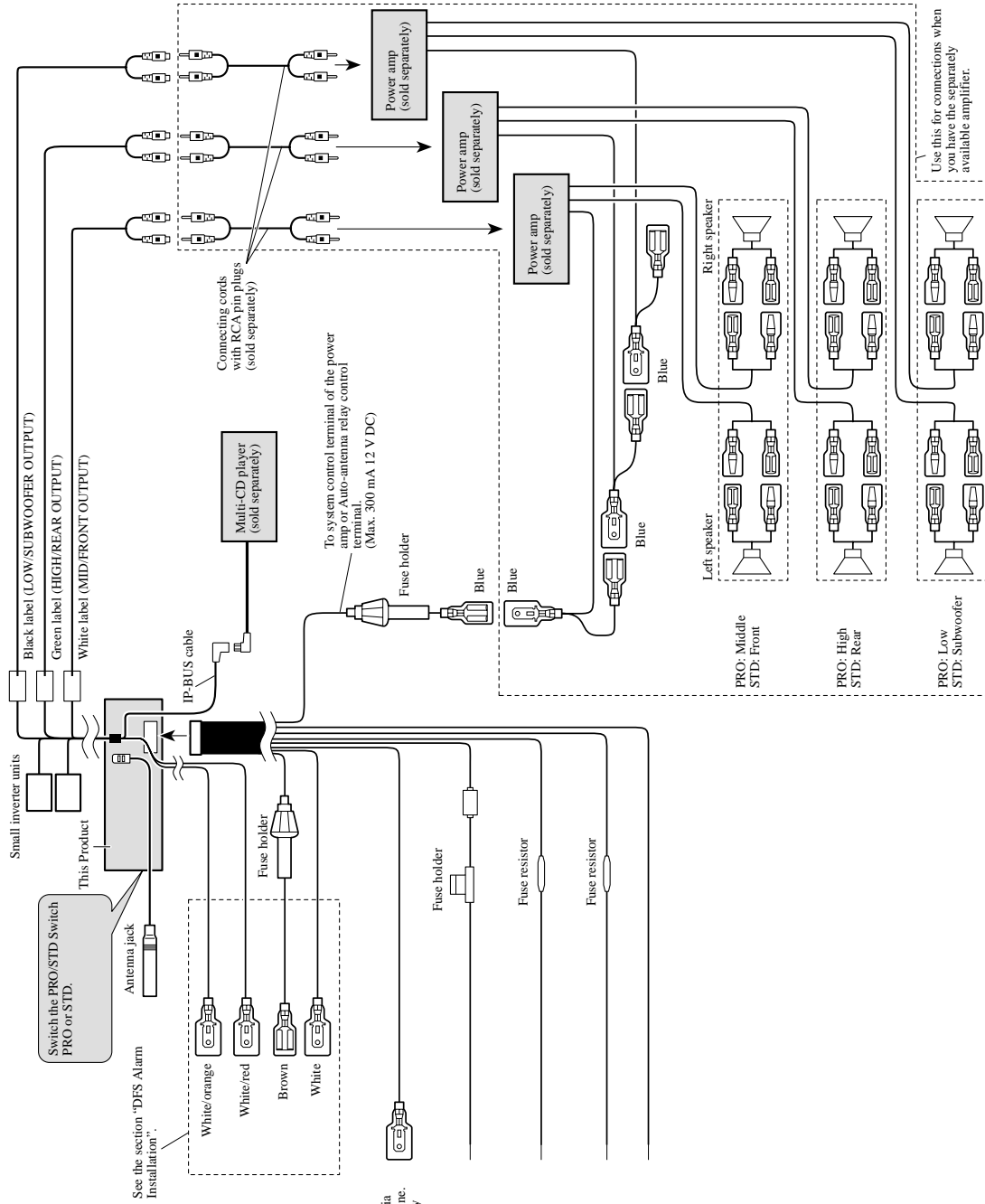


● Connection Diagram (DEX-P1/ES)



See the section "DFS Alarm Installation".

**Yellow/black**  
If you use a cellular telephone, connect it via the Audio Mute lead on the cellular telephone. If not, keep the Audio Mute lead free of any connections.

**Orange**  
To terminal always supplied with power regardless of ignition switch position.

**Red**  
To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

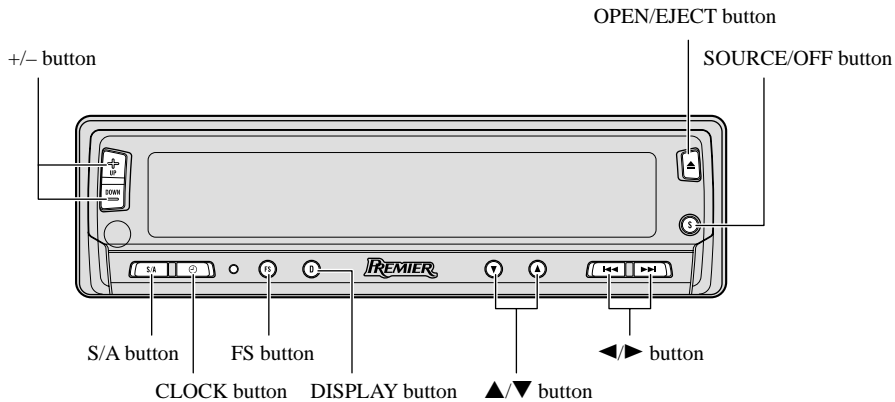
**Yellow**  
To light switch terminal.

**Black (ground)**  
To vehicle (metal) body.

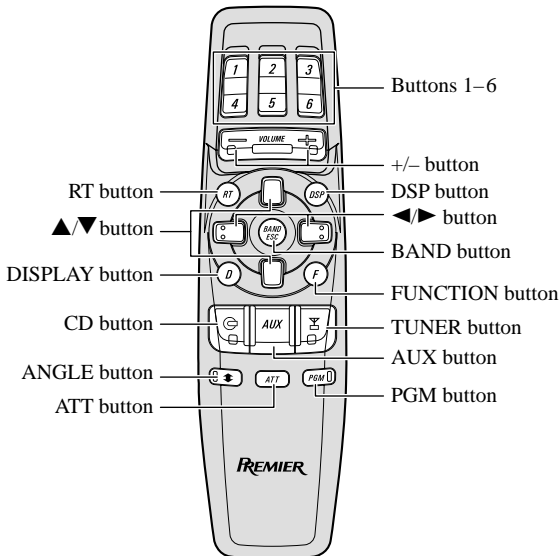
Use this for connections when you have the separately available amplifier.

# Key Finder

## Head Unit

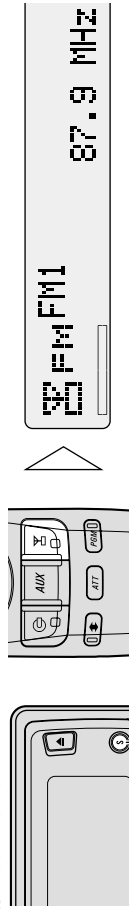


## Remote Controller



### Basic Operation of Tuner

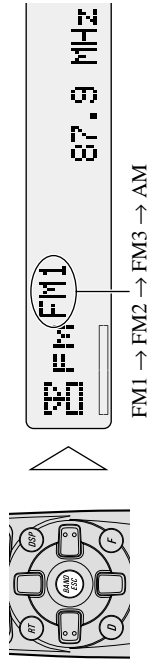
**1. Select Tuner.**



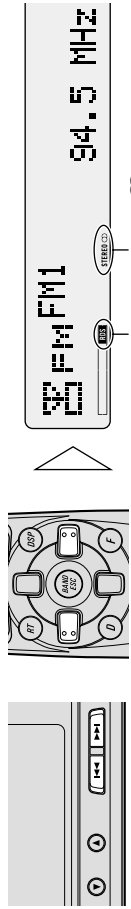
Each press changes the Source ...

The program service name or frequency appears on the display.

**2. Select the desired band.**



**3. Tune the receiver to a higher or lower frequency.**



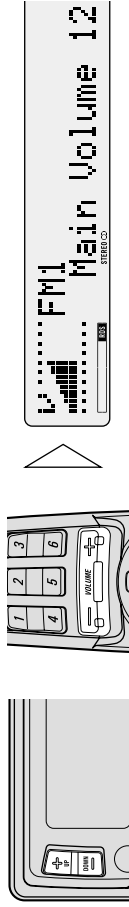
This product's tuner lets you select the tuning by changing the length of the time you press the button.

Manual Tuning (step by step)	0.3 seconds or less
Seek Tuning (automatically)	0.3–2 seconds
Manual Tuning (continuously)	2 seconds or more

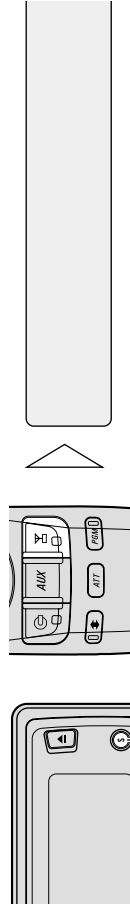
**Note:**

- “STEREO” indicator lights when a stereo station is selected.
- To select a weak broadcasting station that cannot be tuned in with the Seek Tuning function, tune in with Manual Tuning.
- “RDS” indicator lights when a RDS station is received.

**4. Raise or lower the volume.**



**5. Turn the source OFF.**

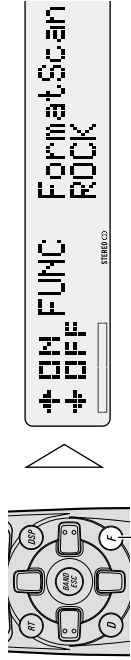


Hold for 1 second

### Entering the Function Menu

In this menu you can select tuner functions.

- **Select the desired mode in the Function Menu.**



Each press changes the Mode ...

Each press of the FUNCTION button selects the mode in the following order:

FormatScan → FRMT-BSM → APF → Multi ST\* → Local → TA\*\* → SeekSelect

- \* You can select the “Multi ST” mode, only when a multi-station is received.
- \*\* During AM reception, you cannot switch to the TA mode.

To cancel the Function Menu, press the BAND button.

**Note:**

- Modes other than the Local mode are for RDS/ID LOGIC functions. Refer to “Using RDS/ID LOGIC” for details and instructions on how to use these functions.
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

This product features a tuner with RDS and ID LOGIC functions. RDS (Radio broadcast Data System) is a system that transmits broadcast station information together with FM programs.

ID LOGIC is a database of information about AM and FM stations throughout the United States and in some parts of Canada and Mexico. To enable you to take advantage of this information, this product features a wide range of functions.

You get display of Broadcast Station Call Sign, Program Service Name and Format (Program type), tuning to stations broadcasting a desired format, automatic tuning to traffic information and emergency broadcasts, and radio text display.

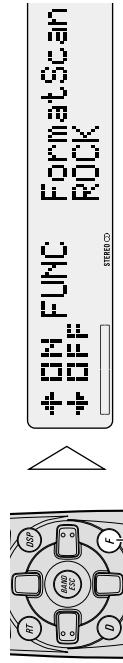
**Note:**

- The RDS service does not provide AM broadcast information.
- The RDS service may not be provided by all FM stations.
- Sections 1 and 2 provide explanations concerning menus for RDS/ID LOGIC operations. Sections 3 to 10 explain basic operations, and Sections 11 to 14 deal with special functions.
- Before using RDS/ID LOGIC functions, you must first perform Location Set-up.

## 1. Entering the Function Menu

In this menu you can select RDS/ID LOGIC functions.

- **Select the desired mode in the Function Menu.**



Each press changes the Mode ...

Each press of the FUNCTION button selects the mode in the following order:

Format Scan → FRMT-BSM → APF → Multi ST\* → Local\*\* → TA → Seek Select

- \* You can select the "Multi ST" mode, only when a multi-station is received.
- \*\*LOCAL is a normal tuner function.

To cancel the Function Menu, press the BAND button.

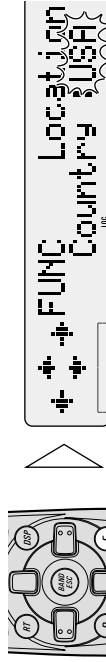
**Note:**

- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

## 2. Entering the Detailed Setting Menu

In this menu you can perform Location Set-Up, Update and PGM button settings.

- **Enter the Detailed Setting Menu.**



Hold for 2 seconds

Each press of the FUNCTION button selects the mode in the following order:

Location → SET APF → Relocation → Update → PGM-key

To cancel the Detailed Setting Menu, press the BAND button.

**Note:**

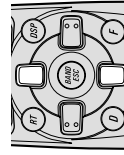
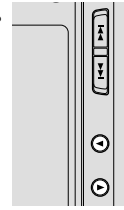
- You can cancel the Detailed Setting Menu by pressing the FUNCTION button again for 2 seconds or more.

## 3. Location Set-Up

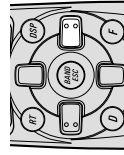
Set the name of the country, state and city (nearest city to the vehicle position) that the vehicle is positioned in.

1. **During FM reception, select the Location Set-Up mode (Location) from the Detailed Setting Menu.**

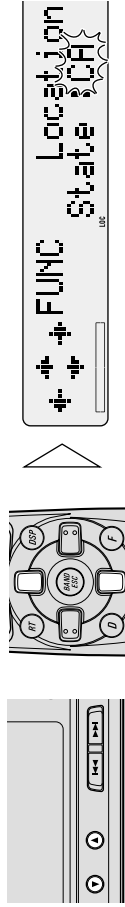
2. **Select the country.**



3. **Advance to next selection.**

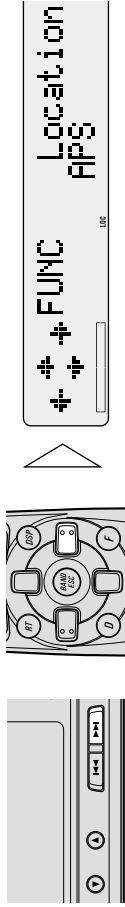


**4. Select the state.**

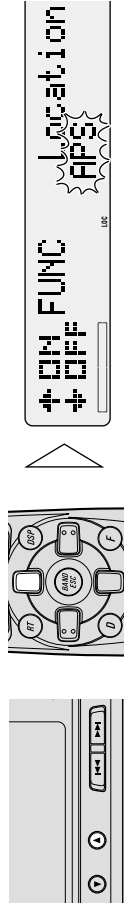


States are stored alphabetically.

**5. Advance to next selection.**



**6. Using the APS (Auto Position Setting) function, automatically set the city the vehicle is located in.**

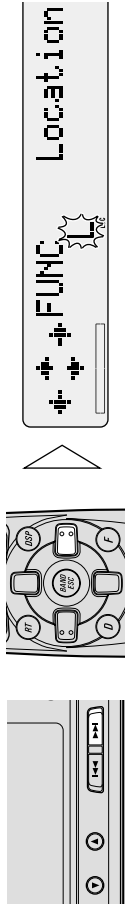


When you have completed APS, the city name flashes in the display.



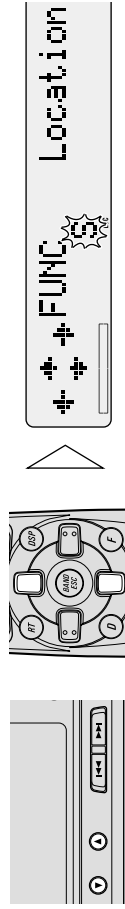
When you have correctly set the city name, perform procedure 10 to cancel the Location Set-Up mode.  
If you have not correctly set the city name, perform procedure 7 to set the name manually.

**7. Manually set the city.**

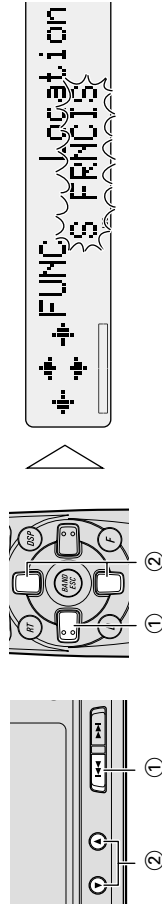


The initial letters of city names are displayed for city name selection.

**8. Select the initial of the city name.**

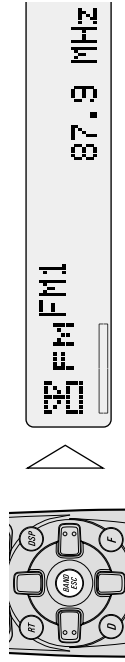


**9. Select the city.**



Cities are stored alphabetically.

**10. When the correct city has been selected, cancel the Location Set-Up mode.**

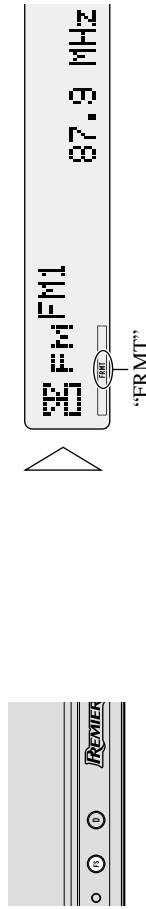


## 4. Format Tuning

This product allows you to look for a station by format (program type). Formats are divided into 8 types, such as ROCK, COUNTRY, NEWS and TALK.

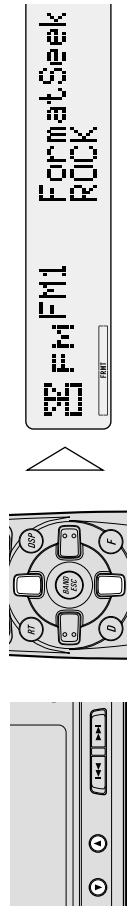
Group Formats	Corresponding Formats
ROCK	TOP 40 CLS ROCK ROCK SFT ROCK
EASY LIS	SOFT ADLT HIT OLDIES
CLS/JAZZ	CLASSICL JAZZ NOSTALGA PUBLIC
COUNTRY	COUNTRY
R and B	R AND B
INFO	SOFT R/B SPORTS NEWS TALK
RELIGION	INFORM PERSNLTY REL MUSC
MISC	REL TALK LANGUAGE MISC

### 1. Switch to the "Format" station selection mode.



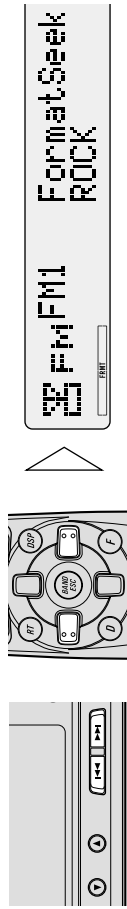
Each press of the FS button changes the method in the following order:  
Format → Frequency

### 2. Select a group format.



A station broadcasting a program with a different group format from the format of the currently received broadcast station is selected. Press the ▲ button to select stations with the next group format, and the ▼ button to select stations with the preceding group format.

### 3. Select a station.



A station broadcasting a program with the same group format as the currently received broadcast station is selected.

Press the ▲ button to select a station with a higher frequency and the ▼ button to select a station with a lower frequency.

#### Note:

- If you perform operation 3 during reception of a broadcast station with no format data, "NO FORMAT" is displayed. The tuner then returns to the prior frequency.
- "NO STATION" is displayed if no station with the selected group format can be received. The tuner then returns to the prior frequency.
- If the set vehicle location is different from the current location, the selected group format and the format of the program may differ.
- You can also switch the station selection mode when in the Function Menu Seek Select mode.

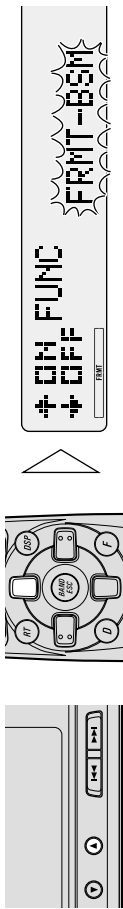
## Using RDS/ID LOGIC

### 5. F. BSM (Format Best Stations Memory)

This function automatically places receivable stations into presets 1–6, in order from strongest to weakest, for a selected group format.

Firstly, choose your desired group format as described in “Format Tuning”.

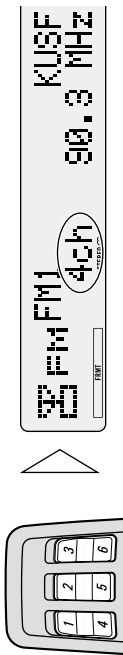
1. Select the **F. BSM mode (FRMT-BSM)** in the **Function Menu**.
2. Start **F. BSM**.



To cancel F. BSM midway, press the **▶** button.

When F. BSM is completed, “FRMT-BSM” in the display stops flashing.

3. Select a **preset station by pressing one of buttons 1–6**. (eg. Press button 4.)



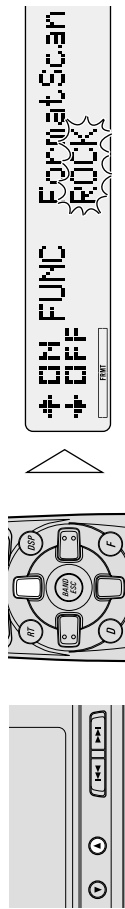
#### Note:

- In areas where there are not 6 or more stations covered by format tuning, the previously stored contents may be retained.
- If “MS” is displayed, refer to the “1. Multi-Station” section.

### 6. F. SCAN (Format Scan)

This function allows you to scan receivable stations with the same format type as that of the present station that you are listening to.

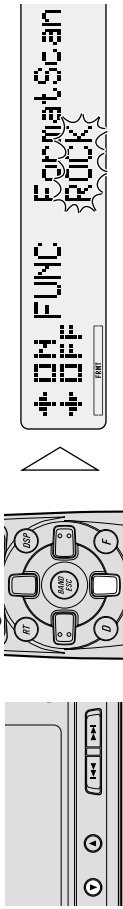
1. Select the **F. SCAN mode (Format Scan)** in the **Function Menu**.
2. Start **F. SCAN**.



Stations with the same format are tuned one after another at 8 second intervals.

3. Cancel the scan function enables you to remain tuned to the present station.

If the Function Menu has been canceled automatically, select the F. SCAN mode in the Function Menu again.

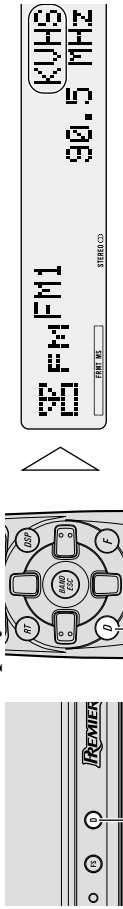


To cancel the Function Menu, press the **BAND** button.

### 7. Display Modes

This function can be used to scroll through the various display modes for Call Sign, Program Service Name and Format.

- Select the **desired display mode**.



Each press changes the Display ...  
Each press changes the Display ...

Each press of the **DISPLAY** button changes the display in the following order:

Call Sign (Callsign) → Program Service Name (PS) → Format (Format)

#### Note:

- You cannot switch to these displays if Call Sign, Program Service Name and Format data for the station you are receiving are not stored in the tuner.
- Program Service Name is RDS service data, so it is not displayed during AM reception.
- If the set vehicle position is different from the current location, a different Format and Call Sign from those of the tuned-in station may be displayed.
- The program of some stations may differ from that indicated by their Format.

## 8. TA Function

The TA (Traffic Announcement standby) function lets you receive traffic announcements automatically, no matter what source (tuner, built-in CD player or multi-CD player) you are listening to. The TA function can be activated for a TP station (a station that broadcasts traffic information).

**Note:**

- The TA function uses RDS service data, so it does not operate during AM reception.

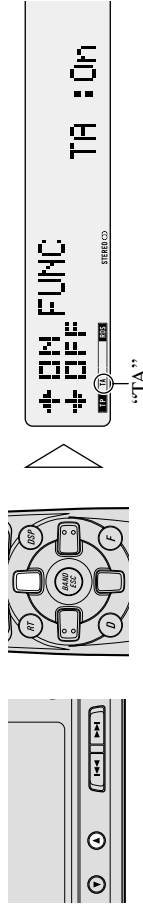
### Activating/Deactivating the TA Function

**1. Tune in a TP station.**

The “TP” indicator lights when the tuner is tuned to a TP station.

**2. Select the TA mode (TA) in the Function Menu.**

**3. Activate the TA function.**



The “TA” indicator lights, indicating that the tuner is waiting for traffic announcements.

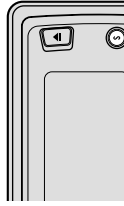
Repeat the preceding operation when no traffic announcement is being received to deactivate the TA function.

**Note:**

- You can also switch the TA Function ON/OFF in the Function Menu.
- The system switches back to the original source following traffic announcement reception.
- The TA function can be activated from the built-in CD player or multi-CD player mode if the tuner was last set to the FM band but not if it was last set to the AM band.
- In the built-in CD player or multi-CD player mode, the tuner automatically seeks out the TP station with the strongest signal in the current area 10 seconds after “TP” disappears from the display. (During seek operation, “TP” flashes.)

### Canceling Traffic Announcements

- Press the SOURCE/OFF button while a traffic announcement is being received to cancel the announcement and return to the original source.

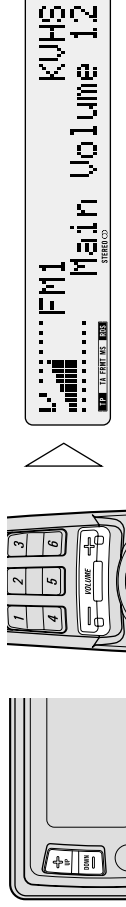


The announcement is canceled but the tuner remains in the TA mode until the TA function is deactivated.

### Adjusting the TA Volume

When a traffic announcement begins, the volume adjusts automatically to a preset level to enable you to hear the announcement clearly.

- Set the volume by adjusting it during reception of a traffic announcement.



The newly set volume is stored in memory and recalled for subsequent traffic announcements.

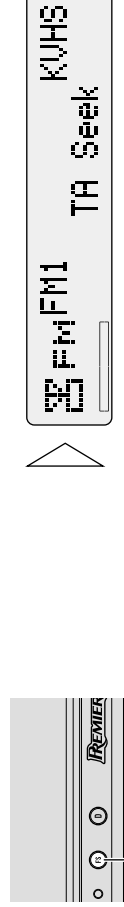
**Note:**

- Volume Attenuator is canceled if a traffic announcement is received in the Volume Attenuator mode.

### TA SEEK

TA seek automatically searches for and receives stations currently broadcasting Traffic Announcements.

- Reception of stations currently broadcasting Traffic Announcements.



Hold for 2 seconds

**Note:**

- If the tuner cannot receive a station currently broadcasting a Traffic Announcement, “NO STATION” is displayed. The tuner then returns to the prior frequency.



## 9. PTY Alarm

The PTY Alarm function automatically lets you hear broadcasts of emergency announcements concerning natural disasters and other emergencies, regardless of the source you are listening to (tuner, built-in CD player or multi-CD player).

You can take advantage of the PTY Alarm function by tuning to an FM RDS station.

### 1. Tune in a RDS station.

The "RDS" indicator lights when the tuner is tuned to a RDS station.

### 2. If the tuner receives a radio alarm code, "ALARM" is indicated in the display, and the tuner switches to reception of an emergency announcement.

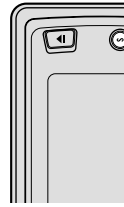


#### Note:

- The system switches back to the original source following emergency announcement reception.
- In the built-in CD player or multi-CD player mode, the tuner automatically seeks out the RDS station with the strongest signal in the current area 10 seconds after RDS station reception has become impossible. (This function does not operate when the TA function is active.)

## Canceling Emergency Announcements

- Press the SOURCE/OFF button during emergency announcement reception to cancel the announcement and return to the original source.



## 10. Radio Text

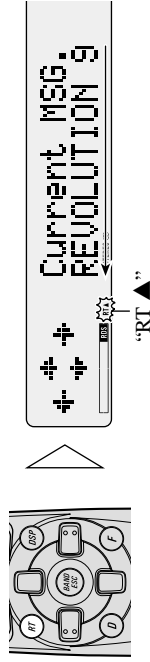
This tuner can display Radio Text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist.

#### Note:

- When Radio Text is received, the "RT ▲" indicator lights.
- The tuner automatically memorizes the three latest Radio Text broadcasts received, replacing text from the least recent reception with new text when it is received.
- You can store data from up to four Radio Text transmissions in buttons 1–4.

## Radio Text display

### 1. Switch to the Radio Text mode.



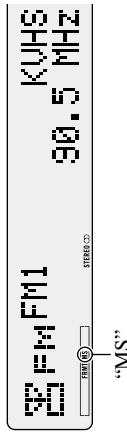
Radio Text data currently being received is automatically scrolled in the display.

#### Note:

- Press the RT button once more, and the Radio Text mode is canceled.
- The Radio Text mode is canceled after text data has been scrolled through twice in the display.
- When no Radio Text is currently being received, "NO TEXT" is displayed, and the Radio Text mode is canceled after 5 seconds.

## 11. Multi-Station

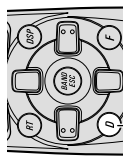
When "MS" is displayed, this indicates there are a number of stations having the same broadcasting frequency stored in the ID Logic database. For example, if you have performed Format Tuning; you may be listening to a station with a different format type than which you chose.



- Display Call Sign and Format indications, and confirm that Call Sign and Format agree with those of the program being broadcast.



Each press changes the Display ...



Each press

changes the Display ...



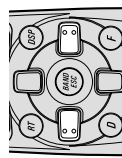
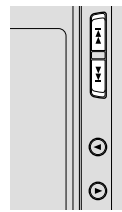
### Note:

- If the format of the program differs from the format you want to listen to, perform Format Tuning, F, BSM or F, SCAN again.
- If the Call Sign and Format do not agree with those of the program, display indications change.

## Changing Multi-Station Format

1. Select the Multi-Station mode (Multi ST) in the Function Menu.

2. Select Format.



Pressing the button switches the Format of the station broadcasting on the frequency currently being received. Select the appropriate Format for the broadcast.

To cancel the Function Menu, press the BAND button.

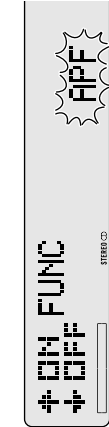
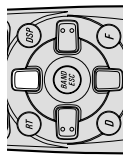
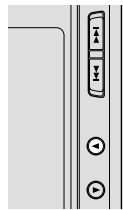
## 12. APF (Auto Position Following)

### When the source is the tuner

When you drive away from the city vicinity to which the vehicle's location has been set to, the quality of the received station broadcast will deteriorate. Before searching for a new station, you must first update your vehicle's position.

1. Select the APF start mode (APF) in the Function Menu.

2. Start APF.



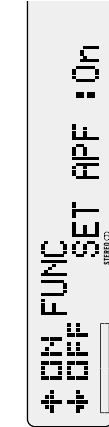
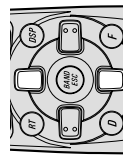
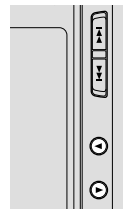
To cancel the Function Menu, press the BAND button.

### When the source is a component other than the tuner

Your vehicle's position can be automatically updated at regular intervals when listening to a source other than tuner eg. CD; if APF has been turned on.

1. Select the APF ON/OFF mode (SET APF) in the Detailed Setting Menu.

2. Switch APF ON or OFF.

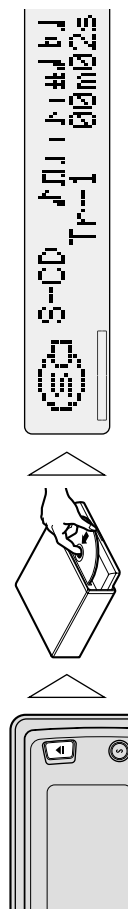


To cancel the Detailed Setting Menu, press the BAND button.

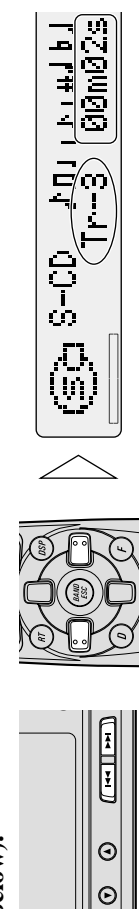
### Basic Operation of the Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing an 8 cm CD.

1. **Open the front panel and insert the disc with the label side up.**



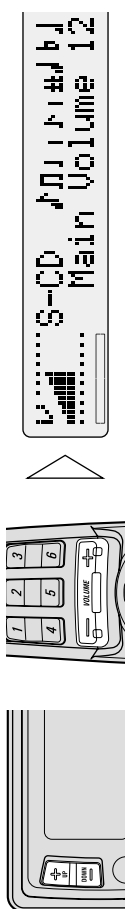
2. **Select the desired track (or fast-forward/reverse, per the chart below).**



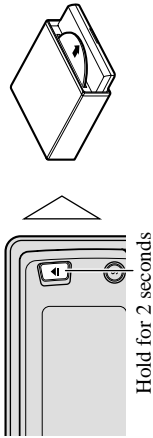
This product's built-in CD player lets you select the Track Search function or Fast-forward/Reverse function by changing the length of time you press the button.

Track Search	0.5 seconds or less
Fast-forward/Reverse	Continue pressing

3. **Raise or lower the volume.**



### 4. Remove the disc.



Hold for 2 seconds

Be sure to close the front panel after removing the disc.

**Note:**

- The CD function can be turned ON/OFF with the disc remaining in this product.
- Discs left partially inserted after ejection may incur damage or fall out.
- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down, hold down the OPEN/EJECT button for 2 seconds or more and check the disc for damage before reinserting it.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display.

### Switching the Display (only for CD TEXT Discs)

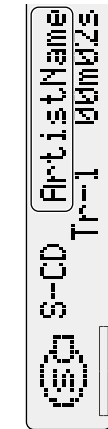
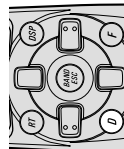
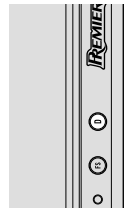
You can use this function when playing a CD TEXT disc.

**Note:**

- A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title.

### Selecting the Display

- **Select the desired display.**



Each press of the DISPLAY button changes the display in the following order:

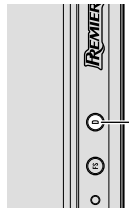
Disc Title → Artist Name → Track Title

## Using the Built-in CD Player

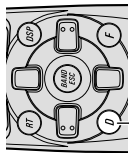
### Scrolling the Display

This unit displays the first 10 letters only of Disc Title, Artist Name and Track Title. With text longer than 10 letters, you can see the rest of the text by scrolling.

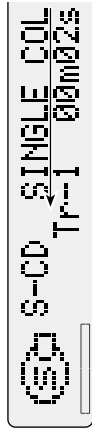
- **Scroll the display.**



Hold for 2 seconds



Hold for 2 seconds



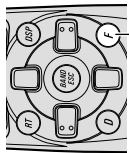
#### Note:

- You cannot input a disc title with a CD TEXT disc.

### Entering the Function Menu

In this menu you can select built-in CD player functions.

- **Select the desired mode in the Function Menu.**



Each press changes the Mode ...



Each press of the FUNCTION button selects the mode in the following order:

Repeat → Random → Scan → Pause → COMP and DBE

To cancel the Function Menu, press the BAND button.

#### Note:

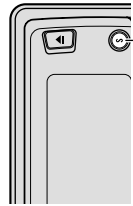
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

## Using Multi-CD Players

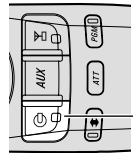
This product can control one or more multi-CD players. (There are some types of Multi-CD players such as the "CDX-P636" which enable connection of a single unit only.)

### Basic Operation of Multi-CD Players

1. **Select the multi-CD player source.**



Each press changes the Source ...

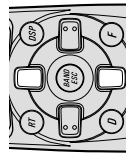


Each press changes the Source ...

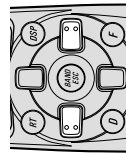
#### Note:

- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, "NO DISC" is displayed.

2. **Select the desired disc.**



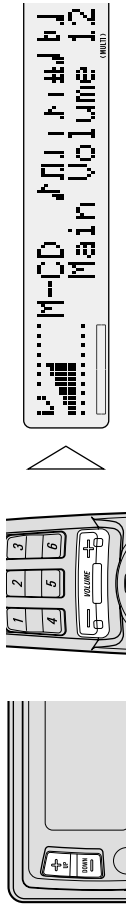
3. **Select the desired track (or fast-forward/reverse, per the chart below).**



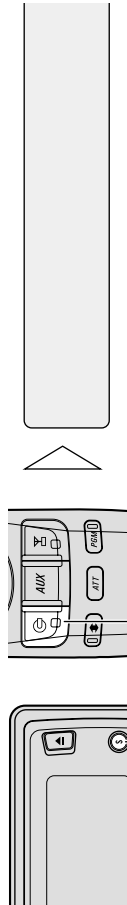
This product lets you select the track search function or fast-forward/reverse function by changing the length of time you press the button.

Track search	0.5 seconds or less
Fast-forward/Reverse	Continue pressing

4. Raise or lower the volume.



5. Turn the source OFF.



Each press changes the Source ...

Hold for 1 second

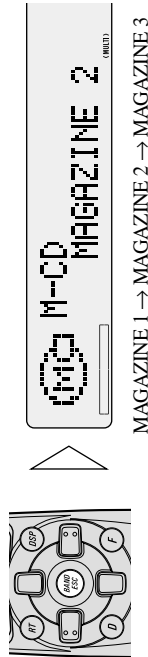
### Playing Discs on a 50-Disc Type Multi-CD Player

When a magazine is loaded into a 50-Disc type multi-CD player, information on all the discs in the magazine is read. If you start playing a disc on a 50-Disc type multi-CD player before reading of information on all discs has been completed, reading of information stops part way through. This will prevent you from using a number of functions. (If you try and use these functions, "NOT READY" is displayed.) If this happens, reading of information begins again when you switch to a component other than 50-Disc type multi-CD player.

### Switching the Multi-CD Player

It is possible to connect up to three multi-CD players by means of a multiple installation adapter. When two or more multi-CD players are installed, their priorities must be specified. Follow the multi-CD player instructions carefully, and set the address switches properly.

- **Select the multi-CD player you want to use.**



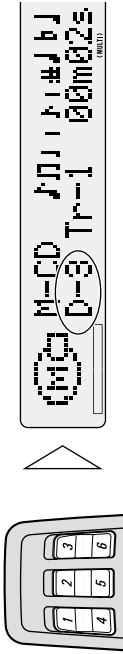
### Disc Number Search

#### Disc Number Search (for 6-Disc 12 -Disc types)

You can select discs directly with the 1–6 buttons. Just press the number corresponding to the disc you want to listen to.

**Note:**

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1–6 buttons for 2 seconds or longer.
- **Select the desired disc. (e.g. Press button 3.)**



#### Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1–5 buttons. The 50 discs are divided into five blocks, with each of the 1–5 buttons assigned to a block. For example, if you press button 1, discs 10 through 19 are searched in order, and then the disc with the lowest disc number is selected.

**Note:**

- Pressing button 5 lets you select the 50th disc only.
- Button 6 does not operate.
- Rough search of discs 1 to 9 is not possible. Use the ▲/▼ buttons to select a desired disc.
- "NOW LOADING" will be displayed in the following cases:
  - \* If the disc in the extra tray is selected.
  - \* If the disc is moved from the extra tray to the magazine. (Refer to the 50-Disc type multi-CD player's owner's manual.)

## 8.2 SPECIFICATIONS

### ● DEX-P1R/UC

#### General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)  
 Grounding system ..... Negative type  
 Max. current consumption ..... 4 A  
 Dimensions  
 (DIN) (chassis) ..... 178 (W) × 50 (H) × 155 (D) mm  
     [7 (W) × 2 (H) × 6-1/8 (D) in]  
 (nose) ..... 188 (W) × 58 (H) × 20 (D) mm  
     [7-3/8 (W) × 2-1/4 (H) × 3/4 (D) in]  
 (D) (chassis) ..... 178 (W) × 50 (H) × 160 (D) mm  
     [7 (W) × 2 (H) × 6-1/4 (D) in]  
 (nose) ..... 170 (W) × 46 (H) × 15 (D) mm  
     [6-3/4 (W) × 1-7/8 (H) × 5/8 (D) in]  
 Weight ..... 1.8 kg (4.0 lbs)

#### Preout

Maximum preout output level ..... 4 V  
 Preout impedance ..... less than 100 Ω

#### CD player

System ..... Compact disc audio system  
 Usable discs ..... Compact disc  
 Signal format ..... Sampling frequency: 44.1 kHz  
     Number of quantization bits: 16; linear  
 Frequency characteristics ..... 5 – 20,000 Hz  
 Signal-to-noise ratio ..... 120 dB (1 kHz) (IHF-A network)  
 Dynamic range ..... 98 dB (1 kHz)  
 Number of channel ..... 2 (stereo)

#### DSP

Equalizer (13 Band Graphic Equalizer)  
 Frequency ..... 50, 80, 125, 200, 315, 500, 800,  
     1.25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)  
 Level ..... ± 12 dB (2 dB)  
 Auto Equalizer (STD Mode)  
 Front and Rear and Subwoofer: 13 band graphic +  
 Rear 2 band parametric  
 Frequency (Front and Rear and Subwoofer)  
     ..... 50, 80, 125, 200, 315, 500, 800,  
     1.25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)  
 Frequency (Rear) ..... 100 Hz – 8 kHz (1/3 oct)  
 Level ..... +6 — -12 dB (2 dB)  
 Q Factor (Rear) ..... 1.2, 3.6  
 Auto Equalizer (PRO Mode)  
 (13 band graphic)  
 Frequency ..... 50, 80, 125, 200, 315, 500, 800,  
     1.25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)  
 Level ..... +6 — -12 dB (2 dB)  
 Network (STD Mode)  
 Front/Rear ..... HPF frequency: 50, 80, 125, 200 (Hz)  
     Slope: 0, -6, -12 dB/oct  
     Level: 0 — -24 dB (1 dB)  
 Subwoofer (Mono)  
     ..... LPF frequency: 50, 63, 80, 100,  
     125, 160, 200 (Hz)  
     Slope: -6, -12, -18 dB/oct  
     Level: +6 — -24 dB (1 dB)  
     Phase: Normal/Reverse

#### Network (PRO Mode)

High ..... HPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k,  
     6.3 k, 8 k, 10 k, 12.5 k (Hz)  
     Slope: -6, -12, -18, -24 dB/oct  
     Level: +6 — -24 dB (1 dB)  
     Phase: Normal/Reverse  
 Mid ..... LPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k,  
     6.3 k, 8 k, 10 k, 12.5 k (Hz)  
     HPF frequency: 40, 50, 63, 80, 100, 125,  
     160, 200, 250 (Hz)  
     Slope: 0, -6, -12, -18, -24 dB/oct  
     Level: 0 — -24 dB (1 dB)  
     Phase: Normal/Reverse  
 Low (Stereo/Mono)  
     ..... LPF frequency: 40, 50, 63, 80, 100,  
     125, 160, 200, 250 (Hz)  
     Slope: -12, -18, -24, -30, -36 dB/oct  
     Level: +6 — -24 dB (1 dB)  
     Phase: Normal/Reverse  
 Time Alignment ..... 0 — 160 inch (0.5 inch)

#### Note:

- Specifications and the design are subject to possible modification without notice due to improvements.

## ● DEH-P946/ES, DEX-P1/ES

### General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)  
 Grounding system ..... Negative type  
 Max. current consumption (DEH-P946/ES) ..... 10 A  
 Max. current consumption (DEX-P1/ES) ..... 4 A  
 Dimensions  
 (DIN) (chassis) ..... 178 (W) × 50 (H) × 155 (D) mm  
 (nose) ..... 188 (W) × 58 (H) × 20 (D) mm  
 (D) (chassis) ..... 178 (W) × 50 (H) × 160 (D) mm  
 (nose) ..... 170 (W) × 46 (H) × 15 (D) mm  
 Weight ..... 1.8 kg

### Amplifier (DEH-P946/ES)

Continuous power output is 20 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.  
 Maximum power output ..... 40 W × 4  
 Load impedance ..... 4 Ω (4 – 8 Ω allowable)  
 Preout output level/output impedance ..... 500 mV/1 kΩ

### Preout (DEX-P1/ES)

Maximum preout output level ..... 4 V  
 Preout impedance ..... less than 100 Ω

### CD player

System ..... Compact disc audio system  
 Usable discs ..... Compact disc  
 Signal format ..... Sampling frequency: 44.1 kHz  
 Number of quantization bits: 16; linear  
 Frequency characteristics ..... 5 – 20,000 Hz  
 Signal-to-noise ratio .... 112 dB (1 kHz) (IEC-A network) (DEH-P946/ES)  
 Signal-to-noise ratio .... 120 dB (1 kHz) (IEC-A network) (DEX-P1/ES)  
 Dynamic range ..... 98 dB (1 kHz)  
 Number of channel ..... 2 (stereo)

### FM tuner

Frequency range ..... 87.5 – 108 MHz  
 Usable sensitivity ..... 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)  
 50 dB quieting sensitivity .... 16 dBf (1.7 μV/75 Ω, mono)  
 Signal-to-noise ratio ..... 70 dB (IEC-A network)  
 Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)  
 Frequency response ..... 30 – 15,000 Hz (±3 dB)  
 Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

### AM tuner

Frequency range ..... 531 – 1,602 kHz (9 kHz)  
 530 – 1,710 kHz (10 kHz)  
 Usable sensitivity ..... 18 μV (S/N: 20 dB)  
 Selectivity ..... 50 dB (±9 kHz)  
 50 dB (±10 kHz)

### DSP

Equalizer (13 Band Graphic Equalizer)  
 Frequency ..... 50, 80, 125, 200, 315, 500, 800, 1,25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)  
 Level ..... ± 12 dB (2 dB)  
 Auto Equalizer (STD Mode)  
 (Front and Rear and Subwoofer 13 band graphic + Rear 2 band parametric)  
 Frequency (Front and Rear and Subwoofer) ..... 50, 80, 125, 200, 315, 500, 800, 1,25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)  
 Frequency (Rear) ..... 100 Hz – 8 kHz (1/3 oct)  
 Level ..... +6 – –12 dB (2 dB)  
 Q Factor (Rear) ..... 1.2, 3.6  
 Auto Equalizer (PRO Mode)  
 (13 band graphic)  
 Frequency ..... 50, 80, 125, 200, 315, 500, 800, 1,25 k, 2 k, 3.15 k, 5 k, 8 k, 12.5 k (Hz)  
 Level ..... +6 – –12 dB (2 dB)  
 Network (STD Mode)  
 Front/Rear ..... HPF frequency: 50, 80, 125, 200 (Hz)  
 Slope: 0, –6, –12 dB/oct  
 Level: 0 – –24 dB (1 dB)  
 Subwoofer (Mono)  
 ..... LPF frequency: 50, 63, 80, 100, 125, 160, 200 (Hz)  
 Slope: –6, –12, –18 dB/oct  
 Level: +6 – –24 dB (1 dB)  
 Phase: Normal/Reverse

### Network (PRO Mode)

High ..... HPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k, 6.3 k, 8 k, 10 k, 12.5 k (Hz)  
 Slope: –6, –12, –18, –24 dB/oct  
 Level: +6 – –24 dB (1 dB)  
 Phase: Normal/Reverse  
 Mid ..... LPF frequency: 2 k, 2.5 k, 3.15 k, 4 k, 5 k, 6.3 k, 8 k, 10 k, 12.5 k (Hz)  
 HPF frequency: 40, 50, 63, 80, 100, 125, 160, 200, 250 (Hz)  
 Slope: 0, –6, –12, –18, –24 dB/oct  
 Level: 0 – –24 dB (1 dB)  
 Phase: Normal/Reverse  
 Low (Stereo/Mono)  
 ..... LPF frequency: 40, 50, 63, 80, 100, 125, 160, 200, 250 (Hz)  
 Slope: –12, –18, –24, –30, –36 dB/oct  
 Level: +6 – –24 dB (1 dB)  
 Phase: Normal/Reverse  
 Time Alignment ..... 0 – 400 cm (2 cm)  
 0 – 160 inch (0.5 inch)

### Note:

- Specifications and the design are subject to possible modification without notice due to improvements.