RCMP502-A
Selective Chime Mute Module
2016 Ford Police Interceptors (Utility Only)

Introduction

The RCMP502-A module aids in covert operations by selectively muting certain OEM vehicle chimes and disabling the daytime Running Lights (DRL). The following four vehicle chimes are muted:

Safety Belt Warning Chime - Key switched to Run, driver seatbelt unbuckled.

Key-in-Ignition Warning Chime - Key in Off (or ACC), door opened.

Headlamps On Warning Chime - Headlights on, door opened (Key Off or removed).

Door Ajar Warning Chime - Key in Run, Transmission in Park, Door opened/ajar.

It is the installer's responsibility to route and secure all wiring harnesses where they cannot be damaged by sharp objects, mechanical moving parts and high heat sources. Failure to do so could result in damage to the system or vehicle and create possible safety concerns for the operator and passengers.

It is important to avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Also avoid radio frequency energy from antenna's or inverters next to the module. Finally, avoid high voltage spikes in vehicle wiring by always using diode clamped relays when installing upfitter circuits.

Installation Instructions

Disconnect vehicle battery before proceeding with installation

WARNING
Disconnect the battery to prevent setting a check engine light.

RCMP502 Module

Remove the lower dash panel below the steering column area and find a suitable location to mount the RCMP502-A module. Choose a location in an area away from any external heat sources (engine heat, heater ducts, etc.). Do not mount the module until all post installation testing is complete and wire harnesses are routed and secure.

InterMotive Inc.
12840 Earhart Road
Auburn, CA 95602

Phone: (530) 823-1048
Fax: (530) 823-1516
Page 1 of 5

www.intermotive.net
products@intermotive.net
RCMP502-A-INS-120215

Single Green Wire Connection

The RCMP502-A kit provides a second harness which consists of a white 12 pin connector with the 4' long Green wire.
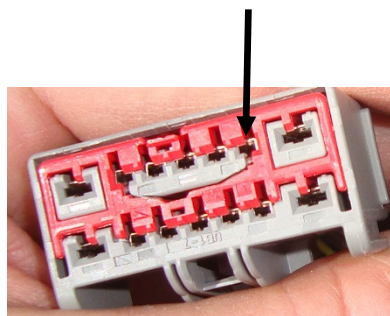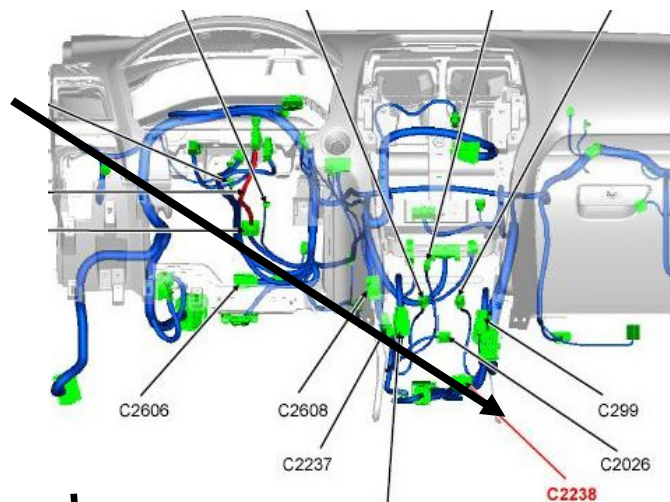
1. Plug the 12 pin connector into the RCMP502-A module.

2. Connect the Green wire to the vehicle as follows:

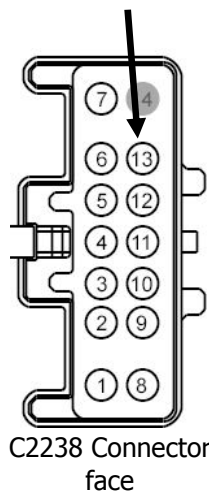Note: There are two possible locations on the vehicle to make this connection.

To Upfitter Harness under the Dash Center Stack

It's easiest to connect the RCMP502-A to the upfitter wire provided by Ford near the bottom of the dashboard center stack area. See drawing. Ford provides a 14 pin connector C2238 and a mating upfitter blunt cut harness.

Locate the Green/Violet blunt cut wire coming out of pin 13 (be certain it is the Green/Violet wire in **pin 13**, as there are multiple Green/Violet wires in this harness). Attach the pin 13 wire to the RCMP502-A Green wire using solder and heat shrink.
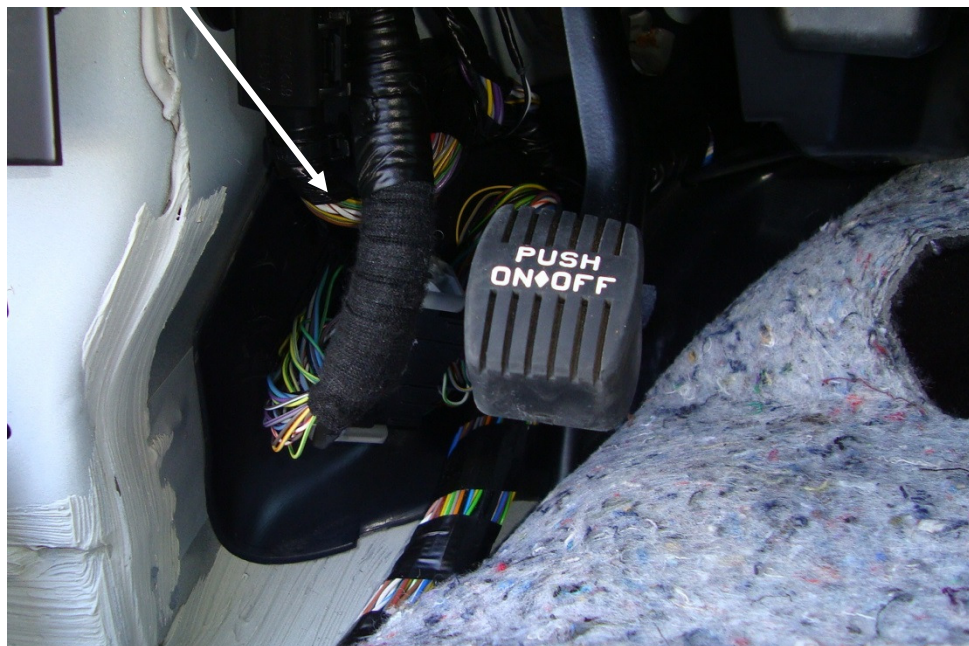
C2606   C2608   C299

C2237   C2026

C2238

Upfitter Harness Connector

C2238 Connector face

OEM provided Upfitter Harness (in glove box) mates with C2238 Connector

InterMotive Inc.
12840 Earhart Road
Auburn, CA 95602

Phone: (530) 823-1048
Fax: (530) 823-1516
Page 2 of 5

www.intermotive.net
products@intermotive.net
RCMP502-A-INS-120215

Alternate Location near Left Kick Panel

An **alternate** location to connect the Green Wire, pin 9 on the 12 pin connector at the RCMP502-A module is in a wire bundle behind the driver's side kick panel (See photo).

Locate the Green/Violet wire in the wire bundle (see photo below). Strip a small amount of wire insulation from the Green/Violet wire (<u>do not cut this wire</u>) and attach the Green Wire, pin 9 on the 12 pin connector at the RCMP502-A module using solder and tape.

InterMotive Inc.
12840 Earhart Road
Auburn, CA 95602

Phone: (530) 823-1048
Fax: (530) 823-1516
Page 3 of 5

www.intermotive.net
products@intermotive.net
RCMP502-A-INS-120215

Chimes Post Installation Test

With vehicle in Park, Park Brake applied, and Key OFF:

1. Turn Key to Run (do not start engine) and plug the 6 pin Data Link connector into the RCMP502-A module. This allows the RCMP502-A to read the vehicles VIN to verify which vehicle it is plugged into.
2. Verify that the LED's on the module are not scrolling (VIN is acquired and recognized).
3. Verify the following chimes no longer sound:

Key-in-Ignition Warning Chime - Key in ignition (Off or ACC), door opened
Headlamps On Warning Chime - Key removed, Headlights on, door opened
Door Ajar Warning Chime - Key in Run (engine on or off), Trans in Park, Door ajar (chime will sound if Transmission is out of Park).
Safety Belt Warning Chime - Key switched to Run, driver seatbelt unbuckled. Note: this last chime may sound occasionally due to the electrical architecture of the vehicle. This is normal behavior and cannot be avoided.

If the RCMP502-A fails any step in the Post Installation Test, call InterMotive Technical Support at (530) 823-1048.

Diagnostics

Diagnostic mode is entered by momentarily grounding the Gold test pad labeled "Test" on the module. This can be done with a jumper wire by shorting the two "TEST" pads together, The module provides diagnostic LEDs which illuminate
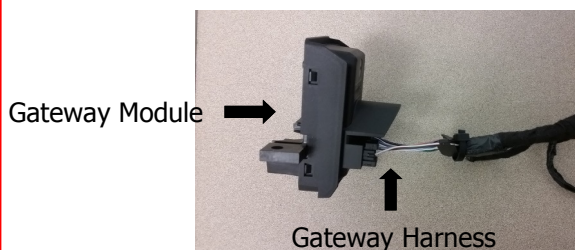

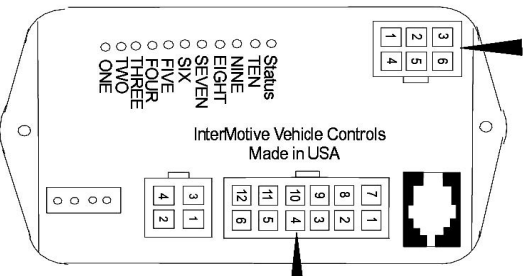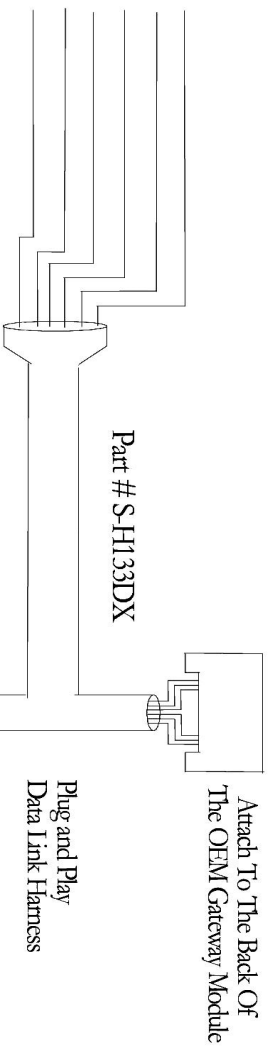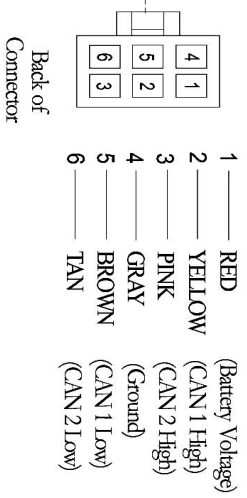| LED #	Diagnostic Mode LED Descriptions
1	Output Active

SMM511 Module Mounting

Ensure all harness are properly connected and routed, and are not hanging below the dash area. Mount the SMM511 module using screws or double sided tape. Reinstall the lower dash panel.

Gateway Plug and Play Harness (6-pin connector)

1. Locate the vehicles Gateway Module (C2431). It will be mounted below the lower left dash panel.
2. Remove the harness behind the Gateway module by pressing the locking tab and pulling outward.
3. Plug the Female side of the InterMotive Gateway Harness into the back of the Gateway module. Ensure the connection is fully seated and secured by the locking tab.
4. Plug the Male side of the InterMotive Data Link Harness into Gateway harness.
5. Secure the SMM Gateway harness so that it does not hang below the lower dash panel.

Gateway Module

Gateway Harness

InterMotive Plug and Play Gateway Harness

InterMotive Inc.
12840 Earhart Road
Auburn, CA 95602

Phone: (530) 823-1048
Fax: (530) 823-1516
Page 4 of 5

www.intermotive.net
products@intermotive.net
RCMP502-A-INS-120215

RCMP502
S-M1200-71

Status
TEN
NINE
EIGHT
SEVEN
SIX
FIVE
FOUR
THREE
TWO
ONE

InterMotive Vehicle Controls
Made in USA

Back of Connector

Part # S-H54CX

Back of Connector

1	——	N/C	
2	——	N/C	
3	——	N/C	
4	——	N/C	
5	——	N/C	
6	——	N/C	
7	——	N/C	
8	——	N/C	
9	——	GREEN	(Door Output)
10	——	N/C	
11	——	N/C	
12	——	N/C	

1	——	RED	(Battery Voltage)
2	——	YELLOW	(CAN 1 High)
3	——	PINK	(CAN 2 High)
4	——	GRAY	(Ground)
5	——	BROWN	(CAN 1 Low)
6	——	TAN	(CAN 2 Low)

Part # S-H133DX

Attach To The Back Of The OEM Gateway Module

Plug and Play Data Link Harness

Attach To The OEM Gateway Harness

Submit product registration at www.intermotive.net

If the RCMP502-A fails any step in the System Operation Test, review the installation instructions and check all connections.
If necessary, call InterMotive Technical Support at (530) 823-1048