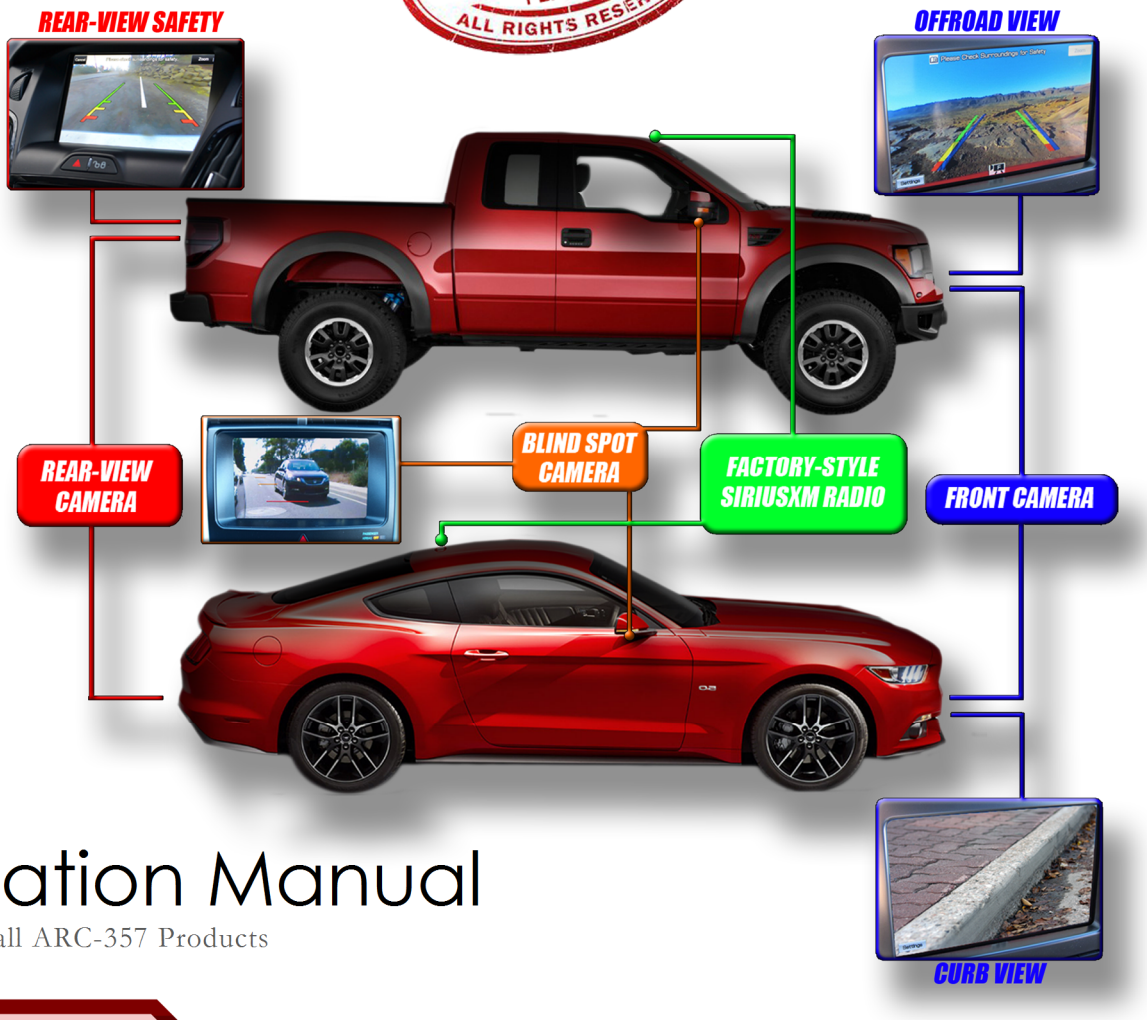
ARC 357

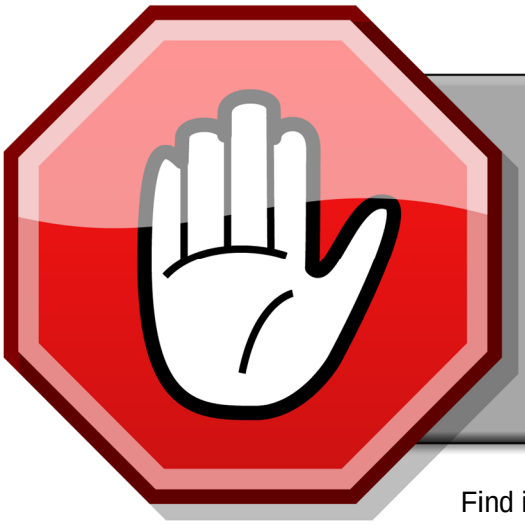
ONE MODULE, ENDLESS POSSIBILITIES

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Installation Manual

Encompassing all ARC-357 Products



READ THIS MANUAL CAREFULLY BEFORE INSTALLATION!

MODULE REQUIRES CONFIGURATION BEFORE FIRST USE!

Find installation help and product info at www.ARC12VOLT.com

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II. Installation Instructions

Module Configuration

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2.2 Universal Installation Instructions

III. **Vehicle Specific Installation Instructions**Error! Bookmark not defined.

3.1 "MyFord" 4" Display Backup Camera add-on

3.2 Chrysler "CMC" RA2/RA3/RA4

3.3 Chrysler "MyGig" RER/REN/RBZ/RHB/RHR

IV. **Front/Auxiliary Camera Add-on**

4.1 Universal Installations

4.2 MyFord/MyFord Touch Installation

4.3 Chrysler Installation

V. **Technical Support and Disclaimers**

2 MODULE CONFIGURATION - A

Modules must be configured before first use. *To configure, please consult the following chart based on your application.*

DIP Switches must be set with module disconnected from power!!

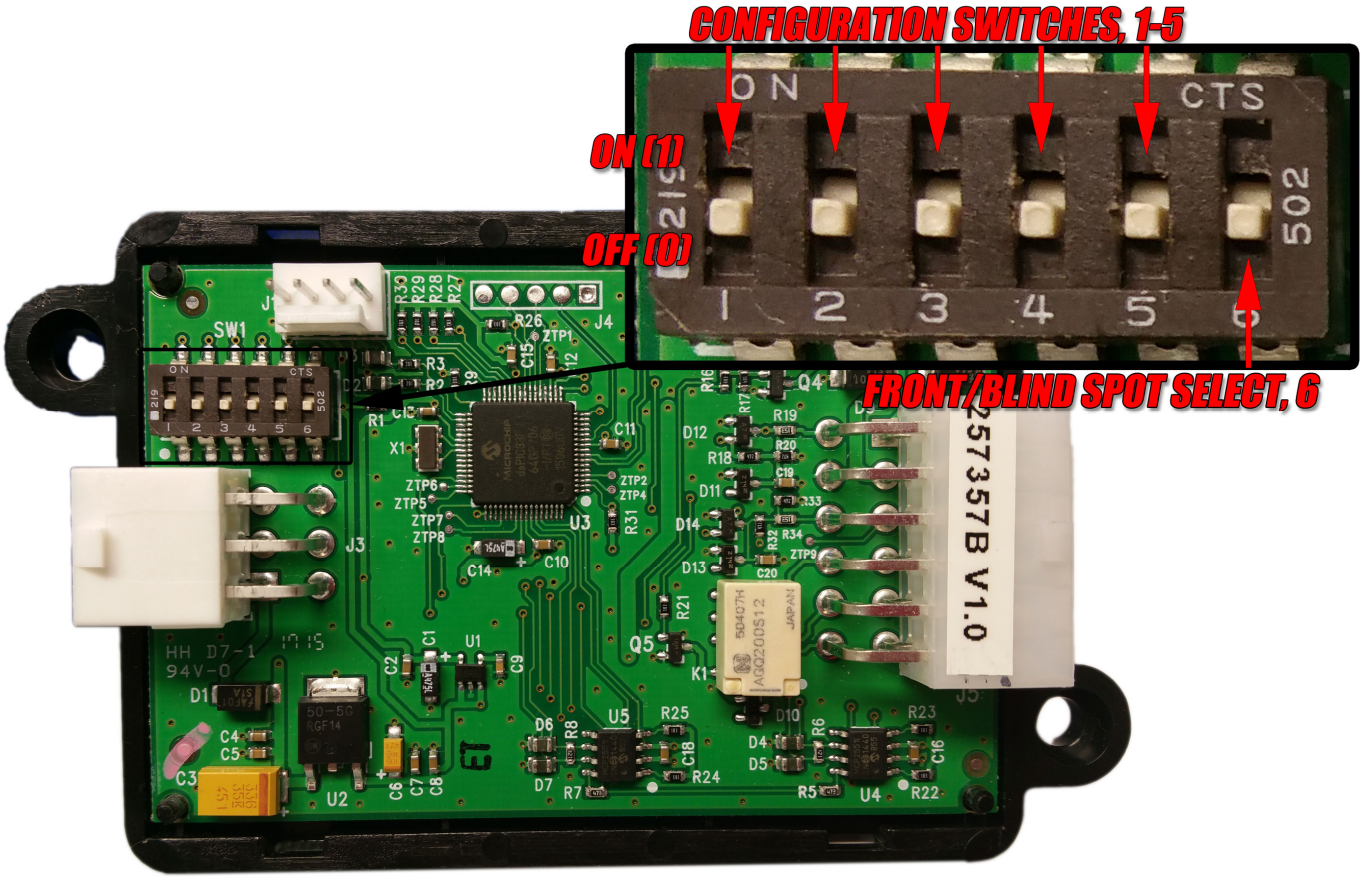
(1) Indicates a dip switch in the ON/UP position

(0) Indicates a dip switch in the OFF/DOWN position

Config #	Dip Set	Description	Details Page #
0	**00000**	MyFord Satellite Radio add-on with Front/Side Camera	Supplement
1	**00001**	MyFord Sat Tuner UNPROGRAM (Coming Soon)	Supplement
2	**00010**	MyFord Camera with Front/Side Camera	3.1
3	**00011**	MyFord Camera UNPROGRAM (Coming Soon)	3.1
4	**00100**	MyFord SAT and Camera with Front/Side Camera	3.1
5	**00101**	MyFord SAT and Camera UNPROGRAM (Coming Soon)	3.1
6	**00110**	Fiesta Sat & CD	Supplement
7	**00111**	CMC Chrysler Rear Camera (RA2, RA3, RA4)	3.2
8	**01000**	CMC CD & Rear Camera (RA1, RA2, RA3, RA4)	3.2
9	**01001**	CMC CD(RA1, RA2, RA3, RA4)	Supplement
10	**01010**	CMC UF Proxi Camera (Small - 200) (RA2, RA3, RA4)	Coming Soon
11	**01011**	CMC UF Proxi Camera UNPROGRAM (RA2, RA3, RA4)	Coming Soon
12	**01100**	CMC KL Proxi Camera (Large - Cherokee) (RA2, RA3, RA4)	Coming Soon
13	**01101**	CMC KL Proxi Camera UNPROGRAM (RA2, RA3, RA4)	Coming Soon
14	**01110**	CMC Front/Aux Cam Only (RA2, RA3, RA4)	4.3
15	**01111**	NTG4 Camera - **MYGIG High Speed** Radios(RER, REN, RBZ, RHB, RHR)	3.3
16	**10000**	NTG4 Camera - **MYGIG Low Speed** Radios (RER, REN, RBZ, RHB, RHR)	3.3
17	**10001**	CTP Chrysler	Coming Soon
18	**10010**	MyFord/MyFord Touch Front/Aux Camera only	4.2
19	**10011**	MyFord Sat Tuner - Automatic Program (Does not use programming jumpers)	Supplement
20	**10100**	MyFord Camera - Automatic Program (Does not use programming jumpers)	Supplement
21	**10101**	MyFord SAT and Camera - Automatic Program (Does not use programming jumpers)	Supplement
22	**10110**	MyFord Camera with Zoom Button Output	3.1a
23	**10111**		
24	**11000**		
25	**11001**		
26	**11010**		
27	**11011**		
28	**11100**		
29	**11101**		
30	**11110**		
31	**11111**		

2.1 DIP SWITCH CONFIGURATION

To set the dip switches, refer to the graphic below. ***Only dip switches 1-5 set the main configuration.*** *The* ***6th*** *dip switch changes between Front/Aux camera mode(****OFF/0****), and Blind Spot/Cargo camera mode(****ON/1****).*



DIP Switches must be set before installation for module to work properly. Failure to do so may result in unintended consequences.

Use the dip switch configuration guide to set the first five switches to the corresponding profile, setting them from left to right with 1 meaning ON and 0 meaning off. The 6th dip switch is only used for Front / Auxiliary cam functions. More information on Front / Auxiliary camera functions can be found in section 4 of this guide.

Important Note:

If you are not installing a Front or Side-view camera, ensure Dip Switch # 6 is set to 0.

Failure to do this may cause the radio screen to go blank when the turn signal is activated on certain vehicles.

2.2 INSTALLATION - GLOBAL

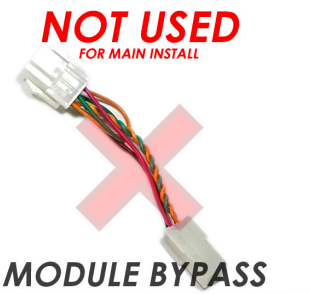
Refer to this section for basic installation techniques. Refer to the specific section of this guide based on the configuration for your individual install.

Step 1: Install vehicle specific T-Harness:

Power vehicle down and disconnect negative battery terminal. Remove dash assembly to gain access to radio/display interface. Disconnect factory display or radio and install the corresponding vehicle specific T-harness.

Step 2: Install module on T-Harness:

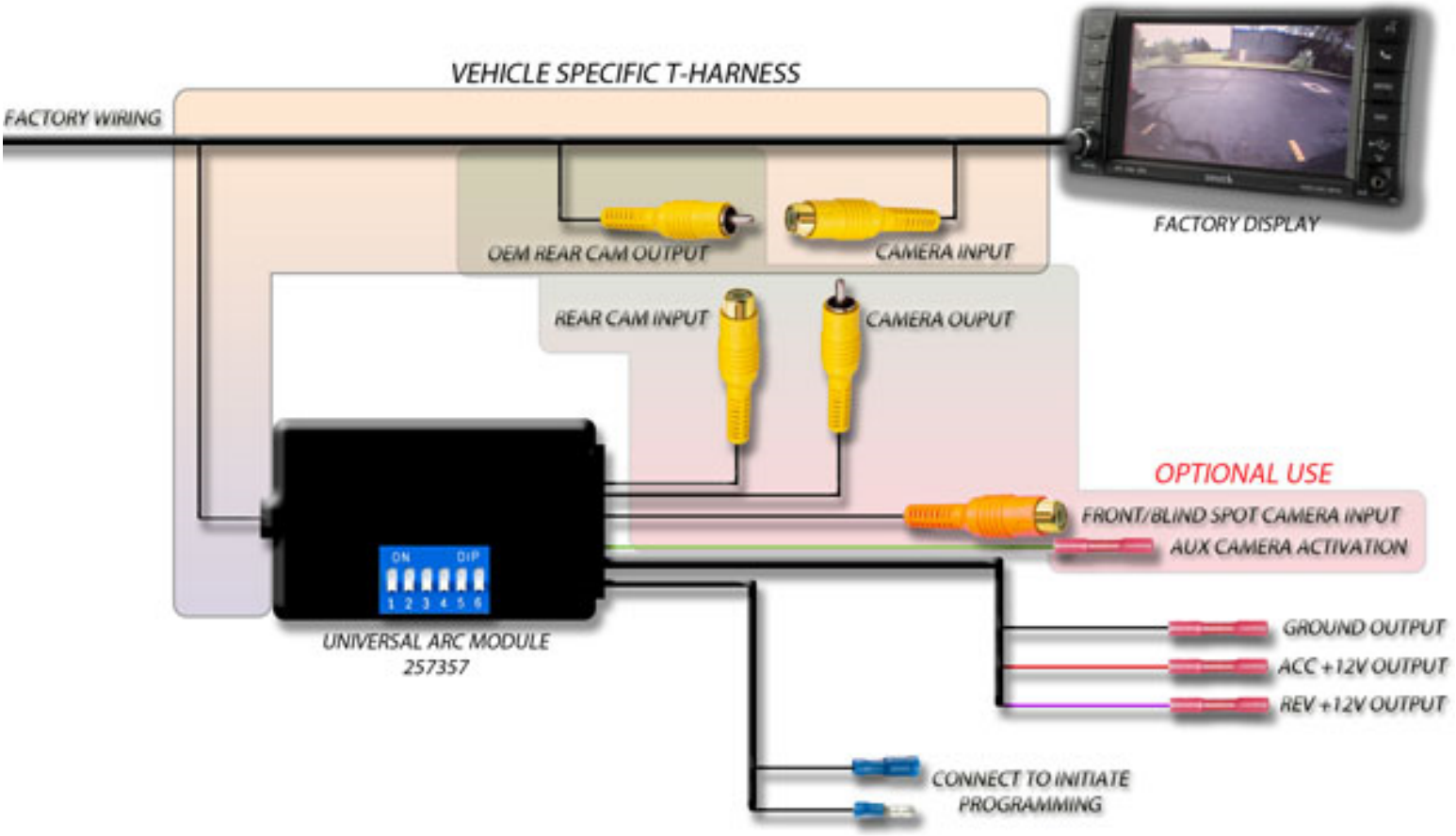
Harnesses will come with adapters to be compatible with previous generation products. You will not use these adapters in this install with the ARC-357 module. **Remove 6-pin to 4-pin adapter** from T-Harness. Connect 6-pin connector on T-harness directly to module.



Step 3: Install ARC-ACC357 Harness (If applicable):

ARC-ACC357 is used for camera related installs. If this harness was provided, connect it to the 14-pin connector on the ARC-357 module. This harness will allow you to connect two video sources and one video output. Connect the RCA connectors based on your desired configuration of camera(s).





Step 4: Connect camera power (If applicable):

The ARC-ACC357 provides one 4 amp accessory output for powering camera(s). Use this output to power your camera(s), **not** the reverse output as this may cause issues with camera delay.

Step 5: Finish accessory installation

Make sure all cameras used with this system are connected to the appropriate RCA connections and power connections. Reconnect battery at this time.

Step 6: Proceed to vehicle specific section

Using the configuration guide, proceed to the profile-specific section of this installation manual to complete the installation.

3 VEHICLE SPECIFIC INSTALLATION INSTRUCTIONS

DIP-SWITCHES MUST BE SET BEFORE PROCEEDING!

Refer to guide on page 2.

3.1 4" MYFORD BACKUP CAMERA ADD-ON/SATELLITE RADIO ADD-ON

For Satellite Radio Installation refer to the ARC-MFSAT Supplement Installation Manual

Vehicle Applications: (See Compatible Displays)

- 2011+ Edge, Explorer, MKX
- 2012+ Focus
- 2013+ C-MAX, F150, Flex, Fusion, Taurus
- 2014+ Fiesta, Transit, Transit Connect

Requires:

- FRD09-BC3M2 Vehicle Specific T-Harness

Step 1: Verify display compatibility

Not all Ford 4" Displays are camera-compatible. If adding a backup camera, first remove the display and verify that it is compatible. Your Ford dealership can also verify this number by VIN.

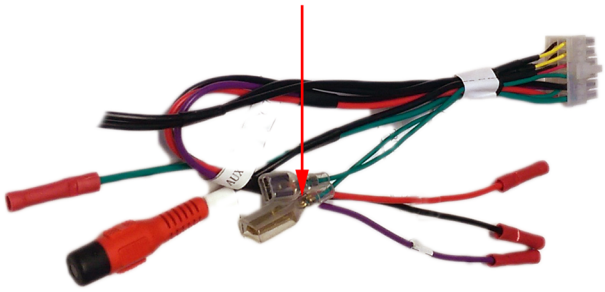
COMPATIBLE DISPLAYS		
BB5T-19C116-CK	DG1T-18B955-CD	EG1T-18B955-CA
BT4T-19C116-CP	DL3T-18B955-CC	EG1T-18B955-CD
CB5T-19C116-CC	DL3T-18B955-CD	EJ5T-18B955-CC
CB5T-19C116-CD	DL3T-18B955-CF	EJ5T-18B955-GA
CB5T-19C116-GC	DL3T-18B955-CG	EJ5T-18B955-GB
CB5T-19C116-GD	DS7T-18B955-CE	EL3T-18B955-CE
CK4T-18B955-CF	DS7T-18B955-CF	EM5T-18B955-CF
CM5T-18B955-CF	DT4T-19C116-CA	EM5T-18B955-JB
CM5T-18B955-GB	DT4T-19C116-CB	ES7T-18B955-CA
CM5T-18B955-GD	DT4T-19C116-CC	ES7T-18B955-CB
CM5T-18B955-GE	DT4T-19C116-CD	ET4T-18B955-CC
CM5T-18B99-GG	DT4T-19C116-GB	ET4T-19C116-GG
DA8T-18B955-CD	DT4T-19C116-GD	FB5T-19C116-CA
DA8T-18B955-CF	EA8T-18B955-CB	FB5T-19C116-GA
DB5T-19C116-CA	EB5T-18B955-GA	FG1T-18B955-CA
DB5T-19C116-CB	EB5T-18B955-GC	FR3T-18B955-CG
DB5T-19C116-GA	EB5T-19C116-CA	ET4T-19C116-CD
DB5T-19C116-GB	EB5T-19C116-CD	

INCOMPATIBLE
BB5T-19C116-CJ
BT4T-19C116-CN
CE8T-18B955-AA
CE8T-18B955-AD
CJ5T-18B955-GC
CJ5T-18B955-GE
CJ5T-18B955-GF
CM5T-18B955-AB
CM5T-18B955-AD
CM5T-18B955-CE
CM5T-18B955-GF
CM5T-18B99-AD
D2BT-18B955-BE
DA6T-18B955-BB
DM5T-18B955-CD
EM5T-18B955-CA
EM5T-18B955-CB

Step 2: Programming procedure

1. Verify correct module DIP switch configuration (See Page 1).
2. With module connected to vehicle specific T-Harness, and display connected, power vehicle on to **IGN** (Do not start vehicle).
3. With vehicle ignition turned on and radio display on and connected, connect the two jumper wires together. This will initiate the programming procedure.

PROGRAMMING INITIATION JUMPER WIRES
CONNECT TO INITIATE PROGRAMMING



4. Within 10 seconds radio display should display "Diagnostics mode" and shut off. Radio display will turn back on, and should shut off one more time. Once radio and display have shut down **twice** and came back on, programming is complete. The entire process should take less than two minutes.

5. If the programming does not work successfully, disconnect module power, verify the DIP switch settings, reconnect module, turn the vehicle off and then on again, and try again.

6. **Disconnect and isolate the jumper wires** to prevent accidental programming.

FAILURE TO FOLLOW STEP 6 COULD RESULT IN DISPLAY RESETTING EVERY TIME VEHICLE IS POWERED ON

Step 3: Verify operation

Your display should now be programmed to accept a backup camera. To test this feature your backup camera must be connected to the RCA connection **and** power. Start the vehicle and place the vehicle in reverse with your foot firmly on the brake. The display should switch to the backup camera at this time. If it does not, please see the next step.

Step 4: Troubleshooting

If vehicle is placed in reverse and display reads "Camera Not Available", programming was successful, but the display is not getting a video signal. This can be caused by any of the following:

1. Backup camera is not connected
2. Backup camera is not powered on (Test for battery voltage with the car on)
3. Display is not compatible with a camera (see compatibility guide)
4. Video inputs are not routed correctly to be used with a rear camera (see section 4.1)

Ford 4" Screen important notes:

- If Camera is tested before camera is powered and connected, system must be fully shut down and turned back on before camera will work again.
- Depending on vehicle configuration, display may stay in reverse camera mode until vehicle is driven to a pre-determined speed. **This is a factory function.**
- Some displays will show a magnifying glass (zoom) icon on the display. This is meant to be used with an OEM Camera with zoom function. It is not compatible with any aftermarket cameras and cannot be disabled.

Unprogramming / Reset to factory

This module can be used to return the vehicle to factory in the case the customer wants it uninstalled. Once this is complete the module can then be used on another VIN. Until the unprogram routine is run, the module is locked to the VIN of the vehicle it is currently installed in.

To unprogram the vehicle, disconnect the module, set the DIP switches to the corresponding "Unprogram" profile, reconnect the module and wait for the display to reset twice the same as in the programming procedure.

3.1A: MyFord Camera with Zoom Button Output

This mode is identical to Config #2, but the "Reverse Output" purple wire will now offer a 12V+ Output when the OEM "Zoom" button is pressed on the display/button panel. This will work whether the display is equipped with a factory "zoom" button or not.

This mode will only work with an aftermarket camera with a manually activated zoom function. May require a relay for installation using ground-switched cameras.



3.2 CHRYSLER CMC CAMERA/CD ADD-ON

For CD Player Installation, Please Refer to CD Supplement Installation Manual

Vehicle Applications:

- 2013+ Ram Truck
- 2014+ Grand Cherokee, Durango
- 2015+ Charger, Challenger, 300

Requires:

- ARC-CHRY52 or ARC-CHRY52R2

Step 1:

Before installing T-Harness, ensure car is given time to fully "shut down". You can do this by turning the car off, opening and closing the driver's door, and allowing the car to sit for 5 minutes.

Step 2:

Install module on T- Harness and connect to radio **before** connecting to vehicle wiring.



Step 3:

With camera connected and powered, power vehicle on, and then shut off allowing the radio to fully shut down once more. **Note: The radio must perform two full power cycles after module is installed to accept new programming.**

Step 4: Turn vehicle on to IGN and verify rear-view camera operation by placing the vehicle in reverse with your foot firmly on the brake.

Troubleshooting:

If vehicle does not go into camera mode when placed in reverse, verify the DIP switch settings and try turning the vehicle on and off with a full shutdown once or twice more. If this does not work, disconnect the negative battery for 5 minutes and reconnect.

Note: If vehicle is equipped with a **cargo cam**, it will be disabled and replaced by the rear-view camera. You can use the auxiliary cam input to manually display your cargo camera. Use the "OEM Cam output" on the ARC-CHRY52R2 harness to connect to the "Aux Cam In".

3.3 CHRYSLER "MYGIG" CAMERA/CD ADD-ON

Vehicle Applications:

"LOW SPEED" Radios - Profile # 16			"HIGH SPEED" Radios - Profile # 15		
2011	2014	200	2008	2015	Grand Caravan
2008	2010	300	2008	2015	Liberty
2008	2009	Aspen	2008	2011	Nitro
2008	2014	Avenger	2009	2012	Ram
2009	2012	Caliber	2008	2015	Town and Country
2009	2014	Challenger	2007	2015	Wrangler
2008	2010	Charger	2011	2013	Grand Cherokee
2008	2010	Commander	2011	2013	Grand Cherokee
2009	2015	Compass	**DIP Setting: 01111**		
2008	2012	Dakota			
2008	2009	Durango			
2008	2010	Grand Cherokee			
2009	2010	Journey			
2008	2008	Magnum			
2009	2015	Patriot			
2008	2010	Sebring			
DIP Setting: 10000					

Requires:

- ARC-CHRY22 & ARC-CHRY22VES

Step 1:

Before installing T-Harness, ensure car is given time to fully "shut down". You can do this by turning the car off, opening and closing the driver's door, and allowing the car to sit for 5 minutes.

Step 2:

Install module on T- Harness and connect to radio **before** connecting to vehicle wiring. See universal wiring for information on connecting camera(s)(§4). The ARC-CHRY22VES also adds optional input/outputs for DVD video. These video leads can be disconnected if not used.

Step 3:

With camera connected and powered, power vehicle on, and then shut off allowing the radio to fully shut down once more. **Note: The radio must perform two full power cycles after module is installed to accept new programming.**

Step 4: Turn vehicle on to IGN and verify rear-view camera operation by placing the vehicle in reverse with your foot firmly on the brake.

Troubleshooting:

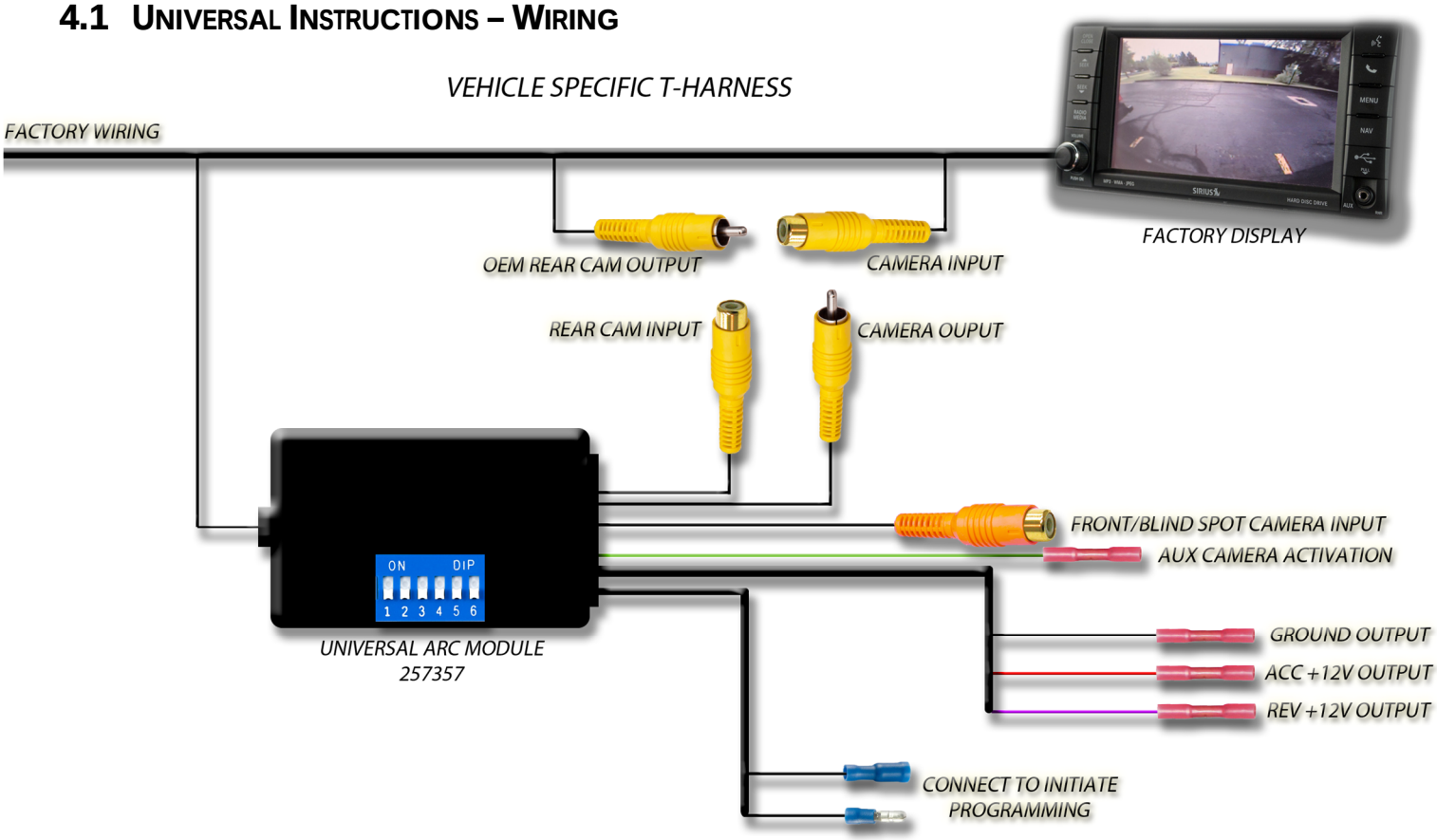
If vehicle does not go into camera mode when placed in reverse, verify the DIP switch settings and try turning the vehicle on and off with a full shutdown once or twice more. If this does not work, disconnect the negative battery for 5 minutes and reconnect.

4 FRONT/BLIND SPOT/CARGO CAMERA UNIVERSAL INSTALLATION

This kit adds the ability to add an auxiliary camera to any of its configurations, including vehicles that already come with a factory backup camera.

This is an advanced installation and may require wiring diagrams, relays, and soldering.
Professional installation is required!

4.1 UNIVERSAL INSTRUCTIONS – WIRING



Connections:

Connect RCA connectors as labelled. There is also a ground activation trigger to be used to activate the camera.

Behavior:

Front/Aux/Cargo Camera Mode (DIP Switch # 6 OFF): This kit will only function up to 7MPH in Front Camera Mode. This mode is for off-road use **only**. It is not to be used as a driving aid on public roads. At 7MPH the manual activation is disabled.

Blind Spot Camera Mode (DIP Switch # 6 ON): The kit will work at any speed while in Blind Spot camera mode, but will only work for up to 30 seconds at a time. This will switch to the blind spot camera automatically with the right blinker on certain vehicles.

4.2 MyFord/MyFord Touch Installation

The auxiliary camera can be activated by pressing and holding the "OK" button for 3 seconds on either the radio controls or the steering wheel controls. A simple press of the OK button will exit Front/Cargo/Blind Spot camera modes.

For manual/hardwire activation, use the green wire to connect to a ground activation to enable the auxiliary camera.

For **blind spot use**, this kit will **automatically** switch the camera on with the **right** blinker in certain vehicles. Test this functionality by turning using the right blinker with all cameras connected. If it does not automatically switch, you will need to use a relay to trigger the manual input on the green wire from the blinker wire in the car. The module is set to accept a pulsing input for this signal.

For front camera use, the module can be wired to a ground switch or to an accessory capable of providing a ground output such as curb sensing accessories.



4.3 CHRYSLER CMC/MYGIG INSTALLATION

Front Camera Use:

To use front camera, wire the green wire to a switch to ground. Activating this input will enable the front camera input at speeds up to 7MPH.

Blind Spot Camera Use:

For CMC Vehicles: To use the blind spot camera, simply put the 6th DIP switch in Blind Spot mode and connect your camera to the auxiliary camera input. The display will automatically switch to Blind Spot camera mode when the vehicles right turn signal is activated.

For MyGig Vehicles: Use the green manual activation trigger connected to the turn signal activation. You may need to use a relay to activate this input. Note: This is an advanced installation, verify all wires before making connections.

Cargo Camera Use:

This kit will work with a factory installed cargo camera or an add-on camera. If the cargo camera was installed from the factory and replaced as the default by the backup camera, simply connect the "Camera Output" from the factory T-Harness to the "Aux Camera Input" on the ARC-ACC357 harness. You can now use the green wire to manually activate the cargo camera. Set the camera mode to "Front Camera". **Note:** Using the Blind Spot camera setting will result in the screen showing cargo camera when vehicle blinker is activated.

5 TECHNICAL SUPPORT & DISCLAIMERS

Before calling for technical support, please have your invoice number available.

Technical Support

Technical support resources, installation guides, and installation videos are available on our website, **www. ARC12VOLT.com**

If you are calling for technical support, please contact the supplier you purchased this kit from. **Have your invoice or order number readily available so we can best assist you.**

Disclaimer:

All information provided in this instructional guide is given on an as-is basis. All wires should be verified and tested for functionality before any connections are made. All wiring connections should be made using OEM approved wire repair techniques which include, but are not limited to, soldering and heat-shrinking all connections. When screwing or drilling, verify clearance on opposite side of work surface. Professional installation is recommended

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