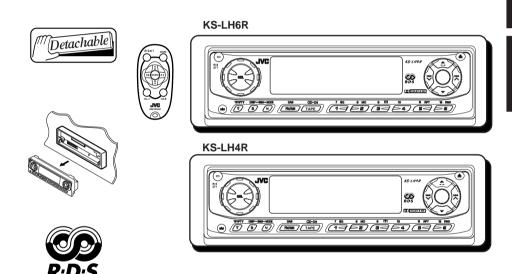




CASSETTE RECEIVER
CASSETTEN-RECEIVER
RADIOCASSETTE
RADIO/CASSETTESPELER

KS-LH6R/KS-LH4R



For installation and connections, refer to the separate manual.

Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.

Pour l'installation et les raccordements, se référer au manuel séparé.

Bijzonderheden over de installatie en aansluiting van het apparaat vindt u in de desbetreffende handleiding.

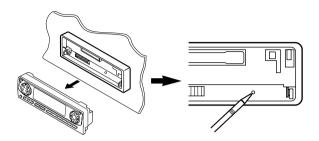
INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING

How to reset your unit

After detaching the control panel, press the reset button on the panel holder using a ball-point pen or similar tool.

This will reset the built-in microcomputer.



Note:

Your preset adjustments – such as preset channels or sound adjustments – will also be erased.

How to use the MODE (M):

If you press MODE (M), the unit goes into functions mode and the number buttons work as different function buttons.



Ex.: When you press button 5 to enter the RPT function mode.



To use these buttons as number buttons again after pressing MODE (M), wait for 5 seconds without pressing any number button until the functions mode is cleared.

• Pressing MODE (M) again also clears the functions mode.

Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

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Note:

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

BEFORE USE

*For safety....

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

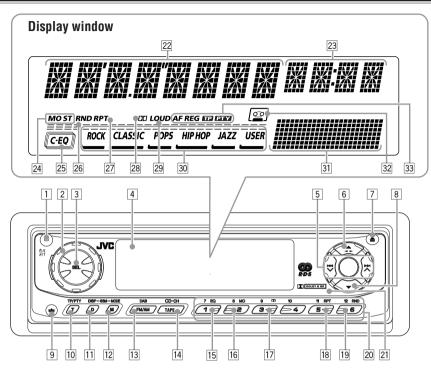
*Temperature inside the car....

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.



LOCATION OF THE BUTTONS

Control panel



- 1 ტ/ LATT (standby/on/attenuator) button
- 2 Control dial
- 3 SEL (select) button
- 4 Display window
- 5 A V/
- 6 ▲ ◀ ► (up/tape direction) button
- 7 (eject) button
- 8 ▼ (down) button
- 9 (control panel release) button
- 10 TP/PTY (T) (traffic programme/programme type) button
- 11 DISP (D) (display) button
 - · Also functions as SSM buttons when pressed together with MODE (M) button.
- 12 MODE (M) button
 - · Also functions as SSM buttons when pressed together with DISP (D) (display) button.
- 13 FM/AM DAB button
- 14 TAPE CD-CH button
- 15 EQ (equalizer) button
- 16 MO (monaural) button
- 17 DD (Dolby B) button
- 18 RPT (repeat) button

- 19 RND (random) button
- 20 Number buttons
- 21 Remote sensor

Display window

- 22 Main display
- 23 Source/clock display
- 24 Tuner reception indicators MO (monaural), ST (stereo)
- 25 C-EQ (custom equalizer) indicator
- 26 RND (random) indicator
- 27 RPT (repeat) indicator
- 28 (Dolby B) indicator
- 29 LOUD (loudness) indicator
- 30 Sound mode indicators ROCK, CLASSIC, POPS, HIP HOP, JAZZ, USER.
- 31 Volume (or audio) level meter Equalization pattern indicator
- 32 Tape-in indicator
- 33 RDS indicators AF, REG, TP, PTY



Preparing the remote controller

This section is only for KS-LH6R.

KS-LH4R can also be remotely controlled with an optionally purchased remote controller. We recommend that you use remote controller RM-RK50 with your unit.

Before using the remote controller:

 Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.

Remote sensor



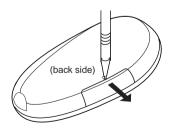
 Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Installing the battery

When the controllable range or effectiveness of the remote controller decreases, replace the battery.

1. Remove the battery holder.

- Push out the battery holder in the direction indicated by the arrow using a ball-point pen or a similar tool.
- 2) Remove the battery holder.



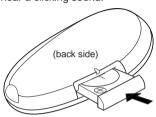
2. Place the battery.

Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.



3. Return the battery holder.

Insert again the battery holder pushing it until you hear a clicking sound.



WARNING.

- Store the battery in a place where children cannot reach.
- If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
 - Doing any of these things may cause the battery to give off heat, crack or start a fire.
- Do not leave the battery with other metallic materials.
- Doing this may cause the battery to give off heat, crack or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack or start a fire.
- Do not poke the battery with tweezers or similar tools.

Doing this may cause the battery to give off heat, crack or start a fire.

CAUTION:

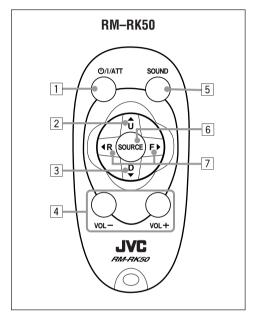
DO NOT leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time. Otherwise, it may be damaged.



Remote controller

This section is only for KS-LH6R.

KS-LH4R can also be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK50 with your unit.



- Turns on the unit if pressed when the unit is turned off.
 - Turns off the unit if pressed and held until "SEE YOU" appears on the display.
 - Drops the volume level in a moment if pressed briefly.
 - Press again to resume the volume.
- Selects the band while listening to the radio (or the DAB tuner).
 - Each time you press the button, the band changes.
 - Selects the tape direction while listening to a cassette.
 - Each time you press the button, the tape direction changes alternately.
 - Skips to the next disc while listening to the CD changer.
 - Each time you press the button, the disc number increases, and the selected disc starts playing.

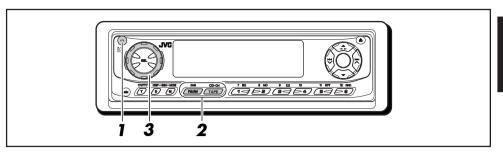
- 3 Selects the preset stations (or service) while listening to the radio (or the DAB tuner). Each time you press the button, the preset station (or service) number increases, and the selected station (or service) is tuned in.
 - Skips to the previous disc while listening to the CD changer.
 Each time you press the button, the disc number decreases, and the selected disc starts playing.
- 4 Functions the same as the control dial on the

NOTE: These buttons do not function for the preferred setting mode adjustment.

- Selects the sound (C-EQ) mode. Each time you press the button, the sound (C-EQ) mode changes.
- Selects the source.
 Each time you press the button, the source changes.
- 7 Searches stations while listening to the radio
 - Selects services while listening to the DAB tuner if pressed briefly.
 - Searches ensembles while listening to the DAB tuner if pressed more than 1 second.
 - Functions as the fast forward/rewind buttons or multi music scan buttons while listening to a cassette.
 - Fast-forwards or reverses the track if pressed and held while listening to the CD changer.
 - Skips to the beginning of the next track or goes back to the beginning of the current (or previous) tracks if pressed briefly while listening to the CD changer.

BASIC OPERATIONS





Turning on the power

1 Turn on the power.



"HELLO" appears on the display.

Note on One-Touch Operation:

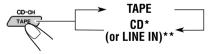
When you select a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.

2 Select the source.

To select the FM or AM tuner, press FM/AM DAB repeatedly.



To select TAPE, or CD changer (or "LINE IN"), press TAPE CD-CH repeatedly.

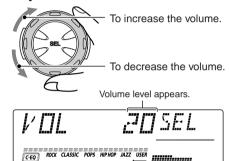


- * Without connecting to the CD changer, you cannot select the CD changer as the source.
- ** If "LINE IN" does not appear on the display, see page 27 and select the external input ("LINE IN").

To select the DAB tuner, press and hold FM/AM DAB.



3 Adjust the volume.



Volume or audio level meter (see page 27)

4 Adjust the sound as you want. (See pages 22 – 24.)

To drop the volume in a moment

Press **b/I** ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment. To resume the previous volume level, press the button briefly again.

 If you turn the control dial, you can also restore the sound.

To turn off the power

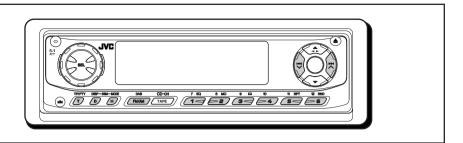
Press **७/।** ATT for more than one second. "SEE YOU" appears, then the unit turns off.

Note:

When you use this unit for the first time, set the built-in clock correctly, see page 25.



RADIO OPERATIONS

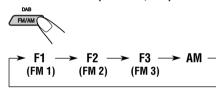


Listening to the radio

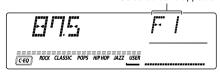
You can use either automatic searching or manual searching to tune in to a particular station.

<u>Searching a station automatically:</u> Auto search

Select the band (FM1 – 3, AM).



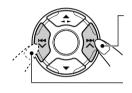
Selected band appears.



Note:

This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

2 Start searching a station.



Press ►►I to search stations of higher frequencies.

Press I ✓ to search stations of lower frequencies.

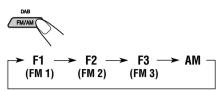
When a station is received, searching stops.

To stop searching before a station is received, press the same button you have pressed for searching.



Searching a station manually: Manual search

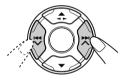
1 Select the band (FM1 - 3, AM).

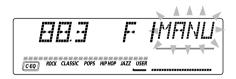


Note:

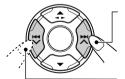
This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

Press and hold ►► A or ◄◄ ∨ until "MANU" (manual) starts flashing on the display.





3 Tune in to a station you want while "MANU" is flashing.



Press ►►I to tune in to stations of higher frequencies.

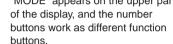
Press ► to tune in to stations of lower frequencies.

- If you release your finger from the button, the manual mode will automatically turn off after 5 seconds.
- If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz intervals for AM – MW/LW) until you release the button.

When an FM stereo broadcast is hard to receive:



 Press MODE (M) to enter the functions mode while listening to an FM stereo broadcast.
 "MODE" appears on the upper part





2 Press MO (monaural), while "MODE" is still on the display, so that the MO indicator lights up on the display.

Then, each time you press MO (monaural), the MO indicator lights up and goes off alternately.

Lights up when receiving an FM broadcast in stereo.



When the MO indicator is lit on the display, the sound you hear becomes monaural but the reception will be improved (the ST indicator goes off).



Storing stations in memory

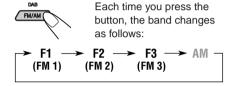
You can use one of the following two methods to store broadcasting stations in memory.

- Automatic preset of FM stations: SSM (Strongstation Sequential Memory)
- Manual preset of both FM and AM stations

FM station automatic preset: SSM

You can preset 6 local FM stations in each FM band (FM1, FM2 and FM3).

1 Select the FM band (FM1 – 3) you want to store FM stations into.



Press and hold both buttons for more than 2 seconds.





"SSM" appears, then disappears when automatic preset is over.

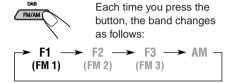
Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No.1 (lowest frequency) to No.6 (highest frequency). When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

Manual preset

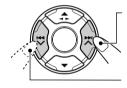
You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

Ex.: Storing an FM station of 88.3 MHz into the preset number 1 of the FM1 band.

Select the band (FM1 – 3, AM) you want to store stations into (in this example, FM1).



2 Tune in to a station (in this example, of 88.3 MHz).



Press ►►I to tune in to stations of higher frequencies.

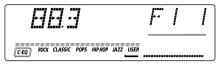
Press ► to tune in to stations of lower frequencies.





3 Press and hold the number button (in this example, 1) for more than 2 seconds.





Selected band/preset number and "MEMO" (memory) appear alternately for a while.



4 Repeat the above procedure to store other stations into other preset numbers.

Notes:

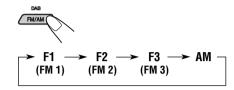
- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

Tuning in to a preset station

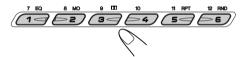
You can easily tune in to a preset station.

Remember that you must store stations first. If you have not stored them yet, see "Storing stations in memory" on pages 10 and 11.

1 Select the band (FM1 -3, AM).



2 Select the number (1 – 6) for the preset station you want.





RDS OPERATIONS

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc.

Another advantage of RDS function is called "Enhanced Other Networks." By using the Enhanced Other Networks data sent from a station, you can tune in to a different station of a different network broadcasting your favourite programme or traffic announcement while listening to another programme or to another source such as tape.

By receiving the RDS data, this unit can do the following:

- Tracing the same programme automatically (Network-Tracking Reception)
- Standby Reception of TA (Traffic Announcement) or your favourite programme
- PTY (Programme Type) search
- · Programme search
- And some other functions

<u>Tracing the same programme</u> <u>automatically (Network-Tracking</u> Reception)

When driving in an area where FM reception is not good, the tuner built in this unit automatically tunes in to another RDS station, broadcasting the same programme with stronger signals. So, you can continue to listen to the same programme in its finest reception, no matter where you drive. (See the illustration on the next page.)

Two types of the RDS data are used to make Network-Tracking Reception work correctly — PI (Programme Identification) and AF (Alternative Frequency).

Without receiving these data correctly from the RDS station you are listening to, Network-Tracking Reception will not operate.

To use Network-Tracking Reception

You can select the different modes of networktracking reception to continue listening to the same programme in its finest reception. When shipped from the factory, "AF" is selected.

 AF: Network-Tracking Reception is activated with Regionalization set to "off."

With this setting, the unit switches to another station within the same network when the receiving signals from the current station become weak. (In this mode, the programme may differ from the one currently received.)

The AF indicator lights up but the REG indicator does not.

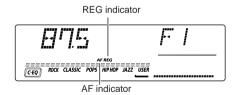
 AF REG: Network-Tracking Reception is activated with Regionalization set to "on."

With this setting, the unit switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak.

Both the AF indicator and the REG indicator light up.

OFF: Network-Tracking Reception is deactivated.

Neither the AF indicator nor the REG indicator lights up.



Note:

If a DAB tuner is connected and Alternative Reception (for DAB services) is activated, Network-Tracking Reception is also activated ("AF") automatically. On the other hand, Networking-Tracking Reception cannot be deactivated without deactivating Alternative Reception. (See page 36.)



Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 26.)



2 Select "AF-REG (alternative frequency/regionalization reception)" if not shown on the display.



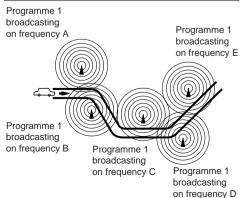
3 Select the desired mode – "AF," "AF REG" or "OFF."



4 Finish the setting.



The same programme can be received on different frequencies.



Using TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from the current source (another FM station, tape or other connected components).

 TA Standby Reception will not work if you are listening to an AM station.



Press TP/PTY (T) to activate TA Standby Reception.

- When the current source is FM, the TP indicator either lights up or flashes.
 - If the TP indicator lights up. TA Standby Reception is activated.
 If a station starts broadcasting a traffic announcement, "TRAFFIC" appears on the display, and this unit automatically tunes in to the station. The volume changes to the preset TA volume level (see page 17) and the traffic announcement can be heard.
 - If the TP indicator flashes, TA Standby
 Reception is not yet activated since the
 station being received does not provide the
 signals used for TA Standby Reception.
 To activate TA Standby Reception, you need
 to tune in to another station providing these
 signals. Press ►►I or I◄◄ to search
 for such a station.

When a station providing these signals is tuned in, the TP indicator stops flashing and remains lit. Now TA Standby Reception is activated.

■ When the current source is other than FM, the TP indicator lights up.

If a station starts broadcasting a traffic announcement, "TRAFFIC" appears on the display, and this unit automatically changes the source and tunes in to the station.

To deactivate the TA Standby Reception, press TP/PTY (T) again.



Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favourite programme (PTY: Programme Type) from the current source (another FM station, tape or other connected components).

• PTY Standby Reception will not work if you are listening to an AM station.

To select your favourite programme for PTY Standby Reception

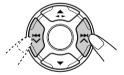
You can select your favourite programme type for PTY Standby Reception.

When shipped from the factory, PTY Standby Reception is turned off. ("OFF" is selected for PTY Standby Reception.)

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 26.)



2 Select "PTY STBY (standby)" if not shown on the display.



3 Select one of the twenty-nine PTY codes. (See page 18.)



Selected code name appears on the display and is stored into memory.

 To cancel the PTY Standby Reception, select "OFF."

4 Finish the setting.



- When the current source is FM, the PTY indicator either lights up or flashes.
 - If the PTY indicator lights up, PTY
 Standby Reception is activated.
 If a station starts broadcasting the selected PTY programme, this unit automatically tunes in to the station.
 - If the PTY indicator flashes, PTY
 Standby Reception is not yet activated since the station being received does not provide the signals used for PTY Standby Reception.

To activate PTY Standby Reception, you need to tune in to another station providing these signals. Press ►►I ↑ or I◄ ▼ to search for such a station. When a station providing these signals is tuned in, the PTY indicator stops flashing and remains lit. Now PTY Standby Reception is activated.

■ When the current source is other than FM, the PTY indicator lights up.

If a station starts broadcasting the selected PTY programme, this unit automatically changes the source and tunes in to the station.

To deactivate the PTY Standby Reception, select "OFF" in step 3 on the left column. The PTY indicator goes off.



Searching your favourite programme

You can search any one of the PTY codes.

In addition, you can store your 6 favourite programme types in the number buttons.

When shipped from the factory, the following 6 programme types have been stored in the number buttons (1 to 6).

To store your favourite programme types, see below.

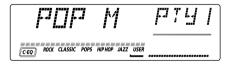
To search your favourite programme type, see page 16.

1	2	3
POP M	ROCK M	EASY M
4	5	6
CLASSICS	AFFAIRS	VARIED

To store your favourite programme types

Press and hold TP/PTY (T) for more than 2 seconds while listening to an FM station.





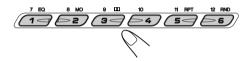
The last selected PTY code appears.

2 Select one of the twenty-nine PTY codes. (See page 18.)



Selected code name appears on the display.

Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want.



"MEMORY" and the selected code name will flash alternately. Then, only the selected code name will continue flashing on the display.

4 Finish the setting.

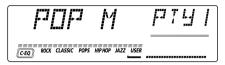




To search your favourite programme type

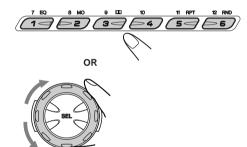
Press and hold TP/PTY (T) for more than 2 seconds while listening to an FM station.





The last selected PTY code appears.

2 Select one of the PTY codes.





Ex.: When "ROCK M" is selected

PTY search for your favourite programme starts after 5 seconds.

- If there is a station broadcasting a programme of the same PTY code as you selected, that station is tuned in.
- If there is no station broadcasting a programme of the same PTY code as you selected, the station will not change.

Note:

In some areas, the PTY search will not work correctly.

Other convenient RDS functions and adjustments

Changing the display mode while listening to an FM station

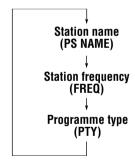
You can change the initial indication on the display to station name (PS NAME) or station frequency (FREQ) while listening to an FM RDS station.

- See also "Changing the general settings (PSM)" on pages 25 and 26.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I or I◄◄ to select "TU DISP (tuner display)."
- 3 Turn the control dial to set to the desired indication ("PS NAME" or "FREQ").
- 4 Press SEL (select) to finish the setting.

Note:

By pressing DISP (D) (display), you can change the display while listening to an FM RDS station.

Each time you press the button, the following information appears on the display:



 Then, the display goes back to the original indication in several seconds.



Automatic selection of the station when using the number buttons

Usually when you press the number button, the preset station is tuned in.

However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting. (Programme search)

 The unit takes some time to tune in to another station using Programme search.

To activate programme search, follow the procedure below.

- See also "Changing the general settings (PSM)" on pages 25 and 26.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I ∧ or I◄◀ ➤ to select "P(Programme)-SEARCH."
- 3 Turn the control dial clockwise to select "ON." Now programme search is activated.
- **4** Press SEL (select) to finish the setting.

To cancel programme search, repeat the same procedure and select "OFF" in step 3 by turning the control dial counterclockwise.

Setting the TA volume level

You can preset the volume level for TA Standby Reception. When a traffic programme is received, the volume level automatically changes to the preset level.

- See also "Changing the general settings (PSM)" on pages 25 and 26.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 3 Turn the control dial to set to the desired volume. You can set it from "VOL 00" to "VOL 50."
- 4 Press SEL (select) to finish the setting.

Automatic clock adjustment

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal. If you do not want to use automatic clock adjustment, follow the procedure below.

- See also "Changing the general settings (PSM)" on pages 25 and 26.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I or I◄◄ ➤ to select "AUTO ADJ."
- **3** Turn the control dial counterclockwise to select "OFF"

Now automatic clock adjustment is canceled.

4 Press SEL (select) to finish the setting.

To reactivate clock adjustment, repeat the same procedure and select "ON" in step 3 by turning the control dial clockwise.

Note:

You must stay tuned to the same station for more than 2 minutes after setting "AUTO ADJ" to "ON." Otherwise, the clock time will not be adjusted. (This is because the unit takes up to 2 minutes to capture the CT data in the RDS signal.)



INFO:

PTY codes

NFWS: News SOCIAL: Programmes on social activities

AFFAIRS: Topical programmes expanding RELIGION: Programmes dealing with any on current news or affairs

aspect of belief or faith, or the

Programmes which impart advice nature of existence or ethics PHONE IN: on a wide variety of topics Programmes where people can

SPORT: Sport events express their views either by

EDUCATE: Educational programmes phone or in a public forum

DRAMA: Radio plays TRAVEL: Programmes about travel

CULTURE: Programmes on national or destinations, package tours, and regional culture travel ideas and opportunities

SCIENCE: Programmes on natural science Programmes concerned with LEISURE:

and technology recreational activities such as

VARIED: Other programmes like comedies gardening, cooking, fishing, etc.

or ceremonies JA77: Jazz music POP M: COUNTRY: Pop music Country music

ROCK M: Rock music NATION M: Current popular music from

EASY M: Easy-listening music another nation or region, in that

LIGHT M: Light music country's language CLASSICS: Classical music OLDIES: Classic pop music

OTHER M: Other music FOLK M: Folk music

children

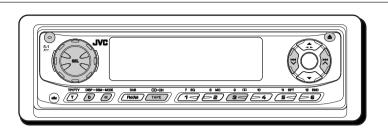
WEATHER: Weather information DOCUMENT: Programmes dealing with factual FINANCE:

Reports on commerce, trading, matters, presented in an the Stock Market, etc. investigative style

CHILDREN: Entertainment programmes for

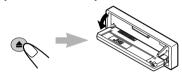
TAPE OPERATIONS



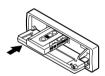


Listening to a cassette

1 Open the control panel.



2 Insert a cassette into the cassette compartment.



The unit turns on and tape play starts automatically.

3 Close the control panel by hand.



Tape-in indicator appears.



4 Select the tape direction.



Each time you press ▲ ◀►, the tape direction changes alternately forward and reverse.

Note on One-Touch Operation:

When a cassette is already in the cassette compartment, select tape as the source by pressing TAPE CD-CH to start tape play.

To stop play and eject the cassette

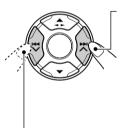
Press ▲.

Tape play stops and the cassette automatically ejects from the cassette compartment. The source changes to the previously selected one.

If you change the source, tape play also stops (without ejecting the cassette this time).

 You can eject the cassette while the unit is turned off by pressing _.

To fast-forward and rewind a tape



Press >> A for more than 1 second to fast-forward the tape.
When the tape reaches its end, the tape is reversed and playback starts from the beginning of the other side.

Press ► ✓ for more than 1 second to rewind the tape.

When the tape reaches its end, playback of the same side starts.

To stop fast forward or rewind at any position on the tape, press ▲ ◄ ►.

Tape play starts from that position on the tape.

Notes:

- When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)
- When the tape reaches its end while fast-forwarding, the tape direction will be changed automatically.



To play back tapes recorded with the Dolby B NR*

- **1** Press MODE (M) to enter the functions mode while listening to a tape.
 - "MODE" appears on the upper part of the display, and the number buttons work as different function buttons.
- 2 Press (Dolby B), while "MODE" is still on the display so that the (Dolby B) indicator lights up.
 - "DOLBY B" also appears on the display for several seconds.

To cancel the Dolby B NR, repeat steps 1 and 2 above again.

- * Manufactured under license from Dolby Laboratories.
- "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Prohibiting cassette ejection

You can prohibit cassette ejection and "lock" a cassette in the cassette compartment.

Press and hold TAPE CD-CH and **७/।** ATT for more than 2 seconds.

"NO EJECT" flashes on the display for about 5 seconds, and the cassette is "locked."

To cancel the prohibition and "unlock" the cassette, press and hold TAPE CD-CH and �/I ATT for more than 2 seconds again. "EJECT OK" flashes for about 5 seconds, and this time the cassette is "unlocked."

Note:

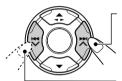
If you press \(\textit{\textit{\textit{\textit{\textit{d}}}}}\) while cassette ejection is prohibited, the display panel flips down, but the cassette continues to play and cannot be ejected.

Finding the beginning of a tune

Multi Music Scan allows you to automatically start playback from the beginning of a specified tune. You can specify up to 9 tunes ahead of or before the current tune.

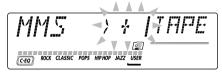
During playback

Specify where (how many tunes ahead of or before the current tune) the tune you want is located.



Press ►►I to locate a tune ahead of the current tune on the cassette.

Press I ✓ ✓ to locate a tune before the current tune on the cassette.



Each time you press the buttons, the number changes up to ± 9 .

When the beginning of the specified tune is located, playback starts automatically.

Notes:

- While locating a specified tune:
 - If the tape is rewound to its beginning, playback starts from the beginning of that side.
 - If the tape is fast-forwarded to the end, it is reversed and played from the beginning of the other side.
- In the following cases, the Multi Music Scan function may not operate correctly:
 - Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions between tunes.
 - Tapes with short non-recorded sections.
 - Tapes with high level of noise or humming between tunes.
 - Tapes with tunes recorded at low recording levels.
 - The Dolby NR setting does not match. For example, if Dolby B NR is on and the tape was recorded with no Dolby NR.



Other convenient tape functions

Skipping the blank portions on the tape

You can skip blank portions between the tunes (Blank Skip).

When this function is on, the unit skips blank portions of 15 seconds or more, fast-forwards to the next tune, then starts playing it.

- See also "Changing the general settings (PSM)" on pages 25 and 26.
- Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 26.)



Press ►►I or I◄◄ ➤ to select "B. SKIP" (blank skip).



3 Turn the control dial clockwise to select "ON."



Now Blank Skip is activated.

4 Press SEL (select) to finish the setting.



To cancel Blank Skip, repeat the same procedure and select "OFF" in step 3 by turning the control dial counterclockwise.

Playing the current tune repeatedly

You can play the current tune repeatedly (Repeat Play).



1 Press MODE (M) to enter the functions mode while playing a tune you want to hear over again on a cassette.



"MODE" appears on the upper part of the display, and the number buttons work as different function buttons.



2 Press RPT (repeat), while "MODE" is still on the display, so that the RPT indicator lights up on the display.



Lights up when Repeat Play is turned on.

When the tune has been played, the tape is automatically rewound to the beginning of that tune and the same tune will be played again.

To cancel Repeat Play, repeat steps 1 and 2 above again so that the RPT indicator goes off.

Note:

In the following cases, Blank Skip and Repeat Play may not operate correctly:

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
- Tapes with short non-recorded sections.
- Tapes with high level noise or humming between tunes.
- Tapes with tunes recorded at low recording levels.
- The Dolby NR setting does not match. For example, if Dolby B NR is on and the tape was recorded with no Dolby NR.



SOUND ADJUSTMENTS

Adjusting the sound

You can adjust the sound characteristics to your preference.

I Select the item you want to adjust.



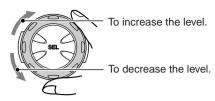
Each time you press the button, the adjustable items change as follows:



Indication	To do:	Range
BAS	Adjust the bass.	-06 (min.) +06 (max.)
TRE	Adjust the treble.	-06 (min.) +06 (max.)
FAD*	Adjust the front and rear speaker balance.	R06 (Rear only) F06 (Front only)
BAL	Adjust the left and right speaker balance.	L06 (Left only) R06 (Right only)
LOUD	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON LOUD OFF
VOL	Adjust the volume.	00 (min.) 50 (max.)

^{*} If you are using a two-speaker system, set the fader level to "00."

2 Adjust the level.





Equalization pattern changes as you adjust the bass or treble.

Note:

Normally, the control dial works as the volume control. So you do not have to select "VOL" to adjust the volume level.



Selecting preset sound modes (C-EQ: custom equalizer)

You can select a preset sound mode (C-EQ: custom equalizer) suitable to the music genre.

 There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step 1 again.

Press MODE (M).



"MODE" appears on the upper part of the display, and the number buttons work as different function buttons.

Press EQ (equalizer) while "MODE" is still on the display.



The last selected sound mode is recalled and applied to the current source.



Ex.: If you have selected "USER" previously

3 Select the sound mode you want.



Each time you press the button, the sound modes change as follows:





Sound mode indicator flashes.

Ex.: When you select "ROCK"

Indication	For:	Preset values		lues
		BAS	TRE	LOUD
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	-02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or Rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

Note:

You can adjust each sound mode to your preference, and store it in memory.

If you want to adjust and store your original sound mode, see "Storing your own sound adjustments" on page 24.

To store a sound mode separately for each playback source (C-EQ Link)

You can select a sound mode and store it in memory. It will be recalled every time you select the same source and will be shown on the display. A sound mode can be stored for each of the following sources — FM1, FM2, FM3, AM, tape and external components.

- See also "Changing the general settings (PSM)" on pages 25 and 26.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I or I◄◀ to select "CEQ LINK (custom equalizer link)."
- 3 Turn the control dial clockwise to select "LINK ON."
- 4 Press SEL (select) to finish the setting.

To cancel C-EQ Link, repeat the same procedure and select "LINK OFF" in step 3.

Note:

When the "CEQ LINK" setting is changed, the sound mode (C-EQ) is automatically reset to "USER."



When "CEQ LINK" is set to "LINK ON"

The selected sound mode can be stored in memory for the current source.

Each time you change to the same source, the same sound mode is also recalled and shown on the display. The C-EQ indicator also flashes.

When "CEQ LINK" is set to "LINK OFF"
 The selected sound mode effect applies to any source.

Storing your own sound adjustments

You can adjust the sound modes to your preference and store your own adjustments in memory.

- There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step 1 again.
- Press MODE (M).



"MODE" appears on the upper part of the display, and the number buttons work as different function buttons.

2 Press EQ (equalizer) while "MODE" still on the display.



The last selected sound mode is recalled and applied to the current source.



Sound mode indicator flashes.

Ex.: If you have selected "ROCK" previously

3 Select the sound mode you want to adjust.



4 Select the item you want to adjust.



5 Adjust the level.



To increase the level.

· See page 22 for details.

To decrease the level.



Equalization pattern changes as you adjust the bass or treble.

Ex.: When you adjust "TRE"

- 6 Repeat steps 4 and 5 to adjust the other items.
- 7 Repeat the same procedure to store other sound modes.

To reset to the factory settings, repeat the same procedure and reassign the preset values listed in the table on page 23.

OTHER MAIN FUNCTIONS



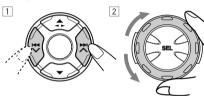
Setting the clock

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.

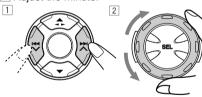
(See page 26.)



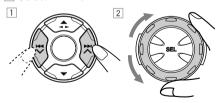
- 2 Set the hour.
 - Select "CLOCK H (hour)" if not shown on the display.
 - 2 Adjust the hour.



- 3 Set the minute.
 - 1 Select "CLOCK M (minute)."
 - 2 Adjust the minute.



- 4 Set the clock system.
 - 1 Select "24H/12H."
 - ² Select "24H" or "12H."



5 Finish the setting.



To check other information during play, press DISP (D) (display).

Each time you press the button, the other information (either the clock or the source name) will be shown on the upper part of the display for a while.

 Pressing DISP (D) (display) with the unit turned off will show the clock time for about 5 seconds.

Changing the general settings (PSM)

You can change the items listed on the next page by using the PSM (Preferred Setting Mode) control.

Basic Procedure

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.

(See page 26.)



2 Select the PSM item you want to adjust. (See page 26.)



3 Adjust the PSM item selected.



4 Repeat steps 2 and 3 to adjust the other PSM items if necessary.

5 Finish the setting.



Preferred Setting Mode (PSM) items

1 SEL	2	Set.	SEL	Factory-preset settings	See page
Hold.	Select.	clockwise	Clockwise		
CLOCK H	Hour adjustment	Back	Advance	0.00	25
CLOCK M	Minute adjustment	Back	Advance	0:00	25
CEQ LINK	Custom equalizer link	LINK OFF	LINK ON	LINK OFF	23, 27
24H/12H	24/12-hour time display	12H	24H	24H	25
AUTO ADJ	Automatic clock setting	OFF	ON	ON	17
CLOCK	Clock display	OFF	ON	ON	27
TU DISP	Tuner display	FREQ	PS NAME	PS NAME	16
AF-REG	Alternative frequency/ Regionalization reception	AF ←	→ AF REG FF ←	AF	12
PTY STBY	PTY standby		ogramme types ee page 18)	OFF	14
TA VOL	Traffic announcement volume	VOL 00 — VOL 50		VOL 20	17
P-SEARCH	Programme search	OFF	ON	OFF	17
DAB AF*	Alternative frequency search	AF OFF	AF ON	AF ON	36
LEVEL	Level indicator	1 7.11	→ AUDIO 1 DIO 2 ←	AUDIO 2	27
DIMMER**	Dimmer mode	AUTO ← ♣ O	→ OFF N ←	AUTO	27
TEL	Telephone muting	OFF ← MUTING 1 ↑ MUTING 2 ←		OFF	27
BEEP**	Key-touch tone	OFF	ON	ON	27
B. SKIP	Blank skip	OFF	ON	OFF	21
EXT IN***	External component	CHANGER	LINE IN	CHANGER	27

[•] Press SEL (select) to finish the setting.

^{*} Displayed only when the DAB tuner is connected.

^{**} Only for KS-LH6R.

^{***} Displayed only when one of the following sources is selected – FM, AM or tape.



To set Custom Equalizer Link - CEQ LINK

A different sound mode (C-EQ) can be stored in memory for each source so that you can change the sound modes simply by changing the sources. When shipped from the factory, this mode is deactivated.

• LINK ON: Different sound modes for different

sources.

LINK OFF: One sound mode for all sources.

To set the clock display - CLOCK

You can set the clock to be shown on the display when the unit is turned on.

When shipped from the factory, the clock is set to be shown on the display.

• ON: Clock display is turned on.

OFF: Clock display is turned off. When

"OFF" is selected, the current source name or station band appears instead of the clock display (except when "LINE IN" is selected as the source).

,

To select the level meter - LEVEL

You can select the level display according to your preference.

When shipped from the factory, "AUDIO 2" is selected.

AUDIO 1: Level meter illuminates from bottom

to top.

AUDIO 2: Alternates level meter (moves from

bottom to top) and illumination

display.

OFF: Erases the audio level meter.

To select the dimmer mode – DIMMER (only for KS-LH6R)

When you turn on the car headlights, the display automatically dims (Auto Dimmer).

When shipped from the factory, Auto Dimmer mode is activated.

AUTO: Activates Auto Dimmer.
OFF: Cancels Auto Dimmer.
ON: Always dims the display.

Note:

Auto Dimmer equipped with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.

In this case, set the dimmer mode to "ON" or "OFF."

To select the telephone muting – TEL

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either "MUTING 1" or "MUTING 2," whichever mutes the sounds from this unit.

When shipped from the factory, this mode is deactivated.

 MUTING 1: Select this if this setting can mute the sounds.

 MUTING 2: Select this if this setting can mute the sounds.

• OFF: Cancels the telephone muting.

To turn on/off the key-touch tone – BEEP (only for KS-LH6R)

You can deactivate the key-touch tone if you do not want it to beep each time you press a button. When shipped from the factory, the key-touch tone is activated.

ON: Activates the key-touch tone.

• OFF: Deactivates the key-touch tone.

To select the external component to use – EXT IN

You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).

To use the external component as the playback source through this unit, you need to select which component – CD changer or external component – to use.

When shipped from the factory, CD changer is selected as the external component.

• LINE IN: To use the external component other than CD changer.

• CHANGER: To use the CD changer.

Note:

For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/Connection Manual (separate volume).



Detaching the control panel

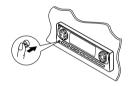
You can detach the control panel when leaving the car.

When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

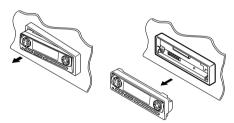
Detaching the control panel

Before detaching the control panel, be sure to turn off the power.

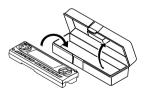
1 Unlock the control panel.



2 Pull the control panel out of the unit.

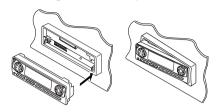


3 Put the detached control panel into the provided case.



Attaching the control panel

Insert the right side of the control panel into the groove on the panel holder.



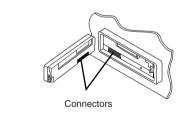
2 Press the left side of the control panel to fix it to the panel holder.



Note on cleaning the connectors:

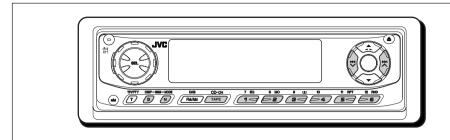
If you frequently detach the control panel, the connectors will deteriorate.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



CD CHANGER OPERATIONS





We recommend that you use one of the CH-X series with your unit.

If you have another CD automatic changer, consult your JVC IN-CAR ENTERTAINMENT dealer for connections.

 For example, if your CD automatic changer is one of the KD-MK series, you need a cord (KS-U15K) for connecting it to this unit.

Before operating your CD automatic changer:

- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1" "RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection and make sure the cords are connected firmly. Then, press the reset button of the CD changer.

Playing CDs

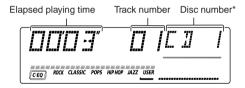
Select the CD automatic changer (CD).



Press the button to select the CD automatic changer.

 If you have changed the "EXT IN" setting to "LINE IN" (see page 27), you cannot select the CD changer.

Playback starts from the first track of the first disc. All tracks of all discs are played back.



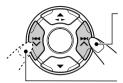
* When "CLOCK" is set to "ON" (see page 27), disc number will soon change to clock time.

Note on One-Touch Operation:

When you press TAPE CD-CH, the power automatically turns on. You do not have to press **\Omega!I** ATT to turn on the power.



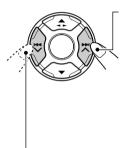
To fast-forward or reverse the track



Press and hold ►►I , while playing a disc, to fast-forward the track.

Press and hold ◄◀ ✔, while playing a disc, to reverse the track.

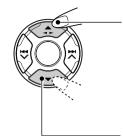
To go to the next or previous tracks



Press A briefly, while playing a disc, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

Press I◄◀ ➤ briefly, while playing a disc, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

To go to the next discs or the previous discs

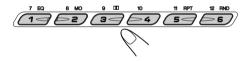


Press A, while playing a disc, to go to the next disc. Each time you press the button consecutively, the first track of the next disc is located and played back.

Press ▼, while playing a disc, to go to the previous disc. Each time you press the button consecutively, the first track of the previous disc is located and played back.

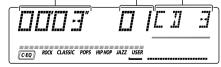
To go to a particular disc directly

Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).



- To select a disc number from 1 6:
 Press 1 (7) 6 (12) briefly.
- To select a disc number from 7 12:
 Press and hold 1 (7) 6 (12) for more than 1 second.

Elapsed playing time Track number Disc number*



* When "CLOCK" is set to "ON" (see page 27), disc number will soon change to clock time.



Selecting CD playback modes

To play back tracks at random (Random Play)



1 Press MODE (M) to enter the functions mode while playing a disc.

"MODE" appears on the upper part of the display, and the number buttons work as different function buttons



 Press RND (random), while "MODE" is still on the display, so that the RND indicator lights up on the display.

Then, each time you press RND (random), the random play mode changes as follows:





RND indicator lights up.

Ex.: When you select "RND1."

Mode	RND Indicator	Plays at random
RND1	Lights	All tracks of the current disc, then the tracks of the next disc and so on.
RND2	Flashes	All tracks of all discs inserted in the magazine.

To play back tracks repeatedly (Repeat Play)



 Press MODE (M) to enter the functions mode while playing a disc.

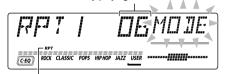
"MODE" appears on the upper part of the display, and the number buttons work as different function buttons.



Press RPT (repeat), while "MODE" is still on the display, so that the RPT indicator lights up on the display.

Then, each time you press RPT (repeat), the repeat play mode changes as follows:





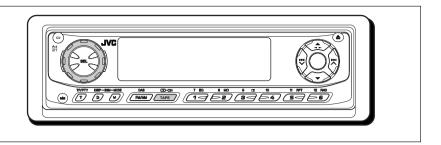
RPT indicator lights up.

Ex.: When you select "RPT1."

Mode	RPT Indicator	Plays repeatedly
RPT1	Lights	The current track (or specified track).
RPT2	Flashes	All tracks of the current disc (or specified disc).



EXTERNAL COMPONENT OPERATIONS



Playing an external component

You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).

Preparations:

- For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).
- Before operating the external component using the following procedure, select the external input correctly. (See "To select the external component to use – EXT IN" on page 27.)
- Select the external component (LINE IN).



Press the button to select the external component.



- If "LINE IN" does not appear on the display, see page 27 and select the external input ("LINE IN").
- Displayed only when one of the following sources is selected – FM, AM or tape.

Note on One-Touch Operation:

When you press TAPE CD-CH, the power automatically comes on. You do not have to press **(b/1 ATT** to turn on the power.

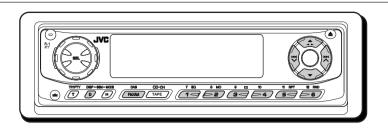
- 2 Turn on the connected component and start playing the source.
- **3** Adjust the volume.



4 Adjust the sound characteristics you want. (See pages 22 – 24.)

DAB TUNER OPERATIONS





We recommend that you use DAB (Digital Audio Broadcasting) tuner KT-DB1500 with your unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

 Refer also to the Instructions supplied with your DAB tuner.

What is DAB system?

DAB is one of the digital radio broadcasting systems available today. It can deliver CD quality sound without any annoying interference and signal distortion.

Furthermore, it can carry text, pictures and data.

In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called "services") to form one "ensemble."

With the DAB tuner connected with this unit, you can enjoy these DAB services.

Tuning in to an ensemble and one of the services

A typical ensemble has 6 or more programmes (services) broadcast at the same time. After tuning in to an ensemble, you can select a service you want to listen to.

Before you start....

Press DAB (FM/AM) briefly if tape, CD changer or external component is the current source.

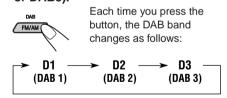
Select the DAB tuner.



Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

2 Select the DAB band (DAB1, DAB2 or DAB3).

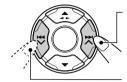


Note:

This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any one of them to tune in to an ensemble.



3 Start searching an ensemble.



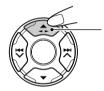
Press ►►I to search ensembles of higher frequencies.

Press ► to search ensembles of lower frequencies.

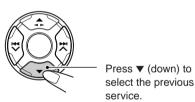
When an ensemble is received, searching stops.

To stop searching before an ensemble is received, press the same button you have pressed for searching.

4 Select a service you want to listen to.



Press ▲ (up) to select the next service.

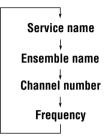


To change the display information while tuning in to an ensemble

Normally service name is shown on the display. If you want to change the display information, press DISP (D) (display).



Each time you press the button, the following information appears on the display for a while.



To tune in to a particular ensemble without searching

- 1 Press and hold DAB (FM/AM) to select DAB tuner as the source.
- 2 Press DAB (FM/AM) repeatedly to select the DAB band (DAB1, DAB2 or DAB3).
- 3 Press and hold ►►I or I◄◄ for more than 1 second.
- 4 Press ►►I or I◄◀ ✓ repeatedly until the ensemble you want is selected.
 - If you hold down the button, the frequency keeps changing until you release the button.

To restore the FM/AM tuner

Press and hold DAB (FM/AM) again.



Storing DAB services in memory

You can preset up to 6 DAB services in each DAB band (DAB1, DAB2 and DAB3) manually.

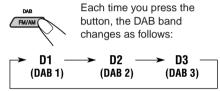
Select the DAB tuner.



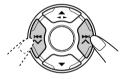
Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

2 Select the DAB band (DAB1, DAB2 or DAB3) you want.



3 Tune in to an ensemble you want.



4 Select a service of the ensemble you want.



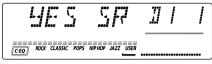
Press ▲ (up) to select the next service.



Press ▼ (down) to select the previous service.

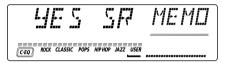
5 Press and hold the number button (in this example, 1) you want to store the selected service into for more than 2 seconds.





Selected band/preset number and "MEMO" (memory) appear alternately for a while.





6 Repeat the above procedure to store other DAB services into other preset numbers.

Notes:

- A previously preset DAB service is erased when a new DAB service is stored in the same preset number.
- Preset DAB services are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the DAB services again.



Tuning in to a preset DAB service

You can easily tune in to a preset DAB service. Remember that you must store services first. If you have not stored them yet, see page 35.

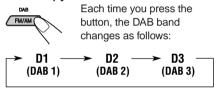
Select the DAB tuner.



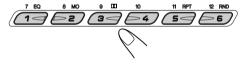
Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

2 Select the DAB band (DAB1, DAB2 or DAB3) you want.



3 Select the number (1 – 6) for the preset DAB service you want.



What you can do more with DAB

Tracing the same program automatically (Alternative Reception)

You can keep listening to the same program.

- While receiving a DAB service:
 When driving in an area where a DAB service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same program.
- While receiving an FM RDS station:
 When driving in an area where a DAB service is broadcasting the same program as the FM RDS station, this unit automatically tunes in to the DAB service.

Note:

When reception switches between DAB and FM, the listening volume level may increase or decrease inconveniently. This change in the volume level results from unequal audio injection levels at broadcaster site, but not from the malfunction of this unit.

To use Alternative Reception

When shipped from the factory, Alternative Reception is activated.

- See also "Changing the general settings (PSM)" on pages 25 and 26.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- **3** Turn the control dial to select the desired mode.

(see page 12).

- AF ON: Traces the program among DAB services and FM RDS stations

 Alternative Reception. The AF indicator lights up on the display
- · AF OFF: Deactivates Alternative Reception.

Note:

When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 12) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

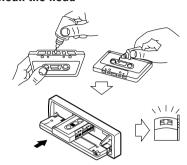
4 Press SEL (select) to finish the setting.

MAINTENANCE



This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

To clean the head

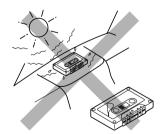


 Clean the heads after every 10 hours of use using a wet-type head cleaning tape (available at an audio store).

When the head becomes dirty, you may realize the following symptoms:

- Sound quality is reduced.
- Sound level decreases.
- Sound drops out.
- · Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.

To keep the tape clean



- Always store the cassettes in their storage cases after use.
- · Do not store cassettes in the following places:
 - Subject to direct sunlight
 - With high humidity
 - At extremely hot temperatures

CAUTION:

- Do not play the cassettes with peeling labels; otherwise, they can damage the unit.
- Tighten tapes to remove slack since loose tape may become entangled with the mechanism.
- Do not leave a cassette in the cassette compartment after use, as the tape may become slack.

The function below is also provided to ensure the longer life of this unit.

Ignition key-off release/Ignition key-on play

- Turning off the ignition key with a cassette in the compartment automatically releases the tape from the unit's tapehead.
- Turning on the ignition key with a cassette in the compartment starts playback automatically if you turned off the ignition during tape play.



TROUBLESHOOTING

What appears to be trouble is not always serious. Check the following points before calling a service center.

Symptoms	Causes	Remedies	
A cassette tape cannot be inserted.	You have tried to insert a cassette the wrong way.	Insert the cassette with the exposed tape facing to the right.	
A cassette tape cannot be ejected.	Cassette ejection is prohibited.	Press and hold TAPE CD-CH and �/I ATT for more than two seconds.	
Cassette tapes become hot.	This is not a malfunction.		
Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.	
Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.	
Sound cannot be heard from the speakers.	The volume is turned to the minimum level.	Adjust it to the optimum level.	
	Connections are incorrect.	Check the cords and connections.	
SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.	
Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.	
"NO DISC" appears on the display.	No CD is in the magazine.	Insert CDs into the magazine.	
uispiay.	CDs are inserted incorrectly.	Insert them correctly.	
"RESET 8" appears on the display.	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.	
"RESET 1" - "RESET 7" appears on the display.		Press the reset button of the CD changer.	
This unit does not work at all. The CD changer does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the panel holder. (The clock setting and preset stations stored in memory are erased.) (See page 2.)	

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel
Rear: 50 W per channel
Continuous Power Output (RMS):

Front: 19 W per channel into 4 Ω , 40 Hz

to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4 Ω , 40 Hz

to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Tone Control Range:

Bass: ±10 dB at 100 Hz Treble: ±9 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance: $2.0 \text{ V}/20 \text{ k}\Omega$ load

(250 nWb/m)

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz
AM: (MW) 522 kHz to 1 620 kHz
(LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω) 50 dB Quieting Sensitivity: 16.3 dBf (1.8 μ V/75 Ω) Alternate Channel Selectivity (400 kHz): 65 dB Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 30 dB Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 µV Selectivity: 35 dB

[LW Tuner]

Sensitivity: 50 µV

CASSETTE DECK SECTION

Wow & Flutter: 0.11% (WRMS) Fast-Wind Time: 100 sec. (C-60)

Frequency Response (Dolby B NR OFF):

30 Hz to 16 000 Hz (Normal tape) Signal-to-Noise Ratio: (Normal tape)

(Dolby B NR ON): 65 dB (Dolby B NR OFF): 56 dB

Stereo Separation: 40 dB

GENERAL

Power Requirement:

Operating Voltage: DC 14.4 V

(11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature: 0°C to +40°C

Dimensions (W \times H \times D):

Installation Size: 182 mm \times 52 mm \times 150 mm Panel Size: 188 mm \times 58 mm \times 14 mm Mass: 1.4 kg (excluding accessories)

Design and specifications subject to change without notice.

Having TROUBLE with operation? Please reset your unit

Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb? Bitte setzen Sie Ihr Gerät zurück

Siehe Seite Zurücksetzen des Geräts

Vous avez des PROBLÈMES de fonctionnement? Réinitialisez votre appareil

Référez-vous à la page intitulée Comment réinitialiser votre appareil

Hebt u PROBLEMEN met de bediening? Stel het apparaat terug

Zie de pagina met de paragraaf Het apparaat terugstellen





