




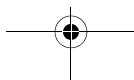
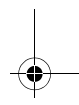
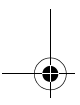
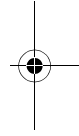
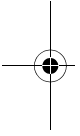




OVERVIEW

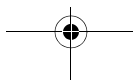
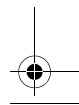
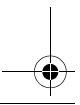
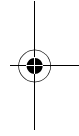
1. OPEN  : Open control panel
2. SEL: Press repeatedly to call up the following audio settings: volume, bass, treble, balance, fader;
SEL: Press repeatedly for a little longer to call up the various traffic announcement settings
SEL: When carrying out an MP3 search using letters, confirm every entry
3. PWR: turn device on/off (the device can also be turned on with any other key except OPEN)
DIM (tap): dim display
Turn knob: adjust selected audio setting (see Item 2)
4. Display
5. REC: record on device connected via USB
TA (Traffic Announcement): activate the TA function
6. EQ (Equaliser): press repeatedly to change sound settings
7. USB connection (behind protective cover)
8. AS/PS: save stations automatically
9. 0 / DSP: number key 0 / switch display mode
10. 1 / PAU: number and station key 1 / pause play in CD/MP3 mode
11. 2 / SCN: number and station key 2 / scan function in CD/MP3 mode
12. 3 / RPT: number and station key 3 / repeat function in CD/MP3 mode
13. 4 / SHF: number and station key 4 / shuffle function in CD/MP3 mode
14. 5 / DIR  : number and station key 5 / MP3 search downwards
15. 6 / DIR  : number and station key 6 / MP3 search upwards
16. 7 / MOD: number key 7 / select operating mode Radio - CD/MP3 - USB - card reader
17. 8 / TUN/TRK  : number key 8 / station search backwards
18. 9 / TUN/TRK  : number key 9 / station search forwards
19. LOU: loudness/BND: band selector/enter: confirm selection.
20. PTY (Program Type): press once to search for stations from the PTY group "music"; press twice to search for stations from the PTY group "speech"; press three times to turn off PTY
21. RESET opening: reset to factory settings
22. AF/REG: press for a short time to start RDS mode
press longer to switch to regional mode
23. Card reader
24. Red LED (anti-theft protection)
25. CD compartment
26. EJECT: eject CD





CONTENTS

Safety instructions	4
What's in the box?	6
Installation	6
Installation instructions	6
Fit the installation frame	7
Cable connections	8
Inserting the car radio	9
Control pane	10
RESET	10
Removing the unit	10
Explanation for using the cables	11
Operation	13
Basic operation	13
RDS clock feature	14
Radio functions	15
Playing Audio CDs	20
Playing MP3 CDs	21
WMA files	23
USB connection	24
Playback	24
Recording	24
Card reader	25
Playback	25
Recording	25
Troubleshooting	26
Disposal information	27
Technical data	28





SAFETY INSTRUCTIONS



About these instructions

Please read these instructions carefully before using the device. Note the warnings on the device and in the operating instructions. Store the operating instructions in the car. If you sell or give the car radio away, please ensure that you also pass on these instructions.

Keep electrical equipment out of reach of children

The appliance is not intended for use by young children or infirm persons without supervision.

Young children should be supervised to ensure that they do not play with the appliance.

Road safety



Road safety should be your top priority. Use your car radio only in suitable traffic conditions. Please ensure that you are familiar with the radio *before* setting off.

You should always be able to hear police, fire and other emergency service sirens immediately while you are in your vehicle. For this reason, please play your radio at an appropriate volume while driving.

Never undertake your own repairs

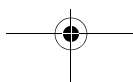


Under no circumstances should you attempt to open and/or repair this unit on your own. Refer all servicing to MEDION Help Desk on 1300 884 987.

CD player



The CD player is a Class 1 laser product. The device has a safety system that prevents dangerous laser rays escaping from the device during normal use. In order to avoid injury to the eyes, never interfere with or damage the unit's security system.





Safety instructions

Using the CD player

Never place any objects other than CDs into the disc compartment. Otherwise you might damage the precisely engineered pull-in mechanism.

Moisture and high humidity may cause the CD player to malfunction. If this occurs, switch on the vehicle's heater to evaporate the moisture before use.

Do not expose the CD player to extremely high or low temperatures.

Installation

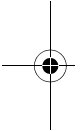


IMPORTANT!

We recommend that you have this product installed by a qualified installer. The supplier will not be liable for any damages caused to this product or to other devices in the car as a result of incorrect installation.



Before installation, disconnect the battery first. There is a risk of short-circuit and electric shock!

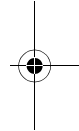


Please use the car radio's ISO block for installation. Never disconnect the ISO block. Disconnecting the cables voids the guarantee!

Avoid installing the set in the following circumstances:

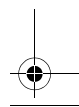
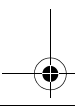
- high temperatures (e.g. caused by strong sunlight or direct heated air),
- dust, dirt
- and vibrations.

This can damage the device.



Cleaning the device

Use a soft, dry cloth to clean the device. Avoid the use of chemical solutions and cleaning products, because these may damage the unit's surface and/or the labels on it.





WHAT'S IN THE BOX?

The following are included in the delivery pack:

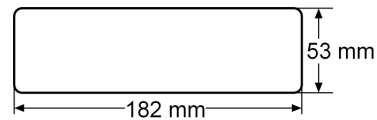
- | | |
|--|---|
| <input type="checkbox"/> Car radio | <input type="checkbox"/> Control panel |
| <input type="checkbox"/> Mounting frame (clipped on) | <input type="checkbox"/> Control panel case |
| <input type="checkbox"/> Frame (clipped on) | <input type="checkbox"/> ISO connector |
| <input type="checkbox"/> 2 fitting wrenches | <input type="checkbox"/> Operating instructions and guarantee documents |

INSTALLATION



Before installation, disconnect the car battery! There is a risk of short-circuit and electric shock!

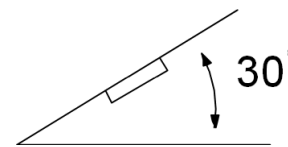
The car radio is designed to be fitted in a standard ISO installation slot. The dimensions of this slot are 182mm x 53mm. It has two ISO plugs and an antenna plug.



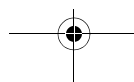
If your vehicle has no ISO slot, please consult a specialist garage, dealer, or the specialist department of a large store.

Installation instructions

- Place the set in the ISO slot provided for it.
- If changes have to be made to the vehicle, consult your vehicle dealer/ specialist garage.
- If the unit is installed at an angle of over 30° off the horizontal, this may reduce its optimal output capacity.
- Avoid installing the unit near strong heat (e.g. direct sunlight or heated air), dust, dirt or strong vibrations. This can damage the set.

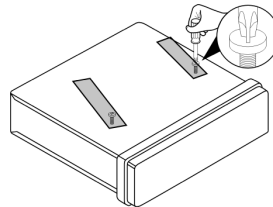


Maximal installation angle

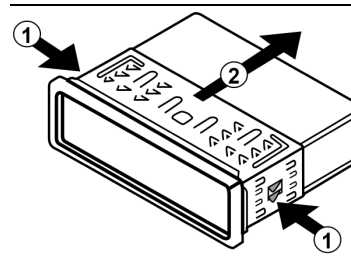


Fit the installation frame

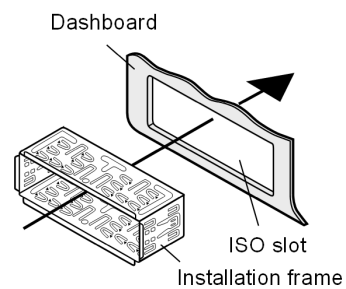
- Before installation, always use a phillips screwdriver to remove the two transport safety screws in the top part of the radio casing (marked with red flags)!



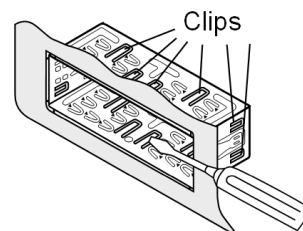
- The car radio is delivered with the installation frame fitted over it. Firstly remove the mounting frame from the car radio casing. To do this, push down the two clips on the sides of the car radio (1) and push the mounting frame off the radio from behind (2).



- Insert the mounting frame in the ISO installation slot.



- In order to fix the mounting frame in the installation slot, use a screwdriver to bend out as many clips as possible. Choose the clips which fit tightly against the installation slot casing.



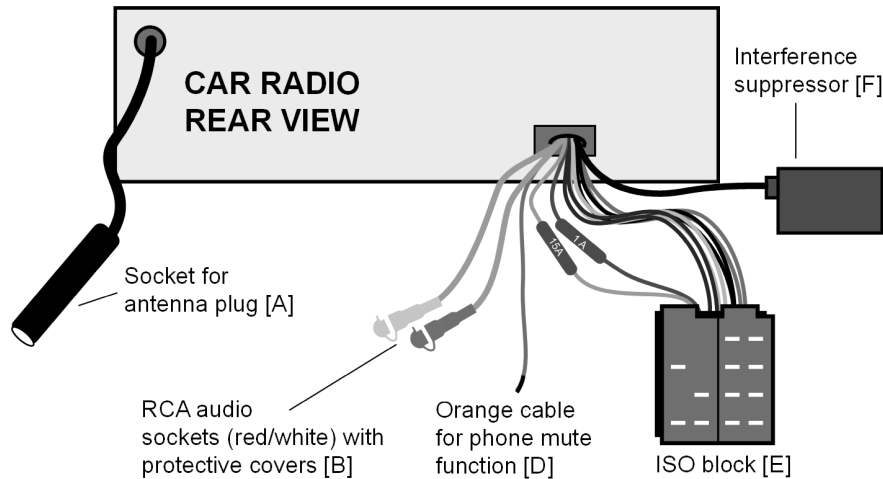
- ! Next, check that the frame fits tightly. The frame must be tightly fitted, to prevent it from coming loose if the driver brakes sharply.



Installation

Cable connections

A general view of the back of the car radio:



Connect up the cables

- Pull out the connections in your car's ISO slot far enough for you to join them to the ones from the car radio.

Please use the car radio's ISO block for installation. Never disconnect the ISO block - If your car's ISO plugs do not fit the car radio's ISO sockets, you can buy suitable adapters in specialist garages, from dealers and the specialist departments of large stores.

i Secure, proper electrical connections are provided by your car's two ISO plugs (for the loudspeakers and the power connections). In case you still wish to lay the cables yourself, we explain in detail the uses of the cables at the end of this chapter.

[A] Connect the vehicle's antenna plug to the radio's antenna socket.

[B] If you use an external amplifier, you can connect it to the red/white RCA audio sockets. Please also refer to your instructions for the amplifier.

[C] The orange cable may be connected to a hands-free mobile phone kit. The type of connection depends on the cable and the connecting piece between it and the hands-free kit. Please also refer to the operating instructions for the

hands-free kit. If the vehicle does not have a hands-free kit, the orange cable stays unconnected in the slot.

[D] Connect the vehicle's two ISO plugs (one ISO plug for ISO Block A and one for ISO-Block B) to the car radio's ISO block.

[E] The interference suppressor is used to repel disturbing irradiation. It is also led into the slot and remains there unconnected.

Test station memory

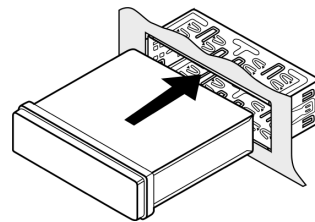
In some vehicle models the standard arrangement for the standard plus and permanent plus cables has been switched in the factory (see "Arrangement of the ISO block" on page 12). This can lead to the station memory not working. Before you finally install the car radio, try the following to find out if you have saved the stations.

- Reconnect the car battery.
- Turn on the ignition.
- Switch the radio on.
- Go through the automatic station saving process, holding down the AMS [20]key for approx. two seconds (see also "Automatic saving" on page 15).
- Switch the ignition off.
- Switch on the ignition again and find out if the stations have been saved (press the station buttons 1 bis 6 [13-18]).
- If the stations have been saved, you can install the radio.
- If the stations are no longer in the memory, you should use an adapter, obtainable from the specialist store, or have the cable adapted in a specialist garage. If this is the case, refer to Chapter "Explanation for using the cables" on page 11.

Inserting the car radio

- Push the car radio carefully into the slot until it clicks into place.

While pushing the radio in, be careful how you fit the cables; they should not be kinked, crushed or stretched.

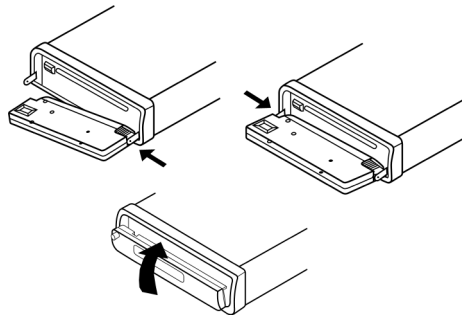


Installation

Control panel

Inserting the control panel

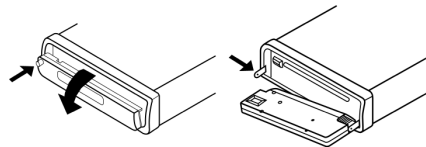
- First place the right side of the control unit with its lower right corner on the pin in the lower right corner of the frame.
- Then press the lower left side until it clicks into place.
- Flip the control panel upwards.



Check that the control panel is properly in place and secure. If the control panel is not fitted properly, error messages appear in the display and/or several keys will not function properly.

Removing the control unit

- Press the OPEN button [1].
- Push the control unit slightly to the right and pull down first the left-hand side and then the right.

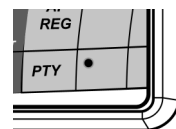


i If the control unit has not been inserted in the frame, the anti-theft LED will flash on the unit.

For protection, always keep the control unit in its case.

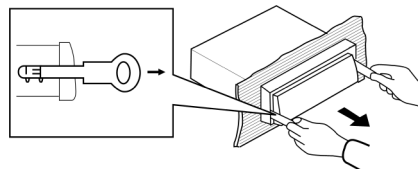
RESET

In order to start the radio working, press the RESET [21] button with the point of a ballpoint pen or something else sharp.



Removing the unit

- Remove the control unit.
- Pull out the frame.
- Insert the right and left keys in the slots on the sides of the set. The flaps will be bent back and you can remove the set.



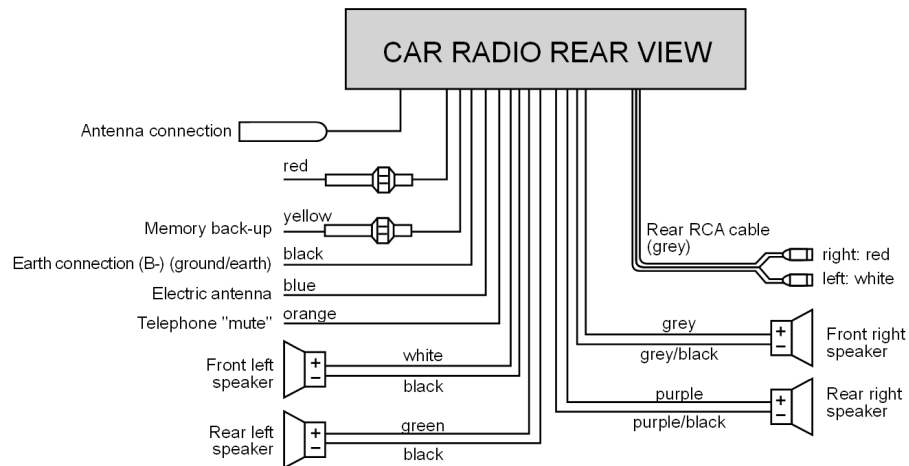
Explanation for using the cables



The explanatory notes for using the cables are intended for when the cables have to be fitted individually. Consult a specialist garage and pass on the information contained in this chapter.

To connect the radio to your vehicle's ISO plugs, you do not need these explanatory notes.

Overview of the connected cables:



Notes on fitting cables.

Memory back-up (yellow)

The yellow memory backup cable needs to be connected to the permanent plus. Otherwise the station memory will not work (see "Arrangement of the ISO block" on page 12).

Phone cable (orange)

The orange cable can be connected to a mobile phone hands-free system and is intended for use with the MUTE function.

Antenna relay cable (blue)

The blue cable is available for a relay-controlled antenna. The relay extends the antenna automatically when the radio is switched on. When it is switched off, the antenna is retracted.



Installation

This relay cable can also be used to control an external amplifier. Please refer to the amplifier's operating instructions for the correct connections.



Never connect the blue cable to the engine cable; this could damage the radio!

Arrangement of the ISO block

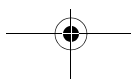
	BLOCK B – speakers	BLOCK A – electricity supply		
	1	right rear +	1	
	2	right rear -	2	
	3	right front +	3	
	4	right front -	4	Permanent plus (permanent 12V supply from main electrical system)
	5	left front +	5	Car antenna (also for external amplifiers, etc.)
	6	left front -	6	
	7	left rear +	7	Switched plus (switched 12V voltage, via ignition)
	8	left rear -	8	Earth

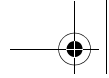
Problems due to switched cables

In some vehicle models, the standard arrangement of cables [4] and [7] in the ISO block A (see above, "ARRANGEMENT OF THE ISO BLOCK") is switched at the factory.

If this is the case in your vehicle, certain functions may be impaired: stations may not be stored properly, for example.

To solve this, the red cable (switched plus) and the yellow cable (permanent plus) will need to be reversed in the ISO block.





OPERATION

Basic operation

Switching on/off

Press the POWER button (3) to switch the radio on or off. You can also switch on the radio by pressing any other button, except OPEN and EJECT.

- Briefly tap the POWER button (3) to dim the illumination on the display through three levels.

Volume

- Turn the volume control knob (3) to turn the volume up or down.



Always set the volume so that you can still clearly hear the sirens from emergency vehicles!

Bass/treble/balance/fader

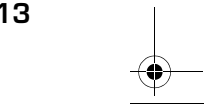
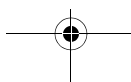
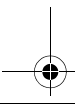
- Press the SEL (2), button to display the current bass, treble, balance and fader settings.
- You can change the settings using the volume control knob (3).

Loudness

- Hold down the BND/LOUD/ENTER button (19) to strengthen the bass.

Display

- By pressing the DSP button (11) you can change the screen display as follows:
- During radio operation:
 - Name of program
 - Time (will be set automatically when receiving RDS)
 - Frequency
 - PTY settings (these RDS functions are sent in different scope by different stations; see also Chapter "Radio functions" on page 15).
- During CD operation:
 - CD-/MP3 information
 - Time
 - Radio information
 - Frequency
 - PTY settings





Operation



If no RDS or PTY information is received *NO CLOCK* or *NO PTY* is displayed on the screen. Each notice appears for just a few seconds.

MODE

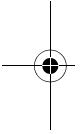
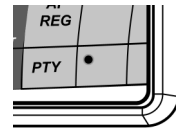
- Press the MOD button (16) to switch between radio reception, CD/MP3 operation, USB connection and card reader.

Equalizer

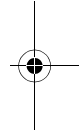
- By pressing the EQ (6) button you turn on the equaliser and choose between FLAT, CLASSICS, POP M, JAZZ or DSP OFF.
If FLAT is set, all equaliser settings are set to zero (0). DSP OFF means that Digital Sound Processing (DSP) is switched off.

RESET

- To reset the car radio to the factory settings, press the RESET button (21) with a pointed object, such as a pen.
- Press RESET (21)
 - before first use, after connecting the cable,
 - if not all function keys are working,
 - when an error message appears in the display.



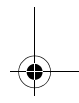
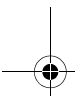
RDS clock feature



Your car radio is fitted with an RDS-controlled clock. The clock will be set automatically while an RDS station is received.

Once the unit is switched off and then on again, it will take approximately one minute for the clock time to be displayed again. The clock display will not show while the radio is tuned to a non-RDS station.

Reception of RDS signal and clock depends on location and signal strength.





Radio functions

Selecting the waveband

- Press the BND/LOUD/ENTER button (19) to switch between FM (FM1, FM2 & FM3), medium wave (MW) and long wave (LW). You can store up to 6 stations in each band.

Searching for a station

- Briefly press the TUN/TRK 8 (17) or TUN/TRK 9 (18) scan buttons. The set will search for the next station.
- Switch to manual station search by pressing one of the two buttons for two seconds. The display shows *MANUAL*.

Save station

- After the search function has found a station, press one of the 1-6 (10-15) station buttons for around three seconds. A beep will sound to indicate that the station has been stored.
The radio will switch back into automatic search mode after a few seconds.

Selecting stations

- Select the waveband by pressing BND/LOUD/ENTER (19).
- You can open one of the saved stations by pressing one of the station buttons 1-6 (10-15).

Automatic saving

- Press the AS/PS button (8) until you hear a beep. The display shows *SEARCH*. The scan stops for five seconds each time a station is found. The number flashing on the display is the number of the button which saves the station. The search continues automatically on weak stations.

Running through saved stations

- You can call up the saved stations for the current transmission areas.
- Select the waveband by pressing BND/LOUD/ENTER (19).
- Press the AS/PS button (8) briefly. All stations are now briefly selected.
- When you hear the station you require press the AMS button (8) briefly.





Operation



Regional programme mode

Some stations broadcast regional programmes.

- So that only these alternative frequencies for the required regional programmes are selected, hold down the AF/REG (22) button until a beep is heard and *RF* starts to flash in the display.
- Now briefly press the AF/REG (22) button, to select either *REG ON* or *REG OFF*. After a short time, the display changes back and *REG* appears.

PTY (Program Type Code)

- To enable the menu, press the PTY button (20).

You can now search for or select your preset stations by the following categories:

	Music genre	Voice programmes
1	POP M	NEWS AFFAIRS (Current Events), INFO
2	EASY M, LIGHT M	SPORT , EDUCATE, DRAMA
3	CLASSICS; OTHER M	CULTURE, SCIENCE, VARIED
4	JAZZ, COUNTRY	WEATHER, FINANCE, CHILDREN
5	NATION M; OLDIES	SOCIAL, RELIGION
6	FOLK M	TRAVEL, LEISURE, DOCUMENT(documentaries)

Please note that this information will vary according to region, broadcaster and station.

TA (Traffic Announcement)

- Briefly press the REC/TA button (5) to switch this mode on or off.

If the set is in TA mode and a CD is playing or USB is in use, the radio is switched on immediately if a traffic announcement is transmitted. There is an occasional switch to the EON relay station (see following section), if EON finds a traffic service on another station. The volume will be increased if it is below the threshold.

The TA function can be interrupted by pressing the REC/TA (5) button, without the TA mode being switched off.





EON-TA (Enhanced Other Network Information)

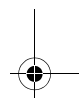
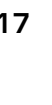
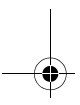
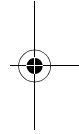
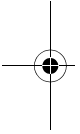
The extended other network information (EON) provides additional functions for locating a station with traffic announcements. Specifically, the set also then switches to a station with traffic announcements if you are listening to a station that does not provide any. After the announcement, it switches back to the previous station.



Please note that the EON service involves an RDS function. Not all radio stations have RDS (see following page).

EON reception setting menu

- Hold down the SEL button (2) in the radio mode. The EON reception setting menu opens.
- Press the SEL button (2) repeatedly to open the following options.
 - TA SEEK: If you leave a reception area, a search is started for the strongest TA station;
 - TA ALARM: If you leave the reception area, an alarm signal sounds;
 - PI SOUND: The radio continues during the search;
 - PI MUTE: The sound is switched off during searching;
 - RETUNE L (long): The search for a station with the correct PI code lasts for 90 seconds.
 - RETUNE S (short): The search for a station with the correct PI code lasts for 30 seconds.
 - MASK DPI: Hides the AF stations that have a different PI code;
 - MASK ALL: Hides the AF stations that have a different PI code and all interfering stations that do not have a PI but have the same transmission frequency;
 - EON-TA-LO ("EON-TA LOCAL"): Searches for traffic announcement stations from the local area.
 - EON-TA-DX ("EON-TA DISTANCE"): This mode searches for traffic announcement stations over a wider area.
 - BEEP 2ND: There is a beep if a button is pressed for a long time;
 - BEEP ALL: There is a beep whenever a button is pressed;
 - BEEP OFF: Beep off.





Operation

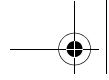
RDS (RADIO DATA SYSTEM)

RDS is a service provided by radio stations. In addition to conventional music and voice services, they also broadcast additional information in the form of encrypted digital signals and these are analysed and displayed by the car radio.


i RDS is not a very common used feature in Australia. However, there are some Australian radio stations that transmit RDS signals that could be picked up by you car radio. Please refer to the list below showing stations transmitting RDS signals. You may also refer to the following websites : www.sutclifftech.com.au/rdsinfo.htm or www.sutclifftech.com.au/rdsstations.html

Location	Station	Frequency (MHz)	PSN	PTY
Adelaide	Nova FM	91.9 , 99.1	NOVA 919	MOR MUSIC
	Mix 102.3	102.3; 96,7	MIX 102-3	Pop Music
	Triple M	104.7 ; 98,3	TRIPLE M	none
	SAFM	107.1 ; 90.3	SAFM	none
Brisbane	97 3	97.3	97 3FM	POP
	NOVA	106.9	NOVA	none
	B105	105.3	B 105 FM	Pop Music
	Triple M	104.5	TRIPLE M	Rock Music
Deniliquin		102.5	2MOR-FM	
Gold Coast	Gold FM	92.5	Gold FM	
	Sea FM	90.9	Sea FM	
Gosford	Star 104.5	104.5	STAR1045	Pop Music
Ipswich	River 94.9	94.9	River949	CULTURE
Melbourne	Fox FM	101.9	Fox FM	Pop Music
	Nova 100	100.3		
	mix 101.1	101.1	mix1011	Pop Music
	gold	104.3	gold104	other music
	Triple M	105.1		
Moree	NOW FM	98.3	NOW FM	
Sydney	2MMM	104.9	TRIPLE M	Rock Music
	2DAY	104.1	2DAY FM	POP MUSIC
	MIX 106.5	106.5	MIX106.5	Pop Music (10)
	101.7 WSFM	101.7 , 88.3 , 99.1	WSFM	OtherMusic(15)
	THE EDGE 96.1	96.1	THE EDGE	Pop Music (10)
	NOVA	96.9	NOVA969	?
Perth	NOVA	93.7	NOVA 937	
Toowoomba	CFM	?	?	?





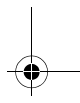
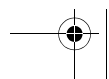
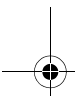
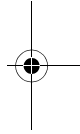
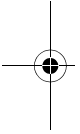
- Briefly press the AF/REGbutton (22) to switch the RDS mode on or off. On the display, you can now see the programme name and other information (traffic information, the title of the tune currently being played, etc.).

 RDS reception depends on location and signal emitted from RDS radio station.

The following different kinds of RDS services may be available:

- PI (Programme Identification Code): The PI code is used by the radio to identify the station being received.
- PS (Programme Service Name): This service allows the station's name to be displayed.
- AF (Alternative Frequencies): The car radio automatically searches for an alternative frequency for the current station with the strongest signal.
- TP/TA (Traffic Programme / Traffic Announcement): Traffic information
- EON (Enhanced Other Network Information): If there is a traffic announcement, then this enables the radio to switch to the radio station broadcasting it, even if you are currently listening to another station.
- PTY (Programme Type Code): This code enables you to search for your selected type of programme, for example a sports broadcast (see the table on page 16).

Please note that the information displayed will vary according to region, broadcaster and station.





Operation



Playing Audio CDs

ESP - Electric Shock Protection

The device is equipped with an anti-shock function. This function compensates for vibrations, for instance, from a bumpy road, and ensures playback without interruption, even if the player is moving around.. When the player is switched on, the memory is automatically filled with data:

- with audio CDs it is for 40 seconds;
- with MP3 CDs it is for 120 seconds;


Further information on playing CDs

Moisture and high humidity may cause the CD player to malfunction. If this occurs, switch on the vehicle's heater to evaporate the moisture before use.

Do not expose the CD player to extremely high or low temperatures.

Inserting and removing CDs

- Fold down the control panel (Button 1).
- Insert the CD into the slot with the labelled side upwards (25).
- Then close the control panel again. The CD will start to play. The display shows [5-CDP].
- To remove the CD open the control panel again. Press the EJECT (26) button. The CD will be ejected. The car radio will change back to radio mode.

 Do not drive with a CD sticking out of the player. Remove the CD right away.

Skipping tracks

- By pressing the TUN/TRK 8 (17) or TUN/TRK 9 (18) buttons, you can select the previous or next track on the CD. The track number is shown on the display.

Pausing the CD

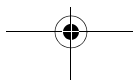
- You can pause the CD by pressing the PAU button (10). Pressing the button again will restart CD playback.

Fast forward/rewind

- Hold down the TUN/TRK 8 (17) or TUN/TRK 9 (18) buttons for longer, to start fast forward or fast rewind.

Preview tracks

- Press the SCN button (11). All tracks are played for around 10 seconds each. Pressing the button again will change the playback mode back to normal.





Repeat a track

- Press the RPT button (12) to repeat the current track. Pressing the button again will change the playback mode back to normal.

Random track playback


- Press the SHF button (13). The player will "shuffle" through the tracks, playing them in random order. Pressing the button again will change the playback mode back to normal.

Playing MP3 CDs

The basic functions are the same as those for audio CDs (refer to previous chapter). However, for MP3 CDs you can select the track and artist directly. The use of this function and other MP3-specific functions will depend to some degree on the MP3 CD itself. Please bear this in mind when producing this type of CD (refer to next chapter).

All common encodings can be played back.

Producing MP3 CDs; ID3 tags

 As with data CDs, MP3 CD-ROMs may contain individual tracks or folders. When producing an MP3 CD, please ensure that you do not save tracks on the same level as directories but only inside the directories. Mixing tracks and directories at the same level may produce playback problems.

When producing an MP3 CD you can also save so-called "ID3 tags" (we recommend using an ID3 tag editor for entries). This is a block of information stored on an MP3 CD lying "behind" the actual music information of the MP3. This may include such items as the artist, track, album name, year of publication and a short comment. The car radio can read this information block and show it on the display.

- To display the ID3 tags press DSP (9). The category changes each time you press the button: > TRACK > ARTIST > ALBUM NAME > YEAR OF RELEASE > COMMENT.

Searching for tracks (numbers)

Search for track numbers

- Press the AS/PS (8) button briefly. Now enter the desired track number using the number keys.
- Confirm by pressing LOUD/ENTER/BND (19).





Operation



Search for track name (letters)

- Press AS/PS (8) twice.
- Now you can search for the start of a track by entering a letter via the number buttons, as per the table below. When you enter a character, confirm it with SEL (2).
- Press LOUD/ENT/BND (19) to start the track search.
- If you find a directory with the selected character, you can open it with TUN/TRK 8 (17) or TUN/TRK 9 (18) and choose a track.
- Start playback again by pressing LOUD/ENT/BND (19).
- Search within the directory using TUN/TRK 8 (17) or TUN/TRK 9 (18).

Searching for directories

Searching from root directory

- Press AS/PS (8) three times. The top directory appears.
- Using the TUN/TRK 8 (17) or TUN/TRK 9 (18) buttons you can now scroll through all the directories and titles.
- Press LOU/ENT/BND (19) to open a directory or play a track.

Searching from current directory

- Press AS/PS (8) four times. The current directory is displayed.
- Using the TUN/TRK 8 (17) or TUN/TRK 9 (18) buttons, you can now scroll through the directories and titles, starting with the current one.
- Press LOU/ENT/BND (19) to open a directory or play a track.

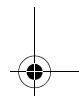
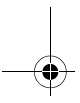
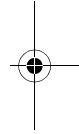
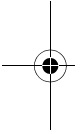
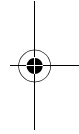
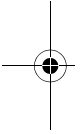




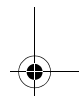
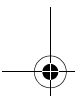
Table for MP3 searching

Key	Action
AS/PS (8)	Select search setting
BND/LOU/ENT (19)	Confirm
1 (10)	A, B, C, 1
2 (11)	D, E, F, 2
3 (12)	G, H, I, 3
4 (13)	J, K, L, 4
DIR ▼ 5 (14)	M, N, O, 5 / 10 next track down
DIR ▲ 6 (16)	P, Q, R, 6 / 10 next track up
MOD (16)	S, T, U, 7
TUN/TRK ◀◀ (17)	V, W, X, 8
TUN/TRK ▶▶ (18)	Y, Z, space, 9
SEL (2)	Shift character 1
DSP (9)	0, _, -, +
Knob (3) upwards/downwards	Scroll through all available letters and numbers



WMA files

This player can also play WMA files. The operation functions in the same way as for MP3 files.





USB CONNECTION

Playback

You can connect an MP3 player or another data medium to the USB connection on the front of the unit.

Your car radio can process USB data media up to 1GB.


The directory structure may contain up to 1024 folders, 4096 files and a directory depth of 8 levels.

- Remove the protective cover from the USB connection (7).
- Connect your USB device to the socket. The radio will search for MP3 or WMA files on the storage medium and *USB* will appear on the display.
- Search and playback functions for files on an external storage medium work in the same way as for MP3 CDs.
- If the device is in another mode (CD or card reader), you can select the card reader with the MOD (16) button.
- Replace the protective cover on the USB connection when no USB device is attached to prevent dirt from getting into the system.

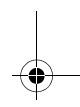
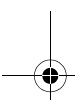
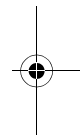
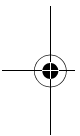
Recording

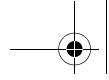
You can also use your radio to record data from the radio and the CD player onto the external USB data medium or an SD/MMC card. In this, the USB medium has priority.

- In order to begin recording, press the REC/TA (5) button in the correct mode. Audio data are now saved to the USB drive in WMA format. During recording *FILE NAME* will appear on the display.
- To stop recording, briefly press the REC/TA (5) button again.

 If the USB storage medium is full, the recording will automatically switch to the card reader, if a card has been inserted (see following chapter).

You can play back the data by switching to the USB mode with the MOD (16) button and entering individual titles from the USB drive.





CARD READER

Your car radio has a card reader for SD cards and multimedia cards (in the upper part of the control panel).

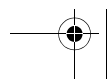
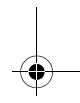
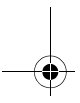
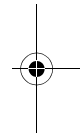
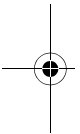
Playback

- Remove the control panel.
- Insert a memory card into the drive with the label side facing upwards. Playback of MP3 or WMA files on the card starts automatically.
- The controls for playing files are exactly the same as for MP3 CDs.
- If the device is in another mode (CD or card reader), you can select the card reader with the MOD (16) button.

Recording

You can use your radio to record data from the radio and the CD player onto a memory card.

Recording works in the same way as described in the section "USB connection".





TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SUGGESTIONS
The device cannot be switched on.	The ignition is not switched on.	Switch on ignition by turning the key.
	One of the fuses is defective.	Replace the fuse.
The CD cannot be loaded or is ejected.	There is already a CD in the car radio.	Remove the CD.
	The CD has been put in the wrong way round.	Insert the CD with the label upwards.
	The CD is dirty or damaged.	Clean the CD or insert another CD.
	The temperature in the car is too high.	Wait until the environmental temperature has become normal.
	Condensation!	Switch the car radio off for a few hours and then retry.
No sound!	The volume has been set to minimum.	Increase the volume.
	Cables are not properly connected.	Check the cable connections
Function buttons do not work.	The integrated microcomputer cannot work because of interference.	Press the RESET button (21).
	The control panel is not properly fitted.	Check the correct fitting of the control panel.
The CD skips.	The installation angle is more than 30°.	Correct the installation angle.
	The disc is very dirty or damaged.	Clean the CD or insert another one.
	Errors on CDs you have burned yourself.	Check the CD in another playback device.
Radio and/or automatic search do not work.	The antenna cable is not connected properly.	Check that the antenna cable is properly inserted.
	The transmission signals are too weak.	Set the station manually.





Station memory does not work.	The cable for the permanent plus (yellow) is not connected properly.	Check the cable connections For this, refer to Chapter "What's in the box?" on page 6.
Device connected to the USB connection does not work.	The USB connection is intended for devices that conform to the USB standard. Not all devices available on the market comply with this standard. It is possible that a non-standard USB device is connected.	Connect a device that complies with the USB standard.
Card reader is not reading the card	Card is possibly damaged, dirty or incorrectly inserted.	Check the card. Insert it with the label side upwards.

DISPOSAL INFORMATION

Packaging



All packaging and packaging materials that are no longer required can and should be recycled.

Device



At the end of its life, the radio should not be disposed of as household garbage. Enquire about the options for proper, environmentally-friendly disposal.





TECHNICAL DATA

GENERAL

Operating voltage:	DC 12V, negative earth connection
Casing dimensions:	178 x 165 x 50mm (W x D x H)
Output power:	4 x 40 Watt max (peak music output)
Fuses:	0.5 amp (red); 15 amp (yellow)

RADIO (frequency ranges)

FM:	87.5 – 108 MHz
AM:	522 to 1620 kHz
Long wave (LW):	144 to 288 kHz

CD/MP3 PLAYER

Laser output:	Class 1 laser product
Frequency range:	40Hz – 18kHz
MPEG rate	64 - 320kbps
MP3 playback	ISO 9660 & Joliet MP3 format



SUPPORTED FORMATS

CD:	Audio-CDs, CD-Rs, CD-RWs
USB storage medium:	1.1 and 2.0 up to 1 GB
Memory cards:	SD up to 1 GB MMC up to 512 MB



These days there are many non-standard CD recording and copy protection procedures in use and a wide range of CD-R and CD-RW discs on the market. This can occasionally lead to read errors or delays. This does not mean the device is faulty.

Subject to technical changes!

