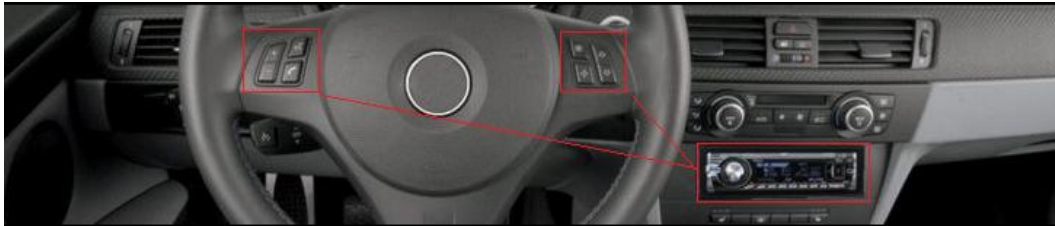


General

Many original radio- or navigation systems are CAN-BUS, K-bus or resistive controlled. When the original radio- or navigation system is replaced by an aftermarket radio- or navigation system (e.g.; Kenwood, Alpine or Pioneer systems), the signals such as positive ignition output, reverse gear signal, steering wheel controls, etc. cannot be used anymore.



The NavInc steering wheel interface enables to convert the CAN-BUS, K-bus or resistive signals to usable analogue signals. Because of the interface the original functions of the vehicle keep working in combination with an aftermarket radio- or navigation system, such as;

- Steering wheel controls
- Parking sensors
- Original amplifier / sound system
- Controls of the info display via the aftermarket radio

Also other digital signals of the car can be converted to analogue signals, so the aftermarket radio- or navigation systems can make use of these signals as well, such as;

- Light output
- Positive ignition output
- Handbrake output
- Speed pulse output
- Reverse gear output

The interface is suitable for over 200 different car models and 20 aftermarket radio- and navigation system manufacturers. The interface is compatible with the following protocols: CAN-BUS, K-BUS and Resistive. Besides also Plug and Play cable kits are available for an easy installation without damaging the original wiring of the vehicle.

See tab "Downloads" for the complete compatibility list or see this link:

[LINK CATALOG](#)

An overview of the different functionalities:

Steering Wheel Controls



The interface makes sure the original steering wheel controls functionality

maintains the same in combination with the right control cable (optional).

The following functionalities are possible:

Skip songs

Volume control

Play/Pause

Source option (switch between FM-AM-CD-iPod-etc.)

Mute

Up / Down menu buttons

Telephone answer/deny

For specific functionalities check tab "Compatibility".

P&P cables



At the bottom of the page you can select the following:

- Universal cable kit
- Plug & play cable kits
- No cable kit

CAN-BUS



The interface has self learning profile selection in car models with CAN-BUS and K-bus controls.

Positive ignition output



The interface reads out the ignition output from the CAN-BUS or K-bus protocol and converts it to a usable analogue +12V output signal (maximum 2A). With this signal the aftermarket radio- or navigation system switches on and off automatically when the ignition will be switched on or off.

Light output



The interface reads out the light signal output from the CAN-BUS or K-bus protocol and converts it to a usable analogue +12V output signal (maximum 0.04A). With this signal the aftermarket radio- or navigation system switches to night view (colours) automatically when the lights will be switched on.

Speed pulse signal



The interface reads out the speed pulse signal from the CAN-BUS or K-bus protocol and converts it to an usable analogue speed signal (km/h or Miles).

Reverse gear signal



The interface reads out the reverse gear from the CAN-BUS or K-bus protocol and converts it to an usable analog +12V output signal (maximum 0,04A). With this signal the aftermarket radio- or navigation system switches automatically to the camera input when the car is getting into the reverse gear.

Handbrake output



The interface reads out the handbrake signal from the CAN-BUS or K-bus protocol and converts it to an usable analogue output signal.

Audio menu recovery

Audio menu recovery for those cars with SEEK buttons shared between radio and body computer (like Mercedes).

Phone function

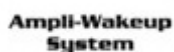
For those cars having Telephone steering Wheel buttons control to answer / refuse any call coming from the aftermarket radio hands free Telephone.

Parking sensors recovery



Some car models the OEM parking sensors will not work anymore after removing the original radio. The interface recover the OEM parking sensors via an optional buzzer.

Amplifier



Some car models the OEM amplifier will be shut down after removing the original radio. The interface recover the OEM CAN-BUS controlled amplifier in combination with the aftermarket radio.

Original car menu control



To manage car body computer by steering wheel commands in those cars which it can be controlled by the OEM radio.

The following is provided in the set:

- SW interface
- Installation- and user manual
- Warranty
- Invoice

Optional:

- (Plug and play) cable adapter (selectable at the bottom of this page)
- Radio adapter (selectable at the bottom of this page)
- Parking sensor buzzer

Additional information:

- Check at the "compatibility" tab on top of this page if your car model, radio or navigation system is suitable for this product.
- At this tab you will also find information about the support of steering wheel controls.
- Choose the right optional Radio-adapter (selectable at the bottom of this page)
- Choose the right cable adapter (selectable at the bottom of this page)
- The interface is CE, FCC and TUV certified

Product specifications:

Voltage: 10 - 16V VDC

Standby consumption: 0,001 A

Decrease in Operating: 0,048 A

Temperature range: - 30°C up to + 80°C

Weight: 42gr

Dimensions: Width 65mm x Height 65mm x Depth 25mm

Compatibility

The interface is compatible with the following models from VW:

Y = Yes

N = No

		1	2	3	4	5	6	7	8	9	10	11	12	13
Beetle	2012->	Y	Y	Y	Y	Y	Y	N	Y	N	Y	N	Y	VW11
Eos	2007->	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Golf	2004-2007	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Golf Plus	2004->	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	VW11
Golf VI	2008->	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Golf VI	2008->	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	N	
Multivan	2007->	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
New Touareg	2007-2009	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Passat	2004-2009	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	VW11
Passat	2010->	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Passat CC	2008->	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Polo	2009->	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Scirocco	2008-2010	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	VW11

Scirocco	2011->	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Sharan	2010->	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Tiguan	2007-2010	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	VW11
Tiguan	2011->	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Touareg	2004-2006	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11
Touran	2004-2009	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	VW11
Touran	2010->	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	VW11

- 1: Steering Wheel compatible
- 2: Positive ignition output
- 3: Positive light output
- 4: Speed signal output
- 5: Reverse gear output
- 6: Negative handbrake output
- 7: Audio menu recovery
- 8: Phone buttons compatible
- 9: Parking sensors recovery
- 10: Ampli wakeup function
- 11: Car menu control
- 12: Plug and play adapter available
- 13: Article plug and play adapter

For the complete compatible list see tab "Downloads" or see this link:
[LINK CATALOG](#)

Cable kits

The following cable adapters are available for VW:

Plug and play cable adapter = CXC-CO-VW11

No cable kit = No cable adapter

Universal cable adapter = CXC-CO-UN12

Universal cable adapter with IR connector = CXC-CO-UN11

The cable adapters can be selected at the bottom of this page.

Radio adapters

To maintain the original steering wheel control you must select the optional radio adapter at the bottom of this page.

Below you will find a short overview of the various radio adapters and compatible radio models.

CX-ST-JV12

CLARION, JVC, BELSON NAVIX-450, BS3112; **MACROM** M-DVD5542R, M-DVD5561R, M-DVD5562R ; **DIGITAL DYNAMIC** DYMAGE-N620; **SKYWAY** GM-7540 NAVI; **AUTOSONIK** DAYTONA 8000, INDIANAPOLIS 2600, MONTECARLO 2010, INDIANAPOLIS 6100 Navi ; **PHONOCAR** VM033, VM037, VM029.

CX-ST-PI12

PIONEER; SONY*; **PHONOCAR** VM040*(**flashes 5**), VM041* (**flashes 5**), VM024; **NAVIS** NS-1770 (**flashes 5**); **UNICARS** EAGLE3.5, EAGLE2D,

EAGLE2DBT, EAGLE2DGPS, EAGLE2DNAV, EAGLE2D62NB (**flashes 4**); **EVUS** DD710X (**flashes 4**); **INNOVATE** INVM3231 (**flashes 4**); **CASKA** CA1621G (**flashes 4**); **AUTOSONIK** SUZUKA 3400, LE MANS 1200, BAHRAIN 1100; **KENVOX** AFRICA TWIN 1400, RAPTOR 1200, LOW RIDER 1100; **DIGITAL DYNAMIC** DYMAGE NF630 (**flashes 4**), DYMAGE M700 (**flashes 4**); **BLAUPUNKT** NEW YORK 800 RESISTIVE (max 6 button).

CX-ST-AL22
ALPINE

CX-ST-KE11
KENWOOD

CX-ST-PN21
PANASONIC; PHONOCAR FORYOU, CMU128, CM123, VM020, VM021, DM736, VM016, VM017, VM030, VM031, VM032, VM036, VM050, N6205, VM066; **AUTOSONIK** DAYTONA 7000; **ZENEC** ZE-MC194, ZE-MC192, ZE-NC2040, XZENT XT8020, ZE-NC520, ZE-NC524; **DIGITAL DYNAMIC** DX650D, DX700; **HARDSTONE** HS DPM61, HS DPM62, HS DPM63, HS DPM31, HS DPM7G, HS DPM8G, HS DPM71, HS DPM69, HS DPM64; **MACROM** M-DVD6555R, M-DVD6556R; **KENVOX** NINJA 7200, NINJA 7200 N; **RADIO JEEP; RADIO AUDI A4.**

CX-ST-BL12
BLAUPUNKT; BLAUPUNKT 2 ATLANTA 110, MADRID 210, TORONTO 410 BT, SAN FRANCISCO 310.

CX-ST-VD11
VDO*

CX-ST-EL11
ECLIPSE AVN2227P, AVN4429, AVN726EE.

*Special hardware required (via infrared), contact NavInc before the interface will be ordered.

For a full radio compatibility list and features, see the following link:

[LINK RADIO COMPATIBILITY LIST](#)

Optional cable adapters

To maintain the original parking sensors, the optional buzzer must be ordered:
CXC-ACC-PDC