

WORKHORSE

S P R A Y E R S

a Division of Green Leaf, Inc.®

Assembly / Operation Instructions / Parts

40/60 GALLON UTV SPRAYER

PATENT
#10,405,475



*These sprayers are designed to be attached to a stable surface.

MODELS # UTV42, UTV65, UTV425HM, UTV657HM, UTV65BLHM

40/60 GALLON UTV SPRAYER

- Polyethylene Tank
- 12 Volt Diaphragm Pump
- 2.2 or 5.0 G.P.M.
- Lever Handgun
- 25 Ft. of 3/8" Hose
- Pressure Gauge
- Adjustable Pressure Range

— GENERAL INFORMATION

The purpose of this manual is to assist you in assembling, operating and maintaining your lawn and garden sprayer. Please read it carefully as it furnishes information which will help you achieve years of dependable trouble-free operation.

— WARRANTY / PARTS / SERVICE

Workhorse products are warranted for one year from the date of purchase against manufacture or workmanship defects for personal or homeowner usage with proof of purchase. Workhorse products are warranted for 90 days for commercial users. Any unauthorized modification of a Workhorse brand sprayer will void warranty.

Your authorized dealer is the best source of replacement parts & service. To obtain prompt, efficient service, always remember to give the following information:

1. Correct part description and part number.
2. Model number of your sprayer.

Part description and part numbers can be obtained from the illustrated parts list section of this manual.

Whenever you need parts or repair service, contact your distributor/dealer first. For warranty work always take your original sales slip, or other evidence of purchase date, to your distributor / dealer.

— ASSEMBLY INSTRUCTIONS

Tools required:

- 1 — 1/2" Socket Wrench
- 1 — Thread Sealant

WARNING: Some chemicals will damage the pump valves if allowed to soak untreated for a long period of time. Always flush the pump with water after use. Do not allow chemicals to sit in pump for extended times of idleness. Follow chemical manufacturers instructions on disposal of all waste water from the sprayer.

— OPERATION

The pumping system draws solution from the tank, through the strainer and to the pump. The pump forces the solution under pressure to the spray wand.

The pump has a pressure switch which will shut the pump off when it reaches 60 PSI/2.2 GPM or 45PSI/5.0 GPM

Pressure may be regulated by opening or closing the bypass valve located on the top of the tank. The more it is opened, the lower the pressure will be.

Regularly inspect the suction supply screen on the inside of the tank. Flush with water to clear any accumulated debris.

— AFTER SPRAYING

After use fill the sprayer part way with water. Start the sprayer and allow clear water to be pumped through the plumbing system and out through the spray wand.

Refill the tank about half full with plain water and use a chemical neutralizer such as Nutra-Sol® or equivalent and repeat cleaning instructions. Flush the entire sprayer with the neutralizing agent. Follow the chemical manufacturer's disposal instructions of all wash or rinsing water.

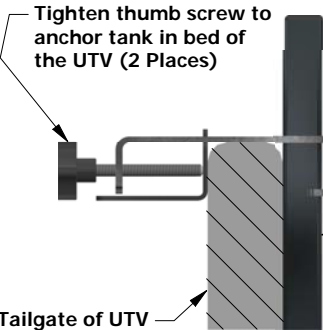
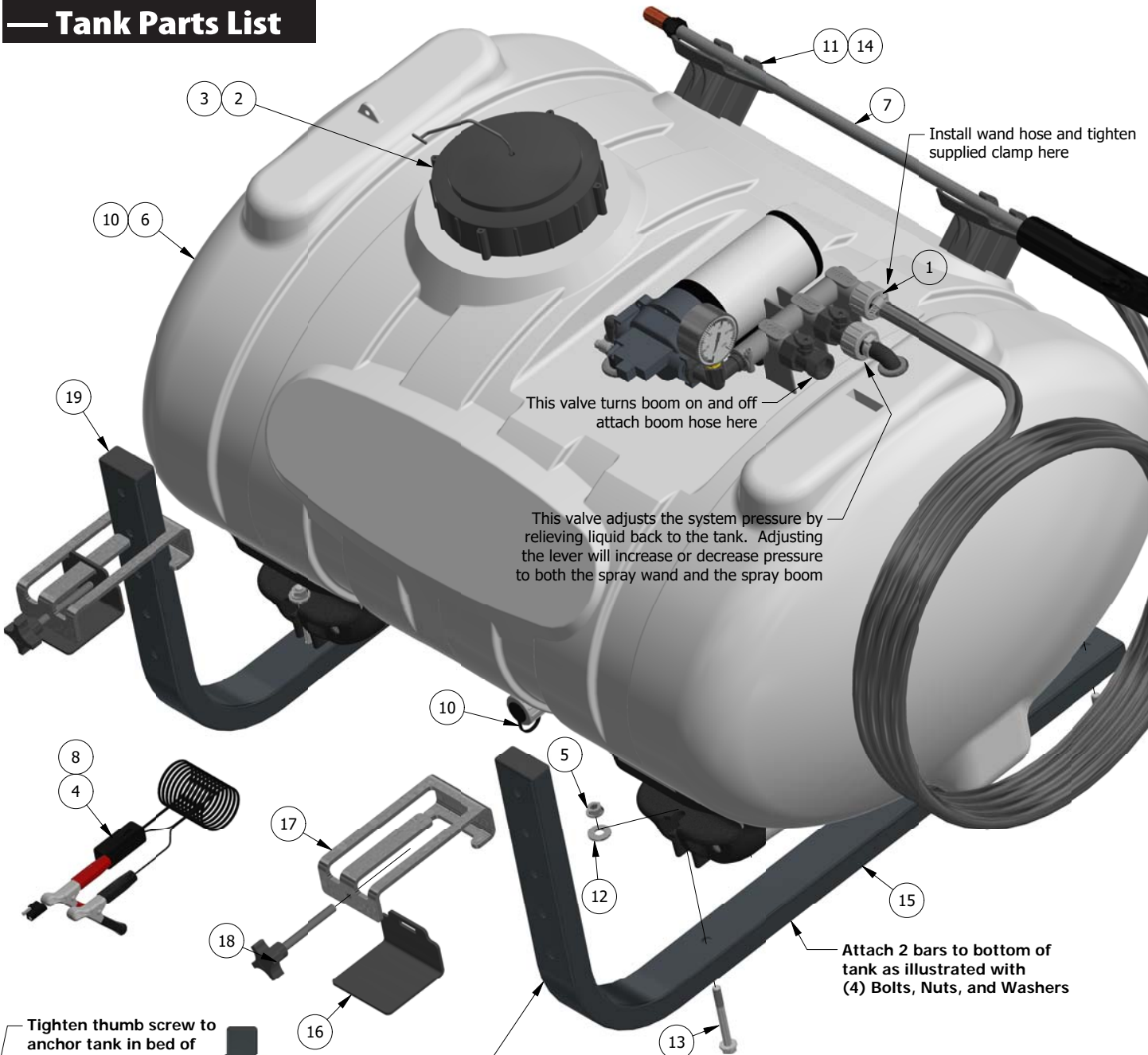
— WINTER STORAGE

Drain all water and chemical out of sprayer, paying special attention to pump and valves. These items are especially prone to damage from chemicals and freezing weather.

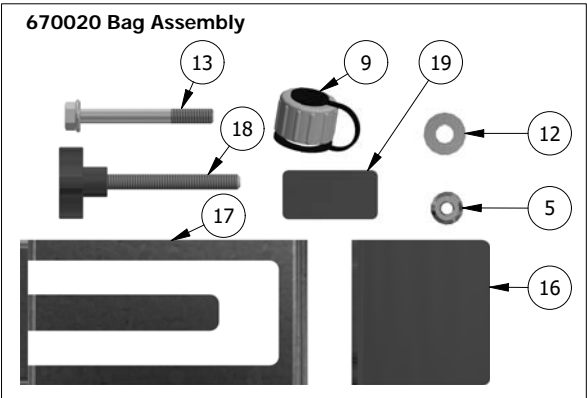
The sprayer should be winterized before storage by pumping a solution of RV antifreeze through the entire plumbing. Proper care and maintenance will prolong the life of the sprayer.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. www.P65Warnings.ca.gov

— Tank Parts List

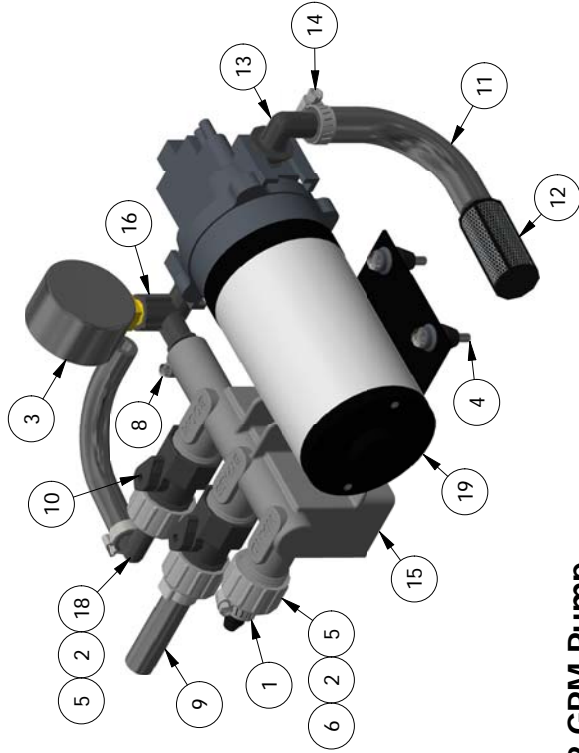


*Dependant On Model Purchased
(670001 Bag assembly supplied with 2.2 pump models.
(670002 Bag assembly supplied with 5.0 pump models.)



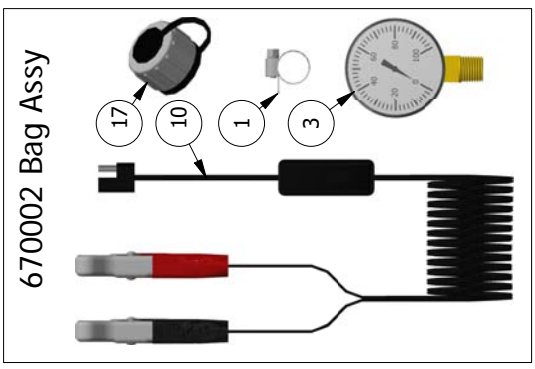
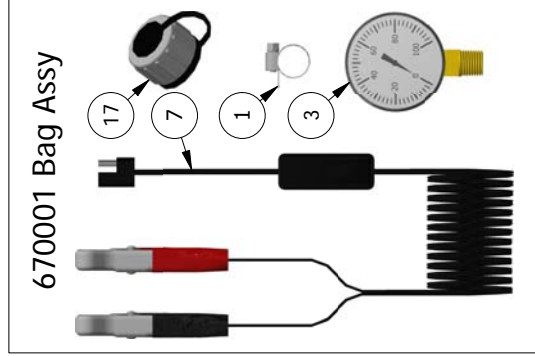
ITEM	QTY	PART#	DESCRIPTION
1	1	600120	5/8" Hose Clamp (670001 or 670002)
2	1	600133	Tank Lid
3	1	600134	Tank Lid Tether
4	1	600153	2.2 gpm Pump Wire Kit* (670001)
5	4	600172	5/16-18 UNC Hex Flange Nut (670020)
6	1	600240	40 Gallon Tank*
7	1	600259	Deluxe Wand with 25ft Hose
8	1	600270	5.0 gpm Pump Wire Kit* (670002)
9	2	600298	Drain Cap Assembly (670020, 670001 or 670002)
10	1	640000	60 Gallon Tank*
11	2	640105	Hose Wrap
12	4	640422	Washer 5/16" Wide φ7/8 (670020)
13	4	640423	5/16-18 x 2 3/4" Flange Cap Screw (670020)
14	2	640458	10-24 x 1/2" Truss Head Screw
15	2	640463	Bottom Bar - Bent
16	2	640464	Adjusting Clip Slide (670020)
17	2	640465	Adjusting Clip (670020)
18	2	640482	Adjusting Knob 5/16-18 Thd. (670020)
19	2	640485	1x2 Rectangular Cap (670020)

— Pump & Valve Assembly



2.2 GPM Pump

PARTS LIST	
ITEM	QTY
PART# DESCRIPTION	
1	1
2	3
3	1
4	4
5	3
6	2
7	1
8	1
9	1
10	2
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1



PARTS LIST	
ITEM	QTY
PART# DESCRIPTION	
1	1
2	3
3	1
4	4
5	3
6	2
7	1
8	1
9	2
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1



3300 Series: 2.2 GPM

PUMP INFORMATION:

Type - 3 chamber diaphragm pump, self priming, capable of being run dry

Pressure Control - Demand

Liquid Temperature - 140°F (60°C) Max.

Priming Capabilities - 8 feet (2.4 m)

Max Pressure - 200 PSI (14 bar)

Inlet/Outlet Ports - 3/4" Quick Attach

Weight - 6 lbs (2.7 kg)

MOTOR INFORMATION

Leads - 14 AWG, 7" long with 2-Pin

Temperature Limits - Motor is not equipped with thermal protection. For user safety, optimal performance, and maximum motor life, the motor surface temperature should not exceed 180°F (82°C)



3200 Series: 3.2-4.0 GPM

PUMP INFORMATION:

Type - 3 chamber diaphragm pump, self priming, capable of being run dry

Pressure Control - Demand

Liquid Temperature - 140°F (60°C) Max.

Priming Capabilities - 10 feet (3 m)

Max Pressure - 100 PSI (6.9 bar)

Inlet/Outlet Ports - 3/4" Quick Attach

Weight - 5 lbs (2.3 kg)

MOTOR INFORMATION

Leads - 14 AWG, 7" long with 2-Pin

Temperature Limits - Motor is not equipped with thermal protection. For user safety, optimal performance, and maximum motor life, the motor surface temperature should not exceed 180°F (82°C)



5500 Series: 4.0-5.3 GPM

PUMP INFORMATION:

Type - 5 chamber diaphragm pump, self priming, capable of being run dry

Pressure Control - Demand

Liquid Temperature - 140°F (60°C) Max.

Priming Capabilities - 14 feet (4 m)

Max Pressure Capabilities - 150 PSI (10 bar)

Inlet/Outlet Ports - 3/4" Quick Attach

Weight - 8 lbs (3.62 kg)

MOTOR INFORMATION

Leads - 14 AWG, 7" long with 2-Pin

Temperature Limits - Motor is not equipped with thermal protection. For user safety, optimal performance, and maximum motor life, the motor surface temperature should not exceed 180°F (82°C)

Installation and Operation Precautions

- The pump is equipped with a pressure sensing demand switch that controls the maximum operating pressure.
- In addition, never subject the pump to pressures above factory set/max pressure rating.
- As long as there is inlet water pressure, the pump will not stop forward flow of water even if the motor is turned off. Be sure the system has positive means of shutting off water supply.
- Do not operate pump in an explosive environment. Arcing from the motor brushes, switch or excessive heat from an improperly cycled motor may cause an explosion.
- Do not locate the pump motor near low temperature plastics or combustible material. The surface temperature of the motor may exceed 180°F (82°C).
- Do not pump gasoline or other flammable liquids. Pump head materials are designed for use with water only. Do not use with petroleum products.
- Do not assume fluid compatibility. If the fluid is improperly matched to the pumps' elastomers, a leak may occur.
- To prevent electrical shock, disconnect power before initiating any work. In the case of pump failure, the motor housing and/or pump fluid may carry high voltage to components normally considered safe. Therefore, always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an electrician. Electrical wiring should only be done by a qualified electrician per local and state electrical codes.

Servicing —

- Every Year: Check system against operating standards. Flush with clean water and store in warm dry place.
- Every 2-3 Years: We recommend replacing the valves and checking against operating standards.

Recommendations —

Electrical:

- The ProFlo™ series pumps are designed for intermittent duty. Make sure that "OFF" periods are sufficient. Consult the factory for particular data and design criteria.
- Be sure power supply used is adequate for the application.
- Pump and motor specifications are based on an alternator charged battery (13.6 VDC)
- Use sufficient battery supply power. UTV and lawn tractor batteries may affect pump performance due to low voltage and amp ratings
- **Rapid On/Off Cycling must be limited to no more than 6 times per minute, even if the pump is operating in the Continuous Duty zone. Cycling could cause the motor to heat beyond the recommended maximum temperature, and reduce the operational life of the pump and pressure-sensing switch.**

Important return safety instructions -

When returning your pump for warranty or repair, you must always do the following:

- Contact factory for RMA number.
- Flush chemical residue from the pump (best done in the field).
- Tag pump with type of chemicals having been sprayed.
- Include complete description of operation problem, such as how pump was used, symptoms of malfunction, etc. Since pumps can contain residues of toxic chemicals these steps are necessary to protect all the people who handle return shipments, and to help pinpoint the reason for the breakdown.