NOTE: Parts are no longer available for this tool.

The manual will continue on the next page.

SIOUX TOOLS INC.
2901 FLOYD BOULEVARD ■ SIOUX CITY, IOWA 51102 ■

Form A881
Dated 2/86

PARTS LIST
INSTRUCTIONS

Hi-Pressure Washer
No. 762

Introduction

Read all of the instructions before starting the unit. Mistakes can be avoided when you understand the washer. Refer to the exploded view drawing and parts list to familiarize yourself with the unit. ASSEMBLY tells you how to put your washer together. OPERATION tells you how to use your washer correctly and safely.

Assembly

MOST OF THE WASHER HAS BEEN PUT TOGETHER AT THE FACTORY. Use the following directions to complete the assembly.

1. Bolt the handle to the frame using the (4) 1/4" x 1-1/2" hex screws, lock washers, and hex nuts provided.
2. To assemble wheels follow parts list drawing. Tighten set screws in nylon spacers to prevent wheels from moving inward and rubbing on tank.

Operation

1. The high pressure washer is designed to be connected to a clean water source such as a garden hose. Inlet hose should be sufficient to supply a minimum of 3 gallons per minute at the pump. Connect your garden hose to the inlet connection on the pressure washer.

IMPORTANT: The inlet hose should be sized for proper flow rate to the pump with no unnecessary restrictions that can cause cavitation. Cavitation can cause premature failure of the pump. **Do not use:** Acids, alkalines, or abrasive fluids in the pump. **Do not** run the pump dry for extended periods.

IMPORTANT: Before turning on water supply to unit be sure that you have locked off trigger on the hand gun. Turn on the water supply to the unit. Open trigger on hand gun and allow water to reach the hand gun nozzle. After all air is purged from liquid lines the washer should be fully primed.

WARNING: Before starting motor be sure that you have the hand gun in a locked off position and have it firmly grasped in your hand. If hand gun is on there may be a recoiling action that can cause personal injury or damage.

The high pressure washer is equipped with a pressure regulator/unloader valve. The regulator is factory set at 1000 P.S.I. maximum and may be adjusted downward if the operator desires. Lower-

ing of pressure may be achieved by loosening the lock nut and then turning the pressure adjusting nut counter clockwise or downward. Reverse of this procedure will increase pressure.

2. Follow the motor manufacturers' instructions. You may now start the motor. The electric motor rotates at 3450 R.P.M. Allow pump to run for a few minutes and during this time open and close hand gun several times. This procedure will purge any remaining air from the system.

3. The 3-way valve allows you to draw solutions from the tank by moving the handle towards the strainer.

4. Moving the 3-way valve handle half way will allow water to go through the valve and into the tank.

5. After use run pump dry for approximately 10 seconds to drain water from pump. This must be done before the washer or pump is exposed to freezing temperatures.

WARNING: READ THESE SAFETY INSTRUCTIONS COMPLETELY BEFORE ATTEMPTING TO START YOUR PRESSURE WASHER

WARNING

HIGH PRESSURE SPRAYS AND HOT LIQUID SPRAYS
CAN CAUSE SERIOUS BODILY INJURY

NEVER		• **Never allow children or unauthorized personnel to handle equipment.** • **Never put your hand or fingers in front of gun.** • **Never point gun at your body—or anyone else.** • **Never leave gun unattended without releasing pressure and engaging trigger lock.** • **Never use mechanical means to hold trigger in open position.**
BEFORE spraying and during spraying	**ALWAYS**	• **Before pulling trigger grasp gun firmly in *BOTH* hands.** • **Adopt proper body stance to anticipate high recoil force by spray gun.** • **Exercise care and caution when spraying.** • **Stop spraying before becoming fatigued.** • **When spraying hot liquids avoid hand or body contact with non-insulated parts of extension and inlet body of gun.**
BEFORE removing spray tip or nozzle, — or — attempting service or maintenance	**ALWAYS***	• **1. Shut off pump.** • **2. Discharge contents of gun to eliminate pressure.** • **3. Lock the gun trigger in "OFF" position by engaging trigger lock.**
	***NOTE: Also follow 1, 2 and 3 when discontinuing spraying operation.**	

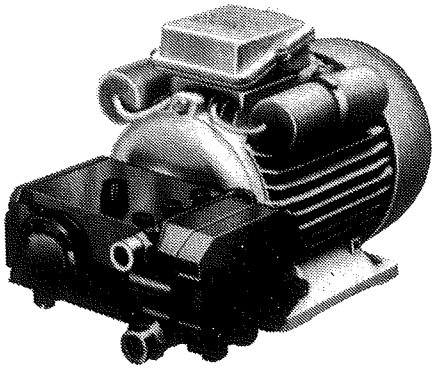
- **Follow the manufacturer's recommendations for maximum pressures, periodic cleaning, maintenance and parts replacement procedures.**
- **Do not operate the equipment if there are any leaks from spray gun, fittings, or hoses. High pressure leaks can penetrate skin causing serious injury.**

STAY SAFE!

CAUTION: **If skin is hit by sprayed liqued, . . . contact physician immediately because any skin penetration can cause permanent injury.**

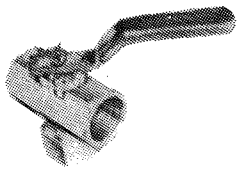
NOTE TO PHYSICIAN: **Injection into the skin is a serious, traumatic injury. Contact National Poison Control Center Network, 412-681-6669 for treatment regimen.**

COMPONENT PARTS

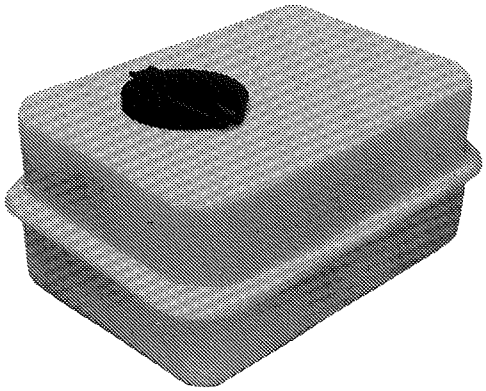


Electric Motor

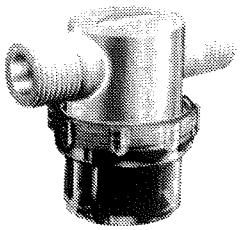
Handgun



3-Way Valve



Polyethylene Tank



Strainer

Engine-Pump

The 3 H.P. gas engine is preset at 3300 RPM at the factory. Add oil to the crankcase and gas to the tank. Pull the rope to start (choke when necessary) and press the metal tab against the spark plug to stop the engine. The pump is rated at 2-1/2 GPM and 1000 PSI max.

Unloader Valve

The unloader valve is a component part of the pump and is factory set for 1000 PSI. Loosen the lock nut at the bottom and turn the brass hex nut (below the spring) downwards to decrease the pressure. Always tighten the lock nut once the desired pressure has been achieved.

Polyethylene Tank

The tank features a 5" diameter lid assembly. The tank has a separate drain outlet. Polyethylene tanks have very good chemical resistant qualities. However never use the tank for holding gasoline, kerosene, fuel oil, or any other petroleum distillate product. When not in use the tank should be stored in a dark dry place. This will prolong the life of the tank.

3-Way Valve

A 3-way brass ball valve is located beneath the pump and by the strainer. This valve controls the direction of the suction line flow. Pushing the handle towards the rear of the unit causes the solution to go from the tank to the pump. Pulling the handle forward changes the flow direction from the garden hose inlet to the pump.

Strainer

The strainer is the device that filters dirt and sediment from the solution. These particles would damage the pump cups and seals if the strainer did not trap them. Clean the strainer every time you add gas to the engine. Be sure the engine is not running. Turn the clear bowl clockwise to remove, clean the screen and check the seal. Carefully thread the bowl back onto the strainer top and tighten by hand only. If the strainer leaks, check the seal again, and replace if necessary.

Handgun

The pistol handgun has a barrel extention and a 15 degree flat spray tip. Squeeze the trigger to open the handgun and allow it to spray. when the trigger is released the handgun will shut off. A trigger lock behind the trigger prevents the handgun from spraying accidentally. You must set the lock and release it each time you use it.

Parts List
762 ELECTRIC

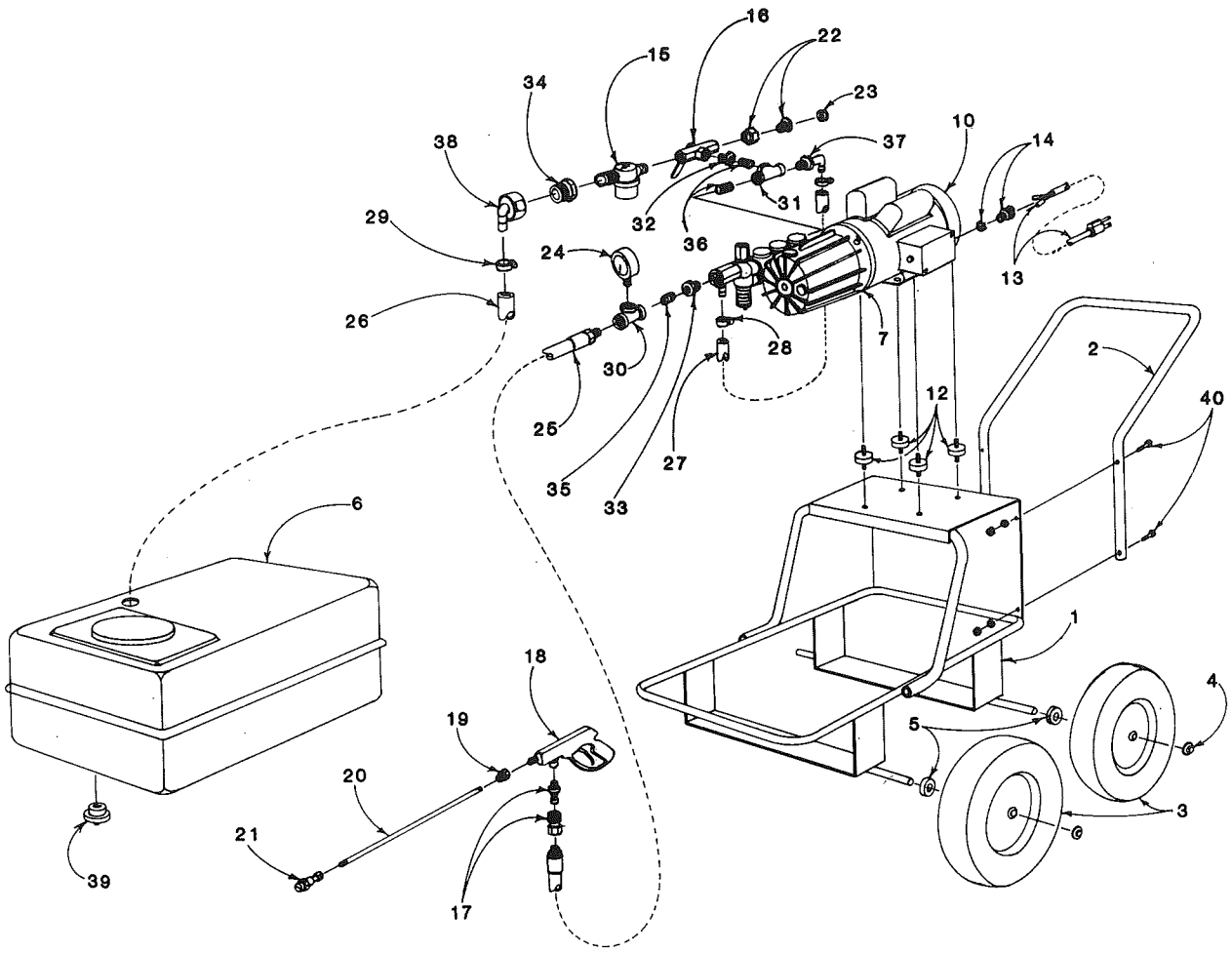


Figure	Part No.	Name
1	70275	Frame
2	70276	Handle
3	70277	Wheels
4	30780	Hub Cap (4)
5	70166	Nylon Spacer (4)
6	70278	Tank
7	70427	Pump (P-510)
10	70430	Electric Motor (1-1/2 H.P.)
12	70302	Motor Mount (4)
13	70431	Electric Cord—36 Ft.
14	70303	Cord Connector
15	70172	Nylon Strainer, 1/2"
16	70173	3-Way Ball Valve, 1/2"
17	70300	Brass Quick Coupler, 1/4"
18	70298	Handgun (30-1/4)
19	70176	Brass Adaptor, 1/8"
20	70299	Barrel Extension, 20"
21	70432	Nozzle (040)
22	70174	Hose Spud
23	70092	Hose Screen
24	70434	Pressure Gauge, 2000 #
25	70114	H.P. Hose Assembly (25 ft.)
26	70435	1/2" Yellow PVC Hose x 21"
27	70194	3/8"-1 Brd. Hose x 14"
28	30777	Hose Clamp (#25) (2)
29	30782	Hose Clamp (#29)
30	70436	Tee, 1/4" Galv.
31	70110	Tee, 3/8" Galv.
32	70289	Reducing Bushing 1/2-3/8 Galv.
33	70113	Reducing Bushing, 3/8-1/4 Galv.
34	70182	Nylon Red. Bushing, 3/4-1/2
35	70437	Steel Close Nip, 1/4"
36	70288	Steel Close Nip, 3/8" (2)
37	70438	Nylon Ell Hose Fitting, 3/8"-3/8"
38	70292	Nylon Ell Hose Fitting, 3/4"-1/2"
39	70301	Tank Drain Plug
40	70196	Hex Screw, 1/4" x 1-1/2" (4)
	70126	Lock Washer, 1/4" (4)
	70131	Lock Washer, 3/8" (8)
	70307	Flat Washer, 3/8" (4)
	70127	Hex Nut, 1/4" (4)
	70132	Hex Nut, 3/8" (8)

***Order Quanity As Needed**

Parts List for PUMP 762-763

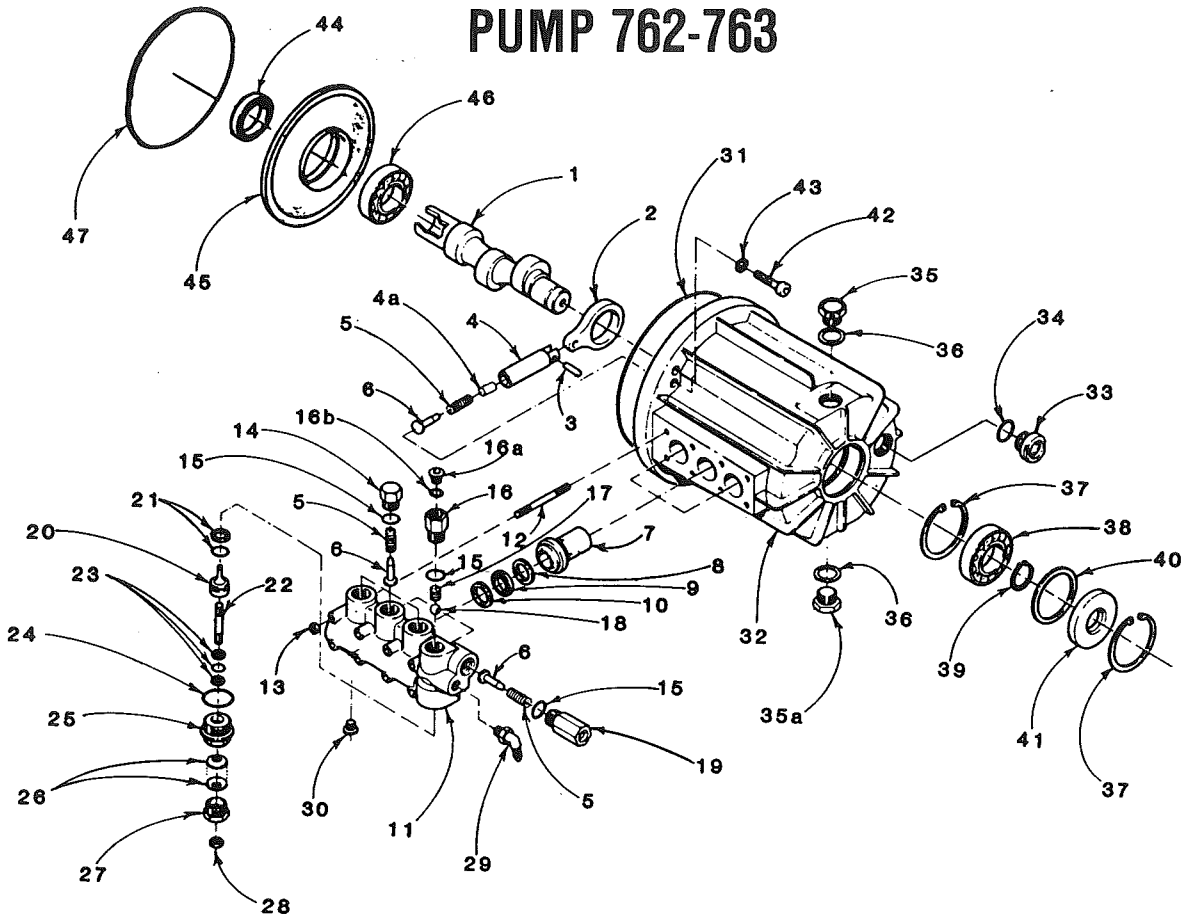


Figure	Part No.	Name
1	70441	Crankshaft (P-610)—Model 763
1	70442	Crankshaft (P-510)—Model 762
2	70443	Connecting Rod (3)
3	70444	Wrist Pin
4	70445	Plunger (3)
4a	70446	Insert Plunger (3)
5		Available in Kit Only
6		Available in Kit Only
7	70447	Oil Seal, Retainer (3)
8	70448	Plunger Seal, Rear (3)
9		Available in Kit Only
10		Available in Kit Only
11	70449	Pump Housing
12	70450	Stud (8)
13	70451	Stud Nut (8)
14	70452	Valve Plug (3)
15		Available in Kit Only
16	70453	Bypass Valve Retainer
16a	70454	Plug, Bypass Valve Retainer
16b	70455	Washer, Plug
17	70456	Bypass Valve Spring
18	70457	Ball
19	70458	Outlet Fitting
20	70459	Piston
21		Available in Kit Only
22	70460	Stem
23		Available in Kit Only
24	70461	O'Ring
25	70462	Unloader Cap
26	70463	Disc. Spring (14)
27	70464	Adjusting Nut
28	70465	Nut
29	70466	Bypass Elbow Hose Fitting
30	70467	Plug, Inlet
31	70468	O'Ring, Crankcase
32	70469	Crankcase
33	70470	Sight Glass
34	70471	Gasket, Sight Glass
35	70472	Oil Fill Cap
35a	70473	Drain Plug
36	70474	Gasket, Oil Fill Cap (2)
37	70475	Retaining Ring, Crankcase (2)
38	70476	Ball Bearing
39	70477	Retaining Ring, Crankshaft
40	70478	Spacer Ring
41	70479	Seal, Crankshaft
42	70480	Mounting Screw, Crankcase (4)
43	70481	Lock-tooth Washer (4)
44	70482	Radial Shaft Seal
45	70483	Bearing Housing
46	70484	Bearing
47	70485	O'Ring, Bearing Housing
	70486	Valve Assembly Kit Consists of: Valve Cone (7) Valve Spring (7) O'Ring (4)
	70487	Seal Kit Consists of: V-Sleeve (3) O'Ring & Back-up (3) O'Ring & Back-up (3) O'Ring Sleeve Support Ring (3)

***Order Quanity As Needed**

Parts List for
MODEL 30 HANDGUN

FURNISH CATALOG SERIAL & MODEL NUMBER WHEN ORDERING PARTS

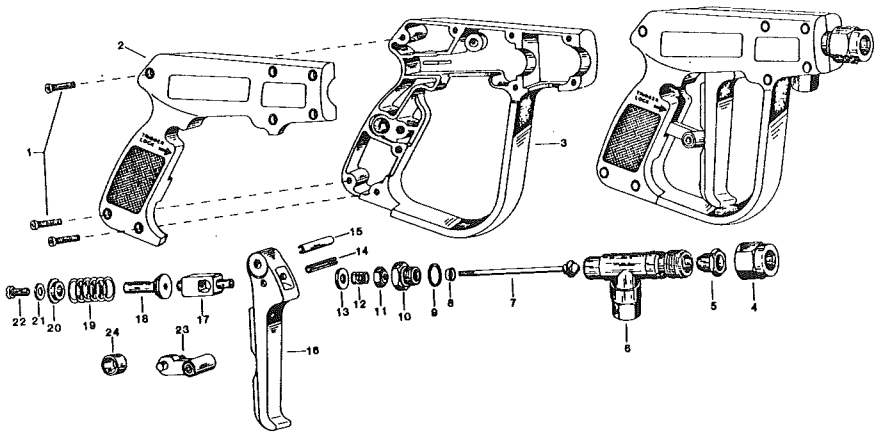


Figure	Part No.	Name	Figure	Part No.	Name
1	70380	Screw (7)*	13	70392	#5 Burr
2	70381	Right Hand Housing, Nylon	14	70393	Roll Pin
3	70382	Left Hand Housing, Nylon	15	70394	Roll Pin
4	70383	Cap	16	70395	Trigger, Fiberglass
5	70384	Valve Seat Sub Assembly	17	70396	Trigger Guide, Brass
6	70385	Inlet Body, Brass	18	70397	Spring Guide
7	70386	Stem Sub Assembly	19	70398	Spring
8	70387	Packing Cup, Buna-N	20	70399	Spring Retainer, Brass
9	70388	Gasket, Aluminum	21	70400	Washer
10	70389	Packing Screw, Brass	22	70401	Screw
11	70390	Stem Nut	23	70402	Trigger Lock, Fiberglass
12	70391	Trigger Stop Spring	24	70403	Lock Spring Ring, Delrin

***Order Quanity As Needed**

TROUBLE SHOOTING THE HIGH PRESSURE WASHER:

MALFUNCTION	CAUSE	REMEDY
The pressure and/or the delivery stops	Worn or damaged nozzle	Replace nozzle
	Worn packing seals	Replace packing seals
	Broken valve spring	Replace spring
	Fouled discharge valve	Clean valve assembly
	Fouled inlet strainer	Clean strainer
	Worn or damaged hose	Repair/replace hose
	Worn or plugged relief valve on pump	Clean, reset, and replace worn parts
	Cavitation	Check suction lines on inlet of pump for restrictions
Water in crankcase	High humidity	Reduce oil change interval
Rough/pulsating operation with pressure drop	Worn packing	Replace packing
	Inlet restriction	Check system for stoppage, air leaks correctly sized inlet plumbing to pump
Excessive leakage	Worn packing/seals	Adjust/replace packing seals
Injector fails to inject detergent	Plugged injector tube	Unplug/replace injector tube
	Excessive inlet water pressure	hose. Reduce inlet water pressure.

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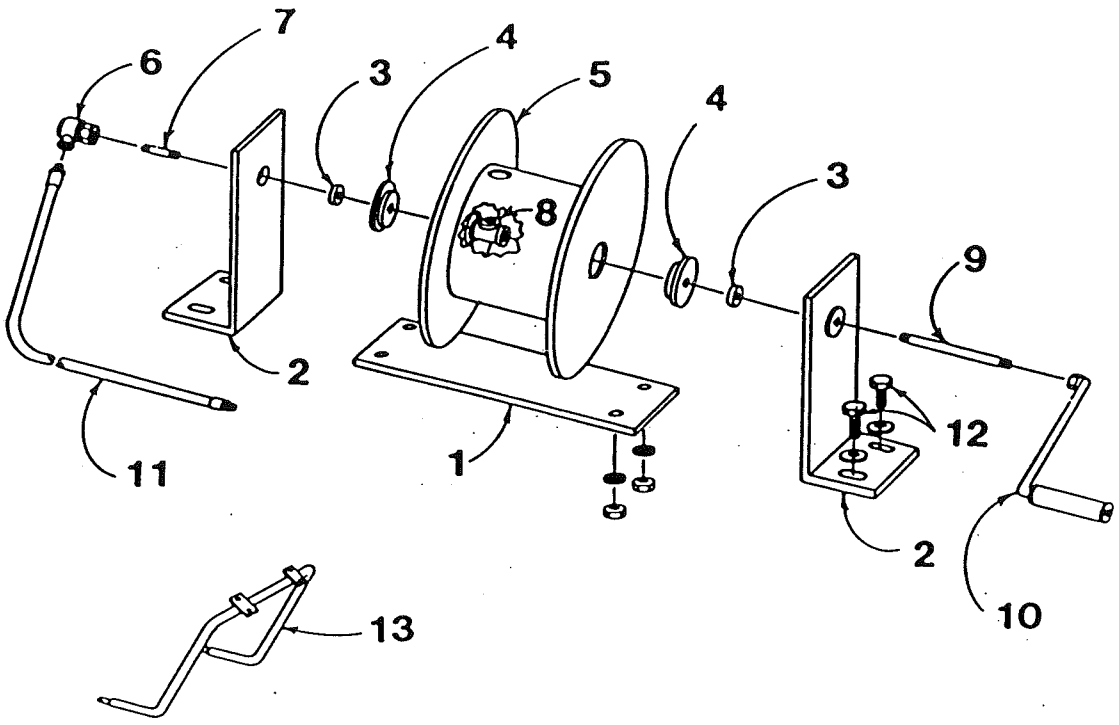
HOSE REEL NO. 761
for 762 and 763



Parts List for HOSE REEL

FURNISH CATALOG SERIAL & MODEL NUMBER WHEN ORDERING PARTS

Figure	Part No.	Name
1	70405	Base Plate
2	70406	End Bracket (2)*
3	70407	Nylon Bearing (2)*
4	70408	Roll End Support (2)*
5	70409	Spool Housing
6	70410	360 ° Swivel
7	70411	Nipple, 1/4" x 2-1/2" Gal.
8	70412	Tee, 1/4" Galv.
9	70413	Nipple, 1/4" x 8" Galv.
10	70414	Handle
11	70415	H.P. Feed Hose Assy. (3/8" x 30")
12	70416	Hex Screw 3/8" x 1-1/4" (4)*
	70307	Flat Washer, 3/8" (4)*
	70131	Lock Washer, 3/8" (4)*
	70132	Hex Nut, 3/8" (4)*
13	70417	Hose Reel Mount

*Order Quantity As Needed

INSTRUCTIONS
HOSE REEL NO.761

The hose reel is a optional feature for the washer/sprayers. To install it to the unit follow these steps.

1. Remove handgun hose from unit.
2. Install the 36" long reel feeder hose to the unit.
3. Mount the hose reel mount (ref. 13) to the unit using (2) 1/4" x 1/2" long hex screws.
4. Mount the hose reel to the hose seal mount using (4) 3/8 x 1-1/4 hex screws, lock washers, and hex nuts.
5. Thread the 36" feeder hose to the hose reel swivel.
6. Thread the handgun hose to the tee (ref. 8) located inside the reel drum. Tighten using a wrench through the slot in the end of the hose reel.
7. Wind the handgun hose around the reel and slide the handgun into the tube.

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This pdf incorporates the following model numbers:

762