

NAV-TV

INTERFACING THE FUTURE

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

www.nav-tv.com info@nav-tv.com

BHM
11/13/19
NTV-DOC351

SYNC3-RVC

NTV-KIT957



Quick Reference

- (LVDS) Video Cable connects at **Screen**
- Power/CAN Harness connects at **ACM (tuner)**
- Unit requires **Constant 12v (P&P)**
- Do not power camera with reverse light. Use ACC or purple wire (through relay)**

Overview

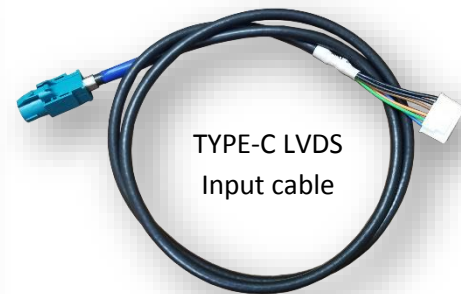
The SYNC3-RVC interfaces a backup camera input (and 1 additional video input) to the factory media screen in select Ford vehicles equipped with **SYNC 3 (8" only)** media systems (2016+). *With KIT800, HDMI input is available with this unit.*

Kit Content

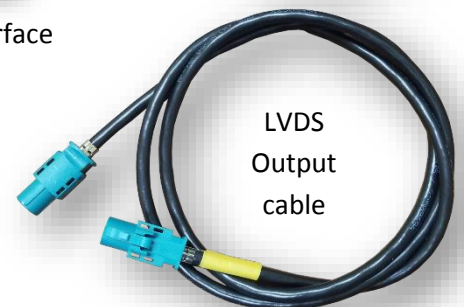
HD-LINK Optional KIT800



SYNC3-RVC Interface



TYPE-C LVDS
Input cable



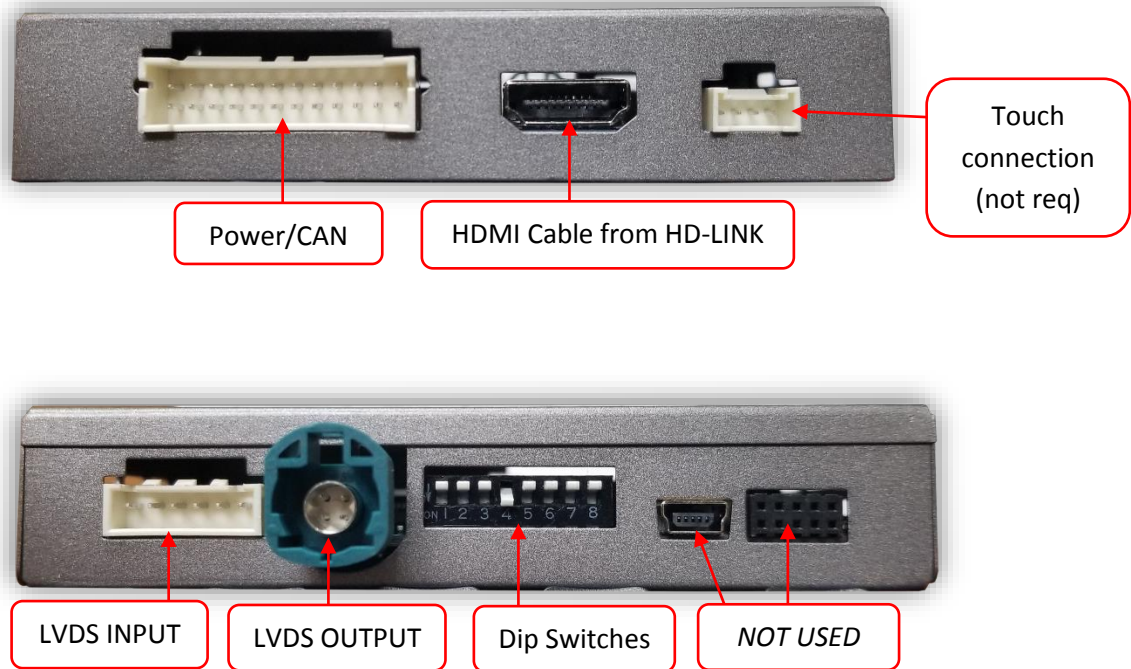
LVDS
Output
cable



Power/CAN
Harness

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Interface Connectors



Dip Switch Settings (Configure prior to installation)

Dip SW:	1	2	3	4	5	6	7	8
UP	HDMI OFF	CVBS OFF	Front cam timer OFF	OEM RVC	X	SEE BELOW		Adding SmartLink
DOWN	ADDING HDMI*	CVBS ON	Front cam timer ON	ADDING RVC				Adding HDLink (KIT800)

*HDMI input requires KIT800



Dip SW:	6	7
UP	X	X
DOWN		

FOCUS, F150, RAPTOR, RANGER
(up to 2018)

Dip SW:	6	7
UP	X	
DOWN		X

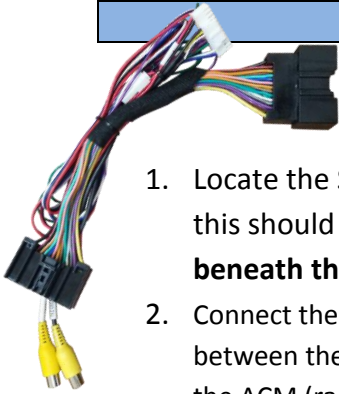
TRANSIT VAN

Dip SW:	6	7
UP		X
DOWN	X	

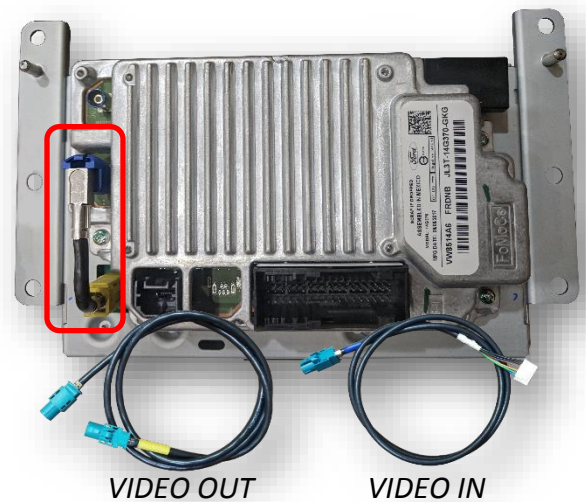
2019+ F150, RAPTOR

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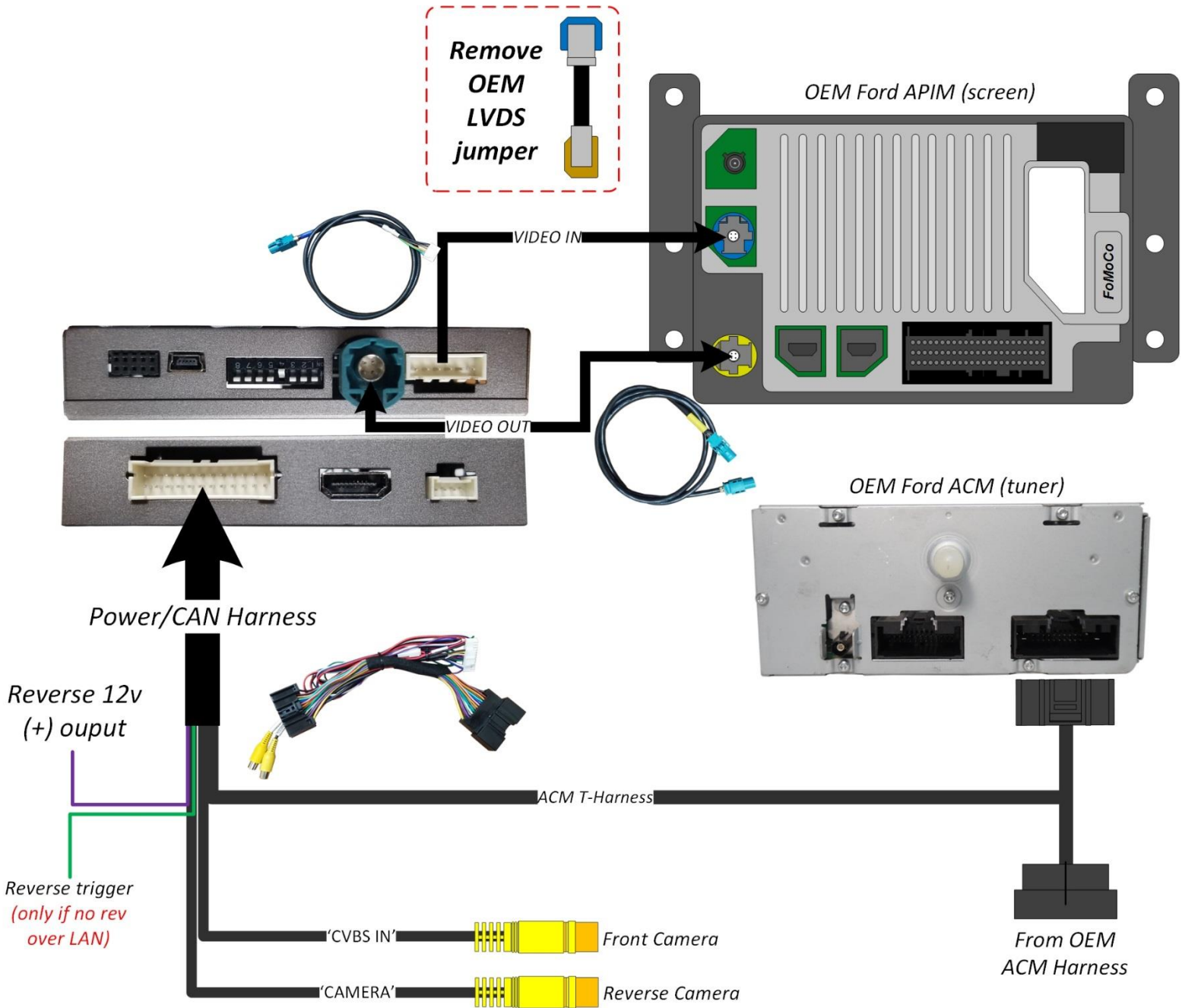
Interface Installation



1. Locate the SYNC 3 radio tuner. For pickup trucks, this should be located **behind the climate panel, beneath the screen.**
2. Connect the provided plug & play ACM harness in between the factory harness and the 24-PIN plug at the ACM (radio tuner) outlined here (right):
3. No other wired connections are required for a basic install. If adding a reverse camera, the *purple wire* outputs 12v in reverse only for power to camera.
4. Behind the APIM (screen), disconnect the 3" OEM LVDS cable which connects the (2) halves (LCD to APIM). This short cable will no longer be used (*keep in case of returning to factory in the future*).
5. Connect the provided VIDEO-IN cable from the 'VIDEO IN' port on the module to the upper **blue port** on the APIM.
6. Connect the provided VIDEO-OUT cable from the 'VIDEO OUT' port on the module to the lower **beige port** on the OEM LCD.
7. Connect the blue end of the provided cable to port LVDS port on the SYNC3-RVC interface.
8. Connect the reverse camera (if added) and front camera (if applicable) to the proper RCAs (RVC: 'CAMERA' and FVC: 'CVBS IN')
9. Proceed to 'SYNC3-RVC Operation



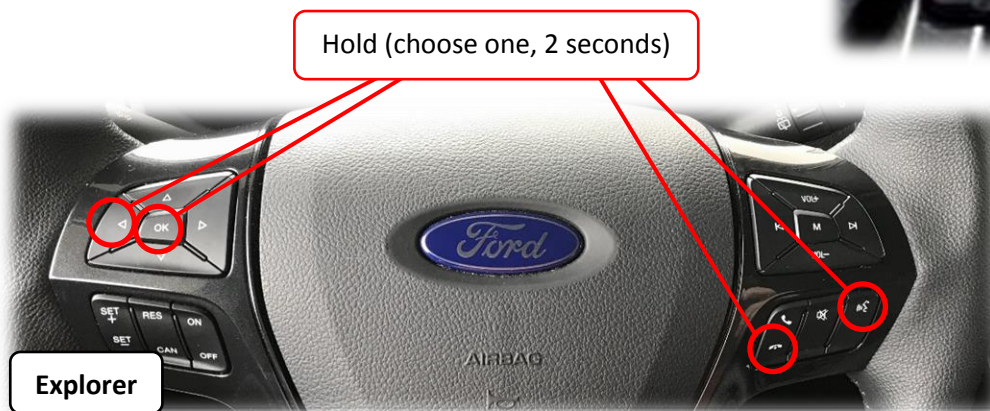
Connection Diagram



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SYNC3-RVC Operation

- After all connections are made and **dip switches set properly**, start the vehicle. Placing the vehicle in reverse will show the connected rear camera, with dynamic guidelines overlaid onto the media screen.
- If adding a front camera, this must be activated *by setting DIP SWITCH #2 to ON*. Forcing this camera on at any time is performed by holding the **Voice Recognition (2 sec)** button or pressing the phone **Hang-Up** button on the steering wheel (shown below).
- *The module will cycle through video modes in this order: OEM>HDMI>AV1>OEM, and will only show inputs that are active. Use the same button action to return to OEM screen.*



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Adding HD-LINK Adapter (HDMI Input, optional)

Follow the instructions below when adding the HDMI adapter (HD-LINK: KIT800) to enable HDMI input to the OEM screen:

1. Disconnect the main power plug from the SYNC3-RVC interface.
2. Put dip switch #1 in the **DOWN** position.
3. Reconnect the main power plug.
4. Connect the **black wire** to ground (-) and the **red wire** to ACC power (+) from the main power connector on the *HD-LINK* adapter. The RCA's on this plug provide audio from the HDMI source.
5. Activate the HDMI input by **holding** the *Voice Recognition button (2 seconds)* or pressing the *Hang-Up* button once on the steering wheel.

