

C1C-M
10/11/15/20/21/31/36/60

CARAUDIO-SYSTEMS

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CARAUDIO SYSTEMS

Safety instructions:

1. Read through mounting guidelines:

Please read through all safety instructions and handling directions intently before installation and start up of the device.

2. Keep mounting guidelines:

Keep the instruction manual and safety instructions for potential further reference.

3. Caution advises:

Please follow all caution advises contained in the mounting guidelines.

4. Water and humidity:

The device should not be operated near water or near a humidity source.

5. Warmness / heat:

The device should not be set up in direct proximity of heat sources (e. g. power amplifier).

6. Electric power supply:

The device should only be operated at a +12 volt vehicle electrical system.

7. Connection / electric power supply:

Use the device only at a +12 volt vehicle electrical system. Make sure to have a proper ground.

8. Intrusion of objects or liquids:

Please make sure that no objects or liquids can intrude the interior of the device! (Danger of short circuit!)

9. Repairs:

You should call on qualified personnel, if:

- a plug or a connector have been damaged
- cables are damaged
- objects have fallen into the device or liquids have intruded it
- the product has been exposed to humidity
- the device doesn't function normally or if significant changes in the operating performance can be observed
- the product/casing has been damaged.

10. Operation:

Start no operation that is likely to distract you for a prolonged time from road traffic or traffic related events – RISK OF ACCIDENT!!!

11. Warranty:

The warranty will cease in case that:

- you open the device or the casing
- you carry out repairs single handed
- you use the device improperly
- the device shows damages caused by external forces or mischievous destructions.

We assume no liability for damages to the vehicle or to people.

Service & Communication:

All our products are manufactured under strict quality control. Each device is being tested before shipment. If nevertheless do occur problems or if you have technical questions, contact us directly under:

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Rheinhorststr. 22
67071 Ludwigshafen am Rhein
Germany
Phone: +49 621 9534417 0
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In addition to constant product update and development related changes the instruction manuals of the devices are constantly edited and kept up to date.

To enable us to provide you with the right information and support for the device you have got at hand please add the following information to every inquiry:

Date of purchase, your name and address, item number and the type of your vehicle.

Shipment:

- Interface
- Mounting guidelines

Product description:

Article:

C1C-M10 /11/15 /20/21/31/36/60

Function:

Multimedia interface based on optical fiber technology. This interface enables the connection of an external video source (e.g. DVD Player, DVB-T Tuner) to display-based navigation systems installed in Mercedes, Porsche and BMW manufactured cars. The interface allows controlling the connected video source using the “iDrive“ (BMW) or navigation system controls.











Cinch allocation on the interface box:



Plugs:	Allocation:
● Yellow:	VIDEO-IN (FBAS-Signal)
● Red:	AUDIO-IN right
● Black:	AUDIO-IN left



Additional cable kits:

Navigation system-specific cable kits:

	Interface	Cable Kit
MERCEDES	C1C-M10 With NTG1: E-Class W211, CLS W219 With NTG2: C-Class W203 as of 4/04, A-Class W169, B-Class W245, CLK W209 as of 4/04, R-Class W251, M-Class W164, GL X164,	C1C-MBN2 
MERCEDES	C1C-M11 With NTG2.5: A-Class W169, B-Class W245, CLK W209, R-Class W251, M-Class W164, GL X164, E-Class W211, CLS W219	C1C-MBN25 
RANGE ROVER	C1C-M15 Vogue, Sports, Discovery 3	C1C-MBN2 
PORSCHE	C1C-M20 PCM 2.1 System: Cayenne	C1C-MBN2 
PORSCHE	C1C-M21 PCM 3.0 System: Cayenne, 911	C1C-PCM30 
BMW with original TV-Tuner	C1C-M31 Navigation Professional (CCC): 1th(E87), 3th(E90), 5th(E60), 6th(E62), X5(E70), 7th(E65)	C1C-BMW01 
BMW without original TV-Tuner	C1C-M31 Navigation Professional (CCC): 1th(E87), 3th(E90), 5th(E60), 6th(E62), X5(E70), 7th(E65)	C1C-BMW02 
BMW with original TV-Tuner	C1C-M36 Navigation Professional (CIC): 1th(E87), 3th(E90), 5th(E60), 6th(E62), X5(E70), 7th(E65)	C1C-BMW01 

<p>BMW without original TV-Tuner</p>	<p>C1C-M36 Navigation Professional (CIC): 1th(E87), 3th(E90), 5th(E60), 6th(E62), X5(E70), 7th(E65)</p>	<p>C1C-BMW02</p> 
<p>Jaguar</p>	<p>C1C-M60 Touchscreen Navigation : XF</p>	<p>C1C-JAG</p> 

CARAUDIO SYSTEMS

Video device-specific cable kits:

Manufacturer, Type	Cable Kit
DVD Alpine RUE – 4201, DVD Alpine RUE – 4158, TUE-T150DV, Analog-TV Alpine TUE-T112P V-HUB VPA-B222R Alpine Radio, V-HUB VPA-B222R Alpine DVD	STA-AL25 
DVB-2007, DVBT Eastern SE863-T, DIETZ - 1491	STA-D2007 
DVBT NL, SENERGY, C-KO DVBT-1080, AMPIRE DVBT-200 Axion DVBT 500	STA-NL 
DVB-ALPINE	STA-SV4 
Analog-TV TRT-003	STA-SV6 
DVD-SAN	STA-SV7 
DVB-2008, DVB-HDIN, TRT400	STA-SV8 
DVD-CKO DVC10, DVDC CKO MPC6, DVD-PYLE, DVD-VEBA, DVD-PS, ZENEC, RC-03, DVD Changer CKO- DVC 6M , Yamakawa DVD-Changer, DVD 1/2 DIN (NO NAME), ZENEC ZE-080	STA-UNI 
DVD-USB, AMPIRE DVB-T100, I-POD® V-LINK, DIETZ DVD – 85700/AIV, DVP-1000M, MP410, MP412, AD212U, DVP-1000M, DVP-900HD, C-KO 412, DVD Axion VDV-402, DVD Elite ELT-900XU Novosonic	STA-USB 
DVBT Quantum QTM10	STA-QTM10 

Y- Cable Kit:

This optional adapter enables the parallel connection of the IR- receiver of the respective video source with a mini-jack connection and the Multimedia interface. The adapter also allows to combine the controls of C1C-Mple video sources.

STA-Y35MM



Technical data:

Voltage supply:	12V DC
Voltage-operating capacity:	10,5 – 14,8 V
Standby current:	7mA
Operating current:	120mA
Power input:	1,8W
Temperature range:	- 30°C up to + 80°C
Weight:	95g
Measurements W x H x D:	90 x 35 x 65 mm

The product is designed for automotive use and therefore has a life span of at most 10 years.



We wish you a lot of fun with your new device and thank you for deciding in favor of our product.

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MS-MBN2

CARAUDIO-SYSTEMS

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CARAUDIO SYSTEMS

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Date of purchase, your name and address, item number and the type of your vehicle.

Shipment:

- Cable kit MS-MBN2
- Mounting guidelines

iPod® is a registered trademark of Apple Computer, Inc.

Product description:

Article:
Function:

MS-MBN2

Cable kit for Multimedia Interface “MULTI10” / “MULTI15” / “MULTI20” for use in conjunction with the following systems:



Mercedes NTG1:

- E-Class W211, CLS W219 (with video-fakra plug)

Mercedes NTG2:

- A-Class W169, B-Class W245
- C-Class W203 up to 4/2004
- R-Class W251, M-Class W164
- CLK W209 , GLX164

Range Rover:

- Vogue , Sports , Discovery from model 2006

Porsche:

- Cayenne PCM 2.1

Connection assignment of the cable kit:

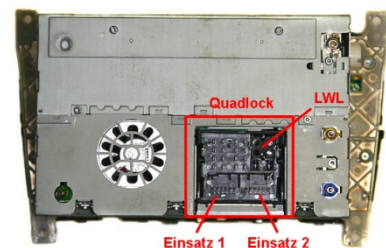
Cable color/Connector:	Connector/Assignment:
● Red:	+12V DC
● Black:	GND
3,5mm Jack Socket:	Control
Fakra-Green:	Video-Line

Installation of cable kit with MULTI10:

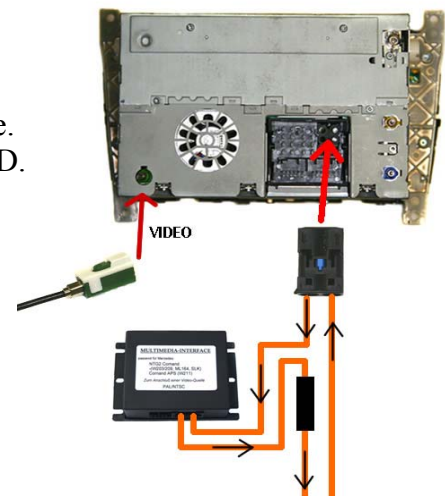
Instructions for Mercedes W169, W245, W203, W209, W251, W164 with NTG2 System:

Warning: Do not install interface while ignition is turned on.

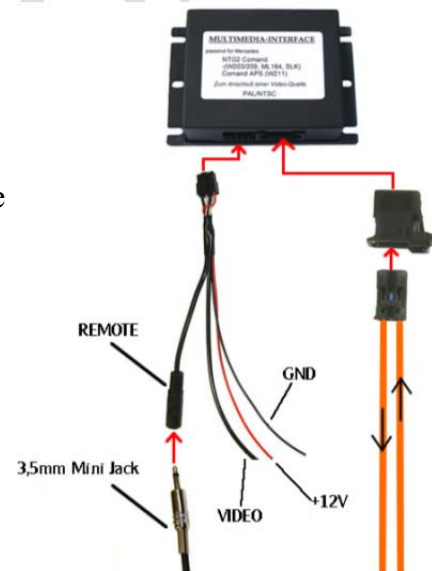
1. Remove all covers around the COMAND.
2. Remove the 4 screws attaching the COMAND to the center console and remove it carefully.



3. Disconnect the original Quadlock-connector from the device. Connect the green Fakra-plug (Video-Line) to the COMAND. Remove one of the two optical cables from the original Quadlock-connector and connect it to the enclosed LWL-connector. Connect the second optical cable to the original Quadlock-connector. Pay attention to the directional arrows as shown in the picture on the right.



4. Connect the black wire of the cable kit to ground and the red wire to 12V plus. Connect the corresponding control cable (e.g. „STK-AL25“ for DVD Alpine devices) to the jack socket. Additionally, the available Y-adapter „CABLE-415“ (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself. Furthermore, a second Y-adapter may be used for parallel control of an additional video source if the adapter is connected between the jack socket of the cable kit and the corresponding control cable.



5. Connect the three Cinch sockets of the interface to the video source using a Video / Audio Cinch cable (not included). Reconnect the original Quadlock- connector to the COMAND.



6. Re-attach system to center console.

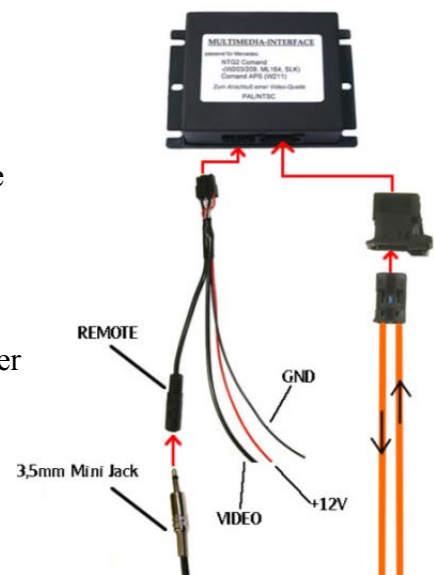
Instructions for Mercedes W211, W219 with NTG1 system:

Warning: Do not install interface while ignition is turned on.

1. Remove all covers below the COMAND.
2. Loosen the two screws attaching the COMAND to the center console and carefully extract it.
3. Disconnect the original Quadlock-connector from the device. Connect the green Fakra-plug (Video-Line) to the COMAND. Remove one of the two optical cables from the original Quadlock-connector and connect it to the enclosed LWL-connector. Connect the second optical cable to the original Quadlock-connector. Pay attention to the directional arrows as shown in the picture on the right.



4. Connect the black wire of the cable kit to ground and the red wire to 12V plus. Connect the corresponding control cable (e.g. „STK-AL25“ for DVD Alpine devices) to the jack socket. Additionally, the available Y-adapter „CABLE-415“ (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself. Furthermore, a second Y-adapter may be used for parallel control of an additional video source, provided that the adapter is connected between the jack socket of the cable kit and the corresponding control cable.



5. Connect the three Cinch sockets of the interface to the video source using a Video / Audio Cinch cable (not included). Reconnect the original Quadlock- connector to the COMAND.



6. Re-attach system to center console.

Function and controls (Mercedes):

Pushing the “Video“ button activates the AV-input of the COMAND.
 Prolonged pushing (2 Sec.) the “1“ and then the “*” button activates the device channel input.
 Input now device-specific control selection requires entering a two-digit number (e.g. “01“ denotes controls for the DVD USB Player) followed by pushing the “OK“ button.

Pushing the “5” button for a prolonged time switches between device controls.

For a detailed button assignment see page 16/17.



Device RC Codes:

Model	RC Code:
DVD USB, MP410, MP412, AD212U, DVP-1000M, DVP-900HD	1
DVBT2007, Dietz 1491/V	2
AMPIRE DVB-T100	3
DVB2008, TRT400	4
DVDC CKO DVC10	5
DVD-Changer CKO- DVC 6M , Yamakawa DVD-Changer	6
DVBT NL, SENERGY, C-KO DVBT-1080, Axion DVBT 500	7
DVD ADJQ-DVDRD, PYLE PLTD24, Veba, Carmedien CM06	8
DVD 1/2 DIN (NO NAME)	9
DVD Alpine RUE - 4201	10
DVD Alpine RUE - 4158;TUE-T150DV	11
DVBT Eastern SE863-T	12
iPod® Vlink	13
DVBT ZENEC ZE-DVBT25	14
V-HUB VPA-B222R Alpine Radio	15
V-HUB VPA-B222R Alpine DVD	16
DVD Necvox DVA-3206	17
Analog-TV Alpine TUE-T112P	18
Analog-TV TRT-003	19
BOA-DVD 85700 /AIV, C-KO 412	20
DVD Visteon VXM2200	21
DVBT Quantum QTM10	22
DVD Elite ELT-900XU Novosonic	23
DVDC CKO MPC6	24
DVD-TIXXON (No Name)	25

Model	RC Code:
HD-Player 3,5“ MVIX MV-5000U	26
DVD Axion VDV-402	27
DVD Bullit CDVD12	28
DVD ZENEC ZE-080	29
DVBT Ampire DVBT200	30
DVBT&DVD USB Digitaldynamic Multiplayer	31
iPod Alpine KCE-425I	32
A-TV TVT-765	33
Emperor Mini DVBT	34
DVBT Carmedien DVB423	35
DVBT M-DTV-201-0	36
DVDC Pioneer XDV-P6 (Reserviert)	37
DVD Phonocar VM 015 (USB/SD)	38
Hirschmann DVBT / Visteon DVBT	39
HD Microlab - Pocket X Div 25 (2,5 Zoll HD P. Tixxon)	40
DVB-T D80	41
DAS / Dietz 1492 DVB-T	42
DVBT Ampire DVBT50	43
NavNGo	44
TRI1100 DVB-T (USBHDMI)	45
DVD500UX	46
HD DVB-T MPEG-4 VCAN (HDMI, USB)	47
DVD Phonocar VM 015 (USB/SD) – Klon	48
ZEMEX DVBT D90 (DVB600)	49
Alpine KCE-635 (USB Player)	50
DVB 288 CS (MPG4 DVB-T)	51
DVBT Carmedien DVB423 (2 Generation)	52

Installation of cable kit with MULTI15:

Instructions for Ranger Rover Vogue, Sports, Discovery 3:

Warning: Do not install interface while ignition is turned on.



Discovery 3



Vogue



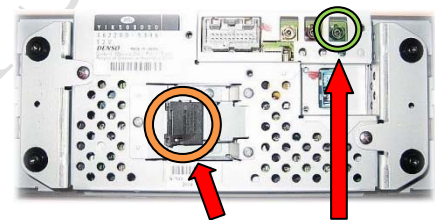
Sports

1. Extract the touch screen monitor from the center console.

2. Connect the green Fakra connector (Video-Line) of the cable kit MS-MBN2 directly to the monitor.

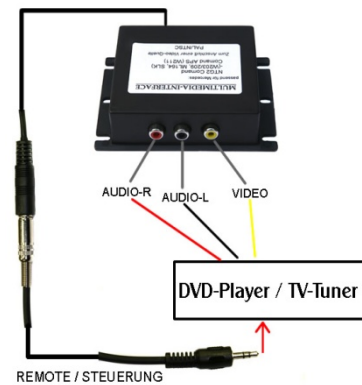
3. Remove one of the two optical cables from the original connector (please pay attention to the directional arrows) and insert it into the supplied LWL-connector. Connect the second optical cable to the original connector.

4. Connect the black wire of the cable kit to ground and the red wire 12V permanent plus. Connect the corresponding control cable (e.g. "STK-AL25" for DVD Alpine devices) to the jack socket. The optionally available Y-adapter "CABLE-415" (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself. Furthermore, a second Y-adapter may be used for parallel control of an additional video source, provided that the adapter is connected between the jack socket of the cable kit and the corresponding control cable.




5. Use a Video / Audio Cinch cable (sold separately) to connect the video source to the three Cinch sockets of the interface.

6. Re-attach the system to the center console.




Function and controls (Range Rover):

Pushing the “TV“ field in the main menu displays the TV system layer.

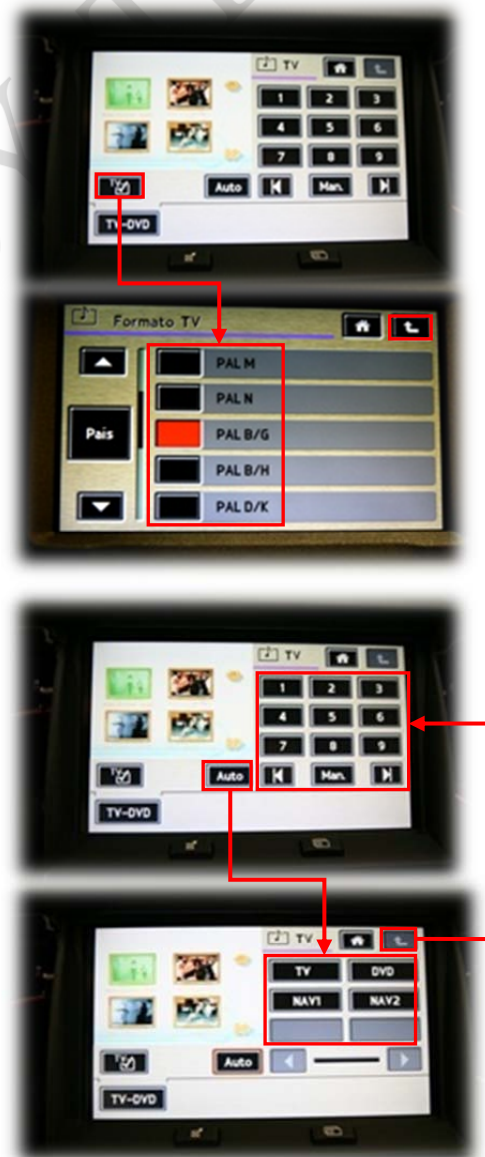
Once a TV system was selected, exit the current layer by pushing the ““ symbol

Pushing the “Auto“ field switches to the control selection layer. It allows parallel access of up to two devices.

Return to the main menu by pushing the ““ symbol.

The numeric array together with two arrow fields displayed in the main menu are used to remotely control the video source(s).

For detailed controls refer to the chart below.



Button Assignment

●—● RANGE ROVER VOGUE, SPORTS, DISCOVERY 3 ●—●													
Model	1	2	3	4	5	6	7	8	9	<	>	<<	>>
DVD / DVDC PLAY-ER	SOURCE	UP	MENU/PBC	LEFT	ENTER/OK	RIGHT	STOP	DOWN	PLAY/PAUSE	TRACK -	TRACK +	ANGLE / DISC	-
DVB-T TUNER	AV / DVB	UP	MENU	LEFT	OK	RIGHT	FAV	DOWN	EXIT	CH -	CH +	EPG	-
ANALOG TUNER	MODE	VOL +	POWER	CH -	ADJUST	CH +	FM	VOL -	DISPLAY	CH -	CH +	SCAN	-
COMBI DVD/DVB-T	SOURCE	UP	MENU/PBC	LEFT	ENTER	RIGHT	STOP	DOWN	PLAY/PAUSE	TRACK -	TRACK +	AUTO SCAN	-

Please note, that the |< and >| buttons on the multi function steering wheel are only supported in the Range Rover Vogue

Note: Depending on the type of the video source to be connected, the interface needs to be pre-configured by its manufacturer to enable video control functions.

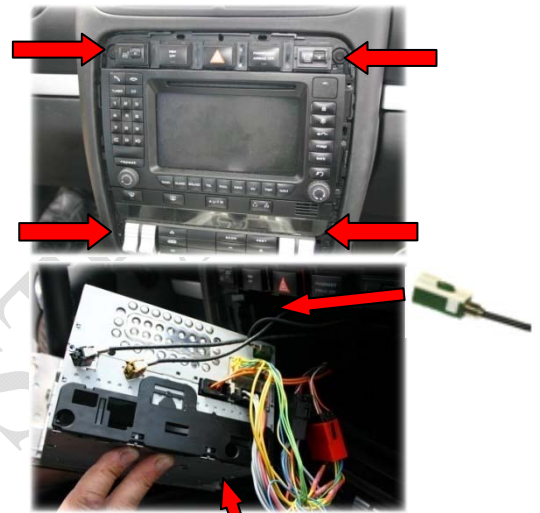
CARAUDIO SYSTEMS

Installation of cable kit with MULTI20:

Instructions for Porsche Cayenne PCM 2.1 system:

Warning: Do not install interface while ignition is turned on.

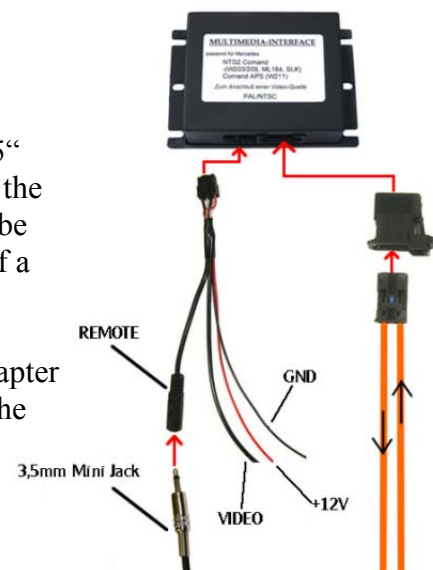
1. Carefully remove the decorative cover surrounding the navigation system using appropriate tools. Loosen the 4 TORX-screws as marked in the picture on the right and extract the device from the center console.



2. Disconnect all plugs from the device. Connect the green Fakra-plug (Video-Line) to the PCM 2.1 system. Remove one of the two optical cables from the original connector and connect it to the enclosed LWL-connector. Connect the second optical cable to the original connector. Pay attention to the directional arrows as shown in the picture on the right.



4. Connect the black wire of the cable kit to ground and the red wire to 12V plus. Connect the corresponding control cable (e.g. „STK-AL25“ for DVD Alpine devices) to the jack socket. Additionally, the available Y-adapter „CABLE-415“ (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself. Furthermore, a second Y-adapter may be used for parallel control of an additional video source, provided that the adapter is connected between the jack socket of the cable kit and the corresponding control cable.



5. Connect the three Cinch sockets of the interface to the video source using a Video / Audio Cinch cable (not included). Reconnect the original Quadlock- connector to the PCM 2.1 system.



6. Re-attach system to center console.

Function and controls (Porsche):

To be able to use the controls, station buttons 0-9 of the PCM 2.1 system need to be assigned the corresponding control channels. Pushing the “AV” button activates TV input.



Pushing the right knob accesses the TV menu and enables the selection of the memory layers (AS, A or B): Layer “A” needs to be selected.



Station buttons 0-9 are assigned to channel numbers at the „channel input“ level:

1. Use the right knob to select the channel number (Ch 1)
2. Push the right knob briefly
3. Push the „back arrow“ button to return to previous menu
4. Push station button „1“ for 2 seconds (confirmed by a sound)

- Repeat this procedure until all station buttons have been assigned to channel numbers



Assign station buttons as indicated:

Station Btn.:	1	2	3	4	5	6	7	8	9	0
Channel Nr.:	01	02	03	04	05	06	07	08	09	10



Device Assignment:

Access the menu level “INFO“ → “VIDEOTEXT“ in order to select controls for a specific device.



Enter the three digit device RC Code using the keypad (e.g. for DVP-900HD ”101”) in order to store RC code.



Device RC Codes:

Model	RC Code:
DVD USB, MP410, MP412, AD212U, DVP-1000M, DVP-900HD	101
DVBT2007, Dietz 1491/V	102
AMPIRE DVB-T100	103
DVB2008, TRT400	104
DVDC CKO DVC10	105
DVD-Changer CKO- DVC 6M , Yamakawa DVD-Changer	106
DVBT NL, SENERGY, C-KO DVBT-1080, Axion DVBT 500	107
DVD ADJQ-DVDRD, PYLE PLTD24, Veba, Carmedien CM06	108
DVD 1/2 DIN (NO NAME)	109
DVD Alpine RUE - 4201	110
DVD Alpine RUE - 4158;TUE-T150DV	111
DVBT Eastern SE863-T	112
iPod® Vlink	113
DVBT ZENEC ZE-DVBT25, TRT500	114
V-HUB VPA-B222R Alpine Radio	115
V-HUB VPA-B222R Alpine DVD	116
DVD Necvox DVA-3206	117
Analog-TV Alpine TUE-T112P	118
Analog-TV TRT-003	119
BOA-DVD 85700 /AIV, C-KO 412	120
DVD Visteon VXM2200	121
DVBT Quantum QTM10	122
DVD Elite ELT-900XU Novosonic	123
DVDC Cko MPC6	124
DVD-TIXXON (No Name)	125
HD-Player 3,5" MVIX MV-5000U	126
DVD Axion VDV-402	127
DVD Bullit CDVD12	128
DVD ZENEC ZE-080	129

Model	RC Code:
DVBT Ampire DVBT200	130
DVBT&DVD USB Digitaldynamic Multiplayer	131
iPod Alpine KCE-425I	132
A-TV TVT-765	133
DVBT Emperor DTR-1203	134
DVBT Carmedien DVB423	135
DVBT M-DTV-201-0	136
DVD 600 (1/2 DIN USB/SD)	137
DVD Phonocar VM 015 (USB/SD)	138
Hirschmann DVBT / Visteon DVBT	139
HD Microlab - Pocket X Div 25 (2,5 Zoll HD P. Tixxon)	140
DVB-T D80	141
DAS / Dietz 1492 DVB-T	142
DVBT Ampire DVBT50	143
NavNGo	144
TRI1100 DVB-T (USBHDMI)	145
DVD500UX	146
HD DVB-T MPEG-4 VCAN (HDMI, USB)	147
DVD Phonocar VM 015 (USB/SD) – Klon	148
ZEMEX DVBT D90 (DVB600)	149
Alpine KCE-635 (USB Player)	150
DVB 288 CS (MPG4 DVB-T)	151
DVBT Carmedien DVB423 (2 Generation)	152

Button Assignments for PCM2.1:

	●—● PCM2.1 ●—●											
Modell	1	2	3	4	5	6	7	8	9	0	<<	>>
DVD PLAYER	PLAY	↑	STOP	←	ENTER	→	PBC	↓	SETUP	AV	TRACK-	TRACK+
DVD CHANGER	PLAY	↑	STOP	←	ENTER	→	DISC	↓	SETUP	AV	TRACK-	TRACK+
DVB-T TUNER	SCAN	↑	EPG	←	OK	→	EXIT	↓	MENU	AV	CH-	CH+
I-POD® CONTROL	PLAY/ PAUSE	↑	POWER	←	ENTER	→	SHUFFLE	↓	LIGHT	EJECT	TRACK-	TRACK+
ANALOG TUNER	SCAN	VOL+	FM	CH-	MODE	CH+	MUTE	VOL-	MODE	DISPLAY	CH-	CH+

Button Assignments for NTG1 / NTG2:

	●—● COMAND NTG 1/2 short press ●—●												
Modell	1	2	3	4	5	6	7	8	9	0	*	<<	>>
DVD PLAYER	PLAY	↑	STOP	←	ENTER	→	PBC	↓	SETUP	AV	RC CODE	TRACK-	TRACK+
DVD CHANGER	PLAY	↑	STOP	←	ENTER	→	DISC	↓	SETUP	AV	RC CODE	TRACK-	TRACK+
DVB-T TUNER	SCAN	↑	EPG	←	OK	→	EXIT	↓	MENU	AV	RC CODE	CH-	CH+
I-POD® CONTROL	PLAY/ PAUSE	↑	POWER	←	ENTER	→	SHUFFLE	↓	LIGHT	EJECT	RC CODE	TRACK-	TRACK+
ANALOG TUNER	SCAN	VOL+	FM	CH-	MODE	CH+	MUTE	VOL-	MODE	DISPLAY	RC CODE	CH-	CH+

	●—● COMAND NTG 1/2 long press ●—●										
Modell	1	2	3	4	5	6	7	8	9	0	
DVD PLAYER	Set RC1	Set RC2	----	DISPLAY	SWITCH AV1/AV2	AUDIO	SUB	----	----	POWER	
DVD CHANGER	Set RC1	Set RC2	----	DISPLAY	SWITCH AV1/AV2	AUDIO	SUB	----	----	POWER	
DVB-T TUNER	Set RC1	Set RC2	----	SIGNAL	SWITCH AV1/AV2	AUDIO	LANG	----	----	POWER	
I-POD® CONTROL	Set RC1	Set RC2	----	----	SWITCH AV1/AV2	MUTE	----	----	----	POWER	
ANALOG TUNER	Set RC1	Set RC2	----	DISPLAY	SWITCH AV1/AV2	FM	MUTE	----	----	POWER	



We wish you a lot of fun with your new device and thank you for deciding in favor of our product.

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