# Audi Navigation Plus Installation – Phase 1 (A6/S6/RS6/allroad)

For Symphony I Head units (model year 1999.5 to 2001):

GPS installation

1.

TMC/CAN installation and wiring to instrument cluster

For Symphony II Head units (model year 2002 – 2004):

- GPS installation
- Taping into the speed sensor, illumination and Ignition Power Sources from instrument cluster
- TMC/CAN installation (wiring will come in Phase II)

Pictures: 1a – 1n

#### Nav Plus - components and installation stuff



### 1b. Nav Plus Installation – Phase 1 (1999.5-2001 A6/S6/allroad – Symphony I) (Homemade TMC/CAN Gateway harness)



*Please Note: In a Symphony I head unit, it will be necessary to use a harness like this one to access the CAN H/L functions from the instrument cluster. In a Symphony II, you can access the CAN H and CAN L from the 20 pin connector, pin 7 and 12, respectively.* 

### Nav Plus Installation – Phase 1 (Removing the Instrument Cluster – 2003 A6 pictured)



Please Note: I highly recommend protecting your steering wheel and column by putting down blue painters' tape. The two bottom screws of the instrument cluster can dig into your steering wheel column as you are removing it.

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### Nav Plus Installation – Phase 1 (Removing the Instrument Cluster)



1**d**.

Remove these two philips head screws. FYI -They are on tight, so make sure you have the correct size Phillips head; you don't want to strip that screw head. ©

Cluster will come out like this. Use a flathead screwdriver to rotate-up the purple tab on the blue connector first. Do same for grey and green connectors, in that order. Install in reverse order.





your steering column make sure to cover it with blue painters' tape.



With the cluster out, you should see the blue, grey and green Instrument cluster connectors.



With the cluster out, you should see the blue, grey and green Instrument cluster connectors.

1e. Nav Plus Installation – Phase 1 (1999.5-2001 A6/S6/allroad – Symphony I) (Adding two pins/wires to grey connector)



Slide purple piece out towards you and the inner white harness will slide out.





If you make a mistake, you can extract a pin with an exacto- knife or a very small flathead screwdriver

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### 1f. Nav Plus Installation – Phase 1 (2002-2004 A6/S6/RS6allroad – Symphony II) (Taping into GALA, illumination, ignition)



### Nav Plus Installation – Phase 1 (Location of GPS antenna/receiver)

1g.



Using 2" Velcro strips, I attached my GPS antenna up inside the dash area (above the inst. Cluster). You can't see it from this location, but when you have the cluster out, you will notice a little "cubby hole" area where you can insert the GPS. I put the Velcro strips down first, then wrapped my GPS in Velcro; it's in there pretty tight. As for reception, I average 5 or 6 GPS satellites received most of the time (a minimum of 3 is needed).

As for the remaining wire, you can also wrap it in Velcro and stuff in that same cubby area. I decided to run the GPS wire (see "G") in between these metal support pieces (not required for everyone else).

### Nav Plus Installation – Phase 1 (Removing drivers' side lower dash)

1h.



Screw#1 is behind the fuse box panel. Screws #4/#5 are underneath the upper trim plate.

### Nav Plus Installation – Phase 1 (View of TMC/CAN gateway)



### Nav Plus Installation – Phase 1 (Location of TMC/CAN gateway)



1j.

Heavy duty "zip ties" are used to hold it in place.

In relation to your Nav+ head unit and your instrument cluster, this is probably the best place to locate your TMC/CAN gateway unit for a A6/S6/RS6/allroad.

My unit came with the OEM mounting bracket, but I found it very difficult to fit into this area without doing a lot of permanent damage to the dash area. I spent over an hour trying to make it fit with no success. Instead, I decided to remove the mounting bracket (see diagram 1h) with a Torx T7 or T8 wrench.

My solution was to attach it to one of the existing metal braces inside the dashboard using large velcro strips (to reduce an future metal-on-metal vibrations) and large plastic electrical zip ties. It is pretty snug...and not going anywhere.

*Please note: Make sure you are able to access your 12 pin connector so you can easily plug it in later in the installation.* 

## 1k. Nav Plus Installation – Phase 1 (1999.5-2001 A6/S6/allroad – Symphony I)



This is where I ran my GPS wire and TMC/CAN harness prior to installing my TMC/CAN unit and removing my Symphony I head unit. *Please note: With your Symphony HU removed, you only need to run the GPS wire and the 4 pin Radio Shack connector. I would wrap both in electrical tap to avoid any "metal-on-metal" contact. Keep those tucked away for Phase 2 of the installation.* 

### **GPS antennas – OEM Trunk Mounted**



### GPS antennas - OEM Roof Mounted "Rod" Style



1m.





Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

Updated: 7/19/2004

### GPS antennas - OEM Roof Mounted "Shark Fin Style"



Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

Updated: 7/19/2004

# Audi Navigation Plus Installation – Phase 2 (A6/S6/RS6/allroad)

For Symphony I Head units (model year 1999.5 to 2001):

 Relocating pins from existing wiring harnesses and adding the necessary wire jumpers

Making preparations for future audio/video inputs and devices

For Symphony II Head units (model year 2002 – 2004):

 Relocating pins from existing wiring harnesses adding the necessary wire jumpers

Making preparations for future audio/video inputs and devices

Pictures: 2a – 2p

### Nav Plus Installation – Phase 2 (Removing Symphony I or II head unit using radio removal tools)

2a.



These tools can be purchased on <u>www.ebay.com</u> or via <u>www.samstagsales.com</u>. The part number is T10057.

### Nav Plus Installation – Phase 2 (Female connectors found behind your Symphony I & II head unit)

**2b**.



I highly recommend putting some electrical or painters' blue tape on the top edge of your climate control unit as you can easily "scuff" or mark it during Phase 2 of the installation.

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### Nav Plus (Back of head unit) – Phase 2

**2c.** 





Please note: I have purchased both of these tools and can lend them to anyone in the United States. Feel free to contact me at <a href="https://www.teddybgame@hotmail.com">teddybgame@hotmail.com</a>.

Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

Updated: 7/19/2004



Please note: The "T-style" wire taps are preferred by most stereo installation shops because you can easily remove the male blade connector from the tap. Whether you use the T-style or quick slide kind, you should use an Exactoknife or some kind of razor blade to strip away some of the wire insulation. You want to make sure you have good contact to the wire.

### Nav Plus Installation – Phase 2 (The Female 20 pin connector for Symphony I and II)

**2f.** 



## 2g.

### Nav Plus Installation – Phase 2 (Symphony I vs II – wiring differences)





#### Symphony II (2002-2004 A6/S6/RS6/allroad) to Nav Plus Wiring Diagram



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Updated: 8/4/2004

**2i.** 

### Nav Plus Installation – Phase 2 (Optional - upgrading the audio with pre-amp outputs)



**2j.** 

This 4-Channel Preamp Output Adapter sold for Blaupunkt car stereos (FYI – the Symphony I, II and Nav+ are manufactured for Audi by Blaupunkt) terminates and/or provides connection to a Symphony I, II and Nav+. In a Bose-equipped Audi, pins 1-6 in the 20pin connector are reserved for linelevel output to the Bose amplifier.

#### Source:

www.midwestelectronics.com www.continentalimports.com

RCA outputs and remote lead can be routed to your trunk area for adding an aftermarket amplifier



Pins 1-6: Audi Part#4A0 972 643 (Yellow). If you replace your one piece 20 pin connector with the yellow/green/blue 3-piece version, it will simplify adding one of these output connectors.

### Nav Plus Installation – Phase 2 (OEM CD changer cable and auxiliary audio input options)



Pins 13-20 (Audi Part#4A0 972 643B) – If you replace your one piece 20 pin connector with the yellow/green/blue 3-piece version, it will simplify adding one of these input connectors. If you have a 1999.5-2001, then you have the prewiring for the OEM CD changer. In 2002-2004, Audi stopped providing the pre-wiring for a trunk-mounted CD changer. The Audi part# for this is 4B0-051-735B

> If you install the BlitzSafe Adaptor, you can remove the green and yellow portions of this connector and use the blue connector in your existing yellow/green/blue 20 pin connector. There really isn't a lot of space to spare behind the Nav+ in a A6/S6/RS6/allroad



Precision Interface Electronics BLAU/8-RCA auxiliary input adapter. The 13" adapter cable has an 8-pin female connector at one end that connects to the back of the receiver. Blitzsafe Adaptor (part# AUDI/AUX DMX V.1B) will work with the Audi Navigation Plus. You can also purchase a version with a specific audio interface to Pioneer, Alpine, Kenwood etc aftermarket XM radios etc.

PIE Part#

### **US-Based Navigation Components**

21.



Please note: This picture is meant to describe how someone could use the GPS antenna from their existing navigation system (US-based) for a Nav+ upgrade. This is not meant to show how to add the US-based navigation option. To the best of my knowledge, I don't think anyone has performed this particular upgrade.

Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

Updated: 7/19/2004



### Nav Plus – Installation Phase 2 (Sym I to Nav+ "Plug and Play" wire harness – Not used)



*Please Note: Because of the limited space behind the Sym I head unit and climate control, I was unable to use this harness. I was able to plug it in and it worked perfectly. However, it might work in an B5/B6 A4/S4 or D1/D2 A8/S8.* 



### Nav Plus – Phase 2 (another view) (Plug and Play wire harness – Not used)



Please Note: Because of the limited space behind the Sym I head unit and climate control, I was unable to use this harness. I was able to plug it in and it worked perfectly. However, it might work in an B5/B6 A4/S4 or D1/D2 A8/S8.

#### Nav Plus – Installation Phase 2 Connectors/Pins



### 26 Pin Connector and female wire/pin





Audi Part#: 000-979-010

Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

### Nav Plus – Aftermarket "Plug and Play" wiring harness

2p.



Please Note: This connector will simplify your installation. In pre-2002 A6's, the wiring is a closer match correspond because this was built for a non-CANbus environment. In a 2002-2004 A6's (which run on a CANbus), you'll need to modify this harness to route illumination, ignition power and speed sensor/GALA information from the instrument cluster. **Also, please note that space** *is at a premium behind your A6 dash area, and adding this harness will make it difficult for you to push you Nav+ into place.* Available at <u>www.vwnavi.com</u>, <u>www.nav-plus.com</u> or <u>www.ebay.de</u>

## Audi Navigation Plus Installation – Phase 3 (A6/S6/RS6/allroad) Video Interface

For Symphony I and II head units (model year 1999.5 to 2004):

Removal of driver and passenger side lower dashboard

 Installation of Nexxtel interface and Blaupunkt ME3 DVD/CD/MP3 Player into glove box area

Pictures: 3a – 3v

### Nav Plus – Phase 3 (Removal of lower dashboard – drivers' side)

3a.



Screw#1 is behind the fuse box panel. Screws #4/#5 are underneath the upper trim plate.

### Nav Plus – Phase 3 (Removal of lower dashboard – passenger side)

**3b.** 



Using an 8MM socket wrench you'll need to unscrew the following screws to be able to remove the lower dash. I recommend following this order and reinstalling in reverse order.

### Nav Plus – Phase 3 (Removal of lower dashboard – passenger side)



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#### Nav Plus – Phase 3 (Plugging in Auxiliary Audio/Video Interface)

3d.



Please note: There is very limited space behind the head unit in an A6. I highly recommend running the cable for the A/V interface device from behind the drivers' side opening. Once it is connected to the rear of the Nav+, you can gently slide the Nav+ back in place. Make sure the cable does not get crimped as you push the head unit back in place. Then you can mount the A/V device.

#### Nav Plus – Phase 3 (Installing a Speed Sensor Switch)



Please note: By installing this switch, you will allow your passengers to view video images on your Nav+ screen while you drive. Your GALA functionality will be eliminated as a result of this modification. Thus, the volume will not increase/decrease as your speed increases/decreases. It is not safe to watch movies while you drive; please perform this modification at your own risk.

#### Nav Plus – Phase 3 (Picture behind glove box area)



Please note: The space behind the glove box is extremely tight. There is very little room to locate electronics. The Blaupunkt ME3 is a large DIN sized unit that barely fit because of it's required mounting depth. When you are selecting a DVD/MP3 player for this phase, you'll want to research the installation dimensions needed. You might even want to consider locating your DVD/MP3 player to some place in the trunk.

#### Nav Plus – Phase 3 (Removing the glove box door)



## Nav Plus – Phase 3 (Location of ignition, battery and ground source)



Please note: Before you unscrew these terminal connectors, make sure your metal socket wrench does not touch any metal parts of the lower dash area (you could damage other electronic components). I would highly recommend disconnecting the battery just prior to connecting to these power sources

#### Nav Plus – Phase 3 (Location of fuses for Nexxtel Interface and Blaupunkt ME3)



I ran two 3AMP fuses just above my fuse box to support the Nexxtel device and the Blaupunkt ME3 unit. This way, I won't have to pull open the dashboard to replace a fuse.



This is the fused wiring harness for my Motorola v60 Hands-free car kit. In this space, it is very accessible to replace fuses.

#### Nav Plus – Phase 3 (Installation of Blaupunkt ME3 in glovebox)



#### Nav Plus – Phase 3 (Installation of Nexxtel Interface)



## **3I.** Nav Plus – Phase 3 (Installation of Nexxtel Interface and Blaupunkt ME3 CD/DVD/MP3/TV Tuner)



#### Nav Plus – Phase 3 (Final Wiring of Nexxtel Interface and Blaupunkt ME3)

3m.



# **3n.** Nav Plus – Phase 3 (Installation of Nexxtel Interface and Blaupunkt ME3 CD/DVD/MP3/TV Tuner)



### Nav Plus – Phase 3 (Location of IR sensor for Blaupunkt ME3 CD/DVD/MP3/TV Tuner)

30.



Running the wire for the IR sensor was extremely easy. There is an open space where the dashboard meets the bottom of the windshield. I used a 2" plastic putty knife to feed the wire along the edge of the windshield and at the base of the A pillar.

#### Nav Plus – Phase 3 (Aftermarket Amplified TV Tuner antenna)



Please note: The Blaupunkt ME3 comes with a non-amplified TV antenna. The reception is horrible...so I decided to invest in an amplified antenna. I will hide it in the headliner near the windshield and run the wire down the A pillar. This antenna has a F-connector which works with my ME3.

http://www.qualitymobilevideo.com/tvtunersandantennas.html

**3p.** 

#### Nav Plus – Phase 3 (Blaupunkt ME3 Screen Shot – DVD Player Mode)

3q.



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#### Nav Plus – Phase 3 (Blaupunkt ME3 Screen Shot – TV Tuner Mode)



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Nav Plus – Phase 3 (Blaupunkt ME3 Screen Shot – Toggle between Map Screen)

**3s.** 



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Updated: 11/9/2004

#### Nav Plus – Phase 3 (Blaupunkt ME3 Screen Shot – MP3 Mode Folder/File Names)

**3t.** 



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Updated: 11/9/2004

#### Nav Plus – Phase 3 (Video screen shot – while switch is inactive)

**3u**.



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Updated: 11/9/2004

#### **2001 A6 Avant – Interior Modifications**



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Updated: 11/9/2004

### Audi Navigation Plus – Other Input Devices

Pictures: 4a – 4g

#### Nav Plus Installation (Running OEM CD changer cable and PhatBox in trunk)



**CD Changer** 

**4a**.

PhatBox or BlitzSafe etc.

For more information please contact: Jeffrey D. Bipes jbipes@comcast.net http://forums.audiworld.com/audio/msgs/38643.phtml If you have a 2003/2004 A6, then you'll need the CD Changer cable for the trunk. Audi Part# 4B0-051-735-B

#### Nav Plus Installation (Non-OEM Audio/Video Input Interfaces)



#### Nav Plus Installation (Non-OEM Audio/Video Input Interfaces)



**4c.** 





#### Available at www.navtv.com

NAV-TV Corp. 100 NW 11th Street Boca Raton, FL 33432 866-477-3336 toll free 561-955-9770 International 516-955-9760 Fax

#### Nav Plus Installation – OEM Glovebox CD Changer



4d.



For the B6 A4/S4 and C6 A6, Audi offers a glove box CD Changer. Unfortunately, there is a specific version/revision letter that works with the Navigation Plus. The US Audi parts dealers cannot source this part. You can contact <u>www.vagparts.com</u> as they can order it for you.

For the OEM glove box changer you must get part# 8E0 035 111 B, or C. It must have a version letter at the end of the part number. It also requires harness, part#8E0 051 592.



*Please note: If you would like to mount this OEM CD Changer in your glove box, please follow some of the steps that I took to install the Blaupunkt ME3. You can always consult a car stereo installation shop as another option.* 





If you have a 2003/2004 A6, then you'll need the CD Changer cable to connect your PhatBox to the Nav Plus.

Audi Wiring harness: Audi Part#: 4B0 051 735B www.clairparts.com

#### Nav Plus Installation (Non-OEM Audio Input Interfaces)



Please note: If you use a BlitzSafe adaptor, you won't be able to hook up the OEM CD changer or PhatNoise PhatBox and use the Nav+ to control track up/down etc.

Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

Nav Plus Installation – Dietz 1213 device (Non-OEM Audio Input Interfaces)



Please note: This is only for audio input via the OEM TV input interface. This is ideal if you want to run the audio from your iPOD or another MP3 player into your Nav unit. You will probably have a pink screen on the Nav+ video display if you use one of these devices. Available at <u>www.vwnavi.com</u> or <u>www.nav-plus.com</u>

Courtesy of Ted Basile ( teddybgame@hotmail.com )

### Audi Navigation Plus – Screen Shots

Pictures: 5a - 5j

#### **Nav Plus in Action – Screen Shots**



Updated: 11/19/2004

#### Nav Plus in Action – Screen Shots (Compass Display)



#### Nav Plus in Action – Screen Shots (Various volume settings)

**5**C





Nav Plus in Action – Screen Shots (TMC rerouting options - 2)



**5e** 

#### Nav Plus in Action – Screen Shots (TMC rerouting options - 3)



Please note: With the right hand knob, you can specify the detour distance in increments of .06 miles.





Europe where the Traffic Message Channel service is available.

**5g** 



**5h** 



Please note: In North America, this screen doesn't do anything. This is only applicable in Europe where the Traffic Message Channel service is available.
Nav Plus in Action – Screen Shots (Various views at the Instrument display)







# Audi Navigation Plus – Interior Pictures of European Model C5 A6/S6/RS6/allroad

Pictures: 6a – 6i

**6a** 



Courtesy of Ted Basile ( teddybgame@hotmail.com )

**6b** 



Courtesy of Ted Basile ( teddybgame@hotmail.com )

**6c** 



Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )



Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

**6e** 



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Courtesy of Ted Basile ( <a href="mailto:teddybgame@hotmail.com">teddybgame@hotmail.com</a> )

**6g** 



**6h** 



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