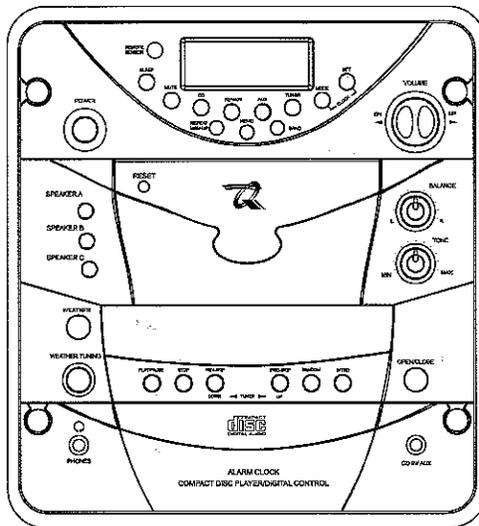# OWNER'S MANUAL
QX-3701
IN-WALL TIME CLOCK /AM/FM RADIO AND COMPACT DISC PLAYER

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOSTURE. DO NOT OPEN CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

The lightning flash and arrowhead within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.

The exclamation point within the triangle is a warning sign alerting you of important Instructions accompanying the product.

Please record the serial number located on the rear of the unit in the space below.

Serial Number_____

IMPORTANT NOTES

- Avoid installing the unit in locations described below:
- Places exposed to direct sunlight or close to heat radiating appliances such as electric heaters.
- On top of other stereo equipment that radiates too much heat.
- Places lacking ventilation or dusty places.
- Humid or moist places.

- Operate controls and switches as described in the manual
- Before turning the power switch on for the first time, make sure all necessary connecting cords are properly installed.

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IMPORTANT SAFEGUARDS

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR AUDIO EQUIPMENT.

(FOR U.S.A)

CAUTION:

- **Read all of these instructions.**
- **Save these instructions for later use.**
- **Follow all warnings and instructions marked on the audio equipment.**

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Water and Moisture** – The appliance should not be used near water, for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool.

6. **Carts and Stands** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
   6A. An appliance and cart combination should be moved with care. Quick stops ,excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
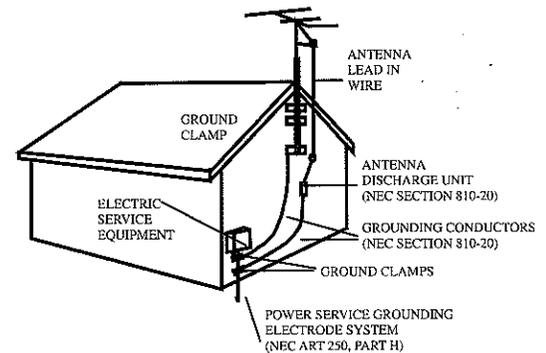7. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling in accordance with the mounting dimensions.
8. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug or a similar surface that may block the ventilation openings; or place in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Grounding** – The precautions that should be taken so that the grounding means of the AC connecting power cord is not defeated.
12. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** – The appliance should be cleaned with a slight dampened cloth. Do not use harsh chemicals, cleaning solvents, strong detergents, etc.
14. **Power lines** – An outdoor antenna should be located away from power lines.
15. **For Speaker Connections** – Eighteen (18) American Wire Gauge (AWG), Standard Wire, or larger, must be used. The wire of preference is 18/2 AWG Standard. Failure to use 18 AWG Standard Wire, or larger, will void the product warranty.
16. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provided some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code. ANSI/NFPA NO. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure below.

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810-20)

GROUND CLAMPS

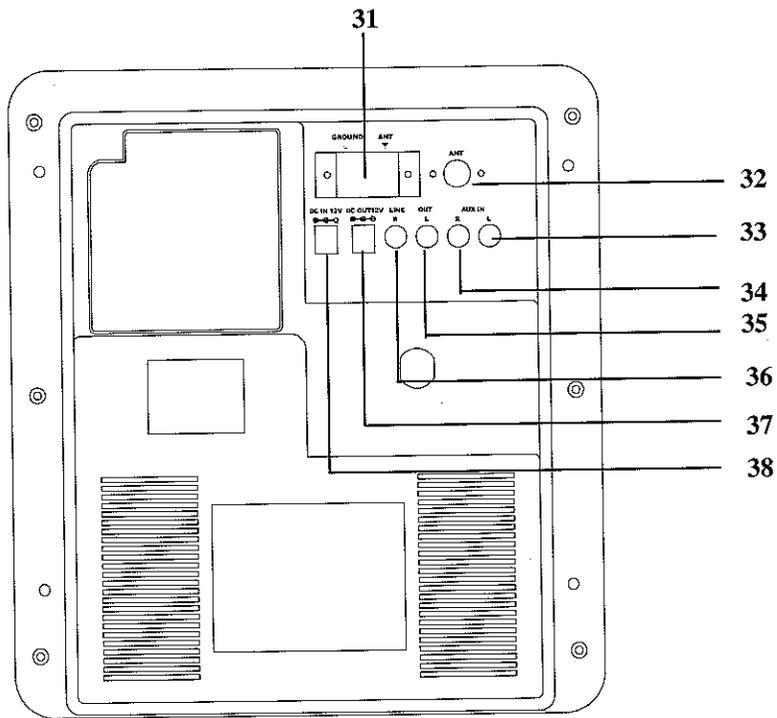POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

Notes:
a. Use No. 10 AWG copper or No. 8 AWG aluminium or No. 17 AWG copper plate steel or bronze wire, or larger as ground

wire for both mast and lead-in.

qualified service personnel.

b. Secure lead-in wire from antenna to antenna discharge unit and mast ground wire to house with stand-off insulators, spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.

c. Mount antenna discharge unit close as possible to where lead-in enters house. An outside antenna system should not be located in the Vicinity of overhead power lines or other electric light or Power circuits, or where it can fall into such power lines or Circuits. When installing an outside antenna system, extreme Care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. **Non-use Periods** – The power cord of the appliance should be unplugged from the outlet when left un-used for a long period of time.

18. **Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

19. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:

    A. The power-supply cord or the plug has been damaged.

    B. Objects have fallen, or liquid has been spilled into the appliance or other moisture.

    C. The appliance has been exposed to rain.

    D. The appliance has been dropped, or the enclosure damaged.

20. **Servicing** – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to
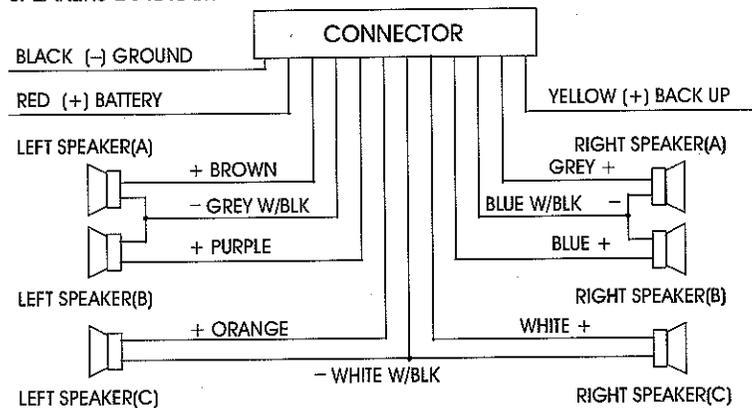
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FRONT VIEW:

BACK VIEW

WIRE CONNECTION

SPEAKERS DIAGRAM

```
                    ┌──────────────────────────┐
                    │        CONNECTOR          │
                    └──────────────────────────┘
BLACK (−) GROUND

RED (+) BATTERY                          YELLOW (+) BACK UP

LEFT SPEAKER(A)                          RIGHT SPEAKER(A)
                                         GREY +
         + BROWN
         − GREY W/BLK              BLUE W/BLK   −

         + PURPLE                       BLUE +

LEFT SPEAKER(B)                          RIGHT SPEAKER(B)

         + ORANGE                  WHITE +

              − WHITE W/BLK
LEFT SPEAKER(C)                          RIGHT SPEAKER(C)
```

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CONTROLS:

1. Sleep Button
2. Mute Button
3. CD Button
4. Repeat Memo -up Button
5. Remain Button
6. Memo Button
7. AUX. Button
8. Band Button
9. Tuner Button
10. Mode Button
11. Set Button
12. Volume Control
13. Balance Knob
14. Tone Knob
15. Open/Close Button
16. CD/AUX Input Jack
17. Intro Button
18. Random Button
19. CD FWD-Skip Button &Tuner Up Button
20. CD REV-Skip Button &Tuner Down Button
21. CD Stop Button
22. CD Play /Pause Button
23. Headphone Jack
24. Weather Band Tuning Knob
25. Weather Band Button
26. Auxiliary Speaker C Selection Button
27. Auxiliary Speaker B Selection Button
28. Main Speaker A Selection Button
29. Reset Button
30. Power Button
31. AM/Weather Band Antenna Post
32. AM/FM Antenna Jack
33. Aux. Input Left Channel
34. Aux. Input Right Channel
35. Line Output Left Channel
36. Line Output Right Channel
37. DC Out Jack
38. DC In Jack

INTRODUCTION

The QX-3701 is a compact electronic audio device with functions of a CD player, AM/FM Radio Player integrated in ONE. The slim cabinet construction makes the unit an ideal wall radio for homes, recreational vehicles, custom vans, hotels/motels, etc.

Its features include:
— AM/FM Stereo Tuner
— Weather forecast Tuner
— Radio station preset
— Laser Compact Disc Player
— Main Speaker A , Auxiliary Speaker B , and Auxiliary Speaker C Output System.
— LCD Display
— CD Track Memory
— Line Output Jack
— Aux./CD IN Jack
— Alarm & Time Clock
— Headphone Jack

NOTES:
1. Connect the required speakers before operating the unit.
2. Use external antenna for optimum radio reception when necessary.

Speaker Installation

The QX-3701 is designed with outputs for speakers, main speaker A , Auxiliary Speaker B, and Auxiliary Speaker C . Main Speaker A output system is the master speaker output and is for the speaker-pair installed closest to the unit.
Auxiliary Speaker B output system provides an additional speaker output pair for use in another location.

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Auxiliary Speaker C output system provides you an additional speaker output pair for use in another location.
To install a speaker-pair to the Main Speaker A output system
1. Select two to four 4-ohm speakers.
2. To wire speakers refer to the wire connection diagram. (Page 7)

If you also want to install speakers to the Auxiliary Speakers, simply repeat steps 1 through 2.

CAUTION: Each speaker output channel is marked with "+" and "-". Do not electrically connect them together.

EXTERNAL ANTENNA INSTALLATION

1. When installing an external antenna, pay close attention to the antenna safety instructions in **"IMPORTANT SAFEGUARDS"**.
2. To connect your external antenna to the unit's antenna jack, first have the external antenna's connecting wire equipped with a suitable connector that fits the antenna jack, then plug the connector into the jack.
3. **AM/FM ANTENNA JACK -** You can receive AM and FM signals by connecting the external antenna to it.

LINE OUTPUT

1. **Line Output Right Channel**   For external connection to the Right Channel Input of your own amplifier.
2. **Line Output Left Channel**   For external connection to the Left Channel Input of your own amplifier.

AUX.INPUT
1. Function Switch to the AUX position.
2. CD IN/AUX on front panel or AUX IN Jack on back of the unit is for input of external CD or other AUXILIARY source.
Notes:
1. When connecting Line Output or Aux. Input jacks, remember to switch off both the QX-3701 and your amplifier or external source.
2. Each channel is marked "Right" and "Left". Do not reverse the connections (AUX INPUT Jack is located on the rear of the unit)

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3. CD IN/AUX is a ∅3.5mm stereo plug input jack. (CD IN/AUX Jack located on the front panel.)

DC OUT JACK

The DC Output Jack is centered negative " $\oplus$ $\ominus$ $\ominus$ ". Allows you to Connect it to your own amplifier.
Note: 1.When connecting DC OUT jack , remember to power off both the QX-3701 and your own amplifier.
    2. Ensure polarity is correct.
    3. The DC Output is available while the power of QX-3701 is turned on.

DC IN JACK

The DC In Jack is that the external power source for connecting the AC adaptor to the unit.
The DC in jack is centered negative " $\oplus$ $\ominus$ $\ominus$ ". The DC IN jack is equal to the black wire and red wire on the back of QX-3701.

HEADPHONE JACK
This unit is equipped with a Headphone Jack.
NOTE: Main speaker A, Auxiliary Speaker B, and Auxiliary Speaker C will all be louden when the headphones is plugged in.

CLOCK & ALARM SETTING

To start the clock setting mode, Press the SET button (alarm time will begin to flash). Once in clock setting mode each press of the SET button will cycle the clock as follows:
1st Press: Alarm hour will flash
2nd Press: Alarm minute will flash
3rd Press: Month will flash
4th Press: Date will flash
5th Press: Hour will flash
6th Press: Minute will flash
Once the function you wish to set begins to flash (alarm hour, alarm minute, month, etc.) press the MODE button to change to desired

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setting. Press the SET button to move to the next function.

ALARM OPERATION
Once the desired time for the alarm has been set (see *CLOCK & ALARM SETTING)*
 turn on the alarm as follows:
1. Press the SET button (alarm time will begin to flash).
2. Press the MODE button (a small bell will appear indicates the alarm is on).
3. Pressing the MODE button a second time will turn on both alarm and hourly chimes. (Both the alarm indicator and chimes indicator will appear in the right hand corner of the display).
4. Pressing the MODE button for a third time will turn only the chimes on (chimes ring hourly).
5. Pressing the MODE button for a forth time will turn both the alarm and chimes off.

RADIO OPERATION
1. Press POWER button to "ON" position.
2. Press the TUNER button.
3. Set VOLUME to desired level.
4. Press SPEAKER Select Switch (A) for (A) Speakers to have sound.
   Press SPEAKER Select Switch (B) for (B) Speakers to have sound.
   Press SPEAKER Select Switch (C) for (C) Speakers to have sound.
5. Switch the BAND Switch to your desired band. (AM, FM Stereo).
6. Press Tuner button UP or DOWN to tune into your desired station.

RADIO STATION PRESETS
1. While in tuner mode, select station you wish to preset.
2. Press the MEMO button (CH 00 will begin to flash in left hand corner of the display).
3. Press the REPEAT/MEM-UP button to select the preset number you wish to set.
4. Press the MEMO button to confirm the setting.

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WEATHER BAND OPERATION

1. Press the system POWER button to "ON" position.
2. Press the "WEATHER " button.
3. Adjust WEATHER TUNING Control knob to locate desired weather forecast in your area.
Note: Weather function can be used in any mode.

CD OPERATION

To Play a Compact Disc
1. Press the POWER button to the "ON" position.
2. Press CD button.
3. Press the OPEN/CLOSE button to open the disc tray.
4. Place the CD into tray with the printed side facing up. Press the OPEN/CLOSE button again to close the disc tray.
5. Disc information will appear on the LCD display. (Disc information includes the total track numbers and playing time)
6. Press the PLAY/PAUSE button to play CD.
7. To stop playing, press the STOP button.
Note: When you can't open the disc tray, you can press again the OPEN/CLOSE button.

SKIP DURING PLAY MODE
1. Press the FWD-SKIP button to skip to the beginning of the next track.
2. Press the REV-SKIP button to skip to beginning of the current track.

SEARCH DURING PLAY MODE
1. Press and hold FWD-SKIP button or REV- SKIP to quickly advance or reverse through the music at high speed.
2. Release the FWD-SKIP button or REV-SKIP button to return to normal playing mode.

REPEAT
1. Press the REPEAT MEM-UP button to enter the _one track repeat_ playing mode. The LCD will display "REPEAT ".

2. Press the REPEAT MEM-UP button again to enter the _all tracks repeat_ playing mode. The LCD display will _flash_ "REPEAT "
3. Press the REPEAT MEM-UP button again to cancel the repeat function.

PAUSE MODE
1. While playing a CD press the PLAY/PAUSE button to pause playing.
2. Press the PLAY/PAUSE button again to continue playing.

INTRO OPERATION
1. While In CD mode press the INTRO button to start the introductory scan mode.
2. Press the INTRO button again to stop the introductory scan mode.

RANDOM OPERATION
1. In CD mode press the RANDOM button to start the random playing mode.
2. Press the RANDOM button again to stop the random playing mode.

MEMORY
1. While in standby mode, press memory button.
2. Select the track's location number using REPEAT MEM-UP button.
   Press the MEMORY button again to confirm.

MUTE
Press the MUTE Button to mute all sound.

SLEEP
Press the SLEEP Button to turn off the music at specific time set.
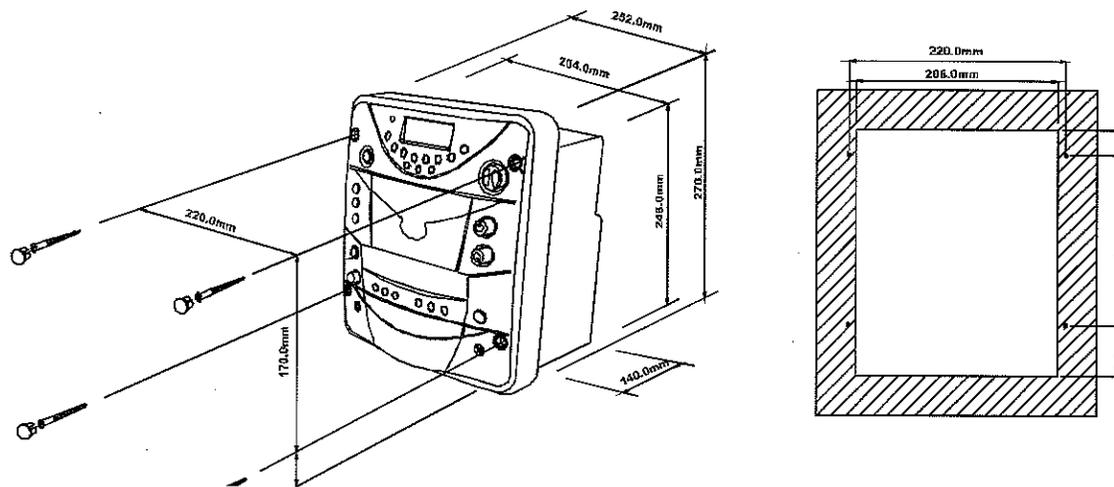
REMAIN
Press the REMAIN Button to review remain time in playing CD.

RESET BUTTON

If the QX-3701 is power on, But doesn't work normally. You can press the reset button.

MOUNTING DIMENSIONS

Pan Philips head screw 35mm x 40 mm x 4 pcs
Remark: Opening dimensions in wall is 206mm(Width) x 248mm(Height)

SPECIFICATIONS:

Power Supply   1)   DC adaptor (Not included)
                                        2)   Input: DC 12V 5A

Main Speaker A   4-ohm speaker, Max.2
Auxiliary Speaker B   4-ohm speaker, Max.2
Auxiliary Speaker C   4-ohm speaker, Max.2

Audio Output Power
Speaker A+B+C   5 W   (Max.)

Dimensions   204mm (L) x 240mm(H) x 140mm (D)

Radio Section
Frequency Ranges   AM 520 – 1710KHz
                                 FM 87.5 – 108 MHz

Weather Section
Frequency Ranges   162.2MHz-162.7MHz

CD Section
CD Type   Front Loading
Frequency Response   20 Hz-20KHz
S/N Rate(A filter)   90dB at 1 KHz 0dB