

Operating and Maintaining the P10 Console



Operating and Maintaining the P10 Console



Edition Information

OPERATING AND MAINTAINING THE P10 CONSOLE

P/N 302291-102 rev B

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Important Safety Instructions

Important: *Save these instructions for future reference.*

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

Note: This product is intended for commercial use.

The display apparatus (hereinafter referred to as the *console*) is intended to be shipped with new Precor exercise equipment (hereinafter referred to as the *base unit*). It is not packaged for individual sale.

WARNING To prevent injury, the console must be attached securely to the base unit following all assembly and installation instructions shipped with the base unit. The console is intended to be connected to AC mains power through the furnished power supply ONLY. It should be powered on only when installed as described in the assembly and installation instructions shipped with the base unit. The console is intended for use only with Precor fitness equipment, not as a standalone device.

Safety Precautions

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, particularly if they have high blood pressure, high cholesterol or heart disease; have a family history of any of the preceding conditions; are over the age of 45; smoke; are obese; have not exercised regularly in the past year; or are taking any medication.

French equivalent of the above notice, for Canadian markets: *Il est conseillé aux utilisateurs de subir un examen médical complet avant d'entreprendre tout programme d'exercice, en particulier s'ils souffrent d'hypertension artérielle, ou de cardiopathie ou ont un taux de cholestérol élevé, s'ils ont des antécédents familiaux des précédentes maladies, s'ils ont plus de 45 ans, s'ils fument, s'ils sont obèses, s'ils n'ont pas fait d'exercices réguliers au cours de l'année précédente ou s'ils prennent des médicaments. 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.
- For Treadmills: Do not use typing or web surfing features while walking at speeds that exceed a **slow and relaxed leisurely pace**. Always stabilize yourself by holding a stationary handle bar while using typing or web surfing features.
- For AMT and EFX: Always stabilize yourself by holding a stationary handle bar while using typing or web surfing features.
- 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.

- **SPACING**—The below minimum spacing recommendations are based on a combination of the ASTM (U.S.) voluntary standards and EN (European) regulations as of October 1, 2012, for access, passage around, and emergency dismount:
 - **Treadmills**—a minimum of 0.5 m (19.7 in.) on each side of the treadmill and 2 m (78 in.) behind the machine.
 - **Cardio equipment other than treadmills**—a minimum of 0.5 m (19.7 in.) on at least one side, and 0.5 m (19.7 in.) behind or in front the machine.

Careful consideration should be given to the requirements of the Americans with Disabilities Act (ADA), US Code 28 CFR (see Section 305). ASTM

standards are voluntary and may not reflect current industry standards. The actual area for access, passage around, and emergency dismount is the responsibility of the facility. The facility should consider the total space requirements for training on each unit, voluntary and industry standards, and any local, state, and federal regulations. Standards and regulations are subject to change at any time.

Important: *These spacing recommendations should 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.
- Keep in mind that heart rate monitors are not medical devices. Various factors, including the user's movement, may affect the accuracy of the heart rate readings. The heart rate monitors are intended only as exercise aids in determining heart rate trends in general.
- 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 owner's manual. 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 400 pounds (180 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 the owner's 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 power 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*.

Regulatory Notices for Cardiovascular Exercise Equipment

The regulatory information in this section applies to the exercise equipment and its control console.

Safety Approvals for Cardiovascular Equipment

Precor equipment has been tested and found to comply with the following applicable safety standards.

Cardiovascular Type Equipment:

- CAN/CSA, IEC, EN 60335-1 (Household and similar electrical appliances - Safety)
- EN 957 (Stationary training equipment, class S/B compliant equipment)

Radio Frequency Interference (RFI)

This Precor exercise equipment conforms to the following national standards defining acceptable limits for radio frequency interference (RFI).

Federal Communications Commission, Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the owner's manual instructions, can cause harmful interference to radio communications.

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.

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 device complies with RSS-210:2007 of the Spectrum Management & Telecommunications Radio Standards Specification. 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 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

European Applications

CE compliance is claimed to the following directives:

- 2004/108/EC EMC Directive
- 2006/95/EC LVD Directive
- 2002/95/EC RoHS Directive

Directive compliance has been verified to the following standards:

- EN 55022
- EN 55024
- EN 60335-1
- EN 60065 (P80 and PVS)

Electrical Recommendations: 120 V and 240 V Treadmills

Note: This is a recommendation only. NEC (National Electric Code) guidelines or local region electric codes must be followed.

You should have received a power cable that meets your local electrical code requirements along with the equipment. Precor treadmills must be connected to a 20 amp individual branch circuit that can be shared only with one PVS. If you need additional help with the power connections contact your Precor authorized dealer.

Important: *An individual branch circuit provides a hot conductor and neutral conductor to a receptacle. The conductors must not be looped, "daisy-chained", or connected to any other conductors. The circuit must be grounded according to NEC guidelines or local region electric codes.*

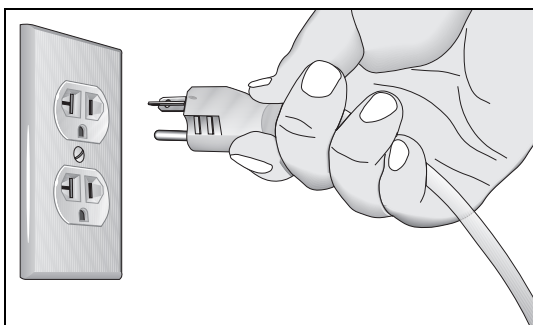


Figure 1: North American 120-volt, 20-amp power receptacle

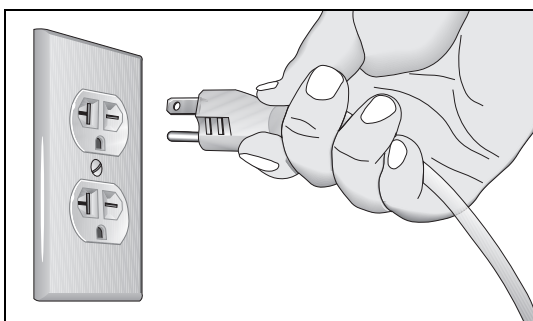


Figure 2: North American 240-volt, 20-amp power receptacle

Electrical Recommendations: All Equipment Excluding Treadmills

Note: This is a recommendation only. NEC (National Electric Code) guidelines or local region electric codes must be followed.

For equipment fitted with a P80 console or Personal Viewing System (PVS) screen a separate power connection is required. For a 20 amp branch circuit up to 10 screens can be connected. If the branch circuit has any other devices plugged into the circuit, then the number of screens must be reduced by the wattage of the other devices.

Note: The typical splitter power cords that have IEC-320 C13 and C14 plugs have a recommended maximum capacity of five screens.

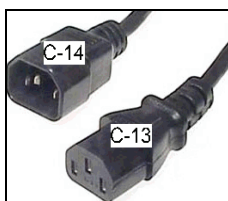


Figure 3: IEC-320 C13 and C14 plugs

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>.

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Getting Started

The P10 console offers administrators the ability to set default values that meet their specific needs. These values include items like language, units of measure, and setting a maximum allowed workout time for each piece of equipment.

Activating the Console for Self-Powered Equipment

Precor equipment is either self-powered or externally powered using an optional power adapter. Self-powered equipment requires the user exercise to initialize the console. This section provides more detail about powering equipment.

Activating the Console for Self-Powered Equipment

On self-powered equipment, when a user starts exercising, the console initializes and displays the Welcome banner. A minimum rate of motion must be maintained for the Welcome banner to appear. The words PEDAL FASTER (or the equivalent message depending on the equipment type) appear in the display when the rate of motion drops below the minimum requirements.

The equipment saves its battery charge by moving into a shutdown mode. If the user does not maintain the minimum rate of motion, a 30-second shutdown process begins.

In this mode, the console displays a countdown indicator and ignores all keypresses. If no movement is detected or the rate of motion remains below the minimum, the indicator changes as the countdown continues.

Note: The user can resume exercising before the countdown period elapses and the workout will continue from the point at which it was paused.

Optional Use of the Power Adapter

An optional AC power adapter provides sustained power to the equipment. This adapter allows you to change settings without having to pedal the equipment. To purchase the power adapter, contact your dealer.

If you purchase the optional power adapter, you must also purchase the internal cable kit. The kit supplies the cable, bracket, and fasteners that connect the power adapter to the lower electronics board.

CAUTION: The internal cable kit must be installed by authorized service personnel. Do not attempt installation on your own as you could void the Precor Limited Warranty. For more information, refer to *Obtaining Service*.

Important: *If this equipment includes a P80 console, the optional power adapter and the internal cable kit must still be installed to provide continuous power to the base unit and support its internal battery.*

Once the internal cable kit is installed, you can plug the optional power adapter into the equipment. Plug the opposite end into the appropriate power source for your equipment (120 V or 240 V). Review the safety instructions found at the beginning of this manual before using the power adapter.

CAUTION: When the optional power adapter is in use, make sure that the power supply cord does not create a safety hazard. Keep it out of the way of traffic and moving parts. If the power supply cord or power conversion module is damaged, it must be replaced.

The control console functions differently when the power adapter is connected. Because the power adapter provides a constant source of power, a user can pause for brief periods without initiating shutdown procedures. When the pause time limit expires and the user has not resumed exercising, the console returns to the Welcome screen. The default pause time is 30 seconds for all fitness equipment. Refer to the manual for your control console for instructions on setting or changing the pause time limit.

Identifying Parts of the Console

The following figure provides information about the console keys. The number and actions of the console keys may differ slightly depending on the type of equipment.

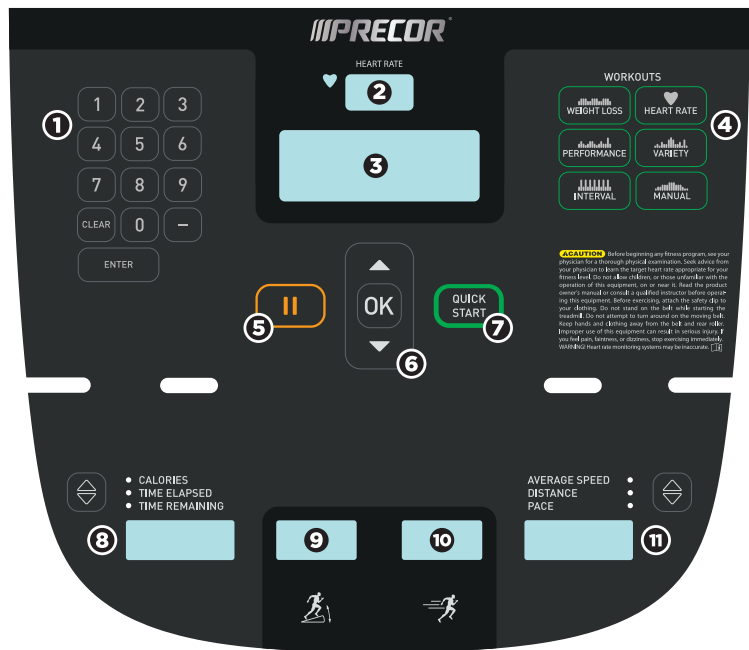


Figure 4: P10 console keys

Table 1. Parts of the console

Number	Name	Details
1	Number pad	Enter numerical information such as age, weight, and passwords. You can also enter and change channels using the number pad. <ul style="list-style-type: none">Press Clear to delete the numbers you entered.Press Enter to confirm your selection.
2	Heart Rate	Displays your current heart rate.
3	Lower Display	Displays graphical information about your workout progress.

Number	Name	Details
4	Workouts	Examples of workouts: <ul style="list-style-type: none"> • Manual • Heart Rate • Interval • Weight Loss • Variety • Performance
5	Pause	Use to pause or end a workout session.
6	OK and Up/Down arrows	Use to navigate options and settings.
7	Quick Start	Press Quick Start to begin exercising.
8	<ul style="list-style-type: none"> • Calories • Time Elapsed • Time Remaining • Watts (bike) • Time (bike) 	Use the ▲ or ▼ arrows to change what information is displayed.
9	Incline or Crossramp	Available on treadmill and EFX (dual).
10	Speed or Resistance	Available on AMT, bike, treadmill, EFX (single), and EFX (dual).
11	<ul style="list-style-type: none"> • Average Speed (treadmill) • Speed (bike) • Pace (treadmill) • Distance (all equipment) • RPM (bike) • Cals/Min (AMT) • Strides/Min (AMT, EFX) • Total Strides (EFX) 	Use the ▲ or ▼ arrows to change what information is displayed.

Setting Up the Console

Use the System mode to configure settings in ways that benefit your users and your facility. The System menu is visible only to administrators and registered service technicians. Changes made to these settings are saved to the fitness equipment.

The System Settings categories are:

- Club Parameters
- Informational Display

System Settings

System Setting features remain hidden from club patrons and can only be accessed using special keypresses. To view the System Settings, the equipment must be in the Welcome state. The equipment is in the Welcome state when it is on, but not actually in use. This means that there is no exercise session, data entry, or diagnostic operation in progress.

When the equipment is in the Welcome state:

- **SELECT A WORKOUT OR PRESS QUICKSTART TO BEGIN** scrolls in the text display.
- On the treadmill, the belt is not moving and the lift motor is off.

Note: On self-powered equipment, the console initializes when you begin working out. You must maintain a minimum rate of motion for the Welcome banner to appear.

The changes made in System Setting modes become the default settings when the display resets to the Welcome banner.

CAUTION: If you change the Unit of Measure display on the treadmill, check the speed setting to verify that it is correct.

To view the Club Settings:

- 1. At the Welcome banner, press **Pause**.



- 2. Press the following number keys in sequence to enter the password:

5 6 5 1 5 6 5

- 3. Press **OK**.
The Set Club Parameters banner appears.

Table 2. Navigational keys for the system setting modes

Key	Function
▲ or ▼	Navigates the settings menu
OK	Selects a menu setting and confirms the changes made to the value setting
CLEAR	Returns to the previous menu level without saving changes
PAUSE	Exits the System Settings mode and returns to the Welcome banner

Club Parameters

Use the following information to customize the equipment for your setting.

Note: When you make changes to the club parameters, the new settings replace the factory default settings.

Safety Code (Treadmill only)

Value: Enabled or Disabled

(Default: Disabled)

When the equipment is shipped from the factory, the safety code protection feature is disabled. If you enable the safety code, your users will need to enter a four digit number to begin their exercise session and start the running belt. The code is **1 2 3 4**.

Select Language (All Equipment)

Value: English, Deutsch, Espanol, Francais, Netherlands, Portugues, Rucckijj, and Italiano

(Default: English)

Select your preferred language for the console display.

Note: Programming prompts are not affected by language selection. The prompts in this section continue to appear in English.

Select Units (All Equipment)

Value: U.S. or Metric

(Default: U.S.)

The equipment can display measurements in either Metric or U.S. Standard.

Important: *If you change the Unit of Measure on a treadmill, be sure to check the speed setting to verify that it is correct.*

Set Max Workout Time (All Equipment)

Value Range: 1 to 240 minutes

(Default: 60 minutes)

You can set a maximum workout time per session. Choose a time limit between 1 and 240 minutes, or select **No Limit** if you do not want to set a time limit. For example, if you set the time limit to 20 minutes, users can only enter a workout time between 1 and 20 minutes.

Set Max Pause Time (All Equipment)

Value Range: 1 to 120 seconds

(Default: 120 seconds)

This setting limits how long equipment remains in a paused banner during a workout before it resets.

Note: The optional power adapter must be connected on self-powered equipment to establish a definitive pause time limit. If the optional power adapter is not attached and the rate of motion drops below the minimum requirements, the equipment begins its shutdown, effectively eliminating pause mode.

Set Cool Down Time (All Equipment)

Value Range: 0 to 5 minutes

(Default: 5 minutes)

Select the maximum amount of time the equipment remains in the cool down mode. The cool down time is the period of time following the completion of a program when the user exercises at a reduced work rate.

Set Speed Limit (Treadmill only)

Value Range: Full speed range of equipment

(Default: Maximum speed)

This setting limits how fast the running belt moves and, consequently, the number of speed settings that are available to the user. Use it to set the maximum speed that a user can enter when using the equipment.

The speed is displayed in miles per hour (mph) or kilometers per hour (kph) depending upon the units of measure (U.S. Standard or Metric) selected earlier. The values range from 0.5 to 12 mph (0.8 to 20 kph).

Set Incline Limit (Treadmill only)

Value Range: Full grade range of equipment

(Default: Maximum grade possible)

Select the maximum percent incline that a user can enter when using the equipment. Values range from 0.0 to 15.0.

Hidden Programs (Treadmill only)

Value: Show Programs or Hide Programs

(Default: Hide Programs)

When this option is set to **Show Programs**, the user can select between the Track workout and the Fitness Test. Otherwise, only the Track workout is available.

Remote Speed Control (Treadmill only)

Value: Enable or Disable

(Default: Disable)

When this feature is enabled, the CSAFE SetSpeed command and the CSAFE SetGrade command are available if:

- The treadmill is in the CSAFE "InUse" state.
- The speed or grade values sent are within range.

Autostop Configure (Treadmill only)

Value: On or Off

(Default: On)

Set to **On** to bring the treadmill to a gradual stop when no user is on the equipment. This can occur if a user steps off the equipment during a workout and does not turn it off.

Set Crossramp Auto-level (EFX only)

Value Range: 0 to 20

(Default: 10)

Use this setting to choose a specific ramp incline so that the EFX automatically returns to that incline at the end of a workout session.

Set Resistance Range (Bike only)

Value Range: High, Medium, or Low

(Default: High)

You can set a low, medium, or high base resistance on the recumbent or upright bikes. There are 25 levels of resistance within each base setting, but the base setting affects the overall resistance range. The following ranges are available:

- High: Provides full resistance range.
- Medium: Provides approximately two thirds of the resistance that is available within the high group setting.
- Low: Provides approximately one third of the resistance that is available within the high group setting.

Viewing the Informational Displays

Information Display settings are values that provide you with information about the equipment. Types of information contained in this setting group include, an event (error) log, software and equipment serial numbers, and usage information.

To view the System settings:

1. At the Welcome banner, press **Pause**.



2. Press the following number keys in sequence to enter the password:
6 5
3. Press **OK**.

Use the following table to set up customized Informational Display values.

Table 3. Informational Displays values

Product	Value	Information provided
All	ODOMETER	<p>Correlates to the type of equipment and the standard of units, U.S. or Metric, selected in the programs.</p> <ul style="list-style-type: none">• Treadmill and AMT: Displays the number of cumulative miles or kilometers logged to date. In addition, the AMT displays the number of vertical strides.• EFX: Displays the number of total strides logged to date.• Bike: Displays the number of total revolutions logged to date.
AMT	BELT USAGE	<ul style="list-style-type: none">• Belt Stride Count: Tracks the number of strides on equipment.• Stride Count Reset: Reset increases by one each time a reset is performed.• Odometer at Last Reset: Records the odometer reading at the time the belt was changed. The equipment odometer continues to count forward after the belt change.
All	HOUR METER	<p>Displays the number of hours that the equipment has been in use.</p> <p>Note: The equipment tracks the elapsed minutes, but the value that appears is truncated to the nearest full hour.</p>
Treadmill	BELT RATING	<p>Displays the condition of the treadmill's running belt as a number between 0 and 10. If the rating is 0 or 1, you should replace the belt.</p>
All	UPPER BOOT SW PART NUMBER	<p>Upper board application software part number and version.</p>

Product	Value	Information provided
All	UPPER BASE SW PART NUMBER	Displays the upper base application software version.
All	LOWER BASE SW PART NUMBER	Displays the lower application software version.
All	METRICS BOARD	Displays the software number on the Metrics Board.
All	SERIAL NUMBER	Displays the model and type of equipment.
All	USAGE LOG	<ul style="list-style-type: none"> Displays the number of times each workout has been used and displays the associated cumulative minutes. Displays the user preferences in workout selection.
All	ERROR LOG	Displays any event codes that may have been detected by the software. For more information, refer to <i>Event Log</i> .

Event (Error) Log

This log holds a maximum of 30 events. After the log reaches 30 events, older events are erased to make room for newer ones. To clear an event from the log, press and hold the **Quick Start** key while the event is displayed.

The event log (sometimes referred to as an error log) contains the following information:

- Event number
- Odometer value when the event occurred
- Hour meter value at the time the event occurred
- Current drawn by the motor and available voltage when the event occurred (treadmill only)

The following table contains a list of events detectable by the software.

Table 4. Event log numbers and descriptions

Event Number	Description of Event
00	Upper PCA memory location event
02	RAM location event
03	EEPROM checksum event
05	Depressed key at power up
09	Lower PCA memory test event
10	Line Frequency out of acceptable range
11	Watchdog (Upper PCA) low voltage power
12	Watchdog (Lower PCA) low voltage power
13	Fan at incorrect speed (version 1 treadmills)
14	Fan fail (Lower PCA)
15	AC input voltage too high
16	AC input voltage too low
17	Dynamic break resistor thermal trip (treadmill only)
18	Dynamic break resistor thermal switch open (treadmill only)
19	Power factor corrector malfunction (treadmill only)
20	Motor will not start, or no motor movement was detected (treadmills only); too many maximum power requests in one second (other equipment)
21	Too many maximum consecutive power requests
22	No motor pulses at start up
23	Motor pulses missing after start up
24	Reduce speed requested, speed is not reducing
25	Lower drive hardware error (treadmill only)
26	Motor pulse width incorrect
27	Too much drive motor current
28	Temperature too high
29	Excessive AC input current
30	Communications event lower board to upper board
31	Incorrect Communications event upper board to lower board

Event Number	Description of Event
32	Communication event upper board to lower board
33	Incorrect communications event lower board to upper board
35	Excessive AC input current (instantaneous; treadmill only)
36	Excessive AC input current (sustained / circuit breaker trip protection; treadmill only)
37	E-STOP error (treadmill only)
40	Lift motion not detected
42	Lift position value out of range
43	Zero switch not found
44	Un-commanded lift motion
45	Lift going in the wrong direction
50	Too much brake (magnet) current
53	Cannot read target, cannot find home switch
54	Target pulses lost during operation
55	Brake home switch activated unexpectedly
62	Vertical sensor failure (AMT only)
70	Belt replacement, lower control board not read (AMT only)
71	Belt replacement, new lower control board (AMT only)
72	Belt replacement, lower control board version unknown (AMT only)
73	Belt replacement, lower control board record bad (AMT only)
74	Belt replacement, lower control board refurbished console (AMT only)
75	Belt replacement, refurbished lower control board (AMT only)
76	Belt replacement, console stride count is less than lower control board (AMT only)
77	Belt replacement, console stride count is greater than lower control board (AMT only)
78	Belt replacement warning (AMT only)
79	Belt replacement required (AMT only)
80	Phase A or B missing (incline control; treadmill only)

Event Number	Description of Event
81	Phase C missing (incline control; treadmill only)
82	Phase A or B missing (speed control; treadmill only)
83	Phase C missing (speed control; treadmill only)
85	No dynamic break resistor detected, or dynamic break resistor is detected as an open circuit, at startup time (treadmill only)
86	Old console detected on new equipment (treadmill only)
87	New console installed on older equipment (treadmill only)
88	Motor temperature too high (treadmill only)

User ID Entry with CSAFE Equipment

This equipment is fully compatible with CSAFE protocols. When the equipment is connected to a CSAFE master device, the user is prompted to press ENTER and begin an identification process. The user ID is displayed as five zeros and indicates the starting point. The following table describes key functions while in CSAFE mode.

Table 5. CSAFE access keys

Keys	Function
Number Keypad	Use the number keys to enter a user ID. Once you have entered the user ID number, press OK to submit the user ID.
CLEAR	Erases individual numbers in the user ID from right to left.
OK	Submits the user ID. Note: User ID entry is bypassed when the user enters five zeros. No workout statistics are recorded.
PAUSE	Resets to the Welcome banner.

A message appears on the display and indicates when the user ID is accepted by the CSAFE master device. Once program selection is complete, the user can begin exercising.

Introducing Users to the P10 Console

CAUTION: Before beginning any fitness program, see your physician for a thorough physical examination. Seek advice from your physician to learn the target heart rate appropriate for your fitness level.

The P10 console offers an easy-to-follow display and multiple workouts to help people meet their exercise needs.

Important: Please review the following sections in this guide with your users before allowing them to use the fitness equipment:

- *Important Safety Instructions*
- *Getting Started*
- *Using the Safety Clip (for treadmill only)*

Using the Touch Heart Rate Feature

Note: Touch heart rate performance may vary based on your physiology, fitness level, age, and other factors. You may experience an erratic readout if your hands are dry, dirty, or oily, or if the skin on your palms is especially thick. Wearing hand lotion can also cause an erratic readout. In addition, make sure that the sensors are clean to ensure proper contact can be maintained.

To use the touch heart rate feature, place the palm of your hands directly on the metal heart rate sensors on the equipment's handlebars. To ensure an accurate heart rate readout, make sure you follow these tips:

- Both hands must grip the sensors for your heart rate to register.
- It takes a number of consecutive heartbeats (15-20 seconds) for your heart rate to register.

- When gripping the sensors, do not grip tightly. Keep a loose, cupping hold. Holding the grips tightly can affect the reading.
- As you work out, your perspiration will help transmit your heart rate signal. If you have difficulty using the handheld grips to determine your heart rate, try the sensors again later in the workout to see if you can obtain a heart rate signal.
- If the touch heart rate feature does not work for you, Precor recommends that you use a chest transmitter strap.

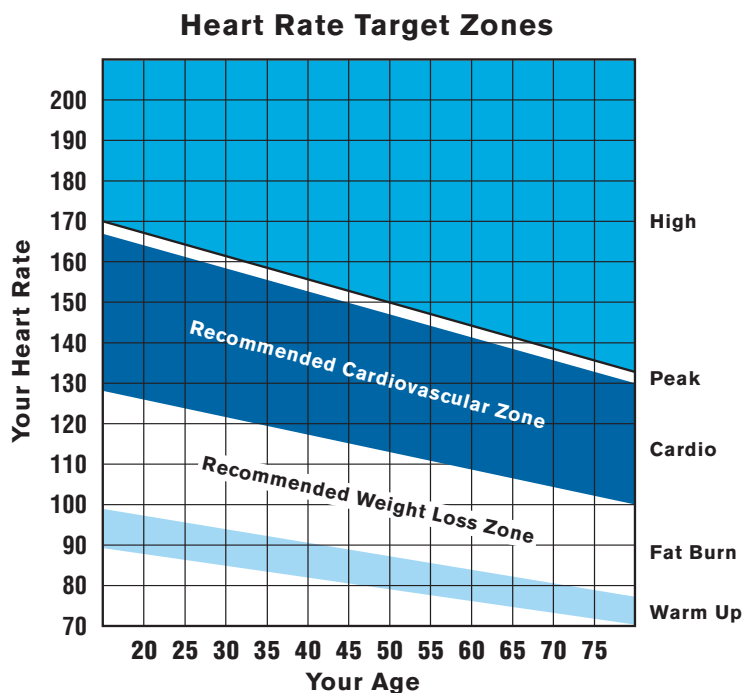


Figure 5: Heart rate target zones

CAUTION: Your heart rate should never exceed 85% of your maximum aerobic heart rate. You can calculate your maximum heart rate using the following formula:

$$\text{Maximum heart rate} = 207 - (\text{your age} \times 0.67)$$

Using a Chest Strap Transmitter

WARNING Signals used by the chest strap transmitter (or heart rate strap) may interfere with pacemakers or other implanted devices. Consult your physician and the manufacturers of your chest strap transmitter and implanted device before using a chest strap transmitter.

Wearing a chest strap transmitter during your workout provides steady heart rate information. For the equipment to detect your heart rate, you must grip the touch heart rate sensors or wear a chest strap transmitter while exercising. In the presence of both touch and wireless data, the touch data takes precedence and will display.

Note: To receive an accurate reading, the strap needs to be in direct contact with the skin on the lower sternum (just below the bust line for women).

To use a chest strap transmitter:

1. Carefully dampen the back of the strap with tap water.
Important: Do not use deionized water. It does not have the proper minerals and salts to conduct electrical impulses.
2. Adjust the strap and fasten it around your chest. The strap should feel snug, not restrictive.
3. Make sure that the chest strap is right-side-up, lies horizontally across, and is centered in the middle of your chest.
4. Test the chest strap placement by checking the heart rate function on the equipment. If a heart rate is registering, your chest strap placement is correct. If the equipment does not register a heart rate, readjust the strap and recheck the heart rate function.

Using the Treadmill Safety Clip

The treadmill is equipped with three different stop functions, which behave as follows:

<i>If the user ...</i>	<i>Then the treadmill belt ...</i>	<i>And the console ...</i>
Pulls on the lanyard attached to the safety clip and trips the restart switch	Slows to a stop	Shows the words PUSH THE RESET SWITCH. On some console models, an arrow points toward the Restart switch.
1		
Presses down on the red STOP button	Slows to a stop	Shows that the exercise workout is paused.
2		
Steps off of the running belt for a preset amount of time	Slows to a stop	Shows that the exercise workout is paused.

The restart switch and the red **STOP** button are located just below the console, as shown in the following figure. When the switch is tripped, the button pops up. The treadmill does not operate until the button is returned to its normal position.



Figure 6: Restart switch

Instruct users on how important it is to use the safety clip while exercising on the treadmill, and demonstrate how they should attach it to their clothing near the waistline.

If the restart switch trips during exercise, perform the following steps:

1. Reattach the safety clip if necessary.
2. Press the restart switch down until it clicks, returning it to its normal position.

Note: If the restart switch trips, all information about the current workout is deleted.

3. Start the workout from the beginning, reducing the time as needed to account for the amount of exercise that has been completed.

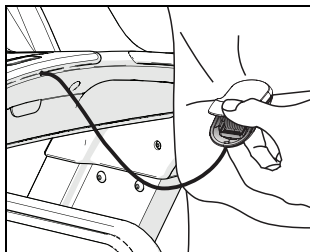


Figure 7: Attaching the safety clip

Tip: The small, flexible tab underneath the restart switch is designed for storage of the safety clip. When the treadmill is not in use, attach the safety clip to the tab as shown in the following figure.

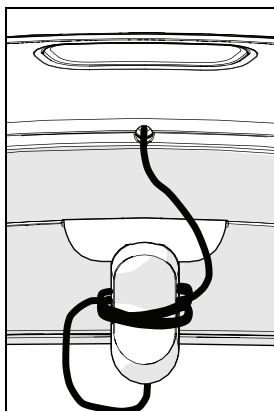


Figure 8: Safety clip storage

Treadmill Auto Stop™ (Automatic Stop) Function

Important: *The default setting for this feature is ON. An administrator can turn off this feature in the System Settings; however, Precor recommends it remain ON.*

The Auto Stop™ (Automatic Stop) feature is designed to bring the treadmill to a gradual stop when it is not in use. This might occur if a user steps off the treadmill before the end of a workout and leaves the treadmill running.

60 seconds after a treadmill workout starts, or 30 seconds after it resumes, the equipment begins Auto Stop monitoring. If a user is detected, then no message appears, and the selected workout continues.

If no user is detected after an additional 30 seconds, the console displays the message **NO USER DETECTED, STOPPING IN 10 SECONDS** as notification of the pending stop. During the display of this message, a ten second countdown begins. If a user does not override the countdown, the belt comes to a gradual stop after the countdown is complete.

Note: Users weighing more than 50 pounds (22.7 kg) are detected within the speed and position limits of the feature. Users weighing less than 50 pounds (22.7 kg) may not be detected depending on their speed and location. Always be aware of the console's instructions and follow them for proper operation.

Starting a Workout

CAUTION: If you are using a treadmill, be sure to attach the security clip to your clothing before starting your workout.

The equipment is in the Welcome state when the words **SELECT A WORKOUT OR PRESS QUICKSTART TO BEGIN** scroll across the scrolling text display.

If the equipment is connected to CSAFE, the words **SELECT A WORKOUT, PRESS QUICKSTART, OR ENTER TO BEGIN** scroll across the text display.

If anything else appears on the screen, press **Pause** to display the Welcome banner.

From this screen, there are two ways to begin a workout:

- Press **Quick Start™**.
This action launches the Manual program. Calculations, such as calories used, are based on a 150-lb (68 kg), 35-year old person.
 - Press one of the preset workout buttons.
- When a user reaches the club time limit during a workout, the words **number MINUTE CLUB TIME LIMIT REACHED, WORKOUT ENDING** (where *number* is the number of minutes set as the club time limit) appear in the text display.

Starting a Preset Programmed Workout

Preset workouts are a great way to tailor your workouts to your fitness goals, stay challenged, and add variety to your sessions. These workouts are arranged in the following categories:

- Manual
- Heart Rate
- Interval
- Weight Loss
- Variety
- Performance

Pausing and Resuming an Exercise Session

When you interrupt a workout, the equipment responds in one of two ways, depending on how it is powered.

Paused (Externally Powered Equipment)

When the session is paused, the belt speed is slowly reduced to zero, or the resistance is slowly reduced to the minimum. The lift motor is turned off leaving the incline or crossramp at its current position. Data entry is canceled.

When you press **Pause** on all non-treadmill equipment, it displays the summary screen with your workout metrics. After displaying the summary, it returns to the Welcome screen.

Pending Shutdown (Self-Powered Equipment)

On self-powered machines, the paused state is equivalent to the pending shutdown state. When you stop working out, the equipment begins a 30 second countdown.

The accumulated metrics (e.g., time, strides, distance, calories) hold their current values and do not change. Data entry may not be started.

To restart the program, begin working out again. The resistance is reset to what it was when the program was paused.

If the equipment remains inactive for more than 30 seconds, the power is lost and the equipment bypasses the workout summary screen.

Ending a Session

Cooling down is an important aspect of your workout because it helps reduce muscle stiffness and soreness by transporting excess lactic acid out of the working muscles. In addition, a three to five minute cool down allows your heart rate to return to its normal, resting state.

At the end of your workout, a Summary screen displays your average heart rate during your workout and your accumulated workout metrics.

If you performed a fitness test exercise program, an initial message presents a fitness score.

The next two messages display the user's average and maximum heart rate during the session. These messages are only displayed if heart rate data was acquired during the session, i.e., a valid heart rate number was displayed at least once during the session.

The summary state times out in two minutes, causing a return to the Welcome banner. If the machine is in a CSAFE Finished state then the summary state must last for at least the CSAFE timeout value, typically 10 seconds or less. If it has not lasted that long, then before returning to the Welcome banner, the word **RESETTING** appears until the CSAFE finished state ends.

Three different types of metrics are captured during a workout.

Controlled Metrics can be set and changed. They include:

- Resistance Level (AMT, EFX, bike)
- Speed (treadmill)
- Incline (treadmill)
- Crossramp (EFX)

Current Performance Metrics describe the intensity of a workout in real time. They include:

- Pace (treadmill)
- Heart Rate
- Speed (bike)
- Revolutions/Minute (bike)
- Strides/Minute (AMT, EFX)
- Watts (bike)

Accumulated Metrics describe the overall performance throughout the entire exercise session. They include:

- Time Elapsed
- Time Remaining
- Distance
- Calories
- Time (bike)
- Total Strides (EFX)
- Average Speed (treadmill)

Workouts

Your fitness equipment includes a wide selection of workouts that are carefully designed to make sure you get the best results out of every workout.

The human body is extremely efficient. If it makes the same motion regularly over many days or weeks, it learns to make that motion with less and less effort. This process, called *muscle adaptation*, has one drawback—the longer you stick to the same workout, the less good that workout does you.

To prevent muscle adaptation from setting in as you work out, try different kinds of workouts on different days. By keeping your muscles guessing, you'll keep your energy use up, promoting faster weight loss and better conditioning.

The workouts in the following table are available on units equipped with the P10 console.

Table 6. P10 Console Workouts

Console Key	Workout	AMT	EFX	Treadmill	Bike
Weight Loss	Weight Loss	✓	✓	✓	✓
Heart Rate	Basic Heart Rate Control (HRC)	✓	✓	✓	✓
Performance	Track			✓	
	Hill Climb	✓			✓
	Cross Training Workouts		✓		
	Fitness Test			✓	
Variety	Random	✓		✓	✓
	Gluteal Workouts		✓		
Interval	1-1 and 1-2 Interval	✓	✓		✓
	Custom Interval			✓	
Manual	Manual	✓	✓	✓	✓

The following listing describes these workouts.

Weight Loss Key

Pressing the **Weight Loss** key scrolls through the workouts that are designed to encourage weight loss and aerobic conditioning.

The American College of Sports Medicine® recommends that adults get at least 30–60 minutes of moderately intense exercise five days a week. The Weight Loss workout provides a structured and time-based aerobic challenge designed to help you reverse or prevent weight gain.

The total time for this workout is fixed at 28 minutes. It consists of alternating four-minute work and rest intervals. During the work intervals, you can change the resistance at any time.

Training tip: For best results, wear a heart rate monitor and maintain a target heart rate that is between 50% and 70% of your maximum heart rate.

Heart Rate Key

Pressing the Heart Rate key selects the Basic Heart Rate Controlled (HRC) workout, which monitors your heart rate to guide you through a moderate intensity program that is optimal for aerobic conditioning. To use this workout, you must either wear a chest strap sensor (recommended) or maintain continuous contact with the handheld sensor grips.

Note: You cannot switch to this workout during an exercise session.

During the workout, your target heart rate is based on the following calculation:

Target heart rate = 70% × (207 - (0.67 × your age))

The equipment adjusts intensity settings to maintain your target heart rate while you work out.

When a heart rate signal is not received, the metrics displays remain blank. If this happens, recheck your hand grip on the handheld sensors or the placement of your chest strap.

Training tip: This program offers a coaching benefit for new and returning users who are learning how to maintain a moderate, steady exertion level throughout their workouts.

Performance Key

Press the **Performance** key repeatedly to select a workout that conditions and tests the body's muscular and aerobic performance.

Note: On treadmills, a fitness test option is also available. A technician at the fitness facility must activate the fitness test before you can use it. After the test has been activated, you can scroll between the Track and Fitness Test workouts by pressing the **Performance** key repeatedly.

Track

This workout is largely identical to the Manual workout; there are no preset intensity levels, so you can adjust the levels as you work out. However, in place of the normal intensity graph, a diagram depicting an oval running track appears on the lower display. A blinking LED shows where you are in your current lap, and each lap is equal to 440 yards (400 meters).

Training tip: Challenge yourself by adjusting your training parameters regularly for the best results.

Hill Climb

This workout simulates a walk, run, or ride up a long grade and down a shorter one. It engages a wide range of muscle groups by adjusting the resistance, CrossRamp, or both to deliver a hill climbing experience. You can change these settings at any time, and your changes will affect the intensity of the rest of your workout.

Note: On the EFX, the console prompts you to pedal backward during part of the workout.

Training tip: Incorporating hill climb workouts into your regular cardio schedule will keep your workouts varied and help build lower body muscle strength.

Cross Training Workouts

This workout delivers true training variety and muscular engagement by adjusting the resistance and incline continuously to simulate the dynamic terrain of an outdoor run.

The CrossRamp setting is preprogrammed in each of these workouts, but you can change it or the resistance setting at any time. Your changes are applied to the levels for the remainder of your workout, and the columns in the workout profile show the changed CrossRamp levels.

Training tip: Advanced users can engage their core stabilizer muscles more thoroughly by taking their hands off the handlebars throughout the workout.

Fitness Test

Fitness tests evaluate your body's overall fitness in terms of its aerobic capacity. During the warmup stage of the test, you can adjust your starting resistance settings. After that, you complete a series of stages of increasing intensity. Based on your progress through these stages and the changes in your heart rate as you complete them, the equipment calculates your fitness score at the end of the test.

On treadmills, the Gerkin Fitness Test compares your fitness level with the official fitness standards of the International Association of Firefighters (IAFF). This test is written using the Gerkin Protocol, which is the basis for the official IAFF fitness test and part of their Wellness and Fitness Initiative.

The treadmill ends the test prematurely if any of the following things happen:

- The equipment cannot detect your heartbeat.
- Your heart rate exceeds 85% of your maximum safe rate for 15 seconds or more.
- Your heart rate changes too quickly.
- You press the STOP switch or pull on the safety clip lanyard.

Important: *For best results, sit and rest for at least five minutes before you take the test.*

Training tip: To see how your performance level increases with exercise over time, try taking the fitness test as soon as possible after you begin your exercise program. Then, as you keep working out, take the fitness test from time to time and watch your results improve.

The following tables show how to interpret your test score.

Table 7. Fitness score categories for women

Age in Years	Low Fitness	Medium Fitness	High Fitness
20-39	28 or below	28-34	34 or above
40-49	26 or below	26-32	32 or above
50-59	24 or below	24-29	29 or above
60 or over	22 or below	22-27	27 or above

Table 8. Fitness score categories for men

Age in Years	Low Fitness	Medium Fitness	High Fitness
20-39	35 or below	35-43	43 or above
40-49	32 or below	32-40	40 or above
50-59	29 or below	29-37	37 or above
60 or over	24 or below	24-32	32 or above

Variety Key

Pressing the **Variety** key selects a random or specialized workout designed for the fitness equipment you are using.

Random

Variety (for both the muscles and the mind) is the key to continued success for every exercise goal. The Random workout delivers a different training profile every time you select it. The one-minute segments that appear in the workout profile maintain a set incline that you can override.

Training tip: Your body will respond differently to each workout. The best way to evaluate and quantify the effectiveness of each exercise session is to wear a chest strap or use the touch-sensitive grips during your training sessions.

Gluteal Workouts

Strong glutes contribute to better posture, improved spine and hip stabilization, and reduction in lower body injuries at the hips, knees and ankles. These workouts target your thighs and glutes as they gradually increase in intensity, but you can modify the intensity levels at any time.

On EFX models, the workout prompts you to reverse direction after 25%, 50%, and 75% of the total time. At these points, you will see text messages on the console that remind you to change direction.

Training tip: To increase your core activation (the effort expended by your torso and gluteal muscles) during your workout, take your hands off the machine handles or handrails while maintaining an upright posture.

Interval Key

Interval workouts help exercisers improve strength, endurance, aerobic and anaerobic fitness. They alternate short bursts of high intensity activity with recovery periods. Pressing the **Interval** key selects the available interval workout.

Note: On the AMT, two different interval workouts are available. Press the **Interval** key repeatedly to scroll between the available workouts.

1-1 and 1-2 Interval

The 1-1 Interval workout is designed to raise and lower your heart rate in a repeating fashion for a user-defined period of time by alternating rest and work intervals of two minutes each. Likewise, the 1-2 Interval workout alternates two minutes of rest with four minutes of work.

Training tip: You can tailor your rest and work period intensity further by adjusting either of the intensity settings at any time. The equipment remembers these preferences for each upcoming interval.

Custom Interval

The Custom Interval workout is similar to the Interval workout. However, before you begin, you must specify the length of the rest and work intervals. Use either the arrow keys or the keypad to select a duration between 1 and 30 minutes, then press **OK** to enter your selection. After you have entered both durations, your workout begins.

Training tip: Depending on your fitness level and workout goals, you can set your recovery period as low as one minute between work intervals. For the work intervals themselves, you can set any duration between 1 and 30 minutes. Customizing the proportions of your work and rest intervals based on your unique training objectives will speed your progress toward your performance goals.

Manual Key

The workout available through the **Manual** key motivates you by allowing you to define and track your exertion levels throughout your exercise session.

Training tip: As you progress through your workout, each segment of the profile reflects the last change you made to the intensity settings. Challenge yourself by adjusting your training parameters regularly for the best results.

Maintenance

To keep the equipment functioning properly, perform the minor maintenance tasks in this section at the intervals suggested. Failure to maintain the equipment as described in this section could void the Precor Limited Warranty.

DANGER To reduce the risk of electrical shock, always disconnect the equipment from its power source before cleaning it or performing any maintenance tasks. If the equipment uses an optional power adapter, disconnect the adapter.

Cleaning the Console and Display

The console requires little maintenance once installed. Precor recommends that you clean the console before and after each exercise session.

To remove dust and dirt from the console:

- Wipe all exposed surfaces with a soft cloth that you have moistened with a solution of 30 parts of water to 1 part of Simple Green® (for more information, visit www.simplegreen.com).

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 or console's screen.

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

Checking and Resetting the Active Status Light (Treadmill Only)

Experience Series treadmills manufactured after June 2014 include many improvements in design, function, and usability. One of those improvements is the status indicator light at the front of the treadmill hood, which gives a club owner or technician an easy way to check up on the condition of the treadmill.

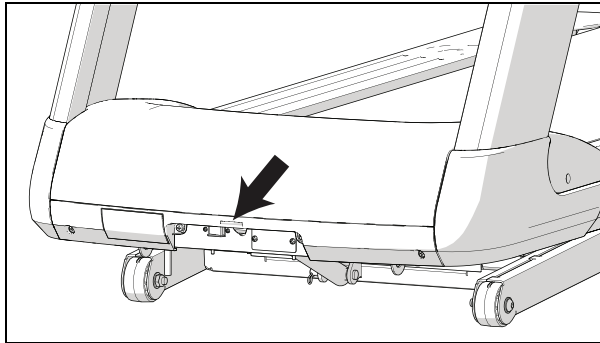


Figure 9: Status light location

Table 9. Active status light appearances and their meanings

Status light appearance	Meaning	Action required
Steady (solid) blue	The treadmill is operating normally and does not currently need maintenance.	None.
Pulsing blue	The treadmill is due for scheduled maintenance (P80 console only), or the treadmill belt needs to be replaced (except for 230 V models).	Perform the needed maintenance, then reset the status light.
Steady (solid) yellow	The treadmill has detected and recovered from an error. It can still be used, but some functions may not be available.	Refer to the console's event log for more information.
Pulsing yellow	The treadmill has detected an error, has been unable to recover from the error, and has taken itself out of service.	Power-cycle the treadmill (switch it off, wait 30 seconds, then switch it on again). If the error occurs again, check the console's event log for more information, then contact Precor Customer Support.

Important: Contact Precor Customer Support before running any of the diagnostic tests on the Hardware Validation menu.

To review and reset the status of the treadmill:

1. At the Welcome banner, press the **Pause** key, then enter the following digits on the keypad:
5 1 7 6 5 7 6 1
2. Use the up and down arrow keys to scroll through the menu names until **HARDWARE VALIDATION** appears.
3. In the Hardware Validation menu, use the up and down arrow keys to scroll through the menu options until **ACTIVE STATUS LIGHT** appears, then press **OK** again.
4. Press and hold the **Quick Start** key until the status light returns to a steady blue color.
5. Press the **Pause** key to return to the Welcome banner.

Note: If the status light is steady yellow, you can also clear it by reviewing and clearing the entries in the event log (refer to *Viewing the Informational Displays*).

To adjust the brightness of the status light:

1. At the Welcome banner, press the **Pause** key, then enter the following digits on the keypad:
5 1 7 6 5 7 6 1
2. Use the up and down arrow keys to scroll through the menu names until **HARDWARE VALIDATION** appears.
3. In the Hardware Validation menu, use the up and down arrow keys to scroll through the menu options until **AS LIGHT BRIGHTNESS** appears, then press **OK** again.
4. Scroll through the available settings (**LOW**, **MED**, and **HIGH**) to select the brightness level you want, then press **OK**.

Changing the Belt (AMT Only)

The AMT uses belts to provide motion. These belts eventually wear and must be replaced.

When the belt stride count reaches 90 million, the message **BELTS MUST BE CHANGED SOON** scrolls on the Welcome screen. While this message appears, the AMT operates normally.

Important: *If this message displays on your AMT, please contact Precor Customer Support for assistance.*

When the belt stride count reaches 100 million (and the belt has not been changed), the message **BELTS CHANGE REQUIRED** scrolls continuously on the Welcome screen. The input keys are not functional and the user cannot enter values or begin a workout until the belts are changed. Please contact Precor Customer Support to schedule a belt change.

Notes:

Notes:



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P10 OM 302291-102 rev B, en
June 2014

Assembling and Maintaining AMT[®] 800-Series Adaptive Motion Trainers[®]



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Edition Information

ASSEMBLING AND MAINTAINING AMT 800-SERIES
ADAPTIVE MOTION TRAINERS

P/N 301704-341 rev F

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Important Safety Instructions

Important: *Save these instructions for future reference.*

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

Note: This product is intended for commercial use.

The display apparatus (hereinafter referred to as the *console*) is intended to be shipped with new Precor exercise equipment (hereinafter referred to as the *base unit*). It is not packaged for individual sale.

WARNING To prevent injury, the console must be attached securely to the base unit following all assembly and installation instructions shipped with the base unit. The console is intended to be connected to AC mains power through the furnished power supply ONLY. It should be powered on only when installed as described in the assembly and installation instructions shipped with the base unit. The console is intended for use only with Precor fitness equipment, not as a standalone device.

Safety Precautions

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, particularly if they have high blood pressure, high cholesterol or heart disease; have a family history of any of the preceding conditions; are over the age of 45; smoke; are obese; have not exercised regularly in the past year; or are taking any medication.

French equivalent of the above notice, for Canadian markets: *Il est conseillé aux utilisateurs de subir un examen médical complet avant d'entreprendre tout programme d'exercice, en particulier s'ils souffrent d'hypertension artérielle, ou de cardiopathie ou ont un taux de cholestérol élevé, s'ils ont des antécédents familiaux des précédentes maladies, s'ils ont plus de 45 ans, s'ils fument, s'ils sont obèses, s'ils n'ont pas fait d'exercices réguliers au cours de l'année précédente ou s'ils prennent des médicaments. 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.
- For Treadmills: Do not use typing or web surfing features while walking at speeds that exceed a **slow and relaxed leisurely pace**. Always stabilize yourself by holding a stationary handle bar while using typing or web surfing features.
- For AMT and EFX: Always stabilize yourself by holding a stationary handle bar while using typing or web surfing features.
- 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.

- **SPACING**—The below minimum spacing recommendations are based on a combination of the ASTM (U.S.) voluntary standards and EN (European) regulations as of October 1, 2012, for access, passage around, and emergency dismount:
 - **Treadmills**—a minimum of 0.5 m (19.7 in.) on each side of the treadmill and 2 m (78 in.) behind the machine.
 - **Cardio equipment other than treadmills**—a minimum of 0.5 m (19.7 in.) on at least one side, and 0.5 m (19.7 in.) behind or in front the machine.

Careful consideration should be given to the requirements of the Americans with Disabilities Act (ADA), US Code 28 CFR (see Section 305). ASTM standards are voluntary and may not reflect current industry standards. The actual area for access, passage around, and emergency dismount is the responsibility of the facility. The facility should consider the total space requirements for training on each unit, voluntary and industry standards, and any local, state, and federal regulations. Standards and regulations are subject to change at any time.

Important: *These spacing recommendations should 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.
- Keep in mind that heart rate monitors are not medical devices. Various factors, including the user's movement, may affect the accuracy of the heart rate readings. The heart rate monitors are intended only as exercise aids in determining heart rate trends in general.
- 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 owner's manual. 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 400 pounds (180 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 the owner's 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 power only.

Educating Users

Take time to educate users about the Important Safety Instructions found in both the *User Reference Manual* and *Product Owner's Manual*. Explain to your club or facility patrons that they should observe the following precautions:

- Hold onto a stationary handrail or handlebar while assuming the starting position on the equipment.
- Face the console at all times.
- Hold on to a stationary handrail or handlebar with one hand whenever you operate the console keys with the other hand.

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*.

Regulatory Notices for the RFID Module

When equipped with a control console as described in this document, this equipment may include a radio-frequency identification (RFID) module. The RFID module has been certified to operate at temperatures between -20°C and 85°C (-4°F and 185°F).

Radio Frequency Interference (RFI)

The RFID module conforms to the following national standards defining acceptable limits for radio frequency interference (RFI).

Federal Communications Commission, Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the owner's manual instructions, can cause harmful interference to radio communications.

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.

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 device complies with RSS-210:2007 of the Spectrum Management & Telecommunications Radio Standards Specification. 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 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

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

Directive compliance has been verified to the following standards:

- EN 55022
- EN 300 330-1 V1.5.1
- EN 300 330-2 V1.3.1
- EN 301 489-3 V1.4.1
- EN 301 489-1 V1.8.1
- EN 60950-1

Regulatory Notices for Cardiovascular Exercise Equipment

The regulatory information in this section applies to the exercise equipment and its control console.

Safety Approvals for Cardiovascular Equipment

Precor equipment has been tested and found to comply with the following applicable safety standards.

Cardiovascular Type Equipment:

- CAN/CSA, IEC, EN 60335-1 (Household and similar electrical appliances - Safety)
- EN 957 (Stationary training equipment, class S/B compliant equipment)

PVS and P80 Regulatory Notice

This Precor equipment has been tested and found to comply with the following applicable safety standards.

- CAN/CSA, UL, IEC, EN 60065 (Audio, video and similar electronic apparatus - Safety)

Radio Frequency Interference (RFI)

This Precor exercise equipment conforms to the following national standards defining acceptable limits for radio frequency interference (RFI).

Federal Communications Commission, Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. The equipment 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 Precor 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

European Applications

CE compliance is claimed to the following directives:

- 2004/108/EC EMC Directive
- 2006/95/EC LVD Directive
- 2002/95/EC RoHS Directive

Directive compliance has been verified to the following standards:

- EN 55022
- EN 55024
- EN 60335-1
- EN 60065 (P80 and PVS)

Electrical Recommendations: All Equipment Excluding Treadmills

Note: This is a recommendation only. NEC (National Electric Code) guidelines or local region electric codes must be followed.

For equipment fitted with a P80 console or Personal Viewing System (PVS) screen a separate power connection is required. For a 20 amp branch circuit up to 10 screens can be connected. If the branch circuit has any other devices plugged into the circuit, then the number of screens must be reduced by the wattage of the other devices.

Note: The typical splitter power cords that have IEC-320 C13 and C14 plugs have a recommended maximum capacity of five screens.

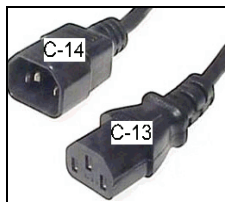


Figure 1: IEC-320 C13 and C14 plugs

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>**.

Obtaining Updated Documentation

Current Precor product documentation is available at **<http://www.precor.com/productmanuals>**. You may want to check in for updated information from time to time.

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Assembling the AMT

Important: The instructions in the following procedures are described from the perspective of a person standing **directly in front of the equipment** (that is, on the opposite side of the control console from a person using the equipment). These descriptions may not match the names of certain parts in the parts list, because such parts are named relative to the back of the equipment.

To prepare the AMT for assembly:

- Open the box and assemble the components in the sequence presented in this guide.
- Assemble and operate your equipment on a hard, level surface in the area intended for use.

Important: Do not grasp any plastic parts of the unit while lifting or moving the unit. The plastic parts are non-structural covers and are not capable of supporting the weight of the unit.

- Provide ample space around the unit.
- Assemble the equipment according to the guidelines in this manual to ensure you do not void the Precor Limited Warranty.

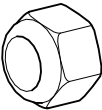
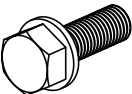
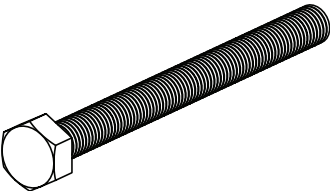
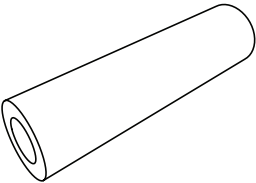

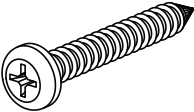
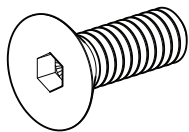
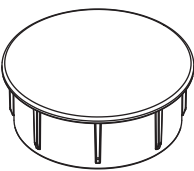
Important: Any damage caused during installation is not covered by the Precor Limited Warranty.

- Attach all fasteners and partially tighten them. Do not fully tighten fasteners until instructed to do so.

WARNING You will need assistance to assemble this unit. **DO NOT attempt assembly by yourself.**

Hardware Kit (not to scale)

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.

Fasteners		Quantity
	Nylon lock nuts ($\frac{5}{16}$ -inch)	6
	Hex head bolts ($\frac{5}{16}$ -inch x 1-inch)	4
	Hex head bolts ($\frac{5}{16}$ -inch x 3½-inch)	6
	Bolt sleeve ($\frac{5}{16}$ -inch)	2
	Flat washers ($\frac{5}{16}$ -inch)	6
	Self-tapping screw (#10 x 1¼)	6
	Flat head hex drive screws (¼-inch x ⅝-inch)	5
	End caps	2

Required Tools

- #2 Phillips screwdriver
- Rubber mallet
- SAE standard socket set
- Wire cutter
- Two #1 Phillips screwdrivers
- Torque wrench (calibrated in inch-pounds, and including $\frac{3}{16}$ -inch hex wrench bit)

Unpacking the AMT

DANGER Do not attempt to connect electrical power until all assembly procedures are complete and the console is properly installed.

CAUTION: Do not climb onto the AMT until directed to do so.

Follow these steps to remove the AMT base unit from its shipping container.

To unpack the AMT:

1. Remove the rear pedestal and set it aside.
2. Remove and discard the fastener securing the back of the center support to the shipping pallet.
3. Remove and discard the bolts and nuts securing the wooden supports to the side arms of the AMT.
4. Remove the fasteners securing the wooden supports to the shipping pallet, then discard the supports and the fasteners.

Important: In the following step, do not force the foam block placed around the center support. Doing so may damage the plastic cover on the center support. Instead, slide the foam block backward until you have removed it from the plastic cover, then lift it out of the way.

5. Cut and remove the plastic ties, bubble wrap, and foam blocks securing the unmounted parts inside the shipping container.

Adding the Side Arm Supports

In the next procedure you will need the following pieces of hardware:

- Two side arm supports
- Two inner side arm covers
- Two outer side arm covers
- Six #10 x 1¼-inch self-tapping screws
- Six ⅝-inch x 3½-inch hex head bolts
- Six ⅝-inch nylon lock nuts
- Six ⅝-inch flat washers
- Four ⅝-inch x 1-inch hex head machine screws

Important: *The side arm supports are shipped with foam blocks inserted in one end. These blocks are provided to prevent fasteners from falling into the supports. Do not remove the foam blocks or push them down into the supports.*

To add the side arm supports:

1. Place the upper end of the right-hand support against the right-hand side arm.
2. Insert two ⅝-inch x 1-inch hex head machine screws (with washers attached) into the two holes underneath the side arm support bracket and tighten partially.

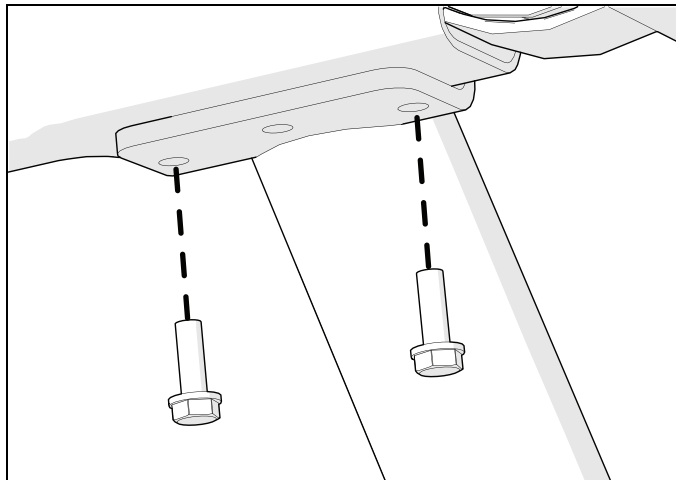


Figure 2: Machine screw attachment to install side arm support

3. Slide one $\frac{5}{16}$ -inch flat washer and one $\frac{5}{16}$ -inch sleeve over one of the $\frac{5}{16}$ -inch x $3\frac{1}{2}$ -inch hex head bolts.

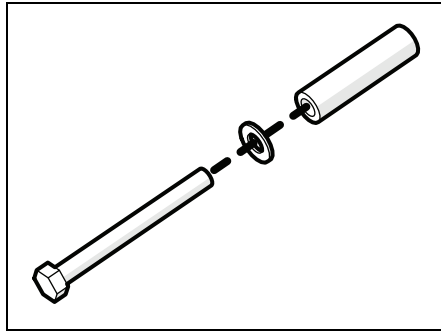


Figure 3: Adding the sleeve and washer

4. Insert the $\frac{5}{16}$ -inch x $3\frac{1}{2}$ -inch hex head bolt, with the washer and sleeve, into the screw hole on the inside of the right-hand side arm. Attach a $\frac{5}{16}$ -inch nylon lock nut to the end of the bolt and tighten partially.

Important: Be sure to insert the bolt into the inward side of the side arm and apply the nut to the outward side, as shown in the following figure. If the bolt is inserted in the other direction, the side arm covers will not fit. Do not tighten fasteners completely until instructed to do so.

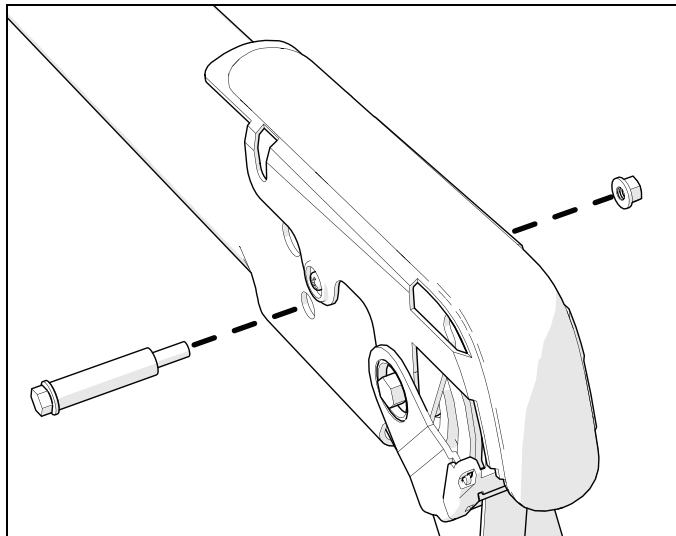


Figure 4: Bolt and sleeve attachment to install side arm support

5. Repeat steps 1 through 4 to attach the left-hand side arm support to the left side arm.

6. Place the flanges of the two side arm supports against the sets of screw holes on the center support. Insert a screwdriver through the middle holes in both flanges and the center support to keep the screw holes aligned.

Note: Use narrow screwdrivers, such as #1 Phillips screwdrivers, for this step. If necessary, use them to help pull the side arm supports into place against the center support.

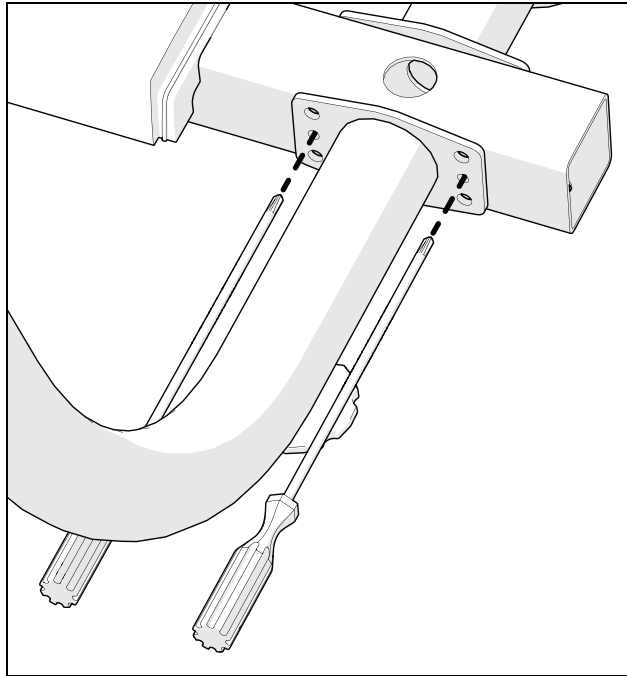


Figure 5: Lower side arm support alignment

7. Slide a $\frac{5}{16}$ -inch flat washer over each of the four $\frac{5}{16}$ -inch x $3\frac{1}{2}$ -inch hex head bolts.

8. On the opposite side of the center support from the handles of the screwdrivers, insert the four $\frac{5}{16}$ -inch x $3\frac{1}{2}$ -inch hex head bolts. Attach a $\frac{5}{16}$ -inch nylon lock nut to each bolt. Partially tighten the fasteners, then remove the screwdrivers.

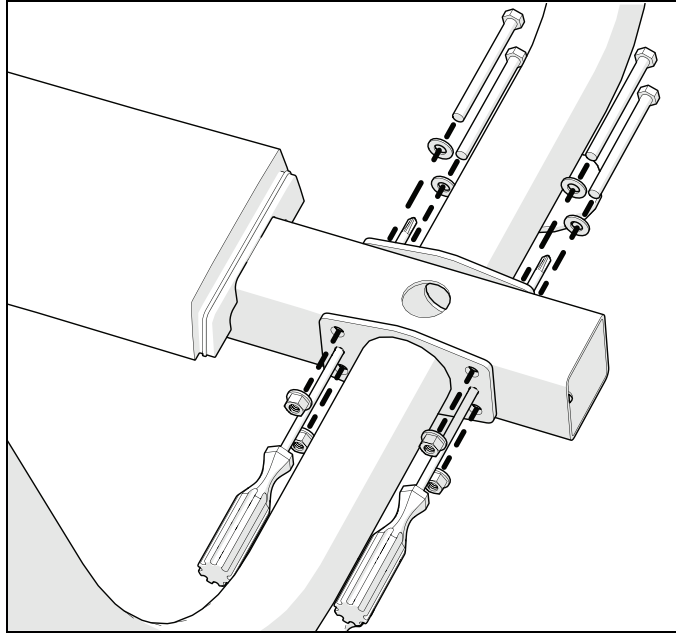


Figure 6: Lower side arm attachment

9. Adjust the side arm supports as needed, then tighten all of its fasteners to 160 inch-pounds of torque.
10. Extend the adjustable feet on the side arm supports until they touch the floor, then remove the spacer block from under the back end of the AMT.

Note: If necessary, use a $\frac{9}{16}$ -inch open-ended wrench to loosen the jam nuts on the adjustable feet.

11. Remove the two #10 x $\frac{3}{4}$ -inch Phillips-head screws securing the upper back corner of the inner plastic molding to the end of the right side arm.

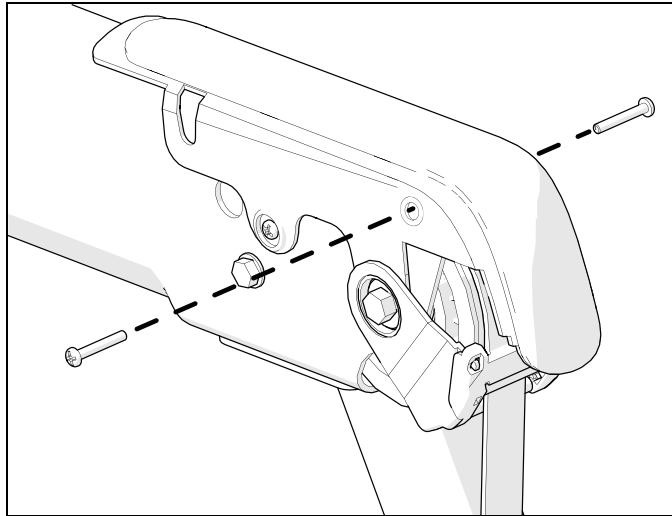


Figure 7: Removal of screws from inner plastic molding

12. Fit the right-hand inner and outer side arm covers to the right side arm. Insert three #10 x 1¼-inch self-tapping screws and the two #10 x ¾-inch screws you removed in the previous step, then tighten all of the screws completely using a #2 Phillips screwdriver.

Note: Tighten the screws to between 8 and 12 inch-pounds. Alternatively, tighten the screws until the two side arm covers are in full contact, then turn the screws an additional quarter turn.

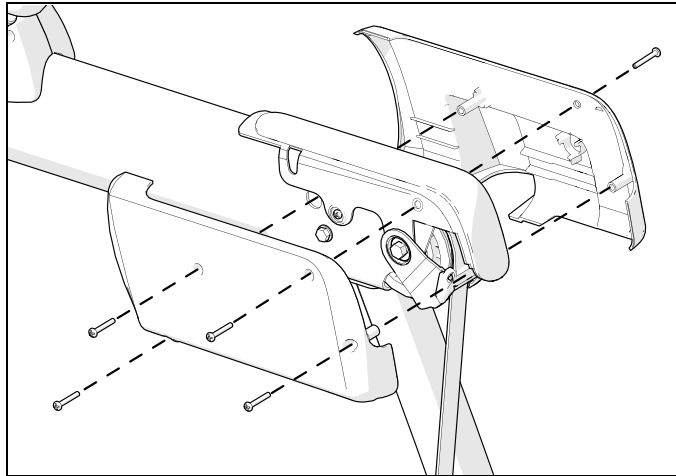


Figure 8: Side arm cover attachment

13. Repeat the previous two steps for the left side arm.
After the side arm supports are secured, move the AMT off of its shipping pallet to the location where you intend it to be used.

CAUTION: Do not move the AMT off of its shipping pallet without assistance. Do not apply any weight or other force to the side arms of the AMT until the side arm supports have been installed. To avoid unnecessary movement of the foot plates, do not position the handlebars until instructed to do so.

To move the AMT from the pallet to its intended location:

1. Remove and discard the two fasteners securing the front frame tube of the AMT to the shipping pallet, as shown in the following figure.

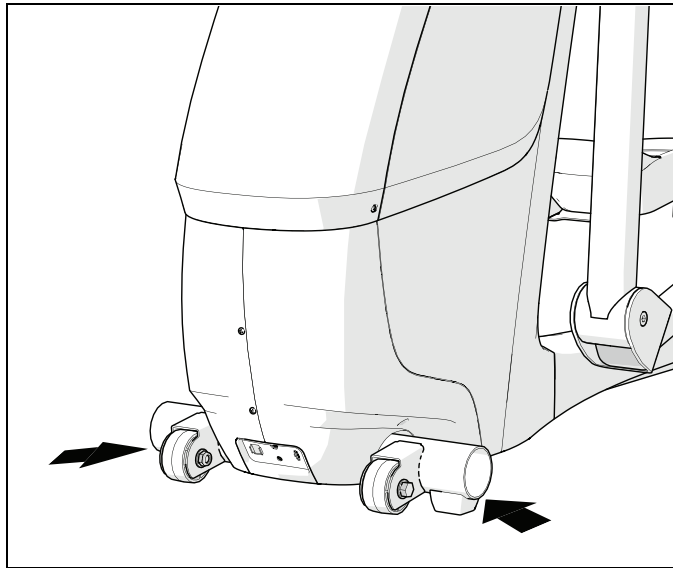


Figure 9: Front pallet anchor locations

2. Lift the back end of the center support and roll the AMT forward while your assistant stabilizes its front end and guides it off the shipping pallet onto the floor.
3. Move the AMT ahead to its intended location.
4. Insert the end caps into the front frame tube. If necessary, use a rubber mallet to tap them into place.

Removing Access Covers

Removing the front and side access covers provides sufficient space to install the console cables.

Note: If you are installing a P10 or P30 console without a Personal Video System (PVS) or other accessory cap, you do not need to remove any access covers. Continue with the next section of the manual.

Important: Before continuing with the following procedure, be sure to remove any ties or other materials that hold the side arms in place before the supports are installed. Set aside all covers and fasteners that you remove in this procedure for later use.

To remove the access covers:

1. Lift the moisture seal upward and remove it from the center support.

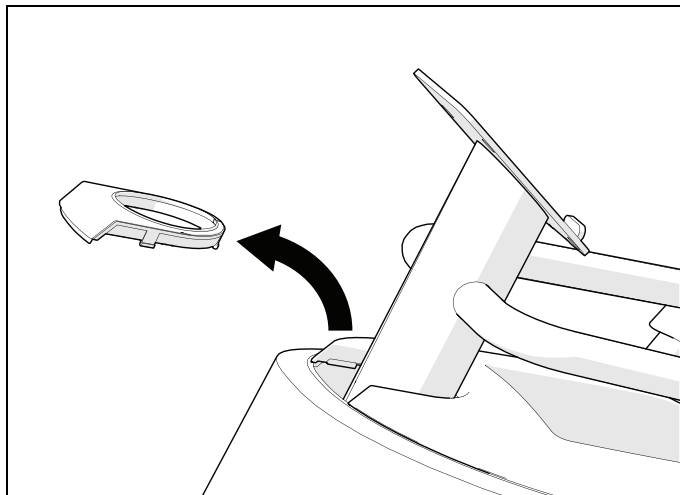


Figure 10: Moisture seal removal

2. Extend a finger through the moisture seal opening and under the front edge of the top cover on one side. While pressing upward on the top cover, use the heel of your hand to tap gently below its front edge and release it. Repeat this step to release the other side of the top cover.

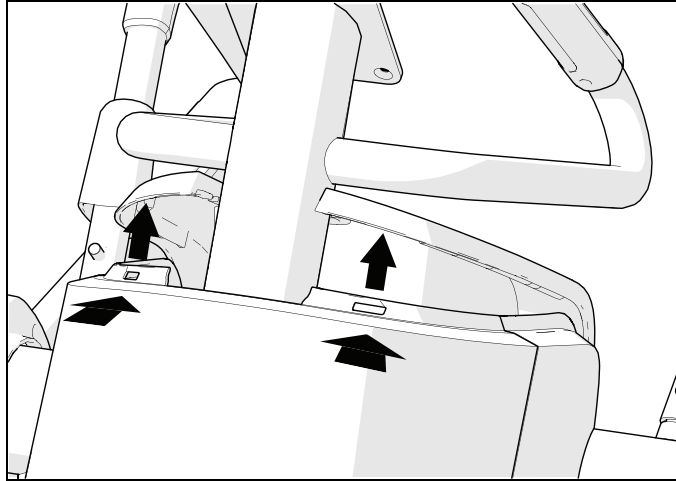


Figure 11: Top cover removal

3. While holding the front edge of the top cover up, use the heel of your other hand to tap gently just below the cover's back edge. Lift the cover up and out of the way.

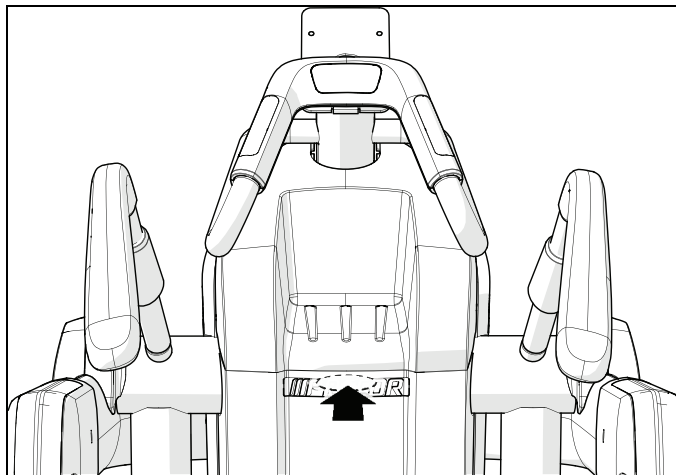


Figure 12: Releasing the back of the top cover

4. Remove the two #10 x 3/4-inch screws at the bottom corners of the front cover assembly.
5. Gently press in on each of the side covers, just behind the front edge and about 8½ inches from the bottom, while pulling the front cover assembly forward to disengage it.

Note: Each side cover has a small triangular mark to show you where to press.

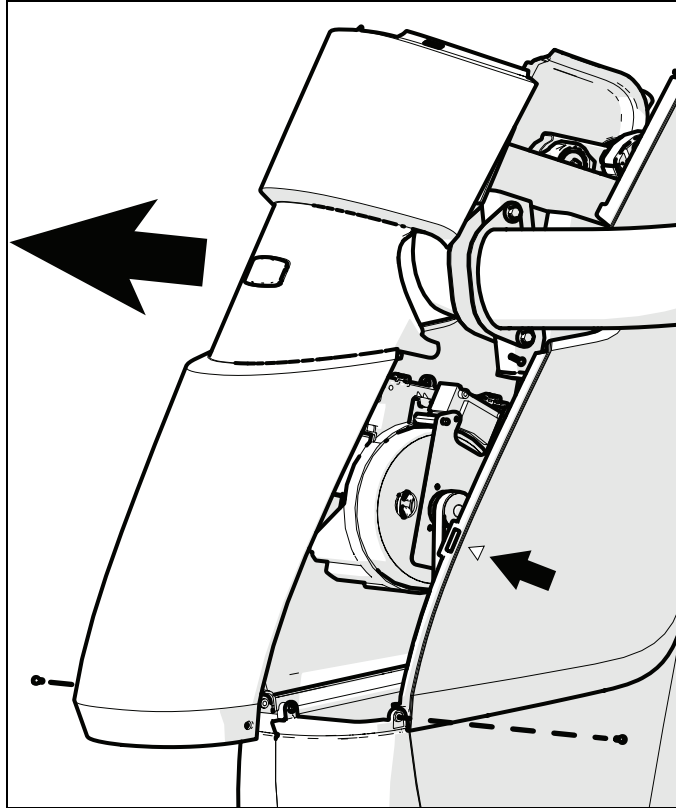


Figure 13: Front cover assembly removal

6. Move the front cover assembly forward and slightly upward to remove it.

Threading the Console Cables

Before you begin this procedure, make sure that you have retrieved the following parts from the console package:

- Ethernet (CAT 5) coupler and cable (models with P80 consoles only)
- Television coupler and cable (models with P80 consoles or Personal Video Systems only)
- Console power cable (models with P80 consoles or Personal Video Systems only)

Important: Be absolutely certain that all cables pass through all of the cable clips. Do **not** allow any of the cables to hang near any moving parts.

To thread the console cables:

Important: If you are installing console power and television cables in the following step, pass the console power cable through the opening first, followed by the television cable. Pass the remaining cables through in order of connector size.

1. Pass the ends of all cables through the opening in the top of the cable channel above the jack plate, then slide the cables into the guides in the channel.

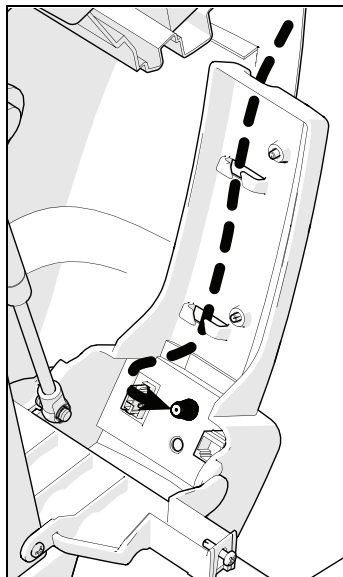


Figure 14: Cable routing through the lower cable channel

- 2. Remove the nut from the outward end of the television cable coupler.
- 3. Insert the connectors into the jack plate at the lower front of the AMT, as shown in the following figure and table.

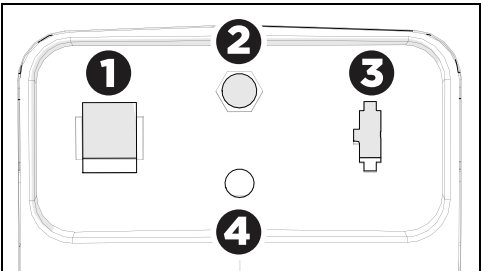


Figure 15: Jack plate layout

Table 1. AMT connector locations

Position	Connector
1	Ethernet coupler (P80 console only)
2	Television cable coupler (P80 console only)
3	Console power cable (P80 console only)
4	External power connector for base unit (optional)

Important: In the following step, do not overtighten the connector. Finger-tighten it until it is snug, then use the wrench to tighten it only slightly (8 to 9 inch-pounds).

- 4. Replace the nut that you removed from the television cable coupler in step 2, then tighten it slightly using a 7/16-inch open-end wrench.
- 5. Plug the Ethernet cable into the inside jack on the Ethernet coupler.
- 6. Connect the television cable to the inside end of the television cable coupler. Tighten the connector slightly using a 7/16-inch open-end wrench.

7. Route the cables through the three clips next to the front flywheel, then through the topmost cable clip on the main frame, and finally up to the center column.

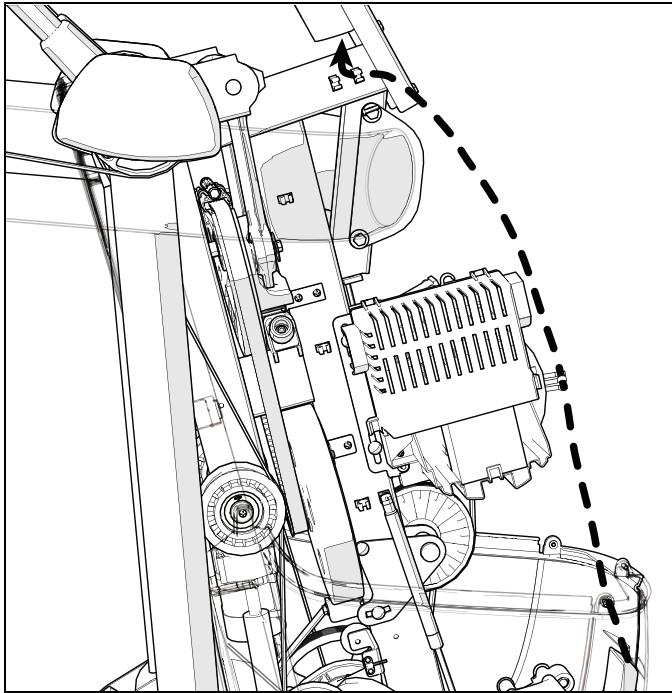


Figure 16: Cable routing along the frame to the center column

8. Remove the tie from the base unit data cable, then group that cable with the others.
9. Thread the cables upward through the center column and out through the center opening in the console mount, making sure that the heart rate sensor cable extends out of the opening as well.

Important: Store excess cable inside the center column. Do **not** allow cables to hang loosely inside the body of the AMT.

Replacing Access Covers

For this procedure, you will need the covers you removed earlier, as well as the fasteners you removed with them.

To replace the access covers:

1. Guide the arm openings in the front cover around the arms of the AMT, taking care that the tabs at the bottom corners of both openings are inside the two side covers, then guide the front cover into place until the latches on the side covers click into place.

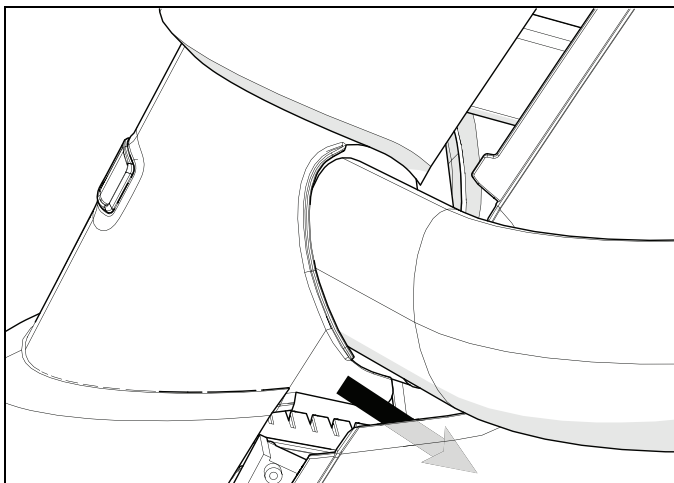


Figure 17: Front cover positioning

2. Reattach the two #10 x $\frac{3}{4}$ -inch screws at the bottom corners of the front cover. Tighten the screws completely.
Important: In the following step, do not apply excessive force to seat the cover.
3. Position the rear edge of the top cover so that the clips on the top and back covers are engaged securely.
4. Gently snap the front edge of the top cover into place, using the heel of your hand if necessary.

5. Wrap the moisture seal around the center column below the heart rate sensor grips, then fit it into the top cover. Make sure that the surfaces and edges of the moisture seal are flush with those on the top cover.

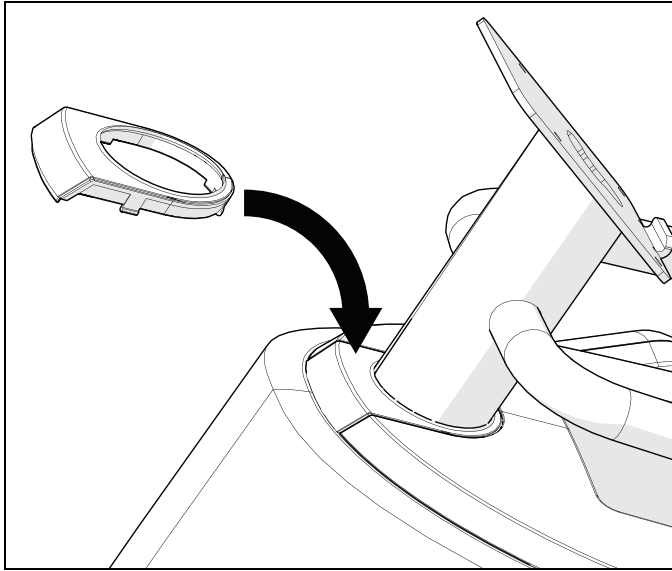


Figure 18: Moisture seal positioning

Positioning the Handlebars

To avoid damage in shipment, the ATM is packed with its handlebars reversed. Two $\frac{3}{8}$ -inch x $1\frac{1}{4}$ -inch set screws are loosely threaded into the screw holes on each handlebar. The plastic boots that will cover the screw holes are positioned just above them on the handlebars.

To position the handlebars for use:

1. Remove the two set screws from one handlebar.

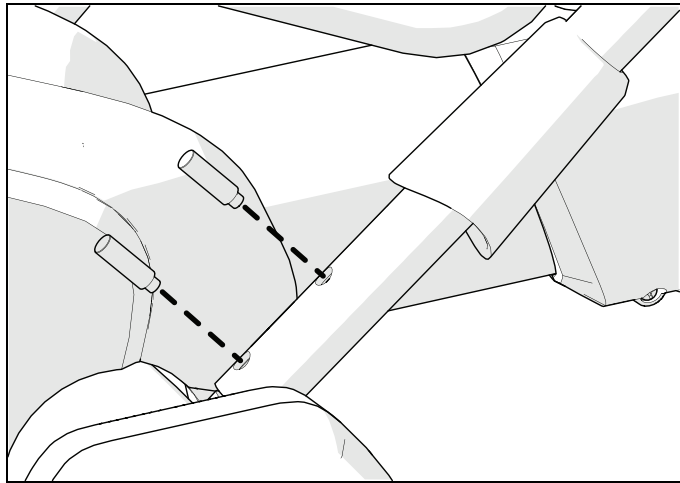


Figure 19: Handlebar set screw removal

2. Rotate the handlebar exactly one half turn (180°).

Note: When the handlebar is positioned correctly, it bends slightly outward. The screw holes in the handlebar should also line up with those on the AMT.

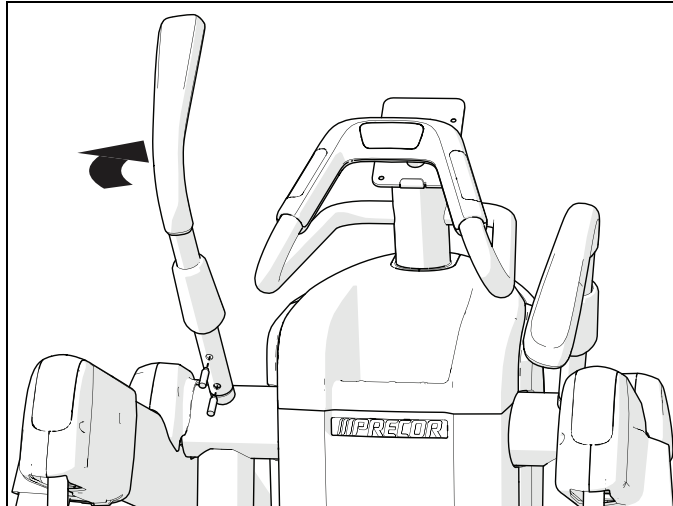


Figure 20: Handlebar positioning steps

3. Reinsert the two set screws. Leave the screws partially tightened until you have adjusted both handlebars.
4. Repeat steps 1 through 3 to position the other handlebar.

5. Adjust the positions of both handlebars outward as much as possible. Both handlebars should be at equal angles to the body of the AMT and angled slightly outward, as shown in the following figure.

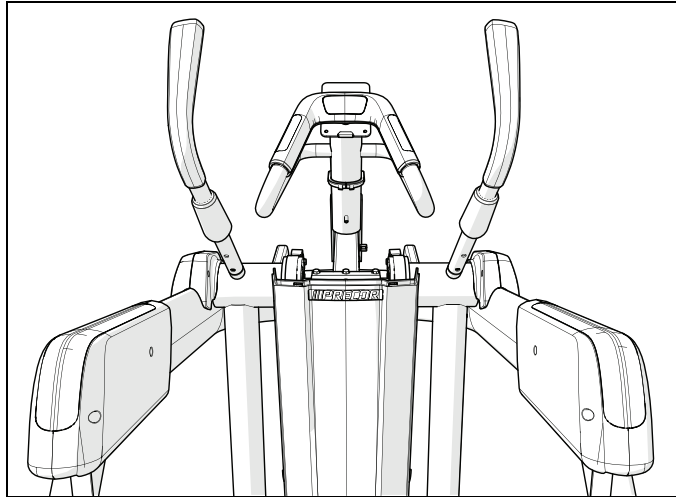


Figure 21: View of handlebar placement

6. Rotate one of the plastic boots so that it aligns with the surface below it, then press the boot downward to secure it in place. Repeat this step to position the other plastic boot.

Leveling the AMT

It is important that you level and stabilize the AMT properly every time you move it.

CAUTION: To eliminate movement, make sure the adjustable feet are in contact with the floor. Also, make sure that the unit sits on a flat surface. Adjusting the feet of the unit cannot compensate for extremely uneven surfaces.

To level the AMT:

1. Gently rock the AMT while standing on one of its foot plates and grabbing the opposite handlebar. First stand on the left foot plate and grab the right handlebar to rock the AMT, then repeat the step while standing on the right foot plate and holding the left handlebar. If there is any movement, ask your assistant to tip the unit on its side while you locate the adjustable feet.

Note: Alternatively, place the angled end of a 12" pry bar against the underside of the back frame tube at its end, then press the straight end of the pry bar against the floor to lift the back of the AMT a few inches.

2. Using a $\frac{9}{16}$ -inch open-ended wrench, move the jam nuts away from the side arm supports and toward the adjustable feet.

3. Reposition the adjustable feet as needed.

If you want to ...

Then turn the adjustable feet ...

Raise the front end of the AMT

Counterclockwise

Lower the front end of the AMT

Clockwise

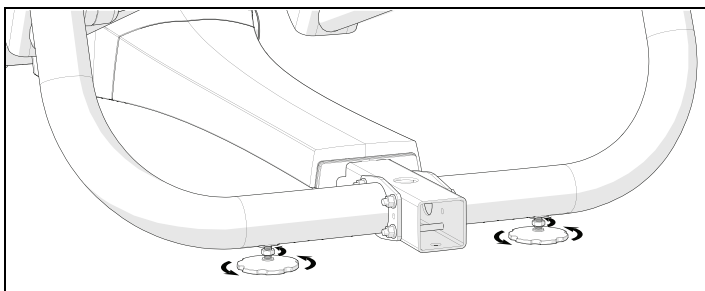


Figure 22: Location of adjustable feet and jam nuts

Important: To allow the rear pedestal to fit properly, the adjustable feet must extend at least 2" (5 cm) below the side arm supports. Extending the feet before you remove the spacer block, as described in the section Adding the Side Arm Supports earlier in this chapter, ensures that they are positioned correctly.

4. When you are finished positioning the adjustable feet, place the unit on the floor. Try rocking it again, as described in step 1, to verify that it is level.
5. Using the $\frac{9}{16}$ -inch open-ended wrench, move the jam nuts upward until they contact the side arm supports. Tighten the jam nuts completely.
6. Align the rear pedestal over the back frame tube and the side arm covers, then press it gently into place.

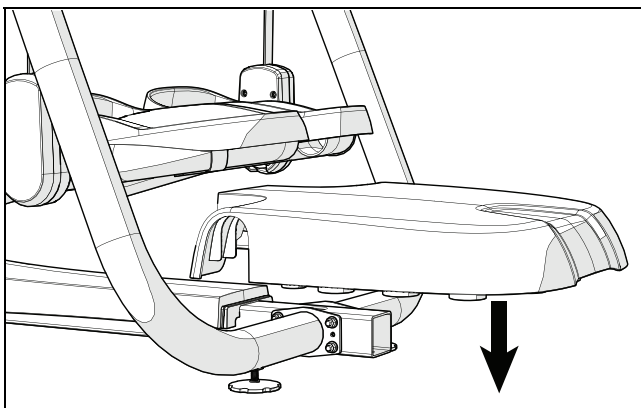


Figure 23: Rear pedestal attachment

Breaking In the Equipment

Precor equipment does not require an actual break-in period. However, moving components such as belts, gears, and bearings can settle while the equipment is being stored or shipped. This can cause the equipment to operate with a small amount of roughness or noise when it starts up for the first time.

The equipment usually returns to smooth operation after a day or two of normal use. If it does not, contact your dealer for assistance. For more information, refer to *Obtaining Service*.

Installing the Console

To make installation easier, all Precor Experience Series consoles use the same mounting hardware and connector locations whenever possible. The installation sequence for any of them is as follows:

- Threading the console cable assembly
- Connecting cables
- Completing the installation (tightening the mounting screws and attaching the back cover)

The following sections describe how to perform these tasks.

Threading the Console Cable Assembly (P80)

Earlier in the installation, you threaded the necessary cables through the frame of the base unit and out the passthrough opening in the console mount. As you line up the back plate on the console with the console mount, you must make sure that the console cable assembly passes correctly through the openings in both components.

Important: Before you begin the following procedure, remove the rear cover from the control console. To remove the cover, use your fingernails to pry the lower edge loose, then swing the cover up and out as shown in the following illustration.

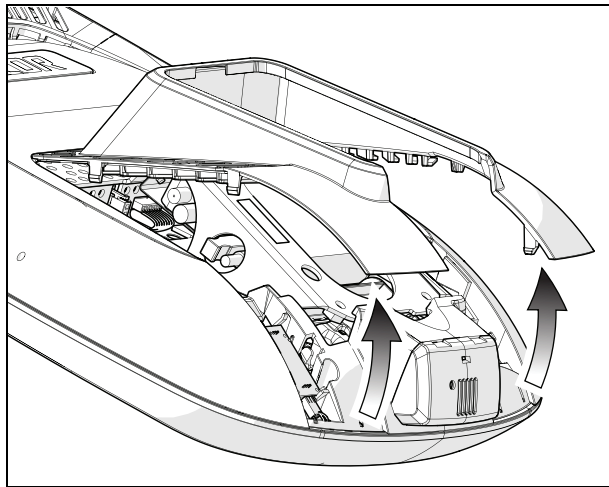


Figure 24: Removing the access cover from the P80 console

To thread the console cable assembly:

1. Make sure that as much of each cable as possible passes through the opening in the middle of the console mount on the base unit.
2. Position the console over the console mount.

3. Rest the console on the console mount so that the notch on the bottom of the console's back plate rests on the rectangular hook at the bottom of the console mount, as shown in the following figure.

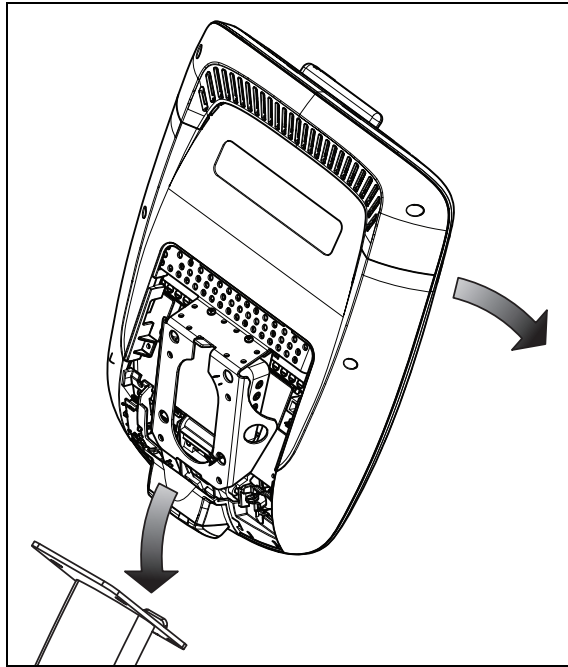


Figure 25: Console positioning on base unit

4. Tilt the console forward until it stops. Use one hand to steady the console in this position, or ask your assistant to do so.

Connecting Cables (P80)

After the console has been seated, separate the individual cables out of the end of the console cable assembly and attach them to the appropriate circuit connectors inside the console. Refer to the following diagram and table to identify the cables and connectors.

Important: All cables must pass through the opening in the center of the console mount.

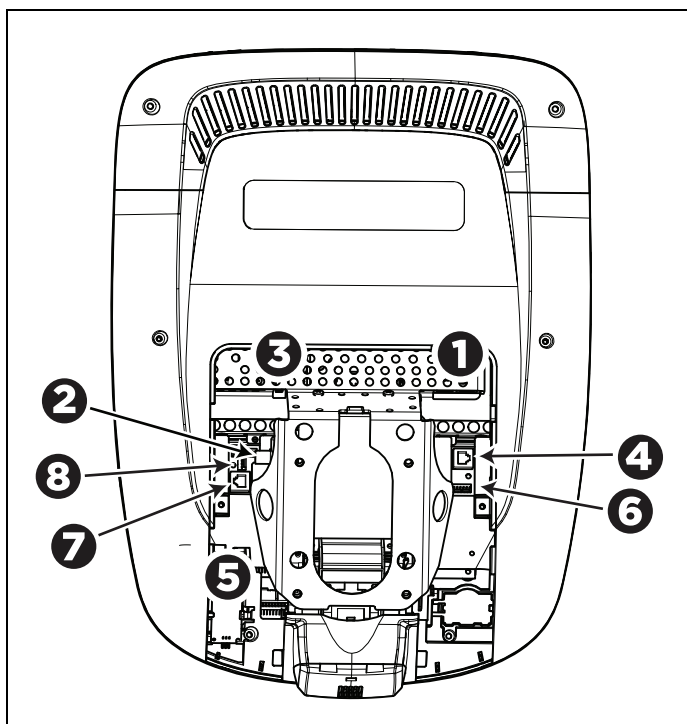


Figure 26: Cable connections, P80 console

Table 2. P80 internal cable connections

Cable	Connector Type	Circuit Connector Location
Ethernet (LAN)	Eight-contact modular, on round black cable	1
TV in	F-type coaxial	2
Power	Two-contact plug, polarized and latched	3
Data from base unit	Eight-contact modular, on flat gray cable	4
Heart rate sensors	Four-contact strip, keyed	5
Safety key (treadmills only)	Six-contact strip, keyed	6
CSAFE	Eight-contact modular, on flat gray cable	7
Automatic stop sensor (treadmills only)	Vertical four-contact strip, keyed	8

To simplify installation and maintenance, route and connect cables 1 through 5 according to the following instructions.

Note: In the illustrations in this section, some cables are omitted for the sake of clarity.

Connecting the Television Cable

The console's television tuner is mounted inside the console's back plate. The tuner includes a short cable adapter that allows the television cable to be connected outside the back plate.

To connect the television cable:

1. Pull the cable out through the lower right corner of the back plate.
2. Route the cable counterclockwise around the outside of the back plate.

Important: *In the following step, install the cable using a torque wrench and torque not to exceed 8 lb-in. If a torque wrench is not available, install the coaxial cable using a plain wrench and tighten to "snug + 1/4 turn." You may also use a wrench on the internal nut to help tighten the connection.*

3. Attach the connector on the cable to the connector on the tuner cable and tighten the two connectors securely using two 7/16-inch open-end wrenches. Position both connectors above the upper right corner of the back plate.
4. Use a plastic tie to secure the connectors to the top of the back plate. Pass the tie through the two small holes near the upper right corner of the back plate, then wrap it around the connectors and tighten it securely. Cut off and remove the protruding end of the tie.

The following illustration shows how the cable is positioned once it is installed.

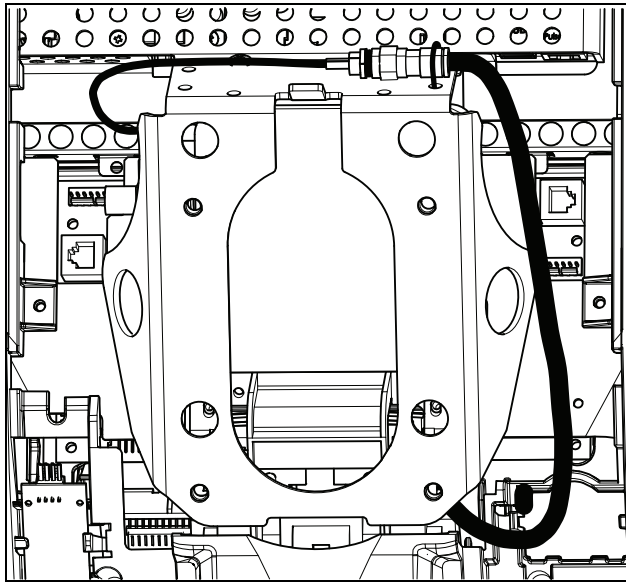


Figure 27: Connecting the television cable

Connecting the Ethernet and Base Unit Data Cables

Both the Ethernet and base unit data cables pass through the cutaway opening at the upper right corner of the back plate and connect to nearby modular jacks in the console. Because of this, it is important to exercise caution when connecting the cables. The black Ethernet cable connects to a jack just underneath the perforated metal bracket at the very top of the opening in the console. The gray base unit data cable connects to a lower jack closer to the back plate.

Refer to the following illustration for the correct position of both cables.

CAUTION: If you connect the base unit data cable to the wrong jack, the equipment will not function.

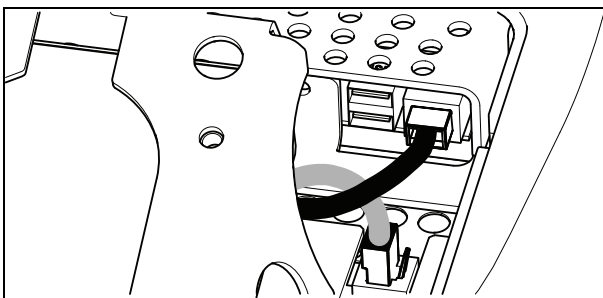


Figure 28: Connecting the Ethernet and base unit data cables

Connecting the Heart Rate Sensor Cable

The heart rate sensor cable passes through the cutaway opening at the upper left corner of the back plate, then down to the small circuit board at the lower left of the console. The following illustration shows how the cable should look once it is installed.

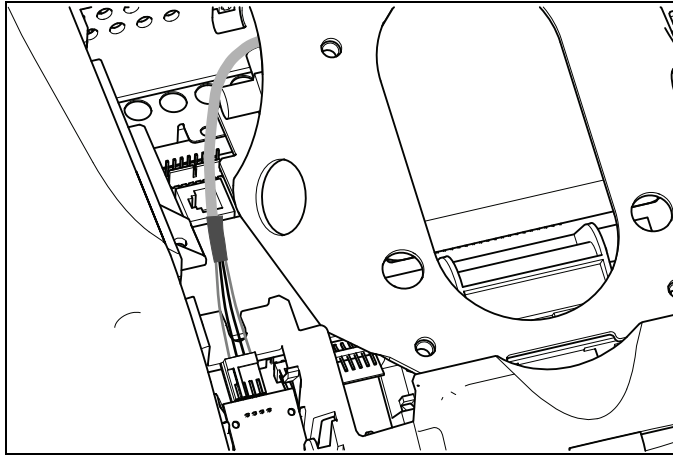


Figure 29: Connecting the heart rate cable

Connecting the Power Cable

Route the power cable through the cutaway opening at the upper left corner of the back plate. In the nearby opening within the steel console framework, locate the socket that matches the power cable plug and connect the power cable to it.

Note: Be sure that the latch on the plug clicks into place on the socket.

The following illustration shows how the cable should look once it is installed.

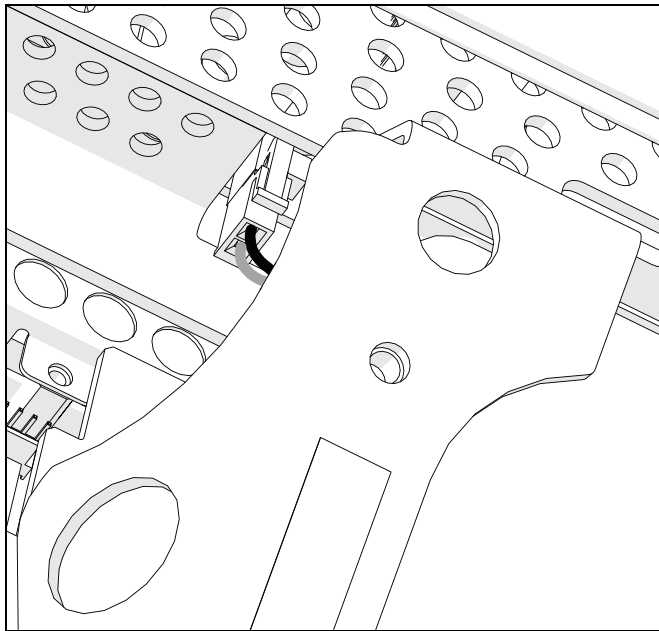


Figure 30: Connecting the power cable

Completing the Console Installation (P80)

Before you complete the final installation steps, double-check the connections you have made. Make sure that all cables are fully and securely connected, and that any unneeded cables are tied back properly.

To complete the installation:

1. Feed extra cable back into the neck tube.
2. Tilt the control console backward (toward yourself) until the tab on the top edge of its back plate slides along the top edge of the console mount and the screw holes align properly.
3. Insert the four $\frac{5}{8}$ -inch flat head screws through the holes in the console mount and thread them into the holes in the back plate on the console. Partially tighten the screws using a $\frac{5}{32}$ -inch hex wrench.
4. Line up the two small tabs at the top of the console's back cover with the slots at the top of the opening in the console case. Insert the tabs into the slots.
5. Insert the remaining tabs on the back cover with the corresponding slots on the console case.
6. Press gently on the edges of the back cover to snap it into place.

Threading the Console Cable Assembly (P30 and P10)

Earlier in the installation, you threaded the necessary cables through the frame of the base unit and out the passthrough opening in the console mount. As you line up the back plate on the console with the console mount, you must make sure that the console cable assembly passes correctly through the openings in both components.

Important: Before you begin the following procedure, remove the rear cover from the control console. Set the cover and its mounting hardware aside for later use.

To thread the console cable assembly:

1. Make sure that as much of each cable as possible passes through the opening in the middle of the console mount on the base unit.
2. Position the console over the console mount.
3. Rest the console on the console mount so that the notch on the bottom of the console's back plate rests on the rectangular hook at the bottom of the console mount, as shown in the following figure.

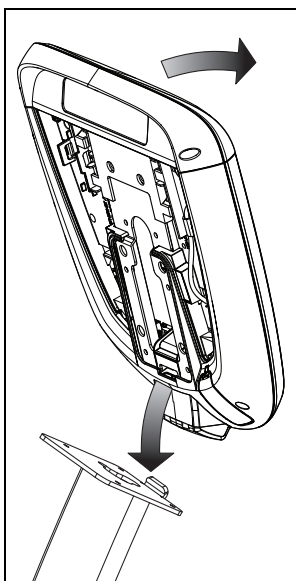


Figure 31: Console positioning on base unit

4. Tilt the console forward until it stops. Use one hand to steady the console in this position, or ask your assistant to do so.

Connecting Cables (P30 and P10)

Important: Pass all cables through the semicircular opening just above the console mount, as shown in the following figure. **Do not** attempt to route any cables through other openings or through the steel channel above the mount.

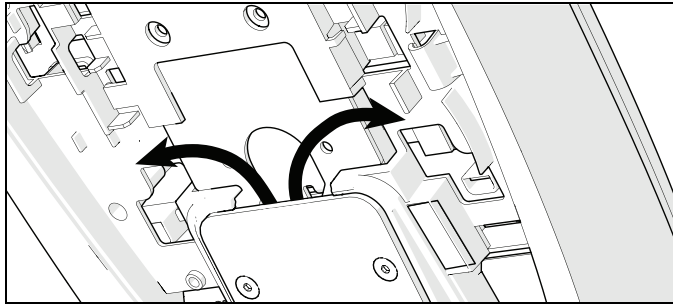


Figure 32: Cable routing from the mount into the console

After the console has been seated, separate the individual cables out of the end of the console cable assembly and attach them to the appropriate circuit connectors inside the console. Refer to the following diagram and table to identify the cables and connectors.

Important: All cables must pass through the opening in the center of the console mount.

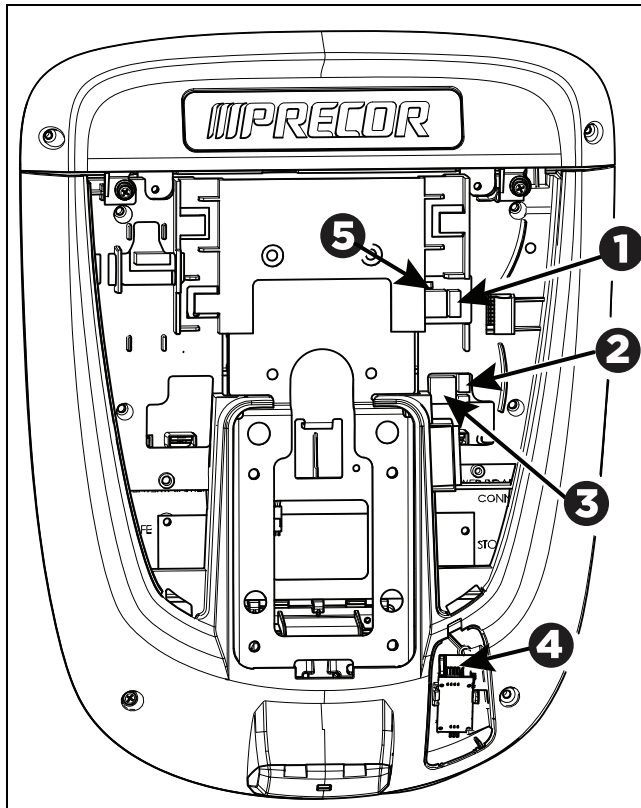


Figure 33: Cable connections, P30 and P10 consoles

Table 3. P30 and P10 internal cable connections

Cable	Connector Type	Circuit Connector Location
Safety key (treadmills only)	Six-contact strip, keyed	❶
Automatic stop sensor (treadmills only)	Four-contact strip, keyed	❷
Data from base unit	Eight-contact modular, on flat gray cable	❸
Heart rate sensors	Four-contact strip, keyed	❹
CSAFE	Eight-contact modular, on flat gray cable	❺

Completing the Console Installation (P30 and P10)

Before you complete the final installation steps, double-check the connections you have made. Make sure that all cables are fully and securely connected, and that any unneeded cables are tied back properly.

To complete the installation:

1. Feed extra cable back into the neck tube.
2. Tilt the control console backward (toward yourself) until the tab on the top edge of its back plate slides along the top edge of the console mount and the screw holes align properly.
3. Insert the four 5⁄8-inch flat head screws through the holes in the console mount and thread them into the holes in the back plate on the console. Partially tighten the screws using a 5⁄32-inch hex wrench.

4. Line up the two small tabs at the bottom of the console's back cover with the slots at the bottom of the console case. Insert the tabs into the slots.
5. Insert the two #8-32 x 1/2-inch Phillips-head screws that you removed earlier into the holes at the top edge of the console's back cover. Tighten the screws fully.

Important: Use caution not to pinch the cables between the back cover and PVS mounting screw heads.

6. Fully tighten the four mounting screws (partially tightened in step 3) using a 5/32-inch hex wrench.

Verifying That the Heart Rate Display Is Operational

To verify that the heart rate display is operational:

1. Begin exercising on the equipment.
2. Grasp both touch-sensitive handlebars.

Note: The heart rate is read within ten seconds. During that time, the heart on the display flashes. You must maintain contact with both metal plates on each handlebar to ensure an accurate reading.
3. Look at the HEART RATE display. After a few seconds, a number appears indicating your heart rate.
4. If a number does not appear in the HEART RATE display, perform the following checks:
 - Verify that the cable connection is properly connected.
 - Repeat the test with a different person. Although the heart rate display is generally highly accurate, it may not work properly for a few individuals.

Note: If you use wireless heart rate monitoring, repeat this test using a chest strap or a wireless pulse simulator instead of grasping the touch-sensitive handlebars.

Maintenance

To keep the equipment functioning properly, perform the minor maintenance tasks in this section at the intervals shown on the maintenance checklist. Failure to maintain the equipment as described in this section could void the Precor Limited Warranty.

DANGER To reduce the risk of electrical shock, always disconnect the equipment from its power source before cleaning it or performing any maintenance tasks. If the equipment is self-powered but also uses the optional power adapter, disconnect the adapter.

Daily Cleaning

Precor recommends that you clean the equipment before and after each exercise session. To remove dust and dirt from the equipment, wipe all exposed surfaces with a soft cloth that you have moistened with one of the following cleaners:

- A solution of 30 parts of water to 1 part of Simple Green® (for more information, visit www.simplegreen.com)
- ENVIR-O-SAFE oxygen enhanced cleaner or multi-task cleaner concentrate, diluted according to the manufacturer's instructions (for more information, visit www.daleyinternational.com)

Alternatively, you can clean the equipment with Athletix fitness equipment cleaning wipes (for more information, visit www.athletixproducts.com)

CAUTION: Read and follow the manufacturer's instructions, particularly dilution instructions, before using any cleaner on Precor fitness equipment. Do not use concentrated cleaners at full strength, or acidic cleaners of any kind; such cleaners weaken the protective finish on the equipment and void the Precor Limited Warranty. Never pour water or spray liquids onto any part of the equipment. Allow the equipment to dry completely before using.

Vacuum the floor underneath the equipment frequently to prevent the accumulation of dust and dirt that can interfere with its operation. Use a soft nylon scrub brush to clean the grooves on equipment with foot pedals.

Daily Inspection

At least once every day, examine the equipment for the following problems:

- Slipping belts
- Loose fasteners
- Unusual noises
- Worn or frayed power cords
- Any other indication that the equipment may be in need of service

Important: *If you determine that the equipment needs service, disconnect all power connections (television, Ethernet, and power) and move the equipment away from the exercise area. Place an OUT OF SERVICE sign on the equipment and make it clear to all patrons and other users that they must not use it.*

To order parts or to contact a Precor authorized service provider in your area, refer to *Obtaining Service*.

Cleaning the P80 Console and Display

The console and screen require little maintenance once installed. Precor recommends that you clean the console and screen before and after each exercise session.

To remove dust and dirt from the console:

- Wipe all exposed surfaces with a soft cloth that you have moistened with a solution of 30 parts of water to 1 part of Simple Green® (for more information, visit www.simplegreen.com).

To clean the screen:

- The manufacturer recommends diluting one part 91% isopropyl alcohol solution in one part water, or using the 91% isopropyl alcohol solution in its original strength. Be sure to follow the solvent manufacturer's precautions and directions when using any solvent.

CAUTION: Potentially hazardous situations associated with the use of isopropyl alcohol may result in minor or moderate injury and property damage. To avoid these situations, follow all instructions and recommendations in the manufacturer's Material Safety Data Sheet and product label.

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 or console's screen.

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

Weekly Maintenance

Perform the following maintenance tasks every week:

1. Disconnect the external power supply.
2. Clean the floor under the equipment using a vacuum cleaner or a damp mop.
3. When the floor is completely dry, reconnect the power (if necessary).
4. Test all console functions, including heart rate monitoring features.
5. Verify that the unit sits squarely on the floor. All of its feet should be touching the floor and the unit should not rock or wobble when in use. If not, re-level it as described in *Leveling the AMT*.

Monthly Maintenance

Perform the following maintenance tasks every month:

1. Wipe the exterior of the console with a damp sponge or soft cloth, and dry with a clean towel. Keep water away from electronic components to prevent electrical shock or damage.
2. Clean the touchscreen using a soft, lint-free cloth dampened with a 91% isopropyl alcohol solution (either as sold or diluted with an equal amount of water).
3. Wipe down the pedal belts using a clean, dry cloth.
Important: Do not use any cleaning solution or solvent on the pedal belts. Over time, cleaners can cause the outer layers of the belts to deteriorate.
4. Remove the access covers. Vacuum out any debris, being careful not to bring the vacuum cleaner nozzle too close to any circuit board (unless your vacuum cleaner is protected against static buildup).
5. Check the belt tension of the primary, brake, and drive belts (refer to the service manual for detailed instructions).
6. Check all fasteners for proper tightness and torque.
7. Replace all covers.
8. Verify that the unit sits squarely on the floor. All of its feet should be touching the floor and the unit should not rock or wobble when in use. If not, re-level it as described in *Leveling the AMT*.

Changing the Belt (AMT Only)

The AMT uses belts to provide motion. These belts eventually wear and must be replaced.

When the belt stride count reaches 90 million, the message **BELTS MUST BE CHANGED SOON** scrolls on the Welcome screen. While this message appears, the AMT operates normally.

Important: *If this message displays on your AMT, please contact Precor Customer Support for assistance.*

When the belt stride count reaches 100 million (and the belt has not been changed), the message **BELTS CHANGE REQUIRED** scrolls continuously on the Welcome screen. The input keys are not functional and the user cannot enter values or begin a workout until the belts are changed. Please contact Precor Customer Support to schedule a belt change.

Storing the Chest Strap

If you purchased the optional heart rate chest strap, store it in a place where it remains free of dust and dirt (for example, in a closet or drawer). Be sure to protect the chest strap from extremes in temperature. Do not store it in a place that may be exposed to temperatures below 32° F (0° C).

To clean the chest strap, use a sponge or soft cloth dampened in mild soap and water. Dry the surface thoroughly with a clean towel.

Moving the Equipment

The equipment is very heavy. If you plan to move it to a new location, obtain the help of an adult assistant and use proper lifting techniques. If the equipment includes roller wheels on one end, use the wheels to reduce the load on yourself and your assistant.

To move the AMT:

1. Disconnect, unplug, and remove all external connections (television, Ethernet, and power).
2. Lift the rear platform molding to remove it.
3. Lift the rear foot supports to tip the AMT forward onto its roller wheels.
4. Push the AMT into its new location.
5. Lower the rear foot supports to the floor, then reattach the rear platform molding.

Long-Term Storage

If you do not expect anyone to use the equipment for a long time, perform the following tasks to prepare it for storage:

- If it has a power cord, disconnect the cord.
- If it has an optional power adapter, connect the adapter to prevent damage to the internal battery.
- Position it so that it will not become damaged and will not interfere with people or other equipment.

Self-Powered Features

Important: This chapter of the manual describes Precor fitness equipment that can operate without being connected to AC power. This includes units equipped with P30 or P10 consoles. However, P80 consoles must be connected to AC power through their power supplies to operate. For this reason, this chapter does not apply to units equipped with P80 consoles.

On self-powered equipment, the system initializes and displays the Welcome screen when a user starts exercising. A minimum rate of motion must be maintained for the banner to appear, as shown in the following table. When a person meets the requirements, the power that is generated allows the equipment to function properly.

Table 4. Minimum requirements for operation

Equipment	Rate of Motion
AMT	40 strides per minute (SPM)
EFX	40 strides per minute (SPM)
Climber	30 steps per minute
Bike	20 revolutions per minute (RPM)

Informational displays appear when the battery is low or when the rate of motion drops below the minimum requirements. The display explains what to do to retain power. If the messages are ignored, the equipment begins shutdown procedures to maintain the charge of the battery. Refer to *Informational Displays Prior to Shutdown*.

An optional power adapter can be purchased and provides sustained power to the equipment. If you plan to change the club settings on a unit equipped with a P30 or P10 console, the power adapter is highly recommended. To purchase the optional power adapter, check with your dealer. Refer to *Obtaining Service*.

Informational Displays Prior to Shutdown

The equipment saves its battery charge by moving into a shutdown mode. If the user does not maintain the minimum rate of motion, a 30-second shutdown process begins.

In this mode, the console displays a countdown indicator and ignores all keypresses. If no movement is detected or the rate of motion remains below the minimum, the indicator changes as the countdown continues.

Note: The user can resume exercising before the countdown period elapses and the workout will continue from the point at which it was paused.

Important: *If the equipment is connected to a CSAFE master device, it follows a slightly different shutdown process. Ten seconds before the equipment shuts down, it ends the exercise session and displays a reset message while it disconnects from the CSAFE master device. It ignores all keypresses during these last ten seconds.*

Symptoms of a Low Battery

If no one has used the equipment for an extended period of time, the battery may need recharging.

Symptoms of a low battery include the following:

- A flickering or erratic display
- Loss of user and program information after the user stops exercising, without any display of a workout summary or a notification of pending shutdown
- Inability to decrease the incline setting (if any)

Important: *To maintain a constant power source, use the optional power adapter.*

Using the Optional Power Adapter

After connecting the power adapter to the equipment, plug the opposite end into the appropriate power source (120 V or 240 V).

CAUTION: When the optional power adapter is in use, make sure that the power supply cord does not create a safety hazard. Keep it out of the way of traffic and moving parts. If the power supply cord or power conversion module is damaged, it must be replaced.

The control console functions differently when the power adapter is connected. Because the power adapter provides a constant source of power, a user can pause for brief periods without initiating shutdown procedures. When the pause time limit expires and the user has not resumed exercising, the console returns to the Welcome screen. The default pause time is 30 seconds for all fitness equipment. Refer to the manual for your control console for instructions on setting or changing the pause time limit. To learn how to install the power adapter, refer to *The Optional Power Adapter Kit*.

The Optional Power Adapter Kit

If you purchase the optional power adapter, you must also purchase the internal cable kit. The kit supplies the cable, bracket, and fasteners that connect the power adapter to the lower electronics board.

CAUTION: The internal cable kit must be installed by authorized service personnel. Do not attempt installation on your own as you could void the Precor Limited Warranty. For more information, refer to *Obtaining Service*.

Important: *If this equipment includes a P80 console, the optional power adapter and the internal cable kit must still be installed to provide continuous power to the base unit and support its internal battery.*

Once the internal cable kit is installed, you can plug the optional power adapter into the equipment. Plug the opposite end into the appropriate power source for your equipment (120 V or 240 V). Review the safety instructions found at the beginning of this manual before using the power adapter.

Replacing the Battery

The equipment's battery is built to last for a long time. However, if you feel that the battery may need replacing, check with an authorized service technician. Refer to *Obtaining Service*.

CAUTION: The battery stored inside the equipment contains hazardous materials and must be disposed of according to Hazardous Waste Regulations. Refer to *Hazardous Materials and Proper Disposal*.



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AMT G2 PAG/OM 301704-341 rev F, en
August 2014