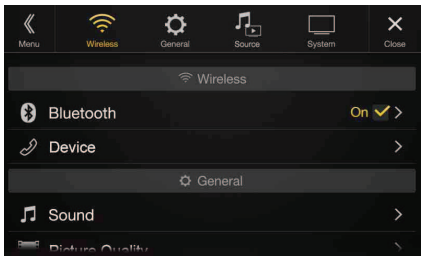
Wireless (Bluetooth) Setup

[**Wireless**] is selected on the Setup main screen in step 3. See "Setup Operation" (page 29).

■ Wireless Setup Menu screen



<Setting items>

Bluetooth	
	Bluetooth Information*
	Set Bluetooth Device*
	Hands-free Device Priority*
	iPhone Auto Pairing*
Device	
	Passcode Change
	Default Phone Book Format
	Phone Speaker
	Microphone Select (X108U/INE-W967HD only)

* *This setting is only available when "Bluetooth" is set to "On" (☑).*

The following steps 1 to 3 are common to each "Setting item" of Wireless Setup. See each section for details.

1 Select the desired item.

2 To switch the setting, touch [〈], [〉], [+], [−], or mark the checkboxes "Off"(☐) or "On"(☑).

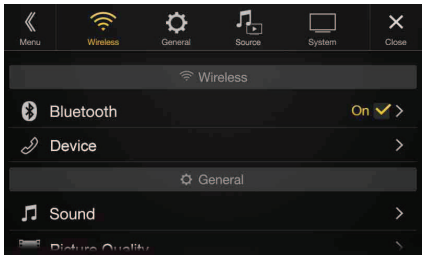
- *If "〉" appears, there is a further hierarchy. Touch the desired item.*

3 Touch [✕] to return to the main source screen.

- *To return to the previous List screen, touch [《] or [〈] in the previous page. For details, see "About Basic Operation for List Screen" (page 18).*

Bluetooth Setup

[**Bluetooth**] is selected on the Wireless Setup Menu screen in step 1. See "Wireless (Bluetooth) Setup" (page 30).
You can register and set up Bluetooth compatible devices.



Setting item:
Bluetooth
Setting contents:
Off / On (Initial setting)

Off:	Bluetooth function is not used.
On*:	Select when you would like to pair your Bluetooth compatible phone with this unit.

* *Turn this setting "On" to automatically connect a registered Bluetooth device whenever this unit is turned ON. See "Registering the Bluetooth Device" if no device is registered.*

Displaying Bluetooth Information

Make sure the "Bluetooth" setting is "On" (☑). See "Bluetooth Setup" (page 30).
You can display the Bluetooth device name and device address of this unit.

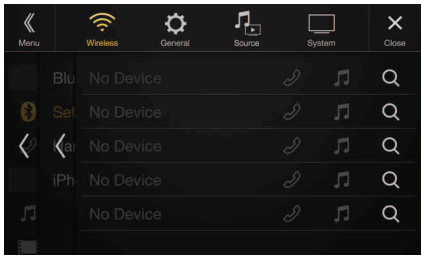
Setting item:
Bluetooth Information

Registering the Bluetooth Device

The Bluetooth device is used when a connectable Bluetooth compatible device is searched and connected from this unit, or a new Bluetooth compatible device is registered.

Setting item:
Set Bluetooth Device

1 Touch [🔍] (Search) of "No Device."



2 **Touch [♫] (Audio), [✆] (Hands-free) or [✆/♫] (Both) of the device you want to connect from the list.**

Audio: Sets for use as an Audio device.
Hands-free: Sets for use as a Hands Free Device.
Both: Sets for use as both an Audio device and Hands Free Device.

- *You can register up to 5 Bluetooth compatible mobile phones.*
- *You can connect three Bluetooth Devices; two exclusively for Hands-Free Phone and one exclusively for Bluetooth Audio.*
- *When you register a Hands-Free Phone for the first time, Priority1 is set automatically. When you connect two Hands-Free Phones, select "HFT" or "Both." You can then set the priority on the Priority setting screen. For details, see "Hands-free Device Priority Setting" (page @@).*

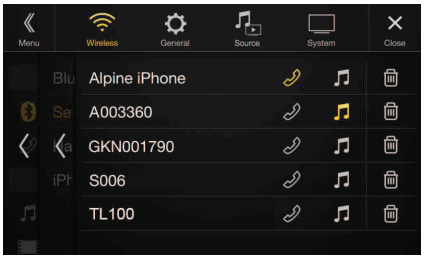
3 **When the device registration is complete, a message appears and the device returns to normal mode.**

- *The Bluetooth registration process differs depending on the device version and SSP (Simple Secure Pairing). If a 4 or 6 character Passcode appears on this device, enter the Passcode using the Bluetooth compatible device.*
  If a 6 character Passkey appears on this device, make sure the same passkey is displayed on the Bluetooth compatible device and touch "Yes."
- *If all 5 devices have been registered, you cannot register a 6th device. To register another device, you need to delete one of the other 5 devices first.*

Setting the Bluetooth Device

Select one of 5 paired Bluetooth compatible devices that you previously registered.

Touch [♫] (Audio) or [✆] (Hands free) of the device you want to connect from the Paired Device list.



Deleting a Bluetooth Device from the list

You can delete the information of a previously connected Bluetooth compatible device.

1 **Touch [🗑] (Delete) of the Bluetooth compatible device to delete from the Paired Device list.**

2 **Touch [OK].**

- *Touching **[Cancel]** will cancel the setting.*

Hands-free Device Priority Setting

Make sure the "Bluetooth" setting is "On" (☑). See "Bluetooth Setup" (page @@).
When you connect two Hands-Free Phones, set the priority of the operation and the setting of incoming-outgoing calls.

Setting item:
Hands-free Device Priority
Setting contents:
Priority1 / Priority2

Touch the checkbox of Priority1/Priority2 of the Device names that are connected to the unit to set them.

- *When connected to two hands-free phones, operating restrictions apply to the hands-free phone registered to Priority2. For details, see "Hands-free Phone Control" (page @@).*

iPhone Auto Pairing Setting

Make sure the "Bluetooth" setting is "On" (☑). See "Bluetooth Setup" (page 30).
When an iPhone is connected via USB and it is not on the Registered Device list, it will be paired automatically.

Setting item:
iPhone Auto Pairing
Setting contents:
On / Off (Initial setting)

On: Performs iPhone Auto Pairing setting.
Off: Does not perform iPhone Auto Pairing setting.

- *This setting supports iPhones with iOS Ver.5.5 or later.*
- *When more than 5 Bluetooth devices are registered, Auto Pairing does not start.*

Device Setup

[Device] is selected on the Wireless Setup Menu screen in step 1. See "Wireless (Bluetooth) Setup" (page 30).
You can make various settings for a Bluetooth compatible device.

Setting the Passcode

You can set the code for connecting with a Bluetooth compatible device.

Setting item:
Passcode Change

Enter a 4-digit passcode, and then touch [OK].

- *The initial number is 0000.*
- *For details on how to input the numeric keypad, see "Numeric Keypad Input Operations" (page 75).*

Changing the Character Code of the Phone Book

You can select the character code that is used when transferring the phone book or history from a mobile phone. If unreadable characters appear in the transferred data, select the correct character code.

Setting item:
Default Phone Book Format
Setting contents:
Latin-1 / Latin-9 (Initial setting) / Russian / Chinese / Thai / Arabic / UTF-8 / UTF-16LE / UTF-16BE

Latin-1:	ISO 8859-1
Latin-9:	ISO 8859-15
Russian:	ISO 8859-5
Chinese:	GB18030
Thai:	CP874
Arabic:	CP1256
UTF-8	
UTF-16LE	
UTF-16BE	

Selecting the Output Speaker

You can select which speaker in the car will output the audio from the phone.

Setting item:
Phone Speaker
Setting contents:
All (Initial setting) / Front Left / Front Right / Front Left + Right

All:	The sound is output from all speakers in car.
Front Left:	The sound is only output from the front left speaker.
Front Right:	The sound is only output from the front right speaker.
Front Left + Right:	The sound is output from the front left and front right speakers.

- *The setting cannot be adjusted during a phone call. Adjust the setting before placing a call.*
- *This option is not available when "External Audio Processor" (page 49) is set to On.*

Setting the Microphone Select (X801D-U/INE-W997D only)

You can select the built-in microphone or the supplied microphone as a Hands-Free Microphone.

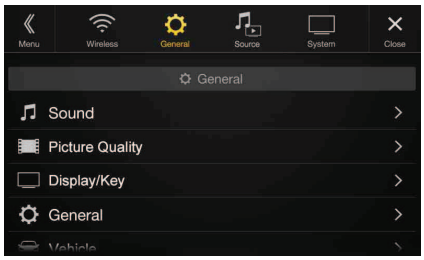
Setting item:
Microphone Select
Setting contents:
Built-in (Initial setting) / Add-on

Built-in:	Use the built-in microphone.
Add-on:	Use the supplied microphone.

General Setup

[**General**] is selected on the setup main screen in step 3. See "Setup Operation" (page 29).

■ General Setup Menu screen



<Setting item>

Sound	
	Balance / Fader *1
	Rear Speaker*2
	Subwoofer*2
	Subwoofer Level*1, 2, 3, 5
	Subwoofer Phase*2, 3
	MX HD*1, 4, 5
	EQ Presets*4, 5
	Dual HD EQ*4, 5
	X-Over*5
	Time Correction (TCR)
	Defeat
	Source Volume Setup
	Caller Level
	Microphone Level
	Ring Tone Level
	Key Sound Feedback
	Mute While Backing Up
	Default Sound Settings
Picture Quality.	
	Video*6
	Camera*7
	Navigation
Display/Key	
	Screen/Lighting
	Screen Color
	Illumination Color (X108U/INE-W967HD only)
	Text Scroll
	Artwork Position
General	
	Language
	Format
	About
	Demo Mode
Vehicle	
	Installation Status

**1 You can make this setting in the Sound Setup screen of the Shortcut Setup. For details, see "Sound Setup Function" (page 19).*

*2 You can also make the setting in the Bal./Fad. screen. For details on how to adjust, see "Setting the Balance/Fader/Rear Speaker/Subwoofer" (page 33).
*3 This setting is only available when "Subwoofer" is set to "On" (☑).
*4 When the Defeat setting is "On," you cannot perform the set up.
*5 When the Sound Setup of the Shortcut Setup is selected to "BASS ENGINE SQ," you cannot perform the set up.
*6 "Video" can be selected while a video is playing.
*7 The camera names are not displayed when Camera Select (page 46) is set to "Off."

The following steps 1 to 3 are common to each "Setting item" of General Setup. See each section for details.

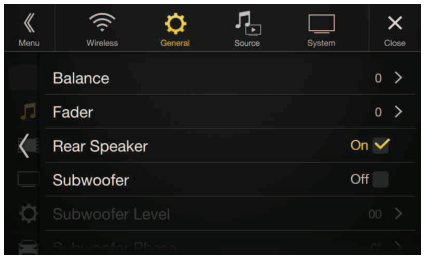
1 Select the desired item.

2 To switch the setting, touch [〈], [〉], [+], [−], or mark the checkboxes "Off" (☐) or "On" (☑).
- *If "〉" appears, there is a further hierarchy. Touch the desired item.*

3 Touch [✕] to return to the main source screen.
- *To return to the previous List screen, touch [《] or [〈] in the previous page. For details, see "About Basic Operation for List Screen" (page 18).*

Sound Setup

[**Sound**] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 32).
You can set up items related to the sound quality.



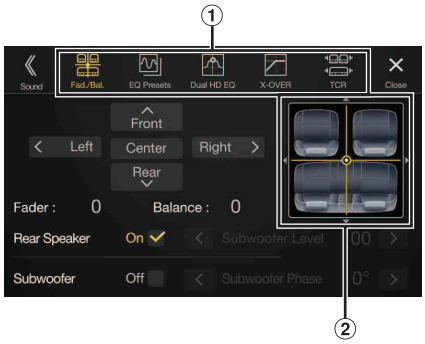
Setting the Balance/Fader/Rear Speaker/Subwoofer

Set Balance/Fader/Rear Speaker/Subwoofer/Subwoofer Level/Subwoofer Phase in the Bal./Fad. screen.

Setting item:
*Balance*1 / Fader*1 / Rear Speaker / Subwoofer*2 / Subwoofer Level*1, 2 / Subwoofer Phase*1*

*1 When selecting either of the above setting items, the Bal./Fad. screen is displayed.
*2 When the Sound Setup of the Shortcut Setup is selected to "BASS ENGINE SQ," you cannot perform the set up.

■ Fad./Bal. screen



① Enables you to change to each setting screen.
② Balance/Fader Image area

Setting the Balance/Fader

Touch the desired point within the image area. Or touch [∧] [∨] [〈] [〉].

Balance:
L15 to R15
Fader:
F15 to R15

- *To reset to the initial setting (Balance: 0, Fader: 0), touch [Center].*

Rear Speaker Setting

You can set the rear speaker output to "Off."

Setting item:
Rear Speaker
Setting contents:
On (Initial setting) / Off

Turning Subwoofer ON/OFF

If an optional subwoofer is connected to the unit, make the following setting.

Setting item:
Subwoofer
Setting contents:
On / Off (Initial setting)

Adjusting the Subwoofer Level

You can set the Subwoofer level when a Subwoofer is connected.

Setting item:
Subwoofer Level
Setting contents:
0 to 15 (Initial setting: 0)

- *This setting is only available when "Subwoofer" is set to "On" (☑).*

Setting the Subwoofer Phase

The subwoofer output phase is toggled Subwoofer Normal (0°) or Subwoofer Reverse (180°).

Setting item:
Subwoofer Phase
Setting contents:
0° (Initial setting) / 180°

- *This setting is only available when "Subwoofer" is set to "On" (☑).*

Setting the Media Xpander (MX HD)

Media Xpander (MX HD) makes vocals or instruments sound distinct regardless of the music source. The HD-Radio (FM)/SiriusXM, USB Flash drive and iPod/iPhone, will be able to reproduce the music clearly even in cars with a lot of road noise.

Setting item:
MX HD

- *When the Defeat setting is "On," you cannot perform the set up.*
- *When the Sound Setup of the Shortcut Setup is selected to "BASS ENGINE SQ," you cannot perform the set up.*
- *The MX HD setting can be performed only when a source is currently selected.*

■ Adjustable source (media) and setting value

HD-Radio (FM)/SiriusXM: Off (Initial setting) / Level1 / Level2 / Level3
The medium to high frequencies become more clear, and produces well balanced sound in all the bands.

Compressed Media: Off (Initial setting) / Level1 / Level2 / Level3
This corrects information that was omitted at the time of compression. This reproduces a well-balanced sound close to the original.

HDMI/AUX: Off (Initial setting) / Compressed Media / Movie / Music
Choose the MX HD mode (Compressed Media, Movie, or Music) that corresponds to the media connected.

(Movie)
The dialog portion of the video is reproduced more clearly

(Music)
This disc contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.

- *The effectiveness increases as the MX HD setting value increases Level1 → Level2 → Level3.*
- *You can set this for each source.*
- *iPod/iPhone/USB Audio/Bluetooth Audio/Pandora/Bluetooth Pandora correspond to Compressed Media.*

Equalizer Presets

10 typical equalizer settings are preset at the factory for a variety of musical source material.

Setting item:
EQ Presets
Setting contents:
FLAT (Initial setting) / POP / ROCK / NEWS / JAZZ / ELECTRONIC / HIP HOP / EASY LISTENING / COUNTRY / CLASSICAL

- *Only one type can be set to ON.*
- *When Equalizer Presets is set, the linked Dual HD EQ settings are also changed. We recommend storing Dual HD EQ settings in a Preset in advance.*
- *The Equalizer Presets setting can be configured when Defeat is "Off."*

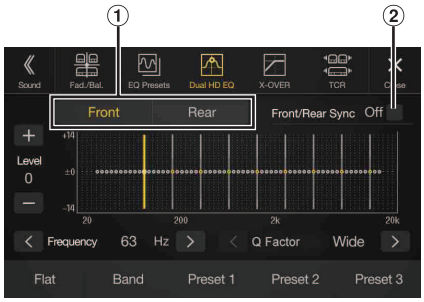
Adjusting the Parametric Equalizer Curve (Dual HD EQ)

Parametric Equalizer (Dual HD EQ) can adjust the center frequency/Q Adjustment (bandwidth)/level in the front seats and the rear seats, respectively.
You can adjust only to the approximate frequency zone, but can then compensate by performing advanced correction of the sound.

Setting item:
Dual HD EQ

- *When the Defeat setting is "On," you cannot perform the set up.*
- *When the Sound Setup of the Shortcut Setup is selected to "BASS ENGINE SQ," you cannot perform the set up.*

1 Adjust the Dual HD EQ to your preference.



① Front/Rear speaker switching button
Not displayed when Front/Rear Sync is "On" (☑).

② Front/Rear speaker interlock button

On:	When you want the Front and Rear speakers to have the same setting, set to "On" (☑).
Off:	When you want to set the Front and Rear speakers independently, set to "Off" (☐).

Adjusting the Band

Touch **[Band]** to select the band to be adjusted.
Band1 → Band2 → ••• → Band8 → Band9 → Band1

- *You can select a band directly by touching the screen.*

Adjusting the Frequency

Touch [<] or [>] of "Frequency" to adjust the frequency of the selected band.

Adjustable frequency bands:

20 Hz to 20 kHz (in 1/3 octave steps)

Band1:	20 Hz~100 Hz (63 Hz)
Band2:	63 Hz~315 Hz (125 Hz)
Band3:	125 Hz~500 Hz (250 Hz)
Band4:	250 Hz~1 kHz (500 Hz)
Band5:	500 Hz~2 kHz (1 kHz)
Band6:	1 kHz~4 kHz (2 kHz)
Band7:	2 kHz~7.2 kHz (4 kHz)
Band8:	5.8 kHz~12 kHz (8 kHz)
Band9:	9 kHz~20 kHz (16 kHz)

Adjusting the Level

Touch [−] or [+] of "Level" to adjust the level of selected band.

Setting contents:

-14 to +14 (Initial setting: 0)

Setting the Bandwidth

Touch [<] or [>] of "Q Factor" to select the bandwidth.

Setting contents:

Wide (Initial setting) / Medium / Narrow

2 To adjust another band, repeat step 1, and adjust all bands.

3 To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.

- *Band2 and Band8 are the same as the Bass and Treble controls.*
- *For details on setting Bass and Treble, see "Adjusting Bass Level/Treble Level" (page 20).*
- *Settings exceeding the frequency of adjacent bands are not available.*
- *While adjusting the Dual HD EQ, you should consider the frequency response of the connected speakers.*
- *When the Dual HD EQ is adjusted, the Equalizer Presets are overridden.*
- *When Equalizer Presets is set, the linked Dual HD EQ settings are also changed. We recommend storing Dual HD EQ settings in a Preset in advance.*
- *Touch **[Flat]** to initialize all values.*

Calling the Dual HD EQ adjusted value

Calling the pre-set Dual HD EQ adjusted value.

Touch [Preset 1], [Preset 2], or [Preset 3] on the Dual HD EQ screen.

The setting stored in the Preset will be recalled.

Adjusting the Crossover Settings (X-Over)

Before performing the following procedures, see "About the Crossover" (page 37).

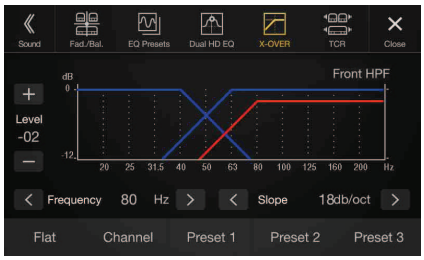
Setting item:

X-Over

- *When the Sound Setup of the Shortcut Setup is selected to "BASS ENGINE SQ," you cannot perform the set up.*

1 Touch [Channel] to select the channel.

Each time you touch, the channel switches.



- *The channel being adjusted is displayed in red.*

  Front HPF → Rear HPF → Subw. LPF → Front HPF

2 Adjust the crossover to your preference.

Selecting the Cut-Off Frequency

Touch [<] or [>] of "Frequency," and then select the cut-off frequency.

Setting contents:

20 / 25 / 31.5 / 40 / 50 / 63 / 80 (Initial setting) / 100 / 125 / 160 / 200 Hz

Adjusting the Slope

Touch [<] or [>] of "Slope," and then adjust the HPF or LPF slope.

Setting contents:

0 (Initial setting) / 6 / 12 / 18 / 24 dB/oct.

Adjusting the Level

Touch [−] or [+] of "Level," and then adjust the HPF or LPF level.

Setting contents:

-12 to 0 dB (Initial setting: 0)

3 Repeat steps 1 to 2 to make adjustment to the other channels.

4 To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.

- *Touch **[Flat]** to initialize all values.*
- *If the Rear Speaker setting is "Off," the Rear Speaker setting cannot be edited (page 33).*
- *If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited (page 33).*
- *While adjusting the X-Over you should consider the frequency response of the connected speakers.*

Calling the X-Over adjusted value

Calling the pre-set X-Over adjusted value.

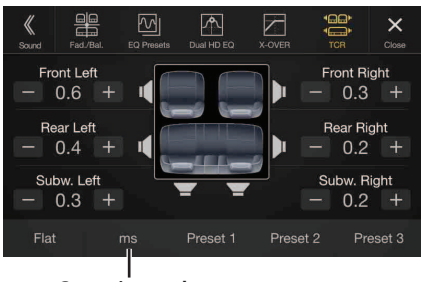
Touch [Preset 1], [Preset 2], or [Preset 3] on the X-Over screen.

The setting stored in the Preset will be recalled.

Adjusting the Time Correction (TCR)

Before performing the following procedures, see "About Time Correction" (page 38).

Setting item:
Time Correction



Correction mode

1 Touch the Correction mode button.
The pop up screen for selecting the correction mode is displayed.

2 Touch [ms], [cm] or [inch] to select the mode for making adjustments.
The selected mode is displayed on the Correction mode button.

3 Touch [−] or [+] for each speaker to adjust the time or distance.
0.0 msec to 9.9 msec (0.1 msec/step)
0.0 cm (0.0 inch) to 336.6 cm (132.7 inch) (3.4 cm/step)
All speaker setting values are adjustable in the range of 15 ms or 510 cm.

4 To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.

- *Touch **[Flat]** to set all values to 0.0.*
- *If the Rear Speaker setting is "Off," the Rear Speaker setting cannot be edited (page 33).*
- *If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited (page 33).*

Calling the Time Correction Value

Calling the pre-set time correction value.

Touch [Preset 1], [Preset 2], or [Preset 3] on the time correction screen.
The setting stored in the Preset will be recalled.

Setting Defeat

If Defeat is "On," MX HD, Equalizer Presets and Dual HD EQ functions are turned Off. This disables any settings made for these functions.

Setting item:
Defeat
Setting contents:
Off (Initial setting) / On

Setting the Volume for Each Source

Setting item:
*Source Volume Setup → Radio / SiriusXM*1 / Compressed Media*2 / iPod Music / iPod Video or AUX*3, 4 / HDMI*4, 5 / Bluetooth Audio / Factory Audio*6*
Setting contents:
-14 to +14 (Initial setting: 0)

**1 Not displayed when a SiriusXM Tuner is not connected.*
**2 Compressed Media is the music data in a USB flash drive (MP3/WMA/AAC/FLAC).*
**3 The item selected in AUX Source Select (iPod Video or AUX) is displayed. For details, see "Setting the AUX Mode" (page 44).*
**4 The source name set in "HDMI Setup" (page 45) and "Setting the Auxiliary (AUX) Name" (page 45) is displayed.*
**5 Not displayed when an HDMI device is not connected.*
**6 Not displayed when an iDataLink module is not connected.*

- *Settable source differs depending on the connected device and settings.*

Adjusting the Caller Level

You can adjust the volume of the incoming call.

Setting item:
Caller Level
Setting contents:
1 to 11 (Initial setting: 5)

Adjusting the Microphone Level

You can adjust the transmit volume, during the call.

Setting item:
Microphone Level
Setting contents:
1 to 11 (Initial setting: 5)

Adjusting the Ring Tone Level

You can adjust the receive volume, during the call.

Setting item:
Ring Tone Level
Setting contents:
1 to 6 (Initial setting: 3)

Volume Setting

You can change the volume of the sound heard when a button is touched.

Setting item:
Key Sound Feedback
Setting contents:
0 to 6 (Initial setting: 3)

Setting Audio Mute On/Off while Backing up

The sound can be muted when the shift gear lever is set to the reverse (R) position enabling you to easily hear sensors, etc., while reversing your car.

Setting item:
Mute While Backing Up
Setting contents:
Off / On (Initial setting)

Off: Does not mute.
On: Mutes when the shift gear lever is set to the reverse (R) position.

Default Sound Settings

You can restore the Dual HD EQ*/X-Over*/Time Correction*/MX HD Level/Rear Speaker/Subwoofer/Subwoofer Level/Subwoofer Phase to factory settings.

Setting item:
Default Sound Settings

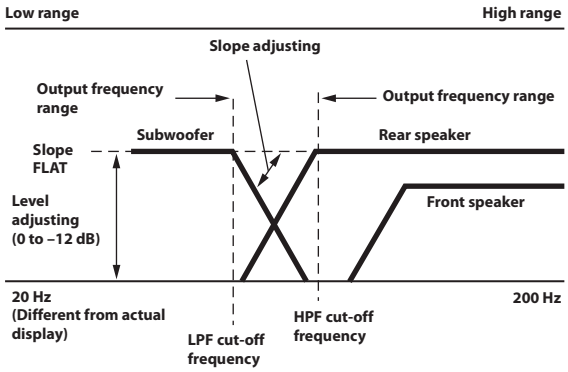
Touch **[Set]**, and the confirmation message appears.
To initialize, touch **[OK]**.

** The setting values that are stored in Preset 1 to Preset 3 cannot be initialized.*

About the Crossover

Crossover (X-Over):
This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.
The crossover adjusts the HPF (high pass filter) or LPF (low pass filter) of each band, and also the slope (how fast the filter rolls off the highs or lows).
Adjustments should be made according to the reproduction characteristics of the speakers. Depending on the speakers, a passive network may not be necessary. If you are unsure about this point, please consult your authorized Alpine dealer.

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Subwoofer (LPF)	----	20 Hz - 200 Hz	----	FLAT, –6, –12, –18, –24 dB/oct.	0 to –12 dB
Rear speaker (HPF)	20 Hz - 200 Hz	----	FLAT, –6, –12, –18, –24 dB/oct.	----	0 to –12 dB
Front speaker (HPF)	20 Hz - 200 Hz	----	FLAT, –6, –12, –18, –24 dB/oct.	----	0 to –12 dB



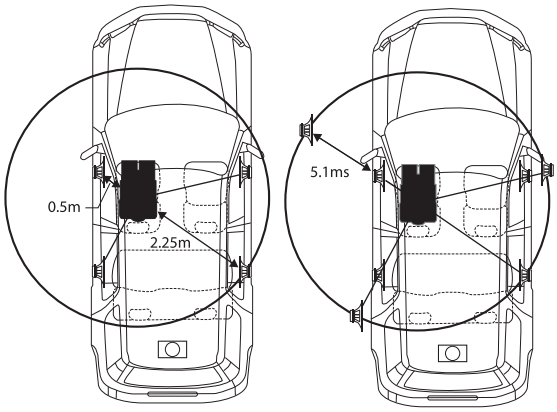
- *HPF (high pass filter): Cuts the lower frequencies and allows the higher frequencies to pass.*
- *LPF (low pass filter): Cuts the higher frequencies and allows the lower frequencies to pass.*
- *Slope: The level change (in dB) for a frequency change of one octave.*
- *The higher the slope value, the steeper the slope becomes.*
- *Adjust the slope to FLAT to bypass the HP or LP filters.*
- *Do not use a tweeter without the HPF on or set to a low frequency, as it may cause damage to the speaker due to the low frequency content.*
- *Adjustment should be made according to the recommended crossover frequency of the connected speakers. Determine the recommended crossover frequency of the speakers. Adjusting to a frequency range outside that recommended may cause damage to the speakers.*
  For the recommended crossover frequencies of Alpine speakers, refer to the respective Owner's Manual.
  We are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

About Time Correction

The distance between the listener and the speakers in a car vary widely due to the complex speaker placement. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.
To correct this, this unit is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging.
The adjustment will be made for each speaker in 3.4 cm steps.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different.
The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").
Here we calculate the time correction value for the front left speaker in the diagram on the above.

Conditions:
Farthest Speaker – listening position : 2.25 m (88-9/16")
Front left speaker – listening position : 0.5 m (19-11/16")
Calculation: L = 2.25 m – 0.5 m = 1.75 m (68-7/8")
Time correction = 1.75 ÷ 343* × 1,000 = 5.1 (ms)

** Speed of sound: 343 m/s (765 mph) at 20°C*

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if its distance from the listener is the same as the distance to the farthest speaker.

Time correction eliminates the differences in the time required for the sound to reach the listening position.
The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

1 Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.

2 Calculate the difference between the distance correction value to the farthest speaker and the other speakers.

L = (distance to farthest speaker) – (distance to other speakers)

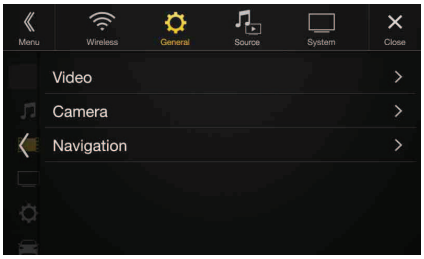
These values are the time correction values for the different speakers. Setting these values to make each sound reach the listening position at the same time as the sound of other speakers.

Time Correction Value List

Time Difference (msec)	Distance (cm)	Distance (inch)	Time Difference (msec)	Distance (cm)	Distance (inch)
0.0	0.0	0.0	5.1	173.4	68.3
0.1	3.4	1.3	5.2	176.8	69.7
0.2	6.8	2.7	5.3	180.2	71.0
0.3	10.2	4.0	5.4	183.6	72.4
0.4	13.6	5.4	5.5	187.0	73.7
0.5	17.0	6.7	5.6	190.4	75.0
0.6	20.4	8.0	5.7	193.8	76.4
0.7	23.8	9.4	5.8	197.2	77.7
0.8	27.2	10.7	5.9	200.6	79.1
0.9	30.6	12.1	6.0	204.0	80.4
1.0	34.0	13.4	6.1	207.4	81.7
1.1	37.4	14.7	6.2	210.8	83.1
1.2	40.8	16.1	6.3	214.2	84.4
1.3	44.2	17.4	6.4	217.6	85.8
1.4	47.6	18.8	6.5	221.0	87.1
1.5	51.0	20.1	6.6	224.4	88.4
1.6	54.4	21.4	6.7	227.8	89.8
1.7	57.8	22.8	6.8	231.2	91.1
1.8	61.2	24.1	6.9	234.6	92.5
1.9	64.6	25.5	7.0	238.0	93.8
2.0	68.0	26.8	7.1	241.4	95.1
2.1	71.4	28.1	7.2	244.8	96.5
2.2	74.8	29.5	7.3	248.2	97.8
2.3	78.2	30.8	7.4	251.6	99.2
2.4	81.6	32.2	7.5	255.0	100.5
2.5	85.0	33.5	7.6	258.4	101.8
2.6	88.4	34.8	7.7	261.8	103.2
2.7	91.8	36.2	7.8	265.2	104.5
2.8	95.2	37.5	7.9	268.6	105.9
2.9	98.6	38.9	8.0	272.0	107.2
3.0	102.0	40.2	8.1	275.4	108.5
3.1	105.4	41.5	8.2	278.8	109.9
3.2	108.8	42.9	8.3	282.2	111.2
3.3	112.2	44.2	8.4	285.6	112.6
3.4	115.6	45.6	8.5	289.0	113.9
3.5	119.0	46.9	8.6	292.4	115.2
3.6	122.4	48.2	8.7	295.8	116.6
3.7	125.8	49.6	8.8	299.2	117.9
3.8	129.2	50.9	8.9	302.6	119.3
3.9	132.6	52.3	9.0	306.0	120.6
4.0	136.0	53.6	9.1	309.4	121.9
4.1	139.4	54.9	9.2	312.8	123.3
4.2	142.8	56.3	9.3	316.2	124.6
4.3	146.2	57.6	9.4	319.6	126.0
4.4	149.6	59.0	9.5	323.0	127.3
4.5	153.0	60.3	9.6	326.4	128.6
4.6	156.4	61.6	9.7	329.8	130.0
4.7	159.8	63.0	9.8	333.2	131.3
4.8	163.2	64.3	9.9	336.6	132.7
4.9	166.6	65.7			
5.0	170.0	67.0			

Picture Quality. Setup

[**Picture Quality.**] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 32).
You can set up items related to an image.



Settable items differ depending on the application.
[Video] (Video media)*1:
Visual EQ / Brightness / Color / Tint / Contrast / Sharpness
[Camera]*2:
Brightness / Color / Contrast
[Navigation]:
Brightness / Contrast

**1 "Video" can be selected while a video is playing.*
**2 The camera names are not displayed when "Off" is set (page 46).*

Selecting the Visual EQ Mode (Factory's setting)

You can select a mode suitable for the subject image.

Setting item:
Visual EQ
Setting contents:
Off (Initial setting) / Night / Soft / Sharp / Contrast

Off:	Initial Setting
Night:	Suitable for movies in which dark scenes frequently appear.
Soft:	Suitable for CGs and animated films.
Sharp:	Suitable for old movies where images are not clearly shown.
Contrast:	Suitable for recent movies.

- *To return to the default video settings, set this function to Off. Any Visual EQ selection or changes made are reset their initial settings.*

Adjusting Brightness

Setting item:
Brightness
Setting content:
-15 to +15 (Initial setting: 0)

You can adjust the brightness between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Color of Picture

Setting item:
Color
Setting content:
-15 to +15 (Initial setting: 0)

You can adjust the color between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Tint of Picture

Setting item:
Tint
Setting content:
R15 to G15 (Initial setting: 0)

Adjust the Color from R15 to G15.

Adjusting Image Contrast

Setting item:
Contrast
Setting content:
-15 to +15 (Initial setting: 0)

You can adjust the contrast between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "LOW" or "HIGH" respectively.

Adjusting Picture Quality

Setting item:
Sharpness
Setting content:
-5 to +5 (Initial setting: 0)

Picture quality adjustment range is -5 to +5. "SOFT" and "HARD" appear as the minimum and maximum values specified.

Saving and calling the adjusted picture quality

When adjusting audio (video media), you can store the settings made for "Adjusting Brightness, Color, Tint, Contrast and Sharpness."

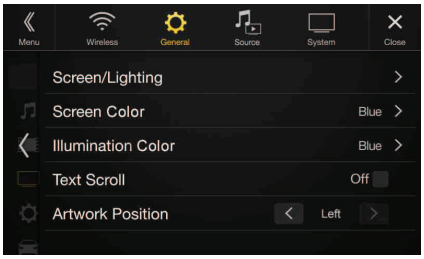
Setting item:
Preset 1 / Preset 2

1 **After completing "Adjusting Brightness, Color, Tint, Contrast and Sharpness" (page 39), touch and hold [Preset 1] or [Preset 2] to save the settings.**

2 **Touch [Preset 1] or [Preset 2] to call the saved settings.**

Display/Key Setup

[**Display/Key**] is selected on the General Setup Menu screen in step 2. See "General Setup" (page 32).
You can set up the brightness, color, display, etc., of the screen.



Screen/Lighting Customize

1 **Touch [Screen/Lighting] in the Display/Key Setup Menu screen.**
The Screen/Lighting setup screen appears.

Setting item:
Dimmer / Key Illumination Level / Screen Dimmer Level

Setting the Brightness of the Backlighting

Backlighting is provided by LEDs light built into the liquid crystal panel. The illumination control adjusts the brightness of the backlighting based on the car ambient lighting for easier viewing.

Setting item:
Dimmer
Setting contents:
Auto (Initial setting) / On / Off

Auto:	Adjust the brightness of the background illumination of the monitor automatically to the brightness of the car interior.
On:	Keep the background illumination of the monitor dark.
Off:	Deactivate Auto Dimmer mode to keep the background illumination of the monitor bright.

- *When "On" is set, the setting is also applied for the button lighting in "Adjusting the Dimmer of Button Lighting at Night" (page 40), and "Adjusting the Minimum Level of Backlight" (page 40).*

Adjusting the Dimmer of Button Lighting at Night

You can adjust the brightness of the button lighting at night with the dimmer.

Setting item:
Key Illumination Level
Setting level:
-2 to +2 (Initial setting: 0)

- *This setting is only available when "Dimmer" is set to "On."*

Adjusting the Minimum Level of Backlight

You can adjust the brightness of the backlight. This function could be used, for instance, to change the screen brightness while traveling at night.

Setting item:
Screen Dimmer Level
Setting content:
-15 to +15 (Initial setting: 0)

You can adjust the level between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

- *This setting is only available when "Dimmer" is set to "On."*

Switching the Display Color

You can choose from 8 different display colors.

Setting item:
Screen Color
Setting contents:
Blue (Initial setting) / Light Blue / Aqua / Red / Green / Amber / Yellow / White

Switching the Illumination Color (X108U/INE-W967HD only)

You can choose the color of the Front Panel button from one of 7 colors.

Setting item:
Illumination Color
Setting contents:
Blue (Initial setting) / Light Blue / Aqua / Red / Green / Amber / Yellow

Setting the Text Scroll

Scroll display is available if folder name, file name or tag information is entered.

Setting item:
Text Scroll
Setting contents:
Off (Initial setting) / On

Off:	Turns off the scroll mode.
On:	Turns on the Auto scroll mode. Scroll display is repeated as long as the mode is turned on.

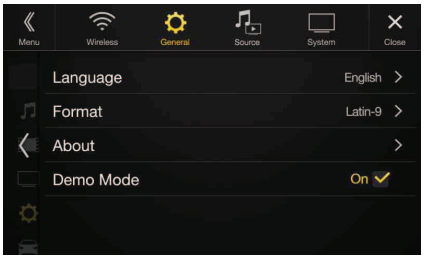
Switching the Artwork Position

You can set the artwork position to the center or the left.

Setting item:
Artwork Position
Setting contents:
Center / Left (Initial setting)

General Setup

[**General**] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 32).
You can set up items related to the language, etc.



Setting the Menu Language

The Setup menu, feedback information, etc. for this unit can be changed to appear in the selected language.

Setting item:
Language
Setting contents:
English / Deutsch / Français / Español / Português / Italiano / Nederlands / Suomi / Norsk / Svenska / Dansk / русский язык / Slovenčina / Polski / Český / Magyar / Ἑλληνικά / ภาษาไทย / Türkçe / 中文 / العربية / עברית / Bahasa Indonesia

Format settings

The character code to be used for tag text information displayed on the screen can be selected from 7 character codes.

Setting item:
Format
Setting contents:
Latin-1 / Latin-9 (Initial setting) / Russian / Chinese / Thai / Arabic / Hebrew

Latin-1:	ISO 8859-1
Latin-9:	ISO 8859-15
Russian:	ISO 8859-5
Chinese:	GB18030-2005
Thai:	CP874
Arabic:	CP1256
Hebrew:	CP1255

About X110/X108U/INE-W967HD

[About] enables you to check the Serial No., Firmware Version, Model Name, and to initialize various settings.

Displaying the Product Information

You can view the version information of this product. Make note of this information and refer to it whenever you contact Alpine Tech Support or an Alpine-authorized dealer.

Setting contents:
Serial No. / Firmware Version / Model Name

Initializing the System

You can initialize all data, to restore the factory settings. Remove the USB flash drive, etc. from the system before operation

Setting item:
Clear All Settings

1 **Touch [Reset] of "Clear All Settings."**

2 **After the confirmation message appears, touch [OK].**
The confirmation screen appears again.

3 **Touch [OK].**
The system starts initialization.

- *Do not turn on/off the power, change the ignition key position or remove the screen panel until system restart is completed.*

Setting Demo mode to Off/On

This unit has a Demonstration feature for the display. When you install and use the unit for the first time, the unit will enter demo mode automatically. To quit demo mode, set Demo mode to Off.

Setting item:
Demo mode
Setting contents:
Off / On (Initial setting)

- *If you perform an operation during the Demo mode, the demonstration is temporarily stopped.*

Vehicle Setup

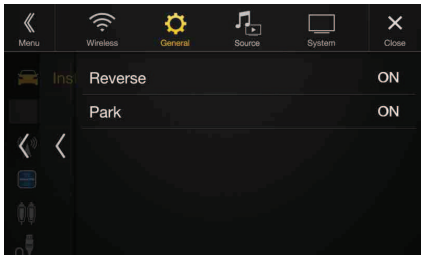
[**Vehicle**] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 32).

Installation Setup

Vehicle Setup enables you to check the connection status of Reverse Lead/Parking Brake Lead.

Setting item:
Installation Status

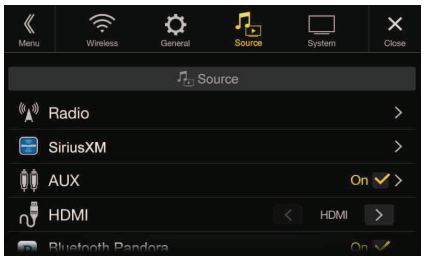
The Installation check screen is displayed.



Source Setup

[**Source**] is selected on the Setup main screen in step 3. See "Setup Operation" (page 29).

■ Source Setup Menu screen



<Setting items>

Radio	
	FM Tuner Setting
	FM Frequency Step
SiriusXM	
	Alert Setup
	Alert
	Alert Delete All
	Favorite Team Setup
	Parent Lock
	Signal Indicator
AUX	
	AUX Source Select*
	AUX Name*
	Signal*
HDMI	
Bluetooth Pandora	

* *This setting is only available when "AUX" is set to "On" (☑).*

The following steps 1 to 3 are common to each "Setting item" of Source Setup. See each section for details.

1 **Select the desired item.**

2 **To switch the setting, touch [〈], [〉], [+], [−], or mark the checkboxes "Off" (☐) or "On" (☑).**

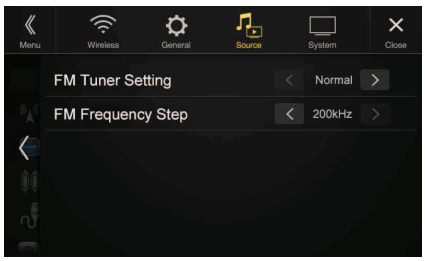
- *If "〉" appears, there is a further hierarchy. Touch the desired item.*

3 **Touch [✕] to return to the main source screen.**

- *To return to the previous List screen, touch [《] or [〈] in the previous page. For details, see "About Basic Operation for List Screen" (page 18).*

Radio Setup

[**Radio**] is selected on the Source Setup Menu screen in step 1. See "Source Setup" (page 42).



Setting the TUNER (FM) Tone Quality (Tuner Condition)

This unit can set your preferred tone quality for FM radio source.

Setting item:
FM Tuner Setting
Setting contents:
Normal (Initial setting) / HiFi / Stable

Normal:	Standard setting
HiFi:	High-quality setting
Stable:	Control noise

- *Noise may be more noticeable when HiFi is set, depending on the reception status. In this case, the Normal setting is recommended.*

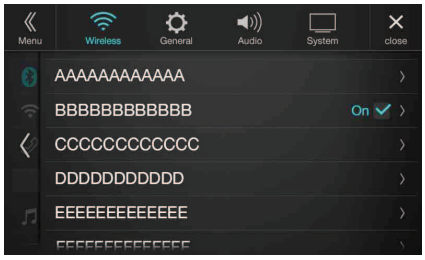
Setting the TUNER (FM) Frequency Step

During manual tuning, you can select the frequency step for FM analog radio station searching.

Setting item:
FM Frequency Step
Setting contents:
200kHz (Initial setting) / 100kHz

SiriusXM Setup

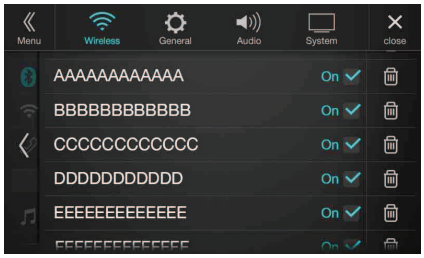
[**SiriusXM**] is selected on the Source Setup Menu screen in step 1. See "Source Setup" (page @@).
The following operations can be performed to manage the stored Songs, Artists and Sports Teams information. (To learn about how to store the information, see "Storing the desired Song/Artist" on page @@ and "Setting the Favorite Sports Team Alerts" on page @@.)



Setting the Alert individually for an Artist/ Song/Favorite Team

This menu option allows you to enable the Artist/Song/Team alert for individual Artists/Songs/Teams (On or Off) or to delete individual stored Artist/Song/Team alerts (Delete).

Setting item:
Alert Setup
Setting contents:
On / Off / Delete



Set to "On" (☑) to enable the alert for the Artist/Song or Team.
Set to "Off" (☐) to disable the alert for the Artist/Song or Team.

- *To delete the list, touch [🗑] **(Delete)**, and then touch **[OK]**.*

Setting ON/OFF of all Songs/Artists/Games Alert

This menu option allows you to temporarily disable the Artist/Song/ Game Alerts for all Artists/Songs/Games. When the Alerts are re-enabled, individual Artist/Song/Game Alert disabled in the Alert List menu setting remain disabled.

Setting item:
Alert
Setting contents:
On / Off

If "On" (☑) is set, the alert for all stored Artists/Songs/Games is enabled.
If "Off" (☐) is set, the alerts for all stored Artists/Songs/Games are disabled.

Deleting all stored Alert

This operation will delete all alerts (artists, songs and teams) stored in memory.

Setting item:
Alert Delete All

1 **Touch [Reset] of "Alert Delete All."**
A message is displayed.

2 **Touch [OK] to clear the information of all stored Artist, Song, and Game alert items.**
Touch **[Cancel]** to cancel.

Setting the Favorite Sports Team Alerts

This menu option allows you to select your favorite teams, organized by leagues, so that you will be alerted later when your favorite teams are playing on other channels. Once selected, you will be alerted when games that those teams are playing in can be heard on a SiriusXM channel.

Setting item:
Favorite Team Setup
Setting contents:
On / Off

1 **Touch [Favorite Team Setup].**
A sports league list is displayed.

2 **Select the desired league.**
The display changes to the team list of the selected league.

3 **Touch the checkbox of your Favorite Team to set it to "On" (☑) or "Off" (☐).**
- *When "On" (☑) is set, scrolling text of the Team name, Total registrations, and Remaining number of registration slots is displayed for two seconds, then the team is registered as a Favorite Team.*
  When "Off" (☐) is set, the registration of your Favorite Team is canceled.
- *The maximum number of registered Teams, Artists, and Songs is 50. For details on how to register an Artist alert or Song alert, see "Storing the desired Song/Artist" (page @@).*
- *If the total number of registered Teams, Artists, and Songs is already at 50 when "On" (☑) is set, then scrolling text is displayed, asking whether you want to replace a registered Artist/ Song/Team with the new one. If you want to replace one, go to step 4.*

4 **Touch [OK].**
The list of registered Artists/Songs/Teams is displayed.
- *If you want to cancel the registration of your Favorite Team, then touch [Cancel], and return to step 3.*

5 **Touch the Artist, Song, or Team name that you want to replace.**
Scrolling text of the Team name, Total registrations, and Remaining number of registration slots is displayed for 2 seconds, then the team is registered as a Favorite Team.

- *For details on deleting a registered Artist, Song, or Team beforehand, to secure a registration slot in advance, see "Setting the Alert individually for an Artist/Song/Sport Team" (page @@).*

Setting the Parental Lock

You can lock out channels with passcode protection. Channels that are locked cannot be accessed without entering the passcode. You can unlock a channel or change the passcode using this menu option.

Setting item:
Parental Lock

1 **Touch [Parental Lock].**
A passcode input screen is displayed.

2 **Touch the numeric keypad to input a 4-digit passcode.**
The initial default 4-digit passcode is set to 0000.
After entering the digit, it is displayed as "*" (asterisk).
- *Touch [⌫] to delete an entered number.*
- *Touch **[Delete All]** to delete all entered numbers.*

3 **Touch [Enter].**

Setting the Lock status of individual channels

4 **Touch [Locked Channels].**
The channels list screen is displayed.

5 **Touch the checkboxes [☐] or [☑] of the channels list to set the Parent Lock Off/On.**

Clearing the Lock of ALL the locked Channels

4 **Touch [Clear All Locked Channels].**

5 **Touch [OK] to clear the lock of all the locked channels.**
Touch **[Cancel]** to cancel.

Changing the Lock Passcode

4 **Touch [Edit Code].**
The numeric keypad screen is displayed.

5 **Use the keypad to enter the current (old) 4-digit passcode.**
The initial passcode is set to 0000.
- *Touch [⌫] to delete an entered number.*
- *Touch **[Delete All]** to delete all entered numbers.*

6 **Touch [Enter] to confirm the entry.**

7 **Now use the keypad to enter the new 4-digit passcode.**

8 **Touch [Enter].**

9 **Then use the keypad to enter the new 4-digit passcode a second time to verify it.**

- *Remember to keep a note of the passcode in a safe place in case you forget the code.*

Signal Strength Information

While listening to a SiriusXM Channel, the Signal strength of the current channel will be displayed.

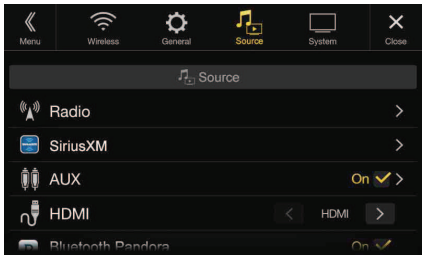
Setting item:
Signal Indicator

This menu item displays the SiriusXM signal strength as Strong, Good, Weak or No Signal.

- *If the Signal Indicator reports Weak or No Signal and your vehicle is parked outside with no obstructions to the southern sky, then your SiriusXM antenna may not be properly installed or may have become damaged.*

AUX Setup

[**AUX**] is selected on the Source Setup Menu screen in step 1. See "Source Setup" (page 42).
You can set up the items related to the Auxiliary device.



Setting item:
AUX
Setting contents:
Off / On (Initial setting)

Off:	AUX source is not displayed.
On:	AUX source is displayed.

Setting the AUX Mode

Make sure the AUX is set to "On" (☑). See "AUX Setup" (page 44).
Connection with external input devices is available through the AUX Input connector. An optional adapter cable is required (standard RCA to 3.5ø mini-phono plug or 3.5ø to 3.5ø mini phono plug).
You can also play back video connecting with an optional AV cable (4-pole mini AV plug to 3-RCA).

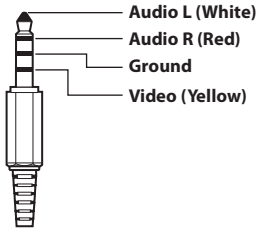
Setting item:
AUX Source Select
Setting contents:
iPod Video / AUX (Initial setting)

iPod Video:	Set when connected to an iPod or iPhone.
AUX:	Set when connected to an external input device.

- *When an iPod video is selected or the current source is AUX, this setting cannot be adjusted.*

■ Usable 4-pole mini AV plug

The unit accepts the following 4-pole mini AV plug pin-out:



- *Please check pin-out carefully before use of this product. Depending on the cable, there may be no picture and/or sound.*

Setting the Auxiliary (AUX) Name

Make sure the AUX is set to "On" (☑). See "AUX Setup" (page 44).

Setting item:
AUX Name
Setting contents:
AUX (Initial setting) / AUX DVD / GAME / External DVD / DVD Changer / DVB-T / TV / USB Player

Switching the Visual Input Signal System

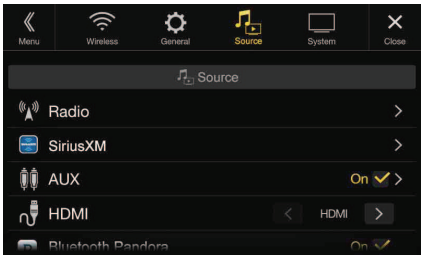
You can make this setting only when AUX is set to "On" (☑). See "AUX Setup" (page 44).

Setting item:
Signal
Setting contents:
Auto (Initial setting) / NTSC/PAL

Auto:	The video input signal type (NTSC or PAL) will be automatically selected.
NTSC/PAL:	Choose the video input signal type manually.

HDMI Setup

[HDMI] is selected on the Source Setup Menu screen in step 1. See "Source Setup" (page 42).
You can set the name of an external device connected via HDMI.



Setting item:
HDMI
Setting contents:
HDMI (HDMI 1) (Initial setting) / DVD*

HDMI (HDMI 1):	Set when a smartphone is connected via HDMI.
DVD:	Set when an external DVD player is connected.

* *When the HDMI selector is set to "On," "HDMI 1" is displayed in the Setting contents. For details on setting the HDMI selector, see "Setting the HDMI selector On/Off" (page @@).*

Setting the Bluetooth Pandora®

[Bluetooth Pandora] is selected on the Source Setup Menu screen in step 1. See "Source Setup" (page @@).
To use Bluetooth Pandora, set the Bluetooth Pandora setting to "On."

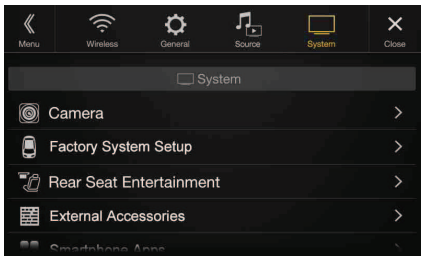
Setting item:
Bluetooth Pandora
Setting contents:
Off / On (Initial Setting)

- *When "On" is set, the Bluetooth Pandora® source is displayed on the Menu screen.*
- *When the current source is Bluetooth Pandora, this setting cannot be adjusted.*

System Setup

[System] is selected on the Setup main screen in step 3. See "Setup Operation" (page 29).

■ System Setup Menu screen



<Setting items>

Camera	
	Camera Select
	Camera Signal*1, 4
	Guide Adjustment*2, 4
	Camera Interrupt (Power Mode)*3, 4
	Front Camera / Rear Camera / Side Camera*5
	Default Camera*6
Factory System Setup	
	USB/iPod / SiriusXM / Bluetooth Audio
	Hands-free Connection
	Default Vehicle Screen
	Maestro Module
Rear Seat Entertainment	
	Rear Seat Entertainment
	Remote Sensor
External Accessories	
	External Audio Processor
	RSE Aux Switch Box
	HDMI selector
	External Accessory Ctrl
Smartphone Apps	
	Alpine TuneIt App*7

**1 When Camera Select is set to "Off," you cannot select this item.*
**2 You can select this item only when Camera Select is "Front" or "Rear."*
**3 You can select this item only when Camera Select is "Rear."*
**4 Not displayed when you select "Camera Selector" in Camera Select.*
**5 Displayed when you select "Camera Selector" in Camera Select.*
**6 You can change the Default Camera only when you set more than one camera among Front Camera/Rear Camera/Side Camera to "On." For details, see "Default Camera setting" (page @@).*
**7 Set this setting after closing the Alpine TuneIt App.*

The following steps 1 to 3 are common to each "Setting item" of System Setup. See each section for details.

1 **Select the desired item.**

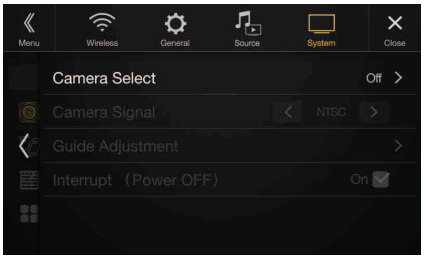
2 **To switch the setting, touch [〈], [〉], [+], [−], or mark the checkboxes "Off" (☐) or "On" (☑).**
- *If "〉" appears, there is a further hierarchy. Touch the desired item.*

3 **Touch [✕] to return to the main source screen.**

- *To return to the previous List screen, touch [《] or [<] in the previous page. For details, see "About Basic Operation for List Screen" (page 18).*

Camera Setup

[**Camera**] is selected on the System Setup Menu screen in step 1. See "System Setup" (page 45).
You can set up items related to the Camera.



Setting the Camera Input

Setting item:
Camera Select
Setting contents:
Off (Initial setting) / Front / Rear / Other / Camera Selector

Front:	Front camera
Rear:	Rear camera
Other:	Side camera, Room camera, etc.
Camera Selector*:	Front Camera/Rear Camera/Side Camera connected to the optional Multi Camera Interface box.

* *When selecting Camera Selector, you can set the Front Camera/Rear Camera/Side Camera to On/Off. For details, see "Setting Multi Camera to On/Off" (Page@@).*

Setting the Camera Signal Input

When the camera is connected, the video input signal type can be chosen.

Further setting item:
Camera Signal
Setting contents:
NTSC (Initial setting) / PAL

Switching Video Patterns for Multi View Camera

The video pattern can be changed when connected to Multi View Camera.
When Camera Select is set to "Off," you cannot select this item.

Setting item:
Guide Adjustment

1 **Touch [Guide Adjustment].**
The camera guide adjustment screen is displayed.

Multi View compatible Side Camera

2 **Touch [Front] or [Rear].**
The camera guide adjustment screen is displayed.

Multi View compatible Front Camera/Rear Camera

2 **Touch [Back], [Panorama], [Corner], or [Top].**
The view will change to the selected view.

- *[Back] will not appear for the Front camera.*

- *For an explanation of video patterns, see the camera Owner's Manual.*

Adjusting the Rear/Front/Side Camera Guide

You can adjust the camera guide position.

Setting item:
Guide Adjustment

1 **Touch [Guide Adjustment].**
The camera guide adjustment screen is displayed.

- *If the video pattern is set to "Corner (Rear/Front Camera only)," the camera guide will not be displayed.*
- *When you connect a Multi View compatible camera, select a Video Pattern to make a guide adjustment.*
- *When you connect a Multi View compatible Side Camera, after selecting the Video Pattern, touch [ ] **(Left steering)** or [ ] **(Right steering)** to make the guide adjustment that matches the position of the steering wheel in your vehicle.*

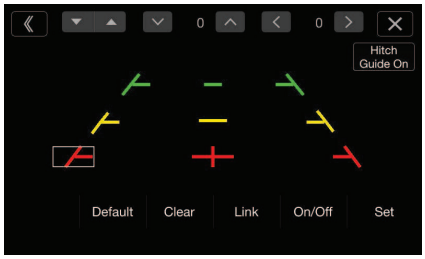
2 **Touch [Adjust].**

- *If **[Adjust]** does not appear, proceed to step 3.*

3 **Touch the guide you intend to adjust.**
Guide line can also be selected by touching [▼] [▲].

■ **Rear Camera screen example**

When Hitch Guide is set to Off

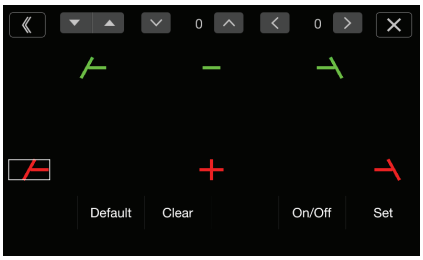


- *You cannot adjust the position of the yellow guide line "—" in the center independently.*
  It is controlled by a system to be the center of the two yellow guide lines "/" and "\" on the left and right, or the central green line "—" and red guide line "+".

When Hitch Guide is set to On

- *You can adjust the Hitch Guide to mark the position of the junction between your vehicle and your trailer.*

■ **Front Camera screen example**



4 **Touch [∨], [∧], [〈] or [〉] to adjust the position of the guide.**

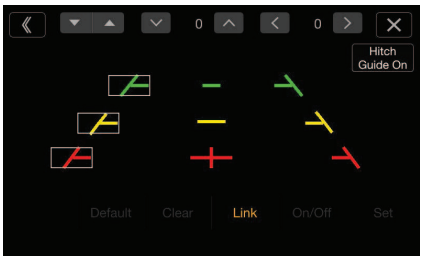
- *Touching **[Clear]** clears adjustments and returns to the setting before guide line alteration.*

5 **After the adjustment is completed, touch [Set].**

Adjusting Guides Simultaneously (for Rear/Side Camera only)

<Rear Camera>

1 **Touch [Link].**
The 3 vertical guides of the currently-selected guide link together, allowing them to be adjusted simultaneously.



- *Note on the yellow guide line "—" in the center*
  The yellow guide line "—" in the center is controlled by a system that locates it in the center of the two yellow guide lines, "—" and "—" on the left and right, or the green line "—" on the top and red guide line "—" below. Therefore you cannot move it manually.

<Side Camera>

1 **Touch [Link].**
The 2 vertical guides of the currently-selected guide link together, allowing them to be adjusted simultaneously.

Turning Guide Display On/Off (Rear/Front Camera only)

Turning the selected guide off.

1 **Touch [On/Off].**
The currently selected guide will turn off.

2 **To turn the guide on, touch [On/Off] again.**

- *Guides that are turned off are still adjustable.*

Returning Guides to Default

1 **Touch [Default].**
A message window will appear.

2 **Touch [OK].**
Adjusted values will return to default settings.

Camera Interrupt Setting (Power OFF Mode) (Rear Camera Only)

You can set whether to display the rear camera image when the gear lever is moved to the reverse (R) position while the unit is turned off. You can select this item only when Camera Select is "Rear."

Setting item:
Camera Interrupt (Power Mode)
Setting contents:
On (Initial setting) / Off

On:	The rear camera image is displayed
Off:	The rear camera image is not displayed

Setting Multi Camera to On/Off

When connecting the optional Multi Camera Interface box, you can connect up to 3 cameras as Front Camera/Rear Camera/Side Camera. Set to "On" (☑) to enable each camera.

Setting item:
Front Camera / Rear Camera / Side Camera
Setting contents:
Off (Initial setting) / On

Set to "On" and touch the camera name to make individual adjustments.

Camera Signal:	See "Setting the Camera Signal Input" (page @@)
Guide Adjustment:	See "Setting the Camera Signal Input" (page @@)
Camera Interrupt (Power Mode):	See "Camera Interrupt Setting (Power OFF Mode)" (page @@)

Setting a Default Camera

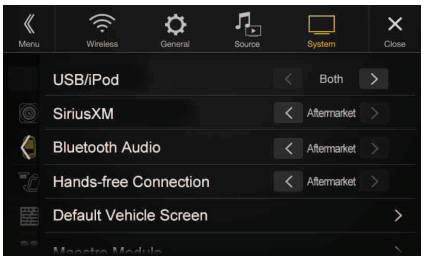
When connecting an optional Multi View Camera, you can set which camera image is displayed when you touch the Camera button on the Menu screen or press the (CAMERA) button (X110 only).

Setting item:
Default Camera
Setting contents:
Front / Rear / Side

- *The initial setting differs depending on the cameras set to "On" in "Setting Multi Camera to On/Off."*

Factory System Setup

[**Factory System Setup**] is selected on the System Setup Menu screen in step 1. See "System Setup" (page @@).
You can make this setting only when an iDataLink module is connected.



Setting the Source Category

You can set whether the following source icon in the Menu screen is available.

Setting item:
USB/iPod (Initial setting: Both) / SiriusXM (Initial setting: Aftermarket) / Bluetooth Audio (Initial setting: Aftermarket)
Setting contents:
Both / OEM / Aftermarket

Both*:	Both the sources listed above from this unit and iDataLink module are available.
OEM:	Only the source listed above from iDataLink module is available.
Aftermarket:	Only the source listed above from this unit is available.

* *USB/iPod only.*

- *The iDataLink source icons not displayed on the Menu screen when no iDataLink module is connected even though "Both" or "OEM" is set.*
- *You cannot set the source that is currently being played.*

Setting the Hands-free Connection

Select to pair the Bluetooth compatible phone with this unit or the connected iDataLink module.

Setting item:
Hands-free Connection
Setting contents:
OEM / Aftermarket (Initial setting)

OEM:	Select to pair the Bluetooth compatible phone with the connected iDataLink module.
Aftermarket:	Select to pair the Bluetooth compatible phone with this unit.

- *When "OEM" is selected, the screen changes to the Phone menu screen of the iDataLink module.*

Setting the Default Vehicle Screen

Press and hold the ★ (Favorite) button for at least 2 seconds or touch the Menu screen (page @@) to display the Info mode screen, and then set the following.

Setting item:
Default Vehicle Screen
Setting contents:
Climate / Vehicle Info. / Gauges / Parking Assist / Last mode (Initial setting)

- *Depending on the car, some setting contents or this setting item may not be displayed.*

Setting the Maestro Module

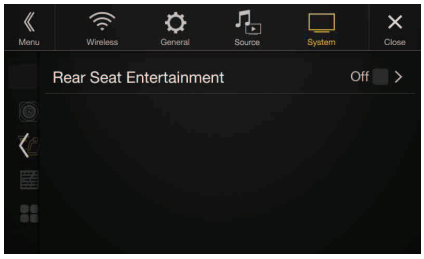
You can change the setting of the connected iDataLink module.

Setting item:
Maestro Module

- *Depending on the iDataLink module, the setting contents may differ.*

Rear Seat Entertainment Setup

[**Rear Seat Entertainment**] is selected on the System Setup Menu screen in step 1. See "System Setup" (page 45).



When a Rear monitor equipped with HDMI input is connected to this unit, change this setting to "On." You can output images to the Rear monitor. For details, see "Rear Seat Entertainment Function" (page 20).

Setting item:
Rear Seat Entertainment
Setting contents:
Off (Initial setting) / On

- *When this setting is "On," you can use this unit to switch the Illumination of a Rear monitor with the Illumination function.*

Setting the Rear Seat Entertainment System

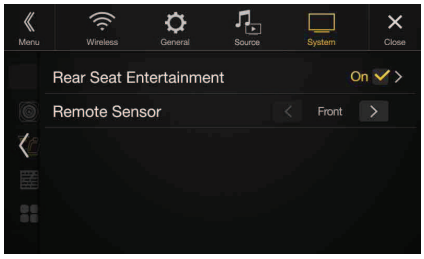
Make sure the Rear Seat Entertainment is set to "On" (☑). See "Rear Seat Entertainment Setup" (page 48).

Setting item:
Plasmacluster/Illumination Color
Setting contents:
Off (Initial setting) / On

- *For details on adjusting Plasmacluster/Illumination, see "Rear Seat Entertainment Function" (page 20).*
- *When the Rear Seat Entertainment setting is set to "Off," you cannot select this item.*
- *Set the coordination color and Plasmacluster controls on the Rear monitor to "Navi." When set to "Rear monitor," you cannot operate them from this unit.*

Remote Sensor Setting

Make sure the Rear Seat Entertainment is set to "On" (☑). See "Rear Seat Entertainment Setup" (page 48).
For remote control operation, the remote sensor of the external device (Rear monitor, etc.) can be switched, as you prefer.



Setting item:
Remote Sensor
Setting contents:
Front (Initial setting) / Rear

Front:	The remote sensor of this unit is effective.
Rear:	The remote sensor of Rear monitor is effective.

- *You can also control this setting from the Rear Seat Entertainment System Setup screen. For details, see "Rear Seat Entertainment Function" (page 20).*

External Accessories Setup

[External Accessories] is selected on the System Setup Menu screen in step 1. See "System Setup" (page 45).

Setting the External Audio Processor

When using an external audio processor, set to "On" (☑).

Setting item:
External Audio Processor

Setting contents:
Off (Initial setting) / On

- *When this setting is "On," the Volume level is fixed at 10. Also, Balance/Fader/Subwoofer Level/Subwoofer Phase/Bass/Treble/MX HD/EQ Presets/Dual HD EQ/X-Over/Time Correction/Defeat/Phone Speaker/Default Sound Settings are set to "Off" or "Flat" and cannot be adjusted.*
- *Use the external AP to adjust volume.*

Setting the Additional AUX BOX

When displaying an AUX image in the rear monitor, you need an external AUX distribution box.
When using an external AUX distribution box, set to "On" (☑).

Setting item:
RSE Aux Switch Box

Setting contents:
Off (Initial setting) / On

Setting the HDMI Selector On/Off

If you connect an HDMI selector, you can connect two HDMI devices.
When using an HDMI selector, set to "On" (☑).

Setting item:
HDMI selector
Setting contents:
Off (Initial setting) / On

- *For details on switching the HDMI source when two HDMI devices are connected, see "HDMI Operation" (page @@).*

Setting the External Accessory Control

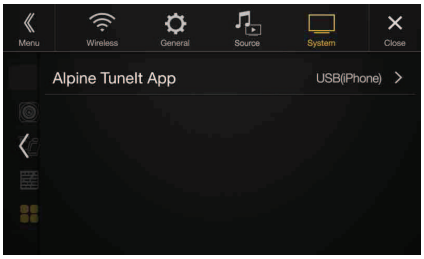
When you have connected the optional External Accessory Control box, set this setting to "On" to turn the headlights ON/OFF or adjust the air suspension from this unit.

Setting item:
External Accessory Ctrl
Setting contents:
Off (Initial setting) / On

- *When set to "On," the [##] (Ext Acc Ctrl) icon is displayed on the Menu screen.*
- *For details on the External Accessory screen and its operation, see "External Accessory Control Operation" (page @@).*

Smartphone Apps Setup

[**Smartphone Apps**] is selected on the System Setup Menu screen in step 1. See "System Setup" (page 45).



Set TuneIt to USB (iPhone) when an iPhone is connected, or set to Bluetooth (Android) when an Android Smartphone is paired.

Setting item:

Alpine TuneIt App

Setting contents:

*Off / USB (iPhone) (Initial setting) / Bluetooth (Android)**

Off:	No Smartphone is connected.
USB (iPhone):	When an iPhone is connected to the unit's USB port, you can programme the unit's sound tuning parameters, or communicate with SNS.
Bluetooth (Android):	Set this when an Android Smartphone is paired with this unit via Bluetooth technology. And after Bluetooth Audio is connected, you can programme the unit's sound tuning parameters, or communicate with SNS.

- *Set this setting after closing the Alpine TuneIt App.*
- *For this function to work properly, specific applications must be installed on your Smartphone before connection. Consult your Alpine dealer or the Alpine website for details.*
- *Only the iPhone and certain Android Smartphones support this function.*

* *Not displayed when Bluetooth is set to Off. For details, see "Bluetooth Setup" (page 30)*

Radio/HD Radio™/ RBDS

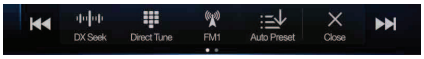
The unit can receive HD Radio signals based on digital radio broadcast standards, in addition to analog radio broadcasts using RBDS.
HD Radio signals are broadcast in the service areas of the current AM/FM broadcasters where they provide digital audio distribution and data services. This unit receives the above digital broadcasts for your high-quality sound enjoyment.
Depending on the signal strength in TUNER mode, the unit will automatically switch between digital signals if they can be received, and analog radio using RBDS if digital signals cannot be received. For details, please see "Switching between Digital and Analog," "Forced Analog Mode."

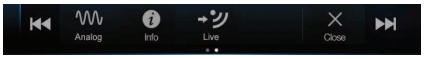
- *RBDS mode is only available during FM broadcast reception.*

This unit is able to receive signals based on the terrestrial digital radio broadcasting standard.
When current AM/FM broadcasters are transmitting digital audio and data services, HD Radio signals are on-the-air in their service area. You can receive their digital broadcast and enjoy high quality sound.
If there is no HD Radio signal in the current area, after 10 seconds, this unit will switch to receive the RBDS Radio signal automatically.
However, the display is still HD Radio mode screen.

■ HD Radio main screen example

Function mode





① HD Radio Indicator *1
② Band display
Displays the band of the signal currently being received.
③ Tag Indicator
When Tagging is available, the Tag indicator is shown.
④ Multicast Indicator*2
Lights during multicast reception.
⑤ Info area
RBDS
Station Info. mode:
PTY/Frequency or PS Name/Artist Name/Song Name/Album Name
Radio Text mode:
Frequency/ Radio Text

- *For details on switching the display of the Radio text, see "Displaying Radio Text (RBDS FM Radio mode only)" (page @@).*

HD Radio
Station Info. mode:
Station Slogan or Long Station Name/Frequency/Artist Name/Song Name/Album Name
⑥ Artwork etc./Station Logo display*1
⑦ Preset mode button
Swipe to the right when you use the Preset mode screen.

*1 *HD Radio mode only.*
*2 *Lights during multicast reception.*

■ Preset mode screen example

⑧ Preset button
Swipe vertically in the list to change pages.
⑨ PTY list button (RBDS FM Radio mode only)
Swipe to the right when you use the PTY list screen.

Radio Basic Operation

Listening to the Radio

1 Press the ♪ (AUDIO) button to select radio mode.
The display shows the radio mode screen.
- *You can select and change the source from the Menu screen (page 21) or the Favorite screen (page 24).*

2 Touch [ ].
The radio band select pop up screen is displayed.
- *[ ] button displays the current selected band. (e.g. [FM1])*

3 Select the desired band from FM1/FM2/AM.

4 Touch [ ].
The tuning mode selection popup is displayed.
- *[ ] button displays the current selected mode. (e.g. [DX Seek])*

5 Touch the desired tuning mode.
The radio frequency up or down button changes depending on the tuning mode.

DX Seek | Local Seek | D.DX Seek | D.Local Seek

Manual | PTY

- *There are two modes you can select for auto tuning, DX and Local:*
  - *DX Seek (Distance) mode*;*
    Both strong and weak stations will be tuned in.
  - *Local Seek mode*;*
    Only strong stations will be tuned in.
    The initial setting is DX.
  - *D (Digital).DX Seek mode;*
    Automatically receives a receivable digital broadcast.
  - *D (Digital).Local Seek mode;*
    Automatically receives a strong digital broadcast only.
  - *Manual mode;*
    The frequency is manually tuned in steps
  - *PTY Seek mode (RBDS FM Radio mode only);*
    The currently selected programme type station will be tuned.
- *During Forced Analog mode, digital broadcasts cannot be received.*

** Depending on the signal, a digital or analog broadcast is received.*

6 Touch [|◀◀], [▶▶|] or [◀◀], [▶▶] to change the radio frequency up or down respectively.
In manual mode, touch and hold to change the frequency continuously.

- *The |◀◀, ▶▶| buttons provide the same functions above.*

Presetting Stations Manually

1 Tune in a desired radio station you wish to store in the preset memory by manual or automatic seek tuning.

2 Touch the Preset number you want to store, for at least 2 seconds.
The selected station is stored.

3 Repeat the procedure to store up to 11 other stations onto the same band.
To use this procedure for other bands, simply select the desired band and repeat the procedure.

A total of 36 stations can be stored in the preset memory (12 stations for each band; FM1, FM2, or AM).

- *For details on switching to the Preset mode screen, see ⑦ in "Radio main screen example" (page @@).*
- *If a preset memory has already been set in the same preset number, it will be cleared and the new station will be memorized.*

Presetting Stations Automatically

The tuner can automatically seek and store 12 strong stations in the selected band in order of signal strength.

Select the desired band then touch and hold [ ] (Auto Memory).
The tuner automatically seeks and stores 12 strong stations into the preset buttons in order of signal strength.
When automatic storing has completed, the station stored in the preset 1 is selected.

- *If no stations are stored, the tuner will return to the original station you were listening to before the automatic storing procedure began.*
- *You can cancel this process by touching [ ] **(Auto Memory)** while the tuner is automatically seeking stations. Canceling will return the tuner preset to the previous setting.*

Tuning to Preset Stations

You can tune in the preset stations in memory on either band using its preset number.

1 Touch [ ].
The radio band select pop up screen is displayed.
- *[ ] button displays the current selected band. (e.g. [FM1])*

2 Select the desired band from FM1/FM2/AM.

3 Touch any one of the Preset numbers you have already stored in the Preset mode screen.
The preset station is received.

- *For details on switching to the Preset mode screen, see ⑦ in "Radio main screen example" (page @@).*

Inputting Frequency Directly and Receiving the Radio Station

You can input a frequency of the same band directly and receive the radio station.

1 **Touch [ ] (Direct Tune).**
The numeric keypad input mode screen appears.

2 **Touch a desired number.**

Touch [ ] to delete an entered number.
Touch **[Delete All]** to delete all entered numbers.

3 **Touch [Enter] on the numeric keypad mode screen to confirm your selection.**
Touch [✕] to hide the keypad display.

Receiving a Multicast (HD Radio Mode only)

Multicasting is the ability to broadcast multiple program streams over a single FM frequency. This increases the amount and diversity of content choices. A maximum of 8 multicast station channels can be selected on this unit.

- *"Multicast" indicator appears when signal reception is possible.*
- *The station number of the current broadcast station appears behind the frequency (ex. 90.3 MHz-HD5 means there are 5 stations on 90.3 MHz).*

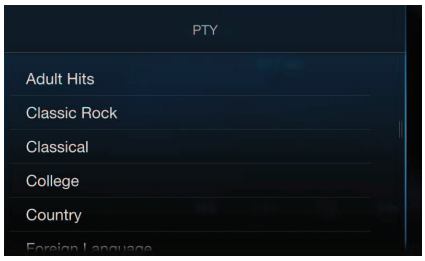
Touch [|◀◀] or [▶▶|].
The sub channel of the received radio station is changed.

- *If reception is lost during SPS broadcasting due to weak or no signal, the screen will display "HDx Signal loss."*

Selecting the Receivable PTY (RBDS FM Radio mode only)

You can select and receive the currently receivable stations in the PTY list screen.

■ PTY list screen example



- *For details on switching to the PTY list screen, see ⑨ in "Preset mode screen example" (page 51).*

Select the desired programme type in the PTY list screen.
PTY Seek starts and the receivable programme type is received.
If no PTY station is found, "No PTY." will be displayed.

- *Touch [◀] or [▶] to select the same programme type station as the currently selected programme type after switching the tuning mode to PTY (PTY Seek) mode.*

Forced Analog Mode

Activate the Compulsory Analog Radio mode to receive only analog radio signals.

Touch [∧∧∧] (Analog).
The **[∧∧∧] (Analog)** button is highlighted. To cancel Compulsory Analog Radio mode, touch **[∧∧∧] (Analog)** again.

- *During Forced Analog mode, only analog broadcasts will be received even when digital broadcasts become available.*
- *While Digital is receiving, the "HD" indicator is displayed.*

Displaying Radio Text (RBDS FM Radio mode only)

Text messages from a radio station can be displayed.

1 **Tune in a radio station that transmits text messages.**

2 **Touch [ⓘ] (Info) in the FM radio mode repeatedly to switch to the desired display.**
Station Info.Mode → Radio Text Mode → Station Info.Mode

Station Info. Mode
PTY/Frequency or PS/Artist Name/Song Name/Album Name

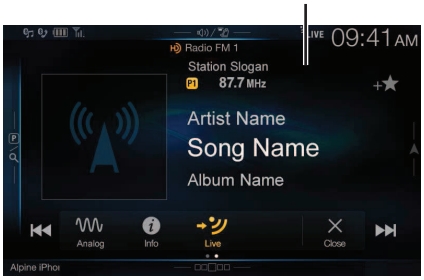
Radio Text Mode
Frequency/Radio Text

Using Ballgame Mode

In live broadcast, such as sportscasts, etc., a time lag occurs between digital sound and analog sound. Therefore, when live broadcasts are received, a time lag between the real broadcast may occur and the unit can change to analog broadcasting automatically.

Touch [→ツ] (Live) to switch On/Off.

LIVE Indicator



The LIVE Indicator is displayed when Ballgame Mode is set to "On."

- *When receiving a live broadcast while the Ballgame mode is on, the LIVE indicator is highlighted.*
  ツLIVE → ツLIVE *(During live broadcast)*

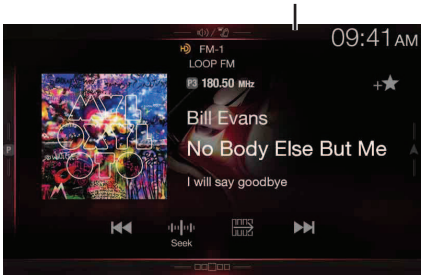
Storing the tag information (HD Radio Mode only)

iTunes Tagging lets you tag songs heard on HD Radio FM stations. You can preview, buy and download later, songs from your iTunes tagged playlist the next time you sync your iPod/iPhone. If the unit is connected to a Tagging compatible iPod/iPhone, you can use the iTunes Tagging function. For details, refer to the Owner's Manual of the Tagging compatible iPod/iPhone.

When Tagging is available, the "Tag" indicator is shown. When a desired song is heard on an HD Radio station, touch [🏷] (Tag) to save its tag information.

- *The [🏷] (**Tag**) button can be selected only when Tagging is available.*

Tag Indicator



If no iPod/iPhone is connected, "Tag Count X" is displayed (X is the total amount of the tag information stored in this unit).

- *During tagging, the iPod/iPhone takes priority to save the tag information. If no iPod/iPhone is connected, the tag information is saved to this unit.*
- *When the memory of iPod/iPhone is full, "iPod memory full." is displayed. The tag information will be stored to the unit.*
- *If the tagging operation is interrupted by a hands-free phone call, the tagging operation will be canceled and the unit will display "Cannot Tag".*
- *This unit can store up to 50 tagged songs. When the memory of the unit is full, "Tag count 50. Tuner memory full. Connect iPod." may be displayed.*
- *When the iPod/iPhone is disconnected from the unit during tagging, its tag information will be stored in the unit.*
- *If there is stored tag information on the unit, when an iPod/iPhone supporting the tag function is connected, the stored tag information will be transferred to the iPod/iPhone automatically. When the iPod/iPhone memory becomes full, "iPod memory full." will be displayed, and any remaining tag information on the unit will not be transferred to the iPod/iPhone.*
- *If tag information already exists, "Already Tagged" will be displayed when you try to tag information again.*

About the Feature Logos

Digital Sound

- Digital, CD-quality sound. HD Radio Technology enables local radio stations to broadcast a clean digital signal. AM sounds like today's FM and FM sounds like a CD.

PSD

- Program Service Data: Contributes to the superior user experience of HD Radio Technology. Presents song name, artist, station IDs, HD2/HD3 Channel Guide, and other relevant data streams.

HD2/HD3

- Adjacent to traditional main stations are extra local FM channels. These HD2/HD3 Channels provide new, original music as well as deep cuts into traditional genre.

iTunes® Tagging

- iTunes® Tagging provides you the opportunity to discover a wide range of content and the means to "tag" that content for later review and purchase from the iTunes® Store.

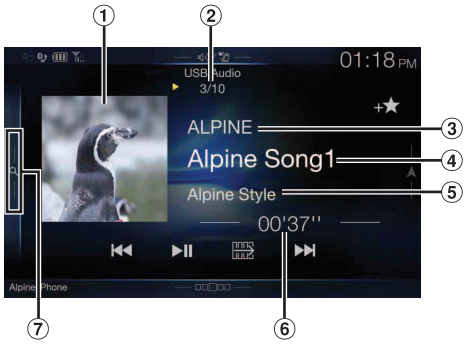
Artist Experience

- Visual information related to content being played on your HD Radio receiver, such as Album Art, historical photographs, still art from live broadcasts, among other related content.

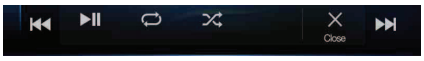
USB Flash drive (Optional)

You can play back music files (MP3/WMA/AAC/FLAC) stored in a USB flash drive on the internal player of this system.

■ USB Audio main screen example



Function mode



① Artwork display
- *You can change the artwork position. For details, see "Switching the Artwork Position" (page 40).*

② Current track no./Total song no.
③ Artist title
④ Song title
⑤ Album title
⑥ Elapsed time
⑦ Quick Search button
Touch or swipe to the right to use the Quick Search mode.

■ Quick Search mode screen example

Swipe vertically in the list to change pages.

⑧ Full Search mode button
Swipe to the right when you use the Full Search mode screen.

Playback

1 Press the ♪ (AUDIO) button to select USB mode.
The display shows the USB mode screen.
- *You can select and change the source in the Menu screen (page 21) or Favorite screen (page 24).*

2 Touch [|◀◀] or [▶▶|] or to select the desired track (file).

Returning to the beginning of the current (or previous) track (file):
Touch [|◀◀].

Fast reverse :
Touch and hold [|◀◀].

Advancing to the beginning of the next track (file) :
Touch [▶▶|].

Fast forward :
Touch and hold [▶▶|].

- *The |◀◀, ▶▶| buttons provide the same functions above.*

3 To pause playback, touch [▶/❚❚].
Touching [▶/❚❚] again will resume playback.
During playback, the [▶] indicator is displayed in Audio main screen. During a pause, the [❚❚] indicator is displayed in the Audio main screen.

- *The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.*
- *If there is tag information, artist name/album name/track name is displayed.*
- *ID3 tag/WMA tag*
  If an MP3/WMA/AAC/FLAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed. (e.g., song name, artist name, and album name)

Repeat Play

1 Touch [🔁].
The Repeat mode select pop up screen is displayed.
- *The [🔁] button displays the currently selected mode.*

2 Select your desired Repeat mode.

Folder 🔁: Only files in a folder are repeatedly played back.
File 🔁: Only the file currently playing is repeatedly played back.
OFF 🔁: Repeat mode Off.

Random Play

1 **Touch [ ].**
The Random Play mode select pop up screen is displayed.
- *The [ ] button displays the currently selected mode.*

2 **Select your desired Random Play mode.**

ALL : All songs in the USB flash drive are played back in random sequence. Any one song does not play back again until all songs have been played back.

Folder : A Folder is selected randomly and songs in the Folder are played back in order. After all songs are played in a Folder, the next Folder is selected randomly.

OFF : Random mode Off.

- *If the Random Play mode is activated during Repeat playback, the Repeat Play mode will be canceled.*
- *If you select a track by using the search mode, the Random Play mode will be canceled.*

Searching for a Desired Song

You can search for your desired song by using one of two modes; the Quick Search mode and the Full Search mode.

Quick Search mode

Touch your desired Folder name or File name.
The selected Folder*1 or File is played.

**1 The first file in the selected folder is played back.*

- *For details on switching to the Quick Search mode, see ⑦ in "USB Audio main screen example" (page 55).*

Full Search mode

Touch your desired Folder name*2 or File name.
When you select a File name, the selected song is played.

When you select a Folder name, repeat the same procedure to select another Folder name or File name.

**2 When you touch the [▶] by a Folder name, the unit plays from the first song in the Folder.*

- *For details on switching to the Full Search mode, see ⑧ in "Quick Search mode screen example" (page 55).*
- *To switch the displayed list or return to the previous page in the Full Search mode, see "About Basic Operation for List Screen" (page 18).*

iPod/iPhone (Optional)

A separately sold USB iPod/iPhone AV cable (KCU-461iV) or a separately sold Lightning to USB cable (KCU-471i) is required depending on the type of iPod/iPhone.
When the unit is connected by the above cable, the controls on the iPod are disabled.

- *This unit does not support video playback from iPhone 5, etc., which uses Apple's Lightning Connector.*
- *Internet or telephone functions, etc., of the iPhone or iPod touch are not controllable from the unit, but these functions can be controlled using the iPhone or iPod touch itself.*
- *To watch the video screen of the file in the iPod/iPhone, the parking brake must be engaged.*
- *For automatic transmission vehicles, place the transmission lever in the Park position.*

About iPod/iPhone models usable with this unit

- The following devices have been tested and shown to work with this unit. Correct function of earlier versions cannot be guaranteed.
  iPod touch 5th generation 32GB/64GB: Ver.7.1.1
  iPod touch 4th generation 8GB/32GB/64GB: Ver.6.1.3
  iPod touch 3rd generation 32GB/64GB: Ver.5.1.1
  iPod touch 2nd generation 8GB/16GB/32GB: Ver.4.2.1
  iPod touch 1st generation 8GB/16GB/32GB: Ver.3.1.3
  iPod nano 7th generation 16GB: Ver.1.0.2
  iPod nano 6th generation 8GB/16GB: Ver.1.2
  iPod nano 5th generation (video camera) 8GB/16GB: Ver.1.0.2
  iPod nano 4th generation (video) 8GB/16GB: Ver.1.0.4
  iPod nano 3rd generation (video) 4GB/8GB: Ver.1.1.3
  iPod classic (Late2009) 160GB: Ver.2.0.4
  iPod classic 120GB: Ver.2.0.1
  iPod classic 80GB/160GB: Ver.1.1.2
- The following devices have been tested and shown to work with this unit. Correct function of earlier versions cannot be guaranteed.
  iPhone 5S 16GB/32GB/64GB: Ver.7.1.1
  iPhone 5C 16GB/32GB/64GB: Ver.7.1.1
  iPhone 5 16GB/32GB/64GB: Ver.7.1.1
  iPhone 4S 16GB/32GB/64GB: Ver.7.1.1
  iPhone 4 16GB/32GB: Ver.7.1.1
  iPhone 3GS 8GB/16GB/32GB: Ver.6.1.3
  iPhone 3G 8GB/16GB: Ver.4.2.1
  iPhone 4GB/8GB/16GB: Ver.3.1.3
- For clarity in identifying your model of iPod, please see Apple's own document "Identifying iPod models" at http://support.apple.com/kb/HT1353.

⚠ WARNING

It is dangerous for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

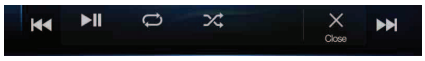
Install the unit correctly so that the driver cannot watch a video unless the car is stopped and the parking brake is applied.

If the unit is not installed correctly, the driver will be able to watch a video while driving and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.

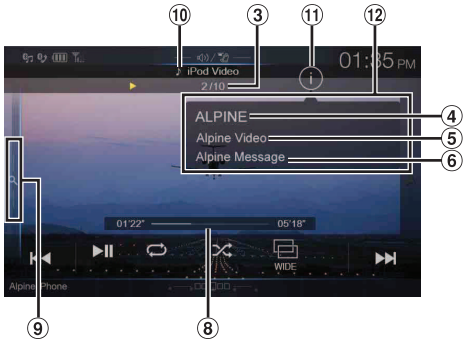
■ iPod/iPhone main screen example

Audio mode

Function mode



Video mode



① Artwork display
- *You can change the artwork position. For details, see "Switching the Artwork Position" (page 40).*

② : During audio-only playback of a video file in a Playlist, the Video icon is displayed.

③ Current song no./Total song no.

④ Artist title/Release Date*
⑤ Song title/Episode title*
⑥ Album title/Podcast title*
⑦ Total time for playing
⑧ Elapsed time
⑨ Quick Search button
Touch or swipe to the right when using Quick Search mode.
⑩ ♪ : During audio-only playback of a music file in a video Playlist, the Music icon is displayed.
⑪ Info mode switching button (Video mode only)
⑫ Info mode display

* *Podcast mode.*

■ Quick Search mode screen example

Swipe vertically in the list to change pages.

⑬ Full Search button
Swipe to the right when using Full Search mode.

The iPod/iPhone operation screen display during video file playback

Touch the screen while the iPod/iPhone playback screen is displayed.
The iPod/iPhone operation screen is displayed.

- *The operation screen changes to the visual screen in the iPod mode for 5 seconds after an operation has been performed.*

Playback

1 Press the ♪ (AUDIO) button to select iPod mode.
The display shows the iPod mode screen.
- *You can select and change the source in the Menu screen (page 21) or Favorite screen (page 24).*

2 Touch [|◀◀] or [▶▶|] or to select the desired track (file).

Returning to the beginning of the current (or previous) track (file):
Touch [|◀◀].

Fast reverse the current track :
Touch and hold [|◀◀].

Advancing to the beginning of the next track (file) :
Touch [▶▶|].

Fast forward the current track :
Touch and hold [▶▶|].

- *The |◀◀, ▶▶| buttons provide the same functions above.*

3 To pause playback, touch [▶/❚❚].

- *If a song is playing on the iPod/iPhone before it is connected to the unit, it will continue playing when it is connected.*
- *An episode may have several chapters. The chapter can be changed by touching [|◀◀] or [▶▶|].*
- *If the artist, album or song name, created in iTunes, has too many characters, songs may not be played back when connected to the unit. Therefore, a maximum of 64 characters is recommended. The maximum number of characters for the unit is 64.*
- *Some characters may not be correctly displayed.*

Searching for a Music File

An iPod/iPhone can contain thousands of songs. For this reason, this unit can make various searches using the search function as shown below.
Using the Playlist/Artist/Album/Podcast/Audiobook/Genre/Composer/Song search mode's individual hierarchy, you can narrow down your search as shown in the table below.

<MUSIC Search Menu>

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
Playlists	Songs	—	—
Artists	Albums	Songs	—
Albums	Songs	—	—
Songs	—	—	—
Podcasts	Episodes	—	—
Genres	Artists	Albums	Songs
Composers	Albums	Songs	—
Audiobooks	—	—	—

Quick Search Mode

In Quick Search mode, the list from the previous search mode is displayed. For example, if the last time you searched for songs was is in Albums, the Album list is displayed. If you have not used the search mode, the list is not displayed in the Quick Search mode. In this case, go to the Full Search mode.

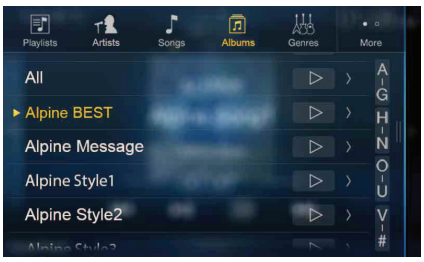
In Quick Search mode, touch the desired list (for example, Album list).
The selected Album is played.

- *To switch into Quick Search mode, see ⑨ in "iPod/iPhone main screen example" (page 57).*
- *To search within an Album, go to the Full Search mode.*

Full Search Mode

For example: Searching by Artist name

The following example explains how an Artists search is performed. Another search mode can be used for the same operation, although the hierarchy differs.



1 **Touch [Artists] in the Full Search mode screen.**
The Artists search screen is displayed.
- *To switch into Full Search mode, see ⑬ in "Quick Search mode screen example" (page 58).*

2 **Select the desired artist.**

To play back the Artist directly

1 Touch [▶] of the artist's name.
All songs of the selected artist are played back.

To search for the Album of the Artist

1 Touch the selected artist name.
The Albums search screen of the selected artist is displayed.
2 Touch [▶] of the desired album's name.
All songs of the selected album are played back.

To search for a Song in the Album of the Artist

1 Touch the desired artist's name.
All albums of the selected artist are displayed.

3 **Touch the desired album's name.**
All songs of the selected album are displayed.

4 **Touch the desired song's name.**
The selected song is played back.

- *Touching [▶] of "All" will play back all songs in the list.*
- *Touching "All" will display the search list in the next hierarchy.*
- *An alphabet skip function is available. See "Alphabet Search Function" (page 59).*
- *To switch the displayed list or return to the previous page in the Full Search mode, see "About Basic Operation for List Screen" (page 18).*

Searching for a Desired Video File

You can select a movie, music video, etc., from the list screen.

- *Video search mode depends on the iPod/iPhone. If the specification of the iPod/iPhone is changed, the search mode on this unit will also be changed.*

■ Examples for the video search mode

- Video Playlists
- Movies
- Music Videos, etc.

For example: Searching by Movie

The following example explains how a Movie search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

1 **Touch the [Video] icon in the Full Search mode screen.**
The Video search screen is displayed.
- *To switch into Full Search mode, see ⑬ in "Quick Search mode screen example" (page 58).*
- *If the Video icon is not displayed, touch [More] to change the Search mode.*

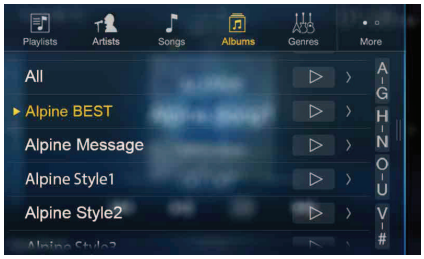
2 **Touch [Movies].**
The Movies search screen is displayed.

3 **Touch the desired movie.**
The selected movie is played back.

Alphabet Search Function

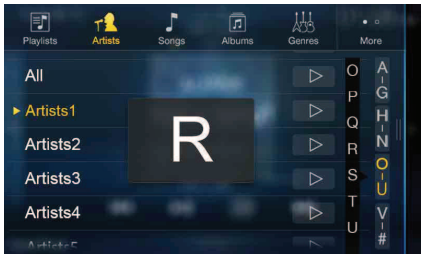
The unit is provided with an alphabet search function for effective searching. When you use this function in the search mode, you can quickly search an artist or a song, etc.
This is an example of how to search Artist Name for names beginning with "R".

1 **Touch "O-U" of the alphabet group.**



"O P Q R S T U" of the alphabet group "O - U" is displayed.

2 **Touch "R" you want to search.**
Artist names beginning with "R" are displayed.



3 **Touch your desired artist name.**

- *If there are no names in the list beginning with that letter, the next letter of the alphabet is searched.*
For example: If there are no names beginning with "R," the search list begins with "S.".