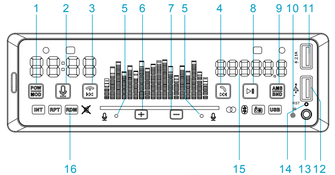
PL-60MB Power Acoustik

Voice Assistant/Touch/Gesture Control Screen

01 Description of features of the panel



1. ON/OFF/mode switch key
2. One-key wake-up of voice assistant key
3. Selection of the previous songs/Next frequency search/on-hook key
4. Selection of the next songs and next frequency search/ talking key
5. Microphone
6. Volume Up key
7. Volume Down key
8. Pause/playback/mute key
9. Band switch/automatic radio station memorizing key
10. Infrared receiving window
11. USB charging port
12. USB socket
13. AUX-IN jack
14. Reset key
15. LED display screen
16. Work instruction icon

02 Description of features of the panel

01 ON/OFF/mode switch key

1) In the OFF state, short press this key for ON.
2) In the ON state, short press this key for the switch between radio, USB, BT, and AUX.
3) In the ON state, press and hold this key for OFF.
(Note: In the absence of U disk, the head unit will automatically skip to the next mode.)

02 One-key wake-up of voice assistant key

When the Bluetooth is connected, short press this key for one-key wake-up of voice assistant, and realize the following functions of the mobile phone through the voice command: Navigation, ringing up, send messages through WeChat, playing music.
(Note: This function can be used when the mobile phone supports the voice assistant function, and is equipped with the voice assistant APP)

03 Selection of the previous songs/previous frequency search/on-hook key

1) In the reception state, short press this key for previous frequency selection of radio station ID, and press and hold this key for previous frequency manual search of radio stations.
2) In MP3 playback state, short press this key for selection of the previous song; Press and hold this key to play the previous 10 songs.
3) After the Bluetooth is connected, when the phone rings, short press this key for hanging up.

04 Selection of the next songs and next frequency search/ talking key

1) In the reception state, short press this key for next frequency selection of radio station ID, and press and hold this key for next frequency manual search of radio stations.
2) In MP3 playback state, short press this key for selection of the next song; Press and hold this key to play the next 10 songs.
3) After the Bluetooth is connected, when the phone rings, short press this key for getting on the phone. In the call state, short press this key for the switch between the mobile phone call and the head unit call. After hanging up, press and hold this key in the Bluetooth mode for redialing.

05 Microphone

It is used to collect the call sound when the Bluetooth call or wake-up of voice assistant is ongoing in the mobile phone.

06 Volume Up key

In the ON state, press the key to increase the volume by 1 and press and hold this key to increase the volume in rapid succession.

07 Volume Down key

In the ON state, press the key to decrease the volume by 1 and press and hold this key to decrease the volume in rapid succession.

08 Pause/playback/mute key

1) In MP3/Bluetooth playback state, short press this key for pause and short press this key again to remove the pause playback.
2) In the radio receiver/AUX state, short press this key for mute and short press this key again to unmute.
(Note: In mute, unmuting can be realized by touch or gesture control function)
3) In the startup state, press and hold this key repeatedly to enter the following options: (BASS, TRE, BAL, FAD, LOUD, EQ, ALL, CLOCK, namely bass, treble, left and right balance, front and rear balance, equal loudness, sound effect, playback mode, clock) functions. Press and hold this key repeatedly to switch different functions, select the functions to be set, and set the corresponding value by short pressing +、- key.

09 Band switch/automatic radio station memorizing key

In radio receiver mode, short press this key to switch the frequency band between FM1, FM2 and FM3,AM1,AM2,AM3.Press and hold this key for automatic search and radio station memorizing. When the station is searched, 30 stations at most can be automatically memorized in FM1, FM2 and FM3,AM1,AM2,AM3bands. During the memorizing, the LED display shows the memorized bands and the memorized radio station IDs.

10 IR infrared receiving window

It is used to receive instructions issued from the remote controller.

11 USB charging port

Insert the USB interface of the mobile phone charging cable in a direction to charge the mobile phone. The charging port can support a maximum charging current of 2A.

12 USB socket

Insert the U disk with music in a direction, and then play the song of corresponding format immediately.

13 AUX-IN jack

Used to connect external audio signals.

14 RST Reset key

When the head unit system function is in confusion, short press "RESET" key to reset the head unit software system to the factory state.

15 88.8 LED display screen

It's used to display time and playback related information. In FM, Bluetooth, AUX state, the current clock time is displayed on the left side of the LED display screen. When USB music is played, the current song playback time schedule is displayed on the left side of the LED display screen, instead of the current clock time.

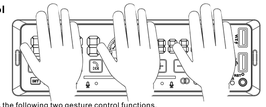
16 Work instruction icon

03 Time setting

In FM, AUX, BT mode, press and hold [M] repeatedly until the CLOCK menu is displayed, release the touch for 1 second and then short press [M] to enter the time setting and two digits representing the hour flash. After short pressing [-] , [+] repeatedly to adjust the hour to reach the set value, short press [M] again and the two digits representing the minute flashes to enter the minute setting. After short pressing [-] , [+] repeatedly to adjust the minute to reach the set value, release the touch, and the software will automatically exit the time setting after 3 seconds.

04 Gesture control

- Left-right swiping



The machine supports the following two gesture control functions.
1. Swiping your hand from left to right
In the reception state, swipe your hand from left to right, with the function of next frequency selection of radio station ID.
In MP3, Bluetooth playback state, swipe your hand from left to right, with the function of selection of next songs.
After the Bluetooth is connected, when the phone rings, you can get on the phone through swiping your hand from left to right. During a phone call, the switch between the mobile phone call and the head unit call can be realized through swiping your hand from left to right again. After the phone is connected, the switch between the mobile phone call and the head unit call can be realized through the same operation.
2. Swiping your hand from right to left
In the reception state, swipe your hand from right to left, with the function of previous frequency selection of radio station ID.
In MP3, Bluetooth playback state, swipe your hand from right to left, with the function of selection of previous songs.
After the Bluetooth is connected, when the phone rings or the phone is connected, you can hang up through swiping your hand from right to left.
(Notes: In order to avoid false triggering and increase sensitivity, the distance between the hand and the head unit should not exceed 20CM during gesture control, and the hand should be swiped from one side of the head unit to the other side at a constant speed

05 Bluetooth pairing

1. Pairing of the mobile phone and the head unit
First, turn on the head unit, and press the [MODE] mode switch key to switch to BT mode. Move the mobile phone close to the head unit, turn on the Bluetooth function of the mobile phone, and then search for the Bluetooth name of the head unit (Power Acoustik) through the mobile phone and connect it. When the connection fails, the [BT] icon displayed on the head unit flashes; When the connection is successful, the display screen shows "BEON" and then BT icon is constant on, and a "ding-dong" sound will be made, indicating that Bluetooth is connected.
2. If some phones have password prompts when pairing, the initial password defaults to "0000" or "1234".

06 Operation of remote controller

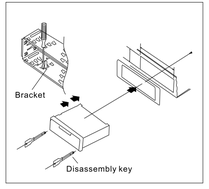
1. Power key
2. Volume +/- key
3. Selection of pre-stored radio stations/previous 10 songs key
4. UP key for selection of music and frequency search for radio stations
5. Pause playback key
6. Clock key
7. Mode switch/on-hook key
8. Mute key
9. Selection of the next songs/next frequency search of radio stations
10. Selection of pre-stored radio stations/next 10 songs key
11. Browse/Repeat/Random play key
12. Band switch/answer key

07 Precautions

1. When the protective tube needs to be replaced, the protective tube of the same specification should be used and the random substitution isn't allowed.
2. The wires must be correctly connected according to the wiring diagram to ensure the normal operation of the machine.

08 Installation drawing

1. The head unit should be placed as per the installation position before installation, and then should be connected to the corresponding loudspeaker wire and power wire for audition.
The head unit can be fixed after the head unit running effect is satisfactory.



○ Head Unit installation

1. Install the bracket on the instrument board of the car, and bend the part of bracket for positioning.
2. Connect the power wire and loudspeaker wire, and fix the stator on the car.
3. Insert the antenna plug, push the head unit into the bracket, and tighten the fixing nut of the stator.

○ Head Unit disassembly

After inserting the two pieces of the disassembly key into the gap on the left and right sides, making the disassembly key hook the head unit and pulling it out gently, the head unit can be disengaged from the bracket, then the connecting cable can be removed and the antenna plug can be unplugged.

10 Technical parameters

FM part
Frequency range----------87.5MHz-107.9MHz
Intermediate frequency----------10.7MHz (MHz)
Noise limited sensitivity (S/N=30dB)----------≤37dBf
SNR----------≥40dB
Frequency stepping----------0.2MHz (MHz)

AM part
Frequency range----------530KHz-1710KHz
Noise limited sensitivity (S/N=30dB)----------≤40dBf
SNR----------≥34dB
Frequency stepping----------10KHz

MP3 playback part
Frequency response----------100Hz-20,000Hz (±5dB)
SNR----------≥45dB
Channel separation----------≥30dB
Voltage harmonic distortion (1kHz)----------≤1%
Balance of playback stereo channel----------≤3dB

General indicators
Power supply voltage----------DC 12V
Loudspeaker impedance----------4-8 Ω
Rated output power----------25W × 4 Channel
Dimension----------178mm (W) × 50mm (H) × 80mm (D)

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