Dear customer,
Thank you for purchasing our Nav-TV product.
Please read the following note before installing our product:

By purchasing and installing our products, you agree that Nav-TV, its owners and employees, cannot be held liable for any accidents, tickets or misuse of our products, caused by the driver's distraction, that could lead to such. Our products are intended for passenger entertainment and off-road use only.

YOU SHOULD ALWAYS WATCH THE ROAD!!!!

Please note that in some states it is illegal to have a TV viewable by the driver when the vehicle is in motion. Please follow your state laws!

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XS TV-TUNER LOCATION

3 SERIES TUNER LOCATION

3 SERIES CONVERTIBLE CUSTOM BRACKET

5 SERIES TUNER LOCATION

RANGE ROVER
TV TUNER INSTALLATION STEPS

5 + 7 Series - Remove the CD changer and note the empty bracket behind it that would hold the video module.

STEPS:

2. Remove trim covers from left side of the trunk, remove the navigation computer by using a radio removal tool or a similar tool. Unplug it by pressing the small plastic tab on each connector by pulling the black lever outwards.

3. Using a razor blade, carefully separate the two harnesses, so you would be left with the blue plug harness. This harness would later plug into female version of the plug, from.

4. Mount the video module on its bracket, install the nut on the bracket and tighten the video module, using the 10mm bolt.

5. Plug in the white or black connector from provided harness to the white socket of the video module. Run the other side of the harness through the navigation computer bracket and connect it to the navigation computer. Reconnect the purple factory connector back to the navigation computer. Connect the factory blue plug harness to the blue socket in the video module.

6. At this point, you can turn the ignition key on and make sure that TELEVISION appears on the menu. It will take a few seconds for the system to initialize. Select TELEVISION and test drive the car over 4 MPH to make sure the picture stays on.

Go back to the main menu, select NAVIGATION and make sure it works properly.
BEFORE

AFTER
Remove top cover and spare tire. Notice 2 nuts and 2 bolts (13mm) hold triangular shape bracket. Remove bolts and nuts, lift compressor and push it away to expose battery and plastic cover with BMW logo.

After removing plastic cover you will notice a plastic L shape bracket with empty slot for TV MODULE next to radio tuner.

Diversity antenna mounts inside your hatch rear spoiler. If you look inside rear door you will notice 3 torx screws and also 2 rubber grommets. Remove the grommets and 2 more torx screws. After removing all 5 screws spoiler cover can be taken apart, make sure you are pulling the top portion of the spoiler apart. Use the rubber boot from the spoiler to snake in the wires.

FINISHED INSTALL
1. Locate the radio tuner, silver box located front of TV-tuner

2. Locate big black plug on radio tuner, that will contain white and black plugs inside. Unplug the white plug, insert metal pins from twisted pair cable included in your kit, into pins 11 and 12.

3. Locate colors from twisted pair audio line coming out of the original blue plug. Tap the two wires your previously connected on the white connector, into black plug with same colors of twisted pair cable as located the original blue connector.
TV-TUNER module goes under drivers seat. GPS computer is located under passengers seat. We recommend that remove both front seats ans center console. Run all the wires with harness from passengers seat to drivers seat under the carpet.

Mount factory amplifiers on each side of the window. You will notice factory location for amplifiers using factory bolts that hold ground, and connector leads to connect amplifiers.

Secure each amp with ground bolts, you will find on each of the window sides. Do not forget to reconnect the ground. Do not turn ignition on while seats are removed to avoid airbag light.
ANTENNA INSTALLATION

1. Remove the back seat and the left rear pillar cover

Recommended Antenna Location:

3 Series - in the rear bumper cables through rubber grommet on the left side above the muffler.
X5 Series - in the rear spoiler, cables through existing rubber grommets.
5+7 Series - inside of the rear window.

2. Plug both antenna leads to the video module.
3. Reinstall all the covers and trim, that should conclude the installation process!

AUDIO FOR 2002 & UP MODELS ONLY

1. Locate the radio tuner, silver box located to the left of the CD changer (E39, E38 and E46) or under spare tire (E53 - X5)
2. Locate big black plug on radio tuner, that will contain white and black plugs inside. Unplug the white plug, remove the shell, insert metal pins from twisted pair cable included in your kit, into pins 11 and 12.
3. Locate colors from twisted pair audio line coming out of the original blue plug (behind GPS). Tap the two wires your previously connected on the white connector, into black plug with same colors of twisted pair cable as on the original blue connector.
1. When the video module is installed correctly, **TELEVISION** option would appear on the main menu.

2. You would use the right **SELECTOR** knob to navigate through different television options menu’s and channels.

3. Turn the **SELECTOR** to the right to move selection down or to the right.

4. Turn the **SELECTOR** to the left to move selection up or to the left.

5. Press the **SELECTOR** knob to activate your selection.

---

**PROGRAMME**  Stored TV channels
**SEARCH**     Automatically searches the TV station
**AUTOSTORE**  Feature will autostore all local channels in the memory
**SET**        Color configuration and country settings
**DISPLAY**    Configure screen size
**TV-FORMAT**  Option to choose country setting  
(USA has to be set as country in order for tuner to work properly)

**AUTO STORE**  Automatically stores the strongest TV stations into  
Memory locations 21-30
BMW, RANGE ROVER, MINI

** DO NOT CUT THE ORIGINAL WIRES !!! TAP THE 3 WIRES ON THE JUMPER HARNESS TO THE EXISTING WIRES **

Remote turn-on wire: solid White wire, low current 12V remote.
Location: at the radio tuner (trunk) and at the OEM amplifier (trunk)

** Use this wire to trigger a relay for applications like DVD players, amplified antenna etc. **

Remote turn on relay configuration, Standard Bosch-Type SPDT or SPST

![Schematic and Pinout Diagram]

Pin 86 - 12V turn on - white wire
Pin 85 - Ground - brown wire
Pin 30 - 12V constant - Red/Green stripe
Pin 87 - 12V Output - to DVD player or other accessory

*** All wires are found at the factory Radio tuner and/or Amplifier. Make sure a fuse is installed inline to pin 30! ***

1. No Audio, Video works fine: make sure the audio jumpers on the radio tuner are installed properly

2. Black screen, Radio can be heard:
   - Check the integrity of the 3 tapped wires. A bad data wire could sometimes cause erratic operation.
   - soldering all the wires is highly recommended.
   - Plug the blue connector back to the NAV computer. If you have a menu screen working fine, reconnect the TV Tuner but, unplug the NAV computer. After 15-20 minutes the TV Tuner should take over and produce t's own Main Menu screen.
   - If that's the case, the problem lays in the jumper harness. If no menu appears, suspect a defective TV Tuner. (very rare!)

3. TV Reception or Video input not stable, picture scrolls and shows black and white:
   - Unplug both antenna connectors. Set the country setting to USA. (in Europe to your country)
   - While on AV mode, set to NTSC in North America (PAL in most of Europe)

4. Audio and Video noise - mostly noted when using PS2 or when a 12v - 110v inverter is present.
   - Connect audio, video shields directly to the TV Tuner chassis. Sometimes an extra ground to vehicle chassis is required.

5. Range Rover - there is a known problem with the grounds in those vehicles (looks like a factory ground loop) that may cause erratic TV and Navigation operation. Reinforce the Brown ground wires directly to vehicle ground, and connect a ground wire to the TV Tuner chassis itself.