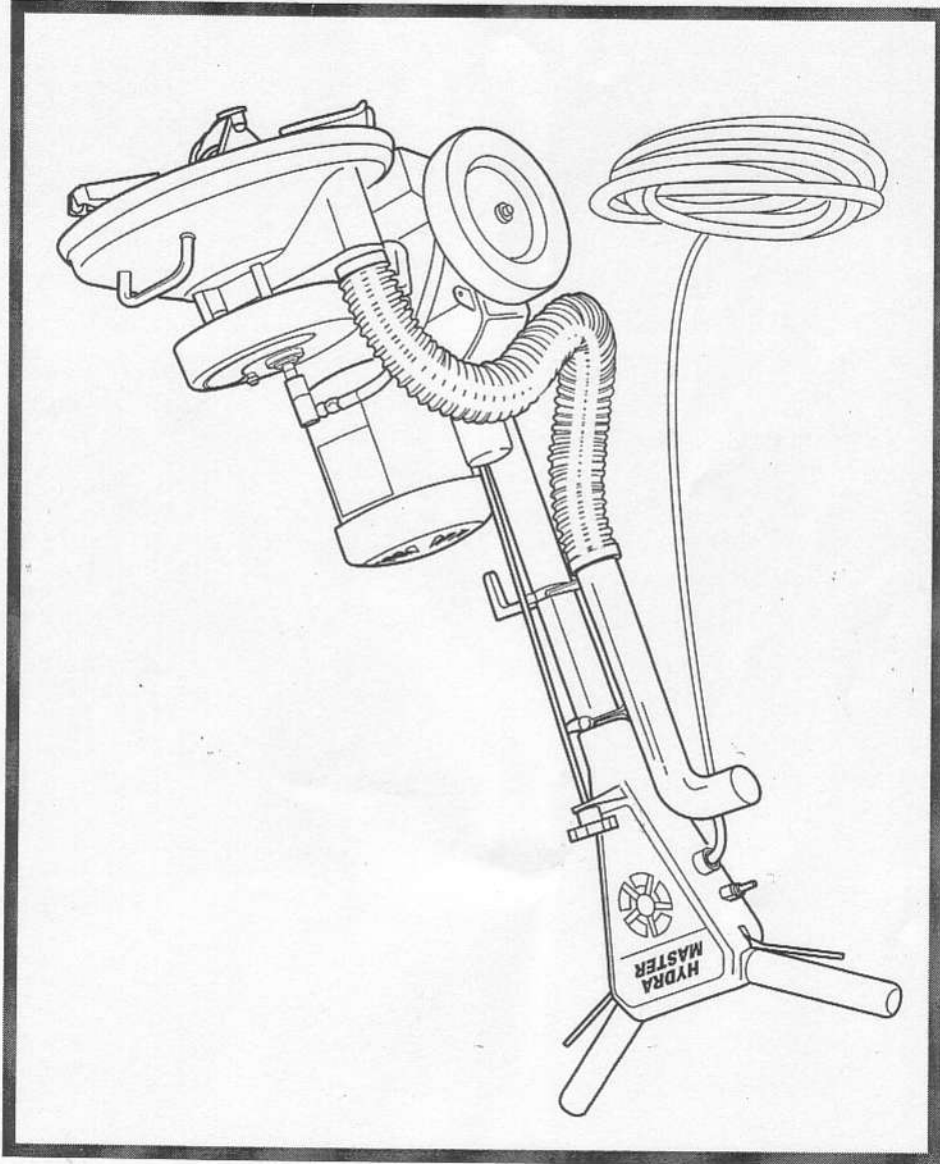


**RX-20**  
Rotary Jet Extractor



**CLEANMASTER**  
a Division of HydrMaster Corporation  
**CMX-20**



**Owner's Manual**

**HYDRAMASTER**  
CORPORATION

# RX-20/CMX-20

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Machine Serial Number \_\_\_\_\_

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HYDRAMASTER® Corporation

Mukitico, Washington

182-006

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Revised 4/6/00

**Congratulations,**

You now own a piece of equipment that incorporates the latest in carpet cleaning technology. The RX-20's features will almost certainly increase the productivity of you and your business, while decreasing the fatigue factor that may have prevented you from going after some of the large cleaning jobs that are available to carpet cleaners and maintenance professionals today. With competition as strong as it is in most communities, you have invested in not only a cleaning tool, but a marketing tool that will enhance your professional image in every way.

The RX-20 is **REVOLUTIONARY**. Your foresight in purchasing this ultimate "cleaning machine" will be rewarded with the knowledge that you care enough to give your customer the maximum cleaning process available.

Using the RX-20 in your business will turn you into a professional carpet cleaning operator, rather than a professional laborer.

Once again, congratulations to another cleaning professional who will not wait for tomorrow, and will not have to compete against the RX-20. The competition will have to try and compete with you!

**An Evolution That Had To Happen**

Your new RX-20 has been precision engineered to bring you to the state-of-the-art in carpet cleaning. In the past, a wand technician had to supply all the pressure and motion to do the cleaning. The RX-20's weight distribution and rotary motion enable the technician to maneuver the unit easily with less fatigue and without back strain.

The RX-20's electric motor drives its precision transmission which, in turn, rotates the star assembly. Cleaning solution is injected through the center of the gearbox shaft directly to the five spray jets. Soiled solution is then extracted from the carpet by five cleaning heads and drawn through the aluminum exhaust manifold to your cleaning system's recovery tank.

**NOTE:** The operating temperature and pressure of the cleaning solution as well as the vacuum power depends entirely on the type of cleaning system you use.

**Construction**

The base, exhaust manifolds, handle, gearbox housing and cleaning heads are all cast or molded aluminum. Other parts are either metal or high impact plastic.

High Speed RX-20 High Speed CMX-20	High Speed RX-20 High Speed CMX-20	Length: 23"	23"	Base Width: 15"	15"	Height: 43"	43"	Weight: 72 lbs	70 lbs	Motor: 115 V, 1/2 HP TEFC	115 V, 1/2 HP TEFC	Gearbox: 1140 RPM Input 85 RPM Output Permanently Lubricated Helical Gear Drive	1725 RPM Input 130 RPM Output Permanently Lubricated Helical Gear Drive	Oil Capacity: 14 oz	14 oz
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## Machine Specifications

# Assembly Instructions

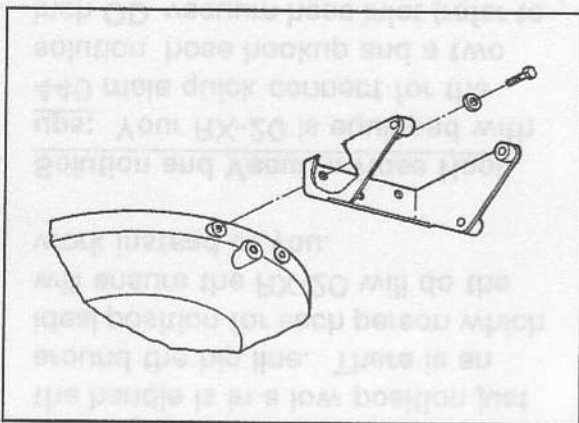
If you purchased a High Speed RX-20, it may require assembling if it was shipped in two separate boxes.

To assemble:  
a) With the three bolts provided, attach the handle to the base using a 9/16" wrench. (see illustration to below).

b) Next attach the stainless steel hose to the rotary union using 7/16" and 1/2" wrenches.

c) Next attach the 2" vacuum hose to the base and handle using the hose clamps provided.

d) Next plug the male and female electrical connections together.



To prepare your machine for use, follow these instructions:

a) Remove the machine from the packaging. Inspect the machine carefully for any damage that may have occurred during shipping. If any oil spillage is noted be sure to check the gearbox lubricant level (see instructions).

b) Now attach the star assembly to the base. Lean the machine back and rest it on the handle. Thread the star assembly onto the exposed shaft remembering to go in a counter-clockwise direction.

**Important:** Remove the solid shipping plug from the top of the gearbox and replace it with the vented plug provided before operating the machine.  
Your machine is now ready to operate.

# Operation

**IMPORTANT:** The vacuum hose must be in good condition to ensure maximum airflow. If you do not have a 440 female quick connect and can not find it locally, it can be ordered from the HydrMaster Parts Department. Call (206) 775-7276 and request part # 052-051 (440 QC).

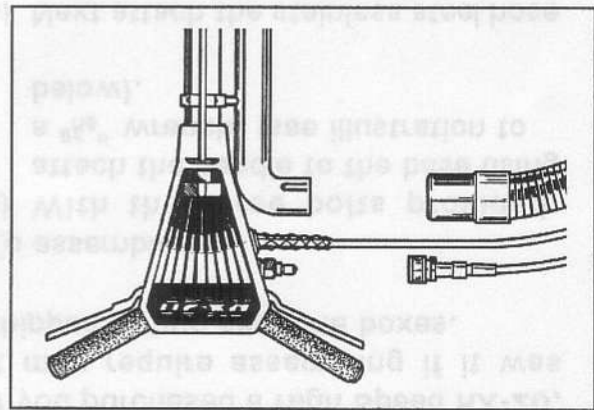
**3a. Electrical Cord Hook Up (Regular RX-20):** The 50 foot electrical cord on your RX-20 is a detachable

three-prong grounded line requiring a three-prong, 15 amp receptacle. A three-prong to two-prong adapter may be used, providing its ground wire is properly attached to a grounded terminal.

◆ CAUTION ◆

**Do not, under any circumstances, remove the ground prong from your RX-20 power cord. Serious injury or death may result.** To connect the power cord to the unit, insert the male twist-lock plug (from the unit) into the female end (on the power cord) and twist until they are securely locked together.

**3b. Electrical Cord Hook Up (High Speed RX-20):** The 50 foot electrical cord on your RX-20 is a permanently attached, three-prong grounded line requiring a three-prong, 15 amp receptacle.



Preparation

**1. Handle Adjustment:** Loosen the adjustment knob located below the RX-20 label (turn counter-clockwise to loosen, clockwise to tighten). Adjust the handle to a comfortable height. Several adjustments may be needed before a desirable operating position is found.

**NOTE:** Most technicians have found better control and less fatigue when the handle is in a low position just around the hip line. There is an ideal position for each person which will ensure the RX-20 will do the work instead of you.

**2. Solution and Vacuum Hose Hook ups:** Your RX-20 is equipped with 440 male quick connect for the solution hose hookup and a two inch OD vacuum hose inlet (refer to the above illustration). A solution hose with a 440 female quick connect is required. The vacuum inlet requires a two inch ID vacuum hose for proper air flow with a truck mounted system.

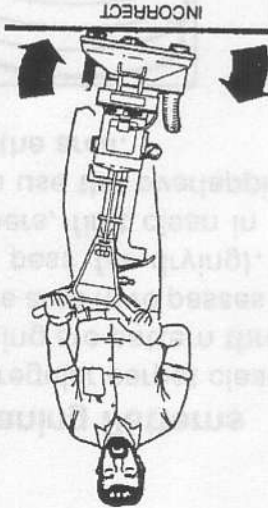
Do not tilt machine sideways while moving forward and backward. A loss of control may result in damage to the unit or location.

Once you have become familiar with the speed and movement of the machine, practice making it hover in one spot. (The hovering maneuver is useful for removing stubborn stains, as well as removing furniture indentations.)

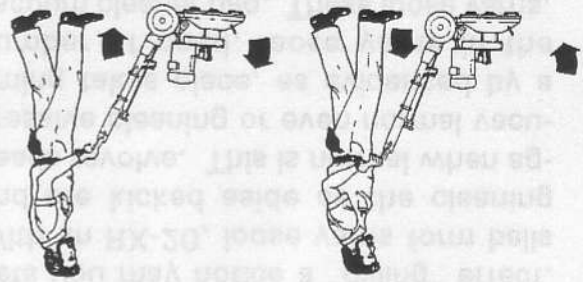
**◆ CAUTION ◆**

Do not operate your RX-20 on dry carpets. The friction generated by the revolving cleaning heads may damage fibers in the carpet.

To move forward and backward, position the handle so that the unit remains a stationary, then push forward or pull back. To familiarize yourself with your RX-20, practice on an open carpeted area. Depress both the solution trigger and motor trigger and move the RX-20 slowly in a three to five foot arc, as shown in Cleaning Patterns on the following page.



**2. Maneuvering Your RX-20:** Your RX-20 maneuvers like a rotary floor machine. To move the RX-20 to the right, lift the handle slightly. The more you lift or lower the handle, the faster the RX-20 will move.



**1. Control Functions:** There are control triggers located on each side of the handle under the rubber hand grips. As you operate the RX-20, the trigger on your right-hand side controls the electric motor that drives the cleaning heads. On the left hand side, the trigger controls the high pressure solution spray. The air flows constantly while the RX-20 is in operation.

**Operating Instructions**

Do not, under any circumstances, remove the ground prong from your RX-20 power cord. Serious injury or death may result

**◆ CAUTION ◆**

A three-prong to two-prong adapter may be used providing its ground wire is properly attached to a grounded terminal.

# Cleaning Information

2. DO NOT operate your RX-20 on hardwood floors.

3. DO NOT operate your RX-20 over loose or unraveled carpet seams.

The cleaning head may catch and cause further damage.

4. DO NOT operate your RX-20 on concrete floors. It will develop sharp edges on the extraction heads that will damage carpet fibers.

5. DO NOT clean over the edge of a loose carpet. Instead, clean only up to the edge. Damage may occur should the extraction heads catch the loose carpet.

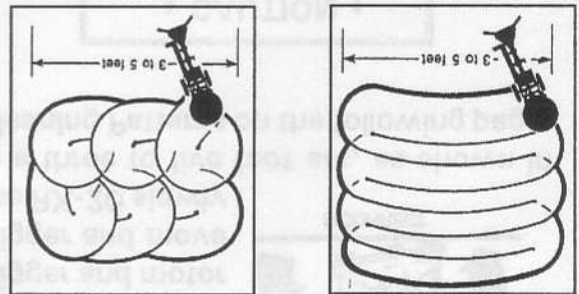
## Special Information

During the cleaning of some plush carpets you may notice a "pilling" effect.

With an RX-20, loose yarns form balls and are kicked aside as the cleaning heads revolve. This is normal when aggressive cleaning or even normal vacuuming takes place, as evidenced by a number of dead, loose yarns in the vacuum cleaner bag. These loose yarns, in most cases, are short staple yarns or filler yarns used to give the carpet a denser appearance. Because your RX-20 weighs approximately 90 pounds and rests on five four-inch cleaning heads, the yarns are not sucked up into the vacuum cleaner or old-style cleaning wand.

## Cleaning Patterns

For regular carpet cleaning use an overlapping arc pattern three times over the same area (two passes with solution and one pass for drying). When cleaning carpets, first clean in circular pattern, then use the overlapping arc pattern to dry the area.



**Note:** Dirtiest areas may require two or more cleaning passes. Using either pattern, you should develop a comfortable rhythm. To obtain maximum performance from your RX-20, move it slowly and deliberately with a 50% overlap, giving it time to clean and extract. (Unlike a manual wand, the RX-20 is doing the work you had to do in the past) A steady pace rather than a frenzied one will increase efficiency and production and decrease fatigue.

## The Following Cautions Should Be Observed While Cleaning:

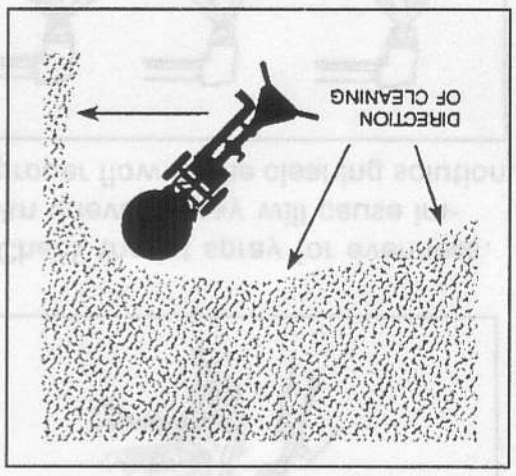
1. DO NOT operate your RX-20 over metal floor moldings. Damage to both the molding and the cleaning head will result.



The RX-20 has been very successful in restoring badly matted traffic lanes in front of doorways and sofas. Even pivot areas can be brought back to life again, in most cases. "Cornrowing" in hallways can also be eliminated with minimal effort.

The RX-20 may be used in a variety of ways. It is especially useful in confined areas such as hallways, closets, and small rooms. The RX-20 is a very aggressive carpet cleaning power head and will leave the carpet with a freshly-cleaned appearance. The carpet should be brushed or groomed after the cleaning process to remove any swirl marks left behind.

A. Most cleaners customarily clean their way out of an area or room. With the RX-20, it is possible to clean into an area or room, as shown in the illustration below, so that the hoses are dragged behind you during the cleaning process rather than kicked out of the way as you back out of an area. The "cleaning into" method works especially well in hallways or confined areas



B. The RX-20 is a very aggressive carpet cleaning power head and will leave the carpet with a freshly-cleaned appearance. The carpet should be brushed or groomed after the cleaning process to remove any swirl marks left behind.

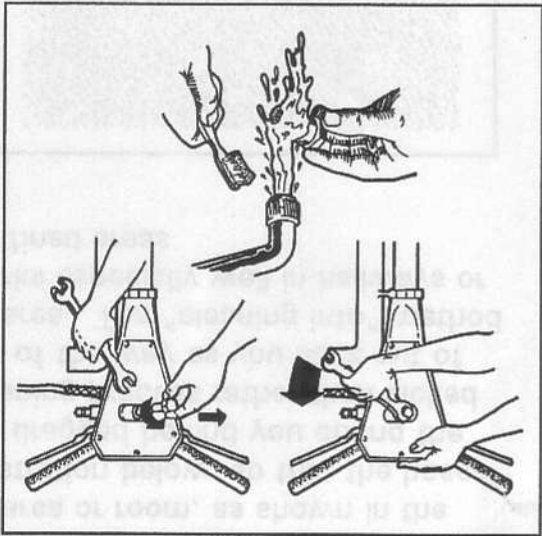
◆ CAUTION ◆

On older, rubberbacked, glued down carpets that may be delaminating with age, the RX-20 may cause further delamination. When in doubt, DO NOT use your RX20.

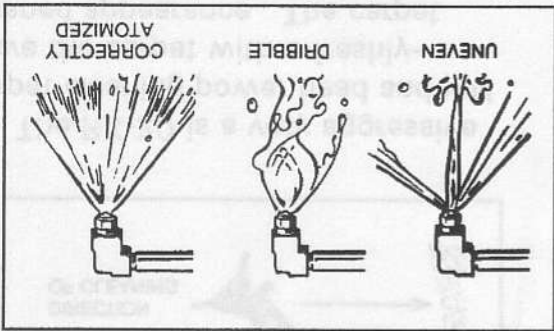
**Cleaning Hints**

# Machine Maintenance

4. Remove the in-line solution filter screen by unscrewing the 7/8 inch hex nut protruding from the back of the handle. Rinse under water to remove debris. If necessary, use a toothbrush to remove stubborn particles.



5. Check the jet spray for evenness. An uneven spray will cause improper flow of the cleaning solution.



6. Remove the cleaning head. It unscrews in the same direction it turns during operation (or clockwise when looking at it from the under side). Once you have loosened the

Good care and regular maintenance of your RX-20 will result in a long, dependable life for the unit. Keep in mind that your RX-20 will be in full view of your customer. An RX-20 that is dirty and unkempt in appearance can cause your image to suffer. You are offering your customer the latest in cleaning technology. Therefore, it is important that your company image reflect your desire to give your customer THE BEST.

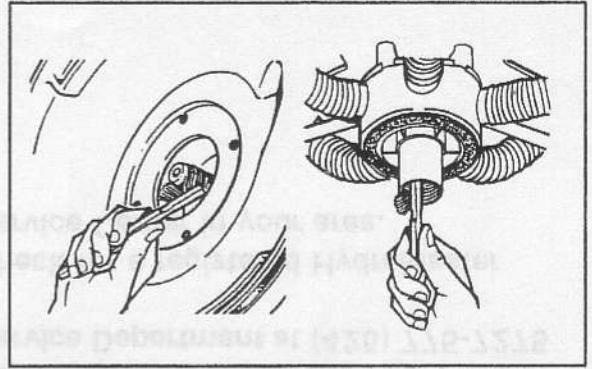
The surface finish on your RX-20 is a durable, baked on epoxy coating and is easily cleaned with a damp cloth. To further protect the finish, a light coat of good silicon base polish should be applied periodically.

Lubrication and maintenance play a key role in the life of your RX-20. Hence, the following daily and periodic maintenance steps must be followed. Train yourself to maintain your unit on a regular schedule until it becomes habitual.

## Daily Maintenance

1. Inspect the power cord for cuts, breaks, etc. Repair as needed.
2. Inspect the vacuum hoses for breaks or tears. Repair or replace as necessary.
3. Visually inspect your RX-20 for water leaks, damage to the cleaning heads, etc. Repair as necessary.

8. Lubricate the felt vacuum seal on top of the hub with a quality,



7. Clean off any debris that may have accumulated on the gearbox shaft or the inside threaded bore of the hub. An accumulation of debris here, if not removed, may damage the gearbox oil seal. This will result in loss of oil in the gearbox. If the gearbox is operated without oil, severe damage may occur.

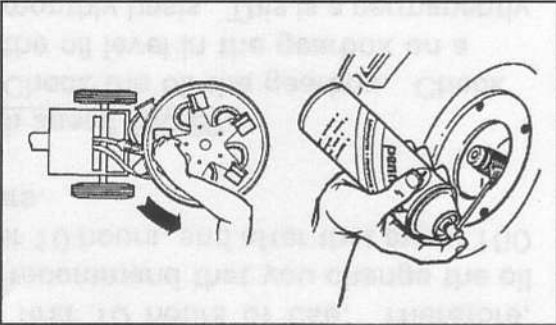
◆ CAUTION ◆

To prevent the gearbox from turning, the output shaft will accept a 5/8 inch wrench just below the rotary union. Wash the cleaning heads and shroud assembly with a garden hose, being careful not to wet the electric motor (lint buildup will restrict proper airflow and prolong drying time).

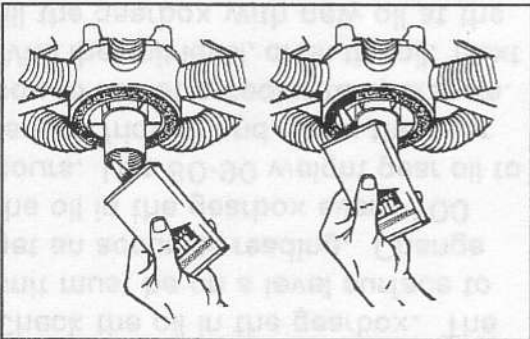


assembly, spin it off with your hands. If the cleaning head is difficult to remove, you may use a 3/4 inch socket wrench on the exposed center nut.

**IMPORTANT:** While rotating the vacuum head assembly in the counter-clockwise position, make sure that it spins freely all the way down. If it begins to require the slightest finger tip pressure, unscrew it and brush off the threads. All it takes is the slightest grain of dirt or sand to obstruct the threads. If you turn too far onto a grain of dirt, the hub may become locked onto the shaft of the gearbox.



9. Coat the shaft with Pennz-Guard or a similar lubricant. Reinstall the vacuum head assembly onto the shaft by rotating it counter-clockwise.



30 weight SAE motor oil. Also, put a few drops into the hub threads.

**Periodic Maintenance**

**Regular RX-20 only:**

Check the oil in the gearbox. The unit must be on a level surface to get an accurate reading. Change the oil in the gearbox every 100 hours. Use 80-90 weight gear oil to reduce friction and allow the gearbox to run at a cooler temperature. With the unit level, drain the oil. Next fill the gearbox with new oil at the oil port on the front until it dribbles out of the inspection port.

**NOTE:** Normal wear and tear on your new gearbox will cause small amounts of metal splinters to rub loose during the first 10 hours of use. Therefore, we recommend that you change the oil after 10 hours, and after that every 100 hours.

**High speed RX-20:**

Check the oil in the gearbox. Check the oil level in the gearbox on a monthly basis. This is a permanently lubricated gearbox. You do not need to change the oil. However, maintaining the proper oil level is important. To check the oil level, remove the vent plug and look into the gearbox. Turn the star until you can see the inspection hole in the gear. With the RX-20 sitting flat on a table or the floor, the oil level should be up to, but not above, the middle of the gear. If oil needs to be added, use a quality 80-90 weight gear oil.

**NOTE:** When checking the oil level in the gearbox, you can use a toothpick as a dip stick. The oil level should read 3/8th of an inch.

**Transport and/or Storage**

Whenever your RX-20 is transported or stored, it is recommended that the cleaning head be removed. The machine will then sit flat on the floor and remain more stable, especially during transport.

**Freeze Warning and Protection**

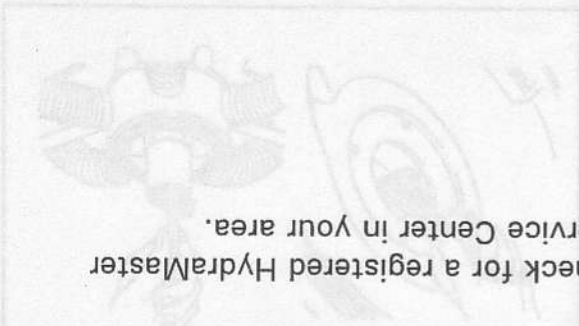
Your RX-20 can sustain damage from freezing, as can any equipment that functions with the use of water. Care must be taken to protect this tool from freezing just as you do your other equipment. To protect it from freezing, simply blow air from a gas station air hose through the solution quick connect with the valve open. This will blow all water from the valve, solution line, rotary union and jet assembly. Open and close the valve several times to ensure that all water is removed.

**Parts and Assemblies**

HydraMaster has every part in stock. For parts ordering or servicing call:

**Parts Department at (425) 775-7276 or Service Department at (425) 775-7275**

Check for a registered HydraMaster Service Center in your area.



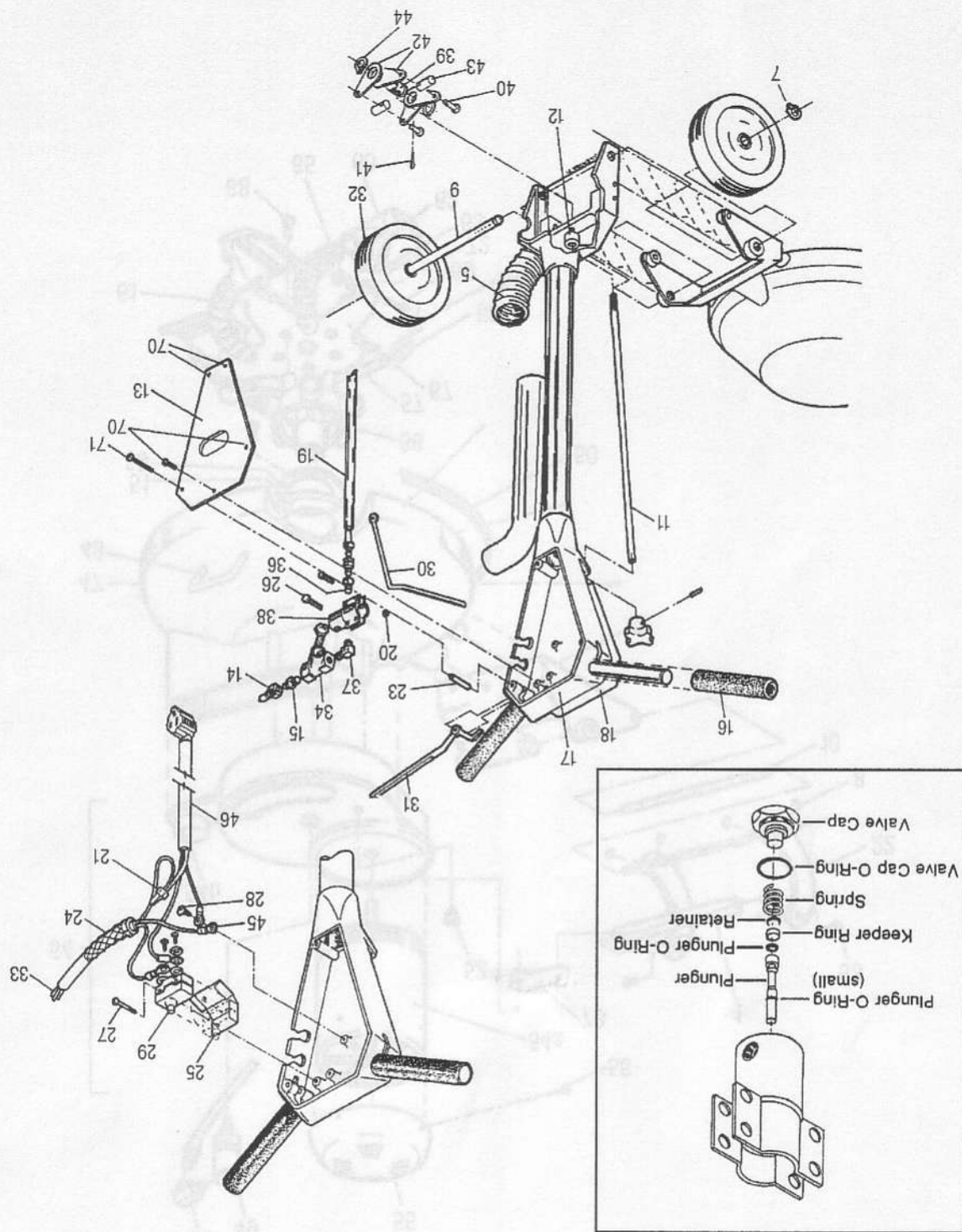


Figure 1 High Speed Handle Assembly

# Machine Assembly Parts

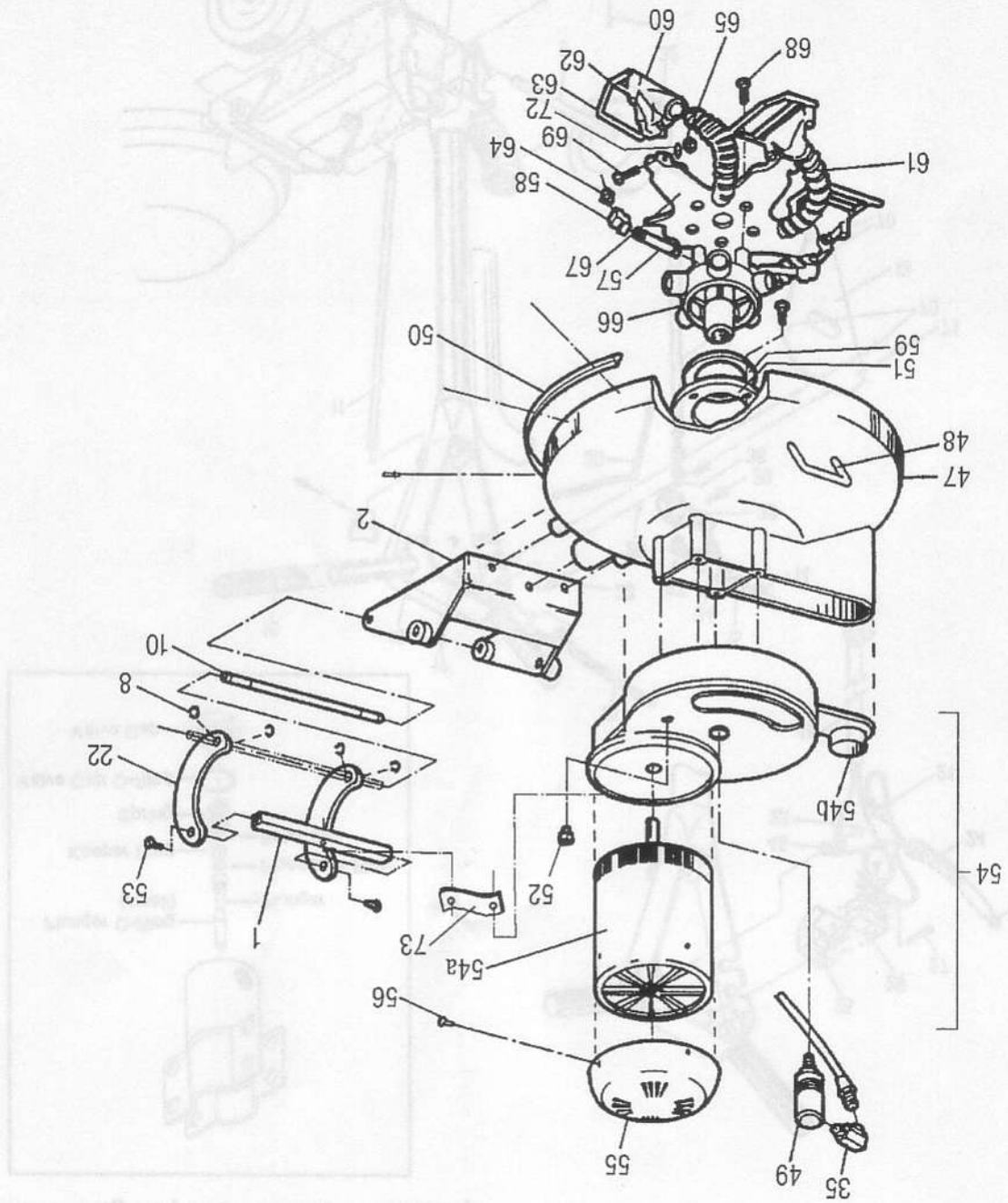


Figure 2 High Speed Base Assembly

RX-20 High Speed Parts List

ITEM PART NO DESCRIPTION QTY

1 000-015-066 Bracket, RX-20 Hood Wrinkle Black 1

2 000-015-139 Bracket, HI Speed RX Handle Brace 1

5 000-068-040 Hose, Base Out - Manifold 1

7 000-139-009 Ring, Snap Ring (E-Clip) x 1/2" 2

8 000-139-010 Ring, Snap Ring (E-Clip) x 5/16" 4

9 000-141-004 Axle, HI Speed RX Wheel 1

10 000-141-005 Rod, HI Speed RX-20 Handle Arc 1

11 000-141-006 Rod Assy, HI Speed RX Handle Adjusting 1

12 000-020-004 Collar, 3/8" Set 1

13 000-041-013 Cover, Handle Access 1

14 000-052-050 Quick Connect, 440 Male with Viton 1

15 000-052-071 Nipple, 1/2" Brass Hex 1

16 000-061-001 Handle, Foam Grip 2

17 000-061-017 Handle, HI Speed RX-20 1

18 000-081-001 Label, RX-20 Machine (3 pcs set) 1

19 000-068-175 Hose, Solution Valve to Rotary Union 1

20 000-094-010 Nut 1/2" s/s Hex 1

21 000-094-021 Nut, Wire - Yellow 1

22 000-107-096 Handle Arc 2

23 000-107-103 Trigger Pivot 1

24 000-108-012 Protector, Power Cord Relief Grip 1

25 000-108-014 Shield, RX-20 Micro Switch 1

26 000-143-002 Screw, 1/2" x 1" HHC s/s 3

27 000-143-048 Screw, 6-32 x 1" Rnd HD Mach s/s 2

28 000-143-336 Screw, 10-32 x 1/4" s/s Pan Head 1

29 000-157-032 Switch, Micro 1

30 000-167-009 Trigger, o/s RX-20 Brass Solution Valve 1

31 000-167-010 Trigger, RX-20 Power 1

32 000-177-001 Wheel, 8" HI Speed RX-20 2

33 000-178-004 Cord, 14/3 x 50' Gray - Power 1

34 000-049-033 Filter, 3/8" Inline Y 1

35 000-052-001 2M - 2UFS 1

ITEM PART NO DESCRIPTION QTY

36	000-052-059	Bushing, 1/4 M x 1/8 F Brass	1
37	000-052-301	Elbow, 1/4" Male x 1/4" Male	1
38	000-169-058	Valve, s/s HM Solution	1
39	000-094-030	Nut, Adjusting	1
40	000-103-012	Pin, 1/4 x 7/8" Clevis	2
41	000-103-013	Pin, 3/32 x 1/2" s/s Cotter - RX	2
42	000-107-097	Link	4
43	000-107-101	Plunger	2
44	000-139-006	Ring, 5/8" Snap	2
45	000-037-016	Terminal, #10 Ring - 16 AWG	1
46	000-178-039	Cord, 14/3 x 6' Gray	1
47	000-006-009	Base, HI Speed RX-201	1
48	000-061-027	Handle, RX Express Base - Lift	1
49	000-052-276	Rotary Union, 1/8" NPT	1
50	000-078-108	Kit, Roto Shroud Bumper and Rivet	1
51	000-105-008	Plate, Cast RX-20 Base - Seal	1
52	000-106-014	Plug, RX-20 Gearbox Vent	1
53	000-143-166	Screw, 10-24 x 3/8" s/s BTN HD Cap	2
54	604-052-005	HI Spd RX-20 Motor/Gearbox Assy	1
54A	604-052-006	HI Spd RX-20 Elect Motor Assy	1
54B	000-059-001	Gearbox Complete, Spur	1
54C	604-052-010	Elect. Motor Assy, WDR RX	1
55	000-041-123	Cover, 1/2 HP TEFC Motor	1
56	000-143-096	Screw, 3/8 16 x 3/4" s/s BTN HD	3
57	000-052-080	Nipple, 1/8" x 4" Brass	5
58	000-052-089	Elbow, 1/8" Brass Female	5
59	000-057-047	Gasket, RX-20 Felt Hub	1
60	000-064-012	Head, New RX Skid Assy Complete	5
61	000-068-174	Hose, Vac Hub/Skid	1
62	000-064-011	Head, New RX Cast Skid-Weldment	1
63	000-107-095	Skid Bottom, New Style RX Shoe	1
64	000-076-037	Jet, H 1/8VV 80015 SS-STD	5
Optional:	000-076-052	Jet, (1) 2 Piece Set Twist Out	5
	000-076-058	Jet, (1) 2 Piece Brass #8001	5





# Repair

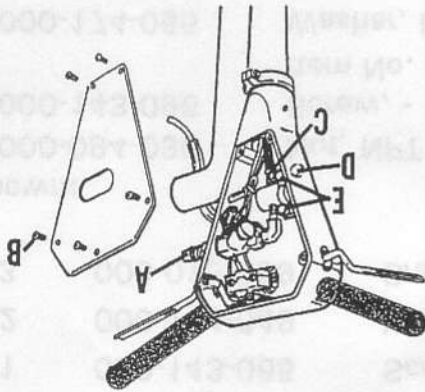
## High Pressure Valve Assembly:

The valve assembly's moving parts will eventually wear out it time. Its repair or replacement is a relatively simple operation.

1. Remove the 440 male quick connect (A) with a wrench.
2. Remove the five Allen head screws (B) in the back plate on the handle and lift the back panel off.
3. Disconnect the stainless steel hose (C) from the bottom of the valve assembly.
4. Remove the bolt (D) holding the trigger.
5. Remove the two bolts (E) holding the valve assembly in the handle and pull out.
6. The valve may now be rebuilt or re-placed.

♦ CAUTION ♦

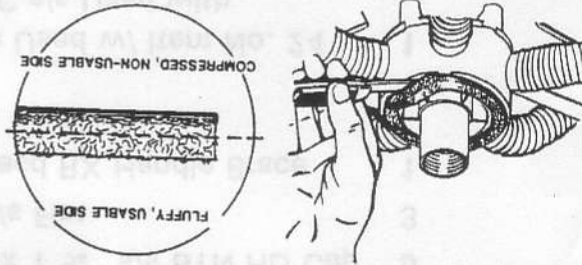
If the valve has been frozen, inspect it for leakage before reinstalling the back plate.



## Removal of Components

### Felt Vacuum Seal Replacement:

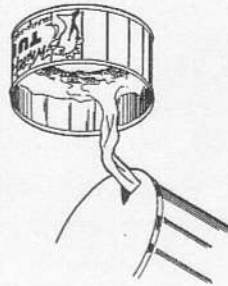
A worn or unlubricated seal will not form a proper seal. Lack of a proper seal will impair the vacuuming capabilities of the unit and therefore leave behind more water in the carpet than is desirable.



First, remove the vacuum head assembly as previously described. Using a pocket knife, carefully pry the seal up and lift it out. If the seal appears worn or glazed so that it will not lubricate well, try turning it over. If that does not work, or if it is damaged, replace it with a new one. We recommend changing the felt seal after 10 hours of use. Replace it with a spare, soaked seal. Press

the seal in place and saturate it with a quality 30 weight SAE motor oil. Always place the flattened, used seal in an oil bath to rejuvenate.

**NOTE:** A tuna fish can is the right size and shape and does not require a large amount of oil.) This seal and its condition play an important part in the optimum performance of your RX-20.



No.	Problem/Possible Cause	Solution
1.0	Low Vacuum Flow at the Cleaning Heads	
1.1	Hub not sealing properly.	Replace felt seal with a lubricated one.
1.2	Restricted air flow.	Remove jets and clear them of debris.
1.3	Low vacuum flow from power source.	Refer to Troubleshooting section of equipment manual.
2.0	Low Water Flow at Cleaning Heads (indicated by irregular Water Temperature)	
2.1	Restricted jets.	Remove jets and clear them of debris.
2.2	Clogged water strainer.	Remove water strainer and clean.
2.3	Kinked or clogged solution hose.	Remove hose. Repair or replace.
2.4	Cleaning hub not properly threaded to shaft.	Remove cleaning hub from shaft. Clean and rethread onto shaft.
3.0	Water Leak at Rotary Union	
3.1	Foreign matter in rotary union seal.	Dismantle rotary union. Clean. Reassemble and install.
4.0	Water Leak at Valve	
4.1	Ruptured plunger or valve o-ring.	Repair or replace damaged plunger, o-ring, seal. Check for freeze damage.

# Troubleshooting

No.	Problem/Possible Cause	Solution
5.0	Loss of Oil from Gearbox.	
5.1	Loose or ruptured oil seal. gearbox with oil.	Replace damaged oil seal. Refill
No.	Problem/Possible Cause	Solution
6.0	No Power.	
6.1	RX-20 wiring or power source. possible wiring or motor problems.	Have an electrician inspect unit for
6.2	Overload power source	Locate an unused power source.
6.3	Gearbox	Repair or replace gearbox
No.	Problem/Possible Cause	Solution
7.0	Head wobbles during operation.	
7.1	One leg of star bent.	Straighten star.

(continued on the following page...)

Except as stated in this section and in the preceding section and except as to title, there are no guarantees or warranties of merchantability, fitness, performance or otherwise, express, implied or statutory, and HydraMaster shall have no liability for consequential, incidental or other damages howsoever caused.

This warranty covers parts, as specified, and does not cover labor which may be necessary in completing repairs. HydraMaster's liability to Purchaser, whether in contract or in tort arising out of warranties, representation, instructions, or defects from any cause shall be limited to repairing or replacing the defective part or parts. To qualify for warranty coverage, defective parts must be returned to HydraMaster un- less and until HydraMaster has received payment in full for the warranted machine or part.

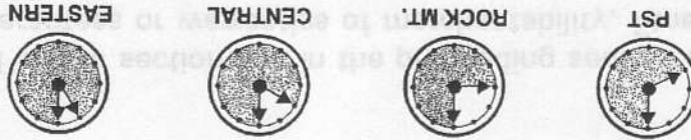
HydraMaster agrees, at its option, to repair at the point of shipment, or to replace without charge, any parts or parts of products of HydraMaster's manufac- ture, which within the specified warranty period shall be proved to HydraMaster's satisfaction to have been defective when shipped, provided the purchaser promptly notifies HydraMaster, in writing, of such alleged defect. HydraMaster will pay all freight and transportation charges within the United States, via normal ground ship- ping means, for replacement of parts covered under this warranty.

HydraMaster warrants Rotary Extractor machines of its manufacture to be free from defects in material and workmanship if properly installed, maintained, and operated under normal conditions with competent supervision. No person, agent, representative or dealer is authorized to give any warranties on behalf of Hydra- Master, nor to assume for HydraMaster any other liability in connection with any HydraMaster products. This warranty shall extend to the original purchaser of said equipment for the periods listed below from date of installation. If repairs or replace- ments are made by the Purchaser without HydraMaster's written consent, HydraMaster's warranty shall cease to be in effect.

Machinery, equipment and accessories furnished by HydraMaster, but manufac- tured by others, are warranted only to the extent of the original manufacturer's warranty to HydraMaster unless otherwise specified in the listing below.

# Limited Warranty Plan

11015 47th Avenue W. • Mukilteo, WA 98275



Monday through Friday • 8:00 am To 5:00 pm PST  
Parts: (425) 775-7276  
Service: (425) 775-7275  
Parts and Service FAX: (800) 426-4225

For service, contact the distributor where the machine was purchased or call our Customer Service Department:

Frame, Handle, Body .....	3 years
Gearbox .....	1 year
Motor .....	1 year
Valves, Filters, Hoses .....	1 year

Coverage Schedule

Records of periodic maintenance must be kept and copies may be required to be furnished to HydraMaster before this warranty is honored.

All recommended maintenance must be performed by competent service personnel.

Deposits and buildup in the water or chemical systems due to hardness in the water used or chemicals which results in deposits, will VOID all warranties on affected components.

Freezing of any water or chemical related component will VOID all warranties on water or chemical related components, internal or external, of this equipment.

All components not specifically referenced in the schedule below are covered under this warranty for a period of one (1) year, excepting those parts which are considered, by HydraMaster, to be expendable in normal use, including but not limited to paint, labels and other cosmetic parts or features.

# CMX-20 Parts List

Part No. Description Retail Price

000-015-066	Bracket, RX-20 Hood Wrinkle Black	\$ 9.95
000-015-139	Bracket, Hi Speed RX Handle Brace	92.95
000-068-040	Hose, Base Out - Manifold	23.95
000-139-009	Ring, Snap Ring (E-Clip) x 1/2"	1.19
000-139-010	Ring, Snap Ring (E-Clip) x 5/16"	0.49
000-141-004	Axle, Hi Speed RX Wheel	13.95
000-141-005	Rod, Hi Speed RX-20 Handle Arc	17.95
000-141-006	Rod Assy, Hi Speed RX Handle Adjusting	28.95
000-020-004	Collar, 3/8" Set	1.49
000-041-013	Cover, Handle Access	19.95
000-052-050	Quick Connect, 440 Male with Viton	6.95
000-052-071	Nipple, 1/4 Brass Hex	0.89
000-061-001	Handle, Foam Grip	2.95
000-061-017	Handle, Hi Speed RX-20	264.95
000-081-001	Label, RX-20 Machine (3 pc set)	17.95
000-068-175	Hose, Solution Valve to Rotary Union	37.95
000-094-010	Nut 1/4-20 s/s Hex	0.14
000-094-021	Nut, Wire - Yellow	0.49
000-107-096	Handle Arc	13.95
000-107-103	Trigger Pivot	2.95
000-108-012	Protector, Power Cord Relief Grip	2.49
000-108-014	Shield, RX-20 Micro Switch	0.89
000-143-002	Screw, 1/4-20 x 1" HHC s/s	0.49
000-143-048	Screw, 6-32 x 1" Rnd HD Mach s/s	1.19
000-143-336	Screw, 10-32 x 1/4" s/s Pan Head	0.13
000-157-032	Switch, Micro	13.95
000-167-009	Trigger, o/s RX-20 Brass Solution Valve	12.95
000-167-010	Trigger, RX-20 Power	11.95
000-177-001	Wheel, 8" Hi Speed RX-20	13.95
000-178-004	Cord, 14/3 x 50' Gray - Power	29.95
000-049-033	Filter, 3/8" Inline Y	29.95
000-052-001	ZM - 2UFS	1.69
000-052-059	Bushing, 1/4 M x 1/8 F Brass	0.49
000-052-301	Elbow, 1/4" Male x 1/4" Male	5.69
000-169-058	Valve, s/s HM Solution	82.95
000-094-030	Nut, Adjusting	4.95
000-103-012	Pin, 1/4 x 7/8" Clevis	0.79
000-103-013	Pin, 3/32 x 1/2" s/s Cotter - RX	0.13
000-107-097	Link	2.29
000-107-101	Plunger	4.49

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9906-02 Doc Control 6/1/99

Part No.	Description	Retail Price
000-139-006	Ring, 5/8" Snap	\$ 0.17
000-037-016	Terminal, #10 Ring - 16 AWG	0.39
000-178-039	Cord, 14/3 x 6' Gray	11.49
000-006-009	Base, HI Speed RX-20	279.95
000-052-294	Rotary Union, Brass RX-20	109.95
000-078-108	Kit, Roto Shroud Bumper and Rivet	109.95
000-105-008	Plate, Cast RX-20 Base - Seal	10.95
000-106-014	Plug, RX-20 Gearbox Vent	10.95
604-052-005	HI Spd RX-20 Motor/Gearbox Assy	2.69
604-052-006	HI Spd RX-20 Elect Motor Assy	869.95
000-059-001	Gearbox Complete, Spur	329.95
000-041-123	Cover, 1/2 HP TEFC Motor	495.00
000-143-096	Screw, 3/8" x 16 x 3/4" s/s BTN HD	18.95
000-052-080	Nipple, 1/8" x 4" Brass	0.69
000-052-089	Elbow, 1/8" Brass Female	3.95
000-057-047	Gasket, RX-20 Felt Hub	1.19
000-064-012	Head, New RX Skid Assembly Complete	2.39
000-068-174	Hose, Vac Hub/Skid	59.95
000-064-011	Head, New RX Cast Skid-Weldment	4.95
000-107-095	Skid Bottom, New Style RX Shoe	31.95
000-076-037	Jet, H 1/8" V 80015 SS-STD	19.95
000-094-009	Nut, 5/16-18 s/s Nylock Half	7.95
000-107-020	Double Thread RX Vacuum Hub	0.21
000-107-089	S/S Heat Treated Star	60.95
000-143-012	Screw, 5/16-18 x 3/4" s/s HHC	99.95
000-143-162	Screw, 5/16 x 1" Stripper - 1/4-20 s/s	0.59
000-143-166	Screw, 10-24 x 3/8" s/s BTN HD Cap	2.49
000-143-065	Screw, 10-24 x 1 3/4" s/s BTN HD Cap	0.34
000-174-049	Washer, 5/16" s/s Flat	2.09
000-015-009	Bracket, HI Speed RX Handle Brace	0.17
000-094-036	Nut, 1/2" NPT Pipe Plastic	11.95
000-143-096	Screw, 3/8" - 16 x 1" HHC s/s	1.59
000-174-055	Washer, Latch Pivot	0.69
000-174-057	Washer, 3/8" s/s Lock	0.21

All prices quoted F.O.B. Factory, Mukilteo, WA. Prices subject to change without notice.



# RX-20 Parts List

Part No.	Description	Retail Price
000-015-066	Bracket, RX-20 Hood Winkie Black	\$ 9.95
000-015-139	Bracket, HI Speed RX Handle Brace	92.95
000-068-040	Hose, Base Out - Manifold	23.95
000-139-009	Ring, Snap Ring (E-Clip) x 1/2"	1.19
000-139-010	Ring, Snap Ring (E-Clip) x 5/16"	0.49
000-141-004	Axle, HI Speed RX Wheel	13.95
000-141-005	Rod, HI Speed RX-20 Handle Arc	17.95
000-141-006	Rod Assy, HI Speed RX Handle Adjusting	28.95
000-020-004	Collar, 3/8" Set	1.49
000-041-013	Cover, Handle Access	19.95
000-052-050	Quick Connect, 440 Male with Viton	6.95
000-052-071	Nipple, 1/4 Brass Hex	0.89
000-061-001	Handle, Foam Grip	2.95
000-061-017	Handle, HI Speed RX-20	264.95
000-081-001	Label, RX-20 Machine (3 pc set)	17.95
000-068-175	Hose, Solution Valve to Rotary Union	37.95
000-094-010	Nut 1/4-20 s/s Hex	0.14
000-094-021	Nut, Wire - Yellow	0.49
000-107-096	Handle Arc	13.95
000-107-103	Trigger Pivot	2.95
000-108-012	Protector, Power Cord Relief Grip	2.49
000-108-014	Shield, RX-20 Micro Switch	0.89
000-143-002	Screw, 1/4-20 x 1" HHC s/s	0.49
000-143-048	Screw, 6-32 x 1" Rnd HD Mach s/s	1.19
000-143-336	Screw, 10-32 x 1/4" s/s Pan Head	0.13
000-157-032	Switch, Micro	13.95
000-167-009	Trigger, o/s RX-20 Brass Solution Valve	12.95
000-167-010	Trigger, RX-20 Power	11.95
000-177-001	Wheel, 8" HI Speed RX-20	13.95
000-178-004	Cord, 14/3 x 50' Gray - Power	29.95
000-049-033	Filter, 3/8" Inline Y	29.95
000-052-001	2M - 2UFS	1.69
000-052-059	Bushing, 1/4 M x 1/8 F Brass	0.49
000-052-301	Elbow, 1/4" Male x 1/4" Male	5.69
000-169-058	Valve, s/s HM Solution	82.95
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000-103-013	Pin, 3/32 x 1/2" s/s Cotter - RX	0.13
000-107-097	Link	2.29
000-107-101	Plunger	4.49



Part No.	Description	Retail Price
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000-037-016	Terminal, #10 Ring - 16 AWG	0.39
000-178-039	Cord, 14/3 x 6' Gray	11.49
000-006-009	Base, Hi Speed RX-20	279.95
000-052-294	Rotary Union, Brass RX-20	109.95
000-078-108	Kit, Roto Shroud Bumper and Rivet	10.95
000-105-008	Plate, Cast RX-20 Base - Seal	10.95
000-106-014	Plug, RX-20 Gearbox Vent	2.69
604-052-005	Hi Spd RX-20 Motor/Gearbox Assy	869.95
604-052-006	Hi Spd RX-20 Elect Motor Assy	329.95
000-059-001	Gearbox Complete, Spur	495.00
000-041-123	Cover, 1/2 HP TEFC Motor	18.95
000-143-096	Screw, 3/8 16 x 3/4" s/s BTN HD	0.69
000-052-080	Nipple, 1/8" x 4" Brass	3.95
000-052-089	Elbow, 1/8" Brass Female	1.19
000-057-047	Gasket, RX-20 Felt Hub	2.39
000-064-012	Head, New RX Skid Assembly Complete	59.95
000-068-174	Hose, Vac Hub/Skid	4.95
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000-107-095	Skid Bottom, New Style RX Shoe	19.95
000-076-037	Jet, H 1/8V 80015 SS-STD	7.95
000-094-009	Nut, 5/16-18 s/s Nylock Half	0.21
000-107-020	Double Thread RX Vacuum Hub	60.95
000-107-089	S/S Heat Treated Star	99.95
000-143-012	Screw, 5/16-18 x 3/4" s/s HHC	0.59
000-143-162	Screw, 5/16 x 1" Stripper - 1/4-20 s/s	2.49
000-143-166	Screw, 10-24 x 3/8" s/s BTN HD Cap	0.34
000-143-065	Screw, 10-24 x 1 1/4" s/s BTN HD Cap	2.09
000-174-049	Washer, 5/16" s/s Flat	0.17
000-015-009	Bracket, Hi Speed RX Handle Brace	11.95
000-094-036	Nut, 1/2" NPT Pipe Plastic	1.59
000-143-096	Screw, 3/8 - 16 x 1" HHC s/s	0.69
000-174-055	Washer, Latch Pivot	0.21
000-174-057	Washer, 3/8" s/s Lock	0.07

All prices quoted F.O.B. Factory, Mukilteo, WA. Prices subject to change without notice.

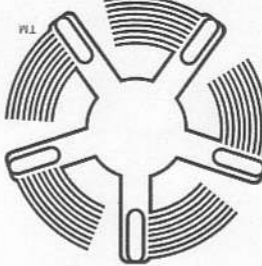
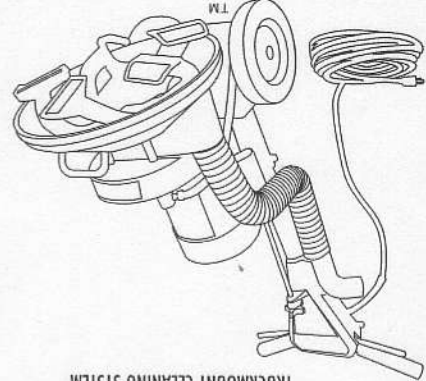
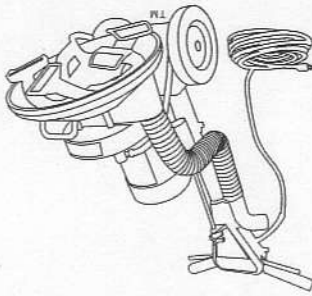
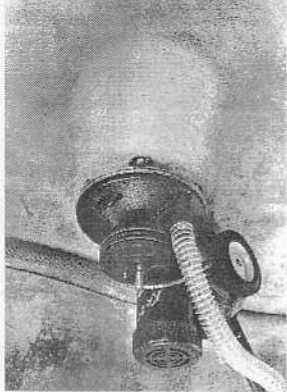
# RK-20

Rotary Jet Extractor

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When reproducing the HydrMaster trademark to show use of a HydrMaster Cleaning System, the words "Using the HydrMaster Truckmount Carpet Cleaning System" must accompany the entire HydrMaster trademark. It is important that reproduction of the mark is not misleading, whereas your customer feels you are, in fact, a part of HydrMaster Corporation. Reproduction of portions, changes to, or additions to the HydrMaster trademark is strictly prohibited. Provided below are cuts you may use for reproduction in brochures, newspaper ads, yellow pages, etc. These variations, and only these variations, must be used when reproducing the HydrMaster trademark. We apologize for any inconvenience this step may cause you. However, it is imperative that we maintain a control of our marks and therefore urge that you cooperate to the fullest extent.

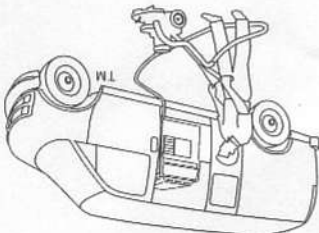
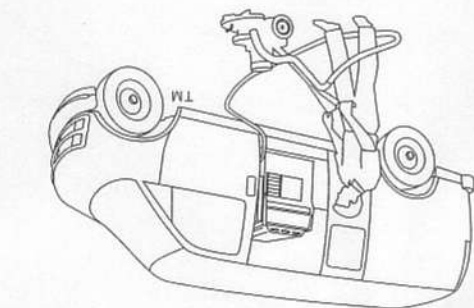
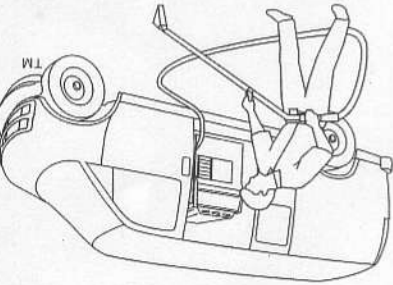
The patent and trademark counsel informs HydrMaster Corporation that it is imperative to exercise careful control over utilization and style of our mark so that we do not inadvertently dilute or abandon the mark.

**REGULATIONS FOR PREPRINTING OR DISPLAYING THE HYDRAMASTER TRADEMARK**

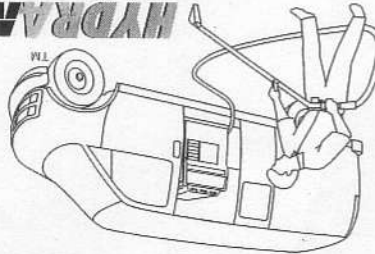
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Rotary Jet Extractor

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