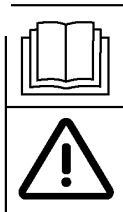




TREADMASTER™ ESCALATOR CLEANER

INFORMATION AND OPERATING INSTRUCTIONS

Models	100-100-001	Models	100-100-221
	100-100-002		100-100-222
	100-100-003		100-100-223
	100-100-004		
	100-100-005		



**SAVE THESE
INSTRUCTIONS**



IMPORTANT SAFETY INSTRUCTIONS



When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THE TREADMASTER

U.S. Products
11015 47th Avenue West, Mukilteo, Washington 98275

MAN-44183 Rev. E, July 3, 2014
(P/N 000-182-100)

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000-182-100

EN = ENGLISH (120 V/230 V)

FR = CANADIAN FRENCH (120 V)



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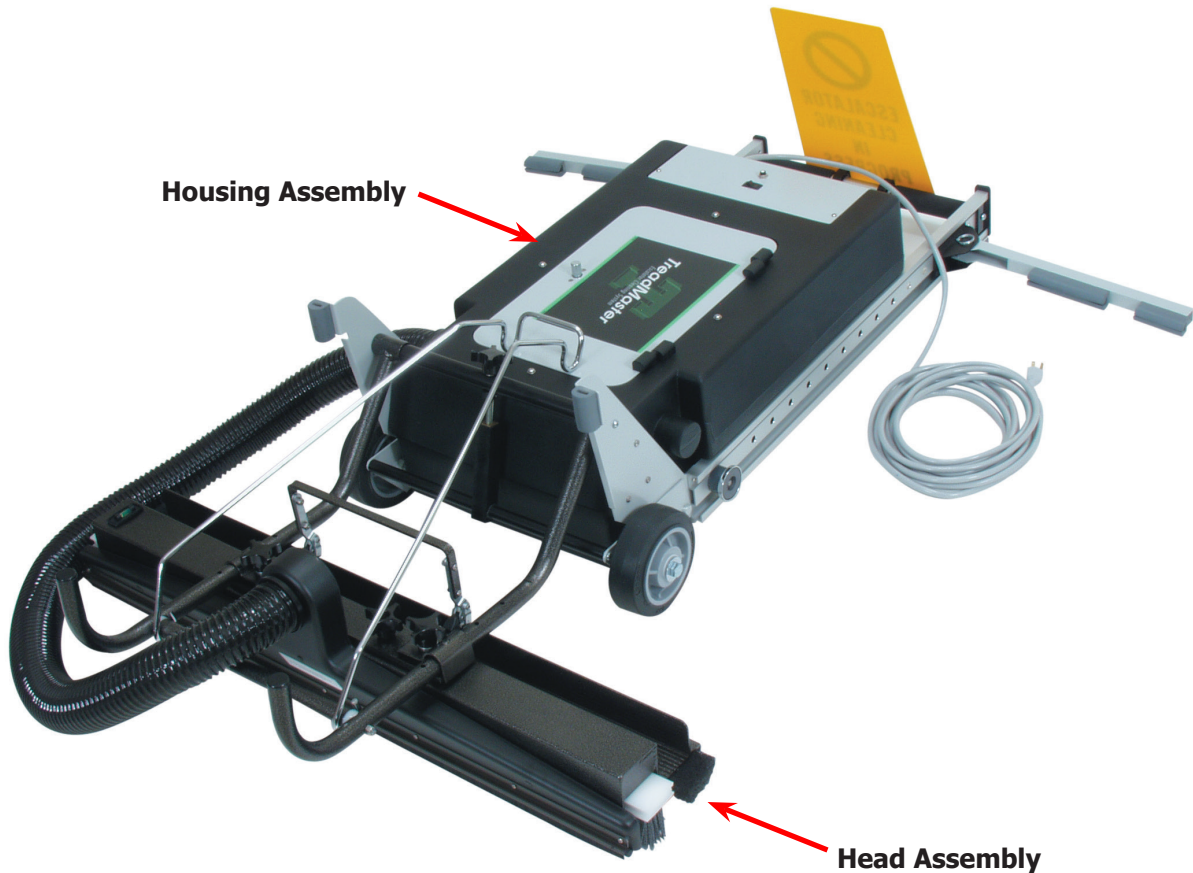
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GENERAL INFORMATION

The TreadMaster is a specialized machine designed to clean escalators and moving sidewalks (horizontal “people movers”) in commercial establishments such as airports, hotels, shopping malls, schools, hospitals, factories, shops and offices.



It is simple to set up and automatic in its operation. The TreadMaster’s weighted head assembly fits down into the tread of the escalator to loosen soil and debris. A vacuum chamber and nozzle collects and deposits the loose debris in a vacuum bag, which is located in the housing assembly. A polishing pad then finishes cleaning the top of the tread.

The TreadMaster is available in five basic head assemblies, and can also be custom built according to the step width of your escalator or moving walkway. The same housing can be used or interchanged with any of the custom-sized head assemblies. See Table 1 and Table 2 on page 34 for detailed configuration information.

This document contains operation instructions as well as information required for proper maintenance of the TreadMaster. It is the purpose of this document to help you properly understand, maintain and service your TreadMaster. Follow the directions carefully and you will be rewarded with years of profitable, trouble-free operation.

It is imperative that no section of this document be overlooked when operating and maintaining the TreadMaster. Please read the contents to familiarize yourself with the operation of your TreadMaster, paying special attention to all **Warnings and Cautions.**



APPROVALS/CERTIFICATIONS

CSA Approved

Your machine has been designed and tested to comply with the Canadian standard for this class of equipment. It has been tested under the following standard:

CSA C22.2#243

Issue:2001/12/07 Ed. 3 Rev:2001/06/15 Vacuum Cleaners, Blower Cleaners, and Household Floor Finishing Machines; General Instruction No 1; UL 1017 (R2006)

If it is necessary to provide verification, your machine is labeled with an ETL mark.

CAUTION

Do not remove or tamper with any part of the TreadMaster; this may result in a non-compliance with the above standard.

CONTACT INFORMATION

If you have any questions regarding the operation, maintenance or repair of this machine, refer to the following information and contact the appropriate U.S. Products department.

<u>Hours</u>	<u>Telephone Numbers</u>	<u>E-mail Addresses</u>
Monday-Friday	(425) 322-0133 Support	Tech Support: techsupport@usproducts.com
7:00 a.m. to 5:00 p.m.	(800) 257-7982 Parts	Parts Support: csorders@usproducts.com
Pacific Time	FAX (425) 322-0136	

When calling or contacting us, be sure to reference the serial number and date of purchase.

FOR YOUR REFERENCE

Model: TreadMaster

Serial Number: _____

Purchase Date: _____

Name and phone number of your distributor:



WARNINGS, CAUTIONS AND NOTICES

⚠ WARNING

U.S. Products uses this WARNING symbol throughout this document to warn of possible injury or death.

CAUTION

This CAUTION symbol is used to warn of possible equipment damage.

NOTICE

This NOTICE symbol indicates that federal or state regulatory laws may apply, and also emphasizes supplemental information.

Warnings and Cautions specific to the TreadMaster include the following. To reduce the risk of fire, electric shock, or injury:

⚠ WARNING

Turn off all controls before unplugging the TreadMaster. Failure to do so can cause bodily injury.

⚠ WARNING

Unplug the TreadMaster from outlet when it is not in use and before servicing. Failure to do so can cause bodily injury.

⚠ WARNING

Do not unplug the TreadMaster by pulling on its cord. To unplug, grasp the plug, not the cord. Failure to follow this warning can result in a damaged power cord, leading to the possibility of electric shock and serious bodily injury or death.

⚠ WARNING

Do not handle the plug or the TreadMaster with wet hands. Failure to follow this warning can cause bodily injury.

⚠ WARNING

Do not use the TreadMaster outdoors (except in arenas or stadiums) or on wet surfaces. This machine is for dry use only and shall not be used or stored in uncovered outdoor venues or in wet conditions. Failure to follow this warning can cause bodily injury.

⚠ WARNING

Do not allow anyone to sit or stand on the TreadMaster. Failure to follow this warning can cause bodily injury.

Do not allow to be used as a toy. Close attention is necessary when used near children.

⚠ WARNING

Use the TreadMaster only as described in this manual. Use only manufacturer's recommended attachments. Failure to do so can cause bodily injury.



⚠ WARNING

Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center. Failure to follow this warning can result in the possibility of electric shock, serious bodily injury and/or death.

⚠ WARNING

Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces. Failure to follow this warning can result in a damaged power cord, leading to the possibility of electric shock and serious bodily injury or death.

⚠ WARNING

Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow. This machine is not suitable for accumulating, gathering or otherwise picking up health-endangering dust. Failure to follow this warning can cause bodily injury.

⚠ WARNING

Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts. Failure to do so can cause bodily injury.

⚠ WARNING

Do not use without vacuum bag and/or filters in place. Failure to follow this warning can cause bodily injury.

⚠ WARNING

Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present. Failure to follow this warning can lead to the possibility fire and/or explosion. This can result in serious bodily injury or death.

⚠ WARNING

Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes. Failure to follow this warning can lead to the possibility fire and/or explosion. This can result in serious bodily injury or death.

⚠ WARNING

Before setting up the machine, turn off the escalator or moving sidewalk. Failure to do so can cause bodily injury.

⚠ WARNING

This appliance must be grounded. Connect to a properly grounded outlet only. See Grounding Instructions on page 17 of this document. Failure to properly ground the equipment can result in the possibility of electric shock and serious bodily injury or death.

⚠ WARNING

If the plug on the power cord is damaged, dispose of the cord. To prevent possible electric shock, DO NOT insert the damaged plug into an electrical socket. Failure to follow this warning can result in the possibility of electric shock and serious bodily injury or death.

⚠ WARNING

Use extra care when cleaning on stairs.

CAUTION

Match the size of the TreadMaster head assembly to the size of the step you are cleaning. Do not use a 24" head to clean a 32" or 40" step.

CAUTION

Always place the TreadMaster where the steps are moving away from the unit. The TreadMaster can be operated from the top or the bottom of the escalator; however, bottom placement is preferred.

NOTICE

The power cord for the following models is not supplied by the manufacturer; it must be supplied by the operator:

- 100-100-221
- 100-100-222
- 100-100-223



MACHINE SPECIFICATIONS

Housing Assembly Dimensions	21.5" W x 31.5" L x 47" H (55 cm W x 80 cm L x 119 cm H)		
Housing Assembly Weight	84 lbs (38 kg)		
Brush and Head Assembly Dimensions and Weight	22" Head	7" W x 22" L x 10" H (18 cm W x 56 cm L x 25 cm H)	58 lbs (26 kg)
	24" Head	7" W x 24" L x 10" H (18 cm W x 61 cm L x 25 cm H)	58 lbs (26 kg)
	32" Head	7" W x 32" L x 10" H (18 cm W x 81 cm L x 25 cm H)	69 lbs (31 kg)
	37" Head	7" W x 37" L x 10" H (18 cm W x 94 cm L x 25 cm H)	80 lbs (36 kg)
	40" Head	7" W x 40" L x 10" H (18 cm W x 102 cm L x 25 cm H)	80 lbs (36 kg)
Vacuum Motor	Two 1 5/8 HP motors		
Power Consumption	120 V AC	230 V AC	
	12 Amps	6.8 Amps	
	50/60 Hz	50/60 Hz	
	1,440 Watts	1,564 Watts	
Construction	Durable rotomolded housing - Polyethylene UL-94V2 Rated		
	Two nonmarking rubber wheels		
	Extruded aluminum frame		

TREADMASTER OPTIONS AND ACCESSORIES

Part Number	Description
190-100-014	Head Assembly, 22" w/ Nylon Grit Brush
190-100-011	Head Assembly, 24" w/ Nylon Grit Brush
190-100-012	Head Assembly, 32" w/ Nylon Grit Brush
190-100-015	Head Assembly, 37" w/ Nylon Grit Brush
190-100-013	Head Assembly, 40" w/ Nylon Grit Brush
190-100-002	TreadMaster Housing (120 V)
190-100-201	TreadMaster Housing (230 V)
101-100-028	Spare Brush, 22" and 24" Nylon Grit
101-100-029	Spare Brush, 32" Nylon Grit
101-100-030	Spare Brush, 37" and 40" Nylon Grit
105-100-018	Nozzle Assembly, 24" Vacuum
105-100-019	Nozzle Assembly, 32" Vacuum
105-100-020	Nozzle Assembly, 40" Vacuum
000-016-062	Brush, Vacuum 24"
000-016-063	Brush, Vacuum 32"
000-016-064	Brush, Vacuum 40"
000-016-060	Escalator Riser Brush
101-100-031	Spare Soft Brush for Painted Escalators, 22" and 24"
101-100-032	Spare Soft Brush for Painted Escalators, 32"
101-100-033	Spare Soft Brush for Painted Escalators, 37" and 40"
000-078-201	Spare Polishing Pads, 22" and 24" (6 per case)
000-078-203	Spare Polishing Pads, 32" (6 per case)
000-078-205	Spare Polishing Pads, 37" and 40" (6 per case)
000-049-115	Vacuum Bag, Cloth (each)
000-031-105	Escalator Tread Spot Cleaner, Case (10 oz. [0.3 litre] aerosol cans, 6 cans per case)*

NOTICE

*U.S. Products's Escalator Tread Spot Cleaner is a fast acting spot cleaner designed specially for use on aluminum escalator steps. Spot Cleaner is non-flammable and non-conductive so it can be used while the TreadMaster is operating.

CAUTION

Use of any other chemical may clog components and could void the warranty.

MEASURING INFORMATION

Before ordering an additional or replacement head assembly, be aware that specific measurements are needed to effectively and efficiently process your order.

To properly measure the escalator or moving sidewalk, refer to Figure 1 and follow these guidelines:

1. With a measuring device, measure the horizontal distance from side wall to side wall, on the bottom step (see solid arrows in Figure 1).

NOTICE

If safety brushes are installed on the escalator or moving sidewalk, measure the horizontal distance from brush tip to brush tip, on the bottom step (see dashed arrows in Figure 1).

2. Subtract 1/2" from the measurement. This is the number you will be asked to provide when you place your order.

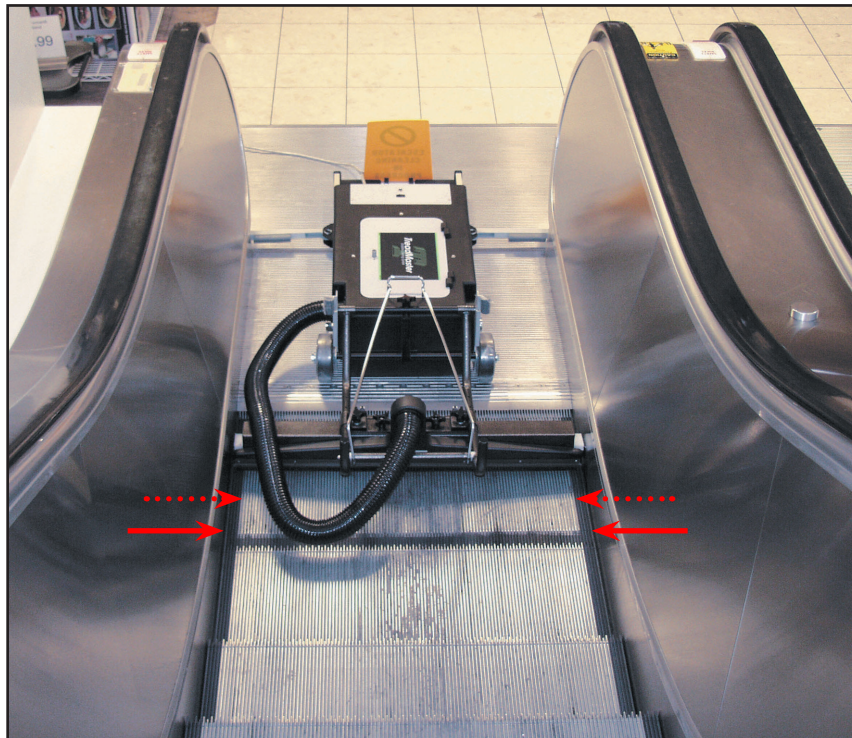


Figure 1. Accurate Measurements Needed Before Ordering Brush and Head Assembly

If you have any questions or need more information about the measuring process, contact U.S. Products Sales at 1-800-257-7982.

INSPECTION, INSTALLATION AND TRANSPORTING

INSPECTING ASSEMBLIES

After receiving your TreadMaster, carefully unpack the boxes and inspect the housing assembly, brush and head assembly for shipping damage.

No matter which TreadMaster configuration you order (see Table 1 and Table 2 on 34), you can receive up to three major assemblies in your shipment unless you specify otherwise:

1. Soft Brush for Painted Escalators
2. Housing Assembly
3. Head Assembly

Each machine is tested and inspected before being shipped. Any shipping damage incurred is the responsibility of the carrier. You should notify the carrier immediately if you notice damage to the box, to the machine or any parts.

INSTALLING NEW HEAD ASSEMBLY

For the initial setup, install the head assembly by:

1. Placing the head assembly and housing assembly on a flat surface (see Figure 2).
2. Unfastening the two fluted knobs on the head assembly (see Figure 2 and Figure 3).

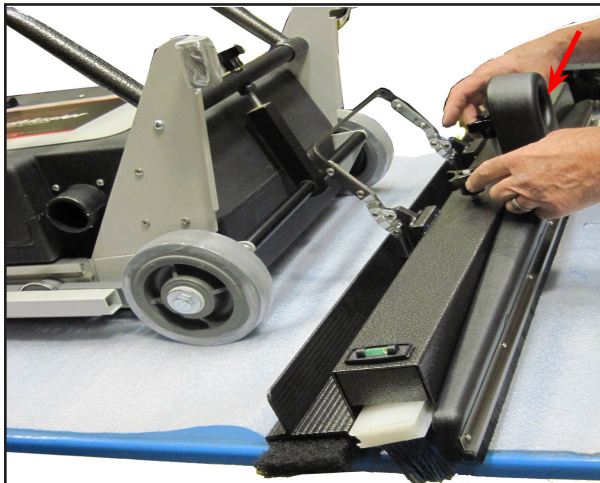


Figure 2. Position Assemblies Together, on Flat Surface

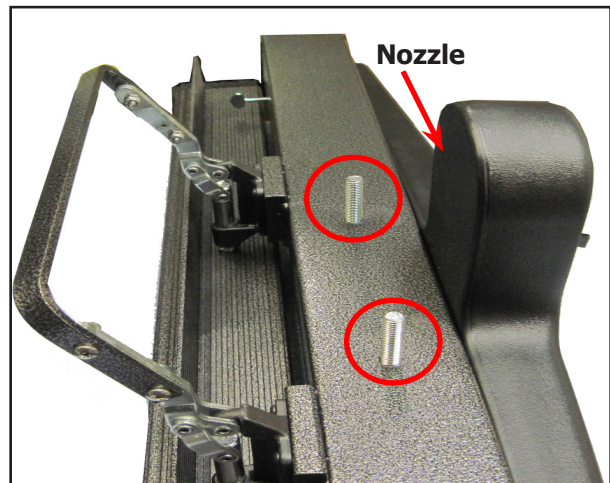


Figure 3. Fluted Knobs Removed from Head Assembly; Nozzle Facing Outward

NOTICE

Note that the nozzle opening is facing outward during installation.

3. Position the housing assembly's lift arm onto the head assembly, aligning the mounting holes on the lift arm with the fasteners on the head assembly (see Figure 4).

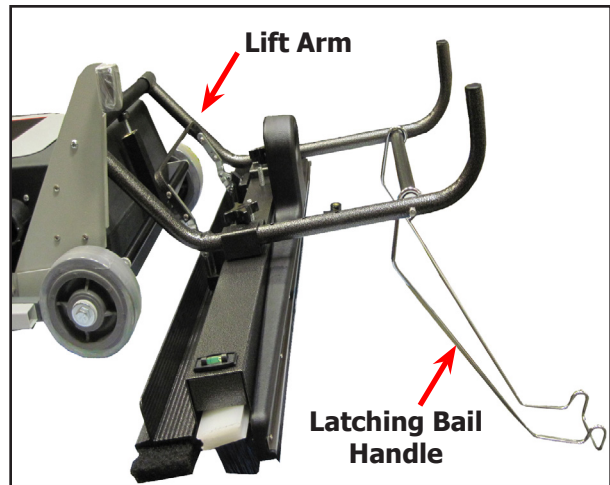
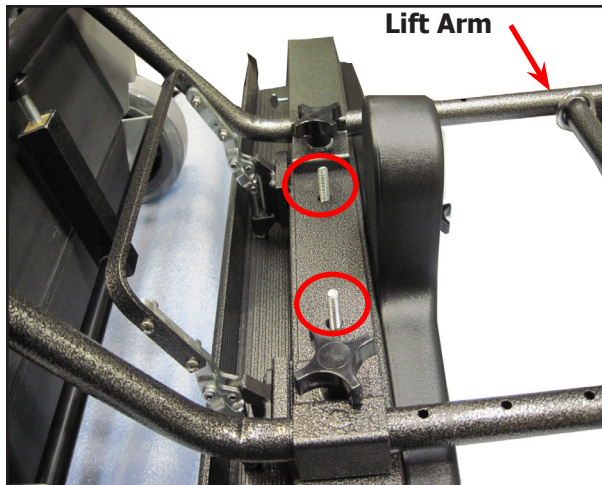


Figure 4. Position Pad Holder Lift Arm on Head Assembly

4. Secure the head assembly to the lift arm by re-installing the two fluted knobs (see Figure 5).

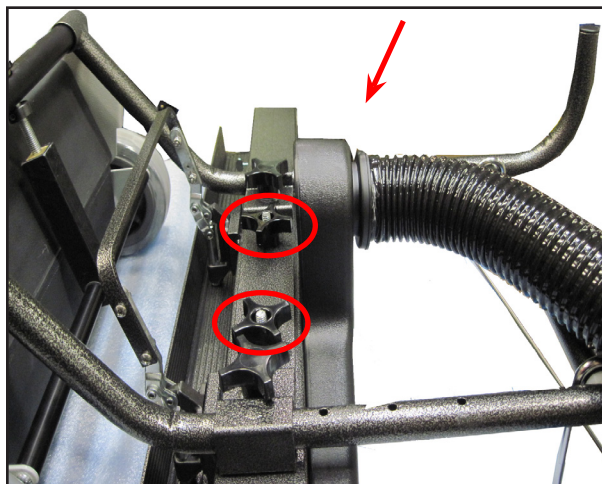


Figure 5. Secure Head Assembly with Fluted Knobs; Attach Hose to Nozzle

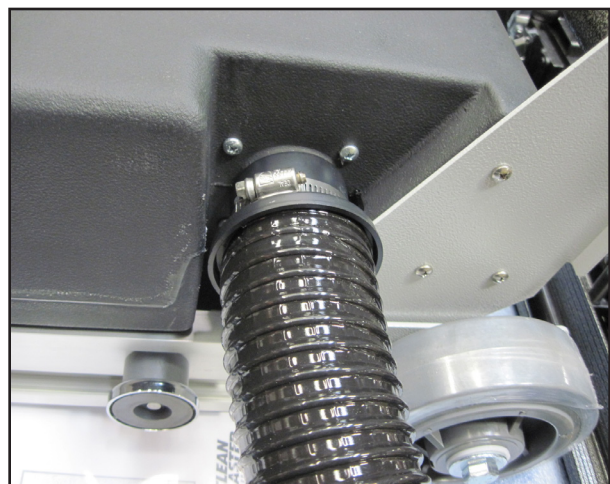


Figure 6. Attach Other End of Hose to Housing Assembly

5. Attach the vacuum hose between the housing and the cleaning nozzle. The hose connector with the shorter end should be connected to the cleaning nozzle assembly (see Figure 5). The hose connector with the longer end is connected to the housing (see Figure 6) and should be secured by tightening the clamp.

INSERTING A DIFFERENT BRUSH INTO HEAD ASSEMBLY

If you want to replace a brush — for example, in the case of removing the nylon grit brush and replacing it with the Soft brush for painted escalators — follow these steps:

1. Turn off the TreadMaster.
2. Loosen the thumb screw on the head assembly (see Figure 7).

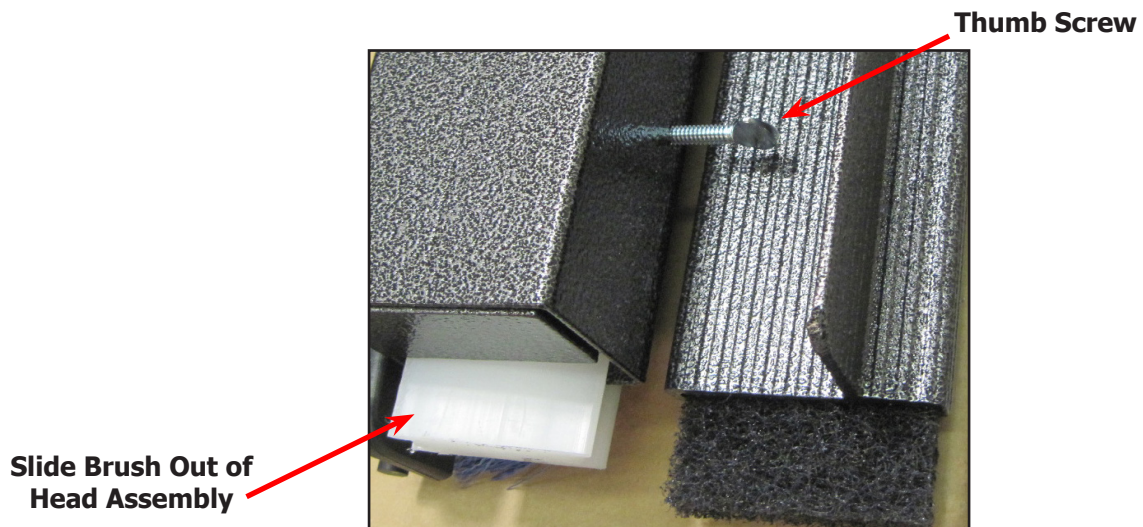


Figure 7. Loosen Thumb Screw and Slide Brush Out of Head Assembly

3. Slide the brush out of the head assembly.
4. Insert the new brush.
5. Tighten the thumb screw.
6. Turn on the TreadMaster and resume cleaning.

TRANSPORTING/STORING THE TREADMASTER

To move or store the TreadMaster:

1. Turn off the TreadMaster.
2. Unplug the cord from the power source and the TreadMaster.
3. Store the cord and the escalator cleaning sign in the storage compartment.
4. Attach the latching bail handle to the end of the housing assembly's handle as shown in Figure 8.
5. Position the TreadMaster in the upright position.



Figure 8. Attach Latching Bail Handle to Housing Assembly's Handle and Position TreadMaster in Upright Position



GROUNDING INSTRUCTIONS

During operation, the TreadMaster must be electrically grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

This appliance is equipped with a cord which has an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

⚠ WARNING

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do NOT modify the plug provided with the appliance.

The TreadMaster is intended to be connected to a 15 Amp circuit, is for use on a circuit having a nominal rating of 120 V or 230 V, and is factory-equipped with a specific electric cord and plug to permit connection to a proper electric circuit.

NOTICE

In Canada, the use of a temporary adapter is not permitted by the Canadian Electrical Code.

⚠ WARNING

Make sure that the TreadMaster is connected to an outlet having the same configuration as the plug. No adapter should be used with this machine. Failure to connect the TreadMaster to a proper outlet can result in bodily injury.

OPERATING INSTRUCTIONS

PREPARATION

1. Ensure that the escalator is not moving.
2. Wheel the TreadMaster to the escalator or moving sidewalk in the TreadMaster's upright position (see Figure 9).



Figure 9. TreadMaster Shown in Upright Position



Figure 10. TreadMaster Shown in Preferred Placement, at Bottom of Escalator

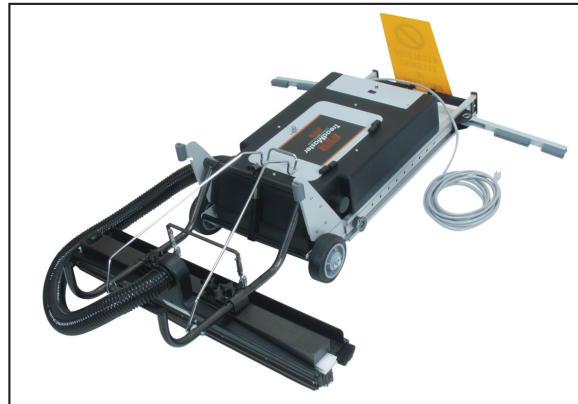


Figure 11. TreadMaster Shown in Flat Position

CAUTION

Always place the TreadMaster where the steps are moving away from the unit. The TreadMaster can be operated from the top or the bottom of the escalator, however, bottom placement is preferred (see Figure 10).

3. Center the unit on the floor plate, between the handrails of the escalator or moving sidewalk.
4. Unlock the lifting arm and slowly lower the cleaning head onto the threshold.
5. Lower the unit until it lays flat on the floor (see Figure 11).

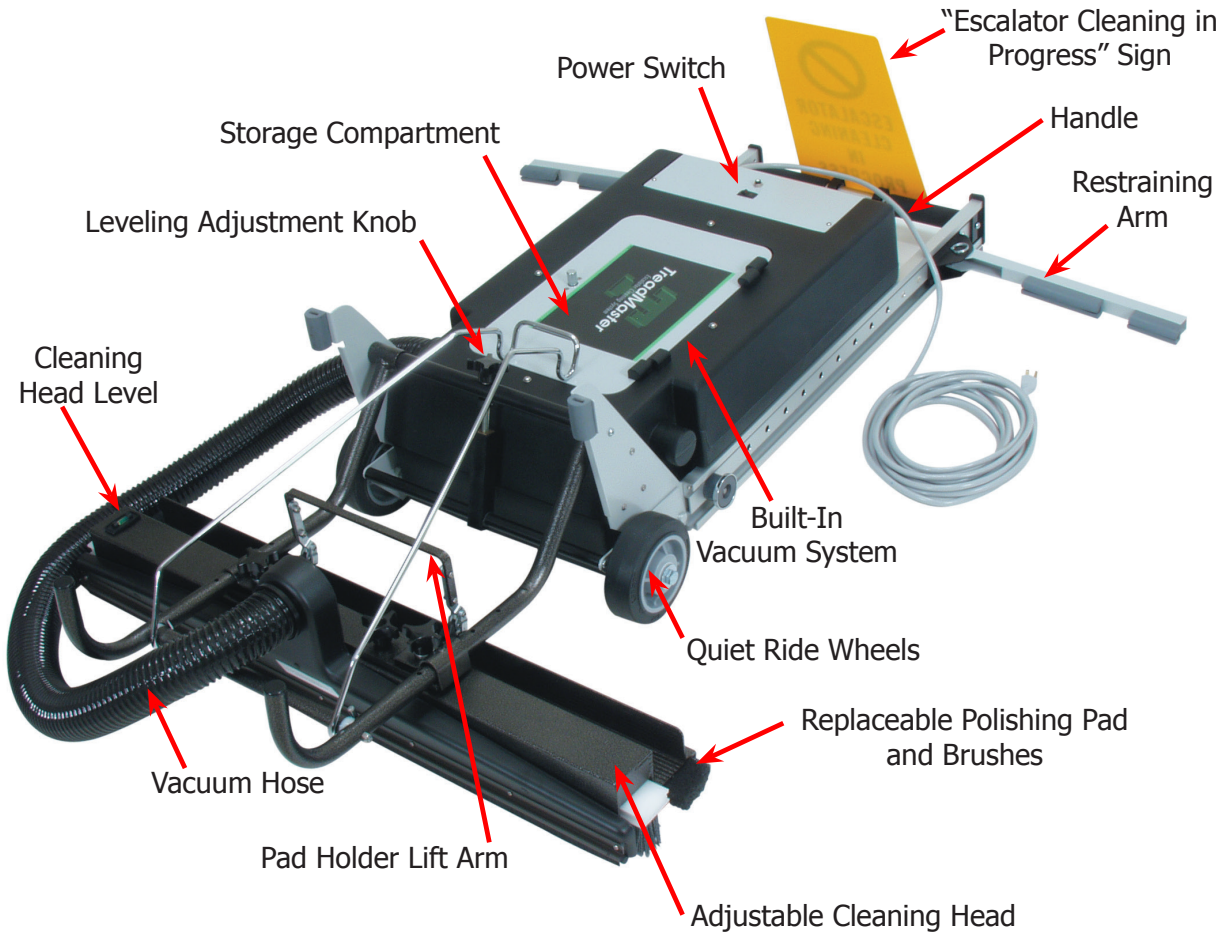


Figure 12. Components of TreadMaster

CAUTION

Do not operate this machine without the restraining arms in place as it could damage the TreadMaster and/or the escalator/moving sidewalk.

WARNING

Make sure that the warning sign is clearly visible at all times during operation of the TreadMaster as indicated in Figure 12. If anyone attempts to use the escalator/moving sidewalk during cleaning operations, serious injury could result.

- Slide the restraining arms in their channel to position the cleaning head over the tread. Notice that the pin in the end of the arm will fit into one of the holes in the channel, locking the arm into place. Extend the restraining arms to their full locked position (see Figure 12 and Figure 13).
- Slide the TreadMaster into the treadwell, making sure the restraining arms are firmly seated against the balustrades (see Figure 13).
- Use the leveling adjustment knob to ensure proper contact with the tread surface (see Figure 12). Check the cleaning head level to ensure proper adjustment (see Figure 12 and Figure 14).
- Adjust the depth of the cleaning head with the fluted knobs on the cleaning head (see Figure 15).
- Remove the power cord, vacuum hose and warning sign from the storage compartment.



Figure 13. Ensure Restraining Arms are Firmly Seated Against Balustrades

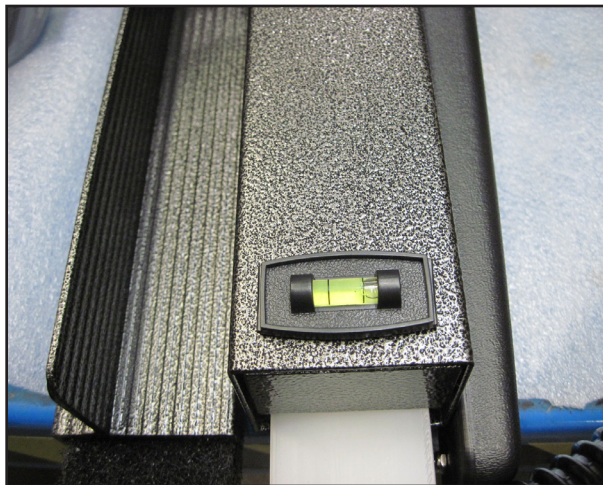


Figure 14. Location of Cleaning Head Level

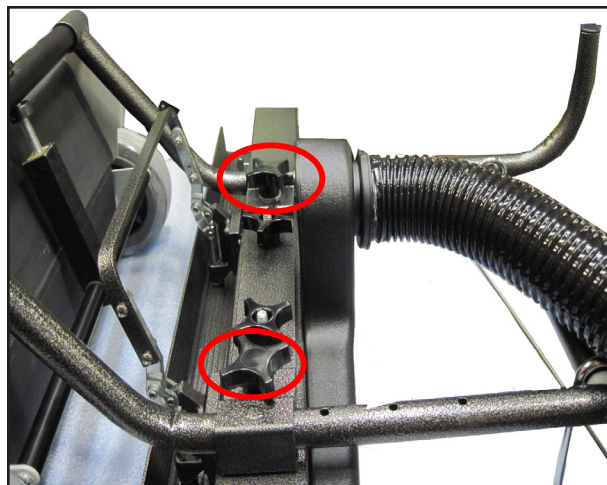


Figure 15. Adjust Depth of Cleaning Head with Fluted Knobs

- Attach the vacuum hose between the cleaning head and the tank nozzle (see Figure 12).

OPERATION

1. To seat the cleaning brush in the grooves, set the polishing pad holder lift arm in the "up" position (see Figure 16).
2. Attach the warning sign to the crossbar handle (see Figure 13).
3. Plug in the power cord at the machine receptacle first; then, plug the cord into the nearest rated outlet.

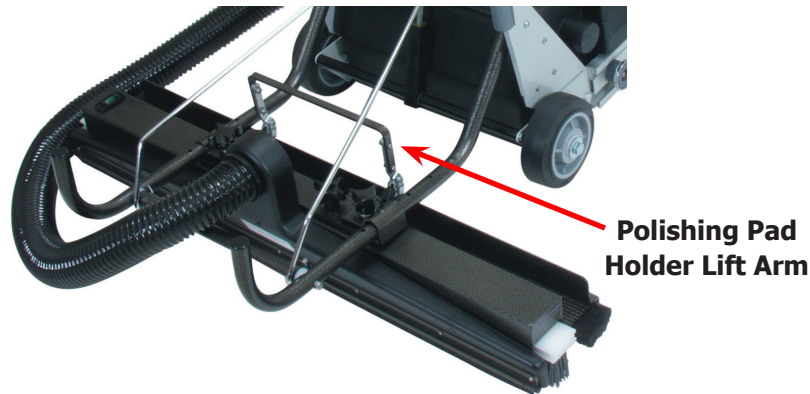


Figure 16. Set Lift Arm in Up Position

4. Prior to starting the escalator/moving sidewalk, review Steps 2 – 11 on pages 19 – 21.
5. Turn on the TreadMaster's power switch (see Figure 12).
6. Turn on the escalator and again make sure the direction of travel is away from the TreadMaster.

NOTICE

For first-time cleaning, U.S. Products recommends that the unit be allowed to run for 1 hour for optimum results.



POLISHING

Pull the pad holder lift arm back toward the machine and down (see Figure 16). This lowers the polishing pad to the tread surface and simultaneously lifts the brush bristles from the grooves.

TOUCH-UP CLEANING HINTS

Perform these simple steps to prolong the service life of your equipment and reduce replacement costs:

1. Disconnect the hose from the vacuum head and attach the crevice tool.
2. Before moving the unit, vacuum the loose dirt (which was created by the scrubbing action of the brush) from around the cleaning head.
3. Raise the head assembly and vacuum off the pad surface and the brush.

DAILY MAINTENANCE

⚠ WARNING

Before performing any maintenance on the TreadMaster, turn off the machine and unplug the power cord, ensuring that you remove the power source from the machine. Failure to do so can result in bodily injury.

REFRESHING AND REPLACING THE BRUSH

1. Place the polishing pad in the operating (down) position.
2. Withdraw the brush from its holder and inspect the bristles for wear.
3. If the nylon grit bristles show obvious signs of wear, turn the brush around and re-insert, with the fresh bristles at the leading edge. This will allow for an even, more economical wear.
4. When the brush becomes ineffective, remove and replace.

REPLACING THE POLISHING PAD

1. Place the unit in its upright storage position.
2. Grip both ends of the pad and pull away from its Velcro® holding strips. For economy, the pads are reversible end for end as well as face for face.
3. To replace the pad, simply align on the Velcro holder and press firmly into place.

USING THE RISER BRUSH

The riser brush is used to remove dirt particulates which adhere to the vertical face of the escalator, or riser (see Figure 17).

To use this riser brush, attach a broom handle to the brush and sweep the riser face. As the dirt falls, it will be collected by the TreadMaster as the escalator cycles.



Figure 17. Vertical Face of Escalator is Riser

CLEANING THE VACUUM BAG

1. Open the storage compartment cover, remove the bag from its holder by releasing the safety catch.
2. Dispose of the contents in the appropriate manner and replace the bag.
3. Close and latch the storage compartment cover.



ELECTRICAL SYSTEM

Refer to Figure 18 - Figure 20 for the 120 V wiring diagram and electrical schematic, and refer to Figure 21 and Figure 22 for the 230 V wiring diagram and electrical schematic.

NOTICE

Wires are colored in accordance with the following code:

120 V Configuration	230 V Configuration
Green/Yellow - Ground	Green/Yellow - Ground
Blue - Neutral	Blue - Live
Brown - Live	Brown - Live

NOTICE

The power cord for the following models is not supplied by the manufacturer; it must be supplied by the operator:

- 100-100-221
- 100-100-222
- 100-100-223

Figure 18. TreadMaster Wiring Diagram – 120 V (Power Circuit)

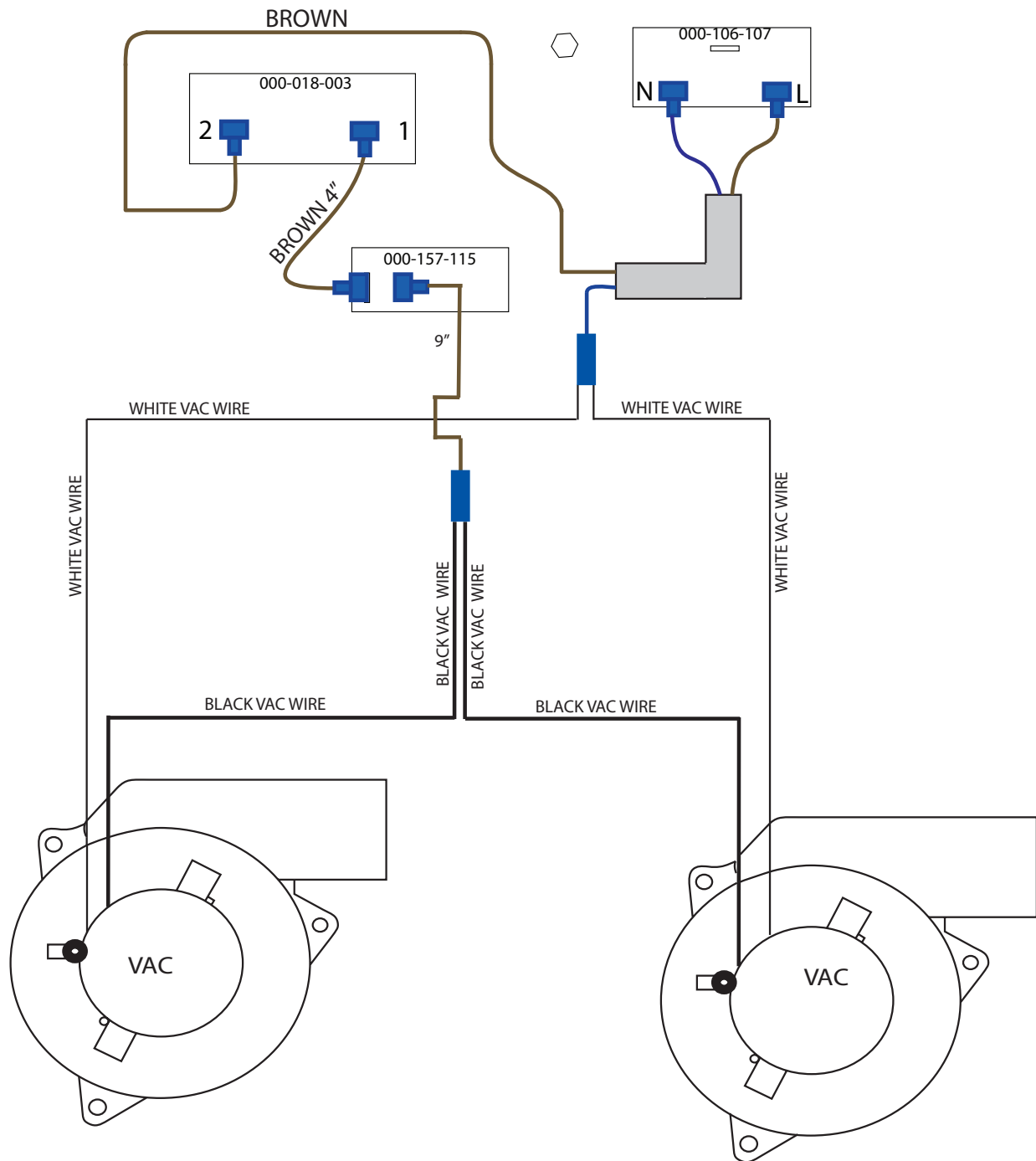


Figure 19. TreadMaster Wiring Diagram – 120 V (Ground Circuit)

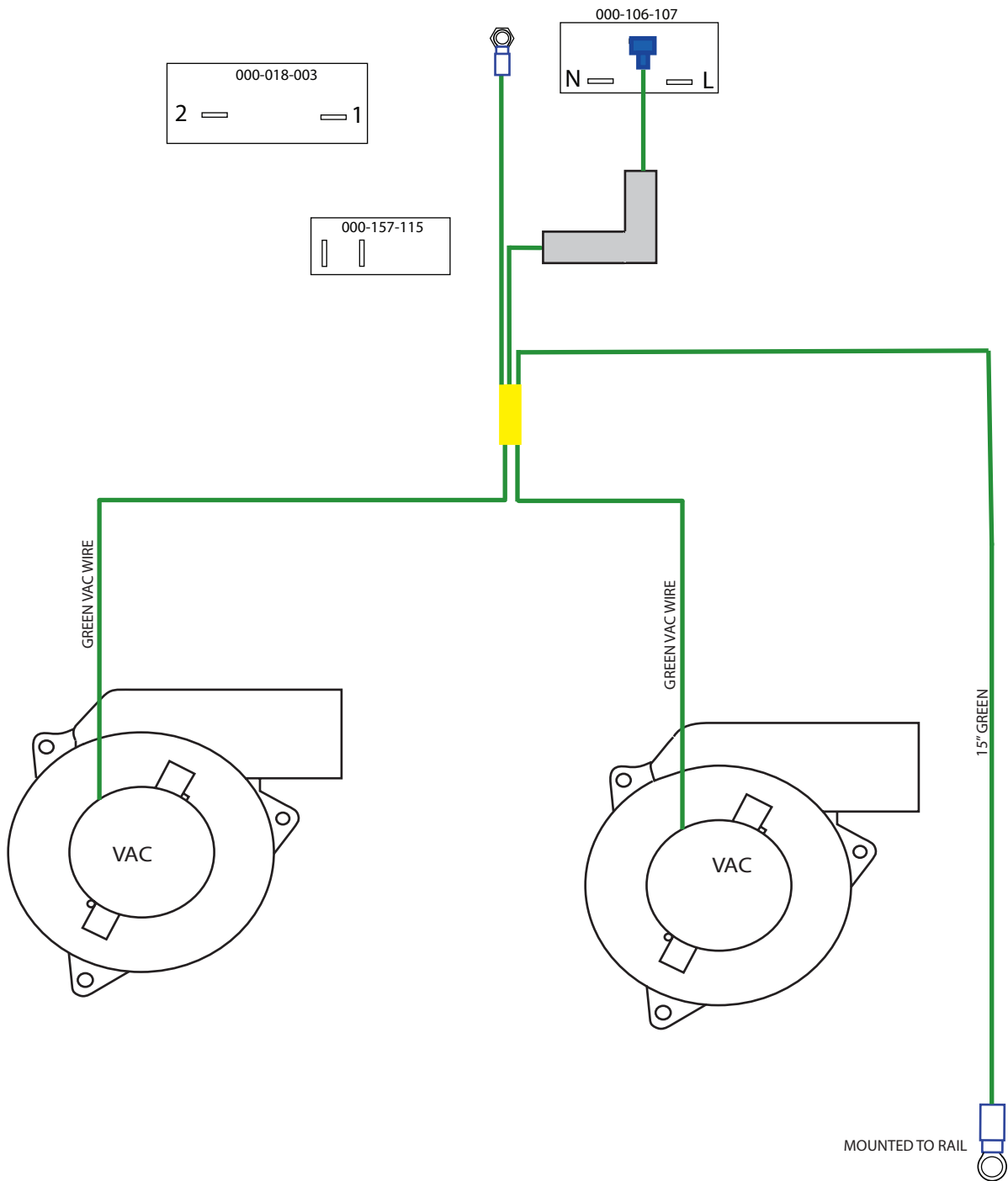


Figure 20. TreadMaster Electrical Schematic – 120 V

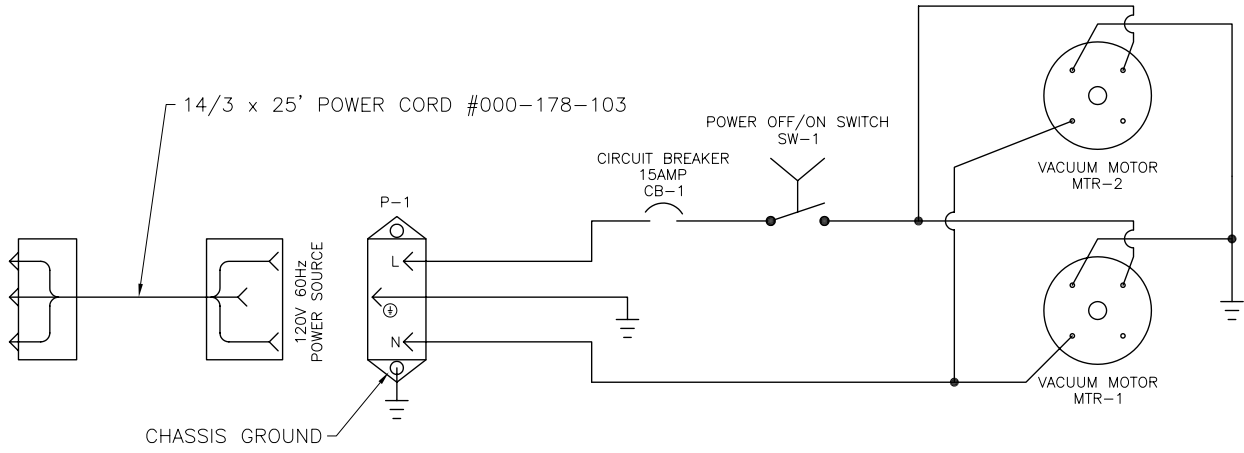


Figure 21. TreadMaster Wiring Diagram – 230 V

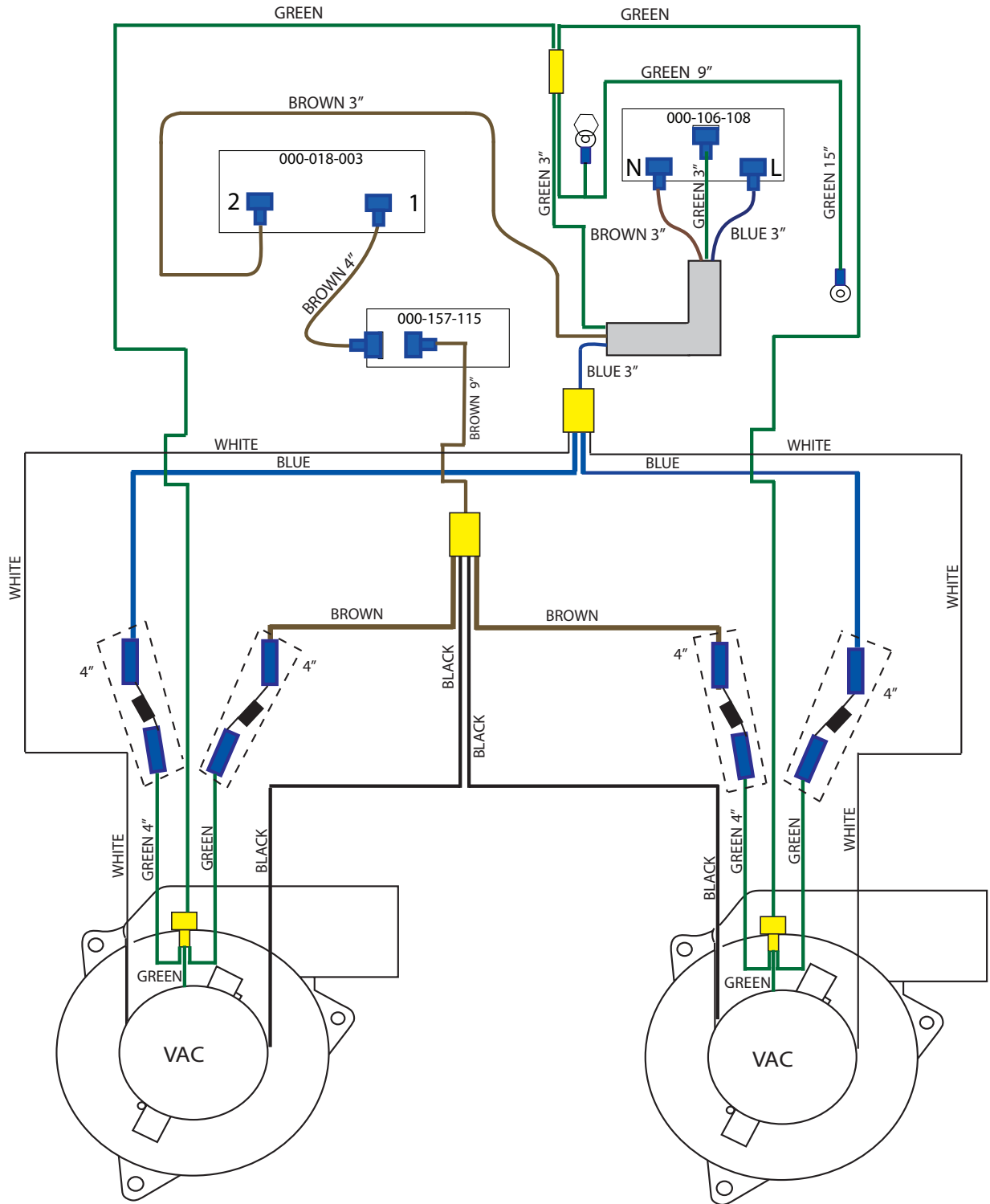
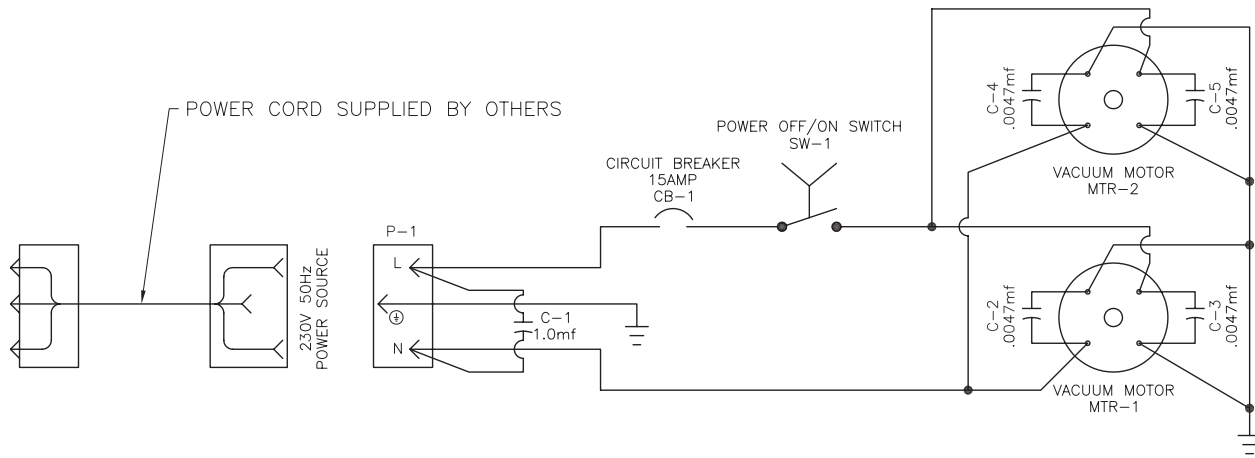


Figure 22. TreadMaster Electrical Schematic – 230 V



ASSEMBLIES AND PARTS LISTS

The following major assemblies and parts lists are detailed in this section:

- Frame Housing Assembly (120V) Parts List
- 24" Nylon Grit Head Assembly
- 32" Nylon Grit Head Assembly
- 40" Nylon Grit Head Assembly
- 22" Nylon Grit Head Assembly
- 37" Nylon Grit Head Assembly
- Left Rail and Heel Plate Assembly Parts List
- Right Rail and Heel Plate Assembly Parts List
- Left Extension Arm Assembly Parts List
- Right Extension Arm Assembly Parts List
- Lift Arm Assembly Parts List
- Escalator Cleaning Safety Sign Assembly Parts List
- Wheels and Jack Assembly Parts List
- Door Assembly Parts List
- Motor Housing Assembly Parts List
- Housing Support Assembly Parts List
- Vacuum Motor (120V) Assembly Parts List

NOTICE

See Table 1 and Table 2 for lists of top level part numbers and associated assemblies for TreadMaster configurations.

PARTS AND SUPPORT

Repairs, when required, should be performed by your authorized distributor who maintains an inventory of original replacement parts and accessories.

Table 1. TreadMaster Configurations - 120V

TreadMaster	Top Level P/N	Major Assemblies in Top Level P/N		
		P/N	Description	Qty
22" TreadMaster, 120 V	100-100-004	101-100-031	24" Soft Brush for Painted Escalators	1
		190-100-002	120 V Housing Assembly	1
		190-100-014	22" Nylon Grit Head Assembly	1
24" TreadMaster, 120 V	100-100-001	101-100-031	24" Soft Brush for Painted Escalators	1
		190-100-002	120 V Housing Assembly	1
		190-100-011	24" Nylon Grit Head Assembly	1
32" TreadMaster, 120 V	100-100-002	101-100-032	32" Soft Brush for Painted Escalators	1
		190-100-002	120 V Housing Assembly	1
		190-100-012	32" Nylon Grit Head Assembly	1
37" TreadMaster, 120 V	100-100-005	101-100-033	40" Soft Brush for Painted Escalators	1
		190-100-002	120 V Housing Assembly	1
		190-100-015	37" Nylon Grit Head Assembly	1
40" TreadMaster, 120 V	100-100-003	101-100-033	40" Soft Brush for Painted Escalators	1
		190-100-002	120 V Housing Assembly	1
		190-100-013	40" Nylon Grit Head Assembly	1

Table 2. TreadMaster Configurations - 230V

TreadMaster	Top Level P/N	Major Assemblies in Top Level P/N		
		P/N	Description	Qty
24" TreadMaster, 230 V	100-100-221	101-100-031	24" Soft Brush for Painted Escalators	1
		190-100-011	24" Nylon Grit Head Assembly	1
		190-100-201	230 V Housing Assembly	1
32" TreadMaster, 230 V	100-100-222	101-100-032	32" Soft Brush for Painted Escalators	1
		190-100-012	32" Nylon Grit Head Assembly	1
		190-100-201	230 V Housing Assembly	1
40" TreadMaster, 230 V	100-100-223	101-100-033	40" Soft Brush for Painted Escalators	1
		190-100-013	40" Nylon Grit Head Assembly	1
		190-100-201	230 V Housing Assembly	1

Some of the illustrations in this section reference sealants, thread lockers, adhesive, primer, anti-seize and lubricant specifications that are used in the construction of U.S. Products equipment.

Refer to Figure 23 to identify those substances such as A1, A2 and so forth. Equivalent products are acceptable if they meet or exceed current specifications and are approved by U.S. Products.

Adhesive Material Production Line Reference Card from ENG-45975 Rev. 0

<p>A1 Silicone RTV</p> 	<p>A2 Loctite 567</p> 	<p>A3 Loctite 545</p> 	<p>A4 Teflon Tape</p> 	<p>E1 Loctite 51252 Grease</p> 	
<p>B1 Loctite 242</p> 	<p>B2 Loctite 262</p> 	<p>B3 Loctite 266</p> 	<p>C1 Gapper</p> 	<p>D1 Loctite 7649</p> 	<p>E2 Molykote Anti-Seize</p> 
<p>B4 Loctite 222MS</p> 	<p>B5 Loctite 425</p> 	<p>E4 Super Lube</p> 		<p>E5 SKF Anti-Fret</p> 	

Figure 23. Adhesive/Sealant Material Reference

Figure 24. Frame Housing Assembly (120V) - View 1 of 2
190-100-002 Rev. C

NOTICE

See Figure 23 for adhesive/sealant information.

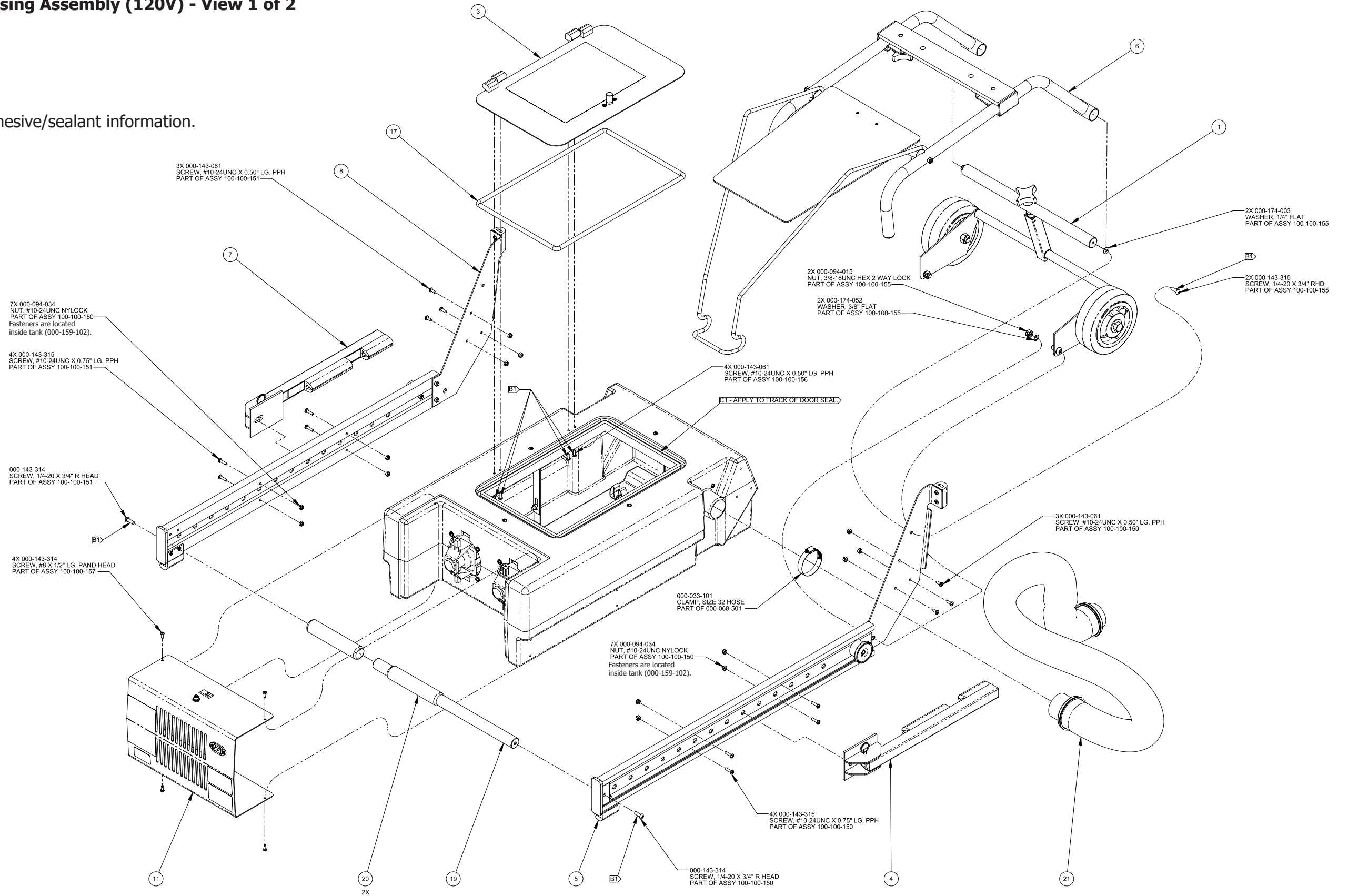
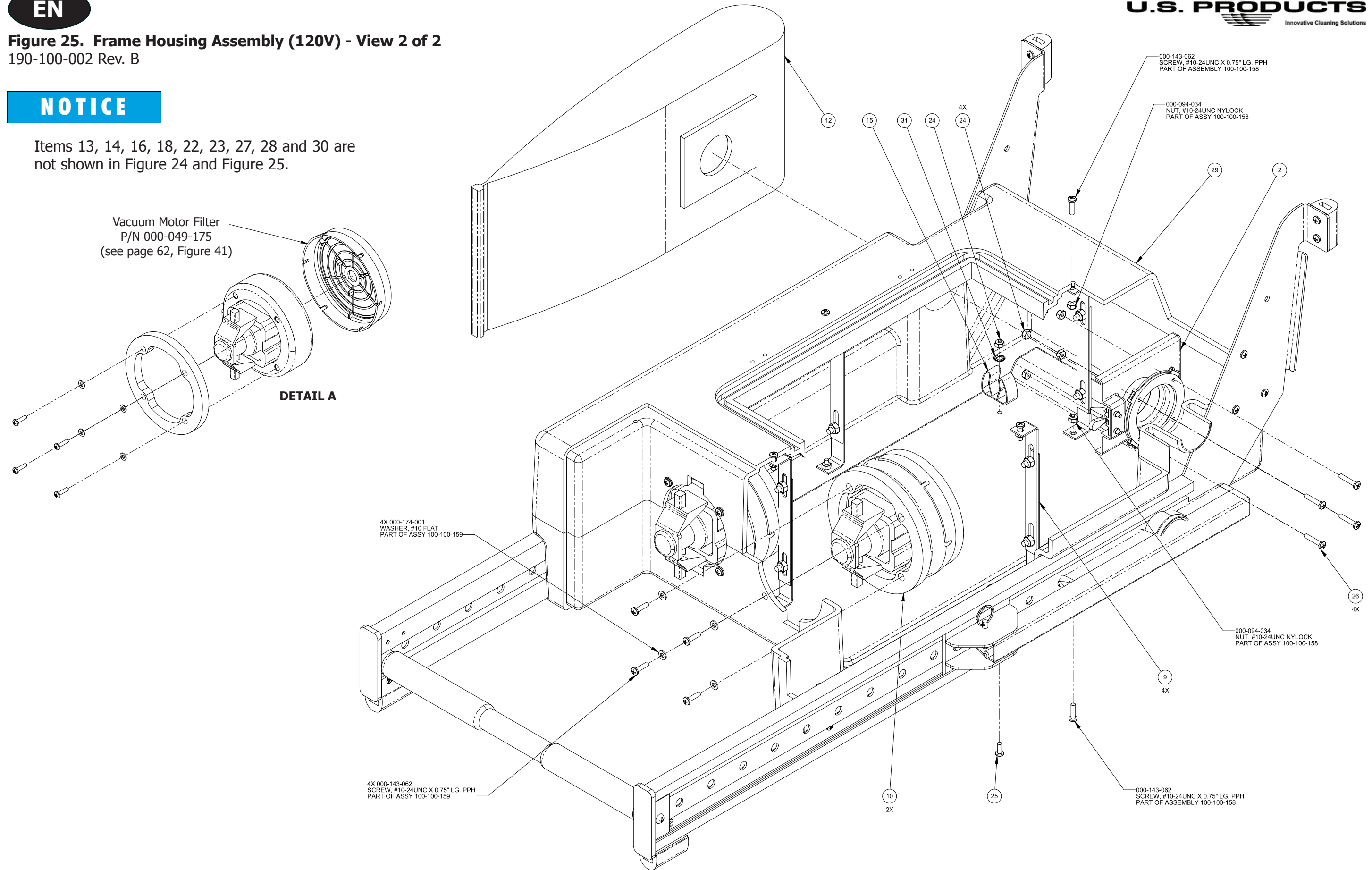


Figure 25. Frame Housing Assembly (120V) - View 2 of 2
190-100-002 Rev. B

NOTICE

Items 13, 14, 16, 18, 22, 23, 27, 28 and 30 are not shown in Figure 24 and Figure 25.



Frame Housing Assembly (120V) Parts List

Item	Part Number	Description	Qty	Item	Part Number	Description	Qty
1	100-100-155	Assembly, Wheels and Jack	1	18	000-016-060	Brush, Escalator Riser	1
2	000-001-010	Assembly, Bag Holder	1	19	000-055-121	Frame, Cross Bar - Clear Anodized	1
3	100-100-156	Assembly, Door	1	20	000-061-001	Handle, Foam Grip - 6 Inch Open End, 0840" Id	2
4	100-100-152	Assembly, Left - Extension Arm	1	21	000-068-501	Hose, 2 1/2" Vacuum X 5' Lg.	1
5	100-100-150	Assembly, Left - Rail and Heel Plate	1	22	000-081-350	Label Set, TreadMaster	1
6	100-100-154	Assembly, Lift Arm	1	23	000-182-100D	Manual, TreadMaster Guide - Digital	1
7	100-100-153	Assembly, Right - Extension Arm	1	24	000-094-034	Nut, #10-24UNC Nylock	5
8	100-100-151	Assembly, Right - Rail and Heel Plate	1	25	000-143-061	Screw, #10-24 UNC X 0.50" Lg. PPH	1
9	100-100-158	Assembly, Tank Support	4	26	000-143-536	Screw, #10-24 UNC X 1" Lg. PPH	4
10	100-100-159	Assembly, Vacuum Motor	2	27	000-014-087	Spacer Foam Stick 2-Per	1
11	100-100-157	Assembly, Vacuum Motor - Housing	1	28	000-154-192	Spacer, 2 Foam	2
12	000-049-115	Bag, Vacuum	1	29	000-159-102	Tank, TreadMaster - Modified	1
13	000-014-086	Box, Tank Unit Bottom	1	30	000-163-101	Tool, Vacuum Crevice	1
14	000-014-085	Box, Tank Unit Top	1	31	000-174-039	Washer, 1/4" Outside Star	1
15	000-033-066	Clamp, 3/4" Spring	1	32	000-178-126	Wire 18 XLP Blue Bulk	4.6 ft
16	000-178-103	Cord, 14/3 X 25 ft Long - Gray	1	33	000-178-125	Wire 18 XLP Brown Bulk	3 ft
17	000-131-019	Cord, Round, Closed Cell 3/8" CCNS	1	34	000-178-127	Wire 18 XLP Yellow/Green Bulk	4.6 ft

NOTICE

Items 13, 14, 16, 18, 22, 23, 27, 28 and 30 are not shown in Figure 24 and Figure 25.

The parts list on this page is for the 120V housing assembly only: 190-100-002.

The part number for the 230V Housing Assembly is 190-100-201.

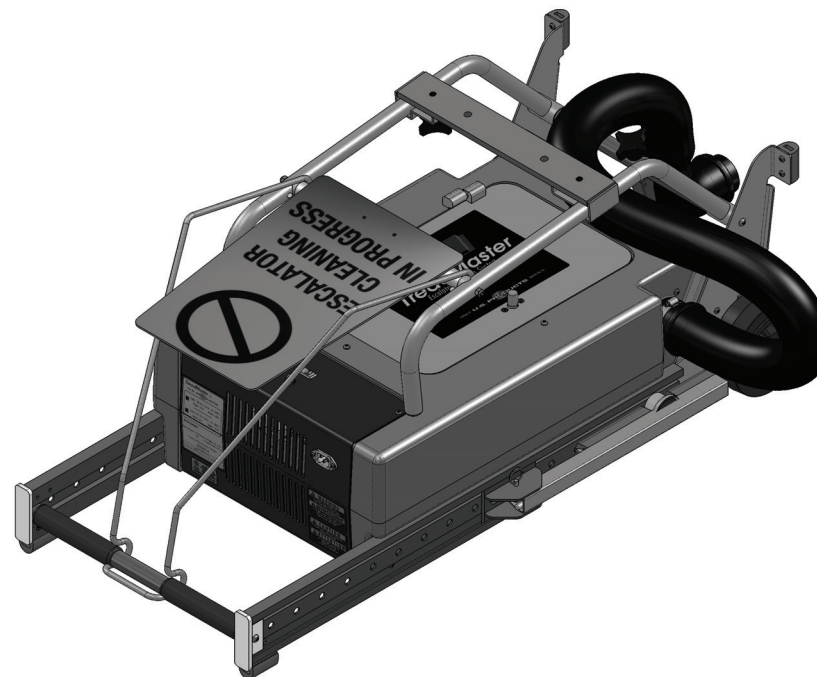
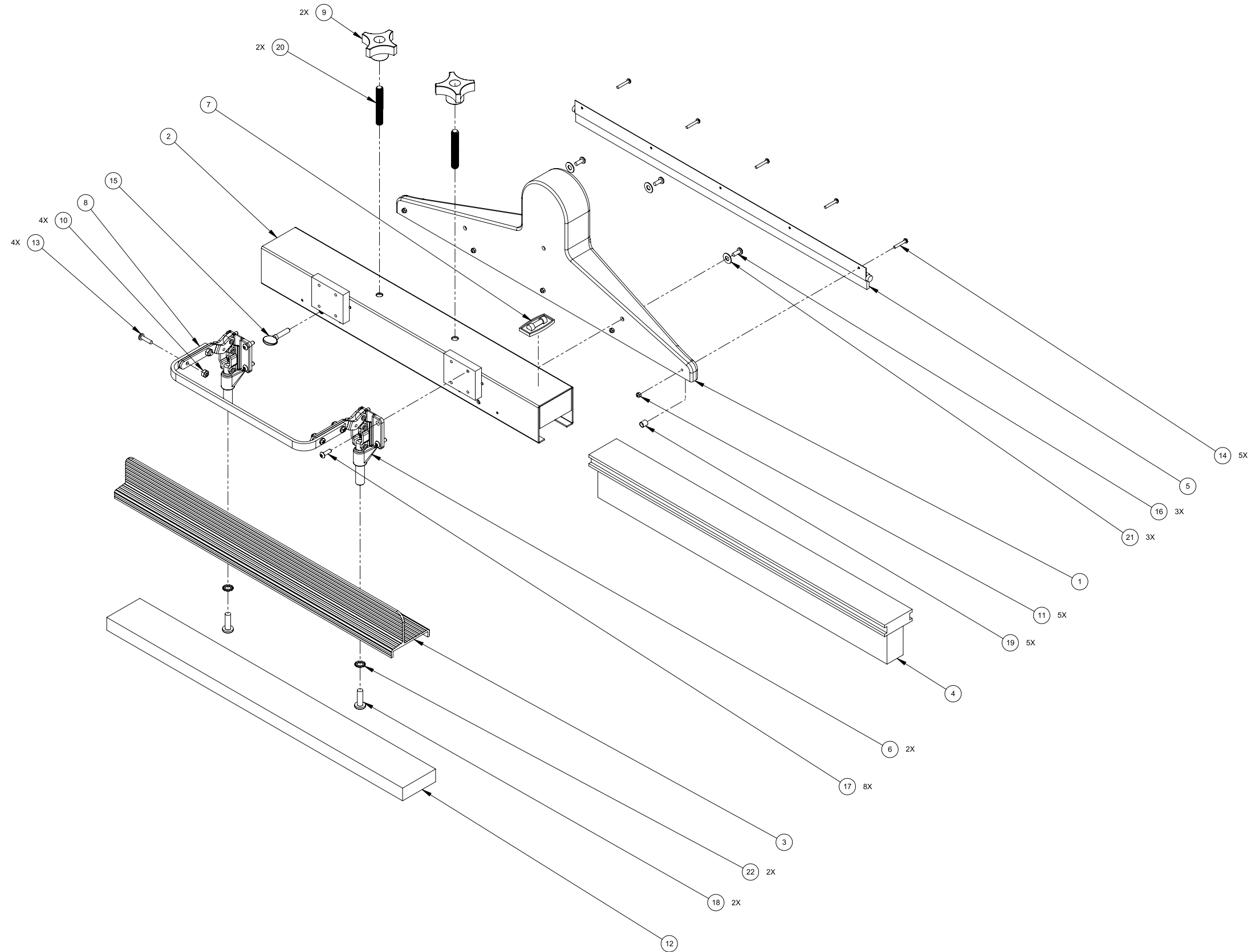


Figure 26. 24" Nylon Grit Head Assembly
190-100-011 Rev. A



24" Nylon Grit Head Assembly

Item	Part Number	Description	Qty
1	105-100-018	Assembly Vac Nozzle - 24"	1
2	000-015-310	Bracket 24" Tread Brush Mount-Coated	1
3	000-015-316	Bracket, 22" Polish Pad Mounting Extrusion - Coated	1
4	101-100-028	Brush Nylo-Grit-23.50"	1
5	000-016-065	Brush Vacuum-23.5"	1
6	000-033-102	Clamp, Polish Pad Release - Modified	2
7	000-074-022	Gauge, Spirit Level	1
8	000-061-104	Handle, Pad Holder Lift Arm - Coated	1
9	000-061-102	Knob, 4/Flute Black-3/8"16	2
10	000-094-034	Nut, #10-24UNC Nylock	4
11	000-094-063	Nut, #6-32UNC Nylock	5

Item	Part Number	Description	Qty
12	000-016-086	Polishing Pad-Black	1
13	000-143-062	Screw, #10-24UNC X 0.75" Lg. PPH	4
14	000-143-047	Screw, #6-32 UNC X .875" Lg. PH Phillips	5
15	000-143-173	Screw, 1/4-20 Spade Head Thumb	1
16	000-143-112	Screw, 10-24 X 1/2" Self Tapping PH Phillips	3
17	000-143-128	Screw, 10-24 X 5/8" Btn Hd Cap	8
18	000-143-161	Screw, 5/16-18 X 1" PNHDS Phillips	2
19	000-154-001	Spacer, 1/4" X 5/16" - S/S Solution Valve	5
20	000-156-019	Stud 3/8-16 X 2 1/2"	2
21	000-174-003	Washer, 1/4" Flat	3
22	000-174-059	Washer,5/16" S/S External Star	2

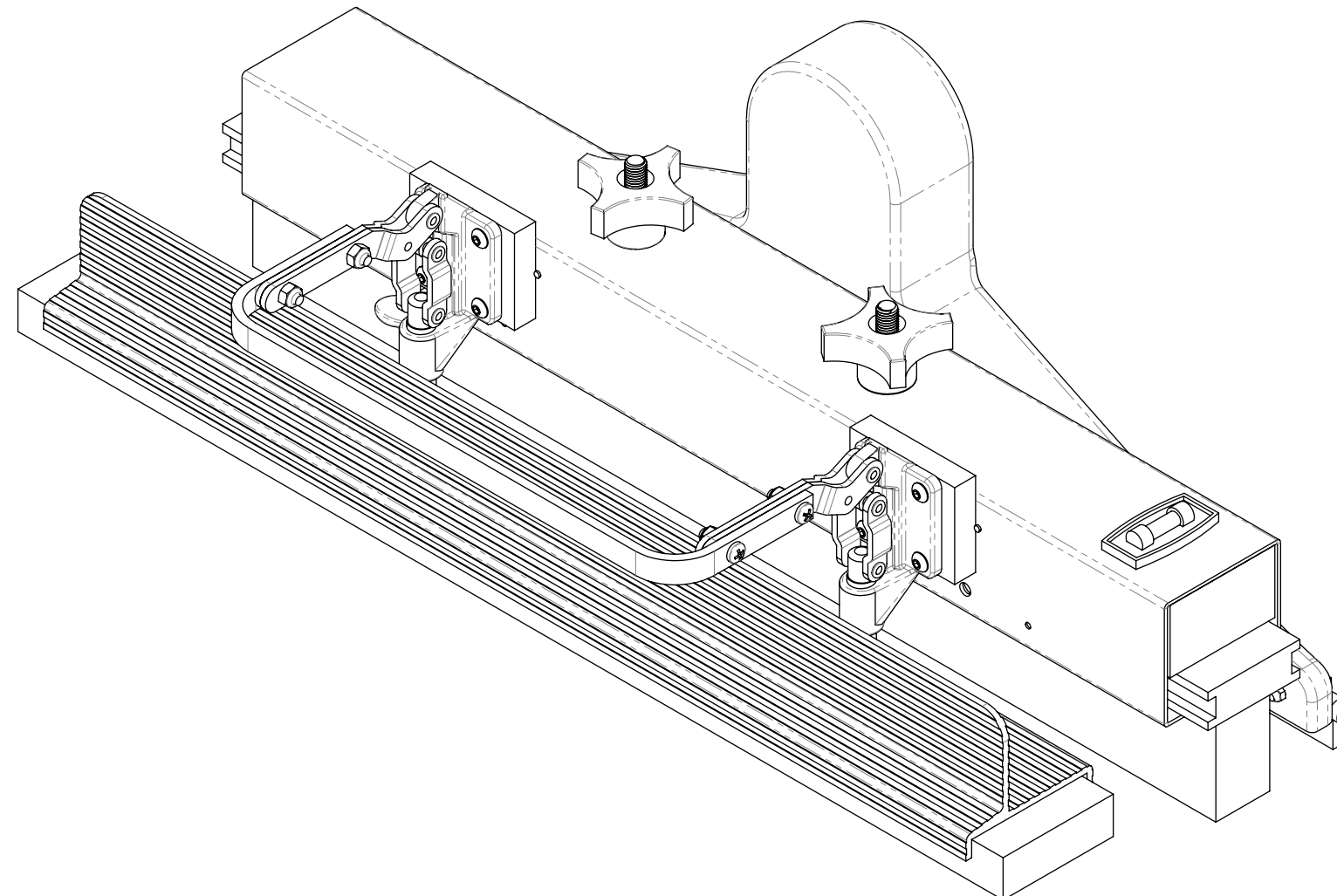
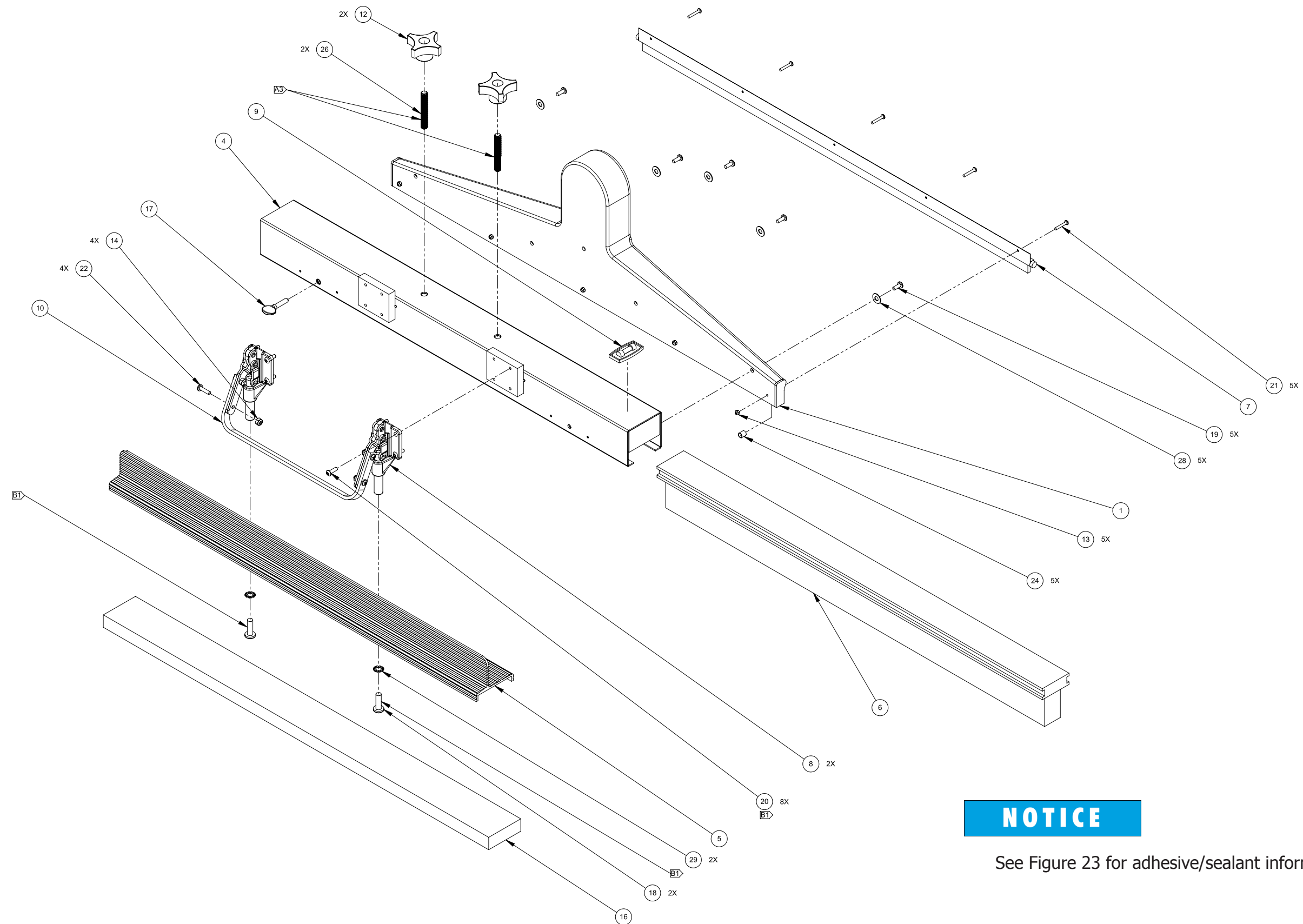


Figure 27. 32" Nylon Grit Head Assembly
190-100-012 Rev. B



NOTICE

See Figure 23 for adhesive/sealant information.

32" Nylon Grit Head Assembly

Item	Part Number	Description	Qty
1	105-100-019	Assembly Vacuum Nozzle-32"	1
2	000-014-081	Box, Bottom Outer Head Carton	1
3	000-014-080	Box, Top Outer Head Carton	1
4	000-015-311	Bracket 32" Tread Brush Mount-Coated	1
5	000-015-317	Bracket, 30" Polish Pad Mounting Extrusion - Coated	1
6	101-100-029	Brush Nylo-Grit-31.50"	1
7	000-016-066	Brush Vacuum-32"	1
8	000-033-104	Clamp, Polish Pad Release - Modified	2
9	000-074-022	Gauge,Spirit Level-TreadMaster	1
10	000-061-104	Handle, Pad Holder Lift Arm - Coated	1
11	000-014-082	Insert Foam Head Support End	1
12	000-061-102	Knob,4/Flute Black-3/8"16	2
13	000-094-063	Nut, #6-32UNC Nylock	5
14	000-094-034	Nut, #10-24UNC Nylock	4
15	000-014-083	Pad, Foam Brush Stabilizer	1

Item	Part Number	Description	Qty
16	000-016-088	Polishing Pad-Black - 32"	1
17	000-143-173	Screw, 1/4-20 Spade Head Thumb	1
18	000-143-161	Screw,5/16-18 X 1" PNHDS Phillips	2
19	000-143-112	Screw,10-24 X 1/2" Self Tapping PH Phillips	5
20	000-143-128	Screw,10-24 X 5/8" Btn Hd Cap	8
21	000-143-047	Screw, #6-32 UNC X .875" Lg. PH Phillips	5
22	000-143-062	Screw, #10-24 UNC X 0.75" Lg. PPH	4
23	000-154-192	Spacer 2 Foam	2
24	000-154-001	Spacer, 1/4" X 5/16" - S/S Solution Valve	5
25	000-014-084	Spacer, Foam for Under Head	2
26	000-156-019	Stud 3/8-16 X 2 1/2"	2
27	000-131-118	Velcro Strip	5Ft
28	000-174-003	Washer, 1/4" Flat	5
29	000-174-059	Washer, 5/16" S/S External Star	2

NOTICE

Items 2, 3, 11, 15, 23 and 25 are not shown in Figure 27.

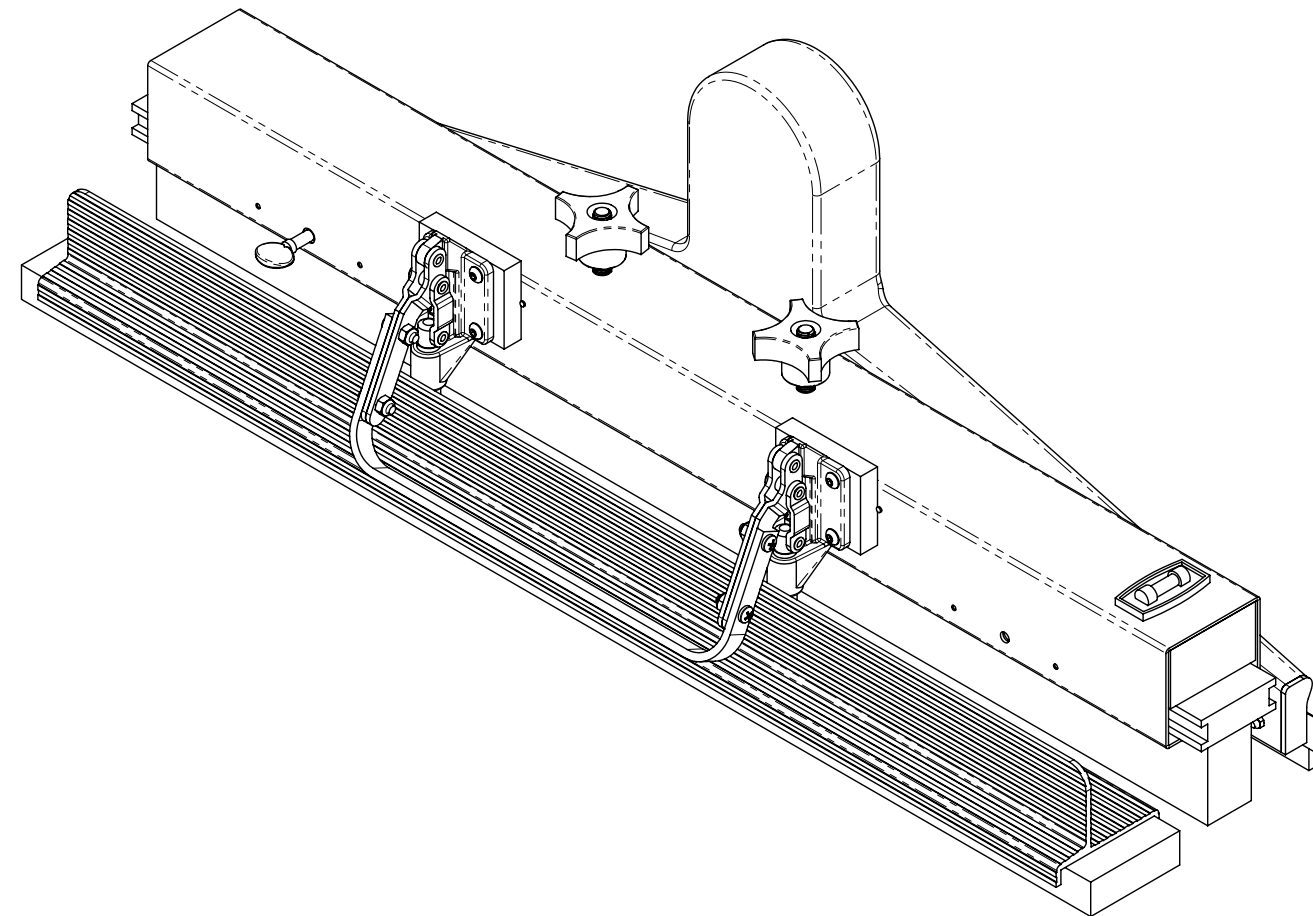
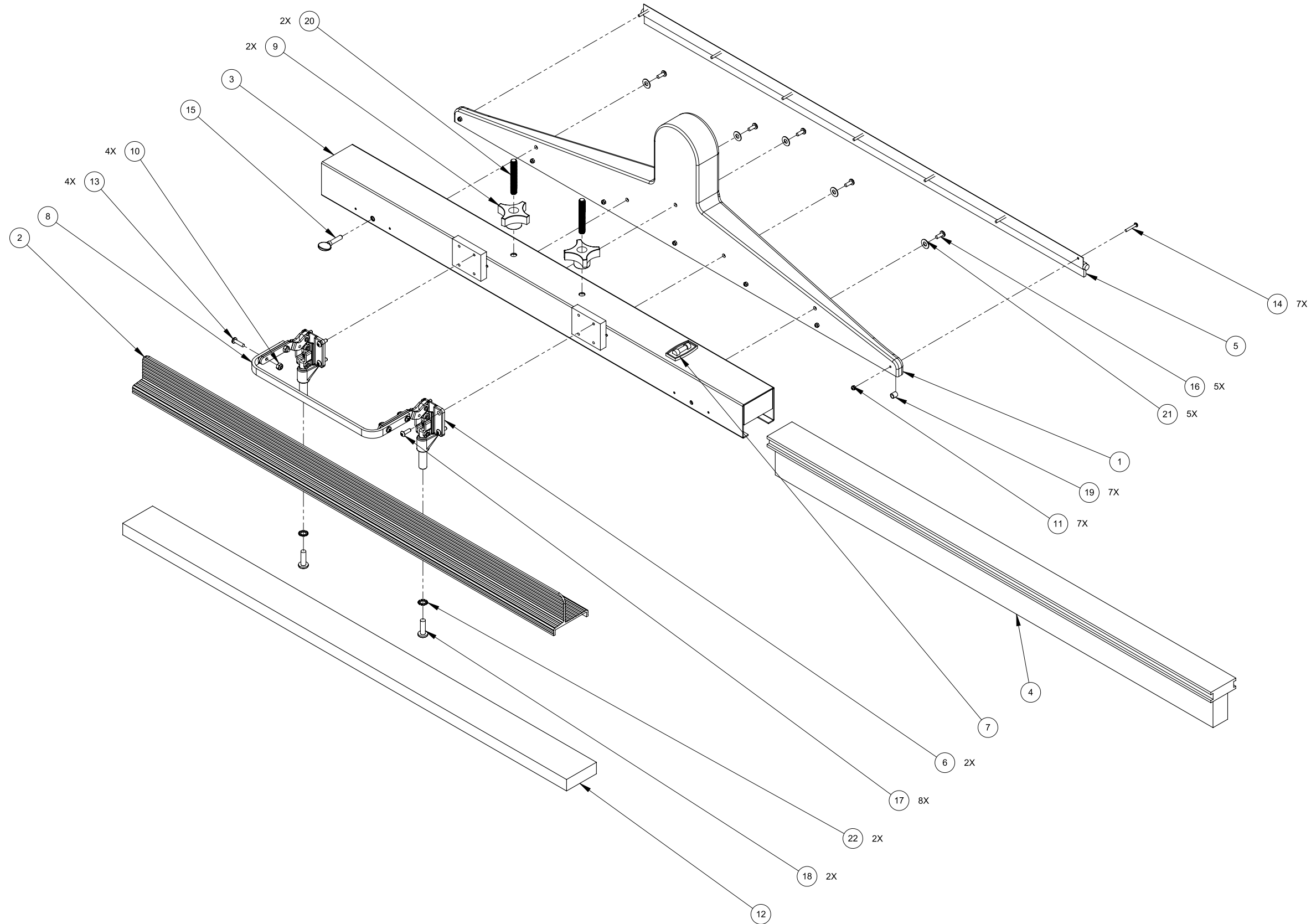


Figure 28. 40" Nylon Grit Head Assembly
190-100-013 Rev. A



40" Nylon Grit Head Assembly

Item	Part Number	Description	Qty
1	105-100-020	Assembly Vacuum Nozzle-40"	1
2	000-015-318	Bracket, 37" Polish Pad Mounting Extrusion - Coated	1
3	000-015-312	Bracket 40" Tread Brush Mount-Coated	1
4	101-100-030	Brush Nylo-Grit-39"	1
5	000-016-067	Brush Vacuum-39"	1
6	000-033-102	Clamp, Polish Pad Release - Modified	2
7	000-074-022	Gauge, Spirit Level-TreadMaster	1
8	000-061-104	Handle, Pad Holder Lift Arm - Coated	1
9	000-061-102	Knob,4/Flute Black-3/8"16	2
10	000-094-034	Nut, #10-24UNC Nylock	4
11	000-094-063	Nut, #6-32UNC Nylock	7

Item	Part Number	Description	Qty
12	000-016-090	Polishing Pad-Black	1
13	000-143-062	Screw, #10-24UNC X 0.75" Lg. PH Phillips	4
14	000-143-047	Screw, #6-32 UNC X .875" Lg. PH Phillips	7
15	000-143-173	Screw, 1/4-20 Spade Head Thumb	1
16	000-143-112	Screw, 10-24 X 1/2" Self Tapping PH Phillips	5
17	000-143-128	Screw, 10-24 X 5/8" Btn Hd Cap	8
18	000-143-161	Screw, 5/16-18 X 1" PH Phillips	2
19	000-154-001	Spacer, 1/4" X 5/16" - S/S Solution Valve	7
20	000-156-019	Stud 3/8-16 X 2 1/2"	2
21	000-174-003	Washer, 1/4" Flat	5
22	000-174-059	Washer,5/16" S/S External Star	2

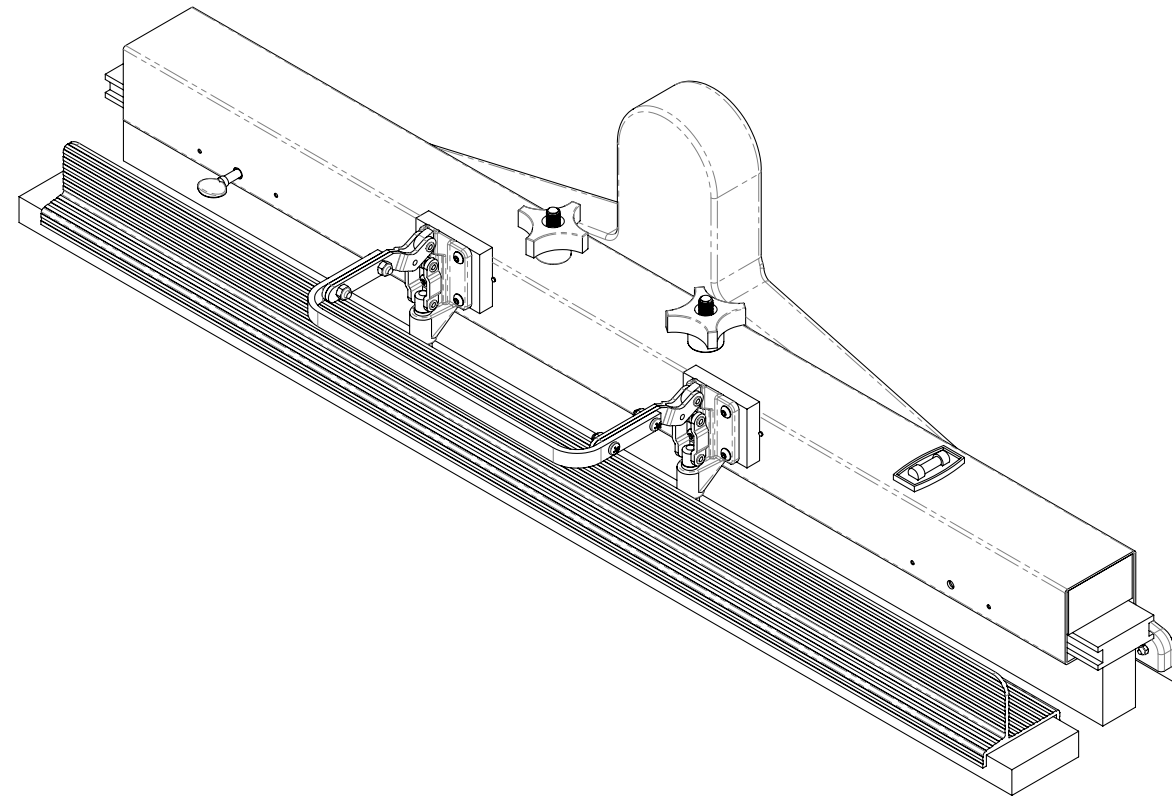
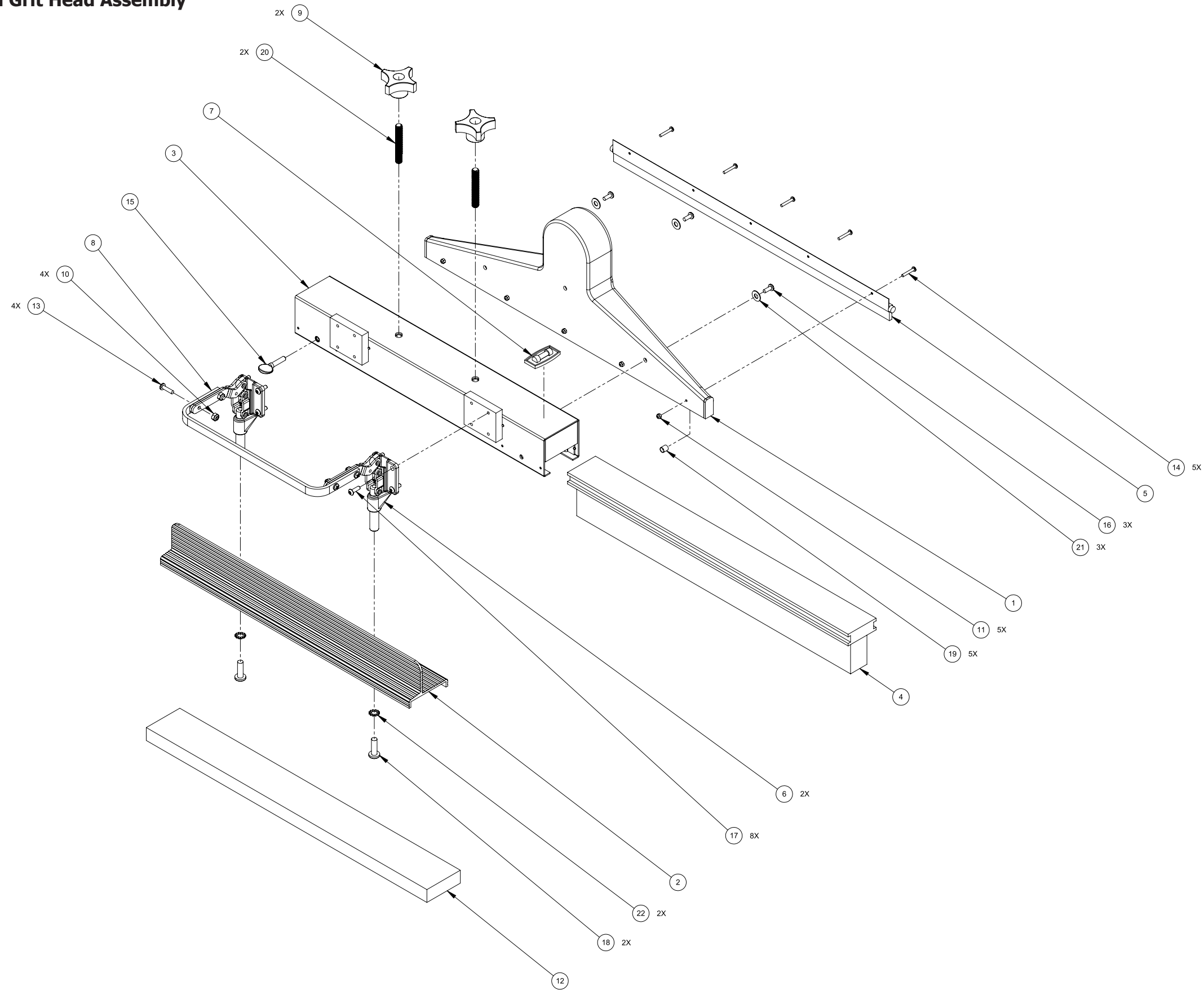


Figure 29. 22" Nylon Grit Head Assembly
190-100-014 Rev. A



22" Nylon Grit Head Assembly

Item	Part Number	Description	Qty
1	105-100-024	Assembly Vac Nozzle-22"	1
2	000-015-331	Bracket, 19.5" Polish Pad Mounting Extrusion - Coated	1
3	000-015-332	Bracket 22" Tread Brush Mount-Coated	1
4	101-100-035	Brush Nylo-Grit-19.5"	1
5	000-016-081	Brush Vacuum-22"	1
6	000-033-102	Clamp, Polish Pad Release - Modified	2
7	000-074-022	Gauge,Spirit Level-TreadMaster	1
8	000-061-104	Handle, Pad Holder Lift Arm - Coated	1
9	000-061-102	Knob, 4/Flute Black-3/8"16	2
10	000-094-034	Nut, #10-24UNC Nylock	4
11	000-094-063	Nut, #6-32UNC Nylock	5

Item	Part Number	Description	Qty
12	000-016-085	Polishing Pad-Black	1
13	000-143-062	Screw, #10-24 UNC . X 0.75" Lg. PH Phillips	4
14	000-143-047	Screw, #6-32 UNC X .875" Lg. PH Phillips	5
15	000-143-173	Screw, 1/4-20 Spade Head Thumb	1
16	000-143-112	Screw, 10-24 X 1/2" Self Tapping PH Phillips	3
17	000-143-128	Screw, 10-24 X 5/8" Btn Hd Cap	8
18	000-143-161	Screw, 5/16-18 X 1" PH Phillips	2
19	000-154-001	Spacer, 1/4" X 5/16" - S/S Solution Valve	5
20	000-156-019	Stud 3/8-16 X 2 1/2"	2
21	000-174-003	Washer, 1/4" Flat	3
22	000-174-059	Washer,5 /16" S/S External Star	2

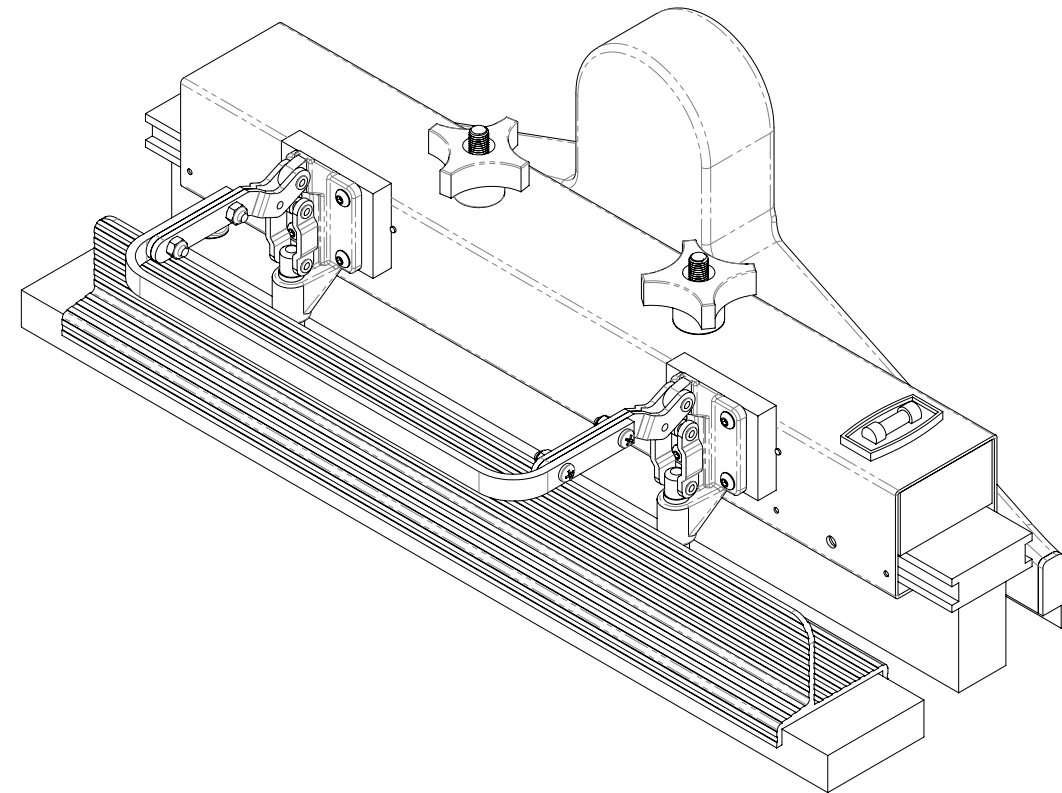
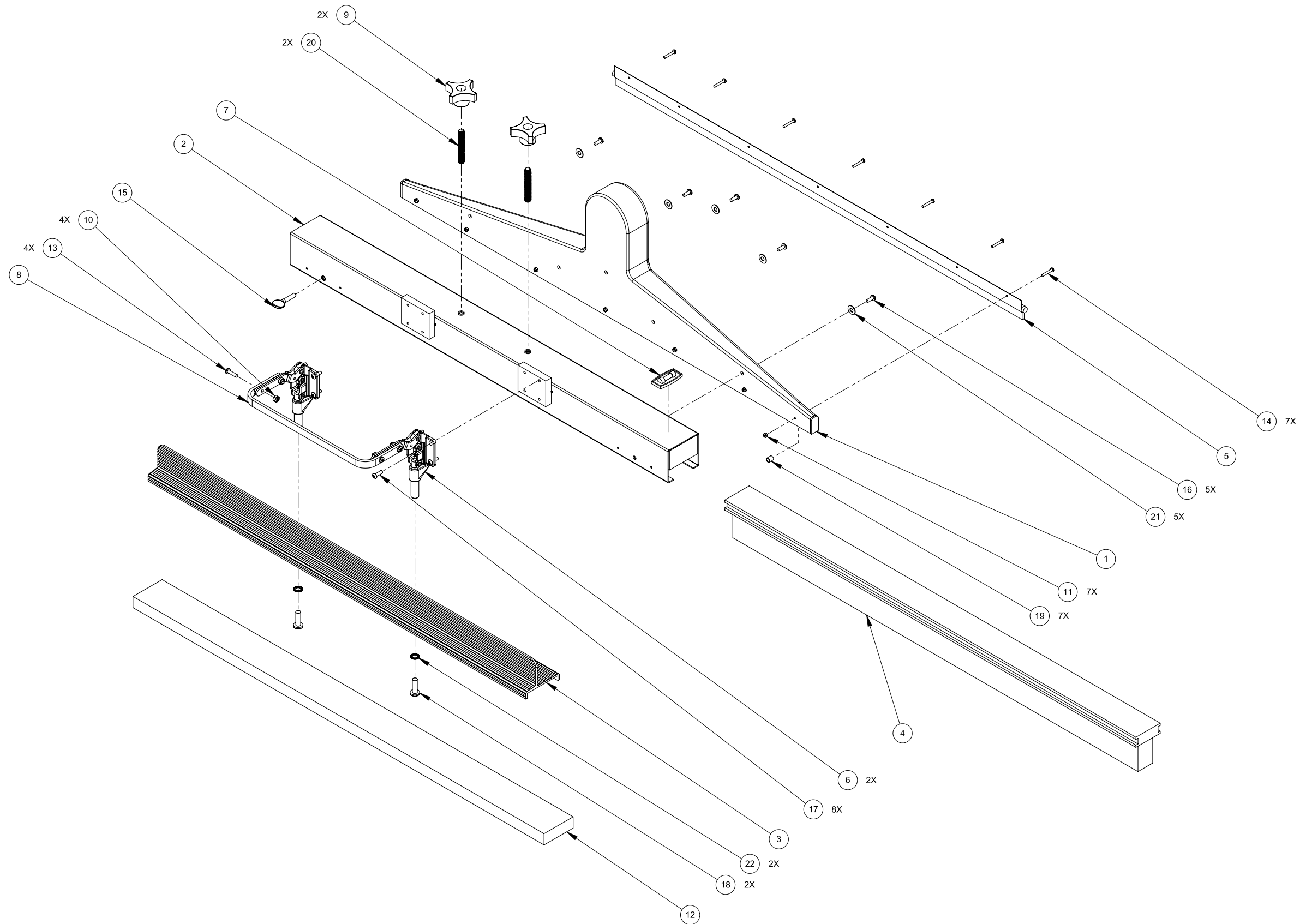


Figure 30. 37" Nylon Grit Head Assembly
190-100-015 Rev. A



37" Nylon Grit Head Assembly

Item	Part Number	Description	Qty
1	105-100-022	Assembly Vacuum Nozzle-37"	1
2	000-015-351	Bracket 37" Tread Brush Mount-Coated	1
3	000-015-340	Bracket, 34" Polish Pad Mounting Extrusion - Coated	1
4	101-100-037	Brush Nylo-Grit-19.5"	1
5	000-016-083	Brush Vacuum-37"	1
6	000-033-102	Clamp, Polish Pad Release - Modified	2
7	000-074-022	Gauge,Spirit Level-TreadMaster	1
8	000-061-104	Handle, Pad Holder Lift Arm - Coated	1
9	000-061-102	Knob,4/Flute Black-3/8"16	2
10	000-094-034	Nut, #10-24UNC Nylock	4
11	000-094-063	Nut, #6-32UNC Nylock	7

Item	Part Number	Description	Qty
12	000-016-089	Polishing Pad-Black	1
13	000-143-062	Screw, #10-24 UNC X 0.75" Lg. PH Phillips	4
14	000-143-047	Screw, #6-32 UNC X .875" Lg. PH Phillips	7
15	000-143-173	Screw, 1/4-20 Spade Head Thumb	1
16	000-143-112	Screw, 10-24 X 1/2" Self Tapping PH Phillips	5
17	000-143-128	Screw, 10-24 X 5/8" Btn Hd Cap	8
18	000-143-161	Screw,5/16-18 X 1" PH Phillips	2
19	000-154-001	Spacer, 1/4" X 5/16" - S/S Solution Valve	7
20	000-156-019	Stud 3/8-16 X 2 1/2"	2
21	000-174-003	Washer, 1/4" Flat	5
22	000-174-059	Washer, 5/16" S/S External Star	2

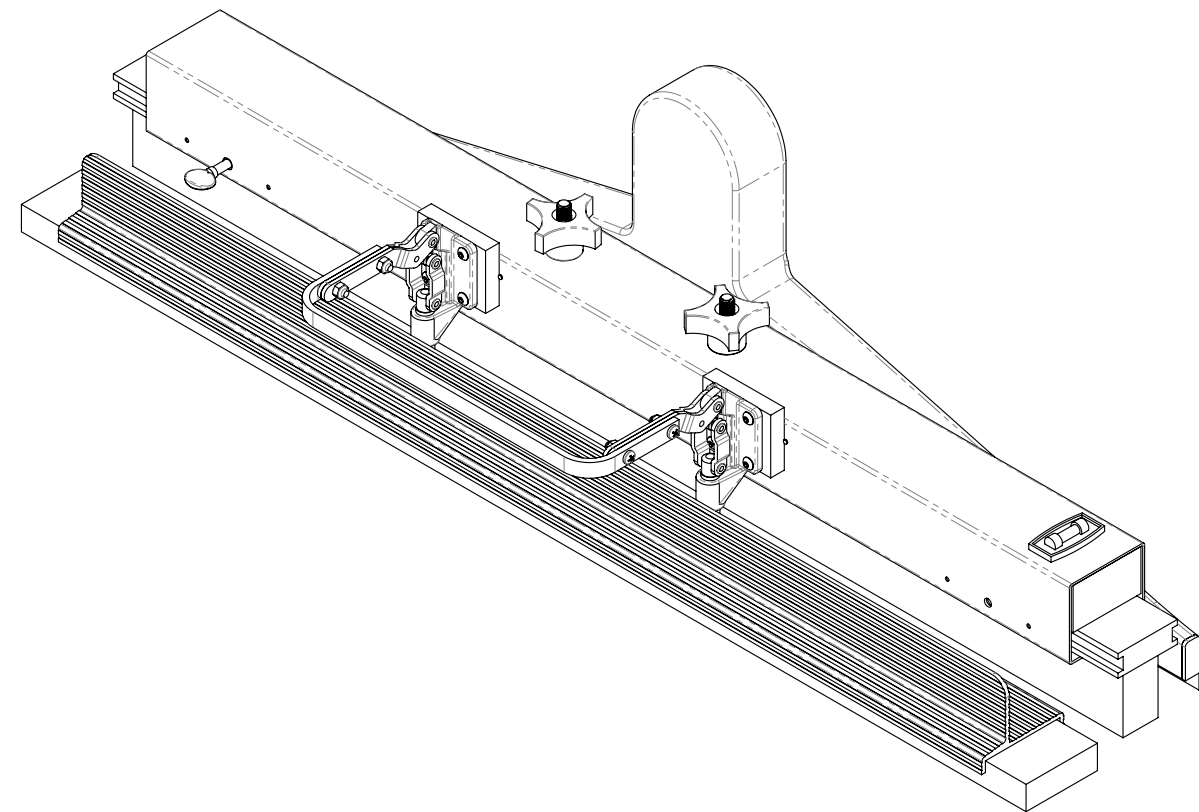
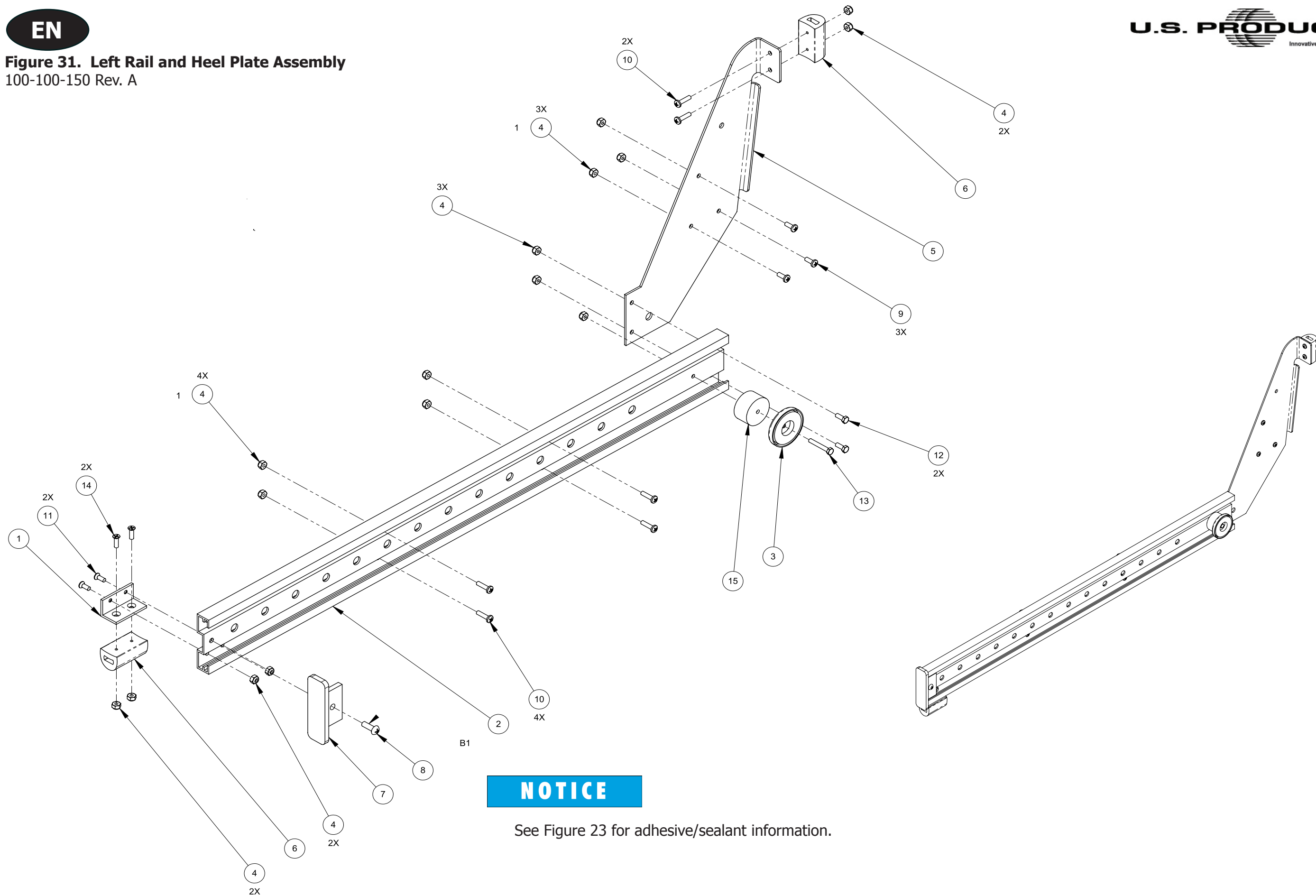


Figure 31. Left Rail and Heel Plate Assembly
100-100-150 Rev. A

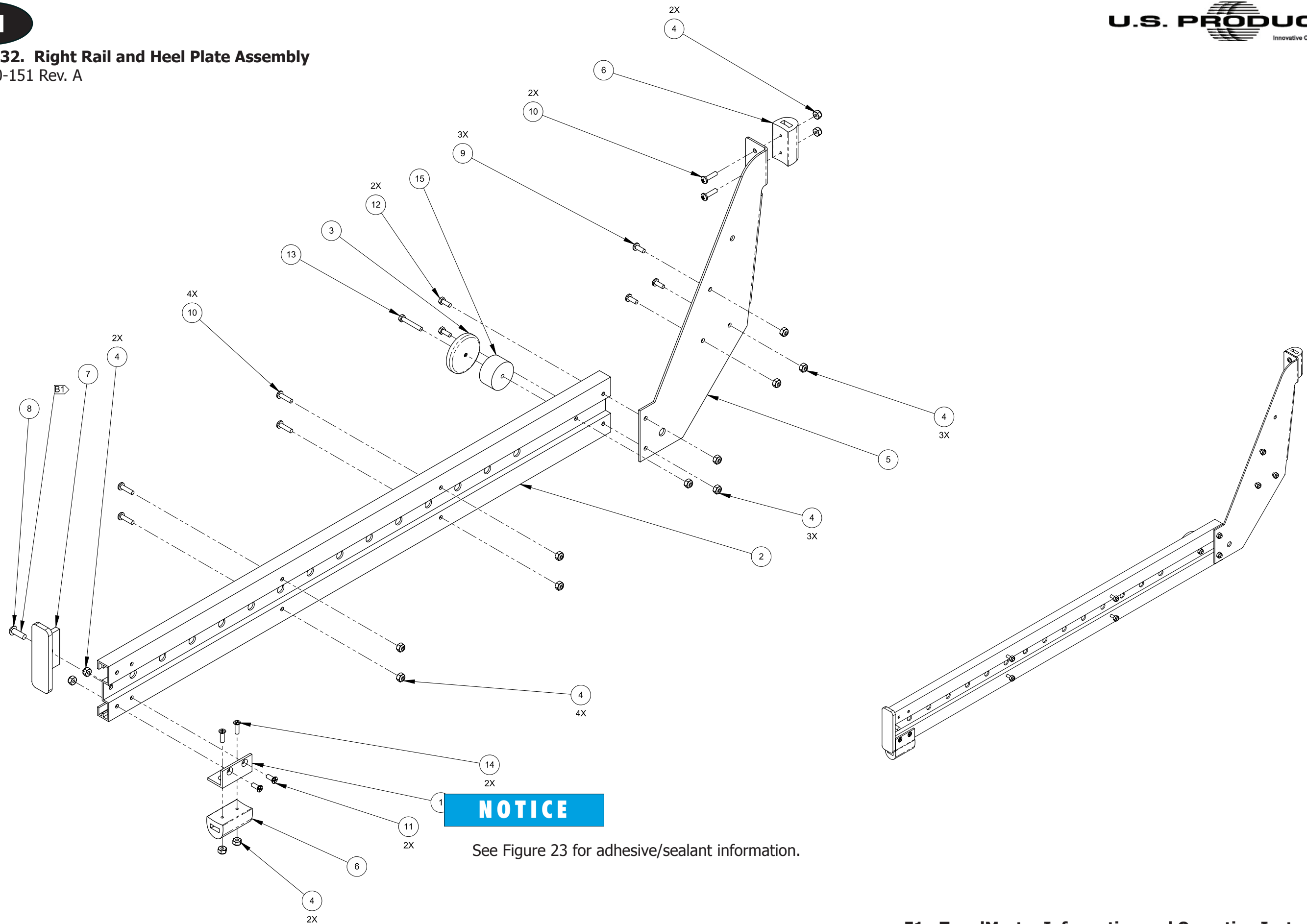


Left Rail and Heel Plate Assembly Parts List

Item	Part Number	Description	Qty
1	000-015-323	Bracket Bumper End Support - Fabricated	1
2	000-055-120	Frame, Rail - Extruded - Coated	1
3	000-089-003	Magnet, TreadMaster	1
4	000-094-034	Nut, #10-24UNC Nylock	16
5	000-105-162	Plate, Heel, Left - Coated	1
6	000-108-103	Protector, Heel Pad	2
7	000-108-063	Protector, Plastic Bumper End	1
8	000-143-315	Screw, 1/4-20 X 3/4" R Hd	1

Item	Part Number	Description	Qty
9	000-143-061	Screw, #10-24 UNC X 0.50" Lg. PPH	3
10	000-143-062	Screw, #10-24 UNC X 0.75" Lg. PPH	6
11	000-143-114	Screw, #10-24UNC X 0.50" Lg. Flat Head Phillips	2
12	000-143-126	Screw, #10-24UNC X 0.50" Lg. Hex Head	2
13	000-143-171	Screw, #10-24UNC X 1.25" Lg. Hex Head	1
14	000-143-110	Screw, #10-24UNC X 5/8" Lg. Flat Head	2
15	000-154-104	Spacer, Restraining Arm Magnet	1

Figure 32. Right Rail and Heel Plate Assembly
100-100-151 Rev. A

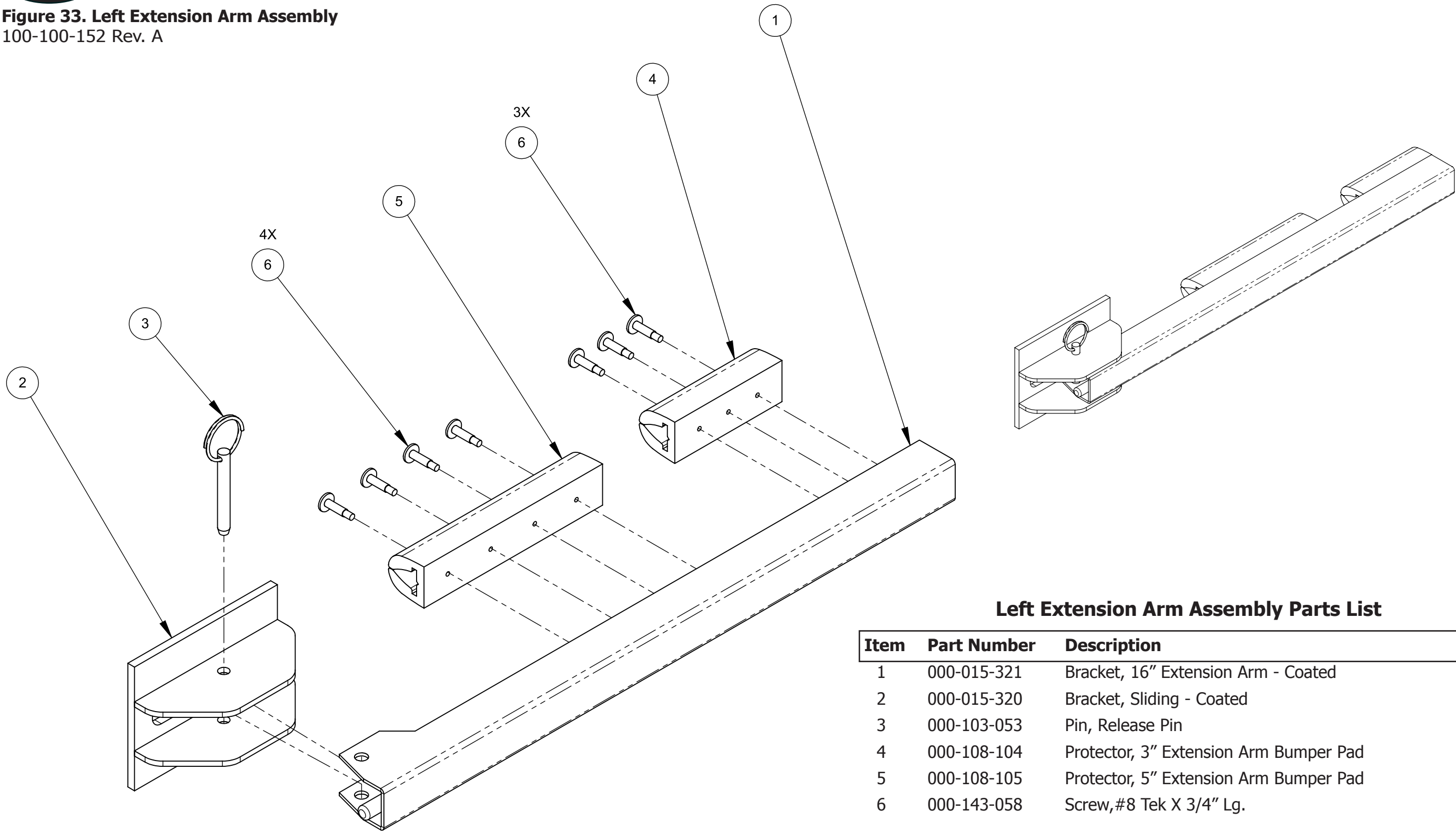


Right Rail and Heel Plate Assembly Parts List

Item	Part Number	Description	Qty
1	000-015-323	Bracket Bumper End Support - Fabricated	1
2	000-055-120	Frame, Rail - Extruded - Coated	1
3	000-089-003	Magnet, TreadMaster	1
4	000-094-034	Nut, #10-24UNC Nylock	16
5	000-105-161	Plate, Heel, Right - Coated	1
6	000-108-103	Protector, Heel Pad	2
7	000-108-063	Protector, Plastic Bumper End	1
8	000-143-315	Screw, 1/4-20 X 3/4" R Hd	1
9	000-143-061	Screw, #10-24 UNC X 0.50" Lg. PPH	3

Item	Part Number	Description	Qty
10	000-143-062	Screw, #10-24 UNC X 0.75" Lg. PPH	6
11	000-143-114	Screw, #10-24UNC X 0.50" Lg. Flat Head Phillips	2
12	000-143-126	Screw, #10-24UNC X 0.50" Lg. Hex Head	2
13	000-143-171	Screw, #10-24UNC X 1.25" Lg. Hex Head	1
14	000-143-110	Screw, #10-24UNC X 5/8" Lg. Flat Head	2
15	000-154-104	Spacer, Restraining Arm Magnet	1

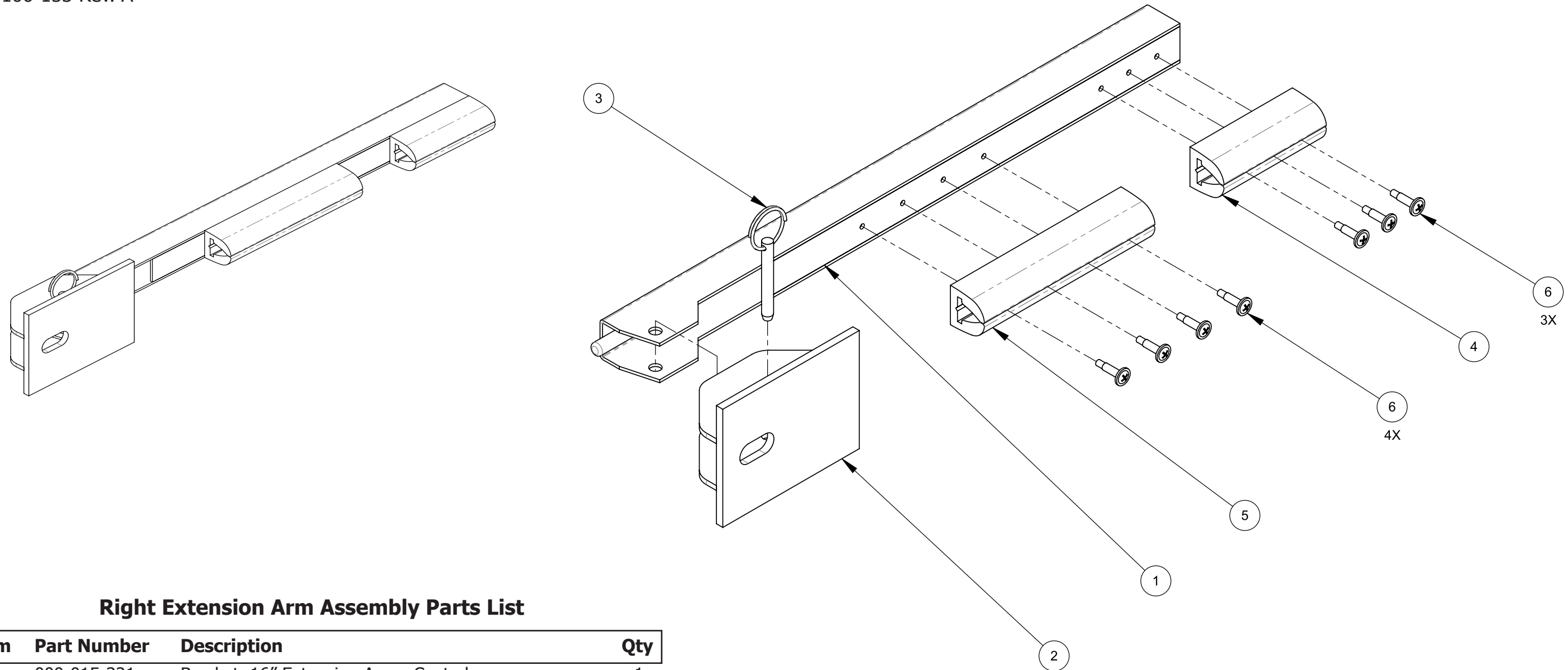
Figure 33. Left Extension Arm Assembly
100-100-152 Rev. A



Left Extension Arm Assembly Parts List

Item	Part Number	Description	Qty
1	000-015-321	Bracket, 16" Extension Arm - Coated	1
2	000-015-320	Bracket, Sliding - Coated	1
3	000-103-053	Pin, Release Pin	1
4	000-108-104	Protector, 3" Extension Arm Bumper Pad	1
5	000-108-105	Protector, 5" Extension Arm Bumper Pad	1
6	000-143-058	Screw, #8 Tek X 3/4" Lg.	7

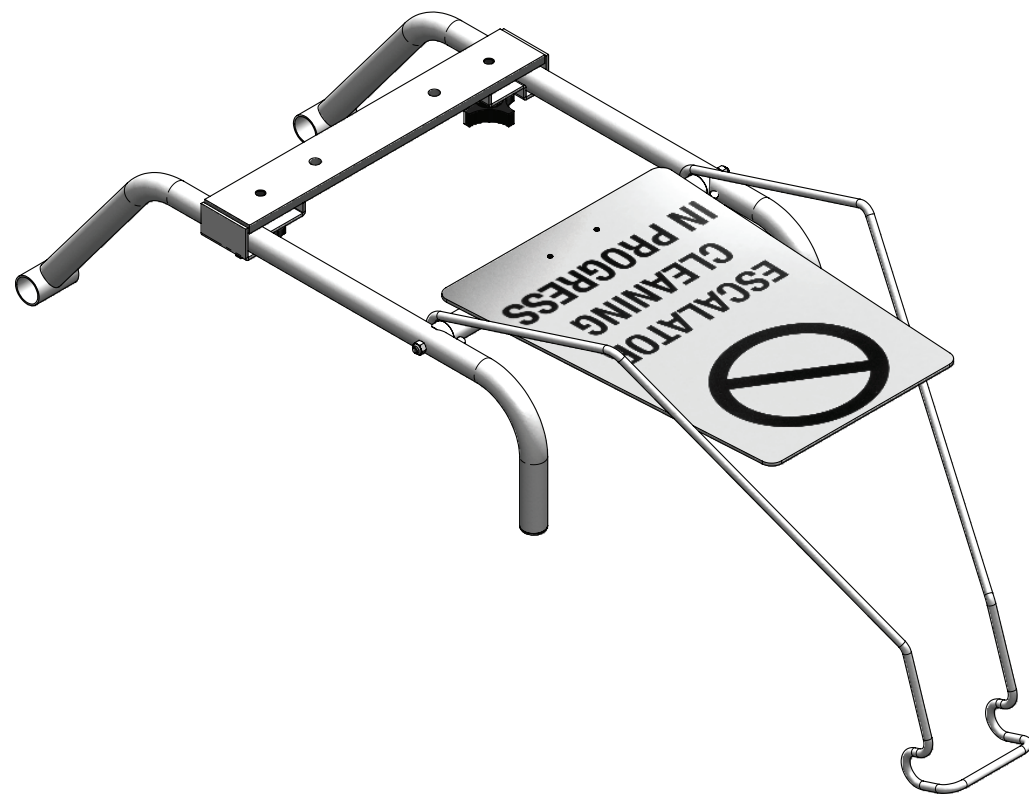
Figure 34. Right Extension Arm Assembly
100-100-153 Rev. A



Right Extension Arm Assembly Parts List

Item	Part Number	Description	Qty
1	000-015-321	Bracket, 16" Extension Arm - Coated	1
2	000-015-320	Bracket, Sliding - Coated	1
3	000-103-053	Pin, Release Pin	1
4	000-108-104	Protector, 3" Extension Arm Bumper Pad	1
5	000-108-105	Protector, 5" Extension Arm Bumper Pad	1
6	000-143-058	Screw, #8 Tek X 3/4" Lg.	7

Figure 35. Lift Arm Assembly
100-100-154 Rev. A



Lift Arm Assembly Parts List

Item	Part Number	Description	Qty
1	105-100-012	Assembly, Safety Sign, Escalator Cleaning	1
2	000-027-101	Cap/Plug, Non-Threaded CCF Series	2
3	000-033-110	Clamp, Head Holder Mount - Coated	2
4	000-037-041	Connector, Tube Wedge End	2
5	000-055-124	Frame, Lift Arm - Coated	2
6	000-055-123	Frame, Rack Cross Bar - Coated	1
7	000-061-116	Handle, Latching Bail	1
8	000-061-106	Knob, 4 Flute Black W/ 3/8" Stud	2
9	000-094-009	Nut, 1/4"-20UNC Nylock	2
10	000-105-160	Plate, Head Mount - Coated	1
11	000-117-025	Rod, Lift Arm Connecting - Fabricated	1
12	000-174-005	Washer, 3/8" Flat	2
13	000-174-052	Washer, 3/8" Flat	2

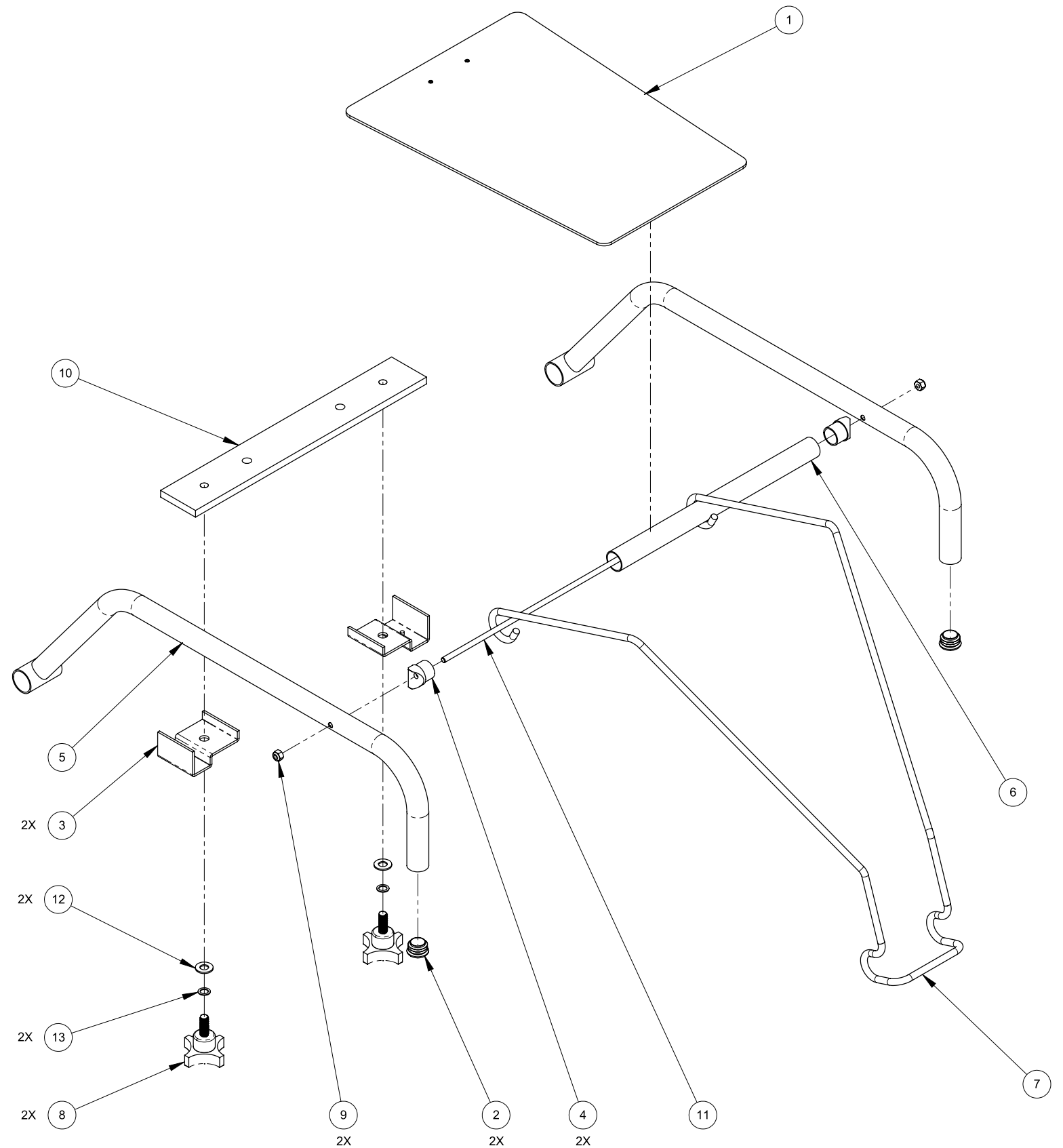
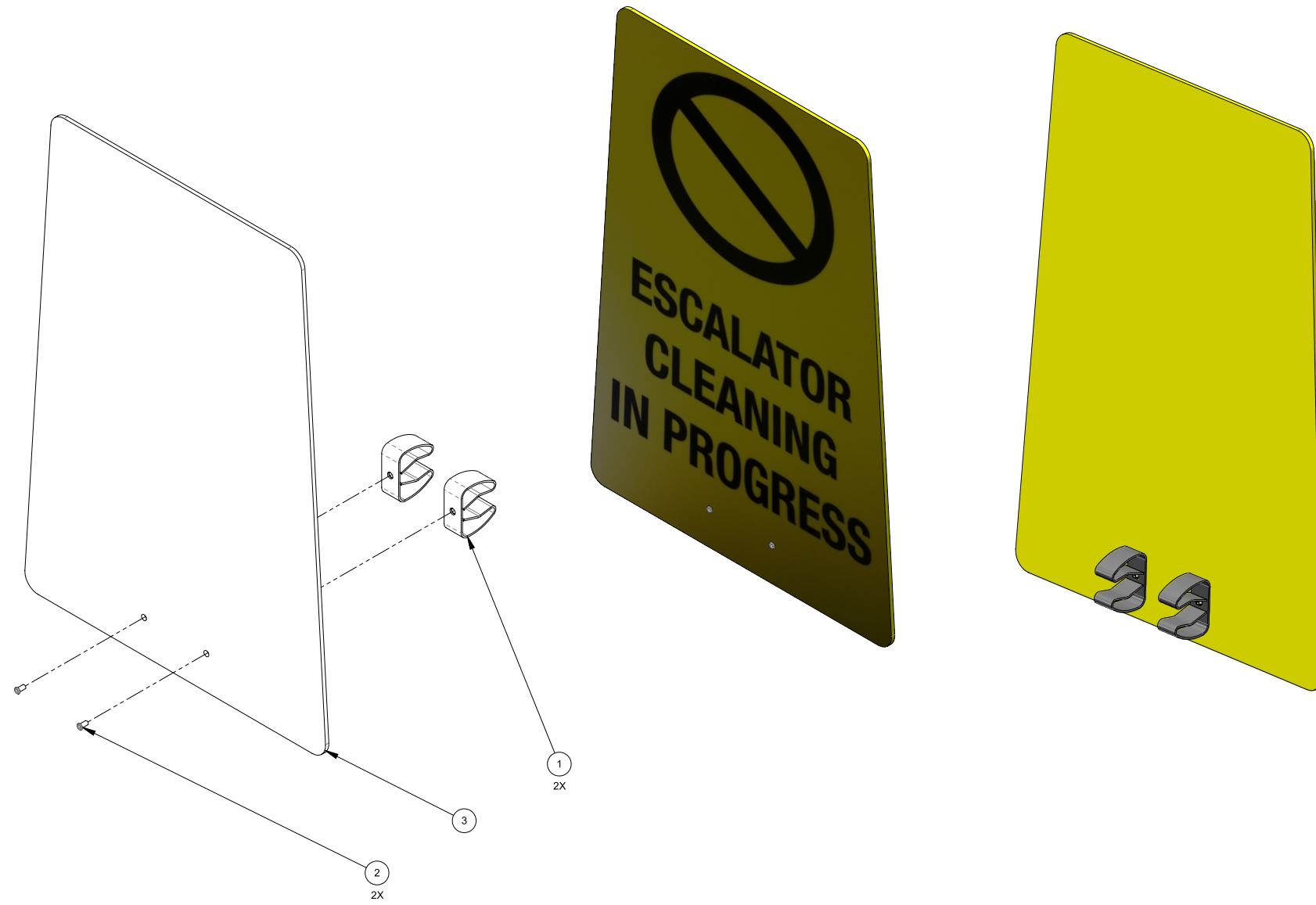


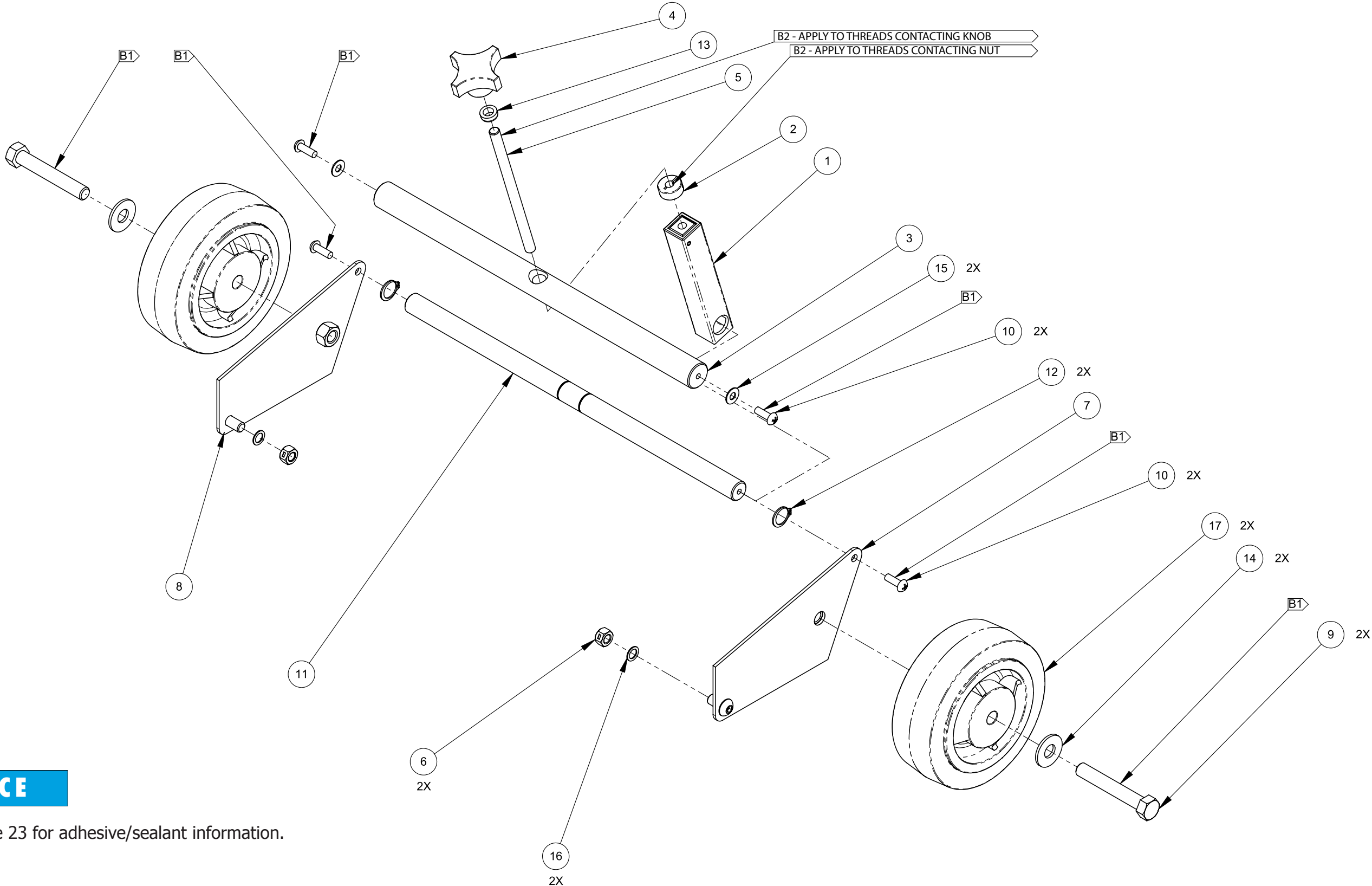
Figure 36. Escalator Cleaning Safety Sign Assembly
105-100-012 Rev. B



Escalator Cleaning Safety Sign Assembly Parts List

Item	Part Number	Description	Qty
1	000-033-066	Clamp, 3/4" Spring	2
2	000-140-014	Rivet, 3/16" X 3/8"	2
3	000-002-026	Safety Sign, Escalator Cleaning - Modified	1

Figure 37. Wheels and Jack Assembly
100-100-155 Rev. A



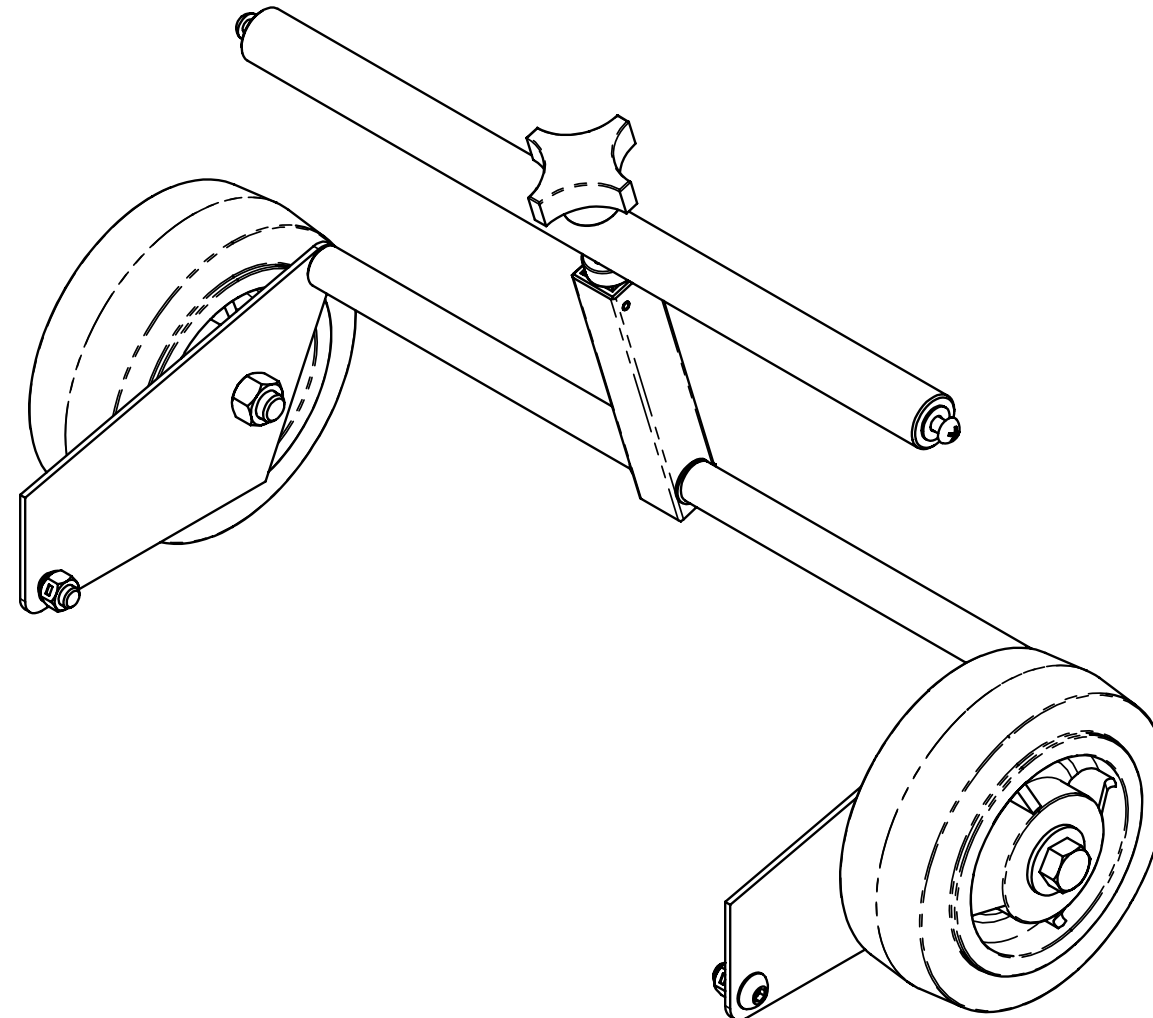
NOTICE

See Figure 23 for adhesive/sealant information.

Wheels and Jack Assembly Parts List

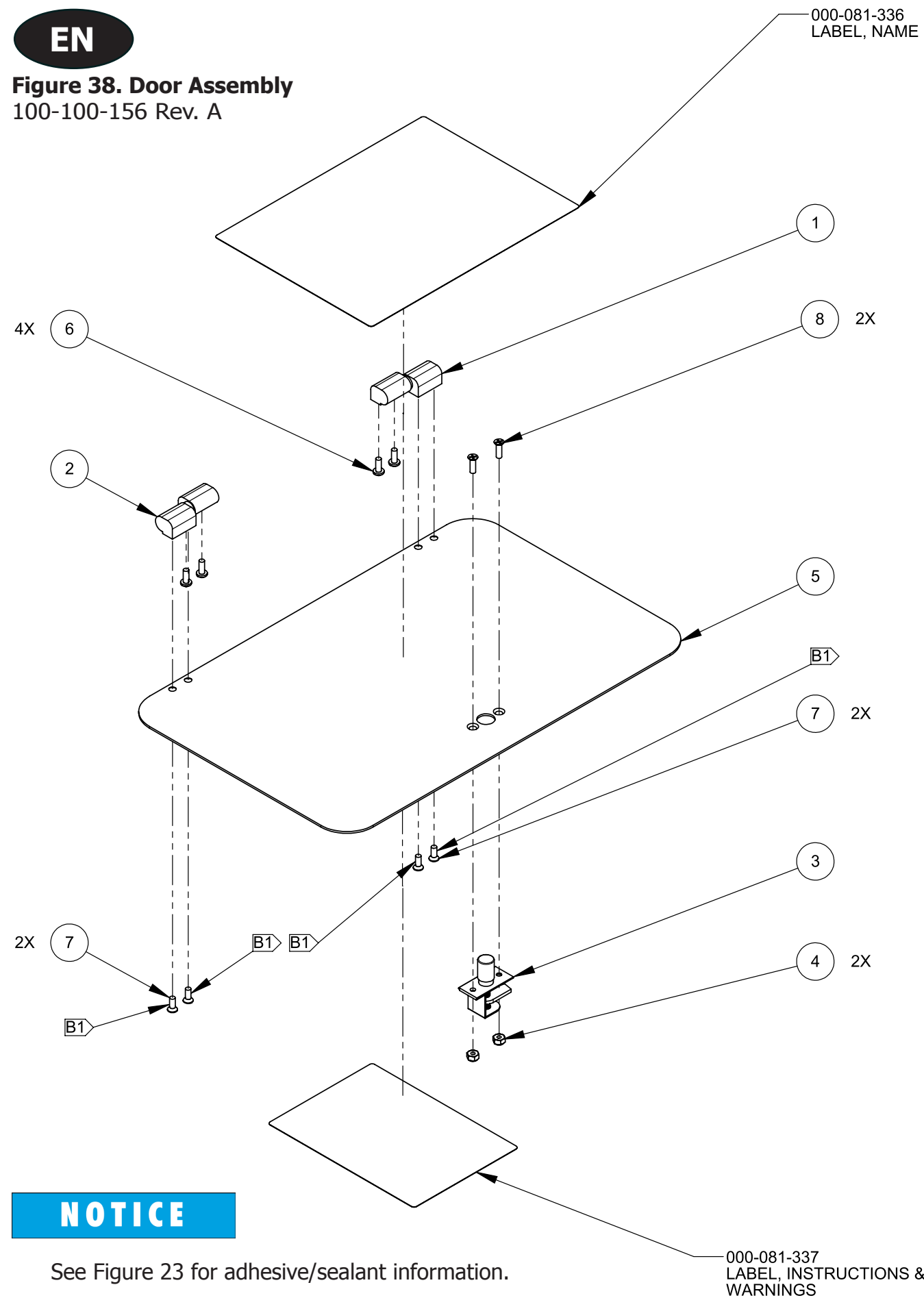
Item	Part Number	Description	Qty
1	000-055-117	Assembly Jack Nut Tube	1
2	000-020-027	Collar, Jack	1
3	000-055-125	Heel, Cross Bar - Anodized	1
4	000-061-015	Knob, Adjusting	1
5	000-085-013	Linkage, Jack Screw	1
6	000-094-015	Nut, 3/8"-16UNC Hex 2-Way Locking	2
7	000-105-164	Plate, Sector, Left - Coated	1
8	000-105-163	Plate, Sector, Right - Coated	1
9	000-143-043	Screw, 1/2-13 X 3 1/4" HHC	2

Item	Part Number	Description	Qty
10	000-143-315	Screw, 1/4-20 X 3/4" R HD	4
11	000-055-126	Sector, Cross Bar - Anodized	1
12	000-139-008	Snap Ring, #00629756	2
13	000-174-078	Swivel Washer	1
14	000-174-007	Washer, 1/2" Flat	2
15	000-174-003	Washer, 1/4" Flat	2
16	000-174-052	Washer, 3/8" Flat	2
17	000-177-017	Wheel, 6" X 2" Rubber Wheel	2



EN

Figure 38. Door Assembly
100-100-156 Rev. A



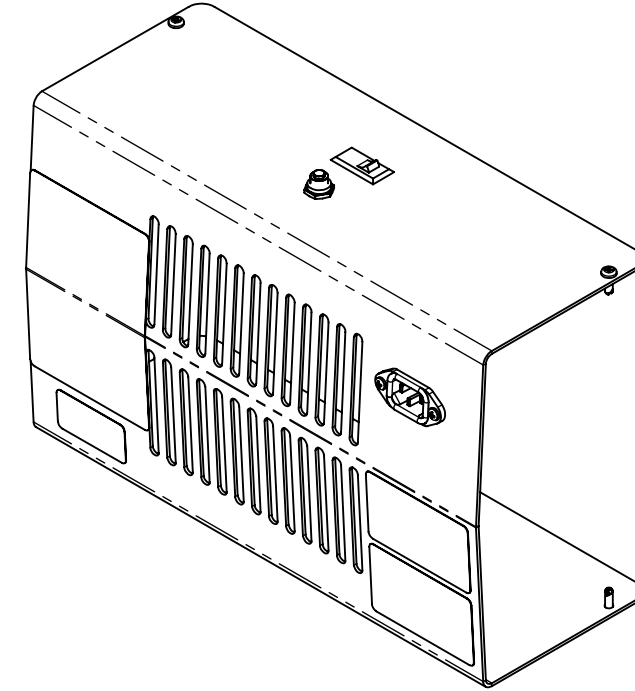
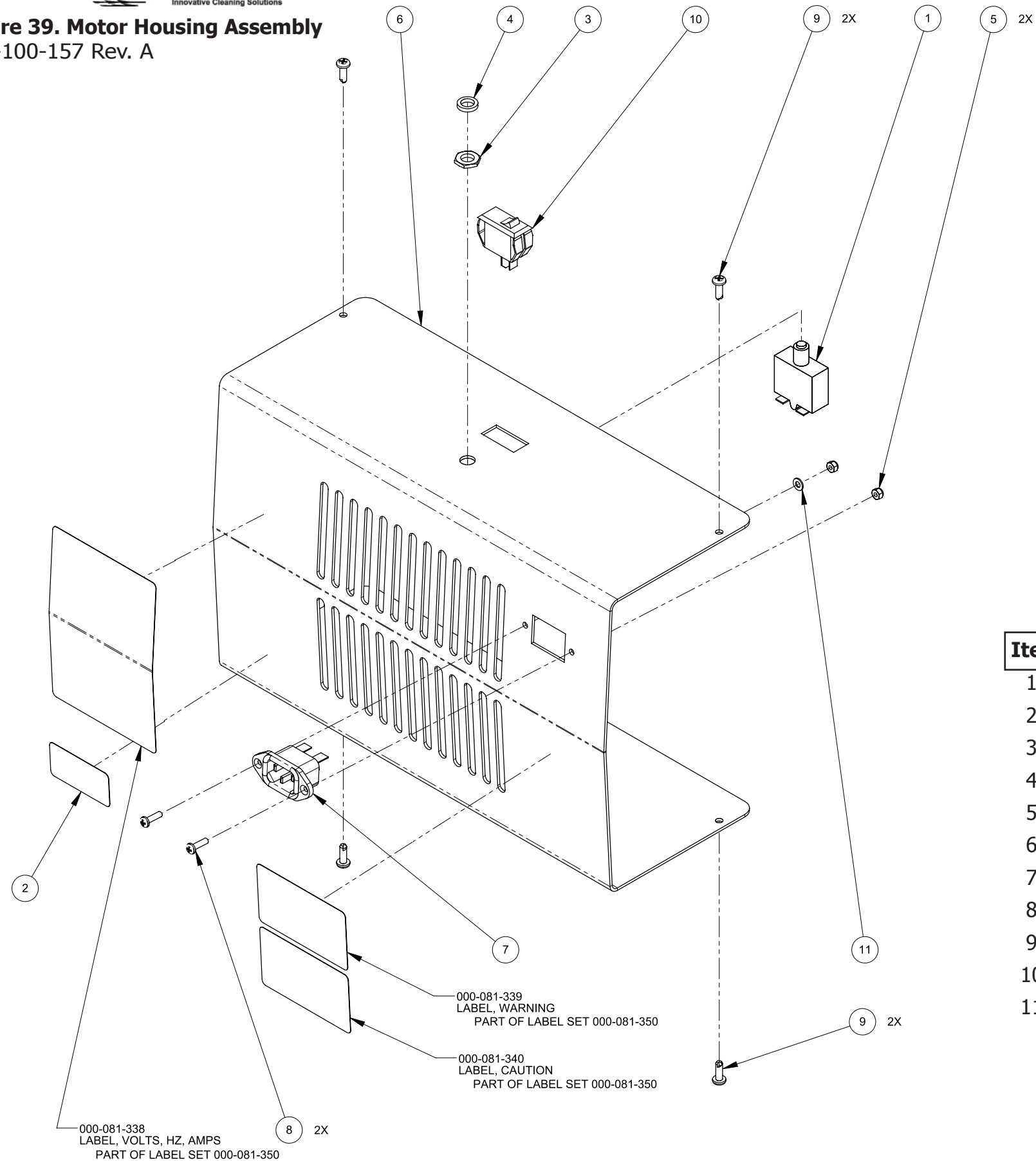
Door Assembly Parts List

Item	Part Number	Description	Qty
1	000-067-017	Hinge Set, Left	1
2	000-067-018	Hinge Set, Right	1
3	000-086-107	Latch	1
4	000-094-034	Nut, #10-24UNC Nylock	2
5	000-100-054	Panel, Vacuum Access Door - Coated	1
6	000-143-061	Screw, #10-24 UNC X 0.50" Lg. PPH	4
7	000-143-114	Screw, #10-24UNC X 0.50" Lg. Flat Head Phillips	4
8	000-143-110	Screw, #10-24UNC X 5/8" Lg. Flat Head	2

NOTICE

See Figure 23 for adhesive/sealant information.

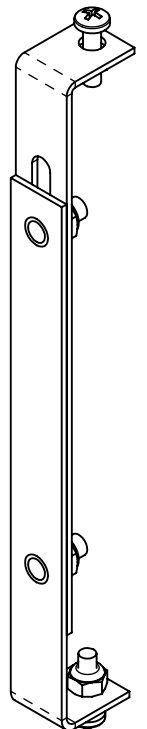
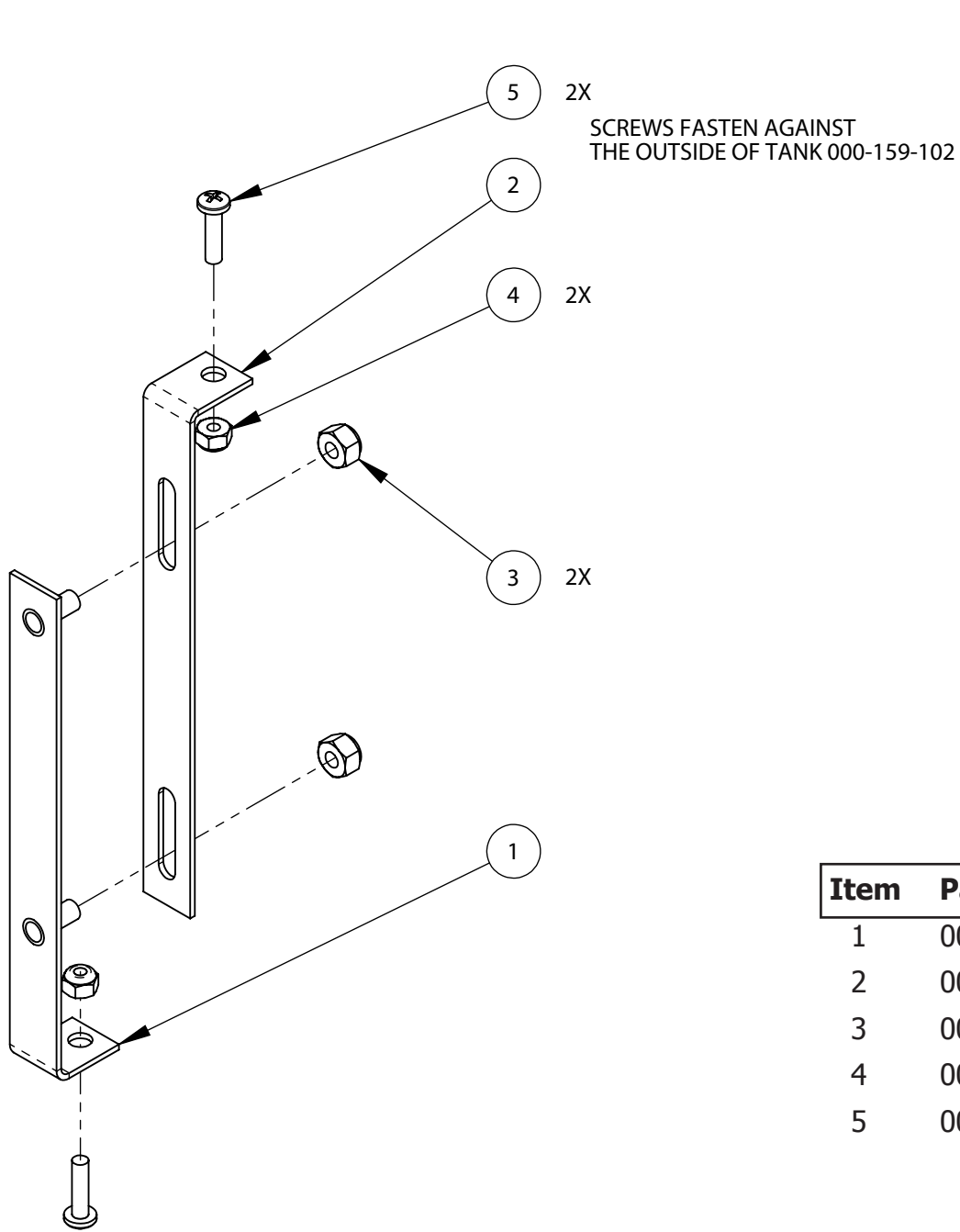
Figure 39. Motor Housing Assembly
100-100-157 Rev. A



Motor Housing Assembly Parts List

Item	Part Number	Description	Qty
1	000-018-003	Breaker, 15 Amp Circuit	1
2	000-081-199	Label, TreadMaster CSA Certification	1
3	000-094-025	Nut, 3/8-27 Half Nut Brass	1
4	000-094-024	Nut, 3/8-27 Knurled Finish	1
5	000-094-063	Nut, #6-32UNC Nylock	2
6	000-100-055	Panel, Motor Housing - Coated	1
7	000-106-107	Plug, Recessed Male - 96+	1
8	000-143-046	Screw, #6-32 X .500" Lg. PHP	2
9	000-143-314	Screw, #8 X 1/2" Lg. Pan Head	4
10	000-157-115	Switch, 16 Amp Mini Rocker	1
11	000-174-045	Washer, #6 S/S Flat	1

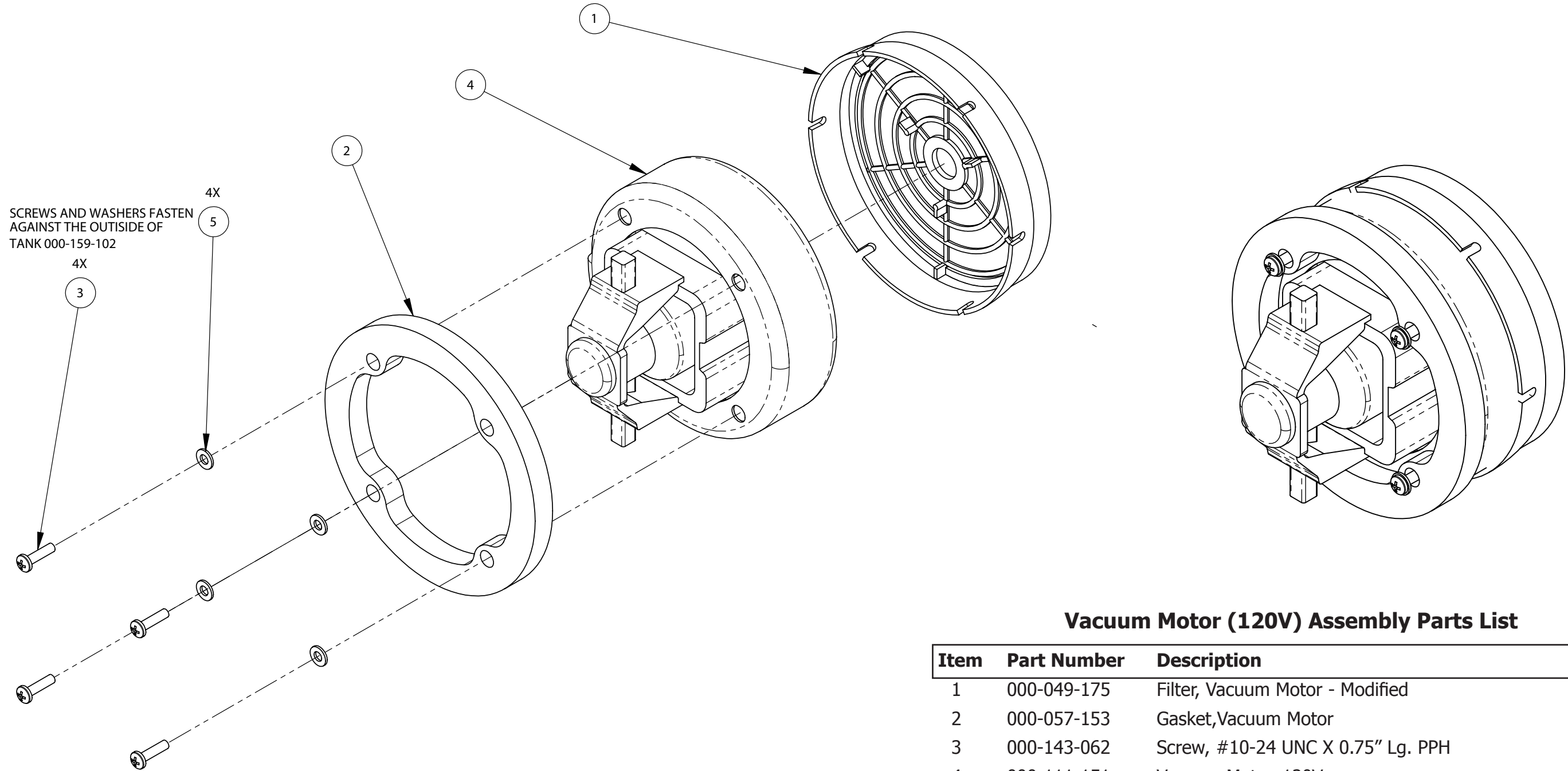
Figure 40. Housing Support Assembly
100-100-158 Rev. A



Housing Support Assembly Parts List

Item	Part Number	Description	Qty
1	000-015-330	Bracket, Housing Support - Fabricated	1
2	000-015-322	Bracket, Housing Support - Fabricated	1
3	000-094-009	Nut, 1/4"-20UNC Nylock	2
4	000-094-034	Nut, #10-24UNC Nylock	2
5	000-143-062	Screw, #10-24UNC X 0.75" Lg. PPH	2

Figure 41. Vacuum Motor (120V) Assembly
100-100-159 Rev. A



Vacuum Motor (120V) Assembly Parts List

Item	Part Number	Description	Qty
1	000-049-175	Filter, Vacuum Motor - Modified	1
2	000-057-153	Gasket, Vacuum Motor	1
3	000-143-062	Screw, #10-24 UNC X 0.75" Lg. PPH	4
4	000-111-151	Vacuum Motor, 120V	1
5	000-174-001	Washer, #10 Flat	4



WARRANTY INFORMATION

When requesting warranty information, call or write and provide the following information:

1. When and where the equipment in question was purchased.
2. Model and serial number of machine.
3. Part number and description of part.
4. Description of failure or defect.

Upon receipt of the above information, a Returned Material Authorization (RMA) will be issued. All packages should be prepaid and clearly marked with the RMA number. If these conditions are not met, shipment will be refused.

After evaluation, the items will be repaired or replaced at our discretion.

If a failure or defect is the result of physical abuse, or if the warranty period has expired, repairs will be charged to the customer.

U.S. Products offers a lifetime warranty on our rotationally molded bodies, tanks and heater elements, and a one year warranty on all parts.

During this warranty period, U.S. Products will repair or replace, at our sole option, free of charge, any parts shown to be defective in either material or workmanship. Said parts must be returned with postage or freight pre-paid. Specific parts, such as switches, motors, pumps and fittings are also warranted for a period of 1 year from date of original purchase.

NOTICE

This warranty is for replacement of defective parts or workmanship only. IT DOES NOT PROVIDE FOR REPLACEMENT OF COMPLETE UNITS DUE TO DEFECTIVE PARTS. It does NOT cover normal wear items such as hoses, power cords, bumpers, carbon brushes, gaskets, etc., which require replacement as a result of ordinary usage. Also, failures caused by abuse, neglect, alterations or operation contrary to manufacturer's 'recommendations are not warranted.

Replacements parts are warranted only for the remainder of the original warranty period.

NOTICE

This warranty does not cover labor or other charges in connection with replacement parts. **NO LOCAL SERVICE OR REPAIR CHARGES ARE ALLOWED UNLESS PRIOR AUTHORIZATION IS OBTAINED.**

There are no other warranties, expressed or implied, made with respect to this equipment. The manufacturer assumes no responsibility for damages resulting from the use or misuse of this equipment.