

NAV-TV

INTERFACING THE FUTURE

3950 NW 120th Ave, Coral Springs, FL 33065 TEL 561-955-9770 FAX 561-955-9760

Ford 4" UNI-CAM

Dual camera integration kit for Ford 4" screens

NTV-KIT600



BHM
09/30/15
NTV-DOC211

Overview

The Ford 4" UNI-CAM kit interfaces an aftermarket rear camera into Ford vehicles equipped with the OEM 4" media screen. No dealership programming is required and this kit is fully Plug & Play behind the factory media screen. **Note:** *before installing this module, VERIFY 75 ohms exists across pins 6 & 12 with a multimeter at the 4" screen connector.*

Kit Contents

Optional Reverse Cameras



F-Series/Flex CAM



CAM 6



Transit-CAM
included in
NTV-KIT623



4" UNI-CAM Module
NTV-ASY166



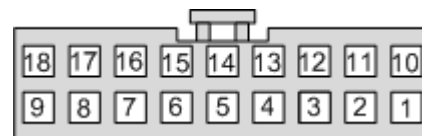
USB Cable
NTV-CAB009



Plug & Play T-Harness
NTV-HAR271

Ford 4" UNI-CAM pin out

PIN #	Description	Color
1	12v (+) constant input	Yellow
2	Input 1 (+): force rear camera	Red
3	Input 2 (+): force front camera	Blue
4	Input 3 (+): de-program wire	Pink
6	VIDEO OUT RCA	Yellow
7	RCA Shield	Black
8	CAN HI (Radio Side)	White/Green
9	CAN HI (Car Side)	White/Brown
10	Ground (-)	Black
11	Output 1: ACC (+)	White/Red
12	Output 2: Reverse (+)	White/Blue
13	Output 3: Front CAM power	White/Purple
15	Front RCA Video IN	White
16	Rear RCA Video IN	Red
17	CAN LO (Radio Side)	Green
18	CAN LO (Car Side)	Brown



Wire side

Any additional wires not mentioned here are not used for this install.

Module Installation

1. Remove the 4" media screen from the dashboard, above the CD player.
2. Connect the provided **Plug & Play T-Harness** to the OEM ford 12-pin plug previously connected to the radio.
3. After installing and running your reverse camera to the dash opening, connect your RVC signal to the **Yellow** RCA found on the **Plug & Play T-Harness**. **Power your camera with an ACC source if planning to use the force camera feature (OUTPUT 1, 1 amp MAX).**
4. **Optional:** if connecting a secondary (front) camera or AUX video source, connect the following:
 - a. Connect the **front camera signal** to the **BLACK** RCA from the 18-pin UNI-CAM harness.
 - b. Connect the **rear camera signal** to the **YELLOW** (female) RCA from the 18-pin UNI-CAM harness.
 - c. Connect the **YELLOW** (male) RCA to the **BLACK** RCA (may already be complete) from the screen side of the plug & play harness. *See diagram for visual aid (page 5).*
5. **Optional:** If adding a secondary (front) camera, connect **INPUT 2** (Blue) to 12v **through a toggle switch** for activation. Sending 12v (+) to INPUT 2 will force the connected front image at any time.
6. **Optional:** If the user desires to force the rear camera at any time, connect **INPUT 1** (Red) to 12v **through a toggle switch** for activation. Sending 12v (+) to INPUT 1 will force the connected rear image at any time.
7. Connect the UNI-CAM module to the 18-pin harness on the Plug & Play T-Harness.
8. Connect the male end of the Plug & Play T-Harness to the screen and proceed to the next section.



Ford 4" UNI-CAM Programming & Testing

Programming for the 4" UNI-CAM is automatic. After all connections are properly made and the module is connected, turn the car on to **IGNITION**, wait for the radio to fully boot and settle before testing functionality.

NOTES:

- The radio **may or may not** visually reboot with a 'Diagnosis' message. It may appear that the radio just boots slowly (only the first time, in which case it took programming before the display appeared).
- Place the car into reverse, the screen should automatically display the connected reverse image (or a blue screen if you have no camera connected).
- ***This module VIN-LOCKS to the vehicle it is connected to and cannot be used on any other vehicle until it is De-Programmed. See De-Programming procedure below.***

Ford 4" UNI-CAM De-Programming Procedure

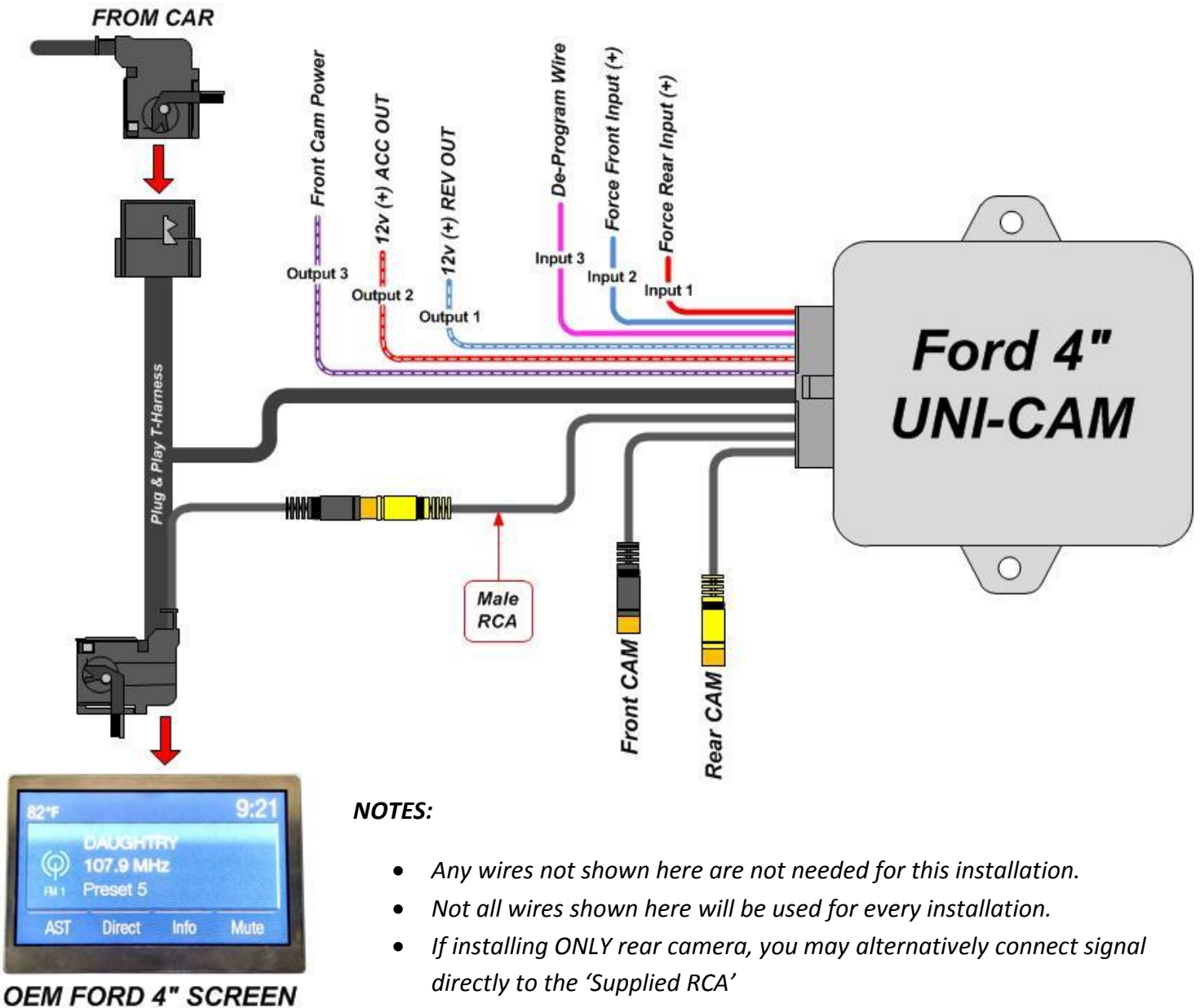
Use this procedure if you wish to **De-Program** the 4" UNI-CAM from the car. This must be completed if you're removing the camera from the car, ***otherwise the screen will show an error while in reverse.***

1. Leave the car's **IGNITION** in the **OFF** position.
2. With the module still connected to the vehicle, connect the **PINK WIRE** (input 3, pin 4) to **constant 12v (+)** temporarily.
3. Turn the **IGNITION** to **ON**.
4. The radio **may or may not** visually reboot with a 'Diagnosis' message. It may appear that the radio just boots slowly.
5. Place the car in reverse, confirm that the main radio image remains on the 4" display and does not show any error.
6. Disconnect the UNI-CAM system entirely and confirm once more that nothing happens while in reverse.

Ford 4" UNI-CAM Operation

- After all connections are made and programming is complete, placing the vehicle in reverse will automatically display the connected rear camera's image.
- If **forced rear camera** is desired, connect **input 1** (red) to 12v (+) **through a toggle** (not included) and the rear image will show whenever activated.
- If a front camera was added, **force this camera** by connecting **input 2** (blue) to 12v (+) **through a toggle** (not included).

Installation Diagram



The reverse image will have rounded edges and the OEM radio screen showing behind the reverse image is OEM Ford operation and is normal.

Some vehicles may retain the reverse image while in drive until ~5 mph, this is also normal Ford operation.

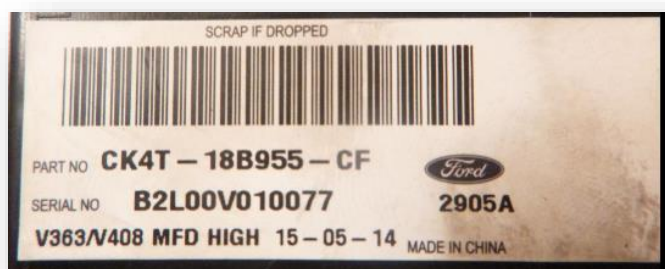


Ford 4" Screen Compatibility list

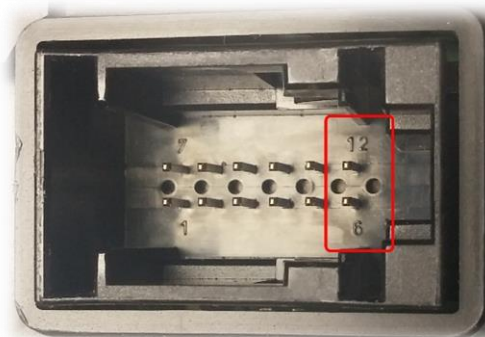
Due to the large variety of different 4" screen part numbers, it is strongly advised to verify the screen compatibility by removing the screen and measuring a 75 ohm termination across pins 6 and 12. NAV-TV cannot assure compatibility unless this step has been taken.

Incompatible Display PART #'s		
EM5T-18B955-CB	CM5T-18B99-AD	CJ5T-18B955-GF
EM5T-18B955-CA	CM5T-18B955-GF	CJ5T-18B955-GE
EJ5T-18B955-GB	CM5T-18B955-CE	CJ5T-18B955-GC
DM5T-18B955-CD	CM5T-18B955-AD	CE8T-18B955-AD
DA6T-18B955-BE	CM5T-18B955-AB	CE8T-18B955-AA
D2BT-18B955-BE		BB5T-19C116-CJ

Compatible Display PART #'s				
FG1T-18B955-CA	EJ5T-18B955-GA	DT4T-19C116-GB	DL3T-18B955-CC	CM5T-18B955-GD
FB5T-19C116-GA	EJ5T-18B955-CC	DT4T-19C116-CD	DG1T-18B955-CD	CM5T-18B955-GB
FB5T-19C116-CA	EG1T-18B955-CD	DT4T-19C116-CC	DB5T-19C116-GB	CM5T-18B955-CF
ET4T-19C116-GG	EG1T-18B955-CA	DT4T-19C116-CB	DB5T-19C116-GA	CK4T-18B955-CF
ET4T-18B955-CC	EB5T-19C116-CD	DT4T-19C116-CA	DB5T-19C116-CBT	CB5T-19C116-GD
ES7T-18B955-CB	EB5T-19C116-CA	DS7T-18B955-CF	DB5T-19C116-CA	CB5T-19C116-GC
ES7T-18B955-CA	EB5T-18B955-GC	DS7T-18B955-CE	DA8T-18B955-CF	CB5T-19C116-CD
EM5T-18B955-JB	EB5T-18B955-GA	DL3T-18B955-CG	DA8T-18B955-CD	CB5T-19C116-CC
EM5T-18B955-CE	EA8T-18B955-CB	DL3T-18B955-CF	CM5T-18B99-GG	BT4T-19C116-CP
EL3T-18B955-CE	DT4T-19C116-GD	DL3T-18B955-CD	CM5T-18B955-GE	BB5T-19C116-CK
				BT4T-19C116-CN



Find the PART number on the back of the main 4" media screen.



Verify 75ohms on pins 6 & 12 on the back of the main 4" media screen.

Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and passenger entertainment only.