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Please read this information carefully and follow all the instructions outlined below. This will ensure reliable operation and durability of your unit.

Keep the packaging and operating instructions in a safe place in order to pass them on to a subsequent owner in the event of selling the unit at a later date.






Notes on operating instructions

The following reading aids are used to simplify these operating instructions:



-  asks you to perform an action.
-  shows the unit's reaction.
-  provides extra info.
- identifies a list.

 **Safety instructions and warnings contain important information for safe use of the unit. Failure to observe this information may result in material damage or personal injury. Therefore, please observe this information with particular care.**

Safety instructions

-  **Make all inputs via the remote control only when the vehicle is stationary, or have the passenger make them. Otherwise, you may endanger the occupants and other road users.**
-  **Please make certain that all persons using your multimedia system have access to this manual, and that they read the instructions and suggestions concerning system operation prior to use.**
-  **Only look at the monitor if it is safe to do so. Find a suitable place to stop should you need to look at the screen for a longer period of time.**
-  **For safety reasons, the driver should not watch television or operate the multimedia system while driving. Please note that it is illegal in certain countries to watch or to operate the television when driving.**
-  **When setting the volume, please make sure that traffic noises (horns, sirens, emergency vehicles, etc.) are still audible.**

Class 1 laser product

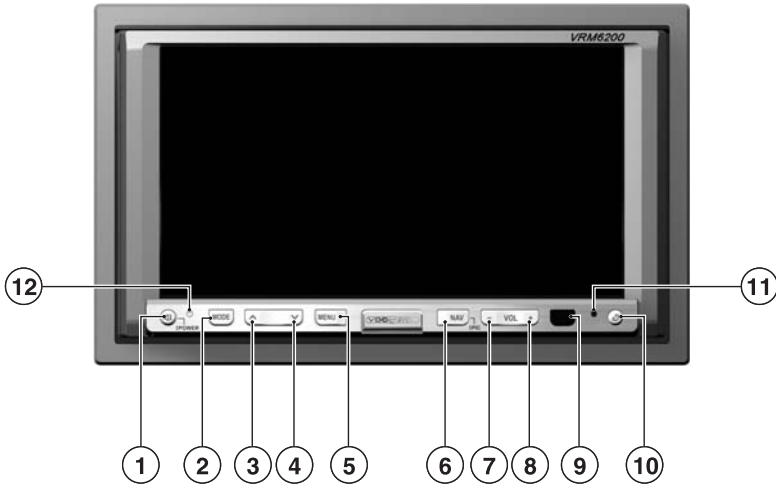
-  **CAUTION: Any inappropriate use of the device may expose the user to invisible laser rays which exceed the limits for Class 1 laser products.**
-  **Do not attempt to open or repair the device yourself. This work should be performed by an authorised service agent.**

**CLASS 1
LASER PRODUCT**

Control elements

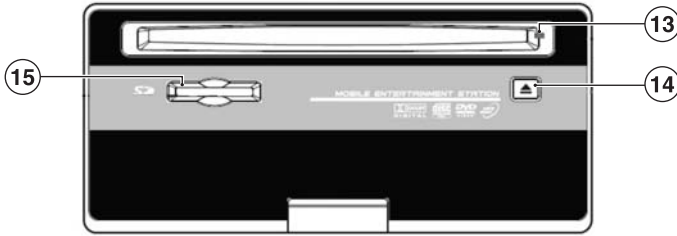
The functions of the VRM 6200 can be accessed using the buttons on the TFT monitor or directly via the touchscreen. In addition, the functions for the rear zone can be controlled using the supplied remote control when there is a rear monitor connected.

■ Control elements on the TFT monitor



1. **MUTE / POWER** Muting on/off: Press briefly when the unit is switched on.
Switch on unit: Press briefly when the unit is switched off.
Switch off unit: Press and hold when the unit is switched on.
2. **MODE** Source switching
3. **^** Next station/title/menu item
4. **v** Previous station/title/menu item
5. **MENU** Call up main menu.
6. **NAV** Switch to navigation system (if connected).
7. **VOL -** Reduce volume
8. **VOL +** Increase volume
9. Infrared receiver
10. **Swivel** Press briefly: Open/close monitor fully.
Press and hold: Swivel monitor until the desired viewing angle is reached.
11. Microphone for the Bluetooth® hands-free unit
12. **RESET** Unit reset: Press using a pointed object.

■ Control elements on the front of the unit



13. Disc indicator: Lights up red when a disc is inserted.
Lights up green when there is no disc inserted.
14. ▲ Load/eject disc.
15. SD card slot

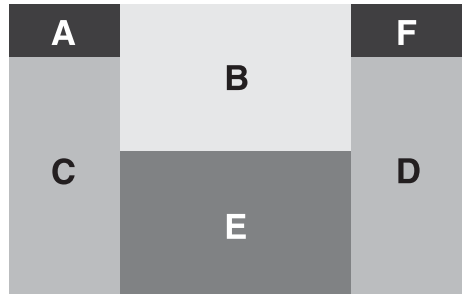
Touchscreen

The VRM 6200 is equipped with a touch-sensitive screen. Many of the unit functions can be controlled using the touchscreen.

■ Function areas

This section describes the function areas of the touchscreen for DVD and VCD playback, display of JPEG images, etc.

- A Back to main menu (MAIN)
- B Displays current playback information
- C Select previous chapter/image
- D Select next chapter/image
- E Display of on-screen control elements (depending on operating mode)
- F During DVD/VCD playback: Displays the 'GOTO' menu directly.



SD card reader

■ Switching to SD card

The built-in SD card reader can be used to play MP3 and WMA audio files. JPEG images can also be displayed on the monitor (see "Displaying JPEG images").

- ✎ Insert an SD card in the SD card reader.
- ✎ Press the **MODE** button on the TFT monitor repeatedly until "SD" is displayed in the upper section of the screen.
- 📖 Instructions for using the SD card menu can be found under "MP3/WMA playback".

Remote control for the rear zone

If there is a rear monitor connected to the multimedia system, the passengers in the rear of the vehicle can control the rear zone functions using the remote control.

- R-SRC** Activate/deactivate rear zone and select playback source for the rear monitor
- 0 ... 9** Number keys: Direct access to title/chapter/track
- 🔇** Muting on/off
- /--** GOTO function for jumping directly to a specific title/chapter or to a specified time during DVD/VCD playback.
- TITLE.** Show DVD title menu.
- ROOT** DVD: Show DVD main menu.
VCD: Activate/deactivate PBC.
- OK** Start/pause playback /
Confirm selection.
- ◀, ▶, ▲, ▼** . Direction keys: Move cursor left/right/up/down
- ▶▶** DVD: Next chapter;
VCD/CD/MP3: Next title
JPEG: Next image
- ◀◀** DVD: Previous chapter;
VCD/CD/MP3: Previous title
JPEG: Previous image
- Stop playback
- ▶||** Start/pause playback
- ZOOM** Set zoom mode
- ◀◀◀** Fast rewind
- ▶▶▶** Fast forward
- ||▶** Slow motion on/off
- 🔄** Switch on REPEAT and select mode
- AUDIO** Select audio language (depends on DVD)
- SUB-T** Select language for subtitles (depends on DVD)
- ANGLE** Select camera angle (depends on DVD)
- A→B** Set start and stop markers and then repeat sequence from A to B



Switching on/off

To switch on the unit:

- ✎ Press the  **POWER** button on the TFT monitor.

To switch off the unit:

- ✎ Press and hold down the  **POWER** button on the TFT monitor, or
- ✎ switch off the ignition.


TFT monitor

■ Opening and closing the monitor

- ✎ Press the  button on the TFT monitor to open or close the monitor.

■ Setting the viewing angle

The viewing angle of the TFT monitor can be set as follows:

- ✎ Press and hold down the  button until the desired viewing angle is attained, or:
- ✎ set the desired viewing angle using the "Screen Tilt" option in the setup menu. See "Setup menu".
- ✎ If the Auto Open function is activated ("AUTO OPEN ON"), the monitor returns to the vertical position after being switched off. The viewing angle originally selected is restored after the monitor is switched on again.


■ Auto Open function

The Auto Open function lets you automatically control the opening and closing of the TFT monitor when switching the unit on/off.

For information on these settings, see "Setup menu".

■ Monitor mechanism

If there is an object blocking the path of the TFT monitor as it is extending, a protective circuit automatically stops the monitor from extending any further.

- ✎ In this case, press the  button on the TFT monitor or switch the unit off and then on again.

■ Setting the display parameters (OSD menu)

- ✎ Press and hold down the **NAV** button on the TFT monitor until the OSD menu for the display parameters appears.
- ✎ Select the desired parameter using the **▲** or **▼** buttons on the remote control.
- ✎ Set the values using the **VOL-** and **VOL+** buttons on the TFT monitor or the **◀** or **▶** buttons on the remote control.
- ✎ For the radio, DVD, SD card reader, iPod, Bluetooth and NAV sources, only the "BRIGHT" parameter (brightness) can be set.

Adjusting the volume

- ☞ Press the **VOL-** or **VOL+** button on the TFT monitor to adjust the volume.
- ✎ If the button is held down, the volume changes continuously.

⚠ When setting the volume, please make sure that traffic noises (horns, sirens, emergency vehicles, etc.) are still audible.

MUTE function

- ☞ Press the **MUTE** button on the TFT monitor.
- 📺 This mutes the unit.
- ☞ Press the **MUTE** button again to deactivate the mute function.
- ✎ The mute function can also be deactivated by adjusting the volume with the **VOL-** or **VOL+** buttons.
- ✎ If the muting signal of a mobile phone is connected to the unit, the unit is automatically muted during a telephone call.

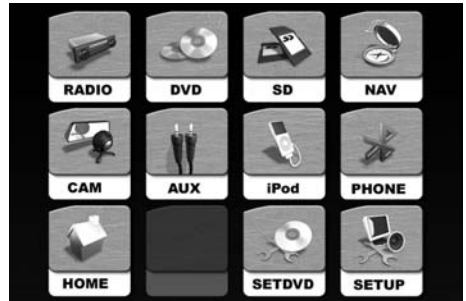
Main menu

The main menu can be called up as follows:

- ☞ Touch area A (top left) on the touchscreen, or
- ☞ press the **MENU** button on the TFT monitor.

The following options are available in the main menu:

- RADIO Switches to radio mode and calls up the radio menu
- DVD Switches to DVD/VCD/CD playback
- SD Calls up the SD card menu
- NAV* Switches to navigation system
- CAM* Switches to reversing camera mode
- AUX* Switches to AUX-IN input mode
- iPod* Calls up the iPod menu
- PHONE* Calls up the Bluetooth menu
- HOME Back to previous menu
- SETDVD Calls up the DVD menu
- SETUP Calls up the setup menu



* Can only be selected when a suitable unit is connected.

Alternative source selection

- ☞ Press the **MODE** button on the TFT monitor repeatedly until the desired source is displayed in the upper section of the screen.
- 📺 The selected source is displayed on the TFT monitor.
- ✎ Sources that are not available or not connected cannot be selected.






Video during driving

For reasons of driving safety, video images are only displayed on the TFT monitor of the multimedia system following selection of one of the video sources ("AUX-IN", "DVD", etc.) when the hand brake is applied.



Reversing camera

If a reversing camera is connected to the multimedia system, the image from the reversing camera appears on the TFT monitor when reverse gear is engaged.

Sound settings

-  Press and hold down the **MENU** button on the TFT monitor until the audio menu is displayed, or
-  on the touchscreen, touch the area in which the audio settings are displayed (e.g. in the RADIO, CDDA, MP3 or iPod menus).
-  On the touchscreen, touch the buttons next to the desired setting (EQ, BASS, TREBLE, etc.) to change the value.
-  You can also choose the desired setting by pressing the **MENU** button on the TFT monitor several times.
You then set the values using the **VOL-** and **VOL+** buttons on the TFT monitor.
-  Touch the **▲** symbol on the touchscreen to quit the menu again.

Function	Adjustment range	Description
EQ	User	Selection of a preset sound style. Under "User" you can set user-specific values for BASS and TREBLE.
	Flat	
	Jazz	
	Pop	
	Classic	
BASS	-7 ... +7	For setting the bass
TREBLE	-7 ... +7	For setting the treble
FADE	-9 ... +9	For setting the volume fade front <-> rear
BAL	-9 ... +9	For setting the volume balance left <-> right
LOUD	off, levels 1-4	For switching the loudness function on/off and setting the intensity

-  Bass and treble settings can only be made if the "User" option is set under "EQ".
-  When the LOUDNESS function is activated, "LOUD" is displayed on the screen along with the selected level.

Rear zone operation

The multimedia system allows two different sources to be played simultaneously if there is an additional monitor connected to the AV output for the rear zone. The rear-seat passengers can control the functions for the rear zone using the supplied remote control. See "Remote control" for information on these functions.

■ Calling up the rear zone menu and selecting the source

☞ Touch the headphone symbol (1) in one of the setup menus to call up the rear zone menu.

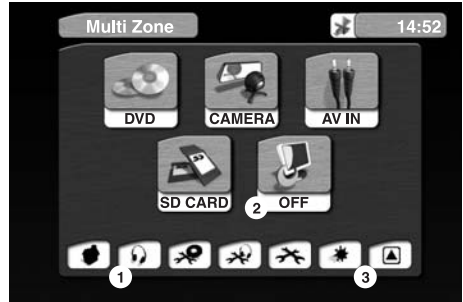
☞ Select the source to be displayed on the rear monitor.

Or:

☞ Press the **R-SRC** button on the remote control to select the desired source.

Or:

☞ Press and hold down the **MODE** button on the TFT monitor to activate the rear zone.



■ Switching off the rear zone

☞ Touch the OFF symbol (2) in the rear zone menu, or

☞ press and hold down the **MODE** button on the TFT monitor.

■ Quitting the rear zone menu

Touch the ▲ symbol (3) in the rear zone menu.

■ Restrictions with multi-zone operation

The DVD and SD card sources cannot be selected simultaneously for the front unit and the rear zone, as the front and rear zones share the same multimedia processor. In this case, the multimedia system always switches to the same source (DVD or SD) for both zones.

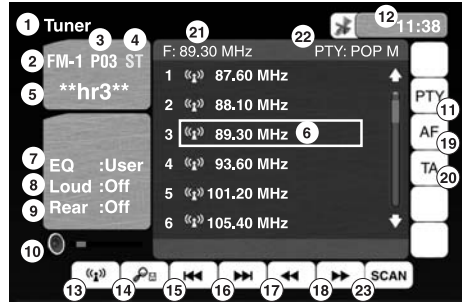
When the DVD or SD card source is selected for the rear zone, the front unit switches to a simplified menu display.

Radio menu

- ☞ On the touchscreen, touch the **RADIO** symbol in the main menu, or
- ☞ press the **MODE** button on the TFT monitor repeatedly until "TUNER" is displayed in the upper section of the screen.
- 🖨 The multimedia system switches to radio mode and the radio menu appears.

The following information and functions appear in the radio menu:

1. Displays the current source.
Touch this area to call up the main menu.
2. Display of the current waveband
3. Display of the current preset station
4. Display for stereo reception
5. Display of the programme name
6. List of stored stations.
Touch briefly: Call up the desired station preset.
Touch for longer (3 seconds):
Store the set station in this preset location.
7. Display of the sound style setting
8. Display of the current loudness setting
9. Display of the selected rear zone operating mode
10. Display of the current volume setting
11. Selection of the programme type (PTY, FM only)
12. Display of the current time
13. Selection of the waveband: FM-1, FM-2, FM-3, AM-1, AM-2
14. Activation of the Auto Store function in the current waveband
15. Search for the previous station with a strong signal
16. Search for the next station with a strong signal
17. Manual search downwards
18. Manual search upwards
19. Activation of automatic retuning (AF, FM only)
20. Activation of traffic announcements (TA, FM only)
21. Display of the current reception frequency
22. Display of the programme type
23. Activation of the scan function (all station memories of the current waveband)



Selecting the waveband

- ☞ Touch the BAND symbol (13) on the touchscreen to change the waveband.
- ☞ The following wavebands are available: FM-1, FM-2, FM-3, AM-1 and AM-2.

Tuning into stations

Stations can be tuned/scanned in a number of ways:

■ Automatic search

- ☞ Touch the ◀◀ or ▶▶ symbol on the touchscreen to tune to the next station with a strong signal in the currently selected waveband.
- ☞ If TA is active, the radio will search only for stations from which traffic announcements can be received.

■ Setting the frequency manually

- ☞ Touch the ▶▶ or ◀◀ symbol on the touchscreen to change the reception frequency incrementally.

Station preset

■ Storing a station

You can store 6 stations for each waveband in preset locations P01 to P06.

- ☞ Tune to the desired waveband and station.
- ☞ Touch the desired preset location in the list for at least 3 seconds to store the selected station in this location.

■ Recalling stored stations

- ☞ Tune to the desired waveband.
- ☞ Touch the desired preset location in the list to call up the desired station.

■ Scanning receivable stations

- ☞ Touch the **SCAN** symbol on the touchscreen to briefly scan all of the stored stations in the current waveband.
- ☞ Touch the symbol again to stop the scanning process.




■ Auto Store (AS)

Activate this function to automatically store up to 6 stations with strong signals in the current waveband.

- ☞ Touch the Auto Store symbol (14) on the touchscreen to start the Auto Store process.
- ☞ All stations manually stored in the preset locations of the current waveband are overwritten.



■ PTY search (only on FM)

This function allows you to search for stations of the desired programme type.

-  Touch the **PTY** symbol on the touchscreen to display the list of available programme types (genres).
-  Select the desired programme type to start a search for a radio station of the selected programme type.
-  PTY is not supported by all RDS stations and is not available in all countries.




■ AF retuning (only in FM):

The radio continuously checks a series of alternate frequencies (AF) for the selected station and automatically chooses the best frequency.

-  Touch the **AF** symbol on the touchscreen to switch the AF function on or off.
-  Deactivate this function only if you hear brief interruptions in transmission or if the unit automatically switches to an undesired station (e.g. to another regional station belonging to the selected programme).

■ Traffic announcements (TA)


Activate this function if you wish to listen to traffic announcements (TA), e.g. during playback of other sources or when the unit is set to mute.

-  Touch the **TA** symbol on the touchscreen to switch the TA function on or off.
-  The automatic search only responds to stations that transmit traffic announcements (TA stations).
-  If the radio has not been tuned to a station with TA, it will automatically search for a station broadcasting traffic announcements.

■ Traffic announcements from other stations – EON

With the RDS function EON (Enhanced Other Networks) you will hear traffic announcements even if the set station does not transmit its own traffic information but is operating on a network with other stations.

If you have activated "TA", stations with EON will be treated like TA stations, i.e. the search will also stop at these stations.

-  When a traffic announcement is made, the unit switches to a traffic information station linked to EON. The programme name of the traffic information station is displayed during the traffic announcement.
After the announcement, the unit returns to the previous programme.

DVD player

■ Supported formats

All 12-cm discs based on the following standards are supported:

- DVD-Video 5 and 9
- DVD-Video 10 and 18 (must be turned over)
- Video CD, Super Video CD
- CD-Audio (CDDA)
- MP3 and WMA files (on DVD+R/RW, DVD-R/RW and CD-R/W)
- JPEG images (on DVD+R/RW, DVD-R/RW and CD-R/W)

■ Formats not supported

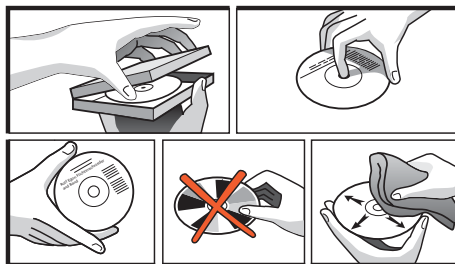
- DVD-RAM
- Open-session DVD+R/RW, DVD-R/RW and CD-R/RW
- CDV
- CD-G
- Kodak Photo CD (previously CDI format)
- DVDs with region codes other than "2" or "0"

Note: As a rule, self-burned CDs are supported. However, depending on the blank disc and burning program used, playback difficulties may arise. CD-R/RW, DVD+R/RW and DVD-R/RW must be closed.

⚠ Do not insert unusually-shaped discs or other objects into the DVD player. If you ignore these recommendations, you risk damaging your unit.

■ Correct handling of DVDs and CDs

- Avoid putting finger marks on the information side of the disc.
- Always store discs in their protective covers.
- Always ensure that discs are clean and dry before inserting them.
- Protect discs from heat and direct sunlight.
- Discs that are dirty, dusty, scratched or deformed can lead to malfunctions.
- Do not add any stickers to the disc.
- Do not scratch the surface of the disc.
- Do not deform discs.



■ Cleaning discs

- Use a soft, dry cloth to wipe the surface.
- Always wipe in a straight line from the inside out to the edge.
- For discs that are extremely dirty, use a soft cloth lightly soaked with isopropanol (isopropyl alcohol).
- Never use solvents such as benzene, thinners or conventional record cleaner. These substances can destroy the disc surface.

Loading a disc

- ✎ Press the **⏏** button on the TFT monitor to open the TFT monitor.
- ✎ Carefully slide the disc into the player's disc slot with the printed side facing upwards until it is drawn in.
- 📺 The player begins playback automatically.

Removing a disc

- ✎ Press the **▲** button on the front of the unit.
- 📺 The disc is ejected.
- ✎ Remove the disc.

■ Resetting the disc mechanism

If it is not possible to remove a disc in the normal way, you can reset the disc mechanism by pressing and holding down the **▲** button. The disc is ejected and the disc mechanism is ready for operation again.

Switching to DVD playback

If a DVD is already inserted in the player:

- ✎ Press the **MODE** button on the TFT monitor repeatedly until "DVD" is displayed in the upper section of the screen.
- Or:

- ✎ On the touchscreen, touch the **DVD** symbol in the main menu.
- 📺 Disc playback begins.









DVD operation using the touchscreen

During playback:

- ✎ Touch function area E (bottom centre) of the touchscreen to display the on-screen control elements.
- ▶/|| Start playback, pause (freeze frame)
- Stop playback
- ◀ Fast rewind
- ▶ Fast forward
- 🔄 Switch on REPEAT and select mode
- A→B Set start and stop markers and then repeat sequence from A to B
- AUDIO** Select dialogue language (DVD) or audio channel (VCD)
- SUB.T** Select language for subtitles
- ☰ Display DVD main menu.






Starting/stopping playback





-  Touch the  symbol on the touchscreen to stop playback.
-  The player stores the current position on the disc.
-  Touch the  symbol to continue playback at the stored position.
-  Touch the  symbol twice to return to the first track/chapter of the inserted disc.
-  The player is now in STOP mode.

■ Video CDs with PBC (playback control)






Video CDs with PBC can be played with or without a menu:

-  Press the **ROOT** button on the remote control to switch between playback with or without PBC.
-  With "PBC ON" the repeat function and the function for direct title selection using the number pad are not available.
-  PBC is automatically deactivated again when random play, scan or fast forward/rewind are activated.





Pause (freeze frame)

-  Touch the  symbol during playback.
-  Touch the  symbol again to continue playback.





Skip chapter/title

-  Touch the  or  symbol during playback, or
-  during playback, touch area C (left) or D (right) on the touchscreen to jump to the previous or next chapter.
-  This function may not be available with some VCD2.0 discs.








Fast search forwards/backwards

-  Touch the  or  symbol during playback.
-  Each time the symbol is pressed, the fast forward/rewind speed changes as follows:
2x → 4x → 8x → 20x → Normal.


Calling up the DVD menu

-  During playback, touch function area E (bottom centre) of the touchscreen to display the on-screen control elements.
-  Touch the  symbol to call up the DVD main menu.
-  Touch the desired menu item to start playback.


Or:

-  Select the desired menu item using the , ,  and  buttons on the remote control.
-  Then press the **OK** button to confirm the selection and start playback.
-  Press the **TITLE** button to open the next menu on the DVD.

Repeating a chapter/title

- ☞ Touch the  symbol once or several times during playback to set REPEAT mode as follows:
 - DVD: Repeat Title, Repeat Chapter, Repeat Off.
 - VCD/CD: Repeat Single, Repeat Off.
 - MP3: Repeat Single, Repeat Folder, Repeat Off.

■ Marking and repeating a film sequence (A->B)

- ☞ Touch the **A→B** symbol during playback to specify the beginning of a desired film sequence.
- ☞ Touch the **A→B** symbol again to specify the end of the desired film sequence.
-  The player now repeats the marked film sequence continuously.
- ☞ Touch the **A→B** symbol again to exit the function and return to normal playback.

GOTO function




For jumping directly to a specific title/chapter or to a specified time.

During playback:

- ☞ Touch function area F (top right) of the touchscreen to activate the GOTO function.
- ☞ Touch the desired category: Title/chapter or time (for DVD) and time or title (for VCD).
- ☞ Using the number pad, enter the desired time or the desired title/chapter and confirm with "OK".

Selecting the camera angle (DVD only)

When the "ANGLE MARK" (camera angle) function is activated, the camera symbol is displayed on the screen when a scene with alternative camera angles is played from a DVD.

- ☞ Press the **ANGLE** button on the remote control once or several times while the camera symbol is displayed on the monitor to select the desired camera angle.
-  This function is only available if there are scenes with alternative camera angles on the DVD currently loaded.
-  The number of camera angles depends on the DVD.
-  For information on activating "ANGLE MARK", see "DVD setup".

Zoom (magnification)

- ☞ Press the **ZOOM** button on the remote control once or several times during playback to select the desired zoom factor: Q1 → Q2 → Q3 → Q4 → OFF.

Multi-language discs

■ Selecting the dialogue language

DVD:

- 👉 Touch the **AUDIO** symbol on the touchscreen, or
- 👉 press the **AUDIO** button once or several times during playback to select the desired dialogue language.
- 📎 The number of dialogue languages depends on the DVD.
- 📎 Some DVDs only have one dialogue language.

VCD/CD:

- 👉 Touch the **AUDIO** symbol on the touchscreen, or
- 👉 press the **AUDIO** button once or several times during playback to select the desired audio mode:
 - Stereo (L & R), Left only (L), Right only (R).

■ Selecting the language for subtitles

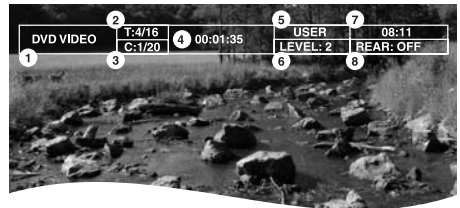
- 👉 Press the **SUB-T** button once or several times during playback to select the desired language for subtitles.
- 📎 The number of languages for subtitles depends on the DVD.

Displaying playback information

- 👉 During playback, touch function area B (top centre) of the touchscreen to display information about the current disc on the screen.
- 📺 The following information is displayed:

■ DVD playback:

1. Display of the current source.
Touch this area to call up the main menu.
2. Current title number and total number of titles on the DVD
3. Current chapter number and total number of chapters for the current title
4. Elapsed playing time for the current title
5. Display of the sound style setting
6. Display of the current loudness setting
7. Display of the current time
8. Display of the selected rear zone operating mode



■ VCD playback (differences):

2. Current track number and total number of tracks on the VCD
4. Elapsed playing time for the current track



CD audio playback

☞ Press the **MODE** button on the TFT monitor repeatedly until “DVD” is displayed in the upper section of the screen.

Or:

☞ On the touchscreen, touch the DVD symbol in the main menu.

☞ The multimedia system switches to CD playback and the CD menu appears.

CD audio (CDDA)

The following information and functions appear in the CDDA menu:

1. Display of the current source.
Touch this area to call up the main menu.
2. Display of the disc title (if there is CD text available)
3. Display of the current track (if there is CD text available)
4. Display of the current time
5. Start/stop playback
6. Stop playback
7. Return to the previous page
8. Go to the next page
9. Fast rewind
10. Fast forward
11. Activation of the scan function (all tracks of the current CD)
12. Switch on REPEAT and select mode
13. Activate/deactivate random play
14. Display the number pad for entering the track number directly
15. Display of the current track number and the total number of tracks on the current CD
16. Display of the elapsed playing time for the current track
17. Display of the selected sound style, the current loudness setting and the selected rear zone operating mode
18. Display of the current volume setting



■ Playing an audio CD:

When an audio CD is inserted, all tracks are played sequentially.




■ Selecting a track

☞ Touch the desired track in the track list (3), or

☞ touch the keyboard symbol (14) and select a track using the number pad.

MP3/WMA playback

You can play MP3 and WMA files with the multimedia system. The files can be stored on DVD+R/RW, DVD-R/RW, CD-ROM, CD-R, CD-RW or SD card.

-  CD-RW discs should be formatted with the "Full" option so that they can be read.
-  MP3 files with a maximum bit rate of 320 kbps and a sampling frequency of 48 kHz can be played.
-  MP3 files must have the extension ".mp3", while WMA files must have the extension ".wma" in order to be read by the multimedia system.

The following information and functions appear in the MP3/WMA menu:



1. Display of the current source.
Touch this area to call up the main menu.
2. Display of the folder name
3. Display of the current track
4. Display of the current time
5. Start/stop playback
6. Return to the previous page
7. Go to the next page
8. Display of the previous folder on the disc or SD card
9. Display of the next folder on the disc or SD card
10. Fast rewind
11. Fast forward
12. Stop playback
13. Switch on REPEAT and select mode
14. Activate/deactivate random play
15. Display of the number pad for entering the track number directly
16. Display of the medium (DVD, CD, SD), the current track number (file) and the total number of tracks (files) on the current disc or SD card
17. Display of the elapsed playing time for the current track
18. Display of the selected sound style, the current loudness setting and the selected rear zone operating mode
19. Display of the current volume setting
20. Display of the ID3 tag with MP3 playback



■ Playing MP3/WMA files

When an MP3/WMA disc or SD card is inserted, all files and folders are played sequentially. Each file is assigned a file number (track number).

■ Selecting a track

-  Touch the desired track in the track list (3), or
-  touch the keyboard symbol (15) and select a track using the number pad.


iPod playback

■ Switching to iPod

 Press the **MODE** button on the TFT monitor repeatedly until “iPod” is displayed in the upper section of the screen.

Or:

 On the touchscreen, touch the **iPod** symbol in the main menu.

 The multimedia system switches to iPod playback mode and the iPod menu appears.


The following information and functions appear in the iPod menu:


1. Display of the current source.
Touch this area to call up the main menu.
2. Display of the name of the artist
3. Display of the current track
4. Display of the current time
5. Start/stop playback
6. Stop playback
7. Return to the previous page
8. Go to the next page
9. Fast rewind
10. Fast forward
11. Activation of the scan function (all tracks of the current folder or current playlist)
12. Switch to the video folder and wait for video data from the iPod
13. Switch on REPEAT
14. Activate/deactivate random play
15. Display of the folder list
16. Display of the number pad for entering the track number directly
17. Display of the next highest folder structure
18. Display of the current track number and the total number of tracks for the current category
19. Display of the elapsed playing time for the current track
20. Display of the selected sound style, the current loudness setting and the selected rear zone operating mode
21. Display of the current volume setting
22. Display of the album title



Displaying JPEG images

JPEG images can be displayed from DVD and CD with the DVD player as well as from SD card.


 JPEG files must have the extension ".jpg" in order to be read by the multimedia system.

 If JPEG images and MP3 or WMA files are available on a storage medium at the same time, both file types are displayed in a list.

JPEG images are displayed with a camera symbol in front of the file name, while audio files have a musical note in front of the file name.

JPEG menu operation is almost identical to MP3 menu operation.


■ Displaying JPEG images

 Select the source from which the images are to be displayed (DVD, SD).


 The images are displayed in a slide show for approx. 20 seconds each.


When the JPEG menu is displayed:

 Touch the ►/|| symbol to start displaying the images in the list, or

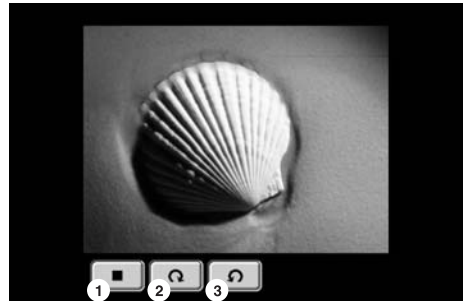
 touch the name of the image to be displayed in the list.

■ Image control

 During display, touch area C (left) or D (right) on the touchscreen to jump to the previous or next image.

 During playback, touch function area E (bottom centre) of the touchscreen to display the on-screen control elements.

1. Stop playback and return to the list of images
2. Rotate the image by 90° clockwise
3. Rotate the image by 90° anti-clockwise



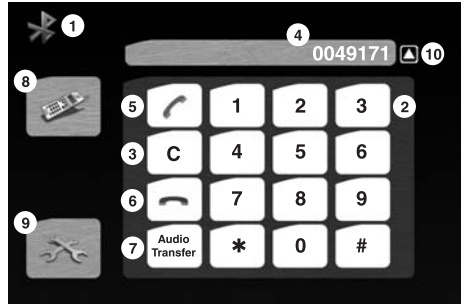
Hands-free mode with Bluetooth

Bluetooth menu

- ☞ On the touchscreen, touch the **PHONE** symbol in the main menu, or
- ☞ on the touchscreen, touch the **Bluetooth** symbol next to the time in one of the other menus.
- ☞ The Bluetooth menu appears.

The following information and functions appear in the Bluetooth menu:

1. Display of the current source.
Touch this area to call up the main menu.
2. Number pad for entering the call number
3. Clear button
4. Display of the dialled call number
5. Establish connection
Accept call
6. Terminate connection
End call
7. Play audio file from telephone (not supported by all telephones)
8. Activate telephone mode
9. Call up the menu for telephone settings
10. Back to previous menu









Linking of mobile phone with VRM 6200 (pairing mode)

In order to be able to operate a mobile phone with the VRM 6200, it must first be registered with the VRM 6200. This procedure only needs to be carried out once.

- ☞ Activate the "Bluetooth" option in the system settings (see setup menu).
- ☞ Call up the Bluetooth menu.
- ☞ Touch the symbol for the telephone settings (9).
- ☞ Touch the "YES" option under "Pairing" to start the pairing process.
- ☞ There will now be a short delay whilst the VRM waits for a Bluetooth mobile phone to log on.
- ☞ Next, activate the "Search for Bluetooth devices" on the mobile phone to establish the connection to the VRM.
- ☞ More detailed information about registering Bluetooth devices on your mobile phone can be found in the mobile phone operating instructions.
- ☞ Whilst the link is being established, you will be prompted to enter a Bluetooth PIN. The PIN for the VRM is "1234".
- ☞ As soon as the link to a Bluetooth mobile phone has been established, the Bluetooth symbol stops flashing.
- ☞ The VRM is now ready for use with the mobile phone.

Making and receiving telephone calls

-  Enter the desired telephone number using the number pad.
-  You can delete digits that have been entered incorrectly with the C symbol.
-  Touch the  symbol on the touchscreen to establish the connection or accept a call.
-  Touch the  symbol to terminate the connection or to reject a call.

Bluetooth settings

-  Touch the symbol for the telephone settings (9) in the Bluetooth menu.

In this menu you can make the following settings:

■ Pairing

See "Linking of mobile phone with VRM 6200 (pairing mode)" on the previous page.

■ Auto Answer

When this function is activated, an incoming call is accepted automatically after two rings.

■ Connect (automatic Bluetooth connection)

When the "Auto" option is selected, two devices that have already been paired will connect automatically as soon as the mobile phone enters the Bluetooth range of the multimedia system if it is switched on.


When the "Manual" option is selected, your mobile phone will inform you as soon as you enter the vicinity of the multimedia system if it is switched on.

■ Exiting the settings menu

-  Touch the telephone symbol (8) in the Bluetooth menu.

Audio transfer

More detailed information about transferring audio files from your mobile phone can be found in the mobile phone operating instructions.

-  This function is only available with certain mobile phones.

Navigation

■ Calling up navigation system

-  Press the **NAV** button on the TFT monitor.



Or:

-  On the touchscreen, touch the **NAV** symbol in the main menu.

■ Navigation operation

The navigation functions are controlled using the remote control of the navigation computer. Further information can be found in the navigation operating instructions.

■ Exiting navigation system

-  Touch area A (top left) on the touchscreen, or
-  press the **MODE** button on the TFT monitor to return to the main menu of the multimedia system.

■ Calling up the Bluetooth menu from navigation system

-  Touch area F (top right) on the touchscreen to call up the Bluetooth menu.

SETUP menu

On the touchscreen, touch the **SETUP** symbol in the main menu to call up the setup menu.

In the setup menu you can make the following settings:



■ Display settings

On the touchscreen, touch the symbol for the display settings (1).

Option	Set value	Description
Brightness	-10 ... +10	For adjusting the brightness
Screen Tilt	1 ... 6	Viewing angle of the TFT monitor
Screen Saver	On/Off	For switching the screensaver on/off
TS Calibrate	No/Yes	For calibrating the touchscreen
Version	No setting possible	Display of the firmware version

■ System settings

On the touchscreen, touch the symbol for the system settings (2).

Option	Set value	Description
Radio	USA	For selecting the tuner grid for the radio tuner according to the continent you are currently in. If you change the tuner grid, all station memories will be deleted.
	S-America	
	Europe	
Clock	(HH:MM)	For setting the time. See section "Setting the time".
Clock Mode	12Hr	Display of the time in 12-hour format.
	24Hr	Display of the time in 24-hour format.
Cam Image	Normal	Display of the image from the reversing camera in normal mode
	Reverse	Display of the image from the reversing camera in inverse mode
Video Format	Auto	For automatic adaptation of the video standard of the video output to the standard of the inserted disc.
	NTSC	For setting the video standard of the video output to NTSC
	PAL	For setting the video standard of the video output to PAL
TFT Auto Open	On	The TFT monitor moves into the vertical position when switched off. The viewing angle previously selected is restored when the monitor is switched on again.
	Off	The TFT monitor moves into the vertical position after being switched off and remains closed after being switched on.
	Manual	The TFT monitor remains in the set vertical position after being switched off.
OSD Menu	English	Language selection for the OSD menu.
	Deutsch	
	Français	
	Español	
	Italiano	
Bluetooth	On/Off	Activation/deactivation of the integrated Bluetooth function.

■ Setting the time

In the SETUP menu, call up the system settings (2) option (see above).

Touch the desired value (hours or minutes).

Enter the desired time using the number pad.

Complete the input with "OK".

■ Audio settings

☞ On the touchscreen, touch the symbol for the audio settings (3).

Option	Set value	Description
Bass Freq	60Hz	Adjustment of the cutoff frequency for the bass setting.
	80Hz	
	100Hz	
	130Hz	
	150Hz	
	200Hz	
Treble Freq	10KHz	Adjustment of the cutoff frequency for the treble setting.
	12.5KHz	
	15KHz	
	17KHz	
FM/AM Gain	-07 ... +07	Volume adjustment for radio mode
DVD Gain	-07 ... +07	Volume adjustment for DVD mode
iPod Gain	-07 ... +07	Volume adjustment for iPod mode
BLUETOOTH Gain	-07 ... +07	Volume adjustment for the BLUETOOTH hands-free function
SD Card Gain	-07 ... +07	Volume adjustment for music playback using the SD card reader
AUX IN Gain	-07 ... +07	Volume adjustment for AUX-IN mode

DVD setup menu

☞ On the touchscreen, touch the **SETDVD** symbol in the main menu, or

☞ touch the symbol for the DVD settings (4) in the setup menu to call up the DVD setup menu.

☞ To exit the menu touch the ▲ symbol (5).

In the DVD setup menu you can make the following settings:




■ DVD language settings

☞ On the touchscreen, touch the symbol for the language settings (1).


Option	Set value	Description
Subtitle	English	Preferred language for subtitles.
	Auto	Automatic display of subtitles.
	Off	No automatic display of subtitles.
Audio	English	Preferred language for dialogue.
DVD menu	English	Preferred language for the DVD menus.
External Subtitle	English	Preferred language for external subtitles (if available).
	WesternEur	
	CenterEur	

■ DVD audio settings

 On the touchscreen, touch the symbol for the DVD audio settings (2).

Option	Set value	Description
DRC	On	Activation of dynamic compression.
	Off	Deactivation of dynamic compression.


■ DVD video settings

 On the touchscreen, touch the symbol for the DVD video settings (3).

Option	Set value	Description
TV Shape (Aspect Ratio)	4:3	The picture is displayed in 4:3 format.
	16:9	The picture is displayed in 16:9 format.
Angle Mark	On	The camera symbol is displayed if there are alternative camera angles available.
View Mode	Fill	Picture format selection.
	Original	
	H FIT	
	W FIT	
	Fit to Scrn	
	Pan Scan	

■ Parental control function (classification settings)

Depending on the DVD player settings, the parental control function enables certain content or entire DVDs to be blocked for viewing by children and teenagers.

 However, hitherto only few DVD manufacturers support this categorisation and provide their DVDs with such classification.

 On the touchscreen, touch the symbol for parental control (4).

Option	Set value	Description
Password	----	Enter a password of at least four characters to activate the parental control function. A lock symbol is used to indicate the parental control status.
Rating	1. Kid Safe	For selecting the desired level of parental control. Higher levels can only be disabled by entering the password.
	2. G	
	3. PG	
	4. PG-13	
	5. PG-R	
	6. R	
	7. NC-17	
	Adult	
Load Factory	No/Yes	Select "YES" to restore the factory settings of the multimedia system (except for password and parental control).

To change the password, enter the current password in the "Parental control" menu.

 Please note down the assigned password and keep it in a safe place.

In rare cases, your multimedia system may not function the way you expect it to. Before calling the service department, please read the operating instructions thoroughly and go through the following check list; it may be possible to quickly remedy an apparent malfunction.

Symptoms	Possible cause/remedy
General	
The unit does not function. No reaction when the ignition is turned on and the POWER button is pressed.	<ul style="list-style-type: none"> • Check the fuses (unit and vehicle) and the connections (see installation instructions). • Press the RESET button on the TFT monitor.
The unit does not react to pressing buttons on the remote control.	Remote control batteries empty. <ul style="list-style-type: none"> • Replace batteries with a new cell of type CR2025.
No/low volume during playback.	Audio connections defective. <ul style="list-style-type: none"> • See pin setting in the installation instructions. Volume set too low. <ul style="list-style-type: none"> • MUTE input connected incorrectly. • Loudspeaker damaged.
Unit switches with hands-free unit/Telephone is not being detected even though it has been connected to the unit.	TEL. MUTE lead connected incorrectly or hands-free unit has an incompatible MUTE signal (active high). <ul style="list-style-type: none"> • See pin setting in the installation instructions.
Preset contents are lost when the unit is switched off.	Incorrect power supply connection (permanent positive). <ul style="list-style-type: none"> • See pin setting in the installation instructions.
No Bluetooth function.	Activate the "Bluetooth" option in the setup menu under "System settings".
TFT monitor	
The monitor does not open automatically when switched on.	The option "TFT Auto Open" in the setup menu is set to "OFF".
The monitor remains in the incorrect position.	The swivel range of the monitor is blocked by an obstacle.
No picture; only a warning message is displayed even though the vehicle is stationary.	Hand brake not applied or hand brake signal not connected correctly. <ul style="list-style-type: none"> • See pin setting in the installation instructions.
Picture interference or flickering.	The selected AV source or disc is not compatible with the selected TV standard (NTSC/PAL). <ul style="list-style-type: none"> • See "Setup menu", option "System settings". AV source connected incorrectly. <ul style="list-style-type: none"> • See pin setting in the installation instructions.
Radio	
Poor radio reception.	<ul style="list-style-type: none"> • Check if the antenna is completely extended and correctly connected. • Check whether the supply voltage's negative pole is correctly connected to earth (vehicle chassis). If the unit is being installed in VW and Audi vehicles, you will need a feed multicoupler for the antenna. <ul style="list-style-type: none"> • Use a suitable adapter (e.g. Votex).
DVD/CD player	
Interference to picture or sound during disc playback. Picture freezes during playback.	The player cannot play the disc. The disc may be damaged or soiled.
Player does not play the inserted disc.	The format of the inserted disc does not comply with the player's specifications. <ul style="list-style-type: none"> • In cold weather conditions, condensation may occur on the laser. • Wait approximately 5 minutes until the condensation evaporates.
Playback stops, error message on the monitor.	An integrated safety circuit prevents the temperature in the device from exceeding a certain value <ul style="list-style-type: none"> • Allow the device to cool down.
Disc cannot be inserted.	There is already a disc inserted in the player.

If you cannot find a solution to your problem, contact an authorised VDO Dayton service agent or call our Customer Helpdesk*. You will find the telephone number for your country on the Internet at www.vdodayton.com.

* Telephone support is subject to a fee in some cases.

■ Amplifier

Power output: 4 x 20 W RMS to 4 Ohms, < 10% THD+N
 Reference voltage: 14.4 V DC

■ DVD/CD player

Compatible DVD formats: DVD-R, DVD-RW, DVD+R, DVD+RW
 Compatible CD formats: CD-R, CD-RW, CD-DA, SVCD, VCD, HDCD
 Compatible file formats: JPEG, MP3, WMA (on DVD+R/W, DVD-R/W and CD-R/RW)

■ Video

Format: NTSC/PAL (automatic switching)
 Output level: 1 V_{ss} (75 Ohms), buffered
 Input level: 1 V_{ss} (75 Ohms)

■ Radio tuner

FM frequency range: 87.5 MHz - 107.9 MHz
 AM frequency range: 530 kHz - 1710 kHz

■ Monitor

Screen diagonal: 6.5 inches
 Display type: TFT active matrix liquid crystal display












Input impedance of auxiliary input: 10 kOhm
 Supply voltage range: 10.5 to 16 V DC, negative earth
 Fuse: 10 amps, type Mini ATM
 DIN housing dimensions (W x H x D): 178 mm x 100 mm x 178 mm

Subject to technical modifications and errors.

Maintenance and care

Do not clean using cleaning fluid, alcohol or other solvents. Use only a damp cloth.

IMPORTANT INFORMATION

-  Only trained personnel may install the unit!
-  Observe automotive industry quality standards!
-  Fire hazard. When drilling, take care not to damage concealed wiring harnesses, the fuel tank or fuel lines!
-  Never drill into supporting or safety-relevant body parts!
-  Only install the unit in vehicles with a 12-V on-board voltage and negative pole on the vehicle body. Installation in unsuitable vehicles (e. g. heavy goods vehicles, buses) results in a risk of malfunction, damage and fire!
-  Always ensure correct assignment of vehicle connections. Incorrect assignment of the connections may damage the unit or the vehicle electrical system/electronics!
-  Do not damage safety system wiring (airbag etc.)! (Wiring is normally specially marked, for example by labels.)
-  Do not use test lamps to test the voltage, since excessively high currents can damage/destroy electronic components.
-  Insulate all junctions with shrink hose or insulating tape.
-  Fit toothed washers at earth connections to the vehicle body. If necessary, remove paint and dirt beforehand. Subsequently, protect bare metal against corrosion.
-  In order to ensure perfect installation, use only the original components supplied. The use of non-authorised components may result in malfunction.

Installation in vehicles equipped with standard ISO connectors


The unit can be installed without major preparation in vehicles equipped with ISO standard connectors. A few signals may have to be routed to ISO plug A (refer to connection overview of ISO chamber A).

For problem-free installation on vehicles with different connection requirements, ask your dealer for special cables.

Installation in vehicles without standard ISO connectors

If no adapter cables are available for your vehicle, connect the unit as described in the section on establishing electrical connections.

Taking safety precautions, Fig. 1

-  Before starting work, disconnect the earth lead from the negative terminal of the vehicle battery in order to prevent short circuits. In this process, observe the vehicle manufacturer's safety instructions (alarm system, airbag, immobiliser, etc.).


Making the electrical connections


Install all cables with care. For wiring, refer to the connection diagram on the cover page and the following table.

Non-assigned cables should not be cut off. Instead, they should be insulated, wound and secured to one side. They may be required for retrofitting additional functions.

Connection overview, ISO chamber A, Fig. 2:

Pin	Colour	Designation	Connection
A1			No function
A2	Green/white	REVERSE	Switch input reversing signal (reversing light positive)
A3			No function
A4	Yellow	B+	+ 12-V permanent positive
A5			No function
A6	Orange	ILLUMI	Switch input for pilot light
A7	Red	ACC	+12-V ignition positive / Accessory contact / ACC
A8	Black	SUP-GND	Negative battery pole, earth

 **Connect electrical signals only to suitable points in the vehicle.**

 **If a separate connection is made directly to the battery, protect the positive lead with a 10-A fuse close to the battery (max. distance of 10 - 15 cm).**

Connection overview, ISO chamber B (loudspeakers), Fig. 3:

Pin	Cable colour	Connection to loudspeaker
B1	Blue	+ Rear right (RR+)
B2	Blue/black	- Rear right (RR-)
B3	Grey	+ Front right (FR+)
B4	Grey/black	- Front right (FR-)
B5	White	+ Front left (FL+)
B6	White/black	- Front left (FL-)
B7	Green	+ Rear left (RL+)
B8	Green/black	- Rear left (RL-)

 **Use only loudspeakers with an impedance of 4 Ohms!**

 **Do not connect the loudspeakers to earth!**

 **Do not connect the booster/amplifier directly to the loudspeaker outputs!**

 **Do not connect loudspeakers via an external fader!**

Other connections, Fig. 4, 10

Colour	Designation	Connection
Blue*	P.ANT	Switch output for electronic antenna/motor antenna (max. 0.2 mA)
Blue/white	P.CNTR	Switch output for additional devices, e.g. output stage (max. 0.2 mA)
Pink	PARKING	Switch output for hand brake (active at +12 V)
Brown	MUTE	Switch output for muting (active at 0 V)
Grey	NAVI MUTE	Switch output for NAVI audio switching (active at 0 V)

 *** Do not use this connection to power the antenna motor!**

■ Hand brake signal – PARKING

- 🔌 Connect the pink wire to a suitable hand brake point.
- 📝 When the hand brake is applied, the signal must lie at earth potential.
- 📝 For reasons of driving safety, video images from the DVD and AUX sources are only displayed on the TFT monitor of the main unit when the hand brake is applied.

■ Telephone mute – “MUTE”:

- 🔌 Connect the brown “MUTE” cable to the mute function output of your hands-free unit.

■ Navi audio switching – “NAVI MUTE”:

- 🔌 Connect the grey “NAVI MUTE” cable with the supplied quick connector to the MUTE output of the navigation computer.
- 📝 Navigation instructions are then transmitted via the loudspeakers of the multimedia system.

■ Reversing camera – “Camera”:

Connect a reversing camera to this input.

- 📝 If the switch input for the reverse gear is connected (see Connection overview, ISO chamber A), the video image from the reversing camera is displayed automatically as soon as reverse gear is engaged.
- 📝 VDO Dayton reversing cameras can be connected via the MI 2050 interface.

■ AUX-AV input – “AUX IN VIDEO” and “AUX IN L/R”:

- 🔌 Connect the video output of the AV source to the yellow socket on the unit’s front panel.
- 🔌 Connect the right-hand channel of the AV source’s audio output to the adapter cable’s red socket “AUX IN R”.
- 🔌 Connect the left-hand channel of the AV source’s audio output to the adapter cable’s white socket “AUX IN L”.
- 📝 Video signals are output to the TFT monitor only if the hand brake signal has been routed properly (see “Hand brake signal – PARKING”).

■ Audio/output front – “LINE OUT FRONT L&R”:

A power amplifier and additional loudspeakers can be linked to the unit via this connection.

- 📝 In multi-zone operation, the front unit’s audio signal is played via this output.

■ Monitor output – “REAR MONITOR”:

An additional monitor (e.g. rear monitor) can be linked to the unit via this connection.


- 📝 In multi-zone operation, the video signal of the DVD player, AUX input or SD card reader is played via this output.

■ Audio/output rear – “REAR ZONE OUT L&R”:

When using a rear monitor, you can attach the audio signal to the monitor via this connection.

- 📝 In multi-zone operation, the audio signal of the DVD player, AUX input or SD card reader is played via this output.

■ Radio antenna – “FM ANTENNA”:

 Connect the AM/FM vehicle antenna to this connection. Use the supplied plug adapter if required.

■ iPod connection – “IPOD”:

An iPod can be linked to the unit via this connection.

■ Navigation computer – “NAVI CABLE”:

A VDO Dayton navigation computer can be linked to the unit via this connection.

Installing the unit

The VRM 6200 can be installed using both the double DIN installation bracket provided and vehicle-specific installation brackets. Details on both installation methods can be found in the sections below.

■ Note before installing, Fig. 5, 6

Allow sufficient clearance

- for the wiring and ventilation behind the unit,
- for extension of the TFT monitor in front of the unit.

Mounting the unit with the DIN installation bracket

1. Insert the installation bracket into the double DIN slot and bend the appropriate metal tabs inwards using a screwdriver (Fig. 7). Take care not to damage any hidden parts in the dashboard.
2. Check that all the required leads are connected to the multimedia system.
3. Push the unit into the installation bracket until it engages.

■ Removing the unit, Fig. 8

1. Insert the supplied removal tools into the recesses on both sides of the unit until they engage (1).
2. Pull the unit carefully out of the instrument panel (2) with the removal tools.

Installation with installation brackets (vehicle-specific accessory), Fig. 9

Ask your vehicle dealer for suitable vehicle-specific installation brackets and for a matching panel.

1. Connect the vehicle-specific installation brackets to the unit. Choose a position where the screw holes of the brackets match those of the unit.
2. Then screw the unit on securely with two screws on each side.

 **Use only the supplied screws for mounting the installation brackets. Using screws that are too long could damage components in the unit.**

Connecting the unit

Reconnect the battery.