

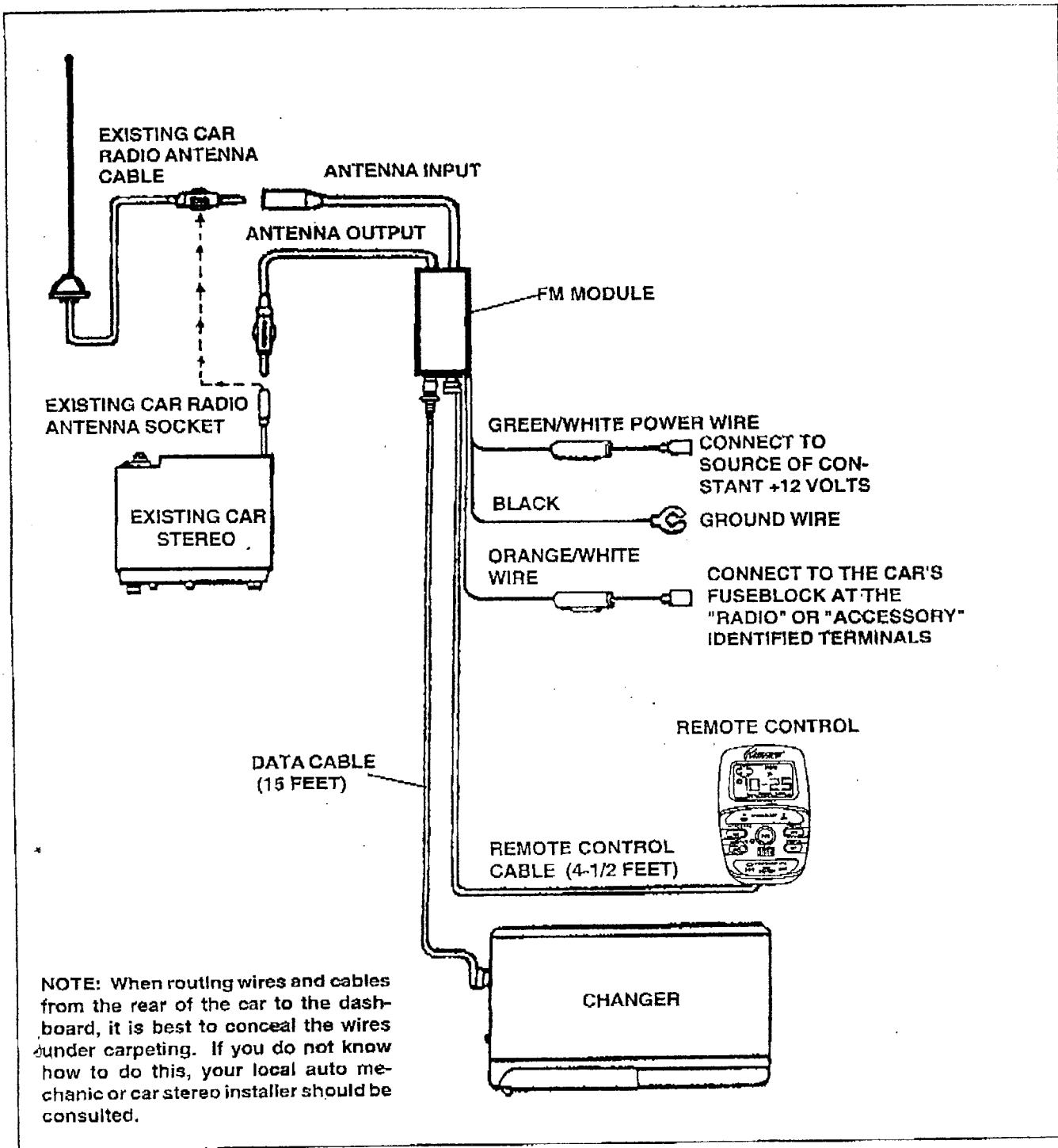
## ATTACHMENT J – USERS MANUAL

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# OVERALL WIRING VIEW

This page is provided to give you a quick look at the entire wiring of the ACC-52. Use it to plan your wire routing paths and possible connection points. Detailed wiring is explained in the following pages.



To: D-EMC (031-712-1662)

ATTN: 박사영님

From: 김희영/NS

FM MODULATOR의 I/B 준비했습니다.

SPEC에 따라 수정이 필요합니다. (특히 LAB에서 측정 결과에 따라)

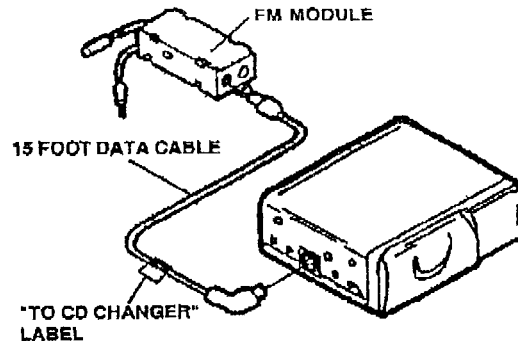
THANK YOU

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# WIRING THE CD CHANGER

## DATA CABLE

The 15 foot data cable connects the changer to the FM module. First connect the end of the data cable labelled "TO CD CHANGER" to the socket on the left side of the changer. Route the other end of the cable up to the car's dashboard area near your existing car radio and plug the data cable into the mating socket on the end of the FM module.

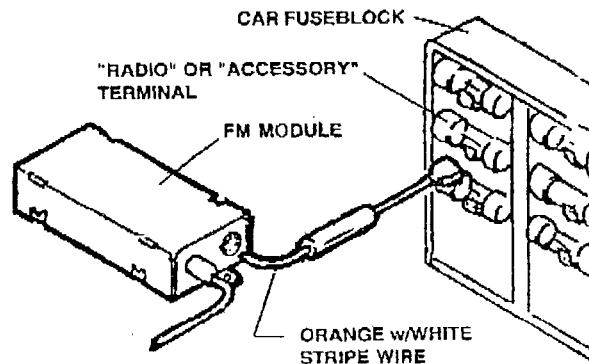


## WIRING THE FM MODULE

The FM module should be positioned near your existing car stereo and the 15 foot data cable should be connected to it. Make the following connections to the FM module:

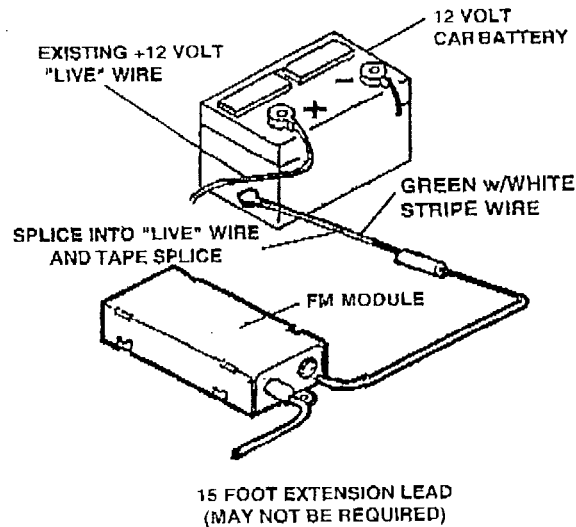
### ORANGE WITH WHITE STRIPE WIRE

Attached to the FM module is a 3 foot orange with white stripe wire. This is to be connected to a + 12 volt circuit that is only live when the ignition is on. The best connection point is at the car's fuse block at the "RADIO" or "ACCESSORY" identified terminals.



### GREEN WITH WHITE STRIPE POWER WIRE

The 3 foot green with white stripe wire must be connected to a "live" 12 volt wire in the vehicle. You will have to check the wire you connect it to and make certain it is always "live" even when the car's ignition is turned off. If none is found, route the wire to the car's fuseblock and connect it to a "live" circuit there.

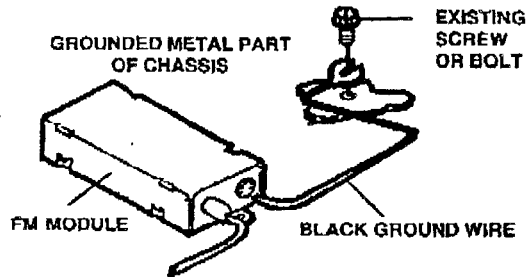


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# WIRING THE FM MODULE (con't.)

## BLACK GROUND WIRE

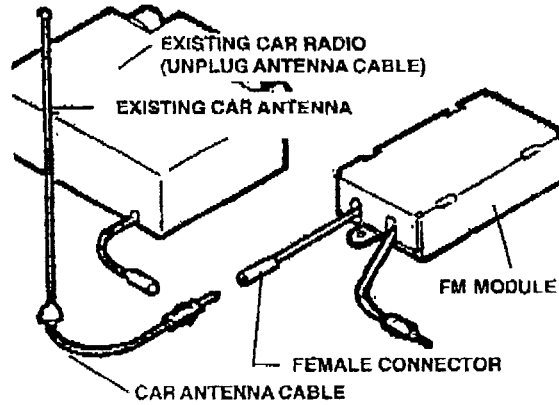
The 3 foot black wire attached to the FM module must be secured to a grounded metal part of the car's chassis. If you cannot find an existing bolt or screw to fasten it to, you must drill a hole in the metal and secure it with a screw. To insure a good ground, remove any paint or grease where the wire will connect.



## CAR ANTENNA INPUT

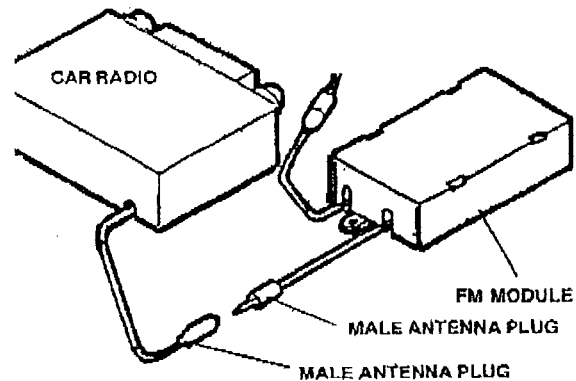
Locate your existing car radio antenna cable. This is normally a black cable about as thick as a pencil and will be plugged into a socket on the rear of your car radio. Unplug this antenna lead and plug it into the mating female socket on the FM module.

**IMPORTANT** - Some Import cars have a special dual antenna called "DIVERSITY ANTENNA". If your car has this type of antenna system, you will find the antenna cable will not fit the socket on the FM module. Use of the ACC-52 with "DIVERSITY ANTENNA" is not recommended. You may also find some late model GM cars have an antenna plug that is too small to mate with the FM module. If this is found, call Audiovox's Toll-Free Assistance for a special adaptor. This adaptor can also be purchased at any car stereo installation center.



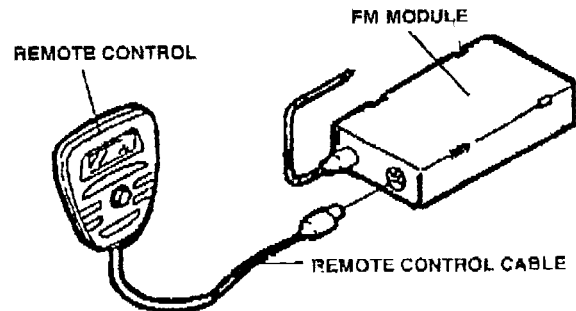
## RADIO ANTENNA OUTPUT

Attached to the FM module is a male antenna plug. Simply plug this into the socket on the car radio from which you just removed the car antenna cable.



## REMOTE CONTROL CABLE

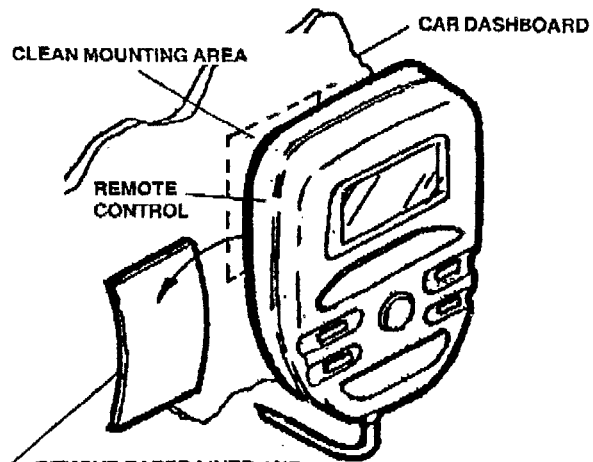
Attached to your remote control is a cable that plugs into the remaining socket on the end of the FM module. Position the remote control near the area you will permanently mount it and route the cable to the FM module. Plug the cable into the FM module.



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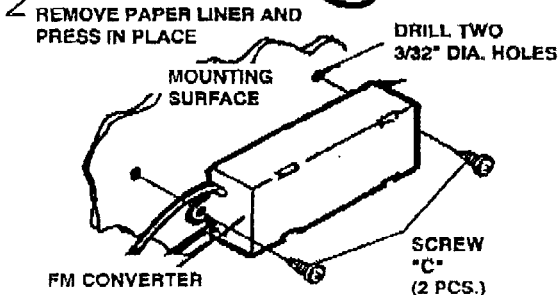
# MOUNTING THE REMOTE CONTROL

On the back of the remote control you will find an adhesive backed "Velcro" pad. Select the desired mounting area on your car dashboard that will allow ease of use and full visibility of the LCD display. Peel off the protective paper on the adhesive pad. Make certain the dash area is clean of all wax, grease, etc., and press the remote control in place. Allow a 1/2 hour for the adhesive to secure, then you will find the Velcro pads will allow you to remove the remote control for hand-held use if desired and replace it as often as needed.



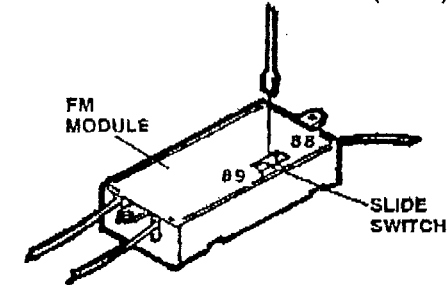
# MOUNTING THE FM MODULE

There are two mounting tabs on the FM module. It can be secured by two methods. Use two screws "C" and drill two 3/32" holes or use electricians tape or twist ties (not provided).



# ADJUSTMENT OF FM MODULE TUNING

To operate your ACC-52, your car radio must be first tuned to the FM band at 89.1MHz. If you find interference on this frequency, you can change the output frequency from the FM module to 88.7 MHz., by moving the slide switch on the FM module to the 88.7 MHz. position. You will then have to tune your radio to 88.7 MHz. instead of 89.1 MHz. when using your CD changer.



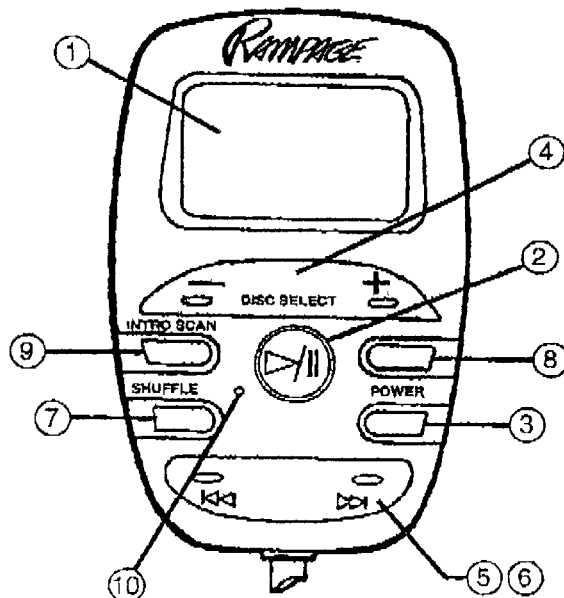
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# OPERATING INSTRUCTIONS

Upon inserting a loaded CD magazine into the changer, the unit will begin automatically checking the magazine for the number of discs loaded and their locations. This will occur even if the vehicle's ignition is turned off. This process will take approximately 45 seconds. During this time, the remote control function will be inoperative.

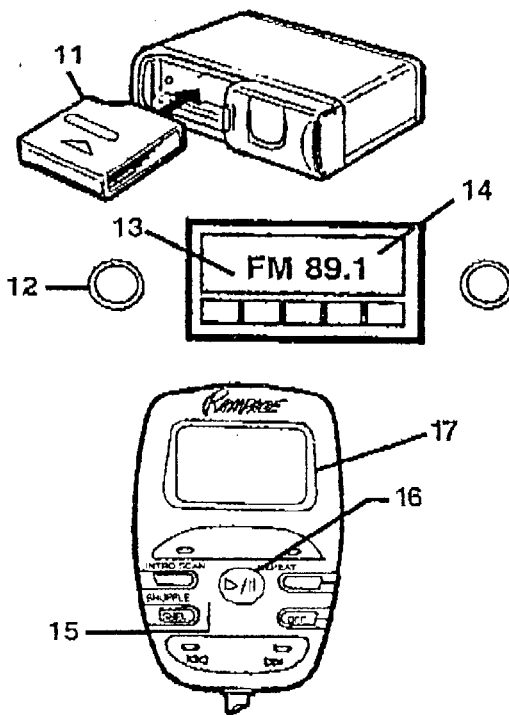
## CONTROLS

- ① LCD Display
- ② Play/Pause (▶/||)
- ③ Power Off Switch (OFF)
- ④ Disc Select (+ -)
- ⑤ Track Select (◀▶)
- ⑥ Track Search (◀▶)
- ⑦ Track/Disc Shuffle (SHFL)
- ⑧ Track/Disc Repeat (RPT)
- ⑨ Track/Disc Scan (SCN)
- ⑩ Reset Button



## PREPARING FOR OPERATION

1. Load CD magazine ⑪ and insert into changer as described on page 16.
2. Turn on your car ignition and your car stereo ⑫ and select "FM" band ⑬.
3. Tune to 89.1 on the FM band ⑭ unless you set the selection switch on the FM module to 88.7; then tune to 88.7 on the FM band.  
 Note: You may find that it will be easier to use one of your presets specifically for CD operation.
4. Depress the "RESET" button ⑮ on the remote control.  
 Note: This is only required the First Time you use the Changer.
5. Turn on the CD player by pressing the Play/Pause button ⑯. The CD panel ⑰ will illuminate and disc number 1 will begin play.
6. Adjust your car radio's volume, balance and tone controls for desired sound.
7. When the last track on disc 1 has played, the unit will automatically advance to the next disc in sequence and begin playing. This will continue until all discs have been played at which time the unit will begin playing disc number 1 again.



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## USE OF CONTROLS

### ① LCD DISPLAY

The LCD Display Panel will illuminate when the CD changer is operating. Different symbols will appear depending on the function and operation in use. Each display is explained in the applicable function explanation below.

### ② PLAY / PAUSE (▶ / ||)

Pressing this button turns on the CD changer, illuminates the LCD panel and begins play of disc #1 if a new CD magazine has been loaded into the changer. If a magazine was already in the changer, play will resume from the track on the disc previously in play. Play of the disc is shown by the indication ▶ and the rotating disc symbol on the LCD panel. Pressing the button again will temporarily stop play of the disc. The pause indication || will appear on the LCD panel and the disc symbol will stop rotating and flash instead. Press the button again to resume play of the disc.

**NOTE:** If left in the PAUSE mode for 5 minutes, the unit will automatically shut off.

### ③ POWER OFF SWITCH (OFF)

Press this switch to turn the CD changer off and return to normal FM reception.

### ④ DISC SELECT (- +)

Press the disc select button to select the desired disc for play as shown on the LCD panel. The unit will automatically load the selected disc and begin play. To advance to a higher number disc, press the + side of the button. To return to a lower number, press the - side.

### ⑤ TRACK SELECT (◀▶)

The Track Select function is used to quickly access the beginning of a particular track. Press Forward Track Select (▶) or Backward Track Select (◀) to locate the desired track as shown by the track number indication on the LCD panel.

### ⑥ TRACK SEARCH (◀▶)

High-speed audible search to any section of the disc can be made by the search functions. Press and hold the ▶ button to advance quickly in the forward direction or press and hold the ◀ button to advance rapidly in the backward direction. During search operation, the rotation disc symbol will turn faster and the appropriate symbol ◀ or ▶ will flash on the LCD panel. When the forward search ▶ button is held down and end of the last track is reached, or the backward search ◀ is held down and the unit reaches the beginning of the first track on the disc, the unit will enter the Pause mode until the button is released.

### ⑦ TRACK / DISC SHUFFLE (SHFL)

When the Shuffle button is pressed, the indication SHFL will appear on the LCD panel and the tracks on the disc will be played in a random, shuffled order. The Track Skip 5 function will also select tracks in the shuffled order instead of the normal progression. The Track Shuffle mode can be cancelled by

pressing the Shuffle again, or by activating the Scan 9 or Repeat 8 functions.

When the Shuffle button is pressed and held longer than 2 seconds, the SHFL and DISC indications will appear on the LCD panel and the discs in the magazine will be played in a random shuffled order, as well as the tracks on each disc. When all the tracks on the selected disc have been played, the next disc will be selected in shuffled order and its tracks will be played in shuffled order. The Disc Shuffle mode can be cancelled by pressing the Shuffle button again, or by activating the Scan 9 or Repeat 8 functions.

### ⑧ TRACK / DISC REPEAT (RPT)

When the Repeat button is pressed, the indication RPT will appear on the LCD panel and play of the selected track will be continuously repeated until the Repeat mode is cancelled by pressing the Repeat button again or by activating the Scan 9 or Shuffle 7 functions.

When the Repeat button is pressed and held longer than 2 seconds, the RPT and DISC indications will appear on the LCD panel and play of the selected disc will be continually repeated until the Disc Repeat mode is cancelled by pressing the Repeat button again or by activating the Scan 9 or Shuffle 7 functions.

### ⑨ TRACK / DISC SCAN (SCN)

When the Scan button is pressed, the indication "SCN" will appear on the LCD panel and the first 10 seconds of each track on the disc will be played in order. When a desired track is reached, press the Scan button again and play of that track will continue (SCN will disappear from the display). Scan mode will be cancelled by activating any other function (Repeat, Shuffle, Disc Select, Track Select, or Track Search). When the Scan button is pressed and held for longer than 2 seconds, the SCN and DISC indications will appear on the LCD panel and the first 10 seconds of the first track of each disc in the magazine will be played. When a desired disc is reached, press the Scan button again and play of that disc will continue (SCAN and DISC will disappear from the display). Disc Scan mode will also be cancelled by activating any other function (Repeat, Shuffle, Disc Select, Track Select, or Track Search).

### ⑩ RESET BUTTON

A reset button is located on the front panel of the remote control which must be activated with a pen or other thin object as it is recessed to prevent accidental engagement. The reset circuitry is provided to protect the unit's microprocessor and laser pick-up system and should only be activated under the following circumstances:

1. Initial installation after all wiring is completed (this must be done).
2. If abnormal disc operation is encountered, the reset button may be pressed to clear the system and return to normal operation.

**IMPORTANT:** Use of the Reset button on the CD Changer will cause the CD magazine to be automatically ejected. Make certain changer door is fully opened prior to using Reset.

**CAUTION:** When the CD magazine is ejected by the use of the Reset button, whichever disc was in play prior to depressing Reset will be left in the play position in the changer. It is critical that before re-inserting the CD magazine, you must REMOVE ALL DISCS from it. After you have inserted the empty CD magazine, depress "EJECT" on the changer and the "In play" disc will be loaded into the empty magazine. You may then remove the magazine and re-load as many discs as desired.

**WARNING:** Avoid use of Reset buttons after initial use unless you have a definite abnormal disc operation. Use the EJECT button on the changer to remove the CD magazine for normal operation.

## HINTS FOR CORRECT AND SAFE OPERATION

This CD Changer is designed to be operated only on 12 volt DC negative ground systems. The unit can not be used on 24 volt or positive ground systems.

### TEMPERATURE

The unit may not operate correctly in extremely hot or cold temperatures. It is equipped with a built-in thermal protection circuit which will stop operation of the unit when the temperature reaches the pre-set level. If this should happen, the unit will resume operation when the vehicle returns to a normal temperature range.

Remove the magazine from the unit when it is not being used during hot weather. If the discs are left in an extremely hot car they may warp. If the CD changer is not used for long periods of time, remove the compact discs from the magazine, and store them in their cases.

### CONDENSATION

Moisture can condense on the laser lens of the CD changer during rainy and humid days, or right after the heater is turned on in the car (if the changer is mounted in the passenger compartment). If this should happen the unit will not operate correctly. To remedy the situation, remove the discs from the unit and wait approximately one hour. During this time the moisture will evaporate and the unit will operate normally.

### INTERRUPTIONS IN SOUND (Skipping)

The sound from the unit may "skip" and be interrupted if the anti-vibration springs are not set correctly, if the changer is mounted on-end or upside-down, or when travelling on very rough road surfaces. If this should occur, check for errors made during installation or wait for the road surface to improve.


### 3" (8cm) CD-SINGLES

This unit is not designed to play 3" (8cm) CD-Single discs. Inserting a 3" disc into the magazine, either with or without a 3" disc adaptor, can damage the changer and the disc. Such damage will not be covered by the Warranty on this product.

## HANDLING THE DISCS

Dirt, dust, scratches and warpage cause sound skips during playback and a deterioration of sound quality. To take proper care of your discs:



1. Use compact discs that have the  logo.
2. 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 or light stains will have absolutely no effect on reproduction quality.
3. Never use such chemicals as record sprays, antistatic sprays or fluids, benzine or thinner to clean compact discs. Such chemicals could irreparably damage the disc's plastic surface.
4. Discs should be put back in their cases after use to avoid serious scratches that could cause the sound to skip.
5. Do not expose discs to direct sunlight, high humidity, or high temperatures for extended periods of time. Long exposure to high temperatures can warp the disc.
6. Do not stick paper, labels, or tape on the disc surface.
7. Do not write with any type of pen, pencil, or marker on the disc surface.
8. To minimize fingerprints and smudges on the signal surface, always try to hold the discs by their outer edge and center hole.



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## CD CHANGER OPERATING INSTRUCTIONS

This CD Changer is designed to operate through a compatible Audiovox car stereo which incorporates the controls and display functions or through the FM section of any car stereo. Please check with your Audiovox stereo specialist for recommendations of the models that will work with this changer. The specific operating instructions for the changer will be contained within the Owner's Manual of the compatible unit.

### SPECIFICATIONS:

**Changer:**

Frequency Response:	5 - 20,000 Hz $\pm$ 1dB
Distortion:	0.008% @ 1kHz
Dynamic Range:	95 dB
Signal-to-Noise Ratio:	95 dB
Channel Separation:	70 dB @ 1kHz
Wow & Flutter:	below measurable limits
Dimensions:	9-5/8" W x 3-3/8" H x 6-7/8" D 245 mm x 85 mm x 174 mm
Operating Voltage:	12 Volts DC, negative ground
Current Drain:	800mA (Playback/loading/ejecting)

**FM Modulator:**

Output Frequency: 88.7/89.1 MHz (Switchable)

**Accessories Supplied:**

10-disc magazine, P/N ACC-52MAZ  
Mounting hardware (1 set)  
Connecting cable (1ea.)