

SEARS

**OWNER'S
MANUAL**

**MODEL NO.
390.260293**

CAUTION:
Read and Follow
All Safety Rules and
Operating Instructions
Before First Use of
This Product.

**Save This Manual For
Future Reference.**



**CRAFTSMAN®
PORTABLE 1/2 H.P.
UTILITY/SPRINKLER PUMP**

- Installation
- Operation
- Maintenance
- Repair Parts

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

RULES FOR SAFE INSTALLATION AND OPERATION

Carefully read and follow all safety instructions in this manual or on pump.

⚠ This is the safety alert symbol. When you see this symbol on your pump or in this manual, look for one of the following signal words and be alert to the potential for personal injury!

⚠ DANGER DANGER warns about hazards that will cause serious personal injury, death or major property damage if ignored.

⚠ WARNING WARNING warns about hazards that can cause serious personal injury, death or major property damage if ignored.

⚠ CAUTION CAUTION warns about hazards that will or can cause minor personal injury or property damage if ignored.

The word **NOTICE** indicates special instructions which are important but not related to hazards.

1. To avoid risk of serious bodily injury and property damage, read safety instructions carefully before installing pump.
2. Follow local and/or national plumbing and electrical codes when installing pump.
3. **⚠ WARNING** To avoid fatal shocks, proceed as follows if pump needs servicing:
 - A. **Disconnect power to pump outlet box before pulling pump cord plug.** After plug is pulled, let pump cool for 20 minutes before attempting to work on it.
 - B. **Take extreme care when changing fuses.** To reduce chance of fatal electrical shocks, DO NOT stand in water or put your finger in the fuse socket.
 - C. **Ground electrical outlet box.**
 - D. **Use only Ground Fault Circuit Interrupter (GFCI) protected grounded outlet for cord plug.**
4. **Never run pump dry.** To do so can damage internal parts, overheat pump (which can cause burns to people handling or servicing pump), and will void warranty!
5. **⚠ WARNING** Risk of fire or explosion. Do not pump gasoline or any other flammable liquids with pump. Do not use pump in atmosphere that might contain flammable fumes or vapors.
6. Do not pump chemicals or corrosive liquids with pump.

⚠ WARNING



Hazardous voltage. Can shock, burn, or cause death.

Ground pump before connecting to power supply.

⚠ Pump is supplied with 3-conductor grounding type cord. Connect only to properly grounded, GFCI protected outlet. Do not lift pump by electrical cord.

⚠ Pump is non-submersible. Keep motor dry at all times. Do not wash motor. Do not immerse. Protect motor from wet weather.

⚠ If using extension cord, use only UL approved indoor/outdoor, 3-wire, grounding type cord. Do not

allow any part of cord or receptacle ends to sit in water or damp locations.

⚠ Unplug pump before servicing.

⚠ WARNING Hazardous pressure. Pump body may explode if used as a booster pump unless relief valve capable of passing full pump flow at 75 PSI (517 kPa) is installed.

⚠ WARNING Explosion hazard. Never run pump with outlet shut off or blocked. If water is trapped in pump during operation, it may turn to steam, leading to explosion and burns.

NOTICE

Pump clean water only with pump. To avoid clogging pump and damage to shaft seal, do not pump water containing solids, foreign material, sand, silt, or abrasives. Always have suction strainer installed when pump is operating. Failure to use strainer may cause pump failure and void warranty.

Clean strainer and flush out pump after each use.

Make sure all hose and pipe connections in suction line are tight. An air leak in suction line will prevent proper priming and reduce performance.

To prevent damage to pump materials, do not use pipe joint compounds on pump ports. Use only teflon tape or Plasto-Joint-Stik* to seal threads.

Tighten all piping joints to pump hand tight +1-1/2 turns only. Overtightening may break pump and will void warranty.

This unit is not designed for applications involving salt water or brine! Use with salt water or brine will void warranty.

*Lake Chemical Co., Chicago, Illinois

FULL ONE YEAR WARRANTY ON CRAFTSMAN® 1/2-HP UTILITY/SPRINKLER PUMP

For one year from the date of purchase, Sears will repair or replace this pump, free of charge, if defective in material or workmanship.

LIMITATION OF LIABILITY

SEARS WILL NOT BE LIABLE FOR LOSS OR DAMAGE TO PROPERTY OR ANY INCIDENTAL OR CONSEQUENTIAL LOSS OR EXPENSE FROM PROPERTY DAMAGE DUE DIRECTLY OR INDIRECTLY FROM THE USE OF THIS PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

WARRANTY SERVICE IS AVAILABLE BY SIMPLY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This warranty applies only while this product is in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

INSTALLATION

Pumping From Lakes, Streams, and Ponds

Locate pump as near as possible (vertically) to water source, to keep suction lift (distance from water to pump) as low as possible. Place pump on level support. Protect against excess moisture and flooding.

Long pipe runs and many fittings increase friction and reduce flow. Use the smallest possible number of fittings and the shortest possible run for piping.

Support weight of pipe.

Be sure water is clear of debris which can clog pump, such as sand, dirt, or scale. Be sure foot valve and hose are clean and in good condition; scale or dirt in foot valve can cause valve to leak. Valve leakage may cause pump to lose prime, which can result in pump failure.

Piping

Both suction and discharge ports are tapped for 1" NPT (National Pipe Thread) threads. If using hoses, use hose adapters. When pumping from lakes, streams or ponds, use reinforced hose supplied with pump. Ordinary garden hose will collapse and cause pump failure. Keep strainer with foot valve on end of suction hose. Inspect and clean strainer frequently (Figure 1).

NOTICE: An air leak in suction pipe may draw air in although no water leaks out. Make sure there are no air leaks or air pockets in suction pipe.

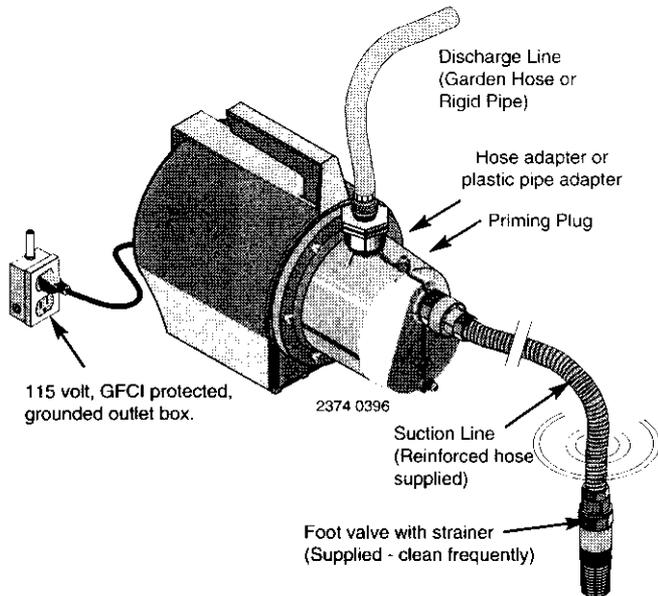


Figure 1 – Typical Installation

Boosting City Water Pressure

CAUTION | Hazardous pressure. When using garden hose as a discharge line, do not run pump with hose outlet or nozzle closed. Hose or nozzle may burst from excessive pressure. When using pump as a high-pressure washer, use only reinforced high pressure hose or pipe for discharge line. When using garden hose, install adapters to pump suction and discharge. Suction hose will require two female ends. Either use a standard washing machine supply hose or modify a short piece of standard 3/4" garden hose as a suction line (see Figures 2A and 2B).

Connect suction hose to faucet on outside of house (see Figure 3, Page 4) and to pump suction. Use 3/4" standard garden hose for discharge. Pump can supply up to 3 sprinklers (depending on GPM output of sprinklers).

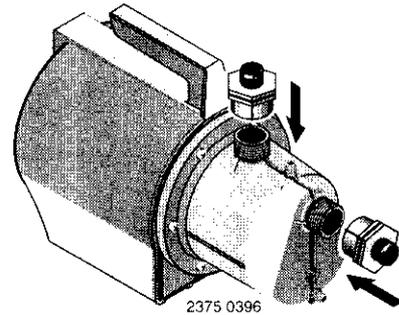


Figure 2A – When using pump as a booster pump with hose-connected suction and discharge, install adapters to pump suction and discharge ports.

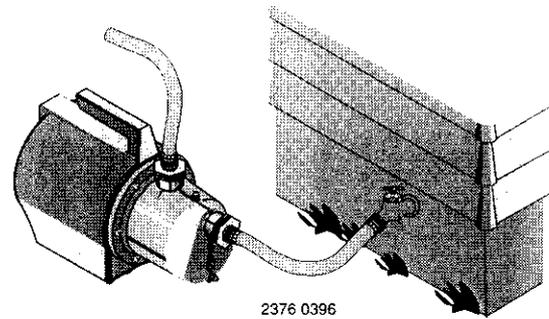


Figure 2B – Connect pump to spigot for use with sprinklers. Connect with adapters supplied with pump.

OPERATION

PRIMING/OPERATION

NOTICE: Do not run pump dry. Running pump without water can damage impeller and may damage seal, causing leaking or flooding, and will void warranty.

All suction connections must be airtight. Make sure suction lift is not more than 20 feet (6.1M). Fill pump body through priming port before starting pump. Start pump; it should pump water in under 10 minutes (depending on length of suction hose and height of pump above water).

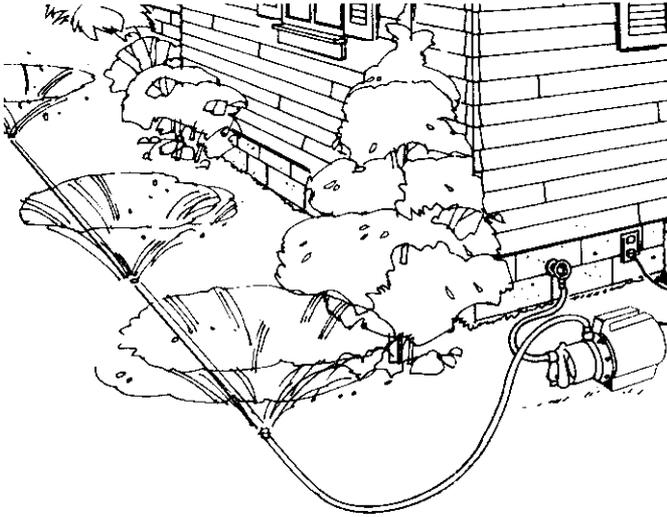


Figure 3 – Typical sprinkler application. Pump can supply up to three sprinklers.

CAUTION Hazardous pressure. Do not shut off hose or sprinklers while pump is running. Hose or sprinkler head may explode.

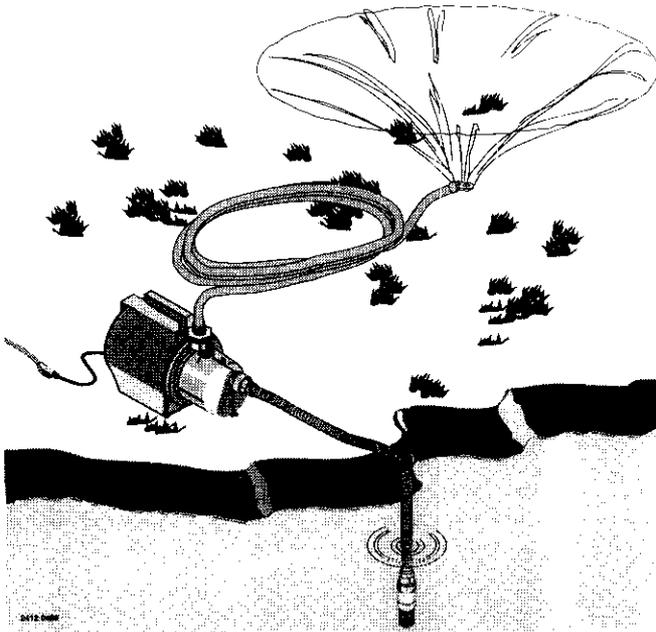


Figure 4 – Sprinkler pumping from pond. Pump can supply one to three sprinklers depending on conditions.

LUBRICATION

Motor is lubricated at factory for life of bearings. Pump seal is water cooled and self lubricating.

PUMP SERVICE

WARNING Hazardous voltage. Can shock, burn, or cause death. Disconnect motor from electrical power before servicing pump.

Motor has auto-reset thermal overload. If motor overheats, overload will cut off power to prevent damage and will reset after motor cools. If overload trips repeatedly, check pump for cause (low voltage, clogged impeller, etc.).

ELECTRICAL



Risk of dangerous or fatal electric shock. Unplug pump before servicing it. Do not handle pump or attempt to work on pump with wet hands or while standing on wet or damp floor.

Plug pump into 115 Volt, 60 Cycle outlet only. Pump is equipped with 3-wire, grounded, cord and plug. Do not modify or remove plug. Plug in to properly grounded, grounding type outlet only. Make sure pump circuit meets National Electrical Code (in USA) or Canadian Electrical Code (in Canada). To avoid dangerous electrical shock hazard, keep cord dry at all times.

Performance Chart

Suction Lift	Discharge Pressure in Pounds per Square Inch							
	5	10	15	20	25	30	35	40
0'	10.2	10.0	9.7	9.2	8.4	6.9	5.6	4.2
5'	9.9	9.6	9.4	9.1	7.5	6.1	4.9	3.8
10'	7.9	7.6	7.4	7.2	6.3	5.3	4.0	3.0
15'	6.5	6.4	6.3	6.2	6.0	4.5	3.4	2.5
20'	4.8	4.8	4.8	4.7	4.7	4.2	3.1	2.2

} Gal. per Min.

NOTE: Performance does not take into account pressure losses in suction and discharge piping.

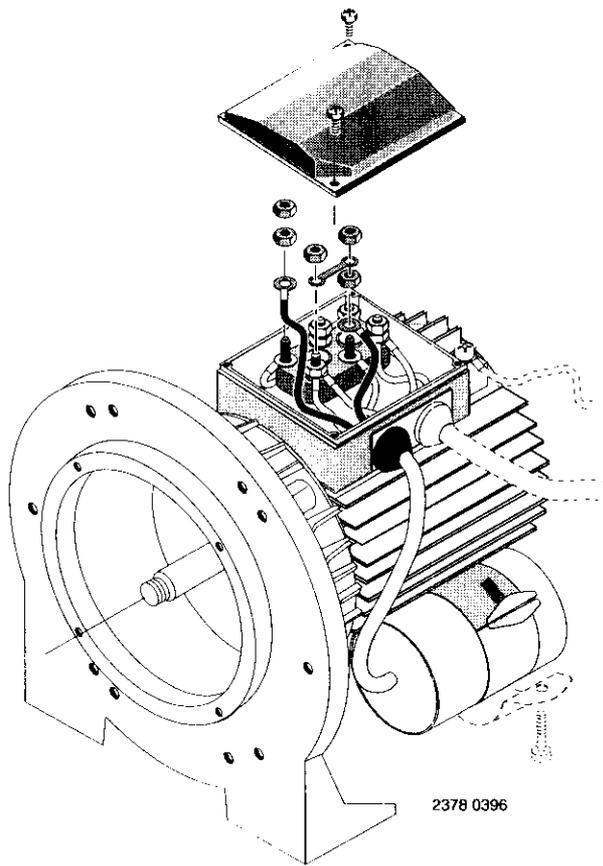


Figure 5 – Capacitor replacement. Unplug pump before doing any work on it. Discharge capacitor by shorting capacitor lead wires together before removing it.

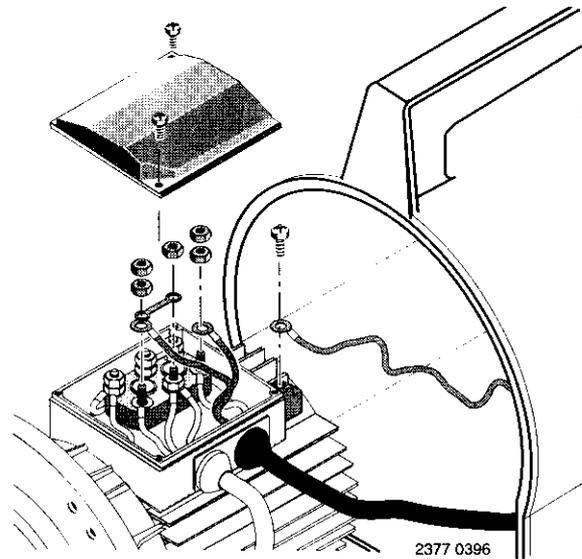
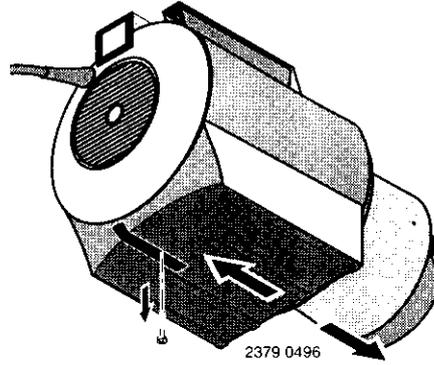


Figure 6 – Shroud replacement. Unplug pump before doing any work on it. Be sure that green ground wire is solidly connected to grounding terminal (marked ⊕) before reinstalling shroud. See Steps I and I0, Page 6, for shroud fastenings.

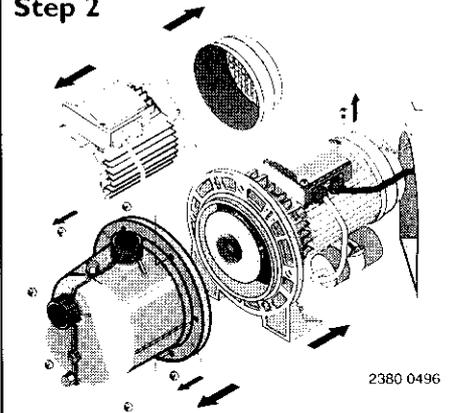
PUMP DISASSEMBLY AND SEAL REPLACEMENT

⚠ WARNING Risk of electric shock. Unplug pump before working on it. Make sure that you do not scratch, nick, or crack new seal. Do not scratch or gouge pump shaft. Make sure seal faces are clean when installing new seal.

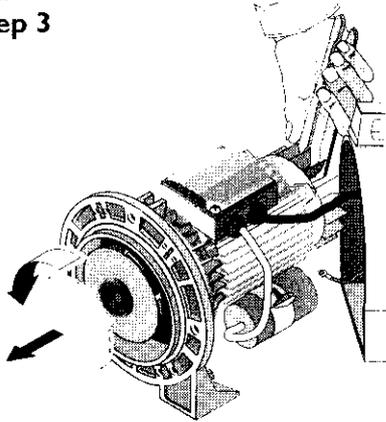
Step 1



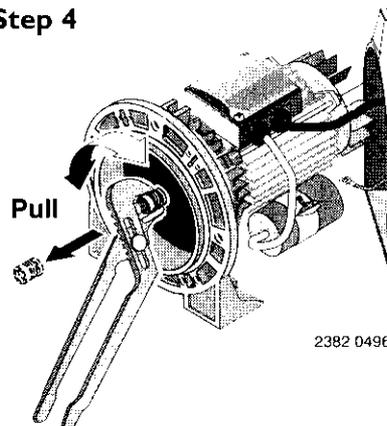
Step 2



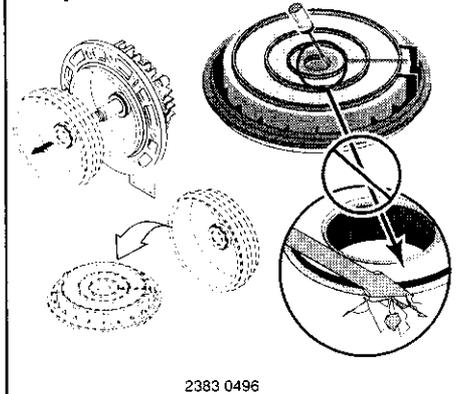
Step 3



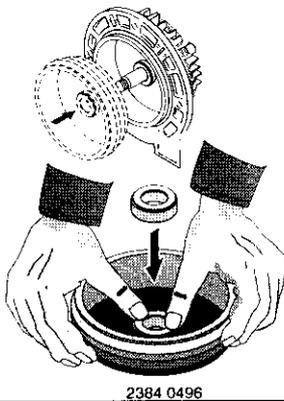
Step 4



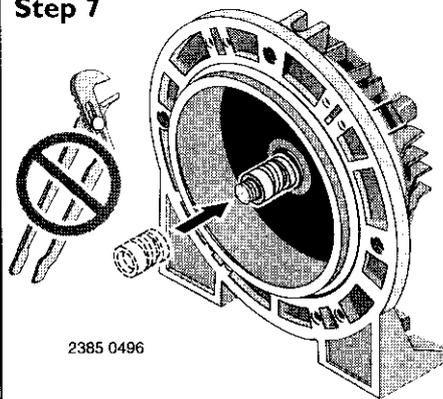
Step 5



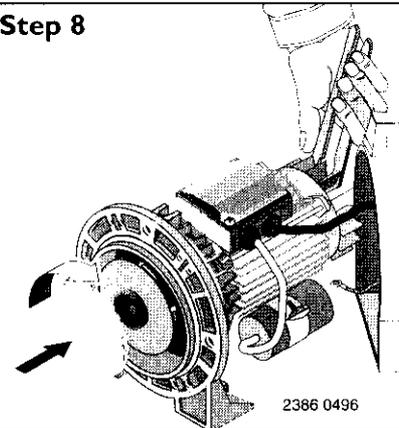
Step 6



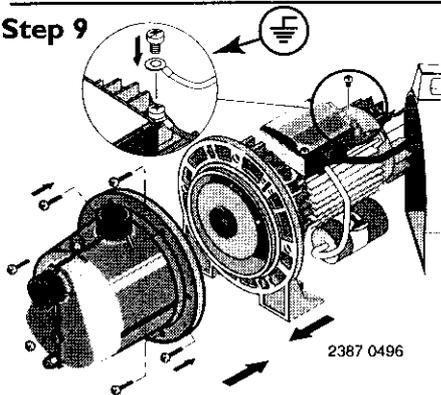
Step 7



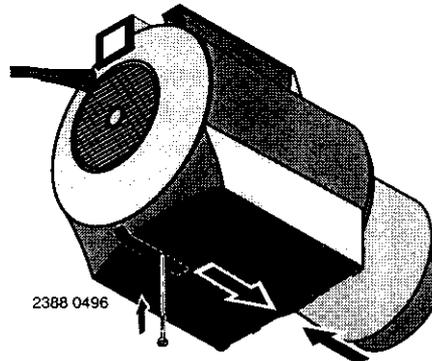
Step 8



Step 9



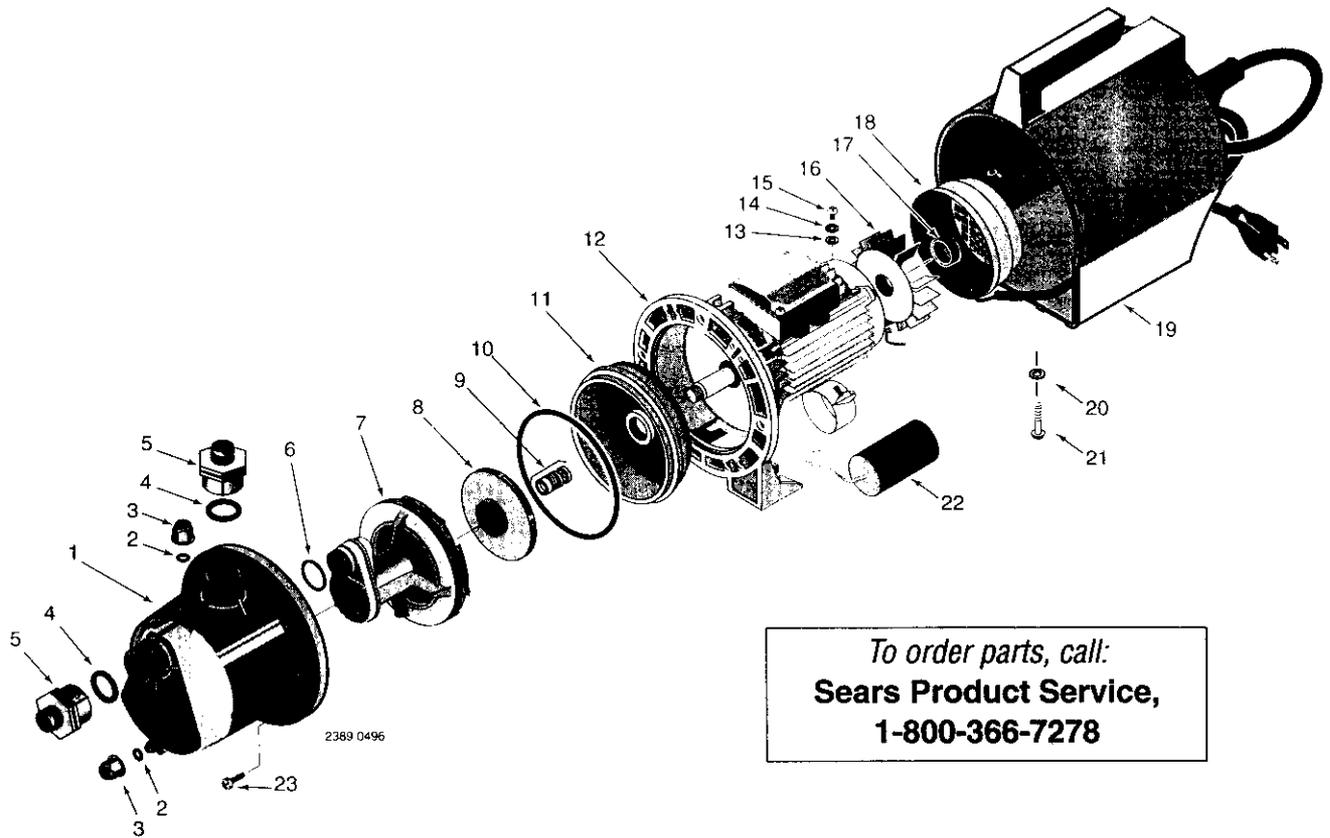
Step 10



⚠ WARNING Risk of electrical shock. Connect ground wire before inserting pump in shroud.

Impeller must not bind on diffuser (inside pump body) at reassembly (Step 9). Turn shaft by hand before tightening pump body bolts to make sure that shaft and impeller are clear of diffuser.

REPAIR PARTS



Key No.	Part Number	Part Description	Qty.
1	101P3410	Pump Body	1
2	111P0710	Drain/Priming Port O-Ring	2
3	102P1030	Drain/Fill Cap	2
4	111P0370	Hose Adapter O-Ring	2
5	101P3460	Garden Hose Adapter	2
6	111P0480	Venturi O-Ring	1
7	102P2840	Venturi/Diffuser	1
8	731S5700	Impeller	1
9	ZBR00010	Shaft Seal - Complete	1
10	111P0700	Pump Body O-Ring	1
11	101P1290	Seal Plate	1
12	*	Motor	1
13	121P0090	Flat Washer	1
14	121P0920	Lock Washer	1
15	121P1280	Ground Screw	1
16	102P2010	Fan (Includes Key No. 17)	1
17	121R2240	Fan Clip	1
18	721S1030	Fan Cover	1
19	751S3230	Motor Housing (Complete)	1
20	121P1500	Washer for Housing Screw	1
21	121P4180	Housing Screw	1
22	171P5740	Capacitor - 30 microfarad	1
23	121P1940	Cap Screw	6
•	ZB400960	Suction Hose Kit with 1" Foot Valve and Strainer	1
•	ZA000020	Foot Valve and Strainer - 1"	1

• Not illustrated. * If motor fails, replace entire pump.

OWNER'S MANUAL

Model No.
390.260293

The model number of your Horizontal Tank will be found on a plate attached to the tank.

When requesting service or ordering parts, always give the following information:

- Product Type
- Model Number
- Part Number
- Part Description

CRAFTSMAN® PORTABLE 1/2 H.P. UTILITY/SPRINKLER PUMP

For the repair or replacement parts you need
Call 7 am - 7 pm, 7 days a week
1-800-366-PART
(1-800-366-7278)



For in-home major brand repair service
Call 24 hours a day, 7 days a week
1-800-4-REPAIR
(1-800-473-7247)



For the location of a
Sears Repair Service Center in your area
Call 24 hours a day, 7 days a week
1-800-488-1222



For information on purchasing a Sears
Maintenance Agreement or to inquire
about an existing Agreement
call 9 am - 5 pm, Monday-Saturday
1-800-827-6655

