



# ROYAL CANADIAN MOUNTED POLICE

Installation Standards  
2013 Ford Interceptor Sedan

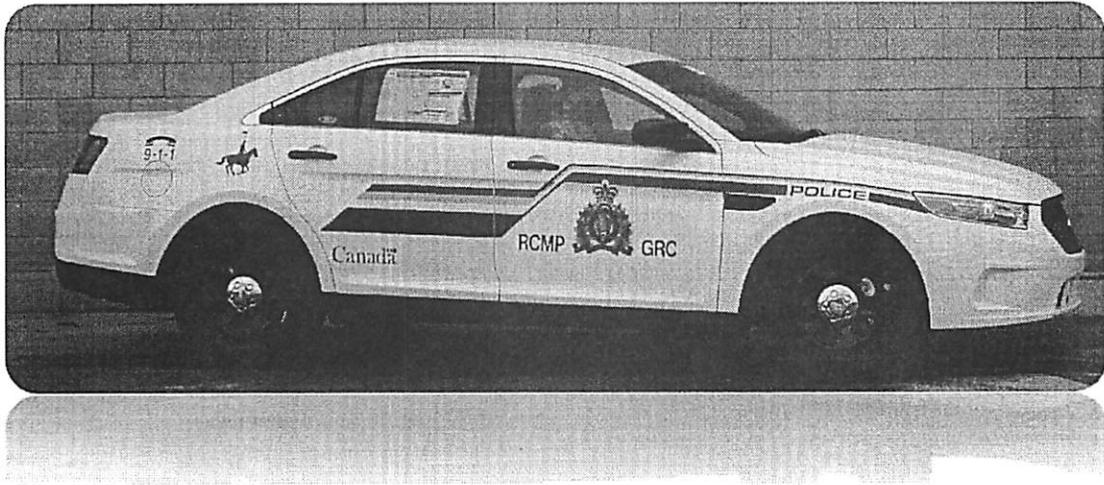
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## RCMP Installation Standards 2013 Ford Interceptor Sedan



*Draft – Aug. 10, 2012*



# RCMP Installation Standards 2013 Ford Interceptor Sedan

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# RCMP Installation Standards 2013 Ford Interceptor Sedan

## Introduction

Welcome to the 2013 edition of the RCMP Installation Standards Guide, Ford Interceptor Sedan. This technical document is designed to assist/instruct the RCMP vehicle equipment installer with the procedures required for the equipping of the Ford Interceptor Sedan.

The guide has been divided into three sections:

Level 1 - provides detailed instruction for control equipment mounting and most wiring requirements,  
Level 2- provides general instructions for the emergency warning and lighting equipment and video equipment,

Level 3 -provides general guidelines for the installation of communications equipment.

At the time of publication of this standards guide, national standing offers were not available for procurement of some of the required equipment. Therefore any reference to a particular brand or product in this document is to be used as an example for this reference guide only and not as recommendation to choose a particular brand or product. Products listed have been and are currently used by the RCMP in most Divisions and are considered capable of functioning to the current standards.

Following the guidelines does not assure the installer that the finished product meets the RCMP national standards. If followed, the installers' efforts in meeting the RCMP standards should be aided. Final inspection and approval by the local RCMP authority is required to ensure the vehicle meets national standards.

This instruction is designed for the professional installer and it is expected that all workplace Health and Safety precautions be strictly adhered to.

### ***Notice and Important warnings***

This guide includes instructions, which require special attention. '*Notice*' and '*Important*' have been inserted to give you additional information to the instruction being provided.

'*Important*' indicates an emphasis on a point that may be critical to the systems proper operation. '*Notice*' indicates an instruction that will facilitate the procedure.



## **RCMP Installation Standards 2013 Ford Interceptor Sedan**

### **New in the 2013 Edition**

- Ford Interceptor wiring harness.
- New 80 Amp breaker location.
- New horn transfer relay location.
- Corner LED's (4).
- Siren speaker and bracket.
- Grill lamp harness addition.
- New equipment tray.
- New accessory trigger input location.
- Crown retrofit kit Solaris traffic arrow.
- New Kustom Signal Digital Eye Witness video system overhead console mount.
- Secure idle location and illuminated button.
- Daylight running light override.
- Wig wag trigger and warn module
- Front dimmer function light bar only.
- Auxiliary battery and separator locations.



## RCMP Installation Standards 2013 Ford Interceptor Sedan

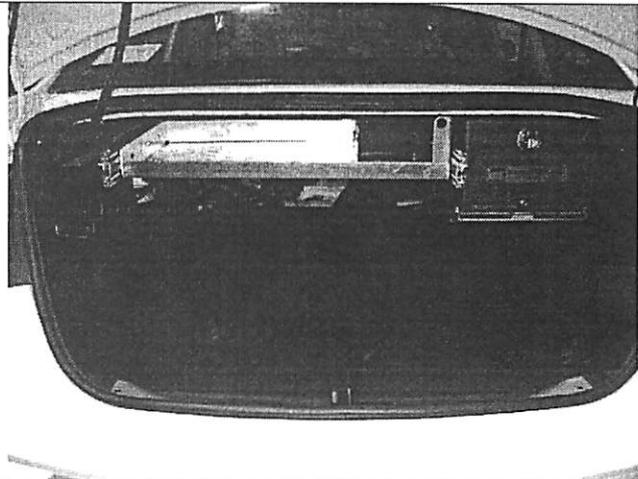
### Police Prep Package

As of 2013 the Ford Interceptor is delivered with the full RCMP equipment wiring harness, Horn transfer relay installed, 4 Corner LED (Strobe) lights and the 80AMP circuit breaker installed, Accessory input wire pre spliced to power source, Traffic arrow retro kit and DRL over ride pre installed at the factory. This will facilitate the installation process for the installer.

Trunk Compartment showing:

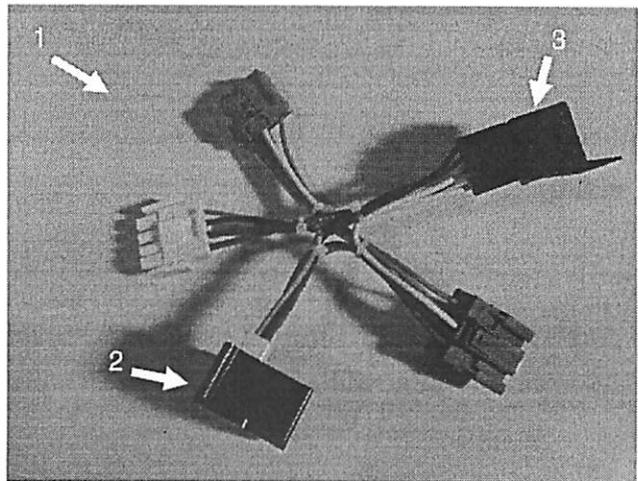
1. Pre installed RCMP wiring harness
2. Wiring accessory package
3. Trunk tray preinstalled with video vault shelf, (Shown with video vault).
4. Auxiliary battery

**Notice:** see Appendix D for parts checklist to verify contents of bag



1. DRL/horn interface harness (located behind knee bolster next to BCM) .
2. DRL over ride module
3. Horn relay module

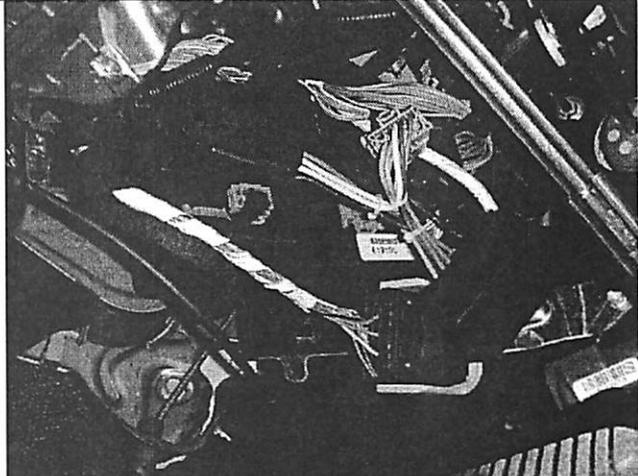
**Notice:** Preinstalled DRL Override.





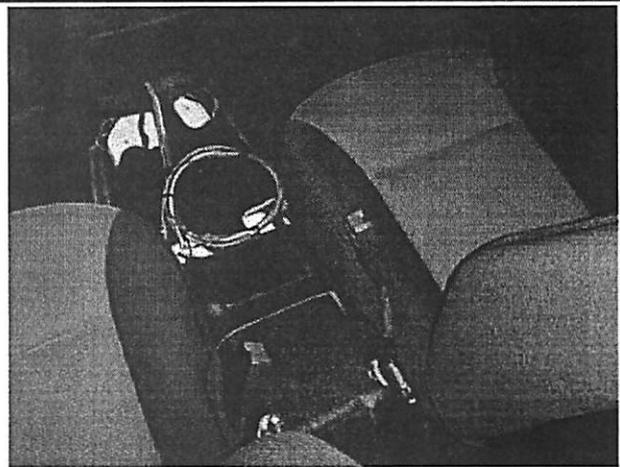
## RCMP Installation Standards 2013 Ford Interceptor Sedan

DRL harness located under the dash next to the BCM on the driver's side.



Interior showing:

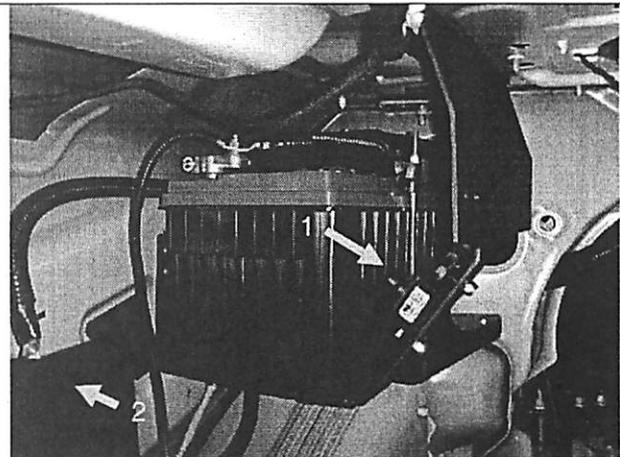
1. Wire bundle secured in centre tower



Trunk area showing

Pre installed 80-AMP Circuit breaker (1)

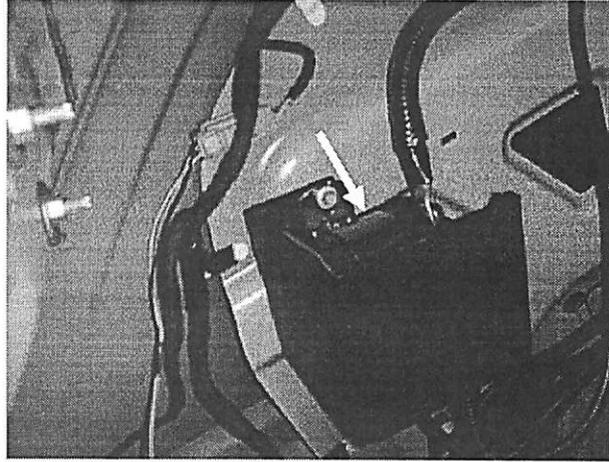
Separator bracket location (2)



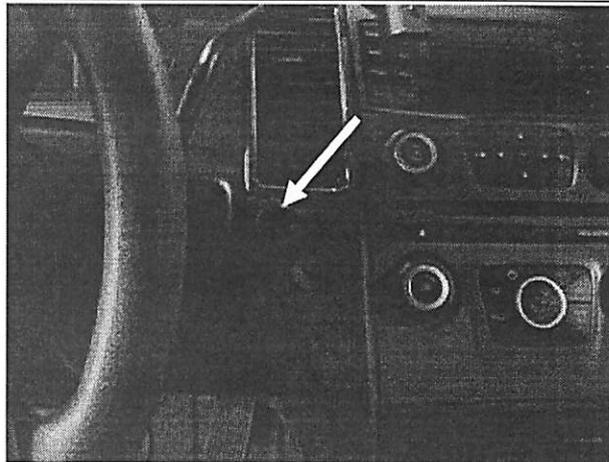


## RCMP Installation Standards 2013 Ford Interceptor Sedan

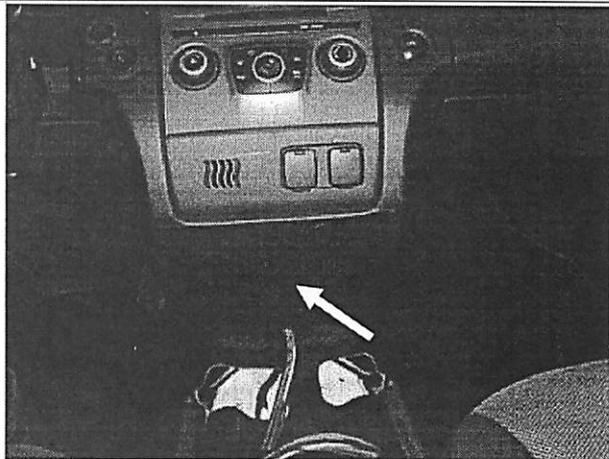
Separator secured to mounting bracket  
Located behind trunk lining on drivers side of trunk



Interior area showing  
Pre installed Secure idle.  
Button located next to the ignition.  
Button illuminates while in Secure Idle mode.

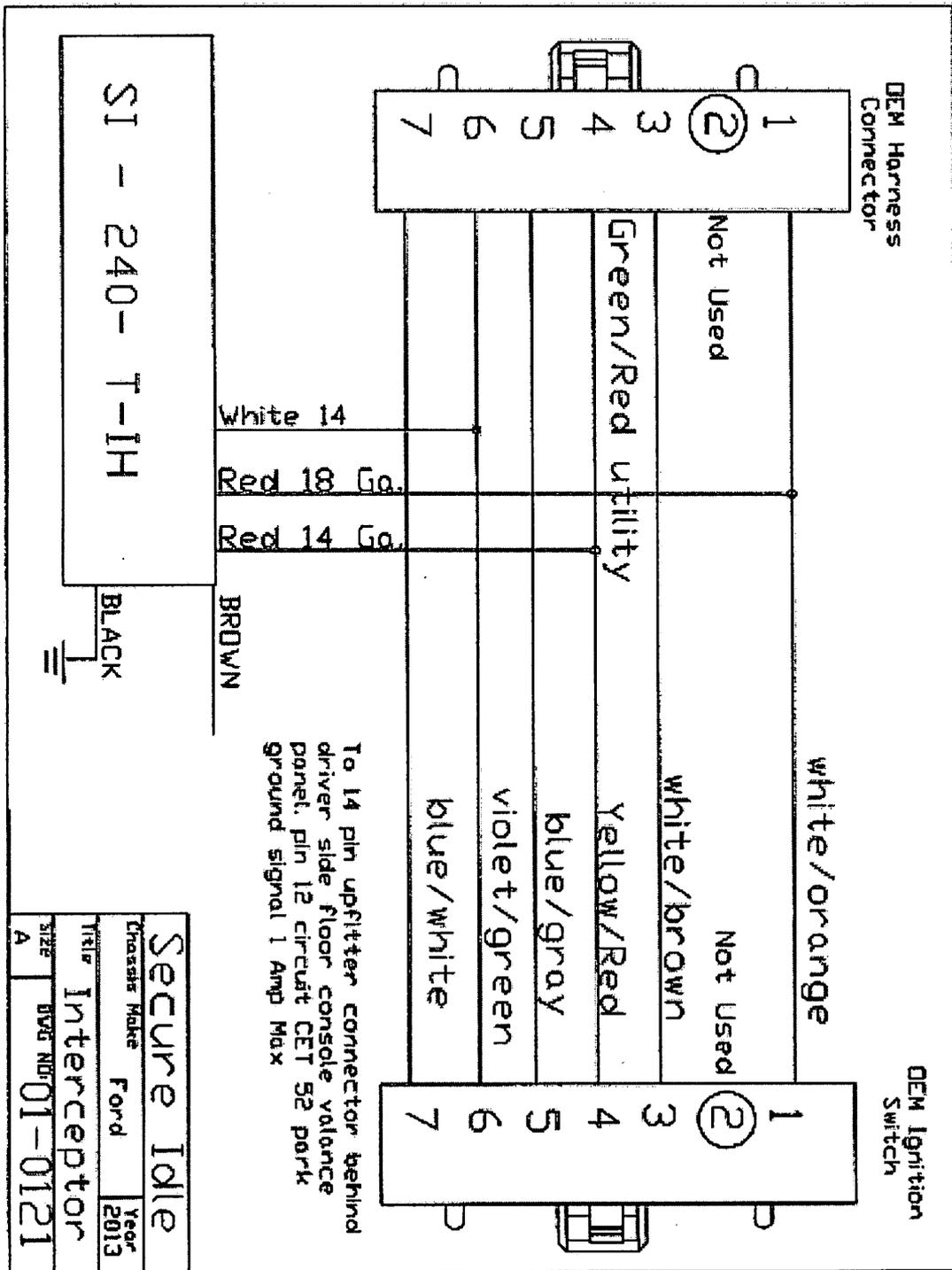


Secure Idle module located under dash center panel





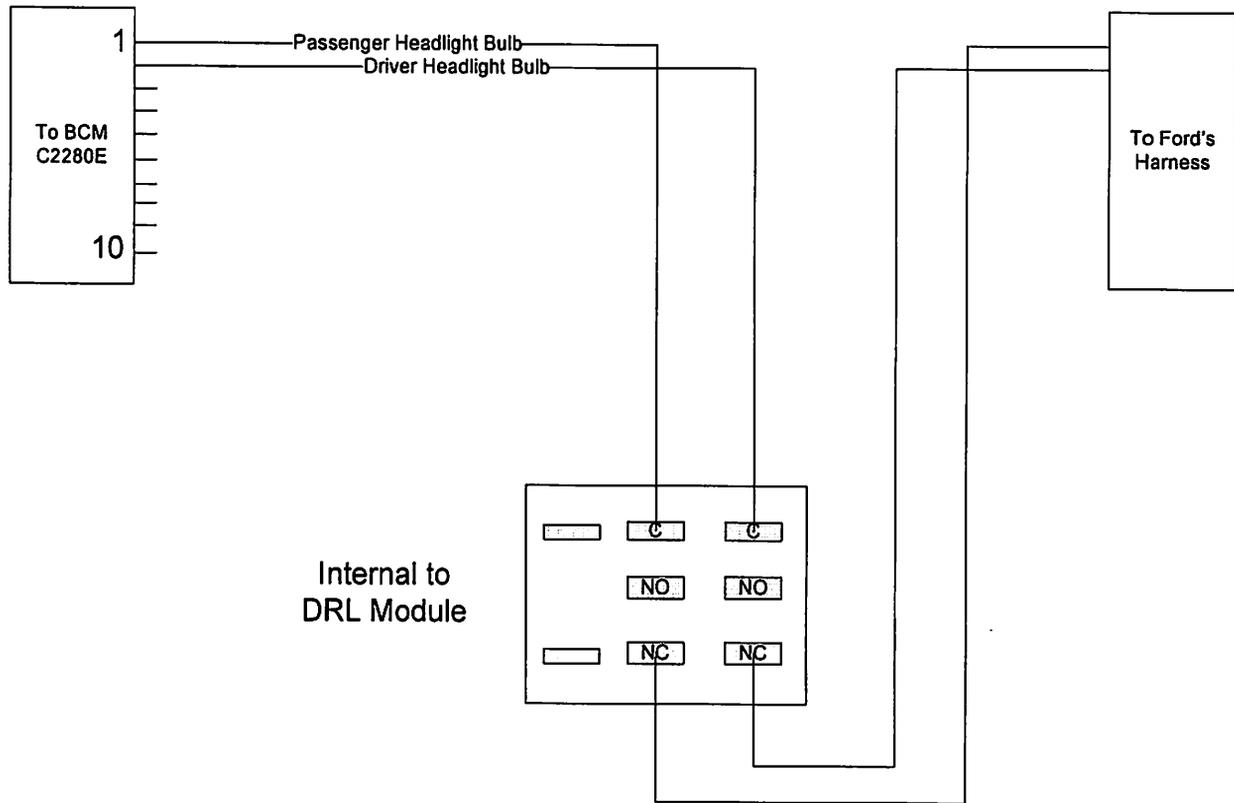
## RCMP Installation Standards 2013 Ford Interceptor Sedan





# RCMP Installation Standards 2013 Ford Interceptor Sedan

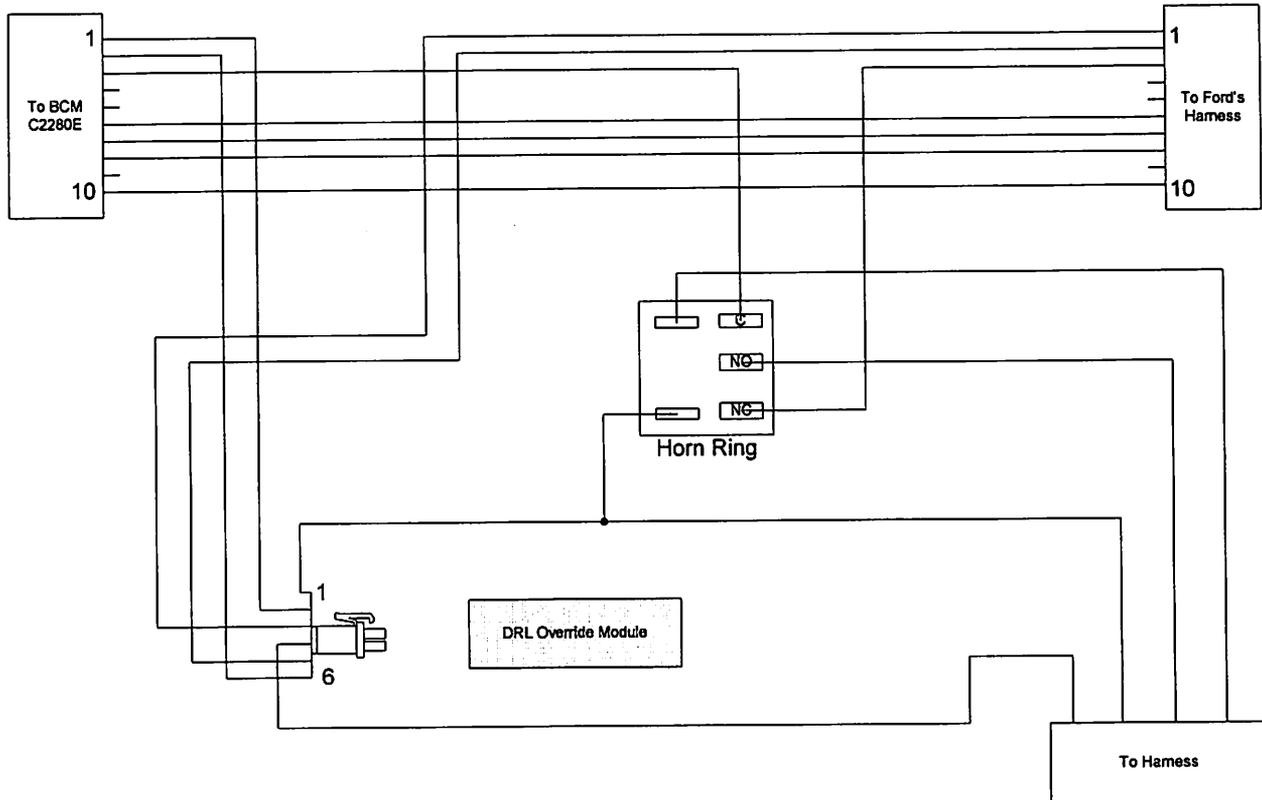
Diagram of DRL override wiring





# RCMP Installation Standards 2013 Ford Interceptor Sedan

'Pentaharness' (five armed harness for DRL Override module) diagram



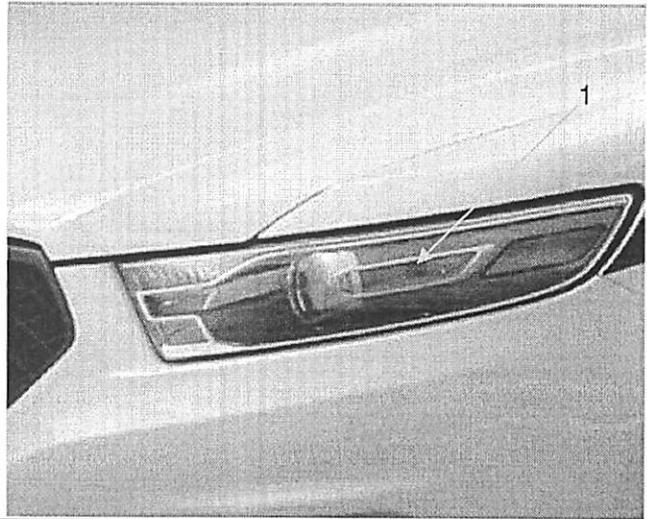


## RCMP Installation Standards 2013 Ford Interceptor Sedan

Exterior showing pre-installed front corner LED light (1) inside the lens.

Rear LEDs are mounted inside the light housing.

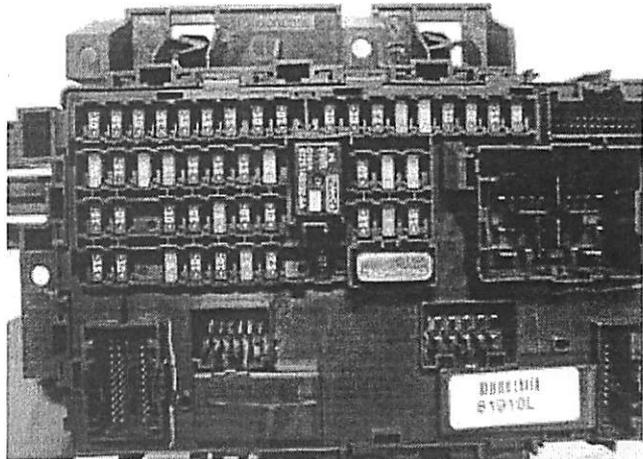
**Notice:** Each light has its own inline power supply one foot inboard of light mounting points. Whelen Vertex are the Ford approved product.



Accessory delay fuse (for PDU trigger) in BCM under D/S dash.

15 Amp low profile mini fuse. #32

Trigger line also has 3 Amp inline fuse

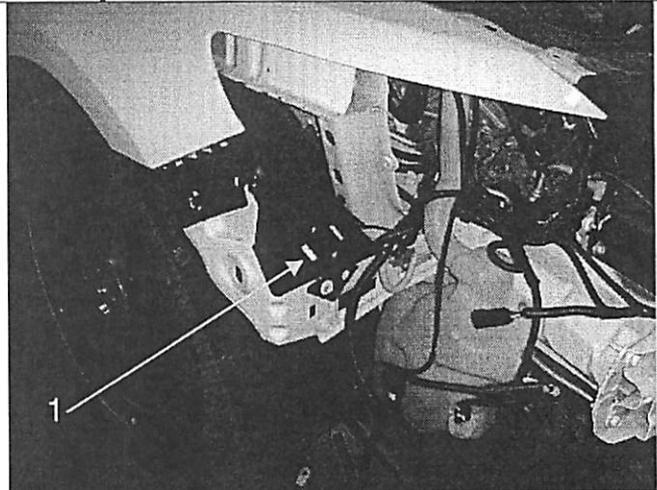




## RCMP Installation Standards 2013 Ford Interceptor Sedan

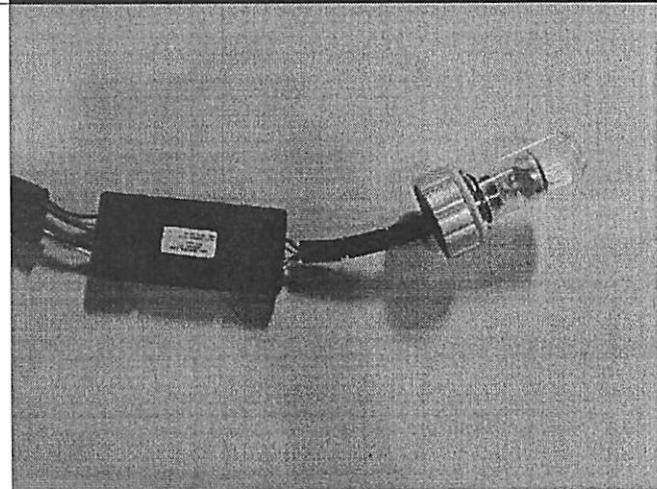
'Warn' module, located under the RH headlight assembly.

This is part of the Wig Wag function for the vehicle.



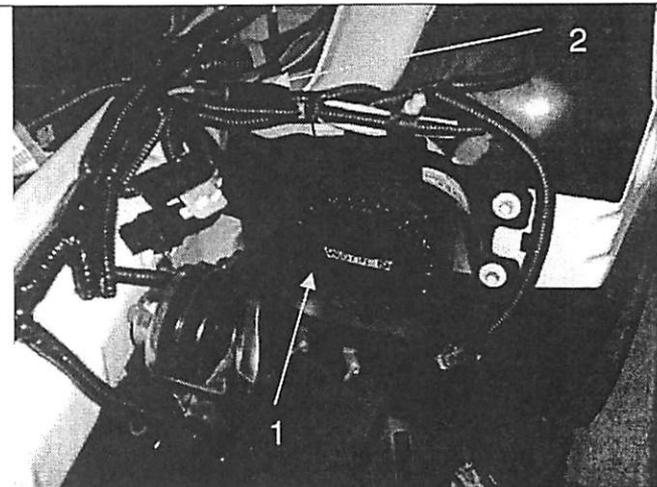
TPW (Turn/Park/Wigwag) LED light with power supply. LED is located inside LH & RH headlamps.

**Note:** The Interceptor does not Wig Wag the headlamps. There is a mechanical shutter system for changing the HI/LOW beam state of the headlamps. Wig Wag is performed as part of the TPW LED.



Siren speaker (1) at the front driver's side of the vehicle behind the bumper fascia.

Siren speaker connector (2)





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Preparation

Based on a complete install including partition, Video system with overhead console, roof light bar, PDU and Cencom siren light controller.

### Trunk

- Ensure the 80A circuit breaker is open.

**Caution:** The wire from auxiliary battery to the separator and 80A breaker is still LIVE even with the 80A breaker open. To minimize accidents during the installation procedure, you may wish to disconnect the Auxiliary Battery's cable.

### Engine compartment

- Disconnect the battery negative terminal.

### Front Interior

- Remove door sills D/S & P/S
- Remove Upper A pillar panels P/S
- Remove P/S Sun visor
- Remove Upper/Lower B-Pillar panels D/S & P/S

### Rear interior

- Remove rear bench seat and back
- Remove door sill D/S & P/S
- Remove upper C-pillar panels P/S
- Remove grab handle from head liner P/S



## RCMP Installation Standards 2013 Ford Interceptor Sedan

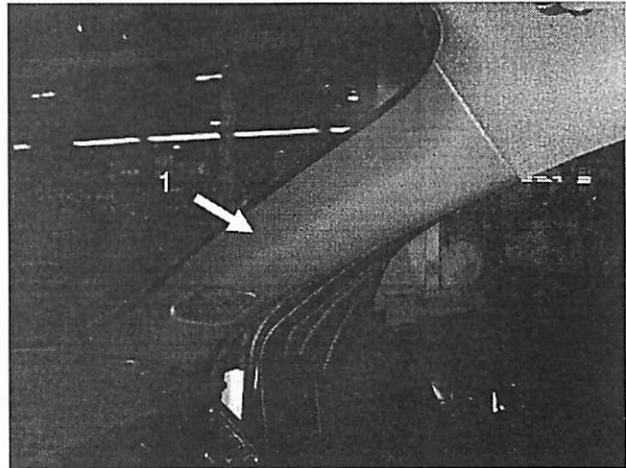
### Level 1 Procedure

#### Interior Disassembly

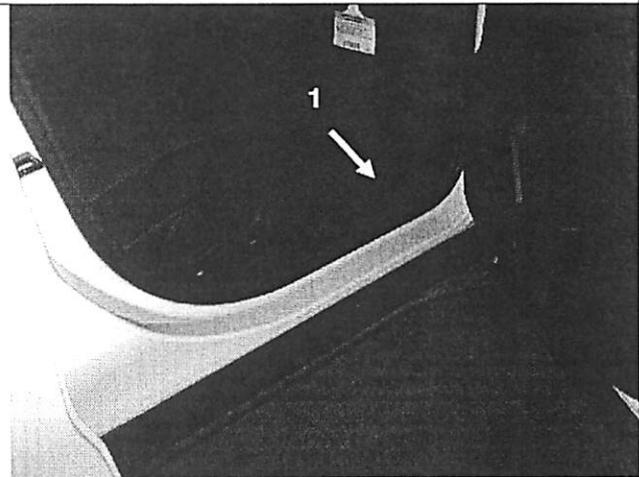
Interior disassembly

**Notice:** It is recommended to do all the disassembly before beginning Level 1,2,3 procedures

Remove P/S upper A Pillar panel (1) by pulling towards you starting from the top.



Remove P/S D/S door sill (1)  
Starting from the rear section pull up and then to the rear of the vehicle.



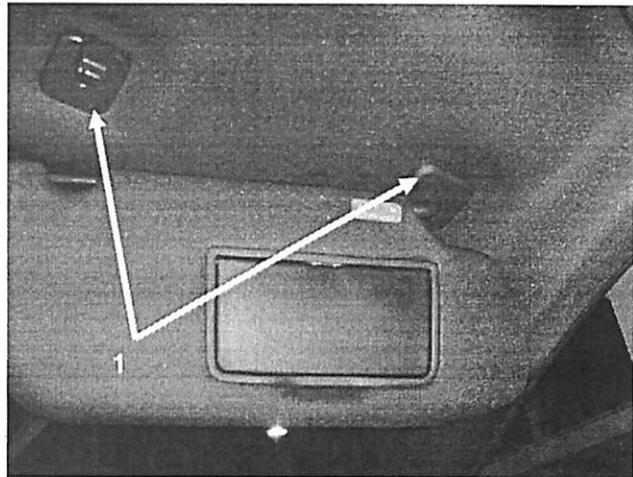


## RCMP Installation Standards 2013 Ford Interceptor Sedan

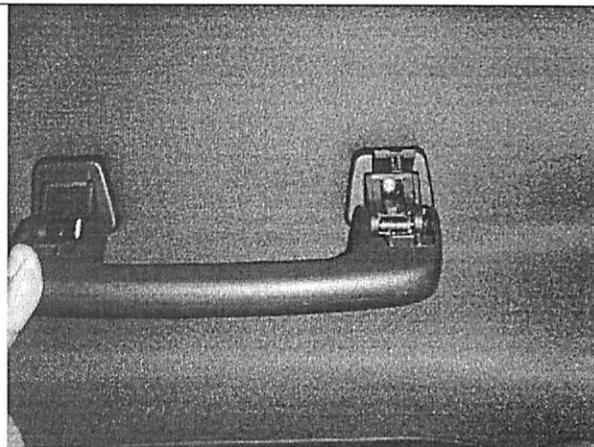
Remove P/S, D/S rear scuff plate  
(1).



Remove P/S sun visor by removing the 4 #10  
torx screws (1)



Remove P/S grab handle (1) from head liner by  
removing the 2 #10 torx screws





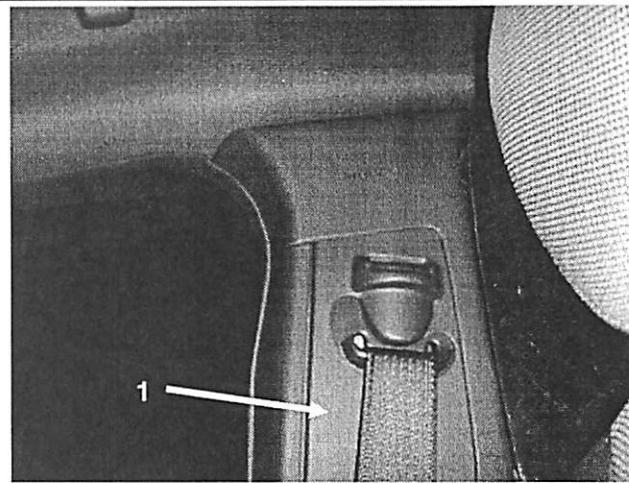
## RCMP Installation Standards 2013 Ford Interceptor Sedan

Remove the P/S & D/S lower B pillar panel (1)

Grab the edges of the panel as shown and pull to disengage

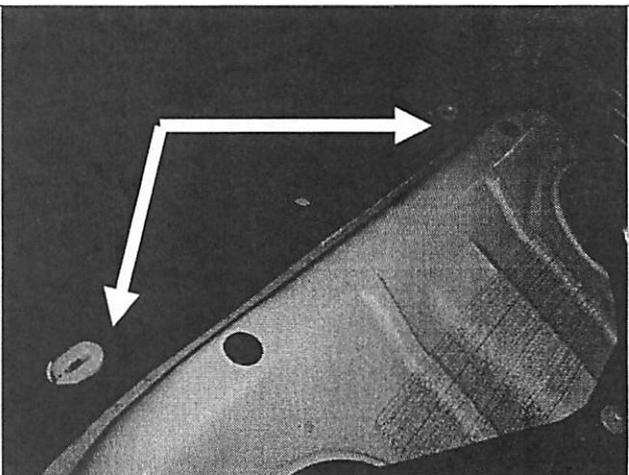


Remove the P/S & D/S upper B pillar panel (1)  
by removing the 1 Philips screw



Rear seat removal.

To remove the cushion, locate the locks under  
the front section of the cushion.



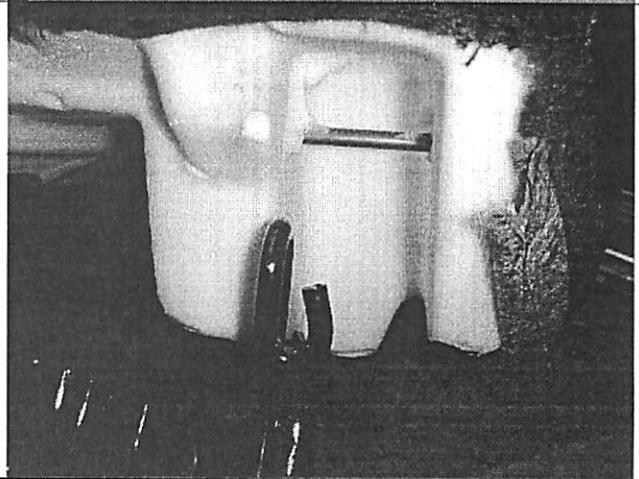


## RCMP Installation Standards 2013 Ford Interceptor Sedan

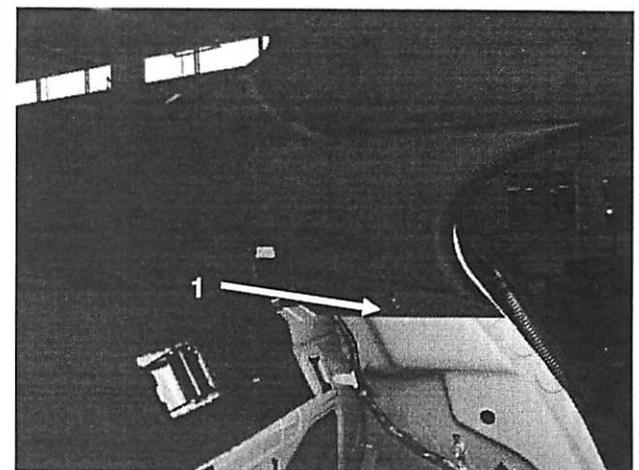
Release the lock and pull up the cushion.  
Repeat step on the other side to release the  
front section



To release the rear section, push the cushion  
back against the seat back lower section and  
then up to disengage it from the hook.  
Repeat step on the other side.



Remove the C pillar panels removing 10MM  
screw (1). Then pull working your way towards  
the rear of the vehicle.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Trunk tray preparation

**Notice:** Use the following photos and diagrams to assist with component placement.

Refer to Appendix K for expanded diagram.

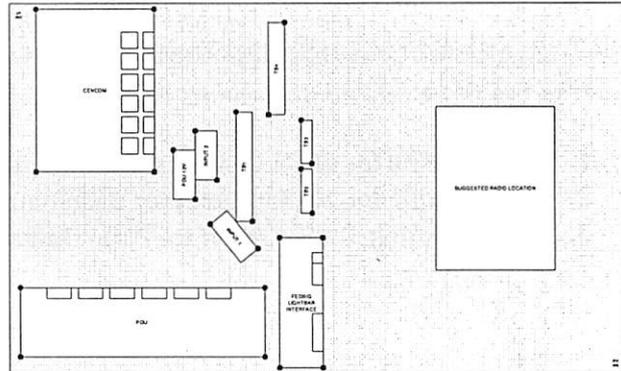
- (1) CENCOM
- (2) PDU
- (3) FEDSIG LIGHTBAR INTERFACE

**Notice:** Ensure that TB2, TB3 and lower half of TB1 have bridges installed

**Notice:** PDU switch location (This sets it for 1HR timer)

SW#1 Off (up)      SW#2 Off (up)  
SW#3 On (Down)      SW#4 On (Down)

**Notice:** All wiring connections are to be soldered



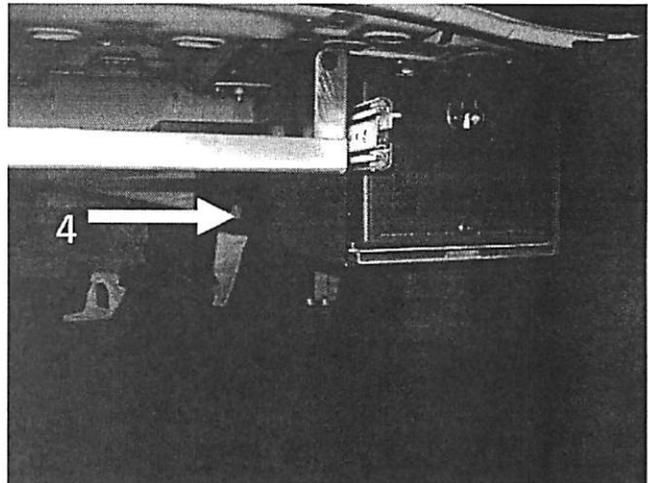
Video vault mounting location (4) if applicable.

Recommended mounting hardware:

- PDU-1/4x20x3/4 Hex head screw (facing Towards the left)
- Siren control-1/4x20x3/4 dome head screw (Facing towards the rear)
- Serial interface module-10/32 Machine screw (Facing towards the left)

Screw 'facing' orientations should minimize interference between components.

NOTE: If no video vault is required, this shelf area can be used for radio repeaters, ALPR or other equipment.





# RCMP Installation Standards 2013 Ford Interceptor Sedan

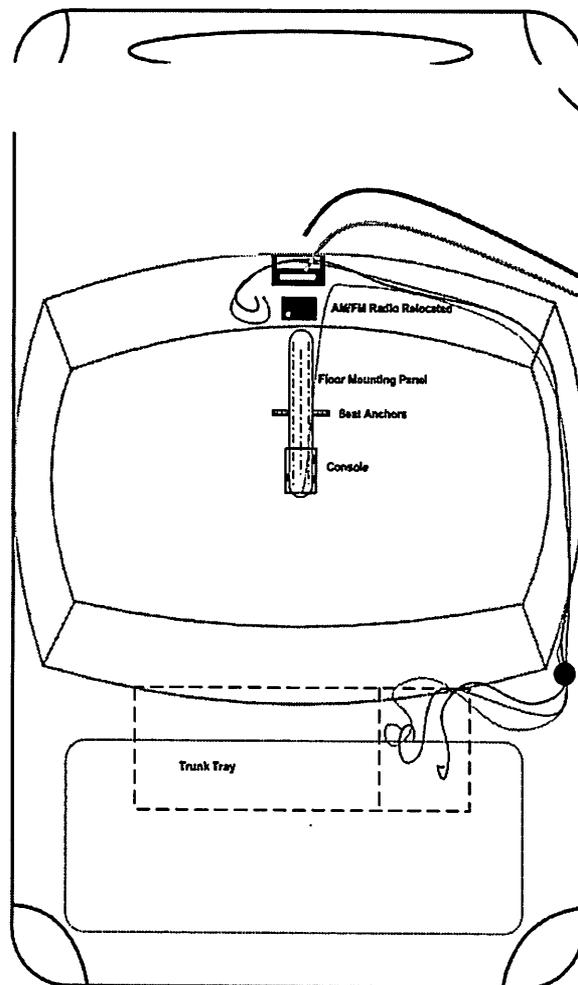
## PMT Laptop Mounting System Installation

Cabling on Passenger side (RCMP Harness is routed on Driver's side of Vehicle)

### PMT supplied Installation Instructions

Refer to the three related documents from PMT that give more detail on installation instructions:

1. Install Guide for PMTL Consoles and Mounting Systems
2. Install Guide for 2013 Interceptor Dashmount Kit
3. CF-31 Docking Station Interface Plate Upgrade Procedure



- PA Microphone Extension Cable
- Siren Controller Serial Cable
- Two-Way Radio Control Head Cable

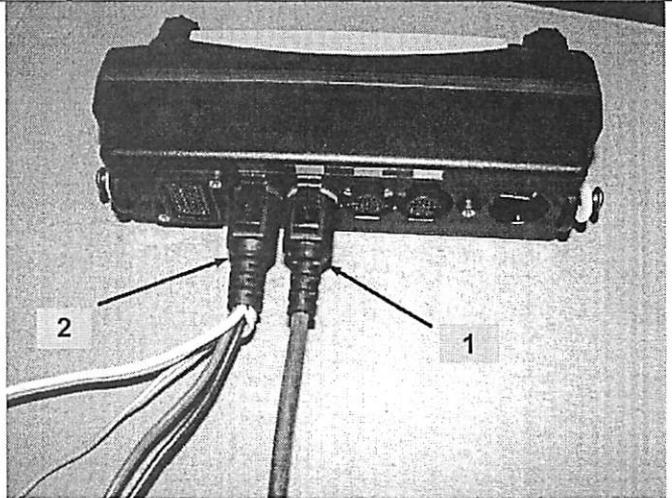


## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Motorola XTL5000 – '05' Control Head

Wiring as follows:

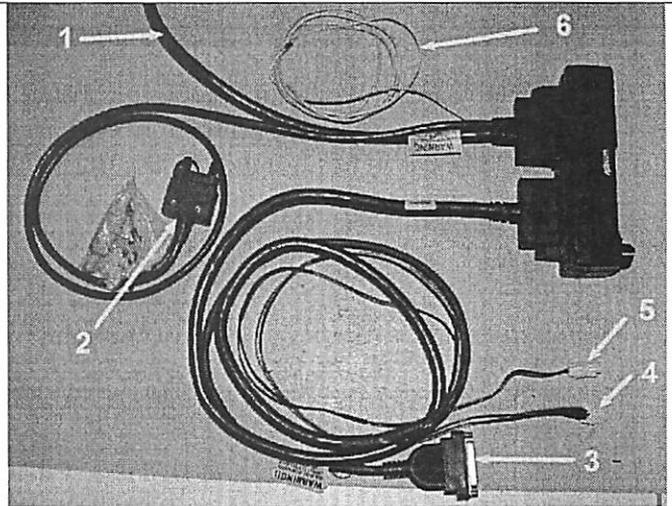
- \*Transceiver control head cable to trunk (1)
- \*Control head power cable (2) consisting of;
  - Red wire – Console battery panel (5A)
  - Black wire – Console ground stud
  - Yellow wire- Console accessory panel (3A)
  - Grey wires – to console speaker connector



### Harris/MaCom M7100 Scan Control Head

Wiring as follows;

- \*Transceiver-Control Head link (1)
- \*Radio Programming cable (2)
- \*Extended option connector (3)
- \*Accessory connector (4)
- \*Speaker connector (5)
- \*Switched power –to console accessory panel (1A) (6)



1. Radio Microphone can be mounted with the PA Microphone on an empty filler panel on the PMT console as shown.

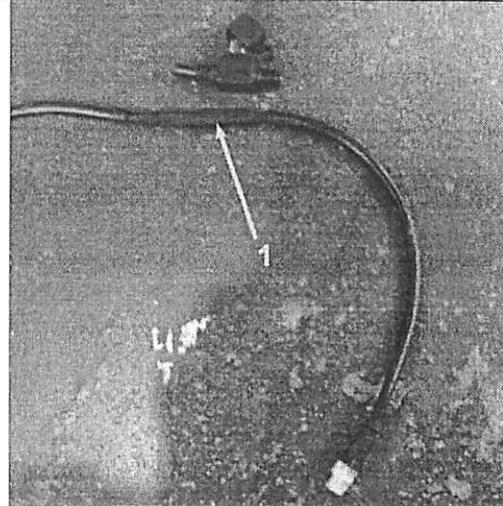
Note: This diagram shows a combined radio microphone and controller instead of just the radio microphone.



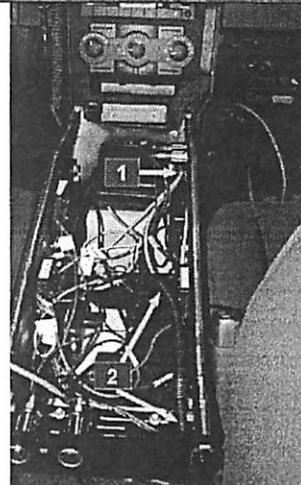


## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Newer modem power cables are supplied with an inline fuse near the connector. Splice out this fuse to avoid double fusing the circuit. **(1)**

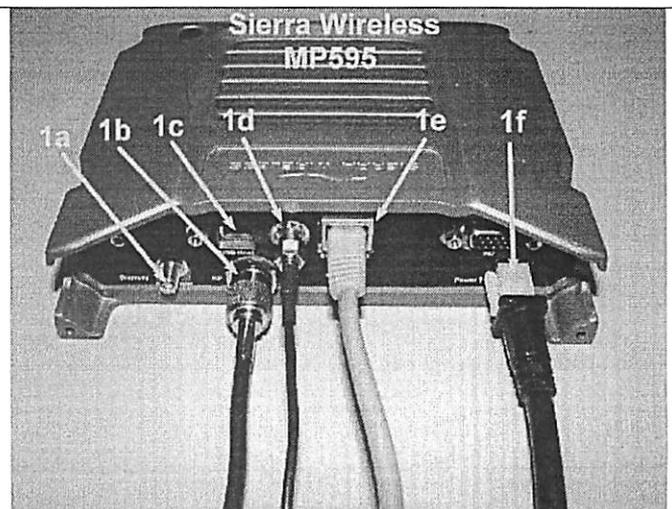


1. Pass USB token extension and card reader cables under passenger side of console in front of the middle floor bracket. **(1)**
2. Pass modem power cable, GPS/ RF cables and dock Ethernet cable through console exiting under the P/S rear corner. Cables are to be covered in loom tubing up to the modem. **(2)**  
This is a Charger Photo and needs to be replaced with Interceptor photo.



1. *Populate the modem as follows:*
  - \*Diversity antenna (optional) **(1a)**
  - \*RF antenna (TNC connector) **(1b)**
  - \*USB – Modem to dock (optional) **(1c)**
  - \*GPS antenna (SMA connector) **(1d)**
  - \*Ethernet to dock **(1e)**
  - \*Power connector **(1f)**

**Note:** Consult Radio Workshop for guidance on 'optional' connections. Wireless modem models may vary from example shown.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Position of PA (PTT) Microphone

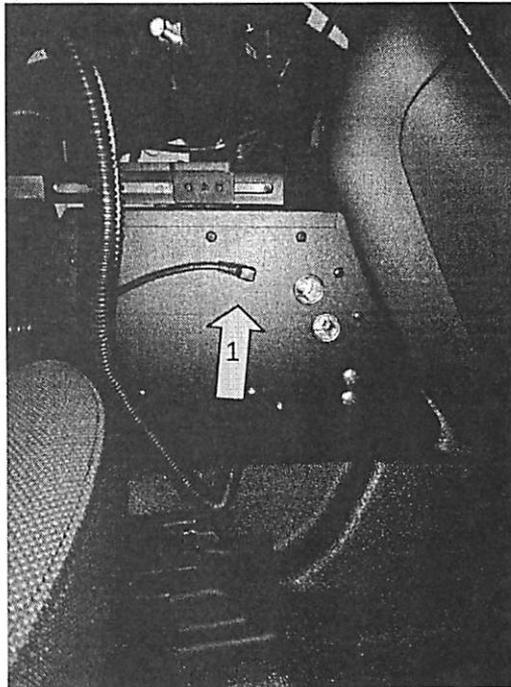
### Position of Handsfree Phone (if applicable)

- 1) Mount Mic clip and microphone on available filler plate on top of PMT console.
- 2) Mount handsfree phone on available filler plate on top of PMT console. (2)

Note: Photo shows Radio Microphone/Controller combination as well as the PA Mic.



- 3) Drill and install PA microphone jack approx 2 inches left of the power outlets on passenger side of PMT console.(1)





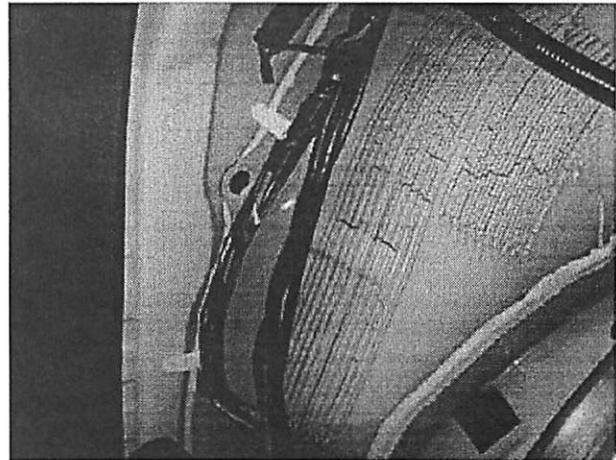
## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Radio and Siren Cable Installation

#### Required:

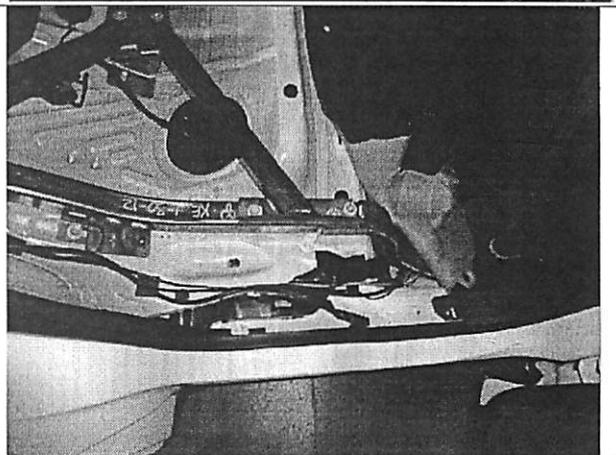
Two-way radio control cable, CENCOM cable, siren PA microphone extension cable  
Two-way radio speaker

1. Push passenger seat rearward
2. Pull floor mat away from sill channel
3. Route the following cables as indicated beside factory harness
  - Two-way radio control head end
  - CenCom at the control head end
  - PA extension at the jack end



1. Pull back front P/S floor mat
2. Route the aforementioned cables as shown

Route cables under P/S dashboard following prep package harness

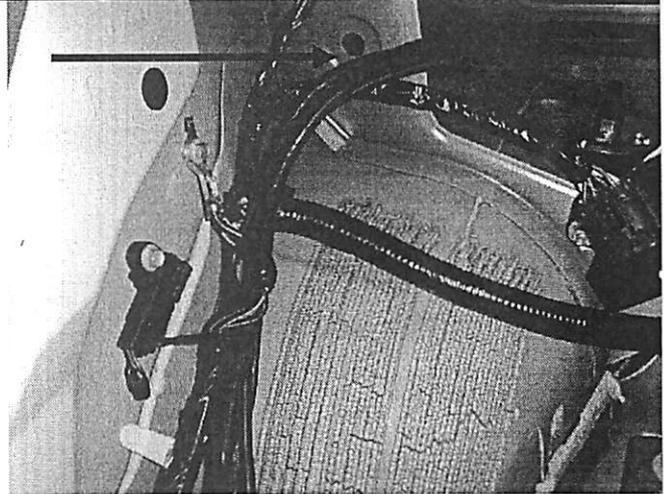




## RCMP Installation Standards 2013 Ford Interceptor Sedan

Following the factory wire harness, route added wires (radio, PA, etc) towards the trunk compartment.

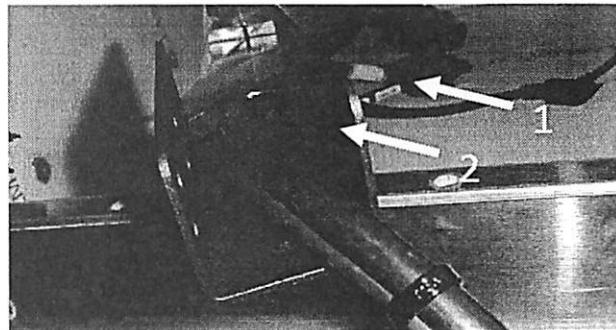
Stopping at the rear seat bench area. (1)



1. Collect added wiring (radio, PA, etc), cover with 1" split loom provided same as prep package harness (1).

**Note:** Split loom not shown.

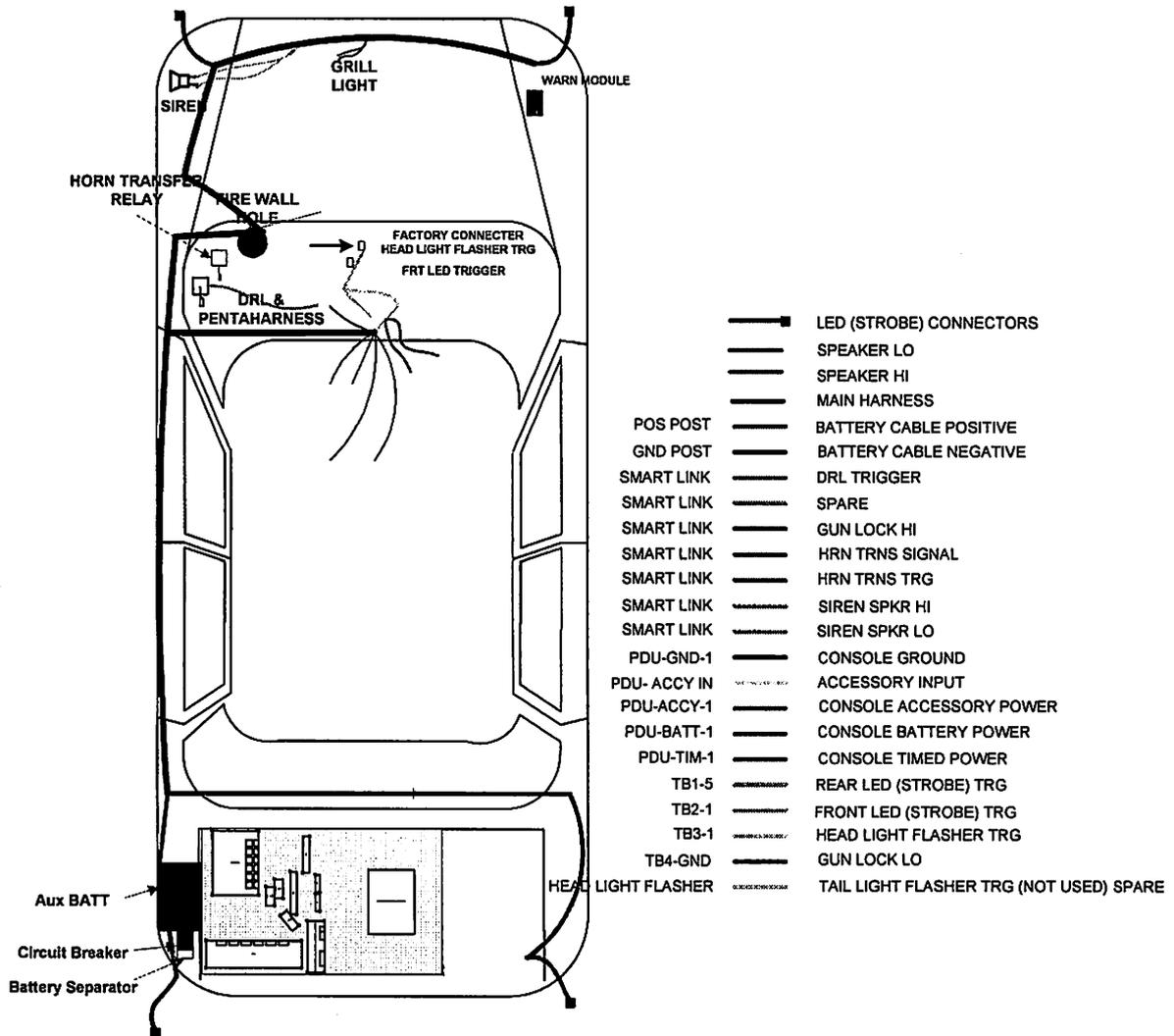
2. Secure harness to trunk tray (2) and harness shield (3) using 2 P-Clamps same as prep package harness





# RCMP Installation Standards 2013 Ford Interceptor Sedan

## Wiring harness layout Diagram – RCMP Wiring Harness

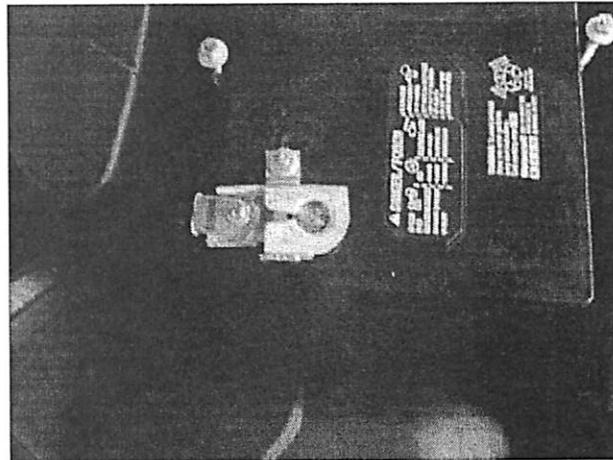




## RCMP Installation Standards 2013 Ford Interceptor Sedan

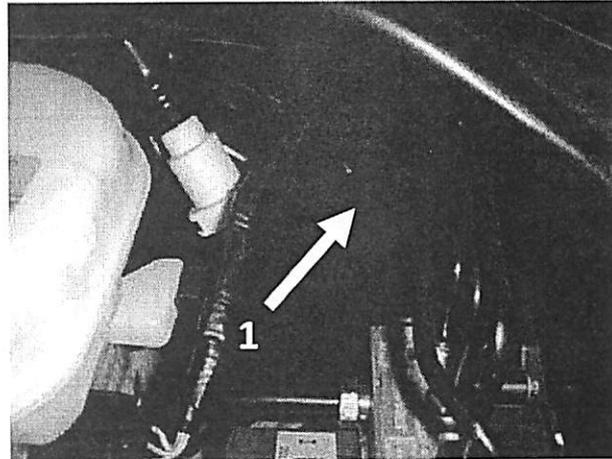
**Notice:** Terminals connected to battery posts must be greased to prevent corrosion.

1. Disconnect ground from battery
2. Connect black 4 AWG cable to ground post on battery terminal (use stainless 1/4-28 nut)



1. Location of fire wall, RCMP wire harness coming thru the gromet in fire wall under hood (1)

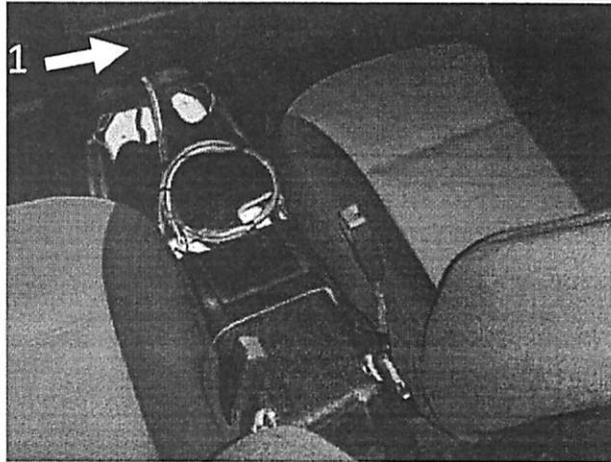
**NOTICE :** All wiring under hood and in grill area must be loomed,sealed shut with electric tape and secured using cable ties.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Interior harness is located behind trim panel (1)

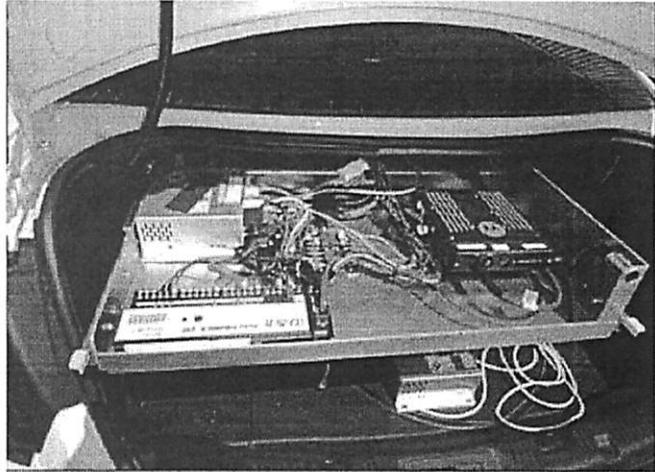


**Note:** Oversize the CENCOM mounting holes to ease installation.

**Notice:** Do all connections to TB1, TB2, TB3, before hooking up connectors to CENCOM.

1. Wire the main harness to the PDU as shown in the wiring diagram
2. Tuck wires under CENCOM (1)
3. Ensure fuses are in place for each circuit
  - ACCESSORY: 20A fuse
  - BATTERY: 20A fuse
  - TIMED: 20A fuse side tabs

Place covers over battery posts (Will require side tabs to be cut).

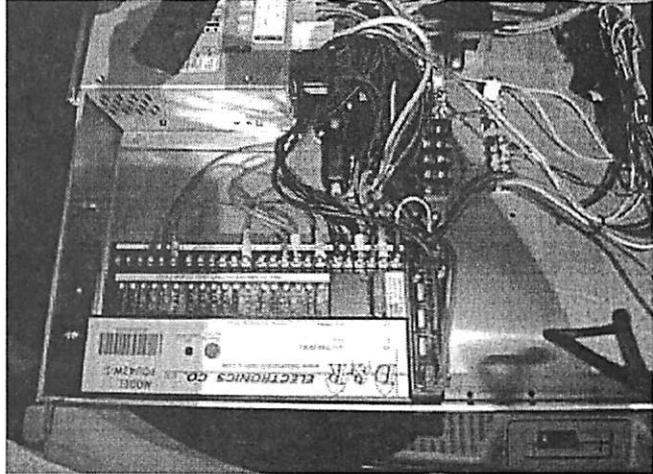




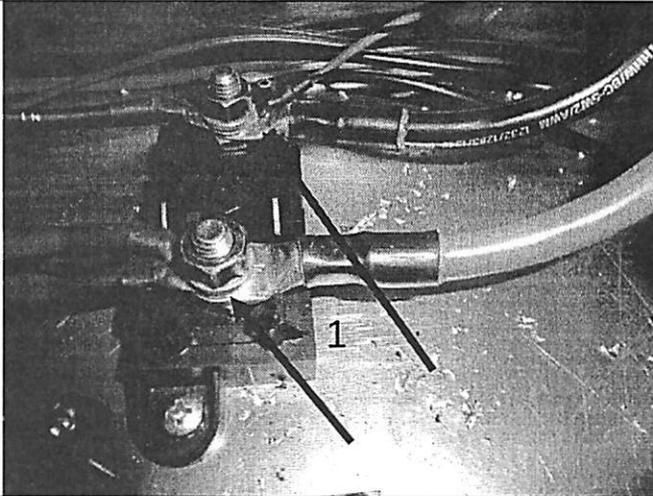
## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Commence the interfacing of the Cencom controller to the PDU and TB1, TB2, TB3, TB4 as per wiring diagram. (next page)

**Notice:** Bend spade terminals up at 45 degrees.



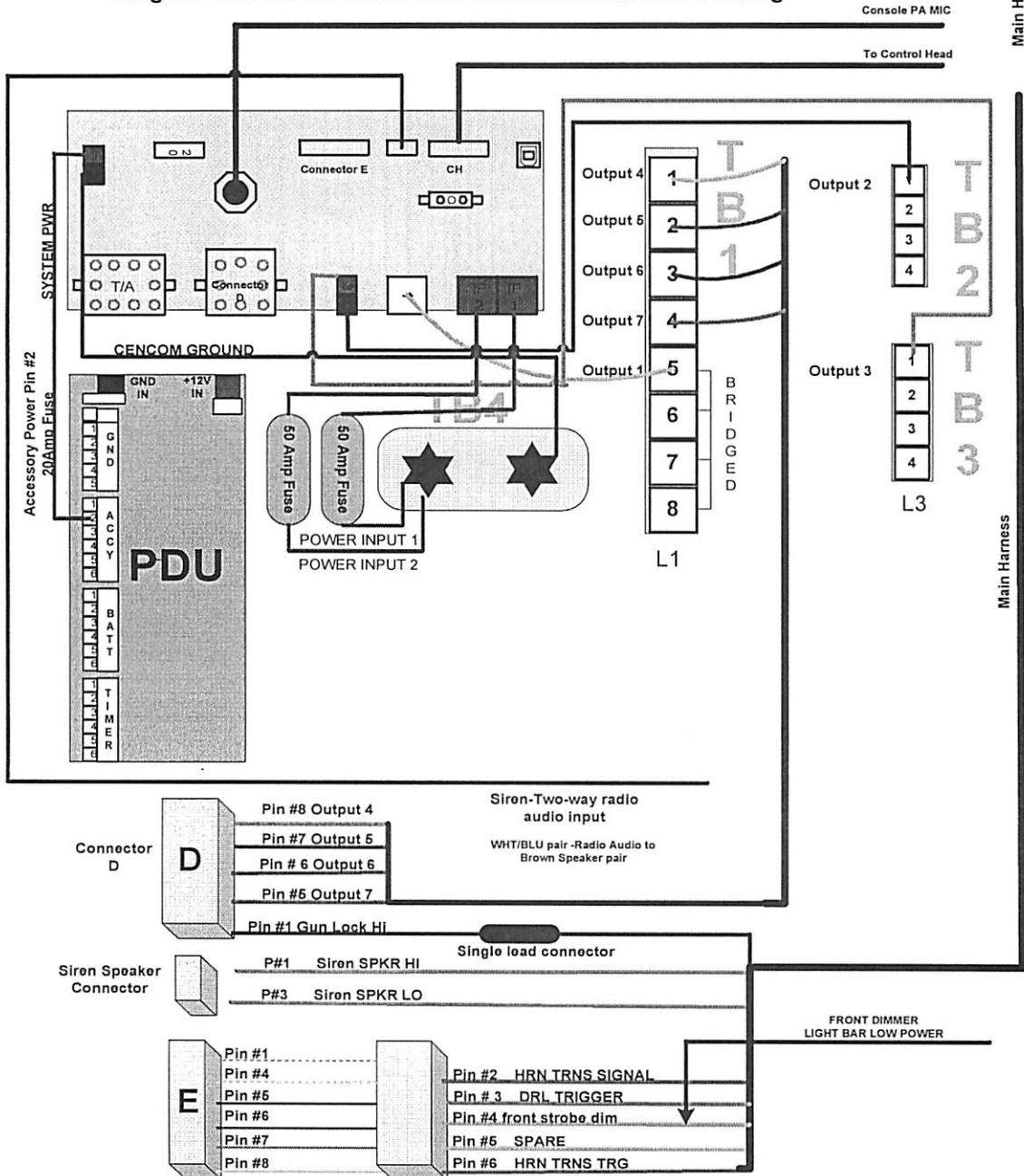
1. Connect battery cables to battery cable posts TB4; (1)
2. Leave nuts loose at this time





# RCMP Installation Standards 2013 Ford Interceptor Sedan

Diagram-Whelen CENCOM Siren Controller Installation Wiring



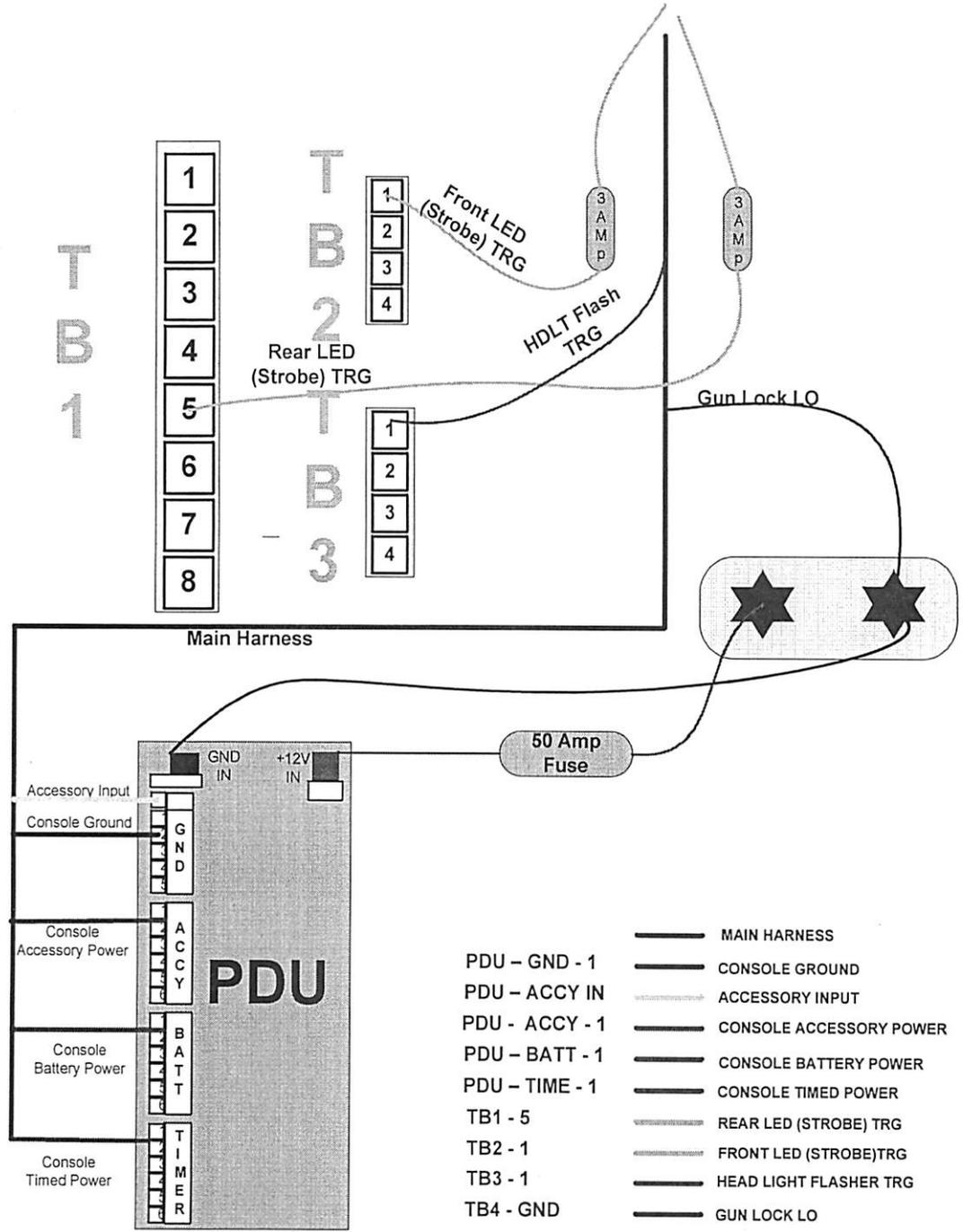
SPARE (pin #5) wire should only be used as a 'trigger' wire if not powering low power devices

## Whelen Cencom Siren Light Controller Installation Wiring



# RCMP Installation Standards 2013 Ford Interceptor Sedan

## Trunk tray wiring harness hookup



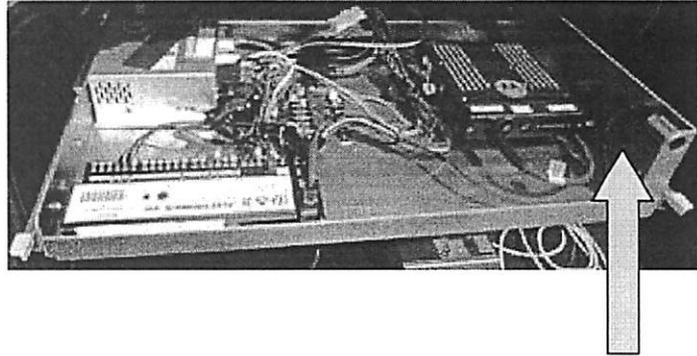
Note: Do not connect Brown 'Tail-Light flasher' wire. Currently un-used functionality. Tape end off.



## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Connect red wire to time power terminal #3 with a 15 amp fuse

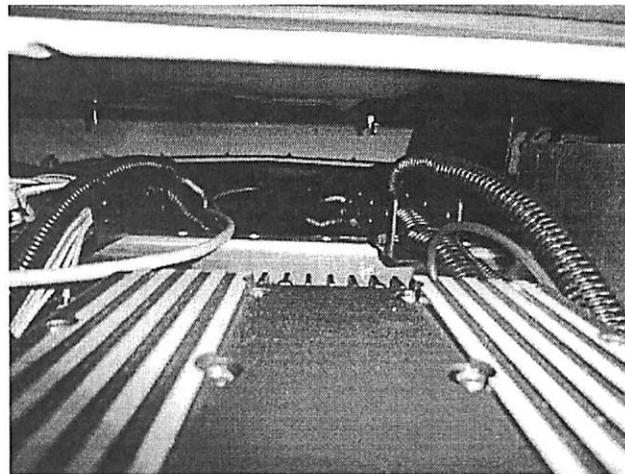
Connect the ground terminal to the PDU ground



1. Route the two-way radio, siren PA extension, control and speaker input wires along same path as main harness into trunk tray and lay out appropriate cable lengths.

Place a temporary tie wrap on the pivot point

Note: This photo is taken from rear of vehicle into rear of tray.



1. Open master breaker circuit (red pushbutton)
2. Connect positive battery jumper cable to positive post (1) using 1/4 -28 nut (supplied with harness kit)
3. Ground cable previously attached to battery ground post (2)
4. Close master breaker (side tab inward)

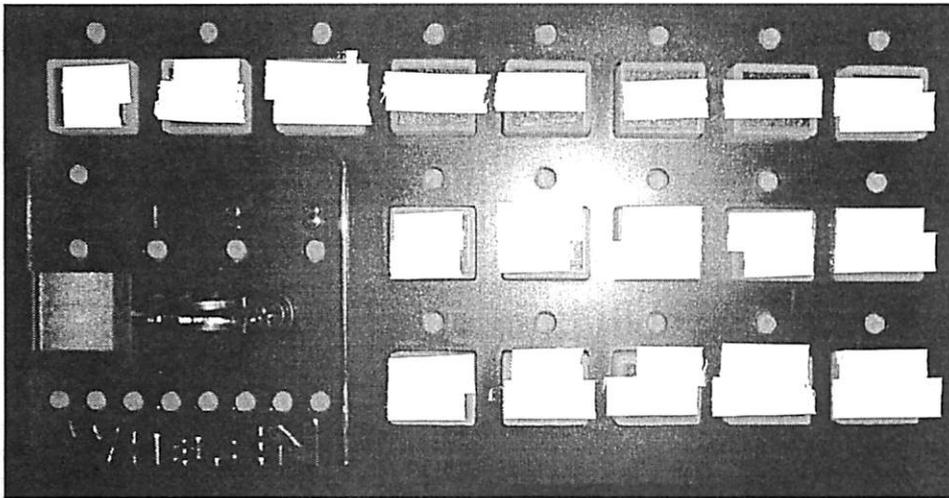
Test all power circuits (PDU and Console)



## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Siren/Light Control Head Labeling (Whelen Cencom Gold)

1. Using the decal sheet supplied, label the siren buttons as indicated:



Note: Change 'AUX' label to an available 'Lamp' Icon label if using this control for supplemental rear compartment lighting for In car video application.



## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Level 2 Procedures

Equipment	Manufacturer	Part Number
<b>Roof light bar</b> Available on standing offer	Federal signals	Legend
<b>Traffic arrow</b> Expired Standing offer. Crown has included a Retro Kit with every 2013 Sedan to reuse existing Traffic Arrows.	Federal signals	Solaris
<b>In car video system</b> Expired standing offer Overhead Console Mounting kit for Interceptor	Kustom signals  R Nicholls	Digital Eyewitness  P/N 050-1933-00



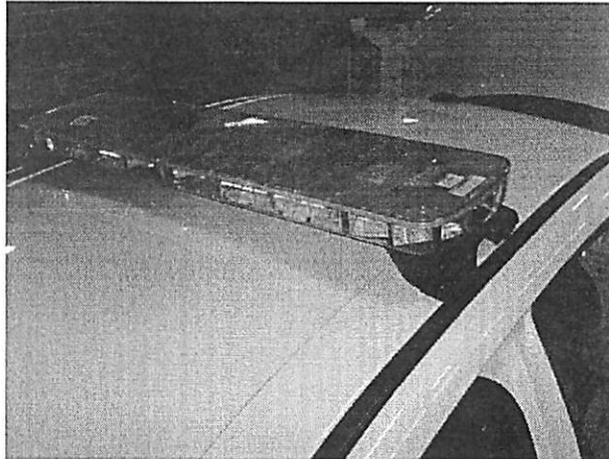
## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Federal Legend Light Bar Installation

Please follow manufacturer's instructions for more details on mounting of the Roof light

**Warning:** Do not stare directly into this light product at close range or permanent damage to your eyesight may occur.

**Notice:** Be sure that mounting hardware is used in this installation.

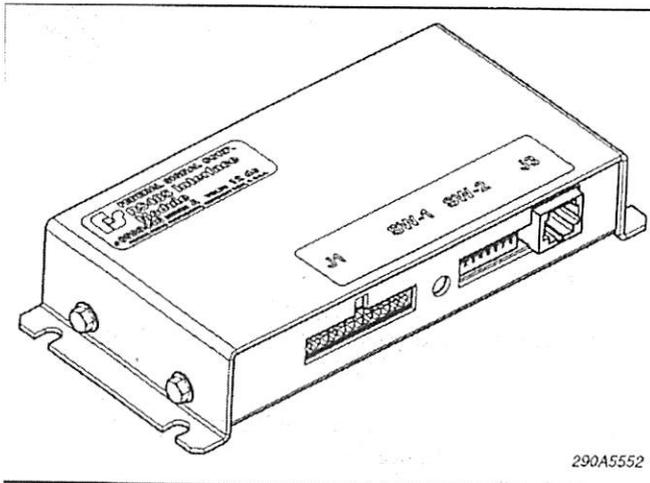


### Testing the light bar

It is recommended that you first test the light bar prior to the installation.

Note: If the Light Bar has not been preprogrammed from the factory and if the programmer is not available to the installer it will be necessary to manually program the Light Bar flash patterns.

**Note:** Legend light bars are factory preprogrammed as of November, 2008.



1. Locate the Legend Serial Interface Module
2. Ensure that the dip switch settings are set as indicated in the chart
3. Plug the CAT5 cable and the 24 pin harness plug into the SIM.

Collect the Serial Interface Module (SIM)-shown- and the 24 pin short harness

SW-2 Switch	Switch Setting	
	UP (OFF)	Down(ON)
1		√
2	√	
3	√	
4	√	
5	√	
6	√	
7	NA use <input type="checkbox"/> Up	
8	NA use Up	



## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Connect the light bar to battery as shown.
2. Apply +12 Volts DC to the Light bar test pattern wire (black with white & red stripe) on the 24 pin harness.  
**Important:** 1A fuse for the white ignition wire and 40A fuse for the red power wire
3. Verify that all LED modules are working.

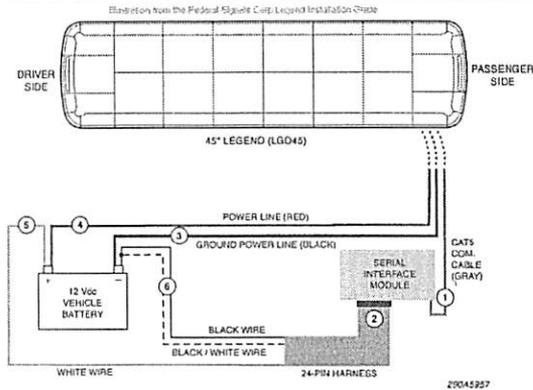
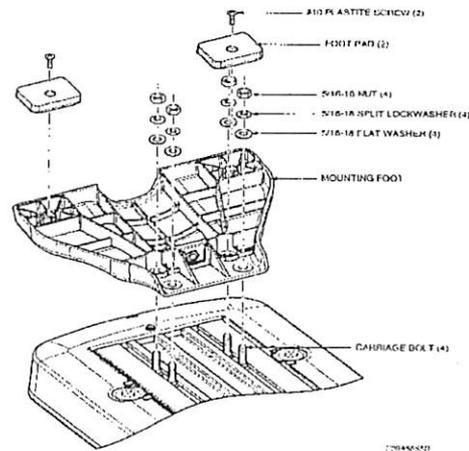


Figure 3.1: Electrical connections for testing and reprogramming

### Installation Procedures

1. Assemble the mounting foot and hardware to the base of the roof bar as shown.
2. Leave the 4 carriage bolts on the roof bar loose for adjustment



1. Adjust the mounting foot position to the measured reference point (D) as shown. (Measurement should be 15")
2. Tighten the 4 carriage bolts.
3. Repeat for other end of roof bar.

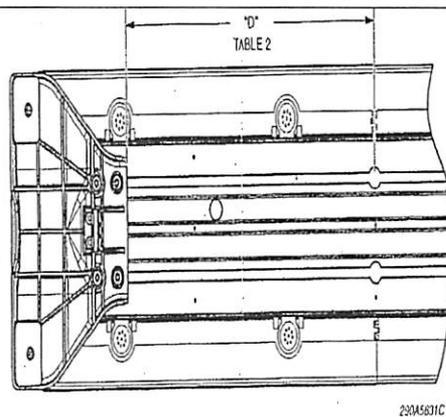
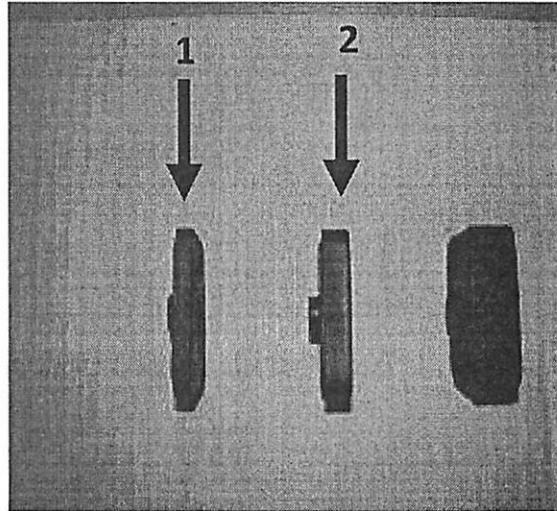


Figure 3: Baseline position "D" for the mounting foot on the vehicle

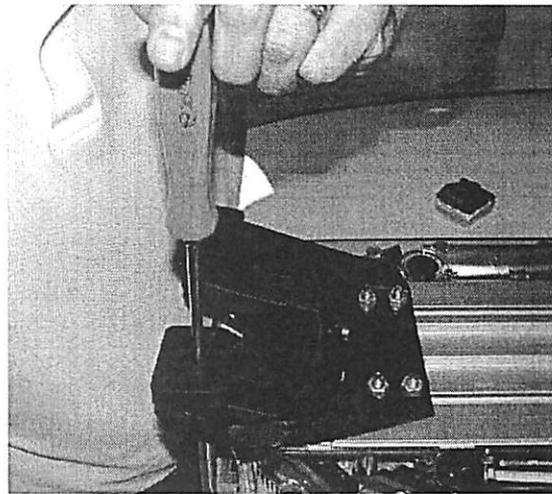


## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Collect 2 of the 0.29" (Front pads) (1)
2. Collect 2 of the 0.44" (Rear pads) (2)



1. Using the 4 supplied # 10 Plastite screws attach the rubber foot pads to the mounting feet as shown.

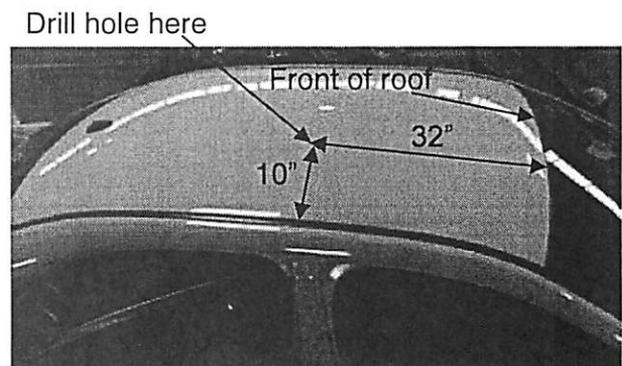


1. Suggested location for hole in roof for light bar connector

**Notice:** Hole size varies depending on roof bar connector.

Measure 32" from the end of the front windshield.

Measure 10" from the inner side of the black stripe located on the passenger side.



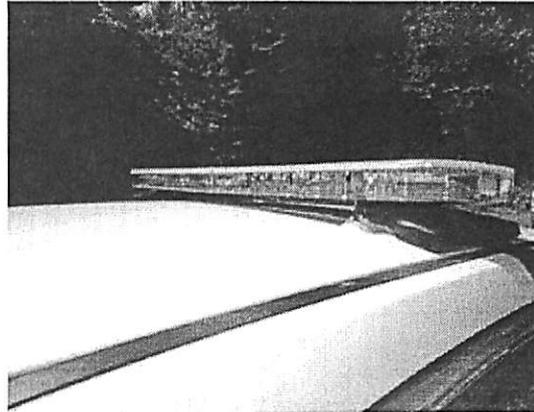


## RCMP Installation Standards 2013 Ford Interceptor Sedan

**Notice:** Heat shrink tube should be used to prevent wind noise.

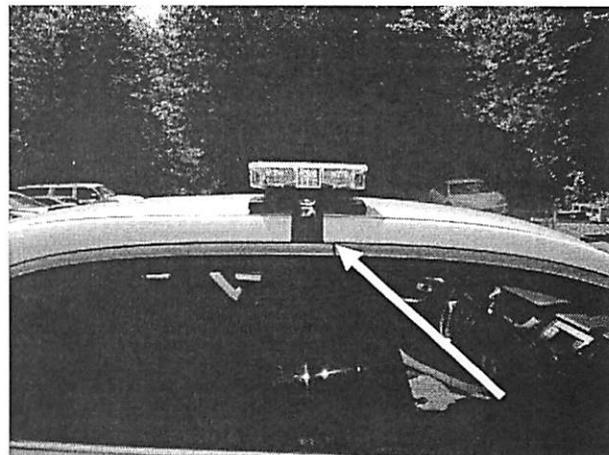
1. Place grommet and shrink tube over cables to base of light bar
2. Route cable through roof hole

**Notice:** Any drilled holes should be deburred, rust proofed and all sharp edges should be smoothed. All wires going through drilled holes should be protected by a proper grommet to eliminate water leakage and reduce wind whistling.

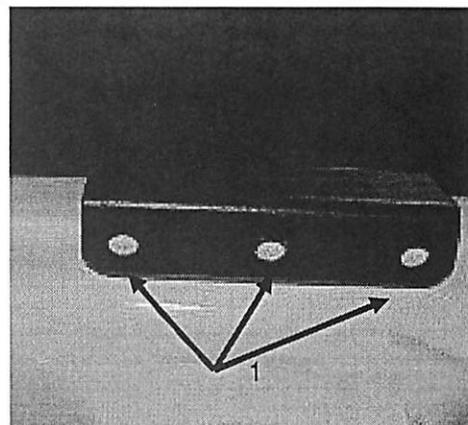


1. Lower light bar onto roof
2. Secure and seal grommet
3. Seal roof panel hole using butyl tape see appendix B for product information
4. Centre light bar mounting hook on B pillar

More road experience will determine if this location is the best for minimizing wind noise.



1. Use the hook assembly as a template to mark the 3 hole locations (1)
2. With a #29 drill bit drill the three holes at the marked locations
3. Apply Rust proofing and silicon around the holes before attaching the hooks.
4. Secure the hook using the 3 supplied #10 thread forming screws as shown
5. Repeat process on other side of roof bar





## RCMP Installation Standards 2013 Ford Interceptor Sedan

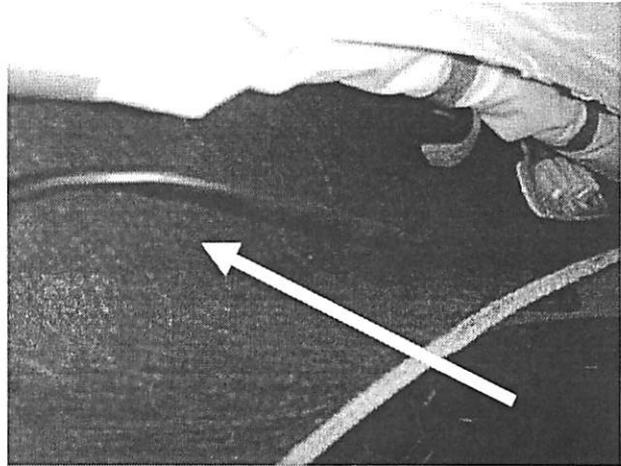
<ol style="list-style-type: none"> <li>1. Assemble mounting hook to roof bar as shown</li> <li>2. Ensure that roof bar is centered on roof</li> </ol>	
<ol style="list-style-type: none"> <li>1. Evenly snug the hook adjustment bolts on each side of the car</li> <li>2. Ensure that light bar remains centered left to right</li> <li>3. Torque both hook adjustment bolts to 4-6 FT-LBS</li> </ol>	
<p><b>Notice:</b> To properly secure the #10 thread forming screws and keeper plates, orient hex head of the hook adjustment bolt as shown.</p> <ol style="list-style-type: none"> <li>1. Install the #10 pan head thread forming screws and keeper plates to prevent the hook adjustment plate from rotating.</li> </ol>	<p style="text-align: center;">NOTE THE HEX HEAD ORIENTATION OF THE 5/16-18 HOOK ADJUSTMENT BOLT</p> <p style="text-align: right;">290A5966</p> <p style="text-align: center;"><i>Mounting bracket attached to three-hole hook</i></p>



## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Light bar cable routing

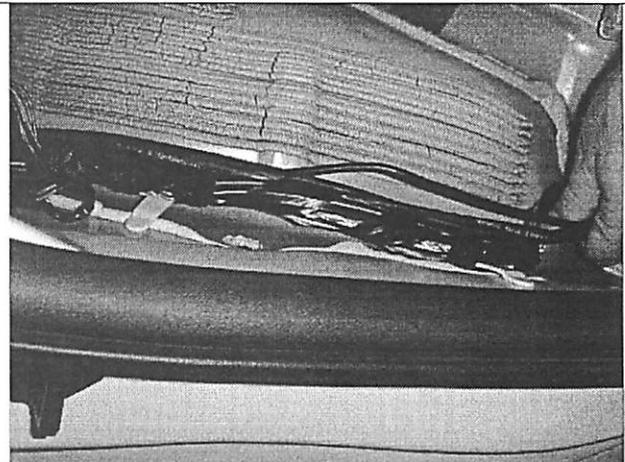
1. Route cables to P/S C-pillar
2. To prevent interference with air bag deployment install 2 cable ties



1. Start to route cable down C pillar



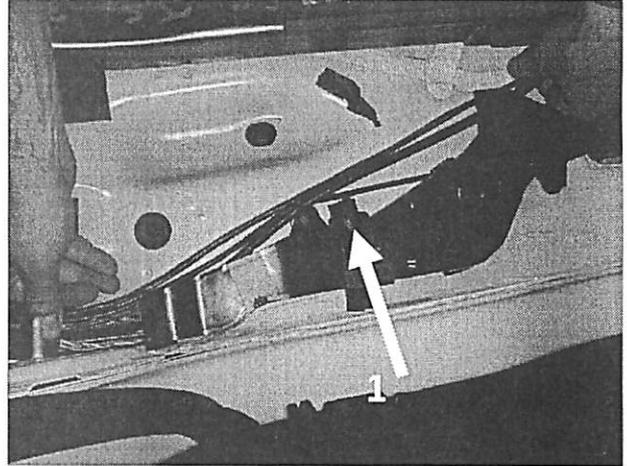
Continue to route cable down C-pillar following harness (Secure with cable ties).



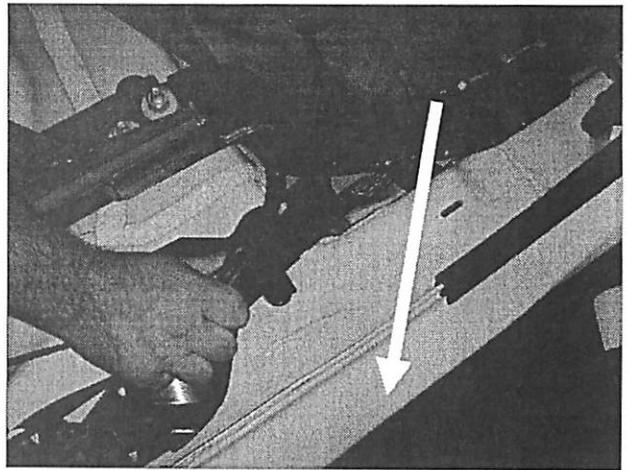


## RCMP Installation Standards 2013 Ford Interceptor Sedan

Continue to route wires along the existing OEM harness and secure with cable ties.



Pass wires under metal reinforce bracket as shown. Route cable to trunk in loom (Securing with cable ties).



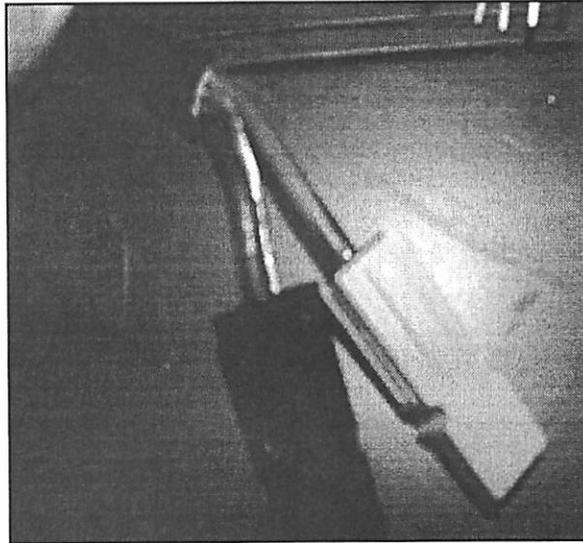


## RCMP Installation Standards 2013 Ford Interceptor Sedan

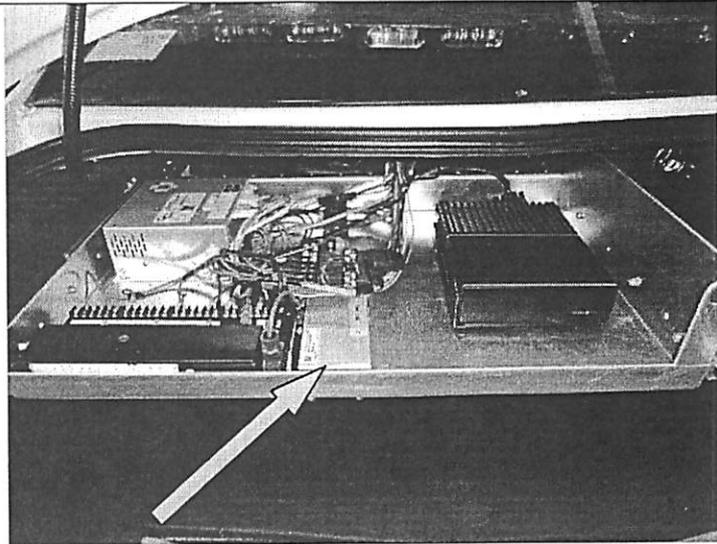
1. Install PDU supplied Anderson connectors on the main power cables of the light bar. Blue to positive

**Notice:** Install rubber bushing on cable in connector.

2. Connect the main power cables to the PDU connectors and ensure that the 40 Amp maxi fuse is installed



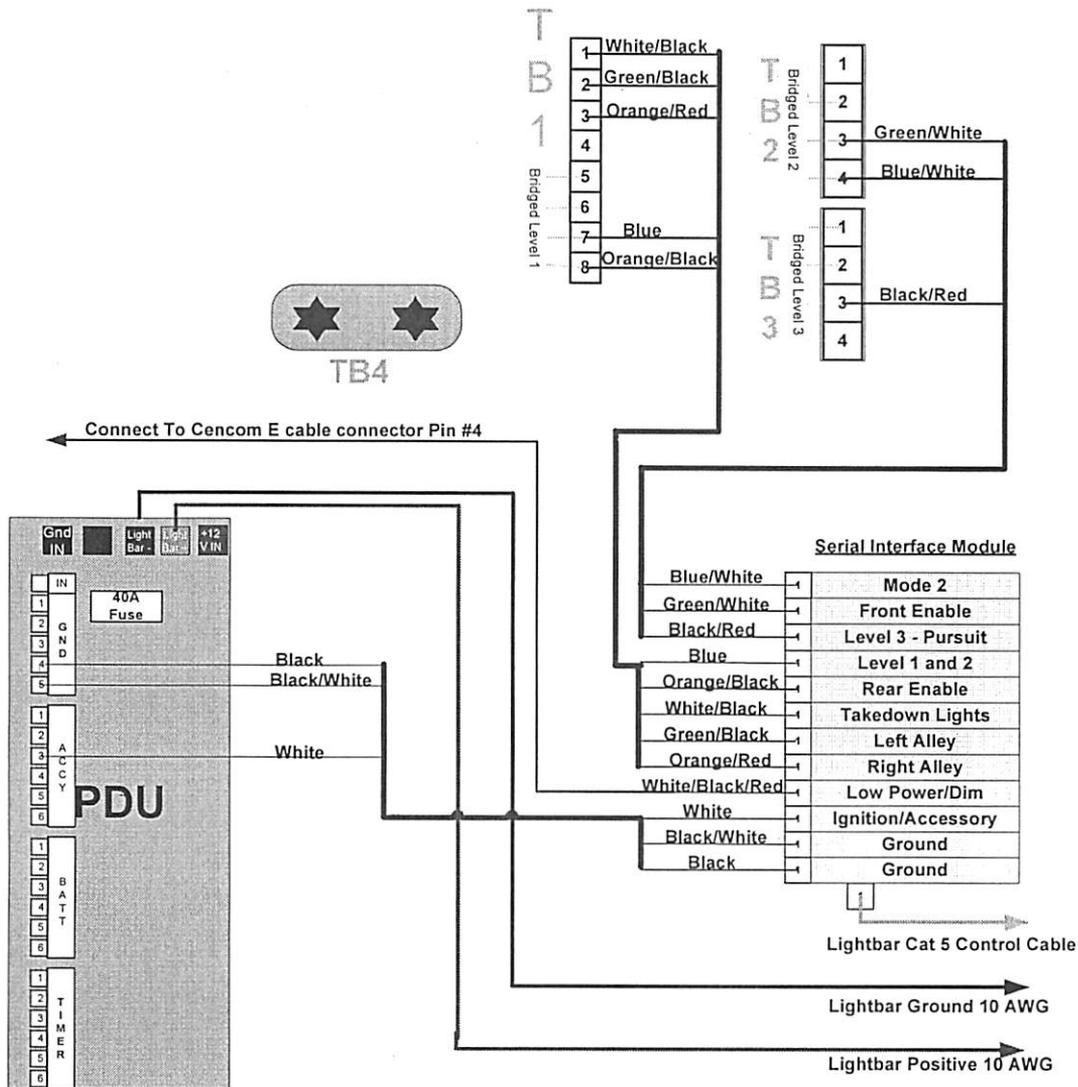
1. Mount Serial Module to trunk tray as shown
2. Connect all light bar wiring as illustrated on wiring diagram, next page





# RCMP Installation Standards 2013 Ford Interceptor Sedan

Diagram – Federal Legend Roof Lightbar Wiring



Federal LEGEND Roof Lightbar Wiring



## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Solaris Traffic Arrow Installation

Required:

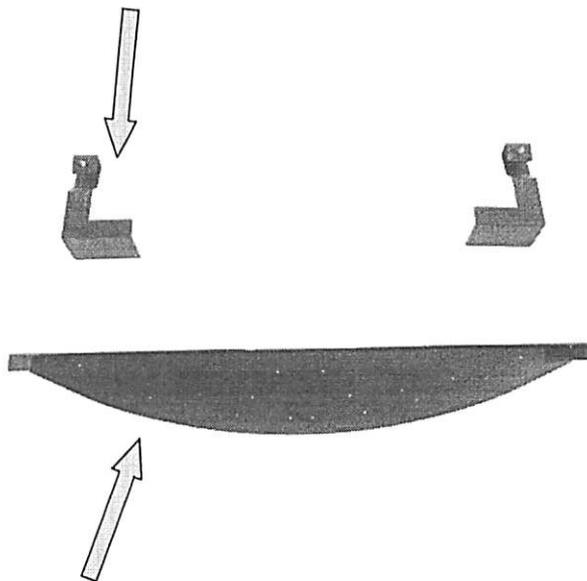
Solaris Traffic Arrow Kit (1)

Crown Traffic arrow retro kit (2)

**Notice:** Retro kit allows the Solaris traffic arrow kit to be installed in the 2013 Interceptor

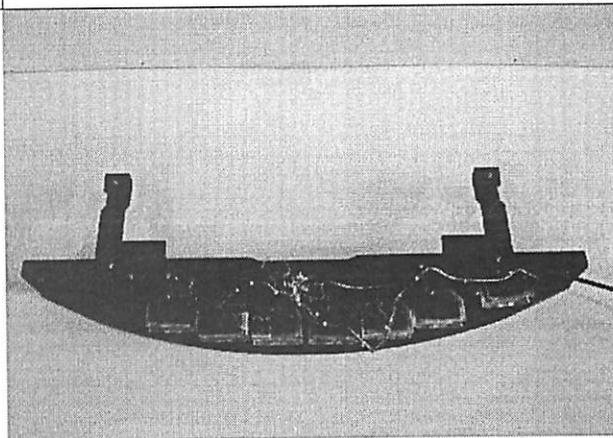
Two Mounting Brackets (as shown)

Shroud for LED modules (as shown)



1. Remove lights from Solaris light shroud assembly and mount to the light shroud from the Crown kit utilizing the same screws.

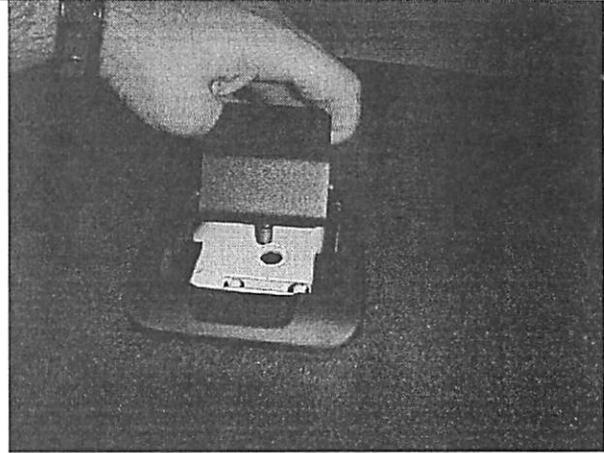
Note: Photo is missing one LED module on far left. Full Solaris traffic will have eight modules.





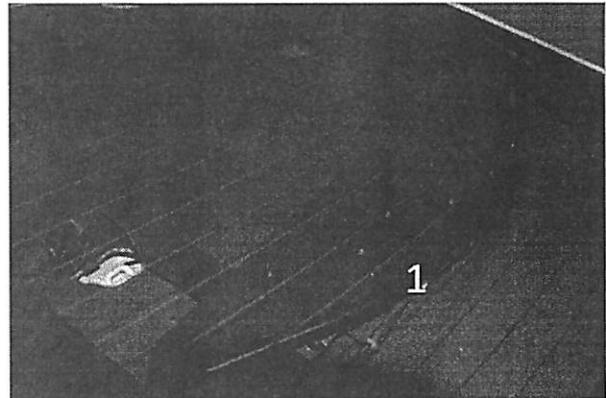
## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Remove cap from child restraint strap holder on the right side.
2. Insert tinnerman nut from the Crown kit into hole in strap holder.
3. Using the 1/4"X20X3/4" bolt supplied in the Crown kit attach child restraint mounting bracket to strap holder.(1)
4. Repeat on left side.

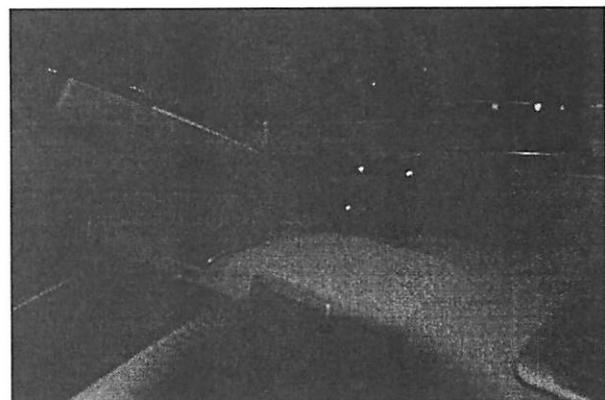


1. Route light cable thru hole in deck to trunk area
2. Place light shroud on rear deck, tight against rear window (1)

**Notice:** Ensure that gasket is in place on shroud to prevent flash back



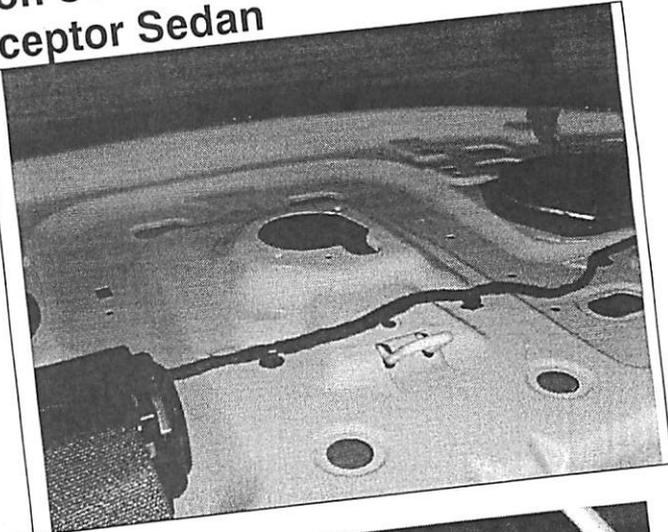
1. Install shroud mounting bracket on right side as shown using 2 Phillips head screws supplied in the crown kit.(1) Repeat on left side
2. Be sure that shroud is fully seated against window before tightening screws





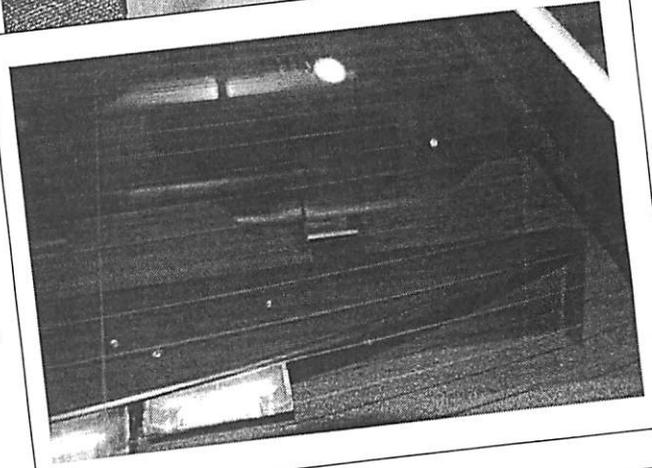
## RCMP Installation Standards 2013 Ford Interceptor Sedan

Use existing hole on deck to route wiring down towards the trunk.



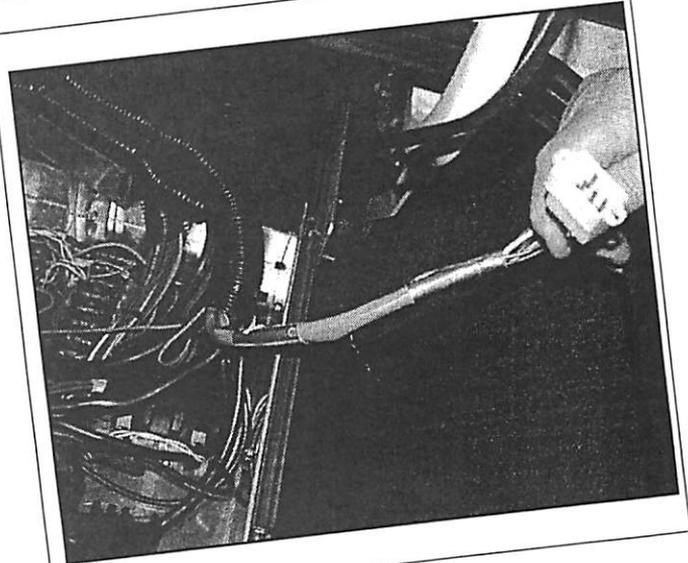
Final assembly.

Note: Photo is missing one LED module on far right. Full Solaris traffic will have eight modules across.



### Traffic Arrow Wiring

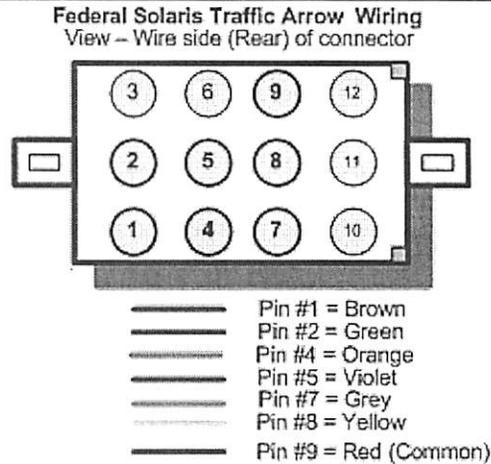
1. Route the cable along path of other cables into trunk tray (enough length to reach Siren control)
2. Remove approx. 10" of the outer jacket and pull out the Whi/Orng and Whi/Grn wires (rear flashers)
3. Cover the cables again with the section of jacket previously removed.
4. Tie wrap to underside of speaker bracket to prevent catching on sliding trunk tray.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Insert pins in connector plug as indicated in the following diagram
2. Connect the Whi/Org wire (Rear Flashers) to TB1 – 4
3. Connect the Whi/Grn wire to TB4 ground.





# RCMP Installation Standards 2013 Ford Interceptor Sedan

## Kustom Signals DIGITAL EYEWITNESS Video System Installation Instructions

It is recommended that the installation instructions supplied with the Digital Eyewitness system are followed. These instructions assume the use of an overhead console for viewing and control with a vaulted DVR, as per the expired standing offer. Below are additional details to augment these instructions, section by section in the same order as the Kustom Signals **Installation Instructions**. The Checklist at the end of the Kustom Installation Instructions should be completed and sent to:

R. Nicholls program coordinator, Donna Fraser, via email at [donna.fraser@rnicholls.com](mailto:donna.fraser@rnicholls.com) . It can also be phoned in at 905-670-4000, extension 3 or fax number 905-670-0670

This checklist information including the Vault serial number will assure that the warranty will commence on the installation date not on the delivery date.

At the end of these installation instructions are the recommended programming settings for configuring the system and a convenient Reference User Guide.

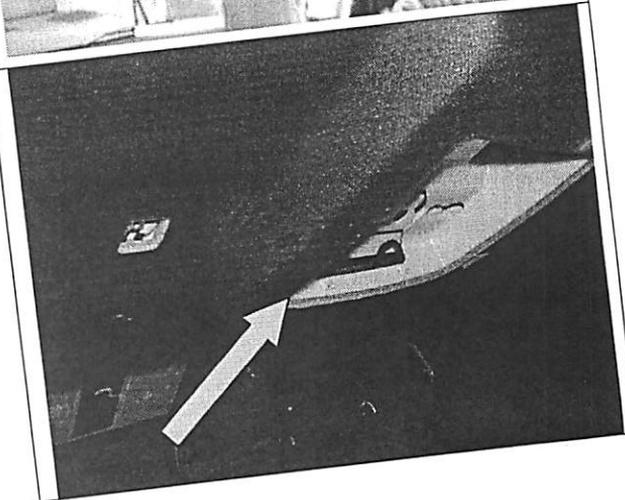
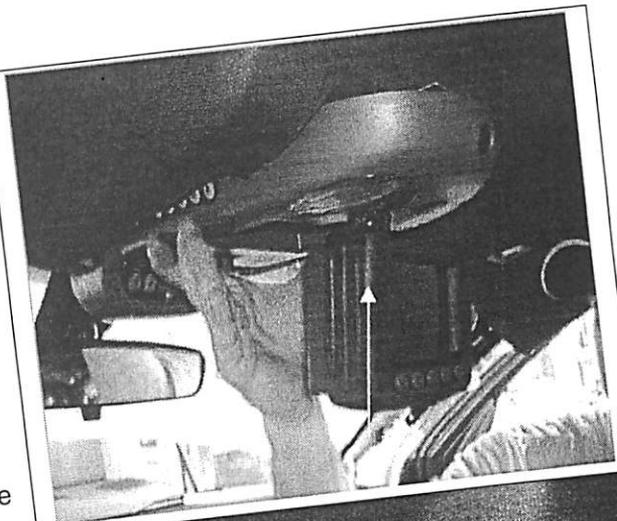
### General :

The Interceptor install utilizes the existing mounting system from Kustom Signals, with the addition of a specific R Nicholls (distributor of Digital Eyewitness system) Video Mounting plate (P/N 050-1933-00)

Refer to Appendix M Video Overhead Mount Assembly Drawing for more details of this Mounting plate and instructions for installation.

Interior lamp is relocated and headliner is cut, including brace  
Cabling is routed under headliner to overhead console and camera/wireless mic base station.

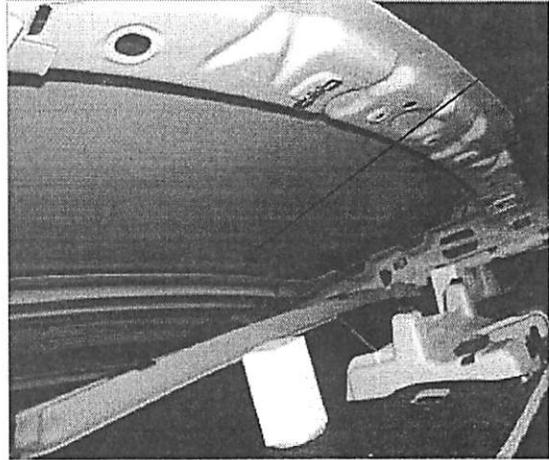
Cut Front brace and slit the headliner



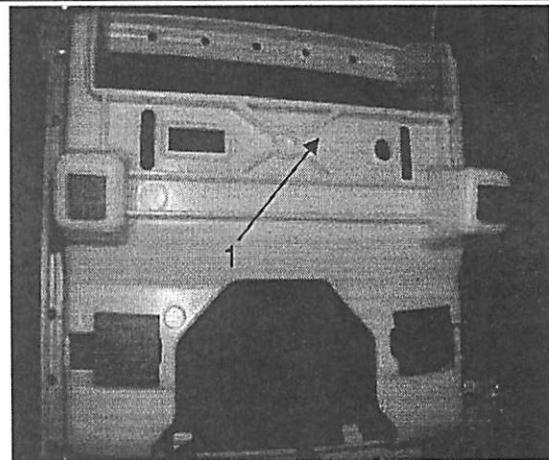


## RCMP Installation Standards 2013 Ford Interceptor Sedan

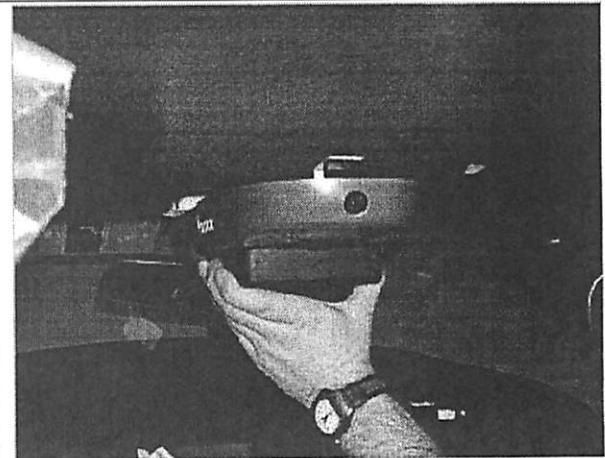
Attach the two hooks on the front of the overhead unit to this metal lip (1) through the map light box



Drill hole for mounting bolt in this location (1)



Marks show where the headliner will have two slits cut so that it can be folded up in to the cavity and then folded back down, glued, and touched up for resale.



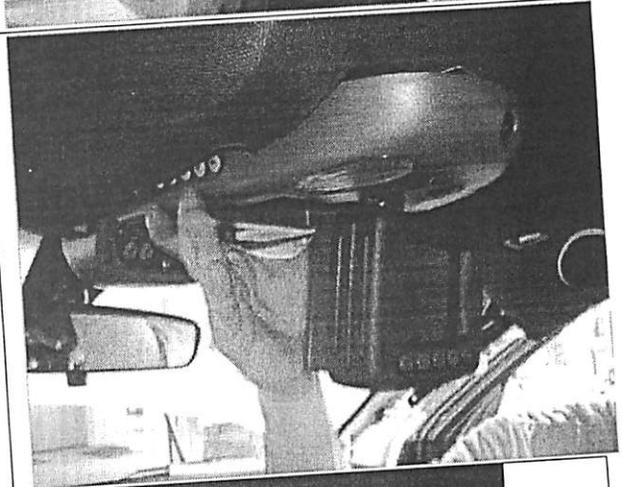


## RCMP Installation Standards 2013 Ford Interceptor Sedan

Shown is where the two front hooks on the OH unit hook into the lip on the front sheet metal after the brace is removed on the front of the map light mount box. Headliner is slatted and folded.



Unit as what it would look like after install. With bolt adjusted for height and level and tightened using the two nuts.



### Cable Installation

1. Power cable: Ground vault end of Drain wire (Ring) if RFI experienced on Video system from other sources. Do not ground far end of Drain wire. Drain is not grounded in this photo.
2. Do not plug Power connection into vault until ALL remaining cabling is complete first.

NOTE: Camera 2 is the Rear Facing Camera

Aux1 is the Wireless Mic base station

Note: Care must be taken with AUX1. Pins bend easily if not inserted correctly.

ICM is In Car Microphone

Note: ICM cable mounting bracket is missing in this photo.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Accessory Cable and Video Power Cable

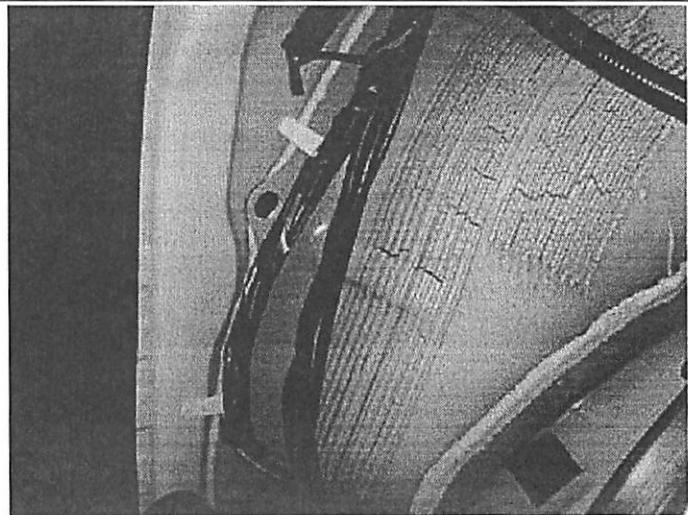
1. Connect Power Red and Black to PDU
2. White Environmental wire goes to Ignition (Accessory on PDU). Add 3A fuse
3. Blue (Brake) can be T into White/Green at right tail lamp harness.
4. Red (Light) on TB1 (Level 1) from Cencom at trunk tray
5. Orange and Green (Siren) can be T into Grey and Grey/White on Phoenix harness at trunk tray
6. Add 15A fuse to Video Power on PDU.

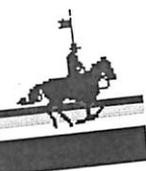
See diagram on page 53

### Running Cables

1. Assure adequate service loops for all cables leading to the rear of the vault for tray action.
2. Rear seat back and seat should be removed to allow cable running
3. Control Head cable, Rear Facing Camera, and Wireless Mic, up C pillar to under roof liner. Photo shows cable leaving C pillar PS to sill plate. This is also an acceptable routing.
4. Power cable to PDU area
5. Accessory cable to PDU area  
In Car Mic under rear deck to anchor bolt.

**Note:** Route wires in manner not to impede or restrict air bag deployment if under roof liner.





# RCMP Installation Standards 2013 Ford Interceptor Sedan

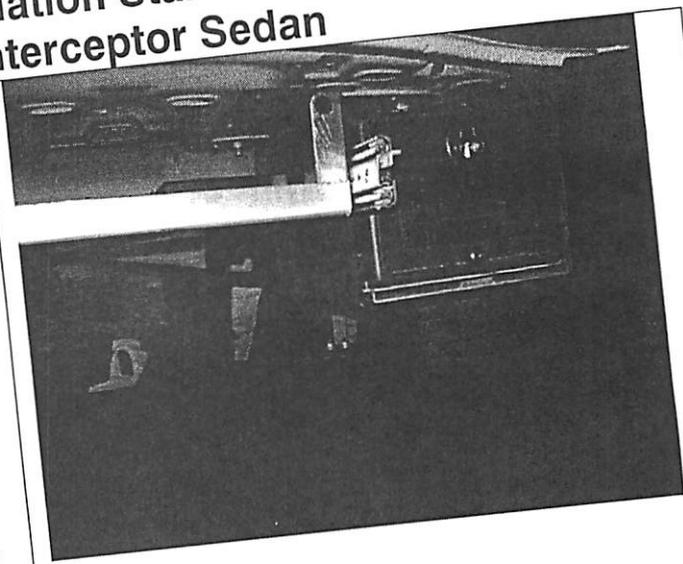
Video vault mounting location (4) if applicable.

Recommended mounting hardware:

- PDU-1/4x20x3/4 Hex head screw (facing Towards the left)
- Siren control-1/4x20x3/4 dome head screw (Facing towards the rear)
- Serial interface module-10/32 Machine screw (Facing towards the left)

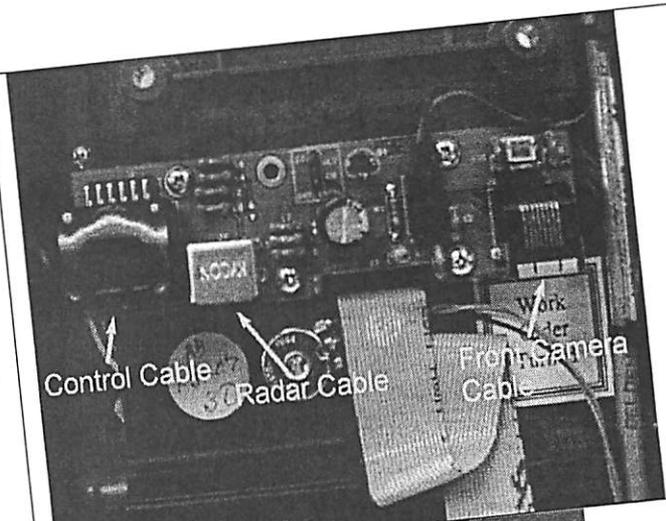
Screw 'facing' orientations should minimize interference between components.

NOTE: If no video vault is required, this shelf area can be used for radio repeaters, ALPR or other equipment.



Run Cables to Overhead Console Area:

1. Run Control Center Cable (1), and Wireless Mic cable (3), from rear seat area, along pillar, under roof liner to console area. Leave service loops of 12inches extra at roof liner.
- Connect Control cable (1), Radar Interface Cable (2) (if required) and Front Camera Cable (4) to console before mounting console to mounting bracket.



Secure Overhead Console:

1. Use front hooks on console (towards windshield) to align with console bracket
2. Do not pinch cables while securing console with 4 supplied screws. Do not over tighten





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Rear Facing Camera

1. Mount rear facing camera on passenger side of vehicle, on front side of clear plastic (not prisoner side).
2. Adjust camera position to include maximum view of prisoner area. This will be verified when operating system after installation.
3. Clean clear plastic partition wings.
4. Connect Rear Facing Camera cable from roof liner location.

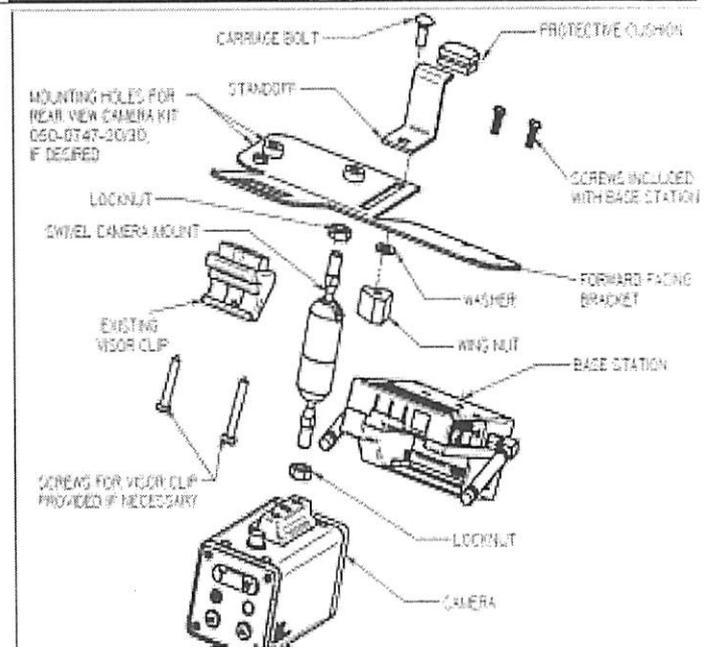


### Front Camera and Wireless Mic Base Station:

1. Follow Wireless Mic installation instructions.
2. Plug in wireless mic cable to docking station
3. Remember to use supplied desk battery charger (not base station in vehicle) to charge the wireless mic before use.

Note: Visor clip mounting plate for camera and microphone base station is from the Crown Vic mounting system.

Adjust pivots to locate camera towards driver side, behind wireless mic dock and forward towards windshield to be outside the airbag deployment area.  
Plug in Front Camera Cable





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### In Car Microphone (ICM):

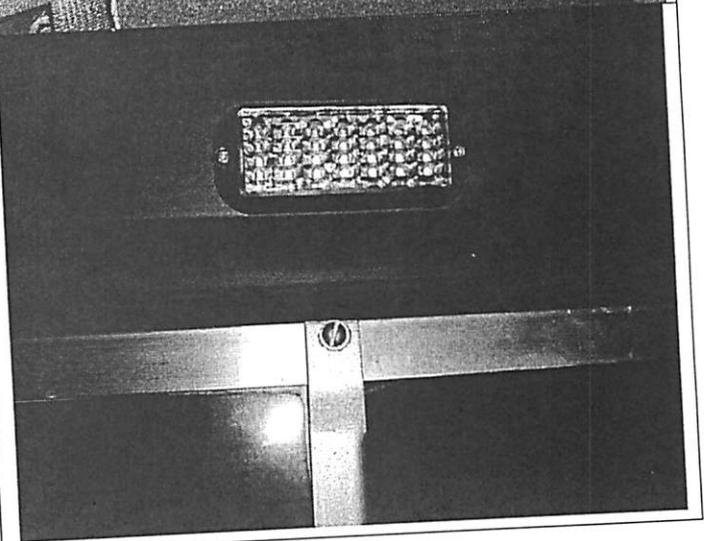
1. Locate in Car Mic in the child seat restraint anchor location on back set deck. Do not cover ICM with the plastic cover as this will affect audio performance. Photo shows cover in the up position. Discard cover.
2. Follow supplied ICM instructions
3. Remember to use cable bracket at the vault for the In Car Mic cable. This will help minimize intermittent connections.



### Prisoner Compartment Light

This additional LED light source is to aid video capture in low light conditions and general supplemental lighting in the prisoner area.

1. Fix LED light to (top) center of prisoner partition.
2. Power through the 'Spare' wire (White) from the Phoenix cable (Cencom 'AUX' button). Max current is 250mA.
3. Utilize Ground from Shotgun Release.
4. Replace Cencom AUX. button label to "INT" (for Internal light) on control head for this function.



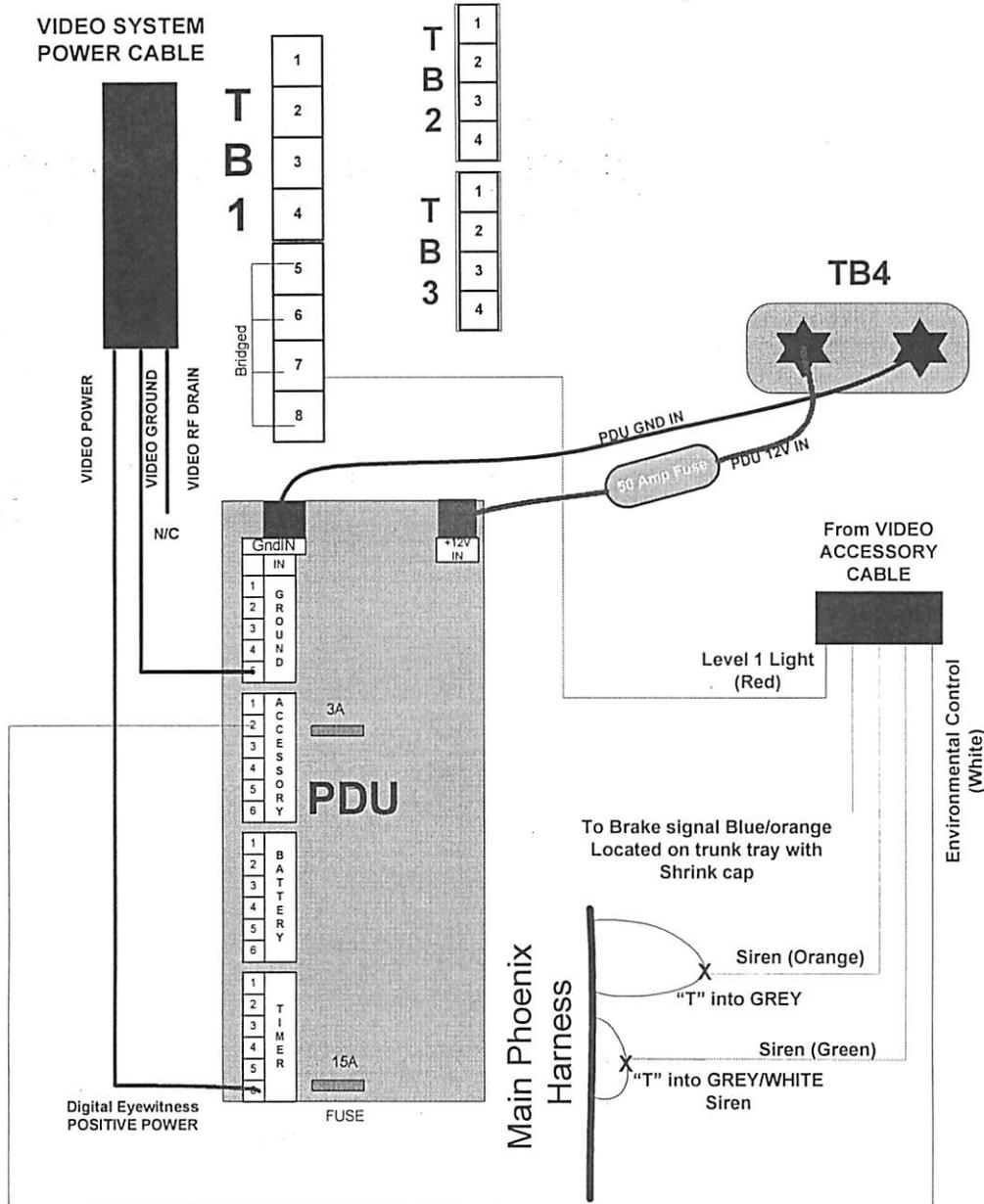
### Configure and Test

When following the vendor supplied configuration guide, program the settings recommended in Appendix G Digital Eyewitness Programming and Maintenance Info Table 1 Recommended Settings.

To aid in user operation, see Appendix H Quick User Guide and Appendix I DVD RAM Setup Guide.



# RCMP Installation Standards 2013 Ford Interceptor Sedan



Digital Eyewitness Wiring Details

Digital Eyewitness Wiring Details



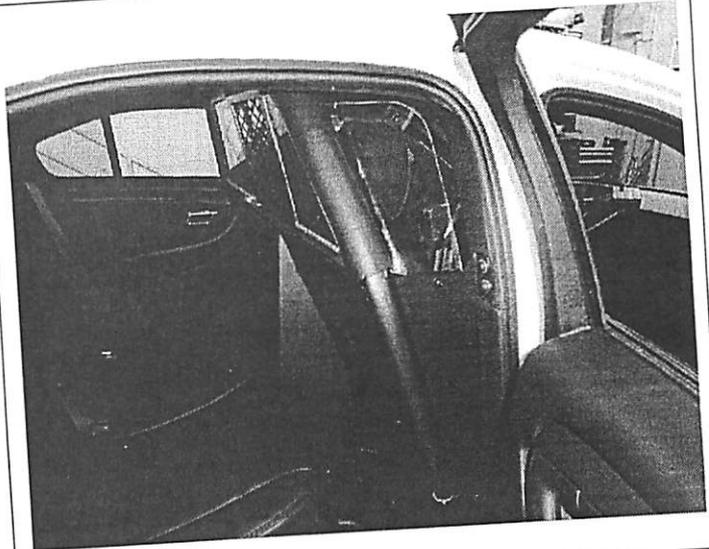
## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Prisoner Shield installation

This partition is typically the last item installed in a police cruiser. Please follow manufacturer's instructions for the installation of this shield.

The partition is ordered with a set back or 'space savings' feature called a recessed panel to facilitate easier access to the vertical shotgun mount between the seats.

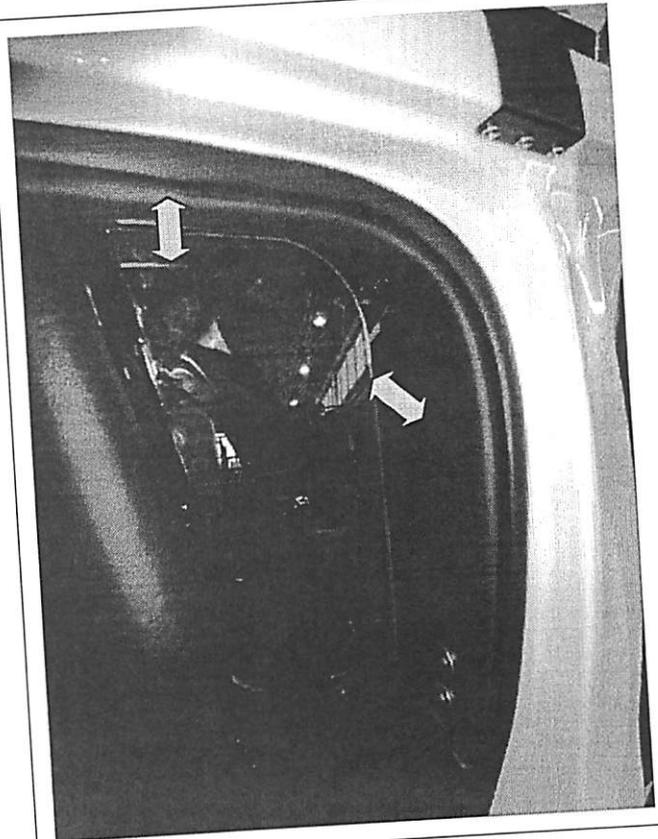
**Notice:** Route gun lock wires prior to mounting shield (Gun rack will be the last item installed) These wires are looped on C pillar driver's side behind seat.



### Side Curtain Wings

Due to side curtain airbags operation, a one inch clearance must be kept between the clear plastic side wings (non side curtain compliant wings) and interior vehicle surface. The side wings must be trimmed to keep this clearance.

Standing offer for Partitions will include these panels already trimmed to proper spacing.

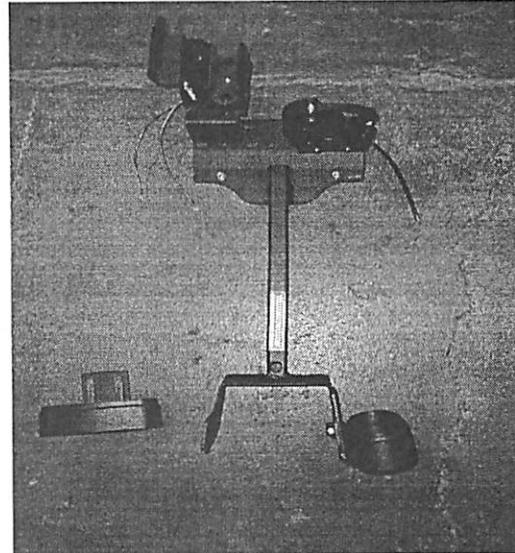




## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Single Shot Gun Rack

1. Shown is a Setina dual weapon rack though RCMP will only be using the left (passenger side) mounted shot gun lock.
2. Follow Manufacture supplied installation instructions.

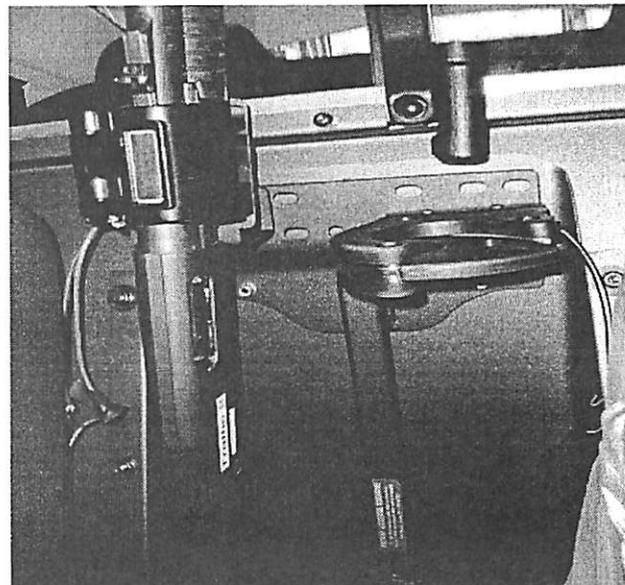


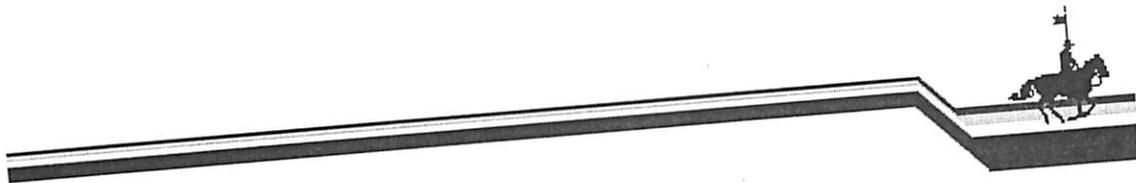
### Shot Gun Rack

1. Locate solenoid wires (Gun lock HI/LO – blue)
2. Route these wires out of the rear of the console at the floor
3. Splice these wires the gun lock input wires

**Notice:** All exposed wires are to be loomed and clamped to mounting screws to eliminate interference access the weapon.

Note: Photo shows optional universal gun lock attached on driver side of mounting plate. Shot gun lock is on passenger side of mounting plate. The universal gun lock is not standard for the RCMP installation.





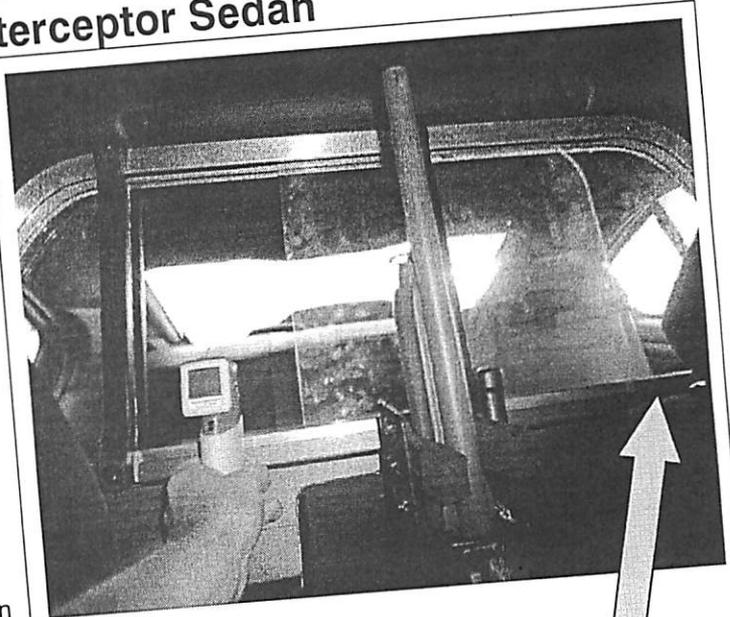
## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Reuse of Existing Shotgun Racks

Existing shotgun racks such as Big Sky can be used with modifications to the rack mounting plate and the addition of the Vertical Mounting Brackets. See Orderable Equipment Appendix for details

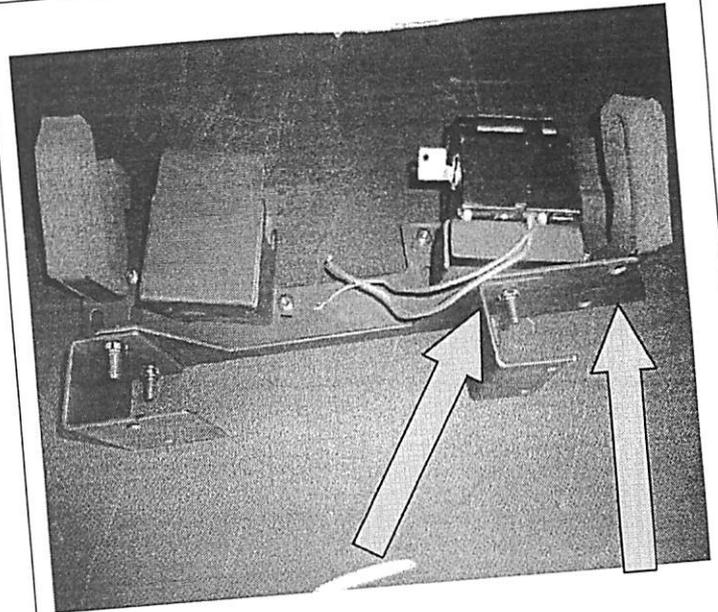
It is recommended by Use of Force that the sliding partition window be limited to how far open it can be slid in order to have some level of restriction to weapon by the occupant of the rear seat, while still allowing use of INTOX meters through the remaining opening.

Window openings can be limited by screwing in a 'stop' screw into the window slide area (1)



Big Sky rack with Vertical mounting brackets installed.

Note: New location of mounting holes in the rack to allow the Vertical Mounting Bracket (upper) to drop down approx 3 inches from original holes. This allows the rack to hold the shotgun at the correct height from the ceiling and floor.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

**Level 3 Procedures. THIS SECTION IS TAKEN FROM THE CHARGER MANUAL AND REQUIRED UPDATING FROM MCS DEPARTMENT.**

### Radio System Procedures

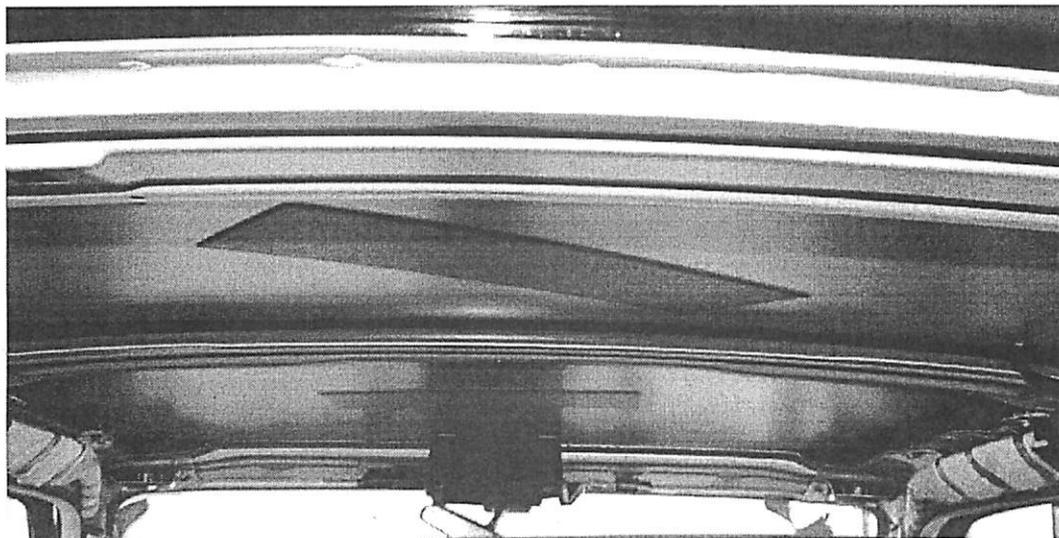
#### Antenna Installation

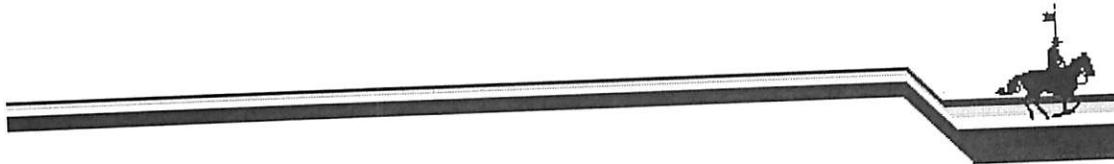
There are up to 5 antenna hole positions available on the 2013 Ford Interceptor with 2 roof pattern configurations to choose from. Total number of antennas, current and future should first be determined, followed by a careful planning of the layout (choice of hole positions) on the car. Basically there are three types of antenna you would be required to install:

1. Receive only antennas; GPS
2. Low power transmitter/receiver antennas; Cellular Telephone, Wireless modem, CB radio
3. High power transmit/receive antennas; Two-way radio

Particular care must be taken in arranging the position of the high power (two-way radio) antenna. These antennas should not be mounted on the trunk lid or next to one another. This planning should be approved by the radio workshop prior to installation.

The following picture provides a view of the underside of the roof panel:

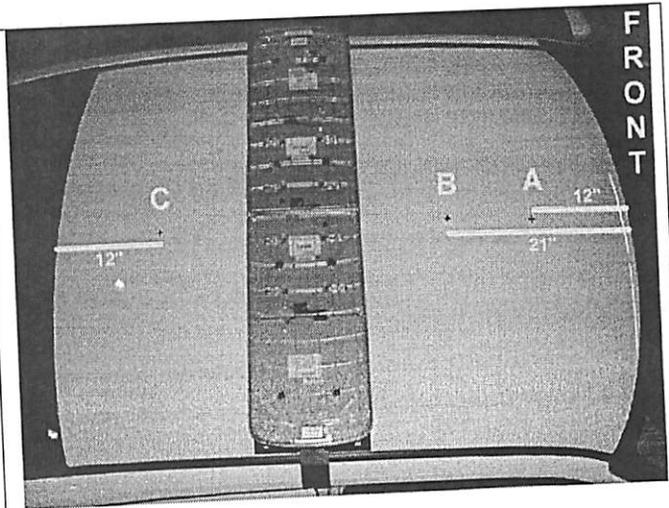




## RCMP Installation Standards 2013 Ford Interceptor Sedan

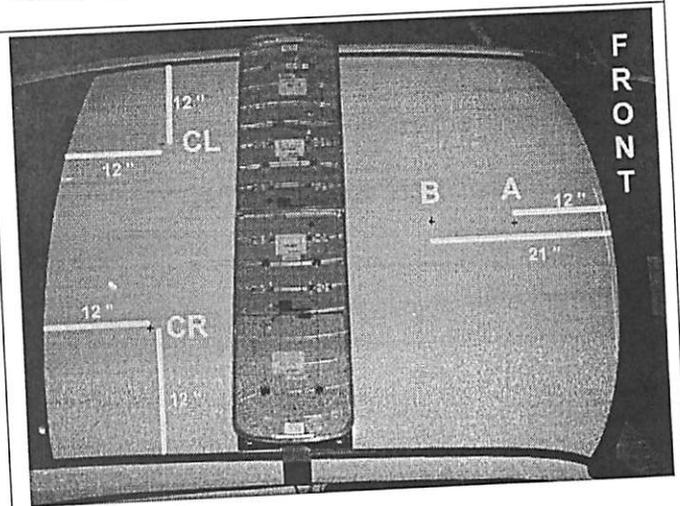
### 3 Antenna roof hole pattern

1. Place hole 'A' 12" from roof front edge.
2. Place hole 'B' 21" from roof front edge.
3. Place hole 'C' 12" from roof rear edge.

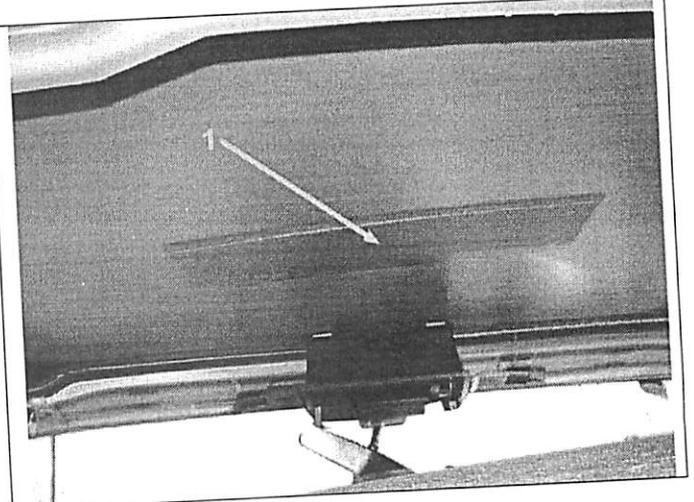


### 4 Antenna roof hole pattern

1. Place hole 'A' 12" from roof front edge.
2. Place hole 'B' 21" from roof front edge.
3. Place holes 'CL' and 'CR' 12" from roof rear edge and 12" from roof side edge on D/S and P/S.



**Important:** Two of the antenna hole positions (B & C) have an adhesive liner on the underside of the roof panel (1). Once the antenna hole is drilled the area immediately surrounding the hole will have to be cleared of this material to provide a proper ground to the base connector.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Antenna Hole Saw

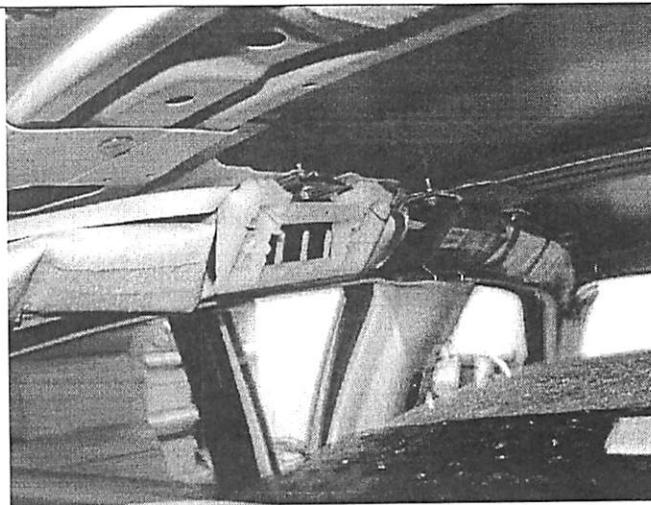
Antenex 3/4 #D377495

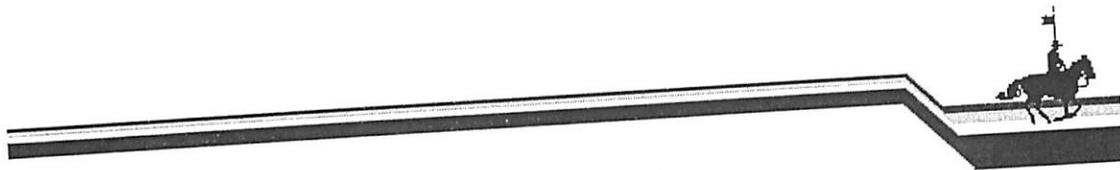
OR

HSK -19(Ripley Tools)



**Important:** The Ford Interceptor is equipped with front and rear side curtain airbags. Every effort must be taken to ensure that any cables routed in the roof or pillar areas are clear of the air bag deployment zone. Refer to the police supplement guide for specific details.

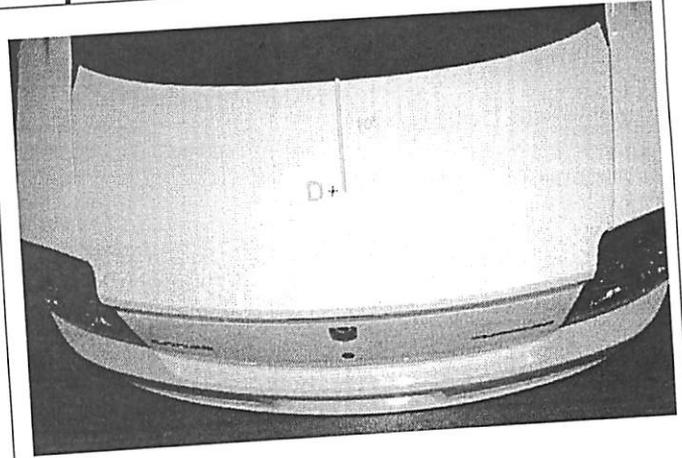




## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Trunk lid Antenna hole pattern

1. Place hole 'D' 10" from front lid edge.

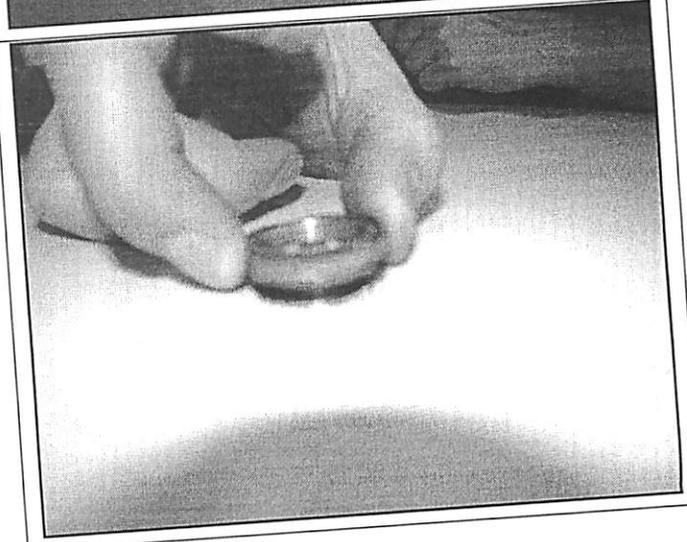


1. Lubricate "O" ring seal and insert in nut ring.



1. Place nut on base and tighten 1/2 turn.
2. Insert base in hole.

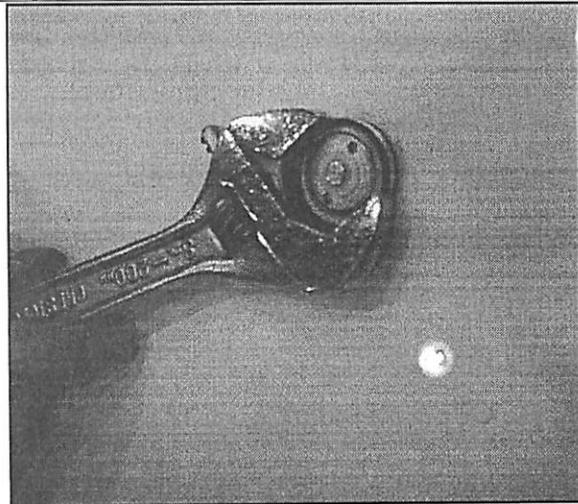
**Important:** Ensure shoulders of base are aligned with underside of hole.



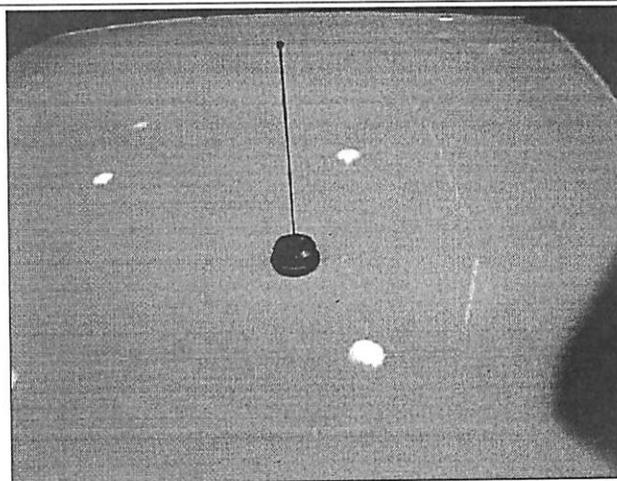


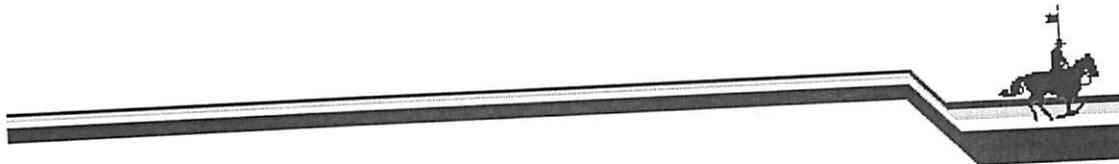
## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Tighten with wrench until snug.
2. Route two-way radio cable loosely to P/S 'C' pillar and into the trunk following the radio head cable into trunk tray.



1. Install antennas as directed by radio workshop.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Wireless Modem Installation

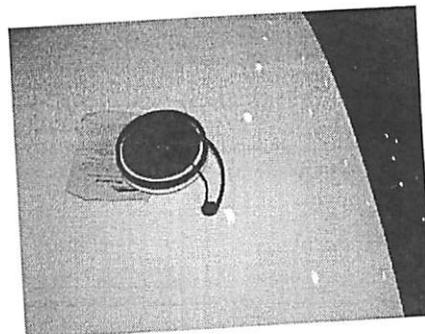
#### Notice:

The example in this instruction is for a Sierra MP595 wireless modem with multi-band dome antenna. Other versions of modem are used and this instruction should apply to most models.

- GPS antenna, or combined GPS/Cellular/PCS antenna to be located in antenna position 'A'
- If using a 2<sup>nd</sup> antenna for cellular/PCS consult with radio shop for best location.

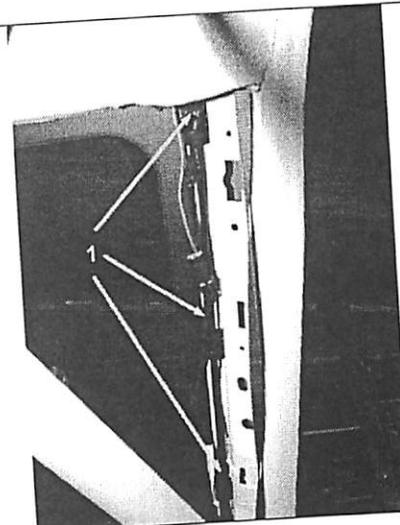
1. Drill hole as required for your model of dome antenna, typically hole 'A'.
2. Mount antenna to roof as per manufacturer's instructions.

**Important:** Proper adhesion is critical - do not place upward pressure on cables for at least 15 minutes-use sustained firm pressure to set the adhesive. See MCS Tech bulletin #06-02.



1. Use tape to secure coax cable to the roof after completing the antenna installation
2. Route the 2 coax cables down the P/S 'A' pillar using the cable clamps on the pillar as shown. (1)
3. Pass ends through the opening between the dashboard and 'A' pillar.

**Important:** Avoid running coax cable in parallel with any air bag wiring (yellow jacket).



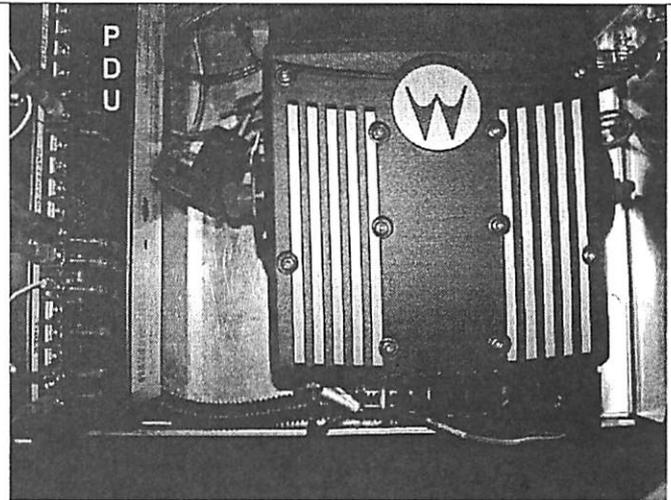


## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Transceiver Installation

**Notice:** Various transceiver models may require different positioning due to front and rear connectors. Please consult with radio workshop for best fit. The transceiver may be better positioned on the left side of the trunk tray partition if the space is not being used for other equipment.

1. Mount transceiver on trunk tray.
2. Install control head cable, antenna connector and cable and remote speaker cable if/as required.
3. Power to be fused and connected as directed by Radio Workshop.



1. Route the antenna cable down the 'C' pillar to meet up with the vehicle harness bundle. Route the antenna cable in loom to the radio on the trunk tray following the cable bundles. (1)

**Note:** May need to enlarge hole for Harris radio cable due to large connector.

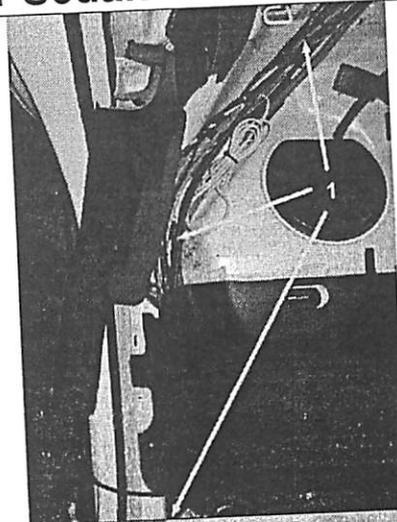
2. Route the radio control head cable and speaker wire (if required by model) in loom along this same cable path. (1)



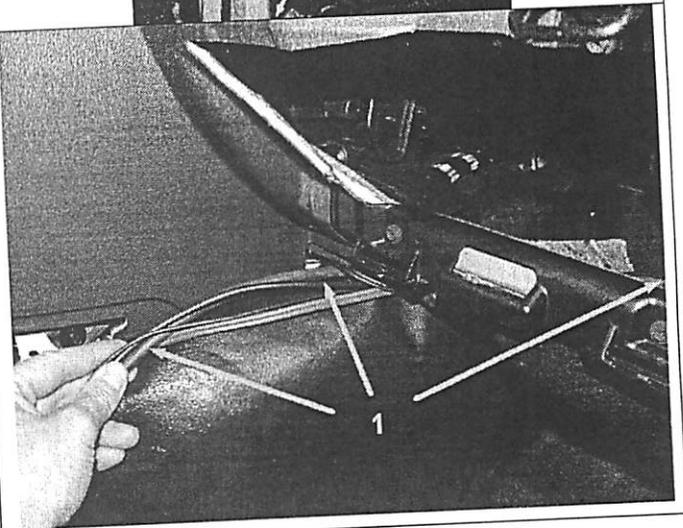


## RCMP Installation Standards 2013 Ford Interceptor Sedan

1. Continue the radio cable routing as indicated. (1)



1. Continue radio cable routing along the P/S of the vehicle following the main harness path. At the base of the 'A' pillar collect the Modem antenna cables and route all cables as shown. (1) Modem antenna cables and speaker wire can be routed to the console area. Radio control head cable can be set aside.



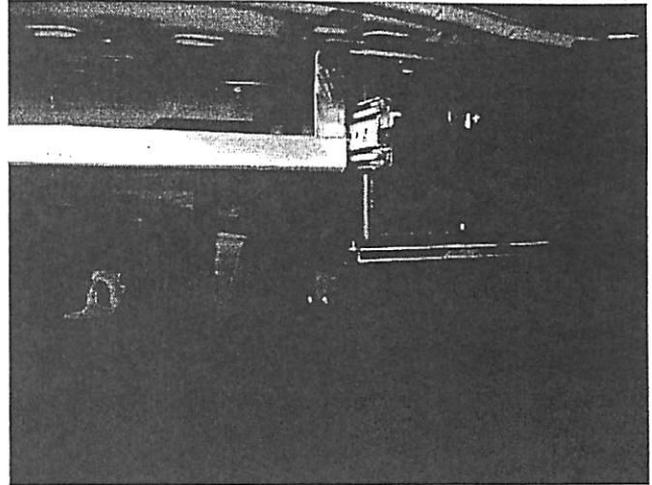


## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Vehicular Repeater

The Vehicular radio repeater can be mounted on the trunk tray in place of the In-car video vault. This photo shows the Vault DVR for the Digital Eyewitness video solution on its trunk shelf.

Follow radio workshop directions for installation of your specific model.



### Radar

The RCMP uses several radar models. Please refer to manufacturer's installation guide for detailed instructions for the model being installed. The control head of the device is to be mounted to the dashboard using approved Velcro product. See Appendix B

Front antenna should be mounted as close to the D/S A Pillar as possible allowing 110 degrees of swivel. Use a glass mount bracket or the manufacturer's bracket ensuring that the antenna itself is not grounded via the mount. Rear antenna can be mounted using the same universal glass mount or the manufacturer's ground isolated mounting bracket.

**Note:** Undesirable operation may result from the radar antenna being connected to vehicle ground.

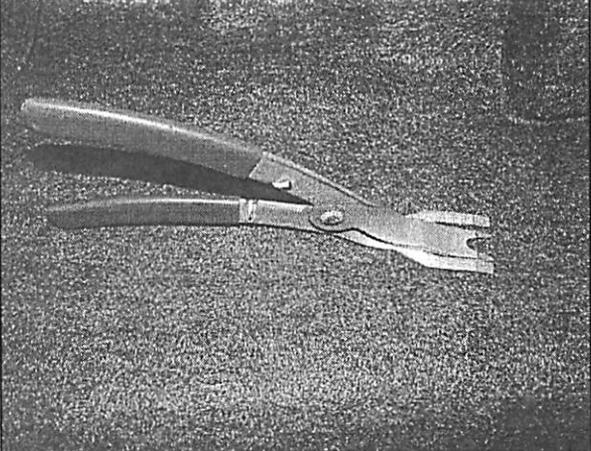
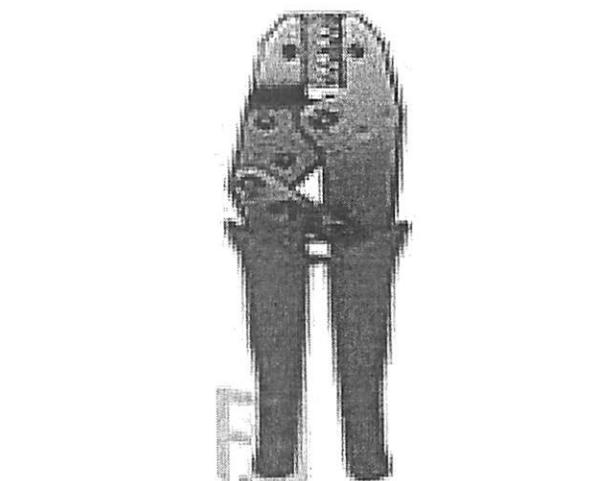
Power for the radar is to be connected to the timed power source.





## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Appendix B Specialized Tools

<p>Panel Retainer Removal Tool Bluepoint YA331 (Princess Auto)</p>	 A pair of long-handled pliers with a curved, notched end, used for removing panel retainers.
<p>Antenna Hole Saw Antenex 3/4 #D377495 OR HSK -19(Ripley Tools)</p>	 A hole saw bit with a serrated edge, used for drilling holes in metal.
<p>Crimping tools required:</p> <p>A- To crimp relay terminals; Packard P/N: 12085271 Phoenix P/N: 150-12085271</p> <p>B -To crimp waterproof connectors for strobes; Packard P/N: 12014254 Phoenix P/N: 150-12014254</p> <p>C -To crimp spade terminals; Molex P/N: 64003-0100 Phoenix P/N: 120-64003-0100</p>	 A large, heavy-duty crimping tool with multiple dies and handles, used for crimping various types of terminals.



## **RCMP Installation Standards 2013 Ford Interceptor Sedan**

### **VELCRO**

The recommended specification for Velcro used to mount equipment to the plastic panels and dashboard of the car is:

**LOOP # 1000, HOOK # 65/88**

Adhesive for PVC found on dashboards water based #0175.

### **BUTYL TAPE**

The recommended product for sealing the light bar roof hole is PRO FORM 3/8" x 15' square tape part number PF413 or equivalent. Available from Pro Form Products, Milton, Ontario.



## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Appendix C RCMP Wiring Harness Description Chart

TB1A = Terminal strip for Siren Controller interfaces  
 TB1B = Terminal strip for slide switch output 1  
 TB2 = Terminal strip for slide switch output 2  
 TB3 = Terminal strip for slide switch output 3

Connection path	Label	Wire Function	Wire Color	Wire Gauge
Main Breaker to trunk tray battery post Positive	N/A	Battery Positive	Red	4 awg
Aux Battery to Main Breaker	N/A	Battery Jumper	Red	4 awg
Aux Battery to trunk tray battery post ground	N/A	Battery Ground	Black	4 awg
TB2-1 To front	FRONT LED TRG	Front LED (Strobe) Trigger with fuse holder 3A at trunk	Pink	18 awg
SL Siren Speaker Connector Pin#1 to Siren Speaker White	SIREN SPKR HI	Siren Speaker Hi	Grey	14 awg
SL Siren Speaker Connector Pin#3 to Siren Speaker Black	SIREN SPKR LO	Siren Speaker Lo	Grey/White	14 awg
TB3 to Headlight Factory connector	HDLT FLASH TRG	Headlight Flasher Trigger	Tan	18 awg
SL Connector E Pin#8 to Horn trans relay (86)	HRN TRNS TRG	Siren Hands Free -To siren Outlet #12	Green	14 awg
SL Connector E Pin#4 to Horn trans relay (87)	HRN TRNS SIGNAL	Siren Hands Free- To siren Input # 4	Green/Blk	14 awg
Horn Trans relay (87A) to horn (Part of relay) PENTAHARNESS	HORN OUTPUT	To vehicle horn	Yellow	14 awg
Horn Trans relay (30) to horn (Part of relay) PENTAHARNESS	HORN INPUT	From vehicle horn relay	Yellow	14 awg
Horn Trans relay (85) to ground(Part of relay) PENTAHARNESS	-	Horn Trans relay to ground with ring terminal	Black	



## RCMP Installation Standards 2013 Ford Interceptor Sedan

SL Connector E Pin#5 to DRL override PENTAHARNESS	DRL over ride Trigger	DRL Trigger	Orange	18 awg
TB1 To rear LEDs Fused 3 AMP	REAR LED (Strobe) TRG	Rear LED (Strobe) Trigger with fuse holder 3A in trunk	Pink	18 awg
Trunk Tray to Console	RADIO SPKR HI	Open ended wires for two way radio in trunk to speaker in cockpit	Brown	18awg
Trunk Tray to Console	RADIO SPKE LO	Open ended wires for two way radio in trunk to speaker in cockpit	Brown w/blk strp	18awg
PDU Accessory Input	ACCESSORY INPUT	Accy Relay Trigger (Factory fuse # 18 in trunk )	Yellow	18 awg
SL Connector D Pin#1 to gun lock Positive	Gun Lock Hi	Gun Lock Hi	Blue	16 awg
Trunk Tray Ground Stud to gun lock negative	Gun Lock Lo	Gun Lock Lo	Blue/White	16 awg
PDU -Battery-1 to console battery fuse panel post	CNSL BATT PWR	Console B+ Power	Red	12 awg
PDU -Accessory-1 to console accessory fuse panel post	CNSL ACCY PWR	Console Accessory Power	Red	12 awg
PDU -Timed -1 to console Timed fuse panel post	CNSL TIMED PWR	Console Timed Power	Red	12 awg
PDU-Ground-1 to console ground post	CNSL GND	Console Ground	Black	10 awg
SL Connector E Pin#7 to console- loose	SPARE	Spare Function	White	18 awg
PDU 12V Input to Battery Post+	PDU 12V IN	PDU main Power Input Fused @ 50Amp	Red	10 awg
SL Power Input #1	POWER INPUT 1	Smartlink Fused Power input 50 Amp	Red	10 awg
SL Power Input #2	POWER INPUT 2	Smartlink Fused Power input 50 Amp	Red	10 awg
SL System Power	SYSTEM POWER	Smartlink System Input Power	Red	10 awg
SL System Ground	SYSTEM GROUND	Smartlink System Input Ground	Black	10 awg
PDU Ground Input to Battery Post negative	PDU GND IN	PDU main Ground Input	Black	10 awg



## RCMP Installation Standards 2013 Ford Interceptor Sedan

Main Batt to separator	N/A	Main batt to separator	RED	2 AWG
Aux Batt to separator	N/A	Aux batt to separator	RED	2 AWG
Main Batt to Aux Batt	N/A	Ground	BLACK	2 AWG
Grill LEDs	N/A	Trunk tray to Grille heat shrink cap	Black/orange	18 AWG
Brake sense	N/A	Center stack to tray	Blue/orange	18 AWG
Start sense	N/A	Center stack to separator	Bworn/Blue	18 AWG

Connector	Pin	Wire Function	Wire Color	Wire Gauge
TB3		Headlight Flashers		-
TB2		Front LEDS (Strobe)		-
TB1, 5-8		Rear Outboard LEDS (Strobe)		-
TB1-1		Takedown Lights		-
TB1-2		Drivers Alley Light		-
TB1-3		Passengers Alley Light		-
TB1-4		Rear Flashers		
TB4 Gnd		Drain (Shield)		-
TB4 Gnd		Ground??????		-
Traffic Arrow Connector	1	T/A Lamp #1		-
	2	T/A Lamp #2		-
	3	Not Used		-
	4	T/A Lamp #3		-
	5	T/A Lamp #4		-
	6	Not Used		-
	7	T/A Lamp #5		-
	8	T/A Lamp #6		-
	9	12v Lamp Voltage (Common)		-
	10	Not Used		-
	11	Not Used		-
	12	Not Used		-
PDU Common		Connected	Black	
LED Programming		Not connected	White	
LED sync		Connected	Green	



## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Appendix D Wiring Harness Accessory Package Parts list (some components preinstalled)

#### Parts Kit – Contents

	Phoenix P/N	Description	Qty
	115-15600-06-20	6 Pos Fuse Centre	3
	115-TB100-04	TB2 / TB3 - Term Block 4 Pos	2
	115-TB300-08	TB1 - Term Block 8 Pos	1
	116-2981001	TB4 – Battery Post Connector	1
FUSE SPARES LEAVE IN VEHICLE	160-20AMP	20A ATO/ATC Fuse	3
	167-50AMP	50A Midi Fuse	3
TERMINAL BLOCK CONNECTORS	105-100453U	Fork, #6, 14-16 AWG, Uninsulated	6
	105-100454U	Fork, #8, 14-16 AWG, Uninsulated	7
		PDU 12V IN – Fuse holder Assy	1
		PDU GND IN – Jumper Wire	1
		POWER INPUT 1 - Fuse holder Assy	1
		POWER INPUT 2 - Fuse holder Assy	1
		SYSTEM PWR - Jumper Wire	1
		SYSTEM GND - Jumper Wire	1
		OUTPUT 1 - Jumper Wire	1
		OUTPUT 2 - Jumper Wire	1
		OUTPUT 3 - Jumper Wire	1
		OUTPUT 4-7 – Jumper Assy to TB1	1
		Conn E – Jumper Assy to Harness	1
		Power outlet – red & black 14 AWG	1



## RCMP Installation Standards 2013 Ford Interceptor Sedan Appendix I – Corner LED (Ströbe wiring diagram)

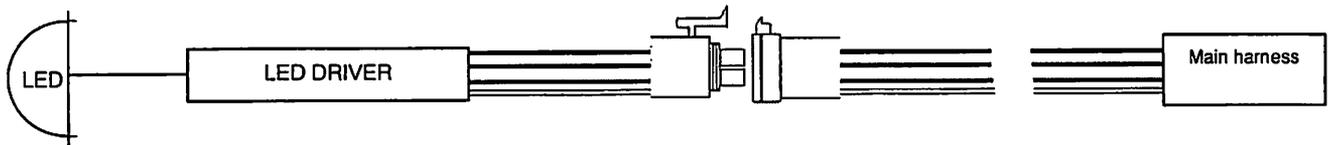
**A- Red-Power (Fuse 3-AMP)**

**B- Black-Ground (Front and rear LED grounds will already be spliced to console ground, this hooks up to PDU ground)**

**D- GRN-Sync (Front and rear LED lights will already be spliced together by fuses )**

**C- White-Scan-Lock (Not hooked up used For programming only)**

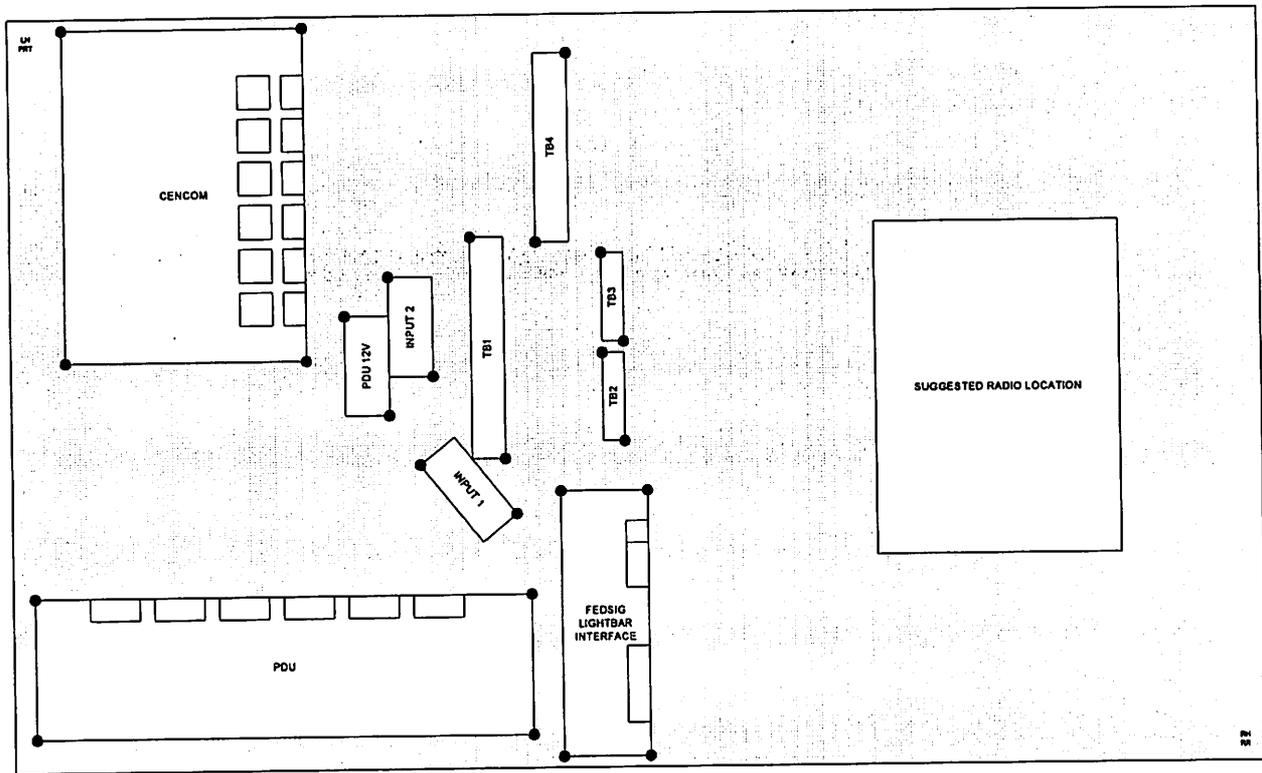
**NOTICE: THERE WILL BE A 1/4-INCH TAIL PROTRUDING FROM HARNESS THIS IS TO BE USED FOR PROGRAMMING (WHITE SCAN-LOCK WIRE)**





# RCMP Installation Standards 2013 Ford Interceptor Sedan

## Appendix K Trunk tray layout

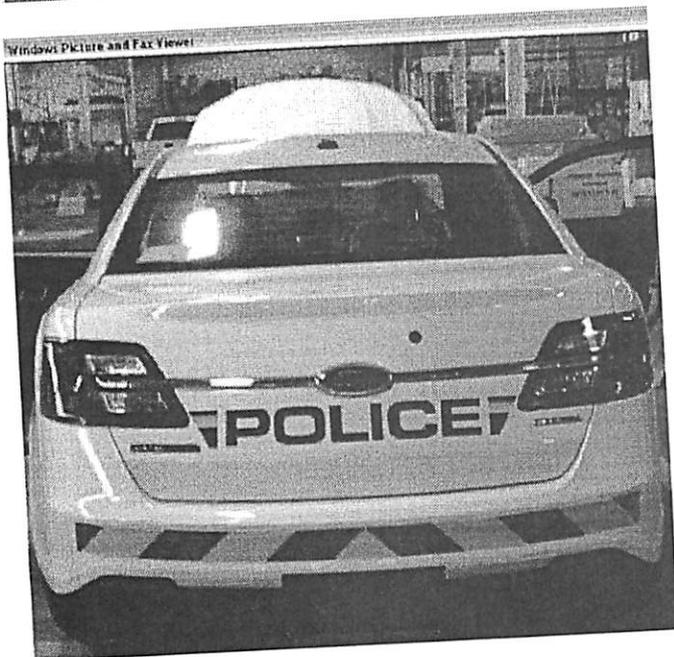
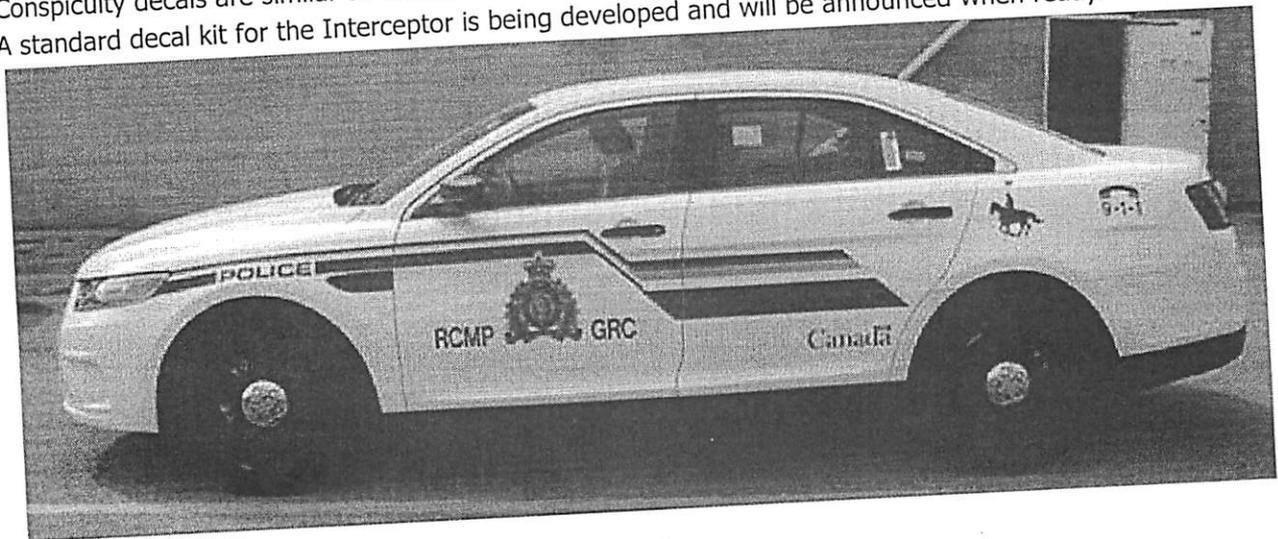




## RCMP Installation Standards 2013 Ford Interceptor Sedan

### Appendix L Decaling Guidelines

Use decal kit designed for the Crown Victoria  
Follow the design shown in the following photos. This has been approved by Corporate Branding and National Fleet.  
Rear Chevron decal must be blue and white, not red and white as shown in photo.  
Conspicuity decals are similar to Crown Victoria. Use Best Fit.  
A standard decal kit for the Interceptor is being developed and will be announced when ready.





# **RCMP Installation Standards 2013 Ford Interceptor Sedan**



# RCMP Installation Standards 2013 Ford Interceptor Sedan Appendix M Video OverHead Mount Assembly Drawing

A copy of these instructions is also included with the mounting bracket from R Nicholls (050-1933-00)

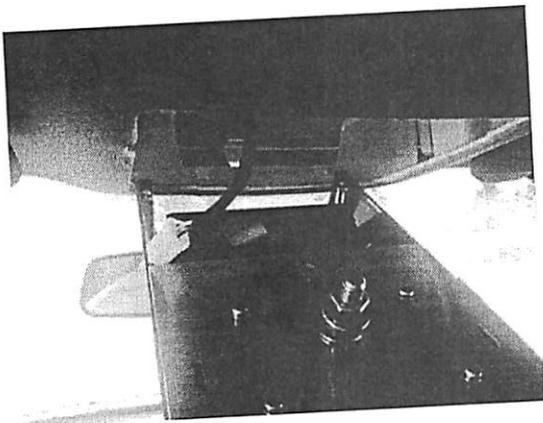
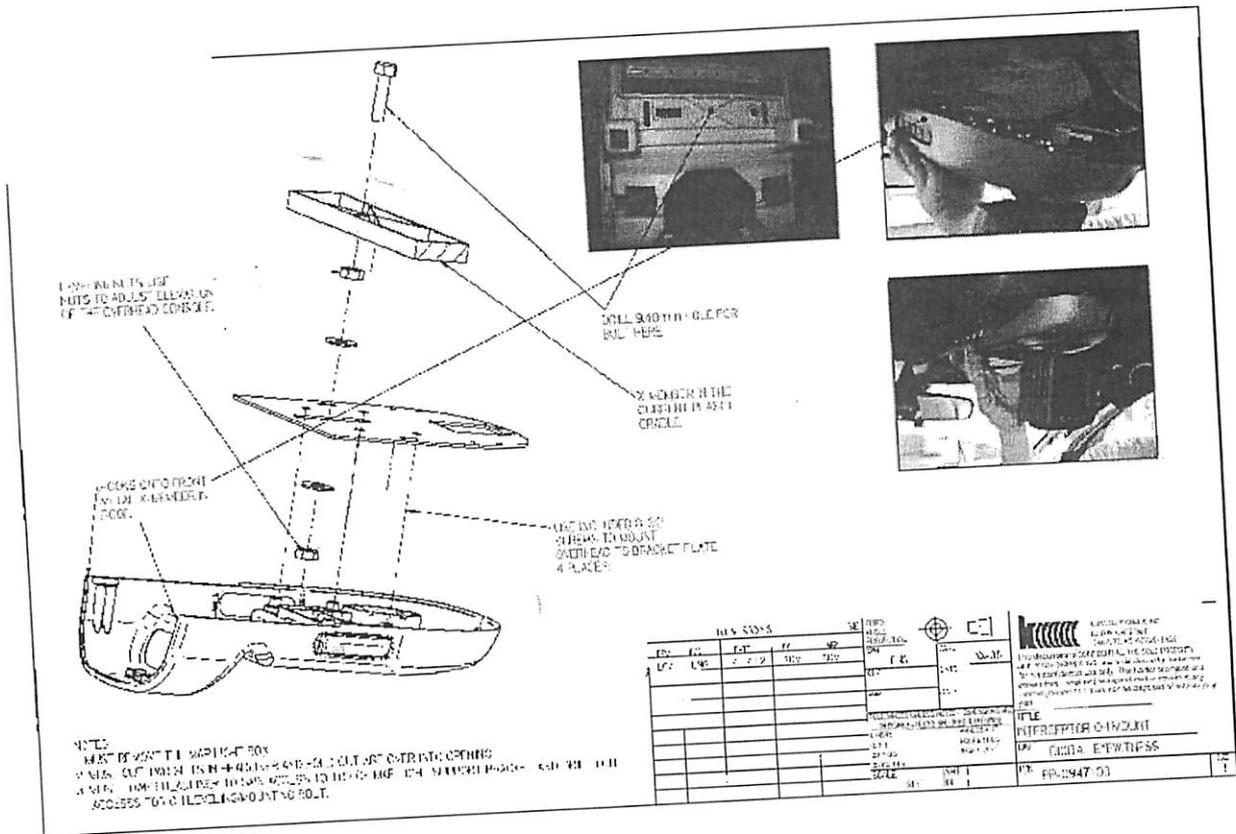


Photo of Overhead Mounting plate partly installed with the Overhead console for clarity.



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## Install Guide for 2013 Interceptor Dashmount Kit



Note:  
Actual radio/siren controllers may be  
differ from what is shown, however  
install processes will be the same.

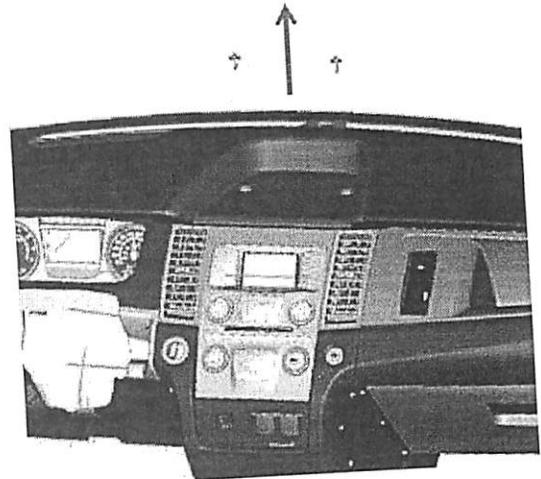
Step 1: Remove "Universal Top Tray (UTT)" from vehicle

Sedan:

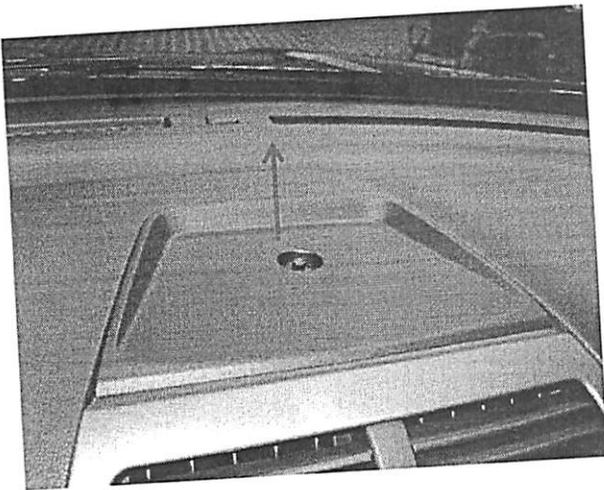
-Remove the two bolts as pictured to the right, then gently pull the UTT towards you to release it from the clips.

Utility:

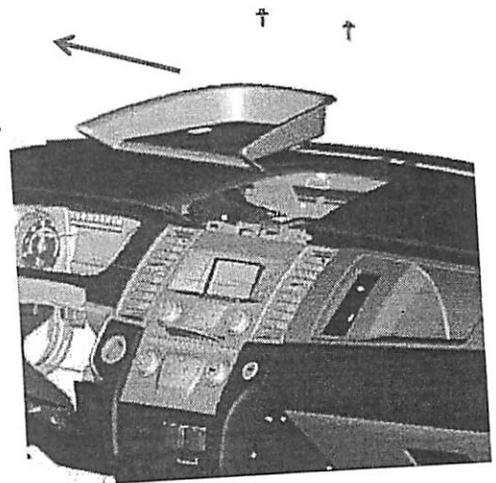
-Remove the single bolt from the UTT, then gently lift it up, releasing it from the clips.



Sedan pictured

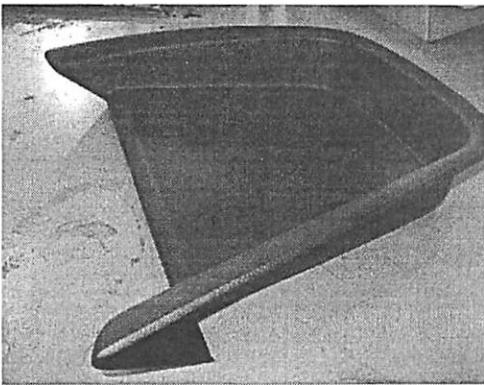


Utility pictured

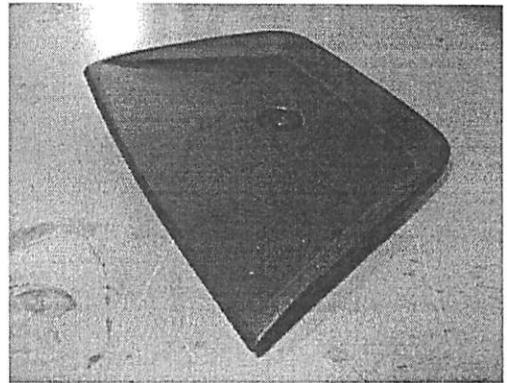


Sedan pictured

## Step 2: Prepare UTT



Sedan UTT pictured

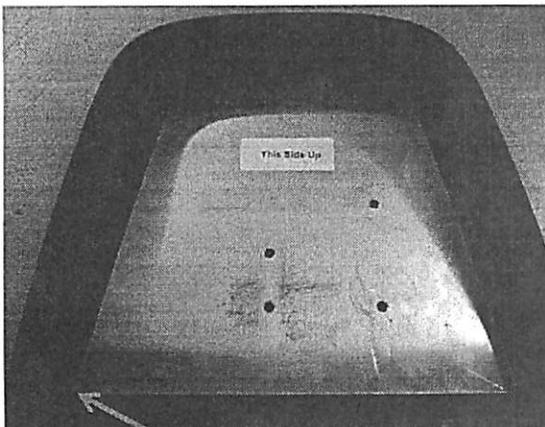


Utility UTT pictured

- Mark holes to be drilled into the UTT via the included dimensional drawing provided, and using the corners shown as the reference point, or;
- (optional)Place the drill plate\* on the UTT as shown below.

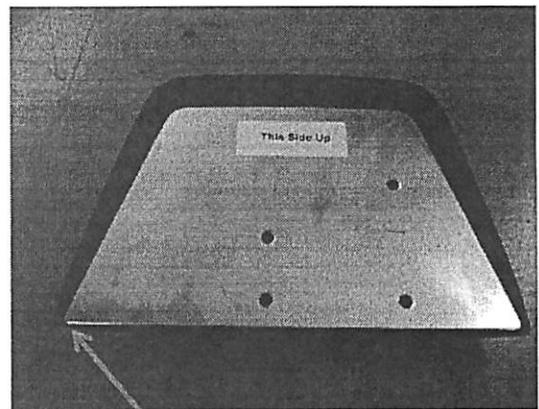
\*the drill plate is available from Precision Mounting Technologies, but is not included with each Dashmount kit. If you require the metal plate, please contact Precision Mounting Technologies (contact info listed at start and end of this guide).

Sedan pictured



Reference corner

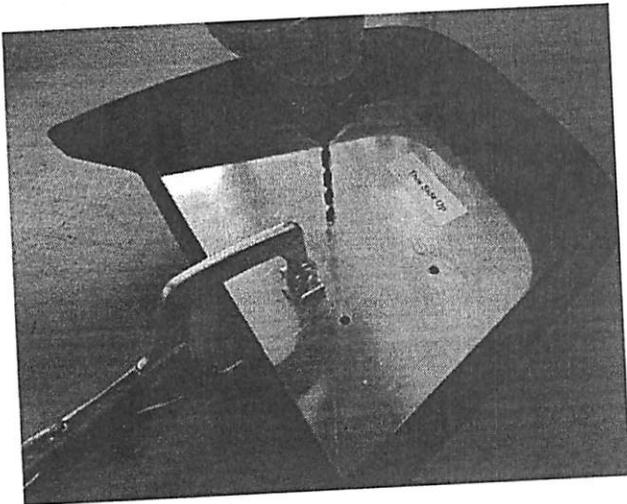
Utility pictured



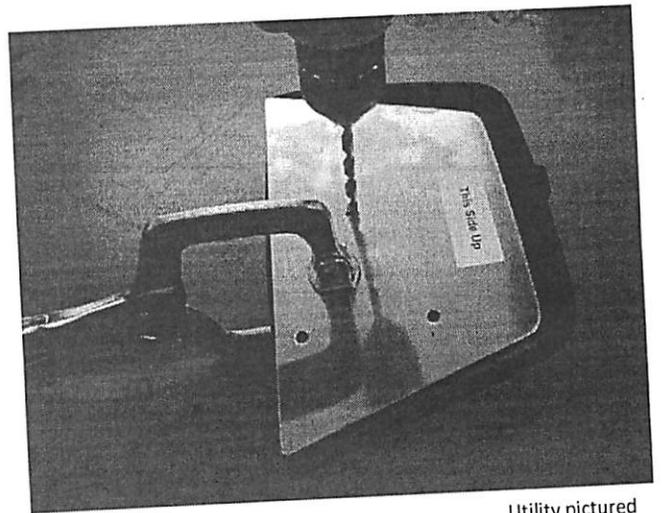
Reference corner

### Step 3: Drill Holes

- Carefully drill marked holes using a 0.257" bit (1/4" clearance drill), ensuring correct positioning and alignment.
- (Optional)Clamp the drill plate into the UTT once it is positioned correctly.
- (Optional)Using a drill and a 0.257" bit, carefully drill 4 holes thru the UTT using the drill plate as a guide.

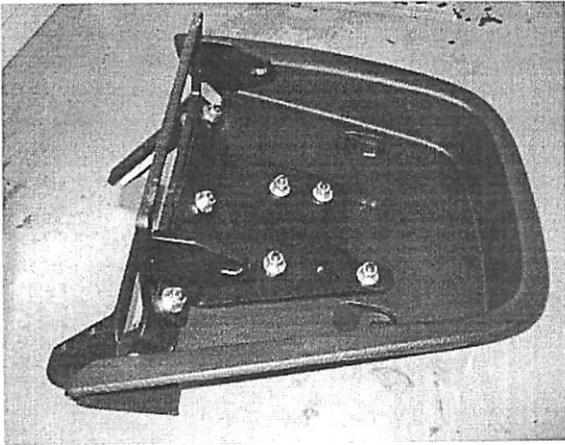


Sedan pictured

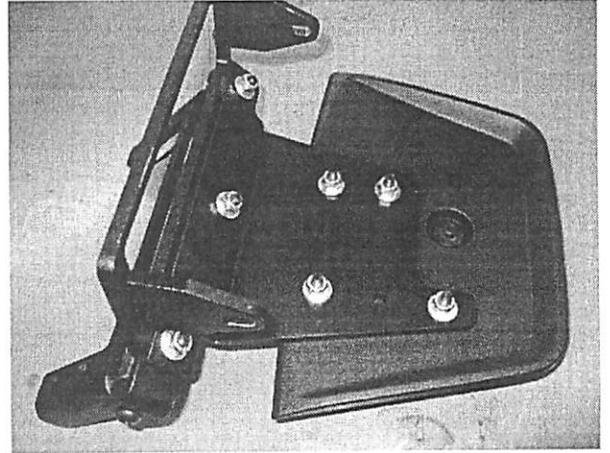


Utility pictured

#### Step 4: Attach Dashmount Bracket

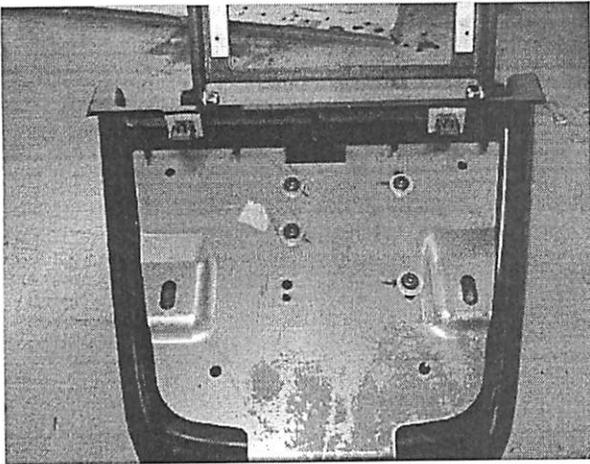


Sedan pictured

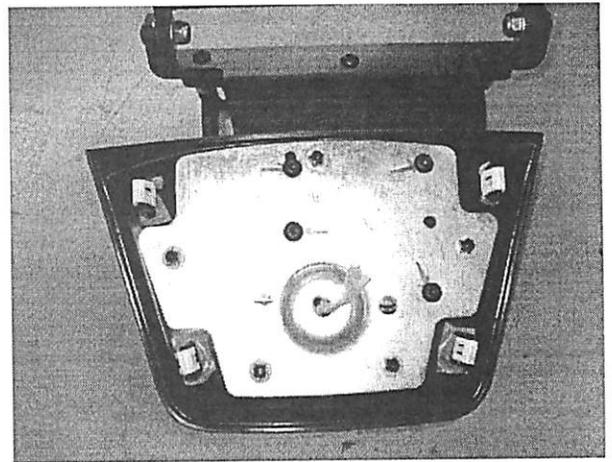


Utility pictured

-Attach the Dashmount bracket to the UTT using 4, ¼-20 x 1" bolts, washers, and nylock nut as shown. The head of the bolts should start from the bottom of the UTT, and the nuts will install on the top surface.

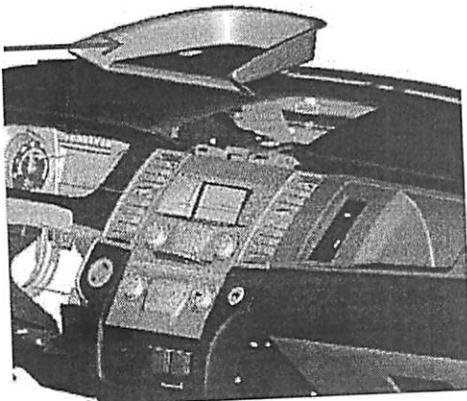


Sedan pictured



Utility pictured

## Step 5: Re-install UTT with Dashmount Bracket

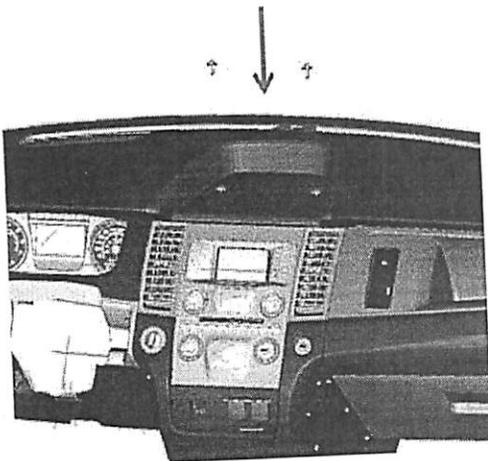


Sedan pictured

-Before re-installing the assembled unit, now is a good time to run any wiring needed for the radio, and/or the siren/light controller.

### Sedan

-Slide the assembled unit forward and down into its clips, then re-install the 2 screws removed earlier.



Sedan pictured

### Utility

-Press the assembled unit down into its clips, then re-install the screw removed previously.

## Step 6: Final Touches



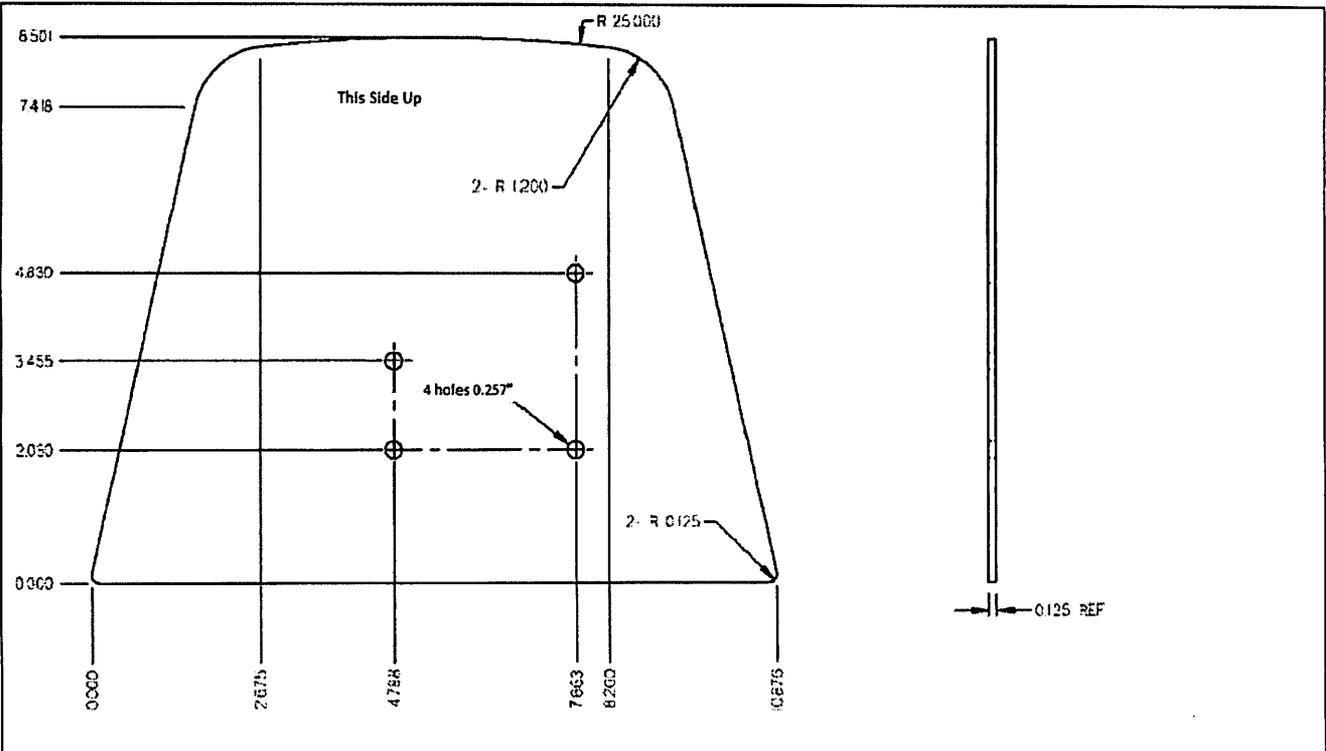
Unit is offset for gear selector clearance



Unit folds up for access to vehicle info centre

- Install radio equipment, and ensure proper placement so that the units do not interfere with any controls of the vehicle.
- Ensure operators of the vehicle are aware of the functions and adjustments of the unit.

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[info@precisionmounts.com](mailto:info@precisionmounts.com)  
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CYCLE TIME ????		MATERIAL PL 1/4" ALUM5052		CUT SIZE	CUSTOMER	ACB#	SLAVITY										
MATERIAL FINISH POWDER COAT BLACK		USLES OF USE NOTED Fractional Decimal XX : 0018 XXX : 0010 XXXX : 0005 Angles : 01		 <p>2222-49th Ave. South East Calgary, Alberta T2B 0B2</p>		<p>Interceptor Sedan Dashmount Drill Plate</p> <table border="1"> <tr> <th>DATE</th> <th>DATE</th> <th>DATE</th> <th>DATE</th> <th>DATE</th> </tr> <tr> <td>8/8/2012</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		DATE	DATE	DATE	DATE	DATE	8/8/2012				
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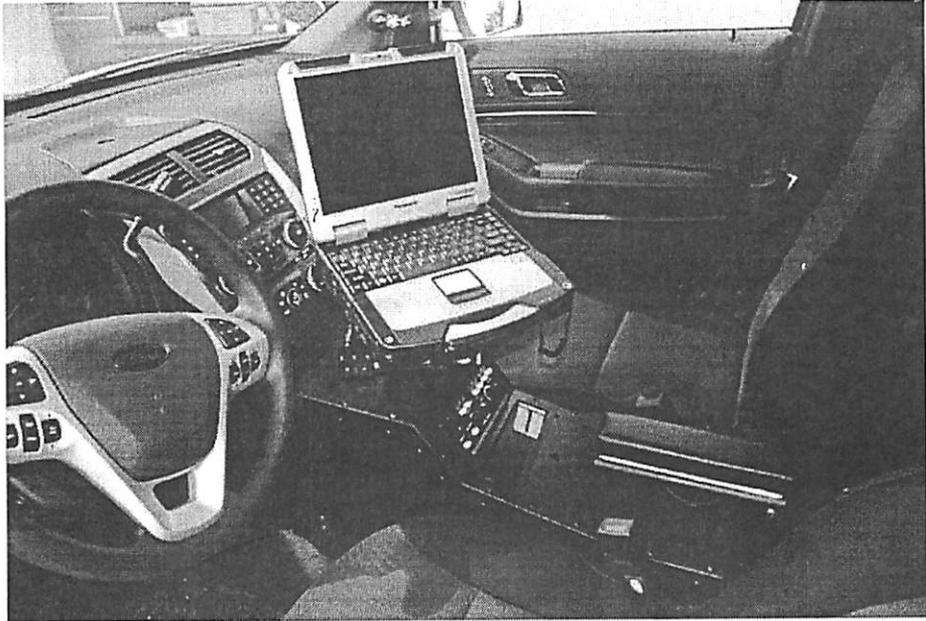




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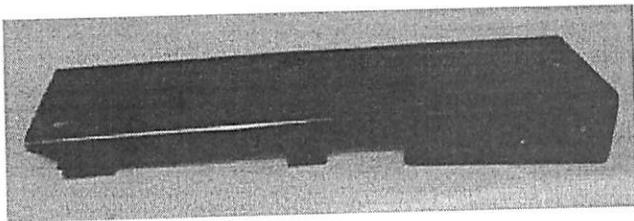
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### Install Guide for PMTL Consoles and Mounting Systems for the 2013 Ford Interceptor Sedan and Utility Vehicles

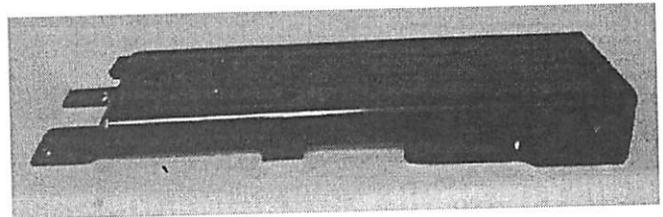


## Step 1: Remove steel hump plate

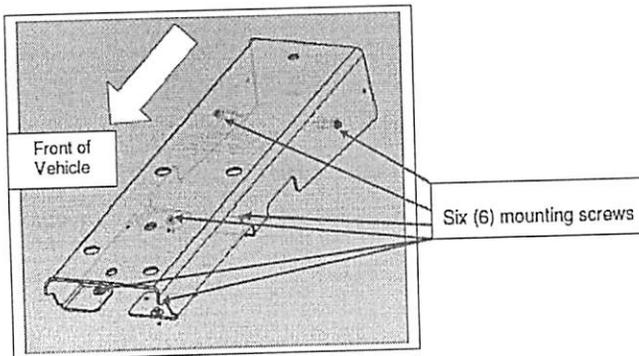
Sedan



Utility



Removal process for center console mounting plate:



1. Remove six screws that secure the console mounting plate to the body.
2. Slide the console mounting plate forward in vehicle approximately 13mm (0.5 in.) until contact is made with the instrument panel.
3. Lift the rearward end of the console mounting plate at approximately 45° angle upwards while holding the front end of the console mounting plate down.
4. Remove the console mounting plate by lifting it rearward along the 45° degree angle.

Note: Utility Only

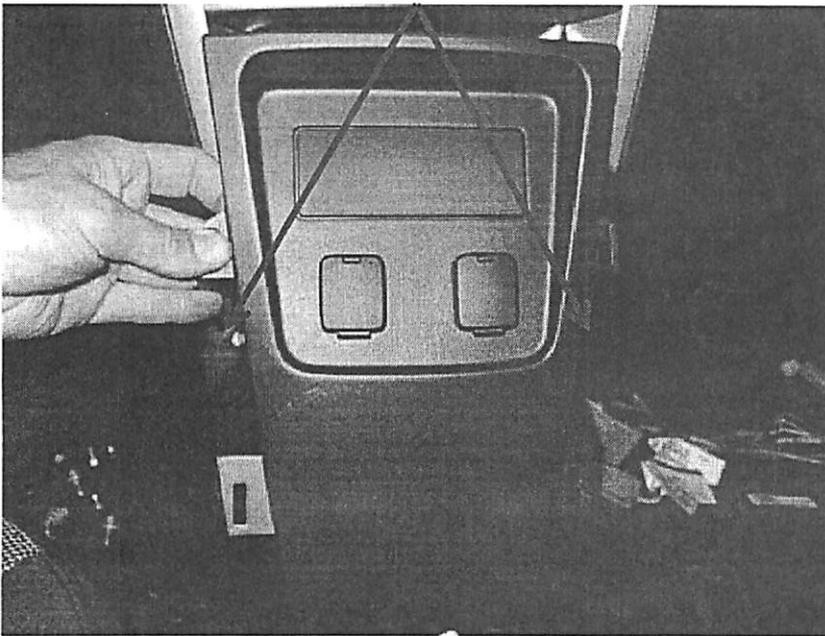
An extra step is needed to remove the steel hump plate, see next page for detail.

Step 1 continued...

**Extra Step for Utility Only:**

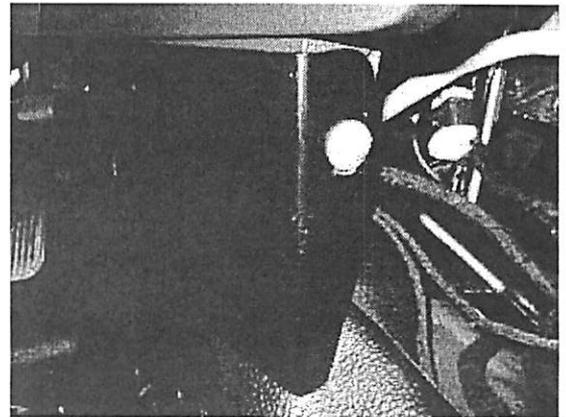
- To remove the steel hump bracket in the utility it is first necessary to remove the side plastic trim that runs along the side of the centre column. Remove by gently pulling it away and releasing the clips.
- Once the side trim is removed, the centre section that houses the 12v outlets can also be removed. This is done by removing the 2 screws and gently pulling out releasing the clips.

Screws



Utility

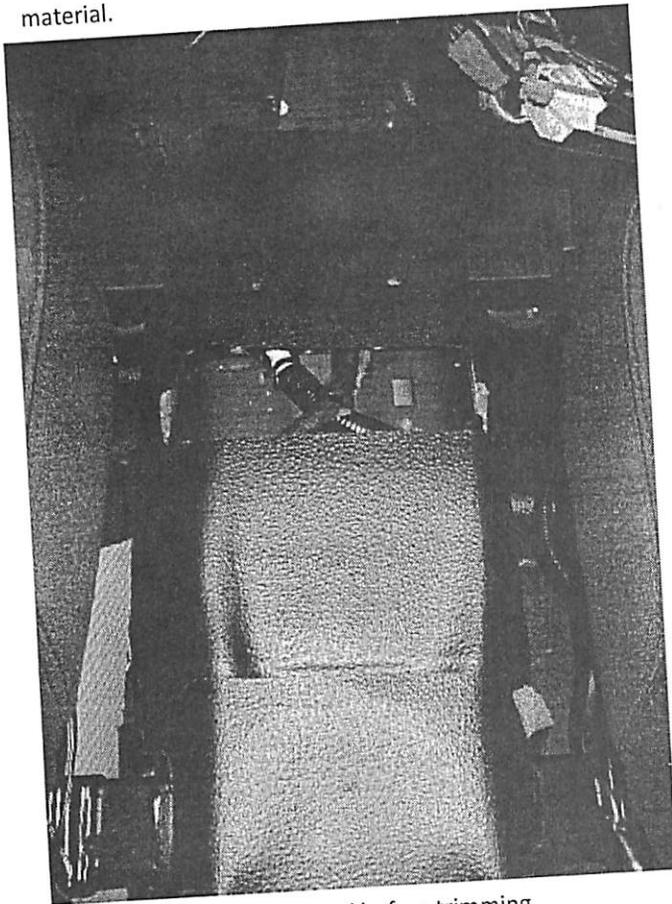
- Once the side trim and centre section is removed, install supplied side trim back into position as shown using the same hardware that held the original trim.



Utility driver side trim panel

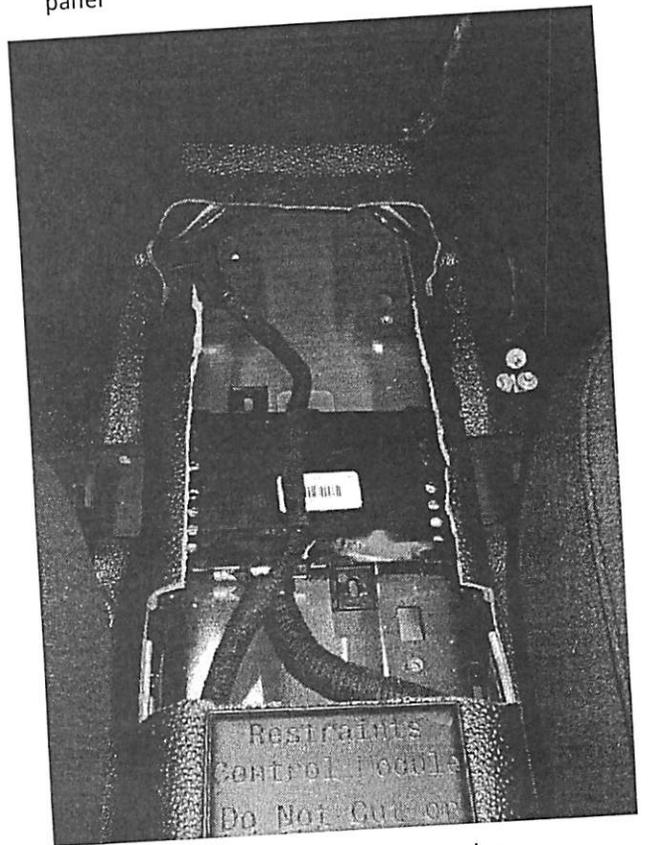
## Step 2: Install new (supplied) Console Mounting Brackets Sedan and Utility

-Now that the steel plate is removed it will be helpful to trim back some of the plastic floor covering material.



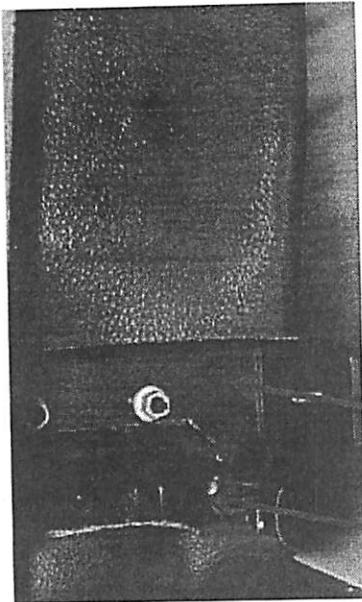
Utility pictured before trimming

-Remove just enough so that you can release the clips holding the wires tight to the metal panel



Sedan pictured after trimming

## Step 2 continued...



### Utility

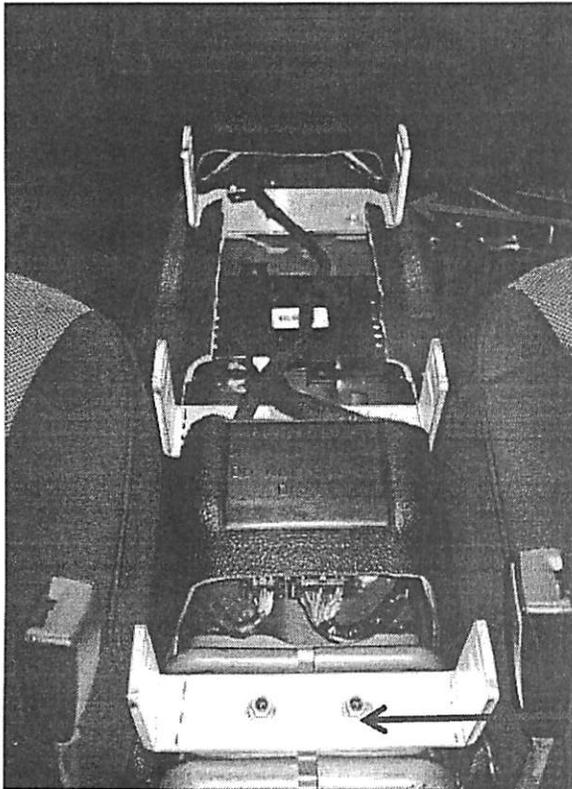
-The factory rear steel bracket assembly can not be removed, so install the supplied rear mounting bracket with the notch cutout facing rear as shown to the left.

Supplied rear console mounting bracket

Factory rear steel bracket assembly

Utility pictured

Step 2 continued...



-Install the front two brackets under the wires, and secure them using the bolts that were used with the original steel hump plate. Do not tighten completely until later in the installation.

Front brackets

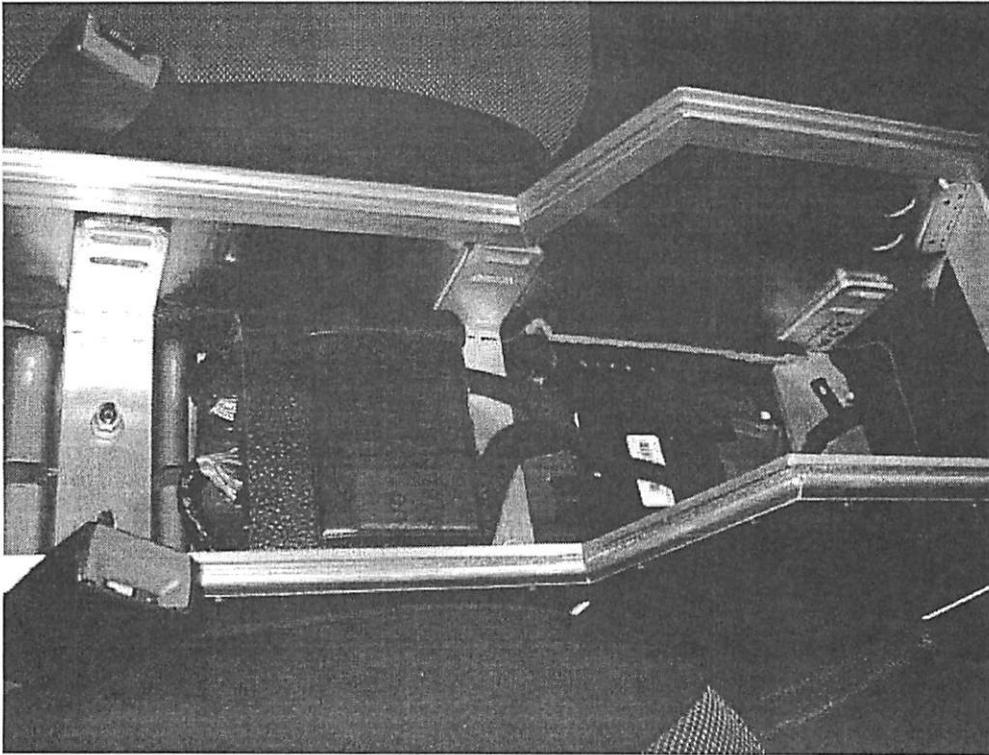
Sedan

-Remove the rear steel bracket, and replace with the supplied console mounting bracket as shown to the left. (actual bracket may be different then shown)

Sedan pictured

### Step 3: Install the Console Sedan and Utility

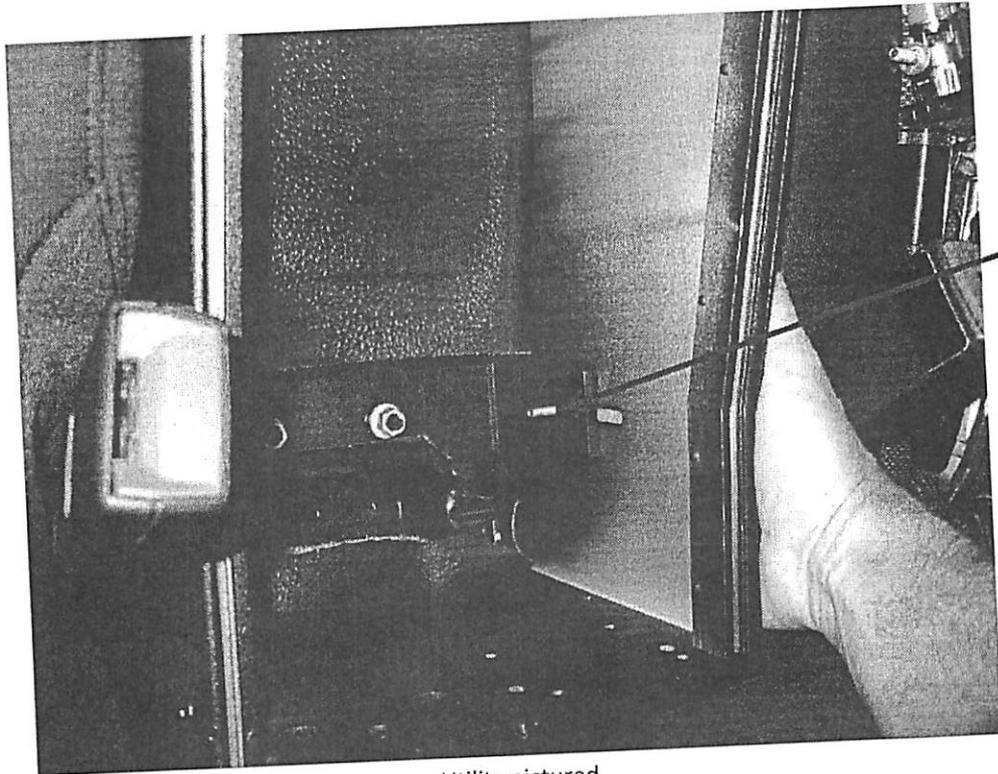
- With the bolts holding the brackets still loose, slide the console down over the brackets and position so that the slots in the side of the console line up with the slots in the mounting brackets.
- Centre the console as desired and then tighten the bolts holding the mounting brackets to the vehicle.



Sedan pictured

#### Step 4: Install side bolts Sedan and Utility

-Install the side carriage bolts (supplied) that secure the console to the mounting brackets by sliding them down and holding with one hand, then use a plain washer, split lock washer, then the nut. Do not tighten until all bolts (12 in total) are installed and the position of the console is as desired.



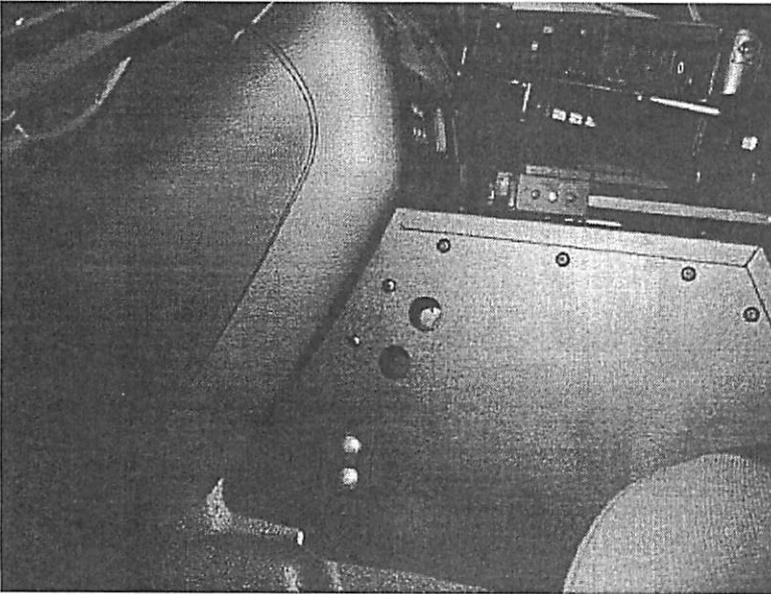
Side carriage bolt

Utility pictured

## Step 4 Continued...

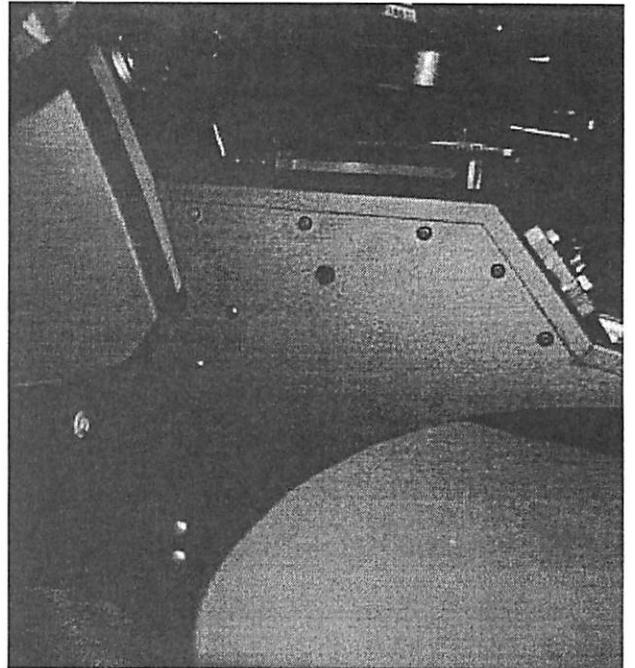
Sedan:

The top of the console should line up nicely with the dash as shown below



Utility:

The console should line up as shown below



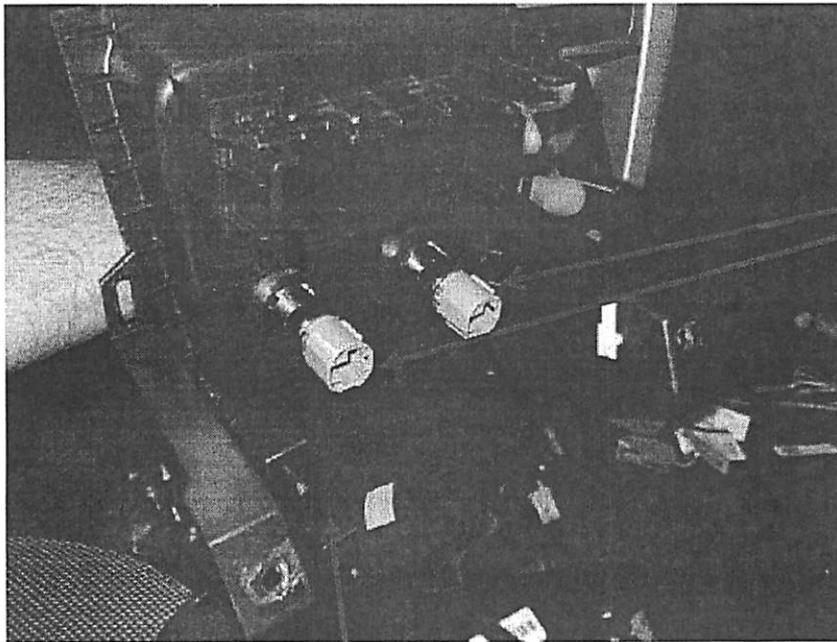
-Once the console is aligned as desired, tighten all remaining bolts.

## Step 5: Install accessories

### Utility:

Remove the original OEM 12v sockets from the centre trim panel removed in an earlier step, for re-install into the new console. Once installed in the new console, re-connect the wiring that originally lead to them.

### Utility



OEM 12v sockets

Note: (Utility only) Keyless entry receiver module is mounted to this trim panel from the factory. Remove it from the panel (leaving all wiring hooked up) and secure it somewhere in the new console or under the dash.

## Step 5 Continued...

Sedan and Utility:

-Install the optionally supplied: armrest/cupholder plate, blank filler plates, radio faces plates, and laptop mounting plates.

-The plates are secured to the console using the supplied 10-24 nuts that are slid into the console rails, and then fastened with the supplied 10-24 x 5/8" screws.

OEM 12v sockets  
re-installed



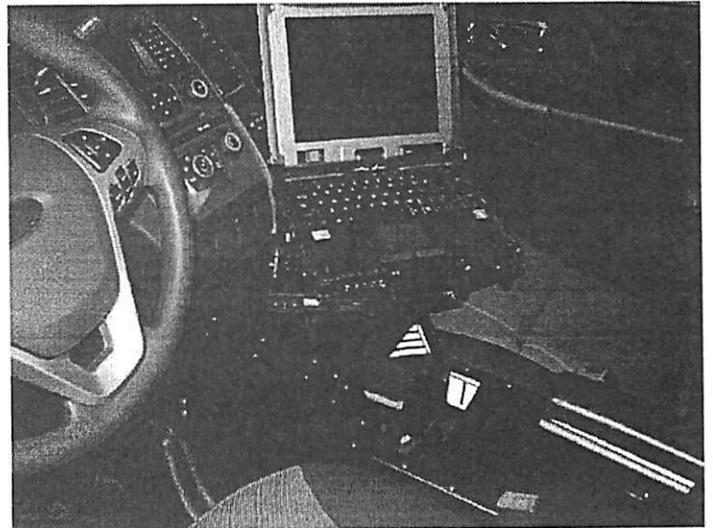
Utility

## Step 6: Final adjustments

- Go over everything to make sure that everything is fully tightened and secure.
- Adjust positioning, and go over how the built in adjustments are used to maximize comfort, safety and functionality.
- For more info visit: [www.precisionmounts.com](http://www.precisionmounts.com)



Utility



Sedan



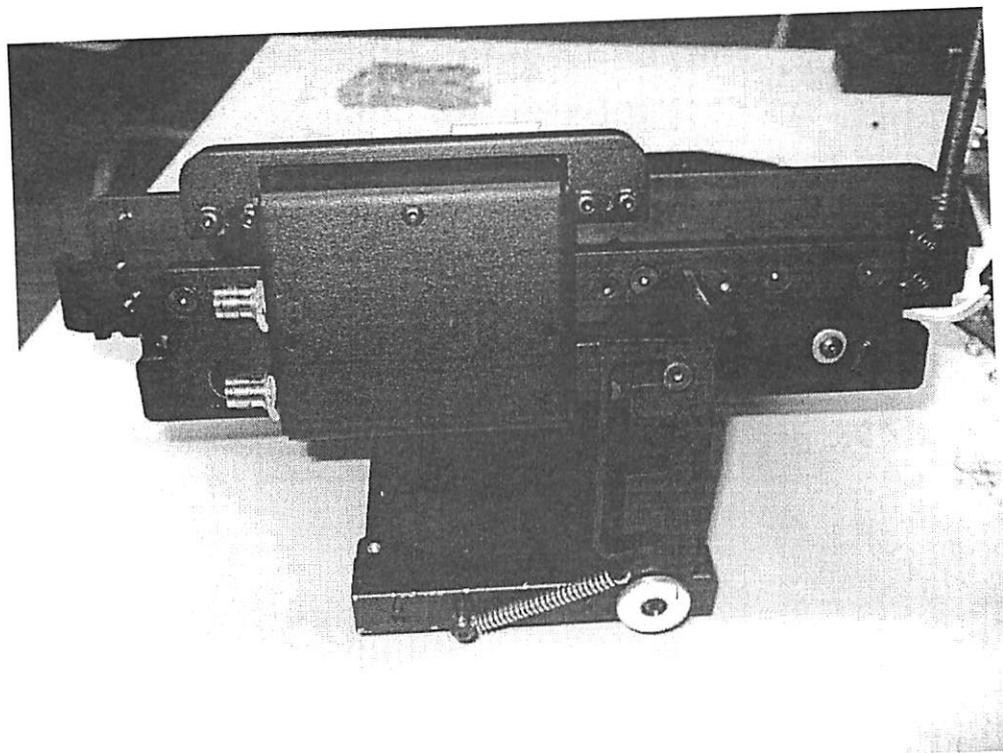
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CF-31 Docking Station Interface Plate Upgrade Procedure

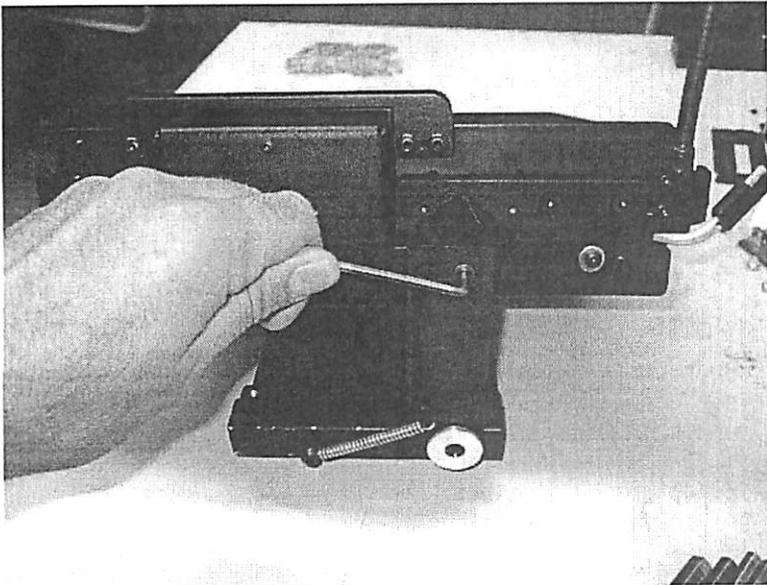
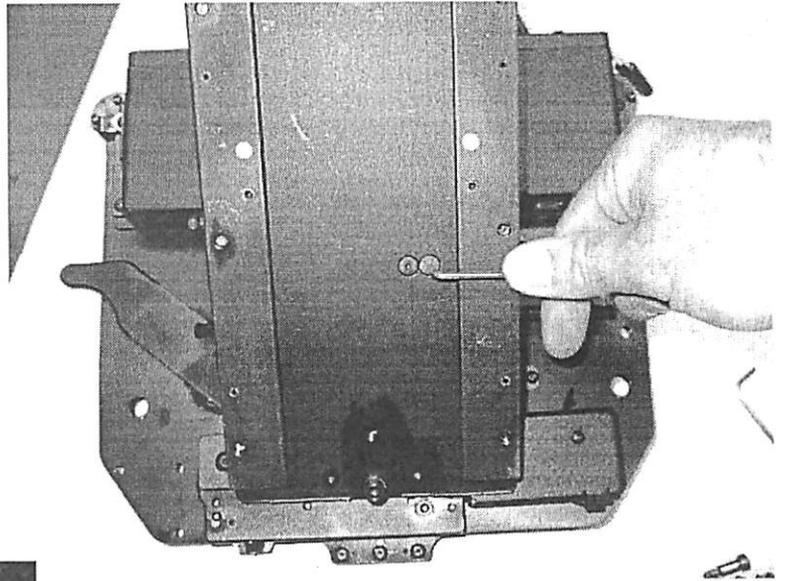
Spring Tilt Mechanism to "Mouse Trap"

**Step 1: Prepare the dock**  
The docking station should be in this state out of the box



### Step 2:

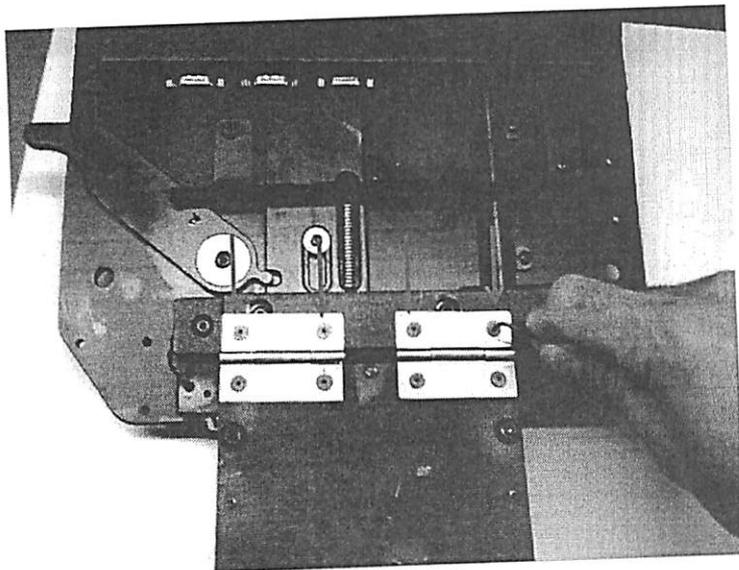
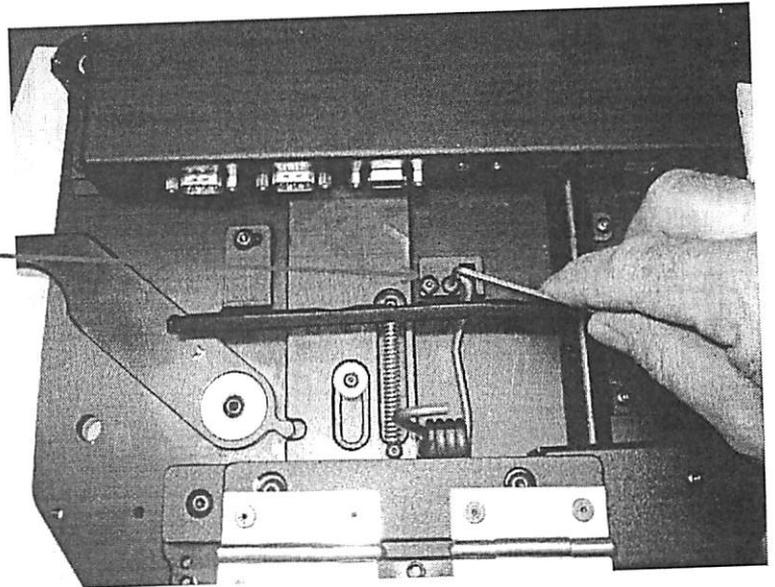
- Flip the docking station over so that you can access and remove the two screws shown to the right.
- This releases an aluminum block that holds one side of a spring on the other side of the plate.
- discard the block and screws.



### Step 3:

- Flip the unit over to remove the single bolt shown to the left that the latch handle connects to.
- discard bolt.

- Step 4:**
- Flip the unit over, and the rail plate can now hinge completely open giving access to the other spring mounting block.
  - Remove and discard the two screws, spring, and block.

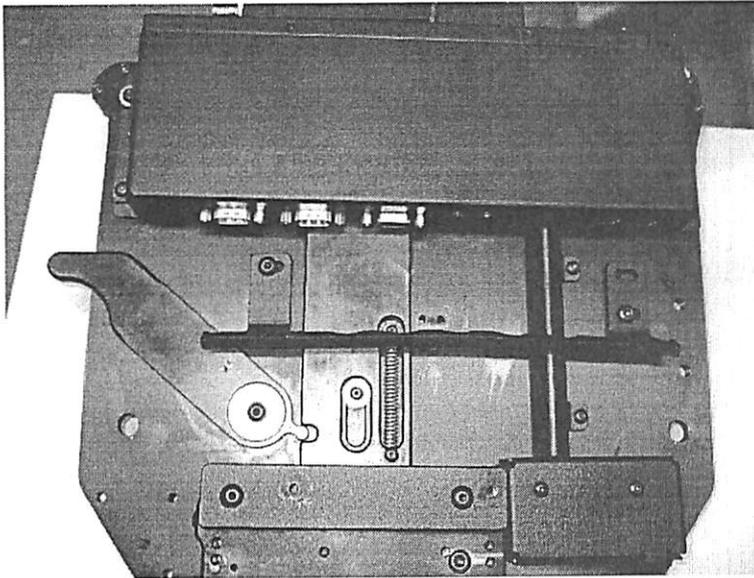
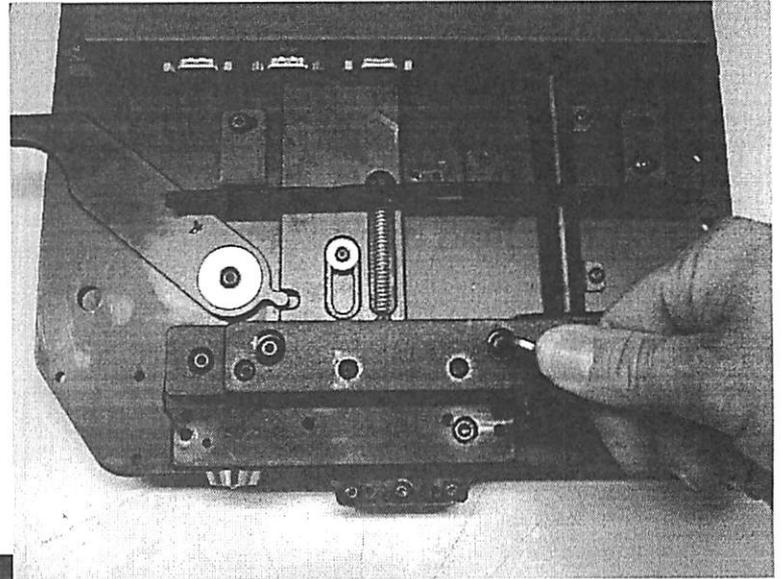


**Step 5:**

- Remove the four screws that mount the slide rail hinge plate to the docking station as shown to the left.
- The slide rail plate and hinges can now be discarded.

### Step 6:

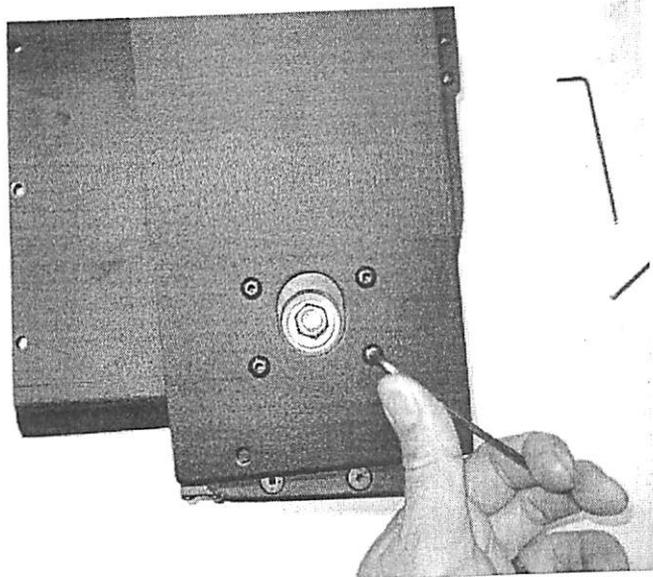
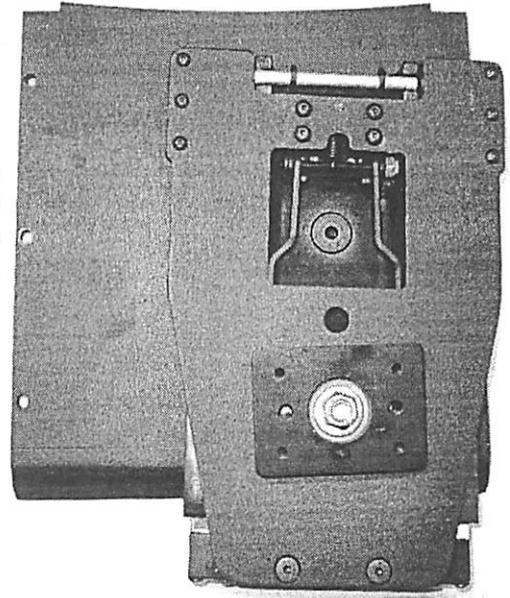
- Remove the two bolts and spacer block that the hinges were screwed into.
- Discard the spacer and screws.



-The docking station should now look as is pictured to the left.

### Step 7: Prepare the "Mouse Trap"

-These steps can be performed with the assembly bolted to the console in the vehicle, however for demonstration and for ease of assembly, it will be easier to remove it from the vehicle.

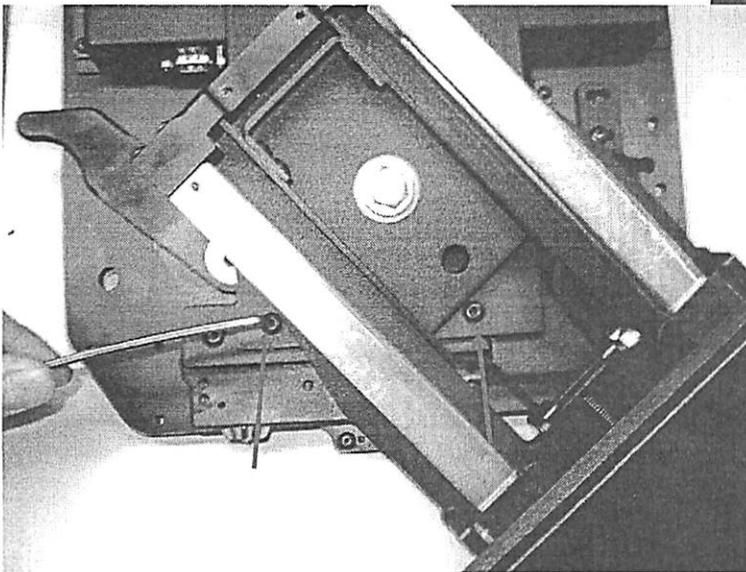
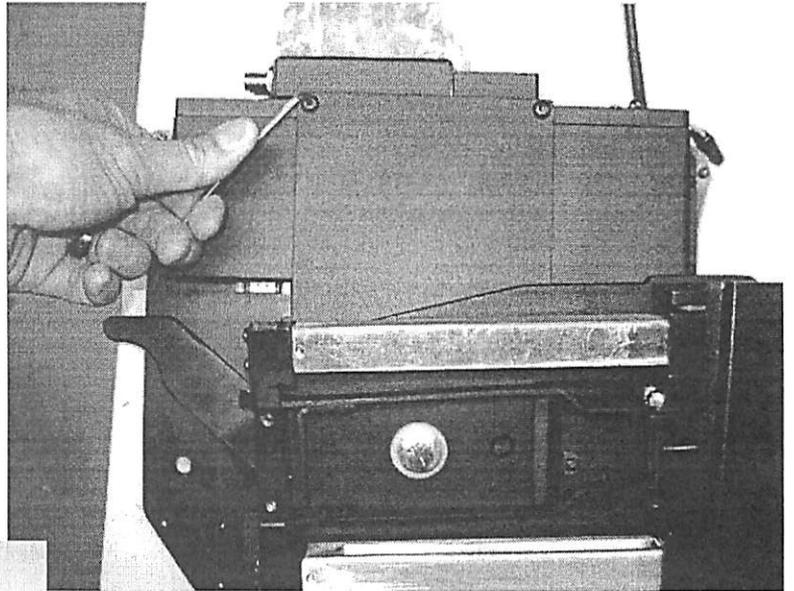


### Step 8:

-If not already done so, attach the new flat plate as shown on the left, to the "Mouse Trap" wedge plate using 4, 10-24 x 1/2" screws, using thread lock on the threads.  
-Note that the flat plate has the front two holes offset, so take care when attaching to the wedge block that the plate is the right way up.

### Step 9:

- Attach the docking station to the flat plate using the supplied 4, 10-24 x 1/2" screws.
- Start by installing the rear screws as shown to the right.
- Ensure thread lock is used on all threads.
- Note that any and all cabling related to your install should be attached to the dock before you mount it to the "Mouse Trap".

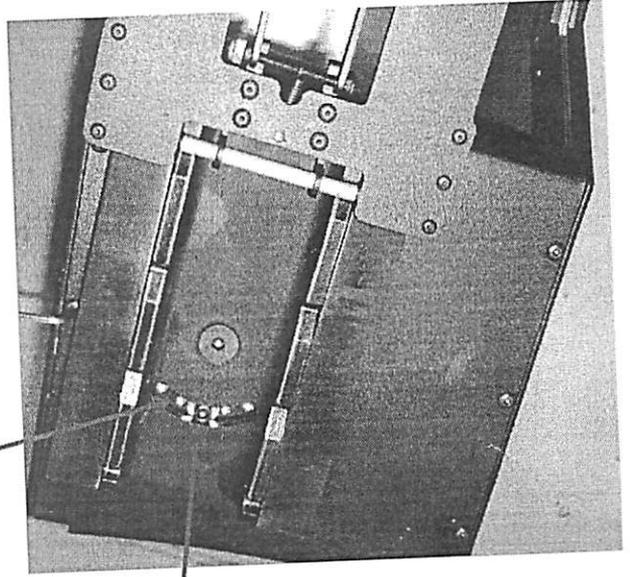


- Rotate the dock so that you can access the front two screws as shown to the left.

The mouse trap features many safety features, one of which is the ability to limit the amount that the unit can swing left to right to prevent the laptop from becoming an obstacle when performing vehicle operations. Adjust the swing by repositioning the 1/4-20 stop bolt into any of the 5 pre-tapped holes as desired to satisfy your situation. If no swing is desired, then by adding a second stop bolt, and positioning them so that they are on the outside positions, swing will be disabled.

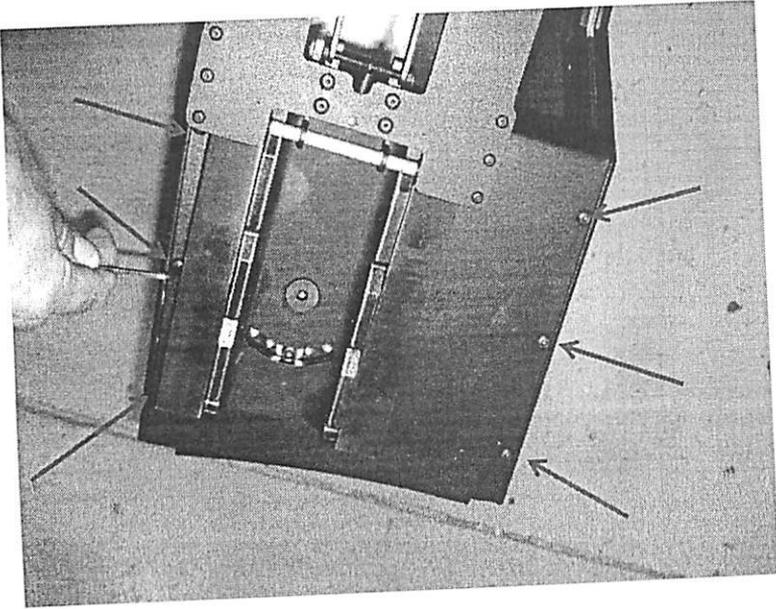
**Feature Note:**

Pre-tapped holes

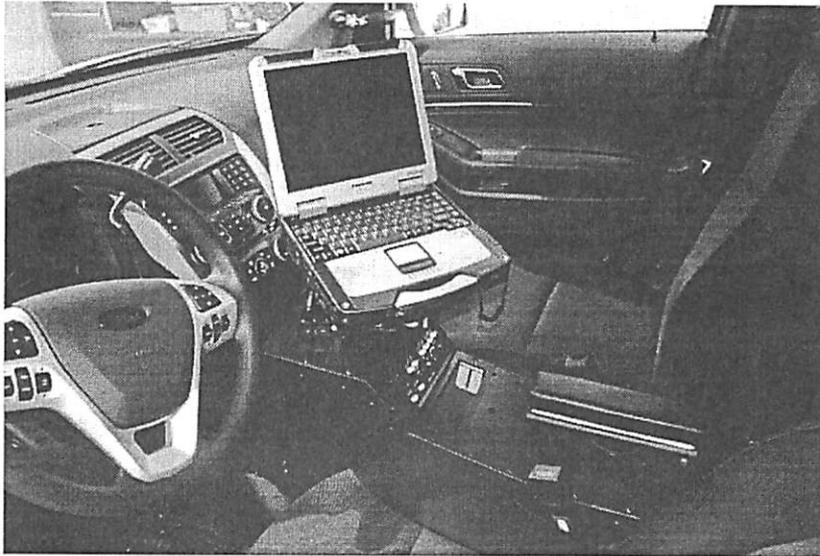


Stop Bolt

**Step 10:**  
 -Mount the assembled dock and mouse trap to the console as shown to the right using 6, 10-24 x 5/8" screws.



The Unit is now ready for use. For more info on features and use, please visit us at:  
[www.precisionmounts.com](http://www.precisionmounts.com)  
[info@precisionmounts.com](mailto:info@precisionmounts.com)



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