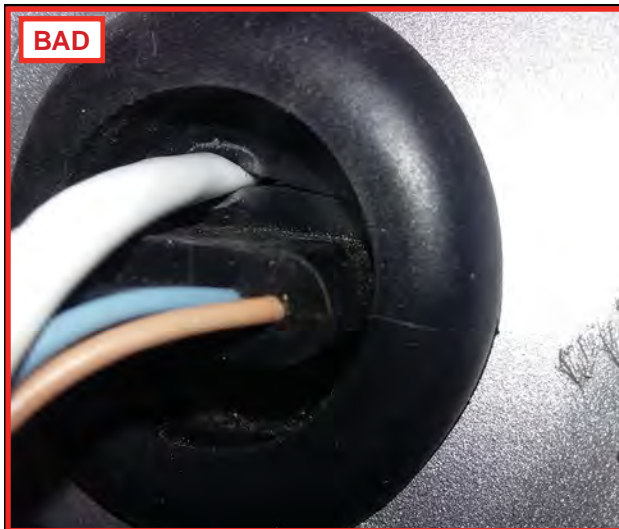


FIGURE 6a

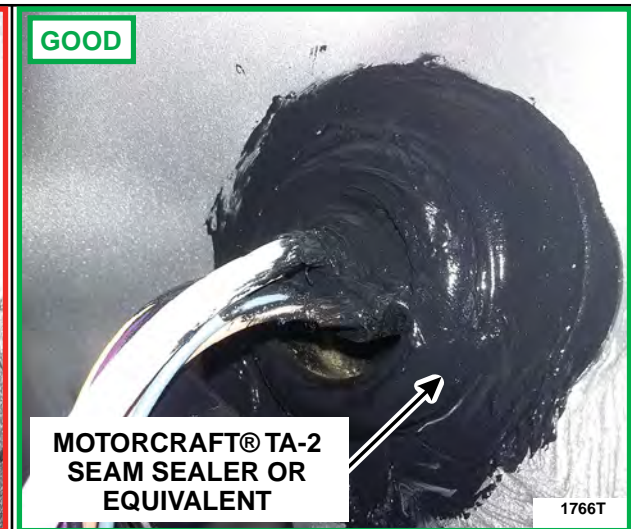


FIGURE 6b

8. For vehicles equipped with aftermarket lights on the D-pillars, seal all holes in the sheet metal and wiring harness grommets used as wiring pass throughs with Motorcraft® TA-2 seam sealer or equivalent. See Figures 7a and 7b.

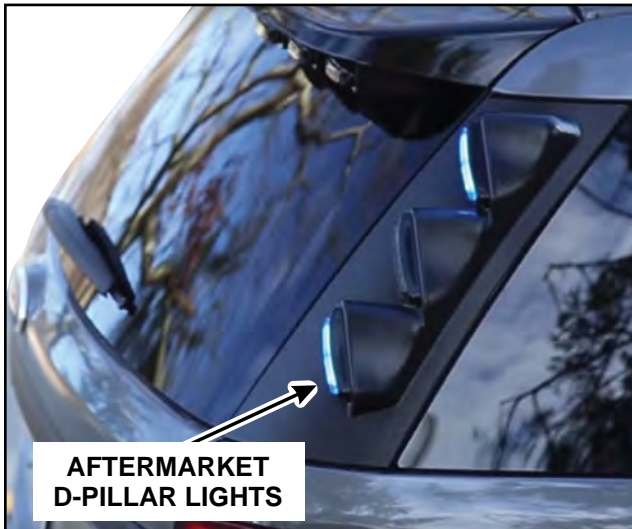


FIGURE 7a

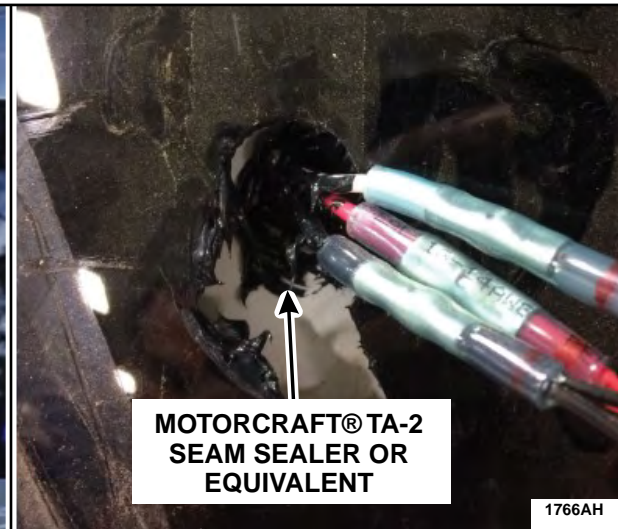


FIGURE 7b



9. Inspect the liftgate weather seal for damage and proper fitment to the vehicle. Replace the liftgate weatherseal if required. See Figure 8.



FIGURE 8

10. Reinstall the LH and RH rear lamp assemblies. Please follow the WSM procedures in Section 417-01.

NOTE: When installing the rear lamp assemblies, ensure the liftgate weather seal is not disturbed and remains in the correct position.

Liftgate Spoiler Inspection

NOTE: Aftermarket lighting and/or equipment mounted to the liftgate spoiler can compromise vehicle sealing and create a leak path for exhaust to enter the vehicle. Ford recommends removal of any aftermarket lighting and/or equipment mounted to the spoiler to prevent a potential path for exhaust to enter the vehicle. Any removed equipment must be returned to the customer.

NOTE: If the customer declines to allow removal of aftermarket lighting and/or equipment from the liftgate spoiler, have the customer sign a copy of the Customer Release Form – Liftgate Spoiler Aftermarket Lighting and/or Equipment (See Attachment V). Retain the signed document in your service records.

NOTE: Appearance may vary by lighting manufacturer.



IMPORTANT: Before removing aftermarket lighting and/or equipment from the liftgate spoiler, verify that the Service Department Management obtained customer approval to conduct this part of the service.

1. Inspect the rear spoiler for any of the following:

- a. Is there aftermarket lighting or other equipment mounted to the spoiler? See Figure 9.
- b. Has the spoiler or vehicle been painted?
NOTE: All Police Interceptor Utility Spoilers are painted black from the factory.
- c. Is the spoiler damaged or have any holes drilled through it?
- d. Is any aftermarket wiring routed to the spoiler?

Yes – Proceed to the Liftgate Spoiler Sealing Procedure.

No – Proceed to the Liftgate Trim Panel Sealing Procedure.



FIGURE 9



Liftgate Spoiler Sealing

Recommended Tool List:

1/4" Drive Ratchet (Power Tool & Hand Tool)
1/4" Drive 6 in (152 mm) Extension
1/4" Drive 7mm Shallow Socket
1/4" Drive Torque Wrench
3/8" Drive Ratchet (Power Tool & Hand Tool)
3/8" Drive 6 in (152 mm) Extension
3/8" Drive 13mm Twelve Point Socket
3/8" Drive Torque Wrench
Flat Faced Sheet Metal Hammer
Applicator Brush (Anti Corrosion Application)

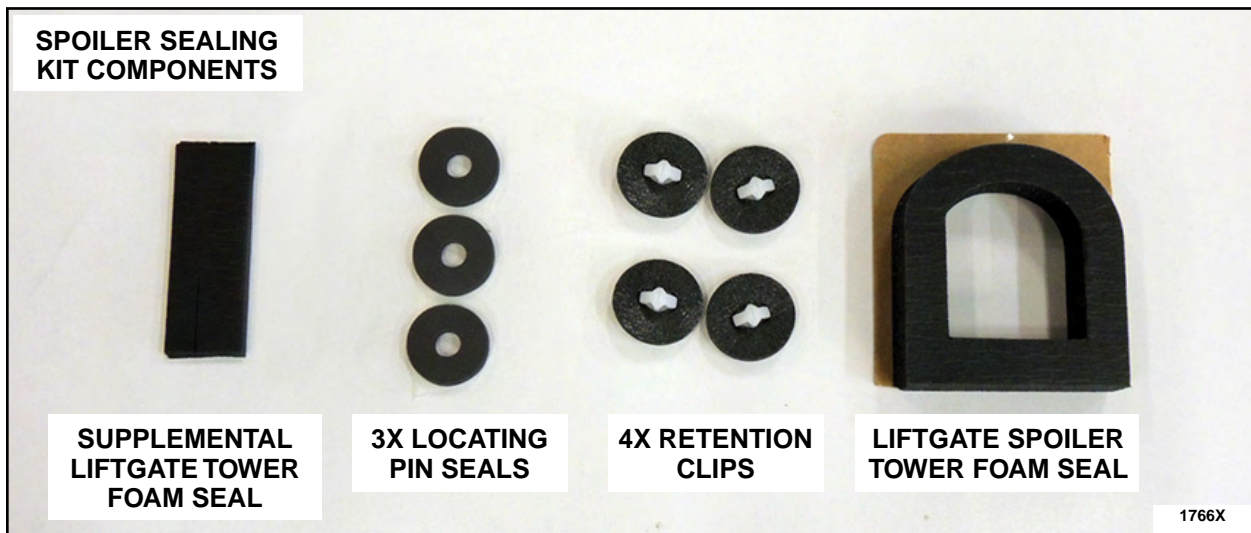


FIGURE 10



1. Remove the liftgate spoiler. Please follow the WSM procedures in Section 501-08.

NOTE: Remove and **do not** reinstall any aftermarket lighting or other accessories mounted to the liftgate spoiler.

2. Inspect for any aftermarket wiring pass throughs/holes that could affect the sealing ability of the spoiler. See Figures 11a and 11b.

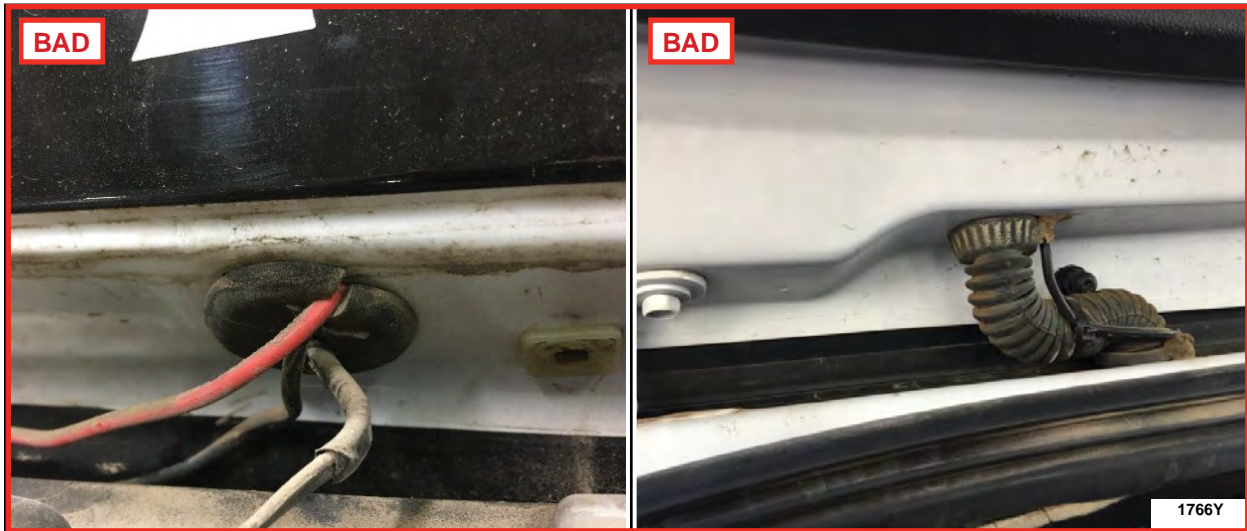


FIGURE 11a

FIGURE 11b

3. Seal any leak paths created by the aftermarket wiring pass throughs/holes in the spoiler area with Motorcraft® TA-2 seam sealer or equivalent.

4. Remove the liftgate spoiler tower foam seal. See Figure 12.

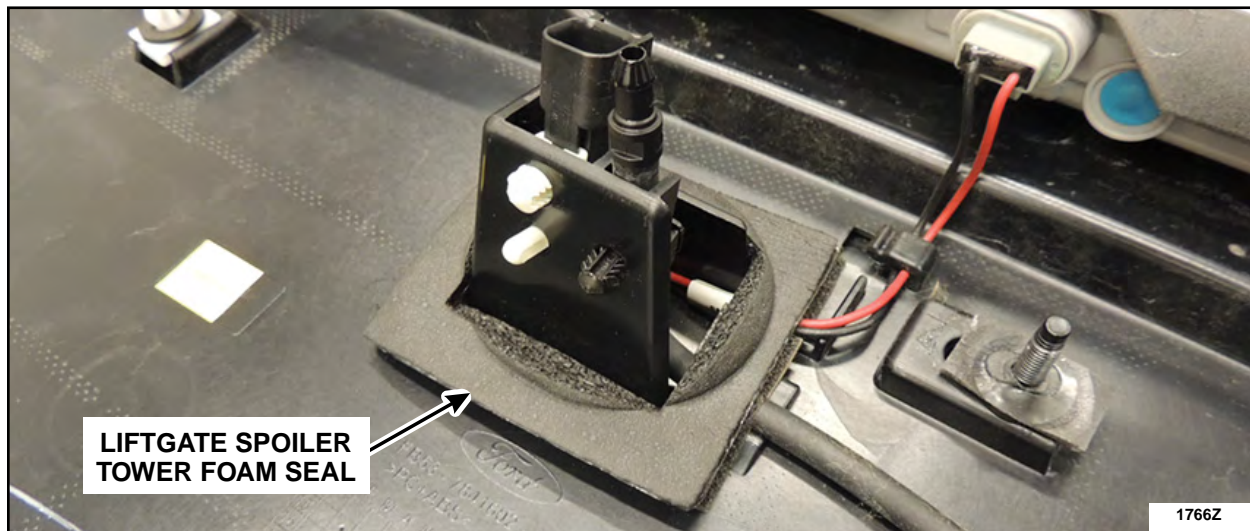


FIGURE 12



5. Install a *new* supplemental liftgate spoiler tower seal underneath the wiring and washer line. Make sure the slot in the seal is aligned with the raised channel on the spoiler. See Figure 13.

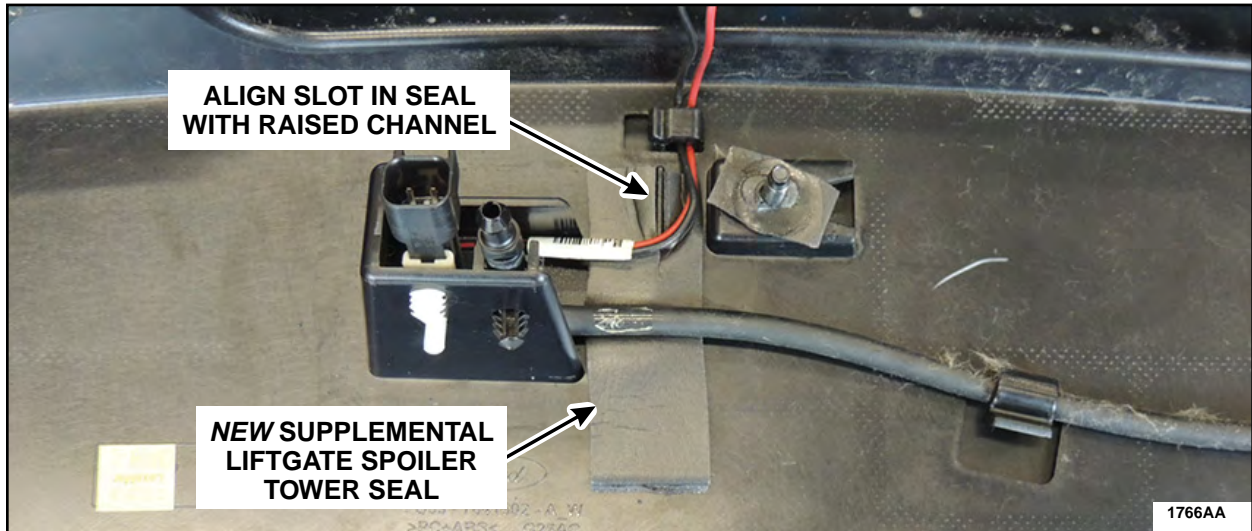


FIGURE 13

6. Install a *new* liftgate spoiler tower seal. The flat edge of the seal must be aligned with the raised channel on the spoiler. See Figures 14a and 14b.

NOTE: Make sure the wiring and washer line are properly routed under the seal.

NOTE: Make sure the tower seal is installed as flat as possible, using even pressure around the perimeter to ensure a smooth wrinkle free seal.

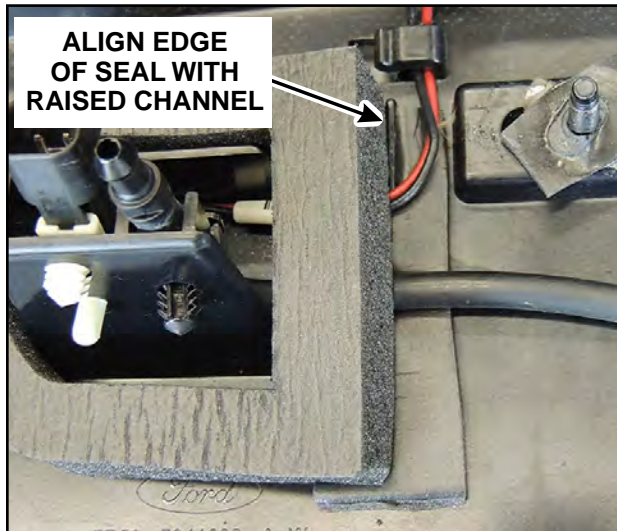


FIGURE 14a



FIGURE 14b



7. Install four *new* retention clips and three locating pin seals. See Figure 15.

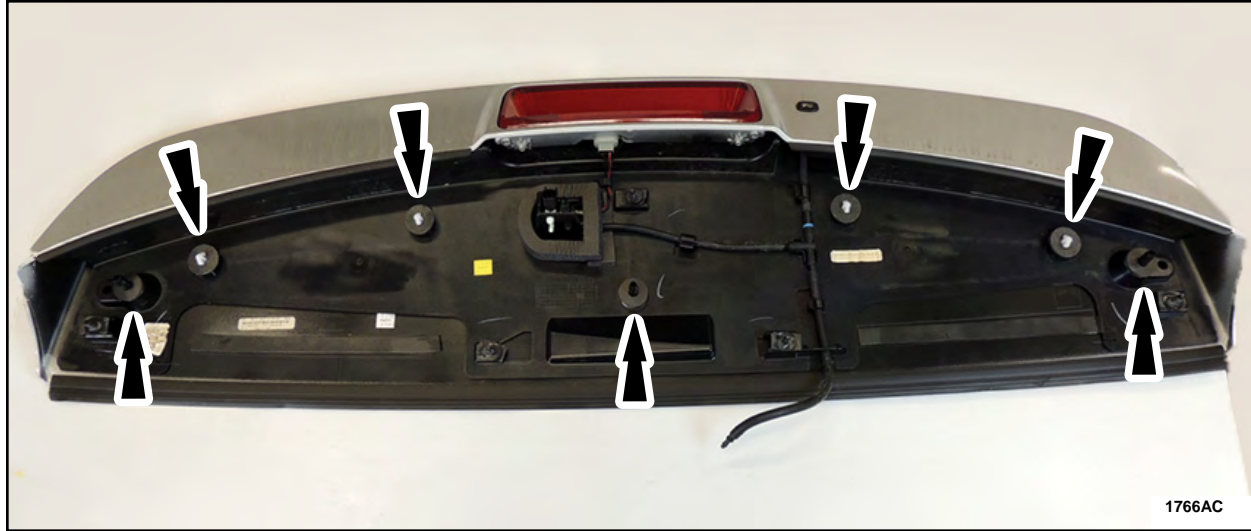


FIGURE 15

8. Using a flat faced hammer, carefully straighten any deformed spoiler retaining clip mounting holes and apply Motorcraft® PM13A sealer. See Figure 16.

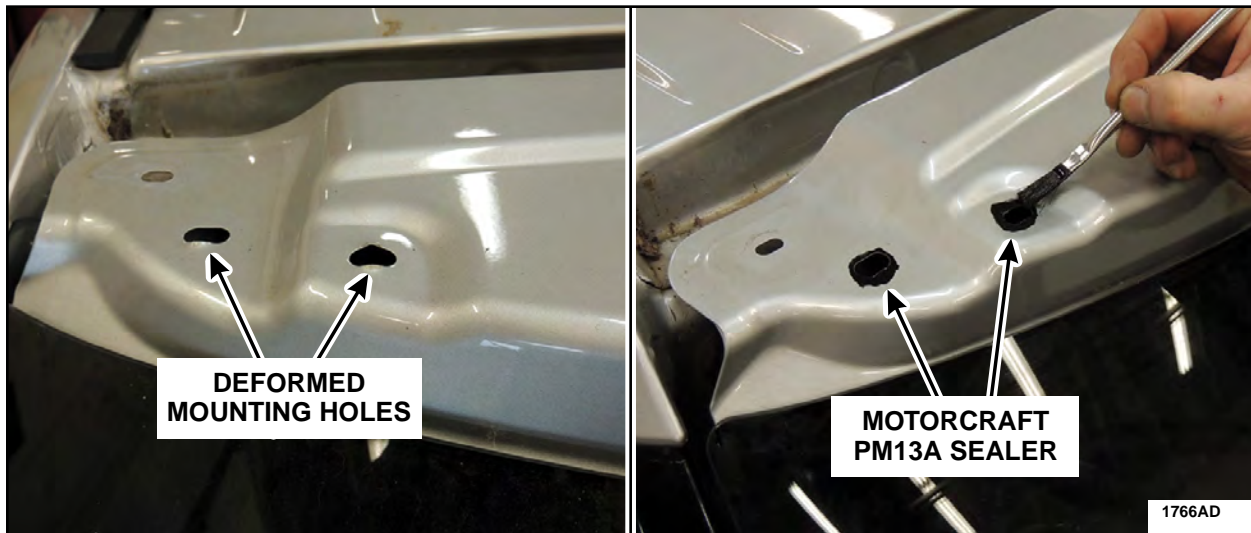


FIGURE 16

9. Leaving the liftgate trim panel, aftermarket light bar, and other accessories removed, install the liftgate spoiler. Please follow the WSM procedures in Section 501-08. Proceed to the Liftgate Trim Panel Sealing Procedure.



Liftgate Trim Panel Sealing

Recommended Tool List:

1/4" Drive Ratchet (Power Tool & Hand Tool)
1/4" Drive 6 in (152 mm) Extension
1/4" Drive 8mm Shallow Socket
Trim Tool
Pencil

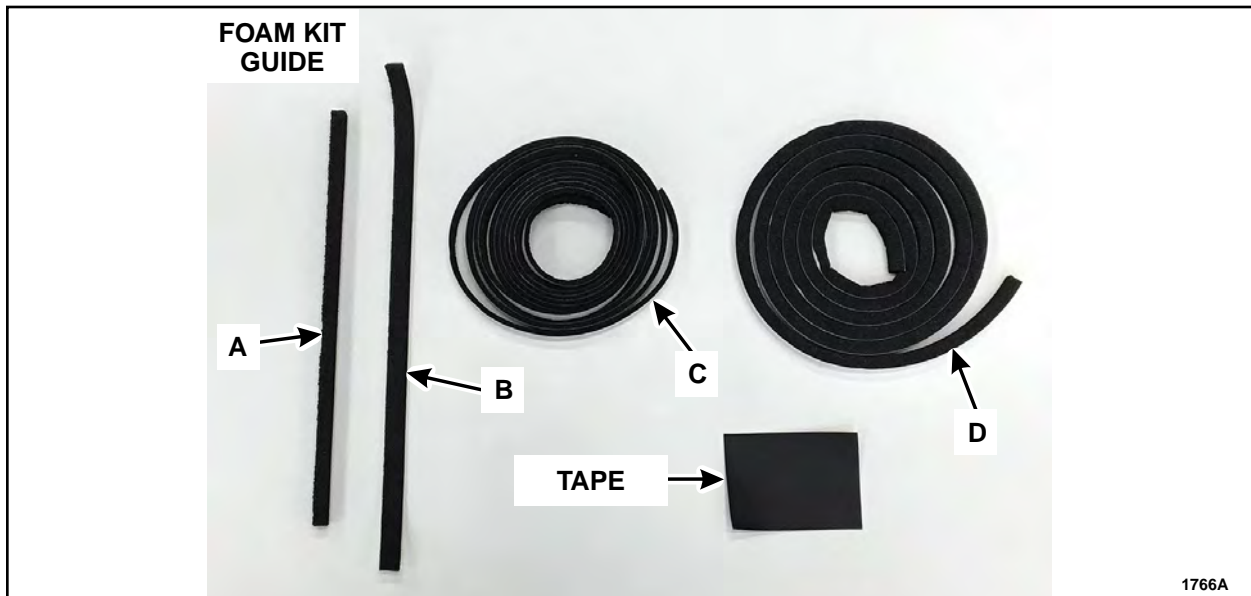


FIGURE 17

1. Using isopropyl alcohol and a clean cloth, clean the liftgate glass along the edge of the liftgate interior trim panel.
2. Use a pencil on the rear glass to trace along the edge of the liftgate trim panel. This pencil line will be used in Step 10.
3. Remove the liftgate trim panel. Please follow the WSM procedures in Section 501-05.



4. Inspect the liftgate trim panel clips for any damage to the clips or clip mounting towers. Replace any clips that are found to be damaged or deformed. If a clip mounting tower is found to be damaged, replace the trim panel.
5. Using isopropyl alcohol and a clean cloth, clean the liftgate trim panel where foam A and B will be installed. See Figure 18.
6. Install foam A and B on the liftgate trim panel. See Figure 18.

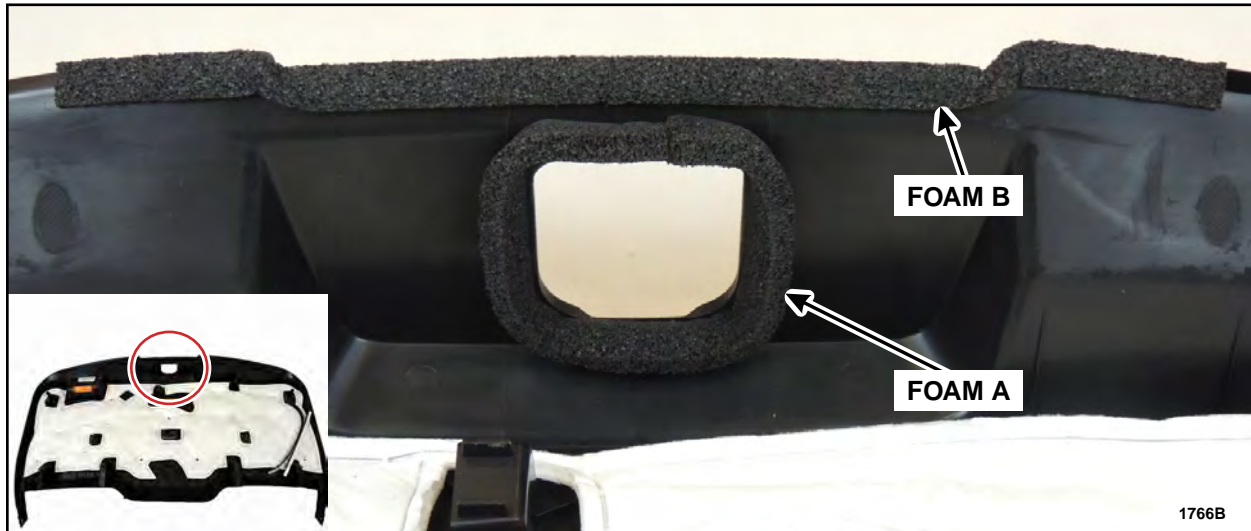


FIGURE 18

7. Using isopropyl alcohol and a clean cloth, clean the area around the liftgate latch. Install the tape pieces around three (3) sides of the liftgate latch. See Figure 19.

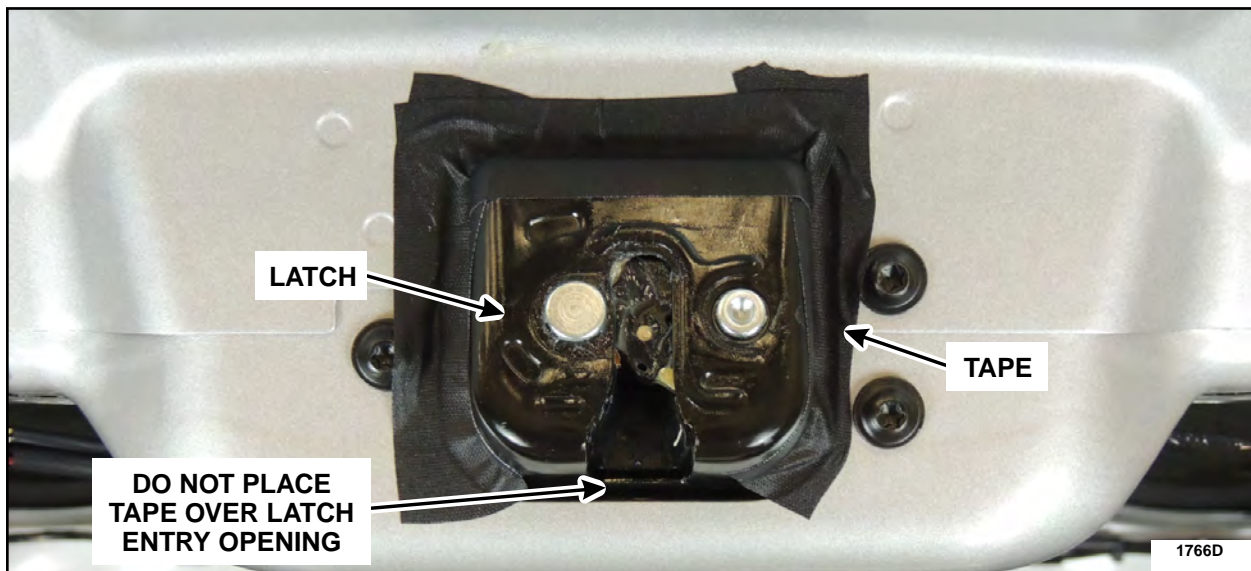


FIGURE 19



8. Using isopropyl alcohol and a clean cloth, clean the liftgate sheet metal surface in the area highlighted. See Figure 20.



FIGURE 20

9. Install foam piece C. The foam seal should be placed against the outer edge lip of the sheet metal to liftgate trim panel surface area. See Figures 21a and 21b

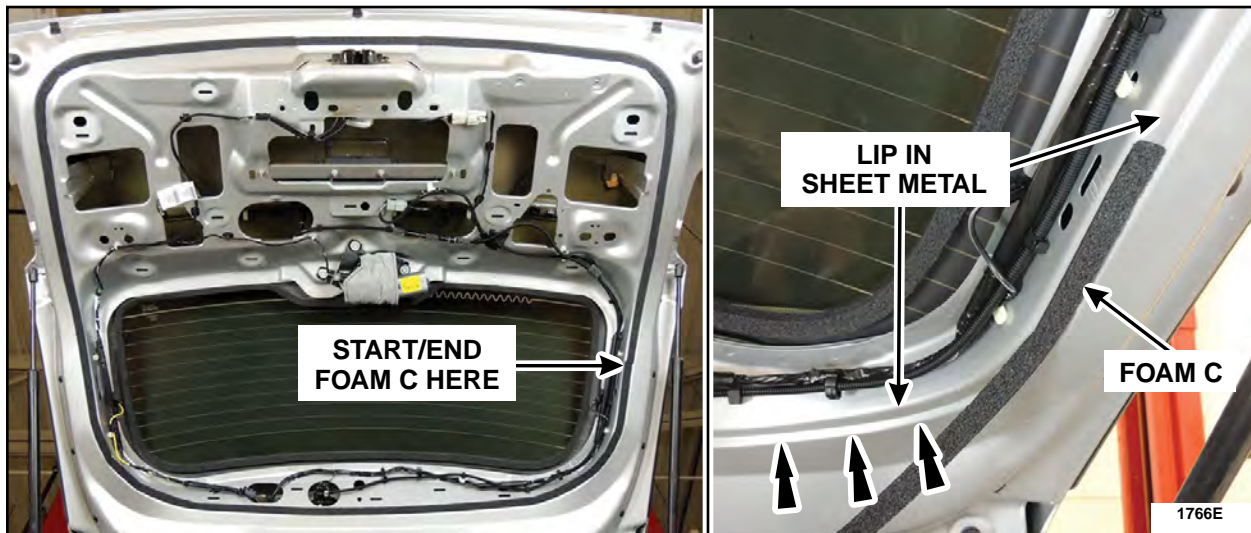


FIGURE 21a

FIGURE 21b



10. Install foam piece D. See Figures 22 and 23.

- The foam should be centered over the pencil line from Step 2 to properly contact the liftgate trim panel.
- The top and sides of the foam seal must rest on the black silkscreen portion of the liftgate glass with the black dots still visible. See Figures 22 and 23.
- The bottom of the foam seal should cover up the black silkscreen dots on the liftgate glass. See Figures 22 and 23.

NOTE: There will be a gap between the foam seal and the top and sides of the liftgate body when foam D is installed properly.

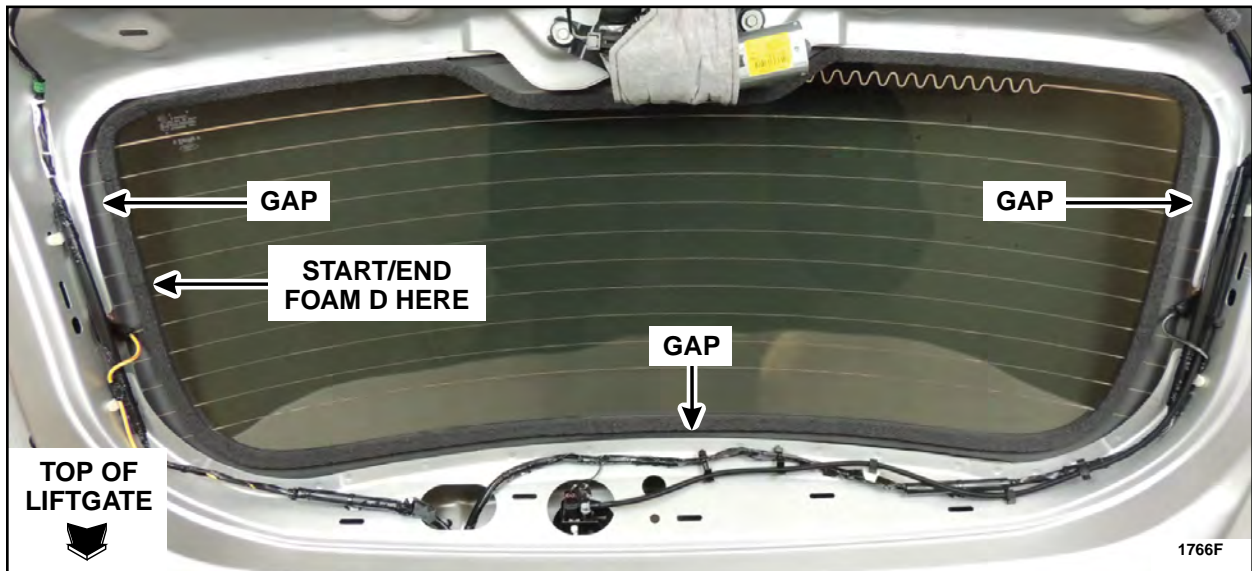


FIGURE 22

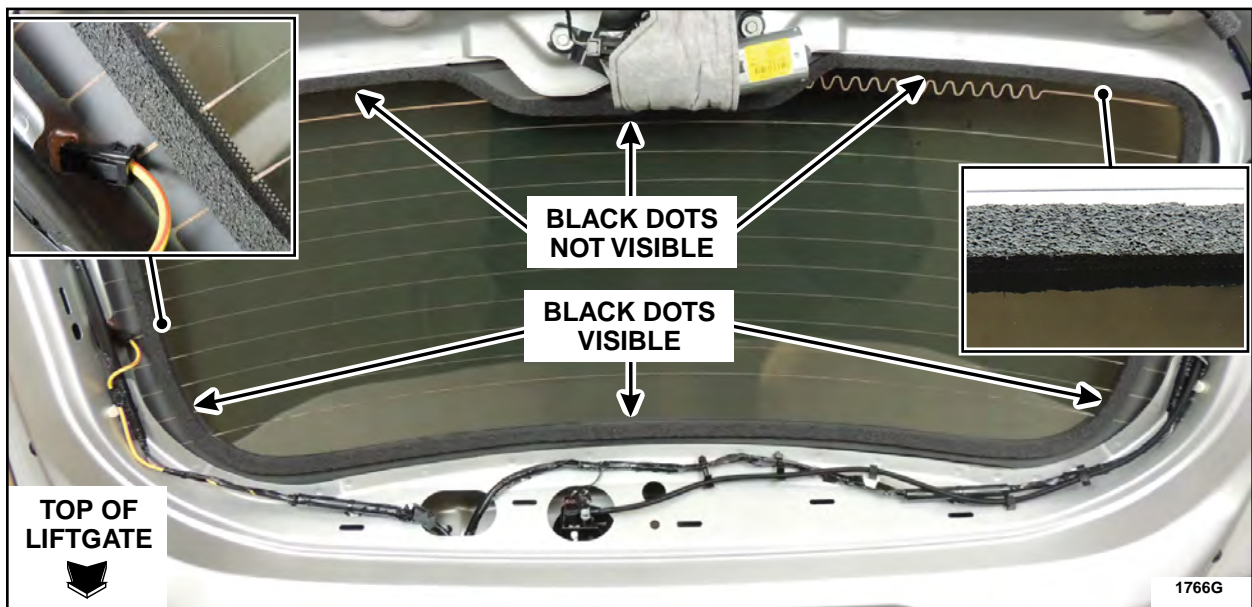


FIGURE 23



11. Inspect the liftgate trim panel for lights, pass throughs/holes and/or aftermarket equipment that could compromise the seal of the liftgate trim panel. Seal any breaches of the liftgate trim panel using mastic patch, left over foam tape, Dow Corning® 7091 Adhesive/Sealant, or other robust sealing methods.
12. Ensure the interior luggage compartment release access panel is properly installed in the lower liftgate trim panel. See Figure 24.



FIGURE 24

13. Install the liftgate trim panel. Please follow the WSM procedures in Section 501-05. See Figures 25a and 25b.

NOTE: The clips where the upper and lower liftgate trim panels are joined are easily damaged on installation. Use care when installing the upper liftgate trim panel.



FIGURE 25a

FIGURE 25b



Liftgate Drain Valve Inspection

1. With the liftgate open, remove all liftgate drain valves. 2013-2015 model year vehicles are equipped with two valves, 2016-2017 model year vehicles are equipped with three valves. See Figure 26.

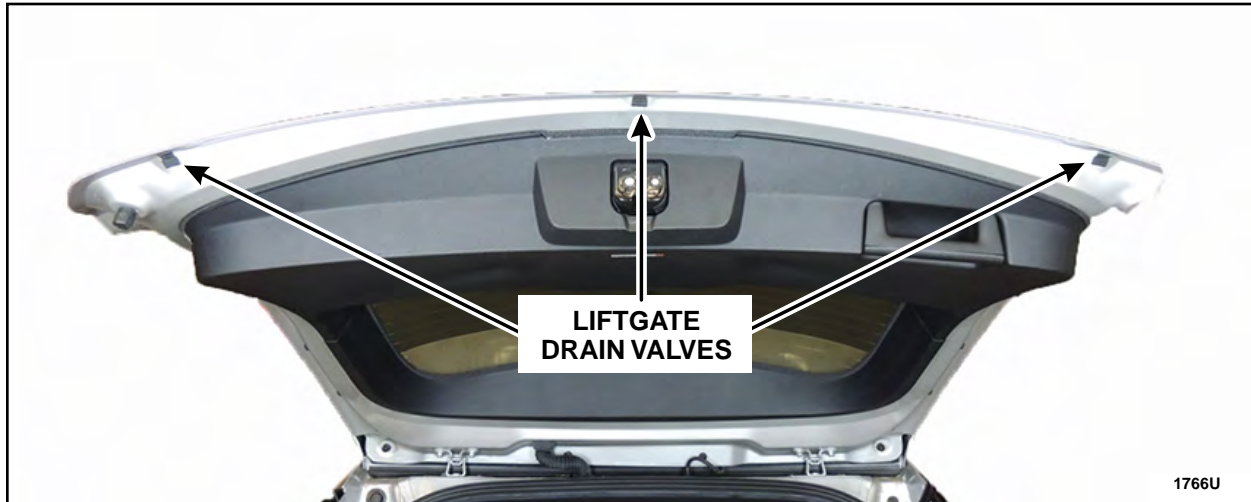


FIGURE 26

2. Clean the liftgate drain valves and the liftgate where the drains are fitted using isopropyl alcohol. Replace all drain valves that are damaged or missing.
3. Apply a drop of Motorcraft® Instant Gel Adhesive TA-19-C or equivalent on each side of the liftgate drain valve attaching clip. Install the liftgate drain valves and hold the part in place for the period of time listed in the instructions on the package to allow the adhesive time to set. See Figure 27.

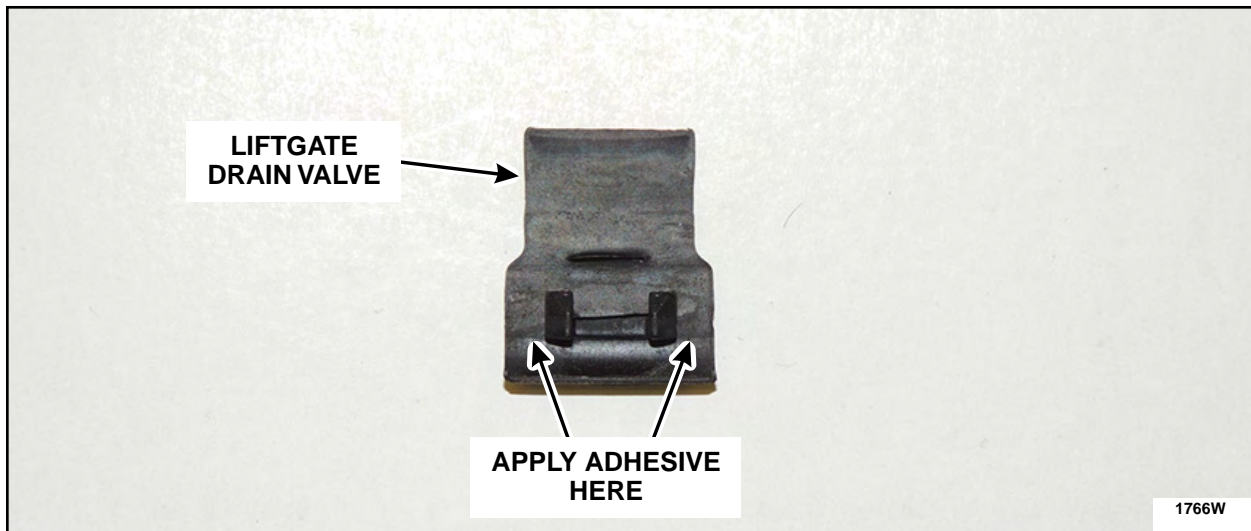


FIGURE 27



Exhaust Tip Replacement

NOTE: The following procedure modifies the appearance of the vehicle by replacing the straight facing exhaust tips with downward facing exhaust tips. See Figure 28.

Recommended Tool List:

Die Grinder
Abrasive Disc
Tape Measure
Level
Rubber Gloves
Welder



FIGURE 28



1. Using a pneumatic handheld grinder and an abrasive disc, remove the exhaust tip welds on both sides and remove both exhaust tips. See Figures 29a and 29b.



FIGURE 29a



FIGURE 29b

2. Remove the remaining weld material on the mufflers with an abrasive disc until there is a smooth surface. See Figure 30.



FIGURE 30



3. Install the *new* exhaust tips. Use a tape measure or ruler to position the exhaust tip prior to welding. See Figure 31.

- 2013-2015 vehicles with 3.5L GTDI engine 7 5/8 in (193 mm).
- 2016-2017 vehicles with 3.5L GTDI engine 8 1/16 in (206 mm).
- All vehicles with 3.7L engine 6 7/8 in (174 mm).

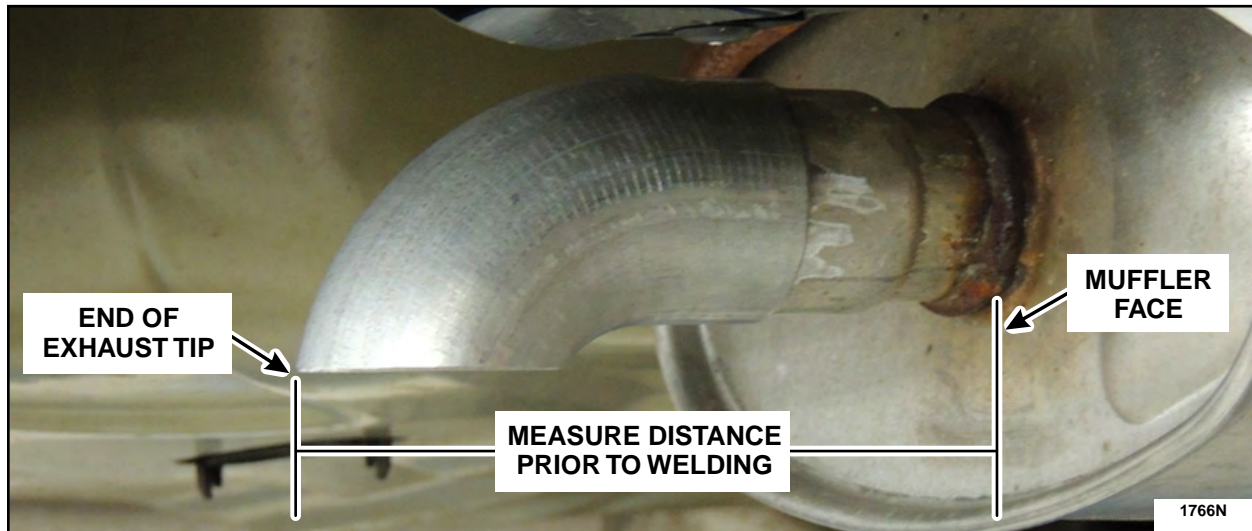


FIGURE 31

4. Level the exhaust tips and clamp in position as required. See Figure 32.



FIGURE 32



5. Apply 1 in (25 mm) long weld beads along both sides of each exhaust tip using 308L or 409SS MIG welding wire. See Figure 33.

NOTE: If tips are welded using wire other than 308L or 409SS MIG welding wire, the welds must be protected from corrosion with two coats of high-temperature exterior paint rated at 500°F (260°C) or higher.

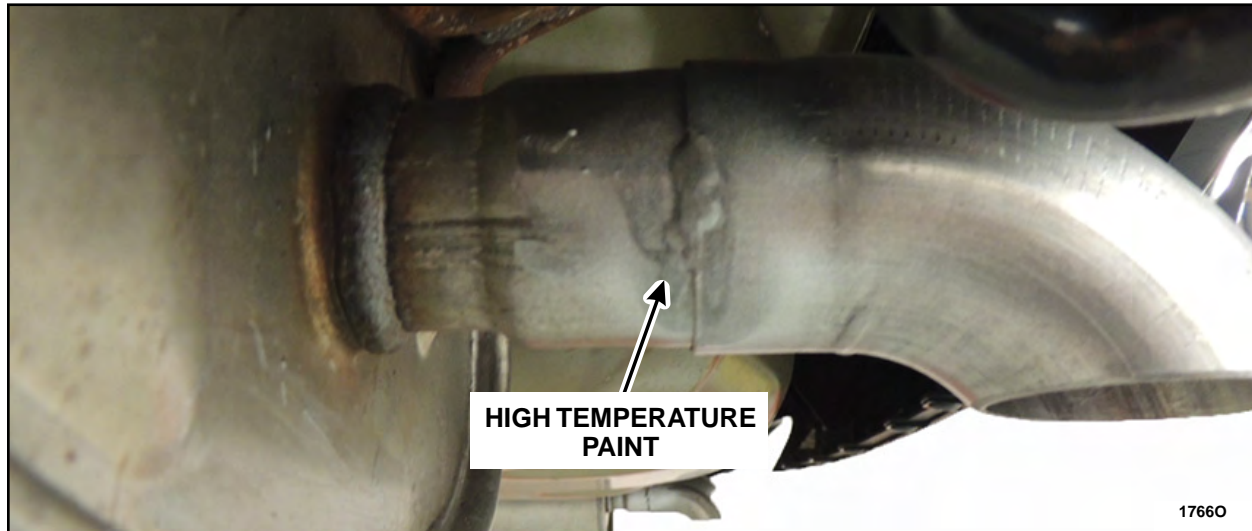


FIGURE 33

6. Clean the body plugs and surrounding sheet metal, then apply the mastic patches to the underbody plugs as shown in Figure 34.

NOTE: Make sure each patch completely covers the body plug.

NOTE: Apply firm pressure when applying the mastic patch to the underbody plugs and surrounding sheet metal to ensure proper adhesion.

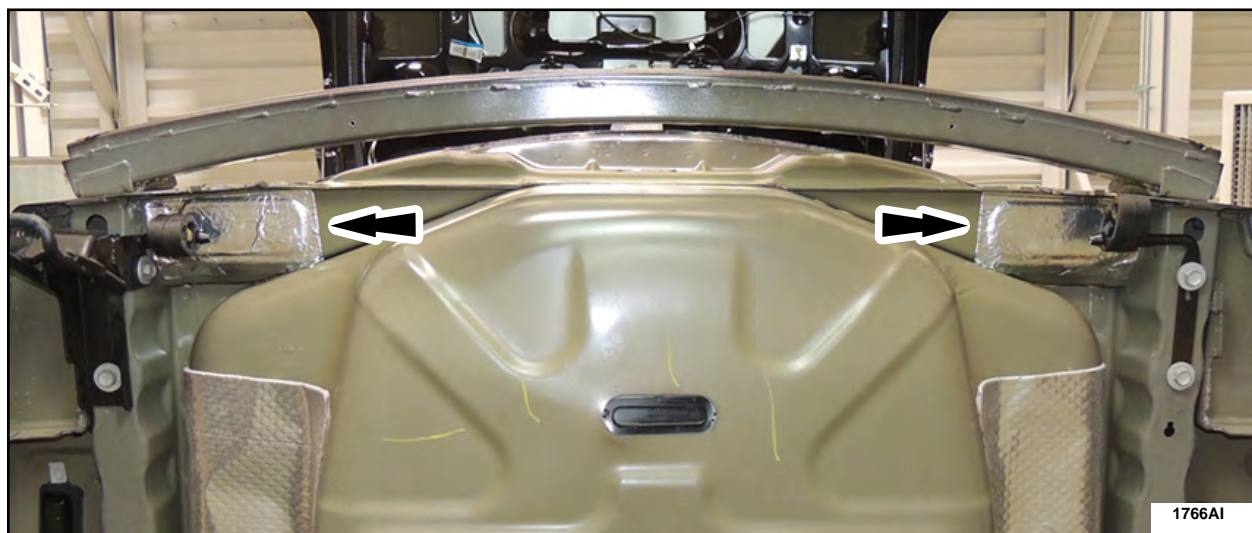


FIGURE 34



Check For Catalyst Efficiency DTCs

Recommended Tool List (3.5L GTDI Engines):

3/8" Drive Impact Gun
3/8" Drive Ratchet
3/8" Drive 10mm Impact Socket
3/8" Drive 15mm Deep Impact Socket
3/8" Drive Impact Universal Swivel Joint
3/8" Drive 3 in (76 mm) & 11 in (279 mm) Impact Extensions
3/8" Drive Torque Wrench
1/2" Drive Impact Gun (RH Converter Only)
1/2" Drive 19mm Impact Socket (RH Converter Only)
Stud Remover / Installer
Trim Tool
Exhaust Gas Oxygen Sensor Socket 303-476 (LH Converter Only)

Recommended Tool List (3.7L TiVCT Engines):

1/4" Drive Ratchet (Power Tool)
1/4" Drive Flex Head Ratchet
1/4" Drive Shallow 10mm Socket
1/4" Drive 12 in (305 mm) Extension
1/4" Drive Torque Wrench
3/8" Drive Impact Gun
3/8" Drive Ratchet
3/8" Drive 13mm Deep Swivel Impact Socket
3/8" Drive 15mm Deep Swivel Impact Socket
3/8" Drive 7 in (178 mm) & 12 in (305 mm) Impact Extensions
3/8" Drive Torque Wrench
Long 10mm Ratchet Wrench
Stud Remover / Installer
Long Screwdriver (RH Converter Only)
Paint Stick (RH Converter Only)
Exhaust Gas Oxygen Sensor Socket 303-476 (RH Converter Only)



NOTE: For stock/unsold vehicles, proceed to HVAC Module Reprogramming. It is not necessary to check for catalyst efficiency DTCs on stock/unsold vehicles.

1. Perform a KOEO self-test on the PCM. Is DTC P0420 and/or P0430 present (including pending DTCs).

Yes – Replace the catalyst as required. Please follow the WSM procedures in Section 309-00. Proceed to the HVAC module reprogramming procedure.

No – Proceed to the HVAC module reprogramming procedure.

HVAC Module Reprogramming

1. Reprogram the HVAC module using Integrated Diagnostic Software (IDS) release 106.07 or higher.

Important Information for Module Programming

NOTE: When programming or reprogramming a module, use the following basic checks to ensure programming completes without errors.

- Make sure the 12V battery is fully charged before carrying out the programming steps and connect IDS/scan tool to a power source.
- Inspect Vehicle Communication Module (VCM) and cables for any damage. Make sure scan tool connections are not interrupted during programming.
- A hardwired connection is strongly recommended.
- Turn off all unnecessary accessories (radio, heated/cooled seats, headlamps, interior lamps, HVAC system, etc.) and close doors.
- Disconnect/depower any aftermarket accessories (remote start, alarm, power inverter, CB radio, etc.).
- Follow all scan tool on-screen instructions carefully.
- Disable IDS/scan tool sleep mode, screensaver, hibernation modes.
- Create all sessions key on engine off (KOEO). Starting the vehicle before creating a session will cause errors within the programming inhale process.

Recovering a module when programming has resulted in a blank module: NEVER DELETE THE ORIGINAL SESSION!

- a. Obtain the original IDS that was used when the programming error occurred during module reprogramming (MR) or programmable module installation (PMI).
- b. Disconnect the VCM from the data link connector (DLC) and the IDS.
- c. Reconnect the VCM to IDS and then connect to the DLC. Once reconnected, the VCM icon should appear in the corner of the IDS screen. If it does not, troubleshoot the IDS to VCM connection.
- d. Locate the original vehicle session when programming failed. This should be the last session used in most cases. If not, use the session created on the date that the programming failed.

NOTE: If the original session is not listed in the previous session list, click the Recycle Bin icon at the lower right of the previous session screen. This loads any deleted sessions and allows you to look through them. Double-click the session to restore it.



- e. Once the session is loaded, the failed process should resume automatically.
- f. If programming does not resume automatically, proceed to the Module Programming menu and select the previously attempted process, PMI or MR.
- g. Follow all on-screen prompts/instructions.
- h. The last screen on the IDS may list additional steps required to complete the programming process. Make sure all applicable steps listed on the screen are followed in order.

