



TV-Free

Universal video-in-motion Interface

INT CAS 500

Versione plug and play can bus

Informazioni legali

Per la legge, la visione delle immagini mentre si è alla guida è proibita, il guidatore non deve essere distratto. L'acquirente e' pertanto responsabile verso se stesso ed altri per danni diretti o indiretti causati durante l'utilizzo.

Il prodotto è aggiornabile per renderlo compatibile a variazioni di software delle vetture attualmente nella lista di compatibilita' o per l'aggiunta di vetture nuove.

Il software di aggiornamento sono disponibili gratuitamente.

1. Prima dell'installazione

- 1.1. Contenuto
- 1.2. Pin-out cablaggio
- 1.3. Funzioni degli switch

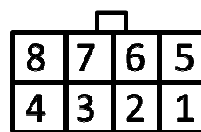
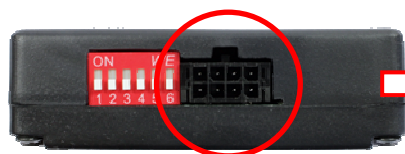
2. Installazione

3. Specifiche

4. Supporto tecnico

1.1. contenuto

1.2. Pin-out cablaggio



Posizione pin sul connettore femmina della centralina

COLORE CAVO	Pin-No.	FUNZIONE
● GIALLO	Pin 4	CAN-HIGH – connettere alla radio
● Blu	Pin 3	CAN-LOW – connettere alla radio
●● GIALLO/NERO	Pin 8	CAN-HIGH – connettere al veicolo
●● BLU/NERO	Pin 7	CAN-LOW – connettere al veicolo
● ROSSO	Pin 1	+12V permanente
● NERO	Pin 5	Massa
● VERDE	Pin 6	Attivazione funzione video in movimento (Fornendo un +12V si sblocca la visione)
● BIANCO	Pin 2	Uscita alim. retrocamera (+12V DC 500mA)

1.3. Funzioni switch

Dip 1 – attivazione sblocco immagini

Dip 2 – nessuna funzione (in alcuni veicoli funzione retrocamera)

Dip 3 – nessuna funzione (in alcuni veicoli funzione attivazione icona TV)

Dip 4 – nessuna funzione

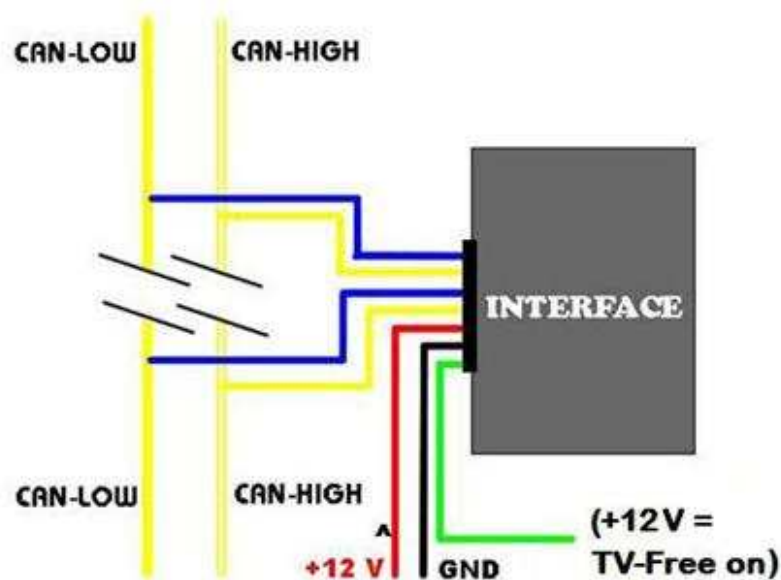
Dip 5 – Resistenza di terminazione CAN BUS lato veicolo

Dip 6 – Resistenza di terminazione CAN BUS lato radio

2. Installazione senza cavo plug and play dedicato

Spegnere il veicolo e attendere che vada in sleep mode o, dove possibile, scollegare il polo negativo della batteria. scollegare la batteria.

Installare l'interfaccia e i rispettivi cavi CAN BUS . Separare i 2 cavi CAN BUS (CAN-HIGHT e CAN-LOW) dal navigatore e collegarli all'interfaccia come da schema (immagine qui sotto). Connettere il cavo **rosso** al **+12V permanente** e connettere il cavo **nero** a **massa**.



Le immagini in movimento si attivano e disattivano con lo switch 1 o in alternativa con il filo verde.

Immagini sbloccate in modo permanente

Con lo switch N. 1 in ON, le immagini sono sbloccate in modo permanente, senza disturbare la navigazione.

Attivazione/disattivazione sblocco immagini manuale

Con lo switch 1 in OFF ,usare il cavo verde per attivare/disattivare lo sblocco immagini secondo la tabella sotto riportata:

Connect a switch to the green cable and connect the green cable to +12V ACC.

- +12V = IMMAGINI SBLOCCATE
- 0V = IMMAGINI BLOCCATE

Note: Il cavo bianco se non utilizzato, deve essere isolato

Vetture con Audi Navi Plus RNS-E



Installare la centralina dietro l'unità di navigazione.

Veicoli compatibili

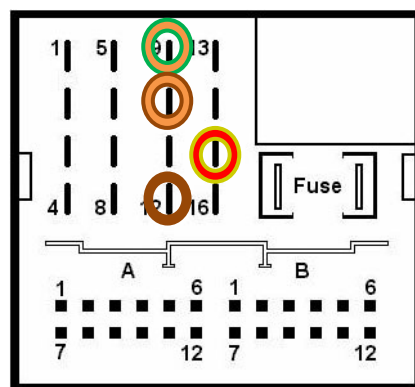
Audi A3, A4, TT (8J)

Attention! Audi A6 with Navi Plus RNS-E have analog speed signal.

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Navi Plus RNS-E	OFF	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
● Red/Yellow	+12Volt Permanent 15
● Brown	Ground Pin 12
● Orange/Green	CAN HIGH Pin 9
● Orange/Brown	CAN LOW Pin 10

Le informazioni riguardanti le connessioni sono indicative e Potrebbero non corrispondere. Verificare sempre la corrispondenza.



Pressione lunga del tasto „>|“ (circa 5 secondi) per attivare/disattivare la funzione. Quando la chiave vettura è in off, la centralina sarà automaticamente disattivata.

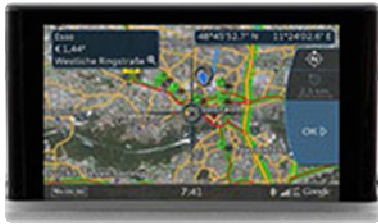
Lampeggio lungo retroilluminazione navi = SBLOCCO ON

Lampeggio corto retroilluminazione navi = SBLOCCO OFF



Note: Con lo sblocco attivo, non sarà possibile navigare

Vehicles with Audi MIB High (e.g. Audi A3 8V)



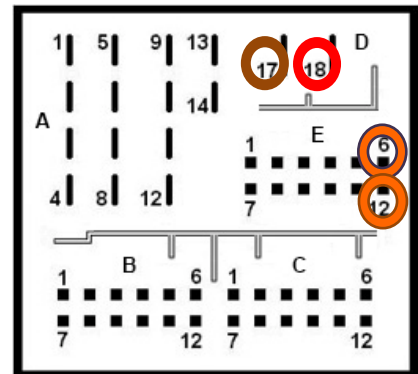
Place of installation is at the back side of the navigation unit

<i>Compatible vehicles</i>	Audi A3 8V
<i>Navigation</i>	MIB High - MMI® Navigation plus mit MMI® touch

Vehicle/navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
MIB High	ON	OFF	OFF	OFF	ON	ON

Cable colour	Assignment
● Red	+12V permanent Pin 18
● Brown	Ground Pin 17
● Orange/Violet	CAN HIGH Pin 6
● Orange/Brown	CAN LOW Pin 12

**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given
information must be verified by the installer.**



The video-in-motion function is activated permanently without disturbing the navigation performance.

Vehicles with BMW NBT



Place of installation is at the back side of the navigation unit.

Compatible vehicles

BMW 1series (F20/21), 3series (F30/31/32/33)

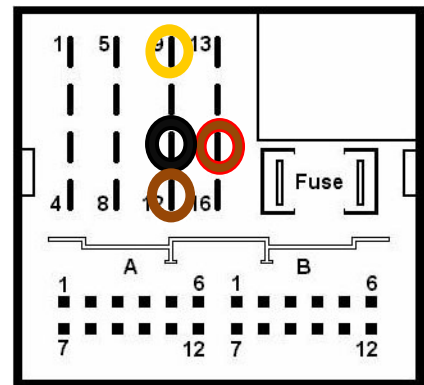
Navigation

Navigation system **Professional NBT** with 8.8" monitor

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Professional NBT	ON	OFF	OFF	OFF	ON	ON

Cable colour	Assignment
● ● Brown/Red	+12V permanent 15
● Brown	Ground Pin 12
● Black	CAN HIGH Pin 11
● Yellow	CAN LOW Pin 9

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



The video-in-motion function is activated permanently without disturbing the navigation performance.

Vehicles with ZAB



Place of installation is at the back side of the navigation unit.

<i>Compatible vehicles</i>	Bentley Continental Coupe GT, VW Phaeton till about 03/2010
<i>Navigation</i>	ZAB

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

32-pin connector

Cable colour	Assignment
● Orange/Green	CAN HIGH Pin 16
● Orange/Brown	CAN LOW Pin 32



8-pin power harness

Cable colour	Assignment
● Red	+12V Permanent Pin 7
● Brown	Ground Pin 8

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

Vehicles with MYGIG



Place of installation is at the back side of the navigation unit.

<i>Compatible vehicles</i>	Chrysler, Dodge and Jeep
<i>Navigation</i>	MYGIG RER/REW/REN/REP/RHW

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
○ ● White/Orange	CAN-HIGH - Pin 13
○ White	CAN-LOW - Pin 2
● Red	+12V Permanent - Pin 1
● Black/Green	Ground - Pin 12

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

Chrysler, Dodge, Jeep and Fiat Freemount with Uconnect

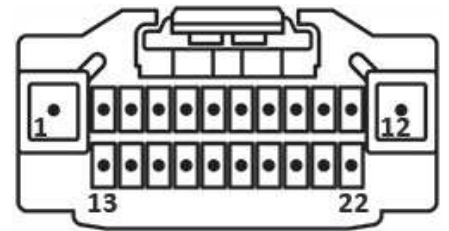


Place of installation is at the back side of the navigation unit.

<i>Compatible vehicles</i>	Chrysler, Dodge, Jeep, Fiat Freemount
<i>Navigation</i>	Uconnect with 8.4" monitor

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Pin NO.	Assignment
Pin 7	CAN-HIGH
Pin 18	CAN-LOW
Pin 12	+12V Permanent
Pin 1	Ground



No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

Vehicles with RT3-N3 CAN and RT4



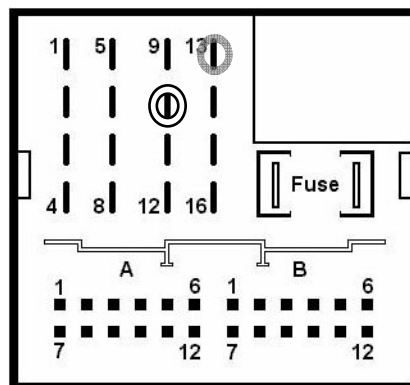
Place of installation is at the back side of the navigation unit.

<i>Compatible vehicles</i>	Citroen, Peugeot
<i>Navigation</i>	RT3-N3 CAN, RT4

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	OFF	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
• White	CAN HIGH Pin 10
• Grey	CAN LOW Pin 13

**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.**



Longpress the "SRC"-button on the steering wheel (about 3 seconds) to activate/deactivate the video-in-motion function. When ignition is off, the video-in-motion interface will be automatically disabled.

Note: While the video-in-motion function is activated, the navigation performance is not possible!

Vehicles with NG4 NaviDrive and NG4 WipCom



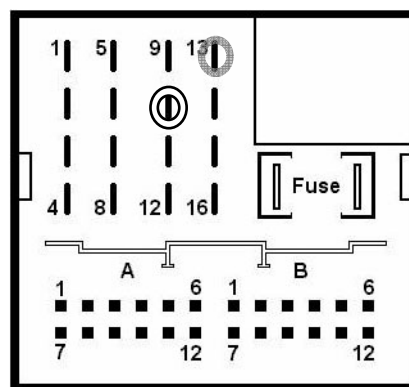
Place of installation is at the back side of the navigation unit.

<i>Compatible vehicles</i>	Citroen, Peugeot
<i>Navigation</i>	NG4 NaviDrive (Citroen), NG4 WipCom/WipNav (Peugeot)

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
• White	CAN HIGH Pin 10
• Grey	CAN LOW Pin 13

**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.**



The video-in-motion function is activated permanently without disturbing the navigation performance.

Note: *On some vehicles the navigation performance is affected and as long as the video-in-motion function is activated the navigation will not be working! In this case you have to connect the green cable as described in chapter "Exception: Vehicles with RT3-N3 CAN and RT 4 without Source-button" and set Dip 1 to OFF.*

Ferrari California with MYGIG



Place of installation is at the back side of the navigation unit.

Compatible vehicles Ferrari California

Navigation MYGIG

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
○ ● White/Orange	CAN-HIGH - Pin 13
○ White	CAN-LOW - Pin 2
● Red	+12V Permanent - Pin 1
● Black/Green	Ground - Pin 12

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

Ford Edge with MYGIG



Place of installation is at the back side of the navigation unit.

Compatible vehicles Ford Edge, Edge 2011

Navigation MYGIG

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Connector A

Cable colour	Assignment
● ● Grau/Orange	CAN-HIGH
● ● Violett/Orange	CAN-LOW

Connector B

Cable colour	Assignment
○ ● White/Red	+12V Permanent
● ● Black/Blue	Ground



Connector A

Connector B

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

Jaguar XF with Touch-screen navigation version 2



Place of installation is at the back side of the radio module.

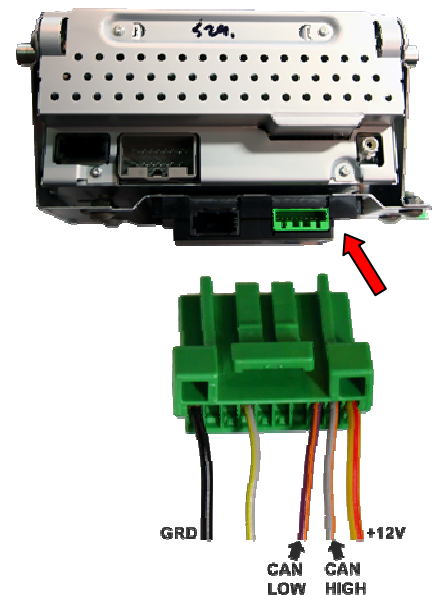
<i>Compatible vehicles</i>	Jaguar XF
<i>Navigation</i>	Touch-screen navigation version 2

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	ON

Cable colour	Assignment
● Yellow/Red	+12V Permanent
● Black	Ground
● Grey/Orange	CAN-HIGH
● Purple/Orange	CAN-LOW

Attention: CAN-LOW and CAN-HIGH could be reversed at older vehicles (e.g. Grey/Orange = CAN-LOW)!

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



The video-in-motion function is activated permanently without disturbing the navigation performance.

Jaguar XJ and XF with Touch-screen navigation version 3

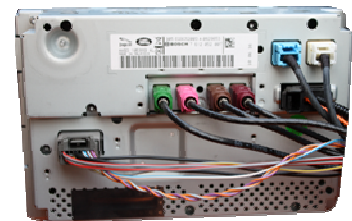


Place of installation is at the back side of the monitor.

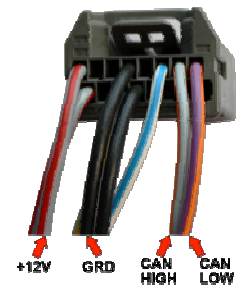
<i>Compatible vehicles</i>	Jaguar XF X250 (from model 2012), XJ X351 (from model 2011)
<i>Navigation</i>	Touch-screen navigation version 3

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	ON

Cable colour	Assignment
● Grey/Red (Pin 8)	+12V Dauerplus
● Black (Pin 5)	Masse
● Grey/Orange (Pin 2)	CAN-HIGH
● Purple/Orange (Pin 1)	CAN-LOW



No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



The video-in-motion function is activated permanently without disturbing the navigation performance.

LandRover with Touch-screen navigation version 1



Place of installation is at the back side of the radio module. (a hide-away box which is located behind the glove box or behind the factory navigation monitor).

Compatible vehicles

Range Rover (Vogue) L322 (2005-2009), Range Rover Sport L320 (2005-2009), Discovery3 L319 (2004-2009)

Navigation

Touch-screen navigation version 1



Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Vehicles without rear-view camera or with after-market rear-view camera	ON	OFF	OFF	OFF	ON	ON
Vehicles with factory rear-view camera	ON	ON	OFF	OFF	ON	ON

Note: Dip switch functions of the TV-500

Dip 1 – activation TV-free

Dip 2 – factory rear-view camera existing

Dip 3 – TV icon simulation

Dip 4 – no function

Dip 5 – CAN-bus termination resistor on the vehicle side

Dip 6 – CAN-bus termination resistor on the head-unit side

Range Rover Vogue

Cable colour	Assignment
●○ Yellow/White	CAN-HIGH Pin 9
●● Yellow/Blue	CAN-LOW Pin 10

Sport & Discovery

Cable colour	Assignment
●○ Yellow/White	CAN-HIGH
●● Yellow	CAN-LOW

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

LandRover with Touch-screen navigation version 2



Place of installation is at the back side of the radio module. (a hide-away box which is located behind the glove box or behind the factory navigation monitor).

Compatible vehicles

Range Rover (Vogue) L322 (2005-2009), Range Rover Sport L320 (2005-2009), Discovery3 L319 (2004-2009)

Navigation

Touch-screen navigation version 2



Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Vehicles without rear-view camera	ON	OFF	OFF	OFF	ON	ON
Vehicles with rear-view camera	ON	ON	OFF	OFF	ON	ON

Note: Dip switch functions of the TV-500

Dip 1 – activation TV-free

Dip 2 – rear-view camera existing

Dip 3 – TV icon simulation

Dip 4 – no function

Dip 5 – termination resistor CAN-Bus

Dip 6 – termination resistor CAN-Bus

Setting dip 2 to ON codes the factory rear-view camera input which is located on the brown Fakra male connector of the factory monitor. When reverse gear is engaged, the navigation will automatically switch to this input. On vehicles with factory rear-view camera set Dip 2 to ON, too.

Range Rover Vogue

Cable colour	Assignment
●○ Yellow/White	CAN-HIGH Pin 9
●● Yellow/Blue	CAN-LOW Pin 10

Sport & Discovery

Cable colour	Assignment
●○ Yellow/White	CAN-HIGH
●● Yellow	CAN-LOW

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

LandRover from 2012 with Touch-screen navigation version 3



Place of installation is at the back side of the monitor.

Compatible vehicles

Range Rover Evoque L538, Range Rover Sport, Discovery4
from year 2012

Navigation

Touch-Screen Navigation 3rd generation

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Vehicles without rear-view camera	ON	OFF	OFF	OFF	ON	ON
Vehicles with rear-view camera	ON	ON	OFF	OFF	ON	ON

Note: Dip switch functions of the TV-500

Dip 1 – activation TV-free

Dip 2 – rear-view camera existing

Dip 3 – TV icon simulation

Dip 4 – no function

Dip 5 – CAN-bus termination resistor on the vehicle side

Dip 6 – CAN-bus termination resistor on the head-unit side

Setting dip 2 to ON codes the factory rear-view camera input which is located on the brown Fakra male connector of the factory monitor. When reverse gear is engaged, the navigation will automatically switch to this input. On vehicles with factory rear-view camera set Dip 2 to ON, too.

Pin-assignment factory monitor connector

Cable colour	Assignment
● Orange/grey	CAN-HIGH Pin 2
● Orange/purple	CAN-LOW Pin 1

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

Mercedes Benz with Comand 2.0



Place of installation is at the back side of the navigation unit.

Compatible vehicles

Mercedes Benz C-class (W203) til 03/2004, CLK-class (C208 W208) all years, CLK-class (C209 W209) til 05/2004, E-class (W210) all years, G-Model (G463) from 12/2000 til 03/2007, ML-class (W163) all years, SL-class (R230) til 06/2004, CL-class (C215) til 09/2003, S-class (W220) til 09/2003

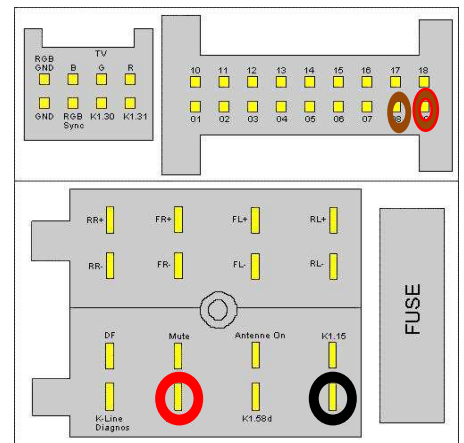
Navigation

Comand 2.0, Comand APS220/CD

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
● Red	+12V Permanent A Pin 4
● Black	Ground A Pin 8
●● Brown/Red	CAN-HIGH C2 Pin 9
● Brown	CAN-LOW C2 Pin 8

**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer**



The video-in-motion function is activated permanently without disturbing the navigation performance.

Mercedes Benz with Comand 2.5



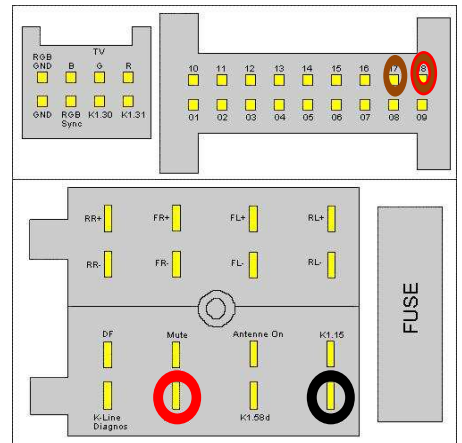
Place of installation is at the back side of the navigation unit.

<i>Compatible vehicles</i>	Mercedes Benz CL-class (C215) til 09/2003, S-class (W220) til 09/2003
<i>Navigation</i>	Comand 2.5

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
● Red	+12V Permanent A Pin 4
● Black	Ground A Pin 8
● Brown/Red	CAN-HIGH C2 Pin 18
● Brown	CAN-LOW C2 Pin 17

**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer**



The video-in-motion function is activated permanently without disturbing the navigation performance.

Maybach and Mercedes Benz with Comand APS NTG 1



Place of installation is at the AGW-module (Audio-Gate-Way). The AGW-module is placed in the luggage compartment at the left hand side behind the cover of the navigation unit or under the driver seat (SLK R171) or under the front passenger seat (SL R230).

Compatible vehicles

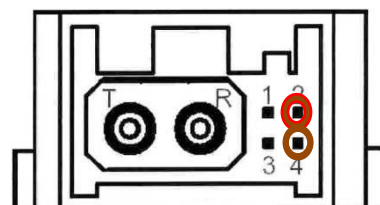
Maybach (with green Fakra connector on backside of Comand), Mercedes Benz CL-class (C215) from 10/2003 til 12/2005, S-class (W220) from 10/2003 til 09/2005, SL-class (R230) from 07/2004 til 03/2008, CLS-Coupe (W219) from 10/2004 til 03/2008, E-class (W211) til 05/2008, SLK-class (R171) from 03/2004 til 03/2008

Navigation

Comand APS DVD, Comand APS NTG1

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
●● Brown/Red	CAN-HIGH Pin 2
● Brown	CAN-LOW Pin 4



**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.**

The video-in-motion function is activated permanently without disturbing the navigation performance.

**Mercedes Benz with Comand APS NTG 2/NTG 2.5/NTG 4 and Comand Online, NTG 4.5
VW Crafter with Comand APS NTG2**



Place of installation is at the back side of the navigation unit.

Compatible vehicles

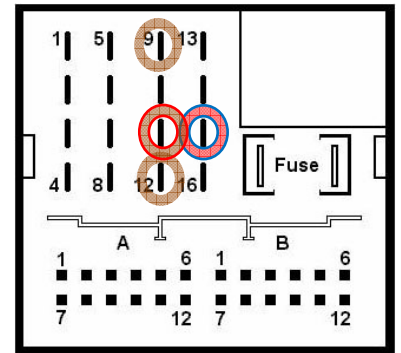
Mercedes Benz A-class (W169) from 09/2004 til 06/2008, B-class (W245) from 09/2004 til 06/2008, C-class (W203) from 04/2004 til 02/2007, CLC-class (CL203) from 06/2008 til 09/2008, CLK-class (C209 W209) from 06/2004, G-model (G463) from 04/2007 til 08/2008, GL-class (X164) til 06/2008, ML-class (W164) til 06/2008, R-class (W251) til 06/2008, Sprinter, Viano, A-class (W169) from 07/2008, B-class (W245) from 07/2008 til 10/2011, CLS-Coupe (W219) from 04/2008 til 12/2010, E-class (W211) from 06/2008 til 03/2009, G-model (G463) from 09/2008, GL-class (X164) from 07/2008, ML-class (W164) from 07/2008 til 10/2011, R-class (W251) from 07/2008, SL-class (R230) from 04/2008, SLK-class (R171) from 04/2008 til 02/2011, Viano, C-class (W204) from 03/2007 til 02/2011, CLC-class (CL203) from 09/2008, GLK-class (X204) from 09/2008, SLS (C197) from 03/2010, E-class (W212) from 04/2009 til 05/2011, E-class Coupe (W207) from 05/2009 til 05/2011, CLS-Coupe (C218) from 01/2011 til 05/2011, B-class (W246) from 11/2011, C-class (W204) from 03/2011, C-class Coupe (C204) from 06/2011, E-class (W212) from 06/2011, E-class Coupe (C207) from 06/2011, CLS-Coupe (C218) from 06/2011, GLK-class (W204) from 01/2011, ML-class (W166) from 11/2011, SLK-class (R172) from 03/2011, SL-class (R231) from 2012, VW Crafter

Navigation

Comand APS NTG2/NTG2.5/NTG4-204/NTG4-212,
Comand Online NTG 4.5

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Vehicles with NTG2/NTG4-xxx	ON	OFF	OFF	OFF	OFF	OFF
Vehicles with NTG2.5/NTG4.5	OFF	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
● Red/Blue	+12Volt Permanent 15
● Brown	Ground Pin 12
● Brown/Red	CAN HIGH Pin 11
● Brown	CAN LOW Pin 9



**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.**

On vehicles with **NTG2/NTG4-2xx** the video-in-motion function is activated permanently without disturbing the navigation performance.

On vehicles with **NTG2.5/NTG4.5** select the “navigation level” on the instrument and press the “hang-up”-button on the steering-wheel for more than 3 seconds to activate/deactivate the video-in-motion function. When the ignition is off, the video-in-motion interface will be automatically disabled.



Note: *As long as the video-in-motion function is activated, the **navigation** of the command will NOT be working!*

Vehicles with Mercedes Benz NTG 3 and NTG 3.5



Place of installation is in the centre console behind the DVD unit.

Compatible vehicles

Mercedes Benz CL-class (C216) from 01/2006 til 05/2009, S-class (W221) from 10/2005 til 05/2009, S-class (W221) from 06/2009, CL-class (C216) from 06/2009 with Dual-View

Navigation

Comand APS NTG 3 and NTG 3.5

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	ON	ON

Cable colour	Assignment
● Yellow/White	CAN-HIGH Pin 1
● Yellow	CAN-LOW Pin 11

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

The video-in-motion function is activated permanently without disturbing the navigation performance.

Porsche with PCM 2.1



Place of installation is at the back side of the navigation unit.

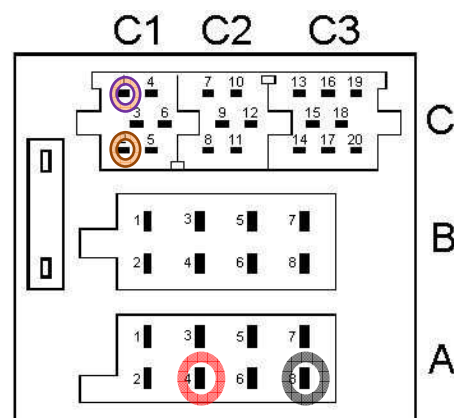
Compatible vehicles Porsche Cayenne E1

Navigation PCM 2.1

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
● Red	+12V Dauerstrom Pin 4
● Black	Ground Pin 8
● Orange/Purple	CAN HIGH Pin 1 (Kammer C1)
● Orange/Brown	CAN LOW Pin 2 (Kammer C1)

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



The video-in-motion function is activated permanently without disturbing the navigation performance.

Porsche with PCM 3.0 and PCM 3.1



Place of installation is at the back side of the navigation unit.

Compatible vehicles Cayenne E1, 911, Boxster, Cayman, Cayenne E2, Panamera

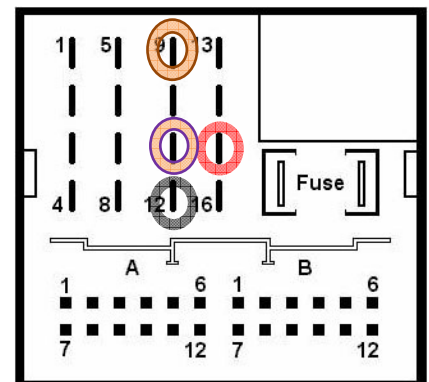
Navigation PCM 3.0 and 3.1

Limitations
Internal DVD video cannot be watched!

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Vehicles without rear-view camera or with after-market rear-view camera	ON	OFF	OFF	OFF	ON	ON
Vehicles with factory rear-view camera	ON	ON	OFF	OFF	ON	ON

Cable colour	Assignment
● Red	+12V Permanent Pin 15
● Black	Ground Pin 12
● Orange/Purple	CAN HIGH Pin 11
● Orange/Brown	CAN LOW Pin 9

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



The video-in-motion function is activated permanently without disturbing the navigation performance.

Volvo with RTI 2011



Place of installation is at the back side of the monitor.

Compatible vehicles

Volvo S-series, V-series, XC60

Navigation

RTI 2011

Limitations

Vehicles with lane pilot, distance assistant and city safety system

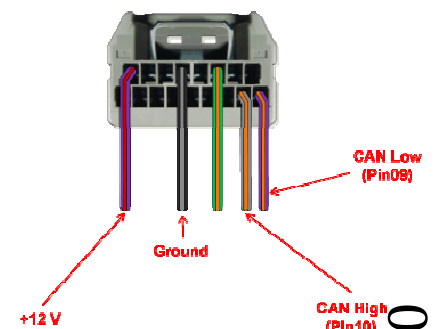
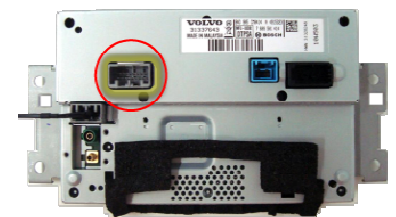
The included green cable is used to activate the video-in-motion function (+12V = activated).

Lane pilot, distance assistant and city safety system do **not** work while TV-free is activated!

Fahrzeug/ Navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Vehicles WITHOUT extra equipment (lane pilot, distance assistant, city safety system)	ON	OFF	OFF	OFF	ON	ON
Vehicles WITH extra equipment (lane pilot, distance assistant, city safety system)	OFF	OFF	OFF	OFF	ON	ON

Cable colour	Assignment
●● Purple/Red	+12V Permanent
●● Black/Grey	Ground
●● Grey/Orange	CAN HIGH Pin 10
●● Purple/Orange	CAN LOW Pin 09

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



On **vehicles without extra equipment** and Dip1 to ON the video-in-motion function is activated permanently without disturbing the navigation performance.

On **vehicles with extra equipment** and Dip1 to OFF the included green cable is used to activate the video-in-motion function.

Connect a switch to the green cable and connect the green cable to +12V ACC.

- +12V = TV-Free is activated
- 0V = TV-Free is not activated

Note: *As long as the video-in-motion function is activated, the navigation will NOT be working!*

Vehicles with VW MFD2/RNS2 und Skoda Nexus



Place of installation is at the back side of the navigation unit.

Compatible vehicles

VW Touareg; Golf 5, Touran, T5, Passat from year 2006, Caddy Live, Skoda Octavia 2 and other vehicles

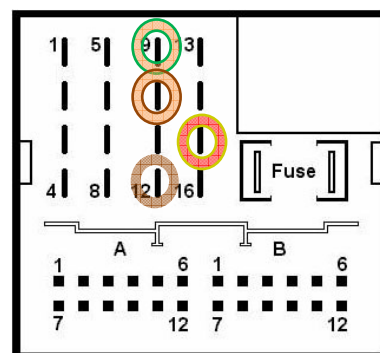
Navigation

VW MFD2/RNS2, Skoda Nexus

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
● Red/Yellow	+12V Permanent Pin 15
● Brown	Ground Pin 12
● Orange/Green	CAN HIGH Pin 9
● Orange/Brau	CAN LOW Pin 10

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



The video-in-motion function is activated permanently without disturbing the navigation performance.

Vehicles with VW RNS510/810, Skoda Columbus and Seat Trinax



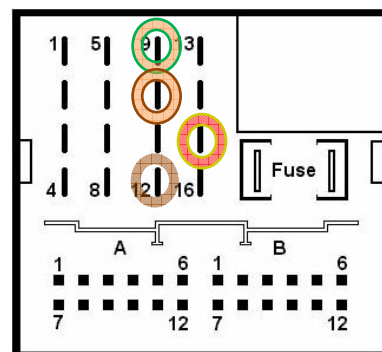
Place of installation is at the back side of the navigation unit.

<i>Compatible vehicles</i>	VW Touareg, T5, Touran, Golf 6 and other vehicles
<i>Navigation</i>	VW RNS510 and 810, Skoda Columbus, Seat Trinax

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	ON	OFF	OFF	OFF	OFF	OFF

Cable colour	Assignment
● Red/Yellow	+12V Permanent Pin 15
● Brown	Ground Pin 12
● Orange/Green	CAN HIGH Pin 9
● Orange/Brau	CAN LOW Pin 10

No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given information must be verified by the installer.



The video-in-motion function is activated permanently without disturbing the navigation performance.

Vehicles with VW, Skoda MIB High



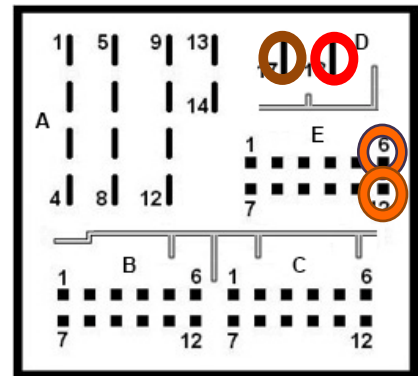
Place of installation is at the back side of the navigation unit

<i>Compatible vehicles</i>	Golf 7, Octavia 3
<i>Navigation</i>	MIB High – Discover Pro, Columbus

Vehicle/navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
MIB High	ON	OFF	OFF	OFF	ON	ON

Cable colour	Assignment
● Red	+12V permanent Pin 18
● Brown	Ground Pin 17
● Orange/Violet	CAN HIGH Pin 6
● Orange/Brown	CAN LOW Pin 12

**No liability for vehicle wire colors and pin definition!
Possible changes by the vehicle manufacturer. The given
information must be verified by the installer.**



The video-in-motion function is activated permanently without disturbing the navigation performance.

3. Specifications

Operation voltage	10.5 – 14.8V
Stand-by power drain	<2mA
Operation power drain	~60mA
Power consumption	~0,08W
Temperature range	-30°C to +80°C
Weight	44g
Measurements (box only) W x H x D	76 x 27 x 54 mm

