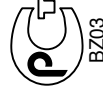




Owner's Manual

TCC-9510

Cassette Player / Receiver with 4-Channel High Power
Output Flip Down Detachable Face Panel & ISO DIN
Mounting Chassis



HOW TO INSTALL & REMOVE THE APPARATUS

	WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

To avoid electrical shock; do not open the cabinet. Refer servicing to qualified personnel. Shock hazard-do not open.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

The lightning flash with arrowhead within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure of sufficient magnitude to constitute a risk to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

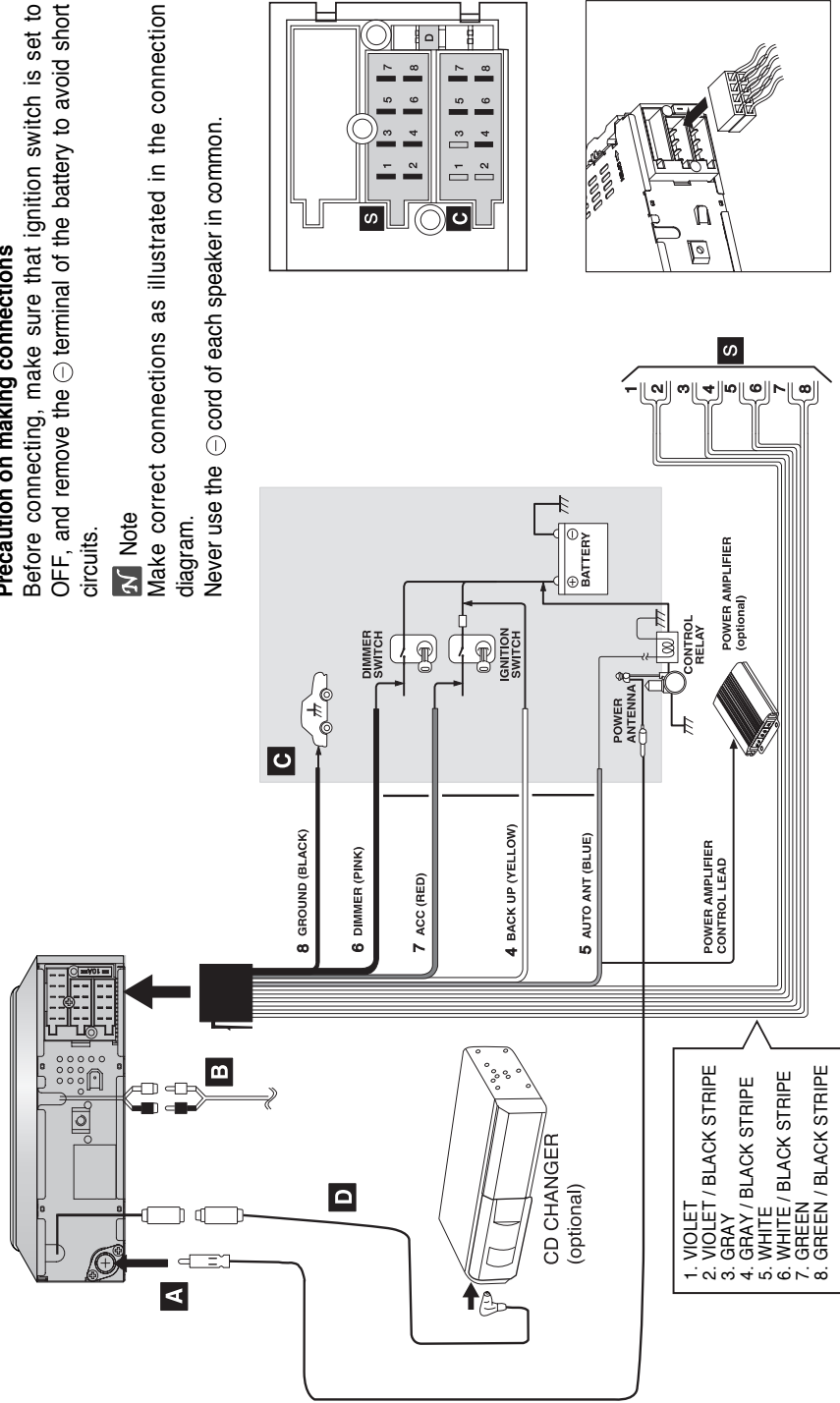
WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION : To prevent electric shock, match wide blade of plug to wide slot, fully insert.

WIRING CONNECTIONS

Precaution on making connections
Before connecting, make sure that ignition switch is set to OFF, and remove the $\ominus$ terminal of the battery to avoid short circuits.

Note
Make correct connections as illustrated in the connection diagram.
Never use the $\ominus$ cord of each speaker in common.

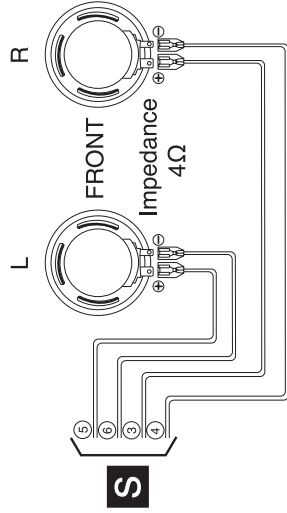


WIRING CONNECTIONS

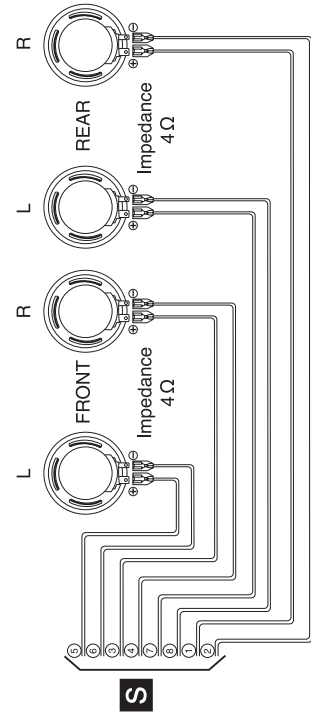
- A** From antenna
- B** From power amplifier's input jack(2channel or 4 channel : optional)
- C** To the wiring of vehicle colors of leads
 - BLACK(Ground lead to be connected to vehicle(metal) body)
 - PINK(Dimmer lead to be connected to Dimmer switch of vehicle)
 - RED(ACC lead to be connected to the terminal from which the power is supplied when the ignition switch is set to ACC)
 - YELLOW(Battery lead to be connected to the back up terminal from which power is always supplied)
 - BLUE(To relay box for full automatic power antenna or power amplifier control lead. Power antenna lead to be connected to the terminal of the control relay switch for vehicles equipped with a power antenna. This lead is not used for vehicles with manual or semiautomatic antennas)
- D** Connect the CD changer(optional)

Your car receiver works as control unit for a CD changer which you can buy. If not yet done, later.
The suitable cord shown on the scheme will be provided together with the CD changer.

2 - Speaker Connections



4 - Speaker Connections



LOUD SPEAKER

- | | | | |
|------------------|----------------|-----------------|---------------|
| 1. +Right Rear | : VIOLET | 5. +Left Front | : WHITE |
| 2. - Right Rear | : VIOLET/BLACK | 6. - Left Front | : WHITE/BLACK |
| 3. +Right Front | : GRAY | 7. +Left Rear | : GREEN |
| 4. - Right Front | : GRAY/BLACK | 8. - Left Rear | : GREEN/BLACK |

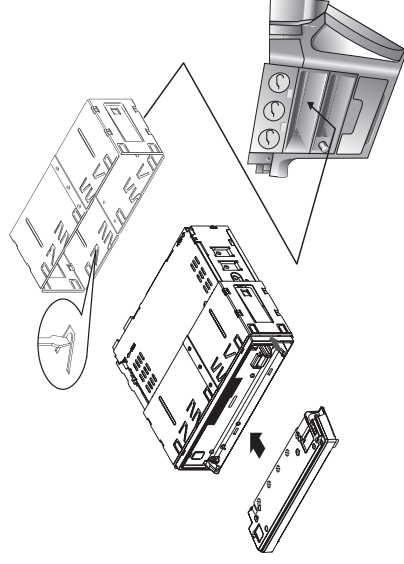
HOW TO INSTALL & REMOVE THE APPARATUS

NOTE !

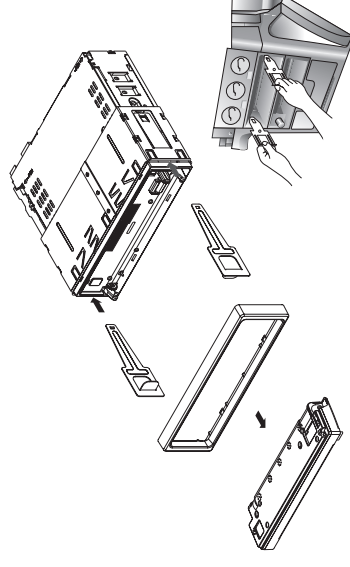
- Use only the supplied mounting hardware for safe and secure installation.
- Please consult your nearest dealer if you get any problems with installation.

HOLDER

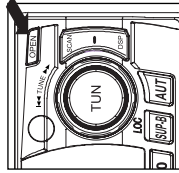
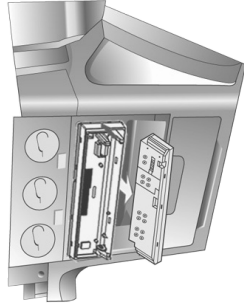
- Insert the holder into the car radio slot. Fasten the holder by pulling and bending the tabs which are located around the holder as illustrated.



- Press the open knob to open up the front panel and detach it by pulling it towards you.
- Insert the enclosed handles into the slits of the unit, as illustrated, while pressing the handle lightly, then pull the unit out of the holder.



FRONT PANEL

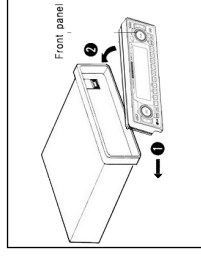


Detaching the front panel

1. Press the open knob to open up the panel.
2. Holding the middle upper side of the panel, pull it straight out towards the arrow direction. (See the figure)
3. The red lamp blinks to tell you that the front panel has been detached. (It could be stolen) : Option
4. Keep the front panel in the supplied protection case.

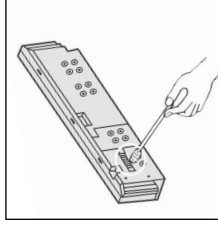
Attaching the front panel

1. Holding the panel at its top and bottom edges.
2. Attach one side of the panel lightly first, then push the other side of the panel into the unit.
3. Do not press the panel hard against the unit. It can be attached by pressing it lightly. And beware not to drop it.

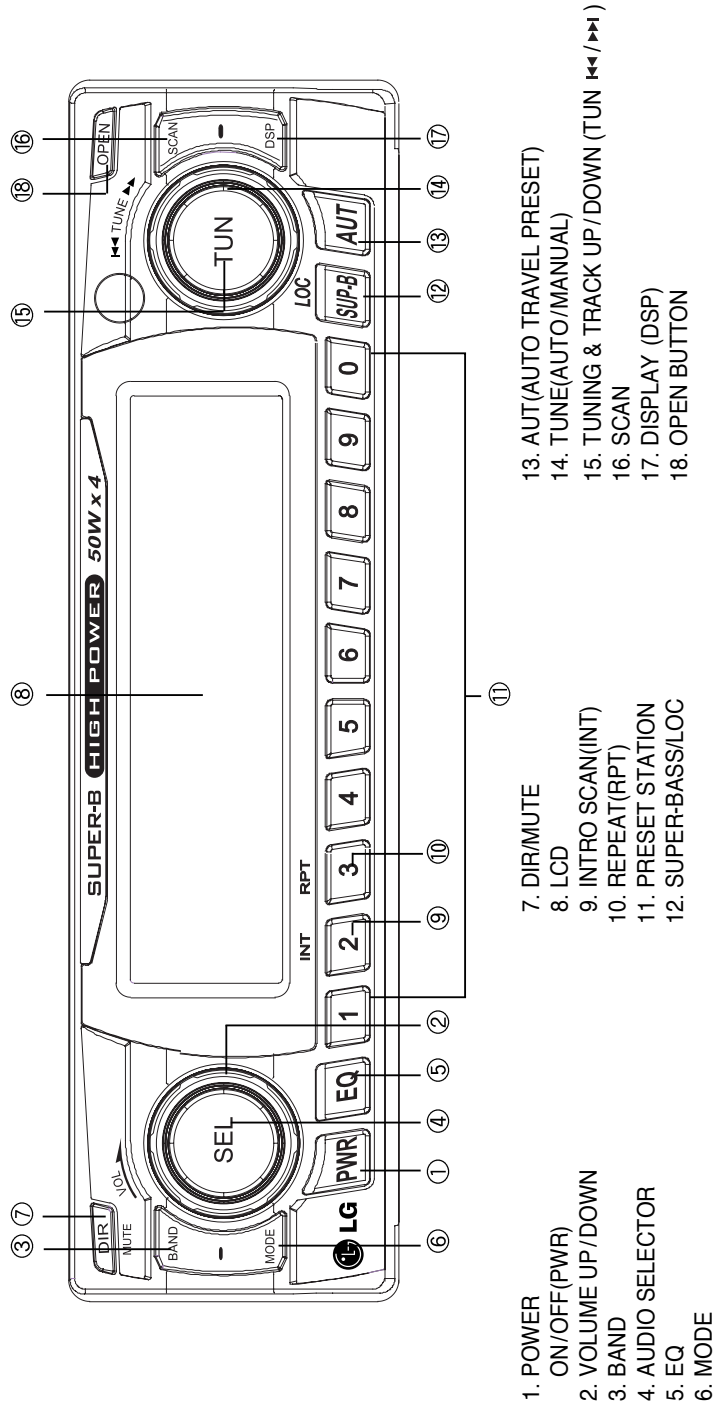


Keep in mind:

- If it works malfunction, take the panel off and put it back again.
- Do not touch the contact pins on the rear of the front panel, this can cause contact errors. If the contacts are not clean, clean contacts with a cotton swab dipped in alcohol.
- Do not expose the front panel to direct heat or cold.
- Be careful not to splash juice or other soft drinks into the car audio.
- Do not apply too much force. Otherwise, the panel may be damaged.
- Never take the front panel apart.
- When front panel is open, beep sound once after 57 seconds, then beep sound twice after 58 seconds and power turns off at 1 minute.



FUNCTION DESCRIPTION, CONTROLS



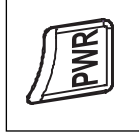
RADIO

1. POWER ON/OFF (PWR) ①

To switch the audio system on/off, press power button lightly.

Simultaneously, the system memorizes all information about its current setting, and restores the information when you turn the system on by pressing the power on/off button again.

You can also turn the system on by pressing BAND or MODE button instead of power button.

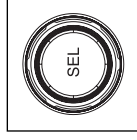


2. SOUND CONTROL (VOLUME, ②)

Rotate outer SEL button clockwise/counterclockwise to increase/decrease the VOLUME, BASS, TREBLE, BALANCE, FADER, depending on what you select using the audio selector.

3. AUDIO SELECTOR (SEL, ④)

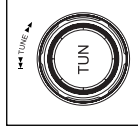
Pressing the audio select button, you can adjust BASS, TREBLE, BALANCE, FADER and VOLUME. Select the item you want to adjust by pressing the audio selector repeatedly. Adjust the selected item within 5 seconds. (After 5 seconds the function will again serve as the volume control.)



4. TUNING UP / DOWN CONTROL (⑤)

During the radio mode :

Rotate the Tune button clockwise / counterclockwise to choose the radio station which you want to listen to step by step. Press the Tune button to the higher or lower station. The sound will be muted during seeking automatically.



In case of clock mode :

This button is to hour/minute up-adjust.

5. PRESET STATION (Button 1-10, ⑥)

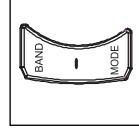
Any station may be preset into these buttons by simply pressing and holding the buttons down for 2 seconds. Up to 20FM (10 in FM1, 10 in FM AUT) 20 FM OIRT (10 in FM OIRT, 10 in FM OIRT AUT) and 30AM stations (10 in MW1, 10 in MW2 and 10 in MW AUT) can be assigned to the preset station buttons.

6. BAND CONTROL (BAND, ③)

Step cyclically through the tuning bands in the order :

FM-1 → FM(OIRT) → MW-1 → MW-2 → FM-1

...

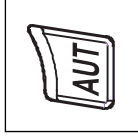


RADIO/SOUND/DISPLAY

7. AUTO TRAVEL PRESET (AUT, ⑬)

Press the AUT button within 1.5 seconds, you can change the radio mode to the AUT function that operates all over the radio band. The display will show you the message "AUT". To return, press the AUT button within 1.5 seconds again.

Press the AUT button for more than 1.5 seconds it starts to search for the 10 strongest FM or AM stations of the region where you are driving to be stored. To return to the stations you manually set, press the band button lightly.

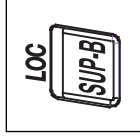


8. Super-BASS (SUP-B, LOC, ⑫)

Press this button to select boosting the bass sound or normal sound. The message "S-BASS" appears on the display while you enjoy the BASS boost. To cancel, press this button again.

LOCAL STATION (LOC, ⑫)

When pressed this button for more than 1.5 seconds, it displays the message "LOC". This is used to change the tuning stop level during search. The LOCAL mode is established when the button is pressed to its ON position. At this position, stations with weak transmissions signals are skipped. This function makes it possible to scan quickly all those stations with stable reception. Press the button once more than 2 seconds again to its OFF position to scan stations with weak signals.

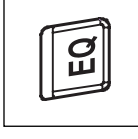


9. MUTE (⑰)

Press this button to mute the sound temporarily. To cancel the mute mode, press this button again.

10. EQ (⑮)

Press the EQ button and then, rotate volume to select from the different sound effects of Pop, Rock, Classic and Flat. Adjust the level of Treble and Bass in EQ-User's mode only.



11. SCAN (SCAN, ⑯)

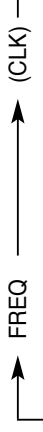
When this switch is pressed during broadcast reception, scan tuning will start, stations are tuned in automatically and held 5 seconds, after which scanning resumes until the next station is located. Pressing this switch again will stop scan tuning.

12. DISPLAY CONTROL (DSP, ⑰)

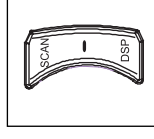
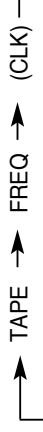
When pressed below than 1.5 seconds.

- present clock is displayed.
- another key is not pressed during 5 seconds, it is changed priority display states.

(1) In Radio Mode

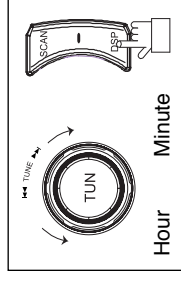


(2) In TAPE Mode



During clock displayed

Press the DSP button and simultaneously turn the Tune button to adjust clock.
(T-UP:Minutes, T-DN:Hour)



CASSETTE PLAYER

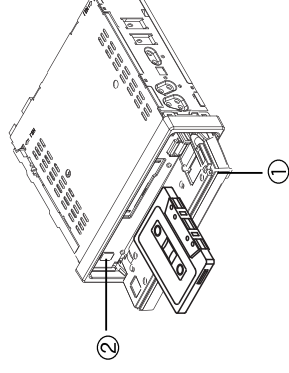
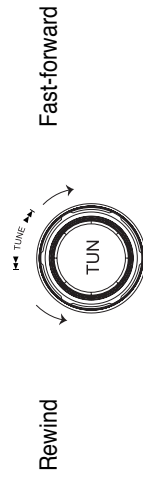
Listening to a tape

- Open the front panel by pressing the open (18) button.
- Insert a cassette tape.
- Close the front panel.
- Play will start automatically.
- If a tape is already inserted, press the DIR button.

Fast winding the tape (TUNE, 15)

During playback, rotate the Tune button clockwise / counterclockwise to rewind / fast forward.

To start playback during fast forwarding, press the DIR button again.



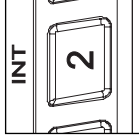
13. TAPE Ejection

- ① Open the front panel by pressing "OPEN" (18).
- ② Press the "▲" button to remove your tape from the unit.

CASSETTE PLAYER

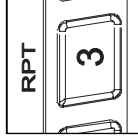
14. INTRO SCAN (INT, ㉑)

Press the "INT" button, it displays "INTRO" and then it starts to play the first 10 seconds for songs.



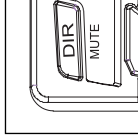
15. REPEAT Function (RPT, ㉒)

If you want to listen to a song repeatedly, press the RPT button, then "RPT" appears on the display. This function will operate right after the song which you are listening. Press the button once again, the function returns to normal play mode.



16. DIR (DIR, ㉓)

Press this button briefly you can change the side of the tape that is playing.
Press this button more than 2 seconds, to mute the sound temporarily.
To cancel the mode press again.

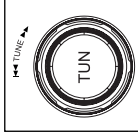


To go to the beginning of a desired track

17. Automatic Music Search (AMS)

During playback, press the TUN button once, then rotate the TUN button clockwise / counter-clockwise.

Then the Tape will fast forward/rewind automatically to play next or previous song (Track).

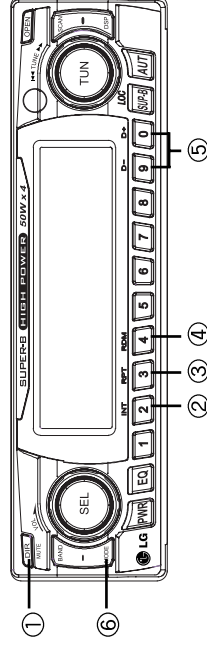


Note:

The AMS function may not work when the blanks between tracks are shorter than 4 seconds there is noise between tracks there are long section of low volume or quiet.

The AMS enables you to locate the beginning of the next song(track) or the previous song(track).

OPTION : CD - CHANGER



- ① DIR(CDC)
- ② INTRO SCAN
- ③ REPEAT
- ④ RANDOM
- ⑤ DISC SELECTOR(D-/D+)
- ⑥ MODE

1. CDC MODE SELECTOR (MODE, ⑥ / DIR, ①)

Press the MODE button to change to CD changer mode.
If you press DIR button, CD sound will be muted (PAUSE mode).
To play during the pause press this button again.

2. INTRO SCAN (INT, ②)

Press the INT button to know what songs are on the CD during playback, then it starts to play the first 10 seconds of the tracks which are from the next song to the last one, while the "INT" appears on the display.

Press the INT button once more to listen to the song you want to hear while this function is operating, then "INT" disappears.

Press the INT button more than 2 seconds to know what CD are on the CDC during playback, then it starts to play the first 10 seconds of the CD which are from the next CD to the last one, while the "INT DISC" appears on the display.

3. REPEAT FUNCTION (RPT, ③)

Press the Repeat button to play the same track continuously.
Press the Repeat button more than 2 seconds to play the same CD continuously.

4. RANDOM FUNCTION (RDM, ④)

If you want to enjoy the songs in a random order, press this button. Then "RDM" appears on the display with playing in a random order. Pressing the button once again the function returns to the normal play mode.

If you want to enjoy the CD in a random order, Press this button more than 2 seconds.

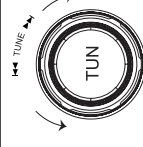
Then "RDM DISC" appears on the display with playing in a random order.

5. DISC SELECTOR (D- / D+, ⑤)

You can change the discs pressing the "D-" or "D+"

※ In case of inserting 6 disc changer.

DISC-1 → DISC-2 → DISC-3 → DISC-4 → DISC-5 → DISC-6



TRACK UP/DOWN Control. (TUN ◀◀ / ▶▶)

- Rotate the TUN button clock wise / counter clock wise to choose the tracks which you want to listen.

SPECIFICATION

GENERAL

Power supply	12 - 15V DC	0.35%
Speaker impedance	4 or 8 ohm	50dB
Output Power	Maximum 50W x 4CH	35dB
Current Drain	Max. 10A	63Hz-10kHz(±3dB)
		4.75cm/sec
		178 × 50 × 152.5(mm)
		1.4 Kg

TUNER SECTION

Frequency Range	FM	OIRT	MW
Stereo separation	87.5-108MHz	65-74MHz	522-1620KHz
Signal to Noise ratio	30dB	30dB	50dB
Frequency step (Manual)	55dB	55dB	9KHz
	50KHz	10KHz	

NOTE !

Designs and specifications are subject to change without notice for improvement.

The working life of this product is 7 years since the date of purchase.

