PHILIPS

ReCare

Recumbent stepper

7.0 S

User manual

Please read this entire manual carefully before operating your new recumbent stepper and save it for future use.

Physical therapy **solutions**



PTE7000MS

Register your product and get support at
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Thank you for your recent purchase of the Philips physical rehabilitation recumbent stepper, 7.0 S.
Philips physical therapy and exercise solutions provide simple, reliable products that offer the most relevant feedback to caregivers and users to achieve best-in-class outcomes and empower individuals to build confidence in rebuilding and maintaining healthy lifestyles and keep in touch with their communities.
Your new product has been manufactured by one of the world's leading medical product manufactures. It is backed by one of the most comprehensive warranties in the industry. Through our dealers, distributors and manufacturer's representatives, we will do all we can to provide many years of successful and prosperous ownership. Your warranty and service needs will be addressed either through your regional sales representative or our highly trained service technicians.

It is their responsibility to provide you with both the technical knowledge and access to service personnel to make your ownership experience more informed, and resolve any issues quickly.

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Philips therapy solutions

Delivering better outcomes

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Important safety instructions

⚠ Attention

Read all instructions in this manual before using this device.

⚠ Danger

To reduce the risk of electric shock disconnect your from the electrical outlet prior to cleaning and/or service work.

⚠ Warning

- Do not modify this equipment without authorization of the manufacturer.
- To reduce the risk of burns, fire, electric shock, or injury to persons, install the unit on a flat level surface with access to a 100 to 240-volt AC, 50/60 Hz, 15-amp outlet. The unit should be the only appliance in the electrical circuit.
- Use this device only for it's intended use as described in this manual.
- Keep children away from the device. There are moving parts, obvious pinch points and other caution areas that can cause harm.
- Except as instructed for use of the device, keep hands away from all moving parts.

- Keep the electrical cord away from heated surfaces and out of all travel lanes and do not operate the bike if the cord or plug is damaged.
- Never drop or insert any object into any openings.
- Do not use outdoors.
- To disconnect, turn all controls to the off position then remove the plug from the outlet.
- This device is designed for commercial use and will meet the demands of orthopedic, sports wellness and general conditioning programs.
- Do not attempt to use your bike for any purpose other than for the purpose it is intended.
- The pulse sensors are not medical devices. Various factors, including the user's movement, may affect the accuracy of heart rate readings. The pulse sensors are intended only as exercise aids in determining heart rate trends in general.
- Heart rate monitoring system may be inaccurate. Over exercise may result in injury or death. If you feel faint stop exercising immediately.
- Ensure there is a minimum space on the sides of the bike of two feet for proper operation, easy access and to prevent possible injuries to others standing or walking nearby. There should be a minimum of at least one foot of free space at the front and rear of the unit.

- Do not use any after market parts on this device, other than those recommended by Philips.
- Do not attempt any servicing or adjustments other than those described in this manual. All else must be left to trained service personnel familiar with electro-mechanical equipment and authorized under the laws of the country in question to carry out maintenance and repair work.
- Installation and assembly of this product should be performed by trained personnel only.
- To avoid injury please observe all minimum and maximum seat adjustment settings.

Important electrical information

⚠ **Warning**

- Never remove any cover without first disconnecting AC power. If voltage varies by 10% or more outside of specified range (100 to 240V), the performance of your device may be affected. Such conditions are not covered under your warranty. If you suspect the voltage is low, contact your local power company or a licensed electrician for proper testing.
- Never expose this bike to rain or moisture. This product is not designed for use outdoors, near a pool or spa, or in any other high humidity environment.
- The 7.0 S is not protected against the ingress of water or particulate matter.
- The 7.0 S is not suitable for use in an oxygen rich environment.
- If not stated otherwise Philips devices are designed for operation in normal climatic surroundings:
  - Temperature: + 10° ... + 36° C
  - Relative humidity: 30 ... 90 % (non condensing)
  - Air pressure: 700 ... 1060 mbar
  - Maximum operating altitude: approx. 10,000 feet (3000m), with out pressurization
  - Transport and store the devices at a temperature of – 20° ... + 50° C.

Important operation instructions

- Never use the device during an electrical storm. Surges may occur in your facility power supply that could damage the unit's components.
- All users should have medical clearance before starting any rigorous exercise program. This is especially important for persons with a history of heart disease or other high risk factors.
- The user should adjust the seat to a position that is comfortable during exercise. The console has a program in the setup menu that can aid in setting the correct seat position.
- Start at a safe exercise level. Do not allow the user to be over exerted. Symptoms to watch for, but not limited to, are: shortness of breath or difficulty in breathing, pain or discomfort, feeling faint.
- Make sure the user warms up and cools down properly to avoid over taxing the cardio vascular system. Allow three to five minutes of warm up and cool down during each exercise session.

Application specification

Medical purpose

- Patient warm up before physical therapy session.
- Have the patient pedal to improve range of motion after knee/hip/ankle surgery.
- Allow patients to perform cardiovascular exercise.

Intended patient population

- There is no particular restriction on age, gender, height and nationality.
- Maximal patient's weight is 200kg.
- Patient must be ambulatory.
- Patient should have medical clearance before starting any rigorous exercise program. This is especially important for person with a history of heart disease or other high risk factors.

Intended part of the body or type of tissue applied to or interacted with:

- Contact site: hands, feet, and trunk
- Condition: should not have any trauma

Intended conditions of use

- Environment including hygienic requirements
  - General: intended for indoors use. This product is not designed for use outdoors, near a pool or spa, or in any other high humidity environment.
  - Conditions of visibility:
    ①Ambient luminance: standard ambient room lighting is sufficient.
    ②Viewing distance: 1 m
    ③Viewing angle: 120°
  - Physical
    Temperature range: 10°C ~ 36°C
    Relative humidity range: 30% R.H. ~ 90% R.H., non condensing
  - Hygienic requirements: there is no particular restriction on hygienic requirements.
- Frequency of use
  - Depend《nt on therapist's plan.
- Location
  - Intended for hospital use, clinic use, home use and research in academic institutions.
- Mobility
  - The product is intended to be fixed.

Operating principle

The patient pushes the pedals with their feet and the arms with their hands. The operator can increase the workload using the Up and Down Key on the console. When the workload change is requested a gear motor moves permanent magnets closer or further from the aluminum flywheel creating more or less resistance.

Significant physical characteristics

Please refer to **Features** of 7.0 S manual.

Significant performance characteristic

Please refer to ”**Unique uses for the 7.0 S**” in Operating the 7.0 S.

Intended user profile

Intended operator

- There is no particular restriction on age, gender, height, weight, ability and culture.
- Education: University or above
- Knowledge: The operator should read the user's manual before use.
- Discipline: The operator should receive training from the manufacturer before use.
- Experience: The operator must have experience in physical therapy.
- Background: The operator must be a major in physical therapy.
- Professional competence: The operator should have the physical therapist license.

Intended installer

- There is no particular restriction on age, gender, height, weight, ability and culture.
- Education: High School or above
- Knowledge: The installer shall be able to manipulate this product properly.
- Discipline: The installer shall be given a specific training by manufacturer.
- Experience: The installer must have experience in product assembly and disassembly.
- Background: The installer must be electro-mechanically trained.
- Professional competence: Normal vision ability required.

Operating the 7.0 S

The recumbent stepper is intended to be used in aiding in the physical rehabilitation process for patients with orthopedic and neurological problems. Also used in sports medicine, wellness and general conditioning programs.

Typical applications for this type of product are

- Patient warm up before physical therapy session.
- Have the patient pedal to improve range of motion after knee/hip/ankle surgery.
- Allow patients to perform cardiovascular exercise.

Unique uses for the 7.0 S

- Self adjustable step length allows patients to pedal in smaller range of knee motion, from 5 degrees to full range.
- Arms are linked to the foot pedals for ease of coordination. Arms can also be used alone without stepping with feet.
- Symmetry program measures balance between left and right pedal and/or arm stroke. Graphical Bio-feedback display motivates patients to maintain even power symmetry between left and right legs. If measuring arms only the graph and power readings will be reversed.

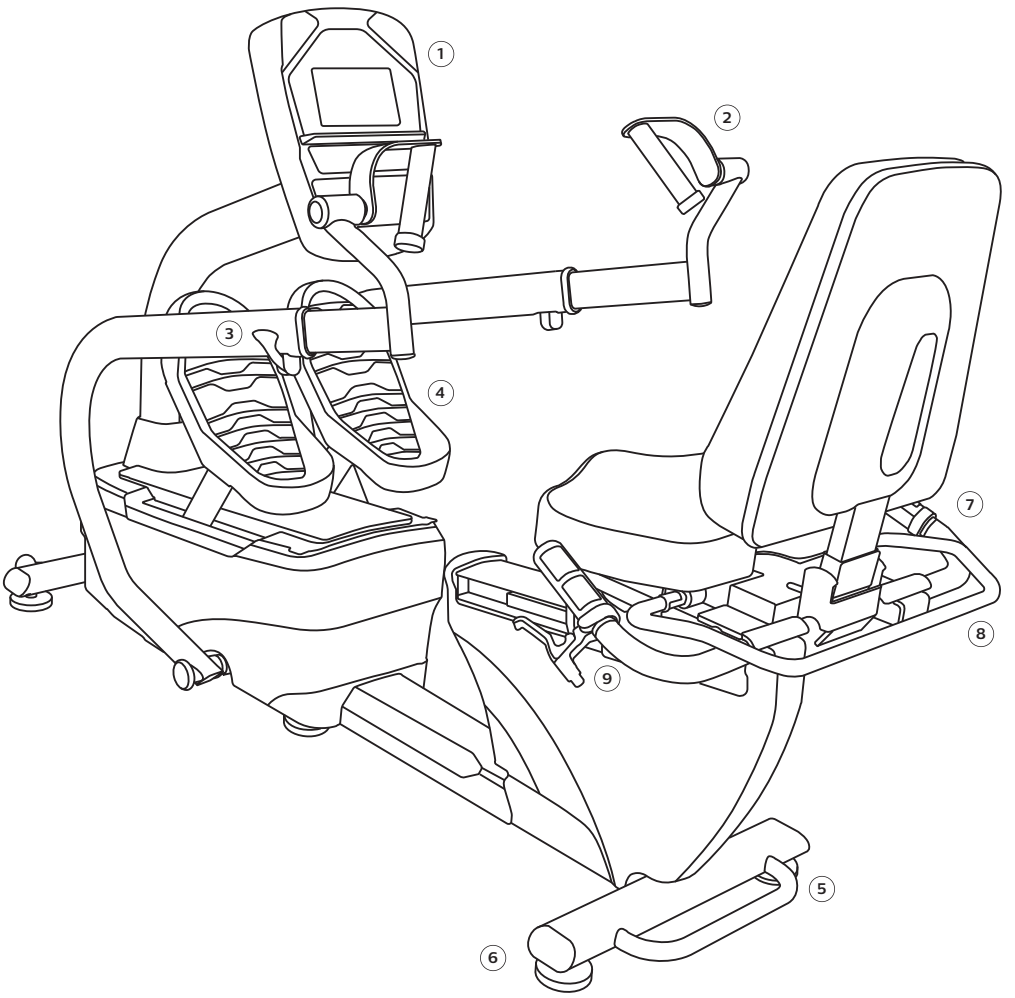
Other features of the 7.0 S

- Work range up to 750 watts.
- Indexed seat positioning accommodates users from 147 cm to 200 cm (4’ 10” to 6’ 7”)
- Heart Rate monitoring using the hand grips or optional heart rate chest-strap.

Heart rate measurements are not for medical use

The heart rate function on this product is not a medical device and should not be relied on when accurate readings are necessary. Some people, including those in a cardiac rehab program, may benefit from using an alternate heart rate monitoring system like a chest or wrist strap. Various factors, including movement of the user, may affect the accuracy of your heart rate reading. The heart rate reading is intended only as an exercise aid for measuring heart rate trends in general.

Features



7.0 S Recumbent stepper

Parts and adjustments
1. Electronic console
2. Upper body rotating handles
3. Quick release lever
4. Cushioned footplates with straps
5. Lifting handle for transport
6. Leveling glides
7. Seat angle adjustment
8. Seat swivel adjustment
9. Seat position adjustment

Optional parts (not shown)
2.2 Lower extremity bi-lateral stabilization set
2.3 Hand / wrist stabilization set

The 7.0 S is an easy product to set up and use, from the adjustments to the intuitive interface. This section explains how to set up, adjust and operate your 7.0 S.

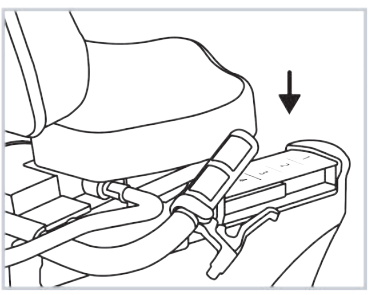
Leveling the 7.0 S

- Once the 7.0 S is assembled, and placed on a flat level floor, it may be necessary to adjust the leveling glides on the bottom of the unit to ensure proper stability of the 7.0 S. Use a 1/2" wrench to loosen the top nut of the levelers. Make sure the two center levelers are screwed all the way in. Adjust the 4 corner levelers by hand as necessary to remove any wobble in the unit. Unscrew the 2 center levelers until they touch the floor. Then tighten all the top nuts against the bottom of the stabilizer tubes. Make sure the bottom nut remains cinched against the leveling foot.

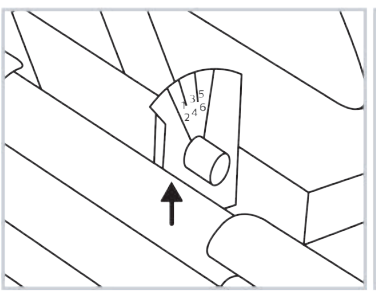
Connecting to A.C. power

- The 7.0 S uses a universal switching power supply. You can plug the 7.0 S power supply into any A.C. power source from 100 to 240 volts, 50 to 60 Hz. The A.C. input is located in the front of the unit.

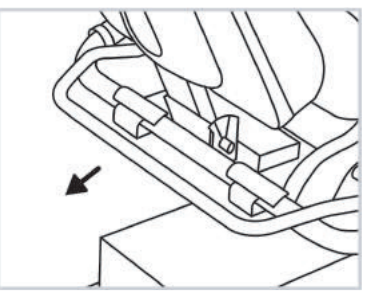
Seat adjustments



Seat position number lines up with front edge of seat carriage



Seat back angle indicator



Lift handle to rotate seat. Lower handle to activate latch

Adjusting the seat fore / aft position

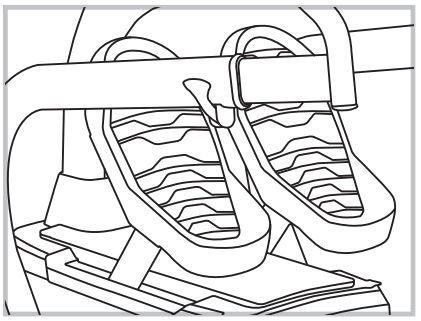
- Squeeze the brake handle located on the left side handle bar. Move the seat to the desired position and lower the handle. Move the seat slightly until the seat lock clicks in place. There is a numbered scale located on the aluminum seat slide tube for repeatable settings. Seat position is indicated by the front of the seat carriage lining up with the number on the scale.

Adjusting the seat back angle

- To adjust the seat back angle, squeeze the brake handle located on the right side handle bar and move the seat back to the desired position. There is a numbered scale located just below the seat back cushion for repeatable settings.

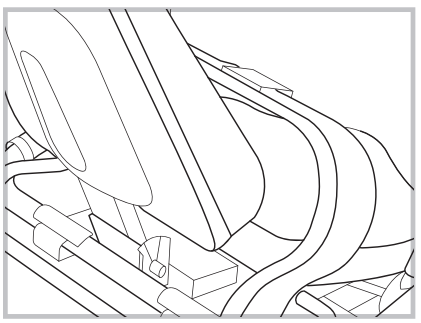
Rotating the swivel seat

- Lift the handle behind the seat to disengage the latch. Rotate the seat to the desired position; lower the handle when approaching position to activate latch. The seat will latch into place every 45 degrees.



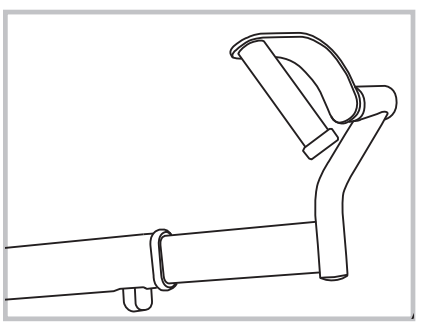
Pedal strap adjustment

- The ankle and foot Velcro straps are easily opened and closed for quick patient set up. Remove the ankle strap from the chrome ring. Loosen the foot strap enough so the patient's foot can slide under. Once the foot is in the correct position reattach the ankle strap and adjust both straps for a snug fit.



Seat belt adjustment

- Simply snap the buckles together and adjust the strap to the desired fit.

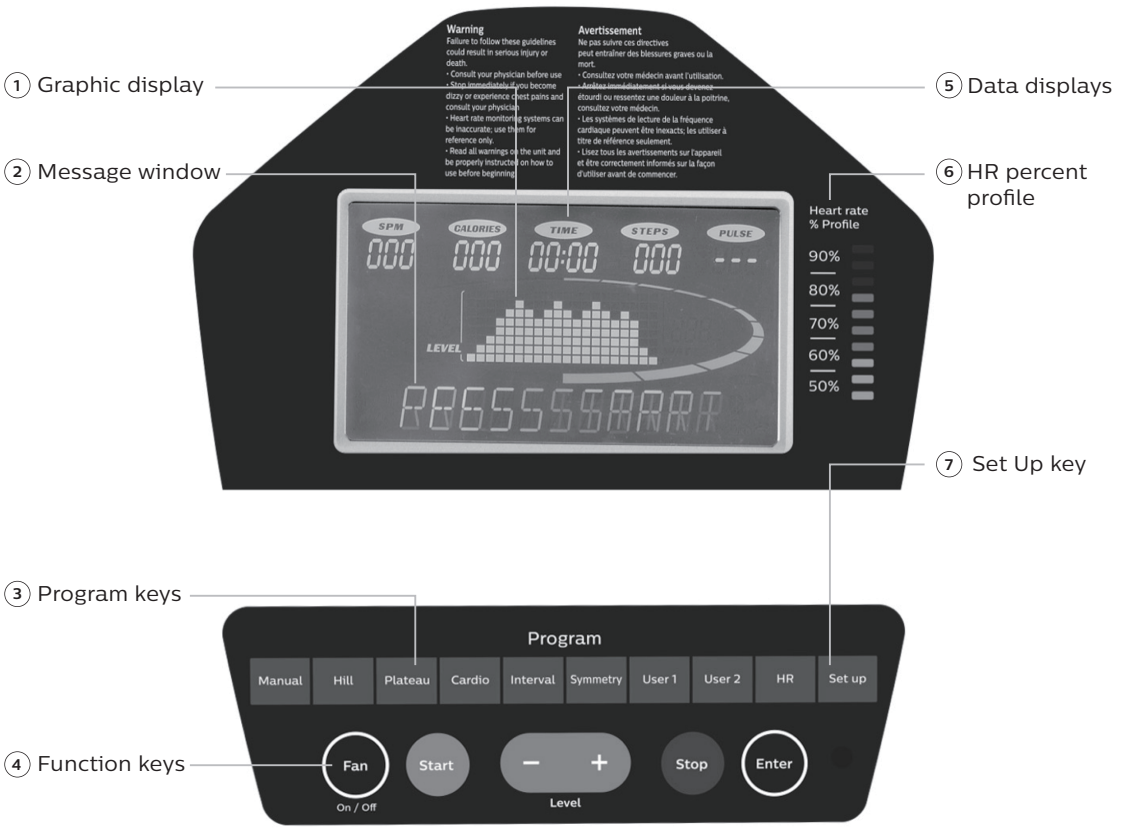


Rotating handle

- Handles rotate to allow wrist patients to use upper body without discomfort.

Operation of your new stepper

7.0 S electronic console



Power on

When initially powered on the console will perform an internal self-test. During this time all the lights will turn on for a short time. The message window will then show a software version (i.e. VER 1.0) and the Time window will display the total hours the unit has been used to date.

The odometer will remain displayed for only a few seconds then the console will go to the start up display, also known as idle Mode. The message window will be scrolling the start up message. You may now begin to use the 7.0 S.

The console will automatically power down after 20 minutes of inactivity. Press any key to wake the console up again.
Always disconnect the main power when the 7.0 S is not in use.

Console operation

Set up key

The set up key function will allow you to set seat and arm adjustments for various patient heights and customize the settings of the 7.0 S. When the Set Up key is pressed the first option in the menu appears. Use the up/down arrows to scroll through the menu and press the enter key to select an option.

Set up menu

- Position (seat and arm position setting)
  User may input their height in inches (or centimeters if unit is set to metric measurements, see page 33) and the software will calculate the position for the seat and arms. This feature is intended to aid in patient set up but may not be the final settings as patient's body symmetry may vary slightly.
- Track or step graph
  The segmented track surrounding the profile display area can be set to display as a track or a foot position indicator. During any program press the Symmetry key to switch the display.

Quick start

This is the quickest way to start an exercise session. After the console powers up you just press the start key to begin; this will initiate the quick start mode. In quick start, the time will count up from zero, all workout data will start to accrue and the workload may be adjusted manually by pressing the up or down key. The dot matrix will display a workload level at the lowest resistance. As you increase the workload more rows will light indicating a harder workout. The unit will get harder to pedal as the rows increase.

The graphic display has 20 columns of lights with each column representing 1 minute in the quick start program (time per column can be modified in other programs). At the end of the 20th column (or 20 minutes of work) the display will wrap around and restart at the first column again. There are 20 levels of resistance displayed in 8 rows of lights.

Basic information

The graphics display (dot matrix) is used for displaying work profiles and the symmetry graph. When you begin a program the dot matrix will display a workload profile. The profile indicates the different resistance level changes during a program. The peak resistance level can be set during program setup. The peak setting can be adjusted during your workout also. When adjusting the peak level during a program the profile picture will not change, but the message window will display your new level setting.

The data display windows provide exercise information during a session. Information includes: spm (steps per minute), calories, time, steps (total step count) and pulse. Resistance level and watt measurements are displayed on either side of the graphic display.
The message window is the main display for programming instructions and relevant measurements during a program. The measurement data shown varies depending on the program. Measurements include: average watts (left and right leg), METS, symmetry and segment time.

To the right of the Dot matrix display is a Heart Rate Bar Graph. Simply grasping the hand pulse sensors, or wearing a heart rate chest belt transmitter, will start the heart rate measurement function (this may take a few seconds). The Pulse window will display the heart rate in beats per minute. The Bar Graph represents the percentage of maximum heart rate. NOTE: Enter the correct age in Set Up for the Bar Graph to be accurate. Refer to Heart Rate section for details about these features.

Function keys

The stop/reset key provides several functions.

- Pressing the stop/reset key once during a program will pause the program. To resume the exercise session just press the start key.
- If the stop/reset button is pressed twice during a workout the program will end and a summary of information for the exercise session will be displayed.
- If the stop/reset key is held down for 3 seconds the console will perform a complete reset.
- During data entry for a program the stop/reset key performs a previous screen function. This allows you to go back one step in the programming each time you press the stop/reset key.
- The enter key is used for entering data during programming and is also used to scroll through different data in the message window during exercise.

The program keys may be used to preview each program when in the idle mode. Press each program key to preview what the program profile looks like. To begin a program press the corresponding program key and then press the enter key to select the program.
The program keys also function as a number key pad when you are in the data-setup mode. If you are entering new data such as time, age, weight etc., you can use these keys to enter the numbers quickly. The manual key would enter the number 1, hill key is number 2, etc.

Selecting and customizing programs

When you enter a program you have the option of modifying the settings. If you want to begin without entering new settings just press the start key. This will bypass the programming of data and take you directly to the start of the program. If you want to change the settings just follow the instructions in the message window. If you start a program without changing the settings the data from the set up menu will be used.

Manual

The manual program works as the name implies, manually. This means that you control the workload yourself, not the computer. To start the manual program follow the instructions below or just press the manual button then the enter button and follow the directions in the message window.

- Press the manual key then press the enter key.
- The message window will prompt you to enter the age, weight and time for the program. You may enter the age using the up and down keys or the numeric key pad then press the enter key to accept and proceed to the next screen.
- Now you are finished editing the settings and can begin the program by pressing the start key. You can also go back and modify your set tings by pressing the enter key. Note: at any time during the editing of data you can press the stop key to go back one level, or screen.
- During the manual program you will be able to scroll through the data in the message window by pressing the enter key.
- When the program ends you may press start to begin the same program again or stop to exit the program, or you can save the program you just completed as a custom program by pressing the user keys and following the instructions in the message window.

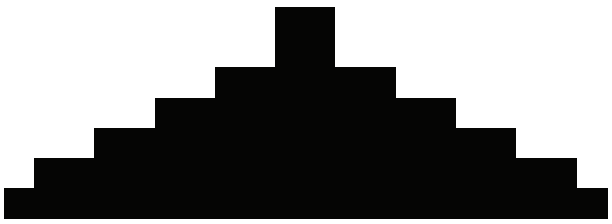
Preset programs

The semi-recumbent seated stepper has four preset exercise programs that have been designed for a variety of workout goals. The initial built-in level of difficulty for each program is set to a relatively easy level. You may adjust the level of difficulty (max level) for each program before beginning.

The profiles shown in the dot matrix are merely pictures of the whole profile and will not change in size when the work level keys are pressed. When setting up a program you will enter the maximum resistance setting for the peak of the profile. During the program the resistance levels will change as the profile progresses. When the level up key is pressed to request more resistance the profile picture will not change, but the workload will increase. The message window will display the level setting for the current segment and also the maximum level for the peak of the profile. Pressing the work keys actually change the peak level of the program not the current segment level. You may need to change the peak setting several times before the current segment increases.

Hill

The Hill program simulates going up and down a hill. The resistance in the pedals will steadily increase and then decrease during the program.



Plateau

The Plateau program provides a steady state exercise with warm up and cool down periods.



Cardio

The Cardio program is designed to increase Cardio vascular function. This is exercise for heart and lungs. It will build up heart muscle and increase blood flow and lung capacity. This is achieved by incorporating a higher level of exertion with slight fluctuations in work.



Interval

The Interval program takes you through high levels of intensity followed by periods of low intensity. This program increases endurance by depleting oxygen levels followed by periods of recovery to replenish oxygen. The cardio vascular system gets programmed to use oxygen more efficiently this way.



Programming preset programs

- Select the desired program button then press the enter key.
- The message window will prompt you to enter the age, weight, time and max level for the program. You may enter the age using the up and down keys or the numeric key pad then press the enter key to accept and proceed to the next screen. Max level refers to the top resistance level setting for the program.
- Now you are finished editing the settings and can begin the program by pressing the start key. You can also go back and modify your settings by pressing the enter key. Note: at any time during the editing of data you can press the stop key to go back one level, or screen.
- During the manual program you will be able to scroll through the data in the message window by pressing the enter key.
- When the program ends you may press start to begin the same program again or stop to exit the program, or you can save the program you just completed as a custom program by pressing the user keys and following the instructions in the message window.

User programs

The User 1 & 2 programs allow you to build and save a custom program. You can build your own custom program by following the instructions below or you can save any other preset program you complete as a custom program. The User program allows you to further personalize it by adding your facility name.

Designing and saving a new program

- Press either user key. The message window will show a welcome message; if you had previously saved a program the message will contain the name you gave it. Then press the enter key to begin programming.
- When you press enter, the message window will show “name – a”, if there is no name saved. If the name “custom workout” had been previously saved the message window will show “name – custom workout” and the c in custom will be blinking. If there is a name saved you can change it or you may press the stop key to keep the name and continue to the next step. If you want to enter a name use the up and/or the down key to change the first letter then press enter to save the first letter and continue to the next letter. When you have finished entering the name press the stop key to save the name and continue to the next step.
- The message window will ask you to enter an age. You may enter an age, using the up and down keys or the numeric key pad, then press the enter key to accept the new number and proceed on to the next screen.
- You are now asked to enter a weight. You may adjust the weight number using the up and down keys or the numeric key pad then press enter to continue.
- Next is time. You may adjust the time and press enter to continue.
- Now you are asked to adjust the max level. This is the peak exertion level you will experience during the program. Adjust the level and then press enter.
- Now the first column will be blinking and you are asked to adjust the level for the first segment of the workout. When you finish adjusting the first segment, or if you don’t want to change, then press enter to continue to the next segment.
- The next segment will show the same level as the previously adjusted segment. Repeat the same process as the last segment then press enter. Continue this process until all twenty four segments have been set.

- The message window will then tell you to press enter to save the program. After saving the program the message window says “new program saved” then will give you the option to start or modify the program. Pressing stop will exit to the start up screen.
- During the facility program you will be able to scroll through the data in the message window by pressing the enter key.

Running a saved program

- Press user key then enter
- Enter time then press start to begin program.

Symmetry

The symmetry program may aid in achieving a more balanced exercise stroke for patients with bi-lateral deficiencies, such as stroke patients and post-op knee patients. The program will measure the left and right power through the pedal range. The dot matrix display will show a graph indicating the leg power symmetry so the user has a visual feedback to aid in improving the involved limb's strength. The program will also work for upper body only. When pushing the handles, the graph will be reversed (left side will actually be displaying right arm information). It will be correct if the patient is pulling.

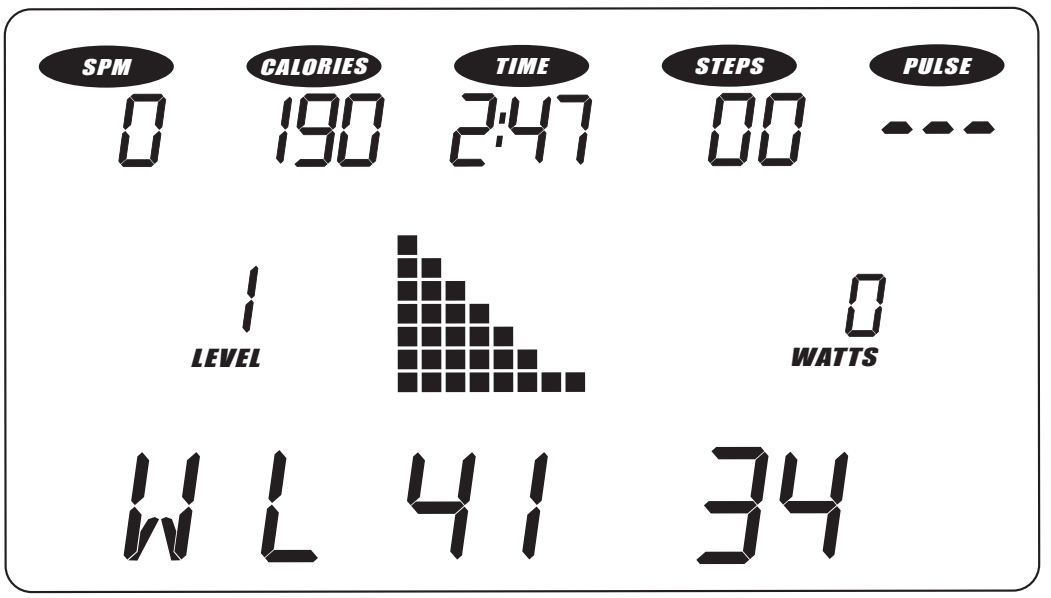
- Press the symmetry key then press the enter key.
- The message window will prompt you to enter the age, weight and time for the program. You may enter the age using the up and down keys or the numeric key pad then press the enter key to accept and proceed to the next screen.
- Now you are finished editing the settings and can begin by pressing the start key. You can also go back and modify your settings by pressing the enter key. Note: at any time during the editing of data you can press the stop key to go back one level, or screen. During the program you will be able to scroll through the data (watts, symmetry, METS) in the message window by pressing the enter key.

For best results

The symmetry program starts at level 1 and the resistance needs to be increased manually by pressing the up arrow. Make sure to set the resistance to a level where the patient is doing enough work to generate a meaningful measurement. It is recommended to set the resistance as high as the patient can perform without discomfort, but low enough so they can complete full pedal strokes. Very low resistance settings result in erratic or inconsistent measurements.

Biofeedback graph

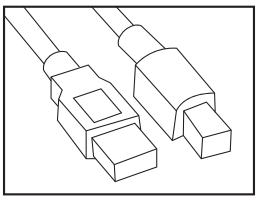
Below is a sample picture showing the symmetry graph. In the message window there is an average watt measurement and it is indicating that the left leg is producing more power than the right leg, 41 vs. 34 watts. The graph reflects the higher wattage of the left leg. If the power is equal in both legs only two dots would be lit on the bottom center of the graphic screen. Press the Enter key to view the Symmetry data.



Note: the symmetry program uses a power table and velocity measurements to generate the watt readings; they are not from direct force measurements.

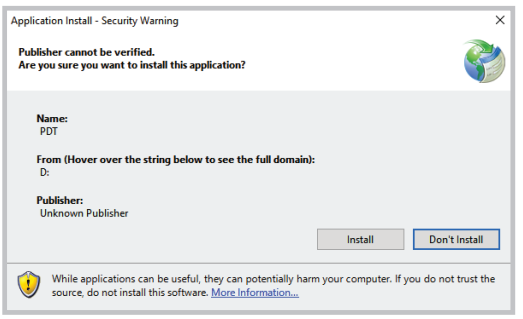
Data transfer software instructions

- Works with newer 7.0 T, 7.0 S, 7.5 S, 7.0 R and 7.0 U consoles with USB ports on the back
- The software works with Windows 10, 7 and XP series, with .Net Framework 2.0.
- The output for the data is in a .CSV file format.
- http://www.dyaco.com/software
  Please follow the website instructions to download software.
- Use a USB cable (type a to type b, illustrated to the right) to connect the product and the computer.



Step 1.

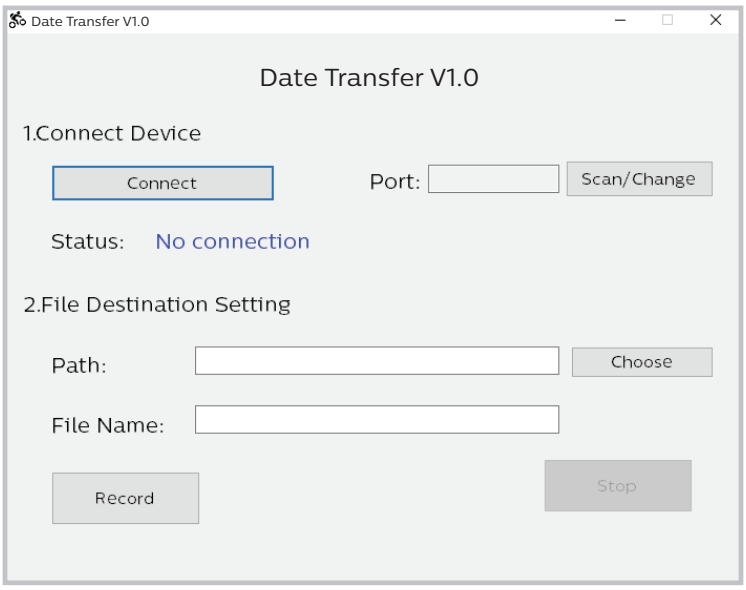
Download the software from the link (http://www.dyaco.com/software) and connect the console of the product to the computer via USB cable. Click "Install" when you see the pop-up window as below during installation.



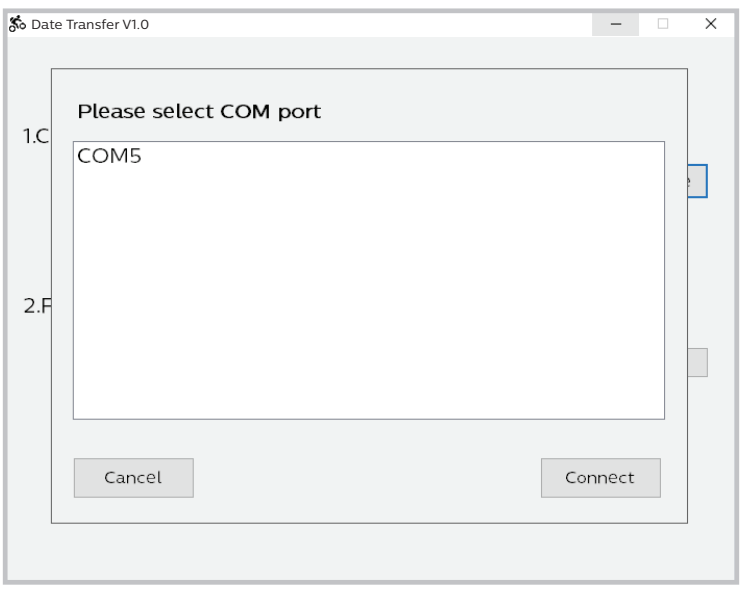
Step 2.

Click "Connect" or "Change" to select the connecting port (left figure). After clicking the "Change", or connecting to the wrong port, the COM port selection window pops up (right figure). Select the correct COM port and click "Connect".

Selecting COM port

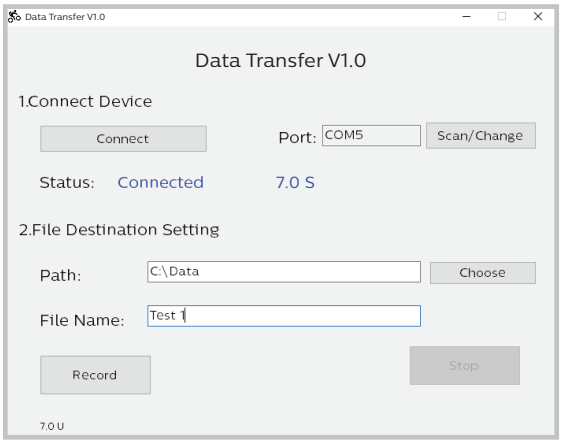


Pop-up COM port selection window

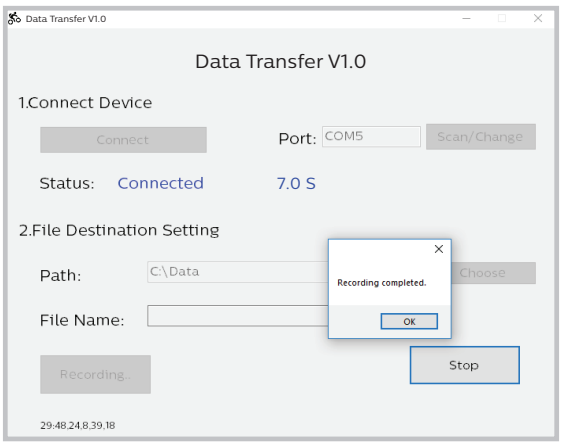


Step 3.

After the status shows “Connected” and the product model name to the right, choose the file path and create the file name for saving the data. Click the “Record” button to start collecting data. Click “Stop” or quit the program from the console of the product to stop the data collection process. The saved data can be found at the assigned destination.



Click record button



Recording complete

Step 4.

The file is saved in .CSV format, which can be opened by Microsoft Excel. Example shown below.

Model:	7.0 S	Date & Time:	2017/8/1 10:02	Program:	MANUAL			
Program time	SPM	Steps	Level	Watt	Left Watt	Right Watt	Symmetry	L/R
00:01	0	0	1	0	0	0	0	R
00:02	0	0	1	0	0	0	0	R
00:03	0	0	1	4	0	4	200	R
00:04	0	0	1	4	0	4	200	R
00:05	29	1	1	8	8	4	66	L
00:06	48	2	1	14	8	9	11	R

Using a heart rate transmitter

Note: The chest strap transmitter is not a standard part, but is a separate purchase. Most transmitters that operate at 5kHz frequency will also work.

How to wear your wireless chest strap transmitter?

- Attach the transmitter to the elastic strap using the locking parts.
- Adjust the strap as tightly as possible as long as the strap is not too tight to remain comfortable.
- Position the transmitter with the logo centered in the middle of your body facing away from your chest (some people must position the transmitter slightly left of center). Attach the final end of the elastic strap by inserting the round end and, using the locking parts, secure the transmitter and strap around your chest.
- Position the transmitter immediately below the pectoral muscles.

- Sweat is the best conductor to measure very minute heart beat electrical signals. However, plain water can also be used to pre-wet the electrodes (2 black square areas on the reverse side of the belt and either side of transmitter). It's also recommended that you wear the transmitter strap a few minutes before your work out. Some users, because of body chemistry, have a more difficult time in achieving a strong, steady signal at the beginning. After "warming up", this problem lessens. As noted, wearing clothing over the transmitter/strap doesn't affect performance.
- Your workout must be within range - distance between transmitter / receiver – to achieve a strong steady signal. The length of range may vary somewhat but generally stay close enough to the console to maintain good, strong, reliable readings. Wearing the transmitter immediately against bare skin assures you of proper operation. If you wish, you may wear the transmitter over a shirt. To do so, moisten the areas of the shirt that the electrodes will rest upon.

Note: The transmitter is automatically activated when it detects activity from the user's heart. Additionally, it automatically deactivates when it does not receive any activity. Although the transmitter is water resistant, moisture can have the effect of creating false signals, so you should take precautions to completely dry the transmitter after use to prolong battery life (estimated transmitter battery life is 2500 hours). If your chest strap has a replaceable battery the replacement battery is CR2032.

Erratic operation

Caution! Do not use the 7.0 S for heart rate control unless a steady, solid actual heart rate value is being displayed. High, wild, random numbers being displayed indicate a problem.

Areas to look at for interference, which may cause erratic heart rate

- Microwave ovens, TVs, small appliances, etc.
- Fluorescent lights.
- Some household security systems.
- Perimeter fence for a pet.
- Some people have problems with the transmitter picking up a signal from their skin. If you have problems try wearing the transmitter upside down. Normally the transmitter will be oriented so the logo is right side up.
- The antenna that picks up your heart rate is very sensitive. If there is an outside noise source, turning the whole machine 90 degrees may de-tune the interference.
- If there is another person wearing a chest strap within 1 meter, it will interfere.
- If you continue to experience problems contact your dealer.

Heart rate program operation

To start the HR program follow the instructions below or just press the HR key then the Enter button and follow the directions in the message window.

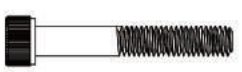
- Press the HR key then press the Enter key.
- The message window will ask you to enter your Age. You may enter your Age, using the Up and Down keys or the numeric key pad, then press the Enter key to accept the new number and proceed on to the next screen.

- You are now asked to enter your Weight. You may adjust the Weight number using the Up and Down keys or the numeric key pad, then press enter to continue.
- Next is Time. You may adjust the Time and press enter to continue.
- Now you are asked to adjust the Heart rate Level. This is the heart rate level you will experience during the program. Adjust the level and then press enter.
- Now you are finished editing the settings and can begin your workout by pressing the Start key. You can also go back and modify your settings by pressing the Enter key. NOTE: At any time during the editing of data you can press the Stop key to go back one level, or screen.
- If you want to increase or decrease the workload at any time during the program press the Up or Down key. This will allow you to change your target heart rate at any time during the program.
- During the HR program you will be able to scroll through the data inthe message window by pressing the adjacent Display key.
- When the program ends you may press Start to begin the same program again or Stop to exit the program or you can save the program you just completed as a custom user program by pressing the Facility key and following the instructions in the message window.

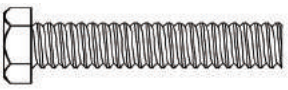
Assembly instructions for 7.0 S

Hardware

Step 1.



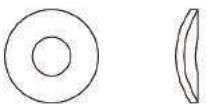
#129- M6 x 40L
(2PCS)



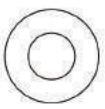
#132- 3/8" x 2"
(4PCS)



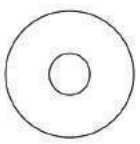
#135- 5/16" x 1-1/4"
(1PC)



#185-5/16" x 19 x 1.5T
(4PCS)



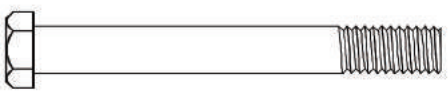
#170-3/8" x 30 x 3T
(8PCS)



#173-8.5 x 26 x 2T
(2PCS)



#181-M5 x 15L
(12PCS)



#140-3/8" x 3-1/4"
(2PCS)



#190-3/8" x 7T
(6PCS)

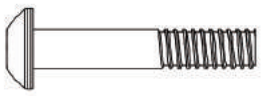


#193-5/16" x 6T
(1PC)

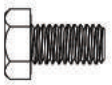


#187-M6 x 6T
(2PCS)

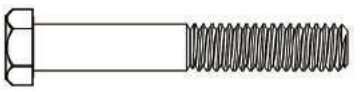
Step 2.



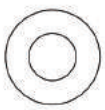
#152-5/16" x 1-3/4"
(2PCS)



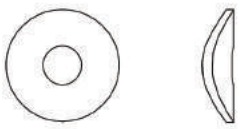
#153-M8 x 16L
(2PCS)



#154-3/8" x 2-1/2"
(2PCS)



#170-3/8" x 30 x 3T
(2PCS)



#184-8 x 23 x 1.5T
(2PCS)



#190-3/8" x 7T
(2PCS)



#193-5/16" x 6T
(2PCS)

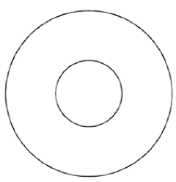


#194-3/8" x 2T
(2PCS)

Step 3.



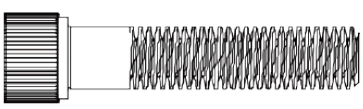
#122-M6 x 25L
(4PCS)



#167-10 x 25 x 2T
(2PCS)

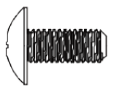


#190-3/8" x 7T
(2PCS)

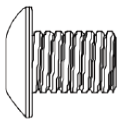


#197-3/8" x 1-3/4"
(2PCS)

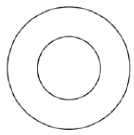
Step 4.



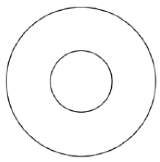
#143-M5 x 12L
(4PCS)



#216-3/8" x 5/8"
(8PCS)

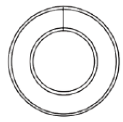


#217-3/8" x 19 x 1.5T
(4PCS)





#218-3/8" x 23 x 3.0T
(4PCS)





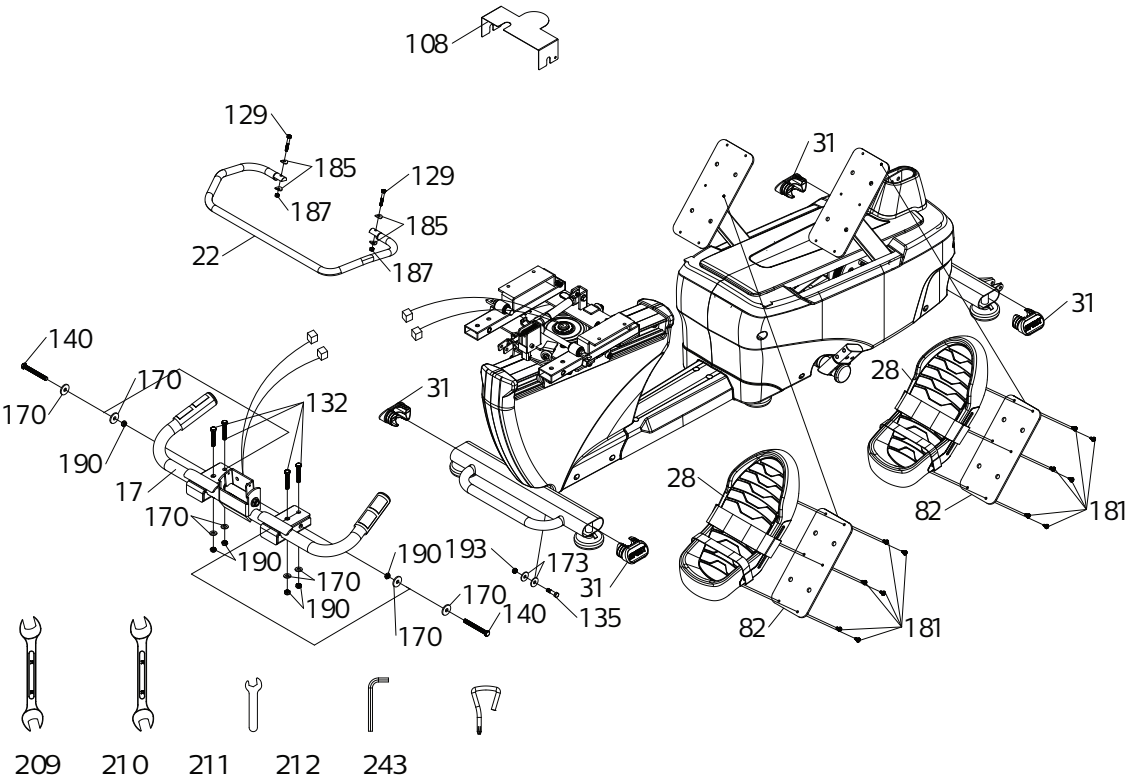
#243-M10 x 2T
(8PCS)

Assembly

Read each step's instructions and study the drawing carefully to become familiar with all the parts and procedures before beginning each step.

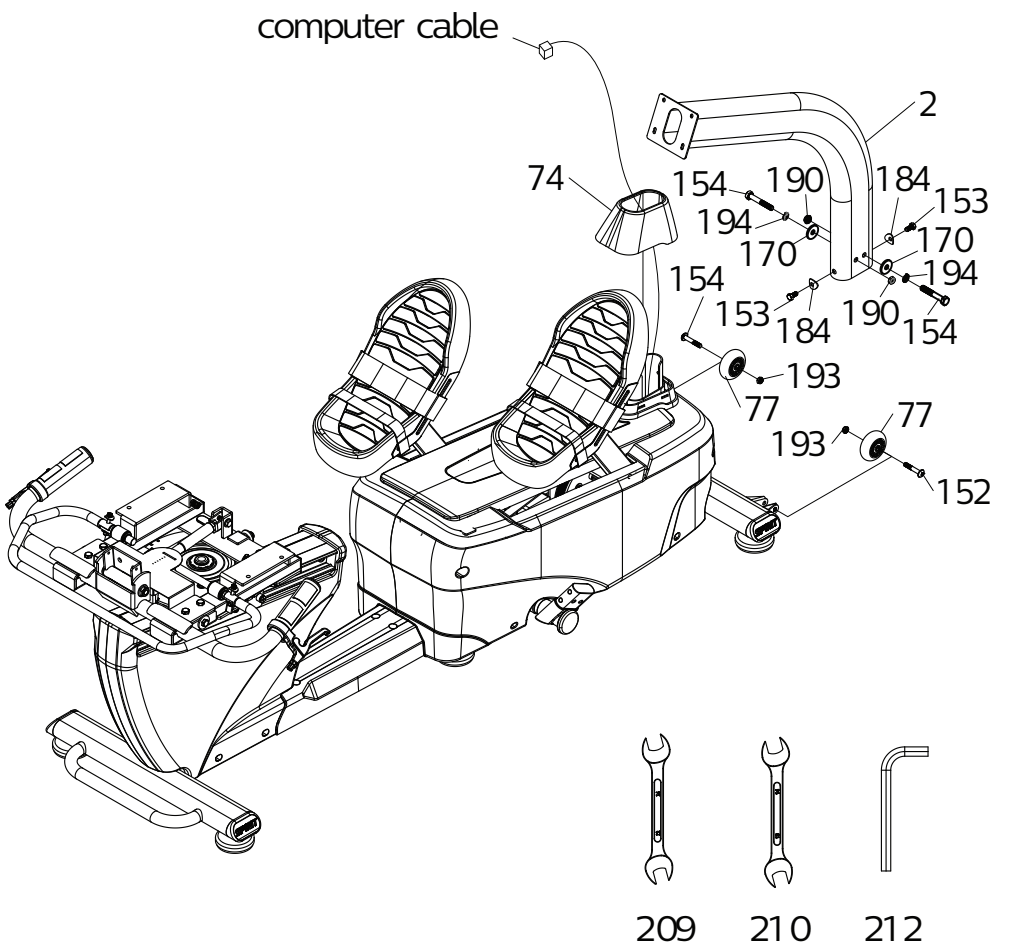
Step 1. Pedals, seat latch handle and handle bar assembly

- This section is easier if you slide the seat carriage (20) all the way back before starting. Slide the handle bar assembly (17) onto the receiving tubes of the seat frame (20). Secure the handle bar assembly starting with the two 3/8" x 3-1/4" bolts (140) (install from the inside hole of the receiving tube), four flat washers (170) and two nylon nuts (190). Install the safety cover (108) and seat belts (233) onto bolts before assembling washers and nuts. Install the four 3/8" x 2" bolts (132) from the top side of the tubes and assemble the four 3/8" flat washers (170) and 3/8" nylon nuts (190).
- Attach the end of the seat back gas shock (109) to the seat back angle adjustment bracket of the handle bar assembly (17) using 5/16" x 1-1/4" bolt (135), two 5/16" flat washers (173) and 5/16" nylon nut (193).
- Assemble swivel seat latch handle (22) to the seat assembly (20) with the two 6mm x 40mm bolts (129), four 6mm curved washers (185) and two 6mm nylon nuts (187).
- Plug the hand pulse connectors from the handle bars into the mating connectors of the seat carriage.
- Assemble the rubber isolators (82) and pedals (28) to the pedal foot plates with six m5 phillips screws (181) per side.
- Press the four stabilizer end caps (31) into the stabilizer tubes. May tap in with a rubber mallet.


108
129
185
187
22
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82
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243

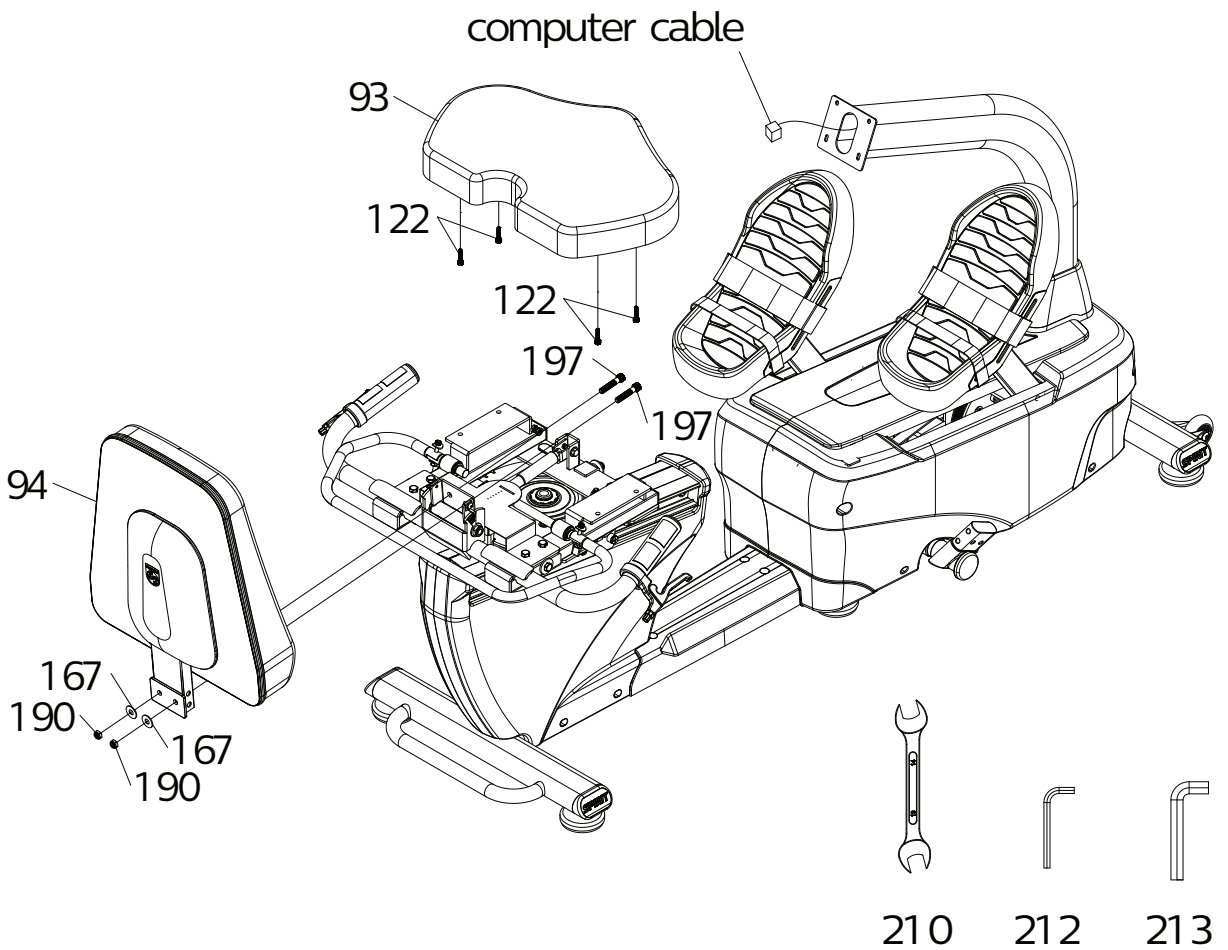
Step 2. Console mast & transport wheels assembly

- Install the transport wheels (77) using the 5/16” x 1-3/4” bolts (152) and 5/16” nylon nuts (193).
- Slide the console mast cover (74) onto the console mast (2); be sure the cover orientation on the mast is correct otherwise it won’t clip in place later.
- Snake the computer cable through the console mast and slide the mast onto the receiving brackets. Make sure the cable does not get pinched in between the mast and bracket.
- Fasten the mast with the two 3/8” x 2-1/2” bolts (154), 3/8” split washers (194) and 3/8” flat washers (170) from the left side of the mast and secure with the two 3/8” nylon nuts (190). Install the two 8mm x 16mm bolts (153) and curved washers (184) through the front and rear holes in the mast.



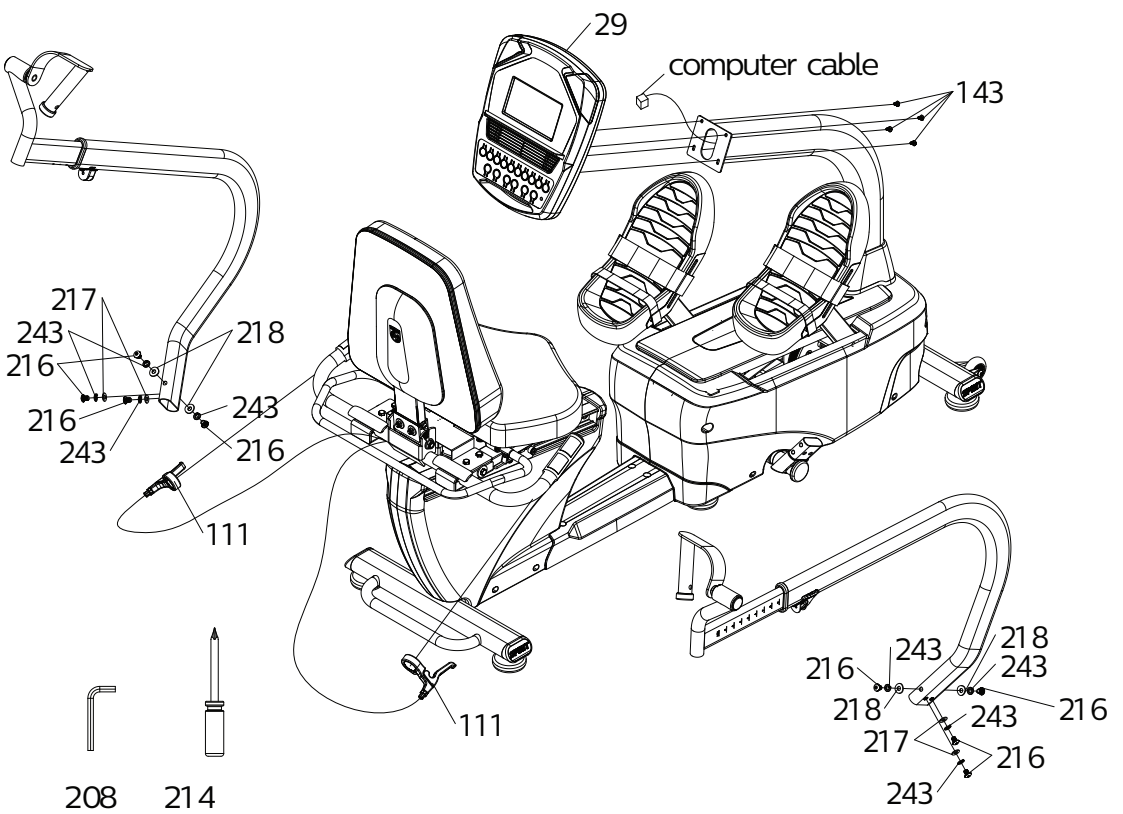
Step 3. Seat back and bottom cushion assembly

- Slide the seat back assembly (94) into the seat back angle adjustment bracket and secure with the two 3/8” x 1-3/4” bolts (197), 3/8” washers (167) and 3/8” nuts (190).
- Assemble the seat cushion (93) onto the seat frame with four m6 bolts (122).

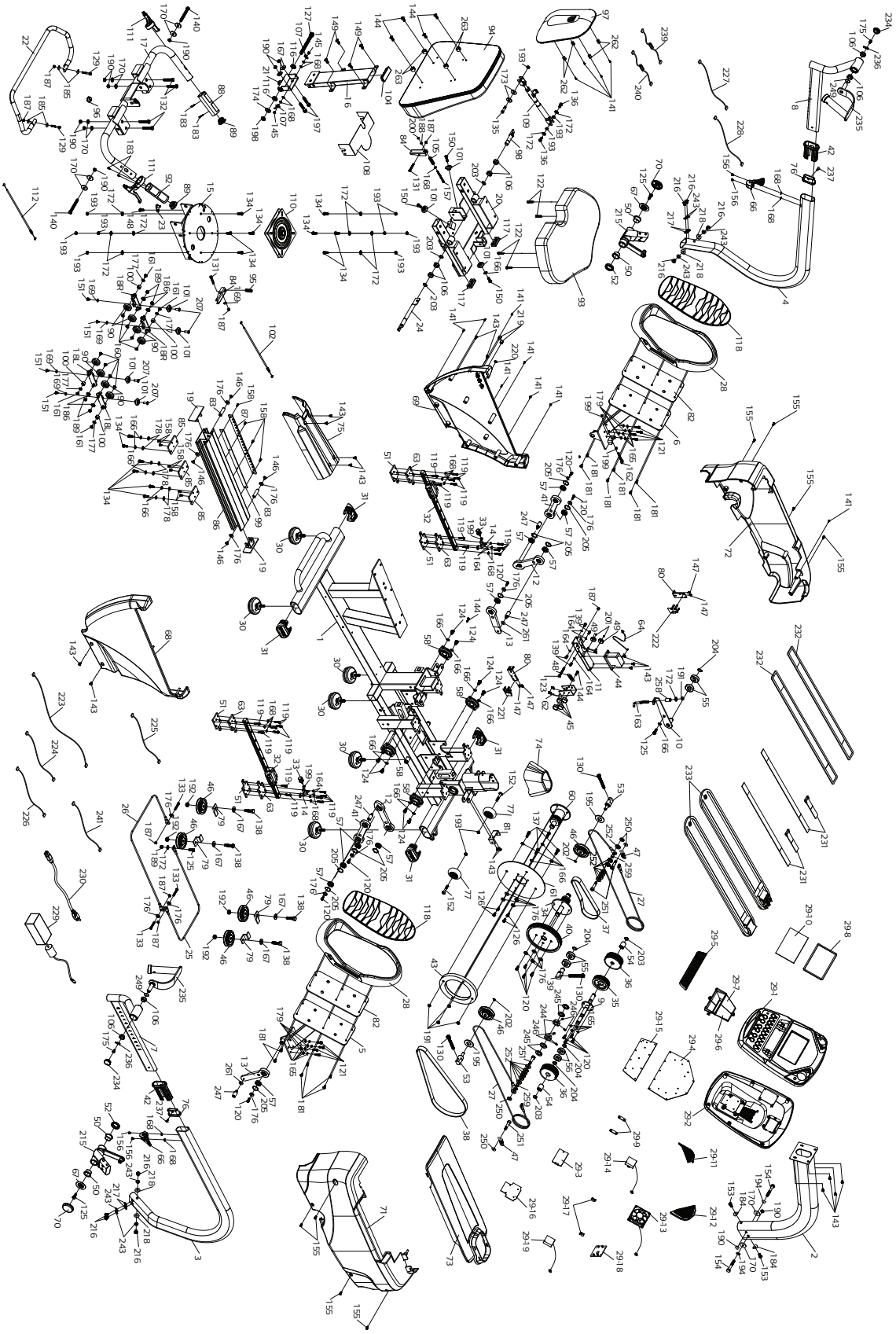


Step 4. Console and arm assembly

- Connect the computer cable into the back of the console and install the console (29) onto the console mast and secure with the four 5mm x 12mm screws (143).
- Install the left and right arms (3&4) and secure with the 3/8” x 5/8” bolts (216) and use the 3/8” flat washers (217) and 3/8” split washers (243) on the sides of the arms and the 3/8” curved washers (218) on the front and rear of the arms. Tighten the bolts very securely so the arms do not loosen up during use.
- Remove the allen screws from the lever clamps (111), fit them onto the handle bar (17) and secure with the allen screws. Make sure the levers are positioned under the hand position and they are adjusted so the patient can comfortably reach them during use. The release levers are labeled left and right; the left lever with gray cable is for the fore/aft seat adjustment and the right lever with black cable is for the seat back angle.



Exploded view drawing



7.0 S parts list

Item	Description	Qty
1	Main frame	1
2	Console mast	1
3	Swing arm (r)	1
4	Swing arm (l)	1
5	Pedal plate (r)	1
6	Pedal plate (l)	1
7	Swing arm(r)	1
8	Swing arm(l)	1
9	Drive pulley	1
10	Idler bracket	1
11	Brake motor bracket	1
12	Lower linkage a	2
13	Lower linkage b	2
14	Rubber cushion bracket	2
15	Seat carriage	1
16	Seat back bracket	1
17	Handle bar	1
18l	Seat wheel adjustment plate (l)	2
18r	Seat wheel adjustment plate (r)	2
19	Seat stop assembly	2
20	Rotate seat assembly	1
21	Seat back bracket	1
22	Seat rotation release lever	1
23	Cantilever anchor assembly	1
24	Adjusting lever	1
25	Front connecting cable	1
26	Rear connecting cable	1
27	Drive cable	2
28	Pedal	2
29	Console assembly	1
30	Rubber foot	6
31	End cap, oval stabilizer tube	4
32	Linear slider	2

Item	Description	Qty
33	Rubber cushion	2
34	Passive wheel	1
35	Drive wheel	1
36	Cable guide wheel	2
37	Belt (8pj), 584mm	1
38	Belt (8pj), 1032mm	1
39	Adjustable idler wheel axle	1
40	Drive pulley	1
41	Lower linkage	2
42	Sleeve, swing arm	2
43	Flywheel mass	1
44	Gear motor	1
45	Braking magnet	4
46	Roller	6
47	Cable spring	2
48	Gear motor spring	1
49	Steel cable roller	2
50	Plastic bushing	4
51	Rubber pad	4
52	Flywheel axle set collar (r)	2
53	Cable guide wheel axle	2
54	One way bearing	2
55	Ball bearing (6203)	4
56	ball bearing (6003)	2
57	ball bearing (6902)	10
58	mounted bearing	4
60	Aluminum disc drive pulley	1
61	Aluminum brake disc	1
62	Magnet bracket	1
63	Rubber isolation mount	4
64	Gear motor cable	1
66	Quick release lever	2
67	Cup washers	2

Item	Description	Qty
68	Rear shroud (r)	1
69	Rear shroud (l)	1
70	End cap	2
71	Shroud (r)	1
72	Shroud (l)	1
73	Top cover	1
74	Console mast cover	1
75	Bottom step cover	1
76	End cap, swing arm	2
77	Transportation wheel	2
79	Shroud bracket	4
80	Sensor bracket	2
81	Shroud fixing plate	1
82	Pedal isolation rubber	2
83	Seat stop axle	2
84	Seat position latch	2
85	Backing plate	3
86	Aluminum track	1
87	Rack, seat position	1
88	Hand pulse w/cable assembly (l)	1
89	Button head plug	2
90	Seat track wheel	8
92	Hand pulse w/cable assembly (r)	1
93	Seat cushion	1
94	Seat back	1
95	Spring, 12.9 x 30	1
96	Hgp wire grommet	1
97	Seat back cover	1
98	Adjusting lever rotate axle (l)	1
99	Seat track fixing plate	1
100	Sleeve	4
101	Pu wheel	7
102	Steel cable	1

Item	Description	Qty
104	Square end cap	1
105	Spring, 13.5 x 60l	1
106	Powder metal sleeve	8
107	Scale arrowhead	2
108	Safety cover	1
109	Locking gas cylinder	1
110	Rotating plate, seat	1
111	Release lever (left)	2
112	steel cable	1
116	Powder metal sleeve	2
117	Square end cap	2
118	Pedal foam cushion	2
119	Socket head cap bolt, m5 × p0.8 × 25	24
120	Socket head cap bolt, m6 × 1.0 × 15l	14
121	Socket head cap bolt, m6 × 1.0 × 20l	8
122	Socket head cap bolt, m6 × p1.0 × 25l	4
123	Socket head cap bolt, m6 × 1.0 × 55l	1
124	Socket head cap bolt, m8 × p1.25 × 12l	8
125	Socket head cap bolt, m8 × p1.25 × 20l	4
126	Socket head cap bolt, m6 × 1.0 × 12l	4
127	Socket head cap bolt, m12 × p1.75 × 120l	1
129	Socket head cap bolt, m6 × p1.0 × 40l	2
130	Socket head cap bolt, m10 × 1.5 × 75l	3
131	Socket head cap bolt, m6 × 38mm	2
132	Hex head bolt, 3/8" × 2"	4
133	Hex head bolt, m6 × 1.0 × 40l	3
134	Hex head bolt, 5/16" × 3/4"	14
135	Hex head bolt, 5/16" × unc18 × 1-1/4", 12l	1
136	Hex head bolt, 5/16" × 5/8"	2
137	Hex head bolt, m8 × 1.25 × 25l	4
138	Hex head bolt, m10 × 1.5 × 40l	4
139	Socket head cap bolt, m5 × p0.8 × 12	4
140	Hex head bolt, 3/8" × 3-1/4"	2

Item	Description	Qty
141	Phillips head self-tapping screw, ø3.5 × 12	12
143	Phillips head screw, m5 × p0.8 × 12l	1
144	Phillips head screw, m5 × p0.8 × 20l	2
145	Phillips head screw, m5 × 6l	1
146	Phillips head screw, m6 × 10l	1
147	Phillips head screw, m4 × 10l	1
148	Hex head bolt, 5/16" × unc18 × 3/4"	1
149	Button head socket bolt, m8 × p1.25 × ×20l	1
150	Button head socket bolt, m8 × p1.25 × 25l	2
151	Button head socket bolt, m6 × 10l	2
152	Button head socket bolt, 5/16" × 1-3/4"	4
153	Hex head bolt, m8 × 1.25 × 16l	2
154	Hex head bolt, 3/8" × unc16 × 2-1/2" × 27l	1
155	Phillips head screw, m5 × 12l	2
156	Phillips head screw, m5 × 6l	2
157	Phillips head screw, m5 × p0.8 × 70	2
158	Flat head phillips screw, m5 × 0.8 × 12l	3
160	Flat phillips head screw, m5 × 0.8 × 10l	1
161	Flat head phillips screw, m6 × 10l	1
162	Eye bolt, m6xp1.0 × 57l	1
163	J bolt, m8 × p1.25 × 80l	2
164	Split washer, 5mm	8
165	Split washer, 6mm	1
166	Split washer, 8mm	1
167	Flat washer, 10mm × 25mm	1
168	Flat washer, 5mm × 12mm × 1.0t	1
169	Flat washer, 1/4" × 13 × 1t	1
170	Flat washer, 3/8" × 30 × 3.0t	1
172	Flat washer, 8.5mm × 18mm	1
173	Flat washer, 8.5mm × 26mm	1
174	Flat washer, 1/2" × 1"	4
175	Socket head cap bolt, m6 × 1.0 × 10l	7
176	Flat washer, ø6 × ø19 × 3.0t	1

Item	Description	Qty
177	Flat washer, 1/4" × 16 × 1.0t	4
178	Flat washer, 5/16" × 16mm × 1.5t	6
179	Flat washer, 6.6mm × 12mm	8
181	Phillips head screw, m5 × p0.8 × 15l	12
183	Self tapping screw, 3mm × 20mm	4
184	Curved washer, 8mm × 23mm	2
185	Curved washer, 5/16" × 3/4"	4
186	Knurled lock washer, 8mm × 18mm	4
187	Nyloc nut, m6 × p1.0 × 6t	8
188	Nyloc nut, m5 × 5.0t	1
189	Nyloc nut, m8 × 7t	5
190	Nyloc nut, 3/8"	10
191	Nyloc nut, m8 × p1.25 × 6t	5
192	Nyloc nut, m10 × p1.5 × 8t	4
193	Nyloc nut, 5/16" × unc18	13
194	Split washer, 3/8"	2
195	Flat washer, 45mm × 21.8mm	2
197	Socket head cap bolt, 3/8" × unc16 × 1-3/4"	2
198	Nyloc nut, m12 × p1.75 × 8t	1
199	Nut, m6 × 5t	4
200	Nut, m5 × p0.8 × 4t	1
201	E-clip, 5mm	2
202	C-clip, 10mm	2
203	C-clip, 16mm	5
204	C-clip, 17mm	4
205	Inner snap ring, 28mm	10
207	Nut, m6 × 19l	4
208	L allen wrench, m6	1
209	Wrench, 12/14mm	1
210	Wrench, 13/14mm	1
211	Wrench, 10mm	1
212	L allen wrench, m5	1
213	L allen wrench, m8	1

Item	Description	Qty
214	Phillips head screw driver	1
215	Swing arm drive weldment	2
216	Button head socket bolt, 3/8" × unc16 × 5/8"	8
217	Flat washer, 3/8"	4
218	Curved washer, 3/8"	4
219	Wire grommet	2
220	Dummy plug	1
221	Optical sensor board, encoder	1
222	Optical sensor board, rpm	1
223	Computer console cable	1
224	Encoder cable	1
225	Dc power cable	1
226	Optical sensor cable	1
227	Hand pulse cable, upper	1
228	Hand pulse cable, lower	1
229	Power adapter, 12vdc	1
230	Power adapter line cord	1
231	Foot strap, narrow	2
232	Foot strap, wide	2
233	Seat belt	1
234	Round end cap	2
235	Swivel handle	2
236	Swivel handle range limiter	2
237	Self tapping screw, 5 mm× 16l	2
239	Hand pulse wire	1
240	Hand pulse wire	1
241	Connecting wire	1
242	Short phillips head screw driver	1
243	Split washer,10mm x 2.0t	8
244	Axle set collar	2
245	Nylon washer, ø18 × ø32 × 1.5t	4
246	Set screw, m5 × 10m/m	4
247	Rotate axle	4

Item	Description	Qty
249	Wave washer, ø17	2
250	Flat washer, 5/16" × ø20 × 3.0t	4
251	Bolt, m8 × 10 × 30l	4
252	Nylon washer, ø10 × ø24 × 3.0t	14
258	Sleeve	1
259	Powder metal bearing	2
261	Flat washer, 3/8" × ø20 × 2.0t	2
262	Snap connector, male(4.7x14x16	1
263	Snap connector, female(5.5x20x11.9)	1

Maintenance

- Wipe down all areas in the sweat path with a damp cloth after each use to prevent rust.
- Check the pedal to make sure they are tight (monthly).
- If a squeak, thump, clicking or rough feeling develops the main cause is most likely one of two reasons:
  - The hardware was not sufficiently tightened during assembly. All bolts that were installed during assembly need to be tightened as much as possible. It may be necessary to use a larger wrench than the one provided if you cannot tighten the bolts sufficiently. I cannot stress this point enough; 90% of calls to the service department for noise issues can be traced to loose hardware.
  - The crank arm nut and/or the pedals need to be retightened.
- If squeaks or other noises persist, check that the unit is properly leveled. There are 2 leveling pads on the bottom of the rear stabilizer, use a ½" wrench (or adjustable wrench) to adjust the levelers.

Maintenance menu in console software

The console has built in maintenance/diagnostic software. The software will allow you to change the console settings from English to Metric and turn off the beeping of the speaker when a key is pressed for example. To enter the Maintenance menu (may be called Engineering mode, depending on version) press and hold down the Start, Stop and Enter keys. Keep holding the keys down for about 5 seconds and the message window will display "Engineering mode". Press the enter button to access the menu below:

- Key Test
- LCD test
- Functions
  - Sleep mode – on
  - Pause mode - on (If pause mode is off then console will remained Paused indefinitely, unless Stop or Start is pressed again).
  - Odometer reset
  - Units – English or Metric
- Service
  - Motor test
    ① Runs resistance motor from level 1~20 and then 20~1.
    ② Position sensor value is shown in STEPS data window.
  - Sensor Test
    ① SPM window shows reflector sensor #1 signal (1 or 0)
    ② CALORIES window shows reflector sensor #2 signal
    ③ TIME window show Left step position counter
    ④ STEPS window show Right step position counter
    ⑤ PULSE window show speed sensor signal (on or off)

Error messages

- EEPROM Error – Solution for this is to replace the console (Note: this is the only error message)
- Motor Error – Press stop to enter idle mode – This error means the motor that controls resistance did not respond a s expected. If the error occurs press stop. The console will return to the idle mode. You can then use the console but there will be no resistance changes. You may try to disconnect the power to the 7.0 S for one minute and re-connect. This may solve the problem, but if it does not call service.

Troubleshooting

Below are common problems and basic checks to solve them. If these tips do not solve your problem then call your local distributor for service)

No power

- Make sure the A.C. outlet has power (90~240VAC) and the line cord is plugged in securely to the AC adapter.
- Check the connection of the DC power wire from the adapter where it enters the 7.0 S.
- Make sure all connectors in back of the console are securely seated in place.

Console programs do not start

- Perform Keypad test in Maintenance mode
- If you cannot access the test, and the keys seem to have no affect when pressed, then the keypad has malfunctioned.

Program starts but no data registers when 7.0 S is pedaled

- Check that the connectors are properly seated in the back of the consoles.
- Perform the Sensor tests in Maintenance mode. If one of the sensors does not b.work it needs replacement. If both sensors do not work then it could be a bad b.console or both sensors are bad.

Symmetry and/or watt measurement is incorrect

- Perform the sensor tests in Maintenance Mode

Cannot adjust seat fore/aft or back angle, or seat adjustments will not lock in place

Adjust the thumb nuts located to the rear of the seat adjustment levers. If the cables attached to the levers stretch it is possible the latch for the seat will not disengage, or engage, properly. Adjusting the thumb nut can remedy this.

Clicking noise when pedaling

- Make sure the pedal is tightened properly.
- Make sure the swing arms are securely tightened where they attach to the 7.0 S.
- Check that the leveling feet on the bottom of the 7.0 S are adjusted properly.

One pedal has no resistance but the other does

- The drive cable has jumped off of the pulley system.

Specifications

REF **7.0 S**

Dimensions
Length : 67” (172cm)
Width : 30” (77cm)
Height : 48” (122cm)

Weight
257.4 lbs. (117 kg)

Patient weight capacity
440 Lbs. (200 Kgs.)

Input power
12 VDC, 2.74 Amps

External power supply
Sinpro model # HPU32A-105, 30 watt power supply
Input: 100-240V ~: 50/60 Hz: 0.6–0.4A
Output: 12 VDC, 2.74 A
Input to output: 2MOPP

Fuse rating
No user replaceable fuse

Resistance
Isokinetic with 20 levels of effort

Work load
5 watts up to 650 watts

Readouts
Time and Segment time remaining, RPM, Watts (Left and Right), METS, Symmetry Index, Heart Rate, Calories, Work Level

Disposal
Reference should be made to local regulations concerning the disposal of this product at the end of useful life.

Certifications

TUV listed to ANSI/AAMI ES60601-1:2005+A2 (R2012) +A1, CAN/CSA-C22.2
No. 60601-1:14, CE conformity to EN 60601-1 EMC, Compliance to EN 60601-1-2

Classification

Class II measuring, Type BF, ordinary equipment, continuous operation. This product is classed as ordinary equipment according to IEC/EN/UL60601-1 and is NOT protected against the ingress of water.

Manufacturer

Dyaco International Inc.
12F, No.111, Songjiang Rd., Taipei 104, Taiwan (R.O.C.)

Guidance and manufacturer's declaration – electromagnetic compatibility

The 7.0 S is intended for use in the electromagnetic environment specified below. The customer or the user of the 7.0 S should assure that it is used in such an environment.

Emissions test	**Compliance**	**Electromagnetic environment – guidance**
RF emissions CISPR 11	Group 1	The 7.0 S uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The 7.0 S is suitable for use in all establishments, including domestic establishments

Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	d = 1,2 $\sqrt{P}$ 80 MHz to 800 MHz d = 2,3 $\sqrt{P}$ 800 MHz to 2,5 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrical fast transient/burst IEC 61000-4-4	+/-2 kV for power supply lines +/-1 kV for input/output lines	+/-2 kV for power supply lines +/-1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.

Note

- If the device is interfered by power or signal cable, image quality may be reduced or abnormally displayed. Such kind of interference images could be easily identified and differentiated from the physiological characteristics of patient and longer clinical time consumed but wouldn't have any diagnostic accuracy issue.
- If there is a certain frequency of image interference, there is a need of isolation or filtering of the RF signal.

Description of packaging symbols



Indicates that the package is heavy and two or more people are required to lift.



Package contains fragile electronic equipment.
Care should be used when handling.
The product inside the packaging could be easily damaged if dropped or handled without care and attention. The contents are fragile!



Fork
Spade
Razorback

Do not use forklift truck here.

Do not use Spade truck here.

Do not use Razorback truck here.



Hand truck only.



Indicates that an object is capable of being recycled - not that the object has been recycled or will be accepted in all recycling collection systems.



Top. This side up.

Product warranty

Dyaco Commercial & Medical North America LLC (hereinafter "Dyaco"), the manufacturer of the Philips Professional Series Physical Therapy Products (hereinafter "Products") warrants all of the Products and their components listed below for the periods of time set out on this page below from the date of sale, as determined by sale receipt, or in the absence of a sales receipt, eighteen (18) months from the original factory shipping date. During the applicable warranty periods, Dyaco's responsibilities under these warranties include providing, at no charge, new or remanufactured parts, as determined by Dyaco at its sole and absolute discretion, and covering the cost of labor deemed necessary by Dyaco, at its sole and absolute discretion, to remedy faults giving rise to applicable warranty claims. The warranty periods set out below are subject to the performance of proper care and maintenance, as set out in this user manual, by the original purchaser of the equipment. Warranties are not transferable.

Warranty	Frame	Drive motor	EMS brake
commercial	Lifetime	10 years	5 years

Parts	Labor	Wear items
3 years	3 years	6 months

* Wear items are rubber hand grips, pedals, console overlay and drive belt

Normal responsibilities of the facility

The facility is responsible for the items listed below

- The warranty registration must be completed online to validate the manufacturer's limited warranty.
- Proper use of the fitness equipment in accordance with the instructions provided in this manual.
- Proper installation in accordance with instructions provided with the fitness equipment and with all local electric codes.

- Proper connection to a grounded power supply of sufficient voltage, replacement of blown fuses, repair of loose connections or defects in house or facility wiring.
- Expenses for making the fitness equipment accessible for servicing, including any item that was not part of the fitness equipment at the time it was shipped from the factory.
- Damages to the fitness equipment finish during shipping, installation or following installation.
- Routine maintenance of this unit as specified in this manual.

Exclusions

This warranty does not cover the following:

- Consequential, collateral, or incidental damages such as property damage and incidental expenses resulting from any breach of this written or any implied warranty. Note: Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.
- Service call reimbursement to the consumer. Service call reimbursement to the dealer that does not involve malfunction or defects in workmanship or material, for units that are beyond the warranty period, for units that are beyond the service call reimbursement period, or units not requiring component replacement.
- Damages caused by services performed by persons other than authorized Dyaco service companies, use of parts other than original Dyaco parts, or external causes such as alterations, modifications, abuse, misuse, accident, improper maintenance, inadequate power supply.
- Products with original serial numbers that have been removed or altered.
- Products that have been; sold, transferred, bartered, or given to a third party.
- Products that are used as store display models.
- Products that do not have a warranty registration on file at Dyaco. Dyaco reserves the right to request proof of purchase if no warranty record exists for the product.

- Manufacturer, distributor, or the Licensor shall not be responsible or liable of any direct, indirect, general, special, punitive, incidental or consequential damages; loss of or damage to property; claims of third parties; loss of life; personal injury (including further injury, or re-injury), and any other losses or damages of any kind or character, arising out of or in connection with the use of Biophysical Agents by the facilities or clinicians. The facilities or clinicians that select, prescribe, and implement the use of Biophysical Agents will assume the related responsibility.
- Definitions of " Biophysical agents " : Biophysical agents are a broad group of agents that use various forms of energy and are intended to assist muscle force generation and contraction; decrease unwanted muscular activity; maintain strength after injury or surgery; modulate or decrease pain; reduce or eliminate edema; improve circulation; decrease inflammation, connective tissue extensibility, or restriction associated with musculoskeletal injury or circulatory dysfunction; increase joint mobility, muscle performance, and neuromuscular performance.
- Physical therapists select, prescribe, and implement the use of biophysical agents when the examination findings, diagnosis, and prognosis indicate the use of these agents to reduce risk factors and complications; enhance health, wellness, or fitness; enhance or maintain physical performance; or prevent or remediate impairments in body functions and structures, activity limitations, or participation restrictions. The use of biophysical agents in the absence of other interventions should not be considered to be physical therapy unless there is documentation that justifies the necessity of their exclusive use.
- Use of the products in any way other than described within products' operation manual, either intentionally or by error.
- Damages due to improper storage or transport or other causes not solely attributable to Manufacturer.
- The exact amount of indemnification or cost arising out of breach of this written or any implied warranty shall be fairly negotiated by both you and Manufacturer.
- This warranty is expressly in lieu of all other warranties expressed or implied, including the warranties of merchantability and/or fitness for a particular purpose.

Service

Keep your bill of sale. Twenty four (24) months from the date on the bill of sale or eighteen (18) months from the date of factory shipping as determined by the serial number establishes the warranty period should service be required. If service is performed, it is in your best interest to obtain and keep all receipts. This written warranty gives you specific legal rights. You may also have other rights that vary from state to state. Service under this warranty must be obtained by following these steps, in order:

- Contact your selling authorized Dyaco dealer. OR
- Contact your local authorized Dyaco service organization.
- If there is a question as to where to obtain service, contact our service department at 1-866-869-4409.
- Dyaco's obligation under this warranty is limited to repairing or replacing, at Dyaco's option, the product through one of our authorized service centers. All repairs must be preauthorized by Dyaco. If the product is shipped to a service center freight charges to and from the service center will be the customer's responsibility. For replacement parts shipped while the product is under warranty, the customer will be responsible for shipping and handling charges.
- The owner is responsible for adequate packaging upon return to Dyaco. Dyaco is not responsible for damages in shipping. Make all freight damage claims with the appropriate freight carrier. Do not ship any unit to our factory without a return authorization number. All units arriving without a return authorization number will be refused.
- For any further information, or to contact our service department by email, or phone call, and also please refer to website for additional information:
  - Consumer care service email address: philipssupport@dcmna.com
  - Consumer care service phone number: 1-886-869-4409

Product features or specifications as described or illustrated are subject to change without notice. All warranties are made by Dyaco Commercial & Medical North America LLC. This warranty applies only in the 48 contiguous United States.

Note: This warranty does not apply to Alaska or Hawaii.



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and Dyaco Commercial & Mediacl North America LLC is the warrantor in relation to this product.