NAV-TV
INTERFACING THE FUTURE

100 NW 11th Street, Boca Raton, FL 33432 TEL 561-955-9770 FAX 561-955-9760

www.nav-tv.com   info@nav-tv.com
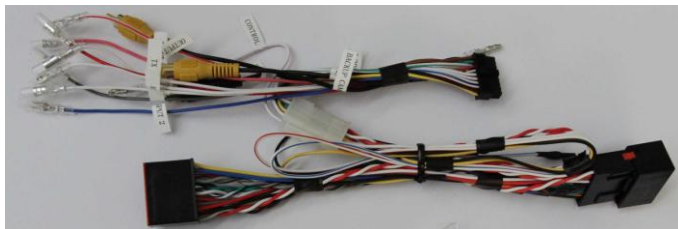
VTC-RR-X-CAM

Rear camera and video in motion for 2010 and up Land Rover vehicles, excluding the LR2.

Product Description			
1	VTC-RR-X-CAM interface module	4	Female RCA with insertion pins
2	Plug-and-play harness		
3	USB update cable		

NAV-TV
INTERFACING THE FUTURE

TOOLS REQUIRED
T-20 Torx
Plastic pry tool
8MM nut driver or ratchet
Velcro or double sided tape

Full-Sized Range Rover: The installation of the VTC-RR-X-CAM module is performed at the tuner. The tuner is located on the passenger side of the vehicle behind and below the glove box. **NOTE: The rear of the LCD monitor must be accessed during the installation BUT the LCD monitor will not need to be removed.**

1) Remove the passenger side running board and kick panel.
2) Remove the T-20 Torx screws from the black plastic shield below the glove box (if you were a passenger sitting in the passenger seat your toes would be directly below this panel).
3) Remove the panel and set aside
4) Locate the tuner box near the firewall secured to a bracket with two 8mm bolts. The tuner will be silver in color and measure @ 7" x 11" x 1".
5) Remove the two 8 MM bolts holding the tuner in place to facilitate access to the power plug.
6) Unplug the factory power harness from the tuner and place the factory male end into the supplied T-harness female end. Plug the aftermarket T-harness male end into the tuner. Insert the supplied 8 pin female molex to 18 pin male mini molex adapter into the 8 pin male molex plug on the T-harness. Plug the 18 pin male mini mole into the VTC-RR-X-Cam module.
   NOTE: No wires on the 8 to 18 pin harness will be used including the RCA ends. No connections will be made to any of these wires or RCA ends.
7) Secure the VTC-RR-X-CAM module in the cavity using either Velcro or double-sided tape.
8) Using a soft pry tool, remove the vent above the LCD screen on the top of the dash.
9) Looking through the removed vent opening, locate the grey 6 pin connector (diagram on page three) and remove it from the back of the LCD monitor.
10) Insert the supplied female RCA with molex pins into the center section of the grey molex plug. With the grey plug removed and viewed from behind with the locking tab facing upwards, the center top pin is RCA + and the center bottom pin is RCA- (refer to the diagram on page 3). In some vehicle the center pin locations will be populated with factory wires. In this case simply cut the wires and solder the supplied RCA onto the wires.
11) Install your rear view camera and run an RCA cable (not supplied) directly to the RCA plug you installed in step 10.
12) Reassemble in the reverse order.

Sport and LR4: The installation of the VTC-RR-X-CAM is performed behind the radio. The radio will NOT have to be removed during the installation. However, the LCD monitor will have to be removed.
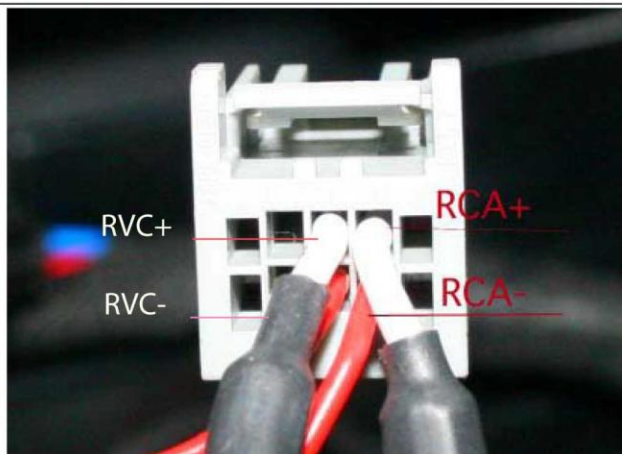
1) Remove the trim containing the PTS button that runs over the top of the radio by prying with a soft pry tool
2) Remove the T-20 Torx screws from the bottom of the left and right vents (to the left and right of the LCD screen) and remove the vents.
3) Remove the torx screws that secure the LCD monitor in place, unplug all the cables from the back of the screen and set the monitor aside.

4) Remove the power harness from behind the radio by reaching into the cavity on top of the radio , applying pressure to the harness retention clip, and remove the harness.

5) Install the rest of the system as described in steps 6, 7, 10 and 11 of the Full-Sized Range Rover instructions and reassemble in the reverse order.

Both the video and rear view camera inputs are located on the grey 6 pin plug at the back of the LCD monitor. Some vehicles are prewired and some are not. The provided RCA cables will either need to be soldered onto existing wires or inserted into the empty slots

With the grey 6 pin connector locking tab facing upwards, the far right top and bottom slots are for the video input. The center top and bottom slots are the RVC video input. On both inputs the top is + and the bottom is negative.

FAQ

- After installation the system does not boot up properly.
  A) Check your T-harness and adapter harness, making sure that they are plugged in and no pins are pushed out the back side of any of the plugs.
- All I get is a black screen in reverse.
  A) A black screen means that the module is working correctly. The issue is either the RCA installation at the monitor (backwards) or there is a defective camera, camera RCA run or the camera is simply not getting power.
- How do I engage VIM?
  A) VIM is automatic and does not require any action from the end user.
- What if I am still having problems?
  A) NAV-TV is happy to assist you. We have trained technicians to assist you M-F 9 AM to 5 PM EST. You may contact our support department at 1-866-477-3336.

NAV-TV
INTERFACING THE FUTURE