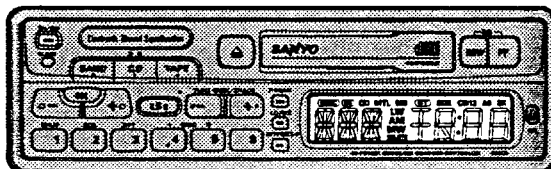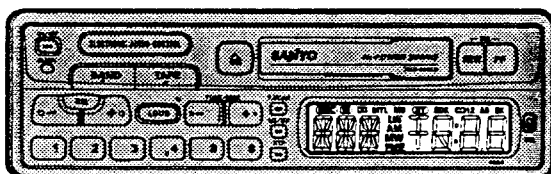# SANYO

COMPACT disc DIGITAL AUDIO

FXC–503LD
FXR–403LD

Full Auto Reverse Car Fidelity
Receiver/Cassette Player
with CD Changer Controller

FXC–503LD

Full Auto Reverse Car Fidelity
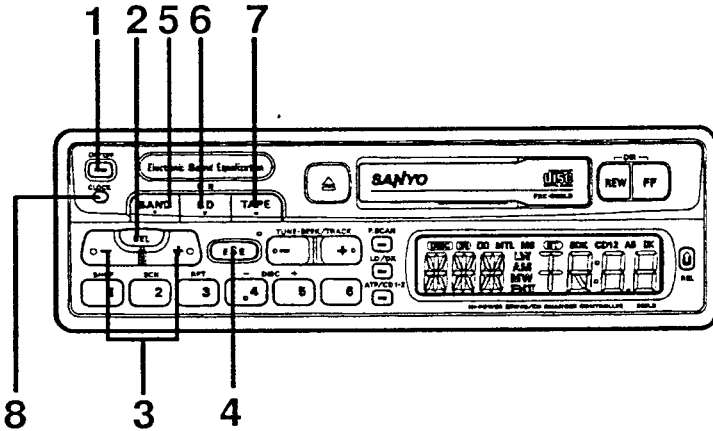Receiver/Cassette Player

FXR–403LD

CONTENTS

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 attempt to repair the unit by yourself; return the unit for servicing to your nearest SANYO car audio dealer.
The highly-polished playback head should not come into contact with any metallic or magnetic tools.
Clean the tape head, pinch roller, and capstans at least once a month using a quality audio head-cleaning cassette.
To avoid possible system trouble, do not use tapes with wrinkled or half-peeled labels.

DETACHABLE FRONT PANEL

The front panel is designed to be removable for antitheft purposes.
t is recommended that you remove and carry the front panel with you when you leave your car.
A carrying case is provided with the unit for this purpose.

HOW TO DETACH FRONT PANEL

1 Push the release knob (REL) to release the front panel.
2 Pull the entire panel to remove it from the unit.

REPLACEMENT

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

Note
   The unit will not operate with the front panel incorrectly installed.

RELEASE KNOB

FRONT PANEL

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 benzine, thinner, or insecticides.
- Do not drop the panel.

GENERAL OPERATION

TURNING ON THE UNIT

Install the front panel and press button ①.

FUNCTION OFF 1

Press button ① to stop operation.

ELECTRONIC CONTROLS 2, 3

Press button ② to select the audio functions as shown in the table below.
To adjust the volume, press button ③ (either the ⊕ or ⊖ side) while in the volume mode.
To adjust the sound quality, balance or fader, press button ② to select the operation mode, then press the ⊕ or ⊖ side of button ③.

Note

While the mode is not displayed, press button ③ and the volume will be adjusted.

MODE	⊖ (Min)		⊕ (Max)	
VOL	Down	0	Up	32
BAS	Down	−5	Up	+5
TRE	Down	−5	Up	+5
BAL	Left	L15	Right	R15
FAD	Front	F15	Rear	R15

ELECTRONIC SOUND EQUALIZER
(E.S.E.) BUTTON .... 4 ★ FXC-503LD only

E.S.E is a 5-Mode 5-Band Electronic Sound Equalization feature which offers five presets with frequency curves that conform to various types of music-pop, rock, classical, jazz and country.
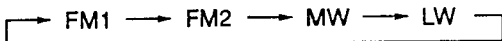To select a desired equalizer option, press button ④.

┌──→ Defeat(flat) ──→ Rock ──→ Jazz ──→ Pop ──→ Classics ──→ Country & Western ─┐

RADIO SELECTION BUTTON 5

Press button ⑤ to turn on the radio.
Press button ⑤ to change to radio mode from CD* or tape mode. While in radio mode, press button ⑤ to switch bands.
*FXC-503LD only

┌──→ FM1 ──→ FM2 ──→ MW ──→ LW ─┐

CD SELECTION BUTTON .... 6 ★ FXC-503LD only

Press button ⑥ to turn on the CD auto changer.
Press button ⑥ to change to CD mode from radio or tape mode.

TAPE SELECTION BUTTON 7

Press button ⑦ to turn on the cassette tape player.
Press button ⑦ to change to cassette tape mode from radio or CD* mode. ***FXC-503LD only**

TO CANCEL THE BEEP TONES 7

① To cancel all beep tones, press button ⑦ for more than 3 seconds with no tape in the tape slot.
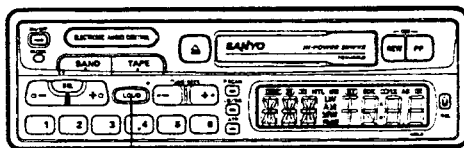② To turn on the beep tone again, perform the same procedure.

CLOCK BUTTON 8

Press button ⑧ while the unit is in operation. The current time will display for approximately five seconds, then the original display will return.

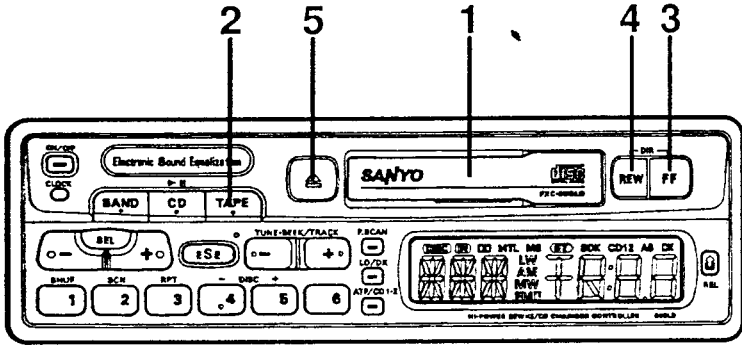## LOUDNESS BUTTON .... 9 ★ FXR-403LD only

Pressing button ⑨ enhances lower sound frequencies, even when the volume is set at a low level: "LOUD" will appear in the display. The LED next to button ⑨ lights when LOUDNESS is on.
To cancel this function, press button ⑨ again.

9

TAPE OPERATION

SELECTING TAPE MODE

Insert a cassette into the tape slot ① and the tape player will start.
With a tape inserted, pressing button ② switches directly to tape mode from either radio or CD*
mode.   *FXC-503LD only

SWITCHING THE TAPE DIRECTION 3, 4

Press buttons ③ and ④ simultaneously.
• When the tape reaches the end of one side, the unit will automatically switch to the opposite side of the tape.

FAST FORWARD AND REWIND 3, 4

Press button ③ to fast-forward; press button ④ to rewind the tape.
After fast forwarding, lightly press the rewind button to play the tape; after rewinding lightly press the fast forward
button to play the tape.
During fast forward and rewind, the radio monitor is activated. The unit receives the last tuned radio station.
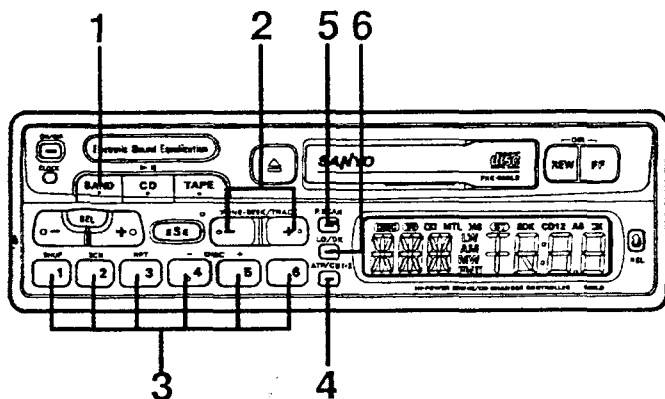To cancel radio monitoring, press button ② during radio monitoring.

EJECTING A TAPE 5

Press button ⑤ to eject a tape.
• The display will switch to clock mode after the tape has been ejected.
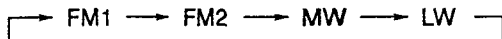
RADIO OPERATION

SELECTING RADIO MODE

Press button ①. The mode will switch from CD* or tape to the radio mode.
Press button ① to select the desired band.

*FXC–503LD only

```
┌─► FM1 ──► FM2 ──► MW ──► LW ─┐
└──────────────────────────────┘
```

RADIO TUNING 2

- Manual tuning ...... To select higher frequency stations, press the ⊕ button (for less than 0.5 seconds).
To select lower frequency stations, press the ⊖ button.
To quickly scan up or down in frequency, press and hold the ⊕ or ⊖ button. Release and press again the button when the desired frequency appears on the display.
  • A flashing decimal point in the frequency display indicates that the system is receiving a station 50 kHz higher than the displayed frequency.
- Automatic tuning .... Press the ⊕ or ⊖ button for more than 0.5 seconds.
When the button is released, the system will start automatic tuning and stop at the next receivable station.

STORING PRESET STATIONS 3

The preset buttons can be used to store 6 stations in each band (FM1, FM2, MW and LW) for quick tuning.
- Programming stations .. [1] Select the desired band and tune in the station you want to store in memory.
  [2] Press and hold one of the preset buttons for more than 1.5 seconds.
  Repeat steps [1] and [2] to program further stations.
- Quick tuning .... Select the desired band and press one of the six preset buttons.

ATP (AUTO TRAVEL PRESET)
BUTTON OPERATION 3, 4

With this function, the system searches for and memorizes the 6 strongest stations in one of the three bands (FM1, FM2, MW) in order of signal strength.
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 MW) can be programmed.
- To set the stations .... [1] Select the desired band.
  [2] Press and hold button ④ for more than 1.5 seconds. "AS" will appear in the display.
  When the stations have been memorized, scanning will stop and the strongest station will be received.

• Select the desired band.
• Press button ④ if the "AS" indicator does not appear in the display.
• Press preset button ③ to select the desired ATP preset. If a total of six stations cannot be preset "- - -" will be displayed for the empty channels.

• To scan programmed stations . . . See "PRESET-SCAN-BUTTON OPERATION".

Notes

• *If no station can be received, "- - -" will appear in the display. The system will tune into the station which was being received before the ATP function was selected.*

• *If there are less than 6 stations which can be received, the system will memorize these stations and start receiving the one memorized first.*

PRESET-SCAN-BUTTON OPERATION 5

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

• To scan . . . . . [1] Select the desired band or ATP mode. Press button ① for FM1, FM2, MW or LW band, or press button ④ for less than 0.5 seconds for ATP mode.

[2] Press button ⑤. The system will sequentially receive each preset station for 5 seconds.

[3] To hold the station, press button ⑤ again during this five second period.
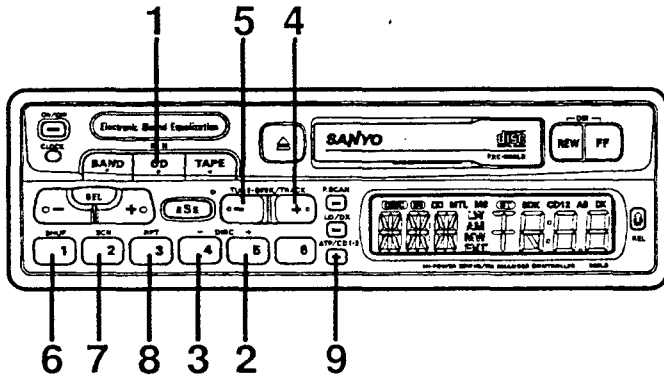
SWITCHING BETWEEN LOCAL STATIONS
AND DISTANT STATIONS (DX) 6

Each time button ⑥ is pressed (for less than 0.5 seconds), the search stop sensitivity will be switched between local and distant stations.

• To receive local stations (strong signals) . . . . press the button to turn off "DX" in the display.
• Distant stations (weak signals) . . . . press the button to turn on "DX" in the display.

CD OPERATION ★ (FXC-503LD ONLY)

FXC-503LD WORKS IN CONJUNCTION WITH SANYO CD CHANGER (FXD-C100/FXD-C200) OR OTHER COMPATIBLE SANYO CD CHANGERS.

SELECTING CD MODE

Press button ① to switch from radio or tape mode to CD mode.

PUTTING THE CD IN PAUSE MODE 1

While playing a CD press button ① ; the player is in pause mode.
To resume playing, press button ① again.

SELECTING A DISC 2, 3

Press button ② to select the next disc.
Press button ③ to select the preceding disc.

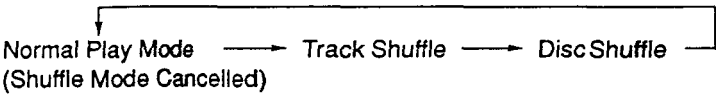## SKIPPING TRACKS 4, 5

Press button ④ to skip to the beginning of the next track.
Press button ⑤ to skip to the beginning of the currently played track.
Press button ⑤ twice to skip to the beginning of the previous track.
Press and hold button ④ or ⑤ for more than 1.5 seconds to advance quickly in the forward or backward direction.
On releasing the button, the CD will start to play from the point at which the button was released.

SHUFFLE MODE 6

This is a function to play tracks or discs in random order.
- "Shuffle-playing" tracks; .... Press button ⑥. The system will play tracks on the current disc in random order.
- "Shuffle-playing" discs; .... Press button ⑥ again. The system will select a disc at random and play all tracks on that disc. When all tracks have been played, the next disc will be selected and "shuffle-play" will be repeated.

To cancel this mode, press button ⑥ again.
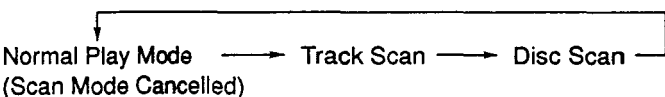The system will remain in this mode until it is cancelled.

Normal Play Mode ——► Track Shuffle ——► Disc Shuffle ─┘
(Shuffle Mode Cancelled)

Note

To return from the track shuffle mode directly to the normal play mode, press button ⑥ twice successively. If an interval exists after pressing once, the unit will go into the disc shuffle mode and you have to wait for several seconds before pressing again.

SCAN MODE (PLAYING THE BEGINNING OF TRACKS OR DISCS) 7

This function plays the first 10 seconds of each track or disc sequentially.
- Playing the beginning of tracks ...... Press button ⑦ to play the first 10 seconds of each track on the current disc in order.
  (Track Scan)
- Playing the beginning of discs ...... Press button ⑦ again to play the first 10 seconds of each disc in the magazine.
  (Disc Scan)

To cancel this mode, press button ⑦ again.
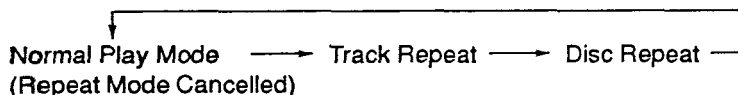The system will remain in this mode until it is cancelled.

Normal Play Mode ——► Track Scan ——► Disc Scan ─┘
(Scan Mode Cancelled)

Note

To return from the track scan mode directly to the normal play mode, press button ⑦ twice successively. If an interval exists after pressing once, the unit will go into the disc scan mode and you have to wait for several seconds before pressing again.

-7-

REPEAT MODE 8

- Repeating tracks .... Press button ⑧ to play the current track repeatedly.
- Repeating discs .... Press button ⑧ again to play the current disc repeatedly.

To cancel this mode, press button ⑧ again.
The system will remain in this mode until it is cancelled.

Normal Play Mode ⟶ Track Repeat ⟶ Disc Repeat
(Repeat Mode Cancelled)

Note

To return from the track repeat mode directly to the normal play mode, press button⑧ twice successively. If an interval exists after pressing once, the unit will go into the disc repeat mode and you have to wait for several seconds before pressing again.
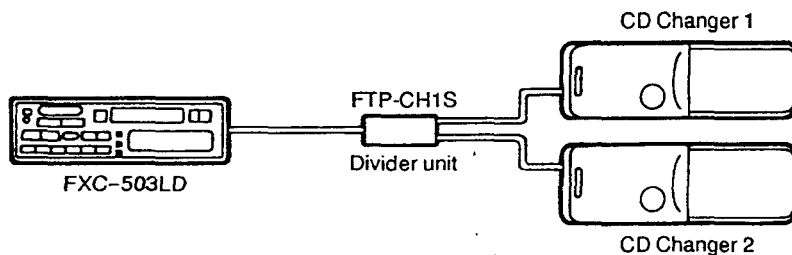
SELECTING A CD CHANGER .... 9 ★

A second CD changer can be added by using a divider unit (FTP-CH1S).

    FXD-C200: 10 discs can be stored.
    FXD-C100: 6 discs can be stored.

Press button ⑨ to select the desired CD changer. (CD1/CD2)

Note

If only one CD changer is installed, button ⑨ is not effective.

CD Changer 1

FTP-CH1S

FXC-503LD

Divider unit

CD Changer 2

Note

When two CD changers are connected, set the select button of one CD changer to 1 and the other to 2. The select button is located on the CD changer body.
Do not assign the same number to both changers.
For detailed instructions, refer the instructions supplied with the FXD-C100 or FXD-C200.
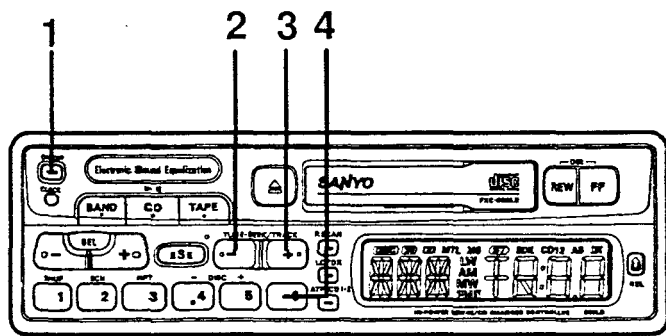
a problem should occur while operating the CD changer, one of the following error signs may be splayed.

Error Sign	Cause	Remedy
E01	Abnormal disc change function.	Contact the place of purchase.
E07	The disc is inserted incorrectly.	Insert the disc properly. Refer to the CD-Changer Operating Instructions.
E30	Excessive temperature in the car is detected.	Allow the car to cool. Then press the magazine eject button on the CD changer unit.
MAG – – –	The magazine is not fully inserted into the changer.	Completely insert the magazine into the changer until it clicks in place.
NO CD	There are no discs in the magazine.	Insert discs into the magazine.
L Err	The connector is detached.	Properly connect the connector.

Note
When using FXD–C200, "E-07" is not displayed.

CLOCK

TIME DISPLAY 1
Press button ① to display the time.
The time display appears for approximately 5 seconds.

ADJUSTING THE TIME 1, 2, 3
To adjust the time, press button ② or ③ while pressing button ①.
To adjust the hour, press button ②.
To adjust the minutes, press button ③.
If button ② or ③ is held while pressing button ①, the displayed time will advance rapidly.

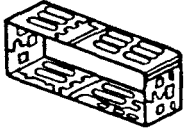## CLOCK RESET 1, 4
Press button ④ while pressing and holding button ① to skip to the nearest half-hour as follows.
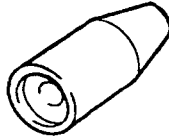Example: 3:00~3:29 → 3:00
         3:30~3:59 → 4:00

Note
• This unit uses a 12-hour clock.
• The clock function and radio presets are retained in memory when the audio is switched off.

ACCESSORIES AND HARDWARE
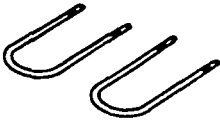
INSTALLATION

Mounting Bracket
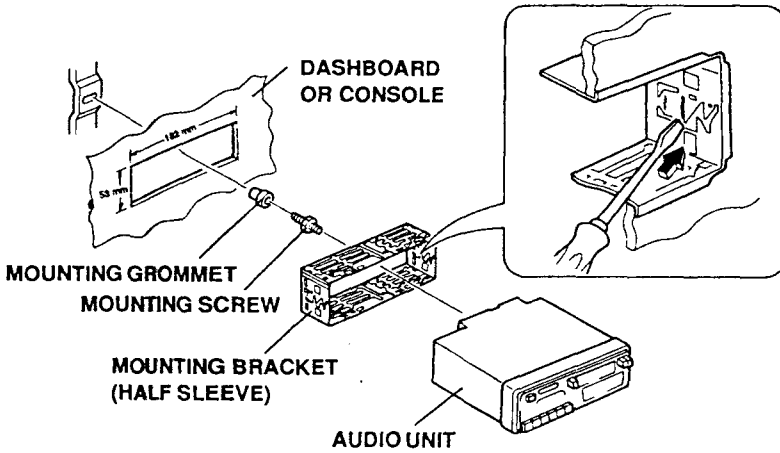(Half Sleeve) x 1

Mounting Grommet
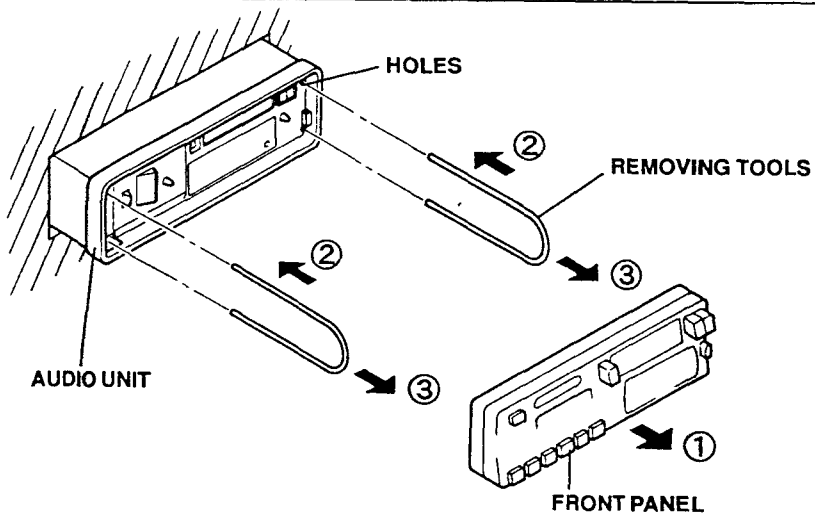x 1

Mounting Screw M5
x 1

SET REMOVAL

Removing Tool
x 2

INSTALLATION

DASHBOARD OR CONSOLE

MOUNTING GROMMET
MOUNTING SCREW
MOUNTING BRACKET (HALF SLEEVE)
AUDIO 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 outwards until the bracket fits snugly in the cutout.
3. Install the supplied mounting screw (M5) in the audio unit.
   Cover the mounting screw with the supplied rubber cap.
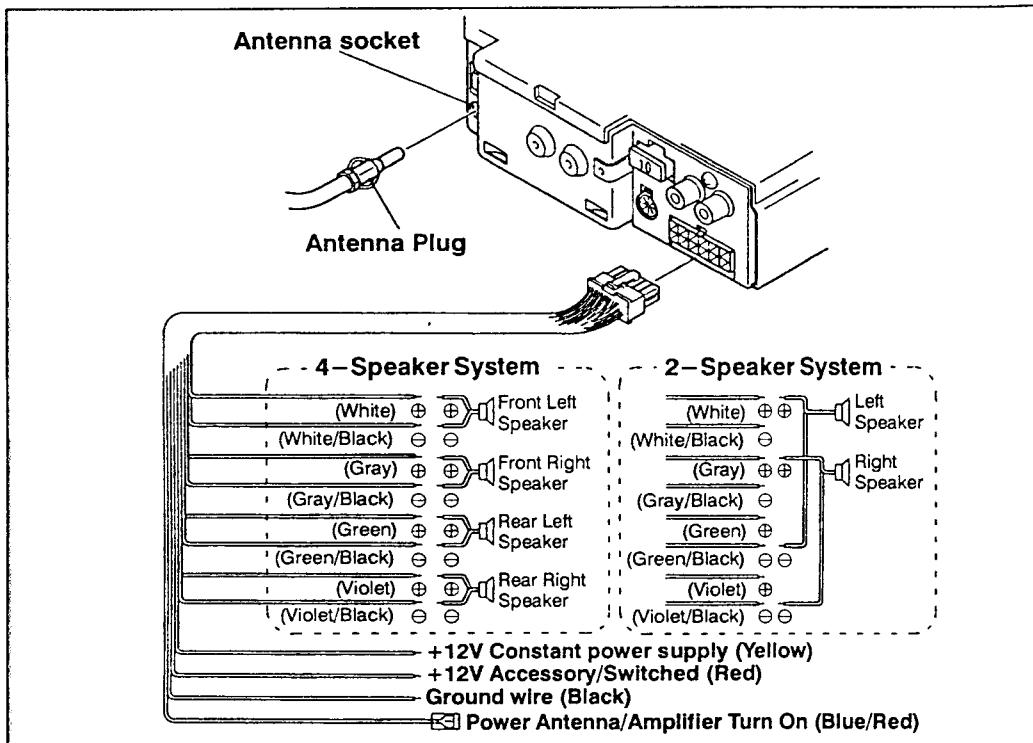4. Push the unit into mounting bracket until it locks in place.

UNIT REMOVAL

HOLES
REMOVING TOOLS
AUDIO UNIT
FRONT PANEL

1. Remove the front panel.
2. Insert the pair of removing tools into the holes provided on each side of the audio unit.
3. Remove the audio unit.

ELECTRICAL CONNECTIONS

WIRING

Antenna socket

Antenna Plug

- - 4–Speaker System - - -   - - 2–Speaker System - - -

(White) ⊕	⊕	Front Left Speaker
(White/Black) ⊖	⊖	
(Gray) ⊕	⊕	Front Right Speaker
(Gray/Black) ⊖	⊖	
(Green) ⊕	⊕	Rear Left Speaker
(Green/Black) ⊖	⊖	
(Violet) ⊕	⊕	Rear Right Speaker
(Violet/Black) ⊖	⊖	

(White) ⊕ ⊕	Left Speaker
(White/Black) ⊖	
(Gray) ⊕ ⊕	Right Speaker
(Gray/Black) ⊖	
(Green) ⊕	
(Green/Black) ⊖ ⊖	
(Violet) ⊕	
(Violet/Black) ⊖ ⊖	

+12V Constant power supply (Yellow)
+12V Accessory/Switched (Red)
Ground wire (Black)
Power Antenna/Amplifier Turn On (Blue/Red)

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 antenna plug installed in your vehicle into this socket.

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.
- In the case of a vehicle not having ACC, connect this wire to a +12V power terminal which receives power continuously. (Same as terminal 2.)
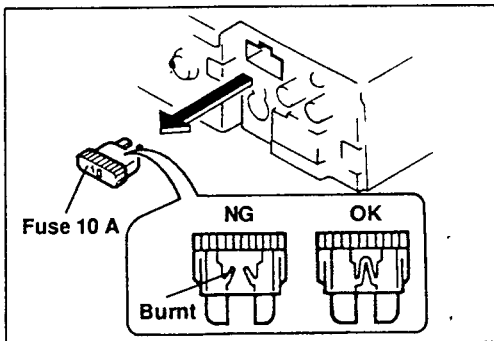
4 Ground wire (Black)
- Connect this wire to the vehicle chassis.

5 Power Antenna/Amplifier Turn On (Blue/Red)
- Connect this wire to the control terminal of a Power Antenna or an external amplifier.
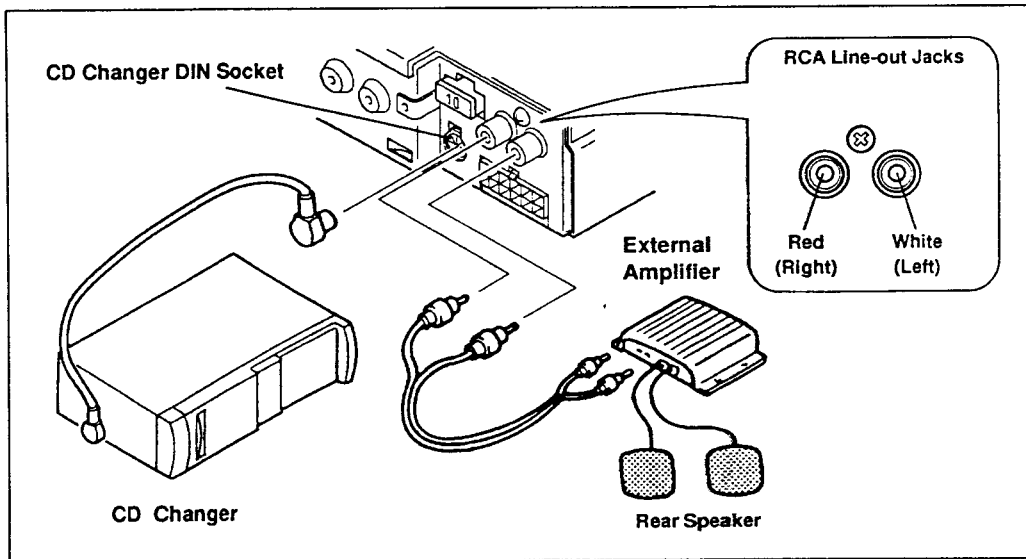- When not using a Power Antenna or an external amplifier, this wire is not connected.

Notes
- *When using a two-speaker installation, set the FADER control to the center position.*
- *When not using a Power Antenna/External Amplifier, cover the end of the Blue/Red wire with electrical tape to prevent it from shorting to the unit or vehicle chassis.*
- *When using a two-speaker installation, the Violet, Gray/Black, Green and White/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 vehicle chassis.*

Fuse 10 A

NG   OK

Burnt

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

LINE OUT/CD CHANGER CONNECTIONS(FXC-503LD Only)

- Since this unit has a CD changer controller and output terminals, you can use a CD changer and an amplifier to upgrade your vehicle stereo system.

CD Changer DIN Socket

RCA Line-out Jacks

External
Amplifier

Red
(Right)

White
(Left)

CD Changer

Rear Speaker

CD changer DIN Socket
- Connect the DIN socket to the CD changer using a DIN cable (8 pin) which is supplied with the "FXD-C200 (10-disc)", and the "FXD-C100 (6-disc)" CD changer.

RCA Line-out Jacks (For Rear Speakers)
- Connect the Red (rear right channel) and White (rear left channel) RCA line-out jacks to each of the input terminals of the external amplifier for the rear speakers.