

Metris F-CAM/ Metris-PRG/Metris-PKG

Dual-camera interface for Mercedes Metris Van NTV-KIT714/KIT715/KIT719

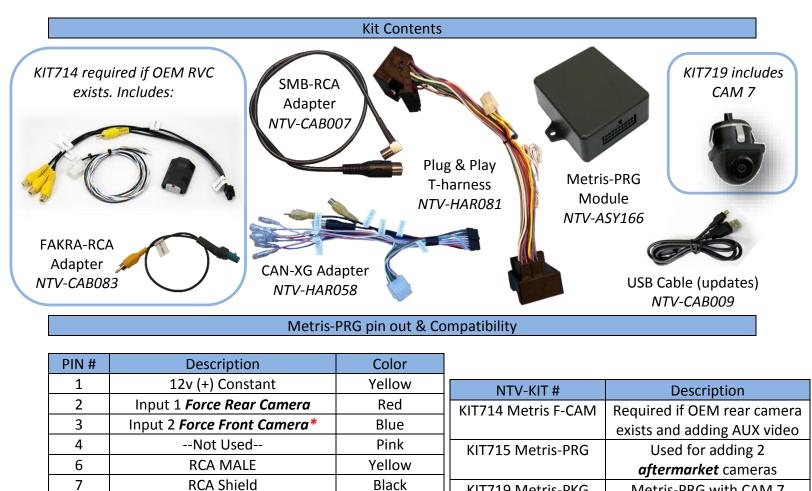


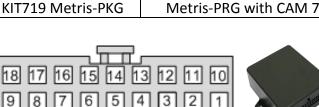


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Overview

The Metris-PRG interfaces an aftermarket rear camera (and optional front camera/AUX video source) into the 2016 Mercedes Metris full size van. All connections are made behind the factory screen. Forcing either camera is available via steering wheel buttons or wire-triggers if desired.







Wire Side from Metris module

*Forced rear camera only supported when adding an aftermarket rear camera.

All existing wires not mentioned here are NOT used for this installation.

White/Green

Brown/Black

Black

White/Red

White/Blue White/Purple

White

Red

Brown

Brown/Black

8

9

10

11

12

13

15

16

17

18

CAN HI (Radio Side)

CAN HI (Car Side)

Ground (-)

Output 1 12v (+) ACC OUT

Output 2 Reverse 12v OUT

Output 3 12v when forced front

RCA Female (Normally Open)

RCA Female (Normally Closed)

CAN LO (Radio Side)

CAN LO (Car Side)

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Metris-PRG Installation

- 1. Remove the factory screen (this is the radio as well). This requires prying the dash panel (surrounding the radio and vents) and removing Torx screws which secure the screen to the sub-dash. Disconnect all harnesses and set the radio to the side.
- 2. Remove the (2x) 12-pin plugs from the factory euro-plug and re-insert them into the *male side* of the provided *Plug & Play T-Harness*. You'll need to remove the plastic cover from the OEM plug to gain access to these plugs (see below):

OEM Euro-Radio plug



Pry with small flathead

Remove cover



Remove (2x) 12-pin plugs

- 3. Insert these plugs (just removed from step 2) into the *male end* of the *Plug & Play T-Harness*.
- 4. Replace the cover (removed from step 2) back on to the OEM Euro-plug.
- 5. Connect the OEM Euro-plug to the *female end* of the provided *Plug & Play T-Harness*.
- Connect the provided *CAN-XG Adapter* to the 8-pin (white) Molex connector located on the Plug & Play T-Harness (white/blue & white/red wires not used, cut off).
- 7. Connect the Metris-PRG module to the 18-pin connector.
- 8. Connect the provided *SMB-RCA Adapter* to the *green port* on the back side of the radio.
- 9. Connect the 'Video to Radio' RCA (only male RCA) to the RCA end of the *SMB-RCA Adapter* from step 10.
- 10. After installing the rear camera, connect the signal RCA to the black RCA labeled 'Backup CAM' at the 18-pin Metris-PRG module. Power your camera with an ACC source (OUTPUT 1 provides 12v ACC, use this to trigger a relay, especially if powering 2 cameras).
- 11. **Optional:** if adding a front camera or AUX Video source, connect the signal to the RCA labeled 'Video IN' (at 18-pin connector). Power this video source with ACC power. **Note: when forcing AUX Video/front camera, the OEM message 'Check entire surroundings!' will always display on** screen. This is a factory limitation.
- 12. Connect the radio to the male side of the *Plug & Play T-harness*. Reconnect all other plugs to the radio and proceed to *Metris-PRG Programming*.

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Metris-PRG Programming

- 1. After all connections are made, turn the key to the **ON** position (don't start vehicle).
- 2. The radio will turn on, and then shut down (and stay off) within 1 minute.
- 3. Once the radio is off, press the *power button* once to turn it on.
- 4. If programming of the radio was performed successfully, the camera image will display on screen while in reverse.

Flash-code reference table: reference while programming

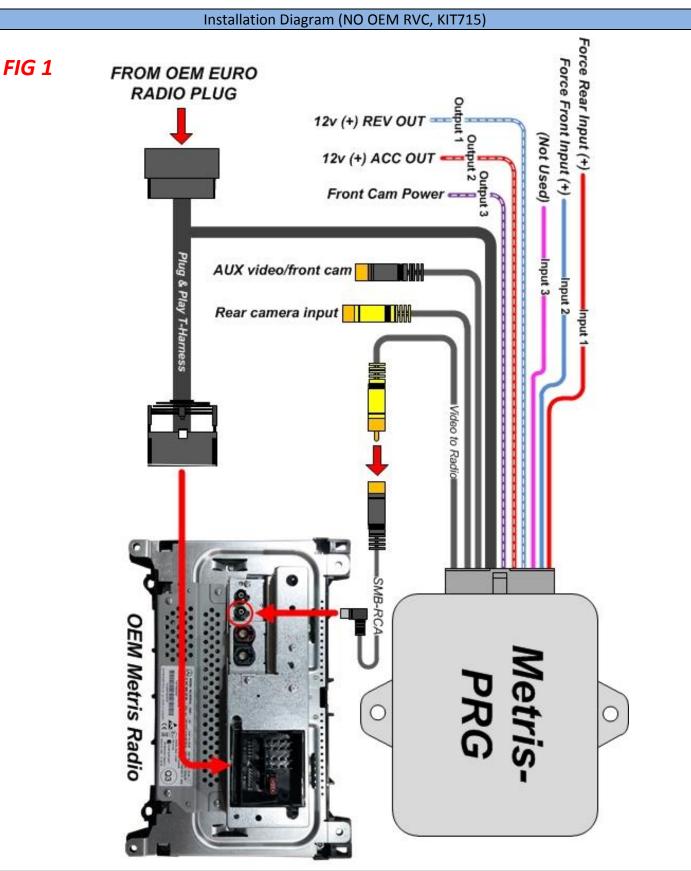
LED Response	Description
1 flash	Waiting for Ignition (Turn ignition to ON)
2 flashes	Waiting for Vehicle VIN
3 flashes	Query Vehicle (Reading/decoding the VIN and vehicle components)
4 flashes	Programming
5 flashes	Programming Complete
6 flashes	No Programming Needed (Already programmed)
7 flashes	Radio Not Supported (Verify this vehicle is compatible)
8 flashes	Out of Licenses (Contact NAV-TV @ 561-955-9770)

IMPORTANT NOTES:

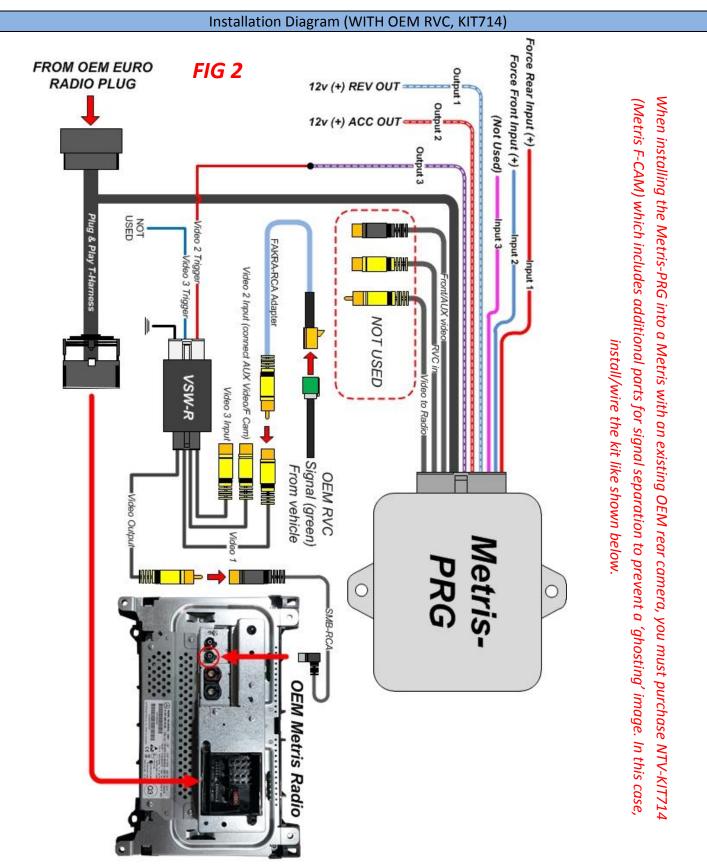
- This module locks to the vehicle's VIN and can only be used to program a reverse camera on ONE vehicle
- This module must remain in line (via T-Harness) to this vehicle at all times (programmer & emulator)
- There is no way to de-program this module. Once programmed, this kit must remain in the vehicle forever! (The module will not work on another vehicle after it has been programmed once!)
- If this Metris Van has an existing OEM Camera and you're adding AUX video (or front camera), you MUST purchase NTV-KIT714 (Metris F-CAM) which includes additional parts required for RVC signal separation to prevent 'Ghosting' image.

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Metris-PRG Operation

• Typically, no user interaction is necessary for the Metris-PRG. Any time the vehicle is placed into reverse, the rear-camera image will appear on screen.

Forced rear camera (viewing camera image in any gear and any speed) can be activated by **holding clear** (steering wheel) for 3 seconds or sending 12v (+) to Input 1 (red) through a toggle (not included). Note: Camera must be powered with an ACC source, NOT reverse lights for this operation.

Forced front camera/AUX video (viewing front camera/AUX video image in any gear and any speed) can be activated by **holding Voice Command for 3 seconds** or sending 12v (+) to **Input 2 (blue)** through a toggle (not included).



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