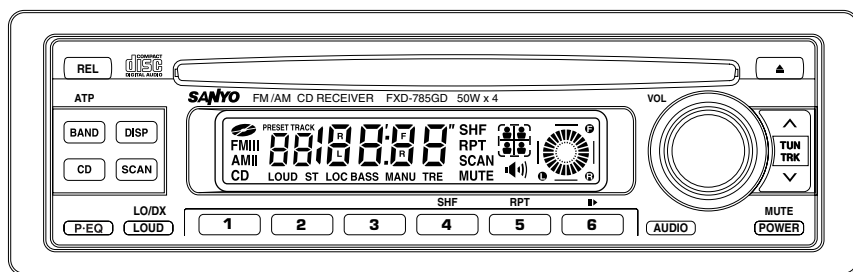


FXD-785GD



Full Panel Detachable
High Power FM/AM Stereo Receiver
Compact Disc Player
ISO Mounting with Removable Trim Ring

(English)
OPERATING INSTRUCTIONS ... GB-1~GB-18

CONTENTS

COMPACT DISC CARE	2
DIGITAL DISPLAY	3
DETACHABLE FRONT PANEL	4
GENERAL OPERATION	5
ADJUSTING EQUALIZER AND SOUND STAGE	7
RADIO OPERATION	9
CD OPERATION	11
ERROR SIGNS	12
HINTS FOR PROPER AND SAFE OPERATION	13
TROUBLESHOOTING	14
ACCESSORIES AND HARDWARE	15
INSTALLATION	15
UNIT REMOVAL	16
ELECTRICAL CONNECTIONS	17
LINE OUT CONNECTIONS	18

CAUTION

- This unit is designed to operate on 12 volts DC, **NEGATIVE** ground electrical systems only.
- When fuse replacement is necessary, use only a 10 amp fuse. Do not replace with a higher rated fuse. If the fuse blows often, carefully check all electrical connections for any short circuits and have your car's voltage regulator checked also.
- Do not install the unit where it will be exposed to direct sunlight or hot air discharged from the car heater.
- Do not expose the unit to water or moisture.
- To avoid damaging the unit, never insert anything other than a compact disc into the disc slot.
- This unit should not be adjusted or repaired by anyone except qualified service personnel. If servicing is required, return the unit to an authorized SANYO mobile audio dealer.
- Use the Controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Changes or modifications not expressly approved by SANYO may void the user's authority to operate this equipment.

COMPACT DISC CARE

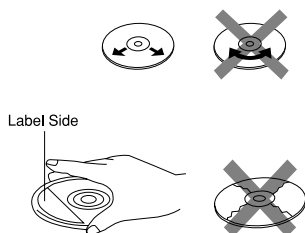
Dirt, dust, scratches and warpage can cause a deterioration in the sound or intermittent skipping some tracks during play.



- This unit has been designed to play compact discs bearing the identification logo shown on the left. No other discs can be played.



- Do not use non-conventional discs such as heart-shaped, octagonal discs, etc. The player could be damaged.



- Fingerprints and dust should be carefully wiped off the signal surface of the disc (glossy side) with a soft cloth. Wipe in a straight motion from the inside to the outside of the disc. Unlike conventional records, the compact disc has no grooves to collect dust and debris. Small dust particles will have no effect on reproduction quality.
- Do not insert a disc which is cracked into the unit.
- Do not apply paper or write anything on the surface of the disc.



- To prevent warping the disc, do not expose it to direct sunlight, high humidity or high temperatures for extended periods of time.



Benzene Thinner Cleaning spray



- Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact discs. These chemicals will permanently damage the plastic surface of the disc.
- When not using the disc player for extended periods of time, remove the compact disc and return it to the plastic storage case. This will protect the disc from dust and exposure to the sun.

Recommended CD-R/RW Media

Data may not be properly written to CD-R/RW media depending on the quality of the media. If this happens, the data may not be reproduced correctly. We recommend the following manufacturers to insure proper quality of the media.

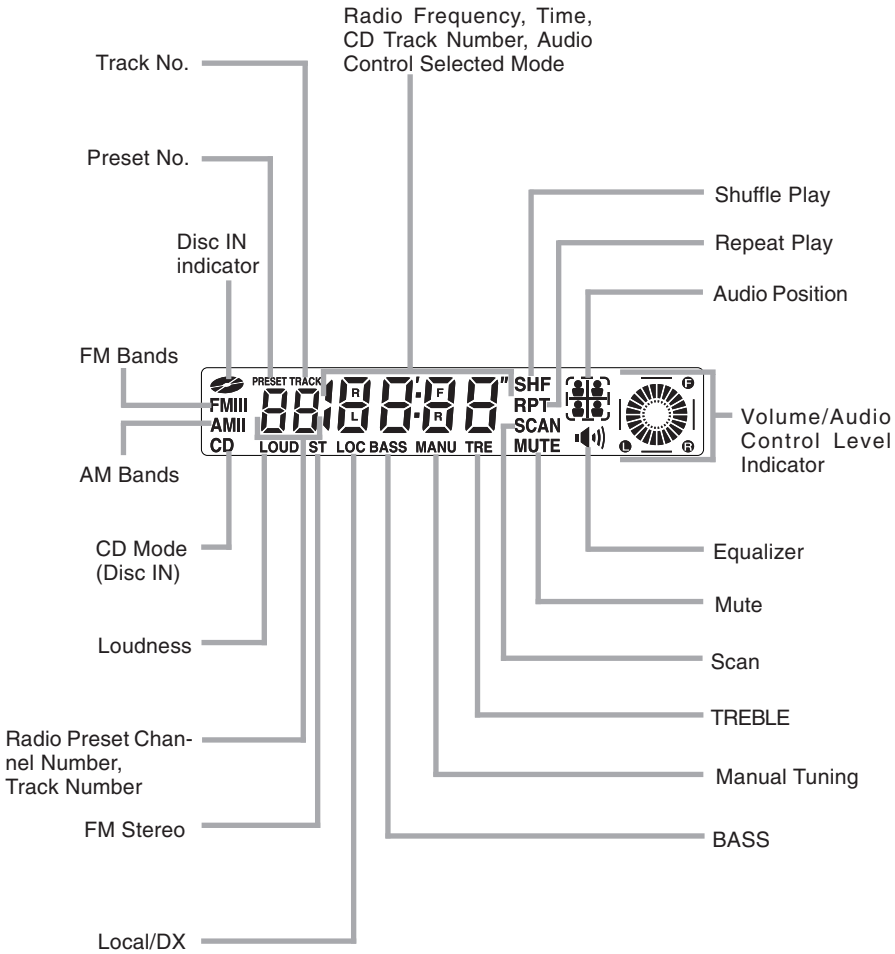
CD-R Media

TDK USA Corp., Taiyo Yuden (U.S.A.), Inc., Ricoh Corporation, Eastman Kodak Company, Maxell Corporation of America, Mitsubishi Chemical Corporation, Fuji Photo Film U.S.A., Inc., Mitsui Chemicals, Inc., Sony Corporation of America, Philips Electronics North America Corporation, Imation Corp.

CD-RW Media

TDK USA Corp., Ricoh Corporation, Mitsubishi Chemical Corporation. Additionally, CD-R media compatible with various speeds such as 2X and 1X-4X are available. Please refer to the instruction manuals of the drive and the recording software you are using to selection of the correct media.

DIGITAL DISPLAY

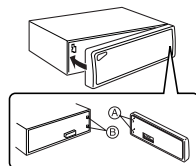


DETACHABLE FRONT PANEL

The front panel is designed to be removable for anti-theft purposes. It is recommended that you remove and carry the front panel with you when you leave your car.

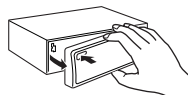
HOW TO ATTACH THE FRONT PANEL

Align the right side of the panel with the stopper (A), and then push the left side of the panel into the unit (B) until it clicks.



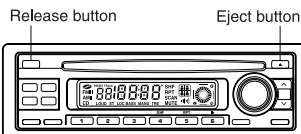
HOW TO DETACH THE FRONT PANEL

Press the release button (REL) to release the front panel. Pull the entire panel to remove it from the unit.



RETURNING TO THE INITIAL SETTINGS

When the eject button is pressed for more than 10 seconds, the microcomputer of the unit returns to the initial settings. If the display window is not properly shown or the unit malfunctions, press the eject button for more than 10 seconds.



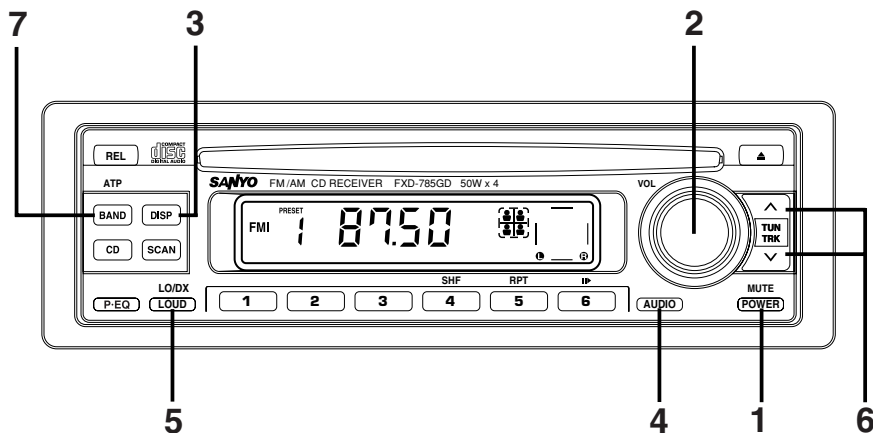
Note

The unit will not operate if it is installed incorrectly.

⚠ CAUTION

- Do not attempt to remove the panel in a manner other than that described above.
- When installing the panel, do not force it into the unit.
- Do not touch the connection terminals of the panel or the unit. It may cause poor contact.
- Use a clean, dry cloth when cleaning the terminals.
- Keep the panel out of direct sunlight and high temperatures.
- Prevent the panel from coming into contact with benzene, thinner, or insecticides.
- Do not drop the panel.

GENERAL OPERATION



TURNING THE POWER ON 1

Install the front panel and press the POWER MUTE button 1 when ACC is on.

TURNING THE POWER OFF 1

Press the POWER MUTE button 1 for more than 2 seconds. Display will revert to clock indication.

VOLUME LEVEL CONTROL 2

Rotate the VOL dial 2 to adjust the volume level.

MUTING THE SOUND 1

Press the POWER MUTE button 1 while the receiver is on. While muting the sound, the MUTE indicator MUTE on the display is blinking. To restore the previous volume level, press POWER MUTE button 1 again.

SETTING THE CLOCK 3, 2, 6, 7

The clock uses a 24-hour display system.

1. Press the DISP button 3 for more than 2 seconds.

2. Press the following buttons to set the clock.

VOL dial 2 : Adjust the hour and minutes.

TUN/TRK ^ 6 : To activate Hour blink.

TUN/TRK v 6 : To activate Minute blink.

BAND ATP 7 : Adjust the minutes to zero.

(Example) 12:29 → 12:00

12:30 → 13:00

3. Press the DISP button 3 to activate the clock.

IGNITION-OFF CLOCK RECALL 3

Press the DISP button 3 while the ignition switch is in the "OFF" position.

The display will illuminate showing the time and then automatically shut off after 5 seconds.

ADJUSTING THE SOUND CHARACTERISTICS4, 2, 1

1. Each time you press the AUDIO button 4 until the desired mode is displayed.
2. Rotate the VOL dial 2 to adjust the selected item. Make the adjustment within 5 seconds after selecting. After 5 seconds, the display window will revert to display priority.
 - EQ disp
Displays the current setting of equalizer curve, if the equalizer has been set.
 - The LE (Level Meter) can be selected from Hi(High sensitivity), Lo(Normal sensitivity), and OFF(no indication).
 - MUTE LEVEL controls the volume level used when the sound is muted. You can adjust the level by which the volume is reduced from the normal volume level.

Adjustment Range

EQ disp	(Equalizer will be displayed if set up)		
BASS	BASS -5		BASS +5
TREBLE	TREB -5		TREB +5
BAL	L9 (Full left)		R9 (Full right)
FAD	F9 (Full front)		R9 (Full rear)
LE(Level Meter)	Hi	Lo	OFF
MUTE LEVEL	- 0	~	-40

LOUDNESS EFFECT 5

When listening to music at low volume levels, this feature will boost the extremes of the bass and treble ranges to compensate for the negative characteristics of human hearing.

Press the LOUD LO/DX button 5. The "LOUD" indicator appears in the display window. Pressing the button again will cancel this feature.

LOCAL/DISTANT (LO/DX) SELECTION 5

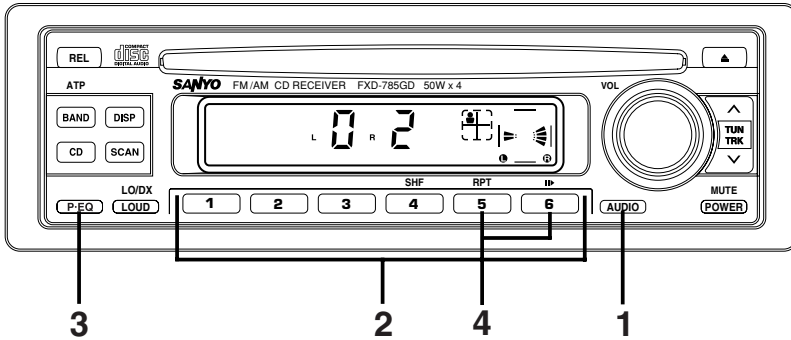
This feature is used to select the strength of the signals at which the radio will stop during Automatic Tuning. Press the LOUD LO/DX button 5 for more than 2 seconds to select the Local (LO) setting and only the strongest (local) stations will be received. The "LOC" indicator appears in the display window. Pressing again for 2 seconds will select the Distant setting and the radio will stop at a wider range of signals, including weaker more distant stations. The "LOC" indicator will go out on the display window.

SWITCHING THE DISPLAY3

Each time you press the DISP button 3, the display window will change as shown below ;

- **Radio mode**
Frequency and Clock
- **CD mode**
Elapsed track time and Clock

ADJUSTING EQUALIZER AND SOUND STAGE



ADJUSTING THE SOUND STAGE 1

You can adjust the position of sound stage to best serve a particular seat.

TO MEMORY THE SOUND STAGE 1,2

1. Press the AUDIO button 1 to select the BALANCE or FADER adjustment mode.
2. Adjust the desired sound stage with BALANCE or FADER.
3. Press the appropriate Preset buttons 2 for more than 2 seconds. The Audio position indicator blinks and adjusted sound stage is stored.

TO CALL THE SOUND STAGE 2


Press the appropriate Preset buttons 2 to call the desired sound stage during the BALANCE or FADER adjustment mode. The Preset buttons are factory-set to the following conditions. Each time you press the preset buttons in the BALANCE or FADER adjustment mode, the audio position indicator changes as follows ;

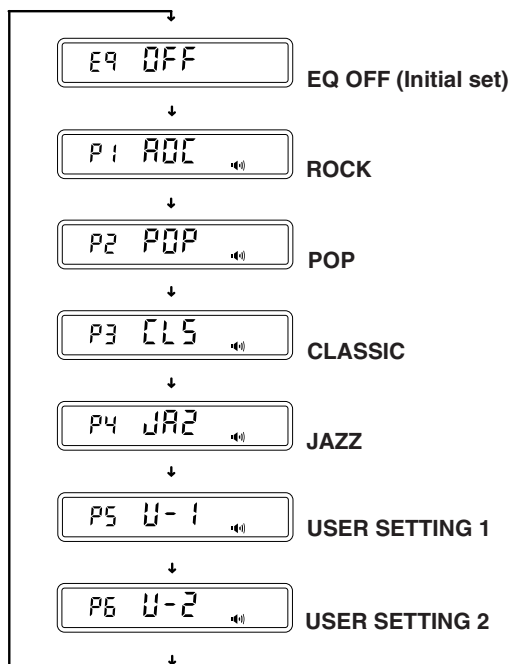
			BALANCE	FADER
P 1		: For the left seat		
P 2		: For the front seat		
P 3		: For the right seat		
P 4		: For the rear seat		
P 5		: For all the seat		
P 6		: For all the seat		

SETTING THE 6 MODE PRESET EQUALIZER3

You can select/store the equalizer settings.

SELECTING THE EQUALIZER CURVE 3

Press the P•EQ button 3 to display the current equalizer setting on the display window. Each time you press the P•EQ button 3, the equalizer curve change as follows. (“”) will be light except EQ OFF).



ADJUSTING THE EQUALIZER CURVE 1,4

You can store and adjust the equalizer settings for frequency and level.

1. Press the AUDIO button 1 to select the BAS or TRE adjustment mode.
2. Adjust the desired sound characteristics with BAS/TRE/LOUD.
3. Press the Preset 5 or 6 buttons 4 for more than 2 seconds to store the equalizer curve.

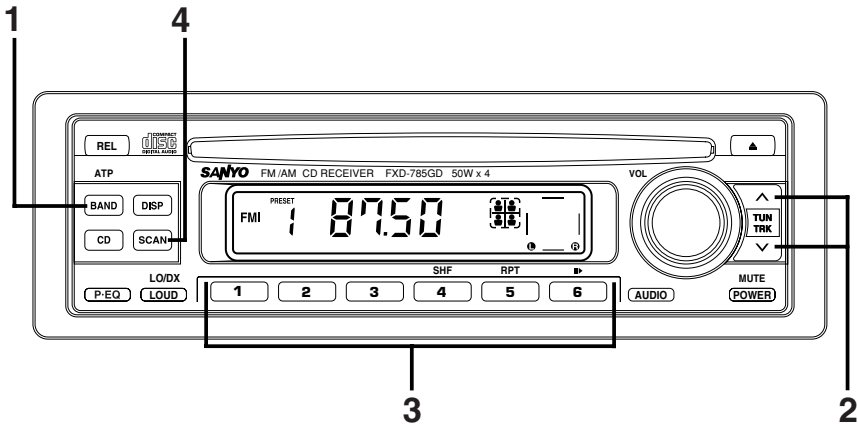
P 5  : USER SETTING 1

P 6  : USER SETTING 2

SOURCE TONE MEMORY

- Settings for BASS, TREBLE, LOUDNESS and 6 mode preset equalizer can be made to each of the following modes independently : FM, AM, and CD.
- When you set the 6 mode preset equalizer, the BAS/TRE set in audio control replace the 6 mode preset equalizer.

RADIO OPERATION



SELECTING RADIO MODE 1

Press the **BAND ATP** button 1 to switch from CD mode to the radio mode.
Each time the **BAND ATP** button 1 is pressed, the selected band changes as shown below.

FM I → FM II → FM III → AM I → AM II

RADIO TUNING 2

- Automatic tuning
Press the **TUN/TRK** **^** or **v** Button 2.
When the button is pressed, the system will start automatic tuning and stop at the next receivable station.
- Manual tuning
To select higher frequency station, press the **TUN/TRK** **^** button 2 for more than 0.5 seconds. The "MANU" indicator appears in the display window.
To select lower frequency stations, press the **TUN/TRK** **v** button 2 for more than 0.5 seconds.
To quickly scan up or down in frequency, press and hold the **TUN/TRK** **^** or **v** button 2. Release the button when the display approaches the desired frequency, then press and release the button repeatedly until the desired frequency is displayed.
After 4 seconds of completing Manual Tuning, the tuning control will revert to the Automatic Tuning mode.

STORING PRESET STATIONS 3

The preset buttons 3 can be used to store 6 stations in each band (FM 1, FM 2, FM 3 and AM 1, AM 2) for convenient access to your favorite stations.

- Programming stations
 1. Select the desired band, then tune in the station you want to store in memory.
 2. Press and hold one of the preset buttons 3 for more than 2 seconds until the frequency indicator flashes twice. Repeat steps 1. and 2. to program additional stations.
- Quick tuning
Select the desired band, then press one of the 6 preset buttons 3.

ATP (AUTO TRAVEL PRESET) OPERATION 1

The Auto Travel Preset function searches for and memorizes the 6 strong stations in one of the two bands (FM III, AM II).

This feature is useful when you are driving in an unfamiliar location and want to memorize local stations without changing the standard preset stations.

A total of 12 stations (6 FM and 6 AM) can be programmed.

- To set the stations
Select the desired band. Press and hold the BAND ATP button 1 for more than 2 seconds.
- Quick tuning of ATP stations
Select the desired band, then press one of the six preset buttons.

Note

This function is available for FM III and AM II.

SCAN OPERATION 1, 4

- 1.** Press the BAND ATP button 1 to select the desired band.
- 2.** Press the SCAN button 4. The system will select and receive each receivable station for 10 seconds.
- 3.** To stop scanning and retain the station currently selected, press the SCAN button 4 again.

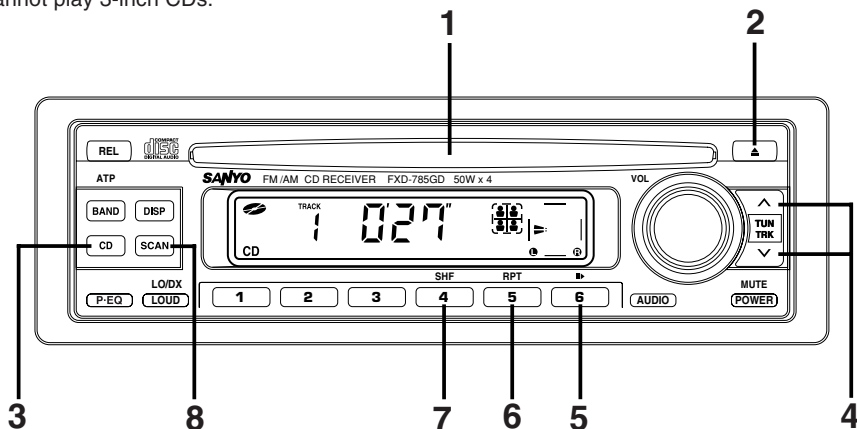
PRESET SCAN OPERATION 1, 4

This function scans each of the preset stations stored in the selected band (both manual preset and auto travel presets).


- 1.** Press the BAND ATP button 1 to select the desired band.
- 2.** Press the SCAN button 4 for more than two seconds. The system will select and receive each receivable preset station for 10 seconds.
- 3.** To stop scanning and retain the station currently selected, press the SCAN button 4 again.

CD OPERATION

You can play CD-Rs (recordable CDs) designed for audio use on this unit.
You cannot play 3-inch CDs.








LOADING AND EJECTING THE CD 1

Insert a disc into the CD slot 1 and the CD player will start.
The system remains in CD mode and “” appears in the display.
Press the eject button 2 to eject a disc.



SWITCHING TO CD MODE 3

Press the CD button 3 with the power on to switch from radio mode to CD mode.
When the CD mode is switched on while a disc is loaded, play resumes from the point at which play was stopped.
When the entire disc has played, the unit returns to the first track and play resumes.
The CD player continues playing the disc until the BAND ATP button is pressed, or the disc is ejected.

SKIPPING TRACKS 4

Press the TUN/TRK button  4 to skip to the beginning of the next track.
Press the TUN/TRK button  4 to skip to the beginning of the track currently playing.
Press the TUN/TRK button  4 twice to skip to the beginning of the previous track.
Press and hold the TUN/TRK  or  button 4 for more than 0.5 seconds to search quickly (with sound) in the forward or reverse direction.
When the button is released, the CD resumes normal play.

Notes

- Some CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play CD-R that is not finalized. (A process necessary for a recorded CD-R disc to be played on the audio CD player.)
- The unit will turn-on automatically when a CD is inserted if the ignition switch is “ON”.
- MIX MODE CD
We call the CDs which record both data and music the Mix Mode CD.
This unit plays only the music track on the Mix Mode CD. Even if you play the track where some data are written, no sound can be heard. In such a case, press the TUN/TRK  ,  button to change the track to the music one.

PLACING THE CD IN PAUSE MODE 5

While playing a CD, press the Preset 6 (⏸) button 5.
To resume playing, press the Preset 6 (⏸) button again.

REPEAT MODE 6

Press the Preset 5 (RPT) button 6 to play the current track repeatedly.
The “RPT” indicator appears in the display window.
To cancel this mode, press the Preset 5 (RPT) button 6 again.

SHUFFLE MODE 7

This function plays the tracks on a CD in random order.
Press the Preset 4 (SHF) button 7 to begin shuffle play.
The “SHF” indicator appears in the display window.
Press the ▲ button 4 to select another random track.
To cancel this mode, press the Preset 4 (SHF) button 7 again.

SCAN MODE (PLAYING THE BEGINNING OF EACH TRACK) 8

This function plays the first 10 seconds of each track sequentially.
Press the SCAN button 8 to begin the scan mode.
The “SCAN” indicator appears in the display window.
To cancel this mode, press the SCAN button 8 again.

ERROR SIGNS

If a problem should occur while operating the CD player, one of the following error signs may be displayed. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your nearest dealer.

Message	Cause	Remedy
E-01	Dirty disc. Scratched disc. Up-side-down.	Clean the disc. Replace the disc. Check the disc.
E-02	Focus error.	Try ejecting and re-inserting under normal temperature conditions.
E-03	Data and focus error,	Under normal temperature conditions, eject and insert clean, undamaged disc properly.
E-04	Mechanical problem.	Eject and re-insert.
E-05	Eject and loading error.	Eject and re-insert.

HINTS FOR PROPER AND SAFE OPERATION

- **Condensation**

Moisture can condense on the optical lens of the CD player during humid or rainy days, or after the car heater is turned on. If this occurs the disc player may not function properly. To remedy the situation, remove the disc from the unit and wait approximately one hour. This should allow the moisture to evaporate and restore normal operation.

- **Temperature Consideration**

The unit may not operate correctly in extremely hot or cold temperatures. Avoid exposing the unit to extremely high or low temperatures.

- **Interruptions in the sound (skipping)**

When the car is driven on very rough surfaces, the sound from the CD player may skip and be interrupted. This will not cause any damage to the disc or the player. If this occurs, wait for the road surface to improve before using the CD player.

- **Safety**

For safer driving, keep the volume at a moderate level to enable you to hear outside sounds (such as emergency vehicle sirens).

- **Cleaning the unit**

Clean the unit with a soft, dry cloth. Stains should be removed by wiping the surfaces with a soft cloth immersed in lukewarm water and wrung dry. Never use strong chemicals or solvents. These will damage the finish of the unit.

If the connectors of the unit and front panel are contaminated, malfunctions may occur. Detach the front panel and clean the connectors with an alcohol dampened cotton swab.

- **Disc care**

When not using the disc player for extended periods, remove the compact disc and return it to the plastic storage case. Do not leave a disc partially ejected from the player. If an ejected disc remains in the loading slot for approximately 10 seconds, the player will reload the disc to prevent damage.

- **Servicing**

Should a problem develop, do not open the unit or try to repair it yourself. If servicing is required, bring the unit to a Sanyo Authorized Service Center.

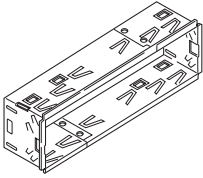
TROUBLESHOOTING

Sometimes a simple operational error or a mistake in the wiring can appear to be a problem with the unit. Before having the unit serviced, refer to the troubleshooting chart below.

Symptom	Cause	Solution
The compact disc does not play when inserted into the unit.	The volume control is turned down.	Turn up the volume control.
	The power connections are not wired correctly.	Check the +12V and ground connections.
No power.	The vehicle ignition is switched off.	Switch the ignition to the "ON" or "ACC" position.
	The fuse is blown.	Replace the fuse with another 10A fuse.
The unit does not work properly (Eject, Load, Play)	The microcomputer has been affected by electrical noise.	Eject the disc, then insert it again.
The sound from the CD player skips.	The road surface is rough.	Wait for the road surface to improve before playing a disc.
	The unit is not mounted securely.	Install the unit securely. Be sure to use the rear strap if the vehicle does not provide support for the rear of the unit. (See page 16)
	The disc is defective.	Try another disc. If it plays properly, the first disc may be defective.
	The disc is dirty.	Clean the disc as explained on page 2.
No radio reception.	The antenna cable is not connected.	Insert the antenna cable firmly into the antenna jack on the unit.
The radio does not stop on any stations when automatic tuning is used.	The signal are weak.	Select a station using manual tuning.

ACCESSORIES AND HARDWARE

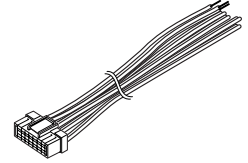
INSTALLATION



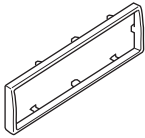
Mounting Bracket
(Half Sleeve) × 1



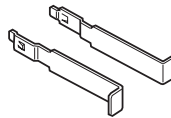
Mounting Strap
and Screws × 1



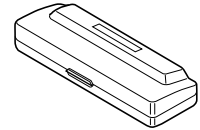
Wire harness
× 1



Removable Trim Ring
× 1



Unlock Levers
× 2



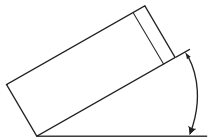
Carrying case
× 1

INSTALLATION

1. BEFORE INSTALLATION

When mounting the unit in a car, keep the unit as level as possible.

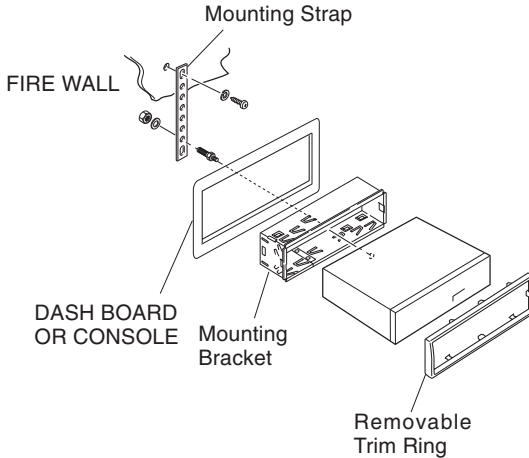
If the unit must be mounted at an angle, due to the design of the vehicle, make sure the unit does not tilt by more than 30°.



max. 30°

2. INSTALLATION PROCEDURES

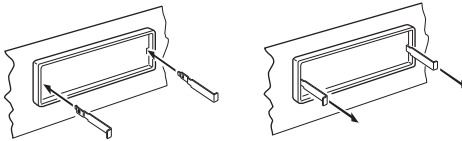
MOUNTING STRAP USE



When mounting the unit into a DIN-standard cutout (182 × 53 mm) in the dashboard or console, attach the provided Removable Trim Ring to the unit.

1. Insert the mounting bracket into the DIN-standard cutout (182 × 53 mm) in the dashboard or console.
2. Bend the mounting bracket stopper outward until the bracket fits snugly in the cutout.
3. Attaching the Mounting Strap to the underside of the dash board, using screw. Attach the back of the unit to the Mounting Strap using support stem bolt and hardware.

UNIT REMOVAL



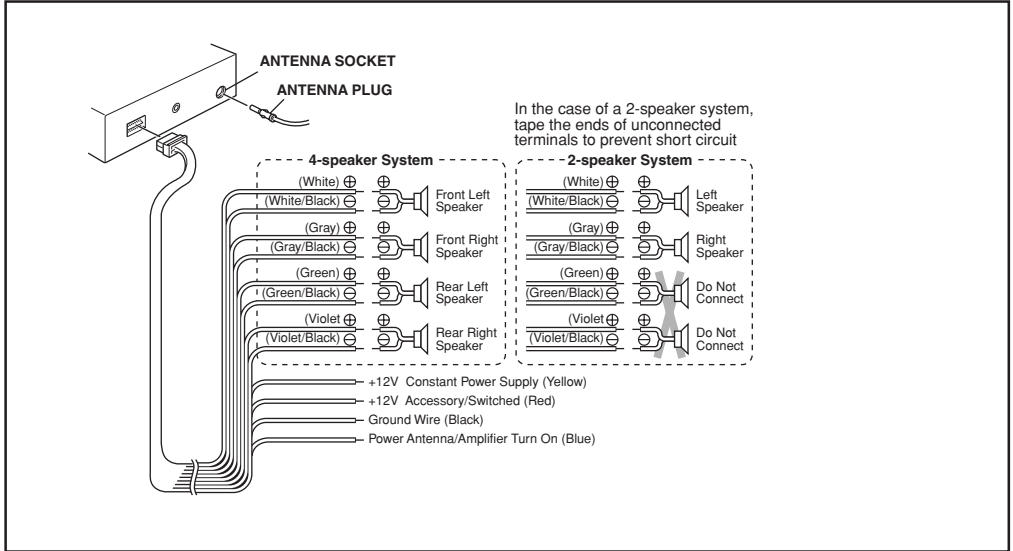
1. Insert the unlock levers into the slots on each side of the unit until they click into place.
2. Pull the levers to remove the unit.

Notes

- Handle the unlock levers carefully to avoid injuring your fingers.
- Keep the unlock levers in a safe place for future use.

ELECTRICAL CONNECTIONS

WIRING



⚠ CAUTION

- DO NOT connect any speaker wires to the metal body or chassis of the vehicle.
- DO NOT connect the speaker common (–) wires to each other.
- Connect each speaker wire directly to each speaker terminal.
- All speaker common (–) wires must remain floating.

1 Antenna socket

- Insert the plug from the antenna installed in your vehicle into this socket. (If your vehicle has a dual antenna system, a dual antenna to single antenna cable adaptor may be required.)

2 +12V Constant Power Supply (Yellow)

- Connect this wire to the +12V power terminal which receives power continuously.

3 +12V Accessory/Switched (Red)

- Connect this wire to the terminal which receives power while the ignition switch is ON or in the ACCESSORY position.
- If the ignition switch does not have an ACC position, connect this wire to a +12V power terminal which receives power continuously. (Same as item 2.)

4 Ground wire (Black)

- Connect this wire to the vehicle chassis.

5 Power Antenna/Amplifier Turn On (Blue)

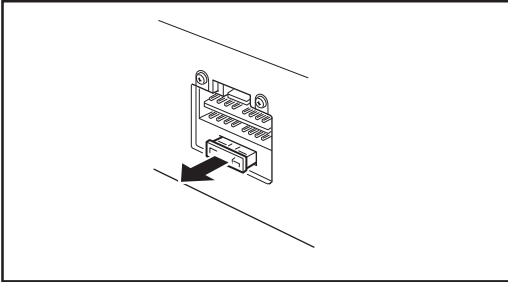
- Connect this wire to the control terminal of a Power Antenna or an external amplifier.
- When not using a Power Antenna or an external amplifier, this wire is not connected.

Notes

- When using a two-speaker installation, the Green, Green/Black, Violet, Violet/Black wires, which are used for a four-speaker installation, are not used. The ends of these wires must be covered with electrical tape to prevent them from shorting to the unit or the vehicle chassis.
- When using a two-speaker installation, set the FADER control to the center position.

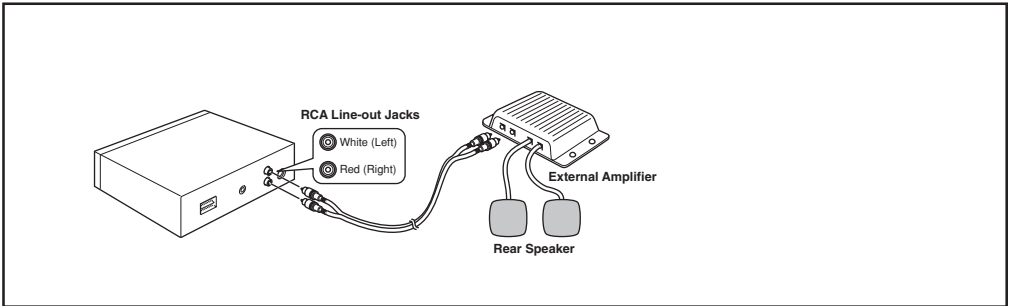
REPLACING THE FUSE

When fuse replacement is necessary remove the blown fuse by using pliers. Then install the new 10 amp. fuse.



LINE OUT CONNECTIONS

- The unit has a line out terminals. You can use a separate rear channel amplifier to upgrade your system.



RCA Line- out Jacks (For Rear Speakers)

- Connect a patch cable (not supplied) from the White (left rear channel) and Red (right rear channel) RCA line output jacks to the line input terminals of the external amplifier.

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