

Owners Manual



MONITOR RECEIVER



MODEL: GMV651BT

Please read through the manual before using the unit

www.gascaraudio.com



- ① Microphone
- ② Infrared receiver for remote control
(Remote is optional)
- ③ Power key
Short press: Switch on device
In operation: Press to mute audio source
Long press: Switch off device
- ④ Volume increase key
Short press: Increase volume step by step
Long press: Increase volume automatically
- ⑤ Volume decrease key
Short press: Decrease volume step by step
Long press: Decrease volume automatically
- ⑥ Media SD Card Slot
The card reader supports microSD cards on which audio/video files are stored.
- ⑦ AUX for audio input
- ⑧ Reset button
Restore to default factory settings of the device. Caution! All personal settings will be lost!
- ⑨ USB Slot
- ⑩ Touchscreen user interface

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Safety notes

The car audio system was manufactured according to recommended and established safety guidelines in a state of the art facility. Even so, dangers may occur if you do not observe the safety notes in these instructions.

These instructions are intended to familiarize you with the most important functions. Detailed familiarize information can be found by contact dealer.

- ⚡ Read these instructions carefully and completely before using the car audio system.
- ⚡ Keep the instructions at a location so that they are always accessible to all users.

In addition, observe the instructions of the devices used in conjunction with this car audio system.

Symbols used

These instructions employ the following symbols:



Warns about injuries



DANGER!

Warns about high volume



The CE mark confirms the compliance with EU directives.

- ➡ Identifies a sequencing step
- Identifies a listing

Road safety

Observe the following notes about road safety:

⚡ **Use your device in such a way that you can always safely control your vehicle.** In case of doubt, stop at a suitable location and operate your device while the vehicle is parked. As the driver, you may not use the applications that will distract you from traffic (depending on the scope of functions of the device, e.g. viewing videos etc)

⚡ **Follow driving recommendations during the route guidance only if you are not violating any traffic regulations!** Traffic signs and traffic regulations have always priority over driving recommendations.

⚡ **Always listen at a moderate volume** to protect your hearing and to be able to hear warning signals (e.g. police sirens). During mute phases (e.g. when changing the audio source), changing the volume is not advisable. Do not increase the volume during this mute phase.

General safety notes

Observe the following note to protect yourself against injuries:

Do not modify or open the device.

Use as directed

This car audio system is intended for installation and operation in a vehicle with 12 V vehicle system voltage and must be installed in a 2DIN slot. Observe the output limits of the device. Repairs and installation, if necessary, should be performed by a specialist.

Installation instructions

You may only install the car audio system yourself if you are experienced in installing car audio systems and are very familiar with the electrical system of the vehicle. For this purpose, observe the connection diagram at the end of these instructions.

Declaration of conformity

We declares that the device complies with the basic requirements and the other relevant regulations of the RED Directive 2014/53/EU.

Cleaning notes

Solvents, cleaning and scouring agents as well as dashboard spray and plastics care products may contain ingredients that will damage the surface & screen of the audio system.

Use only a dry or slightly moistened cloth for cleaning the car audio system.

Disposal notes



Do not dispose of your old unit / batteries in the household trash.

Use the return and collection systems available to dispose of the old device, the remote control and exhausted batteries.

Warning

The remote control is supplied with a coin/button cell battery. If this button is swallowed, it can cause severe internal burns & can lead to death in 2 hours.

Keep new & used batteries away from children.

If the battery compartment does not close securely, stop using the product & keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Scope of delivery

The scope of delivery includes:

- ✎ Car audio system
- ✎ External Bluetooth microphone
- ✎ Getting started
- ✎ Small parts set
- ✎ Installation material

Placing the device in operation

Caution!

Transport securing screws

Ensure that the transport securing screws at the top side of the device are removed before startup of the device.

Switching on/off

Switching on/off with the power key

- ✎ For switch-on, press the key ③
- ✎ For switch-off, hold the key ③. Pressed for more than 2 seconds.

Switch on/off via vehicle ignition

If the car audio system is connected with the vehicle ignition turning of the ignition key also switches off the device. Switching on the ignition will turn on the device.

Volume

Adjusting the volume

You can adjust the volume in steps from 0 (off) to 40 (maximum).

- ✎ Press key ④ and ⑤ to change the volume.
- ✎ Scroll down at the left side of screen will pop out the volume menu, volume can be adjusted on menu directly.

Muting the car audio system (Mute)

- ✎ Briefly press the key ③ to mute the device or to return the previous volume.

Main menu (Home)

In the main menu, please touch the buttons on the touchscreen to call up different sources and operating modes.

- ✎ In the current source, press the [⬆] button . The main menu (home page) is displayed.
- ✎ Press [✨] turn off screen display, the audio output will keep working. Touch anywhere of screen will get display on.



As long as you do not select a new audio source, the last active audio source continues to play.

Note:

The figures used in these instructions are intended to facilitate the explanations and details may vary in your device.

Setting the reception area

This car audio system is designed for operation in different regions with different frequency ranges and station technologies. The factory default of the reception area is "Europe". If you operate the car audio system outside Europe, e.g. in the US or Middle East, you may first have to set a suitable reception area in the menu:

- ✎ On the home page, press the [Settings] button. The Settings menu is displayed.
- ✎ In the bottom area of the Settings menu, press the [Radio] button.
 - The current setting is displayed under "Radio Region".
- ✎ Tap on the [Radio Region] triangle symbol to display the list of available reception areas. The selected reception is set.
- ✎ Press the [⬆] button.
 - The main menu is displayed again.

Radio mode

Start radio mode

- In the main menu, press the **[Radio]** button. The radio page menu is displayed.



Select memory bank

Different memory banks and wave bands are available. Up to 30 stations can be stored in each memory bank.

- Press the **[Radio]** button

Tuning into a station

Tuning into stations manually

- Briefly press the **[⏪]** or **[⏩]** button once or several times to change the frequency in increments.

Starting station seek tuning

- Press the **[⏪]** or **[⏩]** button for approx. 2 seconds to start station seek tuning. The radio tunes into the next receivable station.

Note:

For the reception area Europe: In the FM wave band, only traffic information stations are tuned into if the priority for traffic information feature is switched on.

Storing stations manually

- Select the desired memory bank with the **[FM]** or **[AM]** button.
- Set the desired station.
- Press one of the memory buttons **[1]-[30]** for approx. 2 seconds to store the current station at the button. The station is stored.

Storing stations automatically (Travelstore)

With Travelstore, you can automatically search for and store 30 FM stations offering the strongest reception in the region in the current memory bank. Any previously stored stations in this memory bank are deleted in the process.

- Select a memory bank.
- Press the **[Q]** button
- The tuner starts automatic station seek tuning. After the storing is completed, the radio plays the station at memory location 1 of the previously selected memory bank.

Note:

For Europe reception area: If traffic information is switched-on, only traffic information stations are stored.

Scanning stations

You can use the scan function to play all the receivable stations of the current waveband for a few seconds.

- Press the **[Scan]** button. The seek tuning searches for stations in the current waveband. Each receivable station is played for a few seconds in the process.
- Pressing the **[Scan]** button again selects the currently scanned station and plays it back.

Switching RDS on/off

Many FM stations broadcast an RDS (Radio Data System) signal in addition to their programme in the Europe reception area that allows additional functions, such as the display of the station name.

- On the home page, press the **[Settings]** button. The Settings menu is displayed.
- In the bottom area of the Settings menu, press the **[Radio]** button.
- Tap on the **[RDS]** triangle symbol to turn RDS on/off.
- If the RDS function is switched on, **RDS** is displayed in white
- Tap on **[RDS]** button for RDS menu
- Press the **[↑]** button. The main menu is displayed again.



Switching the REG function (regional programmes) on/off

Some RDS stations divide their programmes into regional programmes with different content at certain times. If the REG function is activated, the car audio system changes only to those alternate frequencies of the set station on which the same regional programme is being broadcast.

- Press the **[REG]** button to switch the REG function on or off.
 - If the REG function is switched on, **REG** is displayed in white.

Switching the AF (alternative frequencies) function on/off

If the AF function is activated, the car audio system automatically tunes into the best receivable frequency for the station that is currently set.

- Press the **[AF]** button to switch the AF function on or off.
 - If the AF function is switched on, **AF** is displayed in white.


Switching the TA (Travel Announcement) function on/off

If the TA function is activated, the car audio system automatically receive travel announcement.

- Press the **[TA]** button to switch the TA function on or off.
 - If the TA function is switched on, **TA** is displayed in white.



Adjusting the seek tuning sensitivity

The seek tuning sensitivity decides whether the automatic station seek tuning finds only strong stations or also weaker stations that may be noisy.

- Press the [] button to adjust the sensitivity of station seek tuning.
 - If **LOC** is displayed, only stations with a strong signal are found during seek tuning.
 - If **DX** is displayed, stations with a strong and weak signal are found during seek tuning.


Selecting the programme type and starting seek tuning

You can select a programme type with the PTY function to search for stations of a particular genre, for example, stations that broadcast rock music, sport events or news.

- Press the **[PTY]** button to display the programme types.
- Scroll through the list with []/[] and tap on the desired programme type to start PTY seek tuning.
 - If a station broadcasts a programme with the selected programme type, this station is played back.

Equalizer

Go to Equalizer settings

- Press the [] button.

USB/microSDHC media playback

Basic information

The car audio system can be used to play MP3 files as well as MP3 or WMA files on USB data carriers and mSDHC cards. In addition, you can view movies and images from USB data carriers and mSDHC cards on the display or a connected monitor.

For safety reasons, the playback of movies and images on the integrated monitor is allowed only while the vehicle is parked and the hand brake is applied. The "BRAKE" cable must be connected with the hand brake connection of the vehicle (see Connection diagram at the end of these instructions). The movie playback on an external monitor in the rear is possible while driving.

Notes:

Cannot guarantee flawless function of copy-protected USB data carriers and mSD cards available on the market.

Note the following information when preparing an MP3/WMA data carrier:

- ☞ Naming of tracks and directories:
 - > Max. 32 characters without the file extension ".mp3" or ".wma" (the use of more characters reduces the number of tracks and folders that the car audio system can recognize)
- ☞ USB format/file system: mass storage device / FAT/FAT16/FAT32
- ☞ mSD card file system: FAT/FAT16/FAT32
- ☞ File extension of audio files
 - > .MP3 for MP3 files
 - > .WMA for WMA files
- ☞ WMA files only without Digital Rights management (DRM) & created with Windows Media® Player version 8 or later
- ☞ MP3 ID3 tags: Version 1 and 2
- ☞ Bit rate for creating audio files:
 - > MP3: 32 to 320 kbps
 - > WMA: 32 to 192 kbps
- ☞ Maximum number of files and directories
 - > USB medium: Up to 10,000 entries
 - > mSD cards: Up to 10,000 files.

USB data carrier

Device features a USB port at the front of panel

Connecting a USB data carrier

- ☞ Insert the USB data carrier in the USB socket.
- ☞ The device automatically switches to USB mode. The data is read, and playback starts with the first media file recognized by the device.

Removing the USB data carrier

- ☞ Turn off the car audio system.
- ☞ Disconnect the USB data carrier

microSDHC cards

This device features 1 microSD card slots located at the front of the device .

Inserting the microSDHC card

- ☞ Insert the microSDHC card with its labelled side to the right (flattened corner to the top) and its contacts metal side first into the card slot ⑥ until it clicks into place.

The device automatically switches to microSDHC mode. Once the data is read, playback starts with the first media file recognized by the device.

Removing the microSDHC card



- ☞ Push on the microSDHC card until it disengages.
- ☞ Pull the microSDHC card out of the card slot ⑥ .

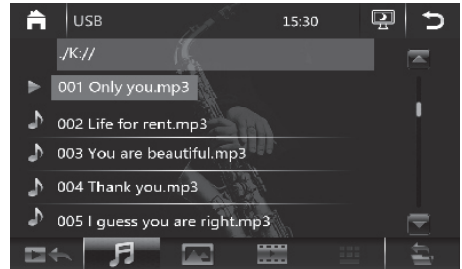
Audio playback from USB or mSDHC






The principles of audio playback (MP3/WMA) from data carriers are identical for all sources.

- ☞ Select the desired source via the main menu. The device changes to the desired source and the playback starts.

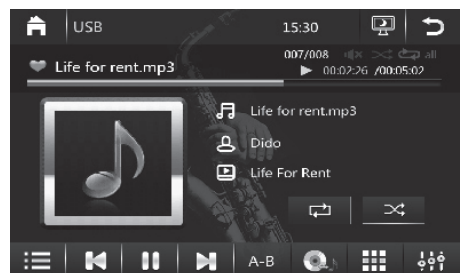
If the playback does not start with the audio playback,


- ☞ press the [] button to previous folder list and change to the other folder/file list.
- ☞ Press the [] button to display all folders in the data carrier.



- [] Scroll up through the list page by page.
- [] Scroll down through the list page by page.
- [] Turn back previous folder.
- [] Briefly tap open folder.
- [] Open selected file.

After choosing a title, the playback menu is displayed.



- [] Display the folder/file list.

- [⏮] Short press: Play previous file.
Long press: Fast search.
- [⏪] Interrupt playback and continue playback.
- [▶] Short press: Play next file.
Long press: Fast search.
- [⏻] Start and end REPEAT function.
The REPEAT mode changes each time the [⏻] button is pressed
- [✕] Start MIX random track play & end it again.
If the MIX function is switched on, the symbol is displayed in white.
The MIX mode depends on the selected REPEAT function.
- [≡] Display equalizer.
- [A-B] Repeat from A to B.
- [📁] Music folders browser.
- [📄] Input the chapter and title for play.

- [⏻] Switch repeat function for movie or folder on/off.
- [A-B] Repeat play from A to B.
- [Audio] Audio channel select (only work on multi channels video files).
- [SUB-T] Subtitle select (only work on multi subtitles video files).

Video playback from USB or mSDHC

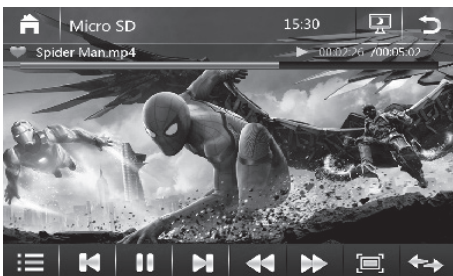
- Select the desired source from the main menu. The device changes to the desired source and the playback starts.
- If the playback does not start with the video playback,
- press the [📁] button to previous folder list and change to the folder/file list.
 - Press the [📄] button to display all the folders of the data carrier.

Note:

Folders and videos are selected and started as described under audio playback.

If you selected a movie, playback starts. During movie playback, the playback menu is hidden.

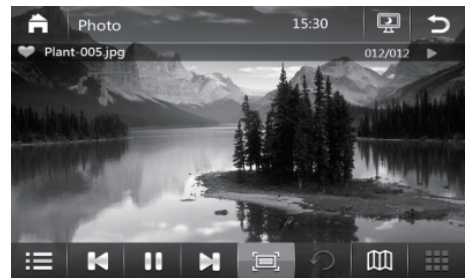
- Briefly touch the touchscreen once to display the playback menu again.
The playback menu is shown.



- [📄] Display the folder/file list.
- [⏮] Select previous movie.
- [⏪] Interrupt playback and continue playback.
- [▶] Select next movie.
- [⏪] 2/4/6/8/16 times speed play back.
- [▶▶] 2/4/6/8/16 times speed play.
- [🔍] Zoom in/out.
- [↔] Next page.
- [≡] Display equalizer.

Image playback from USB or mSDHC

- Select the desired source via the main menu.
 - The device changes to the desired source and the playback starts.
- If playback does not start with the image playback,
- press the [📁] button to previous folder list and change to the folder/file list.
 - Press the [📄] button to display all the folders of the data carrier.



- [🔄] Rotate image.
- [🔍] Zoom in/out.
- [🖼] Photo play mode.

Note:

Folders and images are selected and start as described under audio playback.

Bluetooth mode

The Bluetooth® function allows registering cell phones & BT equipped media playback devices with the car audio system.

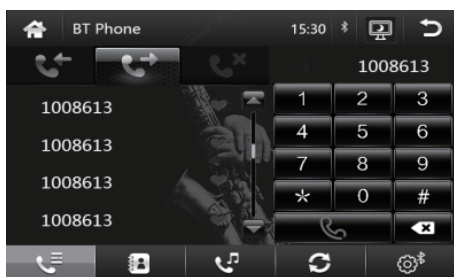
When you register a cell phone with the car audio system, you can make phone calls with the built-in hands free function. You can access the list of dialled numbers and the phone book of the registered cell phone after selecting "Sync" option.

If the connected Bluetooth® device supports the functions like A2DP and AVRCP, you can play music via the car audio system and control playback. During a call, music playback is interrupted and resumes again after the call.

If a cell phone is registered via Bluetooth® and a call is received during playback, the source playback is interrupted and the call menu is displayed.

Starting Bluetooth mode

- Select In the main menu, press [Phone].
- The Bluetooth® menu is displayed. It contains the Phonelog list



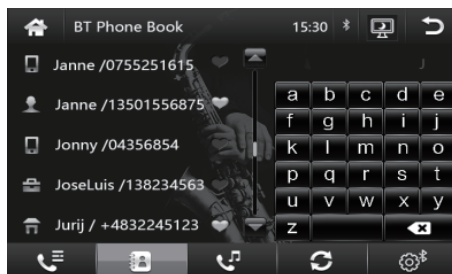
- [▲] Scroll up through the list page by page.
- [▼] Scroll down through the list page by page.
- [📞] Missed call list.
- [📞] Dialed out number list.
- [📞] Income call list.
- [📞] Display phonebook, device will download phonebook every time get connection.
- [⚙️] Display Bluetooth® settings menu

Bluetooth mode

Briefly tap contactor bar of phonelog / phonebook for dial out a phone call

Phonebook

- Select phonebook menu, Press [📞]. The following menu appears.
- Input the letter for search contact .



Note:

Phone book sync – To be able to access the phoneLog / phonebook of a connected mobile phone / device, you must allow visit phonebook on your mobile phone. Car audio support numbers up to 1024.

PhoneLog / Phonebook download - Car audio will download phonelog and phonebook at every time get connected. It will not allow operate during download. Briefly tap [X] for close download, the phonebook will be download again when go into Phonebook and PhoneLog menu.

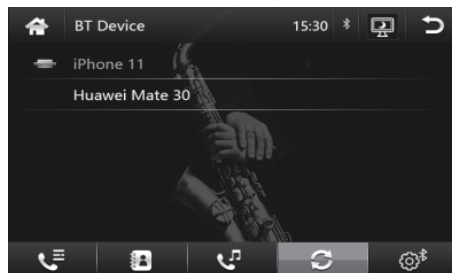
Connection status - If a mobile phone / device is connected with the car audio system, the Bluetooth® icon is displayed at the top right corner of the display in all audio/video sources.

Registering Bluetooth devices

If you want to register a device with the car audio system for the first time, proceed as follows:

- Select Ensure that Bluetooth® is activated on the car audio system and on your Bluetooth® device.
- In the options menu of the Bluetooth® mode, enter a pairing code (see Bluetooth® settings).
- Search for new devices/connections on your Bluetooth® device.
- The car audio system appears same as "Device name" in the list of Bluetooth® devices.
- Establish the connection; you may have to enter the pairing code that was previously entered on the car audio system.

The connection is being established and the menu for the registered device is displayed.



- Press the name of the Bluetooth® device with which you want to establish a connection.

Bluetooth mode

When the device is in range, the connection is established & the menu for the device is displayed.

- Press the [X] button if you want to delete the Bluetooth® device from the list.

Telephone mode - Bluetooth

Press the [📞] button the following menu appears.



- Enter a phone number with the keypad and press the [📞] button.
- Or -
- Briefly tap a contact / number via the caller lists or phone book in the pop-up window.
Connection is being established.
If there's an incoming call, the call menu is displayed.

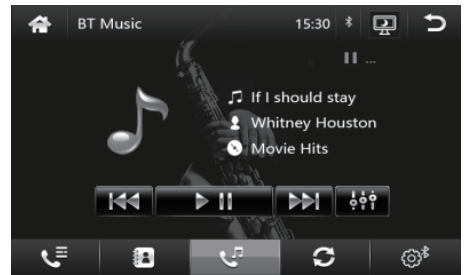


- [📞] Reject a call.
- [📞] Microphone mute.
- [📞] Exchange between mobile phone and car audio during phone call.

Audio playback - Bluetooth

If an audio streaming device is connected with the car audio system via Bluetooth®, you can play back music via the car audio system & control playback.

- Press the [🎵] button to change to audio playback.

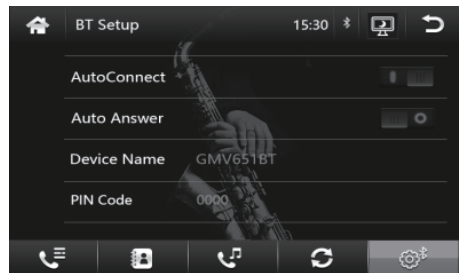


- [⏮] Previous track.
- [⏸] Interrupt playback and resume playback.
- [⏭] Next track.
- [🎛] Go to equalizer.

Bluetooth settings

In the BT Setup menu for Bluetooth®, you can make the basic settings for the Bluetooth® mode.

- Press the [⚙] button.
The BT Setup menu is displayed.



Auto connect – If "Auto Connect" is activated, the device automatically connects with known Bluetooth® devices as soon as they are in range.

Auto answer – If "Auto Answer" is activated, incoming phone calls are automatically answered.

Pin code – Many Bluetooth® devices request a pairing code before establishing a connection.

Note:

Car audio will search and connect the Bluetooth® device in range when auto connect switched on, and then will stop to search if have not device in range after 10 minutes. You can connect device again by press device in the list.

External audio / video sources

AV-IN input

This device features an external AV input for audio and video playback. The AV-IN input is located at the front of the radio.

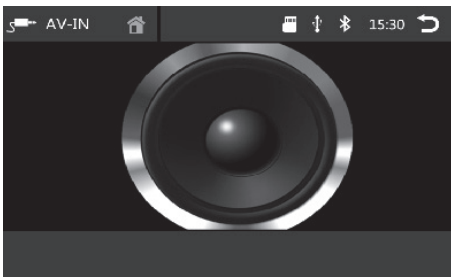


Danger!

Increased risk of injury from connector.

In case of an accident, the protruding connector in the AV-IN socket may cause injuries. The use of straight plugs or adapters leads to an increased risk of injury.

- Select **[AV IN]** on HOME screen .
The display shows the audio or video playback of this AV source.



Rear Camera Input

This device features a video input at the rear of the device for connecting a rear view camera that is available as an option (sold separately). If a rear view camera is connected, the image is displayed on the screen, when the reverse gear is engaged.

- Connect REVERSE wire to reverse lamp power supply for reverse gear engaged detect.

External monitor

This device features an output for connecting an external monitor for passengers in the rear (see Connection diagram at the end of these instructions).

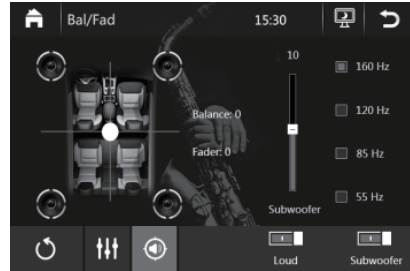
- Select the desired source via the main menu and start movie playback, e.g. from a USB.
The movie is displayed on the rear monitor

Sound settings

Audio distribution (fader/balance)

You can adjust the sound distribution in the vehicle for all sources.

- In the main menu or on the control bar of the current audio source, press the [●] button.
- The equalizer menu is displayed.
- Press the [●] button.
- The menu for fader and balance is displayed.



- Adjust fader & balance with [●].
- Reset fader and balance to 0 with [↺].
- Turn on the **[Loud]** button to increase bass at low volume.
- Turn on the **[Subwoofer]** button to active subwoofer output. The subwoofer output level can be adjusted from 0 to 10.
- Turn on one of the **[55Hz]**, **[85Hz]**, **[120Hz]**, **[160Hz]** to setting cut-off frequency.. Only frequencies lower than those in the selected range are outputted from the subwoofer.

Equalizer

You can adjust the equalizer for all sources.

- In the main menu or on the control bar of the current audio source, press the [≡] button.
The equalizer menu is displayed.



- Select a preset equalizer via the buttons **[Classic]**, **[Rock]**, **[Pop]**, **[Jazz]**, **[Electronic]**.
- Or -
- Press the **[User]** button to adjust the level of the available frequency bands according to your preferences.

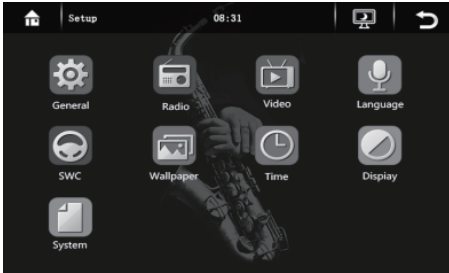
Note:

With the [↺] button, you can reset the customised setting again.

General settings

In the settings menu, you can adjust the general settings for the different functions of the device to suit your requirements.

- In the main menu, press the **[Settings]** button.
The settings menu is displayed, the **General** sub menu is activated.



- Call up the sub menus with the menu bar.

General

The following settings are possible:

Beep – Switch confirmation beep on/off.

Reversing Mute - Switch voice output on/off when reversing.

Power On Volume - Select the volume value when turn on car audio.

Radio

The following settings are possible:

Radio region – Select the reception region for radio reception.

RDS – Turn on/off RDS function.

Video

The following settings are possible:

Aspect ratio - Setup display aspect ratio.

Parking Video display - Switch parking detect on/off.

Camera mirror - Reversal rear camera image.

SWC – The buttons of a connected steering wheel control can be configured here.

Wallpaper – Select flavor wallpaper for each menu.

Time – Set up date and time.

The following settings are possible:

Date – Set the date.

Clock mode – Selection between 12 and 24-h mode.

Time – Set the time.

Display

The following settings are possible:

Brightness - Adjust screen display brightness.

Contrast - Adjust screen display contrast.

Color - Adjust screen display color.

Press **[Reset]** to factory default settings.

System – Displays current software version.

The following settings are possible:

Default – Resets all personalised settings.

Note:

[Super menu] button only for factory set up before send out. User can't change.

PhoneLINK*

New PhoneLINK feature allows you to connect your Android and iOS Smartphone to 2 Din Touchscreen radio using your mobile phone data cable.

Enjoy all functions & applications on your Android phone via the in-dash radio.

- View your smart phone images on the radio display.
- Play music from your phone.
- Access your phone contacts & apps.
- Check your Email / Messages.

Note:

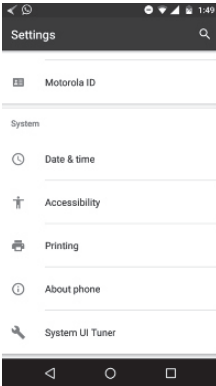
iPhone X and later edition iphone can't support PhoneLINK function.

*Check compatibility with your Android phone before purchase.

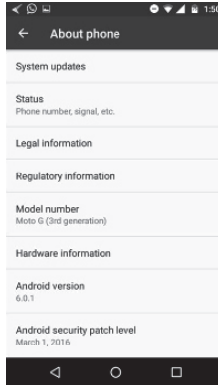
Please turn to the next page for instructions to turn on debugging on your phone.

Please follow the below instructions to turn on debugging on your phone.
Some steps may be different on different phones please also refer to your mobile phone instruction manual.

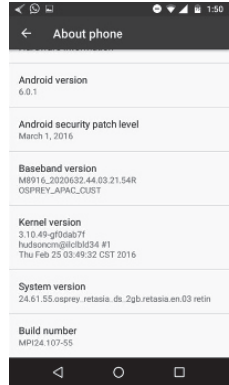
1. Go to Settings



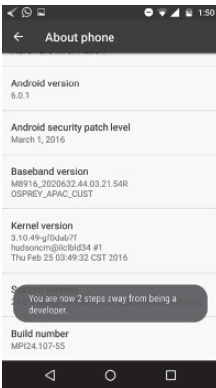
2. About Phone



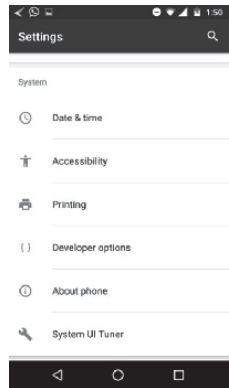
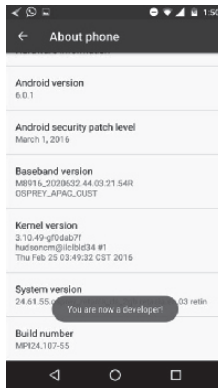
3. Build Number



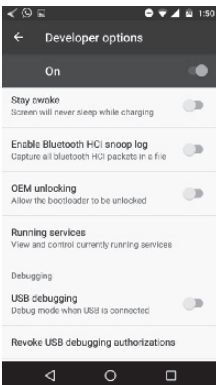
4. Tap on Build no for 6 to 8 times



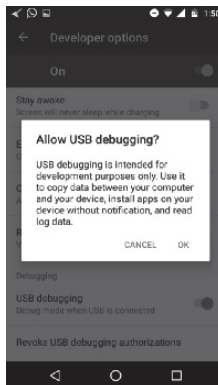
5 & 6. You will now see Developer mode activated under Developer Option



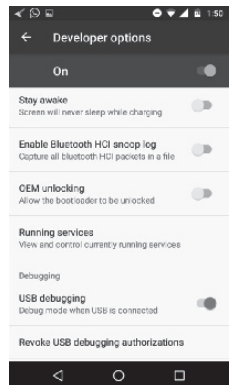
7. Turn on Developer Option



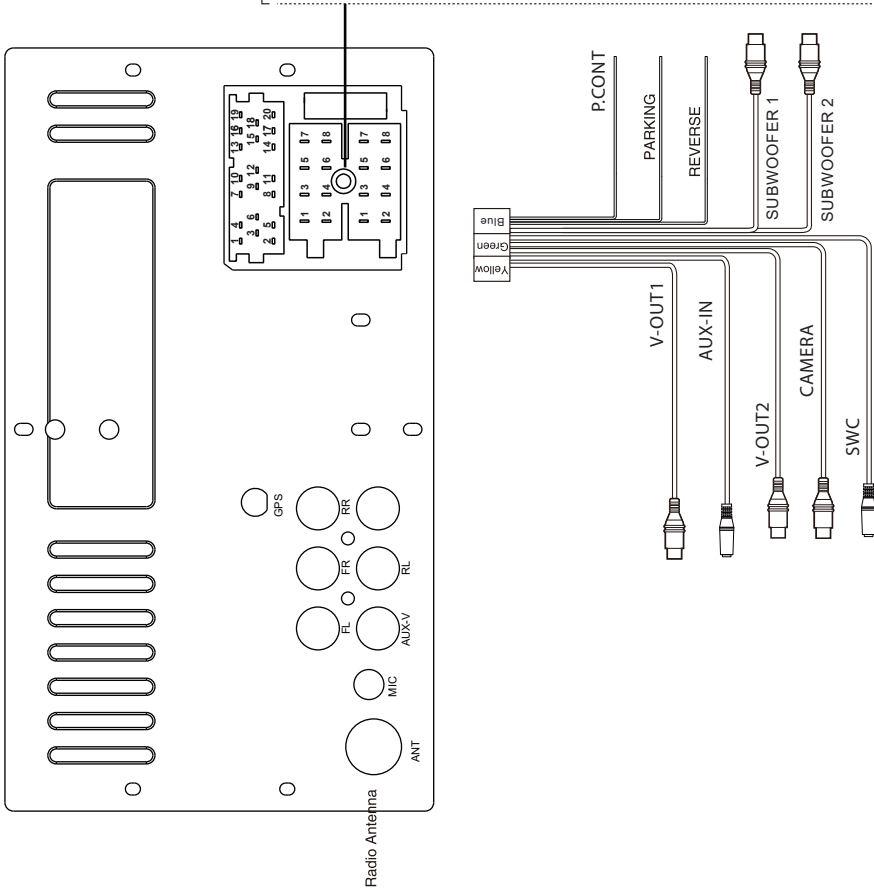
8. Switch on USB Debugging, Say OK to the message



9. USB debugging is now ON



After the above connect the USB cable to radio & mobile



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FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the ser's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☞ Reorient or relocate the receiving antenna.
- ☞ Increase the separation between the equipment and receiver.
- ☞ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☞ Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 centimeters between the radiator and your body.

USB/SD supported media files

Video files

File format	Supported video code	Supported video profile	Supported audio code	Video bitrate limit	Supported file extension
AVI	MPEG-2 MPEG-4 Visual	MPEG-2: Simple, Main, High MPEG-4: Advanced		Bitrate:28Mbps Resolution:1080 Frame rate:30fps	.avi .xvid
MKV	MPEG-4 Visual AVC VC1 WMV3 RX40 VFW RV30	MPEG-4 Visual: Simple, Advanced simple AVC: High, Main, Baseline	MPx, pcm, AAC, AC3, OGG, FLAC	Bitrate:30Mbps Resolution:1080 Frame rate:30fps	.mkv
QT	S263 MP4V MJPG JPEG MJPEG AVCC H264 AVC1 X264	AVC: Baseline, Extended, Main, High JPEG: QuickTime MPEG-4 Visual: Main, Simple, Advanced simple, QuickTime advanced simple 3GP4: AVC, H.263, MPEG-4 Visual 3GP5: H.263, MPEG-4 Visual	MP3, MP4A, AAC, PCM, AMR	Bitrate:10Mbps Resolution:1080 Frame rate:30fps	.mp4 .mov .3gp
MPG	MPEG Video-1 MPEG Video-2 AVC	MPEG Video: Main, High		Bitrate:30Mbps Resolution:1080 Frame rate:30fps	.mpeg .mpe .dat .vob
ASF(WMV)	XVID MP4S M4S2 DIV3 DIV4 DX50 WMV3 WVC1 WMVA	VC-1: Simple, Main, Advanced	WMA	Bitrate:10Mbps Resolution:1080 Frame rate:30fps	.wmv
FLV	AVC H263 H264	AVC: Baseline, Main, High	MP3, AAC	Bitrate:4.5Mbps Resolution:1080 Frame rate:30fps	.flv
RMVB	RV30 RV40	RV30: RealVideo 8 RV40: RealVideo 9, 10	Cook, Raac, Racc	Bitrate:10Mbps Resolution:1080 Frame rate:30fps	.rmvb .rm .rmv
TS	MPEG1 MPEG2 H264 AVC	AVC: Main, High MPEG Video: Main	Private1_AC3, AC3, MPEG1, MPEG2, DRA	Bitrate:20Mbps Resolution:1080 Frame rate:30fps	.ts .m2ts .trp

Audio files

File format	Supported audio code	Audio bitrate limit	Supported file extension
MP3	MP1/MP2/MP3	8 to 384kbps	.mp2 .mp3
WMA	WMA7/8/9	<384kbps	.wma
AAC	MPEG-2/4 LC-AAC	8 to 192kbps	
WAVE	PCM, IMA_ADPCM, MP1/3, MULAW	NA	.wave
FLAC		NA	.flac
APE	Version 3950-4060, Compress Level: fast/normal/high BitsPerSample 8/16/24 bits	NA	.ape
OGG	Vorbis	NA	.ogg

Image files

File format	Supported file	Limitation	Supported file extension
JPEG	Baseline JPEG Progressive JPEG	No support YCbCr/YIQ, CMYK	.jpg .jpeg
BMP	Info header, Code header, Non compression	No support Compression	.bmp
GIF	8.7a, 8.9a	No support Interface	.gif
TIFF	Bilevel, Grayscale, RGB(8 bit), Palette, CMYK, Uncompressed, Packbits, LZW	No support YCbCr, CIE No support CCITT_1D, CCITT_GROUP3_2D, CCITT_GROUP4_FAX, JPEG	.tiff
PNG	Grayscale 1/2/4/8/16bit, RGB 8/16bit, RGB Index 1/2/4/8 bit, Critical chunks, Compression, Filtering, Interlacing	No support Ancillary chunks	.png



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