

WeedControl™ 12v Spot Sprayers

Instructions for Assembly, Operation, Servicing & Storage

Part No: **12VSPT-TTI**



TransTank®
International

www.tti.com.au

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INTRODUCTION

Congratulations on the purchase of your 12 Volt Spot Sprayer. This sprayer has been manufactured to provide years of dependable and efficient use in spraying a wide range agricultural pesticides, herbicides and other non-flammable liquids.

IMPORTANT NOTE:

IF YOU HAVE PURCHASED A COMPLETED BROADCAST SPRAYER, FOLLOW THE MOUNT AND BOOM KIT INSERT CARDS INCLUDED IN YOUR MANUAL AFTER YOU HAVE COMPLETED SPOT SPRAYER ASSEMBLY STEPS.

WARRANTY

Sprayers sold shall be warranted from defects in workmanship and material when used within the service and scope for which they were designed for a period of two years from date of purchase. Warranty covers replacement PARTS ONLY.

Contact our Spraying Division for warranty parts at 1800 816 277.

DO NOT RETURN PRODUCT TO YOUR DISTRIBUTOR/DEALER.

Please have original proof of purchase, model number of sprayer and part number of part from illustrated parts breakdown in this manual.

IMPORTANT NOTE:

THE PURPOSE OF THIS MANUAL IS TO ASSIST YOU IN THE ASSEMBLY, OPERATION, SERVICING AND STORAGE OF YOUR SPRAYER. PLEASE READ THROUGH THIS MANUAL COMPLETELY TOO FULLY UNDERSTAND HOW TO OPERATE AND MAINTAIN YOUR EQUIPMENT.

KEEP YOUR MANUAL IN A SAFE, CONVENIENT PLACE FOR FUTURE REFERENCE. ALWAYS MENTION THE MODEL AND PART NUMBER IN ANY CORRESPONDENCE.

TOOLS REQUIRED



Pliers



Phillips
Screwdriver



Teflon Tape

12V PUMP ASSEMBLY COMPONENTS



Pressure Regulator
Assembly (1) 33-
140118



Pressure Gauge (1)
1124DAB100



1/2" Snapper Hose
Clamp (1) SHC-H

CLOSELY INSPECT ALL CONTENTS IN THE SHIPPING CARTON

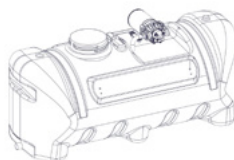
If you have damaged components:
**Contact the freight company that
delivered the unit to file a claim.**

If you have missing components:
Contact us at 1800 816 277

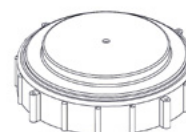
NOTE:

SOME PARTS ARE SHIPPED
INSIDE THE TANK!

SPOT SPRAYER COMPONENTS



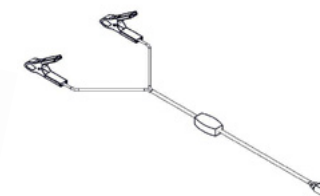
Sprayer Tank (1)



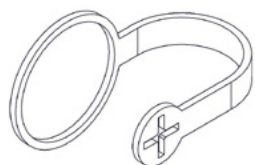
Tank Lid (1)
33-103221



Spray Gun Assembly (1)SG-
4507F or SG-2218-18



Wire Harness (1)33-
103233



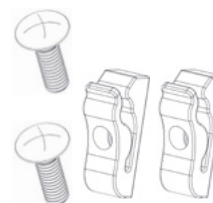
Drain Cap Tether (1)
33-103219



Drain Cap Gasket
(1) 33-103220



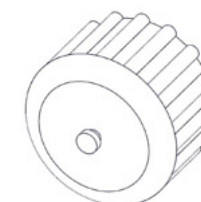
Tank Lid Tether
(1) 33-103222



Gun Clip Kit (1)
GC-100-KIT



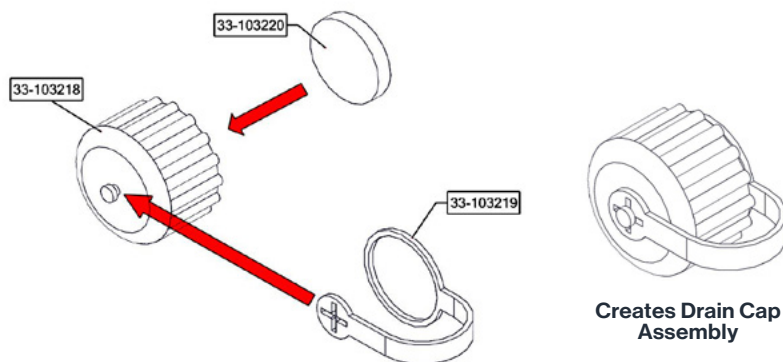
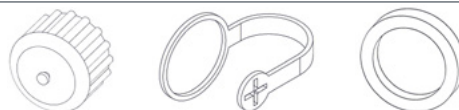
3/8" Snapper Hose Clamp (1)
SHC-F



Drain Cap (1)33-
103218



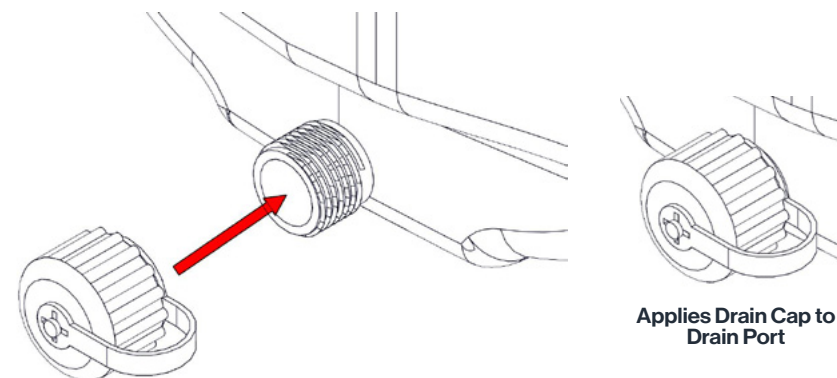
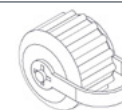
1 PARTS



Press the Drain Cap Gasket into the Drain Cap until fully seated.

Attach the Drain Tether to the top of the Drain Cap.

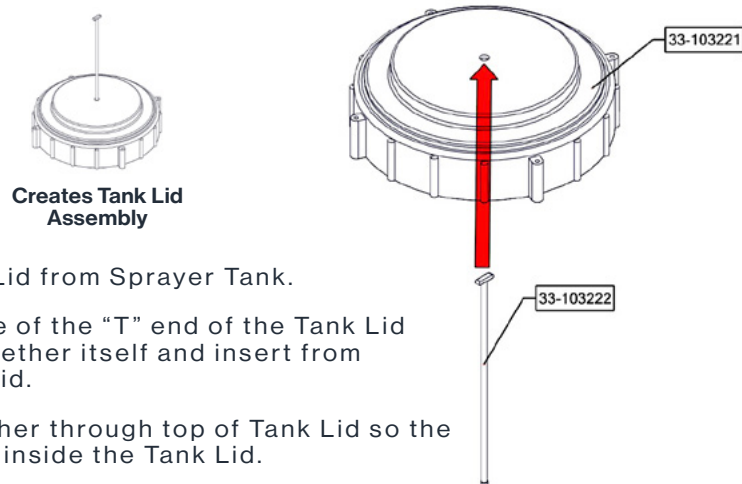
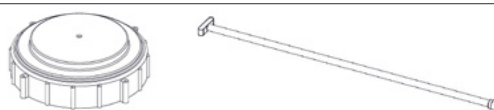
2 PARTS



Locate Sprayer Tank drain outlet.

Place other end of Tether over tank drain outlet. Thread Drain Cap over drain until hand tight.

3 PARTS

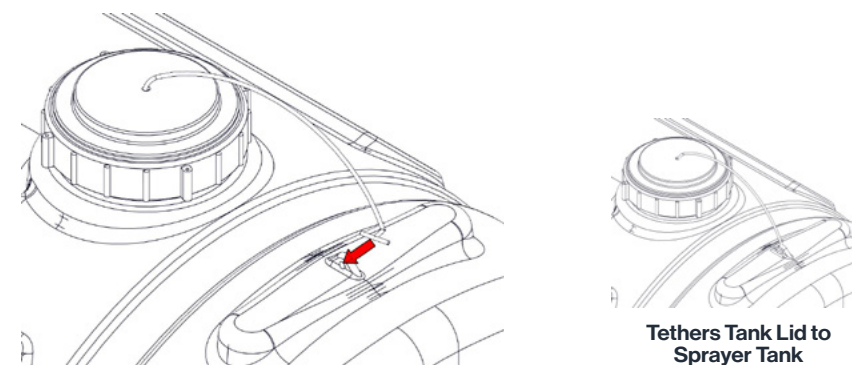


Un-thread Tank Lid from Sprayer Tank.

Fold the thin side of the "T" end of the Tank Lid Tether onto the tether itself and insert from bottom of Tank Lid.

Pull Tank Lid Tether through top of Tank Lid so the ball end remains inside the Tank Lid.

4 PARTS



Thread Tank Lid Assembly back onto the Sprayer Tank.

Thread the "T" end of Tether through the hole next to tank opening.

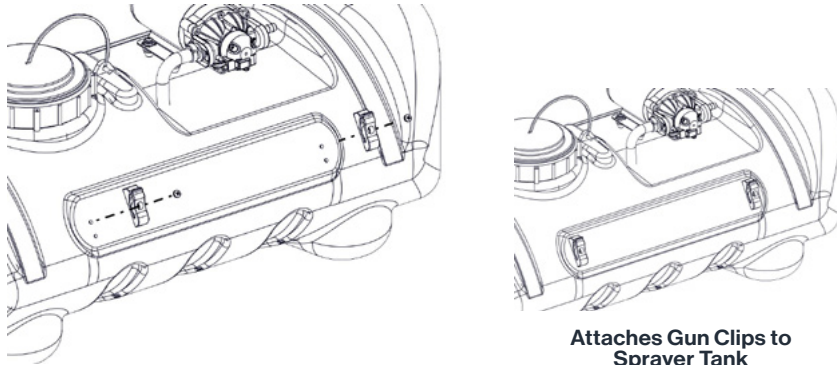


5

PARTS



TOOLS



Attaches Gun Clips to Sprayer Tank

Locate two screw holes on front of Sprayer Tank.

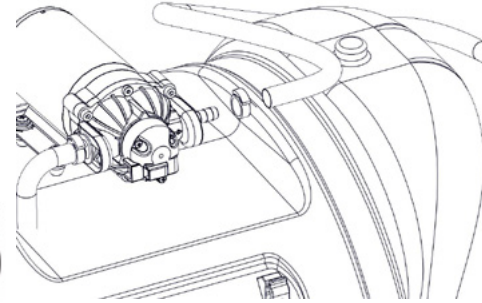
With screws, install Gun Clips to the front of Sprayer Tank. Be sure the open end is facing the top of the Sprayer.

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PARTS

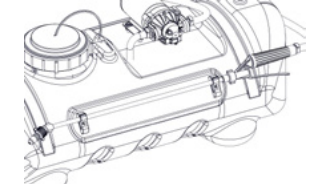


TOOLS



NOTE:

If you have a complete broadcast sprayer, skip this step and move on to step 7-9.



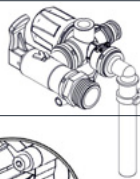
Attaches Gun Assembly to Sprayer

Locate the Spray Gun Assembly and connect the hose to the hose barbs coming out of the 12V Diaphragm Pump.

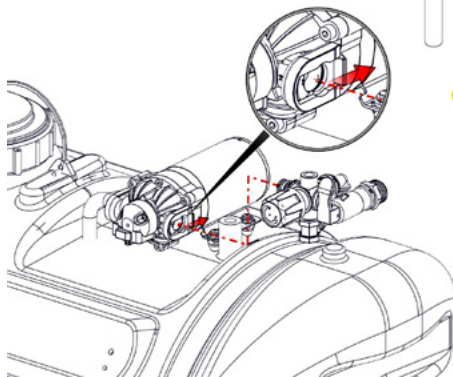
Secure with 3/8" Snapper Hose Clamp. Tighten with Pliers.

7

PARTS



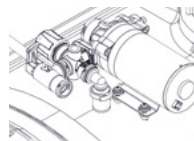
TOOLS



NOTE:

Connect Return Hose to the hose barb on the back of the Pressure Regulator Assembly.

Slip 1/2" Snapper Hose Clamp over Return Hose. Tighten with Pliers.



Installs Pressure Regulator Assembly

Slide locking clip on 12v Diaphragm Pump to open the port.

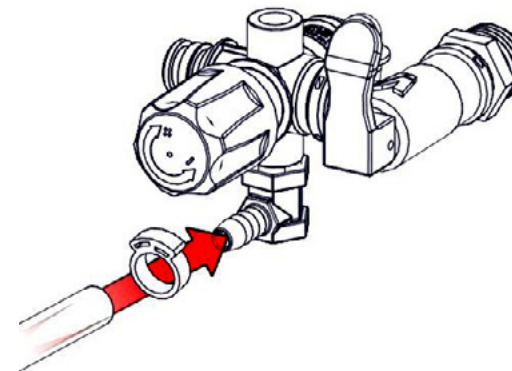
Insert the quick attach side of Pressure Regulator Assembly into open port. Slide locking clip into the "locked" position.

8

PARTS



TOOLS



Connects Spray Gun to Regulator

Slip the 3/8" Hose Clamp over the end of the Spray Gun Hose.

Push Spray Gun Assembly Hose onto the bottom hose barb of the Pressure Regulator Assembly and tighten the 3/8" Hose Clamp with Pliers.

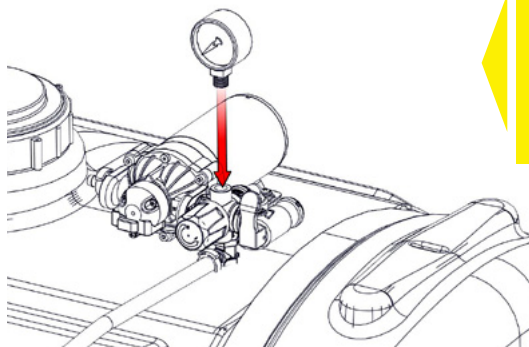


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PARTS



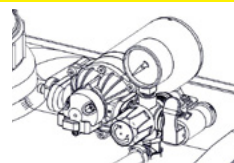
TOOLS



NOTE:

Make sure Pressure Gauge is well seated, being careful not to over tighten.

Make sure Pressure Gauge's front is facing forward with Pressure Regulator knob.



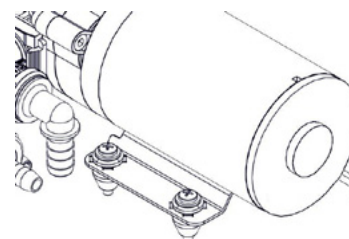
Installs Pressure Gauge

Screw the Pressure Gauge into the top of the Pressure Regulator Assembly. Take care not to cross-thread the Pressure Gauge.

Note: Teflon Tape will cause the thread to crack.

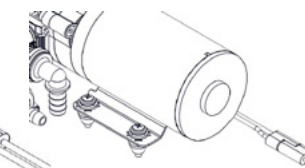
10

PARTS



NOTE:

Connecting wire harness clamps to opposite posts will cause the Pump to run backwards.



Connects Sprayer to Battery

Connect Wire Harness to 12v Diaphragm Pump by pushing the two-pin terminal connectors together.

Connect the red clamp to your battery's positive post and the black clamp to the negative post.

OPERATION - IMPORTANT SAFETY INFORMATION

Now that you have assembled your sprayer, there is some important safety and health information you need to know with regard to handling and spraying chemicals.



TAKE NOTE!

THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS SECTION IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PROPERTY DAMAGE, INJURY OR DEATH.

NOTE:

CONNECTING WIRE HARNESS CLAMPS TO OPPOSITE POSTS WILL CAUSE THE PUMP TO RUN BACKWARDS.

GENERAL CHEMICAL SAFETY



WARNING

Pesticides are hazardous chemicals. Heed the warning below and follow all instructions carefully. Improper handling of chemicals can result in serious injury or illness, or cause damage to humans, animals or the general environment.

BEFORE SPRAYING

Sprayer Prep: ALWAYS inspect and prepare the sprayer before use according to the directions provided in this manual

Keep Sprayer Off: Do not turn power on to the sprayer until ready to spray in order to avoid unintentional spray release

Broadcast Nozzle Down: Make sure the broadcast nozzle is oriented to spray straight down before starting the sprayer

Wind Speed: NEVER spray when wind exceeds 4 MPH in order to minimize spray drift

Clear Area: ALWAYS keep work area clear of people and pets. Post warning notices to restrict access by the public for the period recommended on chemical label

Operator Age: To operate this sprayer, you must be 16 years of age or older. Pesticides are extremely toxic to children

Chemical Label: ALWAYS READ and FOLLOW all chemical label instructions

State & Federal Laws: ALWAYS refer to state and federal regulations with regard to the application of a particular chemical you plan to use

Flammables: NEVER use any flammable chemicals, such as diesel fuel, in the sprayer

Corrosives: DO NOT use corrosive chemicals, such as bleach, in the sprayer. They can weaken the sprayer and its parts, resulting in leaks. Always check with chemical manufacturer for compatibility with sprayer

Emergency Procedures: Before handling chemicals, carefully review the "Statement of Practical Treatment" on the chemical label.

DURING SPRAYING

Over Application: DO NOT over apply pesticide. Apply at a rate recommended by chemical manufacturer. Excess pesticide can be dangerous to humans, damage desirable plants, and contaminate soil and water sources

Never Point Spray Gun: NEVER point the spray gun at people or animals

Children & Pets: ALWAYS exercise extra caution when spraying near areas accessible to children and pets

Eating & Smoking: DO NOT eat, drink, smoke, rub your eyes or touch any part of your bare skin while handling chemicals and spraying

Heat & Flames: DO NOT spray near open flames or sources of heat

Spills: ALWAYS clean up spills immediately per instructions on the chemical label

Unattended: ALWAYS turn off vehicle and set brake or block wheels, turn off power to sprayer, and relieve system pressure before leaving sprayer unattended

AFTER SPRAYING

Clean Sprayer: ALWAYS clean the sprayer immediately after use according to the directions provided in this manual

Decontaminate: ALWAYS decontaminate yourself immediately after you are finished with spraying and handling chemicals. Wash all exposed areas of the body with soap and water. Remove and launder clothing

Chemical Disposal & Storage: ALWAYS dispose or store remaining chemicals properly as recommended on the chemical label

Health Monitoring: Monitor the health of operators who are frequently exposed to pesticides, as recommended by the chemical label.



WARNING

Chemical spills, sprayer leaks, personal contamination, and poisoning are accident situations which you may encounter. All require an immediate response. In the event these accidents take place, follow first aid instructions on the chemical label and contact poison control for further advice (1-800-222-1222).

If victim collapses or isn't breathing CALL 911.

OPERATION PREPARING & USING SPRAYER

If the sprayer has been used previously, it must be prepared BEFORE EACH SUBSEQUENT USE.



WARNING

Read the following instructions carefully for inspecting and using the sprayer. Damaged or clogged equipment could result in leaks or uncontrolled spray. Leaks could result in injury to the operator or bystanders from chemical exposure, or cause damage to the environment.

IMPORTANT NOTE:

THIS SPRAYER IS NOT CERTIFIED FOR USE IN DISPENSING POTABLE WATER OR OTHER CONSUMABLE LIQUIDS.

PREPARING SPRAYING

Review Safety Information: Review safety information in this manual and manufacturer chemical label before use

Sprayer Attachment: Ensure the sprayer is securely attached to the vehicle

Empty Tank: Ensure the sprayer has been thoroughly flushed and drained of all residual chemical prior to uses

Clean Suction Strainer: Clean suction strainer of any chemical residue with fresh water. USE RUBBER GLOVES for extra safety

Inspect & Test: Inspect the tank and components for any cracks or leaks. Replace any damaged parts. IMPORTANT: After any repair, ALWAYS test for leaks with water one final time before use

Check Drain Cap: Before filling tank, ensure drain cap at bottom of tank is securely tightened.

USING SPRAYER

Protective Equipment: ALWAYS wear protective equipment as directed on the chemical label

Assess Wind & Area Conditions: Before spraying, determine if wind conditions are suitable. DO NOT spray if wind speeds are greater than 4 MPH. DO NOT spray if bystanders are in the intended area and verify that area is in a well-ventilated outdoor area

Power Off: Before filling tank, make sure power to the sprayer and the vehicle is off and brakes are set to prevent unintended movement

Filling Tank: Remove sprayer tank lid and add chemical/water dilution ratios that are called out by chemical label. Ensure chemical is thoroughly mixed with a stirring device and then securely thread tank lid back on sprayer tank.

USING SPRAYER (CONTINUED)

Broadcast Boom Valve: Close broadcast boom valve to prevent accidental spray release

Turn On Power: Connect the wire harness to vehicle battery and turn the remote switch to the "On" position.

SPOT SPRAYER (CONTINUED)

Spot Spraying: To spot spray, pull the gun trigger. Make sure nozzle of gun is pointed towards vegetation in need of spraying

Adjustable Nozzle: Twist the spray nozzle to adjust from a straight stream to wide pattern mist

Note: It is not unusual for the operator to be exposed to chemical drips while adjusting the nozzle – use chemical resistant gloves when twisting.

BROADCAST SPRAYING

Open Boom Valve: Open up boom valve to allow flow from tank to boom kit

Ensure Correct Pattern: Make sure boom nozzle is pointed straight down. If not, loosen the nozzle retaining nut and adjust orientation of the boom nozzle opening to point straight down.

Note: It is not unusual for the operator to be exposed to chemical drips while adjusting the broadcast nozzle. Chemical resistant gloves should be worn

Open Boom Valve: Open up boom valve to allow flow from tank to boom kit

Uniform Coverage: To ensure proper coverage, follow the separate boom kit manual that came with your sprayer

Broadcast Spraying: Turn the remote switch to the "ON" position to begin spraying.

OPERATION

CLEANING, DECONTAMINATING & STORAGE

When done using the sprayer, it is always important to clean the sprayer and decontaminate yourself. Do not store the sprayer with chemicals in the tank, as it is unsafe and could also result in damage.



WARNING

Clean-up and decontamination procedures must be followed after each use. Improper equipment clean-up and disposal of chemicals can result in dangerous chemical exposure to humans and the environment, as well as equipment damage.

Personal decontamination is required after spraying to minimize unsafe exposure to chemicals and potential illness.

CLEANING & DECONTAMINATING SPRAYER

Drain Tank: If there is excess pesticide left in tank, drain into a suitable container.

Note: when draining pesticides, be sure to wear protective gear such as rubber gloves and eye protection for increased safety

Unused Chemical: Properly store or dispose of unused chemical in its original, suitable container and make sure to follow chemical manufacturer's recommendations and according to local hazardous waste disposal regulations

Flush Sprayer: Flush sprayer per the chemical manufacturer's recommendations

Decontaminate & Launder: Decontaminate yourself after handling chemicals by removing clothing worn, washing exposed body parts with soap and water, and laundering clothing separately from other wash.

SPRAYER STORAGE

Prepare the sprayer for end-of-season storage by running RV anti-freeze through the system. This will keep internal parts lubricated, protect against corrosion, and keep the unit from freezing.

WARNING

ALLOWING YOUR SPRAYER TO FREEZE, WITHOUT TAKING PROPER WINTERIZATION STEPS, VOIDS YOUR WARRANTY.



WARNING

The sprayer will be damaged if it freezes. Protect the sprayer from freezing during storage by following instructions below.

PREPARING SPRAYER FOR STORAGE

Spray Briefly: Turn on the pump motor and squeeze the gun trigger briefly until fluid sprays out.

REMOVING SPRAYER FROM STORAGE

Flush with Water: Fill tank with fresh water and have it run through system. Operate spray gun and boom until the system is completely flushed.

TROUBLESHOOTING

Here you will find troubleshooting steps for some of the most common issues users have with sprayers.



WARNING

Clean-up and decontamination procedures must be followed after each use. Improper equipment clean-up and disposal of chemicals can result in dangerous chemical exposure to humans and the environment, as well as equipment damage.

Personal decontamination is required after spraying to minimize unsafe exposure to chemicals and potential illness.

BEFORE ATTEMPTING TO SERVICE SPRAYER

Personal Protective Equipment: Wear personal protective equipment as directed on the chemical label while servicing sprayer.

Review Troubleshooting Table: Review the troubleshooting table to the right for the type of problem you are experiencing. DO NOT attempt to repair until reading remaining steps listed below are followed

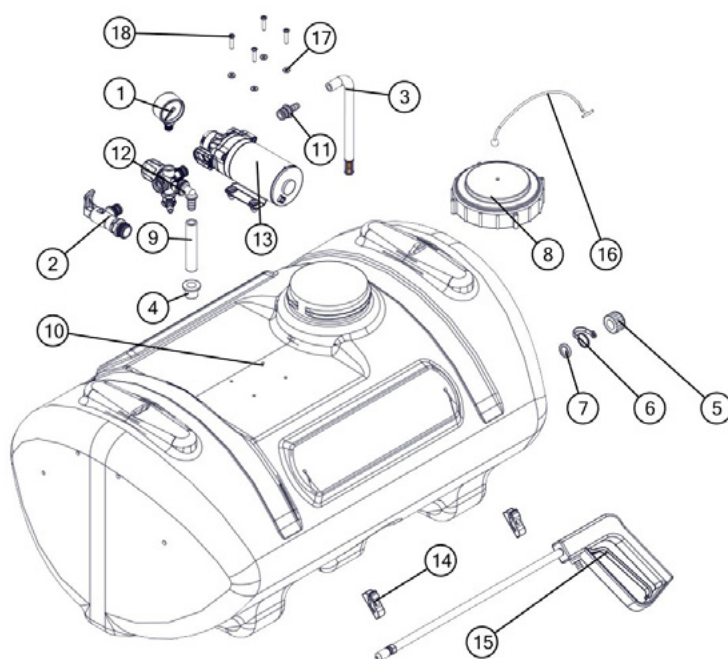
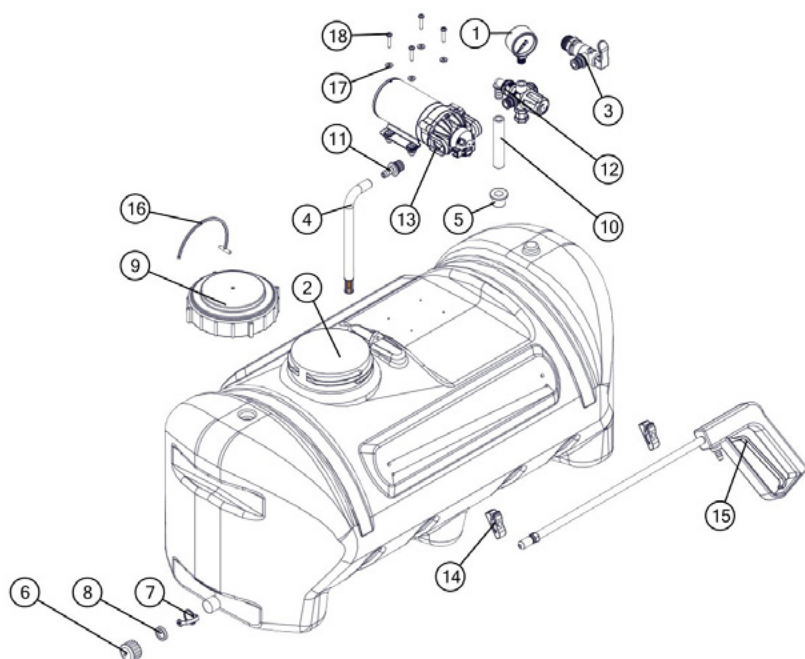
Empty & Flush Tank: Empty the tank and flush the sprayer with water as directed in the section Cleaning, Decontaminating & Storage

Disconnect Power/Relieve Pressure: Disconnect power to the sprayer and be sure all system pressure is relieved by squeezing the gun trigger

Perform Repairs: Follow the directions provided in the troubleshooting table to repair the sprayer. Note: Never try to unclog the sprayer nozzle by blowing through it

Test after Repairs: After repairs, ALWAYS test the sprayer for leaks with fresh water before using.

Problem	Cause	Solution
Pump Will Not Turn On	Bad Electrical Connection	Check Battery Connections
	Fuse Blown	Replace Fuse
	Short In Wire	Check Condition of Wires
	Low Voltage	Check Voltage
	Locked Drive	Replace Diaphragm Assembly
Pump Will Not Prime	Faulty Pressure Switch	Replace Pressure Switch
	Out of Product	Refill Supply Container
	Inlet Air Leak	Tighten Fittings or Replace Cracked Fittings
	Inlet/Outlet Tube Obstruction	Remove Obstruction
	Clogged Intake Valve	Remove Obstruction
Low Pressure or Flow	Low Voltage	Check Voltage
	Worn Spray Gun Nozzle	Replace Spray Gun
	Worn Boom Nozzle	Replace Boom Nozzle
	Worn Wobble Plate or Diaphragm	Replace Diaphragm Assembly
	Worn Pressure Switch	Replace Pressure Switch
	Inlet Air Leak	Tighten Fittings or Replace Cracked Fittings
	Inlet/Outlet Tube Obstruction	Remove Obstruction
	Clogged Intake Valve	Remove Obstruction
	Low Voltage	Check Voltage
Pump Leaks	Loose Fasteners	Tighten Fasteners
	Pump Seals Degraded	Replace Pump Head Assembly
	Leak In Diaphragm	Replace Diaphragm Assembly
Poor Spray Distribution	Clogged Intake Tube	Remove Obstruction
	Clogged Suction Strainer	Clean Suction Strainer
	Worn Spray Gun Nozzle	Replace Spray Gun
Pump Cycles While Not Spraying	Leak In the System	Tighten Leaking Hose Clamps, Fittings or Replace Spray Gun
	Faulty Pressure Switch	Replace Pressure Switch
	Low Voltage	Check Voltage
Rough Operation	Air Trapped In System	Purge Air From System
	Flexible Mounting Surface	Mount Pump On Rigid Surface
	Loose Pump Head	Tighten Fasteners
	Compressed Base Feet	Decompress Base Feet
	Rigid Plumbing	Plumb Pump with Flexible Plumbing



BOM ID	Part Number	Description	Qty
1	1124DAB100	GUAGE, 2" ABS	1
2	33-103230-TTI	TANK, SPOT, 25 GALLON, SAFETY GREEN	1
3	34-140161	ON/OFF, MALE QA X FEMALE QA PORTS	1
4	33-103133	HOSE ASSEMBLY, 3/8" X 21', W/FIL	1
5	33-100098	GROMMET, TOP HAT, BLACK, 3/4" HB. 1/2" HOSE	1
6	33-103218	OUTLET CAP, 3/4" BLACK	1
7	33-103219	Tether, Drain Short Black	1
8	33-103220	Gasket, 3/4" SuperSeal	1
9	33-103221	Lid, Tank, 5"W .25" Hole	1
10	33-103622-5	HOSE, RUBBER, EPDM, 1/2" ID X 5" LONG, 13/16" OD	1
11	EF-QC-A38	FITTING, QA X 3/8"HB, BLACK, STRAIGHT	1
12	34-140158	REGULATOR, ASSY, SPRAYER, MINUS OUTLET	1
13	EF-2200-QA	PUMP, 2.2GPM, 12V, EVERFLO, QUICK ATTACH PORTS	1
14	GC-100-KIT	CLIP, GUN (PAIR)	2
15	SG-5524-18-3/8FPT	SPRAY GUN, 18' BARRELL	1
16	33-103222	Lanyard, Lid Short Black	1
17	33-103131	WASHER, #10, ZINC	4
18	33-103760	SCREW, MACHINE, 10-24 x 1-1/8", PAN HEAD	4

BOM ID	Part Number	Description	Qty
1	1124DAB100	GUAGE, 2" ABS 1/4" LM 100PSI	1
2	34-140161	VALVE, ON/OFF, MALE QA X FEMALE QA PORTS	1
3	33-103121	STRAINER, INLET, 3/8" HB, 1/2" HOSE	1
4	33-100098	GROMMET, TOP HAT, BLACK, 3/4" HB. 1/2" HOSE	1
5	33-103218	OUTLET CAP, 3/4" BLACK	1
6	33-103219	Tether, Drain Short Black	1
7	33-103220	Gasket, 3/4" SuperSeal	1
8	33-103221	Lid, Tank, 5"W .25" Hole	1
9	33-103622-5	HOSE, RUBBER, EPDM, 1/2" ID X 5" LONG, 13/16" OD	1
10	33-103245-TTI	TANK, 40GAL, SAFETY GREEN	1
11	EF-QC-A38	FITTING, QA X 3/8"HB, BLACK, STRAIGHT	1
12	34-140158	REGULATOR, ASSY, SPRAYER, MINUS OUTLET	1
13	EF-2200-QA	PUMP, 2.2GPM, 12V, EVERFLO, QUICK ATTACH PORTS	1
14	GC-100-KIT	CLIP, GUN (PAIR)	1
15	SG-5524-18-3/8FPT	SPRAY GUN, 18' BARRELL	1
16	33-103222	Lanyard, Lid Short Black	1
17	33-103131	WASHER, #10, ZINC	4
18	33-103760	SCREW, MACHINE, 10-24 x 1-1/8", PAN HEAD	4

*Not Included with 15 Gallon Deluxe Spot Sprayers

PLEASE FOLLOW ALL WARNINGS IN THIS MANUAL, FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE & INJURY



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Handbook online



TransTank®
International

www.tti.com.au