

# WESTNAV

# Audi B8/8.5

## Installation Manual

(A4, A5,S4,S5,RS4,RS5, Q,5,SQ5)



# WESTNAV

## **WARNING**

Failure to adhere to the instructions provided by **WESTNAV** may lead to repeated installation or removal of the device due to installation errors. While we recognize that reading instructions may not be your preferred approach, we urge you to review the following pages at the very least for the benefit of all involved

### ***Often Asked Questions or Common Errors***

**Q: The airbag warning indicator has turned on in the instrument cluster, and there is a DTC code related to the ABS module and parking brake module.**

A: This indicator will illuminate if you powered the car while the factory or **WESTNAV** -supplied hazard button assembly is not connected to your car. You must clear this error with VCDS or OBD Eleven, or any other VAG service tool that can reset VAG airbag errors. If this error recurs, it's possible that you provided incorrect information about the hazard button when placing your order, or we may have sent you the wrong type of hazard button PCB. Please contact us for assistance.

**Q: There are several errors in the DTC code related to the J794 5F MMI Media Unit.**

A: Error code 00259, indicating a screen mechanism fault, intermittent signal errors, and implausible signals are common occurrences. Error code 00259 and screen mechanism fault typically indicate the absence of the original Audi screen. Other errors may be recorded when the MMI console is being used by the S3 Android system. It's important to note that these error codes do not affect your existing factory warranty.

**Q: Two LEDs in the MMI console continue to flash even after the car has been shut down and locked.**

A: This is a normal occurrence. The flashing will stop within the next 10 minutes. It indicates that a non-Audi original component has been installed in the car.

**Q: Should an external mic be installed? (For 8.8" or RHD only)**

A: Yes, it is required. Connect the external mic to the 3.5mm audio plug coming out of the screen.



# Installation Manual for B8, B8.5 Sedan or Wagon

*Here are the tools required:*

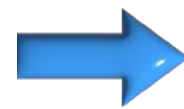
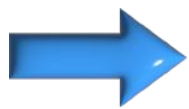
1. Car trim remover
2. 8mm Hex driver
3. T20 screwdriver
4. Cable ties
5. Volkswagen radio removal keys



***Please ensure you thoroughly read this manual first, as there are certain situations where specific actions must be taken or avoided.***

*Before beginning the installation:*

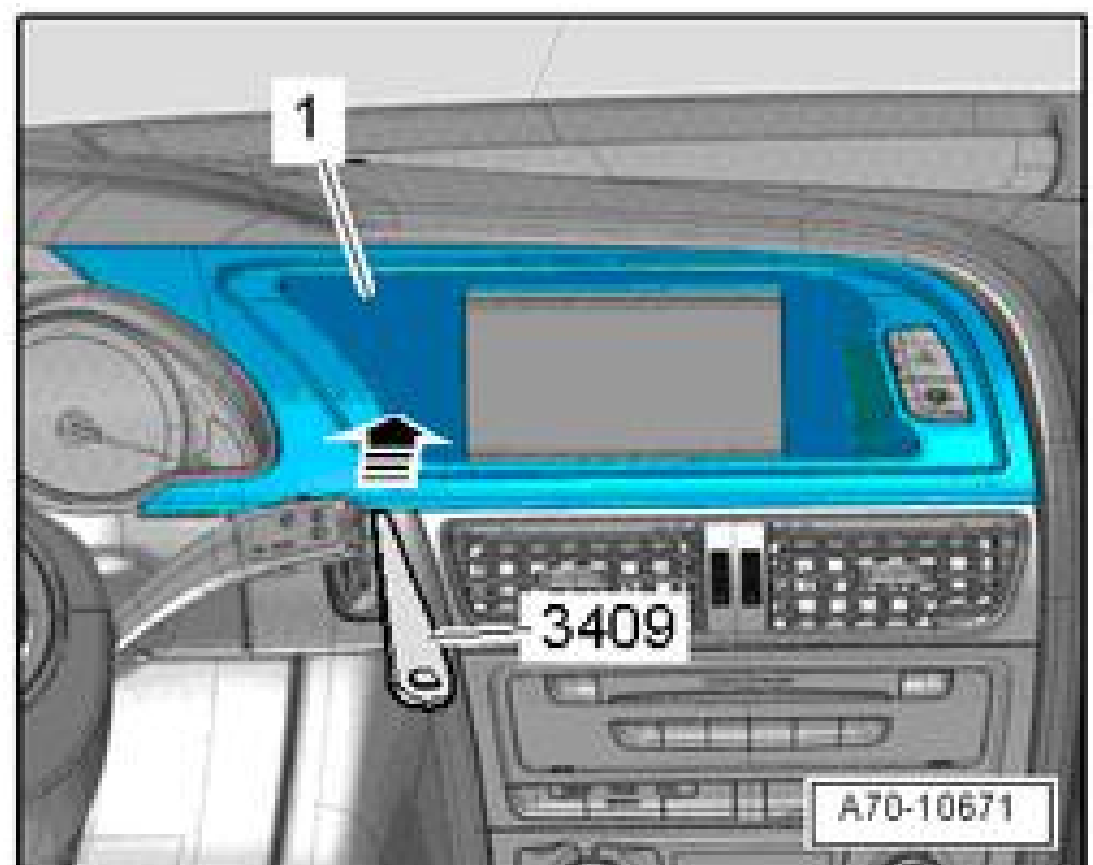
- Switch off the ignition and all electrical equipment.
- Do not switch on the vehicle while any original AUDI component is detached or disconnected.
- For Concert/Symphony radio installations:
- It is **NOT** required to remove the glove box or install a bypass connector to the CAN BUS gateway.



***To remove and install the cover for the MMI screen in vehicles up to model year 2011, follow these steps:***

**Removing:**

- Use a removal wedge to carefully pry off the cover (-1-) for the MMI screen at the corners indicated by arrows and detach it.
- Unplug the electrical connector for the warning lamp for the airbag deactivated on the front passenger side/hazard warning lights button and detach the cover.
- Check the retaining clips for damage or deformation, and replace them if necessary.



**Installing:**

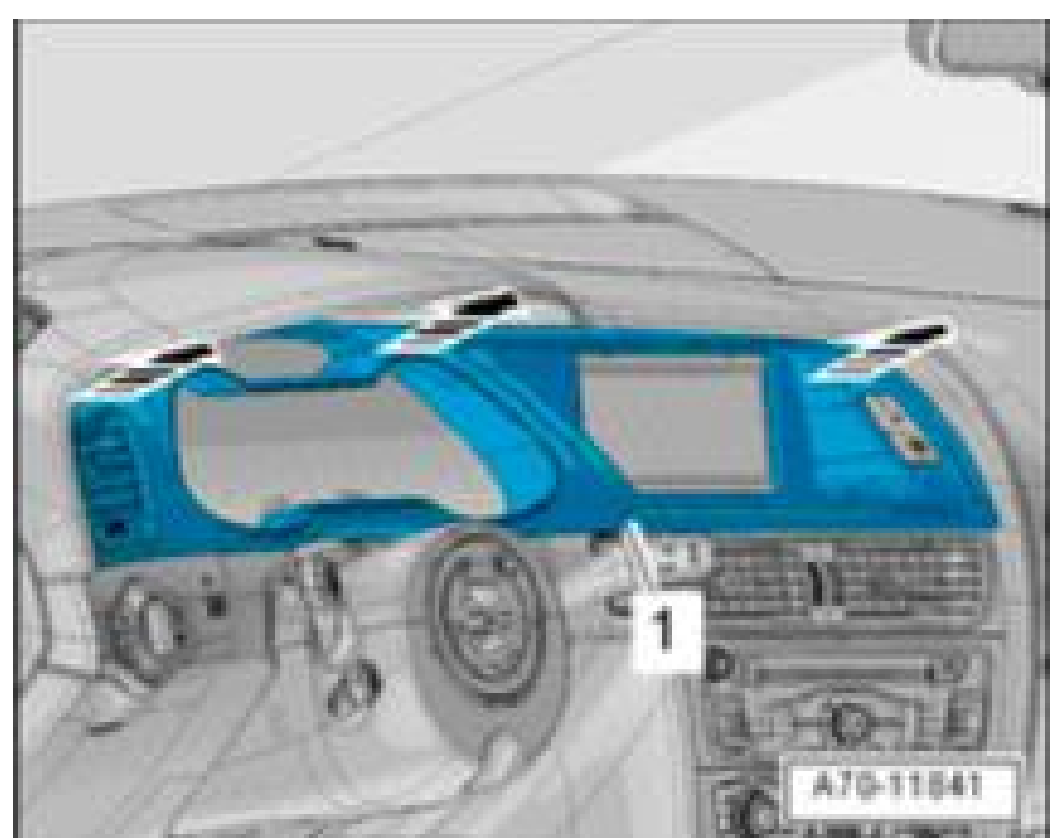
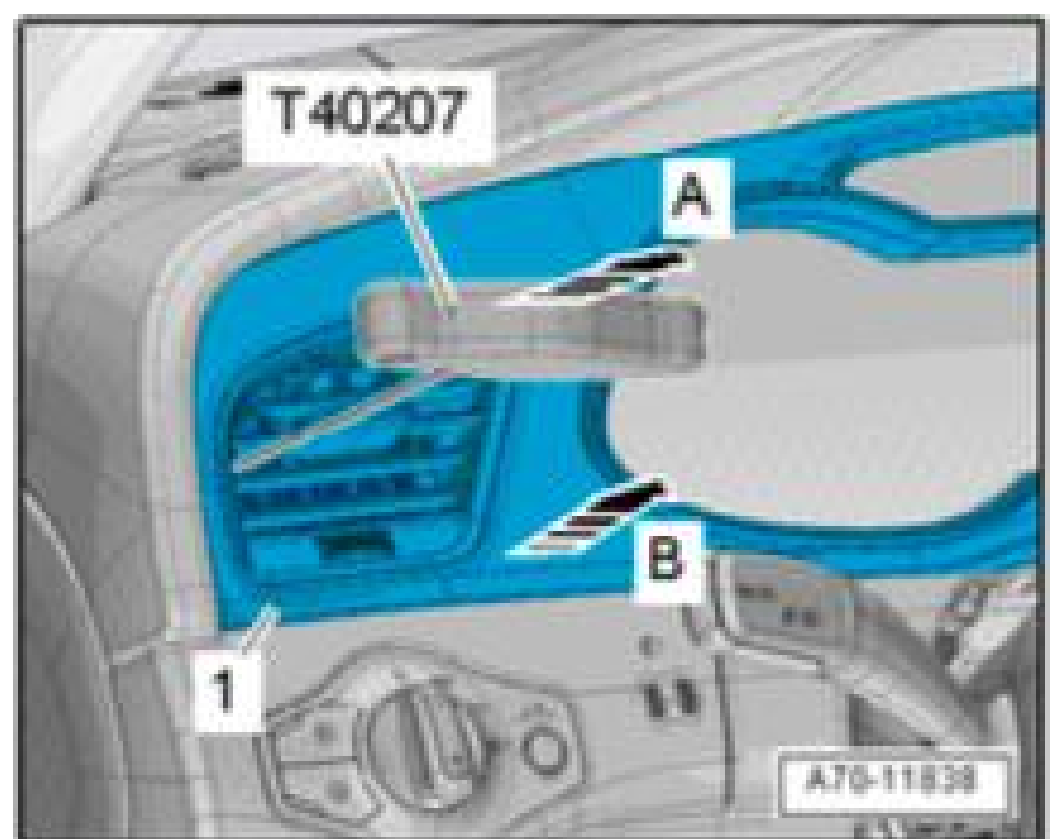
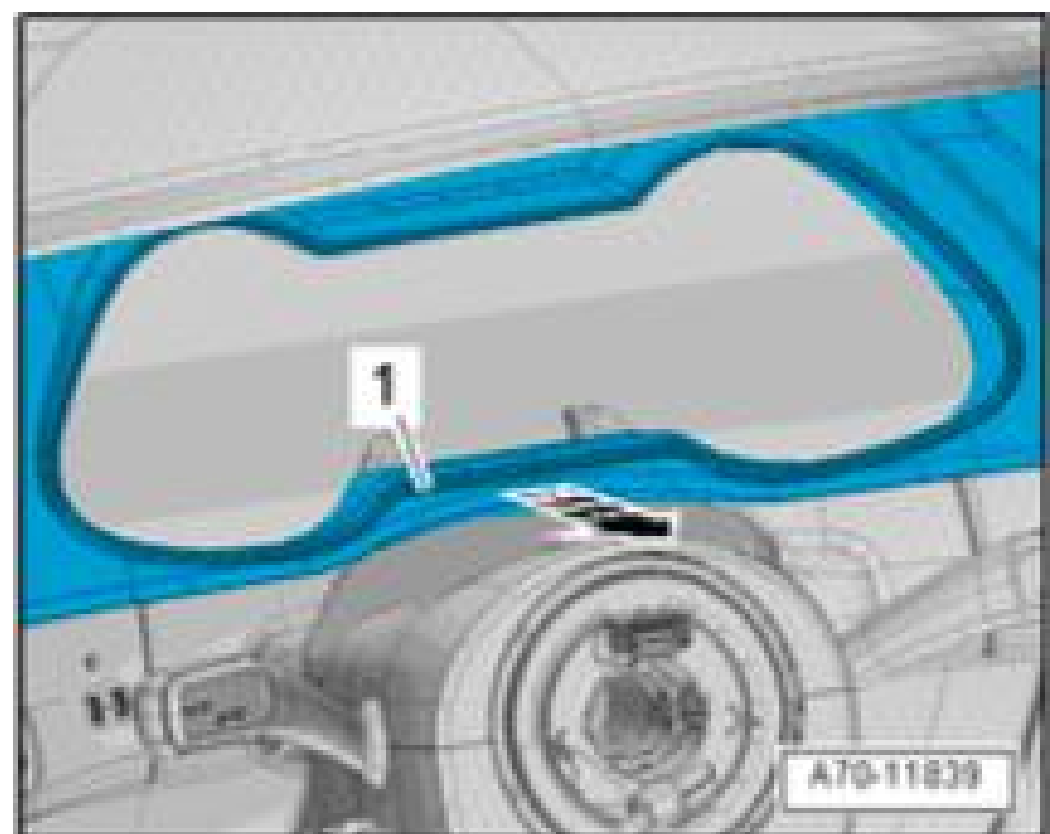
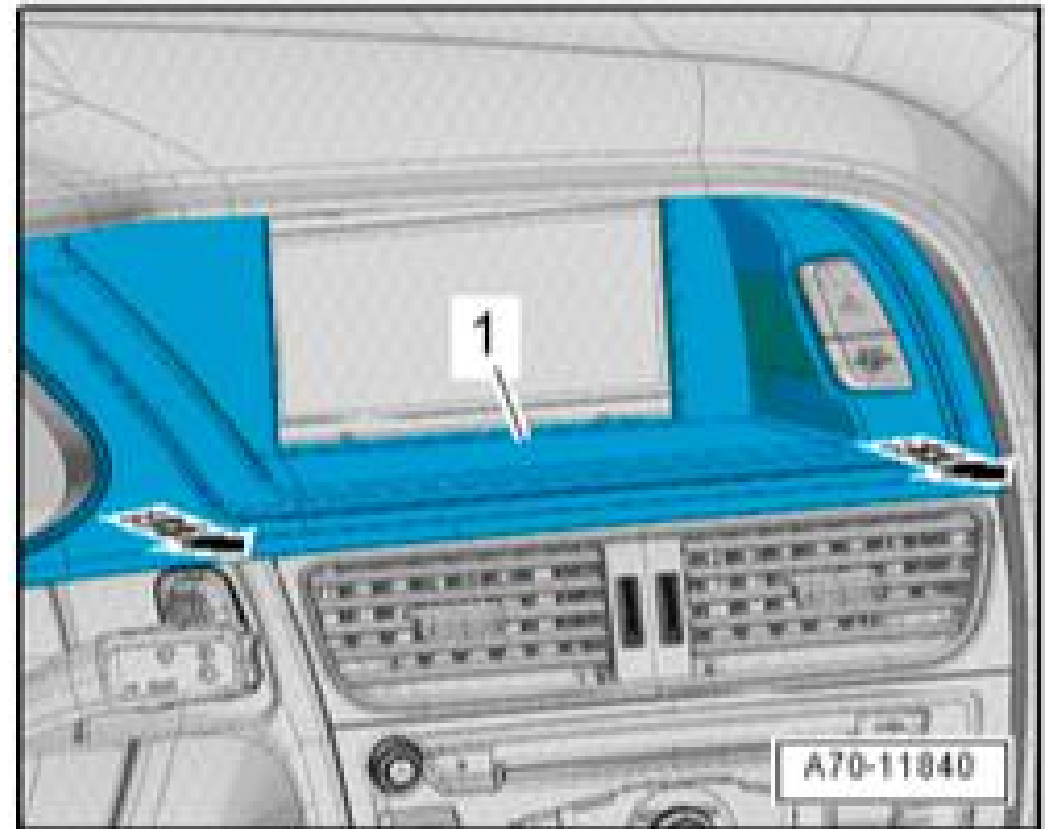
- Align the cover properly.
- Press the cover into place, ensuring all clips are securely fastened.
- By following these steps, you can safely remove and install the cover for the MMI screen in vehicles up to model year 2011.

**To remove and install the cover for the MMI screen from model year 2012 onwards, follow these steps:**

### Removing:

1. Move the steering wheel down and to the rear as far as possible using the full range of the steering column adjuster.
2. Unclip cover (-1-) for the MMI screen from the dash panel at the bottom using a wedge.
3. Carefully unclip cover (-1-) for the MMI screen from the instrument cluster at the bottom using a wedge.
4. Unclip cover (-1-) for the MMI screen from the dash panel at the bottom (arrow B) using a wedge.  
Note: A hole is provided on both sides of the vent for engaging the hook.
5. Carefully insert the hook between louvres and engage it at the side of the vent.
6. Carefully disengage the vent at the sides (arrow A).
7. Carefully unclip cover (-1-) for the MMI screen from the dash panel at the top.
8. Unplug the electrical connector at the dash panel vent.
9. Unplug the electrical connector for the warning lamp for the airbag deactivated on the front passenger side/hazard warning lights button and detach the cover for the MMI screen.

Ensure you follow these steps meticulously to safely remove the cover for the MMI screen.



## ***Guide to Removing and Installing the MMI Screen Cover in the Audi Q5***



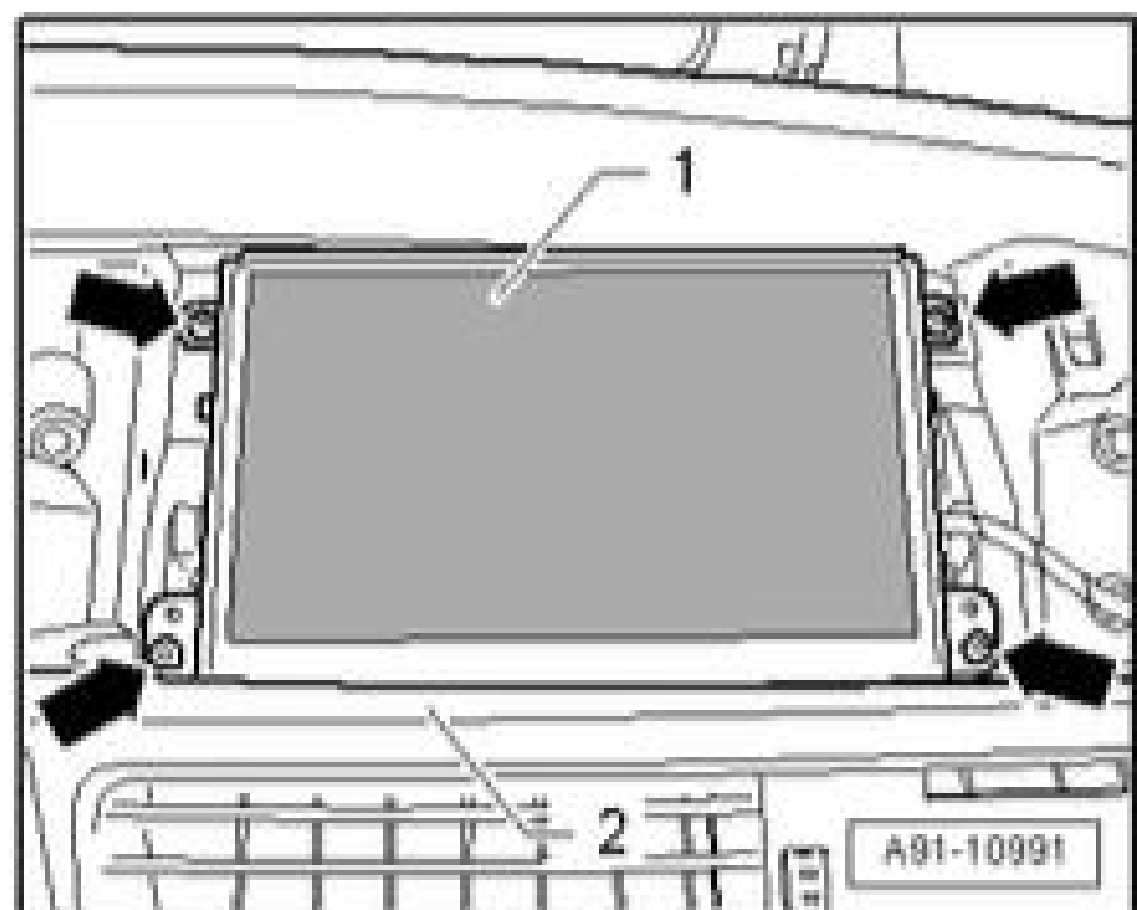
1. Pry out the screen fascia trim.



2. Unplug the emergency hazard button connector and remove the screen fascia. Also remove the factory original screen unscrewing 4 T20 screws.

### **Removing the Infotainment System Display:**

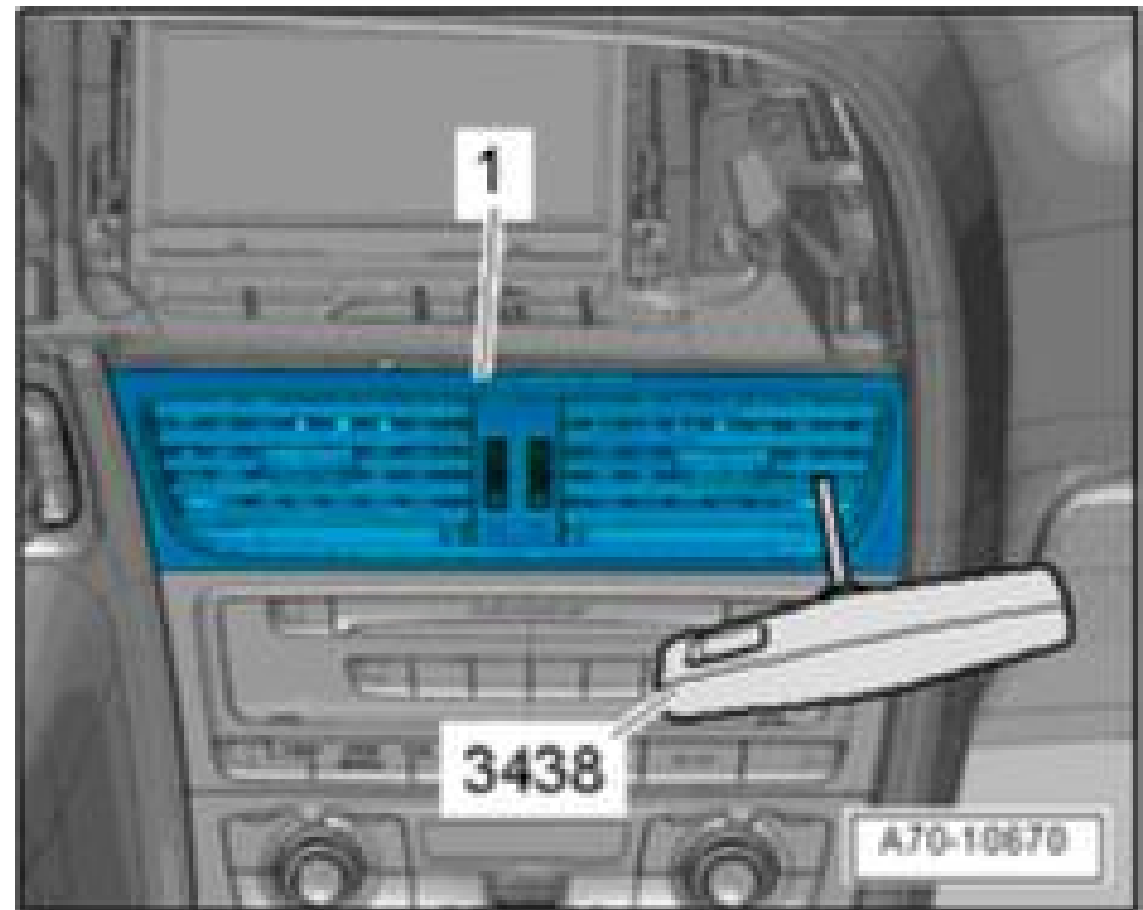
1. Remove the bolts indicated by arrows from the display unit (-1-) located in the center of the dash panel.
2. Lift the display unit (-1-) out of the dash panel (-2-).
3. Release and unplug the connectors from the display unit for the front information display and operating unit control unit.





**To remove the center dash panel vent:**

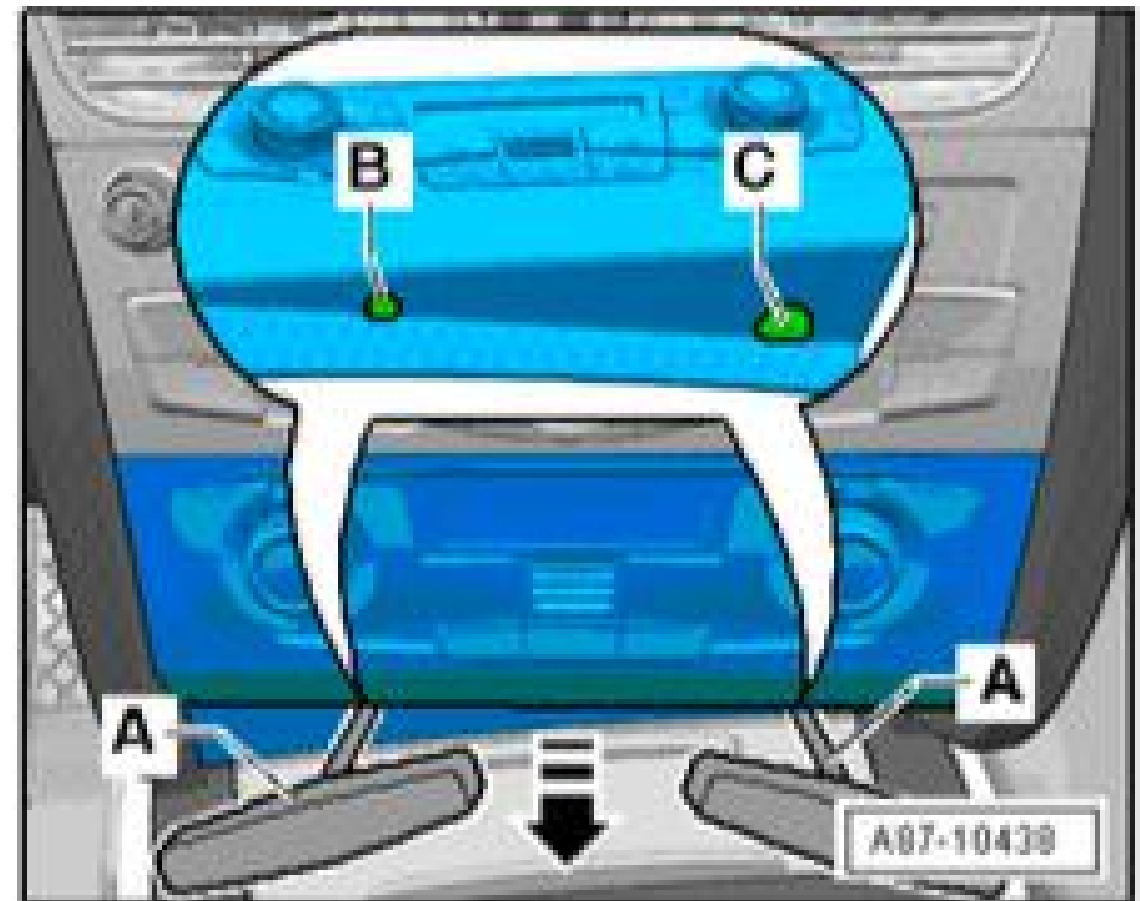
1. Take note that there are holes on both sides of the dash panel vent for hook engagement.
2. Work on each side alternatively, gently pulling the dash panel vent out of its opening using a hook.
3. If your equipment version includes a light, disconnect the electrical connector at the dash panel vent.
4. Be sure to inspect the retaining clips for any signs of damage or deformation, and replace them if necessary.
5. When inserting the dash panel vent back into the opening, ensure that the air duct fits correctly.
6. Press the dash panel vent firmly into the installation opening until it stops.





## To remove the climatization control unit:

1. Position hook -A- as illustrated in one of the openings -B- or -C- of the air conditioner operating and display unit (Climatronic control unit).
  2. Gently pull the air conditioner operating and display unit (Climatronic control unit) out of the center console in the direction indicated by the arrow.
  3. Alternatively, you can carefully pry it out using a wedge tool, inserting the wedge into the sides of the climatronic control unit. However, rushing this process might lead to breaking the support brackets.
- **Note:** The air conditioner operating and display unit (Climatronic control unit) is secured in place by clips (left and right) in the center console support brackets.



1. Disconnect the connectors from the air conditioner operating and display unit (Climatronic control unit).

## Here are the steps for removing the Concert/Symphony radio:

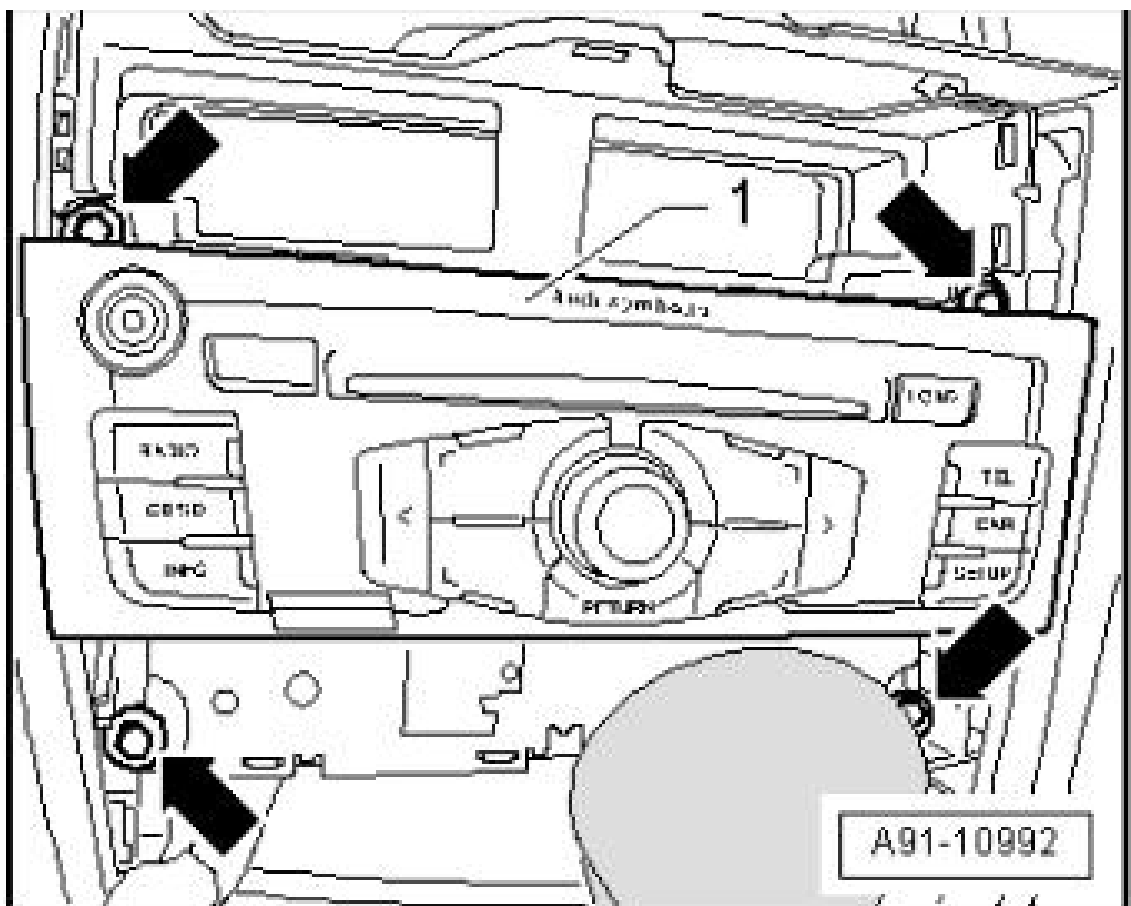
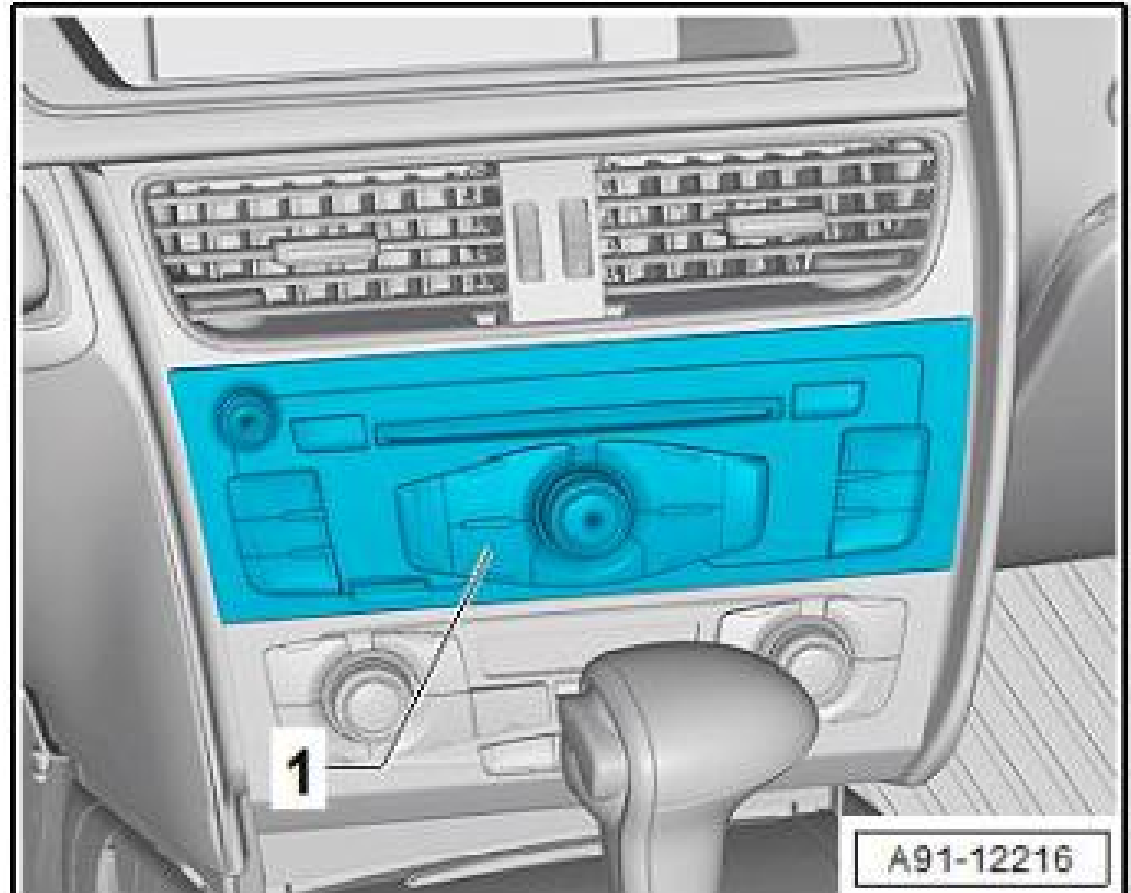
1. Shift the selector lever to the "S" position (for automatic gearbox) or move the gear lever all the way to the rear (for manual gearbox).

- Note: If the gear knob interferes during removal, turn the keys to ignition mode without pressing the brake pedal, then press the pedal to switch the gear knob to Drive, and finally turn off the key.

2. Switch off the ignition and all electrical equipment, and remove the ignition key.

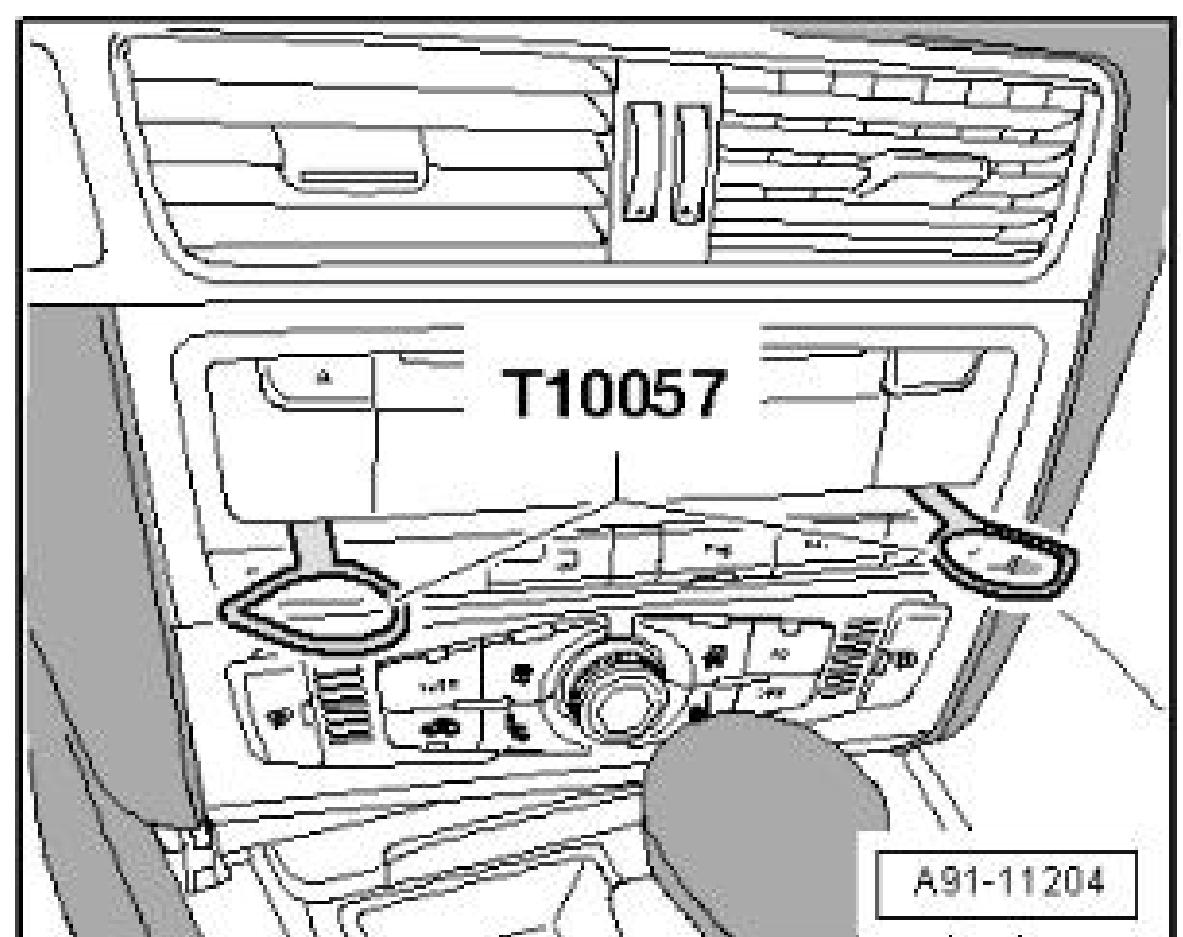
3. Removing:

- Remove the bolts indicated by the arrows at radio -R--1-.
- Pull the radio -R--1- out of the dash panel.
- Release and unplug the connectors at radio -R-.



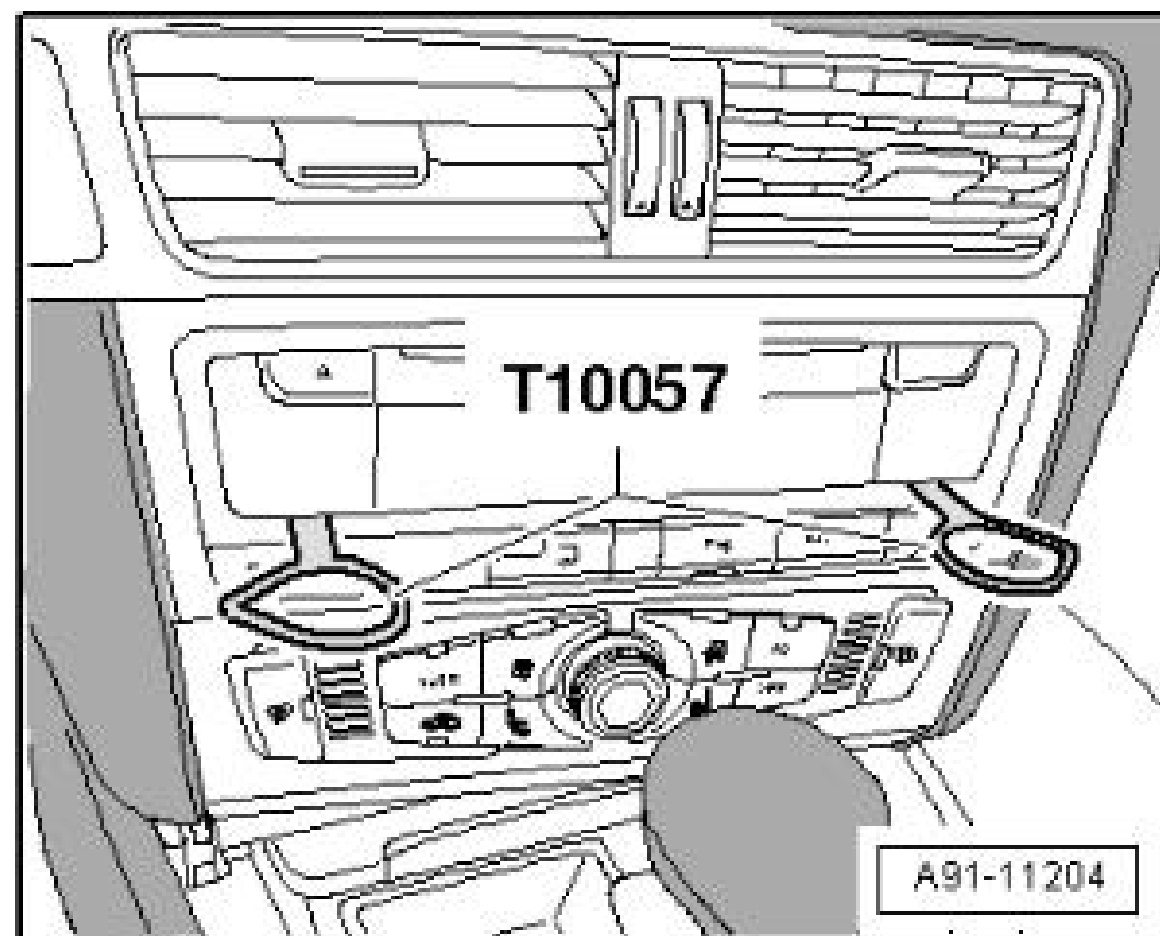
**Here are the steps for removing and installing the 3G MMI unit:**

1. Insert two VW or Audi radio removal keys for 3G MMI into the release slots on control unit 1 for information electronics until they engage. Ensure that the pointed ends of the tools' grips face outwards.
2. Pull control unit 1 for information electronics out of the mounting frame.
3. Press the release tabs on control unit 1 for information electronics and remove the VW or Audi radio removal keys.
4. Release and unplug the connectors at control unit 1 for information electronics.



**Steps for removing the AMI (Audi Music Interface) if present in your glove box:**

1. Insert two VW or Audi radio removal keys into the slots on the connection for external audio sources until they engage. Ensure that the pointed ends of the grips face outwards.
2. Pull the connection for external audio sources out of the mounting frame.
3. Release and unplug all connectors attached to the connection for external audio sources.





## Process for removing and installing the glove box:

### Removing:

1. For equipment versions with a storage box in the glove box:
  - Use a screwdriver to release the retaining hooks (left and right) indicated by the arrow and pull the storage box out of the glove box.
2. For equipment or country-specific versions:
  - Remove bolt -1- located at the top or side.
3. For country-specific versions with an impact damper:
  - Additionally, remove bolt -2-.
4. Remove the side dash panel cover on the passenger side.
5. Open the glove box lid and unscrew the bolts as indicated by the arrows.
  - **Note: The number of bolts may vary depending on the country-specific version.**
6. Detach the glove box and pull it out far enough to unplug the electrical connector at the main connector.
7. Use a trim removal tool to open the passenger side dash side cover, then unscrew the side bolt.



**To pass the main cable to the screen compartment, follow these steps:**

1. Begin by passing the main cable through the openings in the back of the radio/head unit compartment. Ensure you're holding the white main male plug of the cable.
2. Work with both arms, reaching into both the radio compartment hole and the side hole of the glove compartment simultaneously.
3. Carefully guide the cable through the openings, ensuring it is routed properly and without any twists or bends that could cause damage or interference.
4. Take your time to thread the cable through each opening, adjusting your position as needed to ensure smooth passage.
5. Once the cable is successfully passed through, ensure it is securely connected and properly routed to avoid any issues with functionality or aesthetics.



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# **General Wiring Diagram**

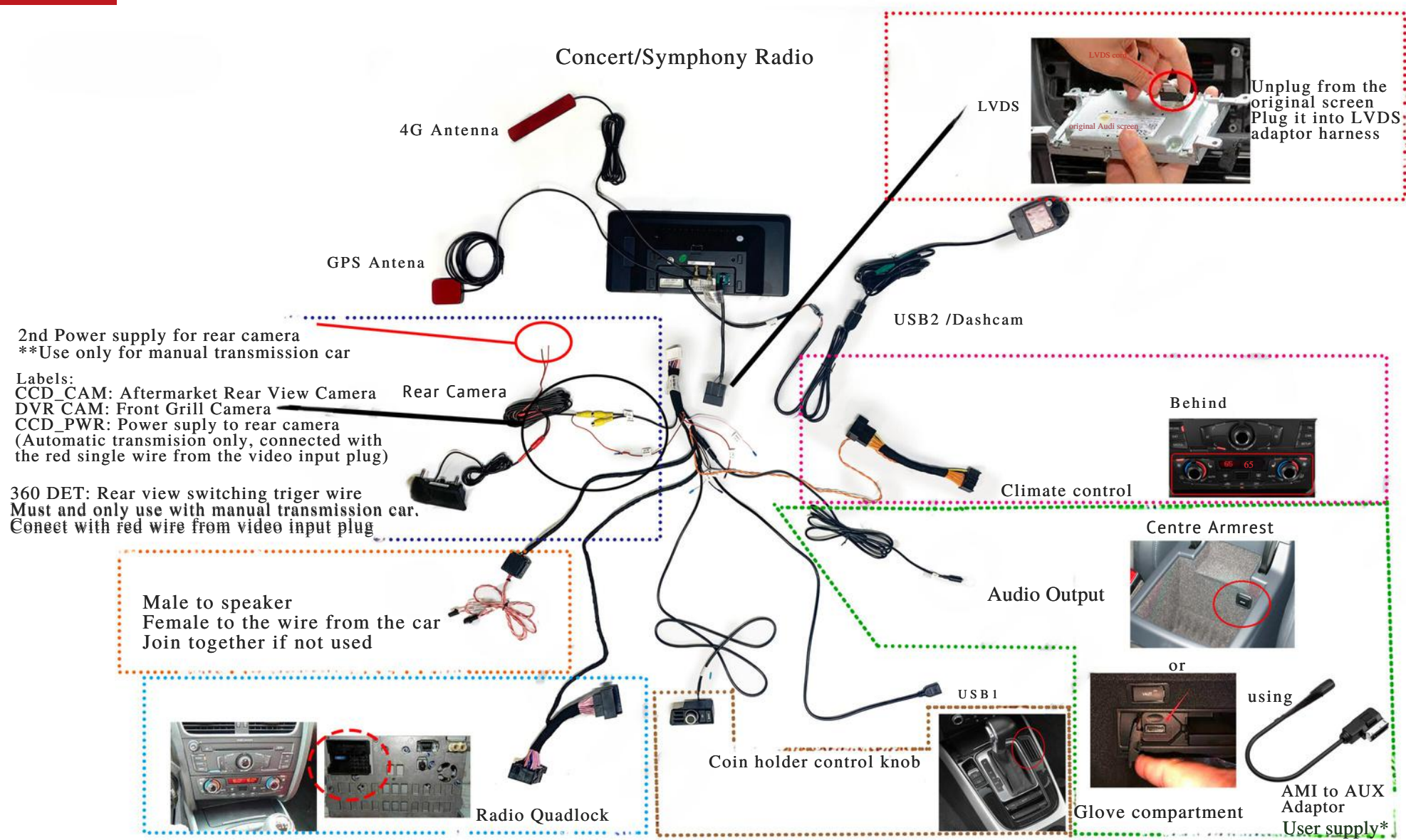
Before moving further, please  
study the wiring schematic by  
looking over the  
accompanying diagrams.



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2/10/24, 5:15 PM

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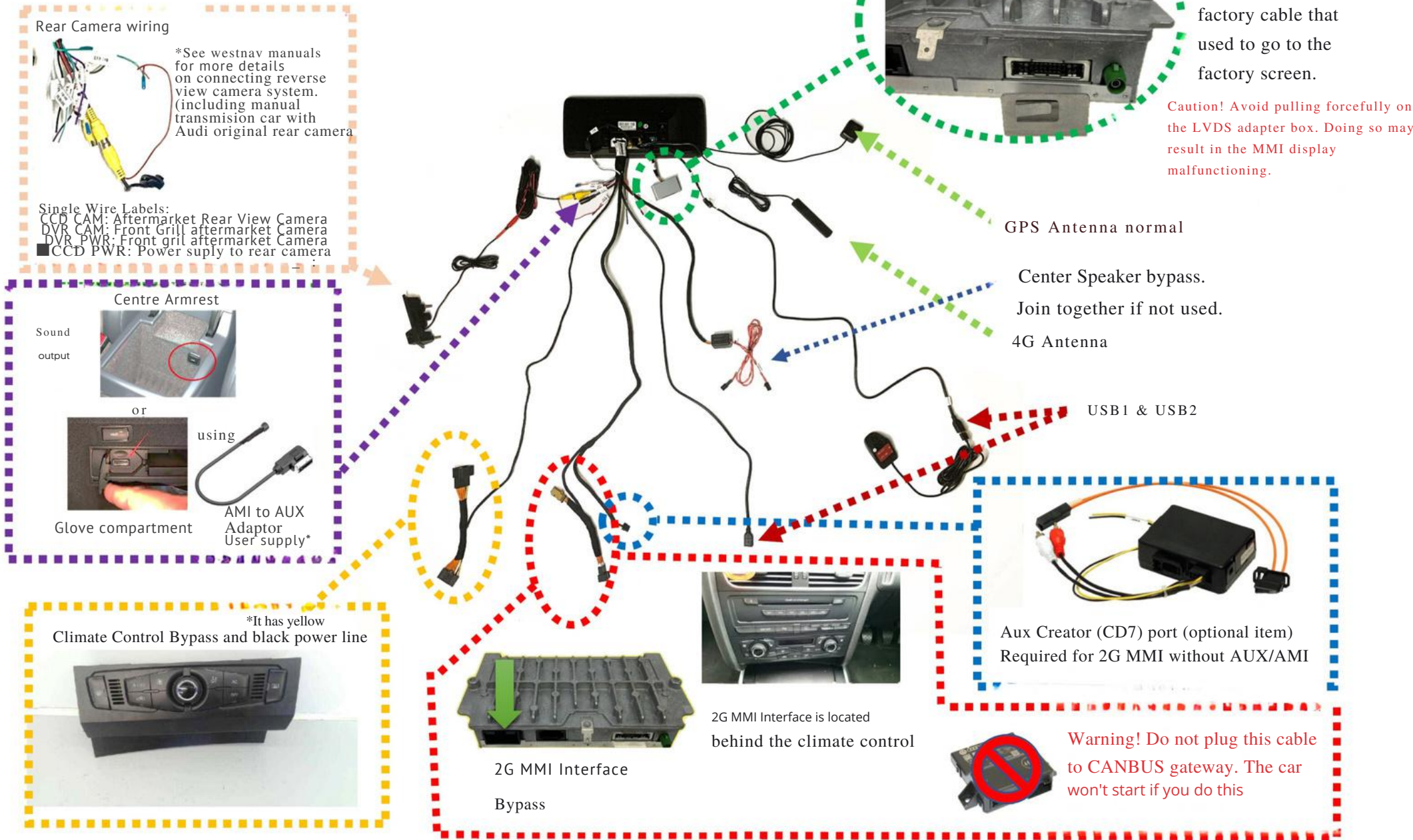




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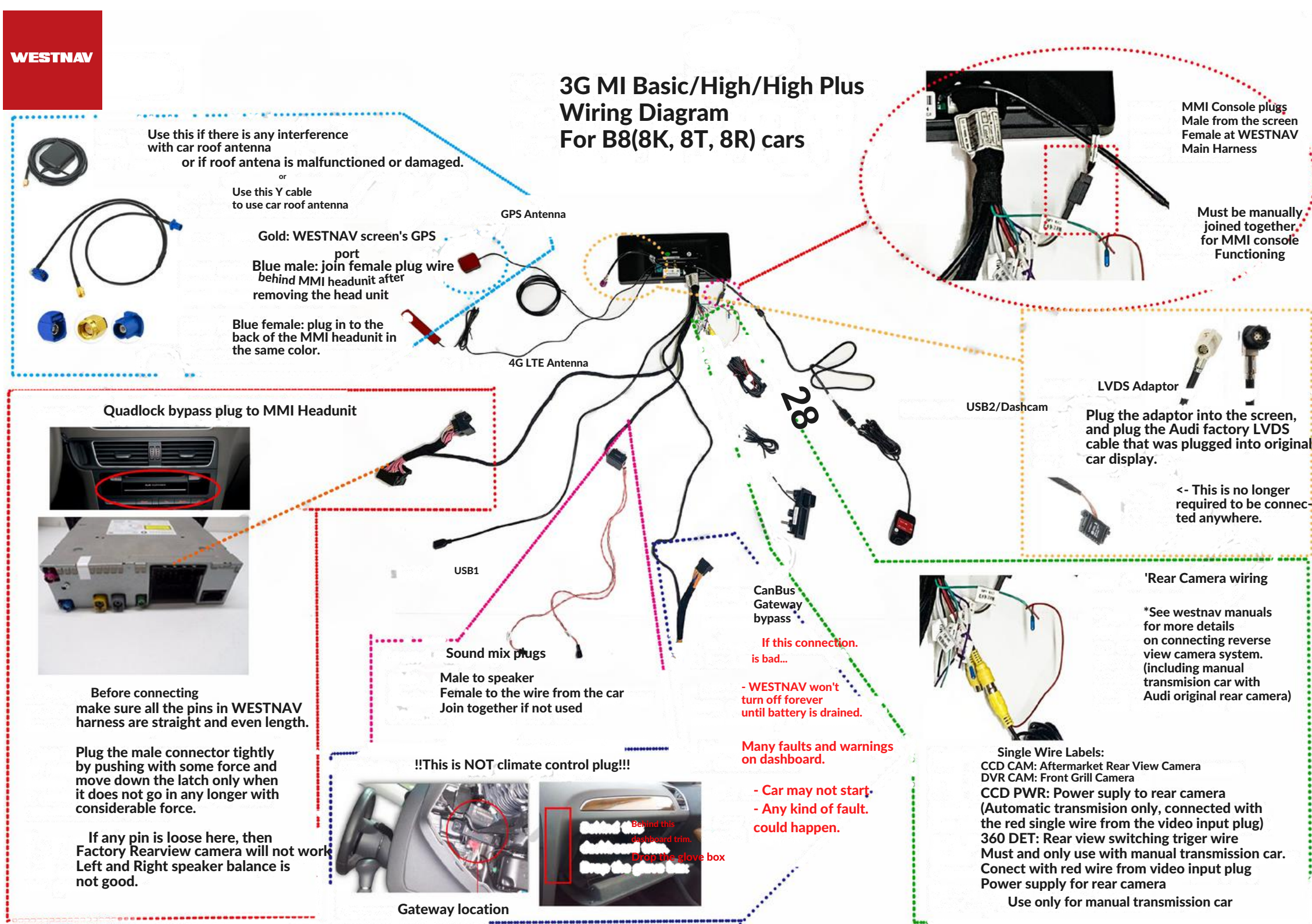
WESTNAV

## 2G mini



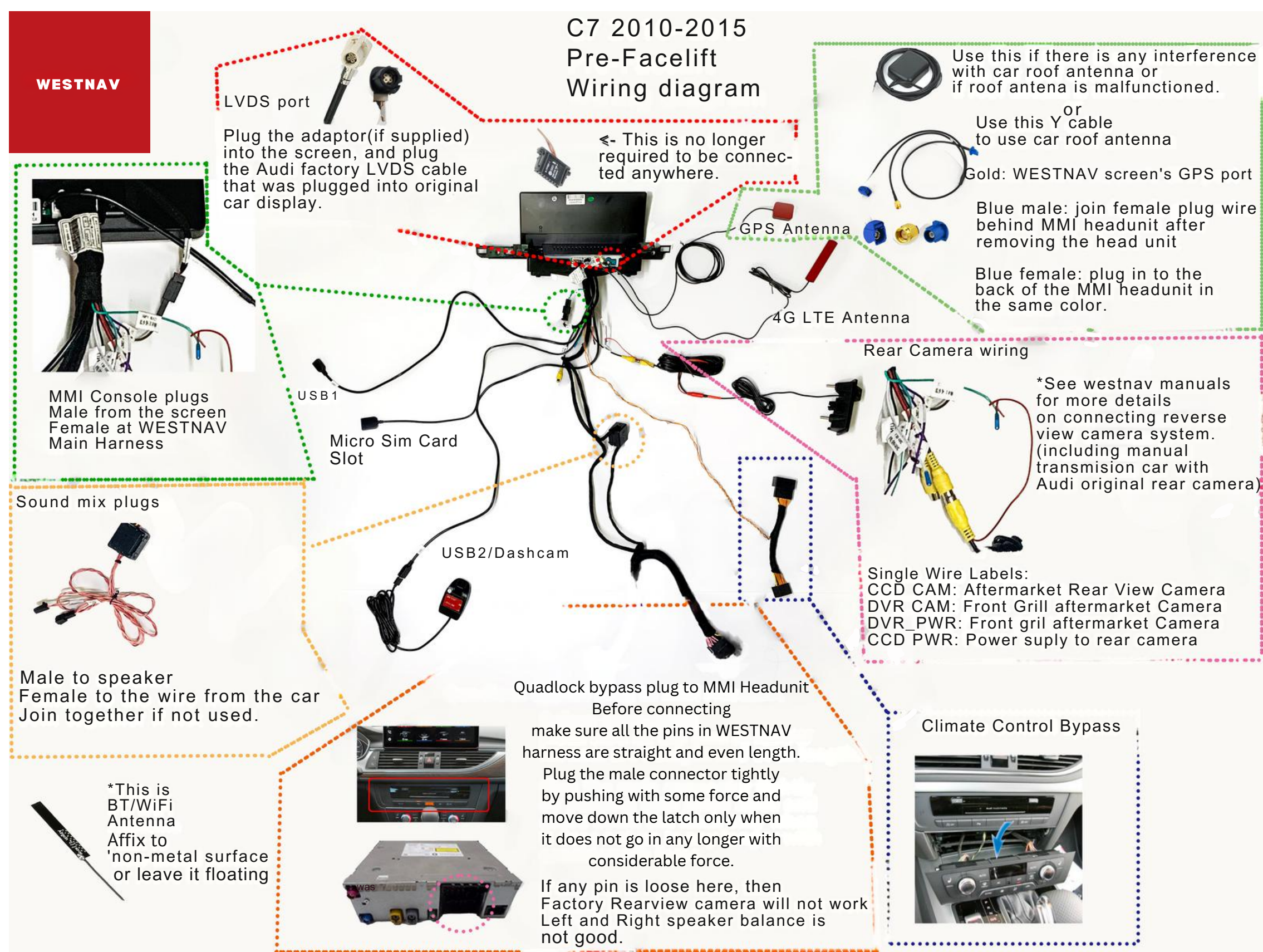


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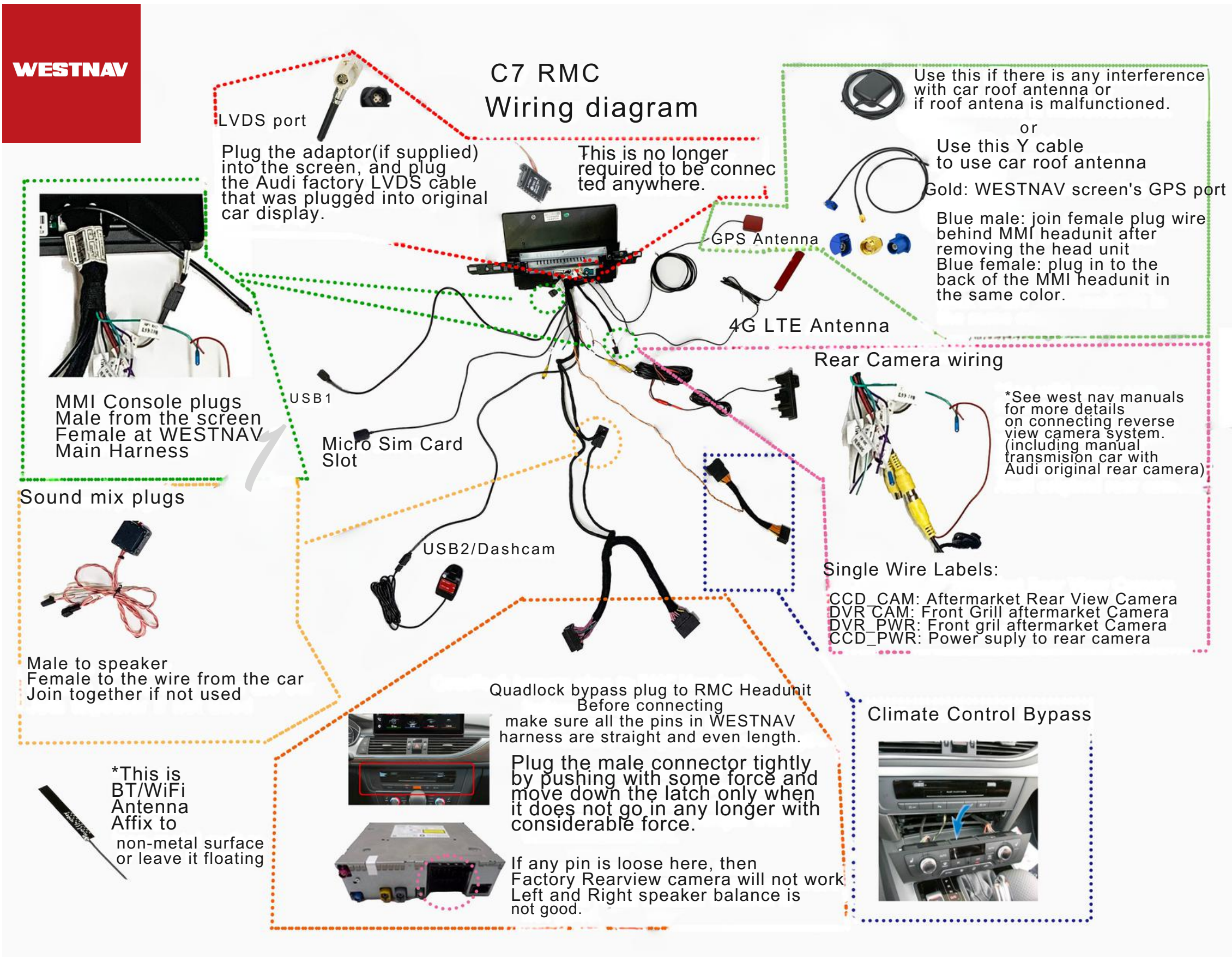


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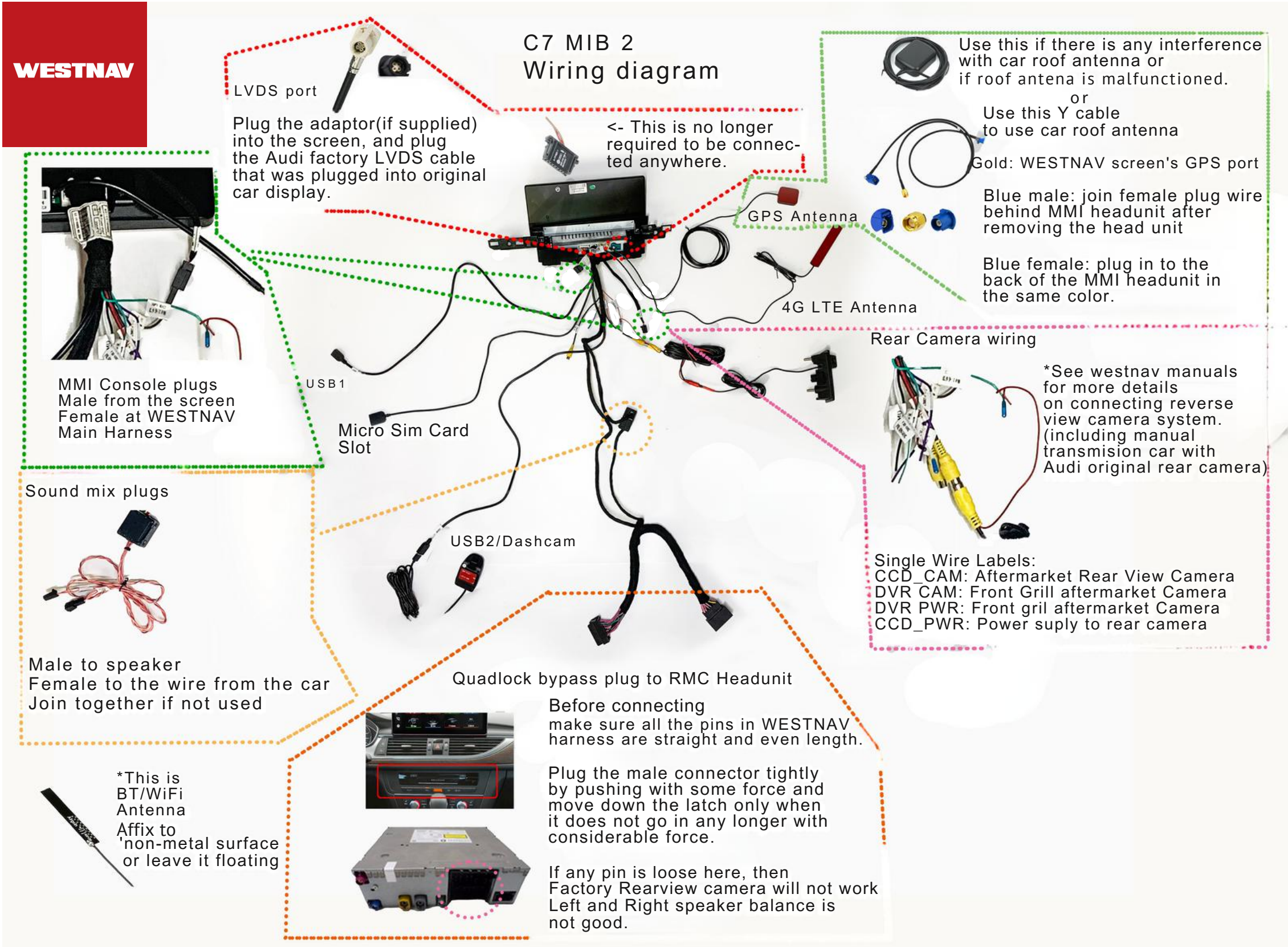


# WESTNAV





# WESTNAV





# Installation

**For the installation of the Concert/Symphony Radio unit only, follow these steps:**

1. Remove the climate control panel.
2. Unplug the far right large connector.
3. Install the T-bypass supplied with the kit.
4. It's not necessary to remove the glove box or install the bypass connector to the CAN BUS gateway.

This process will enable you to install the Concert/Symphony Radio unit without needing to remove the glove box or install the bypass connector to the CAN BUS gateway.

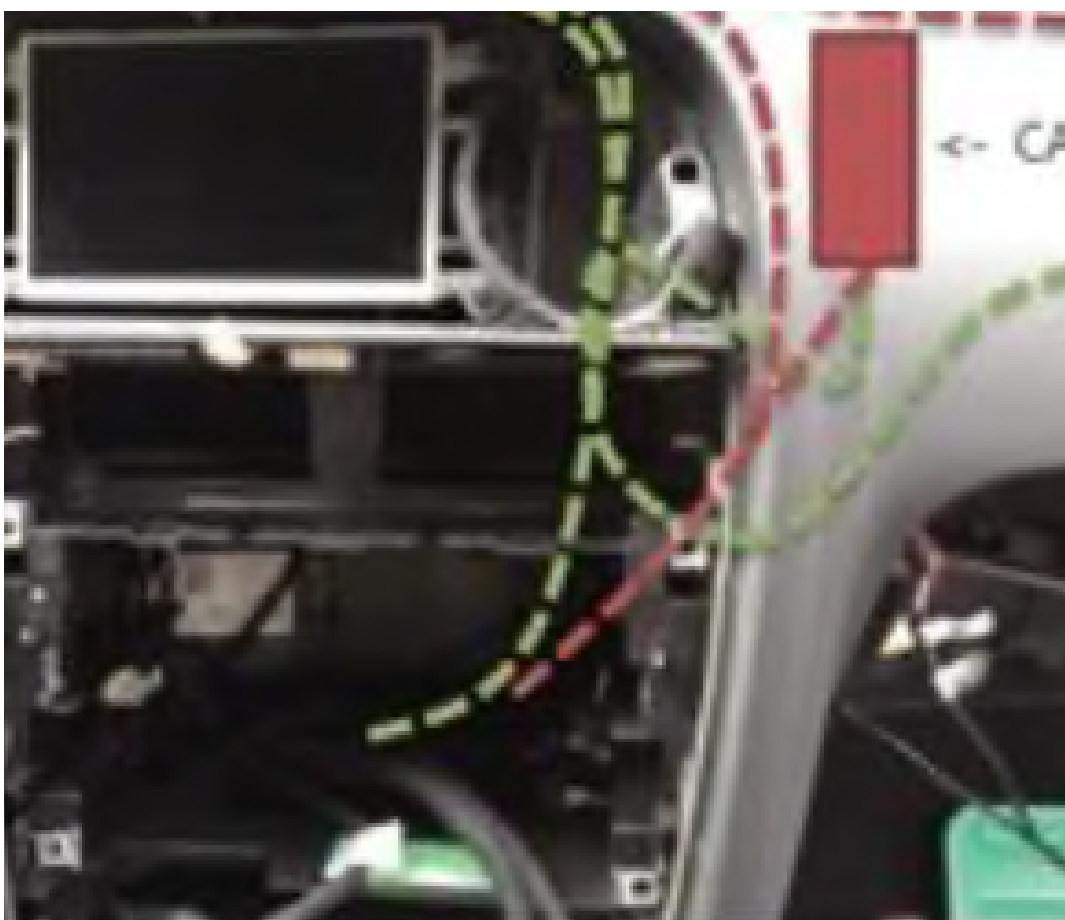


**For the installation of the 3G MMI unit only, please follow these instructions carefully:**

1. Locate the CANBUS gateway near the glove compartment and install the bypass line. **Ensure the car is turned off when disconnecting and connecting plugs into the CANBUS gateway. Avoid pressing the start button or inserting the key into the ignition while the CANBUS gateway wiring is disconnected, as this can cause electrical problems and error codes.**
2. Ensure that every pin is well connected without any pins escaping or being bent. The CANBUS gateway is a critical electronic component, and many problems can arise if it's not connected properly.
3. If you encounter error codes with a particular system (e.g., parking brake, lane assist) or if the car does not start, thoroughly inspect the CANBUS gateway bypass cable and pins. In some cases, the male pin on the CANBUS gateway receptacle may be bent or escaped due to excessive force during connector insertion.
4. Ensure that any cable route avoids the CAN BUS at all costs. Improper routing can lead to weak WIFI signals, abnormal WIFI downlink speeds, speaker noise, and other abnormalities. Follow the proper route (green) and avoid the common mistake and bad route (red) as shown in the provided diagram.

5. Join all connectors properly, ensuring tight and secure connections. For the quad-lock plug, use the lever to release/lock plugs together, and check for latches inside the female plug to ensure a tight connection. The female quad-lock plug should completely cover the male quad-lock plug, with no escape of the male quad-lock.

Following these steps meticulously will help ensure a successful installation of the 3G MMI unit without encountering electrical problems or errors.





**To properly connect the plugs for the 3G MMI console, follow these instructions:**

**1. Identify the plugs:**

- The red 4-wire male plug comes directly out of the screen.
- The two-wire female plug is on the main wiring harness.

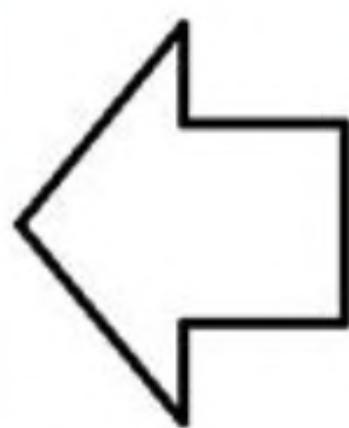
**2. Join the plugs:**

- Match the red 4-wire male plug from the screen to the corresponding two-wire female plug on the main wiring harness.
- Ensure that the plugs align correctly and securely connect.

**3. Verify the connection:**

- After joining the plugs, double-check to ensure that they are tightly connected and properly aligned.
- Test the functionality of the 3G MMI console to confirm that the plugs are successfully joined and that all features operate as expected.
- 

By following these steps, you will effectively connect the necessary plugs for the 3G MMI console installation.



**For 3G MMI devices  
This connectors must  
be manually  
connected to make  
sure MMI console to  
work properly.**



## Seps for installing the Center Speaker Bypass and routing the USB Cable port:

1. Remove the Center Dash Speaker Trim:
  - Use a trim removal wedge to carefully pry off the center dash speaker trim.
2. Unscrew the Center Speaker Holding Screws:
  - Once the trim is removed, locate and unscrew the screws holding the center speaker in place.
3. Install the Speaker Bypass:
  - Connect the speaker bypass stemming from the main harness to bypass the center speaker.
  - Ensure the connections are secure and properly seated.
4. Route the USB Port:
  - Decide on the desired location for the USB port.
  - *Option 1:* Route the USB port into the glove box compartment:
    - Open a hole in the glove box compartment using a drill.
    - Thread the USB cable through the hole and into the glove box compartment.
  - *Option 2:* Let out the USB port on the passenger side left foot wall:
    - Probe into trim gaps on the passenger side left foot wall to find a suitable location.
    - Once identified, carefully create an opening for the USB port.
    - Thread the USB cable through the opening.
5. Secure and Test:
  - Ensure that all connections are securely fastened and that the USB port is properly routed.
  - Test the functionality of the USB port to ensure it is working correctly.





**To install GPS and Cellular antennas near the rear-view mirror, follow these steps:**

**1. *Determine Preferred Location:***

- Aim for a spot near the rear-view mirror for both antennas.
- This location is often optimal for signal reception, but results may vary based on the vehicle's construction and other factors.

**2. *Prepare GPS and Cellular Antennas:***

- Ensure both antennas are ready for installation and have appropriate mounting hardware if necessary.

**3. *Use Signal Checking Tools:***

- Download GPS testing apps and mobile signal checking tools from the Google Play Store.
- GPS Test Plus and similar apps help determine GPS signal strength and satellite lock.
- Mobile signal checking tools assess cellular signal strength in different areas of the vehicle.

**4. *Test Different Locations:***

- With the tools installed on your mobile device, experiment with various positions and angles for the antennas near the rear-view mirror.
- Start with the preferred location, then adjust slightly to find the best signal reception.
- Pay attention to signal strength and quality as indicated by the testing tools.

### 5. **Evaluate Results:**

- Assess signal reception at each tested location.
- Consider factors such as signal strength, stability, and any interference issues.
- Choose the location and angle that provide the strongest and most consistent signals for both GPS and cellular reception.

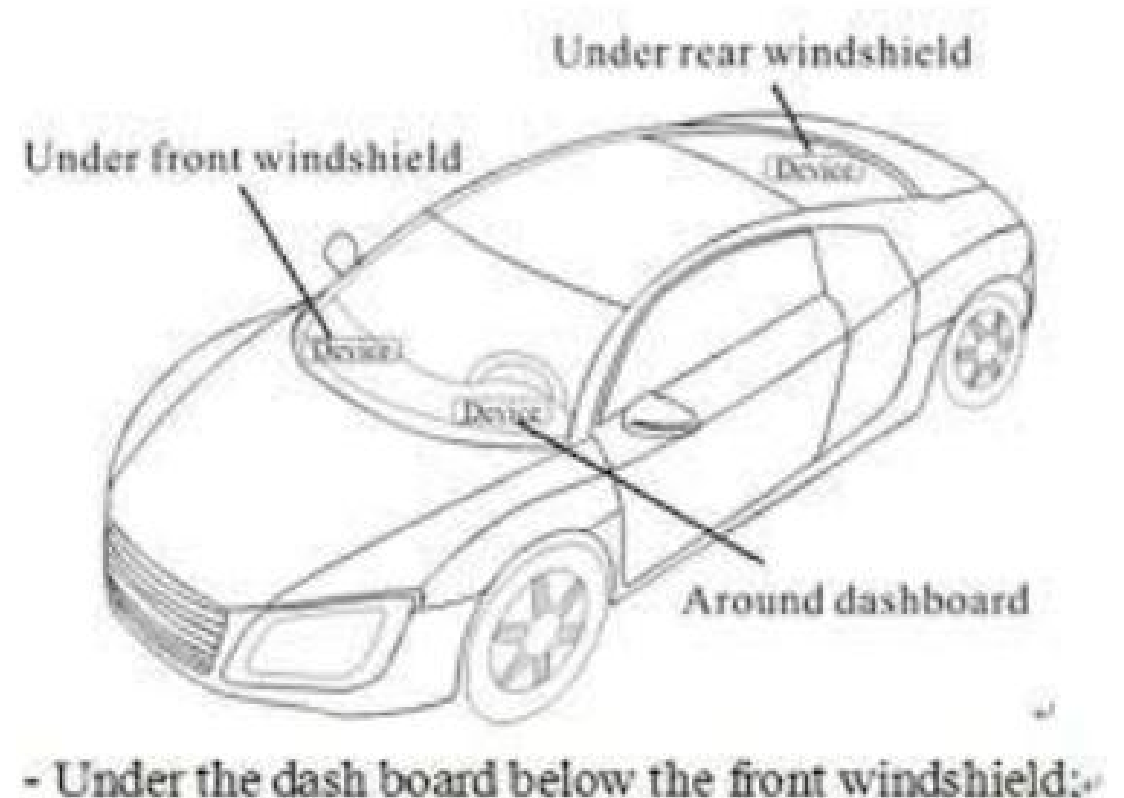
### 6. **Secure Antennas:**

- Once you've determined the optimal positions, securely mount the GPS and Cellular antennas near the rear-view mirror.
- Follow manufacturer instructions for proper installation and ensure the antennas are firmly attached.

### 7. **Test Reception Again:**

- After installation, retest signal reception using the GPS and mobile signal checking tools to confirm satisfactory performance.

By following these steps and using signal checking tools, you can find the best location and angle for installing GPS and Cellular antennas near the rear-view mirror of your vehicle.



To pass the antenna wires to the windshield, you need to remove the A-pillar trim.



**WARNING:** Behind this trim, there is a curtain airbag that may deploy if mishandled. Please follow these safety precautions:

- Turn on the ignition.
- With the ignition on, disconnect the battery earth wire.
- Before handling pyrotechnic components and restraint systems (such as unplugging electrical connectors), discharge static electricity by briefly touching the door striker plate or a similar surface.

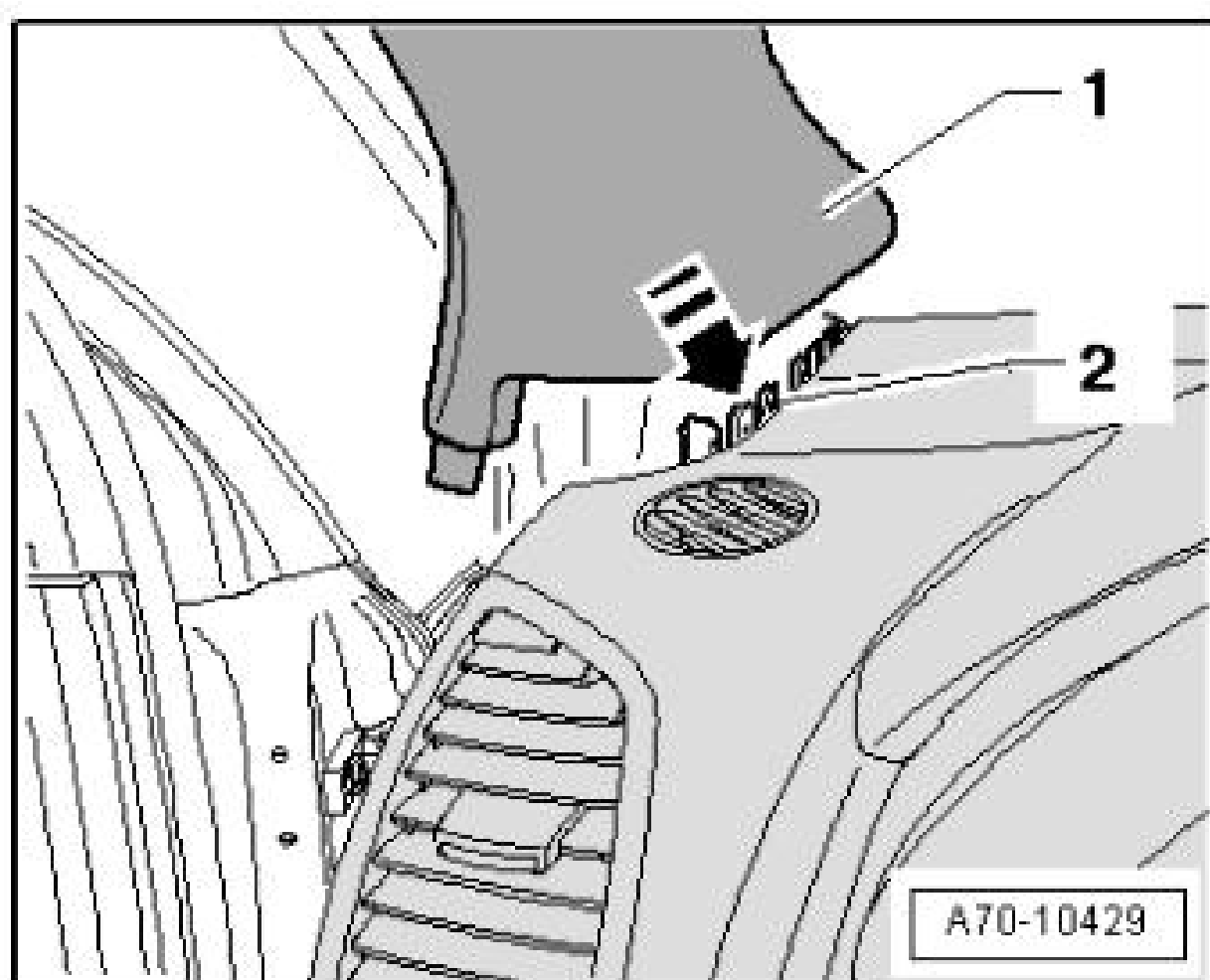
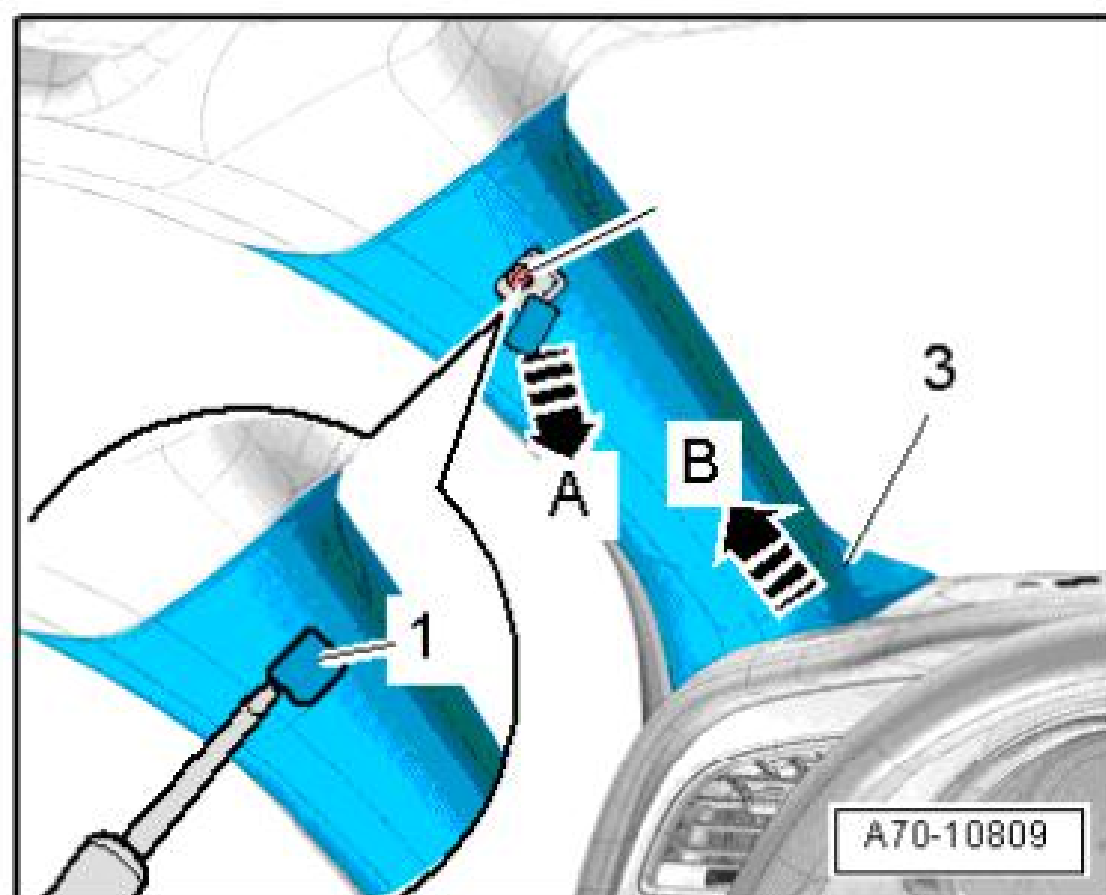


**WARNING:** Follow safety regulations for pyrotechnic components.

Instructions for removing the A-pillar trim:

- Use a screwdriver to carefully unclip the cap (-1-) marked with the "airbag" symbol from the top of the A-pillar trim.
- Beginning at the top, carefully unclip the A-pillar trim (-3-) using a removal wedge (-3409-) at arrow A.
- Pull the A-pillar trim (top) out of the dash panel at arrow B and detach it.
- Take care not to trap the curtain airbag when fitting the A-pillar trim (top).

For installation, reverse the process.







Installation is carried out in the reverse order. Please note the following steps

1. If there are still trim clips in the body mounting points, they must be removed and inserted into the trim when installing.
2. Check the clips for damage or deformation, and replace them if necessary.
3. Use a thread tap to remove any residual locking fluid from the threaded hole for the bolt for the A-pillar trim (top). Failure to clean the threaded hole may result in the new bolt seizing when being screwed in and possibly shearing off during removal.
4. Insert the A-pillar trim (top) (-1-) into the mounting (-2-) of the dash panel and sill panel trim (front) in the direction of the arrow.
5. Clip in the A-pillar trim (top) and fold over the lip of the door seal.



**NOTE:** You don't need to remove the A-pillar trim or roof lining to pass wires. Simply pull down the lining with a bit of force and squeeze in the antenna wires.

# Switching on the External Audio Input



**If these steps are not followed, the device will not produce any sound.**

## Please Note:

1. The Audi AMI to Aux Adaptor is not included in the installation kit. You must purchase it separately from an Audi dealer or online retailers such as Amazon or eBay.
2. iPod 30-pin, USB, Lightning Connector, and Bluetooth dongle type AMI adaptors are NOT equivalent to the Audi AMI to AUX adaptor.

## Procedure 1.

If you have the AMI to AUX adaptor, plug it into the MMI/AMI plug to activate the external audio source in the Media tab of your MMI.

Plug this side into your AMI Port in the center armrest.

Do not plug this side into anything.

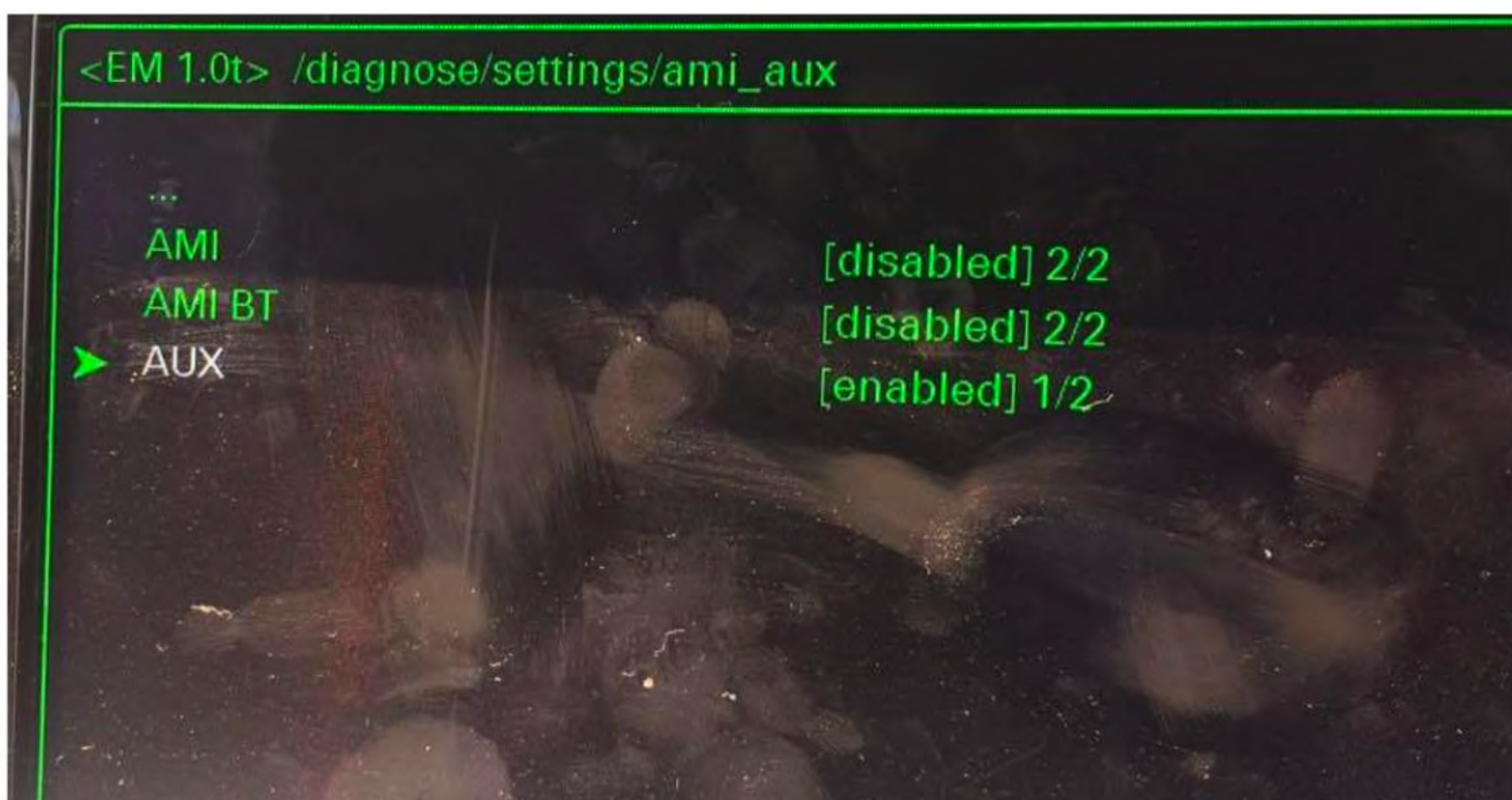


## Procedure 2.

***For 3G MMI systems only, code the system using Vag Com (or OBD Eleven).***

To enable the Aux input in MMI, follow these steps:

1. Preparation: Enable the Green menu using VAGCOM or OBD Eleven.
2. Connect with module 5F - Control Head.
3. Choose the procedure 10 - Adaptation.
4. Select prerequisite Channel 6.
5. Read the stored value. By default, it should be 0.
6. Change the value to 1 and save it.
7. Read the stored value again. It should now be 1.
8. Exit the menu.



To activate the AUX function in the Audi MMI 3G system, follow these steps:

1. Turn the key to the II position and wait for the MMI 3G system to start, or use the keyless buttons.
2. Press and hold the MENU (or SETUP) and CAR buttons simultaneously.
3. After a few seconds, a hidden green menu will appear. Release the buttons.
4. Navigate to Diagnos - Settings - AMI/AUX.
5. Change the value of "AUX" from "disabled" to "enabled" while preserving other options.
6. Press the RETURN and CAR buttons simultaneously to exit the hidden green menu.
7. Restart the MMI system.

**Here are specific installation tips and tricks for installing an 8.8-inch screen in a sedan:**

**1. Mounting the Metal Plate:**

- Install the metal plate to the position of the original LCD screen.
- Note that the screw tabs have wide holes to allow the installer to mount the new screen precisely.
- Do not screw tight until you confirm the fitment of the LCD screen with the provided housing.

**2. Adjusting Screw Tabs if Necessary:**

- If needed, trim down the screw tabs and widen the screw holes to ensure proper fitment.
- This adjustment allows for mounting the screen further left if required.

**3. Screwing the Main Device:**

- Once the position is correct, screw the main device to the two upper screw tabs securely.

**4. Connecting the New Hazard Flasher:**

- Use the provided hazard flasher extension to connect the new hazard flasher.
- Ensure the connection is secure to prevent any issues with the hazard lights.

**5. Reusing Original Components:**

- Reuse every metal clip, rubber O-ring, and rubber stopper from the original LCD trim.
- These components help ensure a secure and stable installation of the new screen.

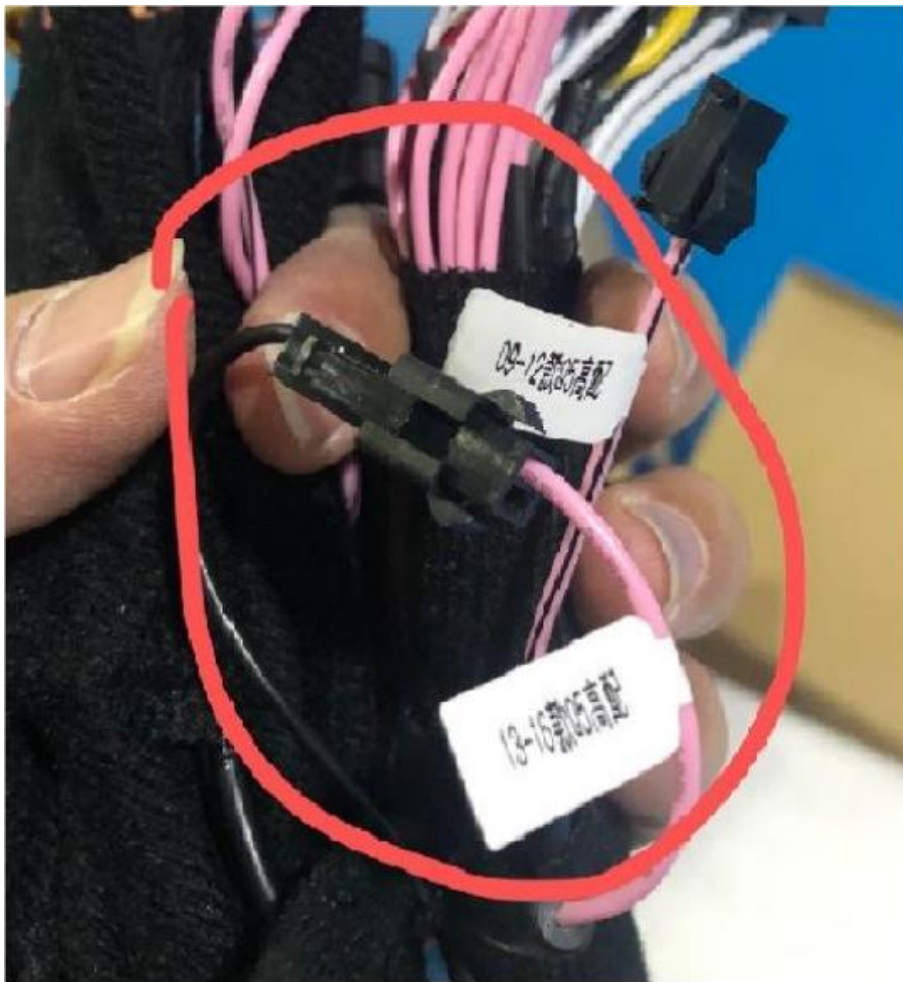
By following these tips and tricks, you can successfully install the 8.8-inch screen in your sedan, ensuring proper fitment and functionality while reusing original components where necessary.



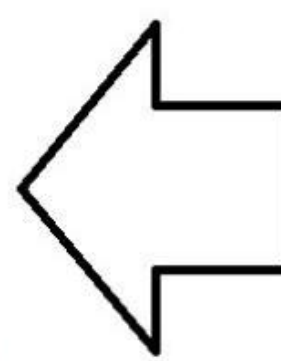


PCB with BL is for  
Pass. Airbag Off  
indicator equipped  
vehicle (e.g. the US)





For 8.8" 3G MMI model there are single wire plugs tabbed with label saying 09-12 or 13-15, choose right one for your car model(Preface lift or facelift). This one is for automatic aux switching.



For 3G MMI devices This connectors must be manually connected to make sure MMI console to work properly.

## Mounting instructions for 10.25 and 12.3-inch screens, including the information about the connectors:

### 1. Secure Installation (Optional):

- Use a cutting tool to empty out the LCD fascia of the original LCD frame and remove the original hazard flasher for a secure installation. Partially screwing down to preserve OEM plastic is possible but not recommended.

### 2. Mounting the Metal Plate:

- Install the metal plate to the position of the original LCD screen.
- Note that the screw taps in the four edges have wide holes for precise mounting of the new screen. Do not screw tight until confirming fitment with the provided housing.

### 3. Securing the Plastic Supporting Frame:

- If the position is correct, screw down the plastic supporting frame with four screws to ensure stability and alignment.

### 4. Passing Wires Through Holes:

- Identify which wires should pass through each hole provided and organize them accordingly for a clean installation.

### 5. Connecting the New Hazard Flasher:

- Use the provided hazard flasher extension to connect the new hazard flasher securely.

### 6. Mounting the Head Unit:

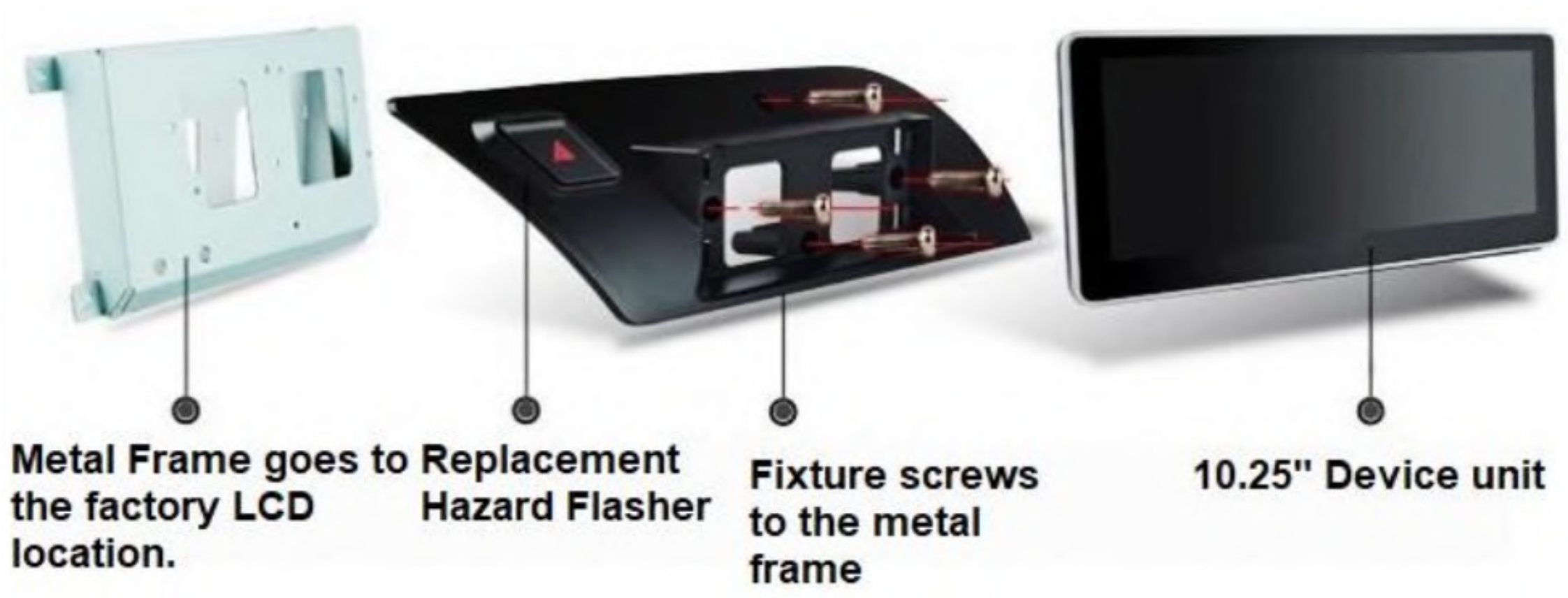
- Slide the head unit into the guide rails and open the screw covers on the backside of the main head unit (tablet).
- Screw down two large screws to fasten the tablet permanently for the 10.25" device.

### 7. Connectors for the 10.25" Unit:

- 28 pin white main plug for various wires including power.
- Gold plated antenna connector for the mobile modem.
- Gold plated antenna connector for GPS.
- Audi original display signal (LVDS) input port.
- Use the conversion extension included in the package for the LVDS input port, depending on your original infotainment type.
- Verify the plug direction for the 10-pin LVDS cable. If the original Audi screen scrambles, you may have connected the original 10-pin male plug upside down.
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By following these instructions, you can effectively mount the 10.25 and 12.3-inch screens, ensuring a secure installation while properly connecting the various components and connectors.







*In some model, e.g. 10.25", the connection is made through included conversion extension.*

*or*



*For 3G MMI, 8pin black connector (power supply) is no longer used.*

