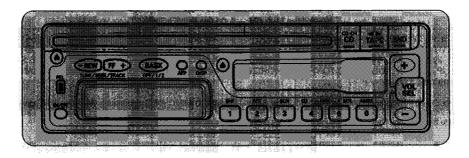
OPERATING INSTRUCTIONS







FXCD-500

Full Panel Detachable
FM Stereo/AM Receiver
Auto Reverse Cassette Player
Compact Disc Player
with CD Changer Controller
ISO Mounting with Removable Trim Ring

(English)

OPERATING INSTRUCTIONS

1~30

(Español)

LIBRITO DE INSTRUCCIONES

31~59

SANYO MOBILE AUDIO MODEL FXCD-500 LIMITED WARRANTY

OBLIGATIONS

In order to obtain warranty service, the product must be delivered to and picked up from an Authorized Sanyo Factory Service Center at the user's expense, unless specifically stated otherwise in this warranty. The names and addresses of Authorized Sanyo Service Centers may be obtained by calling the toll-free number listed below.

For product operation, authorized service center referral, service assistance or problem resolution, call

CUSTOMER INFORMATION 1-800-421-5013

Weekdays 8:00 AM - 5:00 PM Pacific Time

For accessories and/or parts not available from an authorized dealer, call

PARTS ORDER INFORMATION 1-800-726-9662

Weekdays 8:00 AM — 5:00 PM Pacific Time

THIS WARRANTY IS VALID ONLY ON SANYO PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA THIS WARRANTY APPLIES ONLY TO THE ORIGINAL RETAIL USER, AND DOES NOT APPLY TO PRODUCTS USED FOR ANY INDUSTRIAL, PROFESSIONAL OR COMMERCIAL PURPOSE THE ORIGINAL DATED BILL OF SALE OR SALES SLIP MUST BE SUBMITTED TO THE AUTHORIZED SANYO SERVICE CENTER AT THE TIME WARRANTY SERVICE IS REQUESTED

Subject to the OBLIGATIONS above and EXCLUSIONS below, SANYO FISHER COMPANY (SFC) warrants this SANYO product against defects in materials and workmanship for the periods specified below SFC will repair or replace (at its option) the product and any of its parts which fail to conform to this warranty The warranty period commences on the date the product was first purchased at retail

LABOR	PARTS
1 YEAR	1 YEAR

EXCLUSIONS

This warranty does not cover (A) the adjustment of customer-operated controls as explained in the appropriate model's instruction manual, or (B) the repair of any product whose serial number has been altered, defaced or removed

This warranty shall not apply to the cabinet or cosmetic parts, knobs or routine maintenance

This warranty does not apply to uncrating, setup, installation, removal of the product for repair or reinstallation of the product after repair. This warranty does not apply to repairs or replacements necessitated by any cause beyond the control of SFC including, but not limited to, any malfunction, defect or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, modification or repair by the user, abuse, misuse, neglect, accident, incorrect power line voltage, fire, flood or other Acts of God, or normal wear and tear

The foregoing is in lieu of all other expressed warranties and SFC does not assume or authorize any party to assume for it any other obligation or liability

THE DÜRATION OF ANY WARRANTIES WHICH MAY BE IMPLIED BY LAW (INCLUDING THE WARRANTIES OF MERCHANT-ABILITY AND FITNESS) IS LIMITED TO THE TERM OF THIS WARRANTY IN NO EVENT SHALL SFC BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS UNDER THIS WARRANTY DUE TO CAUSES BEYOND ITS CONTROL. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE

ATTENTION

For your protection in the event of theft or loss	of this product, please fill in the information below for your own personal records
Model No	
Date of Purchase	(Located on back or bottom side of unit) Purchase Price
Where Purchased	

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

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⚠ CAUTION

- This unit is designed to operate on 12 volts DC, NEGATIVE ground electrical systems only
- When fuse replacement is necessary, use only a 15 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 of Controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure
- Changesor modifications not expressly approved by Sanyo may void the user's authority to operate this equipment
- For CD player section:
 - This device complies with Part 15 of the FCC Rules Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

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 Discs bearing other types of identification logos may not play properly
- CD-R and CD-RW discs cannot be used





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



Label Side



- Fingerprints and dust should be carefully wiped from 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

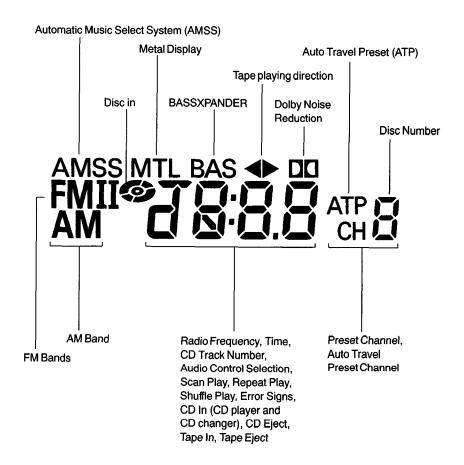


Benzene Thinner Cleaning spray



- 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, remove the compact disc and return it to the plastic storage case. This will protect the disc from dust and exposure to the sun.

DIGITAL DISPLAY



^{*}Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation

SAFETY CERTIFICATION

This Compact Disc Player is made and tested to meet exacting safety standards It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services

DETACHABLE FRONT PANEL

The front panel is designed to be removable for antitheft purposes It 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 THE FRONT PANEL

- Press the release knob (REL) to release the front panel
- 2 Pull the entire panel to remove it from the unit

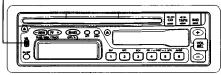
HOW TO REPLACE THE FRONT PANEL

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

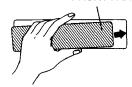
Note

The unit will not operate if it is installed incorrectly

RELEASE KNOB



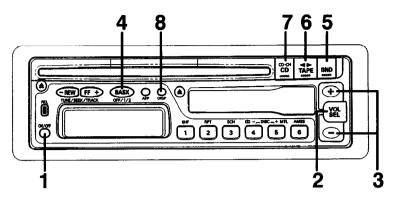
FRONT PANEL



A 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

Install the front panel and press the ON/OFF button ① when ACC is on

Press the ON/OFF button ① to stop the current operation The button dims when the power is off (ACC on)

Press the SEL button ② to select the audio functions as shown in the table below

To adjust the volume, press the \oplus or \ominus buttons 3 while in the volume mode To adjust the bass, treble, balance or fader, press the SEL button to select the desired operation, then press the \ominus or 4 buttons

- Note

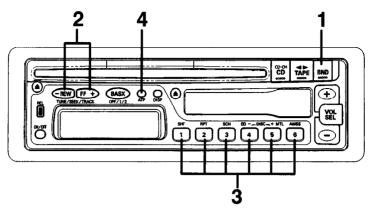
While no other mode is displayed, the \oplus and \ominus buttons function as a volume control

MODE	⊕ (Min)	0	(Max)
VOL bAS	Down	0	Up	50
	Down	-5	Up	5
TRE	Down	-5	Up	5
bAL 	Left	L15	Right	R15
FAd	Rear	R15	Front	F15

Press the SEL button ② for about 3 seconds until the unit beeps, the audio controls, except for volume, will be reset
BASSXPANDER (BASX) - 1/2
$\label{eq:bassxpander} BASSXPANDER \ of fers two \ preset \ modes: b-1 \ enhances \ the \ low \ and \ high \ frequencies, \ while \ b-2 \ enhances \ the \ low \ frequencies \ and \ reduces \ the \ high \ frequencies$
Press the BND button ® to switch from tape, CD player or CD changer* mode to radio * If a CD changer is connected Each time the button is pressed, the function changes as shown below FMI — FMII — AM
TAPE SELECTION BUTTON
CD PLAYER OR CD CHANGER* SELECTION BUTTON (CD/CD-CH)
Pressing the button will change the mode as follows: 1 When a CD is loaded in the CD player and a CD changer is not connected; Radio/Tape —— CD player —— CD player pause ——
② When a CD is not loaded in the CD player and a CD changer is connected, Radio/Tape → CD changer → CD changer pause —
③ When a CD is loaded in the CD player and a CD changer is connected, Radio/Tape CD player CD changer
CLOCK BUTTON (DISP) 8
Press the DISP button $\textcircled{8}$ to switch between the clock and audio display. When an audio function is performed while the time display is selected, the audio display will appear for 5 seconds, then the display will return to the time mode
TO CANCEL THE BEEP TONES 6
$\boxed{1}$ To cancel all beep tones, press TAPE button $\textcircled{6}$ for more than 3 seconds with no tape in the slot, and then
$\xi \xi = P/\Pi \xi$ is displayed 2 To turn on the beep tones again, perform the same procedure. The beep tones are set and $\xi \xi = P/\Pi \xi$ is

displayed

RADIO OPERATION



SELECTING RADIO MODE

Press the BND button ① to switch from tape, CD or CD changer* mode to the radio Each time the BND button is pressed, the selected band changes as shown below

* If a CD changer is connected



RADIO TUNING

Automatic tuning

Press the TUNE/SEEK/TRACK \oplus or \ominus button @ for more than 1 second until it beeps twice if the beep tones are on

When the button is released, the system will start automatic tuning and stop at the

next receivable station

Manualtuning

To select higher frequency stations, press the

button for less than 0.5 seconds To select lower frequency stations, press the Θ button for less than 0.5 seconds To quickly scan up or down in frequency, press and hold the \oplus or \ominus button Release the button when the display approaches the desired frequency, then press and release the button repeatedly until the desired frequency is displayed

In FM mode a flashing decimal point in the frequency display indicates that the system is receiving a station 50 kHz higher than the displayed frequency

STORING PRESET STATIONS

The preset buttons ③ can be used to store 6 stations in each band (FMI, FMII, and AM) 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 for more than 2 seconds

Repeat steps 1 and 2 to program additional stations

 Quick tuning Select the desired band, then press one of the six preset buttons

ATP (AUTO TRAVEL PRESET) OPERATION 4

The Auto Travel Preset function searches for and memorizes the 6 strongest stations in one of the two bands (FM I, AM) 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 AM) can be programmed

- To set the stations
- 1 Select the desired band
- Press and hold the ATP button (4) for more than 2 seconds "ATP" appears in the display

 When the stations have been memorized, scanning stops and the

when the stations have been memorized, s strongest station is selected

- Quick Tuning of ATP Stations
- 1 Select the desired band
- 2 Press the ATP button if the "ATP" indicator does not appear in the display
- 3 Press button 4 for less than 1 second to select the desired ATP preset Each time the ATP button is pressed, the next ATP preset is selected If a total of six stations cannot be preset "- -" will be displayed for the empty channels
- · To scan programmed stations

See "PRESET-SCAN OPERATION"

Notes -

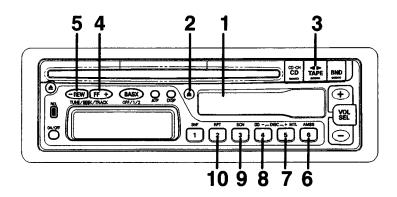
- If no station can be received, "- -" appears in the display
- If fewer than 6 stations can be received, the system will memorize as many stations as possible, then select the one memorized first
- If ATP mode is selected in FM II band, FM I ATP mode is selected

PRESET-SCAN OPERATION (using BND button) 1, 4

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

- Press the BND button ① for FMI, FMII, or AM Press the ATP button ④ for less than 0.5 seconds to select the desired band or ATP mode
- 2 Press the BND button ① for more than 2 seconds The system will select and receive each preset station for 5 seconds
- 3 To stop scanning and retain the station currently selected, press the BND button ① again during this five-se-cond period

TAPE OPERATION



LOADING AND EJECTING THE TAPE

Insert a cassette into the tape slot ${\mathbin{\textcircled{\scriptsize 1}}}$ and the tape player will start

Press the eject button @ to eject a tape

The system will return to the last mode

■ CAUTION

Only cassette tapes that play no longer than 90 minutes should be used Tapes exceeding 90 minutes are thin and may easily break

SELECTING TAPE MODE

Inserting a cassette into the tape slot as stated above will start the tape player If radio, CD player or CD changer* is in operation with a tape loaded, press the TAPE button ③ to switch to tape mode

* If a CD changer is connected

SWITCHING THE TAPE DIRECTION 3

Press the TAPE button 3

• When the tape reaches the end of one side, the unit will automatically switch to the opposite side of the tape

Press the FF button ® to fast forward and press the REW button ® to rewind the tape Pressing the TAPE button ® during fast forward and rewind operation resumes tape playing

LOCATING THE BEGINNING OF A PROGRAM (AMSS) 4, 5, 6
This system is equipped with a function that allows you to skip forward or backward to locate the beginning of a particular selection on the tape (Automatic Music Select System : AMSS)
TRPE" is displayed
Press the FF button

- e g) With "AMSS TRPE" displayed, press button @ three times "AMSS F 3" is displayed

 The system will search for 3 blank spaces between selections in the forward direction, then begin playing the third selection from the starting point
- 3 Press the REW button © to skip backward to the beginning of the current selection, or up to 8 selections from the current location on the tape
 - eg) With "AMSS TRPE displayed, press button ® five times "AMSS & 5 is displayed

The system will search for 5 blank spaces between selections in the backward direction, then begin playing the forth selection from the starting point (The blank space before the current selection counts as one blank space)

4 To cancel AMSS mode, press button @ again

Notes

- If AMSS detects 15 seconds of blank space, it will automatically advance the tape to the next selection
- AMSS may not operate properly if
 - · A tape was recorded at low level
 - A tape has long, silent intervals
 - · A tape is a live recording

If a metal or high-position tape is used, press the MTL button @ to make the player in metal play mode MTL is indicated

DOLBY B NOISE REDUCTION BUTTON 8

To play back a tape encoded with Dolby* NR, press button ® When Dolby* NR is activated, the indicator lights To play other tapes not encoded with Dolby* NR, press the button to switch Dolby* NR off. The indicator goes out

 ${}^{\star}\!\mathsf{Dolby}\,\mathsf{noise}\,\mathsf{reduction}\,\mathsf{manufactured}\,\mathsf{under}\,\mathsf{license}\,\mathsf{from}\,\mathsf{Dolby}\,\mathsf{Laboratories}\,\mathsf{Licensing}\,\mathsf{Corporation}$

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation

Scan helps to find a program by playing about the first 10 seconds of each selection Press the SCN button (9) during play to start scan operation "5 n" is displayed
To cancel scan, press the SCN button @ again
— Notes —

RPT/SCN may not operate properly if

- · A tape was recorded at a low level
- · A tape has long, silent intervals
- · A tape is a live recording

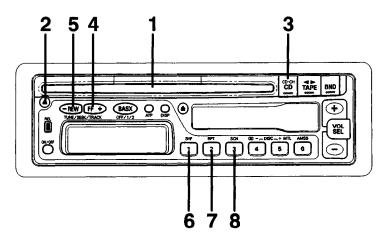
SCAN MODE

REPEAT MODE 10

This operation makes it possible to listen repeatedly to a selection

Press the RPT button ® during play "PFP" is displayed, the selection playing will continue until RPT is pressed again

CD OPERATION



Insert a disc into the CD slot ① and the CD player will start Press the eject button ② to eject a disc

-△ CAUTION **-**

- This CD player is not designed for 8 cm CDs Please do not use an 8 cm CD nor 8 cm CD adaptor
- If the unit is already loaded with a CD, please do not attempt to insert another disc, which
 may result in damage to both of the discs and the unit

SWITCHING TO CD MODE

Press the CD button @ to switch from radio, tape or CD changer* mode to CD player mode Pressing the button will change the mode as explained in section "CD PLAYER OR CD CHANGER SELECTION BUTTON (CD/CD-CH)" in page 8

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

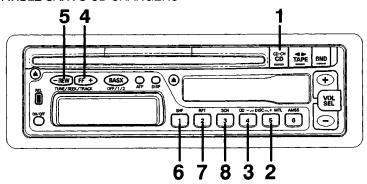
The CD player continues playing the disc until the ON / OFF button is pressed, the other mode is selected, or the disc is ejected $\frac{1}{2}$

* If a CD changer is connected

SKIPPING TRACKS
Press the TRACK \oplus button \circledast to skip to the beginning of the next track Press the TRACK \ominus button \circledast to skip to the beginning of the track currently playing Press the TRACK \ominus button \circledast twice to skip to the beginning of the previous track Press and hold the TRACK \oplus or \ominus button for more than 1 5 seconds to search quickly (with sound) in the forward or reverse direction. The elapsed time is displayed When the button is released, the CD resumes normal play
SHUFFLE MODE6
This function plays the tracks on a CD in random order Press the SHF button ® to begin shuffle play
Press the TRACK ⊕ or ⊖ button to select another random track
To cancel this mode, press the SHF button ® again or eject the CD
C Note
If a disc is already loaded under the following conditiions, shuffle play will resume from
the point at which play was stopped
If the vehicle ignition is turned off, then on again If the power is switched off, then on again with the ON/OFF button
The power is switched oil, then on again with the ON/OFF button
REPEAT MODE 7
Press the RPT button ② to play the current track repeatedly To cancel this mode, press the RPT button ② again or eject the CD Note
If a disc is already loaded under the following conditions, repeat play will resume
If the vehicle ignition is switched off, then on again
If the power is switched off, then on again with the ON/OFF button
SCAN MODE (PLAYING THE BEGINNING
OF EACH TRACK) 8
This function plays the first 10 seconds of each track sequentially
Press the SCN button ® to begin the scan mode
The system will remain in this mode until it comes to the track where the scan mode started
To cancel this mode, press the SCN button ® again
C Note
Scan mode will be cancelled when the vehicle ignition is turned off, when any other key
operations are performed except time and audio adjustments, or when the disc is ejected

CD CHANGER OPERATION

THE UNIT CAN BE USED TO CONTROL THE FUNCTIONS OF THE AX-300, AX-500 OR OTHER COMPATIBLE SANYO CD CHANGERS



SELECTING CD CHANGER MODE 1

Press the CD/CD-CH button ① to switch from radio, tape or CD player mode to CD changer mode Pressing the button will change the mode as explained in section "CD PLAYER OR CD CHANGER SELECTION BUTTON (CD/CD-CH)" in page 8

Press the DISC ⊕ button ② to select the next disc

Press the DISC → button ③ to select the preceding disc

SKIPPING TRACKS 4, 5

Press the TRACK

button

to skip to the beginning of the next track

Press the TRACK ⊕ button ⑤ to skip to the beginning of the track currently playing

Press the TRACK \ominus button $\ensuremath{\mathfrak{G}}$ twice to skip to the beginning of the previous track

Press and hold the TRACK \oplus or \ominus button for more than 2 seconds to search quickly (with sound) in the forward or reverse direction

When the button is released, the CD resumes normal play

SHUFFLE MODE

This function plays the tracks on one CD or all CDs in the magazine in random order

Shuffle-playing tracks;
 Press the SHF button ® to play tracks on the current disc in random.

order "SHE" is displayed

• Shuffle-playing discs, Press the SHF button ® for more than 2 seconds "d 5 H F" is dis-

played The system selects a disc at random and plays all tracks on that disc. When all tracks have been played, the next disc is selected and shuffle-play is repeated.

To cancel the track shuffle or disc shuffle mode, press the SHF button ® again

The system will remain in this mode until it is cancelled

REPEAT MODE	······ 1
Repeat tracks	Press the RPT button ② to play the current track repeatedly
Repeat discs	Press the RPT button @ for more than 2 seconds to play the current
	discrepeatedly

To cancel the track repeat or disc repeat mode, press the RPT button ⑦ again The system will remain in this mode until it is cancelled

This function plays the first 10 seconds of each track or disc sequentially

Playing the beginning of tracks
 (Track Scan)
 Press the SCN button ® to play the first 10 seconds of each track on the current disc in order

Playing the beginning of discs
 (Disc Scan)
 Press the SCN button ® for more than 2 seconds to play the first 10 seconds of each disc in the magazine

To cancel the track scan or disc scan mode, press button ® again. The system will remain in this mode until it is cancelled.

Note

Scan mode will be cancelled when the vehicle ignition is turned off, when any other key operations are performed except time and audio adjustments, or when the disc is ejected

ERROR SIGNS

CD Player

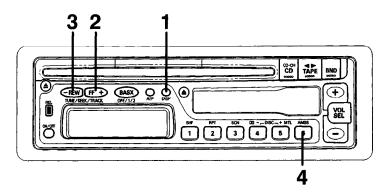
If a problem should occur while operating the built-in CD player, one of the following error signs may be displayed

Error Sign	Cause	Remedy
E0 1	Abnormal mechanism function	Press the eject button Turn the power off and then on again If it is not corrected, contact the place of purchase
17 17 17	The disc is inserted incorrectly	Eject the disc and insert it properly
E07	The disc is dirty	Clean the disc
	The disc is defective	Use another disc
	There is condensation on the optical lens	Leave the disc player off for an hour or so, then try again
E99	Internal connection check error	Turn the power off and then on again If it is not corrected, contact the place of purchase

CD Changer

If a problem should occur while operating the connected CD changer, one of the following error signs may be displayed

Error Sign	Cause	Remedy
E0 :	Abnormal mechanism function	Contact the place of purchase
FNT	The disc was inserted incorrectly	Insert the disc properly
CUT	The disc is dirty	Clean the disc
	The disc is defective	Use another disc
	There is condensation on the optical lens	Leave the disc player off for an hour or so, then try again
		Refer to the instructions supplied with the CD changer
E 30	Excessive temperature has been detected in the vehicle	Allow the car to cool
00 64	The magazine is not fully inserted into the changer No discs in the magazine	Completely insert the magazine into the changer until it clicks into place Load discs into the magazine



DISPLAY MODE CHANGE

. . . 1

The display on the unit can be changed by pushing button 1 Press the DISP button 1 to switch between the clock and audio display When a radio, tape or CD function is performed while the time display is selected, the audio display will appear for 5 seconds, then the display will return to the time mode

ADJUSTING THE TIME

1, 2, 3

To adjust the time, press the DISP button ${\scriptsize \textcircled{1}}$ for more than 2 seconds The time display blinks

To adjust the minute, press the FF+ button ②

To adjust the hour, press the -REW button 3

To advance the time rapidly, hold the \ominus or \oplus button continuously

Press DISP button ① again to start the clock

CLOCK RESET

1,4

Press DISP button ① for more than 2 seconds and the time display blinks While blinking, press preset button 6 ④ to skip to the nearest half-hour as follows:

Example 3 00~3 29 → 3 00

 $330 \sim 3:59 \rightarrow 4:00$

Notes ·

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

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.

TemperatureConsideration

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

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.

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	The volume control is turned down	Turn up the volume control
unit	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 15A 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
	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 pages 3—4
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 signals are weak	Select a station using manual tuning

ACCESSORIES AND HARDWARE

INSTALLATION



Mounting Bracket (Half Sleeve) x 1



Rear Strap (Brace) x 1



Screw M5 x 14 x 2



Hex bolt M8 x 6 x 4



MountingGrommet x 1



Mounting Screw M5 x 1



Removable Trim Ring

x 1

SECURITY OF FRONT PANEL



Screw M2 x 8 x 1

SET REMOVAL



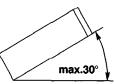
Unlock Levers

x 2

INSTALLATION

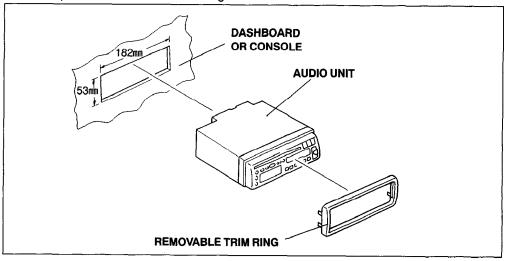
1. BEFORE INSTALLATION

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°



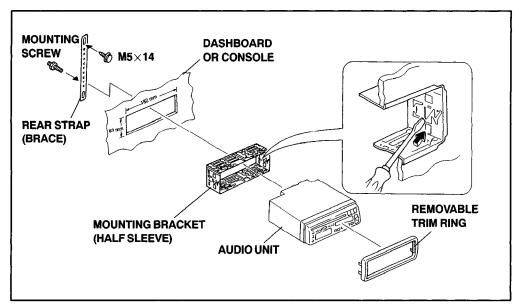
2. ISO MOUNTING WITH REMOVABLE TRIM RING

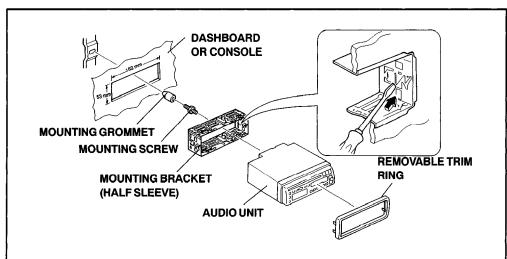
When mounting the unit into a DIN-standard cutout (182 \times 53 mm) in the dashboard or console, attach the provided Removable Trim Ring to the unit



3. INSTALLATION PROCEDURES

1) Installation with Mounting Kit

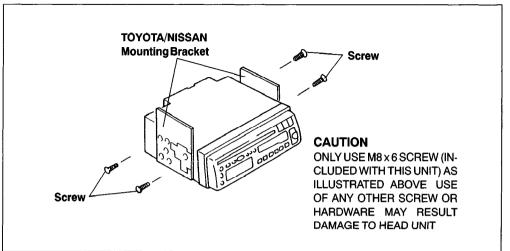




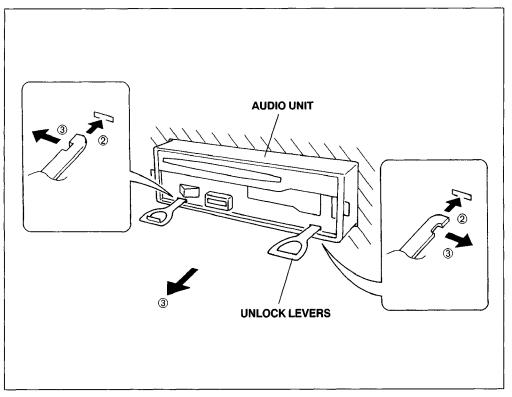
- Insert the mounting bracket into the DIN-standard cutout (182 imes 53 mm) in the dashboard or console
- 2 Bend the mounting bracket stopper outward until the bracket fits snugly in the cutout
- If the rear strap is used
- Push the unit into the mounting bracket until it locks in place
 Secure the rear strap to the audio unit and vehicle dashboard
- If the mounting screw is used
- 3 Install the supplied mounting screw (M5) in the audio unit Cover the mounting screw with the supplied mounting grommet
- Push the unit into the mounting bracket until it locks in place

2) Installation to TOYOTA/NISSAN Vehicles

Install the unit using the existing TOYOTA/NISSAN Mounting Bracket and Screws Use the mounting holes in the unit chassis "T" or "N" is engraved next to each mounting hole Use "T" holes for Toyota vehicles and "N" holes for Nissan vehicles



UNIT REMOVAL

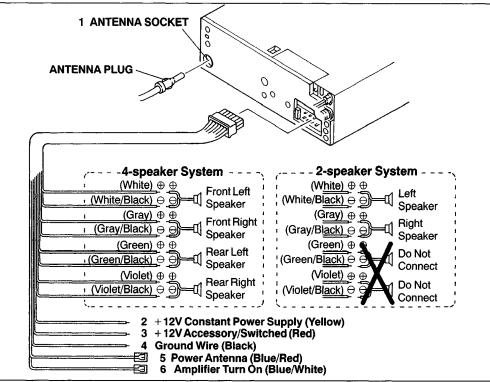


- 1 Remove the front panel by pressing the release knob
- 2 Insert the unlock levers into the slots as illustrated

Note
The jagged side of the key should face outward

3 Slide down keys outward and pull to remove the audio unit

ELECTRICAL CONNECTIONS



↑ 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

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
- Connect to location drawing 10 A amperage or more

3 +12V Accessory/Switched (Red)

- Connect this wire to the terminal which receives power while the ignition switch is at ON or 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)
- Connect to location drawing 100 mA amperage or more

4 Ground wire (Black)

Connect this wire to the vehicle chassis

5 Power Antenna (Blue/Red)

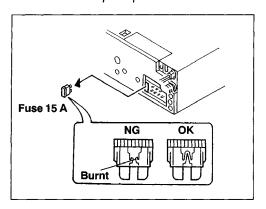
- Connect this wire to the control terminal of a Power Antenna
- · When not using a Power Antenna, this wire is not connected

6 Amplifier Turn On (Blue/White)

- Connect this wire to an external amplifier
- When not using an external amplifier, this wire is not connected

Notes

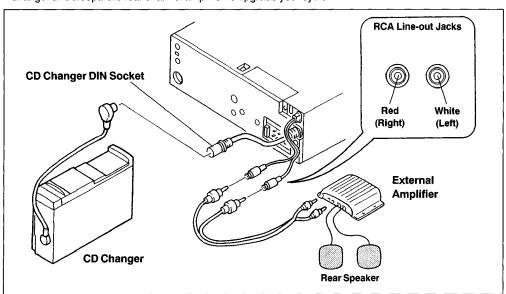
When using a two-speaker installation, the Green, Green/Black, Violet, Violet/Black wires, which
are used for a four-speaker installation, are not used. The ends of these wires must be covered
with electrical tape to prevent them from shorting to the unit or the vehicle chassis.



- When using a two-speaker installation, set the FADER control to the center position
- When fuse replacement is necessary remove the blown fuse by using pliers Then install the new 15 amp fuse

LINE OUT/CD CHANGER CONNECTIONS

 The unit has a built-in CD changer controller and line output terminals You can use a compatible Sanyo CD changer and a separate rear channel amplifier to upgrade your system



CD Changer DIN Socket

• Connect the 8-pin DIN cable, which is supplied with the AX-300, AX-500 or other compatible Sanyo CD changer, to the DIN socket on the back of the unit

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

SPECIFICATIONS

FM TUNER SECTION	
Frequency Range	87 5MHz~107 9MHz
Usable Sensitivity	15dBf
50dB Quieting Sensitivity	30dBf
Frequency Response (±3dB)	50Hz∼12 5kHz
IF Rejection	100dB
Image Rejection	65dB
Signal-to-Noise Ratio	60dB
Selectivity	65dB
Stereo Separation	27dB
Capture Ratio	2dB
Antenna Impedance	75Ω
AM TUNER SECTION	
Frequency Range	530kHz~1710kHz
Usable Sensitivity (S/N 20dB)	20μV
IF Rejection	80dB
Image Rejection	75dB
S/N Ratio	50dB
Antenna Impedance	75Ω
TAPE SECTION	
Wow & Flutter	0 1%
S/N Ratio (Normal)	52dB
S/N Ratio (with Dolby)	62dB
Separation	50dB
Frequency Response	50Hz-15kHz
CD SECTION	
Disc size	5"
Channels	2-channel stereo
Sampling frequency	44 1kHz
D/A converter	Twin, 1-bit
Pickup	Optical 3-beam semiconductor laser
Digital filter	4 fs
Frequency response	5Hz~20kHz
Total harmonic distortion	0 1% (1 kHz)
Dynamic range	85dB
Signal-to-noise ratio	90dB
Wow and flutter	Below measurable limits
Channel separation (1kHz)	85dB

AUDIO SECTION	
RMS Power Rating (3% THD)	20W×4 (14 4 V)
RMS Power Rating (10% THD)	24W×4 (14 4 V)
Maximum Output Power	45W×4CH (15 0 V)
Load Impedance	4Ω
GENERAL	
Operating Voltage	12V (10 5—15 0 V)
Operating Current Maximum	. 13A

IMPORTANT INFORMATION

Because its products are subject to continuous improvement, SANYO reserves the right to modify product designs and specifications without notice and without incurring any obligation