OWNERS MANUAL MODEDER MARCH

Thank you for purchasing this PIONEER product Regions at empting operation, be sure to read this manual.

Nous yous remercions d'avoir acreté ret appareit PIONEER Avant de l'utiliser prendre soin de line de manuel.

Dank 13 zees voorde aanschaff landit PIONEER bjodukt. Lees deze gebruikseamwijzing goed door, yoordat het loestel in ge Bruik genomen wordt.

Muchas gracias porta adquisición de este producto PIONEER. Antes de tratar de operation les atentamento este manual.



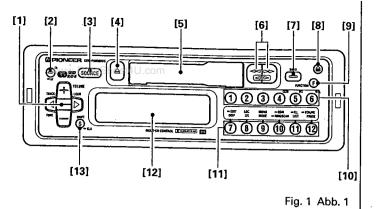
KEH P6000RDS



ENGLISH

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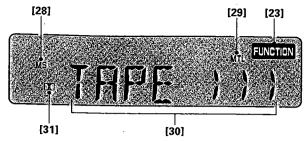


Fig. 3 Abb. 3

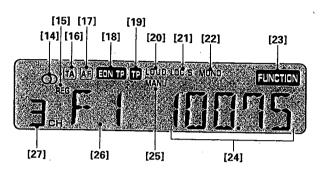


Fig. 2 Abb. 2

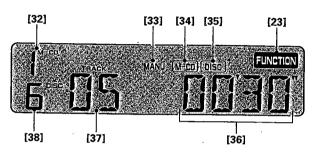


Fig. 4 Abb. 4

Composition of Manual

This manual applies to the KEH-P6000RDS and KEH-5800RDS, KEH-5200RDS, KEH-52RN. However, the illustrations show the KEH-P6000RDS. The KEH-5800RDS KEH-5200RDS and KEH-52RN have following features which differ to the KEH-P6000RDS.

KEH-5800RDS

3

- · The music search function is not available.
- Multi-play CD players and other audio equipment (AUX) cannot be connected.

KEH-5200RDS, KEH-52RN

- Illumination color cannot be switched.
- The music search function is not available.
- The Dolby B NR function is not available.
- The tape selector function is not available.
- Multi-play CD players and other audio equipment (AUX) cannot be connected.

Precautions

- The "Pioneer CarStereo-Pass" can be used only in Germany.
- If the car's battery is disconnected for any reason, the preset memory will be erased and must be reprogrammed after reconnection of the battery.

In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station. Never remove the top case of the unit to attempt check or repairs.

Using the Removable Front Panel

Parts Identification

Fig. 1

[4] Eject

[6] Fast forward, Rewind/Direction change

[8] Detach button

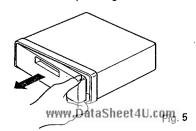
[10] 3 Buzzer ON/OFF

The front panel of this unit can be removed as a theft deterrent.

Also, to prevent forgetting to remove the front panel, 5 seconds after the ignition is turned off, if the front panel is still attached, a buzzer will sound for a few seconds. If you wish to cancel the sound of the buzzer, please do as follows. Hold down button ③ in [10] and turn the ignition on. By repeating this procedure, the sound of the buzzer will be restored.

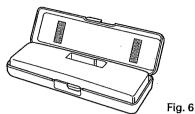
Detaching the Front Panel

- 1.Press button [8], and the right-hand side of the panel will eject.
- 2.To remove the front panel, pull its righthand side toward you. (Fig. 5)



5

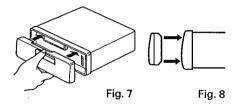
- Take care not to put pressure on the display or drop the front panel.
- Enclose for safekeeping the front panel that is removed in the supplied protective case. (Fig. 6)



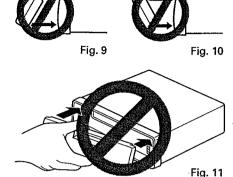
Replacing the Front Panel

Push the front panel into the main body. (Fig. 7) (Fig. 8)

 When replacing the front panel, do not put pressure on the display or control buttons.



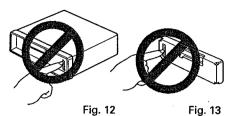
 Install the front panel holding it parallel to the main unit. Installing the panel tilted, as shown in the illustrations below, may cause the hook on the front panel to destroy the main unit's electrodes. (Fig. 9) (Fig. 10) (Fig. 11)



- Do not install the front panel while holding down buttons [4], [6] and [8] in Fig.1.
 Doing so may destroy the buttons and the main unit.
- Note that if the front panel is not attached correctly, pushing button [8] may not release the panel, and the other control buttons may not function.

Precautions

 Do not touch the contacts on the front panel or on the unit body, since this may result in poor electrical contact. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth. (Fig. 12) (Fig. 13)



Precautions When Handling the Front Panel

- Do not leave the front panel in any area exposed to high temperatures or direct sunlight.
- Do not drop the front panel or otherwise subject it to strong impact.
- Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the front panel.
- · Never try to disassemble the front panel.

Using the Clear Button

 The clear button can be located on the unit after you have removed the front panel. (Fig. 14)
 Refer to the previous page to find out how to remove the front panel.

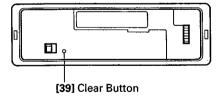


Fig. 14

Once all wiring is complete, press button [39] with a thin, pointed object. Though not a normal occurrence, the microprocessor which controls the operation of this unit can be affected by electrostatic noise. This generally is indicated by such symptoms as no power being supplied when you switch the unit on, failure of buttons and controls, or an abnormal display. Should this happen, press button [39] with a thin, pointed object to reset the microprocessor.

Function Button

Button [11] acts as the function button. Each time you press button [9], the function turns on or off.

When the Function Button is On: (Indicator [23] appears on the display and

button [9] lights in yellow.)

· The button acts as the function button.

When the Function Button is Off:

(Indicator [23] disappears and button [9] lights in red.)

Tuner

When the tuner is used, this button acts as the tuner preset button (FM1 only).

Multi-Play CD Player

When the multi-play CD player is used, this button acts as the disc number search button. (Only when a 12-disc Multi-play CD player is connected)

Adjusting Volume and Tone

Parts Identification

Fig. 1

- [1] Volume/Audio adjustment
- [3] Source selector (KEH-P6000RDS)
- [3] Tuner (KEH-5800RDS, KEH-5200RDS, KEH-52RN)
- [4] Eject
- [5] Cassette door
- [9] Function changeover button
- [11] Preset/Function button
 - Function:
 - ② AUX ON/OFF (KEH-P6000RDS)
 - (f) Illumination switch (KEH-P6000RDS, KEH-5800RDS)
- [12] Display
- [13] Shift

Switching Power On

Radio

Press button [3] to switch the tuner power on. Press button [3] again to switch the power off.

Tape

Insert the cassette tape through the cassette door [5], and the power will be automatically turned on to get the tape start being played back. To eject the tape, press the button [4].

Changing the Source (KEH-P6000RDS)

When an optional multi-play CD player is connected to your unit, the source changes in the order listed below each time you press button [3]: Tuner → Multi-play CD player → OFF.

 You cannot change the source while a cassette is being played. To change the source, press button [4] to eject the cassette, then press the source button.

If another audio equipment is connected to the IP-BUS terminal with an optional conversion cord, set the AUX to ON by doing as follows.

Hold down button ① in [11] and set the ignition switch from OFF to ON.

In this case, the source changes as follows: Tuner → (Multi-play CD player) → AUX → OFF

Mode Selection

Each press of button [13] changes the mode as follows:

Volume adjustment (VOL) → Balance adjustment (FAD/BAL) → Pre-fader (P-FAD) → Tone adjustment (BAS/MID/TRE) → Loudness select (LOUD)

- When you're adjusting fader, balance, pre-fader, bass, middle, treble settings, the indicator will stop at the center setting.
- Balance adjustment, pre-fader, tone adjustment, and or loudness select mode will be canceled after about 8 seconds.

Volume Adjustment

Pressing the (+) side of button [1] increases the volume, while the (-) side decreases it. (Display shows "VOL 00" ~ "VOL 30".)

 When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.

Balance Adjustment

Press button [13] to select balance adjustment mode. ("FAD" appears on the display.) Adjust the fader using the (+) or (−) side of button [1]. To adjust the balance, press either the (◄) or (►) side of button [1] to turn on "BAL" and use the (◄) or (►) side of the button.

Fader

The fader of this unit controls the balance between speakers ① and ② shown in Figure 15 on page 8. When you press the (+) side of button [1] the output from speaker ① increases and the output from speaker ② decreases. When you press the (-) side of button [1], the output from speaker ② increases and the output from spaeker ① decreases.

(Display shows "FAD F9" ~ "FAD R9".)
• Please set "FAD 0" when using 2 peake

 Please set "FAD 0" when using 2 peaker system.

Note:

This unit has a fader that controls the balance between speakers ① and ②, shown in Figure 15 on page 8, using button [1], and a pre-fader that controls the balance between speakers ① and ②, and speakers ③.

Balance

Pressing the (◄) side of button [1] shifts the balance to the left speaker, while the (►) side shifts it to the right speaker.
(Display shows "BAL L9" ~ "BAL R9".)

Pre-Fader Adjustment

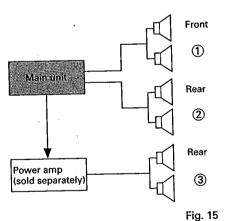
The pre-fader function of this unit controls the balance between speakers ① and ②, and speaker ③, which are shown in Figure 15

Press button [13] to select pre-fader adjustment mode. When you press the (+) side of button [1] the output from speaker ① and ② increases and the output from speaker ③ decreases. When you press the (-) side of button [1], the output from speaker ③ increases and the output from spaeker ① and ② decreases.

(Display shows "P-FAD +9" ~ "P-FAD -9".)

Note:

This unit has a fader that controls the balance between speakers ① and ②, shown in Figure 15, using button [1], and a pre-fader that controls the balance between speakers ① and ②, and speakers ③.



Tone Adjustment

Press button [13] to select tone adjustment mode. ("BAS" appears.) Select the tone you wish to adjust using the (◄) or (►) side of button [1]. Each press of the (►) side changes the tone from BAS → MID → TRE, while each press of the (◄) side changes the tone from TRE → MID → BAS.

Bass Adjustment

Select the Bass mode.

Pressing the (+) side of button [1] increases bass, while the (-) side decreases bass.

(Display shows "BAS -6" ~ "BAS +6".)

Middle Adjustment

Select Middle adjustment mode. Pressing the (+) side of button [1] increases middle, while the (-) side decreases middle. (Display shows "MID -6" \sim "MID +6".)

Treble Adjustment

Select Treble adjustment mode.
Pressing the (+) side of button [1] increases treble, while the (-) side decreases treble.
(Display shows "TRE -6" ~ "TRE +6".)

Loudness Select

This "loudness" function enhances both the high and low ranges of sound to give even more power to output even at low volume.

Press button [13] to select loudness select mode. (The "LOUD" indicator appears on the display.)

Pressing the (►) side of button [1] turns the loudness function on; pressing the (◄) side turns it off.

Switching Illumination Color (KEH-P6000RDS)

You can select either green or red for the switch illumination color. Turn the function feature on. (See page 6.) To switch the illumination color, hold down button (1) in [11] more than 2 seconds.

7

Using Source Level Adjuster

You may wish to adjust volume when you have changed the source to radio, tape, CD or AUX or when you have changed the radio band from FM to MW/LW. You can do so on the basis of the volume of FM as follows:

- 1. Use the button [3] to change the source. (In case of radio, change the band to MW/LW.)
- 2. Hold down the button [13] for about 2 seconds, and the display will show you the volume of the source. (Display shows "V-4" ~ "V+4".)
- 3. Pressing the (+) side of button [1] raises the volume and pressing the (-) side lowers it. About 8 seconds after the completion of the adjustment, the display returns to whether it was showing before the adiustment.
- No adjustment can be made when an FM station is tuned in.

Using the Radio

Parts Identification

Fig. 1

- [1] Tuning/Local seek sensitivity/Seek, Manual
- [2] TA/AF
- [3] Source selector (KEH-P6000RDS)
- [3] Tuner (KEH-5800RDS, KEH-5200RDS. KEH-52RN)
- [7] Band
- [9] Function changeover button
- [10] Preset
- [11] Preset (FM1)/Function button Function:
 - Trequency display
 - ® Local station

 - Preset scan /Best stations memory (BSM)
 - ® EON/REG

[12] Display

Fig. 2 [14] FM stereo

[15] REG

[16] TA

[17] AF [18] EON TP

[19] TP

[21] Local station

[22] FM mono

[23] Function indicator

[24] Frequency

[25] Manual

[26] Band

[27] Preset number

Note:

12 stations can be preset with 7 to 12 of button [11] for FM1 only. Press button [9] to switch between the function button and the preset button. (See page 6.)

Listening to the Radio

· Electronic Tuner

Frequency allocation differs depending upon the area. This unit has been designed in accordance with the frequency allocations for Western Europe, Asia, the Middle and Near East, Africa, Australia and Oceania. Use in other areas may result in improper reception of AM. The RDS function does not work in regions

with no RDS broadcast services. 1. Press button [3] to switch the radio

power on. 2. Press button [7] to select a band.

 $F \rightarrow F2 \rightarrow M/L$ (FM1) (FM2) (MW/LW)

Use the (◄) and (►) sides of button [1] to change between MW (531 - 1,602 kHz) and LW (153 — 281 kHz).

3. Use seek tuning to tune in a frequency. Press the (►) side of button [1] to automatically tune in the next higher receivable frequency, and the (◄) side for a lower frequency.

4. Adjust volume and tone (see page 6).

5. Assign the tuned frequency to one of the buttons in Bank [10] (preset memory).

Press and hold down one of the button in Bank [10] for at least 2 seconds. The frequency is assigned to the selected button when the preset number [27] stops flashing on the display. Up to 18 FM stations (12 FM1 stations and 6 FM2 stations), and 6 MW/LW stations can be assigned to the preset memory.

6.Once a frequency is assigned to a button in Bank [10], you just need to press that button to tune it in.

This also causes the number of the button pressed to appear at position [27] on the display.

 You can preset 12 FM1 stations. Preset them with button [11] as described above.

Adjusting Seek Sensitivity

The seek tuning function of this tuner lets you select between a local setting for reception of strong stations only, and a DX (distant) setting for reception of weaker stations. The local setting also has 4 seek tuning sensitivity levels for FM and 2 levels for MW/LW to match local conditions.

Changing the Local Seek Sensitivity

1.Use button [7] to select a band.

2. Hold down the button ® of Bank [11] for more than 2 seconds, and the display will show you the current local seek sensitivity for about 5 seconds.

3. While the local seek sensitivity remains on the display, press the (►) side of button [1] to increase the sensitivity level, and the (◄) side to decrease the level as shown below.

FM : L-1 = L-2 = L-3 = L-4 MW/LW: L-1 = L-2

The L-4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

The display of local seek sensitivity returns to the frequency when about 5 seconds have elapsed after the change of sensitivity.

Switching between Local and DX

Press button ® Bank [11] to switch between Local and DX (distant) seek tuning. When "LOC.S" [21] is shown on the display, seek tuning is performed with the local seek sensitivity. Otherwise, seek tuning is performed with the DX seek sensitivity.

Manual Tuning

Use manual tuning when stations are too weak to be picked up by seek tuning. 1.Press both (◄) and (►) sides of button [1] at the same time to turn "MANU" [25] on.

Each press of the (►) side of button [1] increases the frequency in 50 kHz steps in the FM band, 9 kHz in the MW band and 1 kHz in the LW band. Pressing the (◄) side of button [1] decreases the frequency. Holding down either side of button [1] changes the frequency at high speed.

Switching between FM Stereo and Mono

Generally, it is best to allow the ARC (Automatic Reception Control) function to automatically set the optimum listening conditions. When stereo broadcasting is received, "O" [14] will appear on the display. When there is a large amount of noise, you can press button ⑨ of Bank [11] for clearer mono reception ("MONO" [22] will appear on the display).

11

BSM (Best Stations Memory)

This function automatically locates stronger stations and automatically assigns their frequencies to the buttons in Bank [10] and [11] (FM1 only), from strongest to weakest. It comes in handy when trying to find local stations while driving.

1.Press button [7] and select a band.

- 2. Holding down button @ of Bank [11] for about 2 seconds will start BSM search. At this time, "BSM" will flash on the display.
- 3. The frequency display will return once BSM search is complete, and frequencies are assigned to preset buttons.
- You can cancel BSM search by pressing button ® of Bank [11] again.
- · If there are fewer than 6 strong stations (12 stations for FM1 only) in the area, some of the preset buttons will not be assigned frequencies, so they will retain any frequencies assigned to them previously.
- BSM search may take as long as 30 seconds in areas where there are few strong stations.

Preset Scan Tuning

This function lets you automatically monitor the stations assigned to the preset buttons.

- 1. Press the button @ of Bank [11], and the preset number [27] flash. Each station assigned to the preset buttons will be automatically tuned in for about 8 seconds.
- 2. When you hear a station that you like, press button @ of Bank [11] again to cancel preset scan tuning and remain at that station.

Using the RDS Function

What is RDS?

RDS (Radio Data System) according to a CENELEC EN50067 is a system for transmitting data signals from FM broadcast transmitter along with the normal sound program. These data signals, which are imperceptable to listeners, are intended to aid radio listeners in tuning their receivers to a desired station. RDS receivers can decode these data signals for display or control purposes.

RDS digital signal includes various data, such as PI, PS, AF, TP, TA and EON.

PIProgram Identification Code PS......Program Service Name

AF.....List of Alternative Frequencies TPTraffic Program Identification Code (Similar to SK signal of ARI system)

TA.....Traffic Announcement Code (Similar to DK signal of ARI system)

EON.....Enhanced Other Network information Code. (In some countries. EON is not offered by broadcasters.)

RDS Function of this Unit

This unit has the following functions for making use of RDS data.

- PS, the name of the currently listened station is displayed.
- AF (Alternative Frequency) function. This enables the receiver to automatically retune to more suitable frequencies transmitting the same program.
- TP/TA, EON, user selectable reception of the traffic information service, offered by

Network/Station Name Display

Switch the tuner on and choose one of the 2 FM bands.

When you tune into an RDS station with manual or seek tuning, the frequency display changes to the network/station name display after a few seconds by means of the PS code.

- · The RDS functions of this unit use RDS codes transmitted along with FM broadcasts. RDS doesn't work on the MW or LW bands.
- The RDS functions may not work properly in areas where the RDS transmissions are at an experimental stage or where there are flaws in the broadcasting system.
- Hold down button 7 of [11] to change the network/station name display to a frequency display. The frequency will be displayed only while the button is being held down.

AF Function

This receiver retunes automatically to a more suitable transmitter, contained in the list of Alternative Frequencies (AF), to enable the motorist to keep listening to programs in the same network.

Example:

If a motorist travels as shown below, from point A to point B, (and has selected AF function) then the receiver will automatically retune to a more suitable frequency transmitting the same program. This is shown by the automatic retuning from 98.5 MHz to 107.5 MHz to 96.0 MHz to 102.5 MHz.,

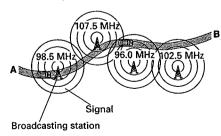


Fig. 16

To activate the Alternative Frequency Function, press button [2] for more than 2 seconds, "AF" [17] will appear on the display. Once tuned to a RDS station, as long as you drive within an area served by the same network, the receiver will automatically retune to a more suitable station transmitting the same program, by utilizing the data in the AF list.

- "PI SEEK" will appear on the display, if the AF function has been selected, and a suitable AF station cannot be found. In this case, the receiver will mute the radio sound and search the frequency band, in order to find a station with the same Pl code. The receiver will return to the original frequency if the same or related PI code can not be found.
- The AF function will not work in the following cases:
 - when the receiver is tuned to a non-RDS station. (local station)
- when the RDS station does not transmit any AF list data. when the receiver can not receive the
- AF list due to disturbances. When the receiver is unable to find a PI code the "AF" [17] indicator will flash on

the display. Thus indicating that the AF function cannot be performed.

Preset Recall

- When recalling preset stations in the AF mode, the tuner will be tuned to the stored frequency and the AF function will be operative i.e. when the signal of the recalled station is weak or has a different PI, the radio will look into the AF list and if necessary start a PI-seek in order to find a station with the same or related PI code. When the tuner is performing a PI seek "PI SEEK" is shown on the display. If the PI seek is successful, the tuner will be tuned to the new frequency that transmits the same programme service (i.e. with the same PI code) and the display will show the stored PS. If the PI seek is not successful, the tuner will return to the stored frequency. If a new station (with a different PI code)
- When recalling preset stations in the AF=OFF mode, the tuner will be tuned to the stored frequency and the display will show the stored PS. In case the tuned station has a PI code that is different from the stored one, the tuner will accept the new PI code and stay tuned to the initial frequency. The display will show the new PS when the signal of the tuned station is strong enough.

would be received on this frequency, this

station will become audible. The display

will show the frequency instead of PS.

Listening to Regional Stations

In some countries a particular programme service may "opt out" during a certain part of the day in several regional variants at particular locations. Since these regional variants are broadcasting a different programme they temporally have a PI and a PS that is different from the main programme service. The PI's are mostly "generically linked". The AF list may either be common for all regional variants or each regional variant may have its own AF list. In other countries there may be regional stations which are not an "opt out" of a particular main programme service but which have an independent existence. These regional stations all have a different PS. Their Pl's may be "generically linked" and their AF lists may carry frequencies which are alternatives for that regional station only.

1) Regional OFF Mode.

In the default condition, with the AF button [2] switched ON, the receiver is in the REG OFF mode. In this case the receiver will switch automatically to regional variants of the tuned programme service along the journey. This is of benefit when the regional variants just carry the same programme, but will become annoying if the receiver switches back and forth between different programmes. In this case it is recommended to put the receiver in the REG ON mode.

2) Regional ON Mode

When the radio is put in the REG ON mode. the radio will remain tuned to a specific regional variant as long as it is available. To put the radio in the REG ON mode, hold down button @ of [11]. "REG" [15] will appear on the display.

To cancel the REG ON mode i.e. to put the radio back in the default REG OFF mode, hold down button @ of [11] again. "REG" [15] will disappear from the display.

Traffic Information Reception

TP and EON-TP Function

When a traffic information station (TP station) is selected, "TP" [19] lights on the display, thus indicating traffic report can be received through this station. The "EON TP" [18] indicator will light on the display when a selected station (this network) is broadcasting EON information which crossreferences at least one program service which carries traffic information, thus indicating traffic report can be received through another program service by using the EON function of this unit.

In both cases, by briefly pressing button TA [2], Traffic report waiting status will be entered. However, if you wish not to interrupt your radio program (eg: classical music program) by traffic report, the EON function of this unit can be set to OFF. Pressing button @ of [11] again, changes the status of the EON function, EON-ON = EON-OFF. This indication is shown on the display for approximately 3 seconds.

If only the "EON TP" [18] indicator is on but the EON function of this unit is OFF, it is not possible to receive traffic report through another program service. In this case, "TA" [16] (if traffic report waiting status is set to ON) will flash on the display to indicate this situation.

Traffic information reception by EON-TP.

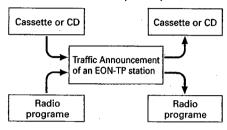


Fig. 17

Traffic Announcement Volume Adjustment

The volume level for traffic information broadcasting is temporarily stored in memory. The next time you listen to traffic information, the previous volume level is used. If the volume level you receive is lower than VOL 15, it will be set to VOL 15.

TA Reception during CD or Cassette Play

If the radio is already set to the FM band and tuned to a TP or EON-TP station, even when listening to the cassette or the multi-play CD player, when the button [2] is pushed ("TA" [16] is shown on the display), traffic report waiting will begin. When a traffic report begins, the system will switch from cassette or CD to the traffic report.

BSA Function

While button [2] is on, ("TA" [16] is shown on the display) and AF is off, and you are listening to either the cassette or multi-play CD player, should the TP station become weak, the radio will start BSA (Best TP Station Auto Search) 10 seconds after "TP" [19] disappears from the display. The tuner will automatically tune to the strongest TP station in the area, and will stand by for a traffic bulletin. BSA does not work when the AF function is selected, so hold button [2] down for more than 2 seconds to turn the AF function off.

TP Alarm Function

• In AF mode, about 30 seconds after "TP" [19] disappears from the display, which occurs if the signal from the TP becomes weak, an alarm sounds for 10 seconds to tell you to tune to another TP stations.

Tuning Functions on each RDS modes

Tuning Mode	AF Mode	TA Mode & AF plus TA Mode
Seek Tuning will stop to find,	RDS Stations	TP or EON-TP Station
BSM will select and memorize in presets,	RDS Stations	TP Stations

Non-RDS station such as those using the Swedish MBS system may be tuned in as RDS station, but this is due to both systems using the same 57 kHz subcarrier frequency and is not a mulfunction of the unit.

Tuning Steps

The tuning step is normally 50 kHz during seek tuning on an FM band. However this tuning step changes to 100 kHz when the set is in AF or TP mode. In some countries it may be desired to set a tuning step of 50 kHz in AF mode by holding down button 1 of [10] while turning the ignition key from OFF to ON.

- · During manual tuning, the step does not change; it remains fixed at 50 kHz.
- The tuning step will return to 100 kHz if the batteries supply is temporarily disconnected or the clear button is pressed.
- In AF mode, only those stations being broadcast at 100 kHz steps are subject to AF reception (CENELEC STANDARD).

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Using the Tape Deck

Parts Identification com

Fig. 1 [4] Eject

[5] Cassette door

[6] Fast forward, Rewind/Direction change [10] @ Dolby B NR (KEH-P6000RDS, KEH-

5800RDS)

⑤ Music search (KEH-P6000RDS)

® Metal (KEH-P6000RDS, KEH-5800RDS)

[12] Display

[28] Music search (KEH-P6000RDS)

[29] Metal (KEH-P6000RDS, KEH-5800RDS)

[30] Tape play

[31] Dolby B NR (KEH-P6000RDS, KEH-5800RDS)

About Cassette Tapes

Do not use tapes longer than C-90-type (90 min.) cassettes. Longer tapes can interfere with tape transport.

A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.

 Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport. (Fig. 18)



Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.

Cleaning the Head

If the playback head becomes dirty, sound quality will suffer. Periodically (once or twice a month) clean the head with a cotton swab soaked with alcohol. (Fig. 19)

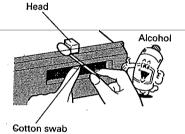


Fig. 19

Listening to a Tape

1.Insert the cassette tape into the slot [5], and power will be turned on and the tape begin being played back.

At this time, the tape running tape play indicator [30] will light up.

2. Adjust volume and tone (see page 6).

3. To eject the cassette tape, press the button [4].

Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.

KEH-5800RDS, KEH-5200RDS, KEH-52RN)

Be sure to eject the tape when the front panel is removed, or the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.

Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.

Changing Program

Push the fast forward and rewind buttons [6] together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

Dolby B NR (KEH-P6000RDS, KEH-5800RDS)

To hear a tape recorded using a Dolby NR system, press the button 4 of Bank [10].

("DI" [31] appears.)

• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol 🔼 are trademarks of Dolby Laboratories Licensing Corporation.

Tape Selector (KEH-P6000RDS, KEH-5800RDS)

When using metal tapes and chrome tapes, press button 6 of Bank [10]. ("MTL" [29]

Using Fast Forward and Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons [6] can be regard as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button [6] that corresponds to the direction that is shown by the tape play indicator [30]. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-

For rewind, press the button [6] that is opposite that of the direction shown by the tape play indicator [30]. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

When you release fast forward/rewind, lightly press button [6] located on the opposite side of the one you pressed to fast forward or rewind.

<-- -->" [30] will flash when the tape is fast forwarding or rewinding.

Using Music Search (KEH-P6000RDS)

Returning to the beginning of selection A Press the button ⑤ of Bank [10] ("MS" [28] appears) and then the high-speed tape transport button [6] for the direction opposite that is shown by the tape play indicator [30]. Playback will automatically start from the beginning of selection A.

Moving from selection A to selection B Press the button (5) of Bank [10] ("MS" [28] appears) and then the high-speed tape transport button [6] that corresponds to the direction shown by the tape play indicator [30]. Playback will automatically start from the beginning of selection B.

To enable regular fast forward/rewind operations, press the button ⑤ of Bank [10] again ("MS" [28] turns off) to turn the func-

The following errors will cause the music search function to operate improperly, even though the unit is not malfunctioning. (Fig. 20)

- · Unrecorded "blank" portions between selections less than 4 seconds - the blank portion cannot be detected by the unit.
- Pauses in recorded conversations longer than 4 seconds → the unit reads these as blanks between selections.
- · Portions recorded at very low volume for more than 4 seconds → the unit reads these as blanks between selections.

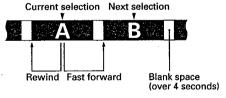


Fig. 20

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Playing Compact Discs (KEH-P6000RDS)

Precautions When Using the Multi-Play CD Control

- This unit can control multi-play CD players when it is used with multi-play CD player (CDX-P1200, CDX-P600).
- If the IP-BUS extension adapter is used, up to 4 multi-play CD players can be connected. When two or more CD players are connected, their priorities must be specified for the Multi-play CD players. See the Multi-play CD players instructions and set the address switches correctly.
- The Owner's Manual for the multi-play CD player does not contain an explanation of the CD controls for this unit. Read this Owner's Manual for details on proper operation and keep it handy for later reference.

Note:

When this unit is used with a 12-disc Multiplay CD player, buttons ⑦ to ⑫ in [11] act as Disc number search buttons. Press button [9] to switch between the function and the disc number search button. (See page 6.)

Parts Identification

Fig. 1

- [1] Track number search/Fast forward, Reverse
- [3] Source selector
- [7] Multi-play CD player select
- [9] Function changeover button
- [10] Disc number search
- [11] Disc number search/Function button Function:
 - ⑦ Display switching/Disc title
 - ® ITS (Instant Track Selection)/ Program erase
 - Play mode switching/ITS play
 - ® Scan play/Random play
 - 1 Title list
 - Pause

[12] Display

Fig. 4

- [23] Function indicator
- [32] Multi-play CD player number display
- [33] Manual
- [34] Magazine repeat mode display
- [35] Disc repeat mode display
- [36] Play elapse time display
- [37] Track number
- [38] Disc number

Using the Multi-Play CD Player

1.Press button [3] to change the display to the multi-play CD player mode and to begin disc play.

Each press of button [3] changes the mode as follows:

Tuner → Multi-play CD player → OFF

2.Use the Disc Number Search function to select a disc.

Select the desired disc by pressing one of the Disc number search button. The number of the disc selected appears at position [38] on the display.

- If the number at position [38] on the display does not change when you press a Disc number serch button, it means that there is no disc loaded in that tray.
- 3. Adjust volume and tone (see page 6).
- **4.To stop disc play, press button [3].** At another press, the normal play resumes from about where it stopped.

Vote:

- When you turn the power on or change the disc to be played, the multi-play CD player may perform a preparatory operation (verifying there is a disc, reading disc information, etc.). "READY" is displayed during this time.
- When the multi-play CD player is not working correctly, an error message appears on the display (Ex.: "ERROR-80"). Identify the error from the multi-play CD player owner's manual.
- After you press a Disc number search button, it may take some time before play begins due to the time necessary to load and set the disc in the mechanism.

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Multi-Play CD Player Switching

Up to 4 Multi-play CD player can be connected to this unit. When several multi-play CD players are connected, you can select the one you want to play. Each press of button [7] selects multi-play

Each press of button [7] selects multi-play CD players 1 to 4. The Multi-play CD player number appears on the display [32].

Track Number Search

The desired track on the disc currently being played can be selected by track (or song) number.

Confirm that Track Number is shown at Position [37] on the display. If not, press the button ⑦ of Bank [11].

Press the (►) side of button [1] to increase the number at Position [37], or the (◄) side to decrease the number. Holding either side of button [1] changes the track number at high speed.

Using Fast Forward and Reverse

- I.Press both (◄) and (►) sides of button [1] at the same time to turn "MANU" [33] on.
- 2.Press the (►) side of button [1] for fast forward, and the (◄) side for reverse.
- Sound is output during fast forward and reverse operations.

Repeat

You can select one of the play modes (repeat modes) listed below.

Play mode (repeat mode)	Operation
One-Track Repeat	Play the current track repeatedly. • When you perform track number search or fast forward or rewind, the mode changes to disc repeat mode. • Switching the multi-CD player being played or the disc switches to magazine repeat mode.
Disc Repeat	Play the same disc repeatedly. • Switching the multi-CD player being played or the disc switches to magazine repeat mode.
Magazine Repeat	Play all discs loaded in the magazine in the multi-play CD player repeatedly. All discs in the magazine are played repeatedly from the first disc.
ALL Repeat	The mode changes to this mode when 2 or more multi-play CD players are connected. Multi-play CD players 1 to 4 are played.

Each press of button (a) in bank [11] causes the mode to change as follows:

One-Track Repeat ("RPT" appears on the display [36]) — Disc Repeat ("DISC" [35] appears)

— Magazine Repeat ("M-CD" [34] appears) — ALL Repeat

Random Play

The microcomputer of the multi-play CD player selects plays tracks on discs in random order. Random play is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played at random
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	All tracks on the disc being played.
Magazine Repeat	All tracks on the discs in the magazine being played.
ALL Repeat*	All tracks on all discs in multi-play CD players 1 to 4.

^{*} When 2 or more multi-play CD players are connected.

- 1. Select the desired random play mode (repeat mode). (See page 18.)
- 2. Hold down button ® in bank [11] for more than 2 seconds. ("RDM" appears on the display [36].) To cancel random play, hold down button @ in bank [11] for more than 2 seconds again. ("RDM" disappears.)

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Using Scan

The first parts of each track are played in succession for about 10 seconds. This function is useful to search for the track or disc you want to listen to. Scan is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be scanned and played	
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.	
Disc Repeat	All tracks on the disc being played.	
Magazine Repeat	The first tracks of all the discs in the magazine being played.	
ALL Repeat *	First tracks of all discs loaded in multi-play CD players 1 to 4.	

^{*} When 2 or more multi-play CD players are connected.

- 1. Select the desired scan play mode (repeat mode). (See page 18.)
- 2.Press button ® in bank [11]. ("SCAN" appears on the display [36].) The first parts of all tracks are played in succession for about 10 seconds.
- 3.When you hear the track you want, press button ® in bank [11] again to cancel Scan. ("SCAN" disappears.) The track (disc) being played is when played to the end.
- The previous function automatically resumes when a piece of music with which Scan began returns.

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ITS (Instant Track Selection)

This function lets you program and play the tracks you want. You can listen to just your favorite tracks.

- The ADPS function* of the multi-play CD player lets you program up to 100 discs.
 (Up to 100 discs can be programmed including disc title inputs (see page 22).)
 * ADPS: Automatic Disc Program Selection
- Up to 99 tracks can be programmed for a single disc.
- When the number of discs exceeds 100, discs not being played (Information not being renewed) in memory is overwritten by the newest.
- Tracks are programmed for each disc.
 Programmed tracks are not erased after the disc is changed.

Programming

- 1. Play the track you want to program.
- 2. Press button ® in bank [11] to program the track.

 ("ITS" appears on the display [36] for 3
 - ("ITS" appears on the display [36] for 3 seconds.)
- Program tracks while ITS play is not in progress. It is possible during scan play or random play.

ITS Play

Track stored only in memory are played in order. Tracks are played according to ITS play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played by ITS
One-Track Repeat	Programmed tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	Programmed tracks on the disc being played.
Magazine Repeat	Programmed tracks on the discs in the magazine being played. • If the disc being played contains no programmed tracks, the next disc containing programmed tracks is played.
ALL Repeat*	Programmed tracks on all discs in all magazines in multi-play CD players 1 to 4. • If the disc (multi-play CD) being played contains no programmed tracks, the next disc (multi-play CD) containing programmed tracks is played.

^{*} When 2 or more multi-play CD players are connected...

1.Select the desired ITS play mode (repeat mode). (See page 18.)

- 2.Hold down button (a) in bank [11] for more than 2 seconds. ("ITS.P" appears on the display [36].) To cancel ITS play, hold down button (a) in bank [11] for more than 2 seconds again. ("ITS.P" disappears.)
- If you try to play a track that is not programmed within the play range of the selected repeat mode by ITS, "EMPTY" will appear on the display [36] for about 3 seconds, indicating that ITS play is not possible.
- You can perform scan play or random play during ITS play. In this case, scan play or random play applies to all the tracks stored in memory. (If the play mode is the magazine repaet mode or all repeat mode, scan play applies to all the tracks of the discs in the magazine stored in memory.)
- During ITS play, multi-play CD players containing discs with programmed tracks are switched, and disc and track number search is performed on programmed tracks. So, you cannot switch to any tracks or discs that are not stored in memory.

Erasing the ITS Program

You can erase one or all selections of the program for the disc being played by ITS.

To erase a single selection:

- 1.Start ITS play. (See page 21.)
- Play the track you wish to erase by using disc number search or track number search
- 3.Hold down button ® in bank [11] for more than 2 seconds. ("CLEAR" appears on the display [36] for about 3 seconds.)

To erase the disc program:

- 1.Start normal play.
- Play the disc you wish to erase by using disc number search.
- 3.Hold down button ® in bank [11] for more than 2 seconds to erase the program. ("CLEAR" appears on the display [36] for about 3 seconds.)

Pausing

- Press button @ in bank [11] to pause during disc playback ("PAUSE" appears on display [36]).
- 2. Press button @ in bank [11] again to release pause.
- You can select a track using the track number search during pause. ("PAUSE" is off while a track is being searched.)
 When the track search ends, the found track is paused at its betinning.

Disc Title Input

You can enter a title for the disc in the multi-play CD player. The title stored for the disc can be displayed.

- The ADPS function* of the multi-play CD player lets you enter titles for up to 100 discs. (Up to 100 discs, including ITS, can be programmed (see page 21).)
 *ADPS: Automatic Disc Program Selection
- A disc title can consist of up 8 characters for a single disc.
- When the number of discs exceeds 100, discs not being played (Information not being renewed) in memory is overwritten by the newest.
- One title is stored for each disc. The title stored for a disc is not erased after the disc is changed.

Entering Titles

- 1. Select the disc for which you want to enter a title.
- 2.Hold down button 7 in bank [11] for more than 2 seconds to select title input mode.
- 3. Press the (◄) or (►) side of button [1] to select the input position. The input position moves continuously when you hold down either side of the button.



- 4. Select characters using the (+) or (-) side of button [1]. When you hold down either side of the button, the character changes continuously. Each press of the (+) side changes the character from "A → B -C...", while each press of the (-) side changes the character from "C - B - A". To enter a space, press the space sign
- 5. Enter all characters by repeating steps 3 and 4. Press button 7 in bank [11] to store them in memory The title will appear on the display.
- To modify an input title, carry out steps 1 to 5 above again.

Disc Title List

You can list all discs loaded in the magazine being played. This function is convenient for checking discs in the magazine being played.

Each press of button 10 in bank [11] displays the titles of the discs in magazine being played in ascending order of disc number.

The disc title is displayed for about 8 seconds, then the normal operation display returns.

- Nothing is displayed for discs having no titles.
- · Trays with no discs are skipped.

Select the disc to be played from the disc list display.

- 1. Press button 1 in bank [11] to display the disc title.
- 2. When the title of the disc you want to listen to is displayed, press button 7 in bank [11]. That disc is played.

Display Switching Each press of button ① in bank [11] switches the display [36] between the elapsed play time and disc title.

When you press button [7] while the disc title is being displayed, the normal operation display will appear for 8 seconds.

Specifications

General 14.4 V DC (10.8 — 15.6 V allowable) Grounding system Negative type Max. current consumption 6.0 A Dimensions (chassis) 178 (W) × 50 (H) × 150 (D) mm (front face) 188 (W) × 58 (H) × 15 (D) mm Weight 1.5 kg
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Tone controls (bass)
Tape player Tape Compact cassette tape (C-30 — C-90) Tape speed 4.8 cm/sec. Fast forward/rewind time Approx. 100 sec. for C-60 Wow & flutter 0.13 % (WRMS) Frequency response (KEH-P6000RDS, KEH-5800RDS)

(KEH-5200RDS, KEH-52RN)......52 dB (IEC-A network)

Usable sensitivity	
Usable sensitivity	
Usable sensitivity	

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