PROTON

INSPIRING CONNECTIONS

SAGA

INFOTAINMENT SYSTEM
MANUAL

TYPE I PREMIUM S PREMIUM

Infotainment System User Manual

Precautions

1. Never disassemble or adjust the unit without any professional guidance. For details, please consult any professional car shop / dealer for inquiry.

2. If the front panel or LCD screen is dirty, please use a clean silicone cloth and neutral detergent to wipe off the spot. Using a rough cloth and non-neutral detergent such as alcohol for cleaning may create scratches or discoloration to the screen.

3. If any abnormal behavior of the unit is found, please refer to trouble shooting guide of this manual.

4. If the car was parked in hot or cold weather for a long time, please wait until the temperature in the car becomes normal before operating the unit.

5. Using the air conditioner with very low temperature may result in condensation buildup inside the unit, DO NOT use the unit in this situation. If the unit still does not work after a few hours, please contact the service center.

6. Do not impact the LCD screen which could cause damage.

7. To prevent damage to the screen, avoid touching the screen with sharp objects.

8. To provide a clear demonstration and an alternative for easy understanding to the operation of this unit, graphic illustrations are used. However, some illustrations maybe different from the actual images displayed on the screen.

9. Operate the unit correctly according to this manual to prevent unnecessary problem. The guarantee is not valid if the problem is caused by inappropriate operation.

Table Of Contents

1. Control Panel

No.	Icon	Function Definition
1	⏻ Power/Mute	▪ In operation mode: Short press for less than 5 seconds：Mute the audio source to OFF status Long press for more than 10 seconds：Restart the machine ▪ In standby mode: Short press for less than 3 seconds：Head unit wake up
2	🔊 Vol+	Increase the volume level
3	🔉 Vol-	Decrease the volume level
4	⌂ Home	Go to main menu
5	↩ Back	Back to previous menu

2. Steering Wheel Control Buttons

No.	Icon	Function Definition
1	VOL +	Short press for less than 3 seconds: Volume increases by 1 level.
		Long press for more than 3 seconds: Volume increases by 1 level immediately, and then increases continuously by 1 level each second.
2	VOL −	Short press for less than 3 seconds: Volume decreases by 1 level.
		Long press for more than 3 seconds: Volume decreases by 1 level immediately, and then decreases continuously by 1 level each second.
3		Bluetooth call mode: ▪ Short press for less than 3 seconds: Answer incoming calls Hang up the phone during a call. ▪ Long press for more than 3 seconds: Reject incoming call/call is in progress.
		Non-Bluetooth call mode: ▪ Short press for less than 3 seconds: When media is NOT muted, it will be muted When the media IS muted, media will be unmuted. ▪ Long press for more than 3 seconds: If the phone is connected to Bluetooth, the page will be directed to the dial page, If the phone is not connected to Bluetooth, the page will be directed to the Bluetooth main connecting page.

4		- Radio: Short press for less than 3 seconds: Jump up to previous preset station, Long press for more than 3 seconds: Search down automatically for a valid station. - Picture: Short press for less than 3 seconds: Go to the previous picture in the playlist. - USB music: Short press for less than 3 seconds: Go to the previous song in the playlist. - USB video: Short press for less than 3 seconds: Go to the previous video in the playlist Long press for more than 3 seconds: Rewind the video at 2 times speed
5		- Radio: Short press for less than 3 seconds: Jump up to next preset station, Long press for more than 3 seconds: Search up automatically for a valid station. - Picture: Short press for less than 3 seconds: Go to the next picture in the playlist. - USB music: Short press for less than 3 seconds: Go to the next song in the playlist. - USB video: Short press for less than 3 seconds: Go to the next video in the playlist Long press for more than 3 seconds: Fast forward the video at 2 times speed
6	mode	Mode switch button. - When USB is detected: Mode change sequence: Radio->USB Music->Video->Bluetooth Music - When USB is not detected/ Bluetooth is not connected: Mode will not change. Mode will remain at Radio.

3. Basic Operations

Standby/Awake

When the head unit is turned on, short press the 【Power】 button to enter standby mode.

Short press on the 【Power】 button again to wake up the unit

Mute

The sound of the head unit can be muted by short pressing the 【Phone】 icon on the steering wheel.

Adjust Volume

Users can adjust the volume in steps from 0 (Off) – 40 (Maximum).

Press the 【Vol +】 or 【Vol -】 button to change the volume.
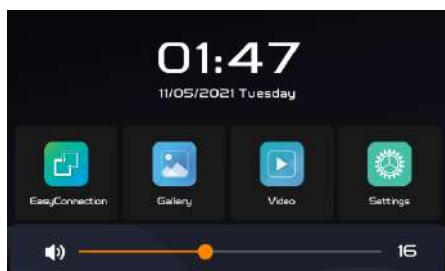
Main Menu
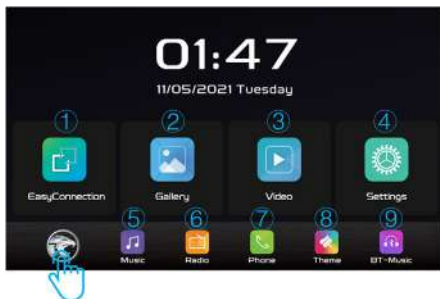
Touch corresponding icon to enter corresponding mode:

(1) EasyConnection
(2) Gallery
(3) Video
(4) Settings
(5) Music
(6) Radio
(7) Phone
(8) Theme
(9) Bluetooth Music

Clicking the "Proton Logo" on the bottom -left side of the homepage will direct you to the widget page.

Widget Page

(1) Previous song: Click to play previous track from the USB music playlist (If the media only has 1 track, this option will be invalid)

(2) Play/Pause: Click to play/pause current track.

(3) Next song: Click to play next track from the USB music playlist (If the media only has 1 track, this option will be invalid)

(4) Current song title.

(5) Current radio frequency. If the radio station transmits RDS data, the Program Service (PS) name can be displayed replacing "MHz" text.

(6) Display Bluetooth phone connection status.

(7) Display EasyConnection status.

User can return to homepage by touching on the "Home" icon.

4. Radio Operations

Touch 【Radio】 icon on the main menu to enter Radio mode.

(1) 【FM/AM】 Band display,
(2) 【Current radio】 station name
(3) 【 Radio frequency 】 console bar
(4) 【FM Band Switch】 button.
(5) 【AM Band Switch】 button
(6) 【Previous Frequency】 button
(7) 【Play/Pause】 button
(8) 【Next Frequency】 button
(9) 【Scan】 button
(10) 【Search】 button
(11) Favorite Station List
(12) Current Radio Frequency
(13) 【TA】 button
(14) 【AF】 button
(15) 【 Program Type Search 】 button
(16) 【Favorite Station】 button
(17) 【Favorite List】 button
(18) 【 Stereo 】 Indicator. (Will be shown upon receiving good radio reception signal)

Switching Radio Band

Touch 【FM Band Switch】 button to switch to FM radio frequency band. The "FM" fonts will be highlighted.

Touch 【AM Band Switch】 button to switch to AM radio frequency band. The "AM" fonts will be highlighted.

Manual Tuning

During manual tuning, the frequency will be changed in steps of 0.05 MHz

Touch the 【Previous Frequency】 or 【Next Frequency】 button on the screen to tune to a higher/lower station.

Auto Tuning

Hold the 【Previous Frequency】 or 【Next Frequency】 for more than 2 seconds to seek a lower/higher frequency automatically.

To stop the auto tuning, short press any button.

Notes:
When a station is detected, the searching will stop, and the station will be played.

Auto Store Radio Stations

Stations with strong signal will be detected and stored in the memory.

To start automatic search, touch the 【Search】 button.

Note:
After radio stations are auto stored in "Favorite Presets" list below, the previous radio stations list will be overwritten.

Manual Store Radio Stations

Users can manually store radio stations by touching 【Favorite Station】 button next to the frequency display (refer to figure below).

The radio stations will be stored

Deleting Favorite Stations

Users can delete radio stations from Favorite List either by deleting all or individual stations.

Touch 【Favorite List】 button to access the Favorite List interface.

To delete individual station from the list, users can touch the Trash icon beside the individual radio station frequency as shown below.

Users can also delete all list by touching the "Delete All" button as shown below.

5. Music Operations

Using USB device

Connect your USB device to the USB connector.

When a USB device is connected, the unit will automatically read files.

Music Playback

Select 【Music】 on the main menu, and the device will start playing music stored in USB.
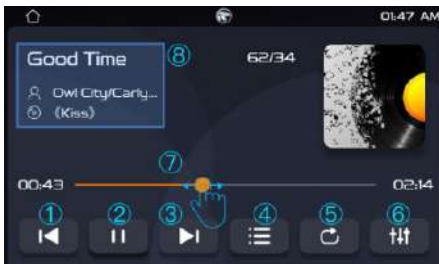
Click music application on the main interface.

(1) 【 Previous Song 】 Button
(2) 【 Pause/Play 】Button
(3) 【Next Song】 Button
(4) 【List】 Button
(5) 【Loop mode】 Button
(6) 【Sound Effect】 Button
(7) Progress bar: Display the total time and progress of the current playing track. Click and slide the circular cursor to left and right to adjust the playing progress
(8) Display Area: display ID3

information of the current track

Play/Pause

During Playback, touch 【 Pause 】 button to pause and the sound will mute. Click 【 Play 】 button to continue to play.

Previous/Next Track
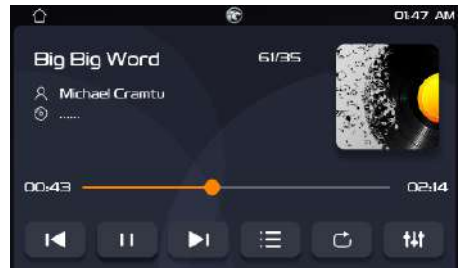
Touch 【 Previous Song 】 or 【Next Song】 button to go to previous or next track.

List Track
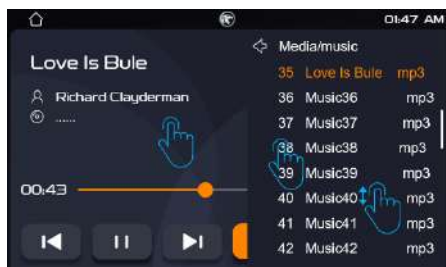
Touch button 【List】 to open the playlist. Select the track from the playlist to play the song.

Touch to the left blank area, back to the music playing interface.

Loop Mode

There are 4 available playback loop mode as below. You can change the loop mode by touching the following 【Loop mode】 buttons:

Playback Mode	Icon
Repeat	⟳
Directory Repeat	⟲
Shuffle	⤨
Sequential	→

Sound Effect

Touch 【Sound Effect】 button to open the sound equalizer setting interface. You can select either one of the sound effects setting from the interface.

Please refer to Section 9 for detail on adjusting the equalizer settings.

6. Video Operations

Video Playback

Select 【Video】 on the main menu to enter video mode.
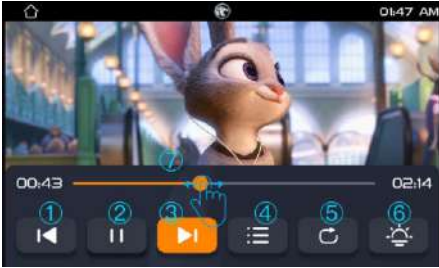
Click the video application on the main interface.

(1) 【 Previous Song 】 button
(2) 【 Pause/Play 】 button
(3) 【Next Song】 button
(4) 【List】 button
(5) 【Loop mode】 button
(6) 【Brightness Adjustment】 button
(7) Progress bar: Display the total time and progress of the current playing track. Click and slide the circular cursor to left and right to adjust the playback progress.

Play/Pause
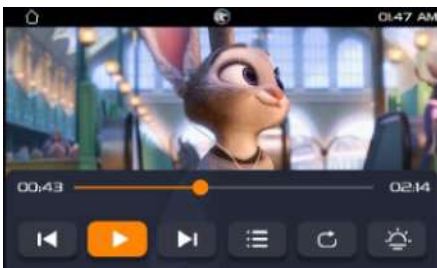
Touch 【 Pause/Play 】 button to play/pause the video. During Playback, touch 【Pause】 button to pause and the video will be stop. Touch 【Play】 button to continue play the video.

Previous/Next Video
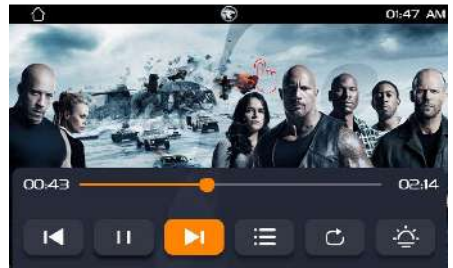
Click 【Previous Song】 or 【Next Song】 to go to previous or next video.

Touch on the blank area above to play the video in full screen

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Video List

Touch 【List】 button to access to list of available media files.
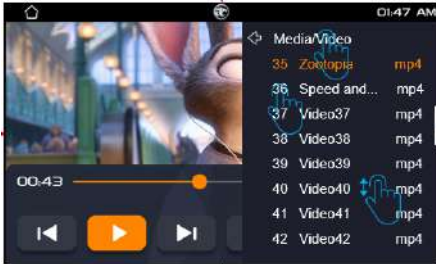
Click on the listed items to play the desired media file.

Playback Loop Mode

There are 3 available playback loop mode as below. You can change the loop mode by touching the following buttons:

Playback Mode	Icon
Repeat	↻
Shuffle	⤭
Sequential	⇉

Brightness Adjustment

Touch 【Brightness Adjustment】 button to adjust the brightness of the display.

Brightness can be adjusted by dragging the brightness bar to the left or right.

Dragging the bar to the left will reduce the brightness whereas dragging the bar to the right will increase the brightness.
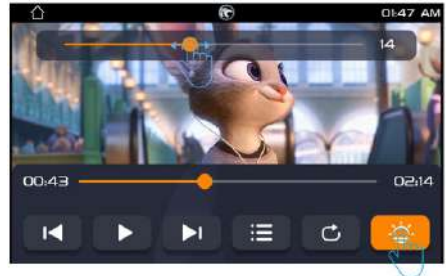
Note: Watching video while driving is prohibited for safety reasons. Under driving conditions, user will not be able to watch the video and a warning message will be popped up if users try to watch videos while driving.

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7. Gallery Operations

Gallery Operations

Select 【Gallery】 on the main menu to enter Gallery.
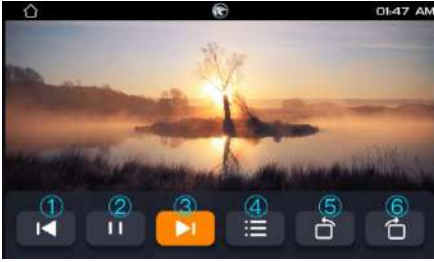
Touch gallery application on the main interface.
(1) 【Previous】 button
(2) 【Pause/Play 】button
(3) 【Next】 button
(4) 【List】 button
(5) 【Rotate Anti Clockwise 】 button
(6) 【Rotate Clockwise 】 button

Play/Pause
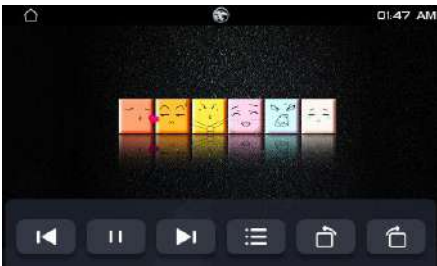
During Playback, click 【Pause 】 button to pause and the picture will be stop. Click 【Play 】 button to play.

Previous/Next Pictures

Touch on 【Previous】 or 【Next】 button to view next or previous pictures.

Full Screen Playback
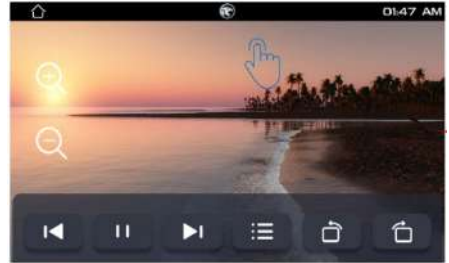
Touch on the blank area above to play in full screen playback.
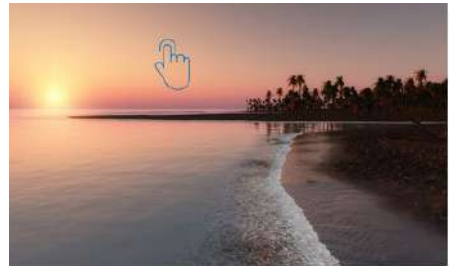
Touch on the full screen to return to original interface.

List pictures
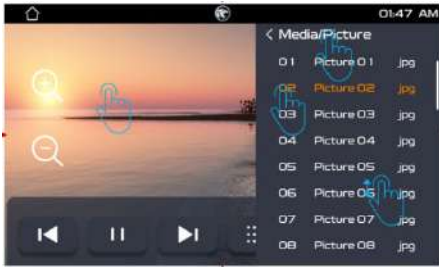
Touch on 【List】 button to open the playlist. Select from the list to open the desired picture file. Touch to the left blank area, to hide the list.

Rotating the Picture

To rotate the picture counter clockwise, touch the 【Rotate Anti Clockwise 】 button. The picture will be rotated 90 degrees in counterclockwise direction.
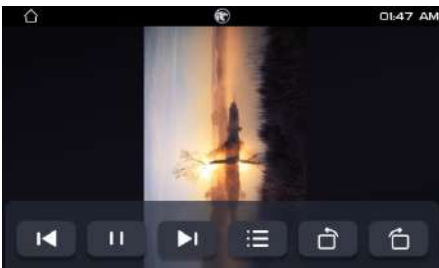
To rotate the picture clockwise, touch the 【 Rotate Clockwise 】 button. The picture will be rotated 90 degrees in clockwise direction

8. Bluetooth Operations

Bluetooth Operations

The Bluetooth allows you to use the car's built-in audio system for hands-free wireless mobile phone or music communication. Some phones have Bluetooth audio characteristics, and some portable audio players support Bluetooth characteristics. The system can playback audio data stored in Bluetooth audio devices. A car stereo system with Bluetooth will be able to access the phone book, view call records, make calls, and listen to music.

Notes: This system will not operate or may operate improperly with some Bluetooth audio players.

The unit cannot guarantee the compatibility of all mobile phones together with the unit.

Audio playback will be set to the same volume level as set during the telephone calls. This can cause problems if an extreme volume level is set during the telephone call.

Connect to Bluetooth Device

Touch 【Phone】 icon on the main menu to enter Bluetooth Phone mode.

If the Bluetooth function of the unit is not turned on, a reminder will appear as shown in the picture above.

Touch "OK" button to go to Bluetooth settings page. Please ensure to turn on Bluetooth function of your mobile phone.

In the Bluetooth settings page, there will be 4 options available to users (Refer to picture above):
(1) 【Connect】 button
(2) 【Disconnect】 button
(3) 【Search】 button
(4) 【Delete】 button

To connect to Bluetooth phone, you can either select the head unit device name from the pairing list in your mobile phone or you can select your mobile phone device name

from the head unit pairing list (refer below).

Once the mobile device name is selected, touch on 【 Connect 】 button to connect the head unit to mobile phone (refer to figure below).

If there are no available devices listed, please touch 【 Search 】 button to search for nearby available Bluetooth devices.

Upon successful connection, user will see "Connected" sign appear beside the selected devices (refer to figure below).

Making Phone Calls

Touch on the 【 Dial 】 button as shown below to go to the dialing page.
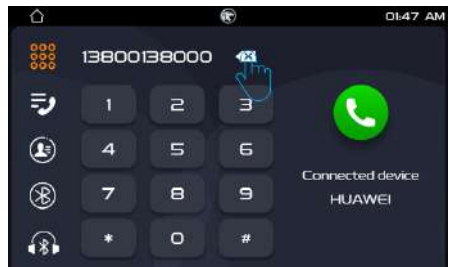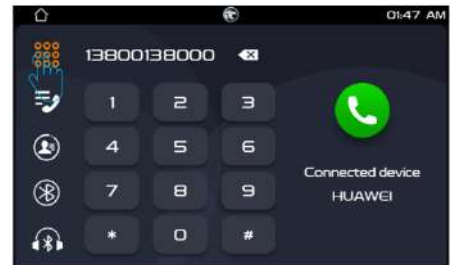
User can dial the number by touching the number on the keypad. The number can be deleted by touching the 【Backspace】 button as shown above.

Touch 【Call】 button as shown above to dial the number.

Upon connected to the call, user will have access to 3 options:

(1) 【Hang up】 Button: Touch to hang up the current call

(2) 【Private Phone】Button: Touch to switch between car speaker or phone speaker.

(3) 【Mute】 Button: Touch to mute/unmute the microphone.

Receiving Phone Calls

Upon receiving a call, user will see the following user interface.

User will have 2 options:
(1) Touch the 【Hang Up】 button to hang up the call.
(2) Touch the 【Pick Up】 button to pick up the call.

Call History

User can access call history by touching the 【Call History】 button below.

User can select the list and touch the 【Dial】 button to call.

Contact List

User can access contact list from the phone by touching 【Contact List】 button as shown below.

If the contact list is empty, user can touch the 【Download】 button to download contact list from the connected Bluetooth device.

Note:
Up to 2000 contacts list from user's mobile phone can be synchronized upon download.

User can also search contacts from the list by touching the 【Search】 button shown below. User can type the contact's name and it will return the search result.

Alternatively, user can also select from the index alphabet at the right side of the page to find contacts based on the first letter.

Bluetooth Music

User can listen to the music from their mobile phone by touching the 【Bluetooth Music】 button (refer picture above).

(1) 【Previous Song】 Button: Touch to play the previous song
(2) 【Play/Pause】 Button
(3) 【Next Song】 Button: Touch to play the next song
(4) ID3 information display

9. Settings

Systems Settings

Touch 【Settings】 button at main page to access settings page below.

Users will have access to 4 settings options:

(1) 【System Settings】
(2) 【Display Settings】
(3) 【Sound Effect Settings】
(4) 【Sound Field Settings】

Touch 【System Settings】 button to enter systems setting interface.

User can adjust the following settings in Systems Settings interface:

(1) Turn the touch key tone On/Off
(2) Changing time format to 12- or 24-hours system.
(3) Change the clock time
(4) Display the hardware and software version
(5) Restore factory settings.

Display Settings

Touch 【Display Settings】 button to enter the settings interface as below:

Users may turn On/Off the automatic brightness adjustment function by touching the ON/OFF button.

Users are also able to adjust the brightness of the display manually by dragging the Brightness Adjustment slider to the left or right. Sliding the button to the right will increase the brightness whereas sliding the button to the left will reduce its brightness.

Sound Effect Setting

By touching the 【Sound Effect Settings】 button, users will be directed to the interface below:

There are 8 sound setting options available for the user to choose including "Custom" option. Users may select any of the available sound setting options shown in the interface and each option will return different sound effect.

By default, "PROTON" sound effect options will be the default sound effect preset into the head unit.

Users may adjust the sound effect by touching up & down arrow for each frequency.

Sound Field Setting

Users can also adjust the location of the sound in the car by touching 【Sound Field Settings】 button. Upon touching, the user will enter the following interface:

Users may adjust the sound field setting by dragging the locator in transverse and longitudinal direction.

To reset the sound field setting, touch 【Restore Defaults】 button.

10. Other Functions

Theme Selection

Users can change the theme of the user interface by touching 【Theme】 icon in homepage.

Users can select one of the 3 options listed under "Theme Selection" (refer picture above) to change the font color of the homepage & widget page.

The options under "Theme Selection" are:
(1) Default Colour: White
(2) Theme Colour 1: Neon Green
(3) Theme Colour 2: Neon Blue.

Once selected, users can see the font color changed when the icon is being clicked/touched.

Users are also able to select 3 options of wallpaper design by selecting the options listed under "Wallpaper Selection".
(1) Default background: Black
(2) Wallpaper 1: Proton Official Wallpaper
(3) Wallpaper 2: Preinstalled wallpaper.

EasyConnection

User can connect to EasyConnection by clicking 【EasyConnection】 icon in home page. Please refer to the instruction in the head unit to connect to the app.

First, download EasyConnection apps to your mobile phone by clicking "Download mobile app" link from your head unit as shown below.

Upon clicking the link, you will be directed to QR code page. Scan the QR code to download the latest EasyConnection mobile app to your mobile phone.

Once the app has been downloaded, connect your phone to the head unit using USB cable. You will receive a pop-up notification in your mobile phone as shown below. Click "OK".
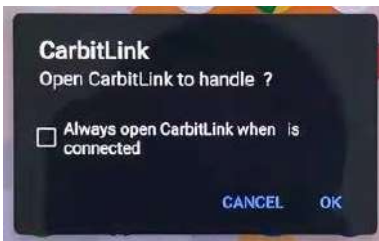
You will be directed to the main page of EasyConnection in your head unit.

If you are not connected to the Bluetooth connection, the head unit will display a pop-up notification asking you to connect to Bluetooth. Follow the instruction as specified in *Section 8 Bluetooth Operations"*.

Upon successful Bluetooth connection, you can access to the main page of EasyConnection as shown below.
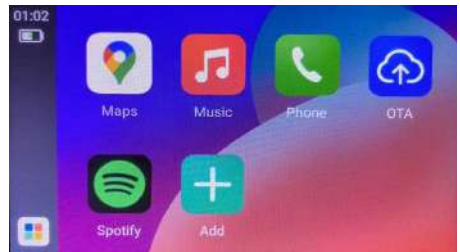
You can click "Add" button on the main page to add the apps that you wish to use as shown below.

Click on the icon at bottom-left side of the page to return to main connection page after adding the required apps.

Upon completion of these steps, you are now ready to use your apps in EasyConnection.

Reverse Camera Display

Reverse camera display will be activated once user shift the gear to "R" position.

When the gear is shifted from "R" to other gear position, the reverse camera display will be turned off.

TYPE II
STANDARD

CAR INFOTAINMENT SYSTEM OPERATION MANUAL

Bluetooth®, USB, Radio, Radio Data System

PROTON
INSPIRING CONNECTIONS

FOREWORD

We thank you for and congratulate you on your choice of new car
This handbook contains essential information about the car radio of your new Proton as well as other important advice to be rigorously followed.
Before starting to use your new car radio, please read the information carefully and keep it for reference.

Traffic safety

As the driver of a motor vehicle, it is your responsibility to pay attention to the traffic situation at all times. Never use your car radio in a way that could distract you. Please keep in mind that you travel a distance of 14m per second of a speed of only 50 km/h.
Should the traffic situation become particularly demanding, we advice you not to use the radio. Always make sure that you are still able to hear any meaning signals coming from outside the vehicle, such as police or fire engine sirens, so that you can react accordingly.

Radio Data System   **USB**   **MP3/WMA**   ❸ **Bluetooth**

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Contents

2. CONTROLS

Main Unit

3. NOMENCLATURE

Note:
• Be sure to read this chapter referring to the front diagrams of chapter "**2. CONTROLS**" on page 4.

Names of the Buttons and their Functions

[SRC / ⏻] button
• Press the button to turn ON power.
• During power on, press the button for more than 1 second to turn OFF power.
• During power on, press the button to switch to different source mode.

[VOL + / VOL −] button
• Adjust the volume by pressing [**VOL +/-**] to increase and decrease the volume.
• Adjust the audio value by pressing [**VOL +/-**] during Audio Mode Function.
• Adjust setting by pressing [**VOL +/-**] during ADJ Mode Function.

[▲ FLD] button
• Select the next Folder (USB only).

[▼ FLD] button
• Select the previous Folder (USB only).

[♪ / SOUND · ◠] button
• Short press the button to select audio adjustment.
• Press and hold the button for 1 second or longer to toggle LOUDNESS ON/OFF
• Reject/end call during incoming call/ call conversation.
• End Voicedial

[◀◀ / SEEK DN] button
• Press the button to seek down a station while in the Tuner mode, select previous track when listening to a USB/BT Audio.
• Press and hold the button for 1 second or longer to auto seek down in Tuner mode and enter the fast-backward in USB/BT Audio mode.

[▶▶ / SEEK UP] button
• Press the button to seek up a station while in the Tuner mode, select next track when listening to a USB/BT Audio.
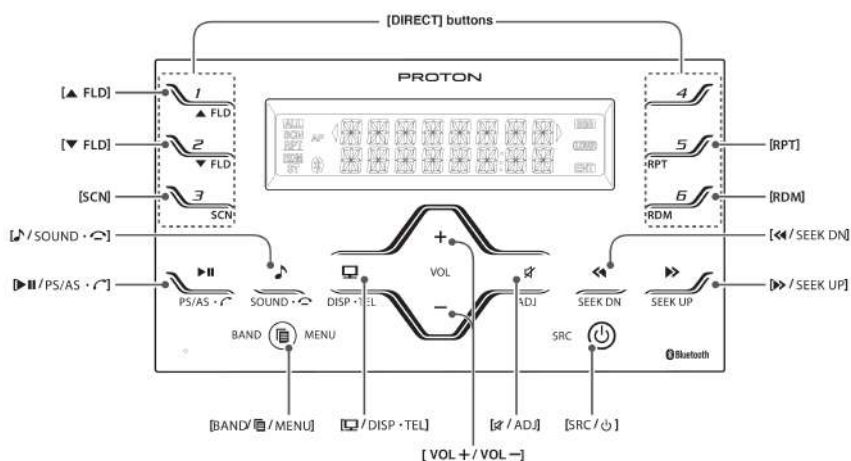• Press and hold the button for 1 second or longer to auto seek up in Tuner mode and enter the fast-forward in USB/BT Audio mode.

[▭ / DISP · TEL] button
• Press the button to switch the display in TUNER, USB and B/TOOTH AUDIO mode.
• Press and hold the button for 1 second or longer to enter Telephone mode.
• Press the button to transfer call between phone and head unit during conversation.

[▶/II / PS/AS · ◠] button
• Play or pause a track while in the USB/B/TOOTH Audio mode.
• Press the button to perform second level adjustment or selection.

• Press the button to perform preset scan while in the Tuner mode.
• Press and hold the button for 1 second or longer to perform auto store in Tuner mode.
• Short press to accept incoming call.

[BAND/ 🗐 / MENU] button
• Press the button to switch the band in the Tuner mode.
• Press and hold button for 1 second or longer to toggle DX/LO seek in the Tuner mode.
• Play the first track while in the USB mode.
• Cancel pairing mode.
• Cancel setting confirmation and return to parent level.

[🔇 / ADJ] button
• Press the button to toggle MUTE function.
• Press and hold the button for 1 second or longer to enter Adjustment mode.

[SCN] button
• Press the button to perform track scan play for 10 seconds of each track while in the USB mode.
• Press the button during track scan to perform folder scan play while in the USB mode.
• Press the button during Folder scan to Off scan play.

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Names of the Buttons and their Functions

[RPT] button
• Press the button to perform track repeat play while in the USB mode.
• Press the button during track repeat to perform folder repeat play while in the USB mode.
• Press the button during Folder repeat to Off repeat play.

[RDM] button
• Press the button to perform track random play while in the USB mode.
• Press the button during track random to perform folder random play while in the USB mode.
• Press the button during Folder random to Off random play.

[DIRECT] buttons
• Recall station directly while in the Tuner mode.
• Press and hold the button for 1 second or longer to store a station into memory in the Tuner mode.

Basic Operations

Note: Be sure to read this chapter referring to the front diagrams of chapter "**2. CONTROLS**" on page 4.

⚠ CAUTION

Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.

Turning on/off the power

Note:
• Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.

1. Press the [◯] button.

2. The illumination and display on the unit light up. The unit automatically remembers its last operation mode and will automatically switch to display that mode.

3. Press the [◯] button more than 1 second to turn off the power for the unit.

Selecting a mode

1. Press the [SRC] button to change the operation mode.

2. Each time press the [SRC] button, the operation mode changes in the following order:

"TUNER" → "USB" → "B/TOOTH AUDIO" → "TUNER" → ...

Notes:
• If USB is selected when no device inserted, the display shows "**NO MEDIA**".
• If B/TOOTH AUDIO is selected when no bluetooth connected, the display shows "**NO AUDIO**".

Switching the display

1. Press the [DISP] button to select the desired display.
2. Each time you press the [DISP] button, the display switches in the following order:

● For USB mode:
Main Display (File Name) → Folder Name → Title Name → Artist Name → Album Name → Clock Display → Main Display...

● For Bluetooth Audio mode:
Main Display (Title Name) → Artist Name → Album Name → Clock Display → Main Display...

● For Tuner mode:
Main Display (Radio band) ↔ Clock Display
• Once selected, the preferred display becomes the default display. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display several seconds after the adjustment.

Adjusting the volume

Press the [VOL +/-] to increase/decrease the volume.

"VOL XX" will be displayed where "XX" is the volume level from 0 (minimum) to 30 (maximum).
Note:
• Factory default setting for volume is "VOL 10".

Audio mode adjustments

1. Press the [♪ / SOUND · ◁] button less than 1 second to enter the Audio Adjustment mode.

2. Press the [♪ / SOUND · ◁] button to select the "item name".

(PRE-EQ) → "BASS" → "MID" → "TREBLE" → "BALANCE" → "FADER" → Exit Audio Mode (Main Display)

3. Press the [VOL +/-] to adjust selected sound mode.

PRE-EQ : Adjustment range: FLAT/POP/ROCK/CLASSIC/HIPHOP/DANCE/JAZZ/HEAVY METAL
BASS : Adjustment range : -7 to +7
MID : Adjustment range: -7 to +7
TREBLE : Adjustment range : -7 to +7
BALANCE : Adjustment range : LEFT 12 to RIGHT 12
FADER : Adjustment range : REAR 12 to FRONT 12

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Basic Operations

Note:
• If no operation is performed for more than 7 seconds, the audio mode is cancelled and returns to the previous mode.
• Bass, Mid and Treble will be hidden when Preset -EQ other than FLAT is selected.

Adjusting the Preset Equalizer (PRE-EQ)

1. Press the [SOUND] button and select "PRE-EQ".

2. Pressing the [VOL +/-] button to select the following settings.

"PRE-EQ FLAT" ↔ "PRE-EQ POP" ↔ "PRE-EQ ROCK" ↔ "PRE-EQ CLASSIC" ↔ "PRE-EQ HIPHOP" ↔ "PRE-EQ DANCE" ↔ "PRE-EQ JAZZ" ↔ "PRE-EQ H-METAL"
Note:
• The factory default setting is "PRE-EQ FLAT".

Adjusting the bass

1. Press the [SOUND] button and select "BASS".

2. Pressing the [VOL +/-] button to emphasizes/attenuates the bass

"GAIN XX" will be displayed where "XX" is the value from -7 to +7.
Note:
• The factory default setting is "GAIN 0".

Adjusting the mid

1. Press the [SOUND] button and select "MID".

2. Pressing the [VOL +/-] button to emphasizes/attenuate the mid.

"GAIN XX" will be displayed where "XX" is the value from -7 to +7.
Note:
• The factory default setting is "GAIN 0".

Adjusting the treble

1. Press the [SOUND] button and select "TREBLE".

2. Pressing the [VOL +/-] button to emphasizes/attenuate the treble.

"GAIN XX" will be displayed where "XX" is the value from -7 to +7.
Note:
• The factory default setting is "GAIN 0".

Adjusting the balance

1. Press the [SOUND] button and select "BALANCE"

2. Pressing the [VOL +/-] button to emphasizes the sound from the right /left speakers. The display changes as follows:

"RIGHT XX" will be displayed where "XX" is the value from 1 to 12.

"LEFT XX" will be displayed where "XX" is the value from 1 to 12.
Note:
• The factory default setting is "CENTER".

Adjusting the fader

1. Press the [SOUND] button and select "FADER".

2. Pressing the [VOL +/-] button to emphasizes the sound from the front /rear speakers.

The display changes as follows:

"FRONT XX" will be displayed where "XX" is the value from 1 to 12.

"REAR XX" will be displayed where "XX" is the value from 1 to 12.
Note:
• The factory default setting is "CENTER".

Radio Mode Operations

Listening to the radio

1. Press the [SRC] button and select the Tuner mode, then the radio will be on.

2. To select a preset band, press the [BAND] button, and then select one of the preset bands such as FM1, FM2, FM3 or AM.

Every time the [BAND] button is pressed, the band switches in the following order:

FM1 ➔ FM2 ➔ FM3 ➔ AM ➔ FM1...

3. Press the [◀◀]/[▶▶] button to tune in the desired station.

Seek tuning

There are 2 types of seek tuning: DX SEEK and LOCAL SEEK.

DX SEEK can automatically tune in to receivable broadcast stations; LOCAL SEEK can tune in to only broadcast stations with good reception sensitivity.

1. Press the [BAND] button and select the desired band (FM or AM).

2. Press the [MENU] button for 1 second or longer to toggle DX/LOCAL seek. "**DX MODE/LO MODE**" will be displayed.

3. Press the [◀◀]/[▶▶] button for 1 second or longer to start automatic station tuning.

● DX SEEK

When the [▶▶] button is pressed and held in position for 1 second or longer, search will be performing in the direction of higher frequencies. When the [◀◀] button is pressed and held in position for 1 second or longer, search will be performed in the direction of lower frequencies.

* When seek tuning starts, "**DX SEEK**" appears in the display.

● LOCAL SEEK

If the [▶▶] button is pressed and held in position for 1 second or longer, search will be performing in the direction of higher frequencies. When the [◀◀] button is pressed and held for 1 second or longer, search will be performed in the direction of lower frequencies. Broadcast stations with good reception sensitivity are selected.

* When local seek starts, "**LO SEEK**" appears in the display.

Manual tuning

1. Press the [BAND] button to select the desired band, FM1,FM2,FM3 or AM.

2. Press the [◀◀]/[▶▶] button to manually tune in a station.

Preset memory function

Preset memory function can store up to 24 stations. There are 6 stations for each of FM1, FM2, FM3 and AM .

Manual memory function

1. Press the [BAND] button and select a band that you want to store in the memory.

2. Press the [◀◀]/[▶▶] button to tune into a desired station.

3. Press and hold one of the [DIRECT] buttons for 1 second or longer to store the current station into preset memory.

Auto store

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. If 6 receivable stations cannot be received, a previously stored station remains un-overwritten at the memory position.

1. Press the [BAND] button and select the desired band (FM or AM).

2. Press and hold the [PS/AS] button for 1 second or longer. The stations with good reception are stored automatically to the preset channels. "**A-STORE**" will be displayed.

* Auto store is performed in current band.

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

1. Press the [PS/AS] button.

2. When a desired station is tuned in, press the [PS/AS] button again to continue receiving that station. "**P-SCAN**" will be displayed and "**SCN**" indicator lights in the display.

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Radio Mode Operations

Note:
• Be careful not to press and hold the [PS/AS] button for 1 second or longer, otherwise the auto store function is engaged and the unit starts storing stations.

Recalling a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory. Pressing the corresponding [DIRECT] button recalls the stored radio frequency automatically.

1. Press the [BAND] button and select the desired band (FM or AM).

2. Press the corresponding [DIRECT] button to recall the stored station.

RDS Operations

RDS (Radio Data System)

This unit has a built-in RDS decoder system that supports broadcast stations transmitting RDS data. This system can display the name of the broadcast station being received (PS) and can automatically switch to the broadcast station with the best reception as you move long distances (AF switching).

When using the RDS function, always set the radio to FM mode.

• AF : Alternative Frequency
• PS : Programme Service Name
   • When set receives RDS signal, and can read PS data, PS appears in the display.

RDS mode adjustment

RDS mode is one of the Adjustment mode. Please refer to "**Other Operations**" on page 21 for details.

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USB Operations

USB memory device operation

Note:
- The following operations are available in USB mode.
  - Pause
  - Track selection
  - Fast-forward/fast-backward
  - Top function
  - Scan play
  - Repeat play
  - Random play
  - Folder selection

See "**USB Common Operations**" on page 13.

About USB

- USB is the abbreviation of Universal Serial Bus, an external bus standard that supports data transfer rates of 12Mbps. The main unit is compatible with USB 1.1/2.0 with maximum data transfer rates of 12Mbps (Full Speed).

- USB memory devices that can be played by connecting to the unit's USB cable are limited to those recognized as "**USB mass storage class device**"; operation is not guaranteed with all USB memory devices. For USB memory devices compatibility, please consult the nearest service dealer for more information.

  - Devices compatible with "**USB Mass Storage Class**" can be used simply by connecting to the host device, without need for special drivers or application software.

- Consult the manufacturer of your USB memory device for information regarding whether it is supported by "**USB Mass Storage Class**" standards. Please take note that hard disk drive (HDD) is not supported.

- To prevent the accidental loss of data, always back up important data to your computer.

- This unit does not support connections to a computer. In addition, connections made through a USB hub device are also not supported.

- If the USB memory device supports multiple partitions, only the first partition will be supported.

- The order in which tracks are recorded may be differ depending on the USB memory devices connected (the actual playback order may not be the same as that indicated on your computer's display).

- Audio files playable on this unit are limited to MP3/WMA/FLAC files. For further information on MP3/WMA/FLAC playback, please refer to "**USB Common Operations**" on page 13.

⚠ CAUTION

- Do not try to put your hand or fingers in the USB insertion slot. Also never insert foreign objects into the slot.

- USB memory device insertion may result in protruding as it might be dangerous to the user while driving. For safety purposes, it is advisable to use a USB extension cable to connect between the USB memory device and the USB port on the main unit.

- Do not leave a USB memory device unattended in an automobile. Exposure to direct sunlight or high temperatures may cause deformation or other malfunction of the USB memory device.

- When the device is subjected to static electricity or electric noise, this may result in the loss of data.

● **Folder structure**

1. An USB memory device with a folder having more than 8 hierarchical levels will be impossible.

● **Number of files or folders**

1. Up to 255 files per folder can be recognized. Up to 10000 files can be played.

2. Up to a maximum of 512 folders can be supported. However, actual folders support will still be depending on total files.

3. Tracks are played in the order that they were recorded onto a device. (Tracks might not always be played in the order displayed on the PC.)

4. Some noise may occur depending on the type of encoder software used while recording.

USB Operations

● **Precautions when creating MP3/WMA/ FLAC on USB memory device**
- Usable sampling rates and bit rates:

MP3	
Decode Format	MPEG 1, 2 and 2.5 - Layer 3
Sampling Rate (kHz)	MPEG-1 : 32, 44.1, 48 MPEG-2 : 16, 22.05, 24 MPEG-2.5 : 8, 11.025, 12
Bit-rate (kbps)	MPEG-1 : 32 - 320 MPEG-2 : 8 - 160 MPEG-2.5 : 8 - 160 VBR

WMA	
Sampling Rate (kHz)	8, 16, 22.05, 32, 44.1
Bit-rate (kbps)	48 - 192

FLAC	
Sampling Rate (kHz)	44.1
Bit-rate (kbps)	All

Hot plugging function

This unit has the ability to recognize the changes of connecting and disconnecting a USB memory device.

When the unit is powered on, this function allows you to start playing the tracks automatically when the USB memory device is inserted.

Connecting a USB memory device

1. Connect the USB memory device into the port with the correct direction.

2. Playback will begin from the first track on the USB memory device.

   - Always insert the USB memory device fully into the port. Incomplete connections may cause the USB memory device to be not recognizable.

   - Depending on the number of tracks recorded, some amount of time may be required until all tracks are read into the unit.

   - USB memory devices may have different shape depending on brands. Some USB memory devices may not be able to plug into the port due to the shape design. Please use an extension cable instead.

Note:
- Do not forcibly connect the USB memory device to the port with incorrect direction as this will damage the USB memory device as well as the USB port.

Listening to a track with USB memory device already connected to the unit

Press the **[SRC]** button to select the USB mode.

When the unit enters the USB mode, track will start to play automatically.

If there is no USB memory device inserted, "**NO MEDIA**" will be shown for selection

   - The operation mode changes in the following order each time the **[SRC]** button is pressed.

"**TUNER**" ➔ "**USB**" ➔ "**B/TOOTH AUDIO**" ➔ "**TUNER**" ➔ ...

Unplug the USB memory device

Remove the USB memory device from the port during USB mode,"**NO MEDIA**" will be shown for 4 seconds before revert to Radio mode.

Alternatively, user can remove USB memory device at any other mode. It is safe to remove USB memory device during track playing.

USB Common Operations

Note:
- USB will have different functionalities in some cases. Please read carefully where differences applied.

Pausing play

1. Press the **[▶/II]** button to pause play. "**PAUSE**" is shown in the display.

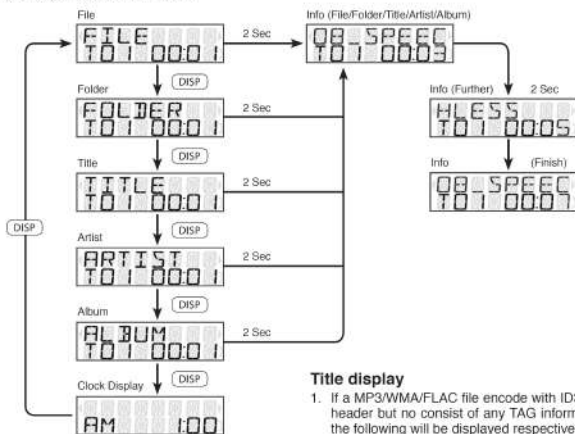2. To resume USB play, press the **[▶/II]** button again.

Display selection

1. You can choose the display type for USB by pressing the **[DISP]** button. To select the next type, press the same button again.

● **USB mode:**

Main Display (File Name) → Folder Name → Title Name → Artist Name → Album Name → Clock Display → Main Display...

where Track, Folder, Title Tag, Album Tag and Artist Tag are called Title Display.

The arrangement is shown below.

File

Info (File/Folder/Title/Artist/Album)

Folder

Info (Further)   2 Sec

Title

Info   (Finish)

Artist

Album

Clock Display

Note:
- Each of the items in Title Display will display "**FILE**", "**FOLDER**", "**TITLE**", "**ARTIST**" or "**ALBUM**" respectively for 2 seconds before showing related title information.

Title display

1. If a MP3/WMA/FLAC file encode with ID3 TAG header but no consist of any TAG information, the following will be displayed respectively.

"**NO ALBUM NAME**" for Album Tag

"**NO ARTIST NAME**" for Artist Tag

"**NO SONG NAME**" for Title Tag

Note:
- The folder name will be displayed as "**ROOT**" which the file allocates in the root folder.
- For MP3, it supports ID3 Tags V2.4/2.3/2.2/1.1/ 1.0.
- The MP3 player decodes each file ID3 TAG ver. 2 by default, if ID3 TAG ver. 2 is unavailable, ID3 TAG ver. 1 will be decoded.

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USB Common Operations

- UNICODE ID3 (Chinese, Japanese and etc) is not supported. Only ASCII characters can be displayed in Tags.
- If ID3 TAG has Japanese, Chinese or other non-supported characters, "∗" will be displayed as substitution.

Selecting a track

● **Track-up**

1. Press the **[▶▶]** button to move to the beginning of the next track.

2. Each time the **[▶▶]** button is pressed, playback proceeds to another track in the advancing direction.

● **Track-down**

1. Press the **[◀◀]** button to move to the beginning of the current track.

2. Press the **[◀◀]** button twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold the **[▶▶]** button for 1 second or longer.

● **Fast-backward**

Press and hold the **[◀◀]** button for 1 second or longer.

MP3/WMA/FLAC playing order

During playback, files and folders are accessed in the order in which they were written by the CD-ROM writer or PC. Files might not always be played in the order displayed on the PC. You may be able to set the order in which MP3/WMA/

FLAC files are to be played by writing them onto a medium such as a USB with their file names beginning with play sequence numbers such as "**01**" to "**99**", depending on your USB writer.

For example, a medium with the following folder/file hierarchy is shown below.

Level 1   Level 2   Level 3   Level 4

🗀 Root   📁 Folder   🎵 File
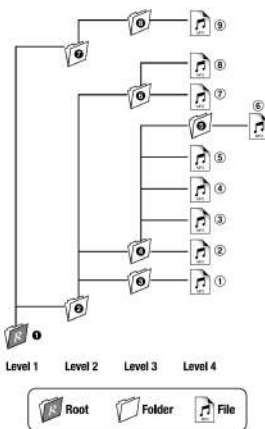
Folder select

This function allows you to select a folder containing MP3/WMA/FLAC files and start playing from the first track in the folder.

1. Press the **[▲ FLD]** button to move the next folder. Press the **[▼ FLD]** button to move the previous folder.

Root folder
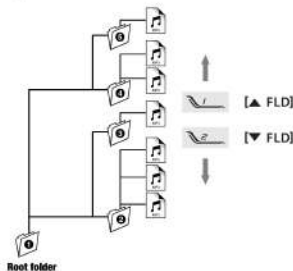
- Press the **[▲ FLD]** button while in the final folder will shift to the first folder.
- Folder without any MP3/WMA/FLAC file is not selectable.

2. Press the **[◀◀]/[▶▶]** button to select a track.

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USB Common Operations

Top function

Press the **[BAND]** button, then the USB will start playing from the top.

Start to play the first track of first folder.

Other various play functions

● Scan play

This function allows you to locate and play the first 10 seconds of all the tracks in all folders.

1. Press the **[SCN]** button to perform scan play. the "**SCN**" indicator lights in the display.
   * Scan play starts from the next track after the track currently being played.
   * Scan play will proceed to next folder after all the tracks in the current folder have been scanned.

● All scan play

This function allows you to locate and play the first 10 seconds of the first track of all the folders on an USB.

1. Press **[SCN]** button during scan play to perform all scan play. the "**ALL**" and "**SCN**" indicators light in the display.
   * All scan play will always start from the first track of next folder.

● To Cancel Scan

1. Press the **[SCN]** button again during All Scan play.the "**ALL**" and "**SCN**" indicators are turned off.

● Repeat play

This function allows you to play the current track repeatedly.

1. Press the **[RPT]** button to perform repeat play. the "**RPT**" indicator lights in the display.

● All repeat play

This function allows you to play all tracks in the current USB folder repeatedly.

1. Press **[RPT]** button during repeat play to perform folder repeat play. the "**ALL**" and "**RPT**" indicators light in the display.

● To Cancel Repeat

1. Press the **[RPT]** button again during All Repeat play.the "**ALL**" and "**RPT**" indicators are turned off.

● Random play

This function allows you to play all tracks of current folder in a random order.

1. Press the **[RDM]** button to perform random play.
   The "**RDM**" indicator lights in the display.

● All random play

This function allows you to play all the tracks of all the folders recorded on a USB in a random order.

1. Press **[RDM]** button during random play to perform all random play. The "**ALL**" and "**RDM**" indicators light in the display.

● To Cancel Random

1. Press the **[RDM]** button again during All Random play.the "**ALL**" and "**RDM**" indicators are turned off.

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Introduction to *Bluetooth*® Wireless Technology

What is *Bluetooth*® wireless technology?

Bluetooth® wireless technology is a radio technology that connects devices, such as mobile phones and headsets, without wires or cords over a short distance of approximately 10 meters (Approx. 33 feet). Get more information at **www.bluetooth.com**.

What is *Bluetooth*® wireless profiles?

Bluetooth® wireless profiles are the different ways that *Bluetooth*® devices communicate with other devices. *Bluetooth*® phones support the hands-free profile (HFP). In order to support a certain profile, a phone manufacturer must implement certain mandatory features within the phone's software. The followings are the currently supported profiles for the main unit.

● Hands-Free Profile (HFP)

This profile is commonly used to allow car hands-free kits to communicate with mobile phones in the car. The *Bluetooth*® car kits allow users with *Bluetooth*®- equipped cell phones to make use of some of the phone's features.

● Advanced Audio Distribution Profile (A2DP)

This profile allows you to send CD quality stereo music from external audio player to car stereo without wires. A2DP is able to provide crystal clear music without the hassle of plugging cables. *Bluetooth*® Wireless Technology with A2DP makes mobiles phones, PDAs and computer capable of streaming music.

● Audio/Video Remote Control Profile (AVRCP)

This profile enables music from *Bluetooth*® audio player to be controlled remotely. AVRCP allows some basic playback control function such as play/pause, volume up/down and next/previous track to a *Bluetooth*® audio player.

What is pairing?

Bluetooth® devices will not work if the devices have not been paired. With a mobile phone featuring *Bluetooth*® technology, you must 'pair' the car stereo with the phone before you use it for the first time. 'Pairing' creates a unique wireless link between the phone with *Bluetooth*® wireless technology and your car stereo eliminating the need to repeat the pairing process during future use.

What is passkey?

Passkey or PIN is a code that you enter on your mobile phone to pair it with the *Bluetooth*® receiver unit. This makes your phone and the *Bluetooth*® receiver units recognize each other and automatically work together. The *Bluetooth*® wireless function in your phone has to be turned on to establish automatic connection.

Telephone Menu Mode

1. Press and hold the **[TEL]** button for 1 second or longer to enter Telephone mode.
2. Press **[◄◄]/[►►]** button select the item.
   VOICEDIAL ↔ REDIAL

Note:
* Telephone menu mode only can access when Bluetooth connected.
* Voicedial only can support Android version 6 and above.

Bluetooth Settings Mode

1. Press and hold the **[ADJ]** button for 1 second or longer to enter Adjustment mode.
2. Press the **[◄◄]/[►►]** button to select the "**B/TOOTH SETTINGS**" in the item list.
   ● Please refer chapter "**Other Operations**" on page 20 for Adjustment function.
3. Press **[►II]** button to enter "**B/TOOTH SETTINGS**" mode.
4. Press **[◄◄]/[►►]** button to select the item.
   (**CONNECT DEVICE**) ↔ **ADD DEVICE** ↔ (**DELETE DEVICE**) ↔ (**DISCONN DEVICE**) ↔ **B/TOOTH RESET**

Note:
* Items in brackets will be displayed according to connection status.

Pairing with a mobile phone

1. Select "**ADD DEVICE**" from B/TOOTH SETTINGS mode.
2. Press **[►II]** button to enter then "**PAIRING**" is displayed.
3. Activate *Bluetooth*® on your mobile phone. Please check your mobile phone owner's manual for further details.
4. Search for new *Bluetooth*® device on the mobile phone. The car stereo's name is "**PROTON**".
5. Perform one of the method below:
   For newer phone that supports Secure Simple Pairing (SSP):
   ● A random 6 digit passkey will be displayed. Compare and confirm the passkey on both the phone and head unit are matched.

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For classic phone:
- Enter the defined PIN code when prompt ("**0000**" by default).

Upon successful pairing, system will automatically connect with the phone. the mobile phone will prompt for a passkey, enter the PIN.

Notes:
- Please make sure your mobile phone supports the HFP profiles.
- Always make sure the Bluetooth Operation mode in the phone is on when using this car handsfree.
- Any further connection attempts by other devices to connect as HFP partner are rejected until the current device is disconnected. Please refer your mobile phone owner's manual for disconnecting device.
- Timeout for pairing mode is 2 minutes.
- Please refer chapter "**Handsfree Operations**" on page 19 for telephone function.

Pairing with an external audio player (A2DP support)

1. Select "**ADD DEVICE**" from B/TOOTH SETTINGS mode.
2. Press [▶II] button to enter then "**PAIRING**" is displayed.
3. Set the *Bluetooth*® audio player in Pairing mode.

Notes:
- Please make sure your external audio player supports the A2DP and AVRCP profiles.
- Any further connection attempts by other devices to connect as A2DP/AVRCP partner are rejected until the current device is disconnected.
- The same device may connect as both A2DP/ AVRCP and HFP partner. This normally happens to mobile phone with wireless music streaming capability. However, using the same device might cause the A2DP/AVRCP to be disconnected when there is an incoming call or making a call.

- Timeout for pairing mode is 2 minutes.
- Please refer chapter "**Audio Streaming Operations**" on page 20 for music streaming functionality.

Cancelling pairing mode

1. During pairing mode, press the [**BAND**] button once to cancel Pairing mode.
2. The display returns to previous mode.

Deleting paired devices

1. Select "**DELETE DEVICE**" from B/TOOTH SETTINGS mode.
2. Press the [▶II] button. If there is device paired, "**XXXXXXXX**" will be displayed
3. Press [◀◀/▶▶] button to select a device to be deleted and press the [▶II] button for the confirmation. "**DELETED**" will be displayed.
4. During "**DELETE ALL**", press the [**ENT**] button will delete all devices. "**DELETED**" will be displayed
5. During "**DELETE ALL**", press the [▶II] button will enter the confirmation screen.
6. Press [**VOL+**] button to select "**YES**" and press [▶II] button for the confirmation.
7. Press [**VOL -**] button to select "**NO**" and press [▶II] button to return to previous screen.

Note:
- Upon finish deleting, display will switch to B/TOOTH SETTINGS.

Connecting *Bluetooth*® device

The unit will automatically connect to the paired device after pairing. However, some phones will not allow automatic connection to the device after pairing; please use the phone to manually connect to the unit. Connection can be established at any Source mode. If connection is unsuccessful, automatic connection will stop.

1. Select "**CONNECT DEVICE**" from B/TOOTH SETTINGS mode.
2. Press [▶II] button.
3. Press [◀◀/▶▶] button to select a paired device to be connect and press the [▶II] button.
4. Unit will try to establish a connection with the selected connected phone.

Notes:
- The "**⊙**" indicator will light on and device name and "**CONNECT**" will be displayed upon successful connection.
- The unit will also automatically connect to the last connected phone when car ignition is turned on.
- Make sure your phone's Bluetooth function is turned on, within acceptable range and no other Bluetooth devices such as headset is connected during automatic connection.
- Connection activated through unit is only HFP (Handsfree).
- Audio streaming connection will need to be initiated by the Bluetooth audio device itself. Some phones will connect audio streaming as well when HFP is connected.
- Any connection attempt with a new device will require disconnecting previously connected device first. Otherwise, connection will not be successful.
- It is not recommended to connect 2 devices (phone and external audio player) at the same time.

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Disconnecting *Bluetooth*® device

1. Select "**DISCONN DEVICE**" from B/TOOTH SETTINGS mode.
2. Press [▶II] button.
3. Press [**VOL +**] button to select "**YES**" and press [▶II] button for the confirmation.
4. Press [**VOL -**] button to select "**NO**" and press [▶II] button to return to previous screen.
5. Unit will disconnect from all connected devices.

Notes:
- User can use the phone/device to manually disconnect from the unit.
- Turning off the unit power will also disconnect the device.

Resetting Bluetooth Settings

1. Select "**B/TOOTH RESET**" from B/TOOTH SETTINGS mode.
2. Press [▶II] button.
3. Press [**VOL +**] button to select "**YES**" and press [▶II] button for the confirmation.
4. Press [**VOL -**] button to select "**NO**" and press [▶II] button to return to previous screen.
5. All *Bluetooth*® setting will reset to factory default setting.

Note:
- All Pairing information will be deleted.

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Handsfree Operations

Incoming call

Whenever your car stereo is operating, the car stereo is in standby mode waiting for the next call. When an incoming call arrives the car stereo is muted automatically and the ring tone is reproduced through your car's speaker.

Car stereo will temporarily switch to Telephone mode and caller ID will be displayed in the car stereo.

Notes:
- Car stereo will be automatically set as default speaker output every time when there is an incoming call.
- Caller ID display (telephone number) is dependent on mobile phone and network provider.
- Caller ID and **"CALLING"** will be displayed during incoming call.

● Answering a call

User can answer an incoming call directly from the car stereo. Alternatively, you may also answer the call by using your phone's answer keypad.
1. Short press the [📞] button to pick up an incoming call.
2. The display switch to Telephone mode.
3. During conversation, talk time is displayed.
4. Press the button [DISP] to transfer call between phone and head unit during conversation. **"PRIVATE MODE"** will be displayed.

● Rejecting a call

This function allows you to reject an incoming call via the car stereo.
1. Press the [📞] button to reject an incoming call.
2. **"CALL REJECTED"** will display before returns to previous mode.

Note:
- Alternatively, you may also reject the call by using your phone's keypad.

● Ending a call

This function allows you to end a call conversation via the car stereo.
1. Press the [📞] button to end the call.
2. **"CALL ENDED"** will display before returns to previous mode.

Note:
- Alternatively, you may also end the call by using your phone's keypad.

Making a call (Redial)

1. Select **"REDIAL"** from Telephone Menu mode.
2. Press [▶II] button.
3. **"DIALING"** will be displayed when call is successfully activated.

Notes:
- Redial function is highly dependent on phone and phone's screen display level.
- Alternatively, user can make calls using the phone's keypad.

Making a call (Voice dial)

1. Select **"VOICE DIAL"** from Telephone Menu mode.
2. Press [▶II] button.
3. **"DIALING"** will be displayed when call is successfully activated.

Cancelling a call

This function allows you to cancel an outgoing call via the car stereo.
1. Press the [📞] button to cancel an outgoing call.
2. **"CALL ENDED"** will display before returns to previous mode.

Note:
- Alternatively, you may also cancel the call by using your phone's keypad.

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Audio Streaming Operations

Note:
- Be sure to read the chapter "**Pairing with an external audio player (A2DP support)**"before proceeding.

What is audio streaming?

Audio streaming is a technique for transferring audio data such that it can be processed as a steady and continuous stream.
Users can stream music from their external audio player to their car stereo wirelessly and listen to the tracks through the car's speakers.

Listening to audio streaming

1. Press the [SRC] button and select the B/TOOTH AUDIO mode, then audio streaming will be played.

 **"TUNER" → "USB" → "B/TOOTH AUDIO" → "TUNER" → ...**

Notes:
- System will not automatically switch to B/TOOTH AUDIO mode when A2DP is connected.
- If the B/TOOTH AUDIO mode is selected when no A2DP device is connected, the display shows "**NO AUDIO**".

Play/Pause a track

1. Press the [▶II] button to pause play.
2. To resume track play, press the [▶II] button again.

Selecting a track

● Track-up

1. Press the [▶▶] button to move to the beginning of the next track.
2. Each time the [▶▶] button is pressed, playback proceeds to another track in the advancing direction.

● Track-down

1. Press the [◀◀] button to move to the beginning of the previous track.
2. Each time the [◀◀] button is pressed, play back proceeds to previous track in the reverse direction.

Fast-forward/fast-backward

● Fast-forward

1. Press and hold the [▶▶] button for 1 second or longer.

● Fast-backward

1. Press and hold the [◀◀] button for 1 second or longer.

Note:
- This feature is dependent on mobile phone and mobile application.

● Display selection

1. You can choose the display type by pressing the [DISP] button.
2. Every time the [DISP] button is pressed, the display type switches in the following order:

  Main Display (Title Name) → Artist Name → Album Name → Clock Display → Main Display...

Other Operations

Adjustment mode

1. Press and hold the [ADJ] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀]/[▶▶] button to select the "**item name**".

  "12/24 HR" ↔ CLOCK EDIT ↔ B/TOOTH SETTINGS ↔ RDS SETTINGS ↔ FACTORY RESTORE
  - Some of the items will have " **ENT** " indicator light on, the [▶II] button must be pressed to display the setting value.
3. Press the [VOL +/-] button to select the "**desired setting value**".

● Clock Format

Toggle between 12 or 24 hour format for clock display.
1. Press the [VOL +/-] button to select "**24 HOURS**" or "**12 HOURS**"

  12 HOURS - 12 hour format display
  24 HOURS - 24 hour format display

● Clock Edit

This settings allows the user to adjust the clock manually.
1. Select "**CLOCK EDIT**".
2. Press the [▶II] button.
3. Press the [◀◀]/[▶▶] to toggle between hour/minute adjustment.
4. Press the [VOL +/-] button to decrease the hour/minute.
5. Press the [▶II] button to store the settings.

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Other Operations

● AF function

The AF function switches to a different frequency on the same network in order to maintain optimum reception.

1. Select AF function from "**RDS SETTINGS**" mode.
2. Press the [▶II] button.
3. Press the **[VOL +/-]** button to select **"AF ON"** or **"AF OFF"**.

● **AF ON:**
"**AF**" in the display lights and AF function turns on.

● **AF OFF:**
"**AF**" in the display goes off and AF function turns off.

● Factory Restore

1. Select "**FACTORY RESTORE**".
2. Press the [▶II] button.
3. Press **[VOL +]** button to select "**YES**" and press [▶II] button for the confirmation.
4. Press **[VOL -]** button to select "**NO**" and press [▶II] button to return to previous screen.

Note:
· System will restart when factory restore is initiated.

Compatible Devices

Supported phones with *Bluetooth*® wireless technology

Make sure your mobile phone supports the following *Bluetooth*® profile:
- HFP (Handsfree for mobile phone)
Optional profiles for audio streaming in mobile phone:
- A2DP (Stereo music streaming)
- AVRCP (Remote control function)
Compliant with *Bluetooth*® version (V3.0, V2.0, V1.2 and V1.1)

Please check your phone's specification for supported profiles or consult Proton service center for your phone compatibilities.

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5. TROUBLESHOOTING

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced)	Fuse is blown	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
		Incorrect wiring.	Consult your store of purchase.
	No sound heard.	The speaker protection circuit is operating.	1. Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates). 2. If the sound is muted again, consult our service department.

	Problem	Cause	Measure
B/TOOTH Audio	Audio streaming is disconnected after telephone interrupt.	Some phones will disconnect A2DP during telephone interrupt.	Reconnect A2DP/AVRCP (Audio streaming profiles) from the phone again after telephone interrupt. Disconnect and reconnect *Bluetooth*® connection if necessary.
	Cannot perform remote control for audio streaming.	AVRCP is not connected.	Disconnect and pair the device again. Or refresh *Bluetooth*® service list in phone.
	Audio streaming will begin to pulse on/off when using your connected phone.	Due to excessive *Bluetooth*® activity on a low bandwidth link. Some phones will not handle this well.	If your phone is facing this problem, please do not use your phone while audio streaming.
	Display is showing "**B/TOOTH AUDIO**" but there is no sound output.	Music in external audio player might be paused.	Check whether both device and main unit are in play status. Change the status in the device if necessary. If problem persists, turn external music player off and on.
		There might be connection links broken between the devices.	Please delete pairing information on both device and main unit and start re-pairing.

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Troubleshooting

Problem	Cause	Measure
No sound heard.	MP3/WMA/FLAC files are absent in the USB memory device.	Write MP3/WMA/FLAC files onto the USB memory device properly.
	Files are not recognized as an MP3/WMA/FLAC file.	Use MP3/WMA/FLAC files encoded properly.
Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA/FLAC files are not encoded properly.	Use MP3/WMA/FLAC files encoded properly.
USB memory device cannot be detected.	USB memory device may be damaged.	Reinsert the USB memory device to try again. Replace with a new USB memory device if failed.
	USB memory device connector is in bad condition.	
	There may be compatibility issue with the USB memory device.	Please use another USB memory device
USB memory device is unable to plug into the USB slot.	The USB memory device connector may be inserted to the slot in the wrong direction.	Reinsert the USB memory device with the correct direction.
	USB memory device may be damaged.	Replace with a new USB memory device.
	The shape design of the USB memory device prevents it to be properly inserted to the slot.	Use a USB extension cable.
USB card reader cannot be detected.	USB card reader is connected to main unit first before inserting memory card to the card reader.	Insert the memory card to USB card reader first before connecting to the main unit.
USB hard disk drive (HDD) cannot playback or error display is shown.	These devices are not supported.	Use only compatible USB memory device.
Unable to playback songs.	There may be compatibility issue with the USB memory device.	Please use another USB memory device
	Too many songs are stored, some amount of time are required to read all the tracks available.	Reduce the number of songs in the USB memory device.

(Left vertical label: MP3/WMA/FLAC (USB memory device))

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Troubleshooting

Problem	Cause	Measure
After pairing, car stereo is not able to receive and make calls.	Bluetooth® connection is not established yet.	Use your phone to manually connect or select "**CONNECT DEVICE**" from Bluetooth Setting Menu mode to connect the selected paired phone.
	Normally it will take several seconds to establish the connection after pairing.	
	Some phones will not automatic connect after pairing.	Restart car ignition and perform pairing again. Always make sure pairing information on both device and main unit have been deleted before starting a new pairing activity.
		If the problem persists, please consult with nearest service center for your phone compatibility.
	Car stereo is connected to other device.	Disconnect the previous device and reconnect current device.
Unable to reconnect to car stereo using phone.	The device pairing information may have been deleted from the unit.	Please make sure the device is still in the device list of the unit and perform the above measure.
Callers voice sounds distorted or is intermittent.	Volume is too loud (depends on the car environment, speakers and microphone) and half-duplex mode is automatically triggered.	Try reducing the telephone volume level.
Caller reports poor voice quality at remote end.		
Difficulties of pairing and connecting with phone during another Bluetooth® operation such as audio streaming.	Due to excessive Bluetooth® activity on a low bandwidth link, it may result hard to get paired and connected.	Disconnect all devices. Try pairing with phone first and connect A2DP device later.
There is no sound output when incoming call is answered.	Incoming call was answered too quickly before you hear the ringing tone. This can cause the audio not properly transferred to the main unit by some phones.	Please use your phone to transfer the audio back to the phone for the current ongoing call.
		Kindly answer the call only when you hear a ringing tone next time.
		If the problem persists, please reconnect the phone or create new pairing before the next incoming call.
There is no sound output during conversation.	Bluetooth® communication link is lost.	Please disconnect the phone and reconnect. If the problem persists, please create new pairing for both phone and main unit.
Cannot operate the handsfree function properly	No response from mobile phone.	Turn off and on the mobile phone.

(Left vertical label: Bluetooth and Telephone)

6. ERROR DISPLAYS

	Error Display	Cause	Measure
USB MEMORY DEVICE	**DEVICE ERROR**	Failure detection of USB memory device when it is plugged into the port.	Unplug the USB memory device and re-plug into the port.
	NO FILE	No audio file is detected in the media.	Replace with audio contents loaded USB memory device.
	OVER CURRENT	USB connector short circuit/ overloaded.	Unplug the USB memory device, turn off the car stereo power and then turn on the power again.
	NO RESPONSE	Device no response after 20 sec of file reading.	Reduce the number of file in the USB memory device.
	USB HUB ERROR	USB HUB is connected	Unplug the USB HUB and plug in USB memory device into the port.

	Error Display	Cause	Measure
Bluetooth®	**CALL FAIL**	Calling is not successful.	Please try a few more times or dial from phone if necessary.

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7. SPECIFICATIONS

Radio section

Tuning system	: PLL Synthesizer tuner
Receiving frequencies	: FM : 87.5 to 108 MHz
	(0.05 MHz steps, Manual)
	(0.1 MHz steps, Auto)
	AM : 531 to 1602 kHz (9 kHz steps)

USB section

Compliance	: USB 2.0

General

Max. power output	: 4 x 25 W (4 Ω load)
Current consumption	: Less than 10 A
Speaker impedance	: 4 Ω (4 Ω to 8 Ω allowable)
Power supply voltage	: DC 13.2V, negative ground.
Weight	: 1.316 kg
Dimensions	: 185.14mm Width x 107.14mm Height x 173.57mm Length

Bluetooth® wireless technology

Compliance	: *Bluetooth®* 4.0
Frequency range	: 2.40 to 2.4835 GHz, ISM band
RF power	: Class 2 (2.5mW)
Profiles	: HFP, A2DP, AVRCP
Telephone operation	: Noise reduction, Echo cancellation, Full duplex telephony

Note:
● Specifications and design are subject to change without notice for further improvement.

WARRANTY INFORMATION

· FOR WARRANTY INFORMATION AND CLAIMS WITHIN THREE YEARS OR 100K KM OF CAR PURCHASE PLEASE CONTACT YOUR NEAREST PROTON EDAR SERVICE CENTER.

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PROTON
INSPIRING CONNECTIONS

Part No	: 280-9564-00
Language	: ENGLISH
Model	: PW953699, PW953793
	PW953955, PW953994
Date	: APRIL 2019

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