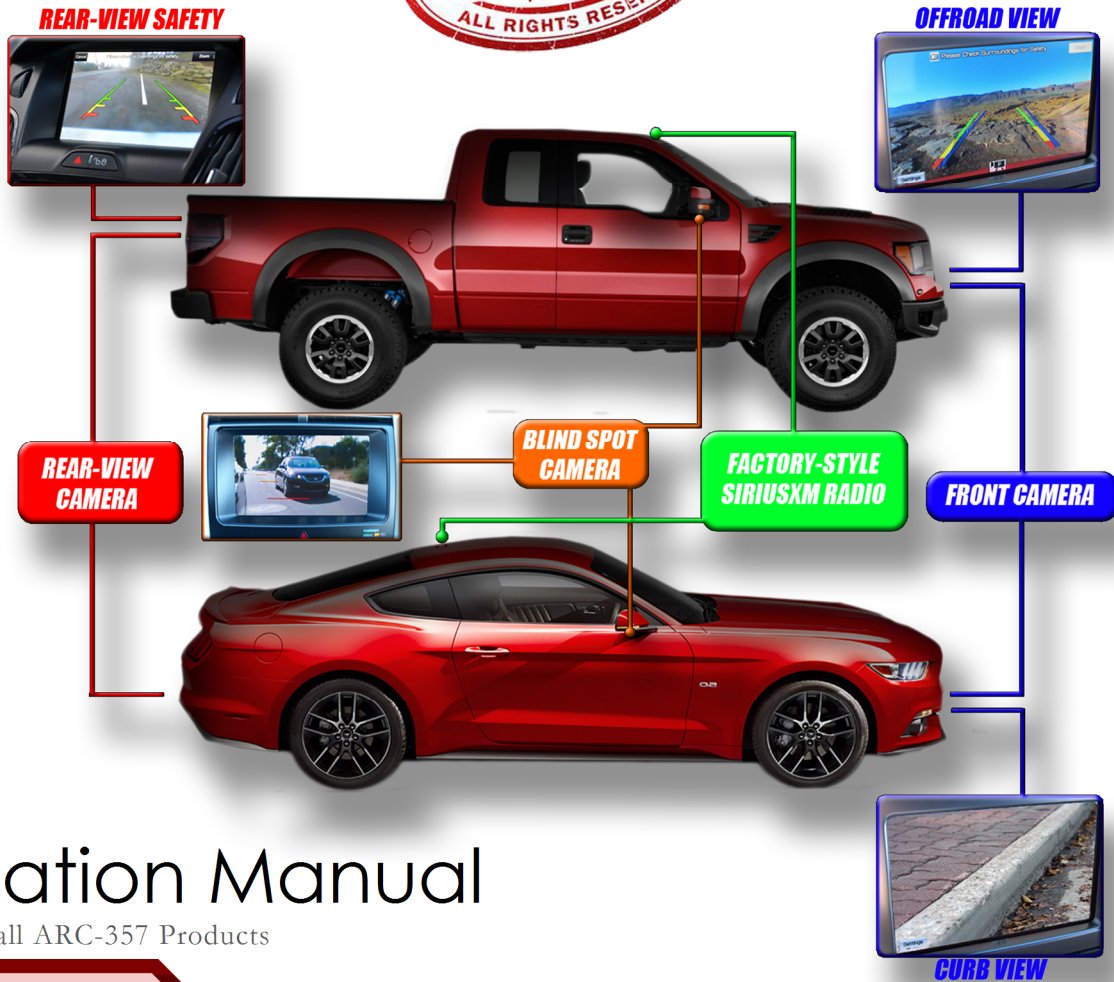


ARC 357

ONE MODULE, ENDLESS POSSIBILITIES



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

1 TABLE OF CONTENTS

I. Base Module Configuration **START HERE!**

II. Installation Instructions

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2.2 Universal Installation Instructions

III. Vehicle Specific Installation InstructionsError! Bookmark not defined.

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3.2 Chrysler "CMC" RA2/RA3/RA4

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4.1 Universal Installations

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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!!

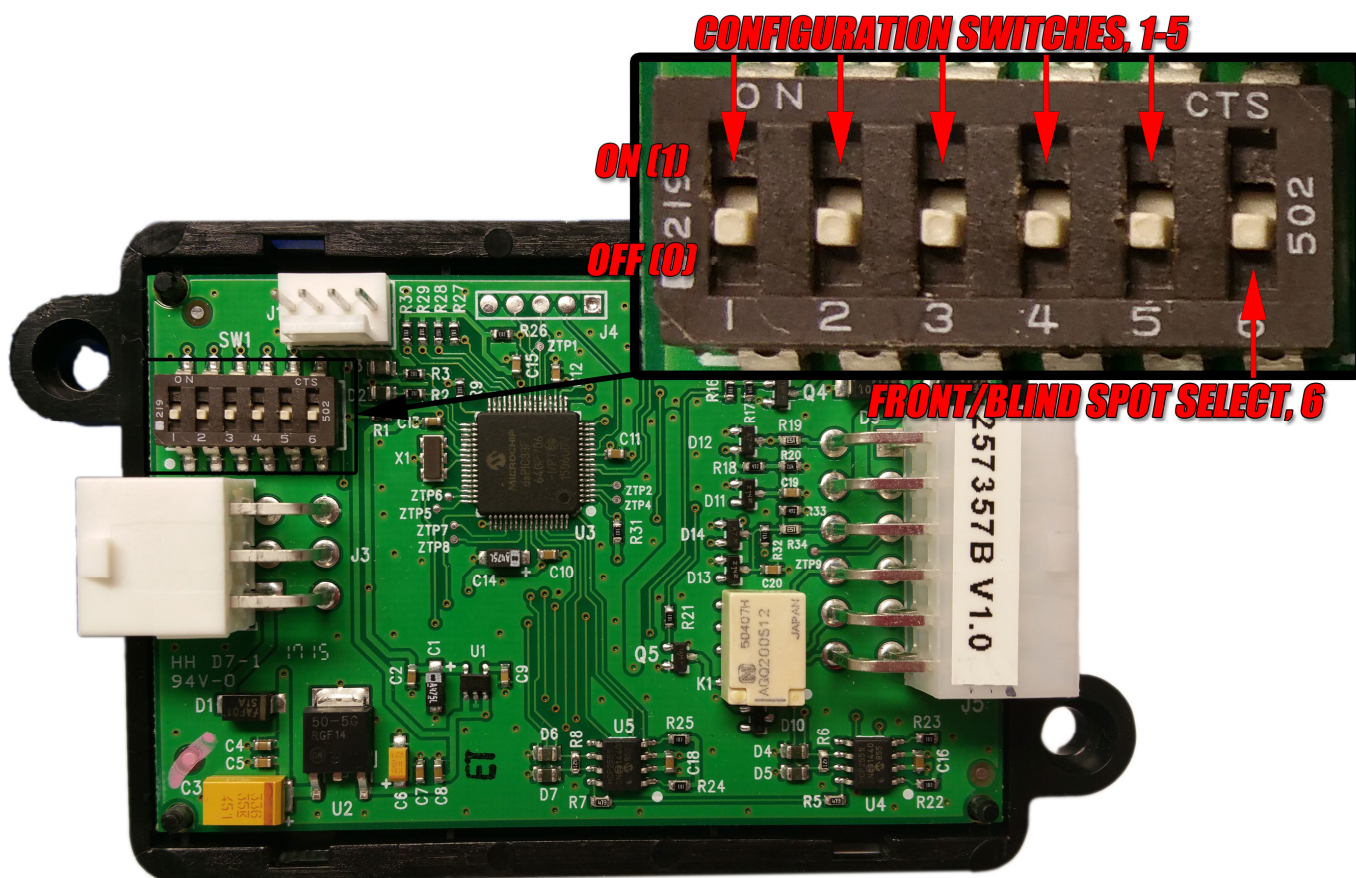
(1) Indicates a dip switch in the ON/UP position

(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

i 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**).



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:

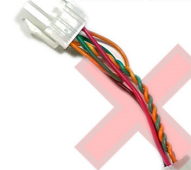
Power vehicle down and disconnect negative battery terminal. Remove dash assembly to gain access to radio/display interface. Disconnect factory display or radio and install the corresponding vehicle specific T-harness.

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.

NOT USED

FOR MAIN INSTALL

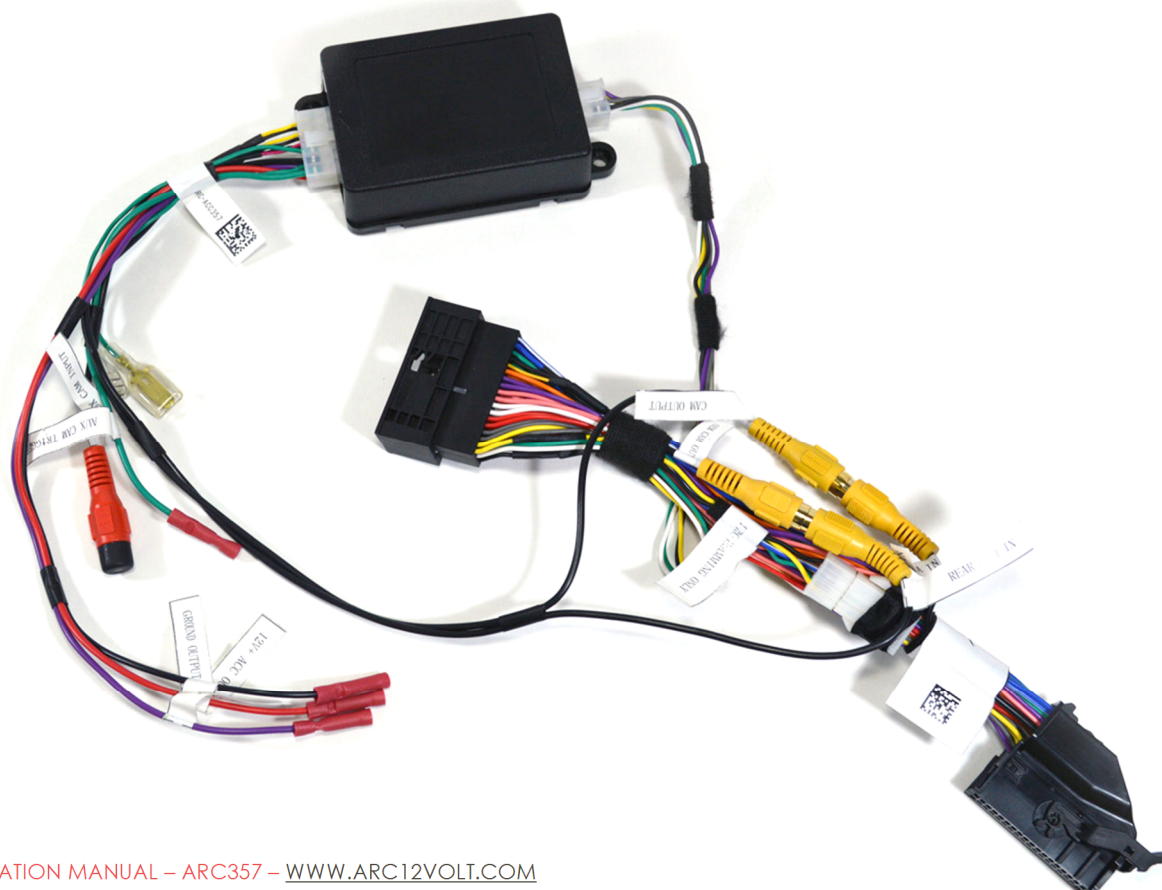


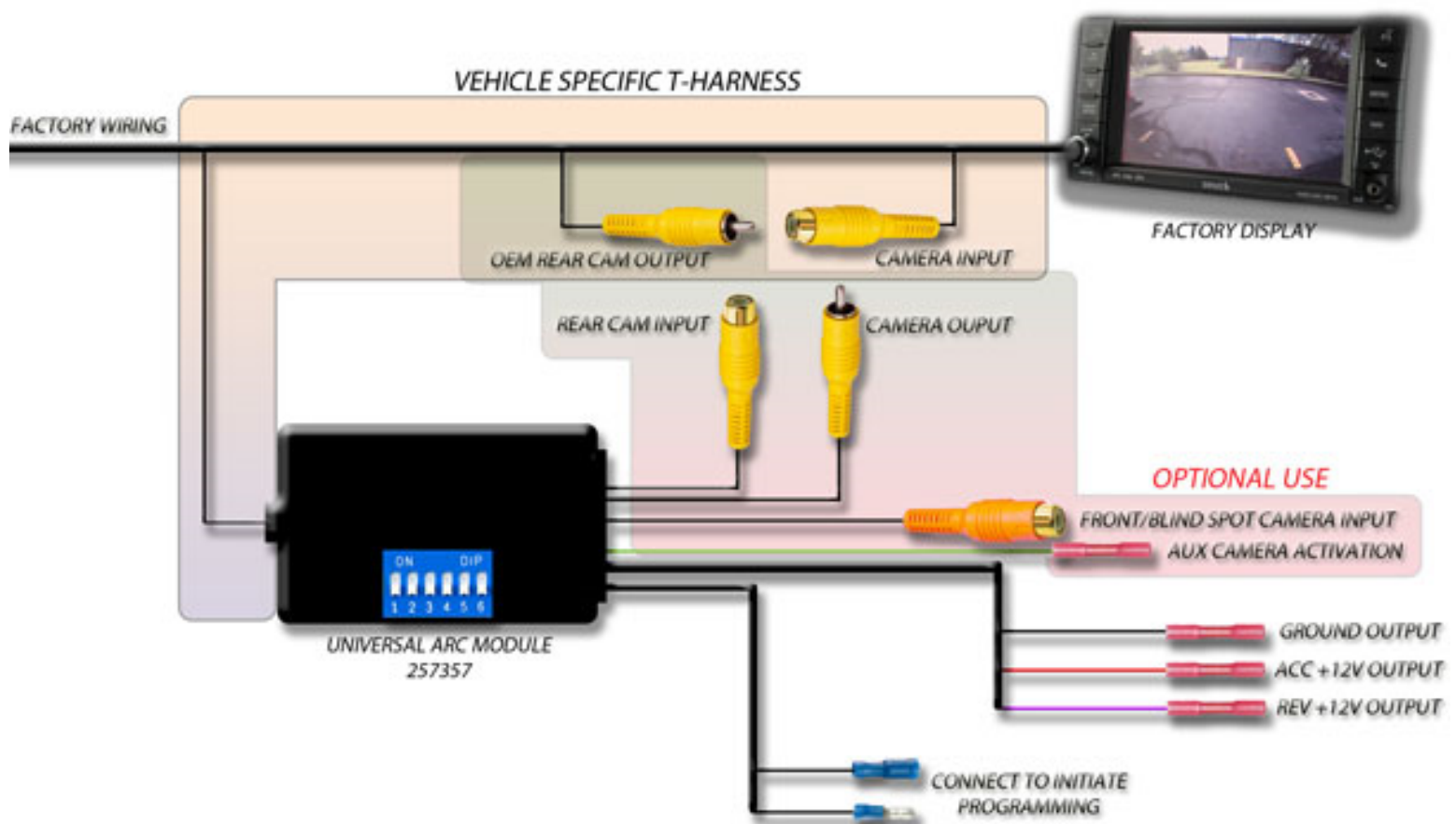
MODULE BYPASS

RETAIN THIS PIECE IN CASE MODULE
NEEDS TO BE DISCONNECTED

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.

If your part number is not listed below, camera compatibility can be verified by testing resistance between pins **6** and **12** on the back of the 4" display.
If resistance reads **~75 Ω**, display is camera compatible.

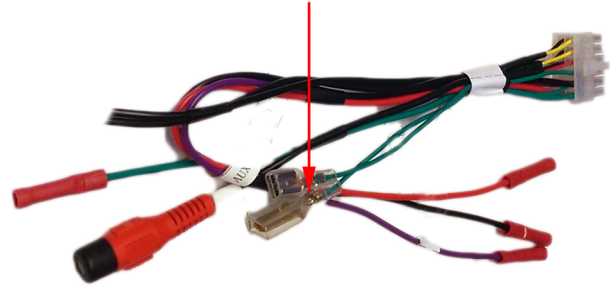
TESTED COMPATIBLE DISPLAYS			INCOMPATIBLE
BB5T-19C116-CK	DL3T-18B955-CC	EJ5T-18B955-CC	BB5T-19C116-CJ
BT4T-19C116-CP	DL3T-18B955-CD	EJ5T-18B955-GA	BT4T-19C116-CN
CB5T-19C116-CC	DL3T-18B955-CF	EJ5T-18B955-GB	CE8T-18B955-AA
CB5T-19C116-CD	DL3T-18B955-CG	EL3T-18B955-CE	CE8T-18B955-AD
CB5T-19C116-GC	DS7T-18B955-CE	EM5T-18B955-CF	CJ5T-18B955-GC
CB5T-19C116-GD	DS7T-18B955-CF	EM5T-18B955-JB	CJ5T-18B955-GE
CK4T-18B955-CF	DT4T-19C116-CA	ES7T-18B955-CA	CJ5T-18B955-GF
CM5T-18B955-CF	DT4T-19C116-CB	ES7T-18B955-CB	CM5T-18B955-AB
CM5T-18B955-GB	DT4T-19C116-CC	ET4T-18B955-CC	CM5T-18B955-AD
CM5T-18B955-GD	DT4T-19C116-CD	ET4T-19C116-CD	CM5T-18B955-CE
CM5T-18B955-GE	DT4T-19C116-GB	ET4T-19C116-GG	CM5T-18B955-GF
CM5T-18B99-GG	DT4T-19C116-GD	FB5T-19C116-CA	CM5T-18B99-AD
DA8T-18B955-CD	EA8T-18B955-CB	FB5T-19C116-GA	D2BT-18B955-BE
DA8T-18B955-CF	EB5T-18B955-GA	FG1T-18B955-CA	D2BT-18B955-BG
DB5T-19C116-CA	EB5T-18B955-GC	FR3T-18B955-CG	DA6T-18B955-BB
DB5T-19C116-CBT	EB5T-19C116-CA	GK4T-18B955-CA	DM5T-18B955-CD
DB5T-19C116-GA	EB5T-19C116-CD	GK4T-18B955-CB	EM5T-18B955-CA
DB5T-19C116-GB	EG1T-18B955-CA		EM5T-18B955-CC
DG1T-18B955-CD	EG1T-18B955-CD		EM5T-18B955-CB

All F150/F250/F350 4.2" MyFord displays are known to be camera compatible and may not be listed.

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.
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.

PROGRAMMING INITIATION JUMPER WIRES
CONNECT TO INITIATE PROGRAMMING



i 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 ADD-ON

Vehicle Applications:

"LOW SPEED" Radios - Profile # 16			"HIGH SPEED" Radios - Profile # 15		
2011	2014	200	2008	2017	Grand Caravan
2008	2010	300	2008	2017	Liberty
2008	2009	Aspen	2008	2011	Nitro
2008	2014	Avenger	2009	2012	Ram
2009	2012	Caliber	2008	2017	Town and Country
2009	2014	Challenger	2007	2017	Wrangler
2008	2010	Charger	2011	2013	Grand Cherokee
2008	2010	Commander	2011	2013	Durango
2009	2017	Compass	DIP Setting: 01111		
2008	2012	Dakota			
2008	2009	Durango			
2008	2010	Grand Cherokee			
2008	2008	Magnum			
2009	2017	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.

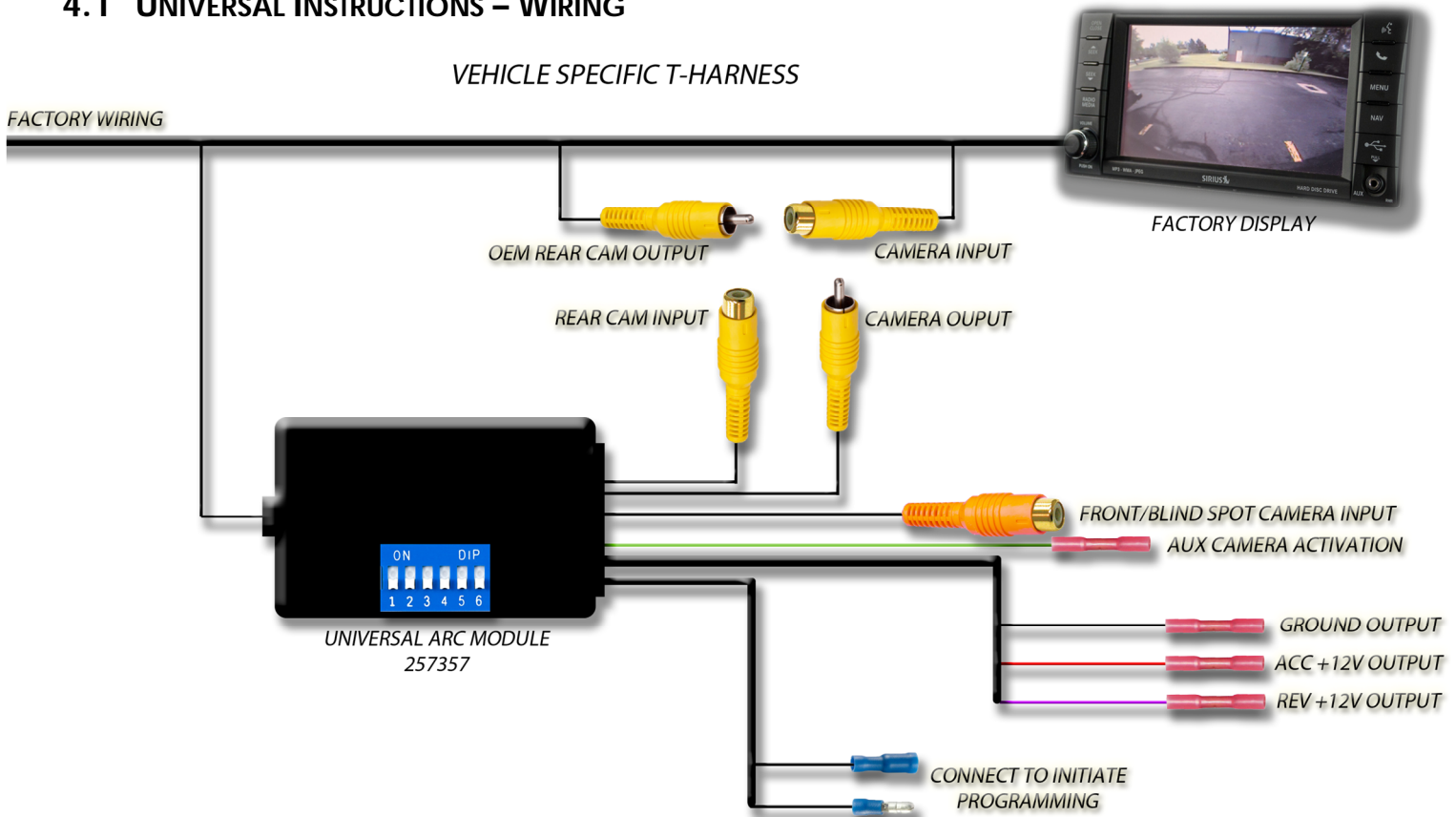
4 FRONT/BLIND SPOT/CARGO CAMERA UNIVERSAL INSTALLATION



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.



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.



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****

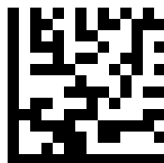
Manufactured Under
License from
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US Patents
7,917,261
8,103,407

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4.27.16