

CONCERTONE®

OPERATING INSTRUCTIONS



ZX300

CD/MP3/AM/FM/WEATHER BAND
HIGH POWER DIGITAL ENTERTAINMENT SYSTEM

Table of Contents

Brief Introduction of this Unit	Page 02
Front Panel	Page 04
Remote Control	Page 06
Basic Control of all Functions	Page 08
Disc Player	Page 09
AM/FM Reception.	Page 10
Connecting the Unit	Page 12
Specifications	Page 13
Warnings and Precautions	Page 14
Warranty	Page 15
Wall Plates	Page 16

Brief Introduction of this Unit

This unit is microprocessor controlled and features a number of sophisticated functions ensuring superior performance and operation. All the functions will be thoroughly explained in the following sections of this manual to help you have an overall and basic understanding of the different features, functions and operations of this unit.

CD/MP3 Disk Player

This unit is compatible to play CD and MP3 disc with diameter of 5" 12cm.

Built-In AM/FM Tuner

The FM frequency range of this unit is from 87.9MHz to 107.9MHz; (27 preset stations)

The AM frequency range of this unit is from 530 KHz to 1,710 KHz. (9 preset stations)

Built-In Weather Band Tuner

This unit can receive the latest weather forecasting reports that are broadcast on 7 different frequencies. The unit will always auto seek the strongest signal. Each of the 7 different frequencies can be selected manually with the radio preset pushbuttons.

Three Audio Outputs

This unit supplies HI-FI class high power audio outputs to three different rooms through separate digital amplifiers.

The Main Room A

This is Bi-amplified with a separate subwoofer amplifier with 4 separate amplifiers for stereo front and back speakers. Rooms B and C, always play full-range-response from 2 channel audio outputs.

Inputs (Audio)

This unit has a AUDIO-IN to allow the use of Audio sources such as Satellite Radio, iPod, or other Audio sources. These sources must be connected through the two inputs on the back of the unit or through an accessory wall plates.

Separate Speaker On-Off Control for Each Room

Separate front panel and remote control buttons are provided to turn on or off the [A], [B], and [C] rooms separately. The audio in any room can be turned On or Off separately by pushing the [A], [B], or [C] buttons.

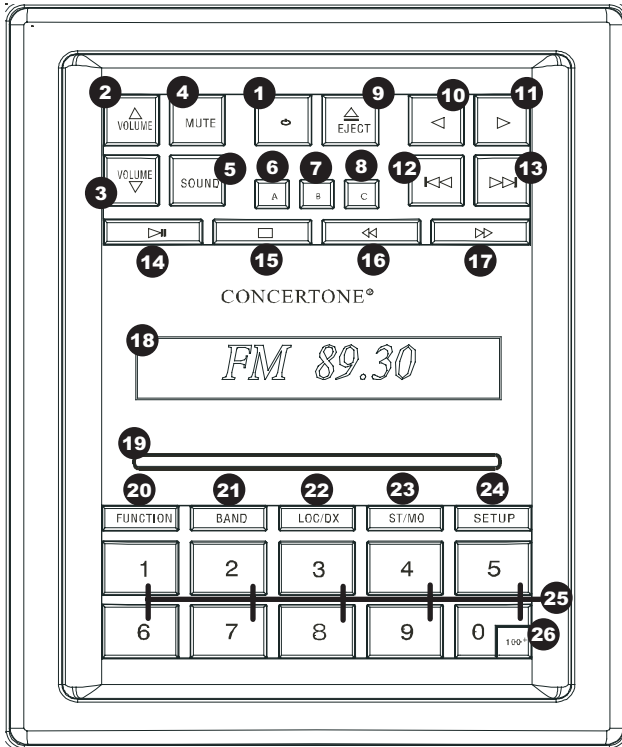
Sound Equalization Control

To control the Bass, Treble, or Balance push the [SOUND] button. You will find a sub-menu to adjust the equalization or balance. To adjust press the [SOUND] button and you will be able to adjust what is shown on the digital display. After VOLUME BASS will appear next, then TREBLE and BALANCE.

Use the [VOLUME ▲] up or [VOLUME ▼] down to raise or lower the BASS and TREBLE or the left to right balance.

Front Panel

- | | | |
|-----|---------------|--|
| 1. | POWER | Press to turn on or off the unit |
| 2. | VOLUME UP ▲ | Press to increase the volume for all 3 rooms |
| 3. | VOLUME DOWN ▼ | Press to decrease the volume for all 3 rooms |
| 4. | MUTE | Press to mute all the audio outputs of all three rooms |
| 5. | SOUND | Press to select BASS, TREBLE and BALANCE |
| 6. | A SPEAKER | Press to turn on or off the audio output to Room A |
| 7. | B SPEAKER | Press to turn on or off the audio output to Room B |
| 8. | C SPEAKER | Press to turn on or off the audio output to Room C |
| 9. | EJECT | Press to eject disc from the unit |
| 10. | Radio ◀ | One minimum step lower frequency |
| 11. | Radio ▶ | One minimum step higher frequency |

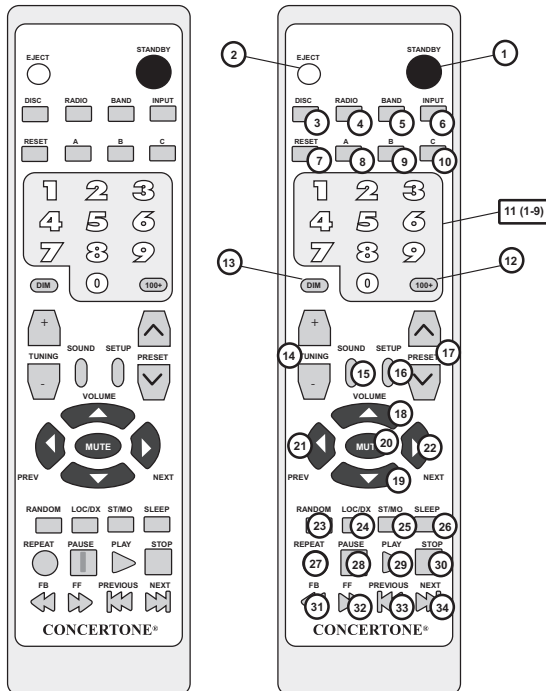


Front Panel Continued

- | | |
|---------------------|---|
| 12. Disc Player ◀◀ | Select previous track of the disc |
| Radio | Select one available station lower |
| 13. Disc Player ▶▶ | Select next track of the disc |
| Radio | Select one available station higher |
| 14. PLAY-PAUSE ▶ | Press to play disc or pause playback of disc |
| 5. STOP ■ | Fast Key to start Disc Player function 1 |
| 16. Disk Player ◀◀ | Press to stop playback of disc. Press Play [▶] to continue the playback |
| Radio | Fast Key to stop Disc Player function |
| 17. Disk Player ▶▶ | Select different levels of Fast Reverse. Press Play [▶] to return to Play |
| Radio | Select previous preset station |
| 18. DIGITAL DISPLAY | Select different levels of Fast Forward. Press Play [▶] to return to Play |
| 19. DISC OPENING | Select next preset station |
| 20. FUNCTION | Show status of the unit for all functions |
| 21. BAND | Slot for loading or removing disc from the unit |
| 22. LOC/DX | Press to switch between main functions of DISC, RADIO and INPUT |
| 23. ST/MO | Press to switch between FM1, FM2, FM3, AM or Weather Band |
| 24. SETUP | Fast Key to get into Radio function |
| 25. 0-9 NUMBERS | Press to select sensitivity of Radio for Local or Distance |
| 26. 100+ | Press to select in FM Radio Stereo or Mono |
| | Press quickly to set AUTOSEEK function of radio |
| | Press and hold to set AUTOSCAN function of radio and to auto set the preset buttons. |
| | Press to choose preset station numbers of Radio, or tracks of Discs |
| | Press to choose numbers larger than 100 for file number of MP3 disc or reset to default after holding for 5 seconds |

Remote Control

- | | |
|-----------------------|--|
| 1. POWER | Press to turn on or off the unit |
| 2. EJECT | Press to eject disc from the unit |
| 3. DISC | Press to select Disc Function |
| 4. RADIO | Press to select Radio function |
| 5. BAND | Press to select FM1, FM2, FM3, AM or Weather Band |
| 6. INPUT | Press to select INPUT function |
| 7. RESET | Press and hold to set all functions back to Factory Default |
| 8. A | Press to turn on or off the audio output to Room A |
| 9. B | Press to turn on or off the audio output to Room B |
| 10. C | Press to turn on or off the audio output to Room C |
| 11. 0 and 1-9 NUMBERS | |
| Radio | Press to recall a preset stations |
| Disk | Press to select one track, file of disc |
| 12. 100+ | Works together with numbers 0-9 to select file of MP3 disc above 100 |
| | Note: On radio front panel and when the in Radio mode, pressing and holding this button will reset the unit back to Factory default. |
| 13. DIM | Press to select 3 levels of brightness of Digital Display |
| 14. TUNING + - | Press to select the next minimum frequency higher or lower |



15. SOUND Press to select sub-menu for sound control of VOLUME, BASS, TREBLE or BAL.
- VOLUME Press for 40 steps of volume control for all rooms
- BASS Press for 14 levels of bass control for all rooms (boost or cut)
- TREBLE Press for 14 levels of treble control for all rooms (boost or cut)
- BALANCE Press for 14 steps of Left to Right level selection
16. SETUP Press quickly to set Autoseek
Press and hold to set AUTOSCAN to auto set preset pushbuttons
17. PRESET $\triangle \nabla$ Press to select the next Higher or Lower preset stations
CLUSTER BUTTONS
18. VOLUME + \blacktriangle Press to increase Audio level in all rooms
19. VOLUME - \blacktriangledown Press to decrease Audio level in all rooms
20. MUTE Press to mute the audio outputs in all the rooms
21. PREVIOUS \blacktriangleleft Press to select the previous or lower preset station
22. NEXT \blacktriangleright Press to select the next or higher preset station
23. RANDOM Push STOP and Push RANDOM then Push PLAY. The unit will take about 10 seconds to shuffle the order of tracks of the disc. The unit will then play the tracks in the new order when it starts to play. Press STOP to release RANDOM shuffle play.
24. LOC/DX Press to select Radio sensitivity for Local or Distance
25. ST/MO Press to select FM Radio mode for Stereo or Mono.
26. SLEEP Press to select the Timing Preset to turn off the unit automatically with options at 10, 20, 30, 40, 50, 60, 70, 80 and 0 minutes
27. REPEAT \bullet Push to select REPEAT ONE, REPEAT ALL or REPEAT OFF
28. PAUSE \parallel Push to pause playback. Press again to continue playback
29. PLAY \blacktriangleright Push to start playback
30. STOP \blacksquare Press to stop playback of a disc
31. FAST REVERSE $\blacktriangleleft\blacktriangleleft$
Disc Press to select different levels of Fast Reverse. Press Play $[\blacktriangleright\parallel]$ to return to Play
Radio Press to select the next lower preset station
32. FAST FORWARD $\blacktriangleright\blacktriangleright$
Disc Press to select different levels of Fast Forward. Press Play $[\blacktriangleright\parallel]$ to return to Play
Radio Press to select the next higher preset station
33. PREVIOUS $\blacktriangleleft\blacktriangleleft$
Disc Press to select the previous track of the disc
Radio Press to select the next minimum frequency lower
34. NEXT $\blacktriangleright\blacktriangleright$
Disc Press to select the next track of the disc
Radio Press to select the next minimum frequency higher

Basic Control of all the Functions

Changing Functions

When the unit is turned on, pressing the [FUNCTION] button on the front panel will switch the unit between the main functions as follows:

DISC⇒RADIO⇒INPUT

DISC for Disc Playing CD or MP3 disc

RADIO for playing AM, FM or Weather radio programs

INPUT for playback of Audio programs from external source

Or, with remote control: (Fast Keys)

Press [DISC] button to switch directly into Disc Player function;

Press [RADIO] button to switch directly into Radio reception function;

Press [INPUT] button to select [INPUT] function.

Additional Fast Keys

[BAND] is the fast key to get into Radio function;

[▶▶||] is the fast key to get into Disc Play function;

The digital readout on the display will show the current function selected

A Fast Way to Play a Disc

No matter which function is playing, when a disc is inserted into the unit, it will switch directly into Disc Play function.

To Eject Disc From Unit

Regardless of which function is playing, pressing the [EJECT] button on the front panel or the remote will eject the current disc with out changing the function.

Disc Player

Load and Eject a Disc

When the unit is in Disc Play mode, if the [EJECT] button on the front panel or the remote control is pushed, the unit will stop playing and eject the disc. The unit will keep the disc in the slot with [EJECT] showing on the Digital Display.

If there is no disc inside the unit, a disc placed in the slot will be taken inside automatically with [LOADING] showing on the Digital Display.

REMARK:

When unit ejects the disc and the disc isn't removed after 1 minute, the unit will automatically reload the disc. This feature protects the disc from being dropped and damaged.

Play/Pause ▶||

Normally, when the unit accepts a disc with no Playback Control, The unit will play the disc from the beginning. When a Playback Control exists, the user needs to push the [▶||] button to start to play the disc. If the user pushes this button again, the unit will pause the disc. To release Pause, push this button again, and play will continue.

Stop ■

When the unit is playing, push the [■] button to stop playing the disc.

Fast Forward ▶▶/Fast Reverse ◀◀

Regardless of whether you use Fast Forward or Fast Reverse, there are 6 different speeds to select from: 1X_2X_4X_8X_16X_32X

To select a normal speed, push the [▶||] button. The unit will immediately play the disc at a normal speed. On the unit the [▶||] button must be pressed a second time to Play from Pause

Previous |◀◀ / Next ▶▶|

Pushing the [|◀◀] button, the unit will play the disc from the beginning of the previous track;

Pushing the [▶▶|] button, the unit will play the disc from the beginning of the next track.

Repeat

The [REPEAT] button on the remote control offers three options:

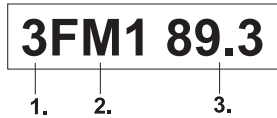
1. Push the button once, and the unit will play the current track continuously.
2. Push the button again, and the unit will play the whole disc from the beginning to the end continuously.
3. Pushing the button for the third time, the unit will play the disc until the end.

How to Use the Cluster Buttons and Enter on the Remote Control.

UP ▲	Push to increase the Volume
DOWN ▼	Push to decrease the Volume
LEFT ◀	Push to select the previous track
RIGHT ▶	Push to Select the next track
ENTER	Push to Mute the audio in all rooms

AM/FM Reception

It is very important to understand what is shown on the digital readout:



1. **Preset Number Indicator**
Shows which preset station that has been selected.
2. **Band Indicator**
Shows which band the radio is tuned to. AM, FM 1, 2, 3 or Weather Band
3. **Frequency Indicator**
Shows which frequency the radio is tuned.

REMARK:

The radio has been divided into four bands; FM1, FM2, FM3 and AM. There are 9 positions available for each band to preset favorite stations. Each of the three FM bands are shown as FM1, FM2 or FM3. However, it doesn't mean the FM has been divided into three equal frequency ranges.

How to select the Radio Reception Mode

Push the [RADIO] or [BAND] button and the unit will switch to Radio immediately. Or, push the [FUNCTION] button until [RADIO] shows on the digital readout.

How to preset the desired station to the selected pushbutton

To preset 89.3 MHz at No.6 of FM3 band

The user needs to switch to FM3 band first and push [UP] or [DOWN] tuning button to tune to 89.3 MHz. Then push and hold the No. [6] button until 6 FM3 89.3 MHz flashes twice on the digital readout. The station has now been preset

How to recall the preset stations

If one station has been preset at No. 5 position at the band of FM2, and this station is desired, then push the [BAND] button until FM2 shows on the digital readout, and then push the No [5] button.

Auto search for an available station

Push [◀◀] or [▶▶] to auto search or the cluster [◀◀] or [▶▶] buttons for an available station at a lower or higher frequency near the current station. When this function is selected, the unit will stay at the selected station until another function is selected.

Auto Seek through all the ranges of the FM or AM bands

Push the [SETUP] button quickly and the unit will keep searching until the next available station from lower to higher frequency is found. When a station is found, the unit will play it for 5 seconds to let the user have the option of keeping it or not. When the unit is auto searching, pushing any button will release the unit from this function.

Auto Scan

Push and Hold [SETUP] button longer than 3 seconds, the unit will select AUTO SCAN function.

The difference between Auto Seek and Auto Scan is that, under Auto Scan, the unit will automatically preset any available station in order from low to high until all the preset positions have been filed, but the Auto Seek function will not store stations.

Note: To prevent the loss of favorite preset stations by pushing [SETUP] in error the Auto Scan function can only be set if the [SETUP] button is held more than 3 seconds

LOCAL/DISTANCE (LOC/DX)

This unit is able to automatically determine whether the signal from a radio station is too strong or not.

When the signal is too strong, the audio output may become distorted. With this unit, the signal is automatically reduced to keep the output clean. LOC will be shown on the digital display.

When the signal is normal, the unit does not need to reduce the signal. LOC will not be shown if set automatically. Local can manually be set with the LOC/DX button

ST/MONO

This function is to allow the user to determine whether to play the FM station in stereo or mono. Normally, in FM, when the program of a selected station is broadcasting in stereo with a weak signal. Setting Mono may help with a clearer signal. Press this button to select between Stereo and Mono.

Weather Band Reception

Press the [BAND] button to choose the Weather Band.

Once the unit is set on the Weather Band function, it will automatically search for an available station among the 7 preset US Weather Bureau frequencies. When the signal is not strong enough to receive the last weather band station, the unit will automatically search for another weather band station again within 15 seconds.

The users can also manually select a weather band station by pressing any of the 1-7 numbers which have already been factory preset to the 7 Weather Band frequencies.

INPUT Function

This unit has one input to allow the users to enjoy Audio entertainment from other sources such as Satellite Radio, iPod, or another external audio source which has been connected to the unit through the inputs on the back of the unit.

To use these Inputs, press the [INPUT] button on the remote control or the [FUNCTION] button on the front panel until INPUT is shown on the Digital Display.

CONNECTING THE UNIT

Very Important Notice:

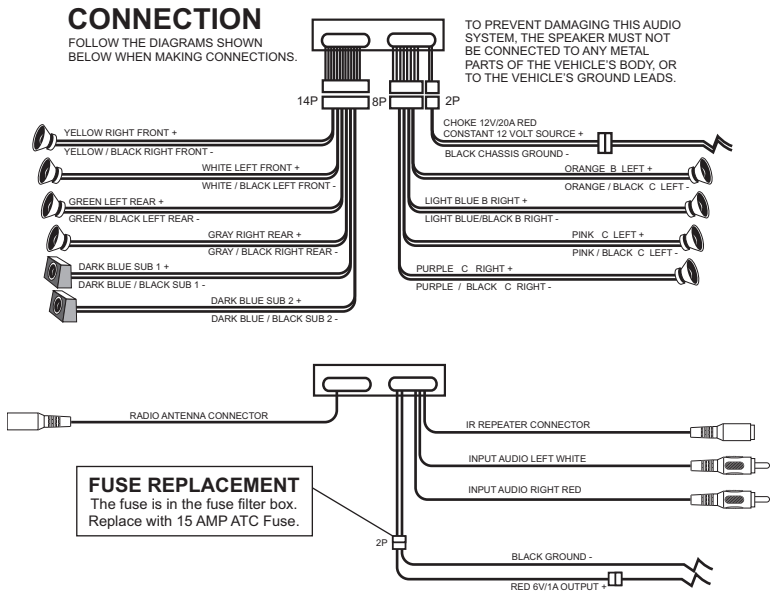
It is strongly suggested that this unit be installed by an authorized, professional technician. Incorrect installation may cause serious damage to this unit, and possible danger to human life and your vehicle.

Each lead and cable is color coded to help in recognition of the functions and difference of each input or output. All the other components must be connected to this unit correctly. Again, if done incorrectly, serious damage may be caused to this unit.

Because this radio uses DIGITAL amplifiers the speaker output leads can NOT be connect to ground or the vehical negitive or ground system. The + and - speakers leads must be connected directly to the speakers

Before turning on the power of this unit, make sure the unit has been connected correctly. SHORT CIRCUIT of this unit is one of the most important issues to be concerned with during installation of the cables, leads, etc.

With [100+] Radio preset button. Push and hold this button to reset the system of the unit back to Factory settings. Or press the [BC] button on the remote to reset the unit to the factory default settings.



Specification

General

Dimension	6 5/8" 170mm (W) X 9 3/8" 240mm (H) X 4 1/2" 125mm (D)
Net Weight	6 lbs 3.35Kg
Voltage	14.4V DC (10.8V – 15.1V allowable)
Maximum Current Consumption	15A

Audio 10 separate Digital Amplifiers

Maximum Power Output	50W x 10 at 4 Ω
Continuous Power Output	25W x 10 at 4 Ω
Load Impedance	4 Ω (4-8 Ω allowable)
Frequency Response	10Hz – 20,000Hz +/-1dB
Audio Signal against Noise Ratio	90dBA
Cross Talk Ratio for Stereo	75dBA
Audio Distortion	60dB

Video

Video Output Level	1V P_P +/-0.2V
Video Output Resolution	More than 500 lines
Tone Control	
Bass	+12dB (100Hz)
Treble	+7dB (10K Hz)
FM Frequency Range	87.9 MHz – 107.9 MHz
AM Frequency Range	530 kHz – 1,710 kHz

This unit has a 6 Volt 1 Amp DC output to power the iPod Wallplate.

WARNING

- To reduce the risk of electrical shock, do not remove cover (or open unit). NO USER-SERVICEABLE parts inside. Refer servicing to QUALIFIED SERVICE PERSONNEL.
- The design and manufacture of this player takes personal safety into consideration. However, any improper operation may result in electrical shock, fire, or other hazard.
Due to the dangerous voltage inside this player, DO NOT open the cabinet by yourself to prevent electrical shock. Please contact professional technician to perform any service needed. Please use the components recommended by CONCERTONE when replacement is necessary.
- Please turn unit off when not in use.
- Use a dry, soft cloth to clean face when unit is turned off.

PRECAUTION

- Moisture may cause lens of loader in this unit to malfunction. To remedy the problem, turn unit on eject disc, and run for 1-2 hours to vaporize moisture inside the unit.
- Do not repeatedly turn unit off and on. After turning unit off, wait 10 seconds before turning on again.
- Do not use broken, scratched, or twisted discs in player. This could result in damage to the unit.
- Use only 5" 12cm discs in this unit.

FCC COMPLIANCE

15.19 Labelling requirements.

(a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification shall be labeled as follows:

- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
- (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:
This device is verified to comply with part 15 of the FCC Rules for use with cable television service.
- (3) All other devices shall bear the following statement in a conspicuous location on the device: 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.

WARRANTY

ONE (1) YEAR LIMITED WARRANTY

CONCERTONE® warrants to the original retail purchaser of this unit that it or any part therein, under normal use and conditions, be proven defective in material or workmanship within 1 year from the date of original purchase, such defect/s will be repaired or replaced at CONCERTONE'S® option without charge for parts and repair labor.

This warranty does not extend to the elimination of externally generated static or noise, to the correction of antenna generated noise or to the cost incurred to correct this noise. The warranty does not cover the removal/reinstallation of this unit or damage to any CD's speakers, accessories, or the vehicle's electrical system.

This warranty does not cover the cabinet appearance or apply to the unit or any part of the unit which, in the opinion of CONCERTONE®, has been damaged through alterations, improper installation, mishandling, misuse, neglect, or accident. THE EXTENT OF CONCERTONE®'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE, AND IN NO EVENT SHALL CONCERTONE®'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE ORIGINAL BUYER FOR THE UNIT.

This warranty extends only to the original purchaser of the unit and is not transferable.

Some states do not allow limitations on how long an implied warranty last, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights.

To obtain repair or replacement within the terms of this warranty, the radio is to be delivered with proof of purchase with a description of the defect(s), freight prepaid, to the original dealer or to:

CONCERTONE®
1803 Century Drive
Goshen, IN 46528
574-534-3167

WALL PLATES

The following accessories are optional equipment for the ZX300.

ZW100 XM WALL PLATE

The ZW100 Wall Plate is an optional plate to be used with the Delphi SKY-Fi or SKY-Fi II XM Radio Satellite Receivers.

To use push and the cradle will tilt forward so that the satellite receiver can be loaded.

Once in the cradle push downward to make a positive connection.

Push the top of the satellite receiver and cradle back into the wall plate until it locks into place. Use the **FUNCTION BUTTON** on the ZX300 and select **INPUT** to listen to XM Radio through your entertainment system



REMOVAL

To remove the SKY-Fi Receiver, or iPod player push at the top center of the unit until the lock releases with a click. Allow the receiver or player to tilt forward. Lift the receiver or player straight out of the wall plate.

ZW150 IPOD WALL PLATE

The ZW150 Wall Plate is an optional plate that can be used with the any "dockable" iPod Audio or Video player.

To use your iPod with the ZW150 wall plate select one of the included carriers to fit your iPod player. This carrier is designed to allow your iPod to fit firmly into the wall plate.

With your iPod mounted in the carrier push the cradle as shown and it will tilt forward so that the iPod player with the carrier can be loaded.

Once in the cradle push downward to make a positive connection.

Push the top of the iPod player and cradle back into the wall plate until it locks into place.

Use the **FUNCTION BUTTON** on the ZX300 and select **INPUT** to listen to music or videos from your iPod player.



NOTES

NOTES



CONCERTONE®

OPERATING INSTRUCTIONS

DVD/CD/MP3/TV/AM/FM/WEATHER BAND
HIGH POWER DIGITAL SURROUND SOUND

CONCERTONE®
1803 Century Drive
Goshen, IN 46528
574-534-3167