

Installation and User Guide

BMW F30 & F80

For the BimmerTech MultiMedia Interface

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Introduction

Thank you for purchasing BimmerTech products! We strive to deliver the most functional, reliable and high quality BMW upgrades on the market. Our kits are do it yourself friendly, but if you're not fond of working on your car don't worry. You can always take your kit along with these installation instructions to one of our recommended installers:

https://www.bimmer-tech.net/dealers

or to any other professional installer in your area. If you will be handing the installation over to a shop from outside our recommended list ideally it should specialize in BMW vehicles.

If you will be installing the kit by yourself then it is recommended to do so in a clean, spacious, well lit and climate controlled garage without pressing time constraints. It's also possible to perform the installation in a driveway or parking lot if you prepare the correct tools and nice weather.

The installation requires disassembly of various areas of the vehicle so it's best to take your time, be gentle, careful and diligent in keeping track of which screw and clip came from where in order to reinstall the parts correctly.

Please read the instructions in full before beginning the installation and also make sure to have a look at the below installation videos. The videos are showing a previous generation of MMI being installed in an F30 BMW. Because of this some cable connections and settings will be different. The dashboard trim removal is the same. The front and rear camera installations will have some differences but the video will still be valuable in conveying the general process.

https://www.youtube.com/watch?v=SksfQZnKILg

https://www.youtube.com/watch?v=7h_b8z7qxGk

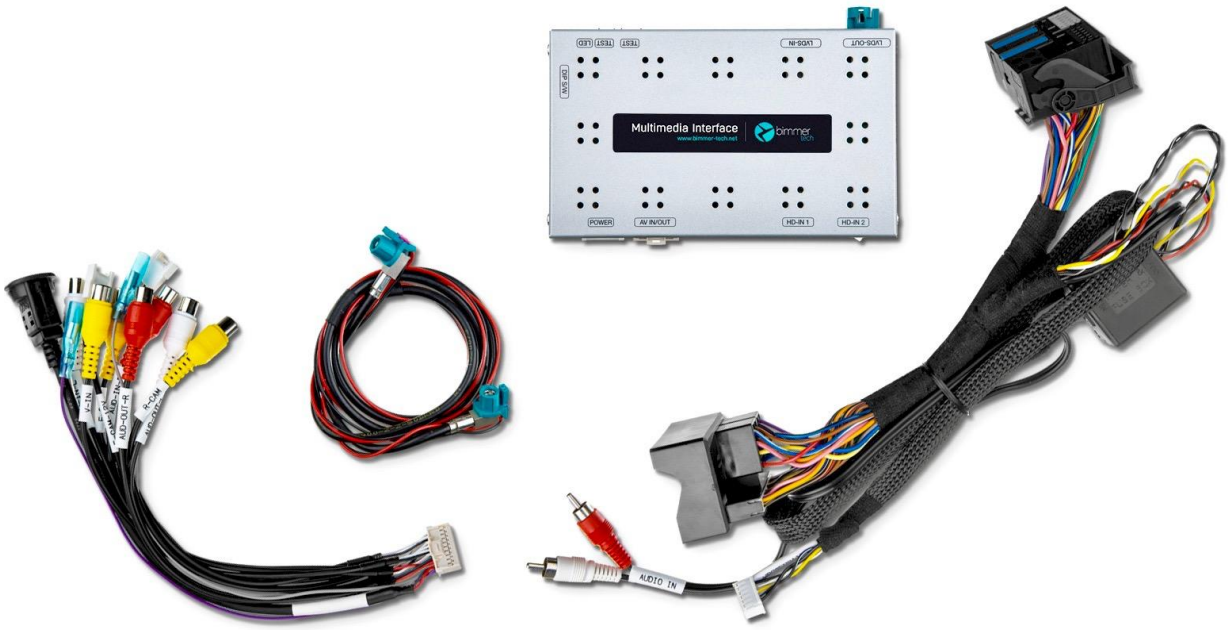
This manual contains information on how to install the MMI, Front Camera, Rear Camera and various versions of our SmartView HD devices. If you will not be installing one or more of the components from the above list simply skip the respective installation steps specific to them.

This manual also contains user guides for setup and operation of the various kit components as well as a Q&A portion that explains what to do when you encounter the most common setup or operation obstacles.

Kit contents

MMI module kit

1. MMI QHI-BM12
2. Video output cable from MMI to BMW screen
3. P&P Harness
4. RCA Harness



Rear View Camera and Extension Cable



Front view camera + Extension Cable



SmartView HD ATV3



SmartView HD ATV4



SmartView HD FLEX



Recommended and useful tools

- BimmerTech Trim Tool Kit (Highly Recommended)
- T-20, T-25, and T-30 Bits
- Phillips Head Screwdriver
- Drill with an 8mm or 5/16 Drill Bit
- Electrical Tape
- Zip Ties
- Pliers
- 8mm and 10mm Socket and Ratchet
- 3mm Allen Key
- Double Sided Mounting Tape (Recommended)
- Sturdy Wire or Thin Hanger for Feeding wire
- Flashlight

Setting up the DIP switches on the MMI

In order for the MMI module to work correctly the little DIP switches on the side of the MMI module will have to be set up according to your vehicles specification as well as the additional video sources being connected (e.g cameras and SmartView).

Important Note: every time you change DIP switch settings make sure to disconnect the MMI modules POWER connector for 10 seconds. This will allow the change to take effect.

Dip Switches						
1		2		3		4
ON	OFF	ON	OFF	ON	OFF	
Disable HMDI-1 (SmartView HD)	Enable HMDI-1 (SmartView HD)	Disable HMDI-2 (SmartView HD)	Enable HMDI-2 (SmartView HD)	Disable AV-IN (SmartView)	Enable AV-IN (SmartView)	No function

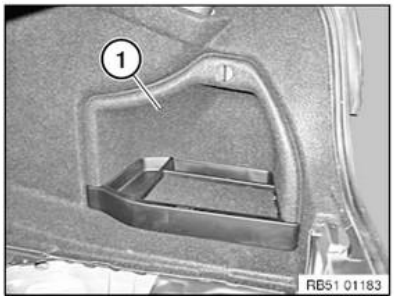
Dip Switches						
5		6		7		8
ON	OFF	ON	OFF	ON	OFF	
6.5” Screen / 8.8” Screen	10.2” Screen	8.8” Screen / 10.2” Screen	6.5” Screen	BimmerTech RVC	OEM RVC / No RVC	Always OFF

Installing the MMI

Begin the installation by disconnecting the negative battery terminal of the car battery to reduce the risk of damage to electrical components:

Remove right luggage compartment trim panel

REP-TAT-P-5147-01-F30



- Remove right luggage compartment trim panel (1).

61 20 900 Disconnecting and connecting battery earth lead

Warning!

Observe the safety informations for handling the battery!

Follow instructions for disconnecting and connecting battery!

Observe notes on power supply / on intelligent battery sensor (IBS).

Necessary preliminary tasks:

For F20; F21; F22; F23; F87:

- Lift luggage compartment floor

For F30; F32; F35; F80; F82:

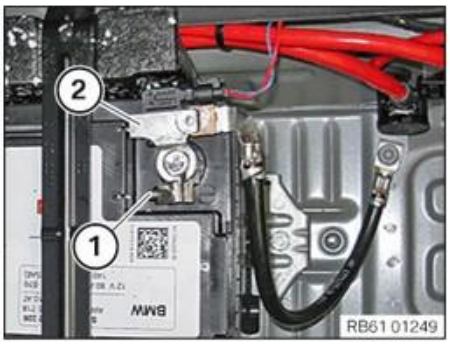
- Open flap in luggage compartment panel on right

F31For:

- Remove battery cover

For F33; F34; F36; F83:

- Remove luggage compartment trim on side panel on right



Note:

With lead-acid battery (F2x; F87 only).

Loosen nut (1).

Tightening torque 61 21 1AZ.

Important!

Do not under any circumstances use force to pull off negative terminal.

Pull off battery earth lead (2) and IBS in an upward direction, place to one side and secure.



Note:

With lead-acid battery (F3x only).

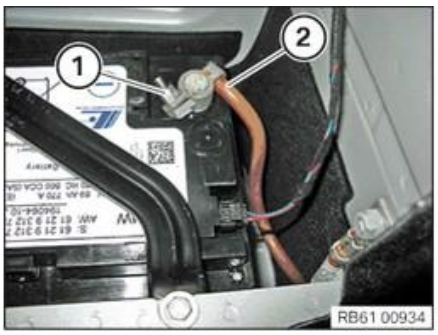
Loosen nut (1).

Tightening torque 61 21 1AZ.

Important!

Do not under any circumstances use force to pull off negative terminal.

Pull off battery negative lead and IBS (2) in an upward direction, place to one side and secure.



Note:
For lithium ion battery (only F8x).

Loosen nut (1).

Tightening torque 61 21 1AZ.

Important!
Do not under any circumstances use force to pull off negative terminal.

Pull negative battery cable (2) up and off, place to one side and secure.

Head Unit Removal

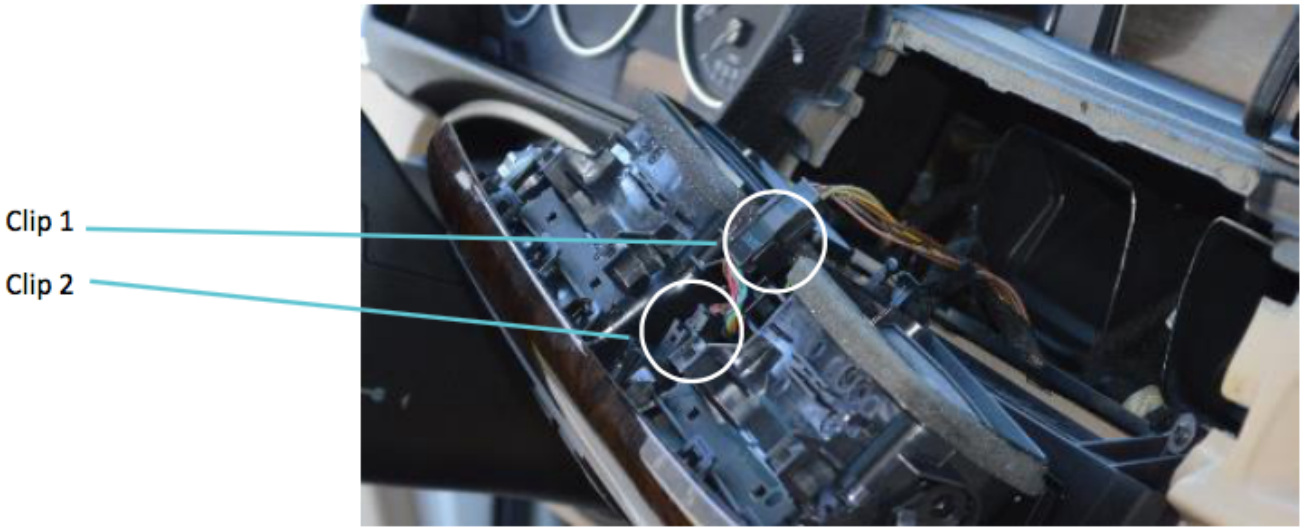
Remove the trim surrounding the factory head unit and vents, using a trim tool, being careful to not scratch any components. To do this, gently slide one of your trim tools under the trim, as shown below, and slowly pry up as you make your way across the top and bottom of the trim. Be especially careful when working with the right hand side of the trim, as it is very thin.







Unplug the two connections, located behind the hazard button and climate control dial.

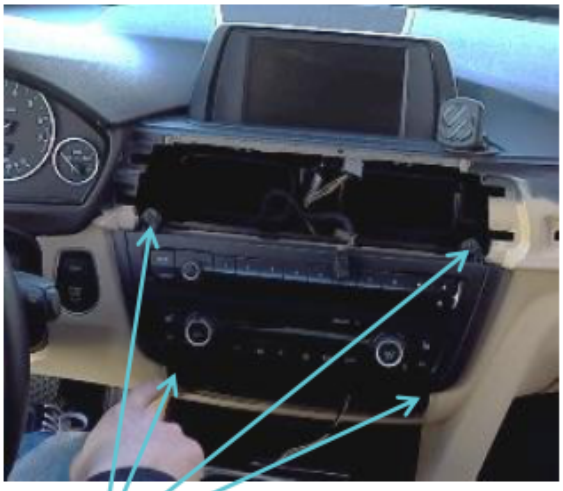


Remove the lower compartment by gently prying rom the top down, with one of your trim tools. Disconnect the cable from the small map light.





Remove the four T20 screws, as shown below and remove the radio and climate control faceplate. Be sure to unplug the connection, which will be located on the right hand side.



T20 Screw Locations



Remove the two T20 screws and Gently slide the head unit out.



Screw 1 Screw 2

Unscrew the two T20 screws located beneath the iDrive screen. Gently lift up and remove the screen. Be advised that there are two clips that secure the back of the screen, similar to the ones that hold the dash trim in place.



Once the iDrive screen is out, gently remove the video cable by pressing on the tab and sliding the clip off. Feed this wire down behind the factory head unit. Plug this cable into the Multimedia Interface where it is labeled “LCD In”.



Clip the new included video cable (with teal colored plugs) into the iDrive screen and clip the other end into the Multimedia Interface under “LCD Out”



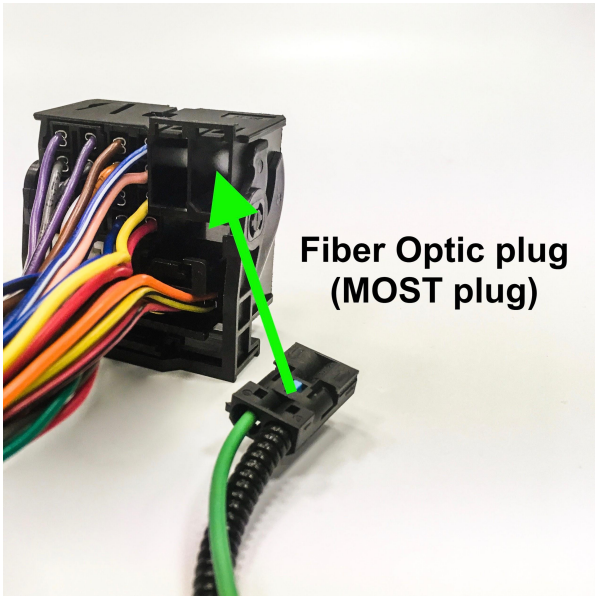
Remove the large square harness by pressing down on the clip. Once the clip is pressed, the square connector will begin to slide out.

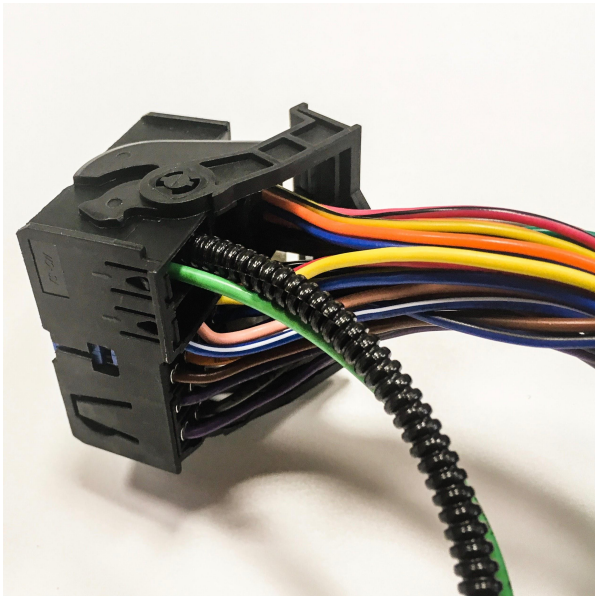


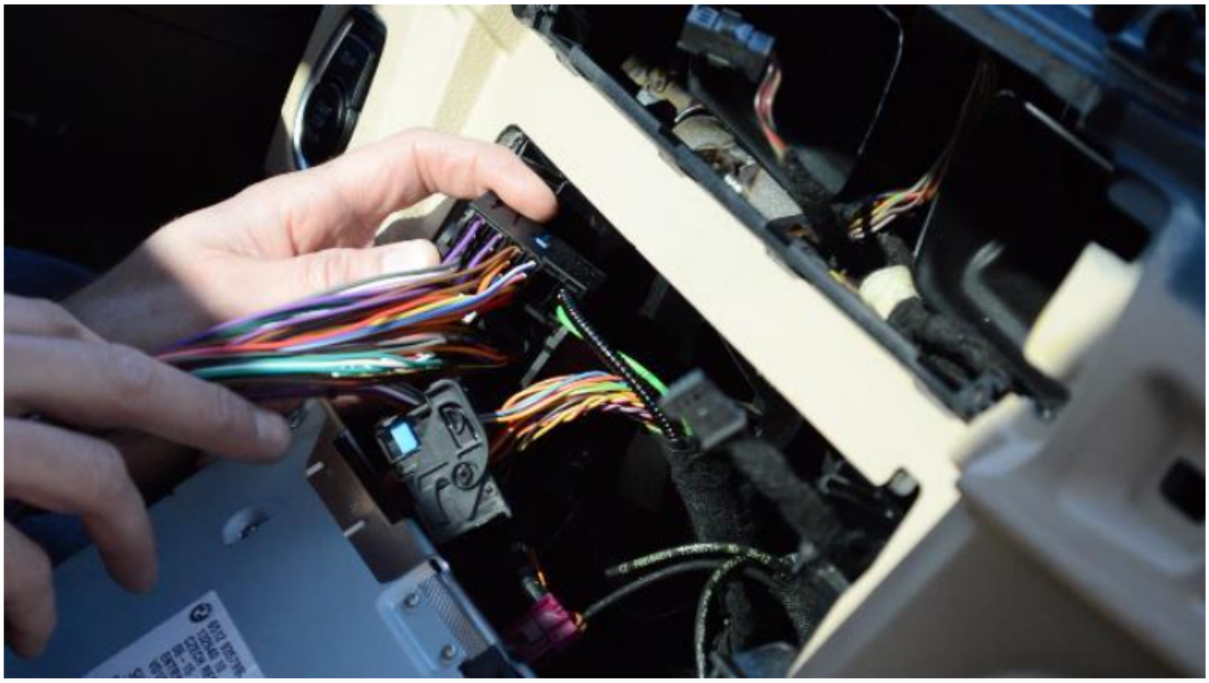


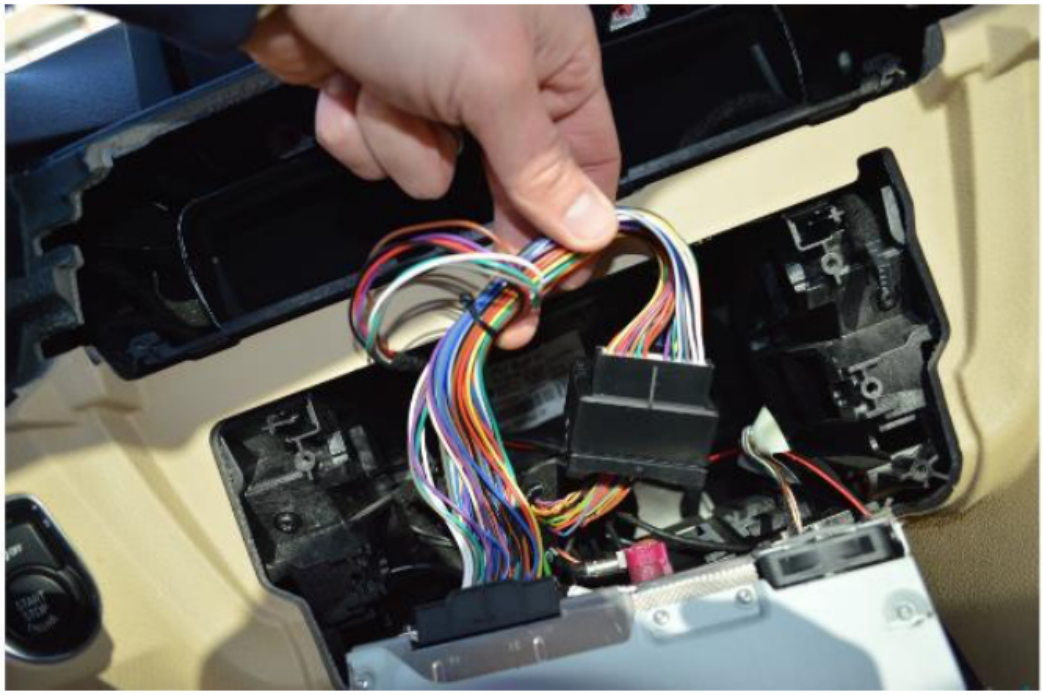
Please move the fiber optic cable from the factory quadlock (if you have one in the original quadlock as not all vehicles do) by unfastening the securing tab and pulling the Fiber Optic cable out. The cable will not resist if the securing latch is released correctly. Reinsert it in the PnP harnesses quadlock in the same spot.

Once the Fiber Optic Cable has been moved to the new harness, plug in the square harness into the back of the head unit and to the existing harness.









Carefully reinsert the head unit, being careful with the new harness and reinsert the securing screws.

Connect the Power plug from the PnP harness to the MMI module, and also connect the RCA harness to the module. Connect the Audio out RCA plugs from the RCA harness to the Audio In RCA plugs on the PnP harness. Even if you will not be installing a SmartView mirroring device at the moment they will come in handy if you decide to add a SmartView mirroring system in the future.



Important Note: If your head unit is larger than the one in the above picture you can install the MMI module in a space between the glove box and head unit as shown in the following video:

https://www.youtube.com/watch?v=7h_b8z7qxGk

Installing the Front View Camera (FVC)

Once again the F30 video installation guide will offer you invaluable information on the front camera installation process:

https://youtu.be/SksfQZnKILg?t=11m57s

Drop the plastic area shown below, by removing the two 10mm nuts, as pictured below. Once the nuts are removed, use a trim tool to gently pry down and pop the remaining clips. Run the wires under the plastic by the foot well of the driver's seat, being careful not to interfere with the airbag.



Remove the three 10mm plastic bolts. Turn these 90 degrees counter clockwise to release. Pull off the plastic panel to expose the firewall and the grommet that we will be drilling through.

The simplest and most efficient way to route the Front View Camera wire through the firewall is to drill a hole in the existing grommet, as shown below. Be sure to drill a large enough hole (yellow dot), so that the plastic clip will easily fit through, while being extremely careful not to make contact with any other wires.

Once you've drilled through the grommet, use a sturdy wire or a thin hanger to route the wire through the grommet.

Please remember the battery must be disconnected – we don't want fans to turn on while you're working with your hands under the hood.







Route the camera cable around the engine bay all the way to the rubber grommet in the firewall as space permits, and proceed to run it up to the MMI module, connecting it via the camera connecting cable to the F-CAM video input and F-CAM power socket on the RCA harness.

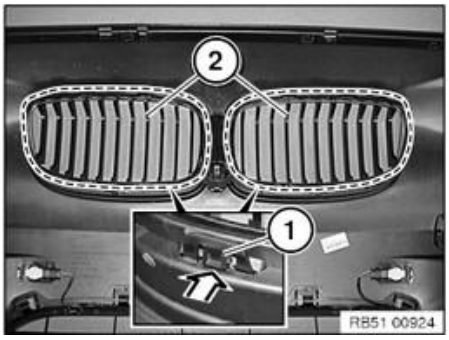
Make sure the front camera picture is unobstructed by the grille and not upside down. If the camera works fine you can now secure the camera cable with cable ties to prevent it from moving around. After the cable is in its final location seal the hole you made in the grommet with black silicone.

If your vehicle has a mesh grille, simply unscrew the camera and install it through the mesh from the rear and screw it back together. You might be able to do this without removing the bumper cover if you first remove one of the kidney grilles for easy access. A more than firm pull on the grille might be necessary for the clips to release the grille from the bumper. On some models of cars it’s easier than others. Do not use excessive force to pull off the grille but some force is required to release it from the bumper.

51 13 001 Removing and installing/replacing front radiator grille, middle left or right

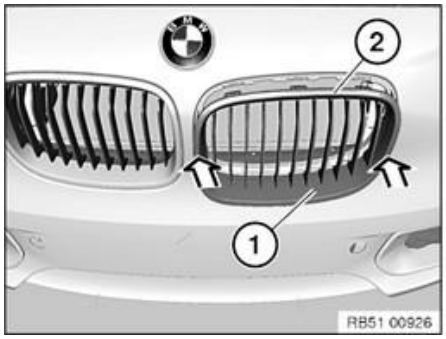
Necessary preliminary tasks:

- Remove front bumper panel



Release all retainers (1).

Remove front radiator grille (2) towards front.



Installation note:

All catch mechanisms and guides on the front radiator grille (2) may be neither damaged or missing.

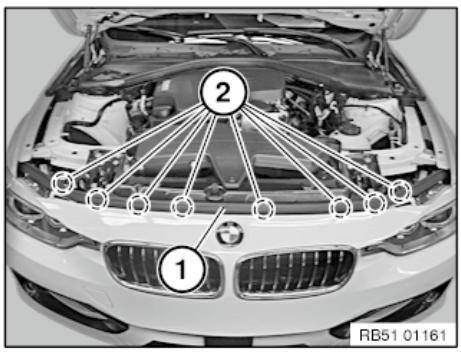
Press on chrome ring to push front radiator grille (1) into bumper trim.

Fixtures must be correctly locked.

Some mesh grilles might require the use of a dremel tool to trim the grille ever so slightly to allow the installation of the camera. Be sure not to trim too much. Then slide the heat shrink provided with the front camera over one of the cables making sure the small white connectors are firmly attached to each other. Confirm the camera works and heat up the heat shrink carefully making sure not to disconnect the connectors inside. The heat shrink has thermal glue inside which has very good moisture isolation properties but is also really hard to remove if you make a mistake.

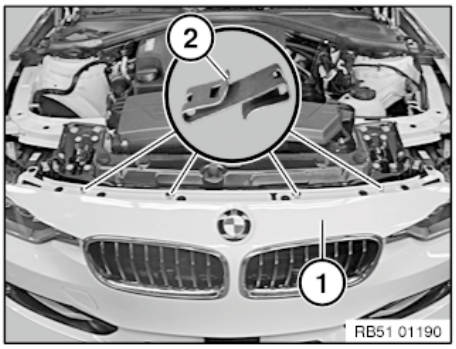
The heat shrink should be applied in a manner to cover all other heat shrink sleeves near the connections for best isolation from the elements.

To remove the front bumper panel:

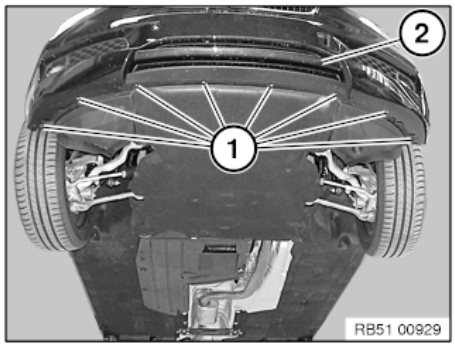


Remove gasket (1) and release screws (2) beneath it.

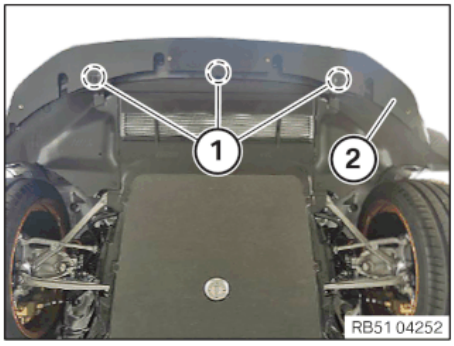
Tightening torque 51 11 1AZ.



Installation note:
Feed bumper panel (1) correctly into clamps (2).

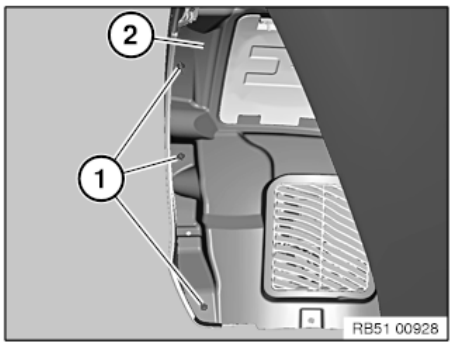


Release screws (1) and expanding rivet, if applicable, on bumper panel (2).



Only F82 GTS:

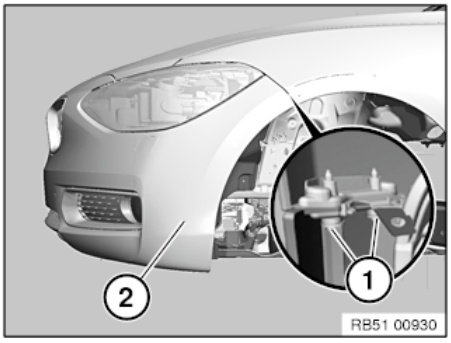
Loosen the screw (1) on the front splitter adapter (2).



Release screws (1) on wheel arch cover (2) on left/right.

Lift out wheel arch cover (2) at side.

Installation note:
Make sure wheel arch cover (2) is in correct position.



Release screws (1) on left/right.

Tightening torque 51 11 11AZ.

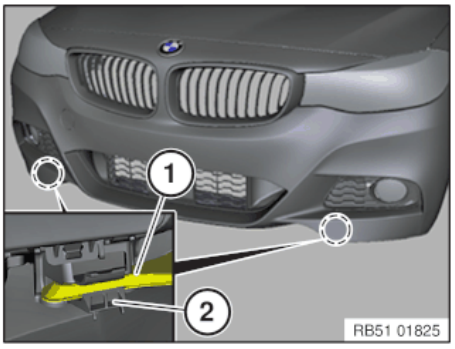
Note:

The following tasks must be carried out with a second person assisting:

Pull bumper panel (2) forwards a little.

Unlock and detach plug connections on the following components depending on the version.

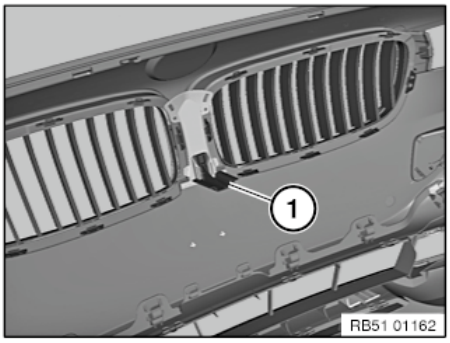
- Ultrasonic sensors PDC (right wiring harness)
- Pedestrian protection sensor (right and right wiring harness)
- Ultrasonic sensors for parking manoeuvring assistant (left/right)
- Fog light (left/right)
- ACC sensor (middle)



Version with M Aerodynamics package:

Unfasten mount (1) from catch (2).

Remove bumper trim panel forwards.



Installation note:

Feed support (1) out toward the bottom and insert from the top in the first retaining lug.

After the bumper panel has been removed, push the support (1) down until it is placed on the support.

Route the camera cable around the engine bay all the way to the rubber grommet in the firewall as space permits, and proceed to run it up to the MMI module, connecting it via the camera connecting cable to the F-CAM video input and F-CAM power socket on the RCA harness.

Make sure the front camera picture is unobstructed by the grille and not upside down. If the camera works fine you can now secure the camera cable with cable ties to prevent it from moving around.

After the cable is in its final location seal the hole you made in the grommet with black silicone. Proceed to reassemble all of the trim pieces.

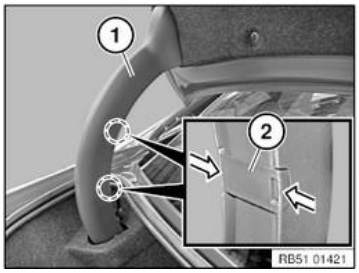
Installing the rear View Camera (RVC)

Attached are instructions how to take apart the trunk lid. You have to replace the factory trunk handle with the new one (in the process move the switch mounted on a bit of plastic from your original trunk handle to the new one) and then run the camera cable all the way to the dashboard under various trim pieces, through the rear seats and under the door sills. A coat hanger feeder wire will come in handy during this part of the installation. Then connect the yellow RCA cable from the rear camera extension cable to the yellow RCA socket marked (R-CAM) in the RCA harness and also connect the rear camera power connector to the respective R-CAM power socket on the RCA Harness.

Removing and installing/replacing trim for tailgate hinge on left or right

REP-REP-RAF3051-5149X01

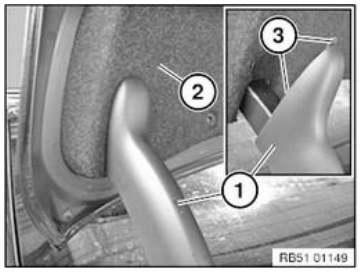
51 49 ... Removing and installing/replacing trim for tailgate hinge on left or right



Gently press together trim panel for hinge (1) in area of tabs (2) and open tabs (2).

Installation note:

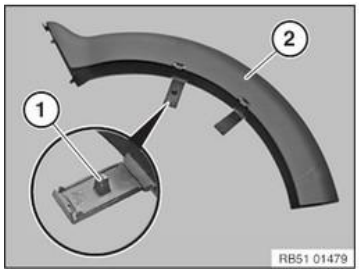
Tabs (2) must not be missing or damaged.



Pull out trim panel for hinge (1) from tailgate trim panel (2) and feed out of hinge.

Installation note:

Catches (3) on trim for hinge (1) must not be missing or damaged.



Installation note:

Pin (1) must be inserted in corresponding opening in hinge.

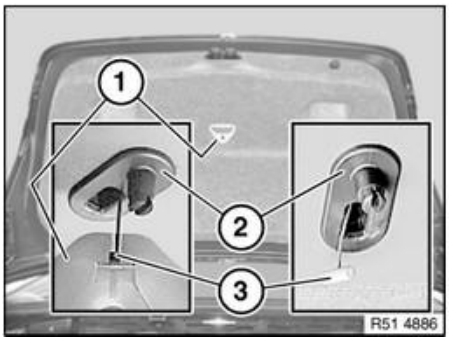
On vehicle versions before 03/2012, it is possible hinges are installed without a corresponding opening.

On replacement of trim panel (2), pin (1) must possibly be removed.

51 49 000 Removing and installing or replacing trim for rear lid

Necessary preliminary tasks:

- Remove both trim panels for hinges



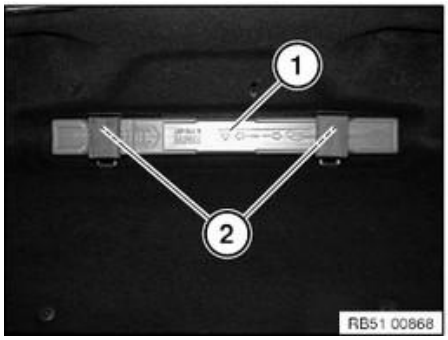
Version with emergency release:

Detach handle (1) from clip (2).

Unhook Bowden cable (3) from handle (1).

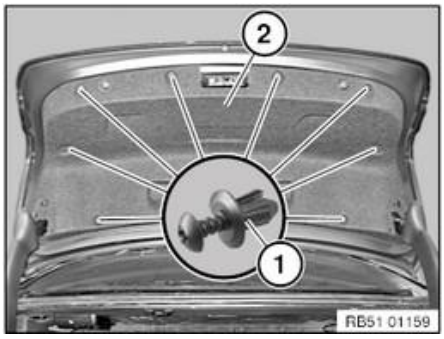
Installation note:

Feed Bowden cable (3) through clip (2) and engage correctly in handle (1).



Remove warning triangle (1) from bracket.

Release screws (2) and remove warning triangle holder.



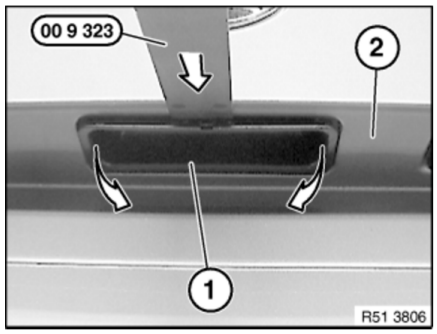
Release expanding rivet (1).

If necessary, feed out Bowden cable from emergency release.

Remove trim panel (2).

Installation note:

Replace faulty expanding rivets (1).

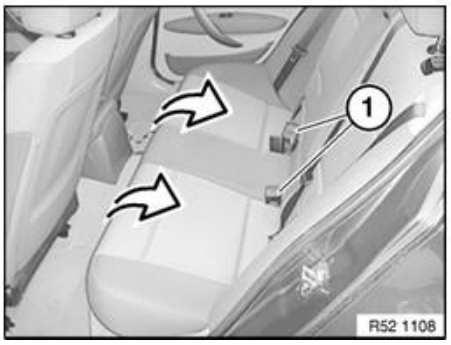


If necessary, disconnect plug connection in rear lid.

Move special tool 00 9 323 under front edge of button (1) and lever out button (1).

Pull button (1) out of rear lid (2).

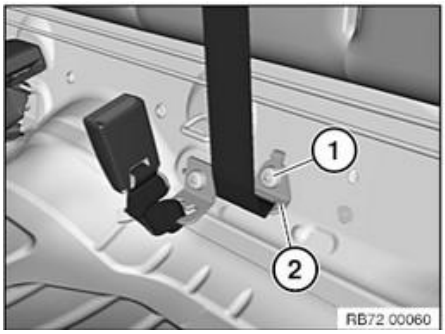
52 26 005 Removing and installing / replacing rear seat



Unclip rear seat on left and right towards top.

Installation note:

Feed seat belt buckles (1) into recesses in rear seat.



F30 only:

Release screw (1) from seat belt end fitting (2), centre.

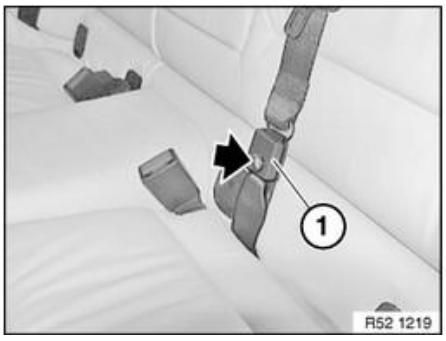
Tightening torque 72 11 22AZ.

Feed out the end fitting from the rear seat.

Lift out rear seat.

Installation note:

End fitting is coded against incorrect assembly.



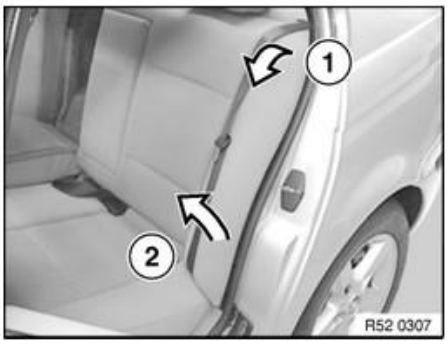
F35 only:

Unlock the belt lock (1).

Feed the rear centre lower strap and belt lock out of the rear seat.

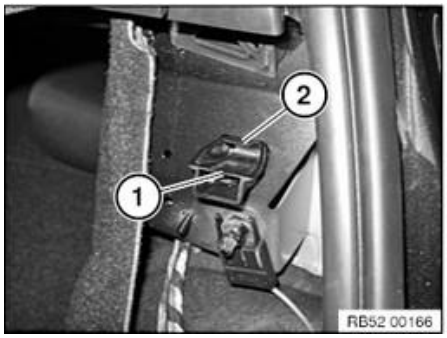
Lift out rear seat.

52 26 008 Removing and installing/replacing backrest side section on left or right rear seat backrest



Pull seat belt to middle and place over head restraint.

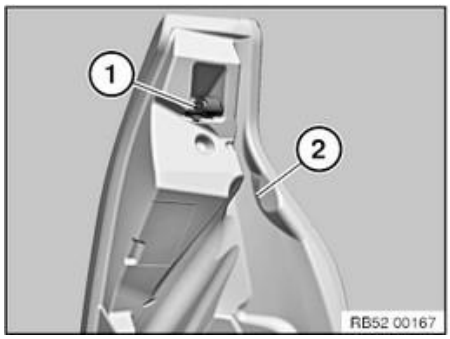
Pull top backrest side section (1) forwards and pull out upwards (2).



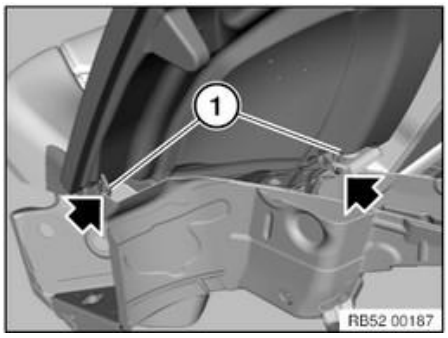
Press latch mechanism (2) to unlock the clip (1).

Pull clip (1) towards front out of the body.

If necessary, replace faulty clip (1).



Insert the clip (1) in the backrest side section (2).



Installation note:

Insert guides (1) from backrest side section into mountings.

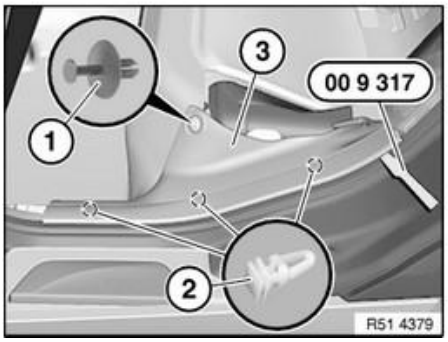
51 47 030 Removing and installing/replacing rear (inside) left or right door sill cover strip

Special tools required:

- 00 9 317

Necessary preliminary tasks:

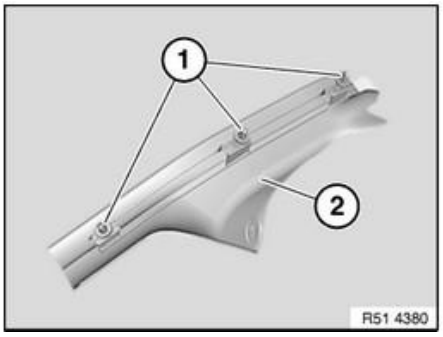
- Release rear seat



Release expansion rivet (1).

Release clips (2) on door sill cover strip (3) with special tool 00 9 317.

Pull door sill cover strip (3) up and remove.



Installation note:

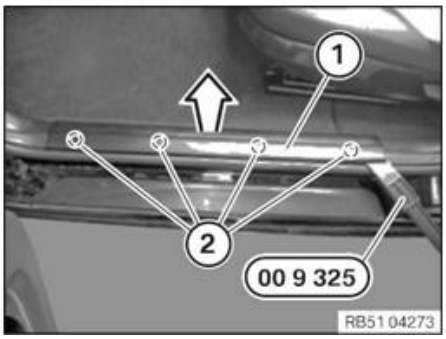
Replace faulty clips (1).

Fit door sill cover strip (2) with preinstalled clips (1).

51 47 000 Removing and installing/replacing front (inside) left or right door sill cover strip

Special tools required:

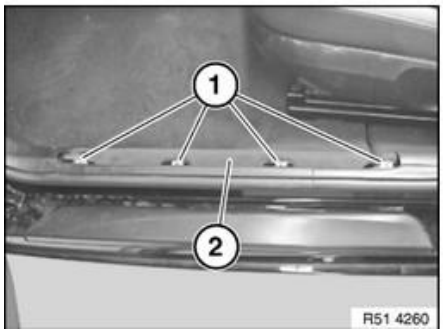
- 00 9 325



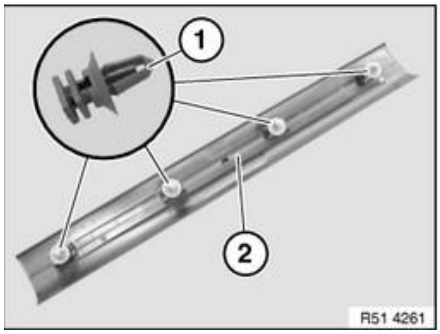
Attention!

Do not raise door sill cover strip (1) over entire length simultaneously.

Unclip rear door sill cover strip (1) from clips (2) starting from the rear with special tool 00 9 325.



If necessary lift clip (1) from floor panel (2) and clip on door sill cover strip.



Installation note:
Replace defective clips (1) on door sill cover strip (2).

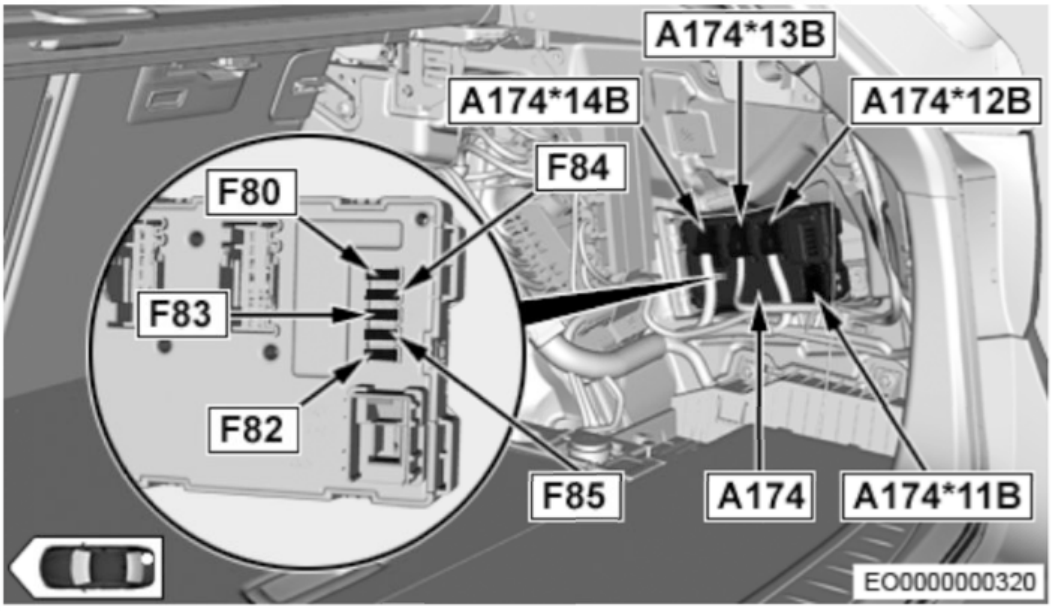
Manual transmission cars only

Change the screen mode to HDMI-1 by pressing and holding the iDrive controllers MENU button for 3s (DIP switch number 1 will have to be set to OFF to enable this).

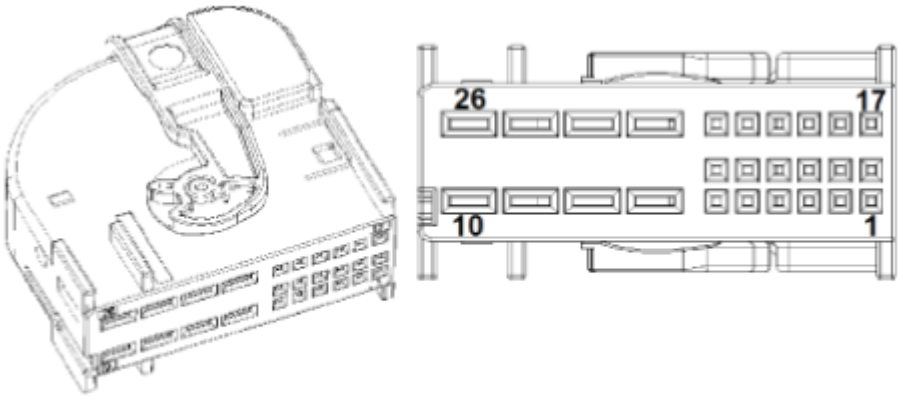
Important Note: You will need one enabled video input to be able to access the MMI's internal menu in order to change a settings in the internal menu if required. By default you will not need to do this as we preset the MMI for your exact order. If that does happen for the setup process you can set DIP 1 to OFF in order to enable the HDMI-1 input, carry out the setup process and later flip the switch back to ON to disable the HDMI-1 input again since the MMI retains all internal menu settings even after being disconnected from power.

Next enter the Factory Menu by pressing and holding the iDrive controllers BACK button for 3s.

Then go to PARK → REAR TYPE and change it to LAMP and save the setting. The Factory Menu will disappear on its own and you will be able to exit the HDMI-1 input by pressing the MENU button on the iDrive controller.



Then connect the grey wire (it might be a different color if we extended this wire in preparation for your installation) from the MMI RCA harness with the reverse light wire which can be accessed at the REM module (connector A174*13B - pin 3 – insulation color: black with blue stripe).



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Installing a mirroring device

SmartView HD FLEX

Installation Manual

Connect the SmartView module to the MMI HDMI-1 port using the supplied HDMI cable. Connect the micro USB plug to the SmartView micro USB socket labelled 5V and the other end of this cable to the rectangular USB type A socket located on the MMI RCA harness.

Included with the SmartView HD FLEX kit is a USB type A extension cable (with standard rectangular plugs). This extension cable should be plugged into the SmartView HD FLEX's USB A port labeled "USB" and routed to a place where it will be easily accessible in the future. It might come in handy to update the module's firmware if a iOS or Android update causes compatibility issues and we manage to come up with a firmware update that addresses such an issue. If this happens the latest firmware version will always be updated below this firmware update instruction video:

https://www.youtube.com/watch?v=FLpmLU4tMSM

The USB A extension cable can be routed to the glove box or to the area where the center console trim and the carpeting meet in the passenger footwell area. It can be tucked in under the trim which will allow to pull it out in case the need comes up.

Connect Audio IN RCA connectors from the PnP harness to the Audio OUT RCA sockets on the MMI RCA Harness. Make sure the vehicle's audio mode is set to AUX for mirroring. If you are not getting sound in this setup connect the 2x RCA to 3.5mm stereo minijack cable from the Audio OUT on the RCA Harness to the AUX input in your center console. You can route this cable out of the dashboard towards the passenger side footwell area by using a coat hanger feeder wire. Then tuck it in between the carpeting and center console trim and finally routu it up the the armrest area port. It will be barely visible this way.

User Manual

If you prefer a video manual we have one here: https://youtu.be/qBvaruad0Yo?t=1m12s

Activate SmartView HD FLEX by holding the iDrive Controller Menu button for over 3s or the #8 on the radio faceplate. This will bring you to the SmartView HD FLEX welcome screen.

Please wait until there is an IP address on the display along with a network name (BimmerTech XXX) Then simply connect to the WiFi network shown on the welcome screen and activate AirPlay/Miracast mode to mirror your iPhone or Android phone onto your iDrive screen. Sometimes it is necessary to

repeatedly attempt connecting to the BimmerTech WiFi network before a connection is established successfully.

If the unit is not powering up – make sure to check the power supply and that the micro USB cable is securely connected to the USB type A plug on the RCA harness of the MMI. If the unit is getting power a blue LED on the enclosure will be lit up.

If you cannot see a network name but the welcome screen comes on, then the first step is to perform a reset of the unit by disconnecting the power supply. Please note that it may take some time – about 5-10 seconds for the network name to appear after turning ON.

If there are any issues with mirroring your smartphone, please check if other phones have the same issue or not.

SmartView HD ATV3

Installation Manual

Plug the Apple TV3 USB cable into the USB socket on the MMI RCA harness. Next connect the supplied HDMI cable from the Apple TV3 to HDMI-1 on the MMI.

Place the Apple TV3 IR sensor in the center console area beneath the radio or in another convenient but not easily visible location to provide good visual connectivity to the Apple Remote and IR sensor.

Connect Audio IN RCA connectors from the PnP harness to the Audio OUT RCA sockets on the MMI RCA Harness. Make sure the vehicle's audio mode is set to AUX. If you are not getting sound in this setup connect the 2x RCA to 3.5mm stereo minijack cable from the Audio OUT on the RCA Harness to the AUX input in your center console.

User Manual

If you prefer a video manual we have one here: https://youtu.be/qBvaruad0Yo?t=2m48s

To start mirroring from your iPhone to the Apple TV you will need to host a WiFi Hotspot through the settings menu of your phone. Then you'll need to enter the menu of the Apple TV and manually connect the Apple TV to your phones hotspot. You only need to establish this connection once and the ATV will remember your hotspot however the next time you want to connect the iPhone to the ATV you will need to enter the hotspot menu in your iPhone even though it is still turned on.

Activate SmartView by holding the iDrive Controller Menu button for 3s or press the #8 radio button. This will bring you to the ATV start Menu. On your first use, connect to your Wi- Fi/Hotspot through the settings menu. For Apple, swipe up on your iOS device and select AirPlay. Your Apple/iOS device is now mirrored.

SmartView HD ATV4

Installation Manual

On the Apple TV4 there are 2 wires that need to be tapped into the PnP harness, marked with GROUND and +12V labels.



The wire labeled GROUND from the ATV4 needs to be tapped into the PnP harness wire marked GROUND (Pin 12 of the Quadlock connector, blue insulation)

The wire labeled +12V from the ATV4 needs to be tapped into the PnP harness wire marked +12V (Pin 15 of the Quadlock connector, yellow insulation)

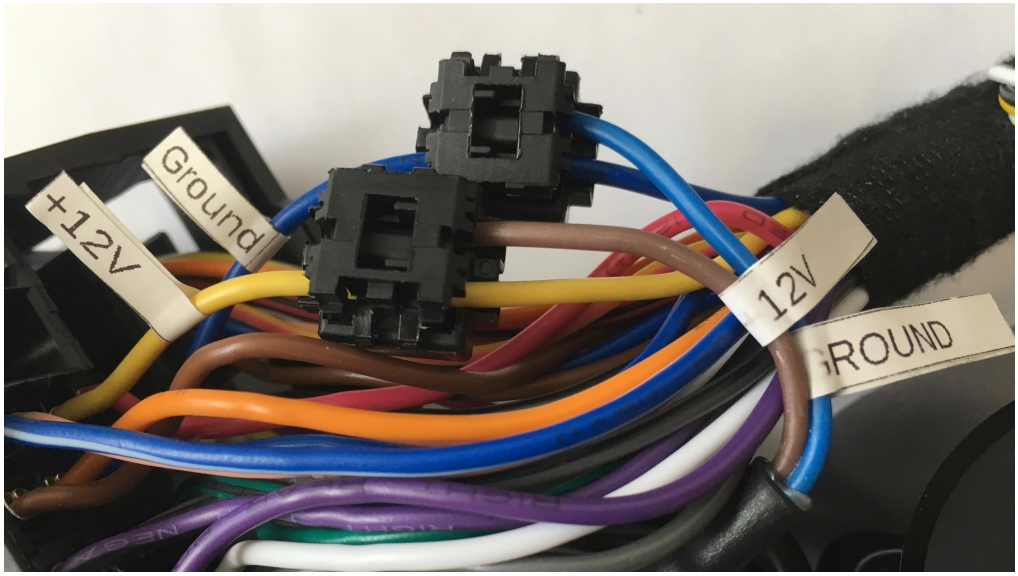
Please use the picture below for reference:



Squeeze the tap ins with pliers (hand strength will not suffice). Once the connections have been made the connections should look as shown below::

Brown +12V wire from ATV4 tapped into the yellow +12V wire from PnP harness

Blue GROUND wire from ATV4 tapped into the blue GROUND wire from the PnP harness



If your PnP harness did not come with labels on the blue and yellow wires, you can still hook up the wires for the ATV4 using the picture as your reference.

Connect the supplied HDMI cable from the Apple TV to HDMI-1 on the MMI

The Apple TV4 uses Bluetooth connectivity so it can be placed anywhere under the dash to communicate with the supplied remote control. We included a lightning cable that you can use to charge the remote.

Connect Audio IN RCA connectors from the PnP harness to the Audio OUT RCA sockets on the MMI RCA Harness. Make sure the vehicle's audio mode is set to AUX. If you are not getting sound in this setup connect the 2x RCA to 3.5mm stereo minijack cable from the Audio OUT on the RCA Harness to the AUX input in your center console.

User Manual

If you prefer a video manual we have one here: https://youtu.be/qBvaruad0Yo?t=2m48s

To start mirroring from your iPhone to the Apple TV you will need to host a WiFi Hotspot through the settings menu of your phone. Then you'll need to enter the menu of the Apple TV and manually connect the Apple TV to your phones hotspot. You only need to establish this connection once and the ATV will remember your hotspot however the next time you want to connect the iPhone to the ATV you will need to enter the hotspot menu in your iPhone even though it is still turned on.

Activate SmartView by holding the iDrive Controller Menu button for 3 seconds or press the #8 radio button. This will bring you to the ATV start Menu. On your first use, connect to your Wi- Fi/Hotspot through the settings menu. For Apple, swipe up on your iOS device and select AirPlay. Your Apple/iOS device is now mirrored.

User guide and basic troubleshooting

Split screen mode selection

Also applicable when your reversing camera suddenly vanishes.

To toggle betwee the split-screen modes:

- Activate one of the AV or HDMI modes by pressing and holding the “Menu” button in the iDrive controller for 3 seconds (dip switch 1, 2 or 3 needs to be set to OFF), or by engaging Reverse (dip switch 7 needs to be set to ON), even if the camera image no longer appears.
- Tilt the iDrive controller knob downwards ▼(6 o’clock position) and hold it for 3-4 seconds until a change happens on the screen.
- Repeat until a desired display mode is enabled or when the Rear Camera is back on
- If tilting the iDrive controller knob downwards does not help, please tilt the knob to the left ◄ instead. The rest of the procedure is identical.

Accessing the Factory Menu

It sometimes might be necessary to acces the Factory Menu of the unit to make changes to the settings. To enter the Factory Menu:

- Activate one of the AV or HDMI modes by pressing and holding the “Menu” button in the iDrive controller for 3 seconds (dip switch 1, 2 or 3 needs to be set to OFF), or by engaging Reverse (dip switch 7 needs to be set to ON).
- Press and hold the “Back” button on the iDrive controller for about 8 seconds.

Navigating the Factory Menu

You can navigate through the 5 submenus by rotating the iDrive controller knob and pressing down on it when you want to select something.

Rear View Camera Settings



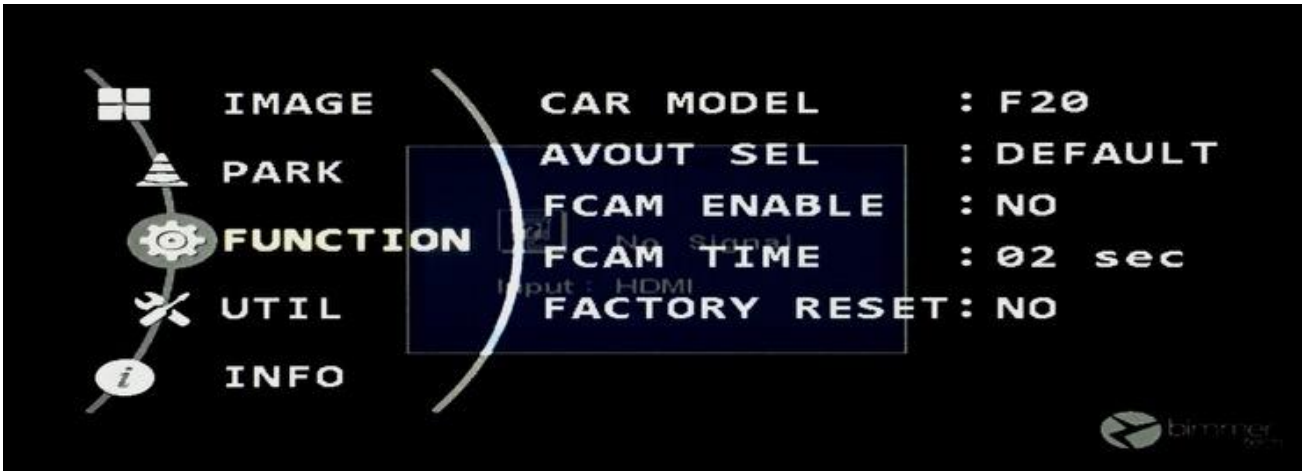
PAS TYPE			PAS SETUP	REAR TYPE	
NOT USED No parking lines	**PAS ON** Dynamic parking lines	**PAS OFF** Static parking lines	Parking Lines' Position Adjustment	**CAN** For cars with automatic transmission	**LAMP** For cars with manual transmission

Front View Camera Settings



FCAM KEY

YES	**NO**
Allows to engage the Front View Camera for an indefinite amount of time using the iDrive controller	The Front View Camera cannot be activated using the iDrive controller

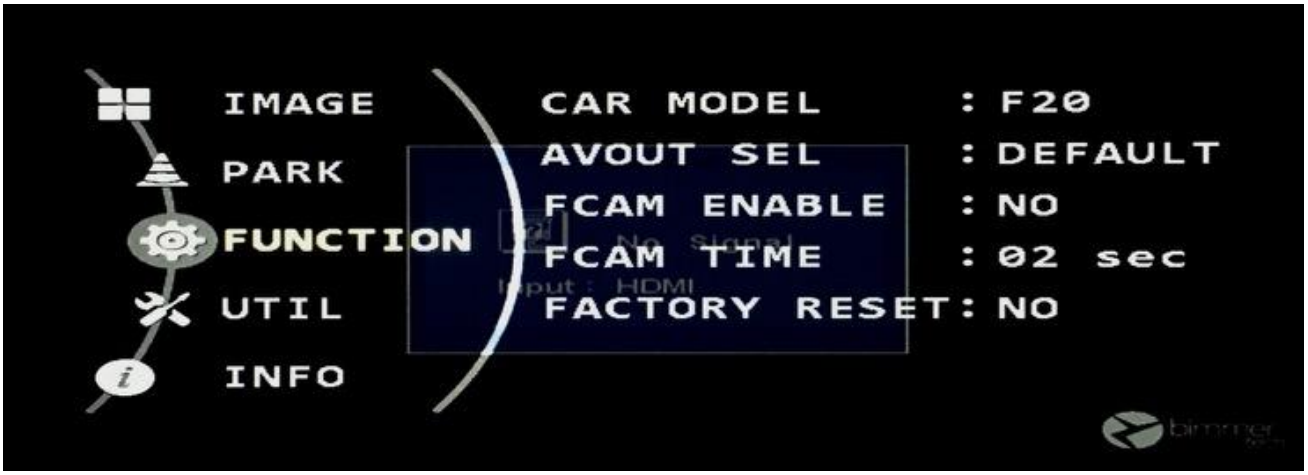


FCAM ENABLE		FCAM TIME
YES Automatically engages the Front View Camera when engaging Drive after getting out of Reverse	**NO** The Front View Camera will not activate automatically when engaging Drive after getting out of Reverse	Setting the time for which the camera image will be shown after engaging automatically. (Between 2 and 10 seconds)

Other useful settings



MEMORY KEY		I-DRV TYPE	
YES Allows to change between AV and HDMI inputs with #8 button on the radio faceplate	**YES** Disables the ability to change between AV and HDMI inputs with #8 button on the radio faceplate	**HIGH** Tilt and hold the iDrive controller knob downwards to toggle between split-screen modes / Activate the Front View Camera by tilting the iDrive controller knob upwards	**LOW** Tilt and hold the iDrive controller knob to the left to toggle between split-screen modes / Activate the Front View Camera by tilting the iDrive controller knob to the right



FACTORY RESET

If for some reason the MMI is not performing as it should and changing other settings does not bring any change, perform the Factory Reset.