



# MULTIMEDIA & REAR-VIEW CAMERA INTEGRATION FOR SELECT LAND ROVER VEHICLES 2012-UP

# MRVLR-68

## LAND ROVER

- 2012 - 2015 LR2
- 2012 - 2015 LR4
- 2015 - 2015 New Discovery Sport
- 2012 - 2015 Range Rover Evoque
- 2012 - 2015 Range Rover Sport

## APPLICATION NOTES:

THIS INTERFACE REQUIRES THE VEHICLES TO HAVE A FACTORY AUX INPUT.

## WORKS FOR:

TOUCHSCREEN RADIOS VERSION 3

This interface does not offer the Force RVC feature.

Contact Tech Support for more information.

## PARTS INCLUDED

- (1) LR-68 Interface Module
- (1) LR-68 16-Pin T-Harness
- (2) AV Input 6-Pin Adaptors
- (1) Video RCA Cable
- (1) Instruction Sheet

## SAFETY PRECAUTIONS

1. Please read through the entire instruction manual before starting any of the installation procedures.
2. We recommend disconnecting the negative side of the battery until ready to code the vehicle.
3. Do not install any of the main modules near any major components or near the HVAC system, as placing items near the HVAC may cause damage or overheating to the vehicle or interface.
4. We recommend not disconnecting any of the air bag connections behind the dash panels.
5. This product is under Crux's 1 year manufacturer's warranty. Warranty may be voided in the case where the device shows proof of being opened or improper extreme force.

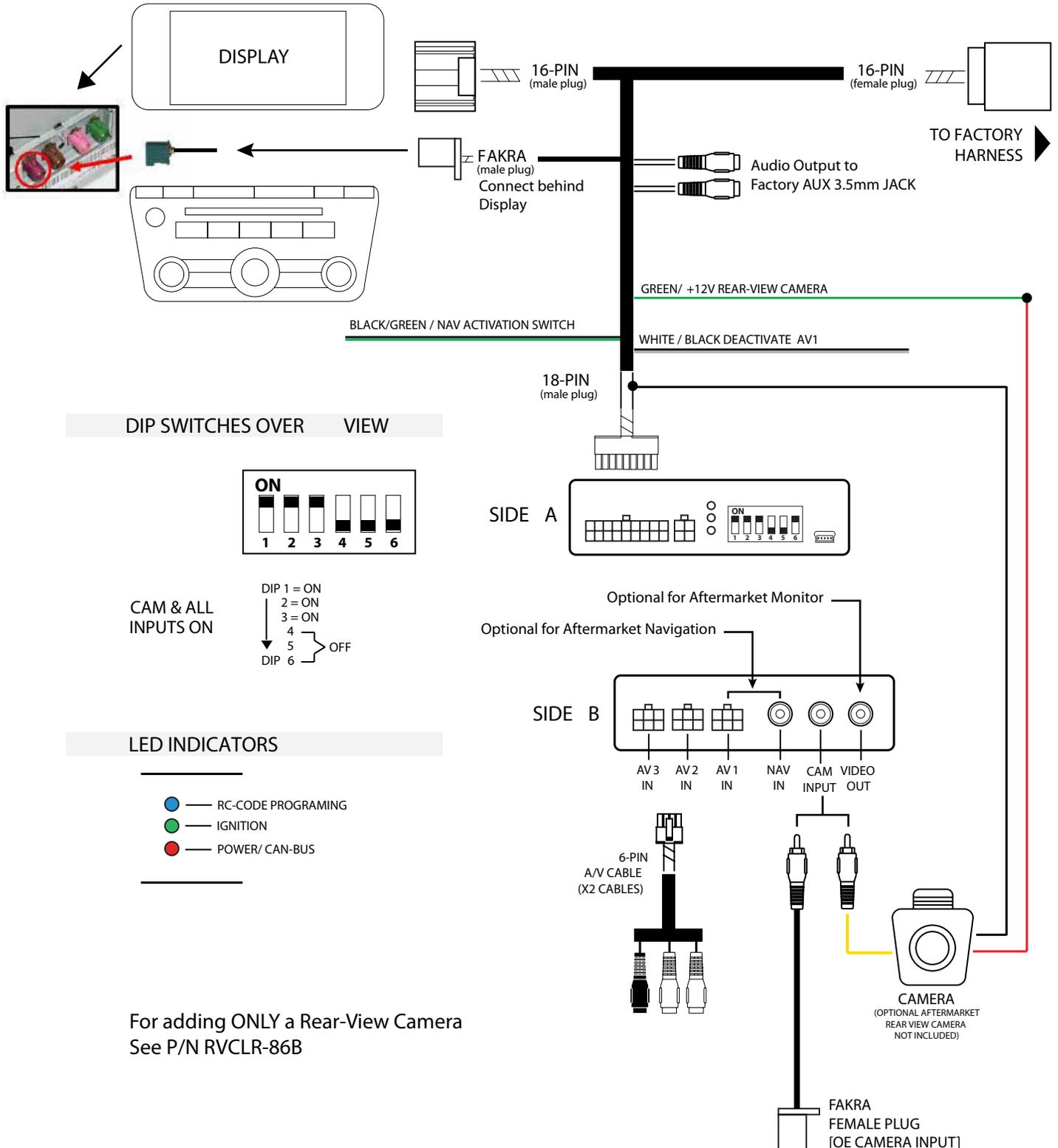
## TECH SERVICES

All our products are manufactured under strict quality control. Each device is being tested before shipment. If nevertheless do occur problems or if you have technical questions, contact us directly:

Crux Interfacing Solutions Tech Support

1 (855) 822-1348 (Mon - Fri - 9:00 AM - 5:00 PM) Pacific Time

### INSTALLATION OVERVIEW



### CONNECTING THE INTERFACE

Follow these steps to properly install the interface module.

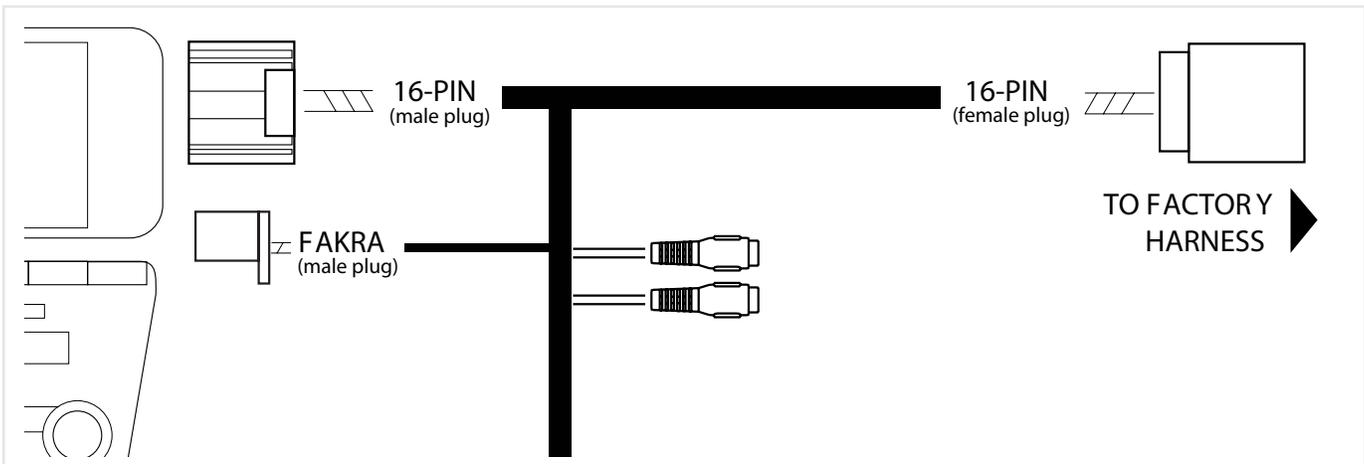
Step 1 - Remove the factory display to gain access to the factory 16-Pin and Fakra connector.

Located behind the display, not the radio. Remove the factory 16-Pin connector.



Step 2 - Using the provided 16-Pin T-Harness, mate both sides of the T-Harness. To the factory harness side, and to the factory display side.

Also connect the Green Fakra connector to the back of the display which is used for the rear-view camera.



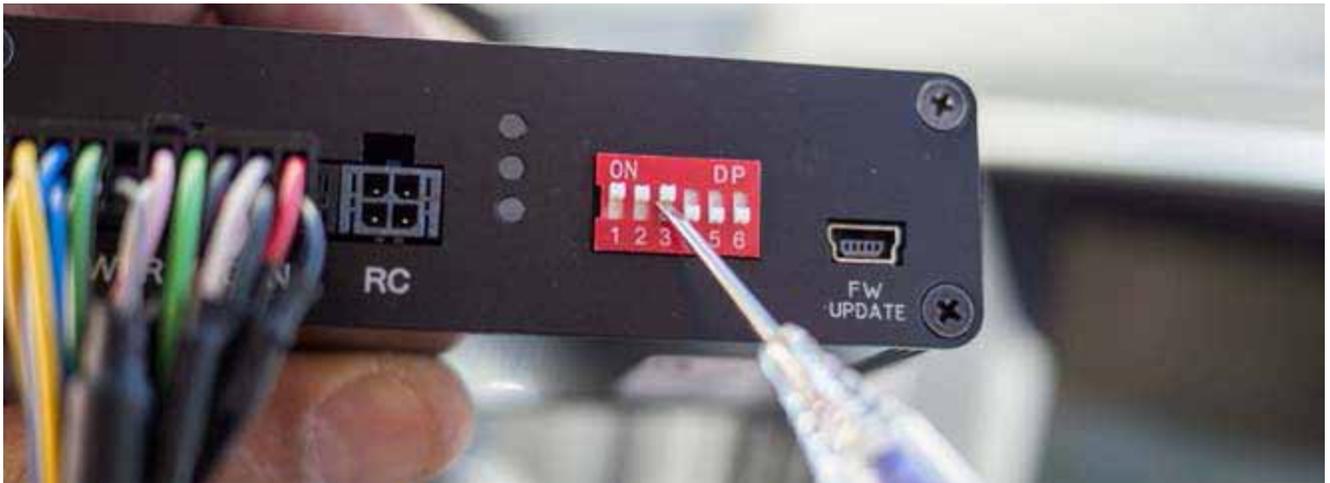
### CONNECTING THE INTERFACE

Follow these steps to properly install the interface module.

**Step 3** - Connect the 18-Pin connector on the provided T-Harness to the main interface module.  
Make sure all your connections are firmly inserted into the module.



**Step 4** - After connecting the module, set the proper dip switches to the "ON" position. Make sure to set the AV sources being used to the "ON" position. **NOTE:** The Video In-Motion feature does not require activation. This feature is permanently ON and will not disturb the navigation GPS performance.



#### DIP SWITCH DESCRIPTION

Down = OFF, Up = ON

DIP 1 = Rear View Camera Activation

DIP 2 = AV2 Activation

DIP 3 = AV3 Activation

DIP 4 = Not Used

DIP 5 = Not Used

DIP 6 = Not Used

#### LED INDICATORS

##### RED LED:

Blinking = No BUS Detected.

Solid = BUS Recognized.

OFF = Power Down/ Sleep mode.

##### GREEN LED:

ON = Power On

OFF = Power OFF

After each change of the DIP switch settings, we recommend powering down the module, then restarting the vehicle.

### CONNECTING THE CAMERA & AV INPUTS

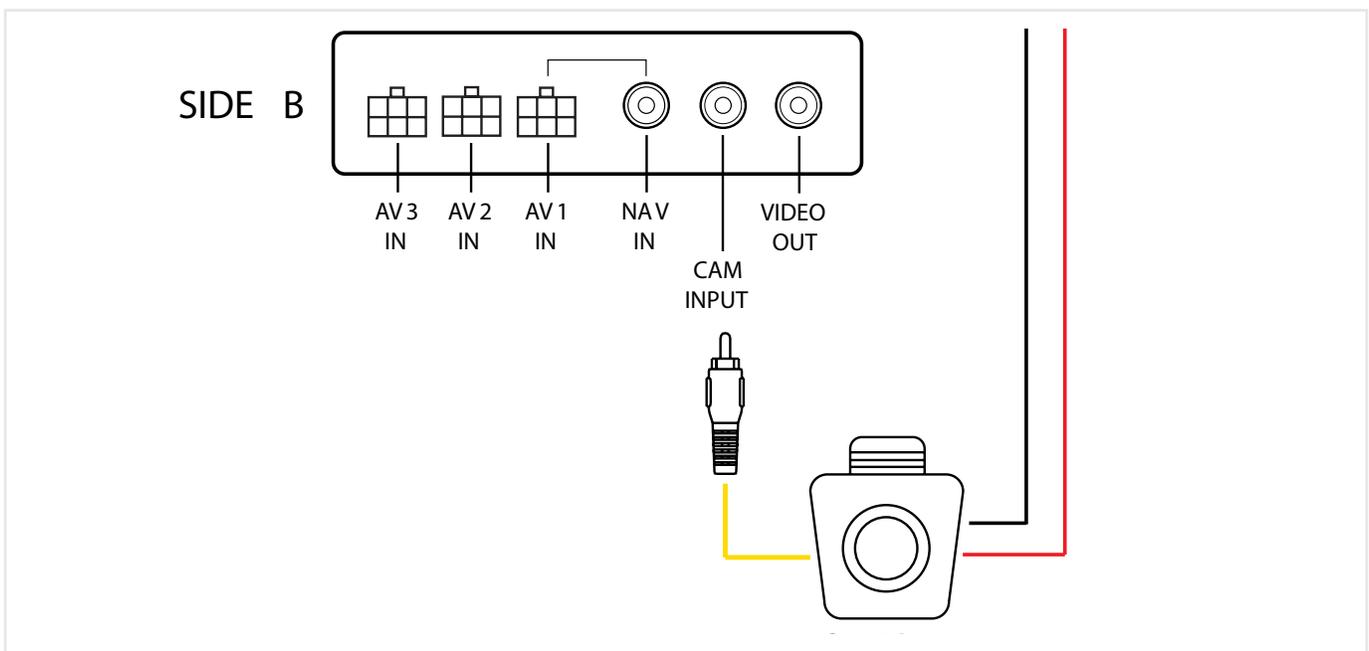
Using Side B of the interface (Camera & AV Inputs), connect the interface as described below.

Step 5 - With the T-Harness and interface modules properly connected, using the 6-Pin AV Adapters provided, connect the inputs that you will be using on the interface. The AV1 port is not to be used, this port is internally in use by the GPS source.



The Video Out port is to be used in vehicles that are equipped with Rear-Seat Entertainment Monitor or other external monitors. Included is a Video RCA Cable to be used with this feature. To retain the audio from the Rear-Seat Entertainment, use the attached Audio RCA's on the T-Harness.

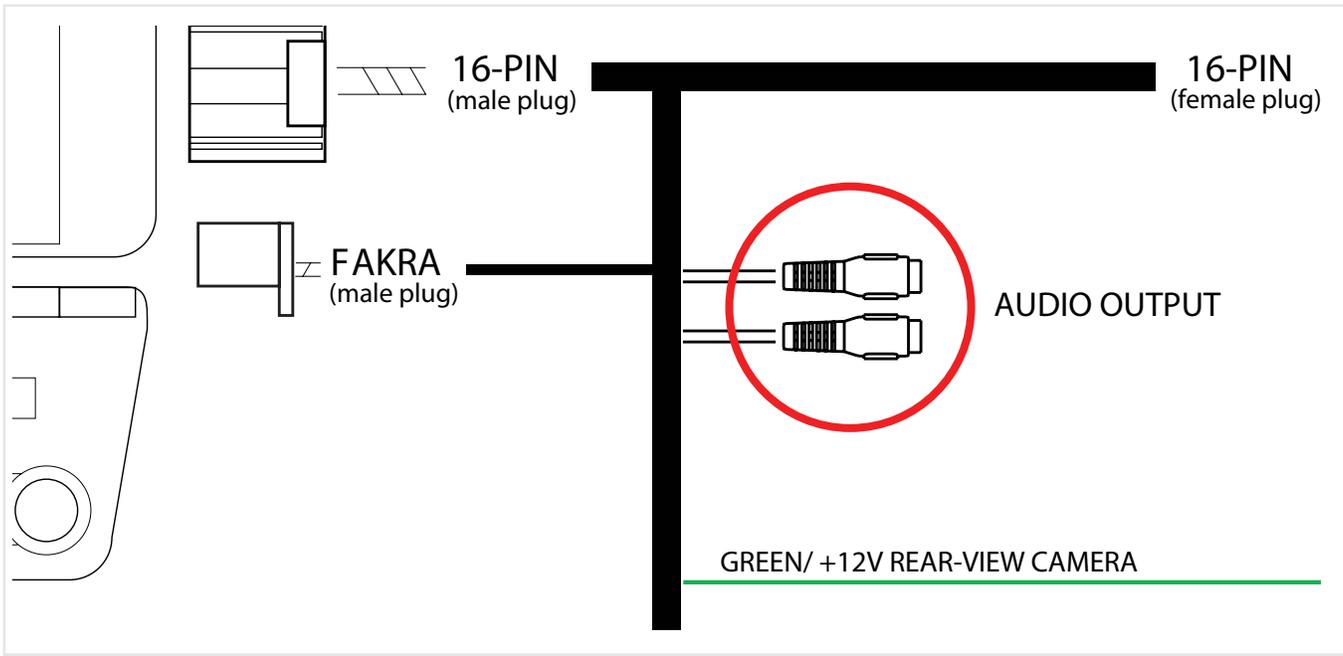
Step 6 - Connect the Rear-View Camera to the Cam Input on the B Side of the interface. You can use the GREEN wire on the 18-Pin T-Harness for REVERSE trigger of the camera. We also recommend using soldering on to the BLACK/ GROUND wire on the 18-Pin connector.  
NOTE: This interface is only compatible with NTSC camera types. CAMERA NOT INCLUDED!



### CONNECTING TO THE FACTORY AUX INPUT

In order for the interface to use the factory AUX input for audio integration from the module, you will need to make that connection.

Step 1 - Using a L&R Audio RCA adapter (Not Included), connect the adapter to the T-Harness outputs.



NOTE: The Video In-Motion feature does not require activation. This feature is permanently ON and will not disturb the navigation GPS performance.

### SELECTING THE AV SOURCES

The user must first select the AUX source, from the main Audio.Video menu.

Step 1 -Get familiar with the AUDIO/VIDEO button as it will help you toggle through the sources.

1. Press the AUDIO/VIDEO button once.
2. Select MY MUSIC
3. Select Option +
4. Select AUX



Step 2 -After activating the AUX audio source, Press and Hold the AUDIO/VIDEO button for 3 seconds to enter the interface module's input menu.

1. Press the AUDIO/VIDEO button to toggle through the sources:  
(Which ever source is not active, the menu will skip that input)

Order: AV1 - AV2 - AV3  
(the order repeats)

### USING THE TOUCH-SCREEN TO CONTROL THE AV SOURCES

Through the factory touch-screen display the user is able to access features of the AV sources.

The factory screen is divided into 9 areas that can be used to control the AV sources.

See below for shortcuts to those features.

Option 1 - You are able to control the functions by short pressing and/or holding the button.



### SPECIFICATIONS

Operation voltage 10.5 – 14.8V DC

Stand-by power drain 11mA

Operation power drain 36mA

Power consumption 0.5W

Temperature range -30°C to +80°C

Weight 190g

Measurements (box only) B x H x T 105 x 30 x 84 mm

COMPATIBLE RADIOS

