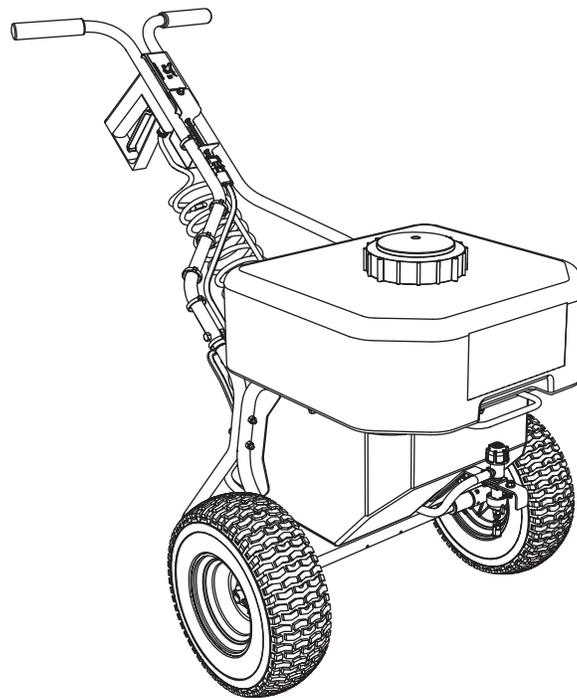




Walk-Behind Sprayer

TL-80 & TL-80SS

Owner's Manual and Installation Instructions
Original Instructions



⚠ CAUTION

**Read this document before operating or
servicing the sprayer.**

This document is for TurfEx® TL-80 and TL-80SS walk-behind sprayers beginning with serial numbers TG-300099 and higher, or TH-300099 and higher.

This document supersedes all editions with an earlier date.



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PREFACE

This manual has been prepared to acquaint you with the safety information, operation, and maintenance of your new walk-behind sprayer. Please read this manual carefully and follow all recommendations. This will help ensure profitable and trouble-free operation of your sprayer. Keep this manual accessible. It is a handy reference in case minor service is required.

When service is necessary, bring your walk-behind sprayer to your distributor. They know your sprayer best and are interested in your complete satisfaction.

Register your sprayer online at www.turfexproducts.com

OWNER'S INFORMATION

Owner's Name: _____

Date Purchased: _____

Outlet Name: _____ Phone: _____

Outlet Address: _____

Sprayer Type (Model): _____ Weight: _____ lb/kg

Sprayer Serial Number: _____

SAFETY

SAFETY DEFINITIONS

WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

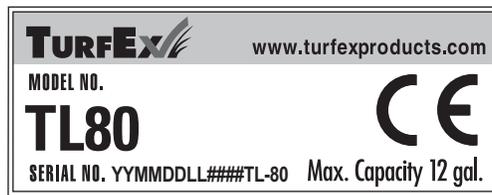
NOTE: Indicates a situation or action that can lead to damage to your sprayer and vehicle or other property. Other useful information can also be described.

LABELS

Please become familiar with the labels on the sprayer.

NOTE: If labels are missing or cannot be read, see your sales outlet.

Code	Definition
YY	2-Digit Year
MM	2-Digit Month
DD	2-Digit Day
LL	2-Digit Location Code
####	4-Digit Sequential Number
TL-80	Model Number
TL-80SS	Model Number



SAFETY

SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand labels and this Owner's Manual before installing, operating, or making adjustments.

⚠ WARNING

- Always make sure personnel are clear of areas of danger when using equipment.
- Before working with the sprayer, secure all loose-fitting clothing and unrestrained hair.
- Always wear safety glasses with side shields when servicing sprayer. Failure to do this could result in serious injury to the eyes.
- Do not climb onto or ride on sprayer.

⚠ CAUTION

- Do not operate a sprayer in need of maintenance.
- Before operating the sprayer, reassemble any parts or hardware removed for cleaning or adjusting.
- Before operating the sprayer, remove materials such as cleaning rags, brushes, and hand tools from the sprayer.

PERSONAL SAFETY

- Wear only snug-fitting clothing while working on your sprayer.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from dirt and dust.

NOISE

Airborne noise emission during use is below 70 dB(A) for the sprayer operator.

VIBRATION

Operating sprayer vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

SAFETY

CHEMICAL ACCIDENT PROCEDURES

Sprayer leak	If the sprayer develops a leak, immediately stop spraying. Turn OFF power to the sprayer and follow directions below, as applicable.
Bodily chemical contact	<p>Personal contamination can occur when chemicals splash, spill, or spray directly onto a person.</p> <ol style="list-style-type: none">1. Immediately follow First Aid instructions on chemical label. <p>General procedures can include:</p> <ol style="list-style-type: none">a. Eyes – immediately flush with water.b. Skin – wash all contaminated skin surfaces with soap and water.c. Clothing – remove contaminated clothing. Dispose of heavily contaminated clothing per chemical label instructions. <ol style="list-style-type: none">2. Seek medical advice if instructed on the label or the victim experiences symptoms of harmful effects. Bring the chemical label for reference.
Poisoning by ingestion or inhalation	<p>In case of poisoning from ingestion or inhalation:</p> <p>If the victim has collapsed or is not breathing, call 911. Otherwise:</p> <ol style="list-style-type: none">1. If you are the victim, immediately seek assistance from nearby personnel because you may become incapacitated.2. Immediately follow First Aid instructions on chemical label.3. Call a poison control center for further advice. In the U.S. call 1-800-222-1222. Have the chemical label available for reference.
Chemical spills	<p>Chemical spills must quickly be contained and properly cleaned up.</p> <p>Refer to the chemical label for any specific clean-up instructions.</p> <p>General procedures include:</p> <ol style="list-style-type: none">1. Controlling the spill by stopping the source of the spill.2. Containing the spill so that it does not spread and get into water sources.3. Cleaning up the spill immediately.4. Seeking additional advice from:<ul style="list-style-type: none">– Chemical manufacturer: See chemical label for contact information.– State pesticide regulatory agency: In the U.S., call the National Pesticide Information Center at 1-800-858-7378 for assistance in contacting your state agency.

SAFETY

DURING OPERATION

- Read and follow each chemical label's instructions and warnings.
- Avoid inhaling, ingesting, or coming into contact with any chemicals.
- Know applicable licensing and regulatory requirements for the chemical you plan to use.
- Know emergency procedures before handling chemicals. Carefully review the Chemical Accident Procedures listed in this Manual. Also, see First Aid instructions on the chemical label.
- Wear protective clothing, eye protection, and chemical resistant gloves when filling, using, and cleaning the sprayer. Wear additional protective gear, such as face masks or aprons, as recommended on the chemical label.
- Exercise extra caution around children and pets. Keep sprayer and spray materials away from them at all times.
- Do not mix or pour chemicals in an enclosed, unventilated area.
- Do not use flammable or corrosive chemicals in the sprayer.
- Flush the sprayer before switching chemicals in order to prevent dangerous chemical interactions.

BEFORE SPRAYING

- Inspect and prepare sprayer before each use as directed in this manual.
- Do not start sprayer until ready to spray in order to avoid unintentional spray release.
- Wear additional personal protective equipment if you will be spraying overhead. You will be exposed to much more mist or errant spray in these applications. Wear chemical resistant head and neck protection, full face mask or half-face mask with sealed goggles, and consider using a respirator.
- Do not spray when wind speed exceeds 4 miles per hour in order to minimize spray drift.
- Keep sprayer and spray materials away from children and pets.
- Do not allow anyone younger than 16 to operate sprayer.

SAFETY

DURING SPRAYING

- Do not over-apply. Apply at a rate recommended by the chemical manufacturer.
- Do not eat, drink, smoke, rub your eyes, or touch your bare skin while handling chemicals and spraying.
- Never point the spray gun at people or animals.
- Do not spray near open flames or sources of heat.
- Always hold the spray gun firmly when using it to spray at higher pressures in order to prevent gun from whipping. Keep good footing and balance at all times.
- Exercise extra caution when spraying near areas accessible to children and pets.
- Clean up spills immediately per instructions on the chemical label.
- Turn OFF sprayer and relieve system pressure before leaving sprayer unattended.
- See the Troubleshooting section of this manual before attempting any repairs. Wear personal protective equipment and follow safety instructions.

AFTER SPRAYING

- Clean sprayer immediately after use according to the directions provided in this manual.
- Decontaminate yourself after you are done spraying and have cleaned the sprayer. Wash all exposed areas of the body with soap and water, and remove and launder clothing.
- Dispose or store remaining chemicals in secure storage with correctly marked container.

TRANSPORTING SAFETY

- Exercise caution in vehicle handling when driving with sprayer to avoid loss of control or rollover.
 - Keep speed to a minimum so you can maintain control. Reduce speed prior to turns.
 - Allow for more distance to stop.
 - Avoid any sudden steering maneuvers, starts, or stops that could create liquid sloshing in the sprayer and instability.
- Slow down and exercise caution on sloped or uneven terrain.
- Turn OFF sprayer before leaving unattended.
- Do not attempt to lift with liquid in sprayer.

OPERATING THE SPRAYER

TIRE INFLATION

⚠ WARNING

Use safety glasses and gloves when inflating and installing the tires. Use manual pump only to inflate. Refer to the tire sidewall for manufacturer's recommended pressure. Do not exceed the maximum inflation pressure.

1. Tires are not fully inflated when shipped. Inflate tires with a manual pump.

SPRAYER OPERATION

⚠ CAUTION

Always use appropriate personal protective equipment, including gloves and safety goggles, when filling sprayer.

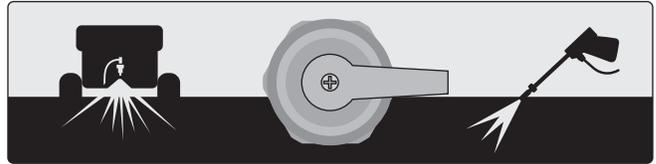


1. Be sure that the pump switch is in the "OFF" position.
2. Fill the sprayer with liquid through the port on the top of the tank.

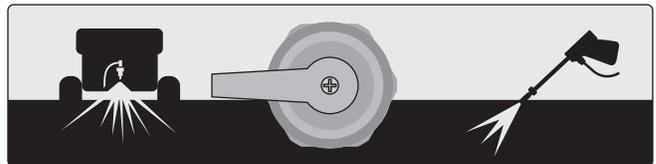
⚠ CAUTION

When using spray wand, never point it at objects (i.e. humans, vehicles, etc.). Keep at least 10 feet away from objects while using the spray nozzle.

3. Select the desired application method by turning the valve handle toward the appropriate icon:

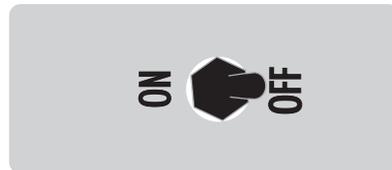


Turn toward the wand icon to use the spray wand.

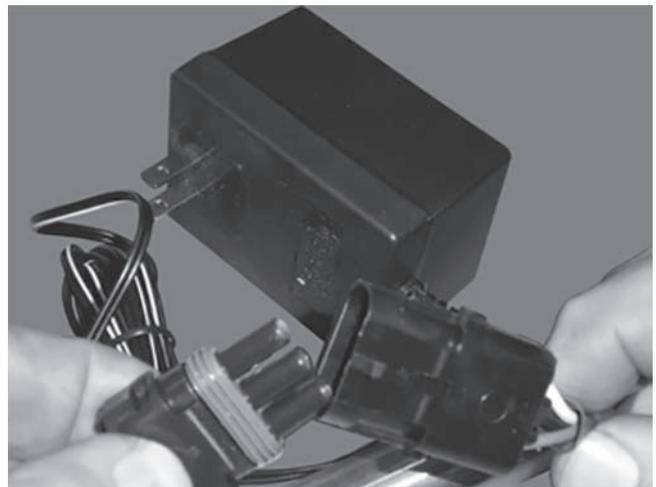


Turn toward the spray icon to use the front spray nozzle.

4. When ready to spray, turn the pump switch to the "ON" position. When done spraying, or when not moving or spraying, be sure to turn the pump switch to the "OFF" position.



5. Charge the battery after each use. Disconnect the harness and connect the battery charger as shown below. Then plug the charger into a 110 Volt outlet.



MAINTENANCE & TROUBLESHOOTING

MAINTENANCE

1. Grease axle zerks after every 20 hours of use.
2. When putting the unit into storage for the season, drain the tank and hose lines, and flush the pump.

TROUBLESHOOTING

Whenever service is necessary, the local TurfEx® dealer knows the sprayer best. Take the sprayer to the local dealer for any maintenance or service needs on the unit. If this is not possible, the troubleshooting guide below may assist in identifying the problem.

⚠ WARNING

Read all warning instructions and safety messages before servicing the sprayer.

Preliminary checks:

- Be sure all electrical connections are tight and clean.
- Be sure nothing is obstructing the nozzles.

PROBLEM	POSSIBLE CAUSE	SOLUTION
1. Pump doesn't run	Loose electrical connections	Check all connections
	Pump seized	Replace pump
	Electrical short	Check for bare wires
	Dead battery	Charge battery
2. Liquid not spraying	Empty tank	Fill tank
	Pump not running	Refer to Problem #1
	Obstructed nozzle	Remove and clean nozzle

CALIBRATION



Measurements	F50461 White Broadcast Nozzle				F50136 Green Broadcast Nozzle			
Ground speed (mph)	1.50	2.00	2.50	3.00	1.50	2.00	2.50	3.00
Capacity (gal)	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
Capacity (oz)	1536.00	1536.00	1536.00	1536.00	1536.00	1536.00	1536.00	1536.00
Ground speed (ft/min)	132.00	176.00	220.00	264.00	132.00	176.00	220.00	264.00
Spray width	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
oz sprayed per min	93.00	93.00	93.00	93.00	116.00	116.00	116.00	116.00
gal sprayed per min	0.73	0.73	0.73	0.73	0.91	0.91	0.91	0.91
Time to empty tank	16.52	16.52	16.52	16.52	13.24	13.24	13.24	13.24
Distance on one tank	2180.13	2906.84	3633.55	4360.26	1747.86	2330.48	2913.10	3495.72
ft ² per minute	1452.00	1936.00	2420.00	2904.00	1452.00	1936.00	2420.00	2904.00
ft ² per tank	23981.42	31975.23	39969.03	47962.84	19226.48	25635.31	32044.14	38452.97
Acres per tank	0.55	0.73	0.92	1.10	0.44	0.59	0.73	0.88
oz per ft ²	0.06	0.05	0.04	0.03	0.08	0.06	0.05	0.04
oz per 1000 ft ²	64.05	48.04	38.43	32.02	79.89	59.92	47.93	39.94
gal per 1000 ft ²	0.50	0.38	0.30	0.25	0.62	0.47	0.37	0.31
oz per acre	2792.56	2094.42	1675.54	1396.28	3483.2	2612.4	2089.92	1741.60
gal per acre	21.82	16.36	13.09	10.91	27.21	20.41	16.33	13.61

NOTE: The nozzle bracket at the front of the sprayer can be moved up or down to obtain the spray width shown in the table.

DISCLAIMER

It is the responsibility of the person using this equipment to make sure that every type of material is properly calibrated to perform as expected. This process should take place on a solid flat surface away from drains and livestock areas in order to achieve a safe and accurate reading for proper material distribution. Failure to do so may cause an over/under application that could damage turf areas or give an ineffective pest control treatment. Any calibration charts contained in this manual are given as a reference point only and should not be used as an absolute condition. Spending a few extra minutes to properly calibrate will not only save on wasted materials and time, but also protect turf and other vegetation. Below are several points to be aware of before operating your sprayer in the field.

- Flow rates of material can change for many reasons:
 1. Formulations vary within the same brand or even between brands.
 2. Formulations vary between batches or dates of manufacture.
 3. Poor sprayer maintenance can cause flow changes.
 4. Human error can cause rate miscalculation.

- Items needed for calibration:
 1. A way to catch the material for measuring.
 2. A device to measure distance.
 3. A bottle or bucket for measuring liquid.
 4. A stop watch or other means to measure time.





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