



ONE MODULE, ENDLESS POSSIBILITIES

INSTALL GUIDE

4" MYFORD APPLICATIONS

ARC-MFCAM357



ARC-MFMULTICAM



ARC-MFSAT357



***READ THIS MANUAL CAREFULLY
BEFORE INSTALLATION!***

MODULE REQUIRES CONFIGURATION BEFORE FIRST USE!

MYFORD 4" DISPLAYS

Use this manual for adding backup camera, auxiliary camera, and/or satellite radio to Ford vehicles with a 4" "MyFord" display with 12-pin connector. This install manual is not applicable to "SYNC 3" 4" Displays.

For 8" Sync 2, 8" Sync 3, or 4" Sync 3 display vehicles, see Sync 2/3 product installation guide.

Easy-read Install Manual

Use only the **orange** highlighted tab specific to the product you are installing!

Covered on this Page:
ARC-MFCAM357
ARC-MFMULTICAM
ARC-MFSAT357

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Module Configuration

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ARC-MFMULTICAM

ARC-MFSAT357

Before Installing:

Disconnect negative battery terminal before beginning installation!

DIP Switches must be set before installation of interface module!

Remove 4-to-6 Pin adapter from T-Harness. This is not used.

For vehicle specific instructions for dash disassembly, reference workshop manual.

Visit

www.Arc12Volt.com

For more installation resources

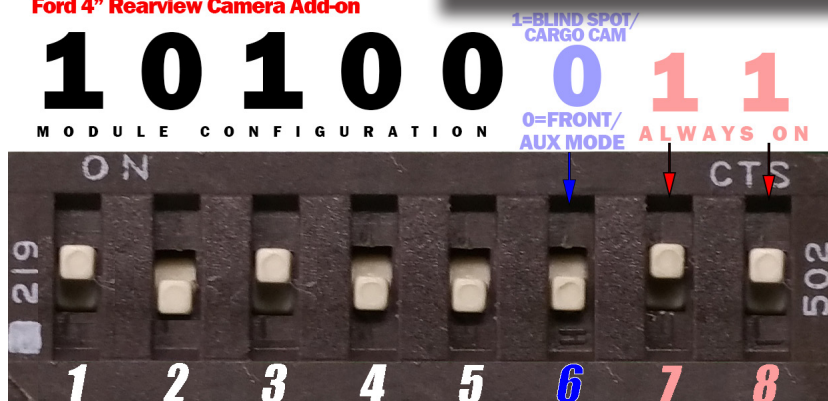
MODULE CONFIGURATION

Module must be configured before first use. Set DIP switches using a pick or suitable tool to the desired configuration while the module is not connected to the vehicle. Switches 1-5 set the configuration, #6 sets the camera behavior, and 7 and 8 should be set to on. See the following sections for more information.

ARC-MFCAM357

Ford 4" Rearview Camera Add-on

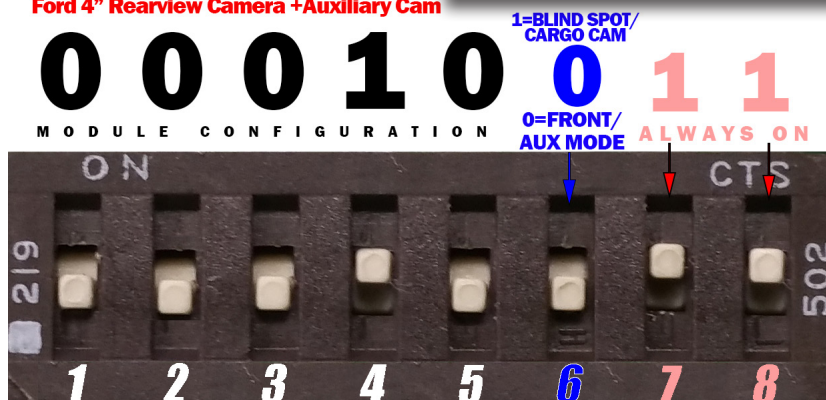
Automatic Programming!



ARC-MFMULTICAM

Ford 4" Rearview Camera +Auxiliary Cam

Uses Programming Jumpers



ARC-MFSAT357

Ford 4" Satellite Radio Add-on

Automatic Programming!



*For both Satellite Radio and Camera add-on, contact supplier.

NOTE: 257357 Modules can only be used on ONE vehicle. The unit is locked by VIN and can be used more than once on the same vehicle in case modules are accidentally reprogrammed.

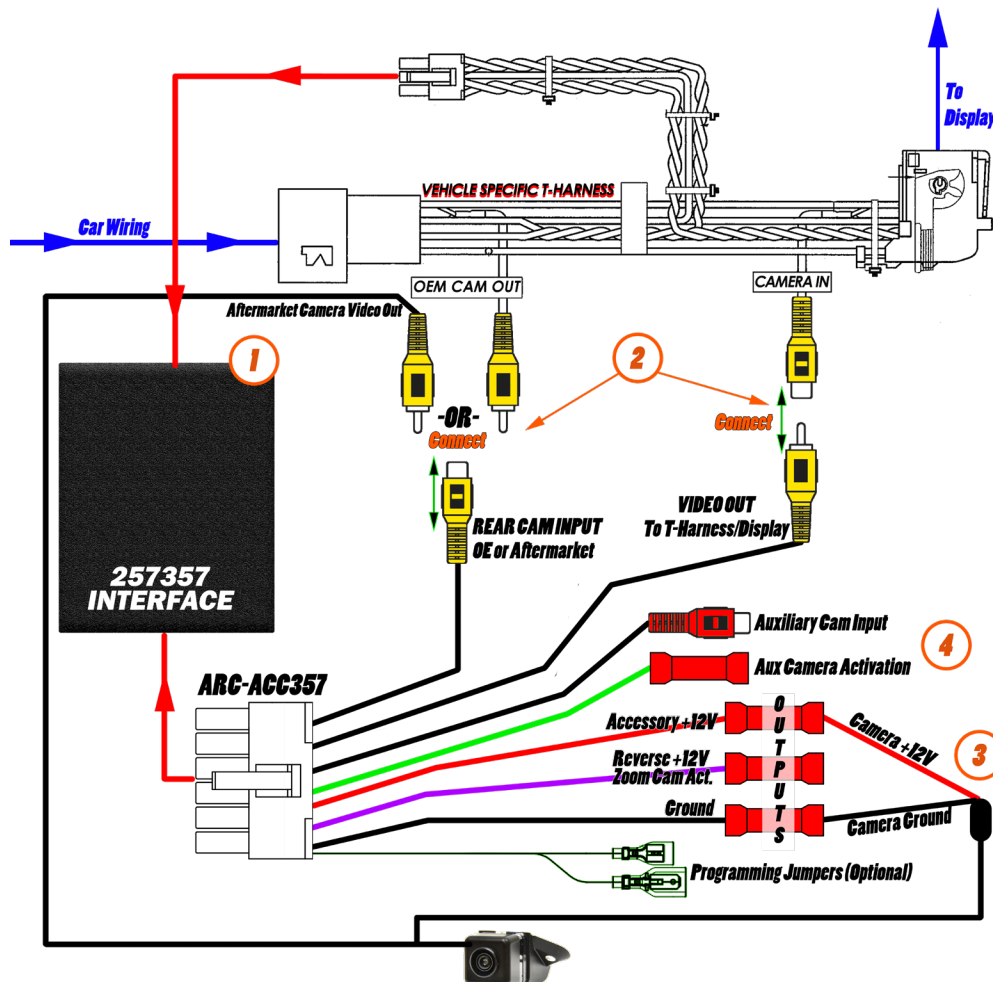
POWER AND SIGNAL CONNECTION

For Satellite Radio Installation, skip to page 6

AUXILIARY CAMERA ADD-ON

with Backup Camera (Existing or Add-On)

For all other applications, continue to next page.



1. Connect 6-pin molex connector from vehicle specific T-Harness & 12-pin molex connector from ARC-357 accessory harness to the 257357 Interface Module
2. Connect RCA connectors from ARC-357 Accessory Harness to T-harness as pictured. Connect OEM Cam Out to "Rear Cam Input" only when utilizing a factory backup camera.
3. Connect camera power to Accessory +12V output & supplied ground. Do not use reverse power for camera.
4. Auxiliary Camera Connection/Activation: *See Page 9*

Proceed to Programming, Page 7

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Accessory Power & RCA Connections

Covered on this Page:

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ARC-MFSAT357

Before Installing:

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Remove 4-to-6 Pin adapter from T-Harness. This is not used.

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Accessory Power & RCA Connections

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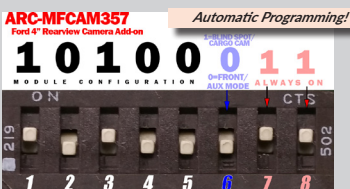
Before Installing:

Disconnect negative battery terminal before beginning installation!

DIP Switches must be set before installation of interface module!

Remove 4-to-6 Pin adapter from T-Harness. This is not used.

For vehicle specific instructions for dash disassembly, reference workshop manual.



Visit

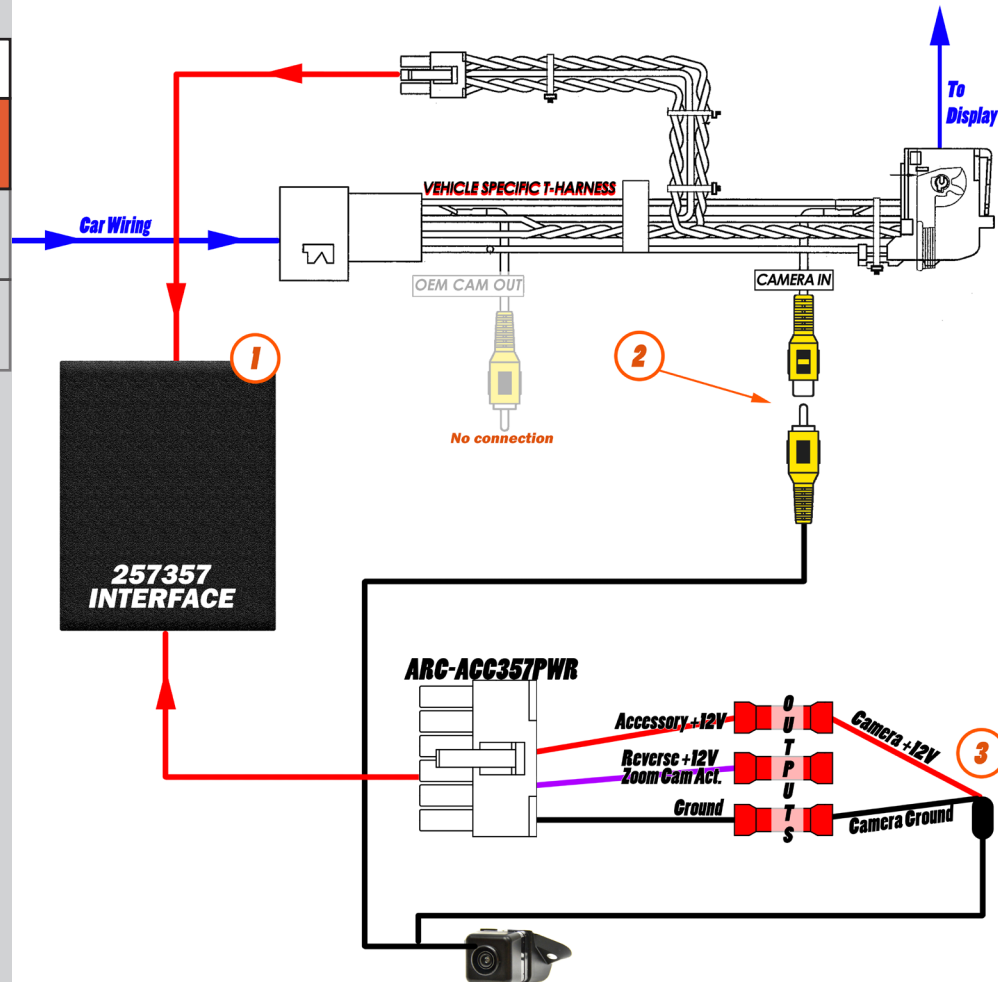
www.Arc12Volt.com

For more installation resources

POWER AND SIGNAL CONNECTION

For Satellite Radio Installation, skip to page 6

REARVIEW CAMERA ADD-ON Without factory backup or Auxiliary camera



1. Connect 6-pin molex connector from vehicle specific T-Harness & 12-pin molex connector from ARC-357PWR accessory harness to the 257357 Interface Module
2. Connect RCA connector from aftermarket rearview or cargo camera to "Camera In" on vehicle specific T-Harness
3. Connect camera power to Accessory +12V output & supplied ground. Do not use reverse power for camera.

Proceed to Programming, Page 7

SATELLITE RADIO INSTALLATION

6

“MyFord” 4” Satellite Radio Add-On

Requires compatible Sirius ready ACM

Radio must be programmed to as-built data prior to installation

WRITE DOWN SIRIUS ESN BEFORE INSTALLING ACM!

Satellite Radio Installation

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1. Install pre-programmed ACM (Radio). *If radio has not been pre-programmed, have a Ford dealership program the radio to as-built data before proceeding.*
2. Remove FCDIM (4” Display) from vehicle and install supplied T-Harness. Remove 4-to-6 Pin adapter and connect interface module to T-Harness. The 12-pin connector on the interface module is not used.
3. Install supplied magnetic mount Sirius antenna on **outside** of vehicle at highest possible point. Use 3M VHB or similar adhesive for installation on aluminum body vehicles. *Factory Ford Sirius antennas and accompanying wiring is compatible with this kit, and may be purchased from your local Ford dealer. **More information on Page 10***
4. Connect antenna to gold FAKRA connector on radio.

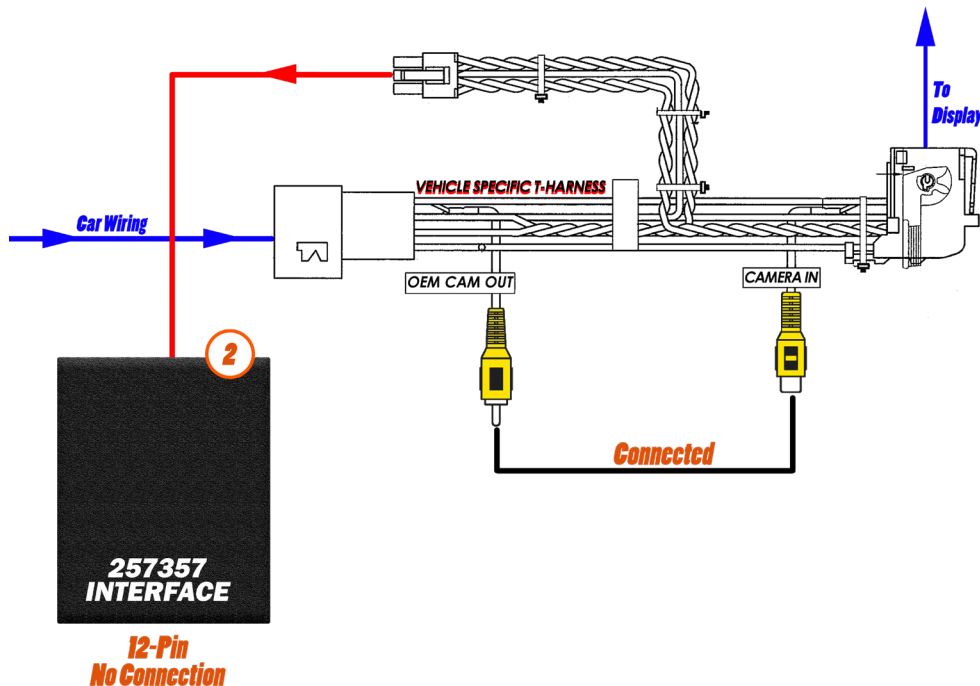
Before Installing:

Disconnect negative battery terminal before beginning installation!

DIP Switches must be set before installation of interface module!

Remove 4-to-6 Pin adapter from T-Harness. This is not used.

For vehicle specific instructions for dash disassembly, reference workshop manual.



Continue to next page for Programming

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Before Installing:

Disconnect negative battery terminal before beginning installation!

DIP Switches must be set before installation of interface module!

Remove 4-to-6 Pin adapter from T-Harness. This is not used.

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For more installation resources

PROGRAMMING

For ALL CONFIGURATIONS

Radio and/or Display Programming Backup Camera and/or Satellite Radio Applications **DIP SWITCHES MUST BE SET BEFORE PROCEEDING!**

Automatic Programming

ARC-MFSAT357 & ARC-MFCAM357

1. With vehicle **Ignition OFF** Install T-Harness with Interface Module behind FCDIM (Display). Connect vehicle battery at this time.
2. Turn vehicle **Ignition to ON/RUN**. Do not start vehicle.
3. Programming will initiate automatically at this time. Display and audio system should **restart twice**. This entire process should take less than 1 minute. Radio display will go black during programming and may display "Diagnostics Mode".
4. Test Programming by placing vehicle in reverse for rear camera operation, or locating "Sirius" source for Satellite radio operation.
5. If programming is unsuccessful, turn key off, disconnect module, verify DIP switch settings, and perform procedure again.

Manual Programming

ARC-MFMULTICAM ONLY

1. With vehicle **Ignition OFF** Install T-Harness with Interface Module behind FCDIM (Display). Connect vehicle battery at this time.
2. Turn vehicle **Ignition to ON/RUN**. Do not start vehicle.
3. Connect programming jumpers. Programming will initiate at this time. Display and audio system should **restart twice**. This entire process should take less than 1 minute. Radio display will go black during programming and may display "Diagnostics Mode".
4. Test Programming by placing vehicle in reverse to test rear camera operation.
5. If programming is unsuccessful, turn key off, disconnect module, verify DIP switch settings, and perform procedure again.
6. After successful programming, **disconnect** programming jumpers. Failure to do so may result in unintended future programming.

See camera operation on Page 8
Sirius satellite radio operation on Page 10

“MyFord” 4” Backup Camera and/or Auxiliary Camera

IMPORTANT NOTES

- If camera functionality is tested without camera(s) fully powered and connected, system may display a “Camera not Available” message and will temporarily disable camera input. Allowing the vehicle to sit for 5 minutes with ignition off will reset the function.
- **Display may stay in reverse camera mode until vehicle is driven to 7MPH.** This is a factory function and cannot be changed.
- The zoom icon can only be used with a compatible zoom camera.
For interfacing the zoom icon, see page 12 - “Optional Modes”
- Adding camera to a 4” MyFord display not already equipped requires a compatible 4” Display. Your kit supplier can tell you if your display is compatible. You can also measure resistance between pins 6 and 12 on the back of the display. If resistance is ~75 Ω, display is camera compatible.

Manual Activation

- On compatible vehicles, the secondary camera can be activated by pressing and holding the “OK” button for 3 seconds on either the radio controls, or the steering wheel. Press the “OK” button once more to return to normal operation. If the OK Button does not work, try the SYNC Voice command button. *See diagrams*
- Note: ARC-MFCAM357 Single Cam Kit will allow manual activation of the backup camera using the OK button, but the DIP Switches must be changed to the ARC-MFMULTICAM configuration **after** programming.
- The ARC-MFMULTICAM also has a manual activation wire that can be connected to +12V or Ground to activate the secondary camera.
- Blind Spot mode will automatically activate the aux camera with the right blinker in compatible vehicles. If your vehicle is not compatible, you will need to use the manual trigger wire.

Default Auxiliary Camera Behavior

Front/Aux/Cargo Mode

DIP Switch #6 = OFF

- Speed Limited to 7MPH*
- No activation time limit
- For off-road use only
- Backup Camera Priority over Auxiliary Camera*

Blind Spot/Aux Mode

DIP Switch #6 = ON

- Time Limited to 30 Seconds*
- No activation speed limit
- Automatic right blind spot triggering in compatible vehicles*

**Can be adjusted with ARC-357 PC Configuration Tool*

Camera Operation & Behavior

Covered on this Page:

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ARC-MFSAT357

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For vehicle specific instructions for dash disassembly, reference workshop manual.

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For more installation resources

Camera Activation & Wiring

Covered on this Page:

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Visit

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For more installation resources

CAMERA OPERATION & ACTIVATION

For Satellite Radio skip to Page 10

Auxiliary Camera Activation:

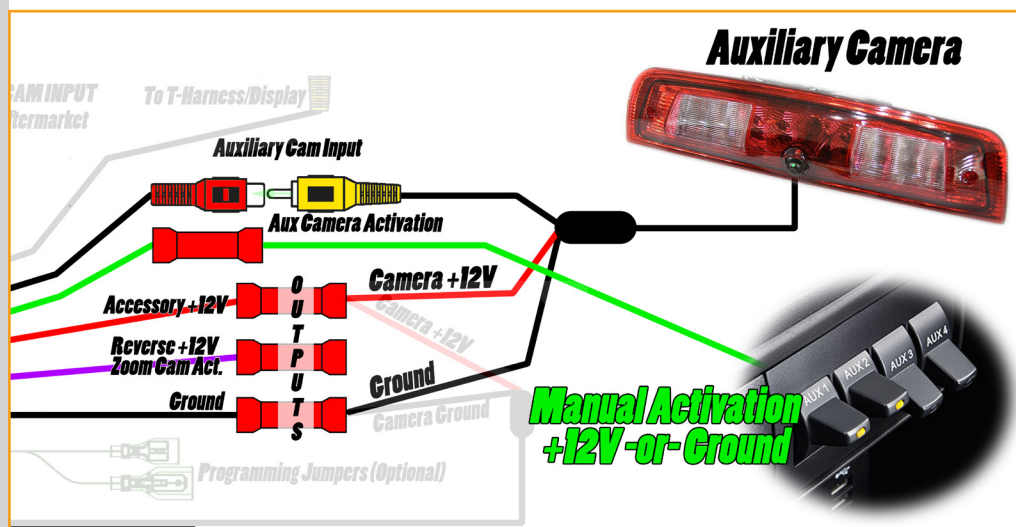


Note:

On some vehicles, such as F-Series SuperDuty, the OK Button will not activate the AUX camera.

Press and hold the **SYNC Voice Command** button to enter the auxiliary camera and **Volume Down** to exit.

Aux Camera Wiring Example: Cargo Cam w/ARC-MFMULTICAM



Accessing Sirius on vehicles without a 'SAT' button:



Note: To scroll through the following menus and make adjustments, press ▲ / ▼ or ◀ / ▶. Press ◀ to return to the previous screen or ▶ to advance to the next screen. At any time, you can press MENU to lose the menu screen.

to get to SIRIUS (if equipped): From AM/FM, hit ◀ **Twice OR MORE** to bring you to list of sources. Scroll down and select Sirius.

- **Scan:** Select for a brief sampling of all available channels.
- **Show ESN:** Select to view your Satellite Radio Electronic Serial Number (ESN). You will need this number when communicating with SIRIUS_ to activate, modify or track your satellite radio account.
- **Channel Guide:** Select to view a listing of available satellite radio channels. Press OK or to enter the Channel Guide and then scroll through available channels. In this guide, you can choose to Tune Channel, Skip Channel or Lock Channel by pressing the OK button when the desired channel is selected. Once a channel has been skipped or locked, you can only access those channels by pressing Direct and entering in the channel number. Locking or unlocking a channel also requires you to enter your PIN.
- **Set Category:** Select to scroll through a list of available SIRIUS_ channel categories (Pop, Rock, News, etc.) **Note:** If you select a category, the seek and scan functions will only stop on channels in that category.
- **Alerts:** Select this to create an alert for a particular song or artist or team. The system will then alert you when it is playing on another channel. From this screen you can also maintain alerts, enable/disable and delete alerts from your list. You can save up to 20 alerts. If you attempt to save an alert and your list is full, the system will prompt you to delete one.
- **Unlock All Stations:** Select this and use your PIN to unlock all previously locked channels (from the parental lock feature).
- **Skip No Stations:** Select this feature and use to 'unskip' all channels you previously selected to skip.
- **Parental Lock (PIN):** Select to create a PIN which will allow you to lock or unlock certain channels. **Note:** Your initial PIN is 1234.

Satellite Radio Operation

Covered on this Page:

ARC-MFCAM357

ARC-MFMULTICAM

ARC-MFSAT357

Before Installing:

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Visit
www.Arc12Volt.com
For more installation resources

Satellite Radio Antenna Install

Covered on this Page:

ARC-MFCAM357

ARC-MFMULTICAM

ARC-MFSAT357

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SATELLITE RADIO ANTENNA INSTALL

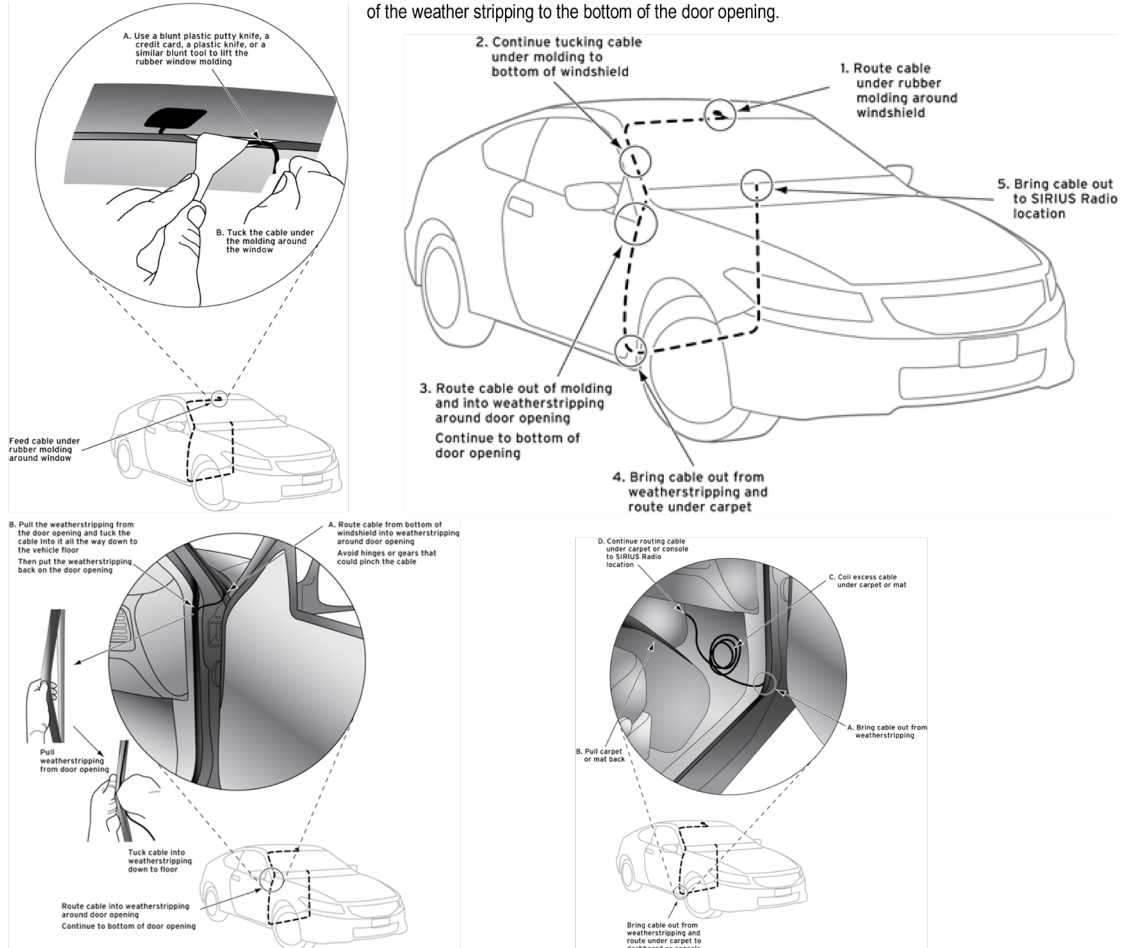
Additional Instructions

Sat Radio Antenna Routing:

Routing the Antenna Cable from the Windshield

Here's how to route the antenna cable from the Magnetic Mount Antenna to your SIRIUS Radio, when the antenna is mounted above the windshield. See the detailed explanations below the main illustration. You can also view the detailed break-out illustrations for each major step by clicking on the link that is highlighted in blue in each section.

1. Use a plastic blunt putty knife, a credit card, a plastic knife, or similar blunt tool to lift the rubber molding around the windshield and tuck the antenna cable underneath it.
2. Continue tucking the cable underneath the windshield molding around the windshield to the lowest corner.
3. At the lowest corner of the windshield, route the cable out of the windshield molding and into the rubber weather stripping around the door opening. Lift the weather stripping from the opening and tuck the cable inside it. Then replace the weather stripping. Run the cable inside of the weather stripping to the bottom of the door opening.



4. Pull the cable out of the weather stripping at the bottom of the door opening and route it under the carpet toward the dashboard. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with cable ties or wire ties.
5. Bring the end of the cable out near your XM Radio location. Leave yourself enough cable so you can easily connect it to the radio.

Image and instructions credit: www.SiriusXM.com

Fore more information on antenna installation, visit:

shop.siriusxm.com/installation

OPTIONAL MODES

Advanced Installations

12

Optional Modes Advanced Install

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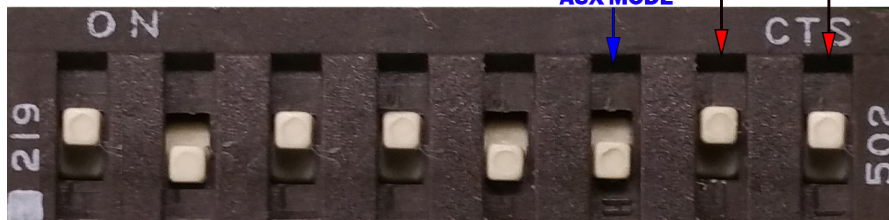
ARC-MFMULTICAM

ARC-MFSAT357

4" Cam with Zoom Output

Uses Programming Jumpers

1 0 1 1 0 0 1 1
MODULE CONFIGURATION
1=BLIND SPOT/
CARGO CAM
0=FRONT/
AUX MODE
ALWAYS ON

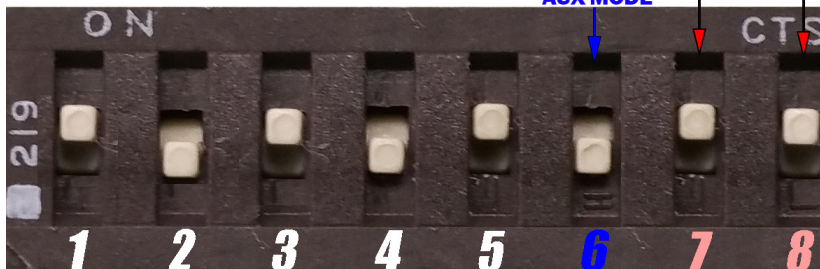


- Purple "Reverse Out" wire on ARC-ACC357 Harness becomes 12v+ when "Zoom" button on display is pressed.
- Zoom cameras with negative trigger will require a relay for installation.



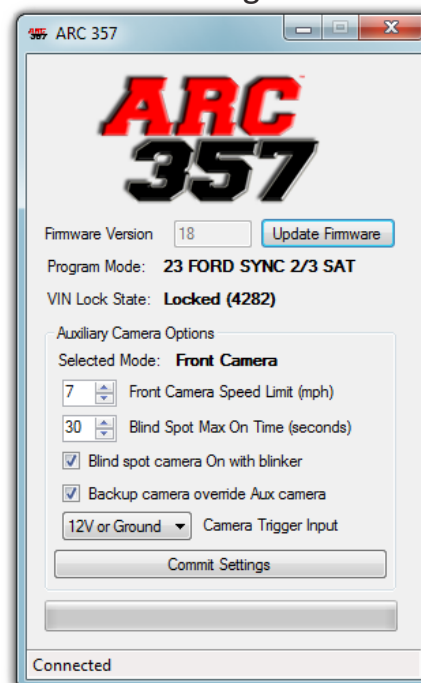
4" Satellite AND Camera

1 0 1 0 1 0 1 1
MODULE CONFIGURATION
1=BLIND SPOT/
CARGO CAM
0=FRONT/
AUX MODE
ALWAYS ON



- Automatic Programming for ARC-MFCAM357 Only
- Manual Programming for ARC-MFMULTICAM Only, **USE 00100**
- Requires pre-programmed ACM with Built-in Sirius radio
- Will not enable sirius on factory radio if not already equipped

ARC-357 Configuration Tool



Update firmware, check VIN lock,
set custom options, and more!

Free download on
www.Arc12Volt.com

Visit

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ARC
357
ONE MODULE. ENDLESS POSSIBILITIES

REAR-VIEW CAMERA TROUBLESHOOTING GUIDE

Problem	Probably Cause	Correction
Screen display is blank, blue, or displays "No Camera Available"	<p>Ford Vehicles: Incompatible Display</p> <p>Camera not powered on</p> <p>Video RCA connectors not connected properly</p> <p>Faulty Camera</p>	<p>1. Replace Display with compatible display - See chart.</p> <p>1. Confirm 12V ACC power is supplied to camera.</p> <p>2. Confirm camera not powered from reverse signal or reverse bulb.</p> <p>1. Rear view camera only kit: Plug camera directly into T-harness at rear of display "Camera In".</p> <p>2. Multi-Camera Kit: Refer to diagram for RCA routing. Confirm "Video out" from black box is connected to "Camera/Video In" on T-Harness behind display.</p> <p>1. Use test camera powered by 12V constant and plugged directly into T-Harness behind display to verify.</p> <p>2. Replace Camera.</p>
Screen does not change when vehicle is put into reverse	<p>DIP Switches are not set properly</p> <p>Camera signal not available</p> <p>Vehicle has not completed re-learn procedure</p>	<p>1. Check DIP Switch configuration - See chart in manual.</p> <p>2. Flip each DIP switch back and forth once to ensure proper seating of switch.</p> <p>1. See "Screen Display is blank" troubleshooting.</p> <p>2. Ford 4" displays will disallow video signals if tested without a signal until the vehicle has completed a full power cycle.</p> <p>1. Ford Vehicles: After verifying DIP switch settings, unplug module with key off. Reconnect module and follow programming instructions again.</p> <p>2. Chrysler Vehicles: Radios require two full power cycles before programming will be accepted. To properly shut down the vehicle, turn key off, open and close drivers door, and lock vehicle. Push-to-Start or Proximity-key vehicles should have the key moved 15ft away from vehicle. Allow vehicle to sit for 5 minutes. Perform this process twice.</p>
Vehicle displays blue screen only when right blinker is used	<p>Module set to "Blind Spot" mode</p>	<p>1. Set DIP Switch number 6 to "Off/0".</p> <p>2. OR Use ARC-357 Configuration tool to disable automatic blind spot activation.</p>