

DriMaster III HiFlo Upholstery Tool Owner's Manual

Model 000-163-220

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1 - General Information

Congratulations on purchasing the very latest in upholstery cleaning technology.

The patented DriMaster III HiFlo Upholstery Tool, shown in Figure 1-1, is perfect for cleaning upholstery, fabric and stairs. It has no trigger valve and never needs a separate dry pass.*



Figure 1-1. DM III Shown with Hide-A-Hose Attached

The tool's new design incorporates light weight, extremely durable materials, giving the tool increased levels of strength and comfort.

The DriMaster III HiFlo Upholstery Tool accommodates high volume jobs where production rate is important.

It is capable of solution flow rates for jobs that require a flushing action which makes the tool particularly efficient for stair cleaning.

An optional accessory handle is available to increase comfort on long cleaning jobs.

We trust that you will enjoy many years of reliable upholstery cleaning with the DriMaster III HiFlo Upholstery Tool.

NOTICE

The DriMaster III HiFlo Upholstery Tool can be used with a variety of HydraMaster cleaning systems.

* U.S. Patent No. RE41,367; 7,070,662; RE39,623; D590,111.



CONTACT INFORMATION

If you have any questions regarding the operation, maintenance or repair of this tool, please contact your local distributor.

To find a local distributor, please visit our website at <http://hydramaster.com/HowToBuy/DealerLocator.aspx>.

If your question cannot be resolved by your distributor or by the information within this manual, you may contact HydraMaster direct using the following phone numbers.

HOURS	TELEPHONE NUMBERS	E-MAIL ADDRESSES
Monday-Friday 7:00 a.m. to 5:00 p.m. Pacific Time	Technical Support (425) 775-7275 FAX : (800) 426-4225	Technical Support techsupport@hydramaster.com
	Customer Service/Parts (425) 775-7276 FAX: (425) 771-7156	Customer Service/Parts parts@hydramaster.com

When calling your distributor, be sure to reference the date of purchase.

FOR YOUR REFERENCE:

Date of Purchase: _____

Purchased From (Distributor): _____

WARNINGS, CAUTIONS AND NOTICES

⚠ WARNING

HydraMaster uses this WARNING symbol throughout the manual 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.



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2 - Operating Instructions

Your DriMaster III HiFlo Upholstery Cleaning Tool has been engineered using the latest and most sophisticated technology available to produce the finest upholstery cleaning results possible. Despite this, it remains only a tool of the upholstery cleaning trade and can produce only as good a job as the person operating it.



HydraMaster strongly recommends attending an Institute of Inspection, Cleaning and Restoration Certification (IICRC) approved Upholstery Cleaning course as soon as possible and to always follow the IICRC guidelines when cleaning.



OPTIONAL ACCESSORY HANDLE ASSEMBLY (P/N 000-061-144)

The DriMaster III HiFlo tool can be equipped with an optional accessory handle (purchased separately) to increase comfort and control during difficult or extended repetitive use of the upholstery tool.

1. Attach the left and right handles (items 3 and 4 - see Figure 2-1) to the DM III.
2. The shorter screws, nuts, and washers (items 2, 5 and 6) are used on the upper handle.
3. The longer screws, nuts and washers (items 1, 5 and 6) are used to connect the assembled handle to the tool body.

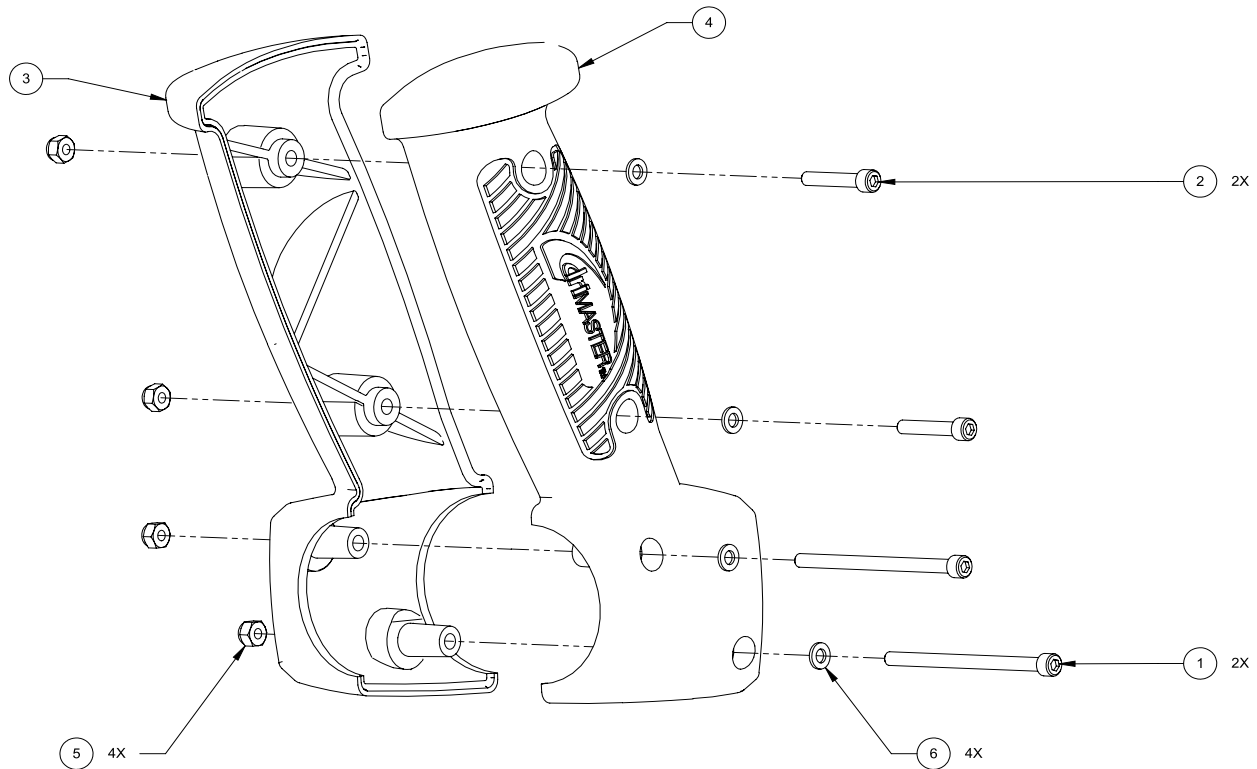


Figure 2-1. Attach Optional Accessory Handle to the DM III

BEGIN CLEANING

⚠ WARNING

Do not use the DriMaster III on a machine exceeding 14" Hg vacuum and 500 psi solution pressure. Personal injury could result.

1. Attach the solution hose to the solution quick connect. A 1 ½" - 2" vacuum hose can be attached to the vacuum hose manifold (see Figure 2-2).

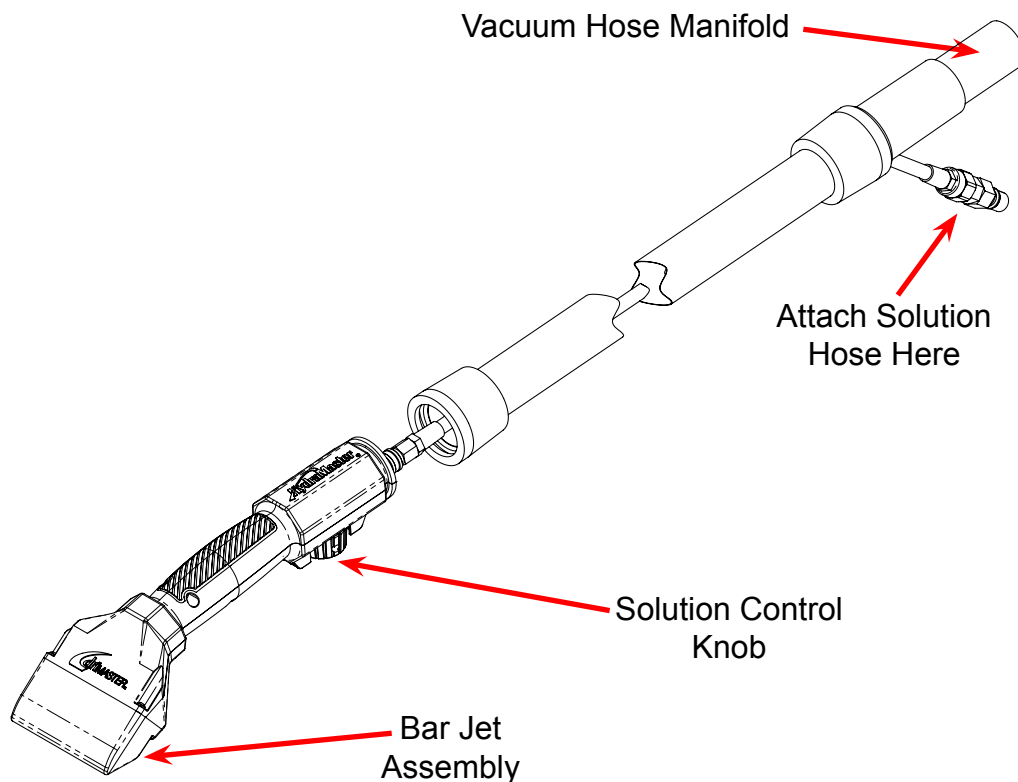


Figure 2-2. Attach Solution Hose and Adjust Solution Control Knob

2. Adjust the solution volume by turning the solution control knob. Turning the knob counterclockwise increases the solution volume; turning the knob clockwise decreases the solution volume. The amount of solution volume you need will vary with the type of machine you are cleaning with and the type of material you are cleaning.
3. To begin adjustment, make sure the cleaning machine is running and both vacuum and solution hoses are connected.
4. Slowly open the solution control knob until solution is flowing across the entire bar jet (without overspray).



When the solution knob is turned toward the “HiFlo” position, the solution will form a liquid “sheet” across the bar jet (see Figure 2-3)



Figure 2-3. Turning Knob to “HiFlo” Position Forms Sheet of Solution Across Bar Jet

NOTICE

The amount of vacuum and pressure produced by your machine will determine the overspray on the bar jet assembly.

⚠ WARNING

Do not touch the bar jet assembly during operation or immediately afterward; doing so may cause severe burns.

CAUTION

When cleaning stairs, do not allow the tool to come into contact with the tack strip along the edges of the stairs. The tool’s cleaning surface may be damaged by the tack strip. Equipment damage such as this is not covered by warranty.

3 - Tool Maintenance

CLEANING BAR JET ASSEMBLY

The bar jet assembly needs to be cleaned with a 0.015" feeler gauge.

1. Slide the feeler gauge into the small slot (see Figure 3-1).
2. Gently slide the gauge back and forth to clear any debris from the opening

CAUTION

Use only a feeler gauge to clean the slot in the bar jet. Use of any other implement (paper clip, knife blade) may damage the opening and seriously reduce the cleaning effectiveness of the upholstery tool.

NOTICE

HydraMaster recommends you clean the filter cartridge and orifice plate on a periodic basis to eliminate hard water deposit buildup. Both components are conveniently located in the Hide-a-Hose solution quick connect (see Figure 3-2).

See page 3-4 for additional cleaning information.



Figure 3-1. Clean Bar Jet Assembly with Feeler Gauge

CLEANING THE FILTER CARTRIDGE AND ORIFICE PLATE

1. Disassemble the Hide-a-Hose quick connect to gain access to the filter cartridge and orifice plate (see Figure 3-2 and Figure 3-3).
2. Remove the filter cartridge and orifice plate, place them in a cup full of white vinegar and soak for 30 minutes.

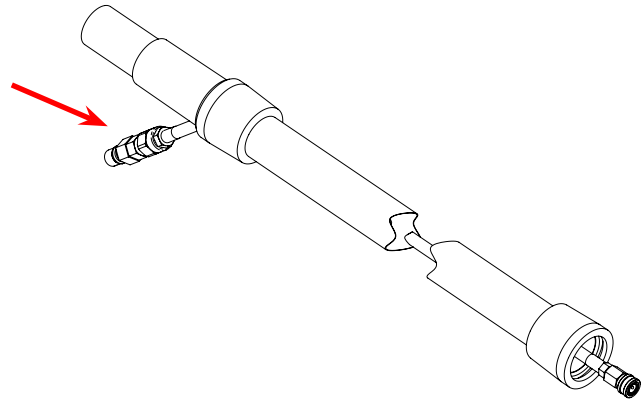


Figure 3-2. Disassemble Quick Connect

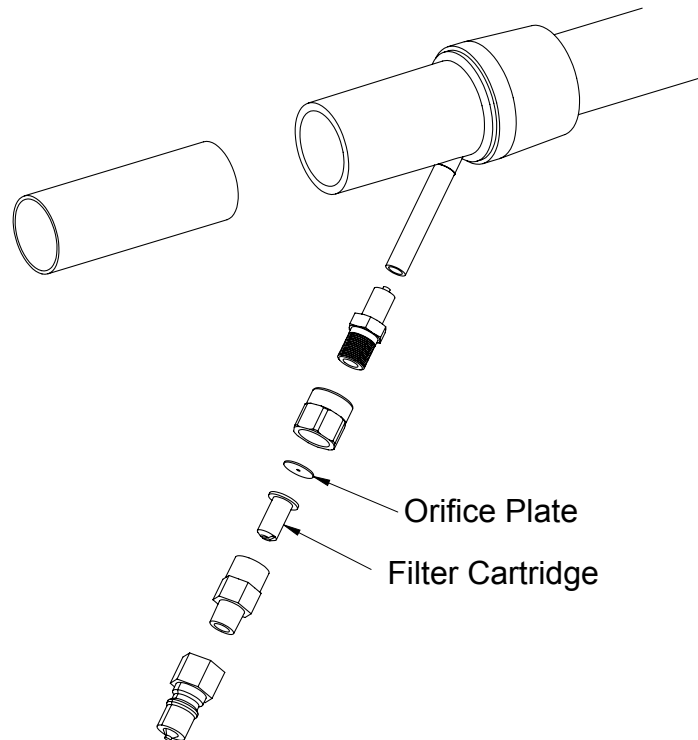


Figure 3-3. Remove Filter Cartridge and Orifice Plate

3. Clean the orifice plate's opening with a wooden skewer or a similar tool such as a plastic pick.

CAUTION

Do not use a metal object to clean the opening of the orifice plate; doing so can damage the plate.

4. Remove both parts from the vinegar and thoroughly rinse them with clean water.
5. Re-assemble the solution quick connect, re-installing the filter cartridge and orifice plate in the proper order (see Figure 3-3).

CAUTION

Do not operate the DriMaster III without the orifice plate installed. If you do not properly re-install the orifice plate in the solution quick connect as indicated in Figure 3-3, equipment damage could result. Such equipment damage is not covered by warranty.

NOTICE

It may be necessary to periodically clean the inside of the tool, hose and manifold. Debris can build up over time, restricting the air flow.

Follow this procedure to disassemble the tool and clean the interior:

1. Remove the nose of the tool by first removing the four 4-40 screws using an Allen head wrench (see circled screws in Figure 3-4).

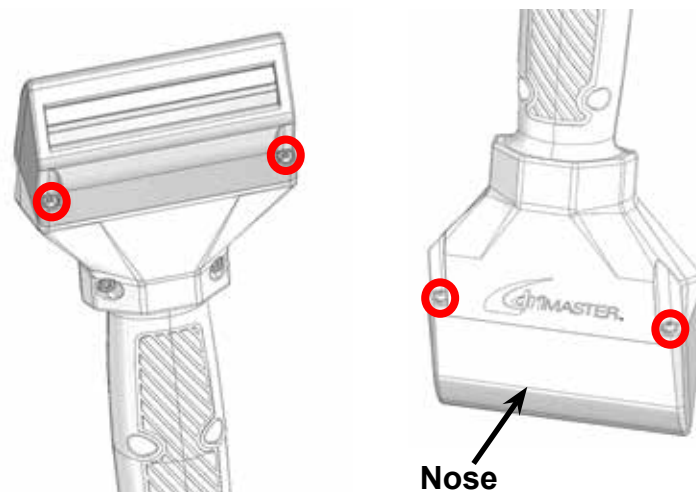


Figure 3-4. Remove Four 4-40 Screws (Circled) from Nose of Tool

2. Clear any debris build up from the interior of the tool.
3. Re-install the nose, carefully ensuring that the bar jet assembly enters the space between each mounting groove inside the end of the nose (see Figure 3-5).

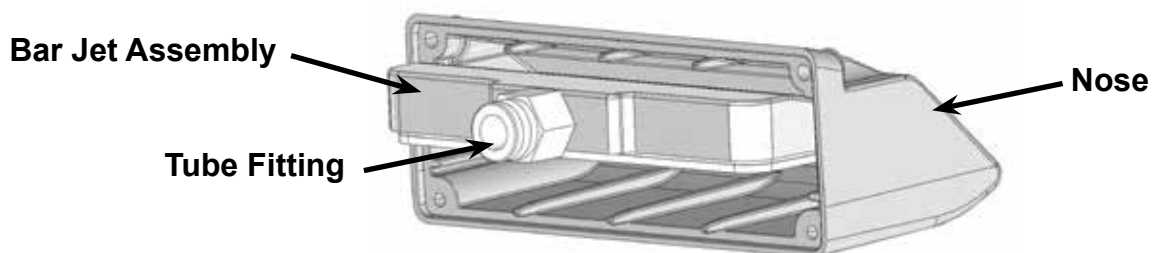


Figure 3-5. Re-install Nose

4. Carefully fit the nose to the end of the tool body while aligning the mounting flange over the top and bottom halves of the tool.
5. After the nose is seated, install the four 4-40 mounting screws using the thread locker indicated in Figure 4-2.

NOTICE

The material of the nose can slowly wear down over time, due to regular use; this is typical and is not considered a warranty issue.

HydraMaster recommends that the operator/distributor stock replacement parts in the service vehicles.



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4 - Assemblies and Parts Lists

This section of the manual shows the DM III assembly illustrations.

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 HydraMaster equipment.

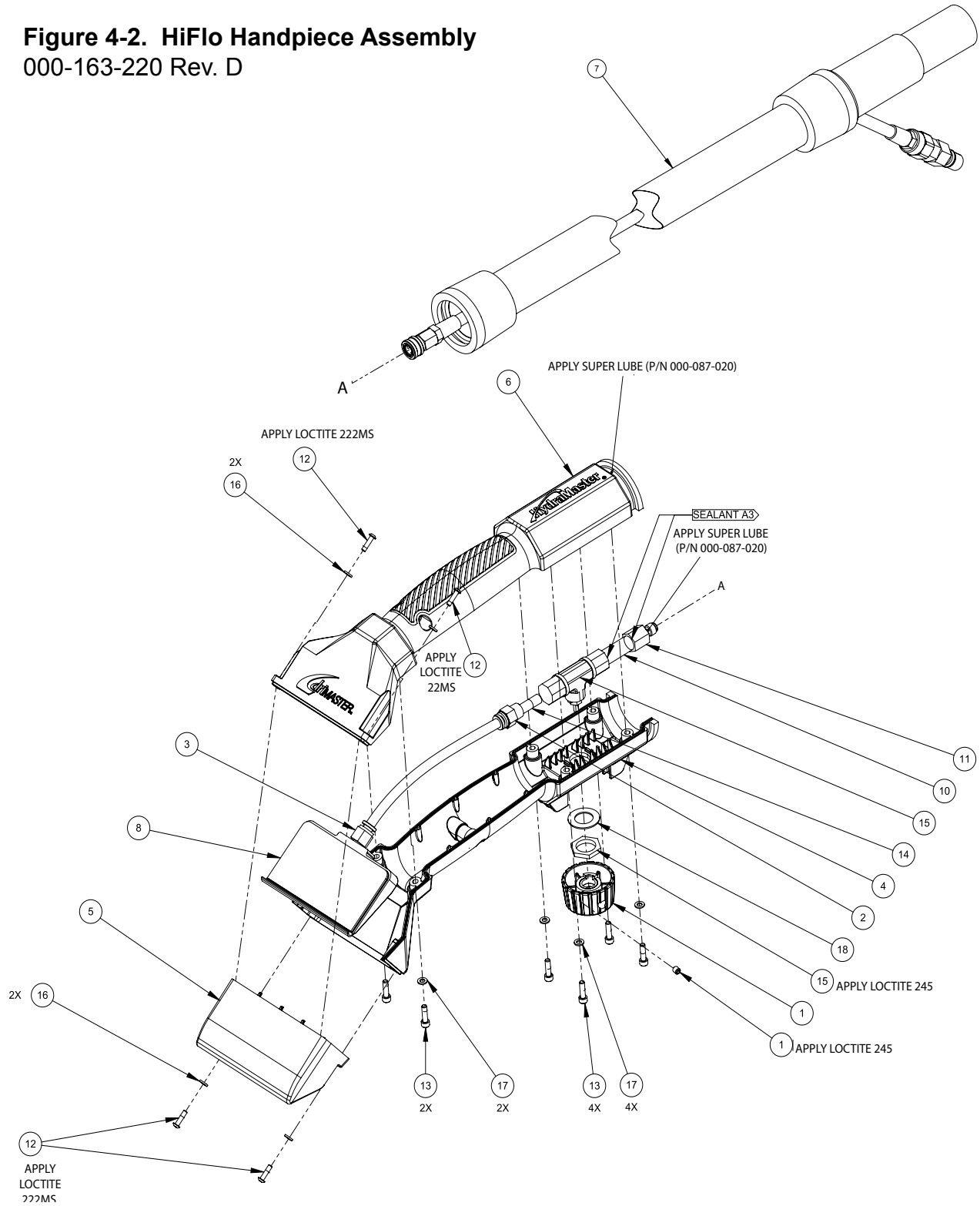
Refer to Figure 4-1 to identify those substances such as A1, A2 and so forth. Equivalent products are acceptable if they meet or exceed current specifications and are approved by HydraMaster.

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 SFK Anti-Fret</p> 		

Figure 4-1. Adhesive/Sealant Material Reference

Figure 4-2. HiFlo Handpiece Assembly
000-163-220 Rev. D



NOTICE

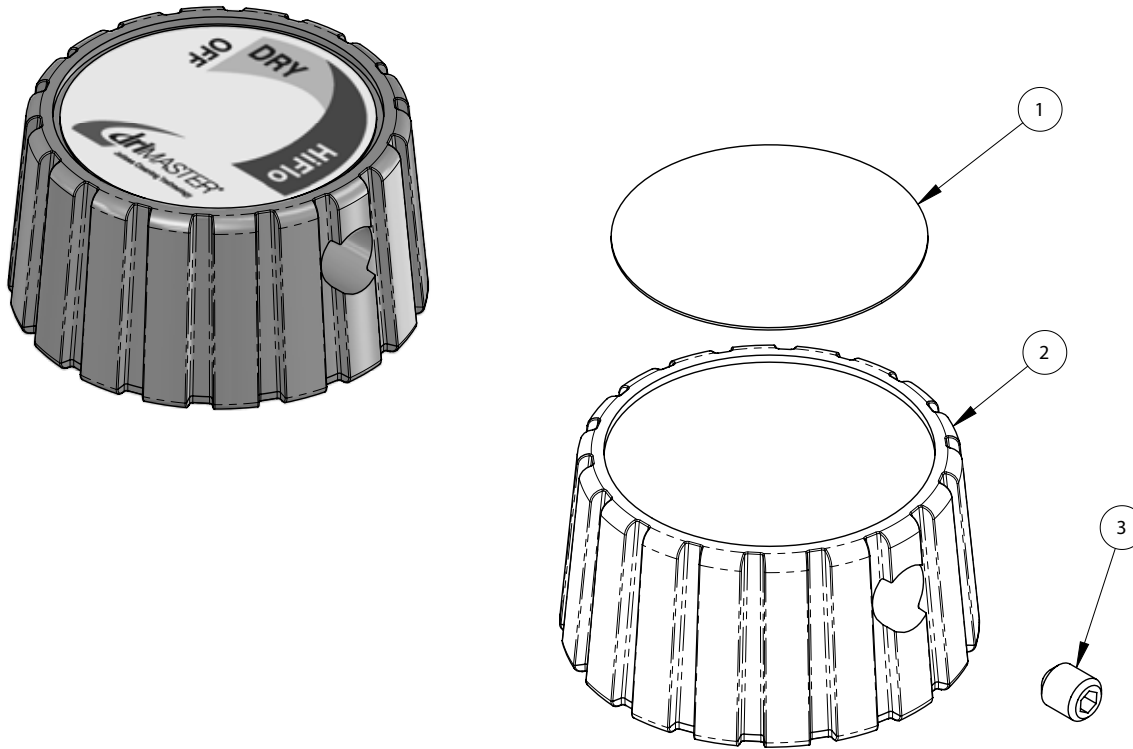
See Figure 4-1 for adhesive/sealant material Information.



HiFlo Handpiece Assembly Parts List

Item	Part Number	Description	Qty
1	000-061-146	Assembly, Knob Custom Insert with Label	1
2	000-052-560	Fitting, 1/8" NPT X 1/4" One Touch	1
3	000-052-561	Fitting, 10-32" NPS X 1/4" One Touch	1
4	000-061-186	Handle, Body - Bottom	1
5	000-061-187	Handle, Body - Nose	1
6	000-061-185	Handle, Body - Top	1
7	000-068-667	Hose, Hide-A-Hose Assembly	1
8	000-076-071	Jet Assembly Weldment	1
9	000-182-102	Manual, DM III Hiflo Tool (not shown in illustration)	1
10	000-052-762	Nipple, 1/8" NPT X 1.5" Lg.	1
11	000-052-765	Quick Disconnect, Male 1/8" NPT	1
12	000-143-351	Screw, 4-40" X 7/16" Lg. S/S Button Head	4
13	000-143-350	Screw, 6/32" X 1/2" Lg. S/S Allen Head - Self Locking	6
14	000-125-350	Tube, 1/4" I.D. X 7.25" Lg.	1
15	000-169-014	Valve, Ball	1
16	000-174-182	Washer, #4 Flat	4
17	000-174-167	Washer, Flat 0.143" I.D. X 0.267" X O.D. 0.032"	6
18	000-174-168	Washer, Flat, .875 O.D. X .515 I.D X .035 Thk	1

Figure 4-3. Knob Assembly
000-061-146 Rev. B

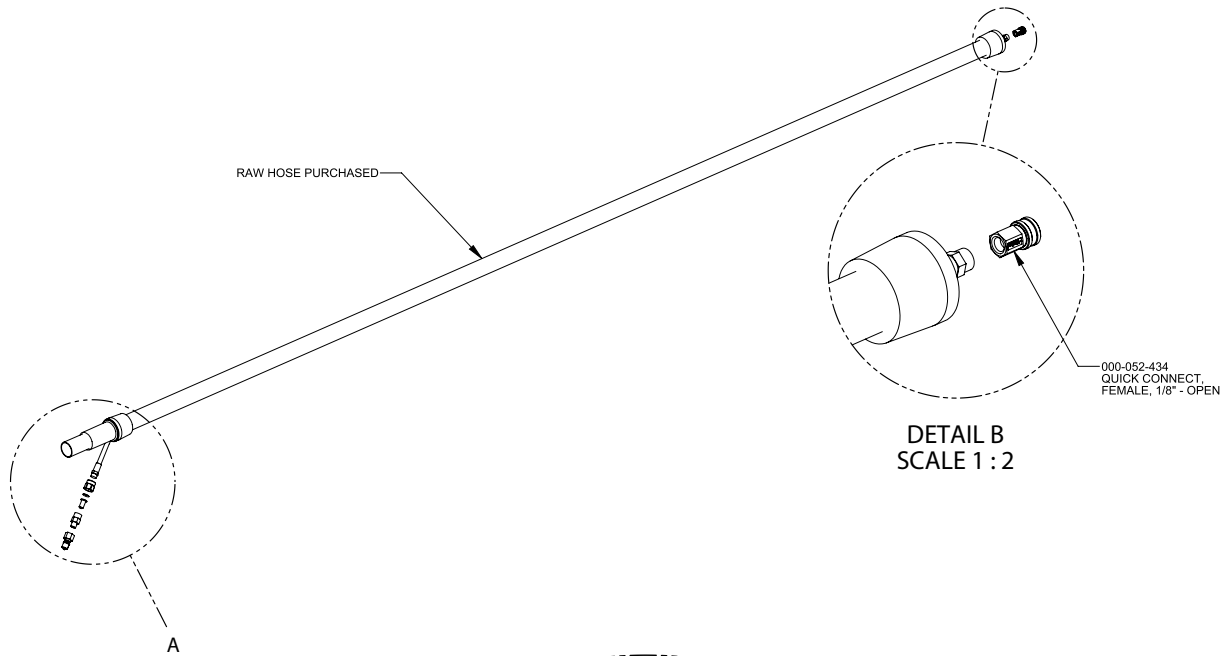


Knob Assembly Parts List

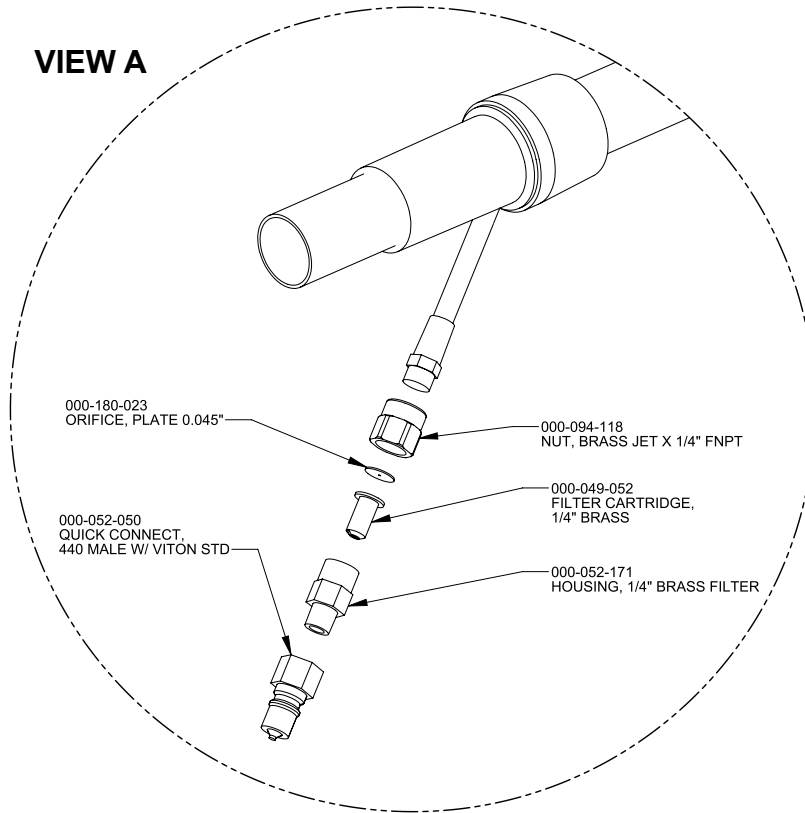
Item	Part Number	Description	Qty
1	000-081-251	Label, Knob - Flow Control	1
2	000-061-145	Knob Assembly, Flow Control Valve	1
3	000-143-374	Screw, #8/32UNC X 0.188 " Lg. Set	1



Figure 4-4. Hide-a-Hose Assembly
000-068-667 Rev. G

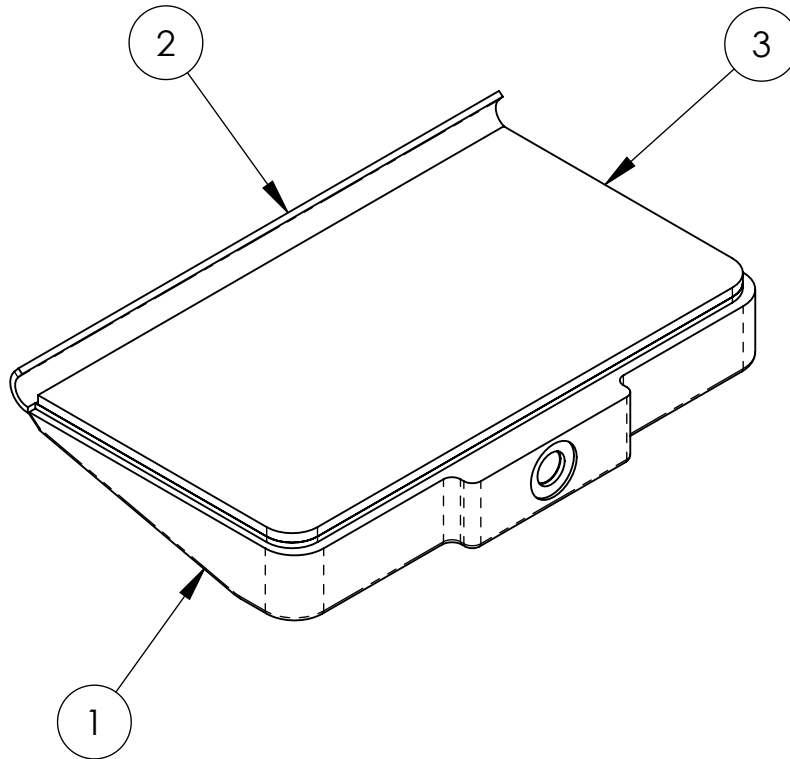


VIEW A



**DETAIL A
SCALE 1 : 2**

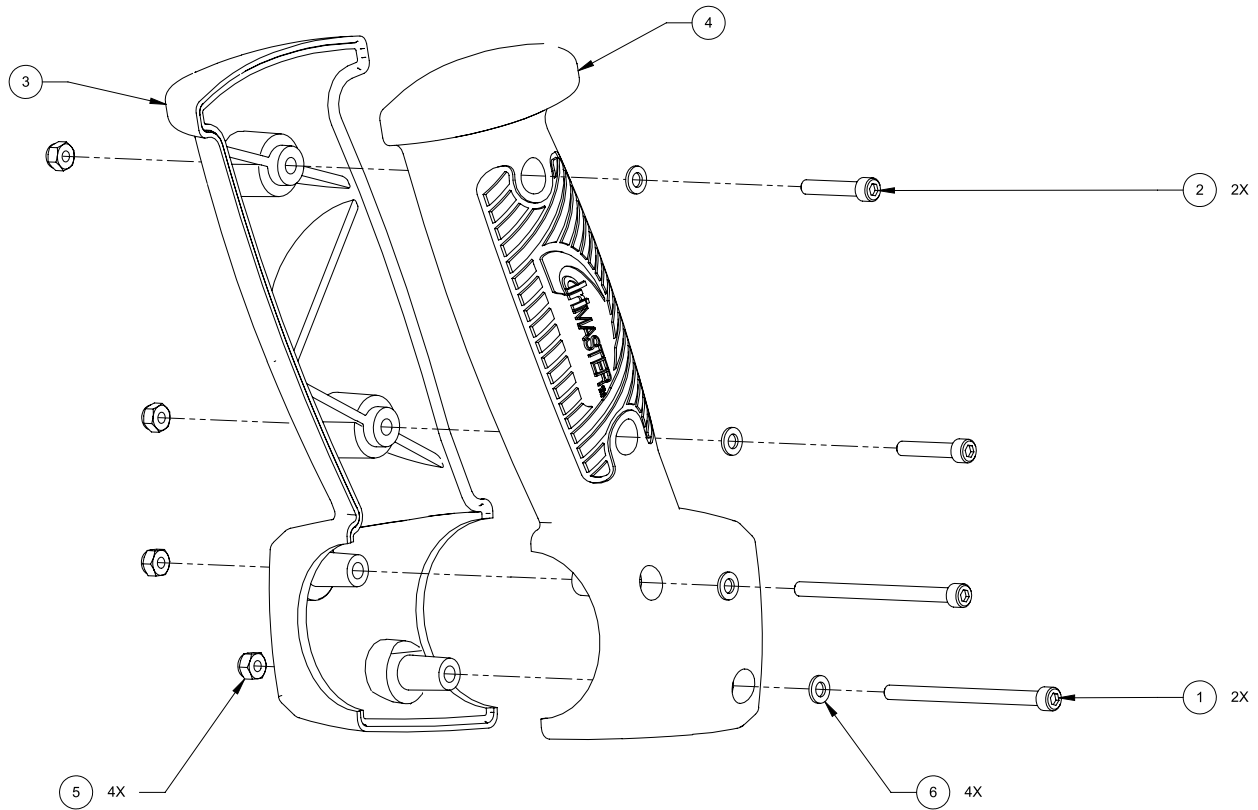
Figure 4-5. Bar Jet Assembly
000-076-071 Rev. A



Bar Jet Assembly Parts List

Item	Part Number	Description	Qty
1	000-076-096	Jet, Bar, Cast - w/ 10-32UNF	1
2	000-105-558	Plate, Top Jet - Continuous Radius	1
3	000-105-529	Plate, Top Jet - Spacer	1

Figure 4-6. Handle Accessory Assembly
000-061-144 Rev. C



Handle Accessory Assembly Parts List

Item	Part Number	Description	Qty
1	000-143-579	Cap Screw, Socket Head, #6-32 X 2	2
2	000-143-577	Cap Screw, Socket Head, 6-32 X 3/4	2
3	000-061-141	Handle, Accessory, Left	1
4	000-061-142	Handle, Accessory, Right	1
5	000-094-063	Nut, #6-32UNC Nylock	4
6	000-174-167	Washer, Flat 0.143" I.D. X 0.267" X O.D. 0.032"	4

5 - How to Order Parts

From time to time, cleaning equipment may wear out or malfunction. To obtain a proper diagnosis of your malfunction, and to order warranty replacement parts or arrange for repairs, it is important that you proceed in the following manner:

WARRANTY PARTS ORDERS

1. Call the local distributor where you purchased your equipment and ask for the Service Department.
2. Have the following information ready:
 - a. Equipment Model
 - b. Date of Purchase
 - c. Description of Malfunction
3. Once it has been determined which parts are needed to correct the problem with your tool, make arrangements with your distributor to either perform the repairs or ship the parts to you.

PARTS ORDERS

Call your local distributor. In most instances, they either stock or have access to parts through a regional service center.

EMERGENCIES

If, for any reason, your distributor is unable to supply you with the necessary parts, they may call us and arrange for expedited shipping.

HydraMaster sells parts only through authorized distributors and service centers.

We shall always endeavor to be fair in our evaluation of your warranty claim, and shall provide you with a complete analysis of our findings.



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6 - Warranty Information

All parts of the Upholstery Tool are warranted against defects as stated in the Golden Guarantee© Limited Warranty document which is shipped to you with this Owner's Manual. Refer to HydraMaster's website at:

<http://hydramaster.com/KnowledgeCenter/Warranty.aspx>

Warranty coverage is available to you through your local distributor.

HydraMaster warranty covers only defective materials and/or workmanship for the period listed. Labor and/or diagnostic reimbursement is specifically excluded.

If you have moved to a new area or have purchased a used machine and need information regarding your local distributor, call HydraMaster at (425) 775-7272 or email us at: custsvc@hydramaster.com.



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