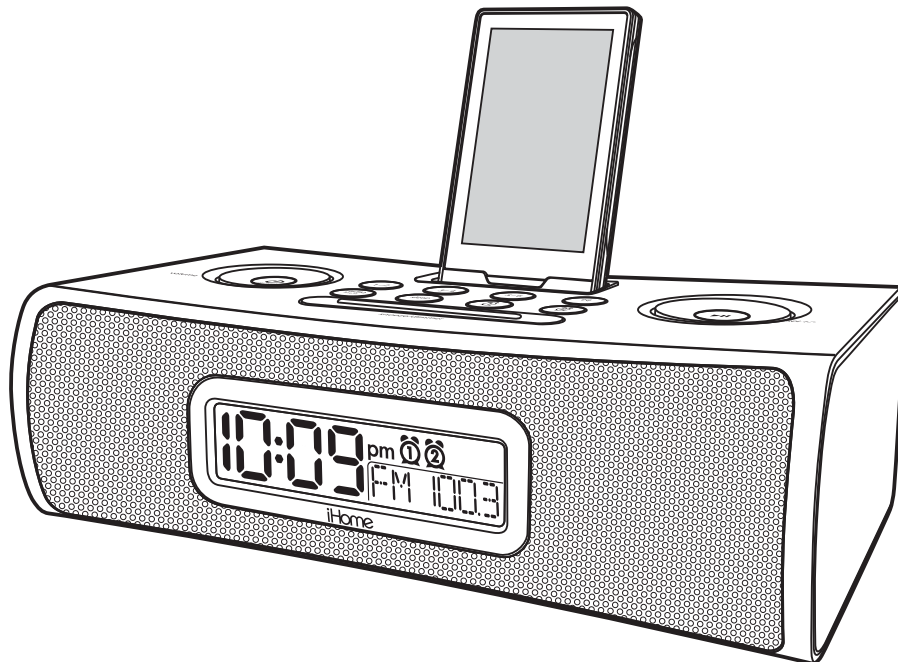


iHome®

Model ZN90

***Dual Alarm
Clock Radio
for your Zune®***



Questions? Visit www.ihomeaudio.com

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A Consumer Guide to Product Safety

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.

This equipment complies with the limits for a Class B digital device as specified in Part 15 of FCC Rules. These limits provide reasonable protection against radio and TV interference in a residential area.

However, your equipment might cause TV or radio interference even when it is operating properly. To eliminate interference you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the radio or TV.
- Use outlets on different electrical circuits for the equipment and the radio or TV.
- Consult your dealer or an experienced radio/television technician if the problem still exists.

Modifying or tampering with your system's internal components can cause a malfunction and might invalidate the system's warranty and void your FCC authorization to operate it.

This Class B digital apparatus complies with Canadian ICES-003.

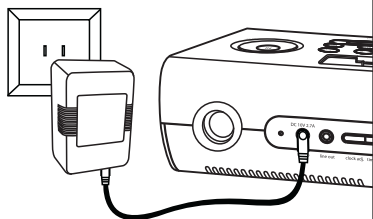
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Maintenance

- Place the unit on a level surface away from sources of direct sunlight or excessive heat.
- Protect your furniture when placing your unit on a natural wood and lacquered finish. A cloth or other protective material should be placed between it and the furniture.
- Clean your unit with a soft cloth moistened only with mild soap and water. Stronger cleaning agents, such as Benzene, thinner or similar materials can damage the surface of the unit.

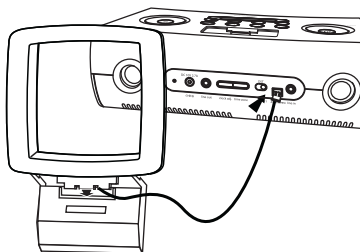
quick start

1:power



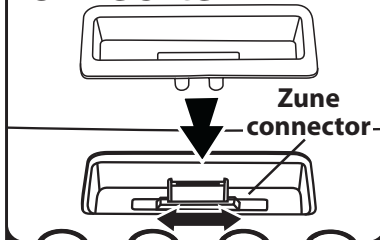
Attach AC adaptor cable to DC jack on back of the ZN90 and plug the other end into a wall socket.

2:antenna



Snap AM antenna into stand, then plug antenna cable into socket on back of ZN90. Move antenna 12" away.

3:inserts



Select the dock insert for your Zune model from the table below and place insert in dock. Slide the Zune connector to left or right to match proper insert if needed. **Never dock a Zune without an insert in place.**

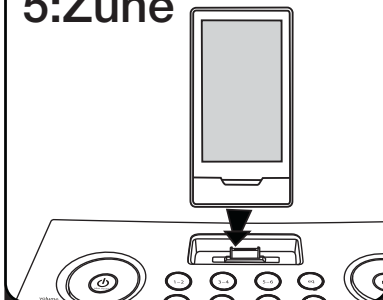
Use this insert	ZuneHD	80GB	4GB/8GB	30GB
For this Zune	Zune HD 16GB & 32GB	Zune 80GB & 120GB	Zune 4GB, 8GB & 16GB	Zune 30GB

4:time



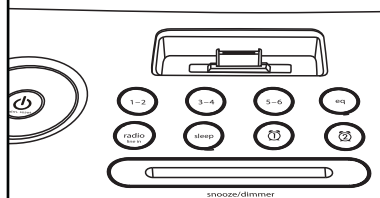
- Move the DST switch on back of unit to +1 or -1 (adds or subtracts an hour)
- Press & hold the Time Zone button on back until the display flashes
- Turn the Set Wheel to select your time zone
- Press the Time Zone button again.

5:Zune



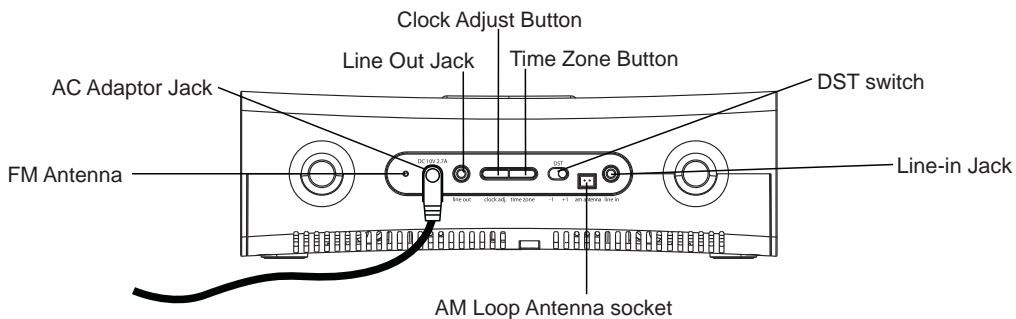
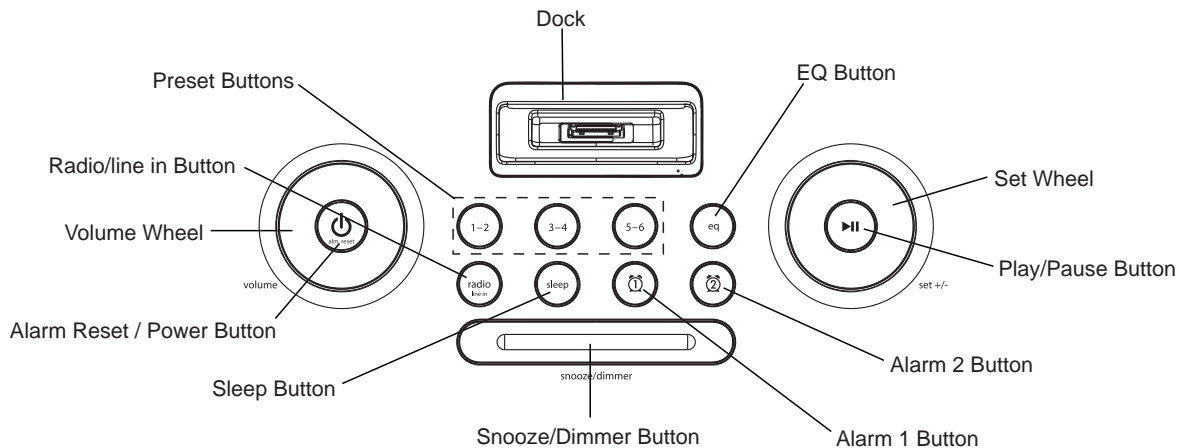
Insert a Zune into the dock with proper insert (Zune must not be in a skin or case). The Zune will charge while docked. Press the **▶||** Button on the ZN90 to play your Zune.

6:radio

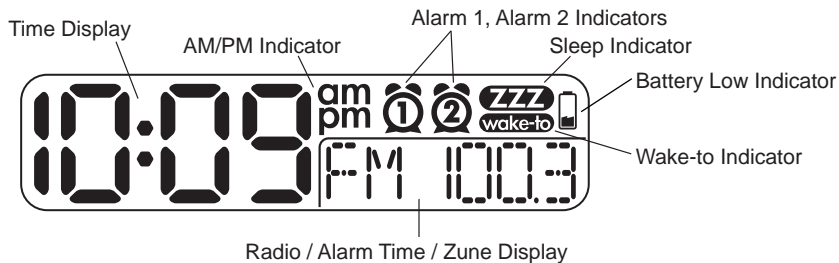


Press the Radio button and press again to select AM/FM band. Turn the Set Wheel to tune in a station. See page 4 for programming presets.

Controls and Indicators



ZN90 Display



Using the ZN90

Connect ZN90 to Power Source

Plug the AC adaptor cable into the AC Adaptor Jack and the other end into a standard 100-240 VAC wall socket. Adaptor must be plugged in to operate. **The ZN90 does not operate on batteries.**

Setting the Clock

a) To adjust the time for Daylight Saving Time, slide the **DST switch** to +1 to advance the time 1 hour.
Slide to -1 to turn the clock back 1 hour.

b) Press and hold the **Time Zone Button** until the display flashes.

c) Turn the Set Wheel to select your time zone.

d) Press the **Time Zone Button** again. The clock will display the current time in your time zone.

To Set Clock Manually

a) Press and hold the **Clock Adjust Button**. The clock display will flash.

b) Turn the **Set Wheel** until the current time is displayed.

c) Press the **Clock Adjust Button** to accept the time. The year display will flash.

d) Turn the **Set Wheel** to adjust the year and press the **Clock Adjust Button**. The date display will flash.

e) Turn the **Set Wheel** to adjust the date and press the **Clock Adjust Button**. Two beeps will indicate clock setting is complete. Use **DST switch** to adjust for Daylight Saving Time.

Using the Alarms

The ZN90 has two independent alarms. Each can be set to wake you to Zune, radio or buzzer at separate times.

Setting the Alarms

a) Press and hold the **⌚** or **📻** **Button** until the alarm time flashes.

b) Turn the **Set Wheel** to set the alarm time.

c) Press the **⌚** or **📻** **Button** again and turn the **Set Wheel** to select having the alarm come on all week (7 days), only weekdays (5 days) or just weekends (2 days).

d) Press the **⌚** or **📻** **Button** again and then turn the **Set Wheel** to select a wake source: Buzzer, Zune (last song selected) or Radio (last selected station).

Note: If wake to source is set to Zune and Zune is not present or is not set to play song mode, the ZN90 defaults to buzzer alarm.

Arming and Disarming Alarm (Turn Alarm Function ON and OFF)

a) Press an **⌚** or **📻** **Button** to preview current alarm time(s). Press again to arm or disarm alarm function. When armed, the related alarm icon appears in the display.

Resetting the Alarm to Come on the Next Day

a) When the alarm is sounding, press the **⏸** **Button** to stop the alarm and reset it to come on the following day.

Snooze

a) Press the **Snooze/Dimmer Button** after the alarm sounds. The alarm will be silenced and come on again after the selected snooze time. Snooze can be pressed several times during the 2 hours alarm cycle.

b) To adjust the snooze time, during normal mode press and hold the **Snooze/Dimmer Button** until the display flashes. Use the Set Wheel to adjust snooze time from 1 to 29 minutes.

Sure Alarm

The ZN90 has a sure alarm feature so the buzzer alarm will still sound in the event of power failure, if backup batteries are installed.

Zune

Playing and charging your Zune

a) Place proper insert for your Zune (see insert table under Quick Start) in Dock (slide the Zune connector to left or right to match the proper insert if needed), then gently dock Zune. When docked, your Zune will charge until fully charged. **Unit will not overcharge Zune.**

b) Press the **▶||** **Button** to play Zune, and again to pause.

c) Turn the **Volume Wheel** to adjust ZN90 volume up or down.

d) Press the **EQ Button** to select Treble, Bass, 3D sound effect or Balance. Turn the Set Wheel to adjust settings. EQ settings for Zune and radio mode are independent.

e) Press the **⏻** **Button** to turn ZN90 off and pause the Zune.

Note: If you dock a Zune with a drained battery, it may take up to few minutes of charging before the Zune will respond.

Using the ZN90

Radio

Setting up Antennas

- Snap AM loop antenna into provided stand, then plug AM antenna cable into AM Loop Antenna socket on back of unit. Move antenna 12" away from unit for best reception.
- Extend FM Antenna (on back of unit) fully for best reception. Do not strip, alter or attach to other antennas.
- Locate ZN90 and all antennas away from AC adaptor in wall socket (at least 3 feet) for best radio reception.

Tuning and Playing the Radio

- Press the **Radio/Line in Button** to select radio play mode. Press as needed to select FM or AM radio band.
- Turn the **Set Wheel** to tune radio to a desired station.
- To program the current station as a preset, press and hold **Preset Button 1-2** until P1 flashes on display; press again for P2 and allow to time-out (beep confirmation). Repeat steps a,b,and c for other preset buttons to preset up to 12 stations (6 AM, 6 FM). To listen to a preset station at any time, simply press the desired preset button once or twice.
- Turn the **Volume Wheel** to adjust ZN90 volume up or down.
- Press the **EQ Button** to select Treble, Bass, 3D sound effect or Balance. Turn the **Set Wheel** to adjust settings. EQ settings for Zune and radio mode are independent.
- Press the **Power Button** to turn ZN90 off.

Using the Line-in and Line-out Jacks

- Use an audio patch cord (**available at www.ihomeaudio.com**) to play nondocking Zune or other audio devices through the ZN90 Line-in Jack (connect one end in the device's line out or headphones jack, the other in the ZN90 line-in jack). Make sure there is no Zune docked in the ZN90 when using the line-in jack.
- To listen to your audio device, press the **Radio/Line in Button** until line-in is displayed, indicating line-in mode. Adjust the output volume on your line-in device.
- Use the Line Out Jack to connect the ZN90 to the line-in jack of other audio devices such as a tape recorder or amplifier. The Volume Wheel of the ZN90 does not control line-out volume (adjust on attached device instead). The Line Out Jack is not for headphones.

Using Sleep Mode

Sleep mode lets you sleep to your Zune or the radio, gradually lowering the volume until the unit shuts off at the selected time.

- Press the **Sleep Button** to select an amount of time before the ZN90 shuts off: 120, 90, 60, 30 or 15 minutes.
- Turn the Volume Wheel to set the sleep volume (this volume setting is separate from your standard volume setting).

Using the Dimmer

- Press the **Snooze/Dimmer Button** during normal operation to adjust brightness of LCD display. There are 8 levels of brightness including OFF.

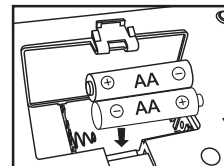
Replacing ZN90 Backup Batteries

Install/Replace Backup Battery

The ZN90 uses a backup battery system to provide continuous alarm operation and clock settings in the event of a power failure. If the Battery Low Icon located on the right of the display is flashing, it is time to replace the backup batteries. Please make sure the AC adaptor is connected, otherwise all settings may be lost during battery replacement.

Open the battery compartment cover located on the bottom of the unit. Insert 2 "AA" batteries as indicated.

We recommend the use of alkaline batteries for longer life.



Battery Warning

For models that require more than one battery

- Do not mix with used or other battery types/brands
- Replace all batteries at the same time
- Do not open batteries
- Do not dispose of in fire
- Do not heat above 75°C (167°F)
- Do not expose contents to water
- Do not charge or recharge
- Do not install backwards

IMPORTANT SAFETY INSTRUCTIONS

When used in the directed manner, this unit has been designed and manufactured to ensure your personal safety. However, improper use can result in potential electrical shock or fire hazards. Please read all safety and operating instructions carefully before installation and use, and keep these instructions handy for future reference. Take special note of all warnings listed in these instructions and on the unit.

1. **Water and Moisture** – The unit should not be used near water. For example: near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
2. **Ventilation** – The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, it should not be situated on a bed, sofa, rug or similar surface that may block ventilation openings. Also, it should not be placed in a built-in installation, such as a bookcase or cabinet, which may impede the flow of air through the ventilation openings.
3. **Heat** – The unit should be situated away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
4. **Power Sources** – The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
5. **Power-Cable Protection** – Power supply cables should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. It is always best to have a clear area from where the cable exits the unit to where it is plugged into an AC socket.
6. **Cleaning** – The unit should be cleaned only as recommended. See the Maintenance section of this manual for cleaning instructions.
7. **Objects and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into any openings or vents located on the product.
8. **Attachments** – Do not use attachments not recommended by the product manufacturer.
9. **Lightning and Power Surge Protection** – Unplug the unit from the wall socket and disconnect the antenna or cable system during a lightning storm or when it is left unattended and unused for long periods of time. This will prevent damage to the product due to lightning and power-line surges.
10. **Overloading** – Do not overload wall sockets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
11. **Damage Requiring Service** – The unit should be serviced by qualified service personnel when:
 - A. the power supply cable or plug has been damaged.
 - B. objects have fallen into or liquid has been spilled into the enclosure.
 - C. the unit has been exposed to rain.
 - D. the unit has been dropped or the enclosure damaged.
 - E. the unit exhibits a marked change in performance or does not operate normally.
12. **Antenna** – Do not connect an external antenna to the unit (other than that provided).
13. **Periods of Nonuse** – If the unit is to be left unused for an extended period of time, such as a month or longer, the power cable should be unplugged from the unit to prevent damage or corrosion.
14. **Servicing** – The user should not attempt to service the unit beyond those methods described in the user's operating instructions. Service methods not covered in the operating instructions should be referred to qualified service personnel.

Questions? Visit www.ihomeaudio.com

Troubleshooting

Symptom	Possible Problem	Solution
ZN90 does not turn on	AC adaptor isn't plugged into a working wall socket or not plugged into the power supply jack on back of the unit	Plug the AC adaptor into a working wall socket and plug the connector into the supply jack on the unit
ZN90 doesn't respond	ZN90 requires a reset	If unit is plugged in and doesn't respond, try resetting the unit by following these steps: a) remove Zune from dock b) unplug unit from power source c) remove back up batteries d) wait 1 hour, then resume use
	Zune is not docked properly	Remove your Zune from the dock and check for obstruction on the connectors in the dock and on your Zune. Then reseat it in the dock.
Battery Low icon always flashing	Batteries are weak	Replace with new batteries
	Batteries were not installed properly	Check to make sure the polarity (+ and – ends) matches the diagram in the battery compartment
Zune does not respond to the unit/Zune is playing but no sound comes out	Zune is not docked properly	Remove your Zune from the dock and check for obstruction on the connectors in the dock and on your Zune. Then reseat it in the dock.
	Your Zune software is too old	Upgrade software on your Zune. For details visit http://www.zune.net
	Zune is locked up	Please make sure your Zune is working properly before docking into the unit. Please refer to your Zune manual for details.
ZN90/Zune performance is erratic	The ZN90 is reacting to external interference	Move unit away from potential sources of external interference such as computers, modems, wireless devices (routers) or fluorescent light.
No sound from ZN90	Volume is set too low on ZN90	Make sure volume is turned up
Zune didn't charge up	Zune is not docked properly	Remove your Zune from the dock and check for obstruction on the connectors in the dock and on your Zune. Then reseat it in the dock.
	Zune is locked up/ frozen	Please make sure your Zune is working properly before docking into the unit. Please refer to your Zune manual for details.
	Zune battery has problem	
No AM band radio sound but others OK	AM loop antenna is not connected to the unit	Plug the AM loop antenna connector to the jack on the back of the unit
Radio is very noisy	AM/FM antennas not located properly	Move the AM loop antenna away from the main unit/Zune and rotate it for best reception. Keep unit and antenna at least 3 feet from AC adaptor.

Troubleshooting

Symptom	Possible Problem	Solution
Sound is distorted	Volume level is set too high	Decrease the volume
	Sound source is distorted	If the Zune original sound source (MP3) is old or of poor quality, distortion and noise are easily noticed with high-power speakers. Try a different audio source such as a music CD. If you are using an external sound source, try reducing the output volume on the device itself. Also try turning bass boost OFF.
	EQ settings are too high. For example, if the treble is too high, the 3D effect may not sound as good	Lower EQ settings.
Unit/adaptor gets warm after extended play at high volume	This is normal	Turn unit off for awhile or lower volume
Can't hear headphones/speakers attached to line out jack	Line out jack is not meant for headphones. Speakers need a power source	The signal from the line out jack needs amplification. Use powered speakers/monitors or other amplified audio device.
Snooze time is too long/short	Custom snooze time not set	Press and hold Snooze button then turn set wheel to adjust
Alarm not working	AM/PM indicator not set up correctly	Adjust alarm time for desired AM or PM.
	Wrong alarm icon set on clock display	Make sure the alarm time you adjusted matches the alarm icon 1 or 2 that is shown on the clock display.
	7-5-2 days setting is not correct	7 days is everyday alarm, 5 days is Mon-Fri, and 2 days is Sat-Sun. See page 3 for setting alarms.
	Calendar is not set correctly for 5/2 days alarm	See page 3 for setting Clock/Calendar Section.

Solucionando problemas

Síntoma	Causa	Solución
La unidad no enciende	El adaptador de corriente AC no está conectado a un tomacorriente que funcione o no está conectado en la parte posterior de la unidad	Conecte el adaptador de corriente a un tomacorriente que funcione y a la parte posterior de la unidad
La unidad no responde	La unidad debe ser reprogramada	Si la unidad está conectada y no responde, pruebe reprogramarla siguiendo estos pasos: a) Quite el Zune de la base b) Desconecte la unidad del tomacorriente c) Quite las baterías auxiliares d) Espere 1 hora y vuelva a probar
El Zune no encastra correctamente	No ha colocado el encastre del Zune, o está utilizando el encastre incorrecto.	Verifique que el encastre sea el apropiado para su Zune
	El Zune no encastra correctamente	Quite el Zune del encastre y retire la posible obstrucción del encastre o de su Zune. Vuelva a colocar el Zune dentro del encastre.
El ícono de batería baja está destellando	Las baterías están gastadas	Reemplace las baterías
	Las baterías no están instaladas correctamente	Verifique que la polaridad de las baterías (- y +) se encuentren de acuerdo al diagrama del compartimiento de baterías.
El Zune no se comunica con la unidad	El Zune no está instalado correctamente	Quite el Zune del encastre y verifique posibles obstrucciones del encastre o de su Zune. Vuelva a colocar el Zune dentro del encastre.
	Su software es obsoleto	Renueve su software. Para mayor información, diríjase a http://www.zune.net
	El Zune está trabado.	Verifique que su Zune funciona correctamente antes de conectarlo a la unidad. Refiérase al manual de su Zune para más detalles.
El funcionamiento del ZN90/Zune es errático.	El ZN90 está reaccionando a interferencias externas.	Aleje la unidad de Fuentes potenciales de interferencia externa como computadoras, modems, ruteadores inalámbricos, luz fluorescente, etc.
No sale sonido de su ZN90	El volumen del ZN90 se encuentra muy bajo	Asegúrese de subir el volumen
El Zune no carga	El Zune no está instalado correctamente	Quite el Zune del encastre y retire la posible obstrucción del encastre o de su Zune. Vuelva a colocar el Zune dentro del encastre.
	El Zune está trabado/no responde	Por favor asegúrese de que su Zune funcione correctamente antes de colocarlo en el encastre. Refiérase al manual de su Zune para mayor información.
	La batería del Zune podría tener algún inconveniente	
La banda de AM no suena pero las demás sí	La antena no está ubicada correctamente	Aleje la antena de la unidad y gírela para mejorar la recepción

Solucionando problemas

Síntoma	Causa	Solución
El sonido sale distorsionado	El volumen se encuentra muy alto	Baje el volumen
	El sonido sale distorsionado de la unidad	Si el sonido original de su Zune era de pobre calidad, las distorsiones y ruidos se harán más notables con los parlantes de alta potencia. Pruebe utilizar otra fuente de audio como un CD. Si tiene una fuente de sonido externa en uso, intente reducir el volumen de salida del aparato. También intente apagar el amplificador de bajos (posición OFF).
	La programación de EQ está demasiado alta. Por ejemplo, si los agudos están en volumen muy alto, el efecto 3D podría no sonar bien.	Baje los niveles del EQ.
La unidad recalienta luego de largos periodos de uso a alto volumen	Esto es normal	Apague la unidad o baje el volumen
No puede escuchar los auriculares/parlantes que están conectados a la ficha de salida "line out"	La línea de salida no está diseñada para auriculares. Los parlantes necesitan una fuente de alimentación	La señal de salida requiere amplificación. Utilice parlantes u otra clase de aparato amplificado.
El tiempo de apagado con "Snooze" (Dormilón), es muy largo/corto.	La duración del programa "Snooze" no ha sido programada.	Mantenga oprimido el botón "Snooze" luego gire la rueda para programar la duración de tiempo deseada.
La alarma no funciona	El indicador de AM/PM no ha sido programado correctamente.	Ajuste la alarma según deseé que suene en hora AM o después del mediodía PM.
	El ícono indicador en el visor es incorrecto.	Verifique que el horario de la alarma y el del ícono correspondiente 1 o 2 en el visor del reloj se encuentren sincronizados.
	La programación 7-5-2 no es correcta.	Utilice 7 para uso de alarma diario por 7 días, 5 para Lunes a Viernes y 2 para Sábado y Domingo. Diríjase a la página 3 para su programación.
	El calendario no se encuentra programado correctamente para 5/2 días.	Refiérase a la página 3 para ver la sección de programación del Reloj/ calendario.

Limited 90-Day Warranty Information

iHome Products, a division of SDI Technologies Inc. (hereafter referred to as SDI Technologies), warrants this product to be free from defects in workmanship and materials, under normal use and conditions, for a period of 90 days from the date of original purchase.

Should this product fail to function in a satisfactory manner, it is best to first return it to the store where it was originally purchased. Should this fail to resolve the matter and service still be required by reason of any defect or malfunction during the warranty period, SDI Technologies will repair or, at its discretion, replace this product without charge (except for a \$10.00 charge for handling, packing, return UPS/postage, and insurance). This decision is subject to verification of the defect or malfunction upon delivery of this product to the Factory Service Center listed below. The product must include proof of purchase, including date of purchase. The fee for service without proof of purchase is \$30.00.

Before returning this product for service, please first replace the batteries (if applicable) with fresh ones, as exhausted or defective batteries are the most common cause of problems encountered.

If service is still required:

1. Remove the batteries (if applicable) and pack the unit in a well padded, heavy corrugated box.
2. Enclose a photocopy of your sales receipt, credit card statement, or other proof of the date of purchase, if within the warranty period.
3. Enclose a check or money order payable to the order of SDI Technologies, for the sum of \$10.00 (\$30.00 without proof of purchase).
4. Send the unit prepaid and insured, to the Factory Service Center listed below.

Consumer Repair Department

SDI Technologies Inc.
1330 Goodyear Dr.
El Paso, TX 79936-6420

Disclaimer of Warranty

NOTE: This warranty is valid only if the product is used for the purpose for which it was designed. It does not cover (i) products which have been damaged by negligence or willful actions, misuse or accident, or which have been modified or repaired by unauthorized persons; (ii) cracked or broken cabinets, or units damaged by excessive heat; (iii) damage to digital media players, CD's or tape cassettes (if applicable); (iv) the cost of shipping this product to the Factory Service Center and its return to the owner.

This warranty is valid only in the United States of America and does not extend to owners of the product other than to the original purchaser. In no event will SDI Technologies or any of its affiliates, contractors, resellers, their officers, directors, shareholders, members or agents be liable to you or any third party for any consequential or incidental damages, any lost profits, actual, exemplary or punitive damages. (Some states do not allow limitations on implied warranties or exclusion of consequential damages, so these restrictions may not apply to you.) This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Your acknowledgment and agreement to fully and completely abide by the above mentioned disclaimer of warranty is contractually binding to you upon your transfer of currency (money order, cashier's check, or credit card) for purchase of your SDI Technologies product.

Questions? Visit www.ihomeaudio.com

Toll Free Customer Service: 1-800-288-2792

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