

Installing and Configuring Entertainment Caps

800 MHz • 900 MHz



PRECOR[®]

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900 MHz • 800 MHz

PRECOR®

Edition Information

Installing and Configuring 800/900 MHz Entertainment
Caps

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Important Safety Instructions

Safety Precautions

Read all instructions in the documentation provided with your exercise equipment before installation of this device including all assembly guides, user guides, and owner's manuals.

Always follow basic safety precautions when using this equipment to reduce the chance of injury, fire, or damage. Other sections in this manual provide more details of safety features. Be sure to read these sections and observe all safety notices. These precautions include the following:

- Read all instructions in this guide before installing and using the equipment and follow any labels on the equipment.
- Make sure all users see a physician for a complete physical examination before they begin any fitness program.
- *Il est conseillé de subir un examen médical complet avant d'entreprendre tout programme d'exercice. Si vous avez des étourdissements ou des faiblesses, arrêtez les exercices immédiatement.*
- Do not allow children, or people unfamiliar with the operation of this equipment, on or near it. Do not leave children unsupervised around the equipment.
- Make sure all users wear proper exercise clothing and shoes for their workouts and avoid loose or dangling clothing. Users should not wear shoes with heels or leather soles, and they should check the soles of their shoes to remove any dirt and embedded stones. They should also tie long hair back.

- Never leave the equipment unattended when it is plugged in. Unplug the equipment from its power source when it is not in use, before cleaning it, and before providing authorized service.

Note: The optional power adapter is considered a power source for self-powered equipment.

- Use the power adapter provided with the equipment. Plug the power adapter into an appropriate, grounded power outlet as marked on the equipment.
- Care should be taken when mounting or dismounting the equipment.
- Read, understand, and test the emergency stop procedures before use.
- Keep the power cord or optional power adapter and plug away from heated surfaces.
- Route power cables so that they are not walked on, pinched, or damaged by items placed upon or against them, including the equipment itself.
- Ensure the equipment has adequate ventilation. Do not place anything on top of or over the equipment. Do not use on a cushioned surface that could block the ventilation opening.
- Assemble and operate the equipment on a solid, level surface.
- Proper Location for Equipment
 - For all equipment other than treadmills: Locate at least 40 inches (1 meter) away from walls or furniture on either side of the equipment, and 40 inches (1 meter) away from objects behind the equipment.
 - For treadmills: Locate at least 40 inches (1 meter) away from walls or furniture on either side of the treadmill, and at least 80 inches (2 meters) away from objects behind the treadmill.

Important: These location standards should also be used when positioning equipment away from sources of heat, such as radiators, heat registers, and stoves. Avoid temperature extremes.

- Keep equipment away from water and moisture. Avoid dropping anything on or spilling anything inside the equipment to prevent electric shock or damage to the electronics.
- When using the treadmill, always attach the safety clip to your clothing before beginning your workout. Failure to use the safety clip may pose a greater risk of injury in the event of a fall.

- Do not operate electrically powered equipment in damp or wet locations.
- Never operate this equipment if it has a damaged cord or plug, if it is not working properly, or if it has been dropped, damaged, or exposed to water. Call for service immediately if any of these conditions exist.
- Maintain the equipment to keep it in good working condition, as described in the *Maintenance* section of the assembly and maintenance guide. Inspect the equipment for incorrect, worn, or loose components, and then correct, replace or tighten prior to use.
- If you plan to move the equipment, obtain help and use proper lifting techniques.
- Equipment Weight Restrictions: Do not use the treadmill if you weigh more than 500 pounds (225 kg). If you weigh more than 350 pounds (160 kg), do not run on the treadmill. For all other fitness equipment, the weight limit is 350 pounds (160 kg).
- Use the equipment only for its intended purpose as described in this manual. Do not use accessory attachments that are not recommended by Precor. Such attachments may cause injuries.
- Do not operate the equipment where aerosol (spray) products are being used or where oxygen is being administered.
- Do not use outdoors.
- Do not attempt to service the equipment yourself, except to follow the maintenance instructions in this manual.
- Never drop or insert objects into any opening. Keep hands away from moving parts.
- Do not set anything on the stationary handrails, handlebars, control console, or covers. Place liquids, magazines, and books in the appropriate receptacles.
- Do not lean on or pull on the console at any time.



CAUTION: DO NOT remove the cover, or you may risk injury due to electric shock. Read the assembly and maintenance guide before operating. There are no user-serviceable parts inside. Contact Customer Support if the equipment needs servicing. For use with single phase AC supply only.

Hazardous Materials and Proper Disposal

The batteries within self-powered equipment contain materials that are considered hazardous to the environment. Federal law requires proper disposal of these batteries.

If you plan to dispose of your equipment, contact Precor Commercial Products Customer Support for information regarding battery removal. Refer to *Obtaining Service*.

Product Recycling and Disposal

This equipment must be recycled or discarded according to applicable local and national regulations.

Product labels, in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE), determine the framework for the return and recycling of used equipment as applicable throughout the European Union. The WEEE label indicates that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

In accordance with the European WEEE Directive, electrical and electronic equipment (EEE) is to be collected separately and to be reused, recycled, or recovered at end of life. Users of EEE with the WEEE label per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to customers for the return, recycling, and recovery of WEEE. Customer participation is important to minimize any potential effects of EEE on the environment and human health due to the potential presence of hazardous substances in EEE. For proper collection and treatment, refer to *Obtaining Service*.

863 MHz Receiver Approvals

European Applications

CE compliance is claimed to the following directives:

- 1999/5/EC R&TTE Directive
- 2006/95/EC LVD Directive
- 2002/95/EC RoHS Directive

900 MHz Receiver Approvals

Regulatory Information

FCC Compliance Statement

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.

The Cardio Theater xTV-9R Receiver has been tested and found to comply with the Class A, pursuant to Part 15 B of CFR 47, FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The xTV-9R Receiver generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the owner's manual instructions, may cause harmful interference to radio communications.

WARNING Per FCC rules, changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Industry Canada

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

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

ATTENTION: Haute Tension
Débranchez avant de réparer

Obtaining Service

Do not attempt to service the equipment except for maintenance tasks. If any items are missing, contact your dealer. For more information regarding customer support numbers or a list of Precor authorized service centers, visit the Precor web site at <http://www.precor.com>.

For the most current manuals, go to <http://www.precor.com/productmanuals>.

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Getting Started

Using the Entertainment Cap, facilities can add entertainment without the high cabling costs usually associated with entertainment systems. The xTV wireless system gives people the choice of listening to music and other audio sources while they exercise. The user simply plugs a stereo headphone into the headphone jack, and selects the desired entertainment.

Receivers are typically powered by the equipment to which they are attached. For example, when connected to a treadmill, the receiver is powered continuously as long as the treadmill is turned on. With self-powered equipment, such as bikes and elliptical crosstrainers, the receiver turns on when a person is using the equipment, or when the equipment is attached to an optional power adapter.

This guide explains how to install and maintain receivers. For proper installation, please read this guide thoroughly and follow the instructions.

Identifying Parts of the Receiver

The following figure provides information about the receiver keys.

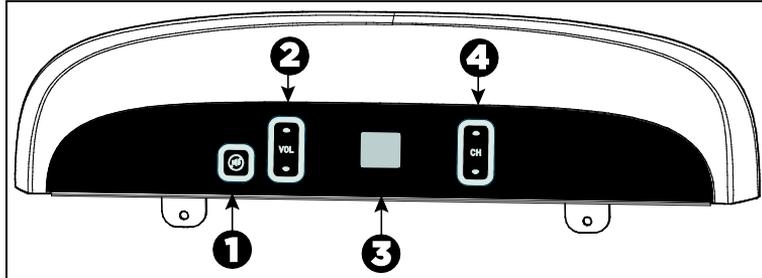


Figure 1: Parts of the receiver

Table 1. Receiver keys

Number	Key Name	Details
1	Mute	Silences sound
2	Volume Up/Down	Adjusts sound level
3	Channel Number Display	Shows current selection
4	Channel Up/Down	Moves through available channels

Installing the Entertainment Cap

Please read all instructions before beginning the installation of the cap.

Installation Requirements

Review the following installation requirements before assembly:

- Transmitters and receivers should be installed within 150 feet (46 meters) of each other and in direct line of sight. For example, if you are within 100 feet and can see the transmitter antenna, the receivers should have good reception.
- With new wireless installations, Precor recommends that you install the receivers on the equipment first, and then install the transmitters. Doing so will allow installers to check the sound quality of the transmitters throughout the room.
- Receiver channels are programmed during installation and will correspond to the TV and audio options available. The receiver acquires the available channels from the installed transmitters and assigns them to channel numbers, starting with the lowest transmitting channel to the highest transmitting channel, regardless of which channels are used.
- To avoid confusion when using the wireless system, you want receivers to logically select TV and audio components based on their placement. For example, on the receiver, channel 1 would select the first TV, channel 2 would select the second TV, and so on. To support this logical usage, transmitters need to be installed in channel order.

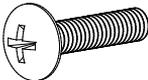
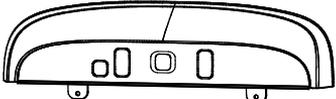
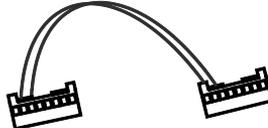
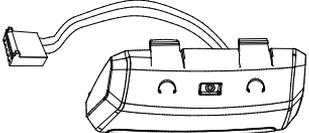
- There is no correlation between channel numbers on transmitters and channel numbers shown on receivers once the receiver has been returned to normal operation.

Installing Entertainment Caps

Prior to assembly, make sure you have the required tools and hardware.

The hardware kit shipped with this equipment contains the fasteners and other hardware components shown in the following table. Before you begin assembly, make sure that your hardware kit is complete. If not, please contact Precor Customer Support.

Table 2. Hardware kit

Fasteners		Quantity
	8 - 32 Phillips-head machine screw	4
	Front cap	1
	Back cap with a Precor label attached	1
	Power cord	1
	Head phone assembly	1

Required Tools

#2 Phillips screwdriver

Suggested Tools

It may be easier to program the cap using an optional power adapter to power the self-powered equipment in your facility. To purchase the optional power adapters, contact your authorized Precor dealer.

Installing the Console

Perform the assembly steps in the order presented.

Note: As you remove the screws, set them aside in a safe place. You will need them later to complete the assembly.

To begin the assembly:

1. Remove the two screws that secure the back cover to the console.

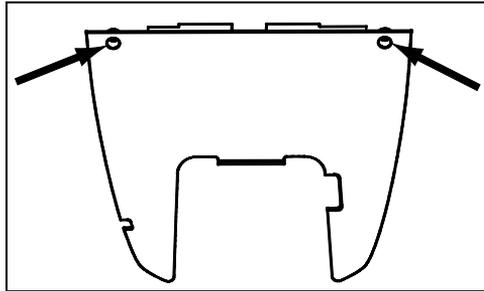


Figure 2: Screw locations for back cover of console

2. Remove the two screws securing the back of the cap assembly.

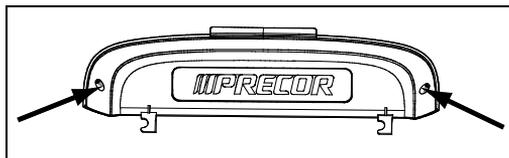


Figure 3: Screw locations on back of top cap assembly

3. Remove the two screws that secure the front controller cover to the console. These screws are accessible from inside the back of the front controller cover.
4. Attach the entertainment front cap using the two screws previously removed.
5. Attach the cables to the new front cap.

Note: The P30 power cable connects at a 90 degree angle. The P20 power cable connects straight into the 8 pin cable.

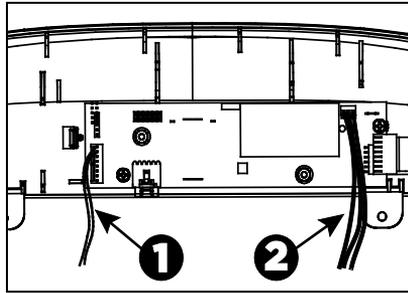


Figure 4: Attaching the wires

Table 3. Rewiring the new Entertainment Cap

Number	Wire type	Details
1	Power cable	2 pin to 8 pin cable
2	Headphone cable	3 pin to 6 pin cable. This cable will be routed down to the headphone jack.

Installing the Headphone Jack

Use the following instructions to replace the blank headphone cap with the functional headphone plug assembly included in your hardware kit

Important: Do not stretch, crimp, or damage the cable. Cables damaged by improper installation will not be covered by the Limited Warranty.

To replace the blank headphone cap:

1. Remove the headphone plug assembly from the packaging.
2. Firmly grasp the blank headphone cap, located under the console and squeeze the sides while you pull down.

Note: You can discard the blank headphone cap.

3. Thread the audio cable from the controller down to the headphone plug assembly. Secure it in the built-in cable clips as shown in the following diagram.

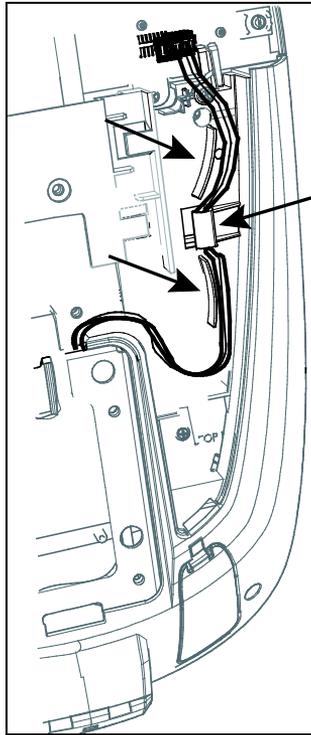


Figure 5: Location of built-in cable clips for headphone cable

4. Slide the audio cable into the new headphone plug assembly.
5. Line up the back tab with the back slot, feed the audio cable inside the console, and then snap the two side tabs into the two side slots.
6. Attach the entertainment back cap using the two screws previously removed.
7. Reattach the back cover to the console.

Note: Be careful not to pinch any wires when reinstalling the cover.

Programming the Receiver

There are multiple ways to program the Entertainment Cap.

Automatic Programming

During automatic programming, the receiver acquires the available channels from the installed transmitters, and assigns them to channel numbers. Follow this process for the addition of each new receiver, or when a receiver is replaced.

After automatic programming, a receiver may be missing some channels or display incorrect programming. The next section describes how to manually program a receiver to add or remove channels as needed.

Before you begin programming, make sure that all transmitters are properly installed and plugged in.

Important: *Transmitters must not share the same channel. The automatic programming feature will not be able to accurately apply the correct channels to the receivers.*

To automatically program the receiver:

1. Power up the receiver. If it is connected to self-powered exercise equipment, you or an assistant will need to use the equipment.
 - Note:** If you own an optional power adapter, attach it to the self powered equipment to make programming easier.
2. Begin the automatic programming process on a receiver by pressing the **Channel ▲** and **Mute** keys simultaneously for 3 seconds.
3. Release the keys when the letters "AP" appear on the display.
 - For 900 MHz: When the numbers from "-1" to "-5" appear on display, the receiver is in programming mode.

Table 4. Programming modes (900 MHz Entertainment Cap)

Display Number	Program Mode Description
-1	xTV program mode (default)
-2	LCS program mode
-4	xTV program mode (Australia)
-5	LCS program mode (Australia)

- For 800 MHz: When the numbers from "-1" to "-3" appear on display, the receiver is in programming mode.

Table 5. Programming modes (800 MHz Entertainment Cap)

Display Number	Program Mode Description
-1	12 frequencies
-2	8 frequencies
-3	10 frequencies

4. If necessary, use the Channel **▲** and **▼** keys to select the appropriate programming mode. Most facilities use xTV program mode -1.
5. Press **Mute** to select the programming mode. The receiver starts the automatic programming sequence, scanning the active transmitter channels and storing them in memory. When the sequence is finished, the receiver returns to normal operation and the first available channel appears on the display.

6. Once automatic programming has completed, confirm that the receiver has picked up all the available channels.
Note: Automatic programming can be affected by a number of factors, including outside interference. This may cause the receiver to miss some channels or program unwanted channels.
7. To check that the receiver can clearly receive the available channels, select and then listen to each channel programmed.
As you change the channels on the receiver, be aware that the receiver orders transmitter channels from the lowest to the highest, then assigns each to a channel, starting with channel 1.
8. If the receiver is missing some channels or the programming is incorrect, manually program the receiver, as explained in the next section.
9. Repeat steps 2 through 7 for each receiver being installed.

Manually Programming a Receiver

The receiver automatically searches the area for available channels during automatic programming. Occasionally, the automatic programming feature does not pick up all of the transmitted channels, or it erroneously programs unwanted channels. To correct this issue, you can manually program the receiver to add or remove channels.

Important: Set the mode by running the automatic programming procedure **before** you run manual programming.

When you enter manual programming, the receiver displays the transmitter channel numbers it has found. For example, an installation with five transmitters, assigned channel numbers 2, 6, 7, 10, and 11 and installed in that order from left to right. The receiver has found these transmitted channels and assigned them to a sequence of channel numbers that it displays as 1 through 5.

Table 6. Example during manual programming

Transmitter Channel	Receiver Shows in Manual Programming	Receiver Assigns to Number that People Use to Select Component
1	Flashing number, not programmed	
2	Solid number	1
3	Flashing number, not programmed	
4	Flashing number, not programmed	
5	Flashing number, not programmed	
6	Solid number	2
7	Solid number	3
8	Flashing number, not programmed	
9	Flashing number	
10	Solid number	4
11	Solid number	5
Numbers continue to 32	Flashing number	

If you have not run Automatic Programming, see the previous section on automatic programming and follow the instructions to complete that process.

To manually program the receiver:

1. Start manual programming by pressing the **Channel ▼** and **Mute** keys simultaneously for 3 seconds.
2. When “-P” appears on the display, release both keys. Channel number 1 appears on the display.
3. Use the Channel **▲** and **▼** keys to scroll through all channels.
4. You can change the status of each channel by pressing **Mute**.

The switched state for a channel becomes one of the following:

- A *flashing* number indicates a channel that is inactive.
 - A *solid* number indicates a channel that is active.
5. Once you have reviewed and programmed the channels, press both **Channel** keys simultaneously for 3 seconds to save your changes and exit the programming mode. Check that the receiver can clearly receive the available channels by selecting, and then listening to each channel programmed.

Troubleshooting

Receivers rarely experience problems once the wireless system is installed. However, you may find the troubleshooting information in this section useful for solving the odd problem.

For more information regarding customer support numbers or a list of Precor authorized service centers, visit the Precor web site at <http://www.precor.com>.

Table 7. How to solve common issues with receivers

Problem	Receiver	What to Do
No Audio	Single receiver	Replace the headphones. If this does not correct the problem, then replace the headphone jack.
No Audio	All receivers	Sound on TV or audio component may be off or muted. Check that volume is increased. Check to see that your transmitter is set to the correct channel. Also, Check to make sure it has power.
Static interference on a channel	Single receiver	Replace headphone jack. If this does not correct the issue, try reprogramming receiver. Change location of transmitter; something might be hampering the sound. If the issue is not resolved, replace the receiver.
Static interference on a channel	All receivers	Sound on TV or audio component may be too high. Check the equipment and lower the volume level if needed. If this does not fix the issue, contact customer support.
Constant sound or tone on all channels	Single receiver	Replace headphone jack. Next, try reprogramming receiver. Check location of receiver; you may find that it is too far from the transmitter. If it is still an issue, replace receiver.

Problem	Receiver	What to Do
No Audio	Single receiver	Replace the headphones. If this does not correct the problem, then replace the headphone jack.
No Audio	All receivers	Sound on TV or audio component may be off or muted. Check that volume is increased. Check to see that your transmitter is set to the correct channel. Also, Check to make sure it has power.
Static interference on a channel	Single receiver	Replace headphone jack. If this does not correct the issue, try reprogramming receiver. Change location of transmitter; something might be hampering the sound. If the issue is not resolved, replace the receiver.
Static interference on a channel	All receivers	Sound on TV or audio component may be too high. Check the equipment and lower the volume level if needed. If this does not fix the issue, contact customer support.
Constant sound or tone on all channels	Single receiver	Replace headphone jack. Next, try reprogramming receiver. Check location of receiver; you may find that it is too far from the transmitter. If it is still an issue, replace receiver.
Constant sound or tone on all channels	All receivers	Most likely broadband interference. Contact customer support.
Receiver channels do not match the order of the TV and audio components. For example, Channel 1 selects the second TV channel and the Channel 2 selects the first TV channel.	All receivers	Transmitters were not installed in channel order. Receivers automatically assign transmitter channels to receiver channels, from the lowest to the highest. To correct this issue, move or reprogram the transmitters so the channel numbers are in a logical sequence. You will also need to reprogram the receivers.

Replacing the Headphone Cover

If necessary, this section also explains how to replace the headphone jack when a receiver no longer provides good sound quality.

Important: Do not stretch, crimp, or damage the cable. Cables damaged by improper installation will not be covered by the Limited Warranty.

To replace the blank headphone jack:

1. Remove the headphone plug assembly from the packaging.
2. Firmly grasp the blank headphone jack, located under the console. With one hand squeeze the sides near the top while pulling down with your thumb using your other hand.

Note: The blank headphone jack has two tabs on each side and one tab in the back. These tabs help to secure the headphone jack to the console. You can discard the blank headphone jack.

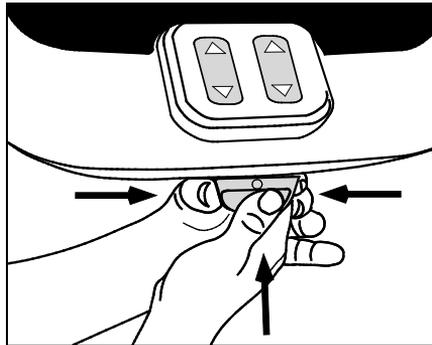


Figure 6: Removing the blank headphone jack

3. Route the headphone plug assembly cable so that the extra cable ends up at the headphone plug assembly.
Important: For consoles with moving machine controls, carefully route the cables away from moving parts so they do not become trapped in the controls.
4. Slide the stereo plug on the audio cable into the new headphone plug assembly.
5. Line up the back tab with the back slot, feed the audio cable inside the console, and then snap the two side tabs into the two side slots.

Maintenance

In general, receivers require little maintenance beyond regular cleaning and periodic checks of their installations and connectors.

Cleaning the Receivers

Each week, clean the receivers with a mild soap and water solution. Lightly dampen a soft cloth with the solution and wipe the receiver.

Do not use too much solution on the cloth or spray cleaning solution directly on receivers. Doing so could cause moisture to enter through the connector and damage the receiver.

Important: *Do not use any acidic cleaners. Doing so will weaken the paint or powder coatings and void the Precor Limited Warranty. Never pour water or spray liquids directly on the console.*

- *It is important to avoid using any corrosive chemicals on the cap.*
- *Always dampen the cloth and then clean the receiver. Be sure to spray the cleaning liquid onto the cloth, not the receiver, so that drips do not seep into the receiver.*
- *Apply the cleaner with a soft, lint-free cloth. Avoid using gritty cloths.*

Limited Warranty for Precor Entertainment Products

PLEASE READ THESE WARRANTY TERMS AND CONDITIONS CAREFULLY BEFORE USING YOUR PRECOR PRODUCT. BY USING THE EQUIPMENT, YOU ARE CONSENTING TO BE BOUND BY THE FOLLOWING WARRANTY TERMS AND CONDITIONS.

Limited Warranty.

Precor Incorporated ("Precor") warrants all new Precor products to be free from defects in materials and manufacture for the warranty periods set forth below. The warranty periods commence on the invoice date of the original purchase. This warranty applies only against defects discovered within the warranty period and extends only to the original purchaser of the product. Parts repaired or replaced under the terms of this warranty will be warranted for the remainder of the original warranty period only. To claim under this warranty, the buyer must notify Precor or your authorized Precor dealer within 30 days after the date of discovery of any nonconformity and make the affected product available for inspection by Precor or its service representative. Precor product deemed defective by a Precor representative, will be issued a return authorization number. **Precor will not accept returns without a return authorization number.** Precor reserves the right, at their option, to repair or replace the product after verification of defect. Product that fails after the warranty period expires will be repaired or replaced at the current part and labor pricing after authorization from the customer. Repairs are warranted for 90 days.

Precor’s obligations under this warranty are limited as set forth below.

Warranty Periods and Coverage.

Cardio Theater Transmitters <i>xTV-T Wireless or Wired Floor Models</i> <i>xTVFM system transmitter</i>	3 Years	Parts & Labor
Cardio Theater Non-integrated Receivers <i>xTV-R Wireless or Wired Upper Models</i> <i>xTVFM system receiver</i>	1 Year	Parts & Labor
Cardio Theater 15" Non-integrated PVS and Controller	1 Year	Parts & Labor
Precor Experience Series Integrated 12" and 15" Screens	2 Years	Parts & Labor
Precor Experience Series Integrated Receiver	2 Years	Parts & Labor
Headphone Jack, USB Port, and iPod® Connector	90 Days	Parts Only

Conditions and Restrictions.

This warranty is valid only in accordance with the conditions set forth below:

The warranty applies to the Precor product only while

- It remains in the possession of the original purchaser and proof of purchase is demonstrated,
- It has not been subjected to accident, misuse, abuse, improper service, or mechanical, electrical or non-Precor modification.
- Claims are made within the warranty period.

This warranty does not cover damage or product failure caused by electrical wiring not in compliance with electrical codes or Precor owner’s manual specifications, or failure to provide reasonable and necessary maintenance as outlined in the owner’s manual.

Precor does not pay for labor outside of the United States and Canada.

Warranties outside the United States and Canada may vary. Please contact your local Dealer for details.

This Limited Warranty shall not apply to:

1. Software version upgrades.
2. Normal wear and tear, consumables and cosmetic items, including, but not limited to the following: labels.
3. Repairs performed on Precor products missing a serial number or with a serial tag that has been altered or defaced.
4. Service calls to correct installation of the product or instruct owners on how to use the product.
5. Pickup and delivery involved with repairs.
6. Any labor costs incurred beyond the applicable labor warranty period.
7. The user is cautioned that changes or modifications not expressly approved by the manufacturer of the product could void the user's authority to operate the product.



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