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NOTICE: This document provides important safety instructions, adjustments, and general troubleshooting information for the maintenance of the Nautilus™ E616 Elliptical Fitness Machines (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com


 **This icon means a potentially hazardous situation which, if not avoided, could result in death or serious injury. Read and understand all Warnings on this machine.**


Nautilus, Inc., www.NautilusInc.com, 5415 Centerpoint Parkway, Groveport, OH 43125 U.S.A. - Customer Service: North America (800) 605-3369, csnls@nautilus.com | outside U.S. www.nautilusinternational.com |
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Important Safety Instructions

 **This icon means a potentially hazardous situation which, if not avoided, could result in death or serious injury. Read and understand all Warnings on this machine.**

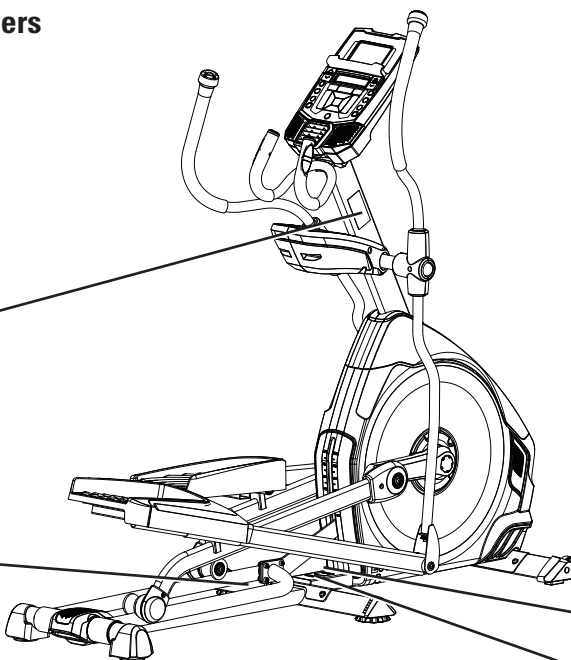
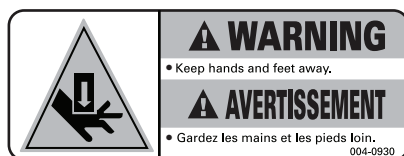
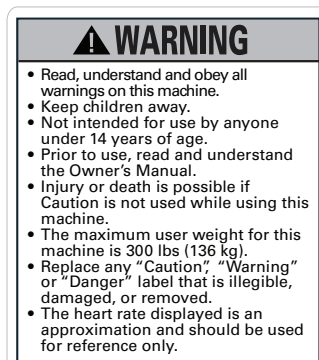
Before servicing or using this equipment, obey the following warnings:

 **Read and understand the Service Manual before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.**

 **DANGER** **To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.**

- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not put the machine back in service until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.
- Connect this machine to a properly grounded outlet only (see Grounding Instructions).
- Keep the power cord away from heat sources and hot surfaces.
- Do not operate where aerosol products are being used.
- To disconnect, turn all controls to the off position, then remove plug from outlet.

Safety Warning Labels and Serial Numbers



Product Specification

Serial Number

Reading the Product Specification Decal

The Manufacture Date on the Product Specification Decal is a date code: YY/WW (year/week).

Manufacture Date Code:			
Date De Manufacture: YYWW			

FCC Compliance

⚠ Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The machine and power supply comply with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This machine and power supply have been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

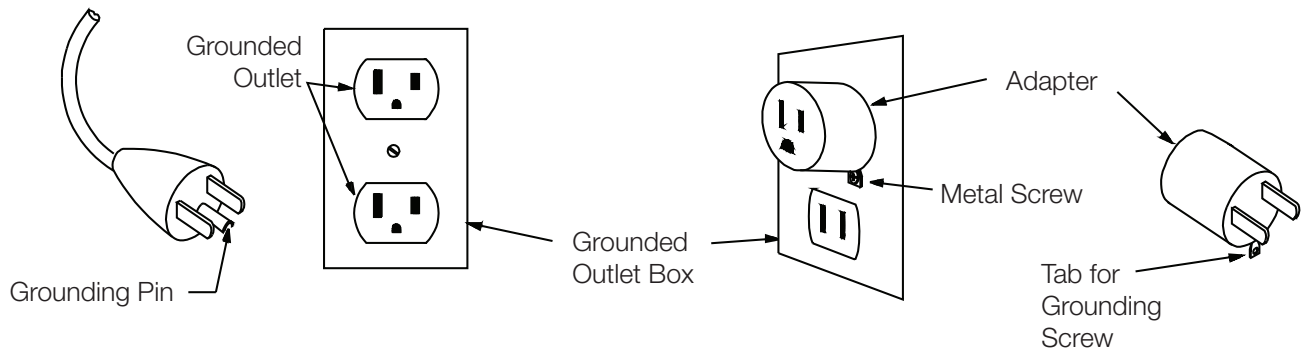
Grounding Instructions

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

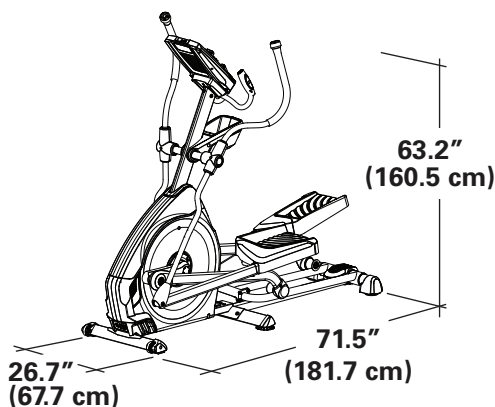
⚠ DANGER Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This machine is for use on a nominal 120-V circuit, and has a grounding plug that looks like the plug illustrated below. A temporary adapter that looks like the adapter illustrated may be used to connect this plug to a 2-pole receptacle as shown if a properly grounded outlet is not available.

The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.



Specifications



Maximum User Weight: 300 lbs. (136 kg)

Machine Weight: 173.3 lbs. (78.6 kg)

Power Requirements:

Operational Voltage: 120V AC

Operating Current: 2 A



DO NOT dispose of this product as refuse. This product is to be recycled. For proper disposal of this product, please follow the prescribed methods at an approved waste center.

Maintenance

Read all maintenance instructions fully before you start any repair work. In some conditions, an assistant is required to do the necessary tasks.



Equipment must be regularly examined for damage and repairs. The owner is responsible to make sure that regular maintenance is done. Worn or damaged components must be repaired or replaced immediately. Only manufacturer supplied components can be used to maintain and repair the equipment.

If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.

Disconnect all power to the machine before you service it.

⚠ DANGER

To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Daily:

Before each use, examine the exercise machine for loose, broken, damaged, or worn parts. Do not use if found in this condition. Repair or replace all parts at the first sign of wear or damage. After each workout, use a damp cloth to wipe your machine and Console free of moisture.

Note: Avoid excessive moisture on the Console.

NOTICE: If necessary, only use a mild dish soap with a soft cloth to clean the Console. Do not clean with a petroleum based solvent, automotive cleaner, or any product that contains ammonia. Do not clean the Console in direct sunlight or at high temperatures. Be sure to keep the Console free of moisture.

Weekly:

Check for smooth roller operation. Wipe the machine to remove dust, dirt, or grime. Clean the rails and surface of the rollers with a damp cloth.

Note: Do not use petroleum based products.



Silicone lubricant is not intended for human consumption. Keep out of reach of children. Store in a safe place.

Monthly or after 20 hours:

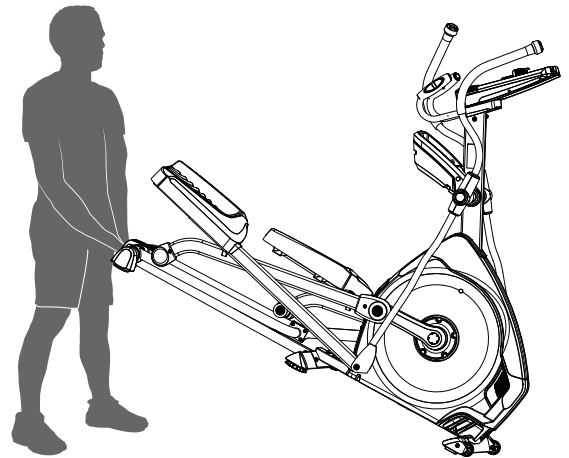
Make sure all bolts and screws are tight. Tighten as necessary.

Moving the Machine

! The machine may be moved by one or more persons depending on their physical abilities and capacities. Make sure that you and others are all physically fit and able to move the machine safely. Use proper safety precautions and lifting techniques.

1. Remove the power cord.
2. Use the Transport Handle to carefully lift the machine onto the transport rollers.
3. Push the machine into position.
4. Carefully lower the machine into position.

NOTICE: Be careful when you move the elliptical. Abrupt motions can affect the computer operation.



Leveling the Machine

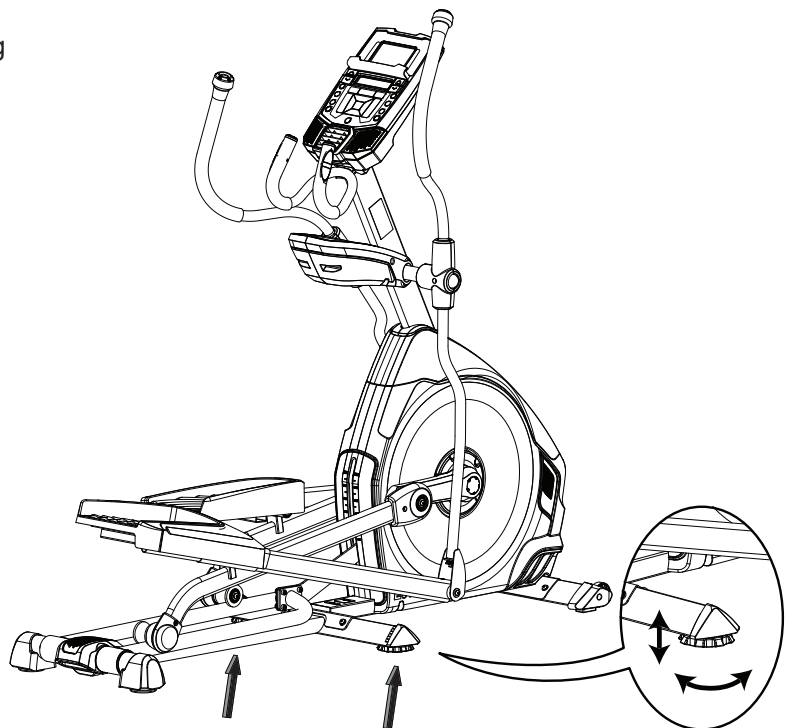
The machine needs to be leveled if your workout area is uneven or if the Rail Assembly is slightly off the floor. To adjust:

1. Place the machine in your workout area.
2. Safely stand on the back of the Rail Assembly for approximately 20 seconds.
3. Step off the machine.
4. Loosen the locking nuts and adjust the levelers until they all contact the floor.

! Do not adjust the levelers to such a height that they detach or unscrew from the machine. Injury to you or damage to the machine can occur.

5. Adjust until the machine is level. Tighten the locking nuts.

Make sure the machine is level and stable before you exercise.



Bluetooth® Connectivity with the “Nautilus Trainer™” Fitness App (E616 only)

This fitness machine is equipped with Bluetooth® connectivity and can wirelessly sync with the “Nautilus Trainer™” Fitness App on supported devices. The Software App syncs with your fitness machine to track total calories burned, time, distance, and more. It records and stores every workout for quick reference. Plus, it automatically syncs your workout data with MyFitnessPal® and Under Armour® Connected Fitness to make hitting your daily calorie goal easier than ever! Track your results and share with friends and family.

1. Download the free Software App, named Nautilus Trainer™. The software app is available on the App Store and Google Play™.

Note: For a complete list of supported devices, review the software app on the App Store or Google Play™.

2. Follow the instructions on the Software App to sync your device to your exercise machine.
3. To sync your workout data with MyFitnessPal® or Under Armour® Connected Fitness, click on the desired program and login with your information.

Note: The “Nautilus Trainer™” Fitness App will automatically sync your workouts after the initial syncing.

Workout with Other Fitness Apps

This fitness machine has integrated Bluetooth® connectivity which allows it to work with a number of digital partners. For our latest list of supported partners, please visit: [**www.nautilus.com/partners**](http://www.nautilus.com/partners)

USB Charging

If a USB Device is attached to the USB Port, the Port will attempt to charge the Device.

Note: Depending on the amperage of device, the power supplied from the USB Port may not be enough to operate the Device and charge it at the same time.

Speakers and Audio Cable

To play audio through the speakers on your machine, attach the Audio Cable to your device and to the Audio Cable Port on the Console. With the Console turned on, you can play audio from your device through the speakers. Volume is controlled from your device.

Note: Though your machine is Bluetooth® enabled, it is unable to receive and play audio across a Bluetooth® connection.

Troubleshooting

Condition/Problem	Things to Check	Solution
No display/partial display/ unit will not turn on	Check electrical (wall) outlet	Make sure unit is plugged into a functioning wall outlet.
	Check connection at front of unit	Connection should be secure and undamaged. Replace adapter or connection at unit if either are damaged.
	Check data cable integrity	All wires in cable should be intact. If any are visibly crimped or cut, replace cable.
	Check data cable connections/orientation	Be sure cable is connected securely and oriented properly. Small latch on connector should line up and snap into place.
	Check console display for damage	Check for visual sign that console display is cracked or otherwise damaged. Replace Console if damaged.
	Console Display	If Console only has partial display and all connections are fine, replace the Console.
		If the above steps do not resolve the problem, contact Customer Care for further assistance.
Unit operates but Contact HR not displayed	HR cable connection at Console	Be sure cable is connected securely to Console.
	HR cable box connection	Be sure cables from handlebars and cable to Console are secure and undamaged.
	Sensor grip	Be sure hands are centered on HR sensors. Hands must be kept still with relatively equal pressure applied to each side.
	Dry or calloused hands	Sensors may have difficulty with dried out or calloused hands. A conductive electrode cream (heart rate cream) can help make better conduct. These are available on the web or at medical or some larger fitness stores.
	Static Handlebar	If tests reveal no other issues, Static Handlebar should be replaced.
Unit operates but Telemetric HR not displayed	Chest Strap (optional)	Strap should be "POLAR®" compatible and uncoded. Make sure strap is directly against skin and contact area is wet.
	Chest Strap Batteries	If strap has replaceable batteries, install new batteries.
	Check User Profile	Select the Edit User Profile option for the User Profile. Go to the WIRELESS HR setting and make sure that the current value is set to ON.
	Interference	Try moving unit away from sources of interference (TV, Microwave, etc).
	Replace Chest Strap	If interference is eliminated and HR does not function, replace strap.
	Replace Console	If HR still does not function, replace Console.
Unit operates but Telemetric HR displayed incorrectly	Interference	Make sure that the HR receiver is not blocked by a personal electronic device in the left side of the media tray.
No speed/RPM reading, Console displays "Please Stride" error code	Check data cable integrity	All wires in cable should be intact. If any are cut or crimped, replace cable.
	Check data cable connections/orientation	Be sure cable is connected securely and oriented properly. Small latch on connector should line up and snap into place.
	Check magnet position (requires shroud removal)	Magnet should be in place on pulley.
	Check Speed Sensor (requires shroud removal)	Speed sensor should be aligned with magnet and connected to data cable. Realign sensor if necessary. Replace if there is any damage to the sensor or the connecting wire.

Condition/Problem	Things to Check	Solution
Resistance does not change (machine turns on and operates)	Batteries (if equipped)	Replace batteries and check for proper operation.
	Check Console	Check for visual sign that Console is damaged. Replace Console if damaged.
	Check data cable integrity	All wires in cable should be intact. If any are visibly crimped or cut, replace cable.
	Check data cable connections/orientation	Be sure cable is connected securely and oriented properly. Reseat all connections. Small latch on connector should line up and snap into place.
	Check Servo Motor (requires shroud removal)	If magnets move, adjust until they are within the proper range. Replace Servo Motor if not functioning properly.
		If the above steps do not resolve the problem, contact Customer Service (if inside US/Canada) or your local distributor (if outside US/Canada).
Console shuts off (enters sleep mode) while in use	Check electrical (wall) outlet	Make sure unit is plugged into a functioning wall outlet.
	Check connection at front of unit	Connection should be secure and undamaged. Replace adapter or connection at unit if either are damaged.
	Check data cable integrity	All wires in the cable should be intact. If any are cut or crimped, replace cable.
	Check data cable connections/orientation	Be sure cable is connected securely and oriented properly. Small latch on connector should line up and snap into place.
	Reset machine	Unplug unit from electrical outlet for 3 minutes. Reconnect to outlet.
	Check magnet position (requires shroud removal)	Magnet should be in place on pulley.
	Check Speed Sensor (requires shroud removal)	Speed sensor should be aligned with magnet and connected to data cable. Realign sensor if necessary. Replace if there is any damage to the sensor or the connecting wire.
Fan will not turn on or will not turn off	Check data cable integrity	All wires in cable should be intact. If any are cut or crimped, replace cable.
	Check data cable connections/orientation	Be sure cable is connected securely and oriented properly. Small latch on connector should line up and snap into place.
	Reset machine	Unplug unit from electrical outlet for 3 minutes. Reconnect to outlet.
Fan will not turn on, but Console operates	Check for blockage of fan	Unplug unit from electrical outlet for 5 minutes. Remove material from fan. If necessary, detach the Console to help with removal. Replace the Console if unable to remove blockage.
Unit rocks/does not sit level	Check leveler adjustment	Adjust levelers until machine is level.
	Check surface under unit	Adjustment may not be able to compensate for extremely uneven surfaces. Move machine to level area.
	Check for loose hardware	Tightly secure all hardware on the Stabilizers and the base of the Console Mast.
Foot pedals loose/unit difficult to operate	Hardware	Tightly secure all hardware on the Pedal Arms and Handlebar Arms.
Drive train click/tick noise once per full crank revolution	Check crank/pulley assembly	Disconnect left and right foot assemblies and rotate crank. If sound persists, replace crank/pulley assembly. If sound does not come from rotating crank, check foot assemblies and upper/lower handlebars.

Condition/Problem	Things to Check	Solution
	Check foot assemblies, leg assemblies, handlebar assemblies	Manually move foot, leg, and handlebar assemblies to isolate sound. Replace part making sound.
	Check for loose hardware	Tightly secure all hardware on the Stabilizers and the base of the Console Mast.
Squeaking noise that appears a few minutes into a workout and normally will get progressively worse as the workout continues	Bolt that connects the handlebar arms to the arm pivot rod running through the console mast	Loosen pivot rod bolt slightly until noise goes away. White lithium grease can also be applied for a temporary fix. Contact Customer Care for assistance.
Unit operates but incline does not adjust	MCB Connections (requires shroud removal)	Unplug unit from electrical outlet for 5 minutes. Inspect Incline Motor Assembly cables and be sure they are properly connected to MCB and not cut or crimped. If any are cut or crimped, replace Incline Motor Assembly.
	Lower and Upper I/O Cables (requires shroud removal)	All wires in the cables should be intact. If any are cut or crimped, replace cable.
	Incline Adjuster Assembly (requires shroud removal)	Be sure Incline Adjuster Assembly is attached to Incline Motor drive screw
	Console	Go to Console Service Mode, MFG Menu. Use the RUN BUTTON TEST and MOVE LIFT options to check for proper operation of the Incline buttons and keypad.
		If the above steps do not resolve the problem, replace Incline Motor Assembly
Console continuously cycles through program screens (E616 2017 only)	Console is in demonstration mode	Hold down the PAUSE/END button and Left button together for 3 seconds.
Workout results will not sync with Bluetooth® enabled device (E616 only)	Current console mode	Machine must be in Idle Mode to sync. Push the PAUSE/END button until the Power-Up Mode screen is displayed.
	Total time of workout	A workout must be longer than 1 minute to be saved and posted by the Console.
	Fitness machine	Unplug unit from electrical outlet for 5 minutes. Reconnect to outlet.
	Bluetooth® enabled device	Consult your device to be sure that the Bluetooth® wireless feature has been enabled on it.
	Fitness App	Review Specifications of Fitness App and confirm your device is compatible.
		Contact appsupport@nautilus.com (if inside US/Canada) or your local distributor (if outside US/Canada) for further assistance.
Workout results not posting from Nautilus Trainer™ to MyFitnessPal® / Under Armour® Connected Fitness (E616 only)	Sync accounts	From the Menu icon on the Nautilus Trainer™ App, select the Sync to MyFitnessPal® or Under Armour® Connected Fitness.
	Sync fails	Review account and password for MyFitnessPal® / Under Armour® Connected Fitness.
		Contact appsupport@nautilus.com (if inside US/Canada) or your local distributor (if outside US/Canada) for further assistance.

Console Service Mode – x614 / x616 series (MY14) Consoles

The Console Setup Mode lets you input the date and time, set the units of measurement to either English or Metric, change the machine type, control the sound settings (on/ off), or see maintenance statistics (Total Run Hours – for service technician use only).

1. Hold down the PAUSE/END button and Right button together for 3 seconds while in the Power-Up Mode to go into the Console Setup Mode.

Note: Push PAUSE/END to exit the Console Setup Mode and return to the Power-Up Mode screen.

2. The Console display shows the Date prompt with the current setting. To change, push the Increase/Decrease buttons to adjust the currently active value (flashing). Push the Left/Right buttons to change which segment is the currently active value (month / day / year).
 3. Push OK to set.
 4. The Console display shows the Time prompt with the current setting. Push the Increase/Decrease buttons to adjust the currently active value (flashing). Push the Left/Right buttons to change which segment is the currently active value (hour / minute / AM or PM).
 5. Push OK to set.
 6. The Console display shows the Units prompt with the current setting. To change, push OK to start the Units option. Push the Increase/Decrease buttons to change between “MILES” (Imperial English units) and “KM” (metric units).
- Note:** If the units change when there is data in User Statistics, the statistics convert to the new units.
7. Push OK to set.
 8. The Console display shows the Machine Type prompt with the current setting. This menu option appears in the x614 series console only (not the x616 series consoles). Push the Increase/Decrease buttons to change between “BIKE” and Elliptical (“ELIP”).
 9. Push OK to set.
 10. The Console display shows the Sound Settings prompt with the current setting. Push the Increase/Decrease buttons to change between “ON” and “OFF”.
 11. Push OK to set.
 12. The Console display shows the TOTAL RUN HOURS for the machine.

To go to the next Console Setup Mode prompt, push the OK button.

To enter the Manufacturing Menu (MFG Menu), hold down the PAUSE/END button and Down button together for 3 seconds. The Console display shows the Firmware Version string. Push the Up/Down buttons to move through the MFG Menu options. Push OK to make a selection.

- a. ENTER MFG TEST – This option is intended for use on the manufacturing production line only. It is a chained series of tests similar to the tests listed below, but optimized to be run on the production line. This chained test should not be used anywhere but on the production line.
- b. DEBUG TERMINAL – Not used.
- c. MOVE LIFT – (E616 elliptical only) Used to adjust a new lift motor. The Console displays “UP MX DN MN RT CAL”: Up arrow will move the lift motor to the maximum position; Down arrow will move the lift motor to the minimum position; Right arrow will perform a lift motor calibration by moving the lift motor to its minimum and maximum position. Note: Lift motor calibration is no longer required, so calibration is not needed.
- d. RESET MFG NVM – Resets MFG NVM (non volatile memory). Must be run before lift motor calibration if a valid lift table exists in NVM (lift motor has been calibrated before).
- e. RUN BEEP TEST – Sounds each system beep / tone / sequence in order. Press any key to exit
- f. RUN BUTTON TEST – The Console display shows the function of each button as buttons are pressed. If the display shows an incorrect function, the overlay on the Console may be incorrect for that model. If the display does not show a function, the firmware version may be incorrect. No beeps are sounded during this test.

To exit the test, push and hold one of the long key sequences (i.e. long Pause / End + Right or long Pause / End + Down).

- g. RUN LED TEST – Drives LEDs to the following states:
 1. All LEDs On 1 second

2. All LEDs Off 1 second
3. Sequence Segments 1 at a time – on 1 second, off 1 second

Press any key to exit test

- h. RUN LCD TEST – Drives 3x5 and 1x5 LCD displays with the following patterns:

1. All segments on
2. All segments off
3. Set individual segments one at a time until all segments are illuminated.

Press any key to exit.

- i. RESET CONSOLE – Resets the data from user inputs. The Console setup, user records and workout records will be reset to defaults. This option does not reset MFG NVM (non volatile memory).

13. The Console display shows the Software Version prompt.

14. For the next prompt, push the OK button.

15. The Console will display the Power-Up Mode screen.

Console Service Mode – x616 series (MY17) Consoles

The Console Setup Mode lets you input the date and time, set the units of measurement to either English or Metric, change the machine type, control the sound settings (on/ off), or see maintenance statistics (Total Run Hours – for service technician use only).

1. To go into the Console Setup Mode, hold down the PAUSE/END button and Increase (▲) button together for 3 seconds while in the Power-Up Mode.

Note: Push PAUSE/END to exit the Console Setup Mode and return to the Power-Up Mode screen.

2. The Console display shows the Date prompt with the current setting. To change, push the Increase/Decrease buttons to adjust the currently active value (flashing). Push the Left/Right buttons to change which segment is the currently active value (month / day / year).
3. Push OK to set.
4. The Console display shows the Time prompt with the current setting. Push the Increase/Decrease buttons to adjust the currently active value (flashing). Push the Left/Right buttons to change which segment is the currently active value (hour / minute / AM or PM).

5. Push OK to set.

6. The Console display shows the Units prompt with the current setting. To change, push OK to start the Units option. Push the Increase/Decrease buttons to change between “MILES” (Imperial English units) and “KM” (metric units).

Note: If the units change when there is data in User Statistics, the statistics convert to the new units.

7. Push OK to set.

8. The Console display shows the Sound Settings prompt with the current setting. Push the Increase/Decrease buttons to change between “ON” and “OFF”.

9. Push OK to set.

10. The Console display shows the TOTAL RUN HOURS for the machine.

To go to the next Console Setup Mode prompt, push the OK button.

To enter the Manufacturing Menu (MFG Menu), hold down the PAUSE/END button and Increase (▲) button together for 3 seconds while in the Power-Up Mode.

The Console display shows the Firmware Version string. Push the Up/Down buttons to move through the MFG Menu options. Push OK to make a selection.

- a. ENTER MFG TEST – This option is intended for use on the manufacturing production line only. It is a chained series of tests similar to the tests listed below, but optimized to be run on the production line. This chained test should not be used anywhere but on the production line.

- b. DEBUG TERMINAL – Not used.
- c. MOVE LIFT – (E618 elliptical only) Used to adjust a new lift motor. The Console displays “UP MX DN MN RT CAL”: Up arrow will move the lift motor to the maximum position; Down arrow will move the lift motor to the minimum position; Right arrow will perform a lift motor calibration by moving the lift motor to its minimum and maximum position. Note: Lift motor calibration is no longer required, so calibration is not needed.
- d. RESET MFG NVM – Resets MFG NVM (non volatile memory). Must be run before lift motor calibration if a valid lift table exists in NVM (lift motor has been calibrated before).
- e. RUN BEEP TEST – Sounds each system beep / tone / sequence in order. Press any key to exit
- f. RUN BUTTON TEST – The Console display shows the function of each button as buttons are pressed. If the display shows an incorrect function, the overlay on the Console may be incorrect for that model. If the display does not show a function, the firmware version may be incorrect. No beeps are sounded during this test.
To exit the test, push and hold one of the long key sequences (i.e. long Pause / End + Right or long Pause / End + Down).
- g. RUN LED TEST – Drives LEDs to the following states:
 - 1. All LEDs On 1 second
 - 2. All LEDs Off 1 second
 - 3. Sequence Segments 1 at a time – on 1 second, off 1 second
 Press any key to exit test
- h. RUN LCD TEST – Drives 3x5 and 1x5 LCD displays with the following patterns:
 - 1. All segments on
 - 2. All segments off
 - 3. Set individual segments one at a time until all segments are illuminated.
 Press any key to exit.
- i. RESET CONSOLE – Resets the data from user inputs. The Console setup, user records and workout records will be reset to defaults. This option does not reset MFG NVM (non volatile memory).

11. The Console display shows the Software Version prompt.

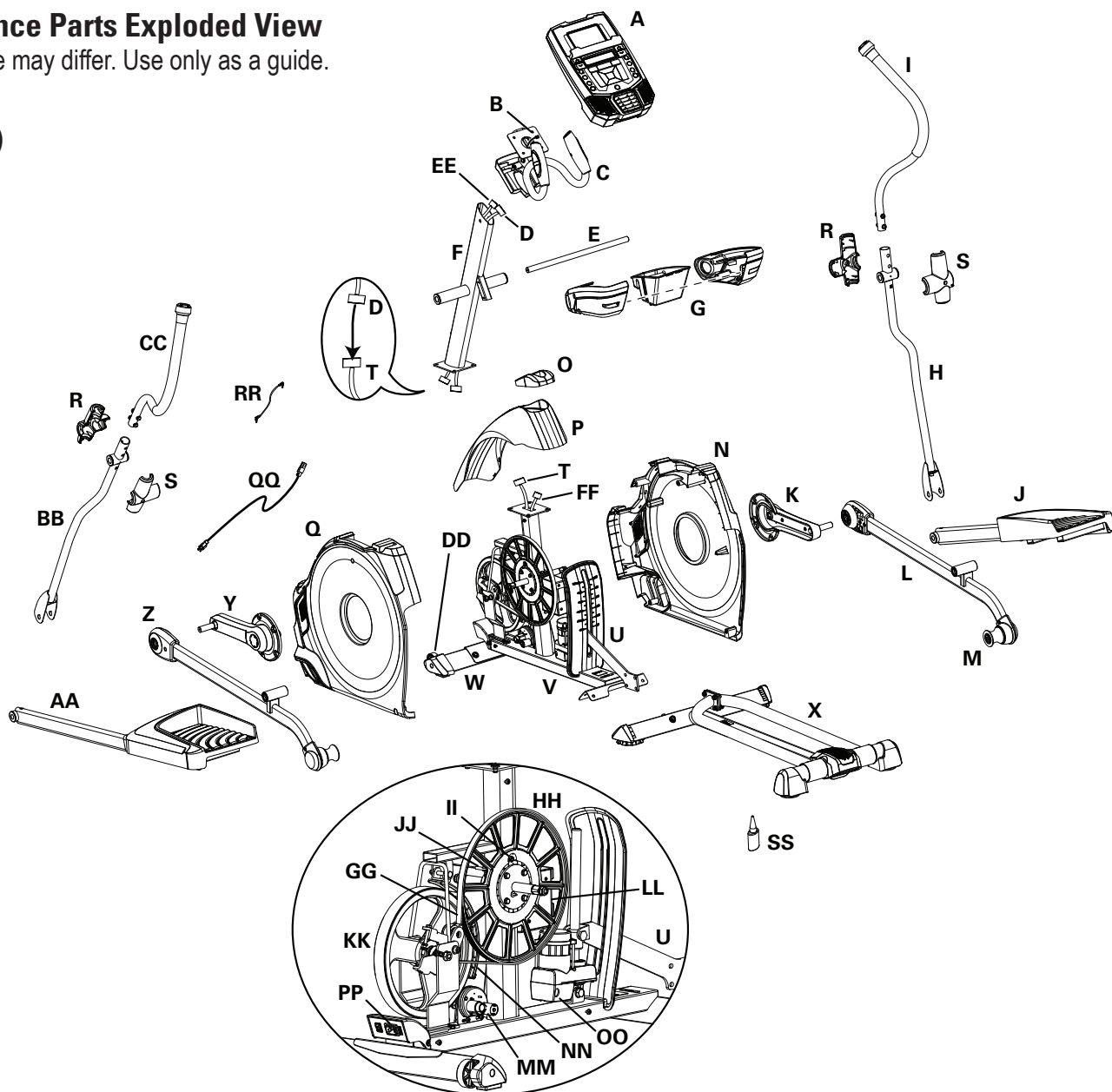
12. For the next prompt, push the OK button.

13 . The Console will display the Power-Up Mode screen.

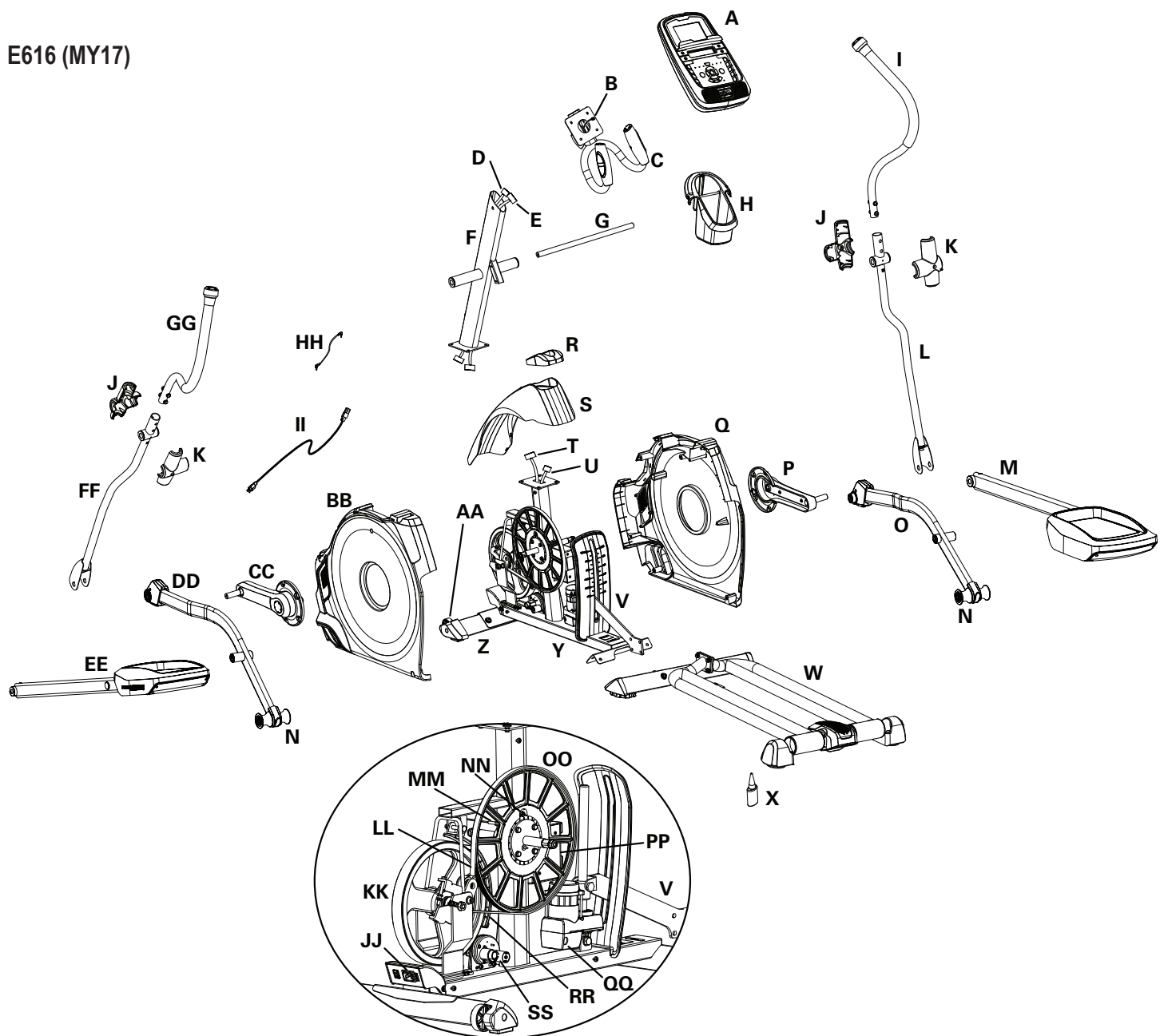
Maintenance Parts Exploded View

Your machine may differ. Use only as a guide.

E616 (MY14)



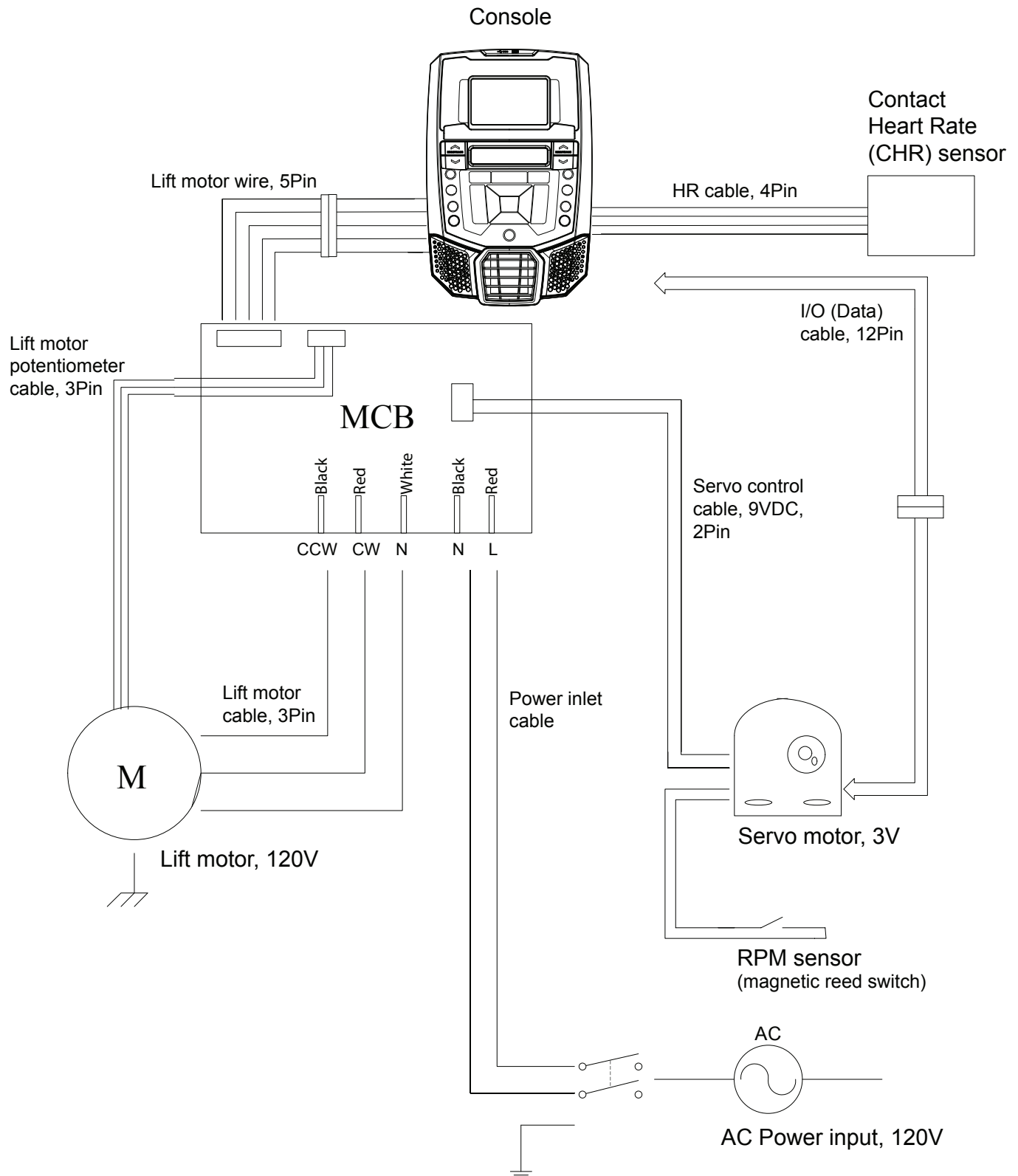
A	Console	P	Shroud, Upper	EE	Lift Motor Wire, Upper
B	Heart Rate (HR) Cable	Q	Shroud, Left	FF	Lift Motor Wire, Lower
C	Handlebar, Static	R	Handlebar Shroud, Outer	GG	Drive Belt
D	Data (I/O) Cable, Upper	S	Handlebar Shroud, Inner	HH	Drive Pulley
E	Arm Pivot Rod	T	Data (I/O) Cable, Lower	II	Speed Sensor Magnet
F	Console Mast	U	Incline Adjuster Assembly	JJ	RPM (Speed) Sensor
G	Water Bottle Holder	V	Frame Assembly	KK	Flywheel
H	Handlebar Arm, Lower Right	W	Front Stabilizer	LL	Motor Control Board (MCB)
I	Handlebar Arm, Upper Right	X	Rail Assembly	MM	Servo Motor
J	Pedal Arm, Right	Y	Crank Assembly, Left	NN	Brake Assembly
K	Crank Assembly, Right	Z	Leg, Left	OO	Incline Motor Assembly
L	Leg, Right	AA	Pedal Arm, Left	PP	Power Switch
M	Roller	BB	Handlebar Arm, Lower Left	QQ	AC Power Cord
N	Shroud, Right	CC	Handlebar Arm, Upper Left	RR	Media Cable
O	Shroud Cap	DD	Transport Wheel Assembly	SS	Silicone Lubricant, Bottle



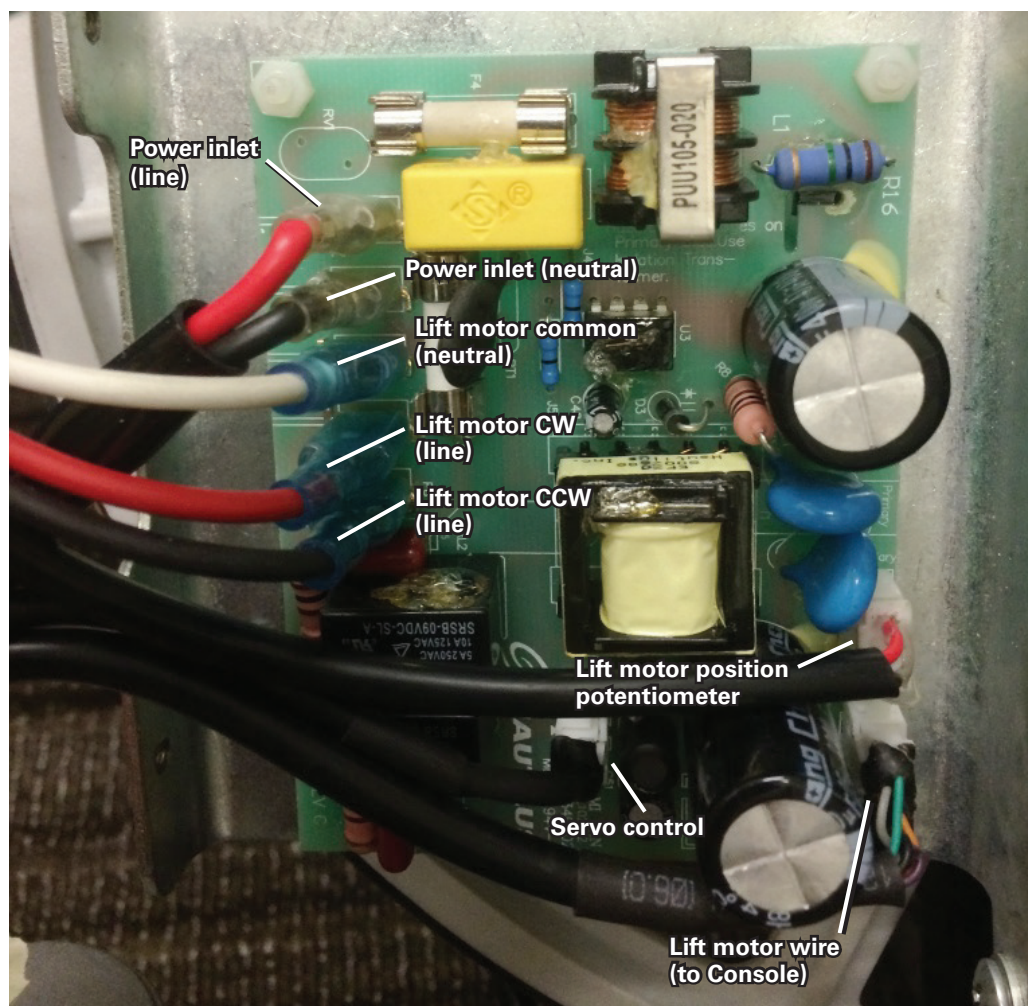
A	Console	P	Crank Assembly, Right	EE	Pedal Arm, Left
B	Heart Rate (HR) Cable	Q	Shroud, Right	FF	Handlebar Arm, Lower Left
C	Handlebar, Static	R	Shroud Cap	GG	Handlebar Arm, Upper Left
D	Data (I/O) Cable, Upper	S	Shroud, Upper	HH	Media Cable
E	Lift Motor Wire, Upper	T	Lift Motor Wire, Lower	II	AC Power Cord
F	Console Mast	U	Data (I/O) Cable, Lower	JJ	Power Switch
G	Arm Pivot Rod	V	Incline Adjuster Assembly	KK	Flywheel
H	Water Bottle Holder	W	Rail Assembly	LL	Drive Belt
I	Handlebar Arm, Upper Right	X	Silicone Lubricant, Bottle	MM	RPM (Speed) Sensor
J	Handlebar Shroud, Outer	Y	Frame Assembly	NN	Speed Sensor Magnet
K	Handlebar Shroud, Inner	Z	Front Stabilizer	OO	Drive Pulley
L	Handlebar Arm, Lower Right	AA	Transport Wheel Assembly	PP	Motor Control Board (MCB)
M	Pedal Arm, Right	BB	Shroud, Left	QQ	Incline Motor Assembly
N	Roller	CC	Crank Assembly, Left	RR	Brake Assembly
O	Leg, Right	DD	Leg, Left	SS	Servo Motor

Electrical Layout

NLS E616 Wiring Diagram



Motor Control Board (MCB)



The MCB shown is on an E626 (MY 2014) machine.

REPLACEMENT PROCEDURE SKILL LEVEL

Level I :	Low - very little mechanical knowledge or exposure.
Level II :	Intermediate - some experience with mechanical procedures
Level III :	Advanced - knowledgeable about mechanical procedures

DANGER

To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.



When disposing of old parts, obey the applicable local and provincial requirements.

For instructions to replace the following parts, please refer to the Assembly Manual for your machine:

- Power Cord

NOTICE: This document provides instructions for the adjustment of the Drive Belt tension on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

! This icon means a potentially hazardous situation which, if not avoided, could result in death or serious injury. Read and understand all Warnings on this machine.

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Important Safety Instructions - Before servicing or using this equipment, obey the following warnings:

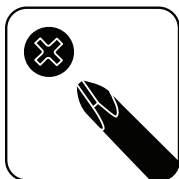
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DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



10mm open end wrench (2)
13mm open end wrench



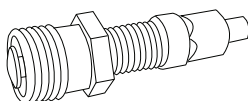
Small flathead screwdriver



14mm socket and wrench



Crank puller



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.

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Note: Your machine may not match the image. For reference only.

1. Remove the Left Shroud from the Main Unit. Refer to the “Replace the Shrouds” procedure.

2. To test the Drive Belt tension:

- Push the Drive Belt downward at the midpoint (M) between the pulleys and measure the distance. The Drive Belt should have only 0.25” (0.64 cm) of give. See Figure 1.

Or:

- Hold the edges of the Drive Belt at the midpoint (M) and twist it (see Figure 2). It should turn only 90 degrees (1/4 turn, to vertical).

If the tension is correct, go to Step 6.

If the tension is too loose or too tight, adjust the nuts and bolt on the Tensioner Assembly (Idler Assembly). Continue to Step 3.

Figure 1

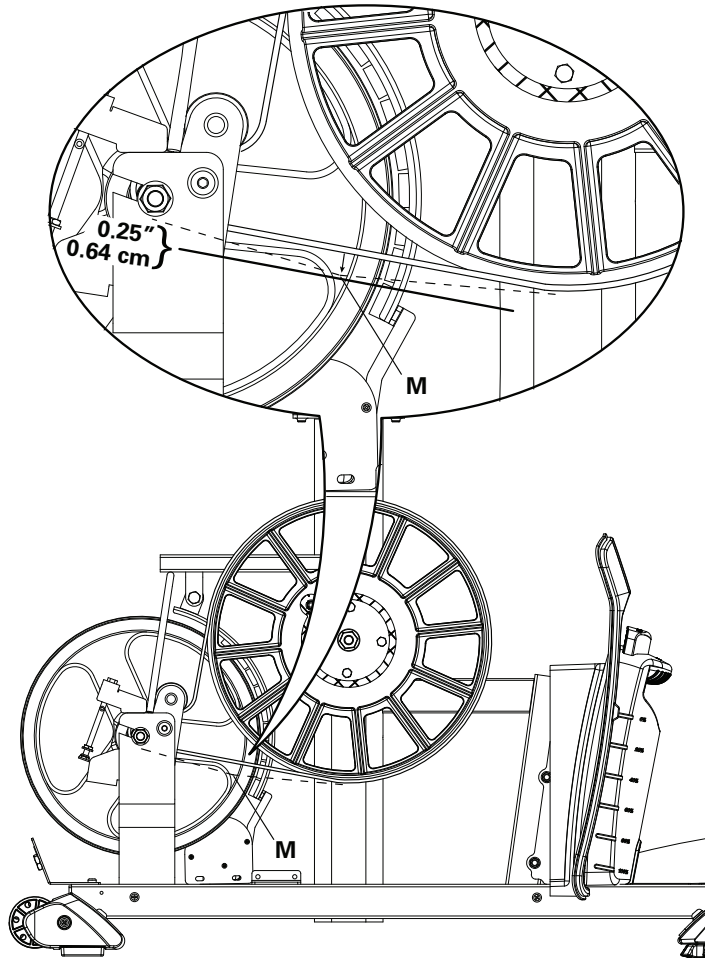


Figure 2



3. To adjust the nuts (C) on the Tensioner Assembly (A), use a 10mm open end wrench to hold the bolt (B) steady and turn the nuts with a second 10mm open end wrench.
4. When the tension is correct, tighten the nuts (C) against the Tensioner Bracket (D) to hold the bolt (B) and the Tensioner Assembly (A) in position.

Note: This step may require two people.

5. Carefully turn the crank arm and check the movement of the drive belt. The Crank Arms and Flywheel should move as one.

! Be sure to keep fingers clear of all pinch hazards when you turn the Drive Pulley.

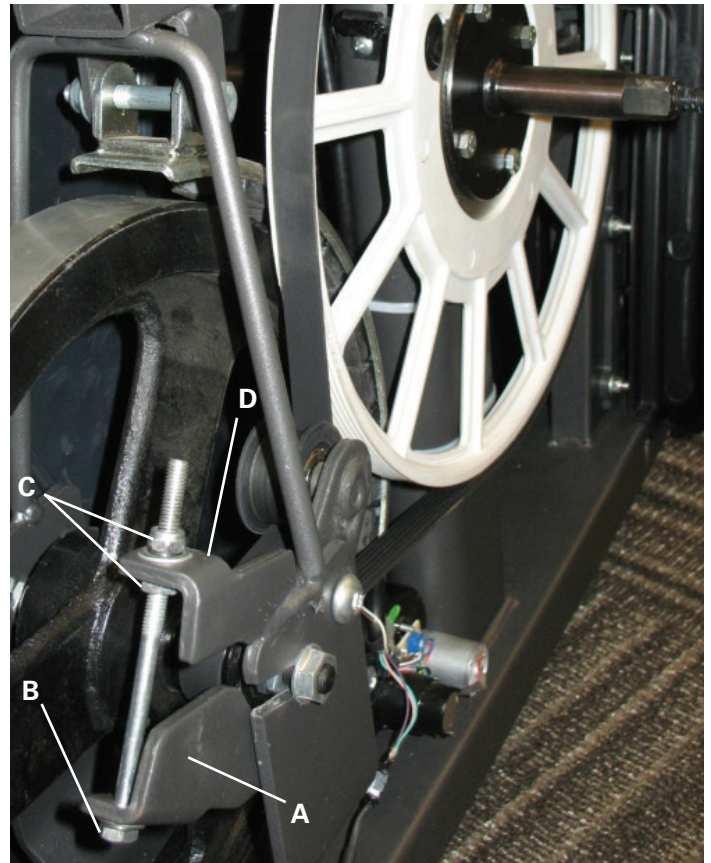
Adjust the belt tension again if necessary.

6. Reassembly is the reverse procedure.
NOTICE: Be sure not to crimp any cables.

7. Final Inspection

Inspect your machine to ensure that all hardware is tight and components are properly assembled.

! Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



NOTICE: This document provides instructions for the calibration of the Brake tension on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com



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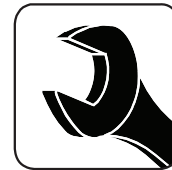
- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
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- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



7mm open end wrench
13mm open end wrench



Small flathead screwdriver

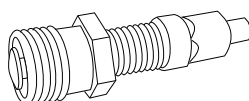


2.5" x 10" cardboard (3mm / 1/8" thick) and tape

13mm socket and wrench
14mm socket and wrench



Crank puller



NOTICE: It is necessary to remove the shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.

Note: Your machine may not match the image. For reference only.

1. Turn the power off and on.

E614— disconnect and reconnect the AC Adapter from the wall outlet.

E616— turn the Power Switch off and back on.

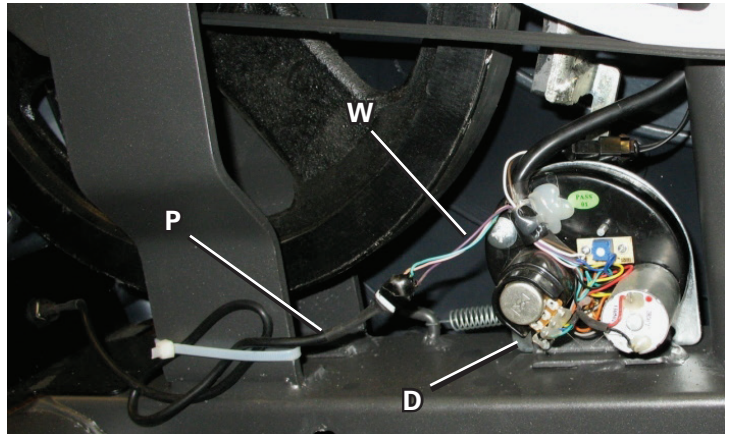
2. Push QuickStart and verify that the console shows that the default resistance level is 4.



Disconnect all power and allow to sit for 5 minutes.

3. Carefully remove the Left Shroud and Right Shroud. (Refer to the “Replace the Shrouds” procedure.) Turn the Top Shroud to keep it clear of the pulley assembly. Keep the Power Inlet cable (P) in the Shroud connected to the wiring harness (W) on the motor (D).

Note: If it is necessary to remove the Top Shroud, reinstall the Console and Mast.



Left side

4. Insert 2.5" x 10" cardboard between the Brake Magnet (A) and the Flywheel (B), and tape the cardboard to the Brake Magnet.

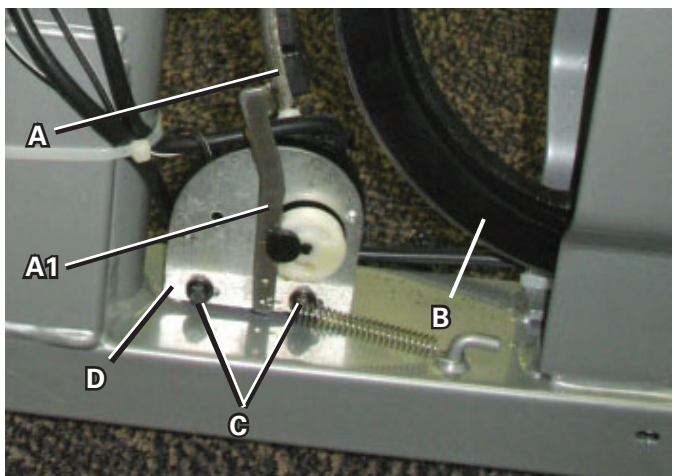
Note: Be sure the cardboard covers all of the Brake Magnet.

4. Turn the power on again.



Machine is on. Current is active. There is risk of electrical shock.

5. Use the console to set the resistance to the highest level. This moves the Brake Magnet Arm (A1) forward. After the Brake Magnet Arm stops at the highest resistance level, turn power off.



Right side



Disconnect all power and allow to sit for 5 minutes.

6. To adjust the Brake tension, loosen the 2 hex head bolts (C) and move the Servo Motor assembly (D) until the closest point on the Brake Magnet (A) is within 3.0 mm (1/8") of the Flywheel (B). Tighten the bolts.

Note: If the cardboard is not 3mm (1/8") thick, you can use the pages of a paperback book to measure the gap. Approximately 36 pages (sheets) = 3mm.

7. Turn the power on again. Use the console to check the resistance adjustment.



Machine is on. Current is active. There is risk of electrical shock.

Note: Before fully attaching the Shrouds, remove the cardboard from between the Brake Magnet (A) and the Flywheel (B). Power up the machine to verify that the Magnet Arm can move freely, and that the Brake Magnet and Flywheel do not touch.

8. Final Inspection

Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Console on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
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- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



6mm hex key



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Note: Your machine may not match the image. Model Year 2014 (MY14) is shown. For reference only.

1. MY14 model only—Loosen and remove the screw (A) that attaches the Console Junction Cover (C) to the Console. Set the screw safely aside for reassembly.

2. MY14 model only—To get access to the mount plate, carefully loosen and remove the hardware (B) that attaches the Static Handlebar Assembly to the Mast using a 6mm hex key. Slide the Console Junction Cover (C) down the Mast. Reinstall 1 bolt to hold the Static Handlebar Assembly in position on the Mast. Set the other hardware safely aside for reassembly.

NOTICE: Do not let the Console and Static Handlebar Assembly fall.
This step may require two people.

3. Remove screws (D) that attach the Console to the Static Handlebar Assembly. Carefully lift the Console off the Mast.

4. Disconnect the Data Cable, Lift Motor Cable and Heart Rate Cable from the back of the Console. Set the Console and screws safely aside.

Note: Do not let the cables fall down inside the Mast. This step may require two people.

5. Installation is the reverse procedure.

6. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

! Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

Initial Setup

During the first power-up, the Console should be set up with the date, time and your preferred measurement units.

1. Date: Push the Increase/Decrease buttons to adjust the currently active value (flashing). Push the Left/Right buttons to change which segment is the currently active value (month / day / year).

2. Push OK to set.

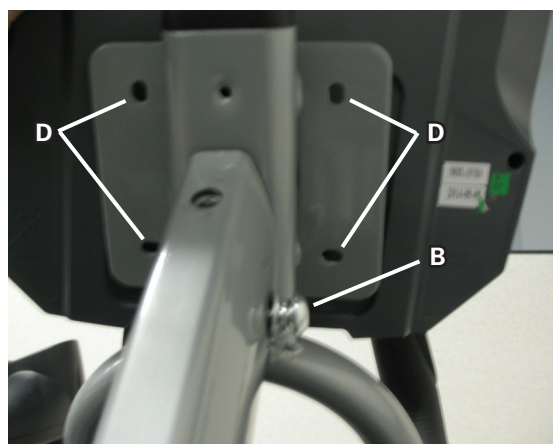
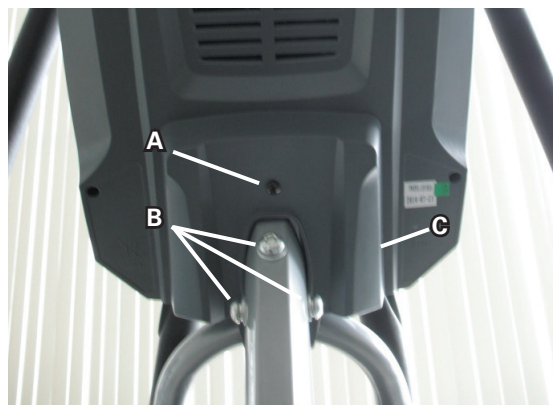
3. Time: Push the Increase/Decrease buttons to adjust the currently active value (flashing). Push the Left/Right buttons to change which segment is the currently active value (hour / minute / AM or PM).

4. Push OK to set.

5. Units of Measurement: Push the Increase/Decrease buttons to adjust between "MILES" (Imperial English) or "KM" (metric).

6. Push OK to set. The Console goes back to the Power-Up / Idle Mode screen.

Note: To adjust these selections, consult the "Console Service Mode" section.



NOTICE: This document provides instructions for the replacement of the Static Handlebar Assembly on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

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- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
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Tools Required (not included)

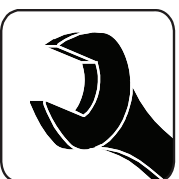
#2 Phillips screwdriver



6mm hex key



10mm open end wrench





To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. Model Year 2014 (MY14) is shown. For reference only.

1. MY14 model only—Loosen and remove the screw (A) that attaches the Console Junction Cover (C) to the Console. Set the screw safely aside for reassembly.

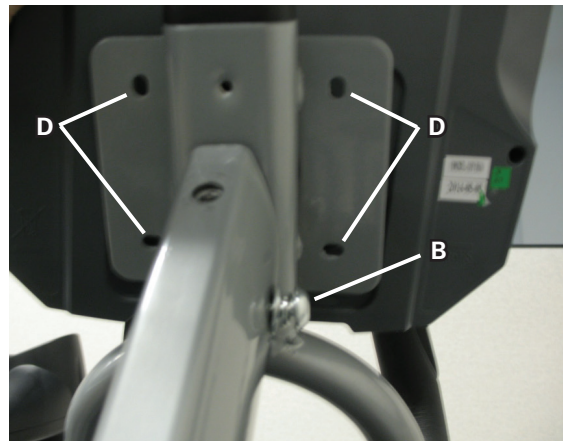
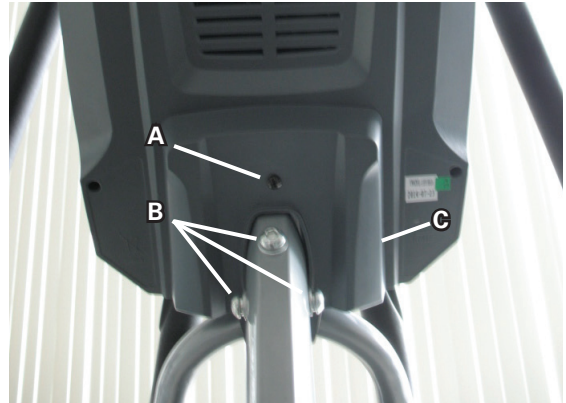
2. MY14 model only—To get access to the mount plate, carefully loosen and remove the hardware (B) that attaches the Static Handlebar Assembly to the Mast using a 6mm hex key. Slide the Console Junction Cover (C) down the Mast. Reinstall 1 bolt to hold the Static Handlebar Assembly in position on the Mast. Set the other hardware safely aside for reassembly.

NOTICE: Do not let the Console and Static Handlebar Assembly fall. This step may require two people.

3. Remove screws (D) that attach the Console to the Static Handlebar Assembly. Carefully lift the Console off the Mast.

4. Disconnect the Data Cable, Lift Motor Cable and Heart Rate Cable from the back of the Console. Set the Console and screws safely aside for reassembly.

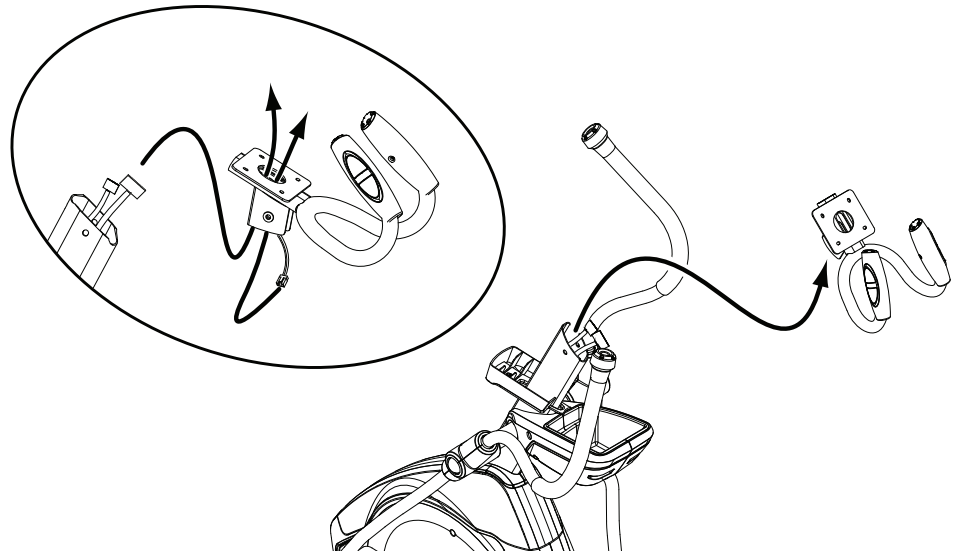
Note: Do not let the cables fall down inside the Mast. This step may require two people.



5. Using a 6 mm hex key, remove the remaining bolt (B, from Step 2) again, and remove the Static Handlebar.

NOTICE: Do not crimp the cables when removing the Static Handlebar.
Do not allow the cables to fall down into the Console Mast. Use a rubber band or wire tie.

MY14 static handlebar shown



6. Installation is the reverse procedure.

NOTICE: Do not crimp the cables.

7. Dispose of the old parts.

8. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Upper and Lower Handlebar Arms on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

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DANGER

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
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- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



#2 Phillips screwdriver
(E616 only)



Small flathead screwdriver



13mm open end wrench

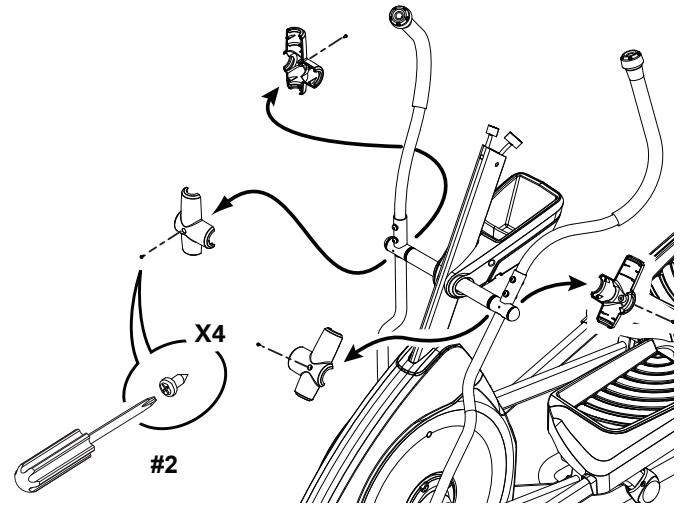




To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

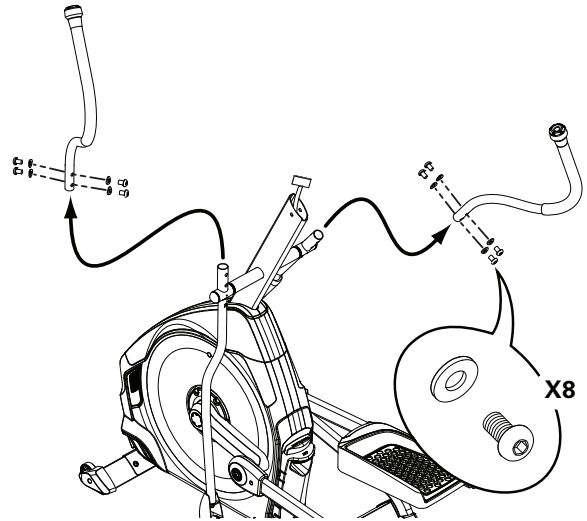
1. E616 only—loosen and remove the 4 screws from the Handlebar Shrouds. Remove the Handlebar Shrouds and set them safely aside.



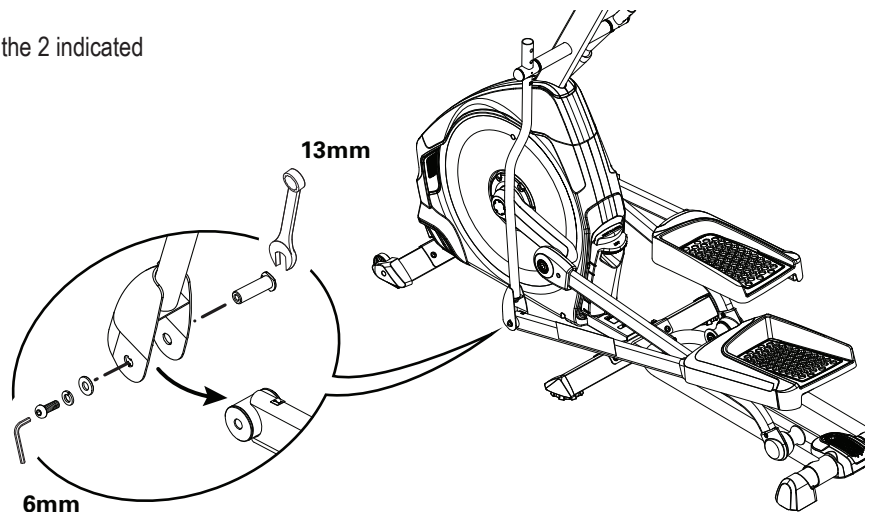
Console-static handlebar not shown for clarity

2. Using a 6 mm hex wrench, remove the 8 indicated bolts from the Upper Handlebar Arms.

3. Remove the Upper Handlebar Arms and set them safely aside.

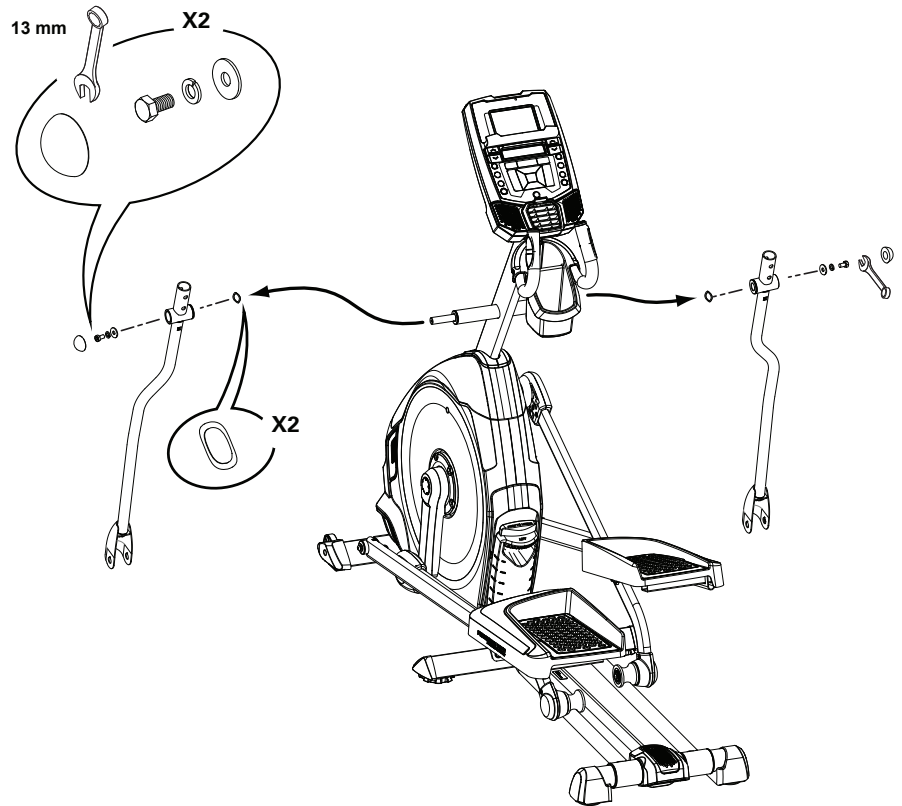


4. Using a 6 mm hex wrench and a 13 mm wrench, remove the 2 indicated bolts from the Lower Handlebar Arms and Pedals.



5. Using a small Flathead screwdriver, pry the Caps from the Lower Handlebar Arms.

6. Using a 13 mm wrench, remove the hardware from the Lower Handlebar Arms and the Arm Pivot. Remove the Handlebar Arms and set them safely aside.



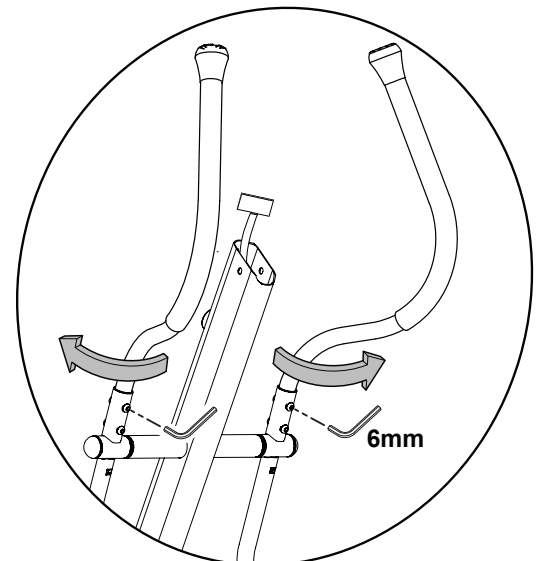
7. Installation is the reverse procedure.

! Make sure the Upper Handlebar Arms are secure before you exercise.

8. Discard the old parts.

9. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

! Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



NOTICE: This document provides instructions for the replacement of the Crank Arms on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If necessary request replacement warning stickers or placards from your local distributor.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex wrench



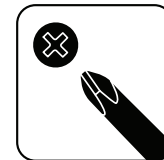
14mm socket and wrench



Small flathead screwdriver



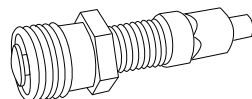
#2 Phillips screwdriver



13mm open end wrench



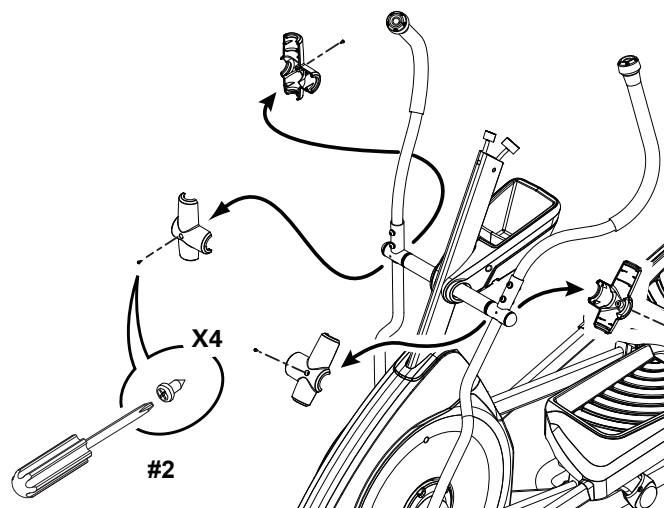
Crank puller



! To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

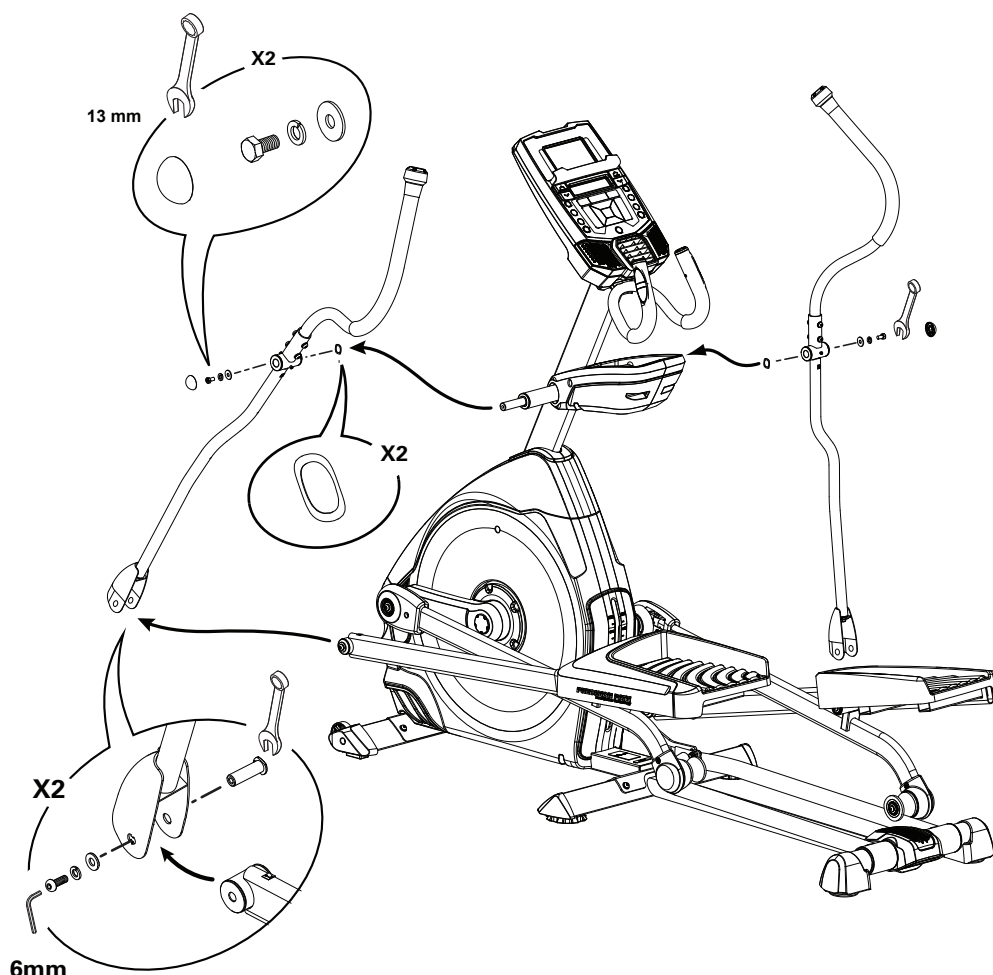
1. Using a #2 Phillips screwdriver, remove the 4 screws from each set (right and left) of the Handlebar Shrouds. After removing the hardware, pinch the Handlebar Shrouds to unsnap them from each other. Place them safely aside.



Console-static handlebar not shown for clarity

2. Using a 6mm hex wrench and a 13mm wrench, remove the indicated bolts from the Lower Handlebar Arms and Pedals. Set the hardware safely aside for reassembly.

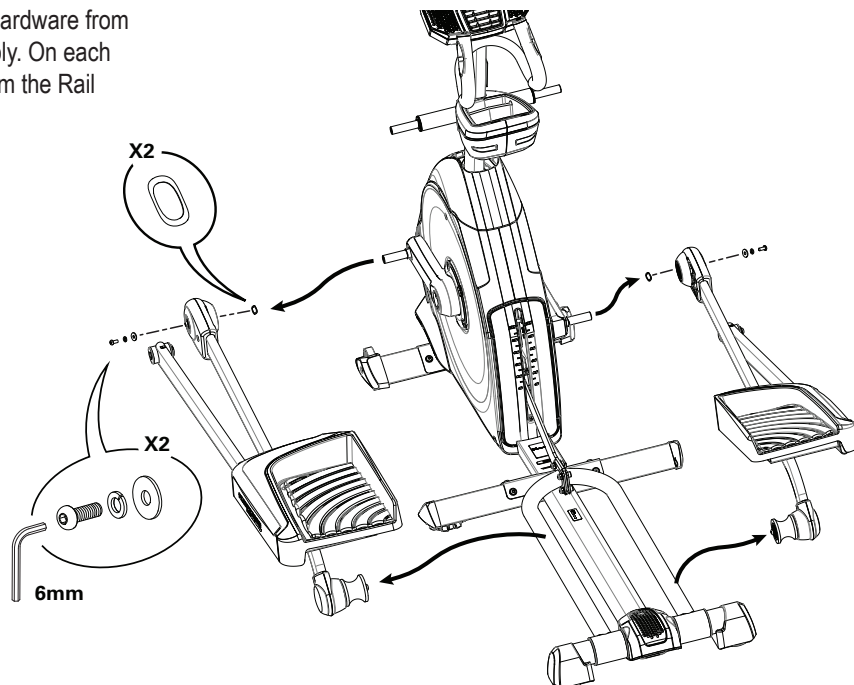
! Be aware that the Handlebar Arms will be loose and may pivot when the hardware is removed. This step may require two people.



3. Using a 6mm hex wrench and a 13mm wrench, remove the indicated hardware from the Arm Pivot Rod. Remove the hardware and the Upper and Lower Handlebar Arms. Set them safely aside for reassembly.

4. Using a 6mm hex key, loosen and remove the indicated hardware from the Crank Arm and Leg, and set it safely aside for reassembly. On each side of the machine, remove the Leg and Pedal together from the Rail Assembly and set them safely aside for reassembly.

NOTICE: This step may require two people.



5. Using a small standard screwdriver, gently pry the cap off of the Crank Arm.

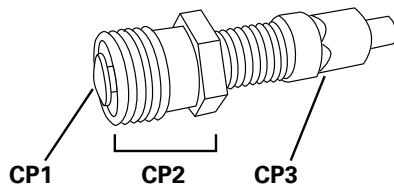


6. Using a 14mm socket and ratchet, remove the Lock Nut from the Crank Arm.



7. Thread the Crank Puller into the Crank Arm. When the Crank Puller is in the correct position, only 1-2 threads on the outer portion (CP2) of the Crank Puller should show.

Note: Be sure the end of the Bolt (CP1) of the Crank Puller is flush with the Nut (CP2) as shown, before use.



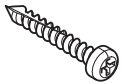
8. Using a wrench, turn the inner portion (CP3) of the Crank Puller clockwise. The Crank Arm will slide off as it is tightened.

Note: Be advised that it may take a lot of force to get the Crank Puller to start to slide off the Crank Arm.

9. Installation is the reverse procedure. Put the Left Shroud in position first to align the screws for the Right Shroud. Install the top screws first. Be sure the tabs in the Motorized Lift Cover snap into the Side Shrouds.

NOTICE: This step may require two people. Be sure not to crimp any cables.

Note: Self-tapping screws attach the Shrouds to the Frame.



Installation does not require the use of the crank puller. Be sure the Crank Arms are connected at 180° from each other.



10. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Pedals and Legs on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



13mm open end wrench



Small flathead screwdriver

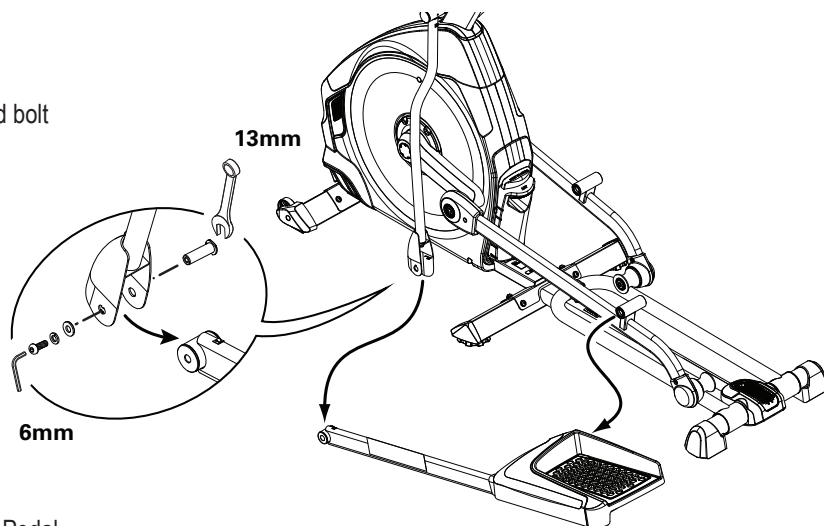




To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

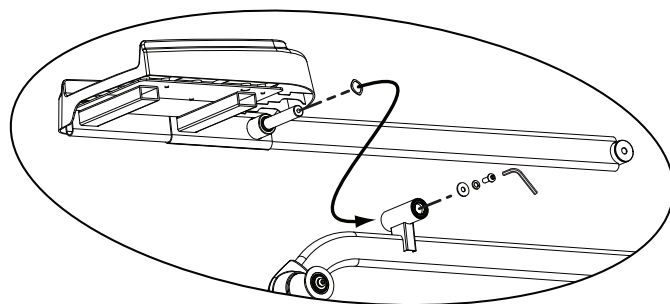
1. Using a 6 mm hex key and 13mm wrench, remove the indicated bolt and washers from below the Pedal.



2. Using a 6 mm hex wrench, remove the indicated bolts from the Pedal and Lower Handlebar Arm.



Be aware that the Handlebar Arms will be loose and may pivot when the hardware is removed.



3. Remove the Pedal.

4. Using a 6mm hex key, loosen and remove the indicated hardware and remove the Leg.

5. Repeat steps on opposite side.

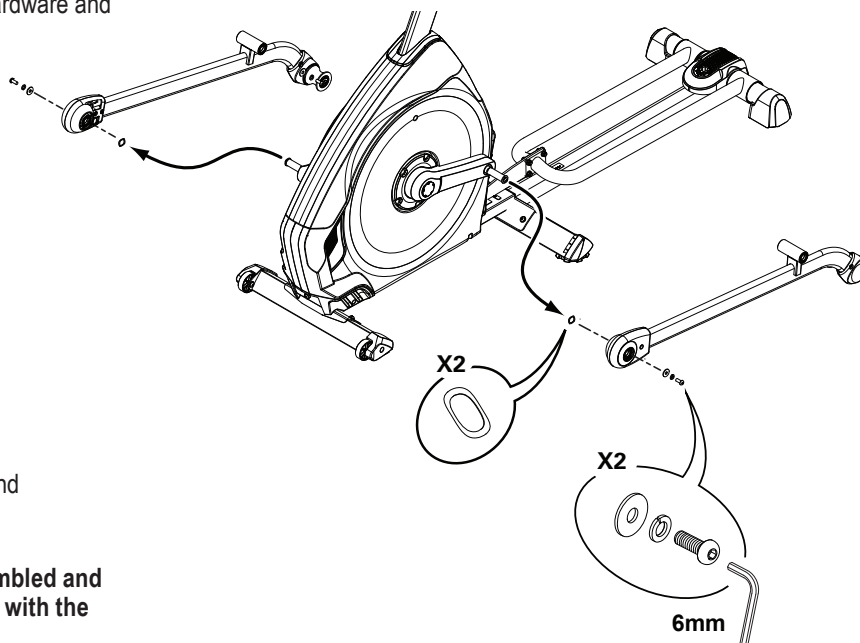
6. Installation is the reverse procedure.

7. Discard the old parts.

8. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



NOTICE: This document provides instructions for the replacement of the Front Stabilizer on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



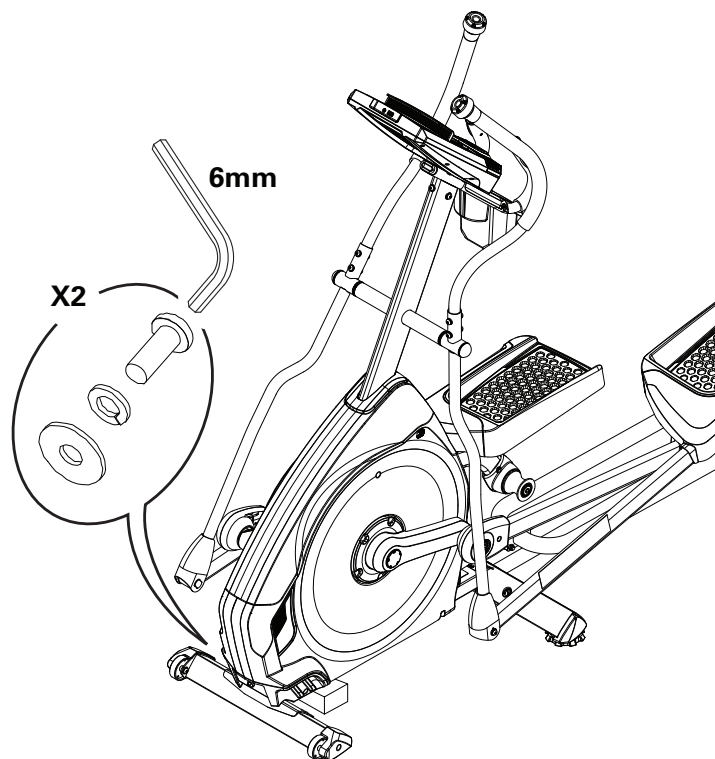


To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

NOTICE: This procedure requires two or three people.

1. Place a static object (like a book or box) under the front of the main frame but not under the Front Stabilizer. The static object should not be compressible.
2. Loosen and remove the 2 bolts that attach the Front Stabilizer using a 6 mm hex key. Remove the Front Stabilizer.



3. Installation is the reverse procedure.
4. Dispose of the old part.
5. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Rail Assembly on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



Static solid object (like a book or box)

13mm open end wrench



Small flathead screwdriver



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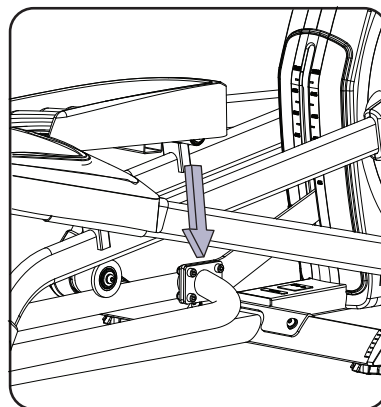
Note: Your machine may not match the image. For reference only.

1. Be sure the Incline Assembly on the Rail Assembly is fully lowered.

! Do not adjust the incline angle when on the machine.
Be sure the area below the machine is clear before lowering.

Push the Incline Level Decrease (▼) button to change the incline angle of the rail assembly, or push the 0% Incline Level Quick Button.

! Disconnect all power and allow to sit for 5 minutes.

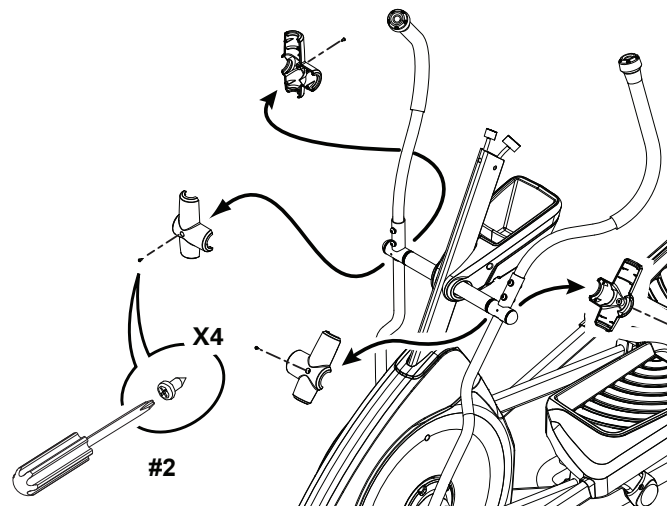


2. Carefully lift the Leg and Pedal together to move the Roller off the Rail and set it on the floor to the outside of the Rail Assembly. If you have access to the hardware that attaches the Incline Adjuster to the Rail Assembly, continue to Step 7.

If additional space is required for removal and installation, continue to Step 3.



3. Loosen and remove the 4 screws from the Handlebar Shrouds. Remove the Handlebar Shrouds and set them safely aside.

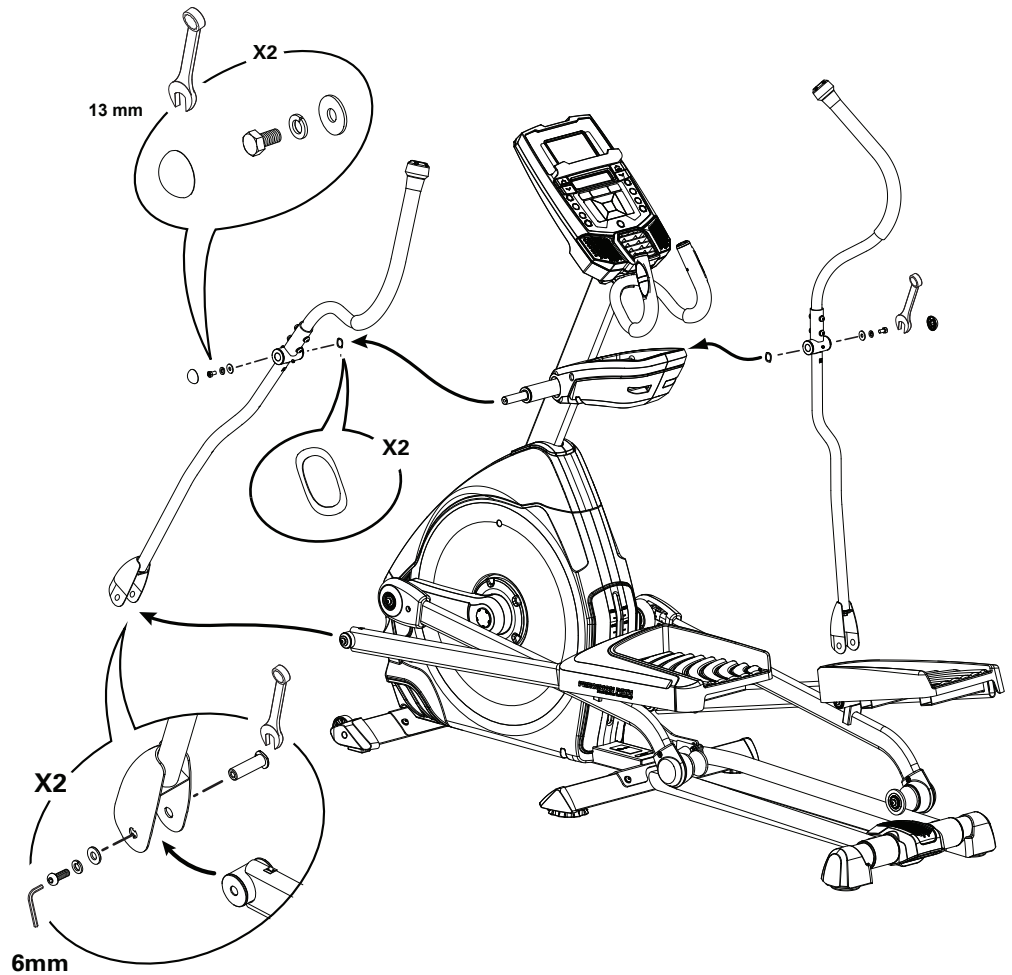


Console-static handlebar not shown for clarity

4. Using a 6mm hex key and a 13 mm wrench, remove the 2 indicated bolts from the Lower Handlebar Arms and Pedals. Set the hardware safely aside for reassembly.

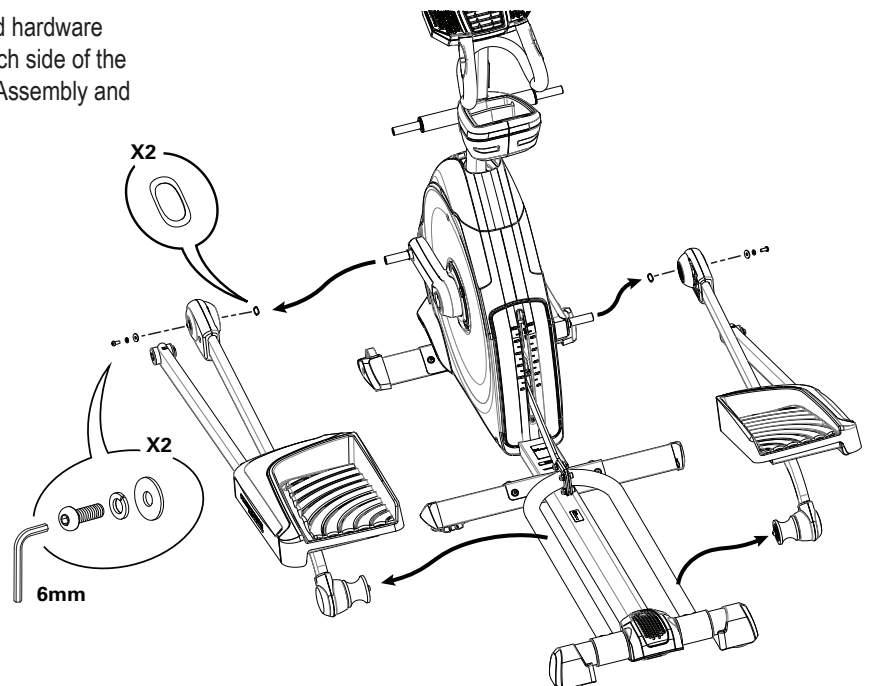
! Be aware that the Handlebar Arms will be loose and may pivot when the hardware is removed. This step may require two people.

5. Using a 13 mm wrench, remove the hardware from the Lower Handlebar Arms and the Arm Pivot Rod. Remove the hardware, and Upper and Lower Handlebar Arms. Set them safely aside for reassembly.

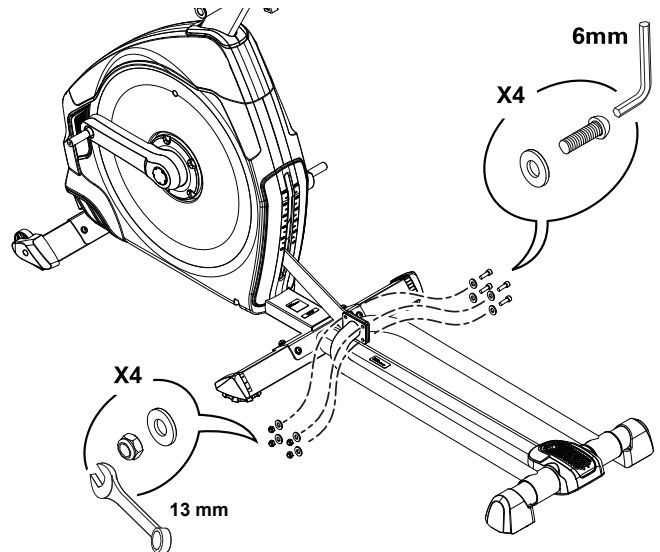


6. Using a 6mm hex key, loosen and remove the indicated hardware from the Legs, and set it safely aside for reassembly. On each side of the machine, remove the Leg and Pedal together from the Rail Assembly and set them safely aside for reassembly.

NOTICE: This step may require two people.



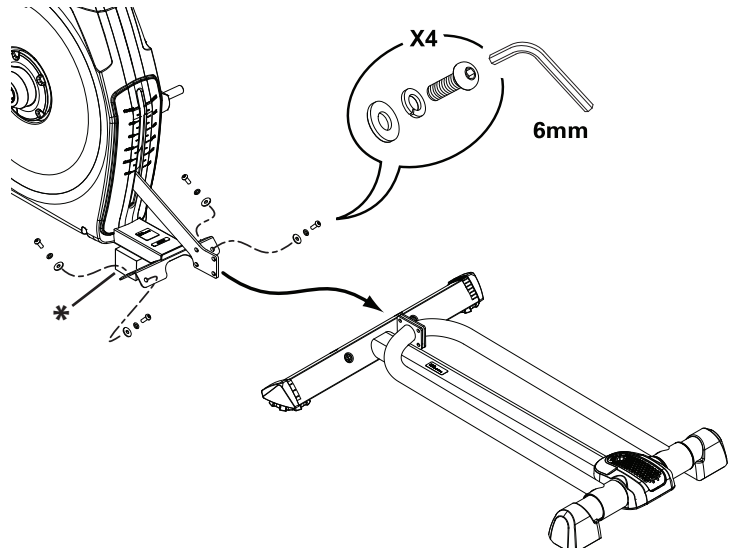
7. Using a 6mm hex key, remove the 4 bolts that attach the Incline Adjuster to the Rail Assembly. Set the hardware safely aside for reassembly.



8. Place a static object (like a book or box) under the back of the main frame but not under the Rail Assembly. The static object (*) should not be compressible.

9. Using a 6mm hex key, remove the 4 bolts that attach the Rail Assembly to the Frame Assembly.

⚠ Be aware that the Frame Assembly may be unstable and slightly top heavy.



10. Remove the Rail Assembly.

⚠ The machine may be moved by one or more persons depending on their physical abilities and capacities. Make sure that you and others are all physically fit and able to move the machine safely.

NOTICE: This step may require two people.

11. Installation is the reverse procedure.

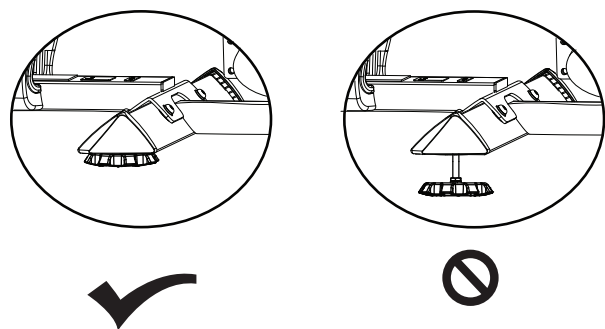
Note: Be sure Levelers are fully raised on Rail Assembly.

⚠ Be aware that the Frame Assembly may be unstable and slightly top heavy. This step may require two people.

12. Dispose of the old parts.

13. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

⚠ Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



NOTICE: This document provides instructions for the replacement of the Transport Wheels, Front Endcaps and Footpads on the Nautilus™ U614 and U616 Upright Bikes, R614 and R616 Recumbent Bikes, and E614 and E616 Elliptical Fitness Machines (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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Important Safety Instructions - Before servicing or using this equipment, obey the following warnings:

! Read and understand the Service Manual before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.

Disconnect all power to the machine before you service it.

- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine replacement parts and hardware supplied by Nautilus. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not put the machine back in service until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



Static solid object (like a book or box)

#2 Phillips screwdriver (short)



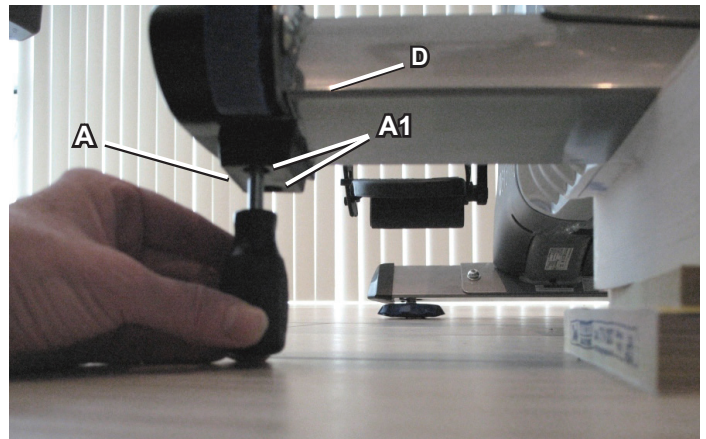
13mm open end wrench



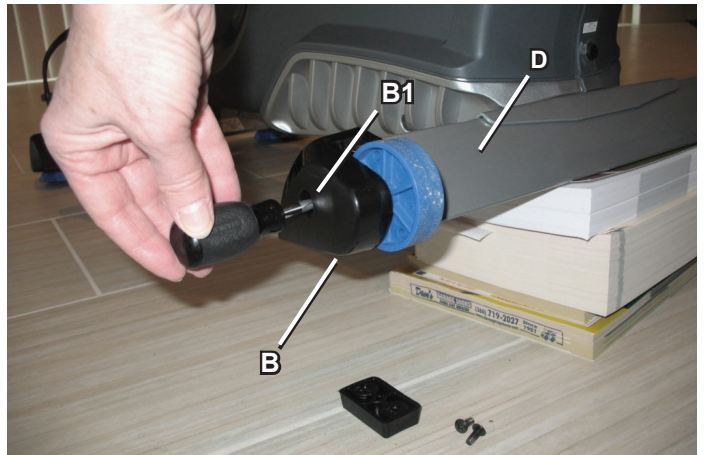
Note: Your machine may not match the image. For reference only.

1. Place a static object (like a book or box) under the front stabilizer (C). The static object should not be compressible.

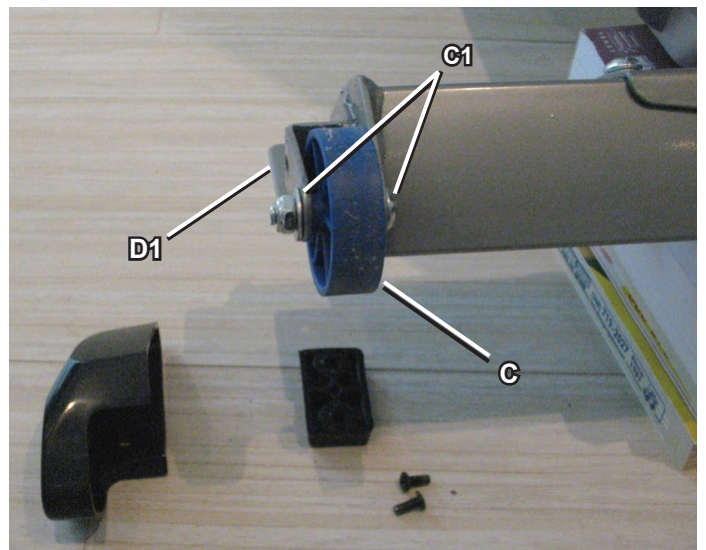
2. Using a short #2 Phillips screwdriver, loosen and remove the screws (A1) from the Footpad (A), and set them safely aside. Remove the Footpad from the front stabilizer (D). Set the Footpad and screws safely aside.



3. Loosen and remove the screw (B1) from the Endcap assembly (B) and set it safely aside. Remove the Endcap from the front stabilizer (D). Set the Endcap and screw safely aside.



4. Using the 6mm hex key and 13mm wrench, loosen and remove the hardware (C1) from the old Transport Wheel assembly (C). Remove the old Transport Wheel from the front stabilizer bracket (D1). Set the Transport Wheel and hardware safely aside.



5. Installation is the reverse procedure.

NOTICE: Before fully attaching the Endcap, be sure that the Transport Wheel can turn freely.

6. Dispose of the old parts.

7. Final Inspection

Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Shrouds on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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Important Safety Instructions - Before servicing or using this equipment, obey the following warnings:

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DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



14mm socket and wrench



Small flathead screwdriver



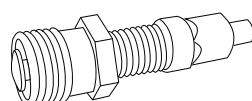
#2 Phillips screwdriver



13mm open end wrench
18mm open end wrench



Crank puller

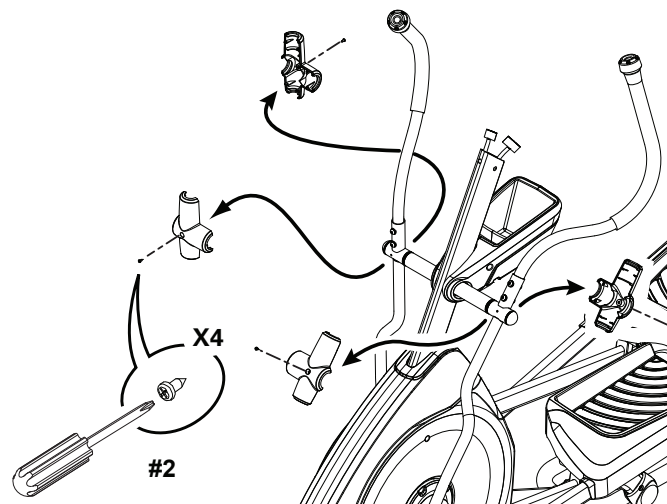




To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

1. Loosen and remove the 4 screws from the Handlebar Shrouds. Remove the Handlebar Shrouds and set them safely aside.



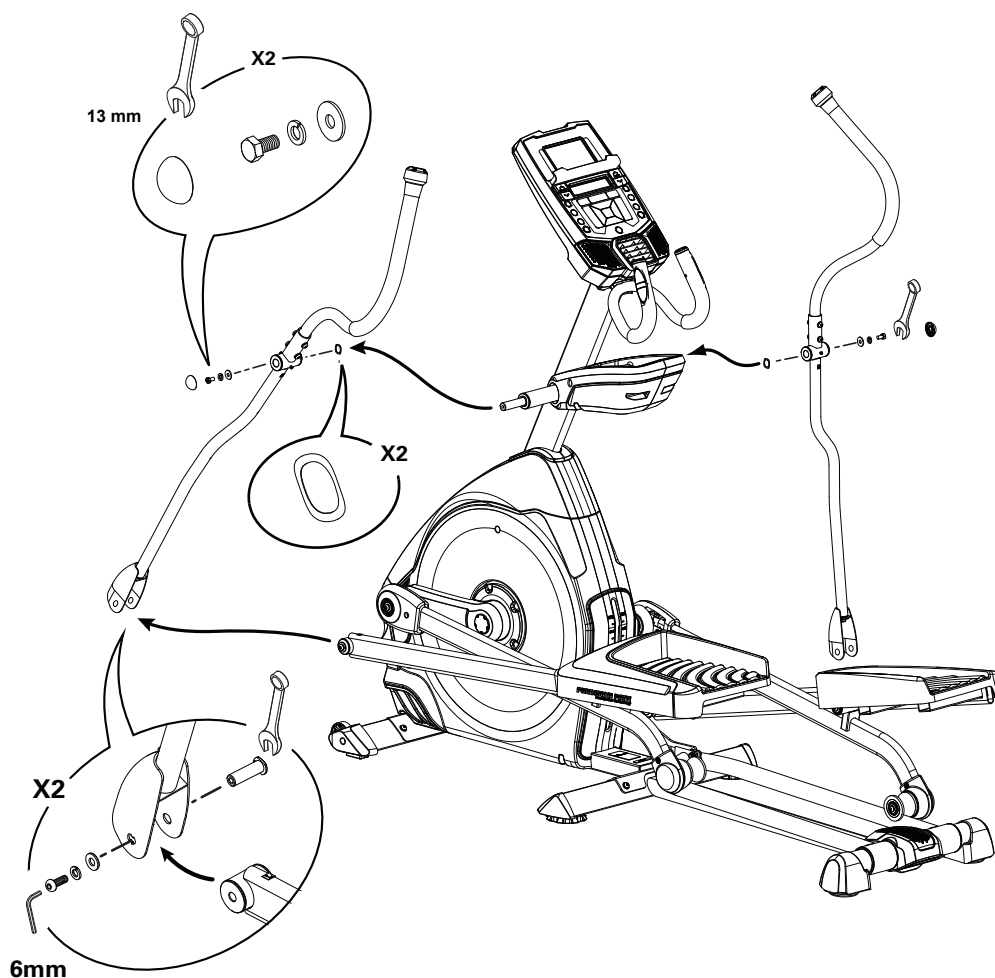
Console-static handlebar not shown for clarity

2. Using a 6mm hex key and a 13 mm wrench, remove the 2 indicated bolts from the Lower Handlebar Arms and Pedals. Set the hardware safely aside for reassembly.



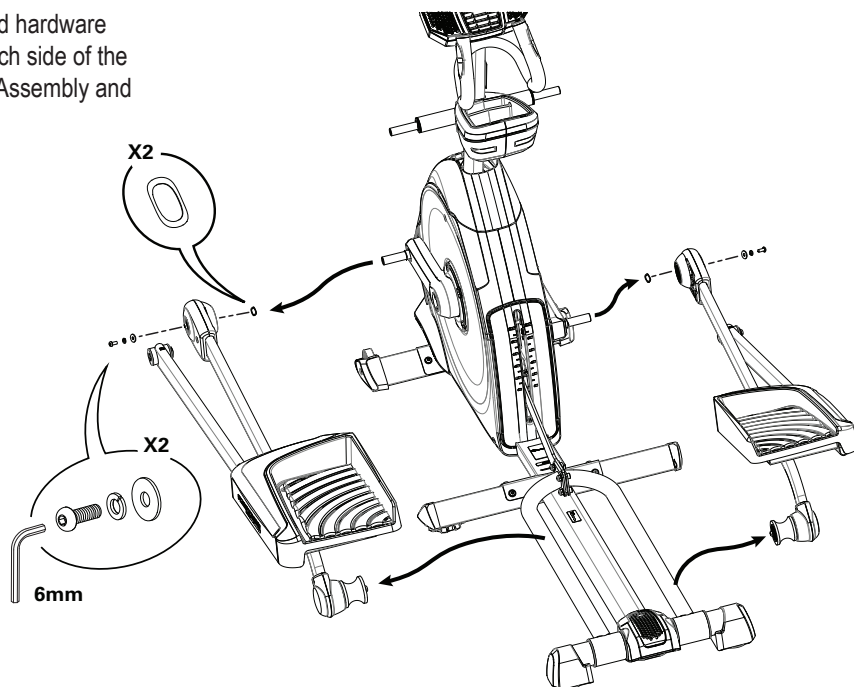
Be aware that the Handlebar Arms will be loose and may pivot when the hardware is removed. This step may require two people.

3. Using a 13 mm wrench, remove the hardware from the Lower Handlebar Arms and the Arm Pivot Rod. Remove the hardware and Upper and Lower Handlebar Arms. Set them safely aside for reassembly.



4. Using a 6mm hex key, loosen and remove the indicated hardware from the Legs, and set it safely aside for reassembly. On each side of the machine, remove the Leg and Pedal together from the Rail Assembly and set them safely aside for reassembly.

NOTICE: This step may require two people.



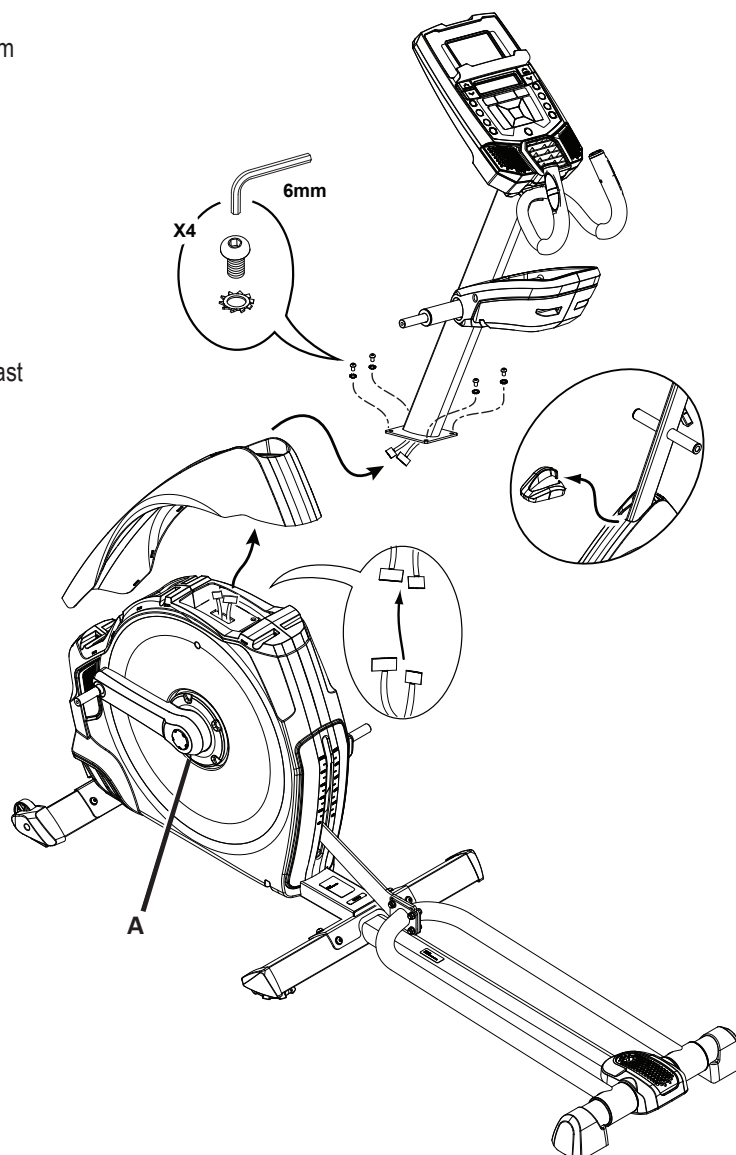
5. Bend the edges of the Top Shroud to disengage the inside tabs from the Main Assembly, and slide the Shroud Cap and Top Shroud up the Mast.

If you are not replacing the Top Shroud—go to Step 7.

If you are replacing the Top Shroud—continue to Step 6.

6. Remove the hardware (indicated) from the Mast. Gently pull the Mast out and disconnect the cables. Set the hardware, Mast and Top Shroud safely aside.

NOTICE: Do not crimp the cables. This step may require two people.



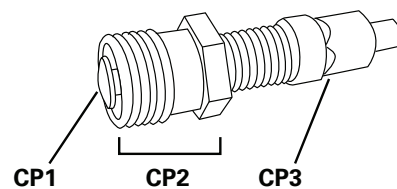
7. Using a flathead screwdriver, remove the Center Cap (A) from the Crank Arm.

8. Using a 14mm socket and ratchet, remove the Lock Nut from the Crank Arm with Plastics.



9. Thread the Crank Puller into the Crank Arm with Plastics. When the Crank Puller is in the correct position, only 1-2 threads on the outer portion (CP2) of the Crank Puller should show.

Note: Be sure the end of the Bolt (CP1) of the Crank Puller is flush with the Nut (CP2) as shown, before use.

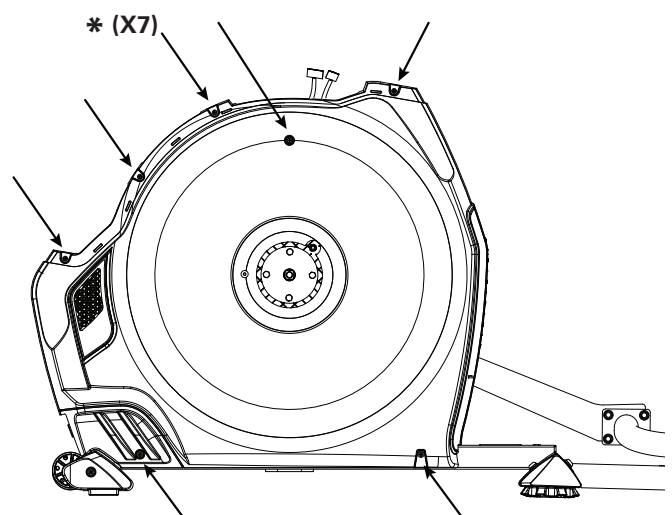


10. Using a wrench, turn the inner portion (CP3) of the Crank Puller clockwise. The Crank Arm with Plastics will slide off as it is tightened.



11. Using a #2 Phillips screwdriver, remove the 7 indicated screws (*) from the Left Shroud and remove them. Remove the bottom screws first, and then the top screws. Slowly remove the Left Shroud.

NOTICE: Be sure not to crimp any cables.

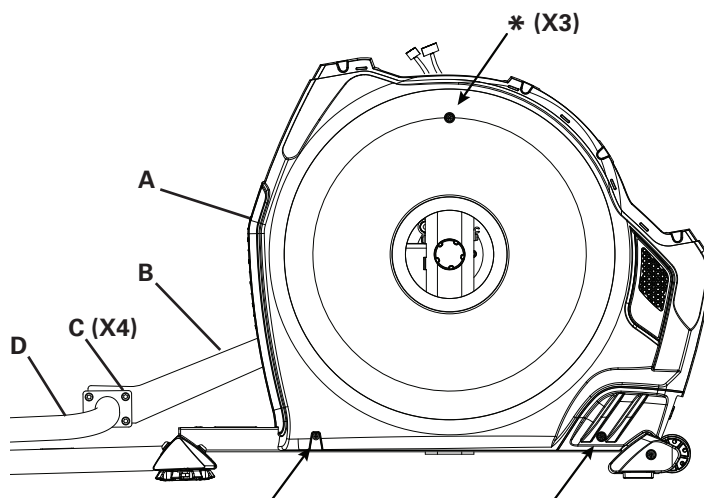


Left side of main unit.

12. Using a #2 Phillips screwdriver, remove the 3 screws (*) that secure the Right Shroud. Remove the bottom screws first, and then the top screw. Slowly remove the Right Shroud.

If you are not replacing the Motorized Lift Cover—go to Step 15.

If you are replacing the Motorized Lift Cover (A)—loosen and remove the hardware (C) that attaches the Incline Adjuster Assembly (B) to the Rail Assembly (D), using the 6mm hex key. Continue to Step 13.



Right side of main unit.

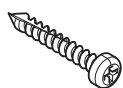
13. Using the 18mm open end wrench, loosen the bolts (E) that attach the Incline Adjuster bracket to the Lift Motor assembly (F) to allow the Incline Adjuster (B) to pivot.

14. Tilt the end of the Incline Adjuster Assembly (B) up. Remove the Motorized Lift Cover (A) from the Incline Adjuster Assembly.

15. Installation is the reverse procedure. Put the Left Shroud in position first to align the screws for the Right Shroud. Install the top screws first.

NOTICE: This step may require two people. Be sure not to crimp any cables.

Note: Self-tapping screws attach the Shrouds to the Frame.



No screws hold the Lift Cover Shroud in position. Reach through the left or right side opening to stabilize it while installing the screws.

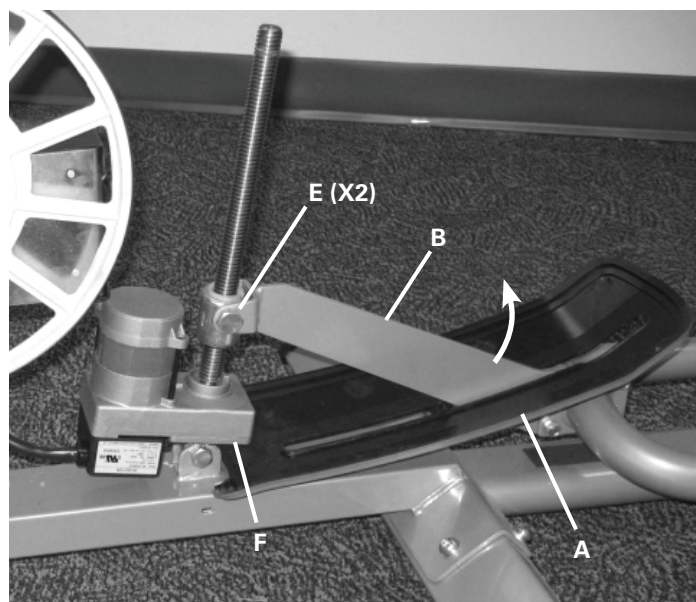
Be sure the tabs in the Top Shroud snap into the Main Assembly.

Installation does not require the use of the crank puller. Be sure the Crank Arms are connected at 180° from each other.

16. Dispose of the old parts.

17. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

! Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



Left side of Lift Motor

NOTICE: This document provides instructions for the replacement of the Console Mast on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017) and Water Bottle Holder on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014).

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DANGER

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
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- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



Small flathead screwdriver



13mm open end wrench

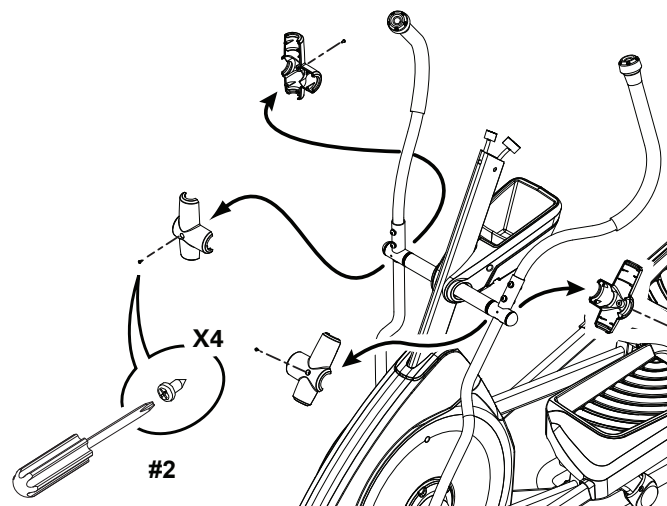




To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. Model Year 2014 (MY14) is shown. For reference only.

1. Loosen and remove the 4 screws from the Handlebar Shrouds. Remove the Handlebar Shrouds and set them safely aside.

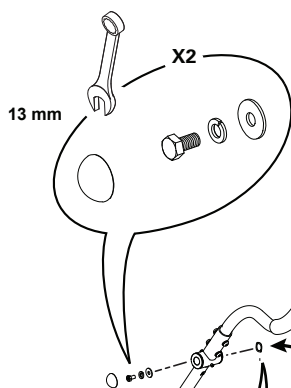


Console-static handlebar not shown for clarity

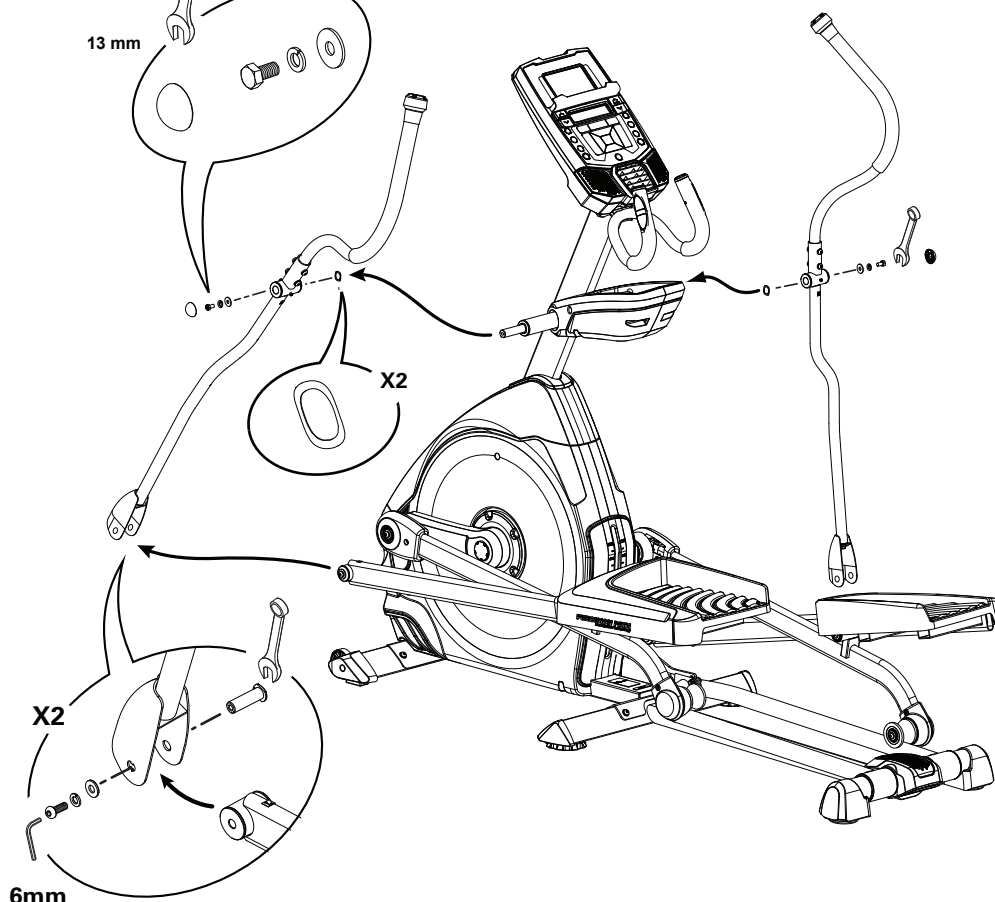
2. Using a 6mm hex key and a 13 mm wrench, remove the 2 indicated bolts from the Lower Handlebar Arms and Pedals. Set the hardware safely aside for reassembly.



Be aware that the Handlebar Arms will be loose and may pivot when the hardware is removed. This step may require two people.



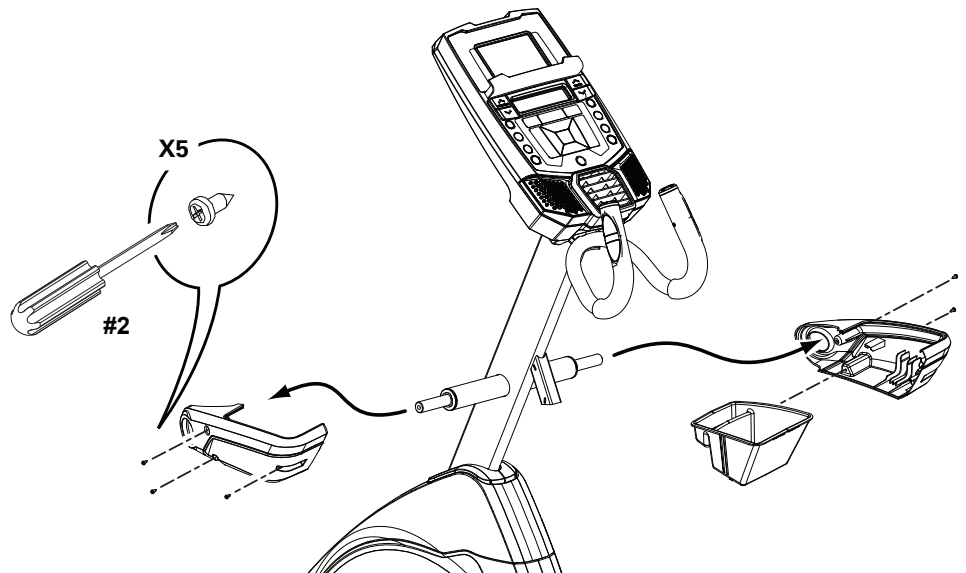
3. Using a 13 mm wrench, remove the hardware from the Lower Handlebar Arms and the Arm Pivot Rod. Remove the hardware, Upper and Lower Handlebar Arms, and Arm Pivot Rod. Set them safely aside for reassembly.



4. MY14 model only—Loosen and remove the screws from the Water Bottle Holder. Remove the Water Bottle Holder and set it safely aside.

If you are only replacing the Water Bottle Holder—go to Step 13.

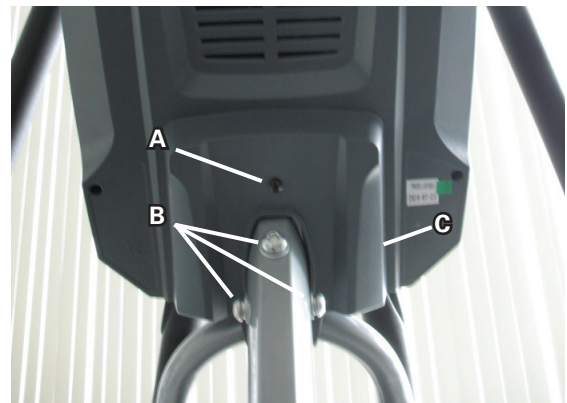
If you are replacing the Console Mast—continue to Step 5.



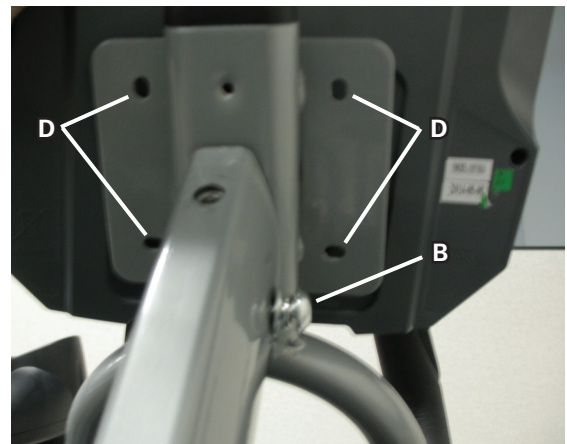
5. MY14 model only—Loosen and remove the screw (A) that attaches the Console Junction Cover (C) to the Console. Set the screw safely aside for reassembly.

6. To get access to the mount plate, carefully loosen and remove the hardware (B) that attaches the Static Handlebar Assembly to the Mast using a 6mm hex key. Slide the Console Junction Cover (C) down the Mast. Reinstall 1 bolt to hold the Static Handlebar Assembly in position on the Mast. Set the other hardware safely aside for reassembly.

NOTICE: Do not let the Console and Static Handlebar Assembly fall. This step may require two people.

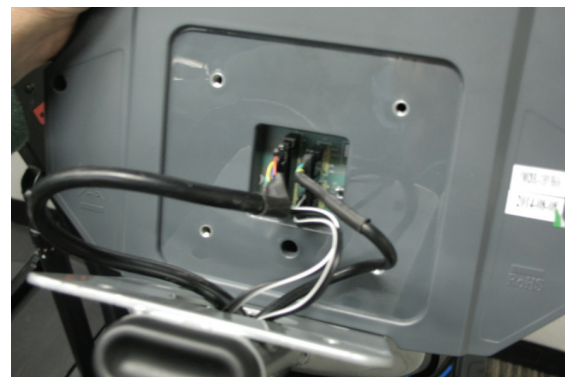


7. Remove screws (D) that attach the Console to the Static Handlebar Assembly. Carefully lift the Console off the Mast.



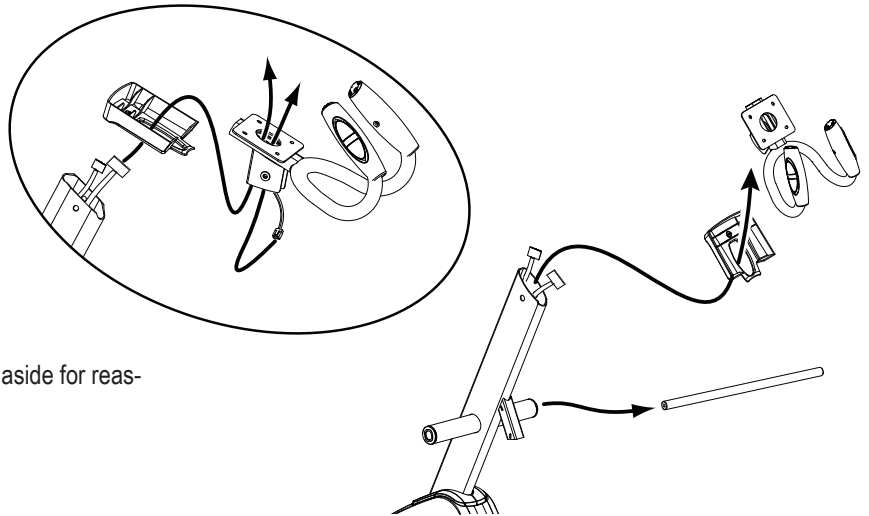
8. Disconnect the Data Cable, Lift Motor Cable and Heart Rate Cable from the back of the Console. Set the Console and screws safely aside for reassembly.

Note: Do not let the cables fall down inside the Mast. This step may require two people.



9. Using a 6 mm hex key, remove the remaining bolt (B, from Step 6) again, and remove the Static Handlebar and Console Junction Cover.

NOTICE: Do not crimp the cables when removing the Static Handlebar. Do not allow the cables to fall down into the Console Mast. Use a rubber band or wire tie.

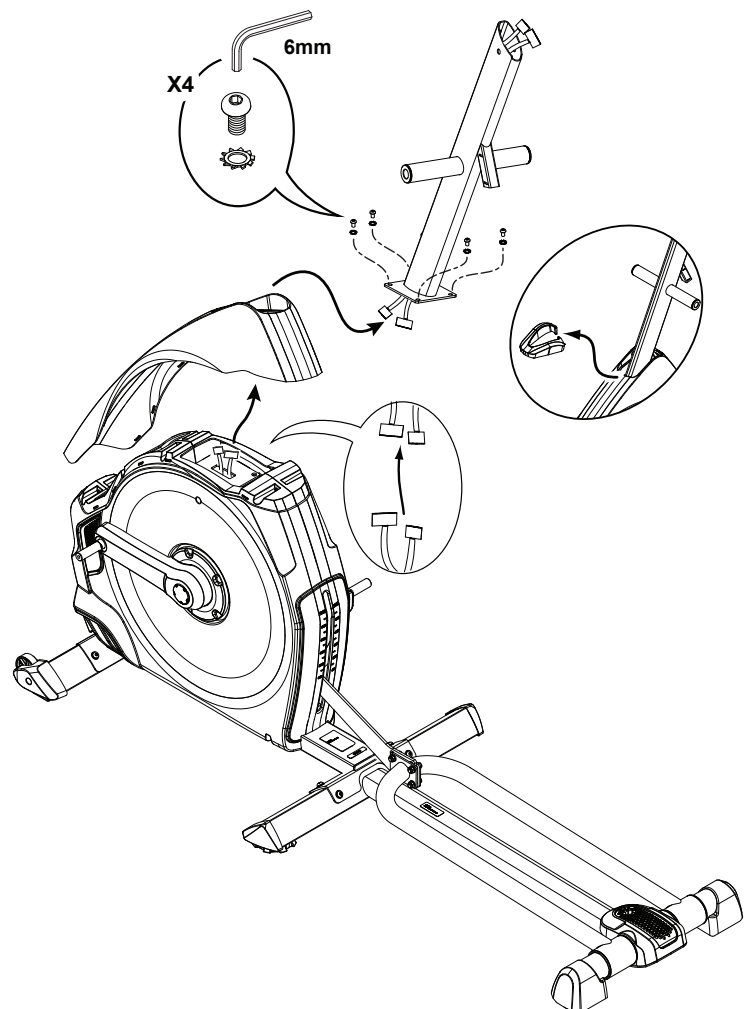


10. Remove the Pivot Rod from the Mast and set it safely aside for reassembly.

11. Bend the edges of the Top Shroud to disengage the inside tabs from the Main Assembly, and slide the Shroud Cap and Top Shroud up the Mast.

12. Remove the hardware (indicated) from the Mast. Gently pull the Mast out and disconnect the cables. Set the hardware and Top Shroud safely aside for reassembly. Discard the Mast.

NOTICE: Do not crimp the cables. Do not allow the cables to fall down into the Main Unit. This step may require two people.



13. Installation is the reverse procedure.

NOTICE: Do not crimp the cables. Do not allow the cables to fall down into the Console Mast.

14. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

! Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Data Cable in the Console Mast on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
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- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



4' (1.2m) length of string

Small flathead screwdriver



13mm open end wrench

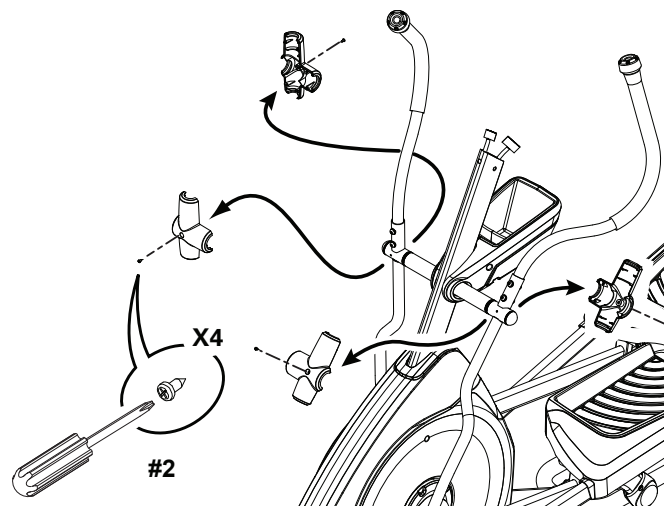




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Note: Your machine may not match the image. Model Year 2014 (MY14) is shown. For reference only.

1. Loosen and remove the 4 screws from the Handlebar Shrouds. Remove the Handlebar Shrouds and set them safely aside.

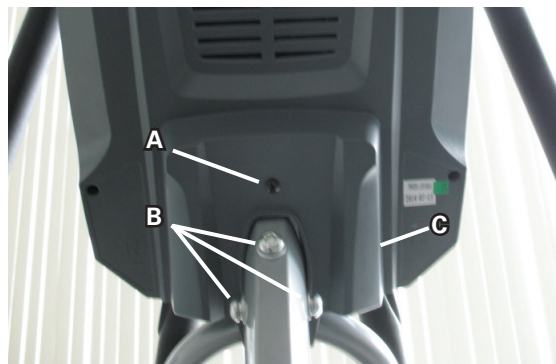


Console-static handlebar not shown for clarity

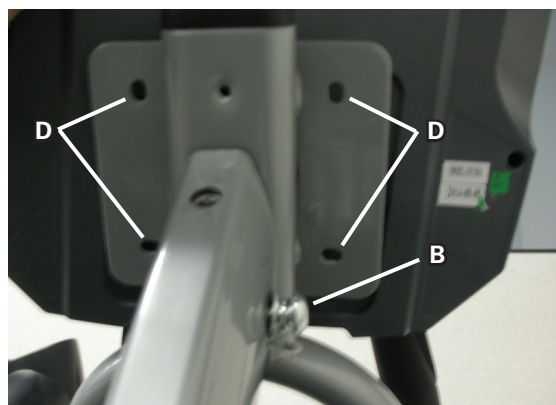
2. **MY14 model only**—Loosen and remove the screw (A) that attaches the Console Junction Cover (C) to the Console. Set the screw safely aside for reassembly.

3. To get access to the mount plate, carefully loosen and remove the hardware (B) that attaches the Static Handlebar Assembly to the Mast using a 6mm hex key. Slide the Console Junction Cover (C) down the Mast. Reinstall 1 bolt to hold the Static Handlebar Assembly in position on the Mast. Set the other hardware safely aside for reassembly.

NOTICE: Do not let the Console and Static Handlebar Assembly fall. This step may require two people.



4. Remove screws (D) that attach the Console to the Static Handlebar Assembly. Carefully lift the Console off the Mast.



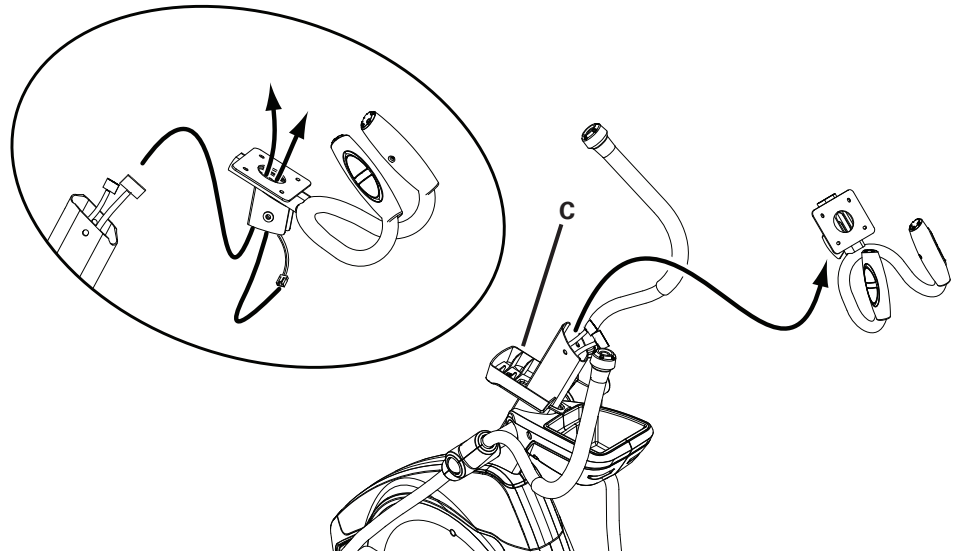
5. Disconnect the Data Cable, Lift Motor Cable and Heart Rate Cable from the back of the Console. Set the Console and screws safely aside for reassembly.

Note: Do not let the cables fall down inside the Mast. This step may require two people.



6. Using a 6 mm hex key, remove the remaining bolt (B, from Step 3) again, and remove the Static Handlebar and Console Junction Cover (C).

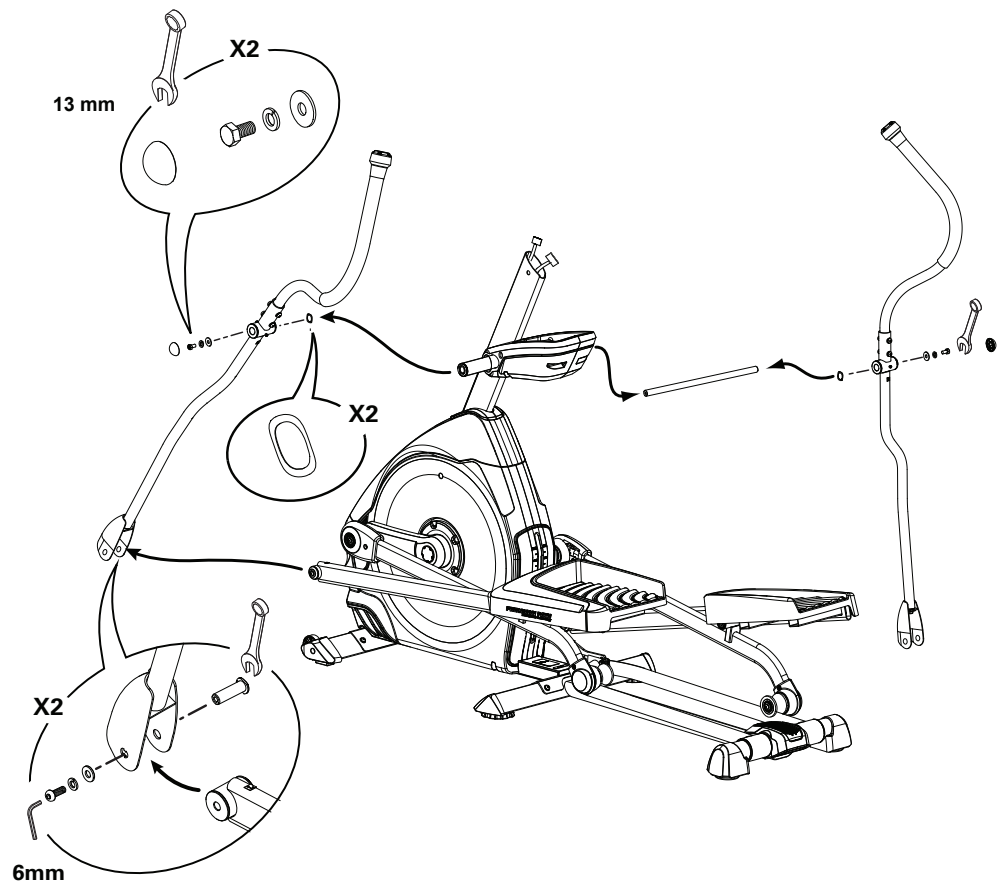
NOTICE: Do not crimp the cables when removing the Static Handlebar.
Do not allow the cables to fall down into the Console Mast. Use a rubber band or wire tie.



7. Using a 6mm hex key and a 13 mm wrench, remove the 2 indicated bolts from the Lower Handlebar Arms and Pedals. Set the hardware safely aside for reassembly.

! Be aware that the Handlebar Arms will be loose and may pivot when the hardware is removed. This step may require two people.

8. Using a 13 mm wrench, remove the hardware from the Lower Handlebar Arms and the Arm Pivot Rod. Remove the hardware, Upper and Lower Handlebar Arms, and Arm Pivot Rod. Set them safely aside for reassembly.



9. Bend the edges of the Top Shroud to disengage the inside tabs from the Main Assembly, and slide the Shroud Cap and Top Shroud up the Mast.

10. Remove the hardware (indicated) from the Mast. Gently pull the Mast out and disconnect the cables. Set the hardware and Top Shroud safely aside for reassembly.

NOTICE: Do not crimp the cables. Do not allow the cables to fall down into the Main Unit. This step may require two people.

11. Tie the length of string to the end (A) of the Data Cable at the base of the Mast. Hold the other end of the Data Cable (B) and carefully pull it out of the Mast so that the string extends through the length of the Mast.

NOTICE: Hold the Lift Motor Wire (C) so that you do not pull it out of the Mast. Do not crimp the Lift Motor Wire.

12. Untie the string from the old Data Cable and discard the old cable.

13. Tie the end of the string at the base of the Mast to one end of the replacement Data Cable. Hold the other end of the string and carefully pull it out of the Mast so that the string extends through the length of the Mast.

NOTICE: Hold the Lift Motor Wire (C) so that you do not pull it out of the Mast. Do not crimp the cables.

14. Connect the new Data Cable to the Data Cable from the Main Frame. Reconnect the Lift Motor Wires from the Mast and the Main Frame.

NOTICE: Do not crimp the cables. This step may require two people.

15. Reassembly is the reverse procedure.

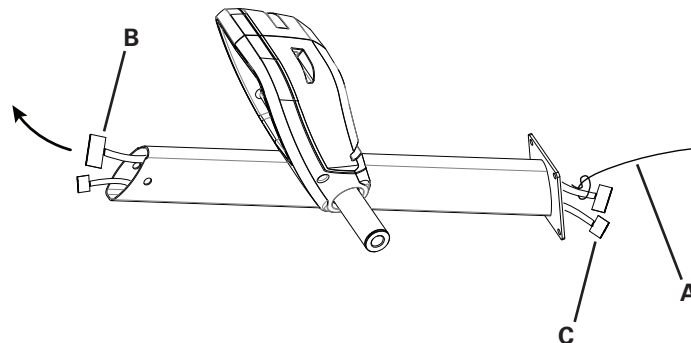
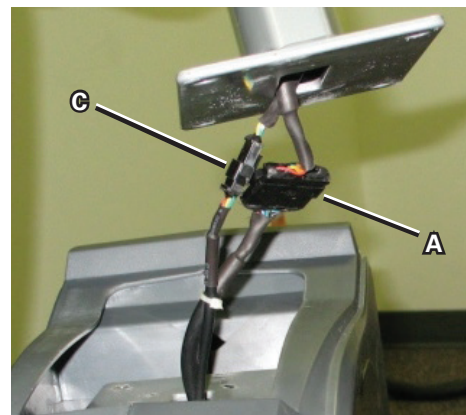
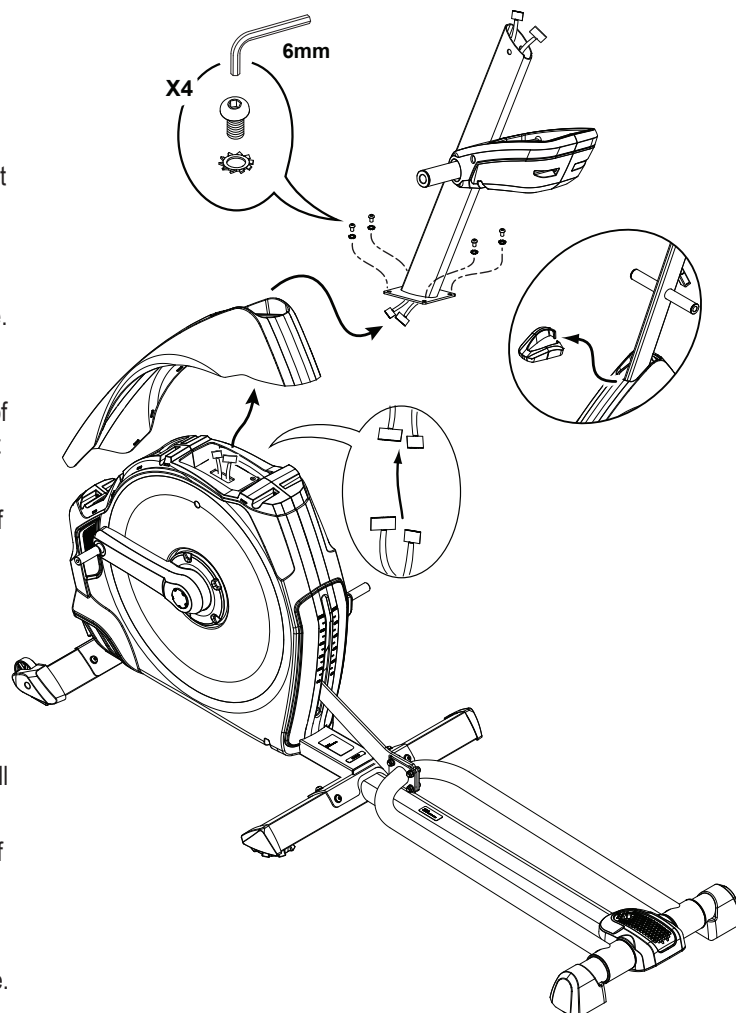
NOTICE: Do not crimp the cables. Untie the string from the Data Cable. Do not allow the cables to fall down into the Console Mast.

Be sure the tabs in the Top Shroud snap into the Main Assembly.

16. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



NOTICE: This document provides instructions for the replacement of the Lift Motor Wire in the Console Mast on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



4' (1.2m) length of string

Small flathead screwdriver



13mm open end wrench

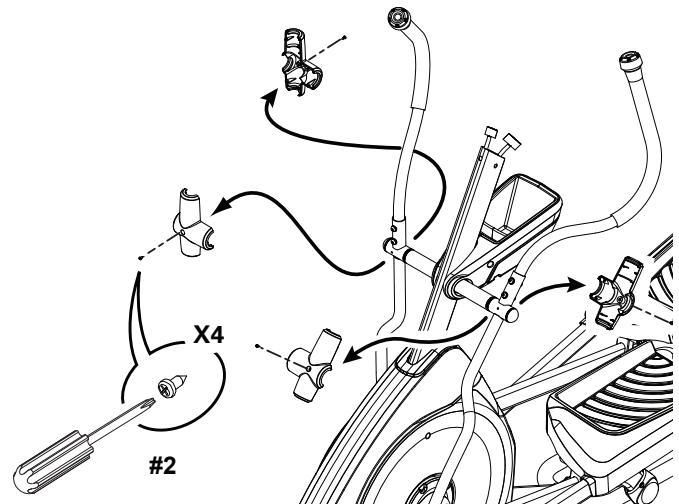




To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. Model Year 2014 (MY14) is shown. For reference only.

1. Loosen and remove the 4 screws from the Handlebar Shrouds. Remove the Handlebar Shrouds and set them safely aside.

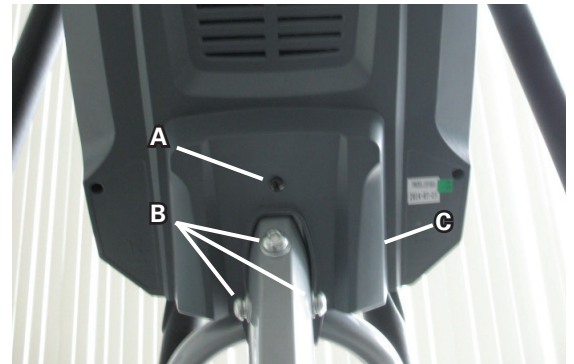


Console-static handlebar not shown for clarity

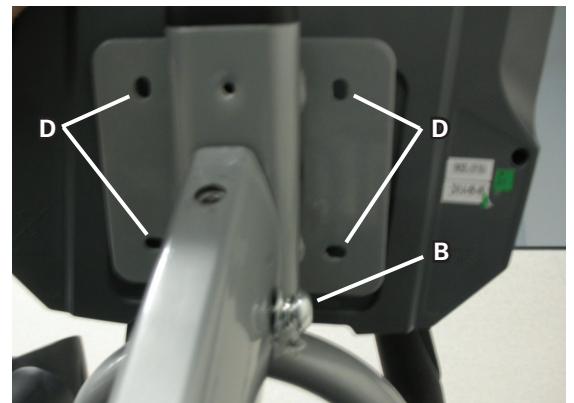
2. **MY14 model only**—Loosen and remove the screw (A) that attaches the Console Junction Cover (C) to the Console. Set the screw safely aside for reassembly.

3. To get access to the mount plate, carefully loosen and remove the hardware (B) that attaches the Static Handlebar Assembly to the Mast using a 6mm hex key. Slide the Console Junction Cover (C) down the Mast. Reinstall 1 bolt to hold the Static Handlebar Assembly in position on the Mast. Set the other hardware safely aside for reassembly.

NOTICE: Do not let the Console and Static Handlebar Assembly fall. This step may require two people.



4. Remove screws (D) that attach the Console to the Static Handlebar Assembly. Carefully lift the Console off the Mast.



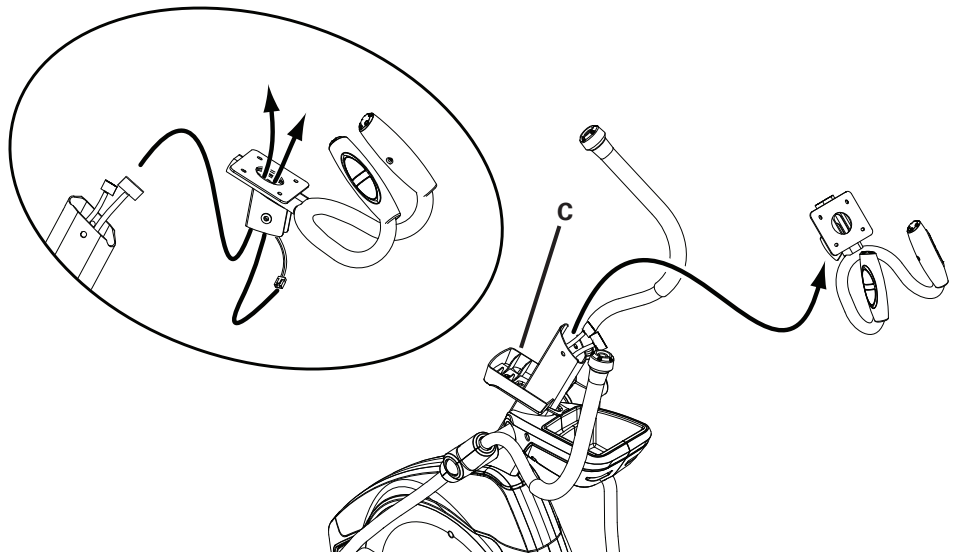
5. Disconnect the Data Cable, Lift Motor Cable and Heart Rate Cable from the back of the Console. Set the Console and screws safely aside for reassembly.

Note: Do not let the cables fall down inside the Mast. This step may require two people.



6. Using a 6 mm hex key, remove the remaining bolt (B, from Step 3) again, and remove the Static Handlebar and Console Junction Cover (C).

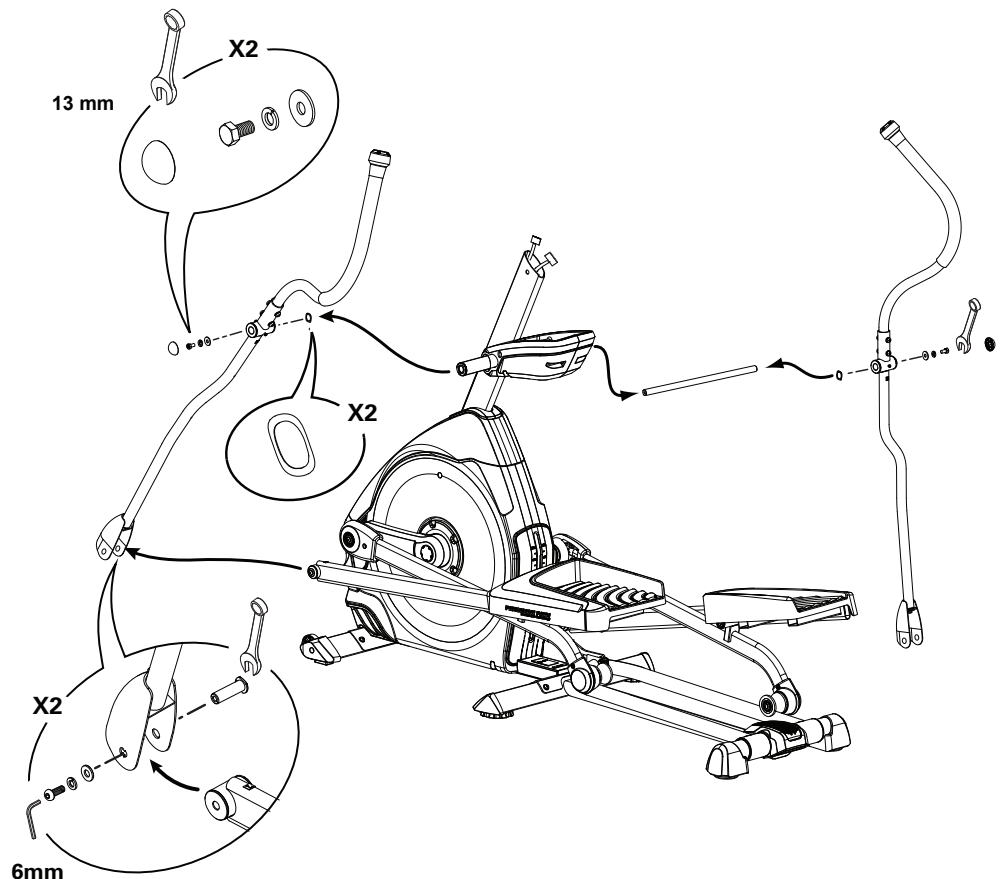
NOTICE: Do not crimp the cables when removing the Static Handlebar.
Do not allow the cables to fall down into the Console Mast. Use a rubber band or wire tie.



7. Using a 6mm hex key and a 13 mm wrench, remove the 2 indicated bolts from the Lower Handlebar Arms and Pedals. Set the hardware safely aside for reassembly.

! Be aware that the Handlebar Arms will be loose and may pivot when the hardware is removed. This step may require two people.

8. Using a 13 mm wrench, remove the hardware from the Lower Handlebar Arms and the Arm Pivot Rod. Remove the hardware, Upper and Lower Handlebar Arms, and Arm Pivot Rod. Set them safely aside for reassembly.



9. Bend the edges of the Top Shroud to disengage the inside tabs from the Main Assembly, and slide the Shroud Cap and Top Shroud up the Mast.

10. Remove the hardware (indicated) from the Mast. Gently pull the Mast out and disconnect the cables. Set the hardware and Top Shroud safely aside for reassembly.

NOTICE: Do not crimp the cables. Do not allow the Data Cable to fall down into the Main Unit. This step may require two people.

11. Tie the length of string to the end (A) of the Lift Motor Wire at the base of the Mast. Hold the other end of the Lift Motor Wire (B) and carefully pull it out of the Mast so that the string extends through the length of the Mast.

NOTICE: Hold the Data Cable (C) so that you do not pull it out of the Mast. Do not crimp the Data Cable.

12. Untie the string from the old Lift Motor Wire and discard the old cable.

13. Tie the end of the string at the base of the Mast to one end of the replacement Lift Motor Wire. Hold the other end of the string and carefully pull the new Lift Motor Wire through the Mast.

NOTICE: Hold the Data Cable (C) so that you do not pull it out of the Mast. Do not crimp the cables.

14. Connect the new Lift Motor Wire to the Lift Motor Wire from the Main Frame. Reconnect the Data Cables from the Mast and the Main Frame.

NOTICE: Do not crimp the cables. This step may require two people.

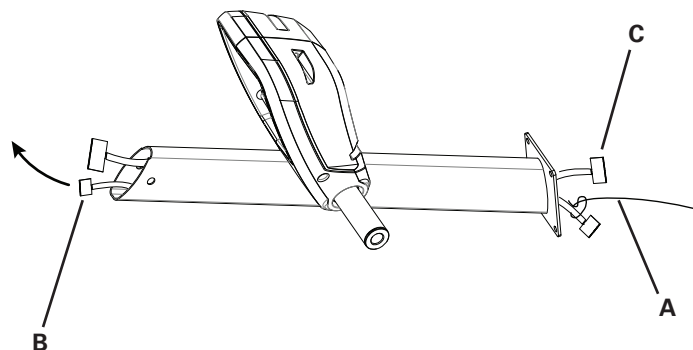
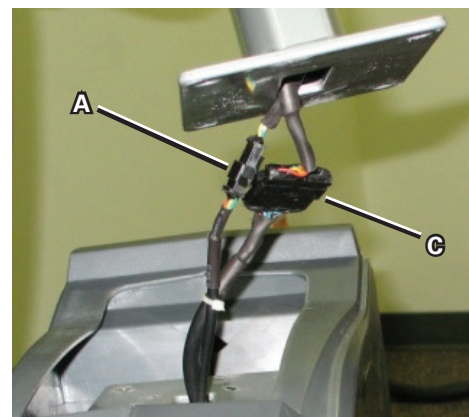
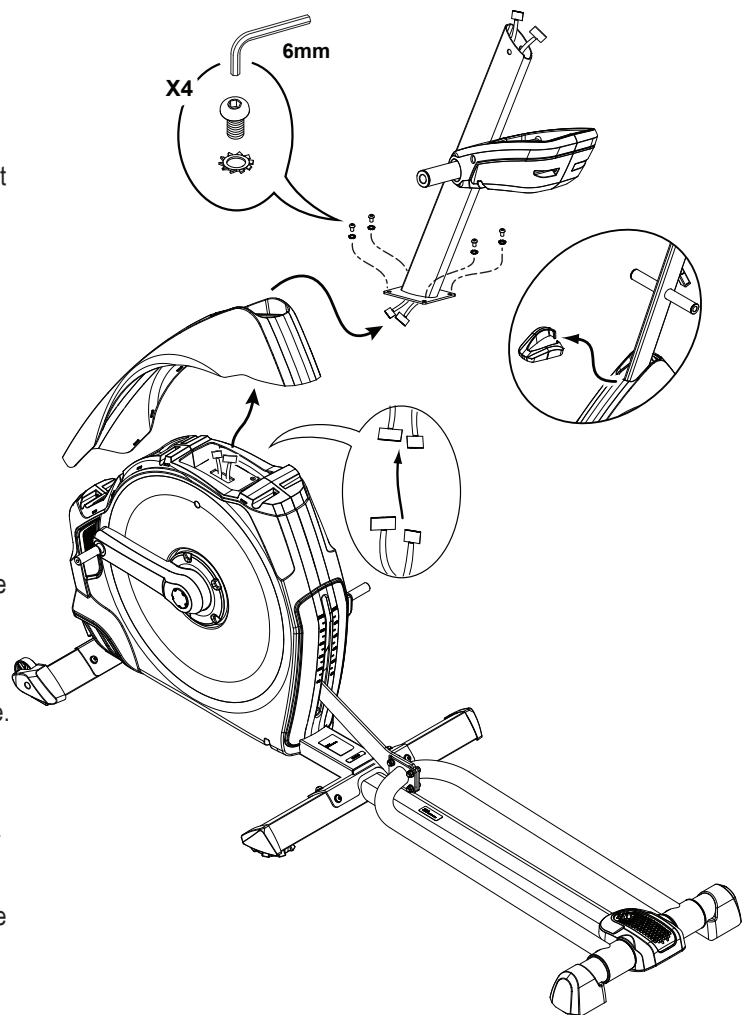
15. Reassembly is the reverse procedure.

NOTICE: Do not crimp the cables. Untie the string from the Lift Motor Wire. Do not allow the cables to fall down into the Console Mast.

Be sure the tabs in the Top Shroud snap into the Main Assembly.

16. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

! Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



NOTICE: This document provides instructions for the replacement of the Incline Adjuster Assembly on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

6mm hex key



14mm socket and wrench
18mm socket and wrench



Small flathead screwdriver



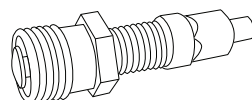
#2 Phillips screwdriver



13mm open end wrench
18mm open end wrench



Crank puller



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.

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Note: Your machine may not match the image. For reference only.

1. Remove the Left Shroud. Refer to the “Replace the Shrouds” Procedure.

Note: It may also be necessary to remove the Right Shroud to get access to the Incline Adjuster hardware (D).

2. Count the number of threads showing on the Lift Motor shaft (E1) between the collar nut (E2) and the Lift Motor base (E), and record the number.

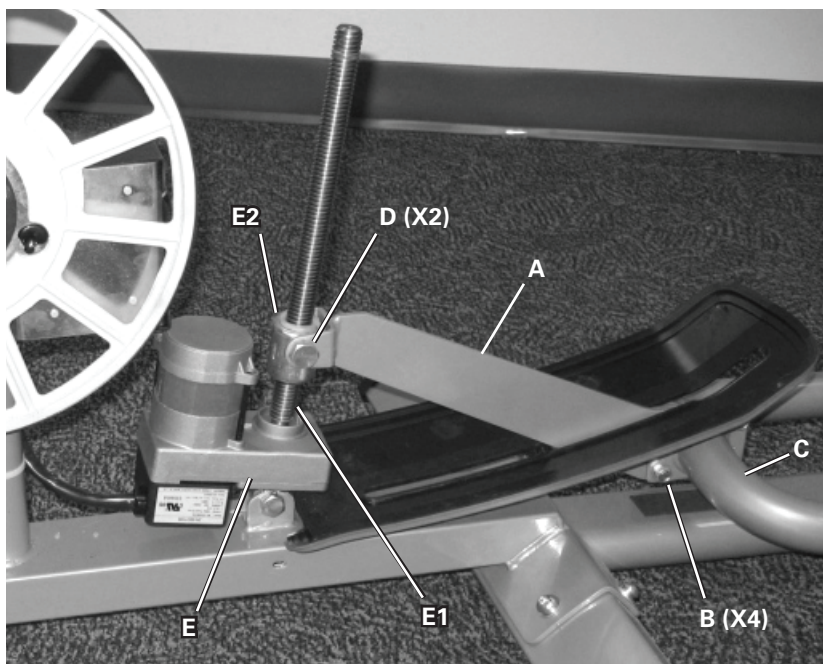
3. Using the 6mm hex key, loosen and remove the hardware (B) that attaches the Incline Adjuster Assembly (A) to the Rail Assembly (C).

4. Using the 18mm socket and wrench and 18mm open end wrench, loosen and remove the hex head bolts (D) that attach the Incline Adjuster Assembly (A) to the Lift Motor shaft (E1). Set the bolts aside for reassembly.

5. Carefully remove the old Incline Adjuster Assembly (A) and discard.

Note: Do not rotate the Lift Motor collar nut (E2) on the shaft (E1) while the Incline Adjuster Assembly is not installed.

NOTICE: Do not crimp any cables.



6. Installation is the reverse procedure.

Note: Be sure the number of threads showing on the Lift Motor shaft (E1) between the collar nut (E2) and the Lift Motor base (E) is the same as the number recorded in Step 2. If the number is different, turn the collar nut until the thread count is the same.

NOTICE: Do not crimp any cables.

7. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

! Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Brake Assembly on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com



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DANGER

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
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- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



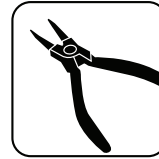
13mm wrench



Flathead screwdriver



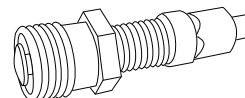
Needlenose pliers



6mm hex key



Crank puller



13mm socket and wrench



2.5" x 10" cardboard and tape



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.
It may be necessary to adjust the brake tension at the end of this procedure. Refer to the “Set the Brake Tension” procedure.

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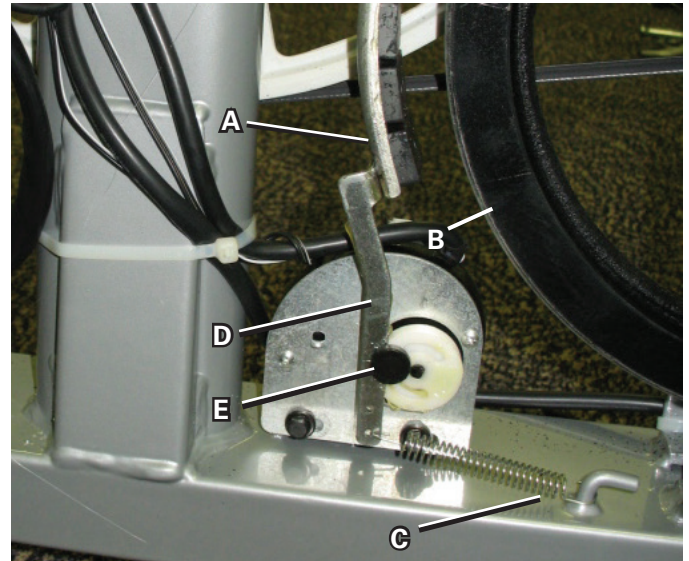
Note: Your machine may not match the image. For reference only.

1. Carefully remove the Shrouds. Refer to the “Replace the Shrouds” procedure.

2. Insert 2.5" x 10" cardboard between the Brake Magnet (A) and the Flywheel (B), and tape the cardboard to the Brake Magnet.

Note: Be sure the cardboard covers all of the Brake Magnet.

3. Use the pliers to unhook the Tension Spring (C) from the Main Frame. Pull back and release the Magnet Arm (D) enough to disengage it from the Motor Pulley Shaft (E).



4. Loosen and remove the hex head bolt (F), nut (G) and washer (H) that attach the Brake Assembly (A) to the Main Frame bracket (J).

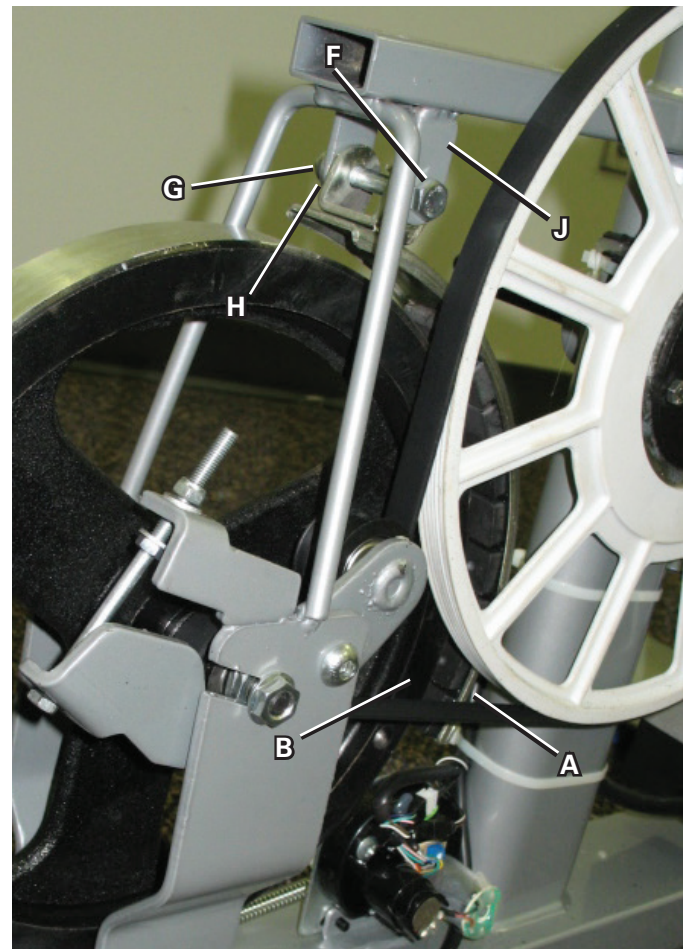
NOTICE: Hold the Brake Assembly so that it does not fall.
Do not crimp the cables

5. Remove the Brake Assembly (A). Remove the cardboard. Discard the old Brake Assembly.

6. Installation is the reverse procedure. Tape the cardboard to the new Brake Magnet. Be sure the cardboard will completely cover the new Brake Magnet before installation.

NOTICE: Do not crimp the cables.

7. Before fully attaching the Shrouds, remove the cardboard from between the Brake Magnet (A) and the Flywheel (B). Power up the machine to verify that the Magnet Arm (D) can move freely, and that the Brake Magnet and Flywheel do not touch at the maximum resistance level.



Machine is on. Current is active. There is risk of electrical shock.

If necessary, refer to the “Set the Brake Tension” procedure.

8. Final Inspection

Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

After replacing the Brake Assembly, the resistance levels of the machine may be different. The user should adjust their workout levels accordingly.

NOTICE: This document provides instructions for the replacement of the Servo Motor on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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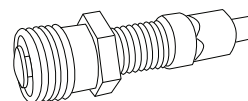
- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
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- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



Crank puller



Flathead screwdriver



Needlenose pliers



6mm hex key
3mm hex key



2.5" x 10" cardboard and tape
Utility knife or scissors to cut zipties
4' (1.2m) length of string
Zipties

14mm socket and wrench



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.
It may be necessary to adjust the brake tension at the end of this procedure. Refer to the “Set the Brake Tension” procedure.

⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

1. Disconnect and reconnect the AC Adapter from the wall outlet to turn the power off and on. Push QuickStart and verify that the console shows that the default resistance level is 4. Set the resistance to the highest level.



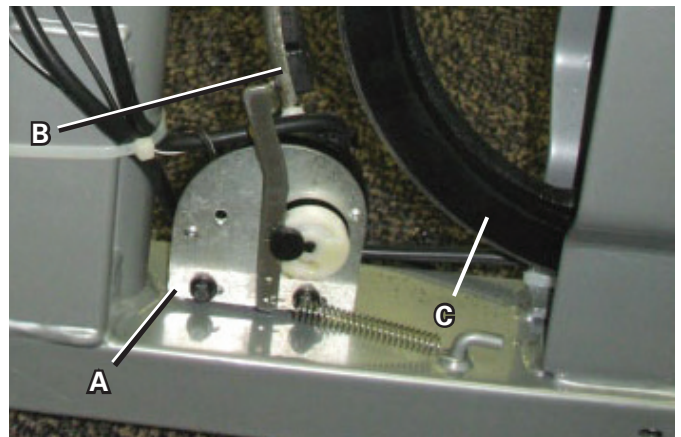
Disconnect all power and allow to sit for 5 minutes.

2. Carefully remove the Shrouds. Refer to the “Replace the Shrouds” procedure in this manual.

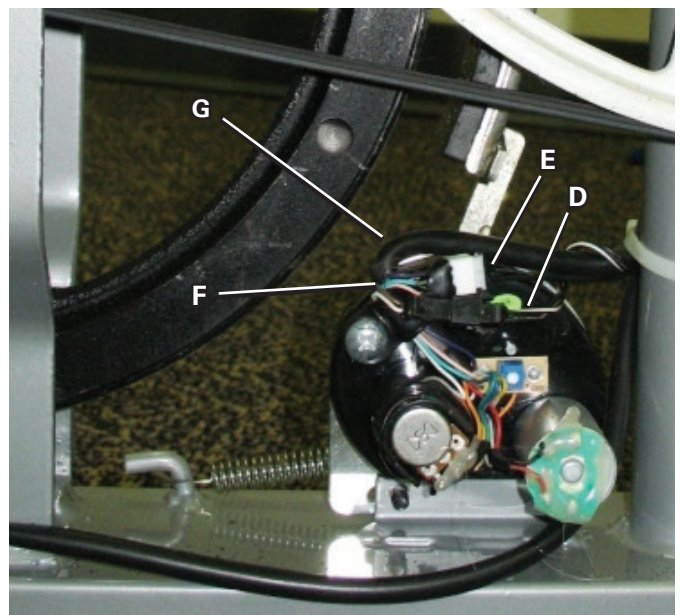
3. Measure and mark the position of the Servo Motor bracket (A) on the Main Frame.

4. Insert 2.5" x 10" cardboard between the Brake Magnet (B) and the Flywheel (C), and tape the cardboard to the Brake Magnet.

Note: Be sure the cardboard covers all of the Brake Magnet.



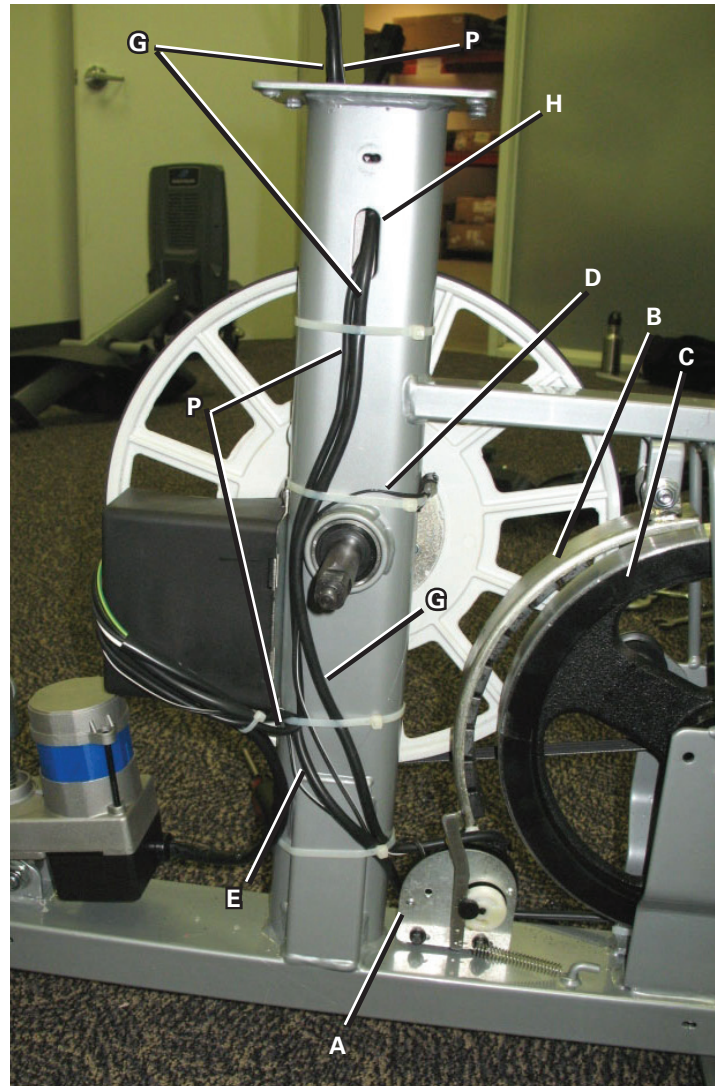
5. Observe the cable routing to the wiring harness (F) on your machine. Disconnect the Speed Sensor Cable (D) and Servo Control Wire (E) from the wiring harness.



6. Tie the length of string to the end of the lower Console Cable (G) at the top of the Mast mount. Remove the zipties that attach the lower Console Cable to the Frame. Pull the cable and string down through the hole (H) on the side of the Frame so that the string extends through the Frame.

NOTICE: Hold the Lift Motor Wire (P) so that you do not pull it out of the Mast. Do not crimp the cables.

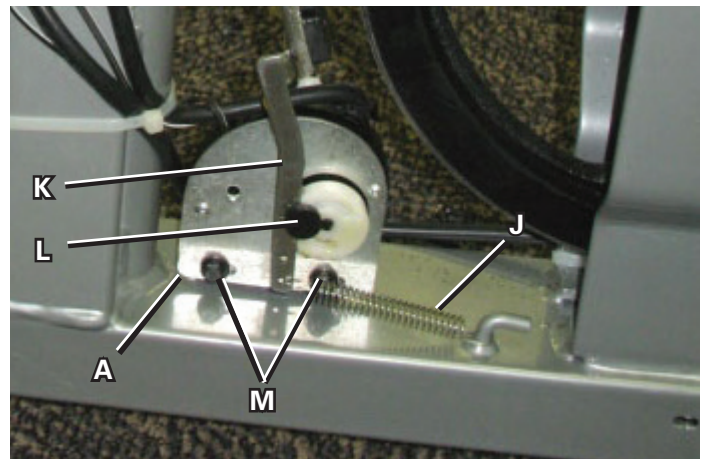
7. Untie the string from the Console Cable (G).



8. Use the pliers to unhook the Tension Spring (J) from the Main Frame. Pull back and release the Magnet Arm (K) enough to disengage it from the Motor Pulley Shaft (L).

9. Loosen and remove the two socket head bolts (M) from the Servo Motor (A).

10. Remove the Servo Motor (A). Discard the old Servo Motor.



11. Installation is the reverse procedure. Adjust the new Servo Motor to same position recorded in Step 3.

NOTICE: Do not touch the Potentiometer (N). Do not crimp any cables.

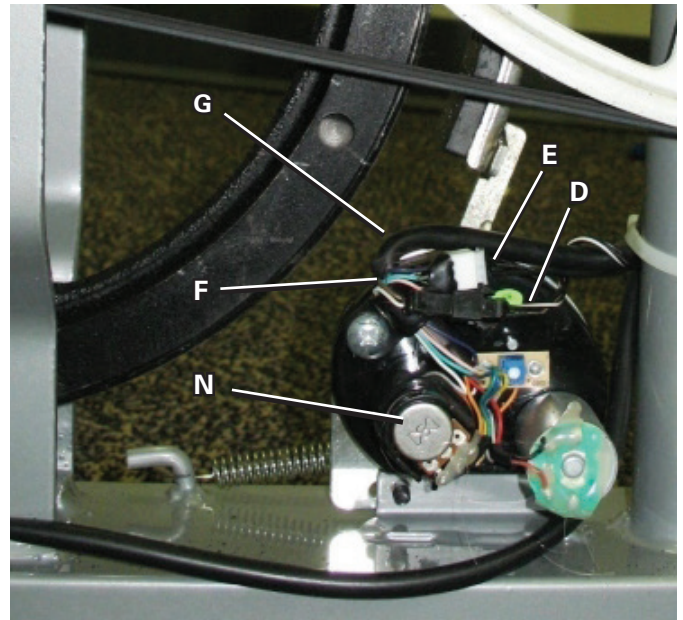
12. Tie the end of the string at the hole (H) in the Mast to the end of the Console Cable (G) on the new Servo Motor (A). Carefully pull the cable through the hole to the top of the Mast mount. Untie the string and discard it.

NOTICE: Do not crimp the cables.

13. Reinstall the Mast, Static Handlebar, Console and Top Shroud. (Refer to the "Replace the Shrouds" procedure.) Turn the power on.



Machine is on. Current is active. There is risk of electrical shock.



14. Use the console to set the resistance to the highest level. Unplug the machine.



Disconnect all power and allow to sit for 5 minutes.

15. Put the Brake Arm (K) back in position and connect the Tension Spring (J) with the needlenose pliers.

Note: Before fully attaching the Shrouds, remove the cardboard from between the Brake Magnet (B) and the Flywheel (C). Power up the machine to verify that the Magnet Arm can move freely, and that the Brake Magnet and Flywheel do not touch at the maximum resistance level. If necessary, refer to the "Set the Brake Tension" procedure.

16. Final Inspection

Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

After replacing the Servo Motor, the resistance levels of the machine may be different. The user should adjust their workout levels accordingly.

NOTICE: This document provides instructions for the replacement of the Motor Control Board (MCB) on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com



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DANGER

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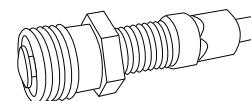
- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
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- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



Crank puller



Flathead screwdriver



Utility knife or scissors to cut zipties
Zipties

6mm hex key



14mm socket and wrench



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.
It may be necessary to adjust the brake tension at the end of this procedure. Refer to the “Set the Brake Tension” procedure.

⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

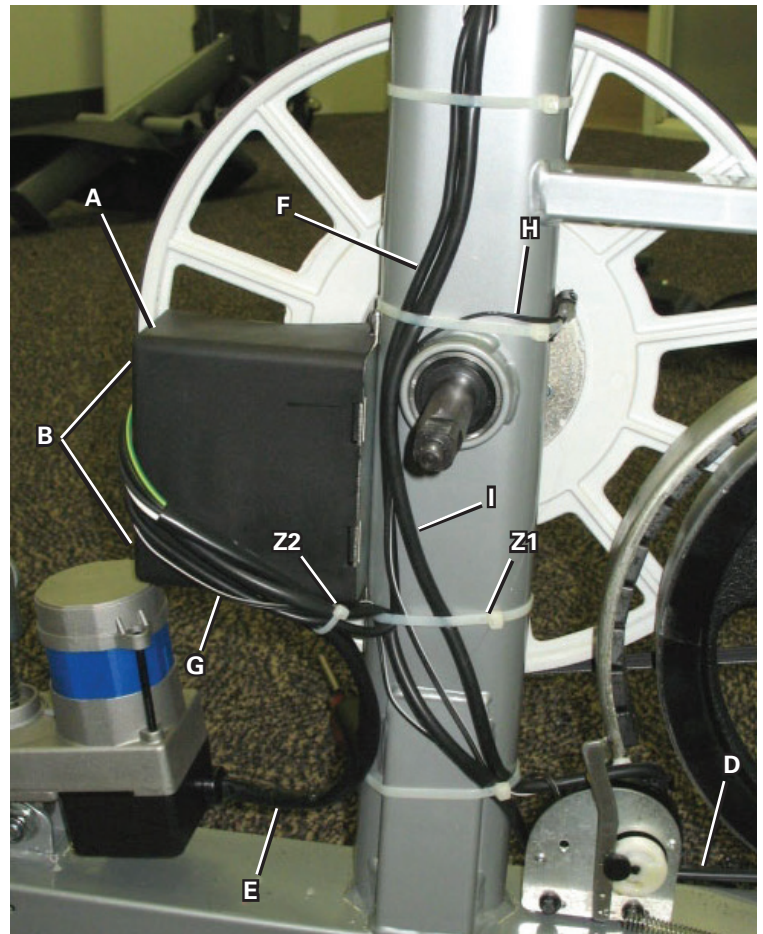
Note: Your machine may not match the image. For reference only.

1. Disconnect all power and allow to sit for 5 minutes.
2. Carefully remove the Right Shroud. Refer to the “Replace the Shrouds” procedure in this manual.
3. Observe the cable routing from the Motor Control Board (MCB) assembly (A) on your machine.
 - D—Power Inlet Cable (Power switch to MCB)
 - E—Lift Motor Cable, Lower (Lift Motor to MCB)
 - F—Lift Motor Wire, Upper (MCB to Console)
 - G—Servo Control Wire (MCB to Servo Motor)
 - H—Speed Sensor Cable (Speed Sensor to Servo Motor)
 - I—Data (I/O) Cable (Servo Motor to Console)

Note: Be sure to note where all cables are routed for re-assembly.

4. Remove the zipties (Z1, Z2) that hold the cables.
5. Loosen and remove the screws (B) that attach the MCB cover to the MCB assembly (A). Carefully remove the MCB cover.

NOTICE: Do not crimp the cables.



6. Disconnect the cables from the Motor Control Board after noting their locations.

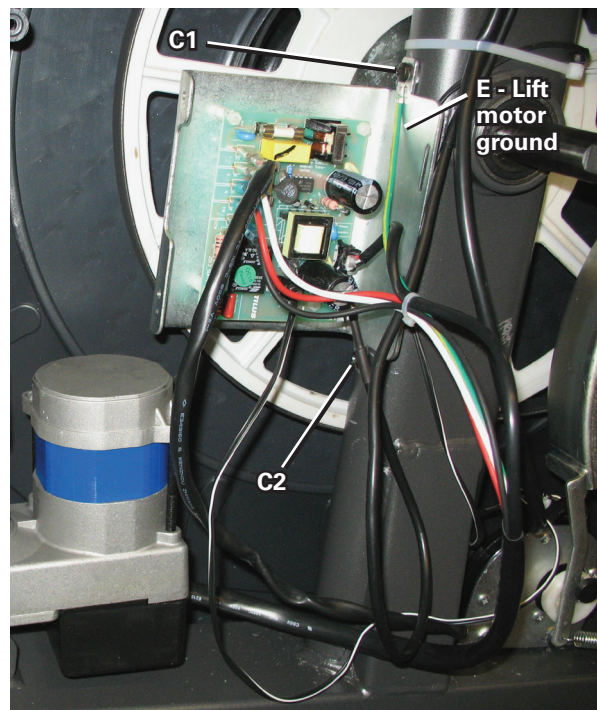
Note: Be sure to note where all cables attach for re-assembly.

7. Using a #2 Phillips screwdriver, remove the 2 indicated screws (C1, C2) that attach the MCB assembly to the Frame.

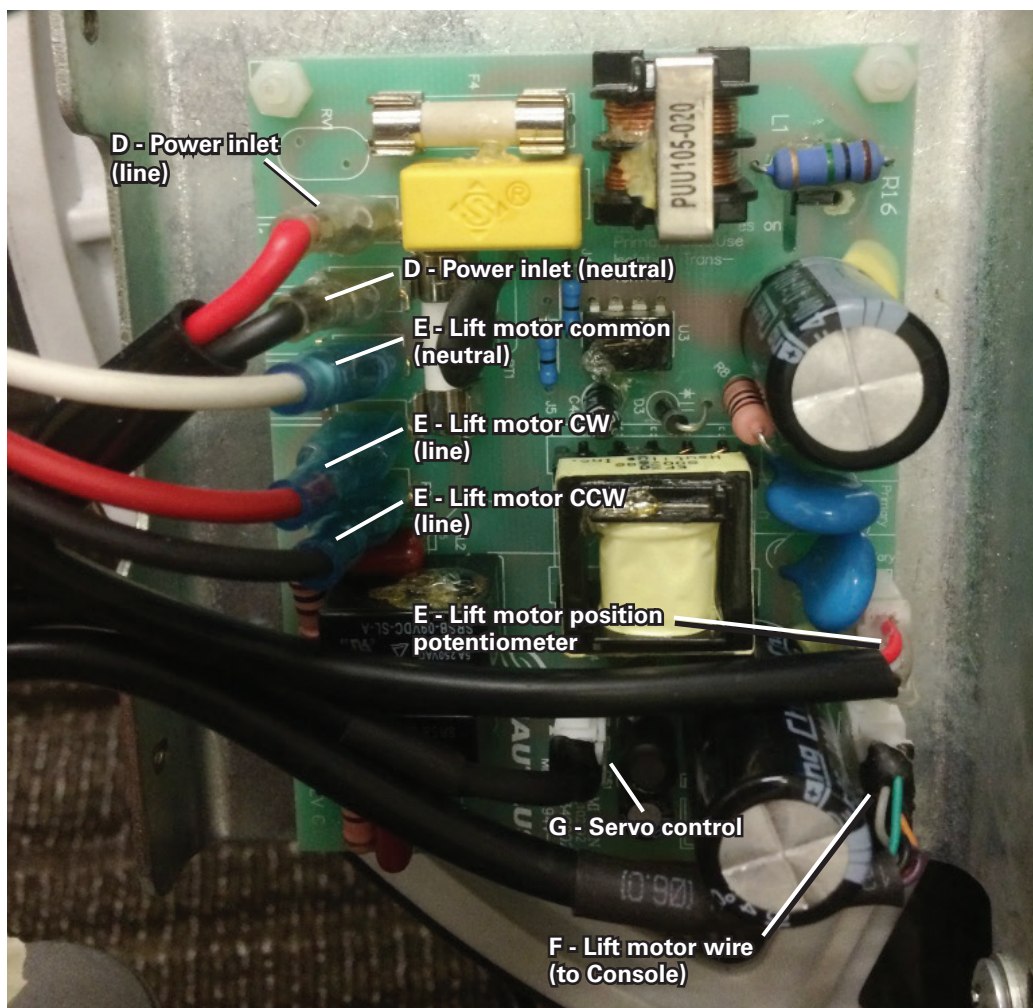
8. Remove old MCB assembly, and install the new MCB assembly. Connect the cables to the MCB in their proper locations.



Use the top screw (C1) to attach the green Lift Motor ground wire to the Frame. Be sure not to crimp any cables.



The MCB shown is on a Schwinn™ 470 machine.



The MCB shown is on an E626 machine.

9. Reassembly is the reverse procedure. Secure the cables with zipties (as noted in Step 2).

NOTICE: Do not crimp the cables.

10. If the Mast, Static Handlebar, Console and Top Shroud were removed in Step 2, reinstall them. (Refer to the "Replace the Shrouds" procedure.) Turn the power on.



Machine is on. Current is active. There is risk of electrical shock.

11. Before fully attaching the Shrouds, use the console to set the resistance to the highest level. Verify that the Brake Magnet and Flywheel do not touch at the maximum resistance level. If necessary, refer to the "Set the Brake Tension" procedure. Unplug the machine



Disconnect all power and allow to sit for 5 minutes.

12. Final Inspection

Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

After replacing the MCB, the resistance levels of the machine may be different. The user should adjust their workout levels accordingly.

NOTICE: This document provides instructions for the replacement of the Lift Motor on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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Important Safety Instructions - Before servicing or using this equipment, obey the following warnings:

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⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

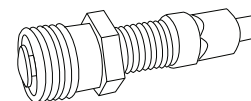
- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



Crank puller



Flathead screwdriver



18mm open end wrench



6mm hex key



Utility knife or scissors to cut zipties
Zipties
Metric ruler or 35mm spacer

14mm socket and wrench
18mm socket and wrench



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.

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Note: Your machine may not match the image. For reference only.

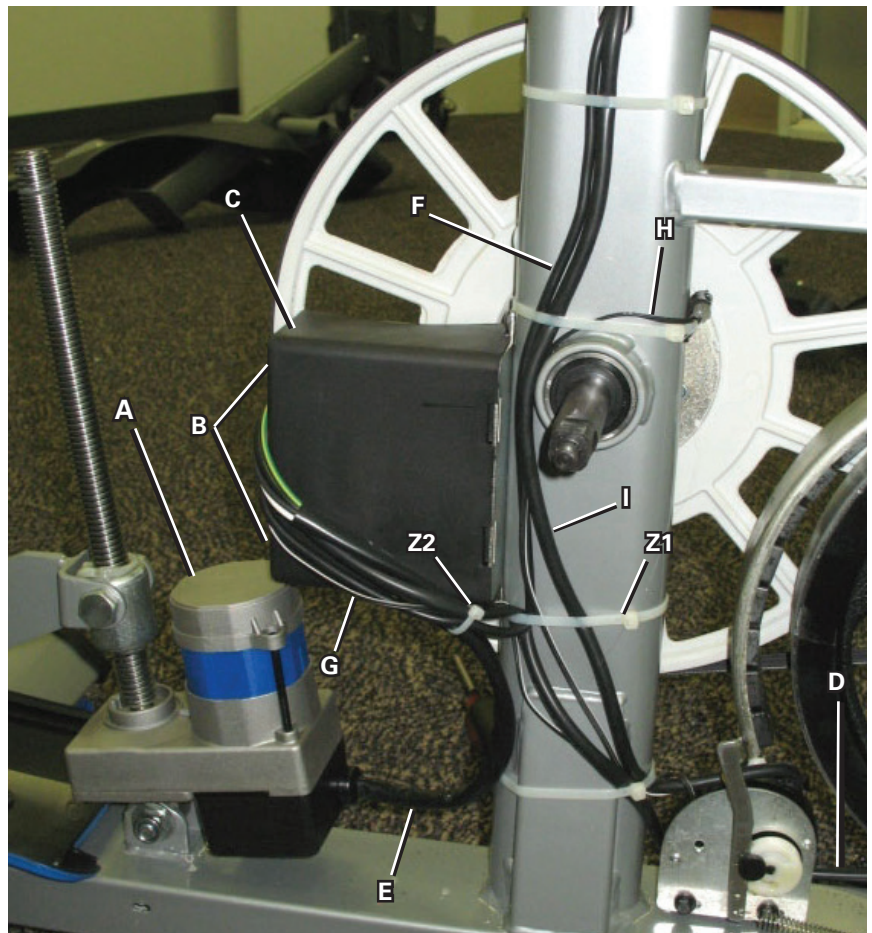
1. Disconnect all power and allow to sit for 5 minutes.
2. Carefully remove the Shrouds. Refer to the “Replace the Shrouds” procedure in this manual.
3. Locate the Lift Motor Cable (E) that goes from the Lift Motor (A) to the Motor Control Board (MCB) assembly (C) on your machine.

- D—Power Inlet Cable (Power switch to MCB)
- E—Lift Motor Cable, Lower (Lift Motor to MCB)
- F—Lift Motor Wire, Upper (MCB to Console)
- G—Servo Control Wire (MCB to Servo Motor)
- H—Speed Sensor Cable (Speed Sensor to Servo Motor)
- I—Data (I/O) Cable (Servo Motor to Console)

Note: Be sure to note where all cables are routed for re-assembly.

4. Remove the zipties (Z1, Z2) that hold the cables.
5. Loosen and remove the screws (B) that attach the MCB cover to the MCB assembly (C). Carefully remove the MCB cover.

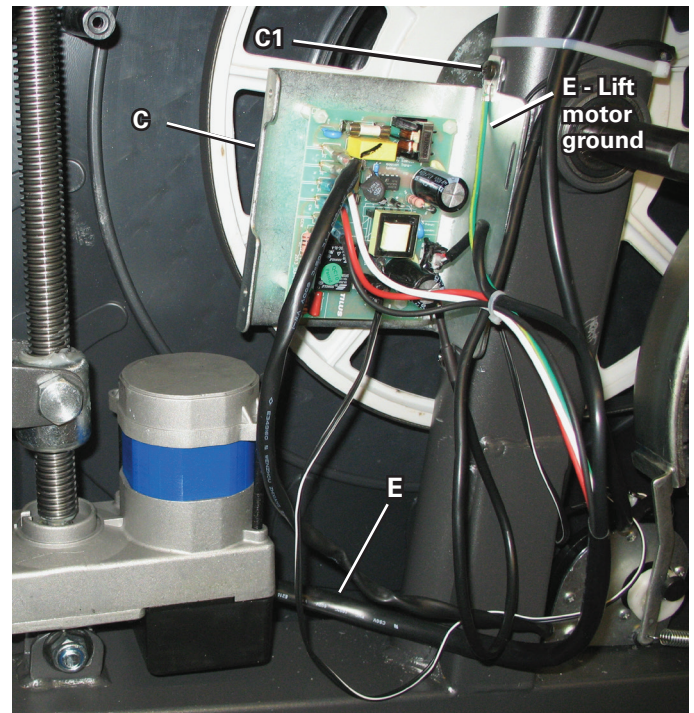
NOTICE: Do not crimp the cables.



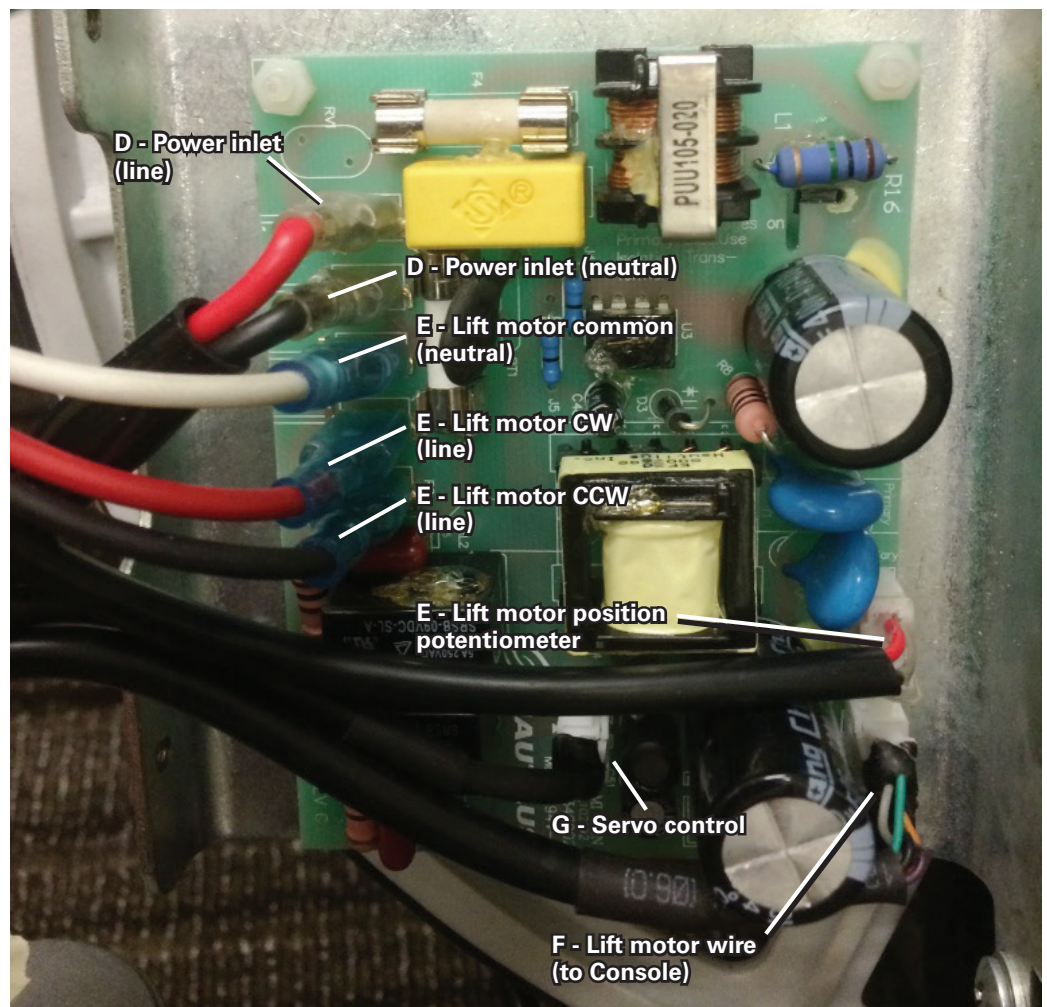
6. Using a #2 Phillips screwdriver, remove the top screw (C1) to free the Lift Motor ground wire (E). Hand tighten the top screw to hold the MCB assembly (C) in position on the Frame until reassembly.

7. Disconnect the Lift Motor cable (E) from the Motor Control Board after noting the connector locations.

Note: Be sure to note where all cables attach for re-assembly.



The MCB shown is on a Schwinn™ 470 machine.



The MCB shown is on an E626 machine.

8. Using the 18mm socket and wrench and 18mm open end wrench, loosen and remove the hex head bolts (K) that attach the Incline Adjuster (J) assembly to the Lift Motor shaft (A1).

9. Remove the hardware (L) that attaches the Lift Motor assembly (A) to the Frame.

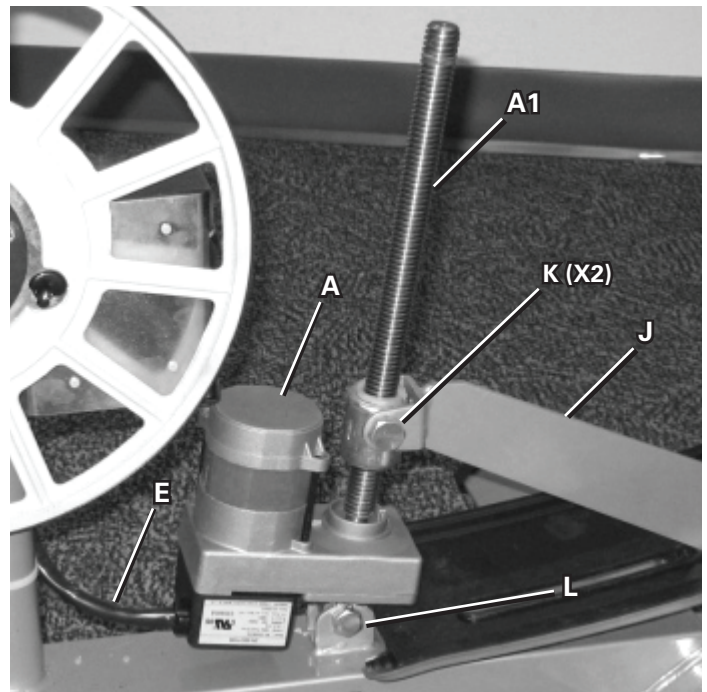
10. Remove old Lift Motor assembly, and discard.

11. Install the replacement Lift Motor assembly and hardware (L) to the Frame.

12. Connect the Lift Motor cable (E) to the proper locations on the MCB. Secure the cables with zip ties (as noted in Step 2).



Use the top screw (C1) to attach the green Lift Motor ground wire to the Frame. Be sure not to crimp any cables.



13. Reinstall the Mast, Static Handlebar, Console and Top Shroud, which were removed in Step 2. (Refer to the "Replace the Shrouds" procedure.) Turn the power on.



Machine is on. Current is active. There is risk of electrical shock.

14. From the Power Up Mode screen, push and hold down the PAUSE/STOP button and Right arrow button for about 3 seconds to go into the Console Setup Mode. The Console display will show the Edit Date screen with the current setting.

15. Push the OK button 4 times until the Console displays the TOTAL RUN HOURS screen.

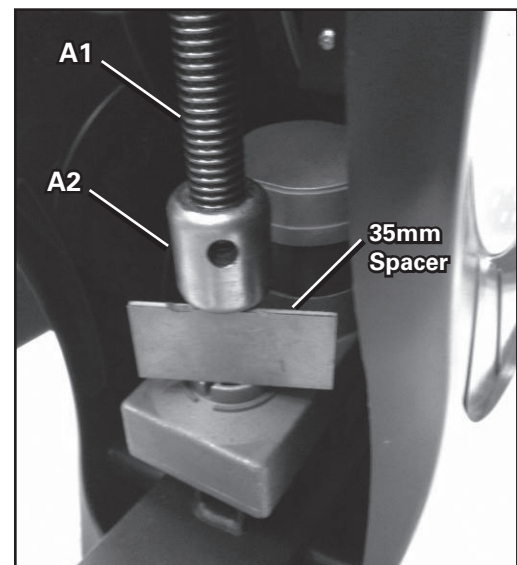
16. Hold down the PAUSE/END button and Down button together for 3 seconds. The Console display shows the Firmware Version string.

17. Push the Down arrow button 2 times to go to the MOVE LIFT option and push OK to enter the lift options menu.

18. The console displays the UP MX DN MN RT CAL prompt. Push the Down arrow so that the Lift Motor turns to the lower limit.

19. When the motor has stopped turning, adjust the nut (A2) on the shaft (A1) to 35mm above the Lift Motor base, using a ruler or 35mm spacer.

20. Adjust the nut (A2) upward away from the motor base until the holes in the nut align with the holes in the Incline Adjuster (J) bracket. Install the hex head bolts (K) to secure the bracket to the nut.



21. Push the OK button to exit the MOVE LIFT option. Push PAUSE/END to go back to the Power-Up Mode screen.

22. Push the 100% lift preset button to confirm correct operation. Push the 0% lift preset button to confirm correct operation.



Disconnect all power and allow to sit for 5 minutes.

23. Fully attach the shrouds and complete reassembly of the machine. Reassembly is the reverse procedure.

24. Final Inspection

Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

NOTICE: This document provides instructions for the replacement of the Flywheel and Drive Belt on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



13mm socket and wrench
17mm socket and wrench



Flathead screwdriver



17mm open end wrench

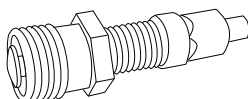


6mm hex key



2.5" x 10" cardboard and tape

Crank puller



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.
It is necessary to adjust the Drive Belt tension at the end of this procedure. Refer to the “Belt Tension Adjustment” procedure

⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

1. Carefully remove the Shrouds. Refer to the “Replace the Shrouds” procedure.

2. Insert 2.5" x 10" cardboard between the Flywheel (A) and the Brake Magnet (B), and tape the cardboard to the Brake Magnet.

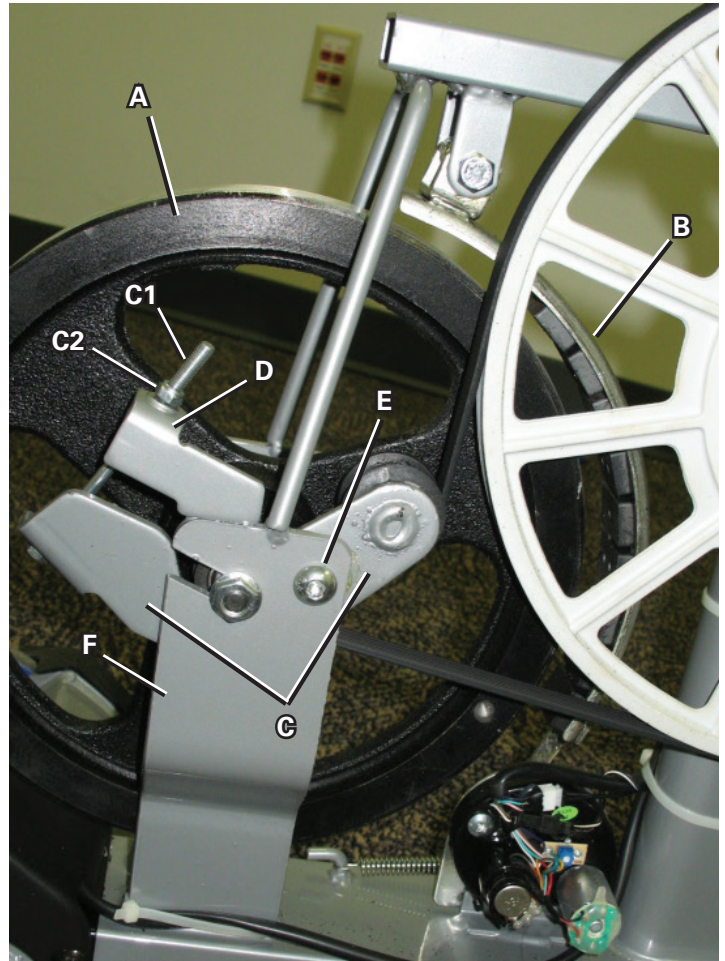
Note: Be sure the cardboard covers all of the Brake Magnet.

3. Observe the position of the Tensioner Assembly (C) on the Frame upright (F) and mark the position on the Tensioner Assembly. Measure, or mark a piece of scrap paper, the adjustment length of the Tensioner Bolt (C1) and nut (C2).

4. Using a 10 mm wrench, loosen and remove the outer nut (C2) so the Tension Bolt (C1) can be released from the Tensioner Bracket (D).

5. Using a 6mm hex key and 13mm wrench, loosen the Tensioner Assembly Hardware (E) that attaches the Tensioner Assembly (C) to the Frame upright (F).

Note: Use the hex key to hold the bolt in place on the outside and turn the nut from the inside.



6. Turn the Drive Pulley (Item G) clockwise while forcing the Drive Belt (H) to the outside. Belt will come off of the Drive Pulley.



Keep fingers out of any pinch hazards when turning the Pulleys.

7. To remove the hardware (I) from the Flywheel (A), use the 17 mm open end wrench to hold the nut on one side steady and remove the nut on the opposite side with the 17 mm socket and wrench. Set the hardware safely aside.

8. Adjust the angle of the Tensioner Assembly (C) to allow the Flywheel (A) to move forward. Remove the Flywheel from the Frame brackets (F) and the Drive Belt (H).

Note: The Flywheel is heavy. This step may require two people.

9. Remove the old Drive Belt (H) and discard it.

10. Hold the Flywheel (A) near the Frame brackets (F) and put the new Drive Belt (H) in position on the Flywheel pulley (A1). Put the Drive Belt in position around the Tensioner Assembly (C). Be sure that the upper portion of the Drive Belt is under the bearings (C3) on the Tensioner.

Note: This step may require two people.

11. Align the Flywheel axle (A2) in the Main Frame brackets (F). Hand tighten the hardware from step 4 on each end of the Flywheel axle.

12. Put the Drive Belt (H) onto the Drive Pulley (G). Make sure the Drive Belt is aligned on the Flywheel pulley (A1), Belt Tensioner (C3) and Drive Pulley.

13. Before you fully tighten the Flywheel hardware (I), adjust the Tensioner Assembly (C) to the position marked in step 3 and tighten the hardware (E, C1, C2). Make sure that the belt tension is correct. Refer to the "Belt Tension Adjustment" section in this manual.

Note: This step may require two people.

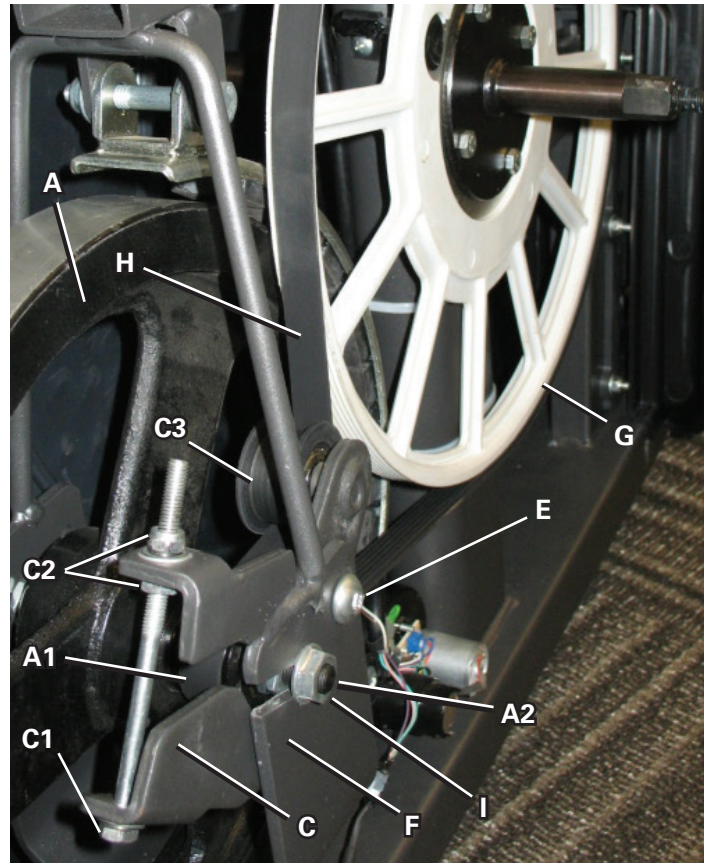
14. To tighten the Flywheel hardware (I), use the 17mm open end wrench to hold the nut on one side steady and tighten the nut on the opposite side with the 17mm socket and wrench.

Note: Before fully attaching the Shrouds, power up the machine to verify that the Magnet Arm (B) can move freely, and that the Brake Magnet and Flywheel (A) do not touch at the maximum resistance level.

15. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.



NOTICE: This document provides instructions for the replacement of the Tensioner Assembly on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

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DANGER

To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
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- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



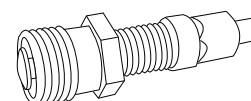
13mm socket and wrench



Large flathead screwdriver



Crank puller



6mm hex key



10mm open end wrench



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.
It is necessary to adjust the Drive Belt tension at the end of this procedure. Refer to the “Belt Tension Adjustment” procedure



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Note: Your machine may not match the image. For reference only.

1. Carefully remove the Shrouds. Refer to the “Replace the Shrouds” procedure.

2. Measure, or mark a piece of scrap paper, the adjustment length of the Tensioner Bolt (D) and nut (C).

3. Using a 10 mm wrench, loosen and remove the outer nut (C) so the Tension Bolt (D) can be released from the Tensioner Bracket (E).

4. Using a 6mm hex key and 13mm wrench, remove the Tensioner Assembly Hardware (A) that attaches the Tensioner Assembly (B) to the frame upright.

Note: Use the hex key to hold the bolt (A) in place on the outside and turn the nut from the inside.

5. Remove the Tensioner Assembly (B) from the Frame Assembly and the Drive Belt.

6. Installation is the reverse procedure.

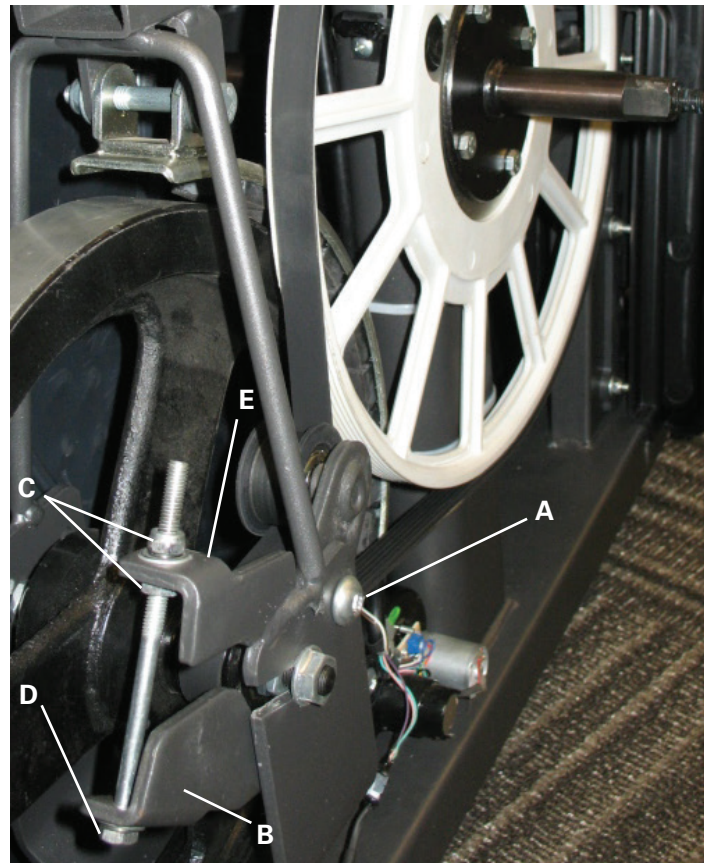
Note: Be sure to adjust the replacement Tensioner Bolt (D) and nuts (C) to the previous length.

7. Dispose of the old parts.

8. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner’s Manual.



NOTICE: This document provides instructions for the replacement of the Speed Sensor Assembly on the Nautilus™ E614 and E616 (Model Year 2014) and E616 (Model Year 2017) Elliptical fitness machines.

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

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- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



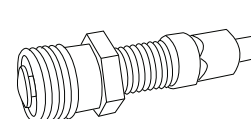
13mm socket and wrench



Flathead screwdriver



Crank puller



6mm hex key



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.

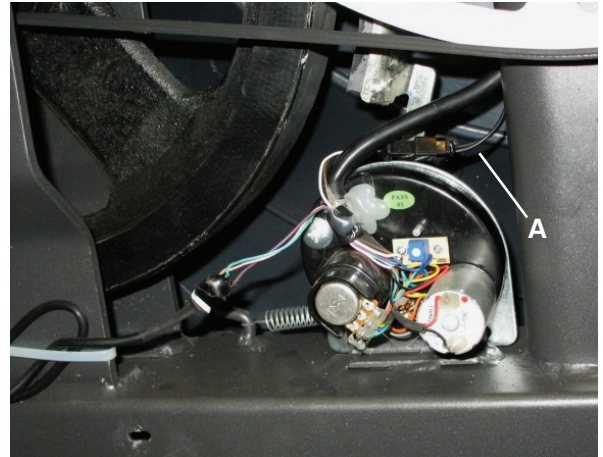
⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

1. Carefully remove the Shrouds. Refer to the “Replace the Shrouds” procedure.

2. Disconnect the Speed Sensor Cable (A).

NOTICE: Do not crimp the cables.



3. Using a #2 Phillips screwdriver, remove the indicated bolt (B) from the RPM Sensor Assembly (C).

Note: The Speed Sensor Magnet (D) is on the Drive Pulley Assembly.

4. Remove the RPM Sensor Assembly (C) and replace with the new assembly.

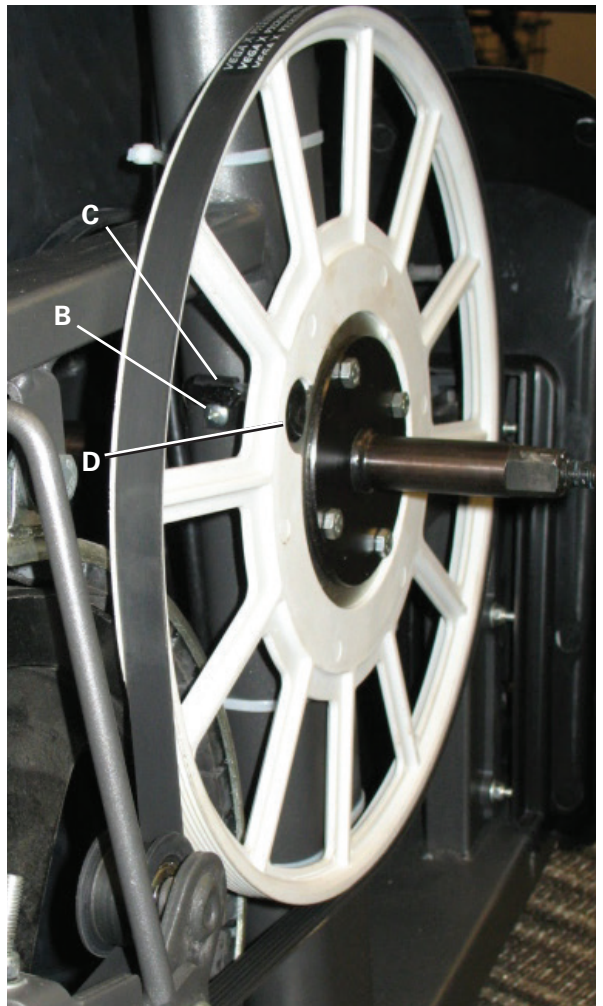
5. Installation is the reverse procedure.

NOTICE: Do not crimp any cables. Be sure the routing for the new RPM Sensor cable (A) and other wiring is correct to prevent interference from moving parts.

Note: Before fully attaching the Shrouds, verify that the RPM Sensor (C) and Speed Sensor Magnet (D) on the Drive Pulley do not touch.

6. Dispose of the old parts.

7. Inspect your machine to ensure that all hardware is tight and components are properly assembled.



⚠ Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner’s Manual.

NOTICE: This document provides instructions for the replacement of the Power Switch Assembly on the Nautilus™ E616 Elliptical fitness machine (Model Year 2014 and 2017).

If you need assistance, please contact Customer Service (if purchased in US/Canada) or your local distributor (if purchased outside US/Canada). To find your local distributor, go to: www.nautilusinternational.com

! This icon means a potentially hazardous situation which, if not avoided, could result in death or serious injury. Read and understand all Warnings on this machine.

Nautilus, Inc., www.NautilusInc.com, 5415 Centerpoint Parkway, Groveport, OH 43125 U.S.A. - Customer Service: North America (800) 605-3369, csnls@nautilus.com | outside U.S. www.nautilusinternational.com | © 2014 Nautilus, Inc. | Nautilus and the Nautilus logo are trademarks owned by or licensed to Nautilus, Inc., which are registered or otherwise protected by common law in the United States and other countries. | ORIGINAL DOCUMENT - ENGLISH VERSION ONLY

Important Safety Instructions - Before servicing or using this equipment, obey the following warnings:

! This icon means a potentially hazardous situation which, if not avoided, could result in death or serious injury. Read and understand all Warnings on this machine.

DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and wait 5 minutes before cleaning, maintaining or repairing this machine. Place the power cord in a secure location.

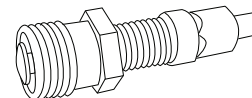
- Read and understand the Part Replacement Procedure before working on the machine. Failure to obey the instructions and safety warnings could cause injury to the service technician or bystanders.
- Keep bystanders and children away from the product being serviced at all times.
- Make sure that the repair is done in an appropriate work space away from foot traffic and exposure to bystanders.
- Some components of the equipment can be heavy or awkward. Enlist the service of a second person when you do maintenance steps involving these components. Do not try to do heavy or awkward steps on your own.
- If replacement parts are necessary, use only genuine Nautilus replacement parts and hardware. Failure to use genuine replacement parts can cause a risk to users, keep the machine from operating correctly and void the warranty.
- Be sure that all warning stickers and instructional placards applied to the product stay present and in good condition when doing maintenance or replacing components. If at any time the Warning labels become loose, unreadable or dislodged, replace the labels. If purchased in US/Canada, contact Customer Service for replacement labels. If purchased outside US/Canada, contact your local distributor for them.
- Do not try to change the design or functionality of the machine being serviced as this can adversely affect user safety.
- Do not use the machine until all shrouds, instructions, warning labels and correct functionality have been verified and tested for correct performance.

Tools Required (not included)

#2 Phillips screwdriver



Crank puller



Flathead screwdriver



13mm open end wrench



14mm socket and ratchet



6mm hex key



NOTICE: It is necessary to remove the Shrouds for this procedure. Refer to the “Replace the Shrouds” procedure.

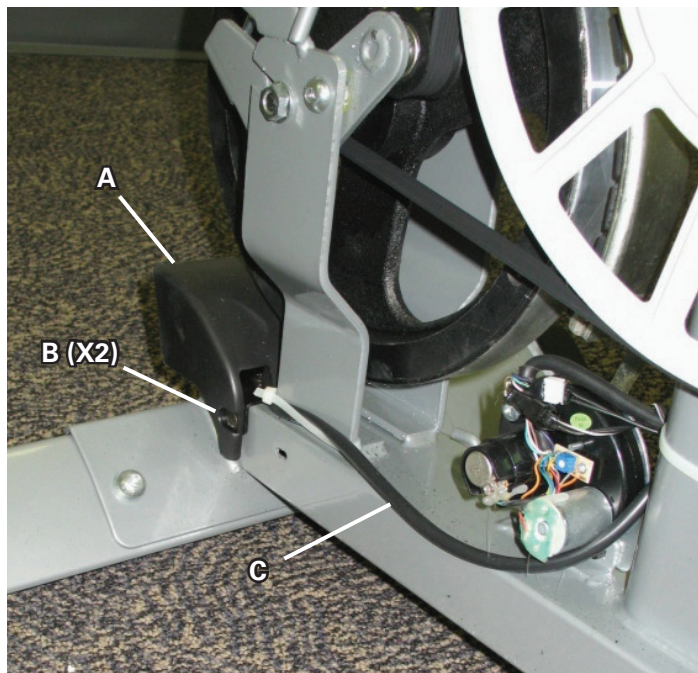
⚠ DANGER To reduce the risk of electrical shock or unsupervised usage of the equipment, always unplug the power cord from the wall outlet and the machine and wait 5 minutes before cleaning, maintaining or repairing the machine. Place the power cord in a secure location.

Note: Your machine may not match the image. For reference only.

1. Remove the Shrouds. Refer to the “Replace the Shrouds” Procedure.

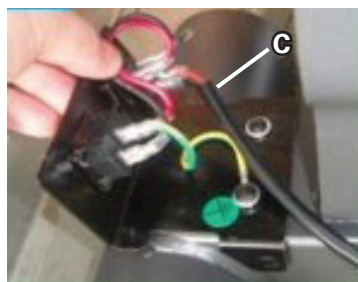
2. Loosen and remove the screws (B) that attach the back cover of the Power Switch assembly (A) to the sides of the Frame. Remove the back cover.

NOTICE: Do not crimp the cable.



3. Carefully disconnect the Power Inlet cable (C) from the Power Switch assembly.

4. Loosen and remove the screws (D1, D2) that attach the Power Inlet bracket to the Frame. Remove and discard the old Power Switch assembly.



The Power Switch assembly shown is on a Schwinn™ 470 machine.

5. Installation is the reverse procedure.

⚠ Use screw D1 to attach the green ground wire to the bracket and Frame. Be sure not to crimp any cables.

6. Inspect your machine to ensure that all hardware is tight and components are properly assembled.

⚠ Do not use until the machine has been fully assembled and inspected for correct performance in accordance with the Owner's Manual.

