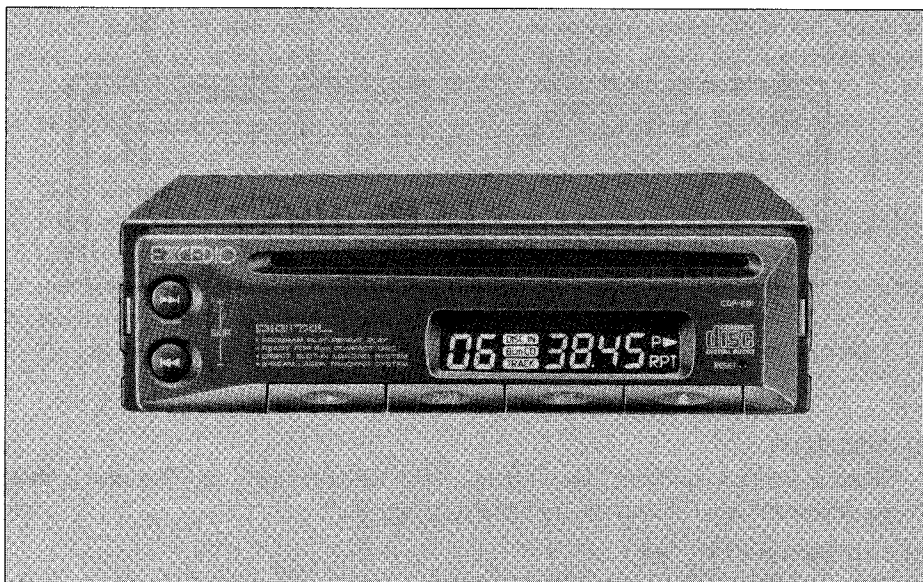


INSTRUCTION MANUAL

EXCEDIO

CDF-201 (G), CDF-201 (A)



COMPACT DISC PLAYER

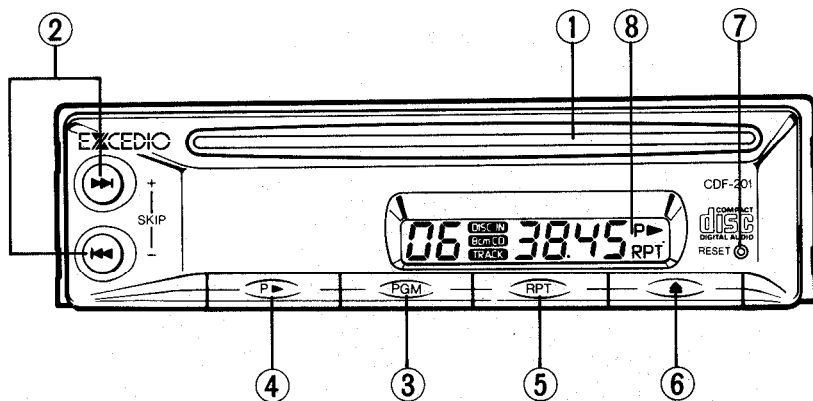
COMPACT
disc
DIGITAL AUDIO

Thank you for purchasing CDF-201 (G) or CDF-201 (A) car compact disc player.
For proper operation and performance, read this instruction manual carefully.

CAUTION

The EXCEDIO Series car stereo equipment is required to operate this player.
— EX-1010(G)/1010(A)/1110(G)/1110(A) —

■ **DIRECTIONS**



1) **DISC SLOT**

Slightly insert a compact disc with its label surface facing up. The disc is then automatically loaded into the unit and play will start.

2) **SKIP button (▶▶, ◀◀)**

By using the SKIP button, the beginnings of particular selection can be easily found.

The track number to be searched will be displayed on the digital display.

3) **Program button (PGM)**

Up to 16 tracks can be programmed to play in any order with this button.

4) **Program Play button (P▶)**

Press to start programmed play.

5) **Repeat button (RPT)**

Push this button once to play one selection on the disc or one programmed selection.

6) **Loading and Eject button (▲)**

Press this button to remove the disc.

Repressing this button, the disc is automatically loaded again and play starts from beginning at the same TRACK number.

7) **RESET button**

8) **Digital display**

■ OPERATION

ORDINARY DISC PLAY

1. Insert a compact disc into the disc slot with the label surface facing up.
The disc is automatically loaded into the unit and play starts at the beginning of the first selection. The "▶" and "DISC IN" indicator will appear, track number and play time are displayed in the digital display.

NO TES:

- *Adjust the sound volume and quality in the car stereo equipment connected to this unit.*
 - *Don't insert a disc with the label side down. The disc will not be played and ejected.*
2. After the whole disc has been played, the pickup will automatically return to the beginning of the disc and play.

3. To take out the disc, press the Loading and Eject button (▲).

The disc come out automatically. Repress the Loading and Eject button (▲), the disc is automatically loaded again and play starts from beginning at the same TRACK number.

NOTE:

- *Once you remove the unit, and you insert it again to play. CD play starts at the first TRACK (01).*

4. To stop the disc play, turn the power off.

To restart the disc play, turn the power on. Playback will be started at the last TRACK number.

Selection Search

If you wish to search the selection, push the SKIP button (◀◀, ▶▶) until the desired track number is indicated on the digital display.

Forward access

Press the (▶▶) side of the button once. The display counter indicator the next TRACK number. The unit will search the beginning of the next selection, and start play it. To search for the selection further ahead, push the button until the desired TRACK number is indicated on the display counter.

Backward access

Press the (◀◀) side of the button once. The beginning of the selection being played is searched for. To search for the selection further back, push the button until the desired TRACK number is indicated on the display counter.

NOTE:

- *When the disc reaches the beginning of the last or first selection, the scanning stops at that point,*

Repeated Play

If you wish to play one selection on the disc only, push the repeat button (RPT).

The RPT indicator will appear in the digital display.

To cancel the repeat play, push the repeat button (RPT) again.

PROGRAMMED PLAY

Up to 16 selections can be programmed to play in any order.

The selection can be programmed during compact disc play.

To program

1. Press the program button (PGM) once.

The program number in the display blink and the time counter disappears.

2. Press the SKIP button within about 20 seconds after pressing the program button. Press the (▶▶) of the SKIP button once. The display counter will indicate the first selection number (01). At the first, you press the (◀◀) of the SKIP button once, the TRACK indicator will indicate the last selection number of the disc.
3. To enter additional selection numbers into the memory, press the program button (PGM) again. The display will indicate next program number. Press the SKIP button to enter the desired selection number.
4. If you wish to stop programming, press the program play button (P▶), programming play will start.

To restart the programming, press the program button once.

5. If you wish to check the memory, press the program button (PGM).

NO TES:

- *Play is not interrupted, even while the selections are programmed.*
- *When the display indicates the last selection number of the disc and the (▶▶) of the SKIP button is pressed, the indications on the display counter will return to "00".*
- *When the display counter indicates the last program number "16", and the program button (PGM) is pressed, the indication on the display will return to the 1st program number "01".*
- *Do not press the SKIP button to check. If the SKIP button is pressed, the selection number in the memory will change. Only use the SKIP feature to cancel or to correct one of the programmed selections.*
- *If you wish to cancel the part of programmed selection, call the program number by pressing the program button (PGM) and press the SKIP button until the selection number is obtained "00".*

To program play

After programming, press the program play button (P▶).

The display will indicate "P" and the programmed selection number, the player will begin to play the PROGRAM NO. 1 selection.

NO TES:

- *If a selection number for PROGRAM NO. 1 has not been stored, the Program Search Logic skips PROGRAM NO. 1 and searches for the next program.*
- *When the memory is empty (no programming) and the program play button is pressed, the player will automatically be set to the normal play mode.*

To stop programmed play

Press the program play button (P▶) again. The player will change to the normal play mode, and will begin normal play at that point. To restart the programmed play press the program play button again, play will start to play the PROGRAM NO. 1 selection.

Operation during programmed play

6. If you wish to start playing from a desired programme number, press the program play button (P▶), then press one of the SKIP button (◀◀, ▶▶) until the desired programme number is indicated on the digital display.
7. If you wish to repeat one programmed track of the disc only, push the repeat button (RPT). When this function is not worked, all programmed selection are automatically repeated.

NOTE:

— *When you take out the disc, the memory for programmed play is automatically cleared.*

CAUTION

This player can not be operated with the HOT button pressed to ON while a cassette tape is playing with the car stereo equipment connected to this player. A disc can be inserted and loaded, but not played.

■ TROUBLE SHOOTING

The following checks will assist in the rection of most problems which you may counter with your unit. Should any problem persist after you have made these check consult your nearest dealer.

Before going through the check list be first refer back to the connection operating procedures.

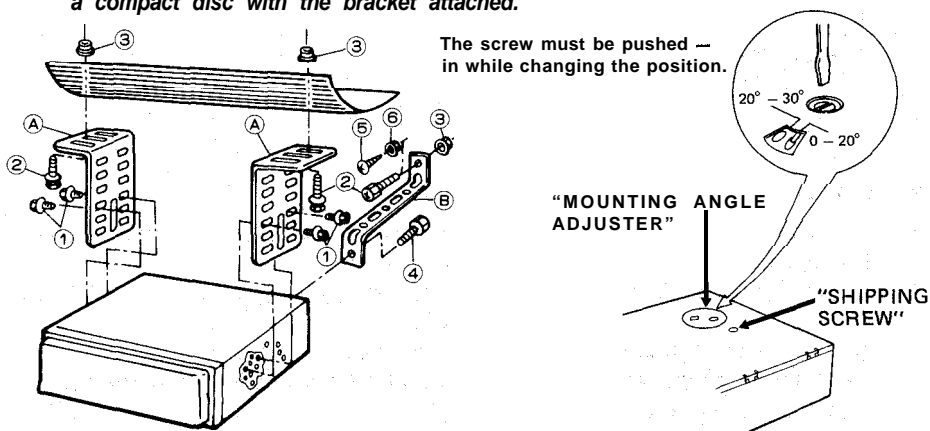
Symptom	Cause	Solution
No power.	The car's ignition switch is not on.	If the power supply is con- nected to the car's accessory circuits, but the engine in not moving, switch the ignition key to "ACC".
	The fuse is blown.	Replace the fuse with another 5A fuse.
Disc cannot be loaded or ejected.	There is already a disc in the player.	Remove the disc in the player, then put in the new one.
	You are trying to put in the compact disc backwards.	Insert the Compact disc with the label side facing up.
	The shipping screw is not removed.	Remove the shipping screw.
	The compact disc is extreme- ly dirty or defective disc.	Clean the compact disc, try to play the new one.
	The temperature in the car is too high.	Cool off the inside of the car, then try again.
	Condensation	Leave the disc player off for an hour or so, then try again.

Symptom	Cause	Solution
No sound.	Adjust the volume knob on the connected car stereo.	Turn the volume adjustment knob to adjust the sound to the level you want.
	The power cord is not connected properly.	Double check the power cord.
	The connection cords are not connected properly.	Check the speaker cords and the other connection cords.
The operation keys do not work.	The built-in microcomputer is operating incorrectly due to noise.	Remove the compact disc, then insert it again. Press the reset button.
Sound skips.	The installation angle is greater than 30°.	Adjust the angle to less than 30°.
	The disc player is not installed correctly.	Fasten the disc player securely.
	The compact disc is extremely dirty or defective disc.	Clean the compact disc, try to play the new one.
	Condensation	Leave the disc player off for an hour or so, then try again.
The sound quality is poor.	The compact disc is defective.	Try another disc. If that disc plays properly, the first disc is defective.
	The compact disc is dirty.	Clean the disc as explained on page 10.

■ INSTALLATION (For under dash)

NO TES:

- When mounting the unit in your car, make sure the unit is level. If you cannot mount the unit level due to your car design, make sure there is no more than 30 degrees tilt up.
- If the mounting angle is between 20° - 30° turn the screw with a screwdriver to 20° - 30° position.
- In order to protect the disc player from shocks during shipping, a shipping screw is attached to the disc player. Remove the screw. The player can not play a compact disc with the bracket attached.



1. Attach the side bracket (A) on each side of the unit with the Hex Head Bolt with spring and flat washer (1), provided in the kit.
2. Locate the unit at the desired installation place and mark a spot for a mounting hole of each bracket (A), then drill a 6.5 mm hole at each marked point.
3. Mount the under dash side bracket (A) with screws (2), and nuts (3).
4. Attach the rear bracket (B) to the back of the unit with the Hex Head Bolt with spring and flat washer (4).
5. Bend the rear bracket (B) as needed to reach the firewall or other structural support and fix the rear bracket (B) with screw (2) and nut (3) or with tapping screw (5) and washer (6).

NO TES:

- Determine the optimum location for the unit. Make sure that controls are easily accessible and that there is no interference with cables, brackets or other parts of the car,
- If you want to the other installation, you should be consult your dealer or installation specialist.

CAUTION

Make sure that the screws supplied are used for the mounting work.

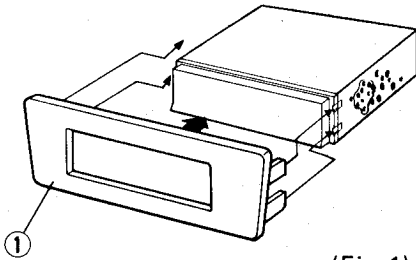
Malfunctioning may occur if any other screws are used.

Tighten up the mounting screws so that they will not be loosened by vibration.

Avoid installing the unit in a location exposed to moisture or high temperatures from a heater, or direct sunlight.

■ INSTALLATION (For DIN size cutout)

1. Fix the trim panel ① to the product.



(Fig. 1)

No.	Parts Name	
①	Trim Panel	
②	Mounting Bracket	
③	Plastic Spacer	
④	Metal Strap	

2. Installation of Bracket

2-1. Insert mounting bracket ② into DIN-standard cutout 182 x 53mm in the dashboard or a console.

2-2. If required, use plastic spacer ③ between mounting bracket and dashboard.
(Fig. 2)

(When the part ② set up to the DIN-standard cutout is loose)

2-3. Bend frame straps (a) of mounting bracket to the outside until the frame is tightend in the cutout. (Fig. 3)

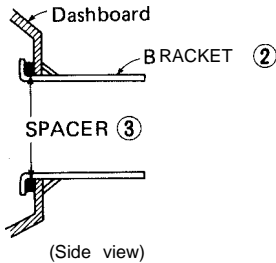


Fig. 2

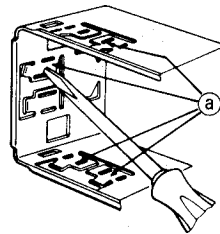


Fig. 3

3. Fix the metal strap ④ to the back of product and insert it into the part @ from the front. Please make sure that it is inserted to the end. (Fig. 4)

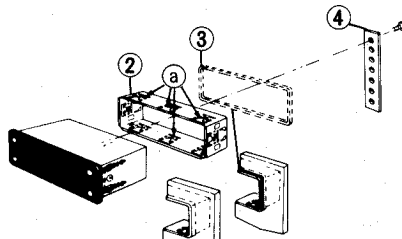


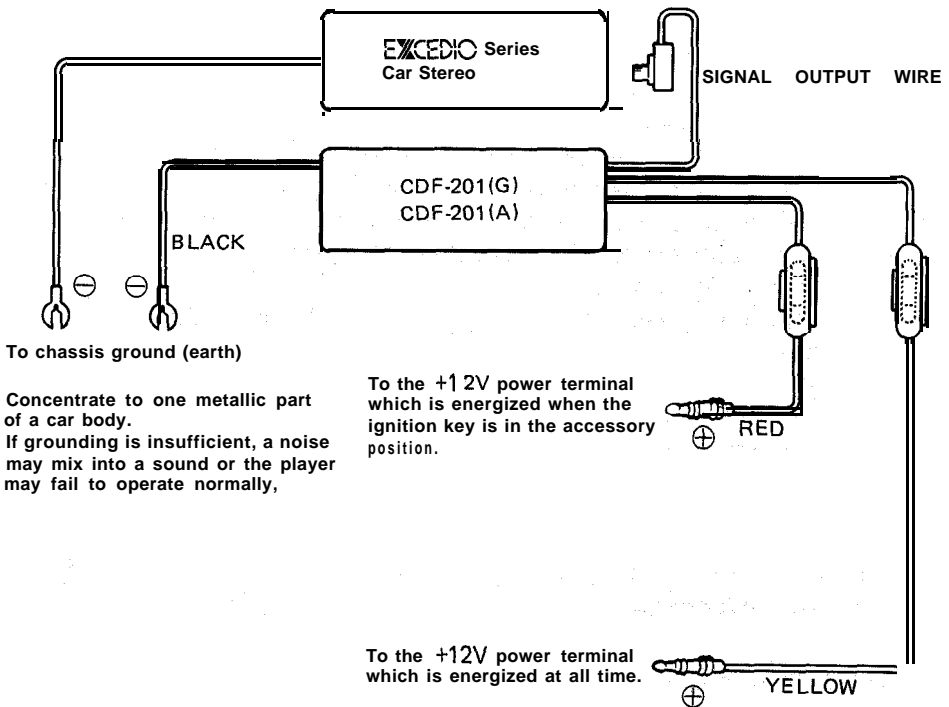
Fig. 4

4. Screw the metal strap ④ to the car body.

■ CONNECTION

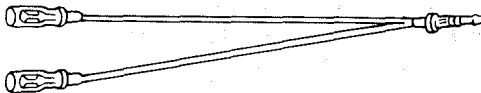
CAUTION

Be sure to connect this player to the EXCEDIO Series car stereo equipment,
- EX-1010(G)/1010(A)/1110(G)/1110(A) -



NO TES:

- Connect the output cord to the rear socket of the car stereo equipment.
- For the details of wiring of the car stereo equipment, refer to the instruction manual for the car stereo. Connect the wire correctly according to the instruction manual.
- If it is difficult to take a power supply, use the supplied power relay cord.
(From CDF-201)



After making the connection, press the RESET button of this player.

■ FOR SAFE AND EFFICIENT OPERATION

- This player is only for use with 12V power. It can not be used in 24V vehicles (trucks and buses).
- When installing this player, avoid the following locations:
 - *Extremely hot places, such those exposed to direct sunlight or hot air coming directly from a heater
 - *Damp places or those where the player can get wet.
 - * Dusty locations
- When cleaning out the car, be sure not to get any water on the player. Water on the player can damage it.
- Sometimes the player will not operate properly in extreme hot or cold. In this case, wait until the temperature in the car is more normal, then use the player. Closed up cars in the summer get very hot. If the temperature inside the player goes above its reference temperature, a protective circuit automatically stops the player and ejects the disc. In this case, open the window to cool off the car, then start up the player again.
- Never put anything else in the insert slot for compact discs. The inside of the disc player is precision equipment that could be damaged by any foreign objects.
- When not using the disc player, always remove the compact disc. Do not leave an ejected disc sitting on the edge of the disc player for a long time. This can expose the disc to direct sunlight and other causes of warping. Always put each disc in its case and store.
- To prevent accidents, keep the sound low enough that you can hear outside sounds when driving.
- Do not try to take, apart the disc player and adjust it. The insides of this disc player are precision equipment.
- Do not attempt to clean the unit with chemical solvents.

NOTES ON MOISTURE CONDENSATION

During cold weather, water drops sometimes form on the optical lens of the disc player right after the heater is turned on.

On a rainy day or in a very damp area, moisture may condense on the laser lenses inside the unit.

Should this occur, the unit will not operate. In this case, remove the disc and wait for about an hour until the moisture evaporates.

SOUND SKIP

When driving on a very rough road, sound will sometimes skip. This will not scratch or damage the disc.

■ HANDLING THE DISCS

Dirt, dust, scratches, and warpage cause skips in the play back and a deterioration of sound quality. Here is how to take care of your discs.



— Use compact discs that have the mark shown on the left.

- Fingerprints and dust should be carefully wiped off the disc's signal surface (glossy side) with a soft cloth. Unlike conventional records, the compact disc has no grooves to collect dust and microscopic debris so gently wiping with a soft cloth should remove most particles. Wipe in a straight motion from the inside to the outside of the disc. Small dust particles and light stains will have absolutely no effect on reproduction quality.
- Never use such chemicals as record sprays, antistatic sprays or fluid, benzene or thinner to clean compact discs. Such chemicals would irreparably damage the disc's plastic surface.
- Discs should be returned to their cases after use to avoid serious scratches that could cause the laser pickup to skip.
- Do not expose discs to direct sunlight, high humidity, or high temperatures for extended periods. Long exposure to high temperatures can warp the disc.
- Do not stick paper or write anything with a ball-point pen on the disc surface.

■ SPECIFICATION

Compact disc System	Compact disc digital audio system
Disc	Compact disc
Laser diode properties	Material: GaAlAs Wavelength: 780 nm Laser output: Max. 0.5 mW
Spindle speed	200 r.p.m. to 500 r.p.m. (CLV)
Error correction	Cross Interleave Read Solomon Code
Number of channels	2
D-A conversion	16-bit linear
Frequency response	5 – 20,000 Hz \pm 1.0 dB
Harmonic distortion	0.03% (1 kHz)
Dynamic range	90 dB
Signal to noise ratio	90 dB
Channel separation	75 dB
Wow and flutter	Below measurable limit
Disc	
Track pitch	1.6 μ m
Sampling frequency	44.1 kHz
Quantization	16 bit linear quantizing/channel
Modulation system	EFM
Transfer rate	2.03 Mbit/sec. (before modulation)
General	
DC Power Supply	DC 12 Volts (11 ~ 16V) Negative ground (earth) only
Current Drain	500 mA
Dimension (W x H x D)	178 x 50 x 147 mm
Weight	1.3 kg
Technical data subject to changes without notice	

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