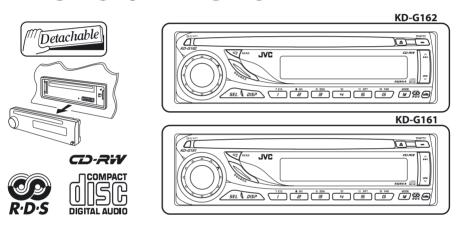




### **CD RECEIVER**

### KD-G162/KD-G161



For canceling the display demonstration, see page 5.

For installation and connections, refer to the separate manual.



#### 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.

#### IMPORTANT FOR LASER PRODUCTS

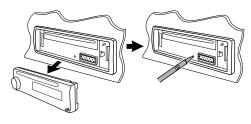
- 1. CLASS 1 LASER PRODUCT
- 2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- 3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- 4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible	ADVARSEL: Synlig og usynlig	VARNING : Synlig och	VARO : Avattaessa ja suojalukitus
laser radiation when open and			
Interlock failed or defeated.			
AVOID DIRECT EXPOSURE TO			lasersäteilylle. Vältä säteen
BEAM. (e)	stråling. (d)	strålen. (s)	kohdistumista suoraan itseesi. (†)

### Warning:

If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

### How to reset your unit



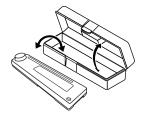
• Your preset adjustments will also be erased.

### How to forcibly eject a disc

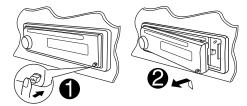


- If this does not work, reset your unit.
- Be careful not to drop the disc when it ejects.

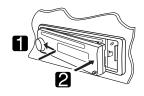
# How to detach/attach the control panel



#### Detaching...



### Attaching...

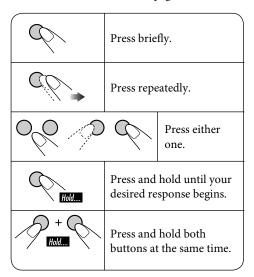


Note: Only for [EX] model users in UK and European countries

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.

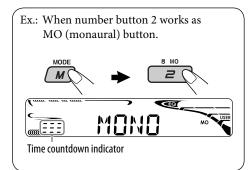
### How to read this manual

- Button operations are mainly explained with the illustrations in the table below.
- is used to indicate an indicator is displayed for the corresponding operation.
- Some related tips and notes are explained in "More about this unit" (see pages 14 and 15).



### How to use the M MODE button

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



To use these buttons for their original functions again after pressing M MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared or press M MODE again.

### **CONTENTS**

Control panel — KD-G162 and KD-G161	4
Getting started	
Basic operations	5
Radio operations	6
FM RDS operations	7
Searching for your favorite FM RDS programme	7
Disc operations	
Playing a disc in the unit	9
Sound adjustments	10
General settings — PSM	11
Maintenance	13
More about this unit	14
Troubleshooting	16
Specifications	17

### **Caution on volume setting:**

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

### For safety...

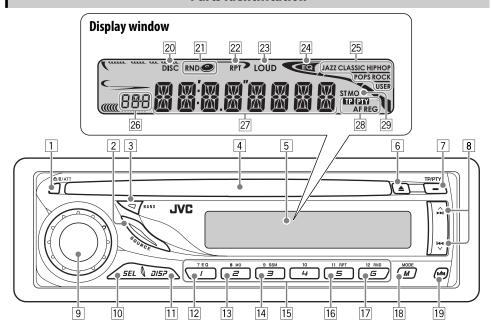
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

### 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.

### Control panel — KD-G162 and KD-G161

### **Parts identification**



- 1 Φ/I/ATT (standby/on/attenuator) button
- 2 SOURCE button
- 3 BAND button
- 4 Loading slot
- 5 Display window
- 6 **≜** (eject) button
- 7 TP/PTY (traffic programme/programme type) button
- 9 Control dial
- 10 SEL (select) button
- 11 DISP (display) button
- 12 EQ (equalizer) button
- 13 MO (monaural) button
- SSM (Strong-station Sequential Memory)
- 15 Number buttons
- 16 RPT (repeat) button
- 17 RND (random) button

- 18 M MODE button
- (control panel release) button

### **Display window**

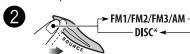
- 20 DISC indicator
- 21 RND (disc random) indicator
- 22 RPT (repeat) indicator
- 23 LOUD (loudness) indicator
- 24 EQ (equalizer) indicator
- Sound mode (C-EQ: custom equalizer) indicators—JAZZ, CLASSIC, HIP HOP, POPS, ROCK, USER
- 26 Source display / Volume level indicator / Time countdown indicator
- 27 Main display
- 28 RDS indicators—TP, PTY, AF, REG
- 29 Tuner reception indicators—ST (stereo), MO (monaural)

### **Getting started**

### Basic operations I

1 Turn on the power.





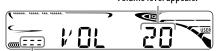
- \* You cannot select "DISC" as the playback source if there is no disc in the unit.
- 3 For FM/AM tuner



4 Adjust the volume.



Volume level appears.



Volume level indicator

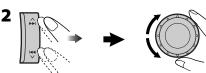
Adjust the sound as you want. (See page 10.)

To drop the volume in a moment (ATT)  To restore the sound, press it again.	Ф/1/ATT
To turn off the power	⊕/I/ATT Hold

### **Basic settings**

• See also "General settings — PSM" on pages 11 and 12.





- Canceling the display demonstrations
  Select "DEMO," then "DEMO OFF."
- 2 Setting the clock
  Select "CLOCK H" (hour), then adjust the hour.
  Select "CLOCK M" (minute), then adjust the minute.
  Select "24H/12H," then "24H" (hour) or "12H" (hour).

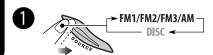
### **3** Finish the procedure.



#### To check the current clock time while...

The power is turned off	0157
Listening to	0157
An FM (non-RDS) or AM  Frequency ←→ Clock	station:
An FM RDS station:  Station name (PS) → Stati  Programme type (PTY) →  the beginning)	
Listening to a disc Elapsed playing time with track number ↔ Clock	3157

### Radio operations





Lights up when receiving an FM stereo broadcast with sufficient signal strength.



Selected band appears.

3 Start searching for a station.



When a station is received, searching stops.

To stop searching, press the same button again.

### To tune in to a station manually

In step 3 above...

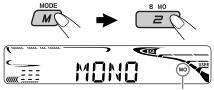




**2** Select the desired station frequencies.



### When an FM stereo broadcast is hard to receive



Lights up when monaural mode is activated.

Reception improves, but stereo effect will be lost.

**To restore the stereo effect,** repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

### **Storing stations in memory**

You can preset six stations for each band.

- FM station automatic presetting— SSM (Strong-station Sequential Memory)
- **1** Select the FM band (FM1 FM3) you want to store into.



2 MODE



"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

### Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.







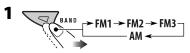




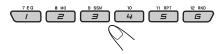


Preset number flashes for a while.

### Listening to a preset station



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



### **FM 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.

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

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 8 and 12)
- Tracing the same programme automatically
  —Network-Tracking Reception (see page 9)
- Programme Search (see page 12)

# Searching for your favorite FM RDS programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

• To store your favorite programme types, see page 8.

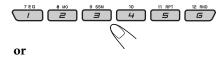




The last selected PTY code appears.



Select one of your favorite programme types.



Select one of the PTY codes (see page 15).



## 3 Start searching for your favorite programme.



If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

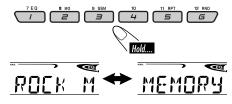
# Storing your favorite programme types

You can store six favorite programme types.

<u>Preset programme types in the number buttons</u> (1 to 6):

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

- **1** Select a PTY code (see page 7).
- **2** Select the preset number (1 6) you want to store into.



Ex.: When "ROCK M" is selected

- 3 Repeat steps 1 and 2 to store other PTY codes into other preset numbers.
- **4** Finish the procedure.



### Using the standby receptions

### ■ TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

The volume changes to the preset TA volume level if the current level is lower than the preset

level (see page 12).
To activate TA Standby Pacentian

### To activate TA Standby Reception



The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)

To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

### To deactivate the TA Standby Reception



The TP indicator goes off.

### PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 12.
The PTY indicator either lights up or flashes.

• If the PTY indicator lights up, PTY Standby Reception is activated.

• If the PTY indicator flashes, PTY Standby Reception is not yet activated.

To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 12). The PTY indicator goes off.

### Tracing the same programme-**Network-Tracking Reception**

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration on page 15).

When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see "AF-REG" on page 11.

### Disc operations

### Playing a disc in the unit

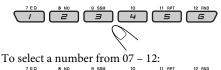


All tracks will be played repeatedly until you change the source or eject the disc.

To stop play and eject the disc	
To fast-forward or reverse the track	Hold
To go to the next or previous tracks	

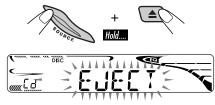
### To locate a particular track

To select a number from 01 - 06:



### **Prohibiting disc ejection**

You can lock a disc in the loading slot.



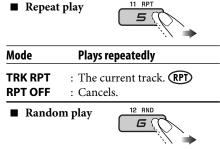
To cancel the prohibition, repeat the same procedure.

### Selecting the playback modes

You can use only one of the following playback modes at a time.

MODE

**2** Select your desired playback mode.

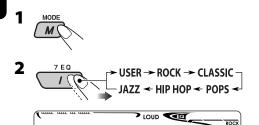


11 RPT

Mode	Plays at random
DISC RND	: All tracks of the current disc.
	RND
RND OFF	: Cancels.

### Sound adjustments

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

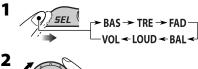


Ex.: When "ROCK" is selected

Preset values Indication (For)	BAS (bass)	TRE (treble)	LOUD (loudness)
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

### Adjusting the sound

You can adjust the sound characteristics to your preference.





### Indication, [Range]

**BAS**\*1 (bass), [-06 to +06] Adjust the bass.

**TRE**\*1 (treble), [-06 to +06] Adjust the treble.

**FAD\***<sup>2</sup> (fader), [R06 to F06] Adjust the front and rear speaker balance.

**BAL** (balance), [L06 to R06] Adjust the left and right speaker balance.

**LOUD**\*¹ (loudness), [LOUD ON or LOUD OFF] Boost low and high frequencies to produce a well-balanced sound at low volume level.

**VOL** (volume), [00 to 30 or 50\*3] Adjust the volume.

- \*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."
- \*2 If you are using a two-speaker system, set the fader level to "00."
- \*3 Depending on the amplifier gain control setting. (See page 12 for details.)

### General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table below.

1



2 Select a PSM item.



**3** Adjust the PSM item selected.



- 4 Repeat steps 2 and 3 to adjust other PSM items if necessary.
- **5** Finish the procedure.



Indications	Selectable settings, [reference page]		
<b>DEMO</b> Display demonstration	<b>DEMO ON</b> : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [5]. <b>DEMO OFF:</b> Cancels.		
CLOCK H Hour adjustment	0 - 23 (1 - 12), [5] [ <i>Initial:</i> 0 (0:00)]		
CLOCK M  Minute adjustment	00 – 59, [5] [Initial: 00 (0:00)]		
24H/12H Time display mode	12H <del>Z</del> 24H, [5] [ <i>Initial</i> : 24H]		
CLK ADJ Clock adjustment	AUTO OFF	: [Initial]; The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal. : Cancels.	
AF-REG Alternative frequency/ regionalization reception	When the rweak  AF  AF REG	<ul> <li>*: [Initial]; Switches to another station (the programme may differ from the one currently received), [9].</li> <li>• The AF indicator lights up.</li> <li>*: Switches to another station broadcasting the same programme.</li> <li>• The AF and REG indicators light up.</li> </ul>	
	OFF	: Cancels.	

To be continued...

Indications	Selectable settings, [reference page]	
PTY-STBY PTY standby	Activates PTY Standby Reception with one of the PTY codes, [8]. <b>OFF</b> [Initial] → PTY codes, [15] → (back to the beginning)	
TA VOL  Traffic announcement volume	[Initial: VOL 15]; VOL 00 — VOL 30 or 50*, [8]	
P-SEARCH Programme search	ON	: Using the AF data, the unit tunes in to another frequency broadcasting the same programme as the original preset RDS station is if the preset station signals are not sufficient. : [Initial]; Cancels.
<b>TEL</b> Telephone muting	MUTING 1/MUTING 2: Select either one which mutes the sounds while using a cellular phone.  OFF : [Initial]; Cancels.	
AMP GAIN Amplifier gain control	You can change the maximum volume level of this unit.  LOW PWR: VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 45 W to prevent them from damaging the speaker.)  HIGH PWR: [Initial]; VOL 00 – VOL 50	
IF BAND Intermediate frequency band	AUTO WIDE	<ul> <li>: [Initial]; Increase the tuner selectivity to reduce interference noises between close stations. (Stereo effect may be lost.)</li> <li>: Subject to the interference noises from adjacent stations, but sound quality will not be degraded and maintains the stereo effect.</li> </ul>

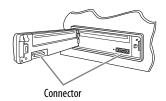
<sup>\*</sup> Depends on the amplifier gain control.

### Maintenance

### How to clean the connectors

Frequent detachment will deteriorate the connectors.

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



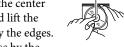
### Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car. Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

### How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



Center holder

 Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

 Make sure to store discs into the cases after use.

### To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



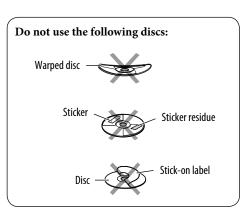
 Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

### To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



### More about this unit

### Basic operations

### Turning on the power

• By pressing SOURCE on the unit, you can also turn on the power. If the source is ready, playback also starts.

### **Turning off the power**

 If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

### **Selecting the sources**

 When no disc is loaded in the unit, "DISC" cannot be selected.

### **Tuner operations**

### Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and stations are stored newly.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

### **FM RDS operations**

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.

- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Frequency Reception. (See page 11.)
- If you want to know more about RDS, visit «http://www.rds.org.uk».

### Disc operations

### **Caution for DualDisc playback**

 The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

#### General

- This unit has been designed to reproduce CDs, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA format).
- When a disc has been loaded, selecting "DISC" for the playback source starts disc play.

### Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

### Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following causes:
  - Discs are dirty or scratched.
  - Moisture condensation occurs on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - CD-R/CD-RW on which the files are written with "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
  - Discs with stickers, labels, or protective seal stuck to the surface.
  - Discs on which labels can be directly printed by an ink jet printer.

Using these discs under high temperatures or high humidities may cause malfunctions or damage to the unit.

### **Changing the source**

 If you change the source, playback also stops (without ejecting the disc).
 Next time you select "DISC" for the playback source, disc play starts from where it has been stopped previously.

### **Ejecting a disc**

 If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc will not play this time.)

### General settings—PSM ■

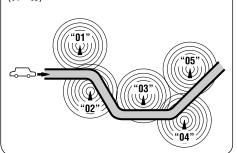
 If you change the "AMP GAIN" setting from "HIGH PWR" to "LOW PWR" while the volume level is set higher than "VOL 30," the unit automatically changes the volume level to "VOL 30."

### **PTY codes**

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

### **Network-Tracking Reception**

Programme A broadcasting on different frequency areas (01 - 05)



### Troubleshooting

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

	Symptoms	Remedies/Causes
General	Sound cannot be heard from the speakers.	<ul><li>Adjust the volume to the optimum level.</li><li>Check the cords and connections.</li></ul>
ē	The unit does not work at all.	Reset the unit (see page 2).
FM/AM	SSM automatic presetting does not work.	Store stations manually.
E	Static noise while listening to the radio.	Connect the aerial firmly.
	Disc cannot be played back.	Insert the disc correctly.
J	<ul> <li>CD-R/CD-RW cannot be played back.</li> <li>Tracks on the CD-R/CD-RW cannot be skipped.</li> </ul>	<ul> <li>Insert a finalized CD-R/CD-RW.</li> <li>Finalize the CD-R/CD-RW with the component which you used for recording.</li> </ul>
Discplayback	Disc can be neither played back nor ejected.	<ul><li> Unlock the disc (see page 9).</li><li> Eject the disc forcibly (see page 2).</li></ul>
Dis	Disc sound is sometimes interrupted.	<ul><li> Stop playback while driving on rough roads.</li><li> Change the disc.</li><li> Check the cords and connections.</li></ul>
	"NO DISC" appears on the display.	Insert a playable disc into the loading slot.

### **Specifications**

#### AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 45 W per channel Rear: 45 W per channel

Continuous Power Output (RMS):

Front: 17 W per channel into 4  $\Omega$ , 40 Hz

to 20 000 Hz at no more than 0.8%

total harmonic distortion. Rear: 17 W per channel into 4  $\Omega$ , 40 Hz

to 20 000 Hz at no more than 0.8%

total harmonic distortion.

Load Impedance:  $4 \Omega$  ( $4 \Omega$  to  $8 \Omega$  allowance)

Tone Control Range:

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

Frequency Response: 40 Hz to 20 000 Hz

 $\label{eq:signal-to-Noise Ratio: 70 dB} $$ Line-Out Level/Impedance: $$ 2.0 \ V/20 \ k\Omega \ load \ (full \ scale) $$$ 

Output Impedance: 1 k $\Omega$ 

### 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  $\mu$ V/75  $\Omega$ ) 50 dB Quieting Sensitivity:

16.3 dBf (1.8  $\mu$ V/75  $\Omega$ )

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]

 $\begin{array}{l} \text{Sensitivity: 20 } \mu V \\ \text{Selectivity: 35 } dB \end{array}$ 

### [LW Tuner]

Sensitivity: 50 µV

#### CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical

pickup (semiconductor laser)

Number of Channels: 2 channels (stereo) Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

### 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 (approx.):

 $182 \text{ mm} \times 52 \text{ mm} \times 150 \text{ mm}$ 

Panel Size (approx.):

 $188 \text{ mm} \times 58 \text{ mm} \times 11 \text{ mm}$ 

Mass (approx.):

1.2 kg (excluding accessories)

Design and specifications are subject to change without notice.

# Having TROUBLE with operation? Please reset your unit

Refer to page of How to reset your unit

