



ATD-5197K
17 Gallon Low Profile Oil Drain with Electric Pump
Owner's Manual



Features:

- Made-in-USA 110V UL listed electric pump for easy waste oil discharge
- 17 Gallon capacity drain with 6.5' long discharge hose with metal "J" spout
- Oversize fluid collection area with removable metal screen
- Long t-handle allows easy mobility
- Overall Dimensions: 43.30 in. x 27.55 in. x 7.48 in.

WARNING:


Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.


Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. The distributor cannot be responsible for issues arising from modification. We strongly recommend this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, **DO NOT** use the machine until you have first contacted your distributor to determine if it can or should be performed on the product.

GENERAL SAFETY RULES

 **WARNING:** Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.

 **CAUTION:** Do not allow persons to operate or assemble this low-profile oil drain until they have read this manual and have developed a thorough understanding of how the low profile oil drain works.

 **WARNING:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

WORK AREA

- **Keep work area clean**, free of clutter and well lit. Cluttered and dark work areas can cause accidents.
- **Keep children and bystanders** away while operating the low-profile oil drain. Distractions can cause you to lose control, so visitors should remain at a safe distance from the work area.
- **Be aware of all power lines, electrical circuits**, water pipes and other mechanical hazards in your work area, particularly those hazards below the work surface hidden from the operator's view that may be unintentionally contacted and may cause personal harm or property damage.
- **Be alert of your surroundings.** Using the low-profile oil drain in confined work areas may put you dangerously close to hot oil and rotating parts.
- **Use only 3-wire extension cords** that have 3-prong, grounding-type plugs and 3-prong receptacles that accept the equipment plug and meet requirements for the motor load. Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with the National Electrical Code and local codes and ordinances. All wiring should be performed by a qualified technician.

PERSONAL SAFETY

- **Hot oil can cause severe burns. Allow the engine oil to completely cool before draining the oil into the drain.**
- **An incorrectly supported vehicle can tilt or fall and cause injury or death. Never work under a vehicle without proper support devices.**
- **Flame or heat sources may ignite the oil; resulting in fire, injury, and death. Never use or store the drain near open flames or heat sources.**
- **Engine exhaust contains carbon monoxide; an odorless; invisible gas that can cause injury or death. Do not use the drain with the vehicle's engine running.**
- **Read and adhere to all warning and safety precautions in the owner's manual for this product BEFORE use.**
- **Stay alert**, watch what you are doing and use common sense when using the low-profile oil drain. Do not use the low-profile oil drain while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the low-profile oil drain may result in serious personal injury.
- **Dress properly.** Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- **Use safety apparel and equipment.** Use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use as dust mask in dusty work conditions. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.
- Make sure the Oil Drain is used only on a dry, oil/grease free, flat, level, ground surface capable of supporting the weight of the unit and contents.



- **Never use the oil drain near open flames or heat sources.**

- Make sure to remove the oil drain and all other tools and equipment before lowering the vehicle to the floor surface.



- **Follow guidelines for engine oil disposal.** Used engine oil should be removed from the vehicle and properly disposed of or recycled. Many states require recycling. Contact your local solid/liquid waste authority for information on recycling and/or disposal.
- Oil contains hazardous chemicals which may be harmful to the environment and hazardous to your health.

LOW-PROFILE OIL DRAIN USE AND CARE

- **Do not modify the low-profile oil drain in any way.** Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the low-profile oil drain was designed.
- **Always check for damaged or worn out parts before using the low-profile oil drain.** Broken parts will affect the low-profile oil drain's operation. Replace or repair damaged or worn parts immediately.
- **Do not exceed the low-profile oil drain load capacity.**
- **Use the low-profile oil drain on flat and level surfaces** capable of supporting the low-profile oil drain and its maximum load. Pulling or pushing the oil drain on a slanted or uneven surface can result in loss of control.
- **Storage of low-profile oil drain** When low-profile oil drain is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.
- **Keep the reservoir clean and free of grit and grease.**

OPERATION



WARNING: Follow all safety precautions outlined in this manual and the vehicle manual.

- Move the oil drain under the vehicle, making sure the opening of the reservoir is positioned directly below the oil drain plug of the engine.
- Remove the oil drain plug from the engine, and allow the old oil to completely drain from the engine into the reservoir.
- Once the old engine oil is completely drained, replace the oil drain plug and refill engine oil to the manufacturers recommendations.
- When emptying the old oil from the reservoir of the oil drain, make sure to follow guidelines for engine oil disposal. If necessary, contact your local solid/liquid waste authority for information on recycling and/or disposal. Move the oil drain to where the old oil will be temporarily stored (e.g., a tank), put the long hose (14) into the tank, and plug in the electrical cord to activate pump until the old oil is evacuated from the drain.

MAINTENANCE

- **Maintain your low-profile oil drain.** It is recommended that the general condition of any low-profile oil drain be examined before it is used. Adopt a program of conscientious repair and maintenance. If any abnormal vibrations or noise occurs, have the problem corrected before further use. Have necessary repairs made by qualified service personnel. Before each use, Check for broken or bent parts, loose or missing parts, and any condition that may affect the proper operation of the product. If a problem occurs, have the problem corrected before further use. **Do not use damaged equipment.**
- When cleaning, use a clean cloth with detergent or mild solvent and store the oil drain in a safe and dry location.

PUMP SPECIFICS

- The pump supplied with your low-profile oil drain is a UL listed, USA made, 110V AC pump. This pump is NOT SUBMERSIBLE. This pump will handle water, oil and Ethylene Glycol and motor oils with a viscosity of up to 15W40. This pump is self priming to 7 feet if the impeller is initially wet (primed). **It is for intermittent use only** (not for constant use).

NOTE: This pump is **NOT** recommended for use with soap detergents, gasoline, diesel fuel or any flammable, explosive or combustable liquids or other fluids not compatible with pump component materials. **DO NOT** use unit in enclosed areas. This motor is an open motor and is **NOT** spark proof.

- When unpacking the unit, inspect carefully for any damage that may have occurred during transit. Check for loose, missing or damaged parts.
- Know the pump application, limitations and potential hazards.
- Never touch an operating motor. Modern motors are designed to operate at high temperatures.



WARNING: DO NOT use to pump flammable liquids such as gasoline, kerosene, diesel fuel, etc. DO NOT use in flammable or explosive atmospheres. Pump should only be used with liquids compatible with pump component materials. Failure to follow this warning can result in personal injury and/or property damage.

- Make certain that power source conforms to the requirements of this pump; 110-115V AC, 50~60 Hz.
- Provide adequate protection and guard around moving parts.
- Disconnect power before servicing a motor or the oil drain.
- Release all pressure from the system before servicing any component.
- Drain all liquids from the system before servicing.
- Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury an/or property damage.
- Check hoses for weak or worn condition before each use, making certain that all connections are secure.
- Periodically inspect pump and system components. Perform routine maintenance as required.



WARNING: RISK OF ELECTRIC SHOCK! NEVER CUT CORD!

- This equipment is only for use on 110-115V AC single phase and is equipped with an approved 3-conductor cord and 3-prong, grounding type plug. To reduce the risk of electric shock, the unit should be plugged directly into a properly installed and grounded 3-prong grounding type receptacle. The green (or green and yellow) conductor is the grounding wire. The motor must be securely and adequately grounded for your protection against shock hazards. Protect electrical cord from sharp objects, hot surfaces, oil and chemicals. Avoid kinking the cord. Replace or repair damaged or worn cords immediately.

PUMP SPECIFICS CONTINUED



WARNING: DO NOT HANDLE A PUMP OR PUMP MOTOR WITH WET HANDS OR WHEN STANDING IN WATER OR ON A WET OR DAMP SURFACE.

- Thermal protector tripping is an indication of motor overloading which is a result of operating the pump with high discharge restrictions. The motor is equipped with an automatic resetting thermal protector and may restart unexpectedly. Protector tripping is an indication of motor overloading as a result of operating the pump with low discharge restriction, excessively high or low voltage, inadequate wiring, pumping too hot of a liquid, incorrect motor connections or a defective motor or pump. Read the troubleshooting guide on the following page. Failure to follow warnings and cautions can result in personal injury or death and/or property damage.
- Protect pump from extreme heat, cold and humidity. This unit is not waterproof and is not intended to be used in showers, saunas or other potentially wet environments. The motor is intended to be used in a clean dry location with adequate supply of cooling air. Ambient temperature around motor should not exceed 104°F (40°C).

PUMP OPERATION

- It is recommended that impeller is wet before start-up for better priming. Pumps that are self priming should prime themselves within 30 seconds after pump is started. Wetting the impeller with fluid being pumped and keeping the impeller lubricated with petroleum jelly will lengthen its life and improve priming action. Running the impeller dry for as short as 30 seconds can ruin the impeller.
- Be sure hose attachments or piping connections are tight. Any leakage in suction side will prevent the pump from priming, causing premature failure.



CAUTION: Because the pump is thermally protected, it is designed to shut off temporarily in an overload condition, therefore, pumping extremely hot liquids is not recommended. Also, to protect the impeller from breakage, do not pump liquids with a temperature less than 40°F. (4°C)
DO NOT SUBMERGE THIS PUMP OR MOTOR IN WATER.

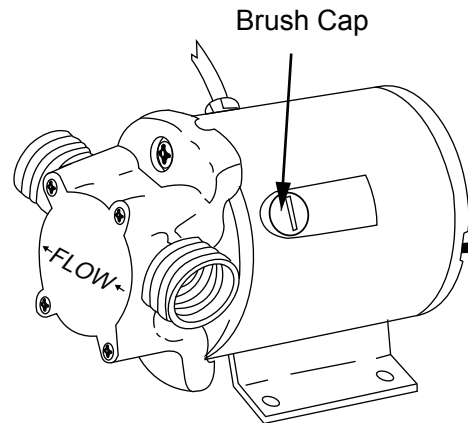
- This pump is turned on and off by plugging the cord into any 110-115V AC outlet. When unplugging, grasp by the plug, **DO NOT PULL ON THE CORD.**

PUMP MAINTENANCE

- Always drain pump when not in use. If pump is not going to be used for a month or more, Wipe pump body out thoroughly with a clean rag and a water based solvent – do NOT use cleaners that may affect the operation of the pump. Remove the body cover and take the impeller out, clean inside of pump body and apply a generous coating of petroleum jelly to both inside and impeller before replacing impeller in the body.
- Pump should be checked daily, weekly, monthly for proper operation. If anything has changed since unit was new, unit should be removed and replaced. Only qualified electricians or servicemen should attempt repairs to this unit. Improper repair and/or assembly can cause a shock hazard.

REPLACING THE BRUSHES

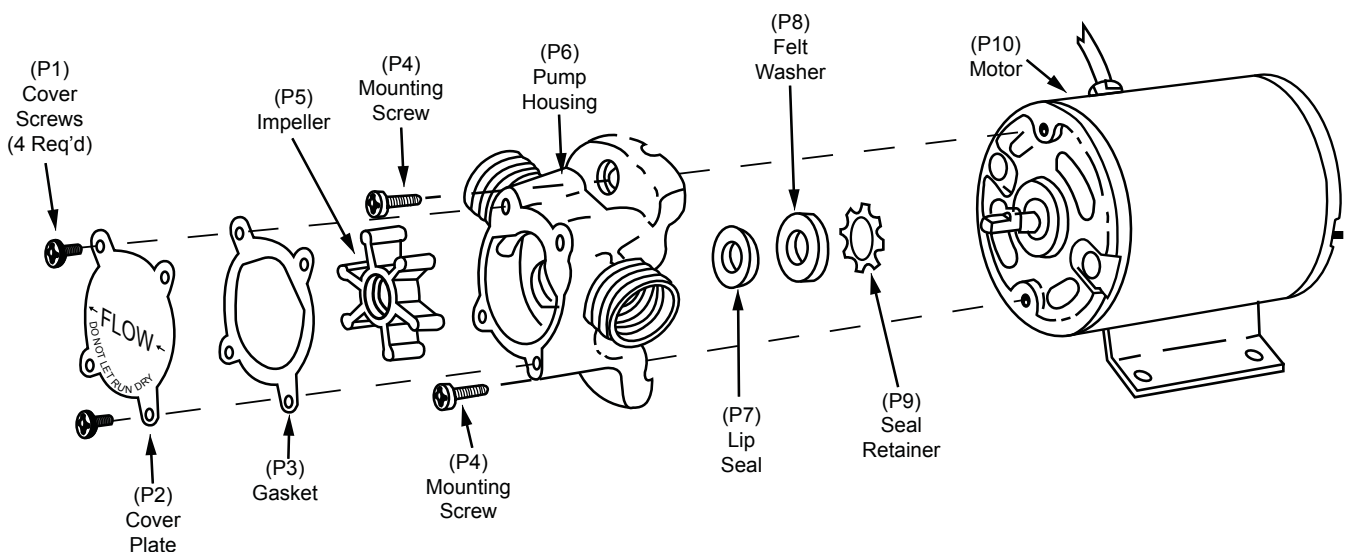
- Obtain part# PRT5197-21, Brush kit (ACK-1066).
- Be sure pump is disconnected from its source of power.
- Unsnap brush cap by twisting it to the left, then lifting it from the motor housing.
- Remove brush, spring and spring holder cover by pulling them straight out of the brush holder.
- Install new brush and spring assembly with regard to the curvature of the front of the brush.
- Replace cap.



REPLACING THE IMPELLER

NOTE: The impeller is **NOT** a warranty item.

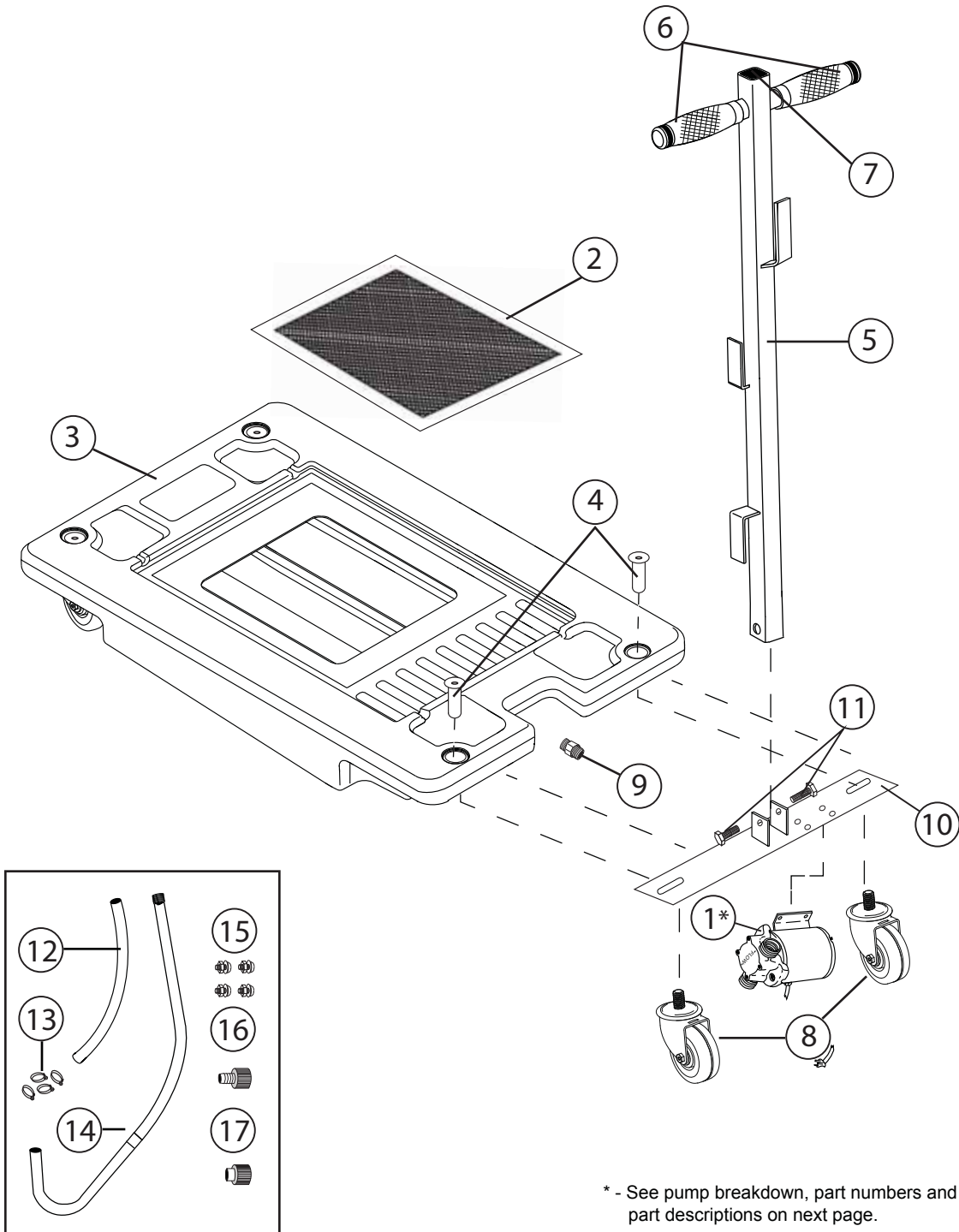
- Replace impeller when it is damaged by foreign objects, when run dry or when pumping a liquid not compatible with the impeller.
- Obtain service kit PRT5197-18 or PRT5197-19, depending on your needs. (See parts page for complete descriptions of each kit).
- Be sure pump is disconnected from its source of power.
- Remove cover plate (Ref P2 below) and gasket (Ref P3 below).
- Remove impeller (Ref P5 below)
- Grease new impeller with petroleum jelly lubricant and align the flat in the inside of the impeller with the flat on the motor shaft. Push impeller into place and at the same time, twist in a clockwise direction. This will bend the blades in the direction required for running.
- Replace cover using new gasket (Ref P3 below) provided with each PRT5197-18 or PRT5197-19 repair kit.
- Tighten all cover screws (Ref P1 below) evenly and snugly (generally about 2 ft. lbs.) Do not overtighten.



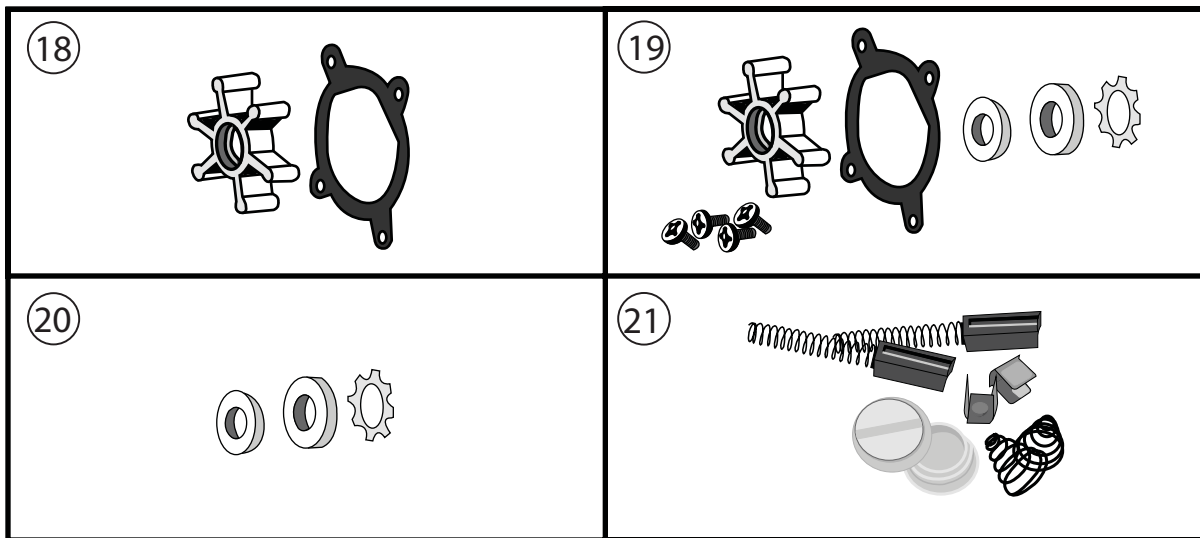
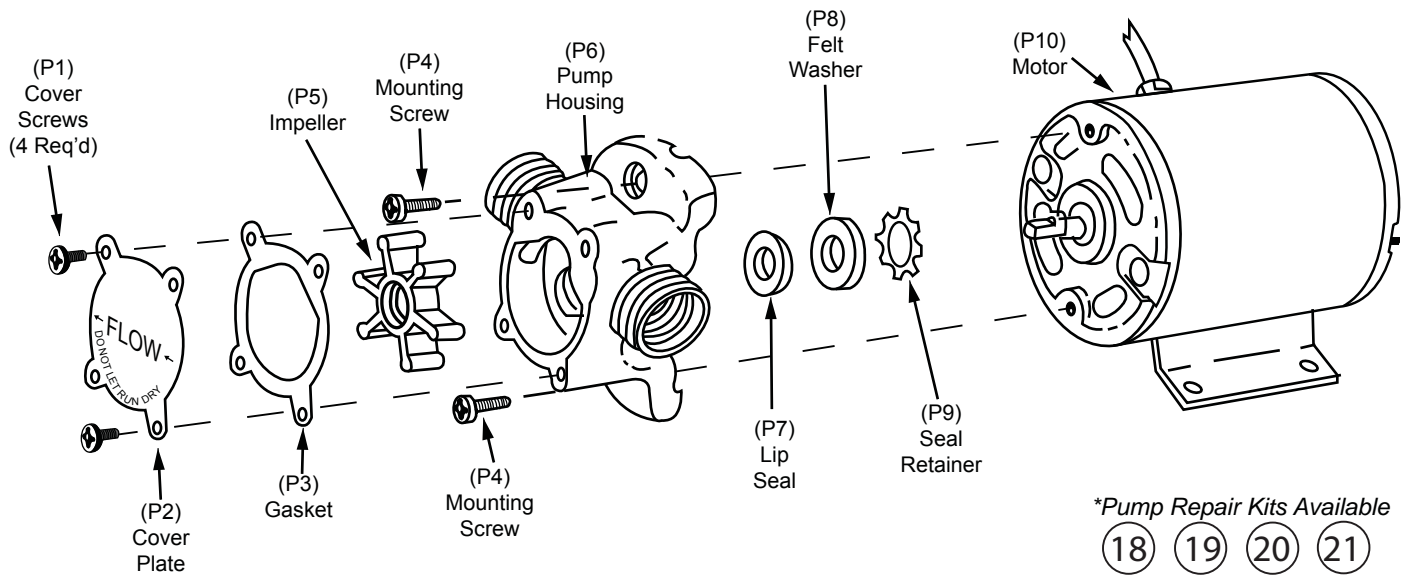
TROUBLESHOOTING CHART

SYMPTOMS	POSSIBLE CAUSES	CORRECTIVE ACTIONS
Pump will not prime or retain prime after operating	<ol style="list-style-type: none"> 1. Air leak in suction line 2. Defective impeller 3. Seal worn 4. Gasket leaking 5. Groove worn in shaft or seal area 6. Suction lift too high 7. Hose kinked 8. Hose fitting not tight on head 	<ol style="list-style-type: none"> 1. Repair or replace 2. Replace 3. Replace 4. Replace 5. Replace motor 6. Lower pump 7. Straighten hose 8. Tighten hose
Pump runs but no fluid comes out	<ol style="list-style-type: none"> 1. Faulty suction priming 2. Damaged impeller 3. Discharge height too high 4. Clogged inlet 	<ol style="list-style-type: none"> 1. Repair or replace 2. Replace 3. Lower discharge height 4. Clean suction line
Motor runs too hot	<ol style="list-style-type: none"> 1. Voltage may be incorrect 2. Excessive back pressure in discharge 3. Impeller swollen 4. Liquid too viscous 5. Plugged or kinked discharge hose 6. Insufficient air flow on motor 	<ol style="list-style-type: none"> 1. Voltage should be 110-115V AC, 60Hz 2. Reduce pressure 3. Replace impeller 4. Reduce viscosity of liquid 5. Examine and repair 6. Place in open air location
Flow rate is low	<ol style="list-style-type: none"> 1. Piping or hose is plugged or damaged 2. Clogged impeller 3. Worn impeller 4. Voltage is incorrect 5. Liquid too viscous 	<ol style="list-style-type: none"> 1. Clean or replace 2. Clear obstructions 3. Replace 4. Voltage should be 110-115V AC, 60Hz 5. Reduce viscosity of liquid
Seal leaks	<ol style="list-style-type: none"> 1. Seal worn out 2. Shaft grooved 3. Pump head loose on motor 	<ol style="list-style-type: none"> 1. Replace 2. Replace motor 3. Tighten pump mounting screws
Pump will not run	<ol style="list-style-type: none"> 1. No electricity 2. Impeller jammed 3. Motor may be damaged 	<ol style="list-style-type: none"> 1. Outlet should be 110-115V AC, 60Hz 2. Clear obstruction 3. Replace

PUMP SPECIFICATIONS	
Power supply required.....	110-115V AC, 60Hz
Fuse requirement.....	2 Amps
Dimensions.....	6.25" L x 3.50" H x 4" W
Maximum liquid temperature.....	160° F
Minimum liquid temperature.....	40° F
Cord length/type.....	6', 18/3 type SJ w/3 prong (grounded) type plug
Motor type.....	UL/CSA, universal, external brush holder
Thermal protection.....	Automatic
Motor amps.....	1.40 Amps
Duty cycle.....	Intermittent - max 30 minutes
Pump body material.....	Bronze
Impeller.....	Nitrile
Lip seal.....	Nitrile
Lip seal metal retainer.....	B/L-22
Motor shaft material.....	303 SS
Pump Gasket.....	Neoprene
Cover.....	316 SS
Screws.....	18-8 SS
Pump shipping weight.....	6 lbs



* - See pump breakdown, part numbers and part descriptions on next page.



ITEM#	ORDERING PART#	PART DESCRIPTION
1	PRT5197-01	PUMP (AC-106-10)
2	PRT5197-02	FILTER SCREEN
3	PRT5197-03	RESERVOIR
4	PRT5197-04	CASTER LOCKNUT
5	PRT5197-05	HANDLE
6	PRT5197-06	HANDLE GRIP
7	PRT5197-07	HANDLE PLUG
8	PRT5197-08	CASTER (4 pcs)
9	PRT5197-09	BUNG KIT
10	PRT5197-10	MOUNTING BRACKET
11	PRT5197-11	SCREW
12	PRT5197-HK	SHORT HOSE
13	PRT5197-HK	HOSE CLAMP (x4)
14	PRT5197-HK	LONG HOSE w/"J" SPOUT
15	PRT5197-HK	SCREW SET
16	PRT5197-HK	FITTING
17	PRT5197-HK	FITTING
18	PRT5197-18	SERVICE KIT (ACK-1062-10) OIL RESISTANT IMPELLER (P5) AND GASKET (P3)
19	PRT5197-19	SERVICE KIT (ACK-1064-10) OIL RESISTANT IMPELLER (P5), GASKET (P3), SEAL (P7), FELT WASHER (P8) AND SEAL RETAINER (P9)
20	PRT5197-20	SERVICE KIT (ACK-1070-10) SEAL (P7), FELT WASHER (P8) AND SEAL RETAINER (P9)
21	PRT5197-21	BRUSH KIT (ACK-1066)

ASSEMBLY INSTRUCTIONS

- Refer to **FIGURE 1** and place electric pump (1) under mounting bracket (10).
- Install bolts (15) through top of bracket (10) and into pump mounting holes.
- Install nuts (15) onto bolts and tighten.
- Slide caster (8) mounting studs through the mounting bracket and reservoir assembly.
- Secure casters (8) with caster nut (4) and tighten.
- Refer to **FIGURE 2** and slide hose clamps (13) over each end of short reservoir hose (12).
- Insert garden hose thread (GHT) fitting (16) into end of short reservoir hose (12).
- Slide end of short reservoir hose (12) onto the barbed hose reservoir fitting (9). Tighten hose clamp (13).
- Slide end of short reservoir hose (12) onto the barbed pump fitting and tighten hose clamp (13)
- Position handle (5) in slot of mounting bracket and secure with bolts (11) on either side.
- Install adapter fitting (17) and extraction hose (14) onto pump and tighten.
- Place filter screen (2) on the reservoir.

