XOMAX

car radio and MP3 player

RoHS COMPLIANT

PAP

XM-R277

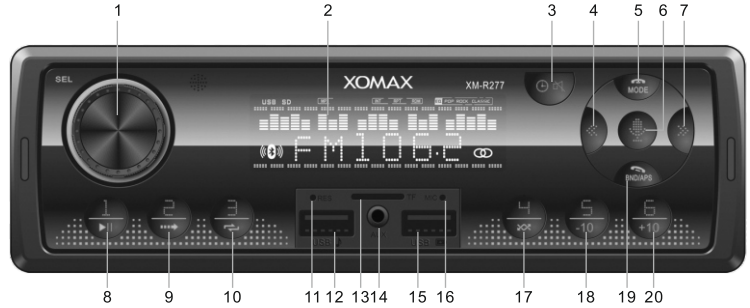
XOMAX

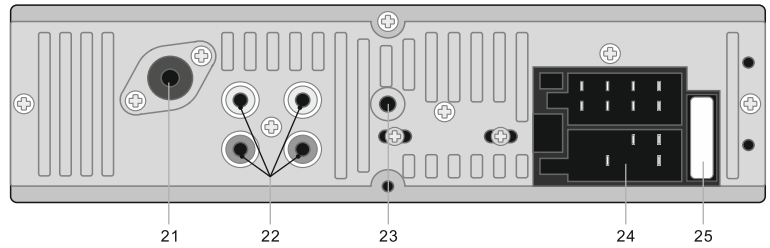
XOMAX

instruction manual

XM-R277

XOMAX





1.	volume control and menu control
2.	VA-LCD display
3.	clock / muting speakers
4.	scrolling backward/last song
5.	switching on and off / operational mode change / ending call
6.	Voice Recognition
7.	forward/next song
8.	1. radio storage / play / pause
9.	2. radio storage / song intro
10.	3. radio storage / repeat
11.	factory reset
12.	USB Media

13.	SD card socket
14.	3,5 mm stereo connector socket
15.	USB Charging
16.	built-in microphone
17.	4. radio storage / random order
18.	5. radio storage / x 10 scrolling backward
19.	station search / FM1-3 bands AM1-2 bands / receiving call
20.	6. radio storage / x 10 scrolling forward
21.	DIN antenna socket
22.	stereo audio output
23.	Mounting hole
24.	power supply and speaker connectors
25.	Fuse

Before using the product for the first time, please read the instructions for use below and retain them for later reference. The original instructions were written in English language. This appliance may only be used by persons with impaired physical, sensory or mental capabilities, or lacking in experience or knowledge, as well as children from the age of 8, if they are under supervision or have been given instruction concerning use of the appliance and they have understood the hazards associated with use. Children should not be allowed to play with the unit. Children may only clean or perform user maintenance on the appliance under supervision. After unpacking the unit, confirm that it has not been damaged during transit. Keep the packaging away from children if it contains plastic bags or other potentially hazardous components.

MAIN QUALITIES

• BT / FM / MP3 / USB / SD / AUX • Wireless BT connection • Listening to music from mobile phone • Controlling the mobile phone's music player • Built-in, sensitive microphone • Phone calls without touching the phone • Ringtone and conversation on car speakers • Displaying the caller's number on the screen • When there is an incoming call, the car radio will charge into BT mode • Receiving calls / ending / calling back • Excellently readable LCD display • The exact time is also shown in switched off state • 18 FM memories • Manual or automatic tuning and storing • Playback modes: song playback, repeat, random order • Handling folders, scrolling • Tone, loudness and EQ sound settings • Tilt protection cover on the USB socket • 4 x 45 W Hi-Fi speaker output • 3,5 mm AUX input for portable devices • 4 x RCA socket amplifier, to connect an active subwoofer • Remote control (CR2025, 3 V button battery, included)

RESETTING THE APPLIANCE

It is necessary to erase the microprocessor data after any event when the power supply was interrupted or the appliance (including the display) is malfunctioning. To do this, press the **RESET** button on the front panel with a thin, pointed object for 2 seconds. The appliance switches off and returns to the factory default setting. This operation is required after installation, even before the first power-up, and when the battery is replaced in the vehicle.

SWITCHING ON AND OFF

In case of proper connection, the exact time is visible on the switched off display. To switch it on, briefly press the ⏻**/MODE (13.)** button. To switch off, press and hold it for 2 seconds, and after the **BYE** greeting, the clock will be displayed. You can change mode with a short press: FM radio – USB or SD MP3 playback – BT connection – AUX IN input.

- *Later on, it will automatically switch to the most recently used function after being switched on unless the external storage device has been removed in the meantime.*
- *Since starting the engine of a vehicle may cause voltage stoppages, only switch on the unit when the engine is running. Turn it off before turning off the engine.*

SETTING THE MENU, THE VOLUME AND THE TONE

Use the **rotary knob (5.)** to set the desired volume: VOL 00…63. Keep pressing the **rotary knob** shortly, until the indication of the volume, tone or other function you want to set appears on the display. You can then modify the setting by rotating – within a short period of time – the knob.

- *The available audio and other settings:* ***VOL****: volume /* ***BS****: bass /* ***TR****: treble /****B****: right-left channel balance /* ***F****: front-rear channels /* ***LD****: bass boost on-off /* ***EQ****: on-off and its modes (EQ OFF-FLAT-ROCK-POP-CLASS-JAZZ-EQ OFF…) /* ***ST****: stereo-mono reception /* ***DX/LOC****: long distance or local reception*
- ***EQ ON****: in case of switched on EQ mode, the traditional treble-bass (* ***TREBLE-BASS****) equalizer is not available, or when it is used, the* ***EQ*** *mode switches off automatically* ***EQ OFF****).*
- *When listening to it at a higher volume, do not emphasize the deep and high tones significantly, because it may lead to distortion!*

SETTING THE COLOR OF BUTTON

keep pressing the ***rotary knob (5)*** *shortly until the "AUTO" appears on the display . Choose the color (Red-White-Blue-Green-Yellow-Purple-Azure) or AUTO display by rotating the* ***Knob (5)***

LOUDNESS - PHYSIOLOGICAL TONE ADJUSTMENT

The human ear senses the low and high frequency sounds less at a lower volume. By activating **LOUDNESS** (in the menu **LD**) function, this effect is corrected at a lower volume by the automatic volume-dependent equalizer. The lower the volume is, the greater the extent is of low and high frequency emphasis. It is recommended to switch it off at higher volume levels, as it may cause distorted sound.

- *In order to get better sound quality, before using this function it is recommended to choose EQ OFF setting, and set the high/low equalizers to „0" position.*
- *The larger the volume is, the less noticeable effect is on the automatic tone correction.*

SETTING THE EXACT TIME AND MUTING THE SPEAKERS

Switch on the unit with the ⏻**/MODE (13.)** button, then hold pressed the **CLK/**🔇 button for 2 seconds. The clock appears on the display. Before it disappears, press the **CLK/**🔇 button again for 2 seconds and the clock display starts flashing. Use the rotary switch to set the number of hours and then press the rotary switch for fixing and stepping forward to minute-setting. While the minute display is flashing, set it with the rotary knob. Finally, wait for 4 seconds to automatically record the the setting and exit. While the minute display is flashing, set it with the rotary knob. Finally, wait for 4 seconds to automatically record the setting and exit.

- *If you wait more than 3 seconds while settings idly, the appliance exits the menu.*
- *In switched off state, the exact time is visible on the display.*
- *In switched on state, press and hold the* **CLK/**🔇 *button for 2 seconds to display the exact time for 4 seconds.*
- *Pressing the* **CLK/**🔇 *button briefly mutes the speakers and* ***MUTE*** *message keeps flashing on the display. Press briefly again to switch the sound back on.*

SELECTING THE FUNCTIONS AND THE SIGNAL SOURCE

You can select the signal source you want to listen to by pressing shortly the ⏻**/MODE** button. Attention, the appliance switches off for longer press! The available options:

FM radio – USB or SD MP3 playback – BT connection – AUX IN ∅3,5 mm input

- *The source cannot be activated if it is not available. For example, if there is no storage device connected to the corresponding files (songs, photos, movies). Or if no mobile phone is paired, the BT features will not work.*
- *If there is an external unit connected to both the* ***USB*** *and* ***SD*** *sockets at the same time, then you can select with the* ⏻**/MODE** *button from the* ***USB*** *or* ***SD****options. Basically, the use of the* ***SD*** *card is recommended because of its smaller space requirement and its safer placement.*
- *After the connection, the last inserted external unit's program is played.*
- *When the power is turned on, the last played track will resume if during the device has not been removed.*

USE OF THE RADIO

After the unit is switched on the radio will turn on if it was being previously listened to – or the last played USB/SD/BT signal source has been removed. Select radio function with the front panel's ⏻**/MODE** button.

SELECTING THE RECEPTION AREA

The last points of the menu available with the short press of the knob:

- ***ST****: stereo-mono reception; set it to mono, if the reception is noisy*
- ***DX/LOC****: long distance or local reception, set it to a more sensitive DX mode if reception is weak, but to LOC mode, if you are listening to a nearby local radio station*

SELECTING THE STORED RADIO STATIONS

Keep pressing the **BND** button shortly to select the desired band **(FM1-FM2-FM3**, **AM1-AM2)** then with the number buttons **1…6** select the desired program. The display shows the following information: **F1…F3/P1…P6**, where F1…F3 are the available three FM bands, the P1…P6 are the numbers of the 6-6 radio programs can be recorded per band. A total of 18 FM radio stations can be memorized.

AUTOMATIC TUNING AND STORING

Press the **RESET** button for 2 seconds with a paper clip to access the factory setting. Then press and hold the **BND** button for two seconds, to automatically locate and store the radio stations, which are receivable at the place of use. The tuning and storing process can be monitored on the display. All available frequencies are checked. The better the reception conditions are, the more programs it will find. After checking the full bar, the appliance introduces shortly all of the stored stations.

- *After the tuning has finished, a few seconds long intro will be audible from each stored radio station. Introduction function can be switch off by pressing again the AMS button.*
- *Take into consideration that unit will skip stations with weaker reception, and the stations may be stored in a different sequence what you have defined. It is possible that it detects disturbing signs as radio stations because of their greatness.*
- *Select manual tuning and memorization to suit your needs.*

MANUAL TUNING AND STORING RADIO STATIONS

If you know the exact frequency of the program you want to listen to, or you want to fine tune the previously set radio station, you should do manual tuning. Select one of the **F1-F2-F3** FM bands by briefly pressing the **BND** button on the front panel. (recommended: F1) Keep pressed the scroll forward or backward buttons for 3 seconds, until **MANU** (manual fine tuning) sign can be read. After this, by keep pressing the scroll forward or backward button shortly, you can scroll the frequency slowly. After tuning the desired radio station, press and hold one of the 1…6 buttons to store the station. The display shows for a short period of time the current FM band (F1-F2-F3) and the memory space used inside it (P1…P6). Programs already stored can be selected using the number buttons. The display shows the current FM band and the storage inside it. For example F2-P6; on FM2 band the program 6. is selected.

- *If you do not press any button for 3 seconds in manual fine tuning mode, then the radio switches back to automatic tuning after the AUTO subtitle appears – this is the default setting. It tunes then automatically to the next radio station, then stops.*
- *Totally 18 FM radio station can be memorized on FM1-FM2-FM3 bands. In every case, 6-6 stations are storable. When storing e.g. you have chosen FM2 band 4. place, select the FM2 band first (BAND) and then press the 4. button.*
- *If a memory location is already occupied, the contents will be deleted and the new transmit frequently will be stored.*
- *If you use a unit at a distance greater than the tuning location – e.g. when travelling – you may have to search for the same radio station again on another frequency. The different geographical areas transmit the same programs on different frequencies!*

USE OF THE WIRELESS BT FUNCTIONS

The appliance can be paired with another appliance which is communicating by BT protocol. After that, music which is played by mobile phone, tablet, notebook and other similar device is audible amplified. In case of incoming call, it is possible to answer it, make it hands-free and end it without touching the phone. The car radio has a built-in microphone to be used for phone calls. Try to talk in the direction of it (top right corner), so that your conversational partner can hear you even better. Make sure the windows are closed during call, as the trip noise significantly impedes the clarity of the speech.

The following extra functions are available: the switched off – but previously already paired– radio switches on and changes into **BT** mode, if there is an incoming call. The caller's number is shown on the display after the **CALL** message, while the ringtone can be heard through the car speakers. By handling the car radio, it is possible to reject a call (⏻**/MODE**), answer a call (**BND**), end a call (⏻**/MODE**), start a call to the last called number Press the **BND** button for this last. The phone dials the number if the screen is not locked. During a conversation, the radio measures the conversation time.

ATTENTION! *If you keep pressed the* **BND** *button for 2 seconds in BT mode, then the messages* ***BT-ON*** *and* ***BT-OFF*** *refer to the switched on and switched off state of the wireless connection.*

CONNECTING: Select the **BT** mode with the ⏻**/MODE** button. On the display the BT abbreviation is visible and a small **BT** symbol is flashing. Search for the nearby **BT** devices to be paired, including this car radio in the way it is written in its instruction manual. Connect the two devices together. After that, you can hear the phone conversation or the music played on the phone from the car speakers. In case of successful connection, the BT symbol is constantly lighting and the **BT ON** message is visible. In case of active mobile device, the message changes to , **A2DP**". You are now ready to receive music played on your phone wirelessly. Set the desired volume on your phone, too.

- *If you hold pressed the rotary knob for two seconds, then you rotate it, you can control the BT volume between the BT00…BT40 settings. The BT40 setting is recommended.*
- *To make a call to the last number: in case of double SIM phone, depending on its settings you may need to confirm the call on your phone. This can be avoided by setting the phone correctly (depending on the type).*

Start playing with the music player of the phone, and the music is audible through the car speakers. In case of incoming call, you can answer it with the **BND** button of the radio or decline it with the ⏻**/MODE** button; while the music is paused.

- *The music player application launched on the phone can be remotely controlled using the radio playback and scroll buttons.*
- *One radio can be paired with one BT device at the same time. Actual operation range depends on the other device and environmental conditions (approx. 5 m)*
- *Volume and sound quality of BT connection is affected by the audio settings of connected mobile phone.*
- *Occasionally, you may find that certain characters appear incorrectly or not at all. This is mainly affected on the special or accented characters and not the fault of the device.*

PLAYBACK – FROM USB/SD STORAGE

If you wish to listen to music from a **USB/SD** source instead of listening to the radio, simply connect the external storage. The unit will detect this and start playback automatically. On the display the **USB** or **SD** denomination is shortly visible, then , **F** " (Folder) and „**T**" (Track) the actual folder, and the number of the song. The time elapsed from the current track can be read during playback. By pausing the playback with **1/PLAY/PAUSE (10.)** button, **PAUSE** appears. The available functions of the MP3 player:

(13.) ⏵⏸ : playback or pause

(5.) ⏮ ⏭ : press the buttons briefly to reach the previous or next track. Keep them for quick search within the song, while the speakers mute.

(17.) -10/D-: scroll 10 soundtracks backward / scroll in the folder system backward

(18.) +10/D+: scroll 10 soundtracks forward / scroll in the folder system forward

(14.) INTRO: song intro; 10 seconds playback from the beginning or every song, cab be switched off by pressing it again

(15.) REPEAT: one song (ONE), one folder (FOLDER) or repeating every songs (ALL)

(16.) RANDOM: random order playback, can be switched off by pressing it again

- *Recommended file system of memory is: FAT32. Do not use memory unit with NTFS format!*
- *If the unit does not emit sound or the USB/SD memory is not recognized, remove and reinsert the memory. If this is ineffective, try to choose the source with the MODE button. If necessary, turn off and back on or press the RESET button on the front panel.*
- *If the unit cannot recognize the files or one part of them, copied on the external storage, then proceed as described in the previous paragraph, or you can insert the USB/SD unit to the device which is already switched on; at that time the system will read in and update the entire content of it.*
- *Remove the storage only, when you switched to a source different from USB/SD/ memory (e.g. radio) or the device has switched off! Otherwise the data can get injured.*
- *It is forbidden to remove the connected external storage during playback!*
- *By inserting the memory unit, playback will start from the first track. If you have listened to it previously, and it hasn't been removed, then the playback will continue from the last played track, even if the device has been switched off in the meantime.*
- *USB and SD unit can be inserted only in one way. If it would get stuck, turn it over and try again, do not force!*
- *Pay attention to the storage, extending from the device not to disturb you in safe driving, and do not shove or break it! It is recommended to use SD card preferably, since it can be used more safely.*
- *If you leave the external storage in the vehicle in extreme hot or cold, it can get injured.*
- *Unique features of the external storage can cause abnormal operation, this is not a malfunction of the unit!*

AUX IN – STEREO SOUND INPUT

With the help of a stereo plug with 3,5 mm diameter, you can connect such external device to the AUX socket, located on the front panel, which has earphone/audio output. You can listen to this portable device through the speakers of the car in high sound quality, if you select with ⏻**/MODE** button the AUX IN operation mode. Connectable devices with wire: e.g.: mobile phone, multimedia player, CD/DVD player, navigation…

- *It is important to have proper settings of playback device to achieve high sound quality.*
- *Purchasing of external adapter may needed to connect such devices which have audio output different from 3,5 mm diameter.*
- *For further information, check the instruction manual of device to be connected.*

CONNECTING AN EXTERNAL AMPLIFIER AND AN ACTIVE SUBWOOFER

The 4 x RCA stereo audio output is located on the back of the unit. The white and red RCA sockets are the outputs of the left and right audio channels. It ensures that you connect an external amplifier or an active subwoofer with a low level input (LINE IN). This way you can improve the volume and sound quality. Nominations: LF: front left, RF: front right, LR: rear left, RR: rear right sound channels

REMOTE CONTROL FUNCTIONS

In order to install the remote control, please remove the insulating film extending from the battery compartment, if the product is equipped with one. If operation becomes unstable or the range decreases, please replace the battery with a new one: CR 2025; 3 V button cell.

- *When using the remote control, aim it toward the unit's display from a maximum distance of 2 meters!*
- *In order to replace the battery, turn the remote control facing the buttons down then pull out the battery tray with the battery. Make sure the positive terminal of the inserted battery faces upward. Follow the directions on the backside of the remote control!*
- *WARNING! IMPROPER BATTERY REPLACEMENT CAN CAUSE RISK OF EXPLOSION! BATTERY MAY REPLACED WITH SAME OR REPLACING TYPE ONE! DO NOT EXPOSE THE BATTERY TO DIRECT HEAT AND SUNSHINE AND DO NOT THROW IT TO FIRE! IF THERE IS SOME LIQUID FLOWN OUT FROM THE BATTERY, TAKE A PROTECTIVE GLOVE AND CLEAN THE BATTERY HOLDER WITH A DRY CLOTH! KEEP THE BATTERY OUT OF REACH OF CHILDREN! IT IS FORBIDDEN TO OPEN, BURN, SHORT CIRCUIT AND CHARGE THE BATTERY! RISK OF EXPLOSION!*
- *THIS PRODUCT CONTAINS BUTTON CELL. BATTERY MUST NOT BEEN SWALLOWED, RISK OF CHEMICAL BURN! IN CASE OF SWALLOWING, IT WILL CAUSE STRONG INTERNAL BURN AND CAN LEAD TO DEATH! KEEP THE NEW AND USED BATTERIES OUT OF REACH OF CHILDREN! IF THE COVER OF THE BATTERY HOLDER CAN NOT CLOSE SAFELY, DO NOT USE THE PRODUCT AND KEEP OUT OF REACH OF CHILDREN. IF YOU THINK THE BATTERY HAS BEEN SWALLOWED OR GOT INTO ANY OF BODY PART, CONSULT A DOCTOR IMMEDIATELY!*

⏻	switching on and off
🔇	muting speaking
MODE	eading call or dedining it /RADIO/USB/SD/BT/AUX
BAND	receiving call, cailing back /selecting wave band
1 / ⏵⏸	playback/pause (1. radio program)
2 / INT	soundtrack intro
3 / RPT	repeating the actual or all of the songs
4 / RDM	random order playback
5/-10 DIR-	10 scrolling backward
6/+10 DIR+	10 scrollign forward
EQ	tone settings
VOL+	increasing volume
VOL-	decreasing volume
⏮	scrolling back
⏭	scrolling forward
SEL	sound setting functions
AMS	automatic station search
BAND	selecting wave band
DISP	displaying the clock

WARNINGS

- Before starting to use the player, read these instructions carefully, then keep them in an accessible place for future reference.
- Seek professional assistance if necessary to prevent damaging the unit or motor vehicle!
- Depending on the compressed files, the MP3 compression program used, and the quality of the USB/SD memory, anomalies may occur during playback, which are not due to the unit malfunctioning.
- The playback of copy righted DRM files is not guaranteed!
- Do not store any additional files on the USB/microSD device other than playable files, because they can slow down or interfere playback.
- Do not connect mobile phone, navigation … with the USB socket!
- Do not store data storage in the vehicle if it is exposed to freezing or extremely high temperatures!
- While underway, do not do anything that distracts your attention from driving. Handling the player while driving can result in accidents. Spend the minimum time watching the display!
- Do not listen to the player too loud. Set a volume that allows you to hear external sounds while driving. Extreme volumes can also cause permanent damage to your ears!
- Do not disassemble or remake the player, as that can cause fire, accidents, or electric shock. Incorrect use or installation renders the warranty void.
- Only for use in cars with a 12 V battery and a negative ground. Using the player for any other purpose can result in electric shock, damage, or fire. The player was designed exclusively for use in vehicles!
- Always use melting fuses with the proper values. When replacing a fuse, make sure that the new fuse has the same nominal value as the one you are replacing. Using a different fuse can cause fire or damage.
- Do not block the player's cooling vents, as that can cause its circuits to overheat, resulting in fire. Install the player properly to ensure adequate ventilation. The air vents around the edge must be left free.
- Make sure to connect the player correctly. Incorrect connections can result fire or other defaults.
- Prior to wiring/installation, be sure to remove the car battery's negative terminal connection! This will prevent any electric shock, short circuit or malfunction.
- While installing the player never cut through cables or damage their insulation. Doing so can result in short circuit and fire!
- Before drilling holes or inserting screws into your vehicle's body make sure you do not damage tubes or electric wires on the other side of the cover…
- Do not connect to any electric systems of your vehicle that operate steering, brakes, or any other safety function. Doing so can result in loss of control over the vehicle, and can cause fire.
- Do not install the player or its accessories in a location where they can prevent you from controlling the vehicle safely, e.g., nearby the steering-wheel and the gear shift.
- Make sure that wires do not coil around neighboring objects. Arrange cables and wires in a way that does not hinder you in driving. Wires that interfere with your movement or hang over the gear shift, the brake etc. can be extremely dangerous.
- In case of any malfunction, turn of the player immediately, and consult your distributor. Many malfunctions are very easy to detect (e.g., no sound, bad smell, smoke, an external object inside the product etc.).
- Make sure that no external objects get into the USB socket or the memory card slot, as these can cause fatal damage.
- Protect it from dust, damp, liquids, heat, moisture, frost and impact, as well as direct heat or sunlight!
- When leading the connection cables make sure that their insulation does not get damaged by any sharp metal objects nearby!
- Do not connect any cables when the device is working. Never turn on the system with the volume at the maximum level! Cracking or other noise impact occurring that time can immediately damage the speakers irreparably!
- The warranty is not applicable to damage caused by irresponsible or improper installation or use!
- Only for use in cars with a 12 V battery and a negative ground. Using the player for any other purpose can result in electric shock, damage, or fire. The player was designed exclusively for use in vehicles!
- Due to continuous improvements, the technical data and design may change without any prior notice.
- The actual instruction manual can be downloaded from www.somogyi.hu website.
- We don't take the responsibility for printing errors which may occur, and apologize for them.

PRECAUTIONS

Cleaning

Use a soft, dry cloth and a brush for regular cleaning. To remove stronger stains, wet the cloth slightly with water. Avoid scratching the display's surface; never wipe the display when it is dry, and do not use a rough cloth to clean the display! Do not use any detergents! Make sure no liquid gets inside the product or onto the connectors!

Temperature

Before turning on the player make sure that the temperature inside the car is between 0 C and° +40 °C, as the product is only guaranteed to operate properly within this temperature range. Extreme weather conditions can damage the product.

Location, installation

When installing the product, make sure it will not be exposed to any of the followings:
- direct sunlight or heat (e.g. from the heating system), - moisture, high humidity, - a significant amount of dust, - strong vibration

Warning! *Manufacturer doesn't take responsibility for lost or damaged data, even if these data, etc. have been lost during the use of this product. It is recommended to make a safety copy about the data, tracks –located on the data storage- to your computer.*

INSTALLATION (ONLY A SPECIALIST CAN INSTALL IT!)

- Depending on the vehicle's design, additional metal straps or other means of fastening may be required. The manner of installation may differ from the instructions depending on the vehicle model!
- Connect the unit's wires according to the instructions. Inspect the connectors in the vehicle for suitability according to the wiring instructions in this manual. Make sure that the connections are properly made and free of short circuits. The speaker wiring should be conducted properly!
- It is prohibited to connect any of the speaker wires to the vehicle's or batteries negative terminal/ grounding point! (e.g. black power cable or metal point on the vehicle)
- In order to protect audio system from external noises:
  - Locate the device and lead the cables at least 10 cm far from the car dashboard-cables.
  - Keep the battery power cables as far from any others as you can.
  - Grounding cable should be connected securely to a clean surface of the car chassis, free from paint, dirt and grease.
  - In case of connecting noise reductor, place it as far as possible from the unit, in case of noise reduction connection.

CONNECTING SPEAKERS

In some cases, increasing the volume will not proportionally increase the bass level. This is dependent on the number of speakers used and their positioning, moreover, a speaker in the vehicle might also be wired out of phase.

1. When two front speakers are used:

- *Reverse the +/- polarity of either the right or left front speaker (the wires leading to either speaker should be reversed anywhere between the radio and the speaker).*

2. When four speakers are used:

- *A., If both the front and rear speakers are built into the doors (or otherwise isolated from each other, such as in a sound box), then the polarity of either speaker in both the front and rear should be reversed.*
- *B., If the front speakers are built into the doors but the rear speakers are built into the hat rack panel, then only the polarity of either front speaker should be reversed. The rear speakers' wires should remain unaltered.*

XM-R277

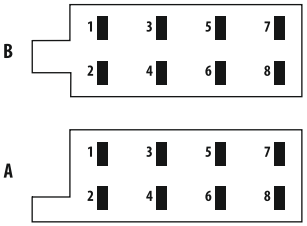
car radio and MP3 player

FM TUNER	
FM freq. range	87,5-107,9MHz
FM preset	18 x FM
Usable sensitivity	2,0 µV
Channel separation	>42 dB
Signal/noise level	>53 dB
USB/SD	
USB system	USB 2.0
Max. current	500 mA only for pendrive
File system	FAT 16/32, max.32GB
MP3 decoder	MPEG-1/2 AUDIO Layer-3
Number of channels	2-CH, stereo
Channel separation	>66 dB
Signal/noise level	>79 dB
Supported audio format	MP3/WMA/APE/FLAC

GENERAL PARAMETERS	
Car Voltage system	12 Volt Negative GND chassis
Operation Voltage	14,4 V DC (11 -15 V)
BT version	V2.1 + EDR / 5.0m
BT profiles	A2DP, V1.2, AVRCP, V1.4
AUX Input	3,5 mm stereo socket
Channels of amplifier	4 CH
Power output	4 x 45 W max.
Speaker impedance	4 – 8 Ohm
Frequency range	20 - 20.000 Hz
Pre-amp output	1,8 V max. (2+2 x RCA)
Fuse	F10A
T operation	0°C …+40°C
Weight	405 g
Chassis dimensions	178 x 50 x 110 mm

POWER CONNECTION FOR THE BLACK ISO PLUG

A/1. No connection
A/2. No connection
A/3. No connection
A/4. Battery direct connection for memory, +12 V (yellow)
A/5. Remote only for motor car antenne or amplifier REM, +12 V (blue)
A/6. No connection
A/7. Ignition switch, +12 V (red)
A/8. Battery / Chassis GND (black)



CONNECTION OF 4 SPEAKERS FOR THE BROWN ISO PLUG

B/1. Speaker Out Right Rear +
B/2. Speaker Out Right Rear -
B/3. Speaker Out Right Front +
B/4. Speaker Out Right Front -
B/5. Speaker Out Left Front +
B/6. Speaker Out Left Front -
B/7. Speaker Out Left Rear +
B/8. Speaker Out Left Rear -

Do not connect any speaker cable to the GND of the car or the battery (with the black cable or chassis)!