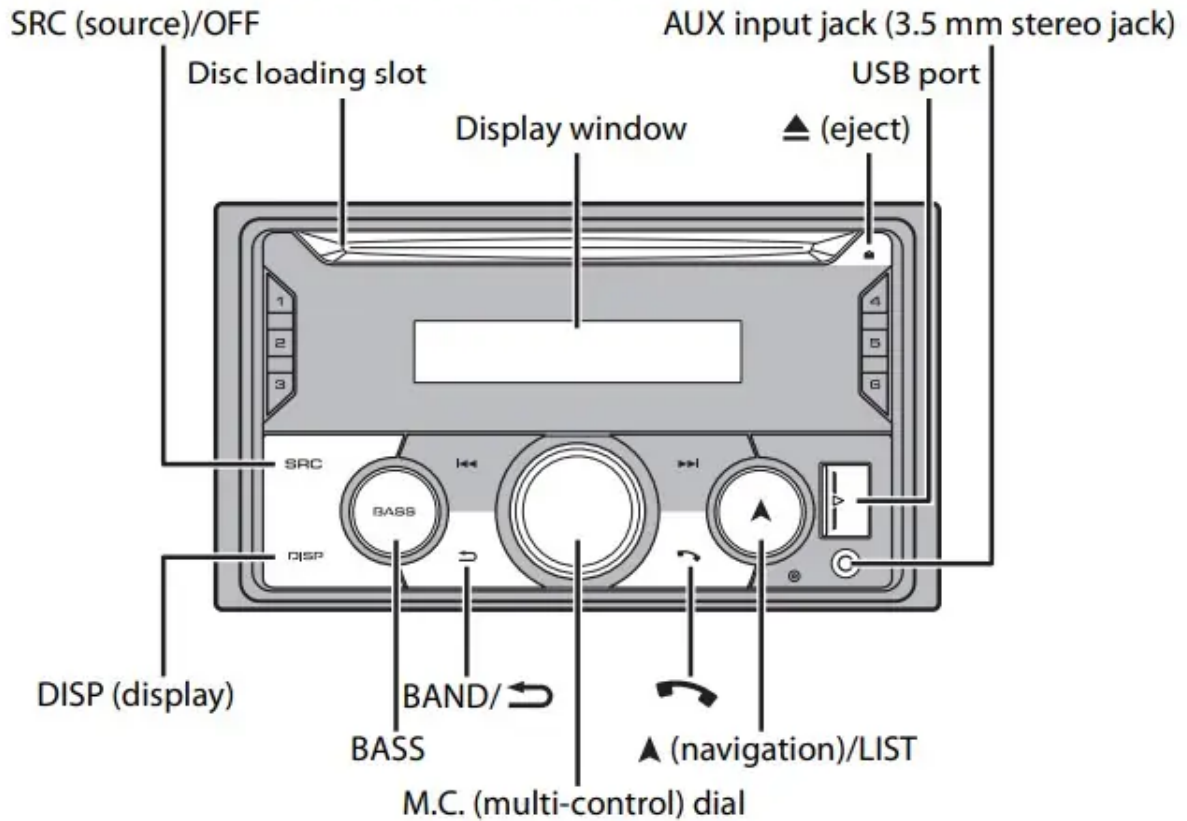


Getting Started

Basic operation

FH-S520BT/S52BT







Optional remote control

The remote control CD-R510 is sold separately.













Frequently used operations



Purpose	Operation
Turn on the power*	Press SRC/OFF to turn on the power. Press and hold SRC/OFF to turn off the power.
Adjust the volume	Turn the M.C. dial.
Select a source	Press SRC/OFF repeatedly.
Change the display information	Press DISP repeatedly.
Return to the previous display/list	Press BAND/  .
Return to the normal display from the menu	Press and hold BAND/  .
Change the display brightness (not available when [SIRIUSXM] is selected as a source)	Press and hold BAND/  .
Answering a call	Press any button.
Ending a call	Press  .
Boost the bass level	Press BASS . • You can select the bass level ([HI] or [LOW]) in [D.BASS] (page 34).

* When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source of

Display indication

Indication	Description
	Appears when a lower tier of the menu or folder exists.
	Appears when a Bluetooth audio player is connected to this unit by A2DP (Advanced Audio Distribution Profile) (page 14).
	Appears when the sound retriever function is set (page 35).
BASS	Appears when the BASS function is activated.
	Appears when random/shuffle play is set (except when BT AUDIO is selected as the source).
	Appears when repeat play is set (except when BT AUDIO is selected as the source).
	Appears when a Bluetooth connection is made (page 14).
APP	Appears when a Pioneer Smart Sync connection is made (page 25).
PM*	Appears when [CLOCK SET] is set to [12H] (page 35).
	Appears when the list menu is displayed.
	Appears when a Bluetooth telephone is connected to this unit. Indicates the antenna level.
	Appears when a second Bluetooth telephone is connected to this unit.
	Appears when a Bluetooth telephone is connected to this unit. Indicates the battery level.
	Appears when a device is being connected to the unit for charging.
	Appears when a radio signal is received. Indicates the antenna level.

* Only for FH-S720BS/S722BS/MVH-S620BS/S622BS

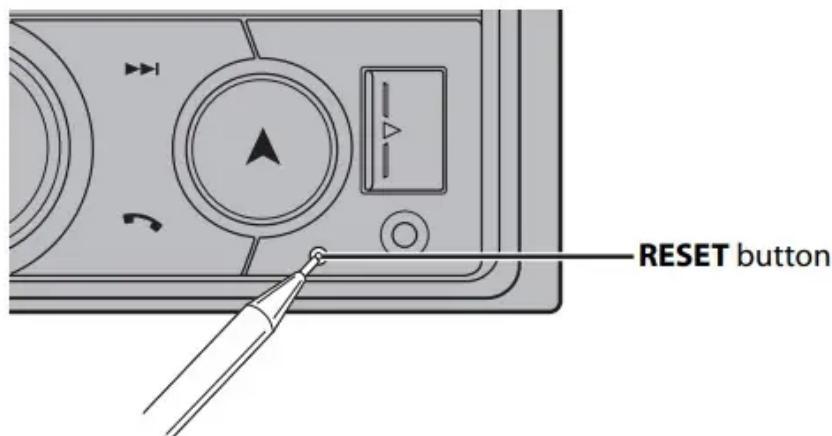
Resetting the microprocessor

The microprocessor must be reset in the following situations:

- Before using this unit for the first time after installation
- If the unit fails to operate properly

- When strange or incorrect messages appear on the display

1. Press the RESET button with a pen tip or other pointed instrument.



Setup menu

When you turn the ignition switch to ON after installation, the setup menu appears in the display

1. Turn the M.C. dial to select the options, then press to confirm.

To proceed to the next menu option, you need to confirm your selection.

Menu Item	Description
LANGUAGE [ENG](English), [ESP](Spanish), [FRA] (Canadian French)	Select the language to display the text information from a compressed audio file.
CLOCK SET	Set the clock. 1 Turn the M.C. dial to adjust the hour, then press to confirm. The indicator moves to the minute setting automatically. 2 Turn the M.C. dial to adjust the minute, then press to confirm.
SPEAKER MODE (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS) [STANDARD], [NETWORK]	Switch between two operation modes: the 2-way network mode (NETWORK) and the standard mode (STANDARD) according to the connections you have established. For details on operation modes, see page 28. After selecting the appropriate mode, turn the M.C. dial to select [YES], then press to confirm. <ul style="list-style-type: none"> • You cannot complete the setup menu without setting the [SPEAKER MODE]. • Once the speaker mode is set, this setting cannot be changed unless the default settings of this product are restored. Restore the default settings to change the speaker mode setting (refer to SYSTEM RESET on page 10). • When [NETWORK] is selected, the beep tone function is not available.

2. [QUIT :YES] appears.

To return to the first item of the setup menu, turn the M.C. dial to select [QUIT :NO], then press to confirm.

3. Press the M.C. dial to confirm the settings.

Canceling the demonstration display (DEMO OFF)

1. Press the M.C. dial to display the main menu.
2. Turn the M.C. dial to select [SYSTEM], then press to confirm.
3. Turn the M.C. dial to select [DEMO OFF], then press to confirm.
4. Turn the M.C. dial to select [YES], then press to confirm.

INITIAL settings

1. Press and hold SRC/OFF until the unit turns off.
2. Press the M.C. dial to display the main menu.
3. Turn the M.C. dial to select [INITIAL], then press to confirm.
4. Turn the M.C. dial to select an option, then press to confirm.




NOTE The options vary depending on the unit


Menu Item	Description
REAR-SP [FUL]	Select when there is a full-range speaker connected to the rear speaker output leads.
[SW]	Select when there is a subwoofer connected directly to the rear speaker output leads without any auxiliary amplifier.
SP-P/O MODE [REAR/SUB.W]	Select when there is a full-range speaker connected to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[SUB.W/SUB.W]	Select when there is a passive subwoofer connected directly to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[REAR/REAR]	Select when there are full-range speakers connected to the rear speaker output leads and RCA output. If there is a full-range speaker connected to the rear speaker output leads, and the RCA output is not used, you may select either [REAR/SUB.W] or [REAR/REAR].
SYSTEM UPDATE [SYSTEM INFO], [S/W UPDATE]	Select [SYSTEM INFO] to confirm the latest system information on the unit. Select [S/W UPDATE] to update the unit to the latest software and initialize the unit settings. For details on the latest software and updating, visit our website.
SXM RESET [YES], [NO]	Select to initialize the SiriusXM settings.
SYSTEM RESET [YES], [NO]	Select [YES] to initialize the unit settings. The unit will be restarted automatically.

Radio



The tuner frequencies on this unit are allocated for use in North America. Use in other areas may result in poor reception.

Receiving preset stations

1. Press SRC/OFF to select [RADIO].
2. Press BAND/  to select the band from [FM1], [FM2], [FM3] or [AM].
3. Press a number button (**1/  to 6/ **).




TIP The  buttons can be also used to select a preset station when [SEEK] is set to [PCH] in the FUNCTION settings (page 30).

Best stations memory (BSM)

The six strongest stations are stored on the number buttons (**1/  to 6/ **).



1. After selecting the band, press the M.C. dial to display the main menu.
2. Turn the M.C. dial to select [FUNCTION], then press to confirm.
3. Turn the M.C. dial to select [BSM], then press to confirm.

To seek a station manually

1. After selecting the band, press  to select a station. Press and hold  then release to seek an available station. Scanning stops when the unit receives a station. To cancel seek tuning, press .

NOTE [SEEK] needs to be set to [MAN] in the FUNCTION settings (page 30).

To store stations manually

1. While receiving the station you want to store, press and hold one of the number buttons (**1/  to 6/ **) until it stops flashing.


CD/USB/iPhone®/AUX

(iPhone source is not available when [USB MTP] is set to [ON] in the SYSTEM settings (page 36).) NOTE CD function is not available for MVH-S620BS/S622BS/S420BT.

Playing back

Disconnect headphones from the device before connecting it to the unit.

CD

- 1 Insert a disc into the disc loading slot with the label side up. To eject a disc, stop playback first then press .

USB devices (including Android™)/iPhone

1. Open the USB port cover.
2. Plug in the USB device/iPhone using an appropriate cable.

NOTE To automatically switch to USB source when a USB device/iPhone is connected to the unit, set [USB AUTO] to [ON] in the SYSTEM settings (page 37).

Before removing the device, stop playback.

AOA connections

A device running Android OS 4.1 or later installed and also supports AOA (Android Open Accessory) 2.0 can be connected to the unit via AOA, using the cable supplied with the device.

NOTE

If you use an AOA connection, [APP CONTROL] needs to be set to [WIRED] (page 36) and [USB MTP] needs to be set to [OFF] (page 36) in the SYSTEM settings.

MTP connection

A device installed with Android OS 4.0 or most of later versions can be connected to the unit via MTP, using the cable supplied with the device. However, depending on the connected device, OS version or the numbers of the files in the device, audio files/songs may not be able to be played back via MTP. Note that MTP connection is not compatible with WAV file formats and FLAC file formats, and cannot be used with the MIXTRAX function.

NOTE If you use an MTP connection, [USB MTP] needs to be set to [ON] in the SYSTEM settings (page 36).

AUX

1. Insert the stereo mini plug into the AUX input jack.
2. Press SRC/OFF to select [AUX IN] as the source.

Operations

You can make adjustments in the FUNCTION settings (page 30) (except for AUX IN/CD/USB source). Note that the following operations do not work for an AUX device. To operate an AUX device, use the device itself.

Purpose	Operation
Select a folder*1	Press 1/▲ or 2/▼ .
Select a track/song (chapter)	Press ⏮ or ⏭ .
Fast forward or reverse*2	Press and hold ⏮ or ⏭ .
Search for a file from a list (CD/USB only)	<ol style="list-style-type: none"> 1 Press and hold ▲ to display the list. 2 Turn the M.C. dial to select the desired file (folder) name or category, then press to confirm. 3 Turn the M.C. dial to select the desired file, then press to confirm. Playback starts.
View a list of the files in the selected folder/category*1	Press the M.C. dial when a folder/category is selected.
Play a song in the selected folder/category*1	Press and hold the M.C. dial when a folder/category is selected.
Repeat play	Press 6/↺ .
Random/shuffle play	Press 5/↻ .
Pause/resume playback	Press 4/PAUSE .
Return to root folder (CD/USB only)*1	Press and hold 1/▲ .
Switch between compressed audio and CD-DA (CD only)	Press BAND/↶ .

*1 Compressed audio files only


*2 When you use the fast forward or reverse function while playing a VBR file, the playback time may be not correct.

About MIXTRAX (USB/iPhone only)

The MIXTRAX function creates a non-stop mix of your music library, accompanied by illumination effects. For details on MIXTRAX settings, see page 39.

Bluetooth

Bluetooth connection

1. Turn on the Bluetooth function of the device. If you make a Bluetooth connection from the device, proceed to step 4.
2. Press  to display the [ADD DEVICE] setting. The unit starts to search for available devices, then displays them in the device list.
 - To cancel searching, press the M.C. dial.
 - If the desired device is not in the list, select [RE-SEARCH].
 - If there is no device available, [NOT FOUND] appears in the display.

- If there is already a connected device, the phone menu appears by pressing



3. Turn the M.C. dial to select a device from the device list, then press to confirm. Press and hold the M.C. dial to switch the displayed device information between the Bluetooth device address and device name. If you make a Bluetooth connection from the unit, proceed to step 5.
4. Select the unit name shown in the device display.
5. Make sure the same 6-digit number appears on this unit and the device, then select [YES] if the 6-digit numbers displayed on this unit and the device are the same.

Bluetooth telephone

First, make a Bluetooth connection with the Bluetooth telephone (page 14). Up to two Bluetooth telephones can be connected simultaneously.

To make a phone call

1. Press to display the phone menu. When two phones are connected, a phone name appears first then a phone menu will display. To switch to another phone, press again.
2. Turn the M.C. dial to select [RECENTS] or [PHONE BOOK], then press to confirm. If you select [PHONE BOOK], proceed to step 4.
3. Turn the M.C. dial to select [MISSED], [DIALED] or [RECEIVED], then press to confirm.
4. Turn the M.C. dial to select a name or phone number, then press to confirm. The phone call starts.

To answer an incoming call

1. Press any button when a call is received.

Basic operations

Purpose	Operation
End a call	Press .
Reject an incoming call	Press and hold when a call is received.
Switch between the current caller and a caller on hold	Press the M.C. dial.
Cancel a caller on hold	Press and hold .
Adjust the volume of the caller's voice (When private mode is on, this function is not available.)	Turn the M.C. dial during the call.
Turn the private mode on or off	Press BAND/ during the call.


To preset phone numbers

1. Select a phone number from a phone book or call history.
2. Press and hold one of the number buttons **(1/∧ to 6/↔)**. The contact is stored in the selected preset number.

To make a call using a preset number, press one of the number buttons **(1/∧ to 6/↔)**, then press the M.C. dial, while the phone menu is displayed.

Voice recognition

This function is only available when an iPhone/Android device equipped with voice recognition is connected to the unit via Bluetooth.

1. Press and hold and then talk into the microphone to input voice commands. To exit the voice recognition mode, press BAND/ .

NOTE For details on the voice recognition features, refer to the manual supplied with your device.

Phone menu

1. Press  to display the phone menu.

Menu Item	Description
RECENTS	Display the missed call history.
[MISSED]	
[DIALED]	Display the dialed call history.
[RECEIVED]	Display the received call history.
PHONE BOOK	Display the contacts in your phone.
PRESET 1-6	Recall the preset phone numbers. You can also recall the preset phone numbers by pressing one of the number buttons (1/▲ to 6/↶).
A.ANSR*	Select [ON] to answer an incoming call automatically.
[ON], [OFF]	
PB INVT	Invert the order of names in the phone book (name view).
DEVICELIST	Display the list of paired Bluetooth devices. "*" appears on the device name when the Bluetooth connection is established. When no device is selected in the device list, this function is not available.
DEL DEVICE	Delete the device information.
[DELETE YES], [DELETE NO]	
ADD DEVICE	Register a new device.
DEV. INFO	Switch the device information on the display between the device name and Bluetooth device address.

* If two phones are connected, this function does not work on incoming calls that are received while one of the phones is being used for a call.

Bluetooth audio

1. Make a Bluetooth connection with the Bluetooth audio player.
2. Press SRC/OFF to select [BT AUDIO] as the source.
3. Press BAND/ ↶ to start playback.

NOTE You must reconnect the Bluetooth connection when the source is switched or the unit is turned off

Basic operations

You can make various adjustments in the FUNCTION settings (page 30)

Purpose	Operation
Fast forward or reverse	Press and hold ⏮ or ⏭ .
Select a track	Press ⏮ or ⏭ .
Repeat play*	Press 6 / ↺ .
Random play*	Press 5 / ↻ .
Pause/resume playback	Press 4 / PAUSE .
Search for a file from a list	<ol style="list-style-type: none"> 1 Press and hold ▲ to display a list. 2 Turn the M.C. dial to select the desired folder name, then press to confirm. 3 Turn the M.C. dial to select the desired file, then press to confirm. Playback starts.

* Depending on the connected device, these operations may not be available.

Pandora®

Listening to Pandora

1. Connect this unit with the mobile device.
 - iPhone via USB (page 12)
 - iPhone/Android device via Bluetooth (page 14)
2. Press SRC/OFF to select [PANDORA].
3. Press and hold 1/ **▲** to display [APP CONTROL].
4. Turn the M.C. dial to select one of the below.
 - Select [WIRED] for the USB connection.
 - Select [BLUETOOTH] for the Bluetooth connection.
5. Press SRC/OFF to select [PANDORA].
6. Launch the Pandora application on the mobile device and start playback.

Basic operations

You can make various adjustments in the FUNCTION settings (page 30)

Purpose	Operation
Skip a track	Press ▶▶ .
Switch between Shuffle and the station	Press and hold ▲ , then turn the M.C. dial to select the Shuffle or the desired station.
Change the sort order	Press and hold ▲ , then select one of the following. [ABC] : Sort the items in the list alphabetically. [DATE] : Sort the items in the list in order of the dates on which the items were created.
Play	When Shuffle or the station is selected, press the M.C. dial.
Delete a station	<ol style="list-style-type: none"> When the station is selected, press and hold the M.C. dial. [DELETE YES] appears. Press the M.C. dial. To cancel, press BAND/↶ in step 1.
Pause/resume playback	Press 4/PAUSE .
Thumbs Up	Press 1/▲ .
Thumbs Down	Press 2/▼ .
Create a new station based on the track currently being played	Press and hold 5/🔍 .
Create a new station based on the artist currently being played	Press and hold 6/👉 .
Store the track information currently being played in your Pandora account.	<ol style="list-style-type: none"> Press and hold 3/MIX. [BOOKMARK] appears. Press the M.C. dial.

Spotify®

Listening to Spotify

- Connect this unit with the mobile device.
 - iPhone via USB (page 12)
 - iPhone/Android device via Bluetooth (page 14)
- Press SRC/OFF to select [SPOTIFY].
- Press and hold **1/▲** to display [APP CONTROL].
- Turn the M.C. dial to select one of the below.
 - Select [WIRED] for the USB connection.
 - Select [BLUETOOTH] for the Bluetooth connection.
- Press SRC/OFF to select [SPOTIFY].
- Launch the **Spotify** application on the mobile device and start playback.

Basic operations

You can make various adjustments in the FUNCTION settings (page 30)

Purpose	Operation
Skip a track	Press ⏮ or ⏭ .
Search for a track from a list	<ol style="list-style-type: none">1 Press and hold ▲ to display the list.2 Turn the M.C. dial to select the desired category, then press to confirm.3 Turn the M.C. dial to select the desired file, then press to confirm. Playback starts.
Pause/resume playback	Press 4/PAUSE .
Thumbs Up (Only for radio)	Press 1/▲ .
Thumbs Down (Only for radio)	Press 2/▼ .
Random play (Only for track/album/artist/playlist)	Press 5/🎲 .
Repeat play (Only for track/album/artist/playlist)	Press 6/🔄 .
Start a radio channel based on the song currently being played.	<ol style="list-style-type: none">1 Press and hold 5/🎲 to start a radio.2 Press the M.C. dial. <ul style="list-style-type: none">• This function may not be available depending on the selected song.

Using Pioneer Smart Sync/APP

Pioneer Smart Sync is the application that intelligently brings your maps, messages, and music together in the vehicle. You can operate the unit from Pioneer Smart Sync installed on an iPhone/Android device. In some cases, you can control aspects of the application, such as source selection, pause, etc., by using the unit. For details on what operations are available on the application, see the application's help section

For iPhone users

This function is compatible with iOS 10.3 or later. You can download Pioneer Smart Sync on iTunes App Store.



For Android device users

For Bluetooth connections, this function is compatible with devices that have Android OS 5.0 or later installed. For USB connections, this function is compatible with a phone that runs Android 5.0

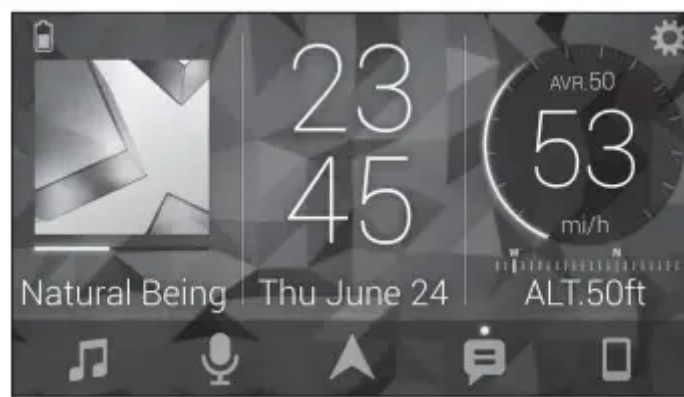
or later up to 7.1.2 and also supports AOA (Android Open Accessory) 2.0. However, the compatibility depends on the smartphone. You can download Pioneer Smart Sync on Google Play



What kind of function does the application have?

Promoting the use of the unit The interface of the unit can be evolved by using your iPhone/Android device.

Image (example):



Examples:

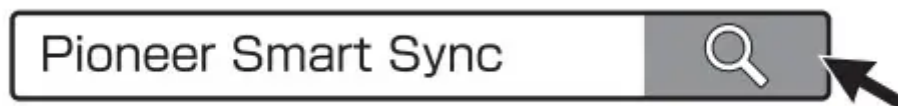
- Selecting a source of the unit
- Listening to the music on your iPhone/Android device
- Controlling the sound field intuitively
- Setting the illumination color (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)
- Controlling your connected Bluetooth device

Extending the functions of the unit by using the application

The following functions, which are unavailable on the unit alone, are available by making a Pioneer Smart Sync connection.

Menu Item (example)	Description
Using a navigation application	You can specify and start the navigation application installed on your device.
Message reading	You can read messages received from the apps installed on your device.
31 Band EQ setting	You can select an equalizer band from the 31-band graphic equalizer (13-band for not using the Pioneer Smart Sync connection).
Super "Todoroki" Sound	You can boost the bass level more dynamically than when not using the Pioneer Smart Sync connection.
Easy Sound Fit	You can perform the time alignment setting easily by selecting your vehicle type.
Theme setting (Only for FH-S720BS/ S722BS/MVH-S620BS/S622BS)	You can set the wall paper and the theme color (display/keys/characters) at once.

TIP It is recommended to enter the search term "Pioneer Smart Sync" in the search field to search for the application.



Making a connection with Pioneer Smart Sync

1. Press the M.C. dial to display the main menu.
2. Turn the M.C. dial to select [SYSTEM], then press to confirm.
3. Turn the M.C. dial to select [APP CONTROL], then press to confirm.
4. Turn the M.C. dial to select one of the below.
 - Select [WIRED] for the USB connection.
 - Select [BLUETOOTH] for the Bluetooth connection.
5. Turn the M.C. dial to select [AUTO APP CONN], then press to confirm.
6. Turn the M.C. dial to select [ON], then press to confirm.
7. Connect this unit with the mobile device.
 - iPhone/Android device via USB (page 12)

- iPhone/Android device via Bluetooth (page 14) Pioneer Smart Sync on the device starts automatically

Listening to music on your device

1. Press SRC/OFF to select [APP].

Audio Adjustments

Operation modes

This unit features two operation modes: network mode and standard mode. You can switch between modes as desired (page 9).

Network mode

You can create a 2-way + SW multi-amp and multi-speaker system with high range speaker, middle range speaker and subwoofer for reproduction of high, middle and low frequencies (bands).

Standard mode

You can create a 4-speaker system with front and rear speakers or front speakers and subwoofers, or a 6-speaker system with front and rear speakers and subwoofers.

Adjusting the cut-off frequency value and the slope value

You can adjust the cut-off frequency value and the slope value of each speaker.

The following speakers can be adjusted.

Network mode:

[HIGH] (high-range speaker HPF), [MID HPF] (middle-range speaker HPF), [MID LPF] (middle-range speaker LPF), [SUBWOOFER]

Standard mode:

[FRONT], [REAR], [SUBWOOFER]

NOTE [SUBWOOFER] can only be selected when [ON] is selected in [SUBWOOFER] (page 33).

1. Press the M.C. dial to display the main menu.
2. Turn the M.C. dial to select [AUDIO], then press to confirm.
3. Turn the M.C. dial to select [CROSSOVER], then press to confirm.
4. Turn the M.C. dial to select the speaker unit (filter) to be adjusted, then press to confirm.
5. Turn the M.C. dial to select [HPF] or [LPF] according to the speaker unit (filter), then press to confirm.
6. Turn the M.C. dial to select an appropriate cut-off frequency for the speaker unit (filter) selected in step 4, then press to confirm.

Network mode: [1.25K] to [12.5K] (if you choose [HIGH] or [MID LPF]) [25] to [250] (if you choose [MID HPF] or [SUBWOOFER])

Standard mode: [25HZ] to [250HZ]

7. Turn the M.C. dial to select an appropriate slope for the speaker unit (filter) selected in step 4.

Network mode: [6] to [24] (if you choose [HIGH], [MID HPF] or [MID LPF]) [12] to [36] (if you choose [SUBWOOFER])

Standard mode: [6] to [24] (if you choose [FRONT] or [REAR]) [6] to [36] (if you choose [SUBWOOFER])

Settings

1. Press the M.C. dial to display the main menu.
2. Turn the M.C. dial to select one of the categories below, then press to confirm.
 - FUNCTION settings (page 30)
 - AUDIO settings (page 32)
 - SYSTEM settings (page 35)
 - ILLUMINATION settings (page 38)
 - MIXTRAX settings (page 39)
3. Turn the M.C. dial to select the options, then press to confirm.

FUNCTION settings

The menu items vary according to the source.

Menu Item	Description
BSM <input type="button" value="RADIO"/>	Store the six strongest stations on the number buttons (1/▲ to 6/↻) automatically.
LOCAL <input type="button" value="RADIO"/> FM: [OFF], [LV1], [LV2], [LV3], [LV4] AM: [OFF], [LV1], [LV2]	Restrict the tuning station according to the signal strength.
SEEK <input type="button" value="RADIO"/> [MAN], [PCH]	Assign ◀◀ or ▶▶ buttons to seek the stations one by one (manual tuning) or select a station from the preset channels.
SAVE <input type="button" value="SPOTIFY"/>	Store the information about the song currently being played to your music list on Spotify.
UNSAVE <input type="button" value="SPOTIFY"/>	Remove the song information stored in [SAVE].
SEL DEVICE <input type="button" value="iPhone"/> <input type="button" value="PANDORA"/> <input type="button" value="BT AUDIO"/> <input type="button" value="SPOTIFY"/>	Connect a Bluetooth device in the list.
BOOKMARK <input type="button" value="PANDORA"/>	Store the track information currently being played in your Pandora account.
NEW STATION <input type="button" value="PANDORA"/> [FROM TRACK], [FROM ARTIST]	Create a new station based on the track or artist currently being played.
PLAY <input type="button" value="BT AUDIO"/>	Start playback.
STOP <input type="button" value="BT AUDIO"/>	Stop playback.

SYSTEM settings

You can also access to these menus when the unit is turned off.

Menu Item	Description
LANGUAGE	
[ENG](English), [ESP](Spanish), [FRA] (Canadian French)	Select the language to display the text information from a compressed audio file.
CLOCK SET	
[12H], [24H]	Set the clock (page 9). • This setting is not available when a Pioneer Smart Sync connection is made.
SCROLL SET	
[ONCE], [LOOP], [OFF]	Select the way to scroll the text in the display window.
BEEP TONE (Only for standard mode)	
[ON], [OFF]	A beep can be heard when any button is pushed. Select [OFF] to disable this function.
INFO DISPLAY (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)	
[SPEANA/CLOCK], [LIVE FX/CLOCK], [CLOCK], [SPEANA], [LEVEL METER], [OFF]	Display the item on the sub information display.
INFO DISPLAY (Only for FH-S520BT/S52BT/MVH-S420BT)	
[SOURCE/SPEANA], [CLOCK/SPEANA], [SRC/LIVE FX], [CLOCK/LIVE FX], [SOURCE], [SPEANA], [OFF]	Display the item on the sub information display. • When [SOURCE/SPEANA] or [CLOCK/SPEANA] is selected, display the antenna instead of the speana on the radio source.
AUX	
[ON], [OFF]	Set to [ON] when using an auxiliary device connected to the unit.
BT AUDIO	
[ON], [OFF]	Set the Bluetooth signal on/off.
PANDORA	
[ON], [OFF]	Set to [ON] when using the Pandora function.
SPOTIFY	
[ON], [OFF]	Set to [ON] when using the Spotify function.
BT MEM CLEAR	
[YES], [NO]	Clear the Bluetooth device data (device list, PIN code, call history, phone book, preset phone numbers) stored in the unit. [CLEARED] appears when data is successfully deleted.
APP CONTROL	
[WIRED], [BLUETOOTH]	Select the appropriate connection method according to your device. See page 37 for details on the connections for each device.
USB MTP	
[ON], [OFF]	Set to [ON] when using the MTP connection. The following sources are not available when the setting is set to [ON]. • APP, PANDORA, SPOTIFY, iPhone, and USB

Menu Item	Description
AUTO APP CONN [ON], [OFF]	Select [ON] to automatically launch Pioneer Smart Sync when the iPhone/Android device is connected to the unit.
USB AUTO [ON], [OFF]	Select [ON] to automatically switch to USB source when a USB device/iPhone is connected to the unit. Select [OFF] when a USB device/iPhone is being connected to the unit just for charging.

Information on the connections for each device

The available sources differ depending on the setting value. Please set [APP CONTROL] according to the table for the source you want to use. For details on Pioneer Smart Sync connection, see page 25. **When Pioneer Smart Sync connection is NOT performed**

Setting Value	Device	Available source(s)
[WIRED]	iPhone	iPhone, PANDORA, SPOTIFY
	Android	USB (AOA)
[BLUETOOTH]	iPhone	iPhone, PANDORA, SPOTIFY
	Android	PANDORA, SPOTIFY

When Pioneer Smart Sync connection is performed

Setting Value	Device	Available source(s)
[WIRED]	iPhone	APP, PANDORA, SPOTIFY
	Android	APP
[BLUETOOTH]	iPhone	APP, PANDORA, SPOTIFY
	Android	APP, PANDORA, SPOTIFY

ILLUMINATION settings

Menu Item	Description
COLOR (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)	
[KEY COLOR], [DISP COLOR], [BOTH COLOR]	Select color for the keys/display of the unit from 12 preset colors, [SCAN] or [CUSTOM]*. <ul style="list-style-type: none"> • [SCAN]: Cycle through a variety of colors automatically. • [CUSTOM]*: <ol style="list-style-type: none"> 1 Press and hold the M.C. dial until the color setting display appears. 2 Set the primary color (R (red)/G (green)/B (blue)) and brightness level ([0] to [60]). You cannot select a level below 10 for all three of R (red), G (green), B (blue) at the same time. You can also customize the preset colors. Select one of the preset colors, then press and hold the M.C. dial until the color setting display appears. <p>* The CUSTOM setting is only available for [KEY COLOR] and [DISP COLOR].</p>
DIM SETTING	
[SYNC ILLUMI]*, [SYNC CLOCK], [MANUAL]	Select the way to change the display brightness.
* Only for FH-S720BS/S722BS/MVH-S620BS/S622BS	
BRIGHTNESS (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)	
[KEY], [DISP]	Select the brightness for the keys/display of the unit from [1] to [10]. The available setting ranges differ depending on [DIM SETTING].
BRIGHTNESS (Only for FH-S520BT/S52BT/MVH-S420BT)	
[1] to [10]	Change the display brightness. The available setting ranges differ depending on [DIM SETTING].
PHONE COLOR (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)	
	Select the key color when a call is received.
[FLASHING]	Applies the color set by [KEY COLOR]. <ul style="list-style-type: none"> • The illumination effect differs depending on the selection of [ON] or [OFF] in [ILLUMI FX].
[FLASH FX1] to [FLASH FX6]	Cycle through a variety of colors automatically.
[OFF]	No change in key color made.
ILLUMI FX (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)	
[ON], [OFF]	The illumination effect can be seen when: <ul style="list-style-type: none"> – there is an incoming call when [FLASHING] is selected in [PHONE COLOR] – you are on a phone call – the message received on the device is being read when a Pioneer Smart Sync connection is made – a CD is inserted/ejected (only for FH-S720BS/S722BS) <p>The illumination effect will activate when the ACC power is turned on/off regardless of this setting.</p>

MIXTRAX settings

Menu Item	Description
SHORT PLAYBCK	
[1.0 MIN], [1.5 MIN], [2.0 MIN], [2.5 MIN], [3.0 MIN], [OFF]	Select the length of the playback time.
FLASH AREA (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)	
[KEY/DISPLAY], [KEY], [OFF]	Select the area for the illumination effect. When [OFF] is selected, the color set under the ILLUMINATION settings (page 38) is used as the display color.
FLASH PATTERN (Only for FH-S720BS/S722BS/MVH-S620BS/S622BS)	
[SOUND LEVEL 1] to [SOUND LEVEL 6]	Change the illumination effect according to the sound and bass level. The flash pattern changes according to the sound level.
[LOW PASS 1] to [LOW PASS 6]	The flash pattern changes according to the bass level.
[RANDOM1]	The flash pattern changes randomly according to the sound level mode and low pass mode.
[RANDOM2]	The flash pattern changes randomly according to the sound level mode.
[RANDOM3]	The flash pattern changes randomly according to the low pass mode.
MIX PATTERN (Only for FH-S520BT/S52BT/MVH-S420BT)	
[SOUND LEVEL]	Change the MIXTRAX special effects according to the audio level. The mix pattern changes according to the sound level.
[LOW PASS]	The mix pattern changes according to the bass level.
[RANDOM]	The mix pattern changes randomly according to the sound level mode and low pass mode.
DISPLAY FX	
[ON], [OFF]	Set the MIXTRAX special effects on/off.
CUT IN FX	
[ON], [OFF]	Turn the MIXTRAX sound effects on/off while manually changing the tracks.

Additional Information

Troubleshooting

- The display automatically returns to the normal display.
 - → No operations have been made for about 30 seconds.
 - Perform an operation.
- The repeat play range changes unexpectedly.
 - → Depending on the repeat play range, the selected range may change when another folder or track is being selected or during fast forwarding/reversing.
 - Select the repeat play range again.
- A subfolder is not played back.
 - → Subfolders cannot be played when [FLD] (folder repeat) is selected.
 - Select another repeat play range.
- The sound is intermittent.
 - → You are using a device, such as a cellular phone, that may cause audible interference.
 - Move electrical devices that may be causing the interference away from the unit.
- The sound from the Bluetooth audio source is not played back.
 - → There is a call in progress on a Bluetooth-connected cellular phone.
 - The sound will be played back when the call is terminated.
 - → A Bluetooth-connected cellular phone is currently being operated.
 - Stop using the cellular phone.
 - → The connection between the unit and the cellular phone is not established correctly after a call made by a Bluetooth-connected cellular phone.
 - Make a Bluetooth connection between the unit and the cellular phone again.

Error messages

Common

- AMP ERROR
 - → This unit fails to operate or the speaker connection is incorrect.

- → The protective circuit is activated.
 - Check the speaker connection.
 - Turn the ignition switch OFF and back to ON again. If the message remains, contact your dealer or an authorized Pioneer Service Station for assistance.
- NO XXXX (NO TITLE, for example)
 - → There is no embedded text information.
 - Switch the display or play another track/file.


CD player


- ERROR-07, 11, 12, 17, 30
 - → The disc is dirty.
- Clean the disc.
 - → The disc is scratched.
 - Replace the disc.
- ERROR-07, 10, 11, 12, 15, 17, 30, A0
 - → There is an electrical or mechanical error.
 - Turn the ignition switch OFF and back to ON, then back to the CD player.
- ERROR-15
 - → The inserted disc is blank.
 - Replace the disc.
- ERROR-23
 - → Unsupported CD form
- FORMAT READ
 - → Sometimes there is a delay between the start of playback and when you start to hear any sound.
 - Wait until the message disappears and you hear sound.
- NO AUDIO
 - → The inserted disc does not contain any playable files.
 - Replace the disc.

- SKIPPED
 - → The inserted disc contains DRM protected files.
 - The protected files are skipped.
- PROTECT
 - → All the files on the inserted disc are embedded with DRM.
 - Replace the disc.

USB device/iPhone

- FORMAT READ
 - → Sometimes there is a delay between the start of playback and when you start to hear any sound.
 - Wait until the message disappears and you hear sound.
- NO AUDIO
 - → There are no songs.
 - Transfer the audio files to the USB device and connect.
 - → The connected USB device has security enabled.
 - Follow the USB device instructions to disable the security.
- SKIPPED
 - → The connected USB device contains DRM protected files.
 - The protected files are skipped. PROTECT
 - → All the files on the connected USB device are embedded with DRM.
 - Replace the USB device.
- N/A USB
 - → The connected USB device is not supported by this unit.
 - Disconnect your device and replace it with a compatible USB device.
- HUB ERROR
 - → The USB device connected via a USB hub is not supported by this unit.
 - Connect the USB device directly to this unit using a USB cable.
- CHECK USB
 - → The USB connector or USB cable has short-circuited.
 - Check that the USB connector or USB cable is not caught in something or damaged.

- → The connected USB device consumes more than maximum allowable current.
 - Disconnect the USB device and do not use it. Turn the ignition switch OFF and back to ACC or ON. Connect only compliant USB devices.
- ERROR-19
 - → Communication failed.
 - Perform one of the following operations, then return to the USB source.
 - Disconnect the USB device.
- Change to a different source.
 - → iPhone failure.
 - Disconnect the cable from the iPhone. Once the iPhone's main menu is displayed, reconnect the iPhone and reset it.
- ERROR-23
 - → USB device was not formatted properly.
 - Format the USB device with FAT12, FAT16 or FAT32.
- ERROR-16
 - → The iPhone firmware version is old.
- Update the iPhone version.
 - → iPhone failure.
 - Disconnect the cable from the iPhone. Once the iPhone's main menu is displayed, reconnect the iPhone and reset it.
- STOP
 - → There are no songs in the current list.
 - Select a list that contains songs.
- NO BT DEVICE GO TO BT MENU TO REGISTER
 - → No Bluetooth device found.
 - Connect the unit and iPhone via Bluetooth (page 14).
- CONN. FAILED PRESS BAND KEY TO RETRY
 - → Bluetooth connection with iPhone failed.
 - Press BAND/  to make a connection again.


- DISCONNECTED PRESS BAND KEY TO RETRY
 - → Bluetooth connection lost.
 - Press BAND/  to make a connection again.



Bluetooth device

- ERROR-10
 - → The power failed for the Bluetooth module of the unit.
 - Turn the ignition switch OFF and back to ACC or ON.

Pandora

- ERROR-19
 - → Communication failed.
 - Disconnect the cable from the device. Once the device's main menu is displayed, reconnect the device and reset it.
- NOT FOUND
 - → The Pandora application has not started running yet.
 - Start up the Pandora application.
- RATING ERROR
 - → The thumb rating operation was disabled.
 - Run the same command for another track.
- CAN'T SKIP
 - → The skip operation was disabled.
 - Run the same command for another track.
- THUMB ERROR
 - → Unable to save thumb rating.
 - Try again later.
- BOOKMARK ERR
 - → Unable to save BookMark.
 - Try again later.
- INOPERABLE
 - → The operation to save BookMark or add station was disabled.
 - Run the same command for another track.




- UNABLE TO ADD
 - → Unable to add station.
 - Try again later.
- SKIP LIMIT
 - → Due to music licensing restrictions, Pandora limits the total number of skips per hour.
 - Wait until Pandora allows you to skip again.
- UPDATE APP
 - → This version of the Pandora application is not supported.
 - Connect a device that has a compatible version of the Pandora application installed.
- LOG IN ERROR
 - → Your Pandora account is not logged in.
 - Disconnect the cable from the device, and log in to your Pandora account. Then reconnect the device.
- ERROR
 - → Device error message displayed in the Pandora application.
 - Check the connected device.
 - → Pandora system is undergoing maintenance.
 - Try again later.
- NO STATIONS
 - → No station found.
 - Create a station in the Pandora application on your connected device.
- NO BT DEVICE GO TO BT MENU TO REGISTER
 - → No Bluetooth device found.
 - Connect the unit and the device via Bluetooth (page 14).
- CONN. FAILED PRESS BAND KEY TO RETRY
 - → Bluetooth connection failed.
 - Press BAND/  to make a connection again.

- CHECK APP PRESS BAND KEY TO RETRY
 - → Connection to the Pandora application failed.
 - Press BAND/  to make a connection again.
- DISCONNECTED PRESS BAND KEY TO RETRY
 - → Bluetooth connection lost.
 - Press BAND/  to make a connection again.
- STATION LIMIT
 - → A new station cannot be added.
 - Delete an old station to open a spot for a new one.
- CANNOT DELETE
 - → The station could not be deleted.
 - Run the same command for another station.
- BAD NETWORK
 - → The connected device is out of area.
 - Connect the device to a network.
- UNAVAILABLE
 - → The connected device is out of area.
 - Connect the device to a network.
 - → The operation was disabled.
 - Run the same command for another station.
- CHECK APP
 - → An unknown error (including communication error) has occurred.
 - Follow the instructions that appear on the screen.

APP

- CONNECT APP
 - → Pioneer Smart Sync connection is not made.
 - Make a connection with Pioneer Smart Sync (page 25).

Spotify

- NOT FOUND
 - → The Spotify application has not started running yet.
 - Start up the Spotify application.
- NO BT DEVICE GO TO BT MENU TO REGISTER
 - → No Bluetooth device found.
 - Connect the unit and the device via Bluetooth (page 14).
- CONN. FAILED PRESS BAND KEY TO RETRY
 - → Bluetooth connection failed.
 - Press BAND/  to make a connection again.
- CHECK APP PRESS BAND KEY TO RETRY
 - → Connection to the Spotify application failed.
 - Press BAND/  to make a connection again.
- DISCONNECTED PRESS BAND KEY TO RETRY
 - → Bluetooth connection lost.
 - Press BAND/  to make a connection again.
- CHECK APP
 - → An unknown error (including communication error) has occurred.
 - Follow the instructions that appear on the screen.

SiriusXM Satellite Radio

- CHECK ANTENNA
 - → The antenna cable may be either disconnected or damaged.
 - Check the antenna connection or replace if damaged.
- CHECK TUNER
 - → The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged.
 - Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.

- NO SIGNAL
 - → The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.
 - Move your vehicle outdoors with a clear view of the southern sky.
 - Make sure that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside the vehicle
 - Move the SiriusXM antenna away from any obstructions.
- SUBSCRIPTION UPDATED
 - → This unit has detected a change in your SiriusXM subscription status.
 - Press any key to clear the message.
- CH UNAVAIL
 - → The channel that you have requested is not available.
 - Check the SiriusXM channel lineup.
- CHAN UNSUB
 - → The channel that you have requested is not included in your SiriusXM subscription package.
 - Check the content of your SiriusXM subscription package.
- CH LOCKED
 - → The channel has been locked by the Parental Control function.
 - Set [LOCKED CH] to [OFF] or [CLEAR ALL] to [YES] in the FUNCTION settings (page 32).
- NO TUNEMIX CH
 - → There is only one music channel in the band.
 - Select a band with two or more music channels.
 - Add more music channels to the current band.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.