

This Manual Must be Read Before Operating The Equipment

Owner/Operator's Manual



INNOVATIVE TURF SOLUTIONS

FOR MODEL

TL80 Serial # TG-300099 and higher
TL80SS Serial # TH-300059 and higher



CUSTOMER COPY

Madison Heights, Michigan 48071
800-725-8377
www.turfexproducts.com

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Have a question or need assistance?

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General Information



CONGRATULATIONS!

The Turfex product you have purchased is an example of turf management product at its finest! Your Turfex product's, self contained design is a trademark of all Turfex products. Here's why...

SIMPLICITY: Fewer moving parts manufactured of higher quality means minimal maintenance for your Turfex product.

RELIABILITY: High impact linear low density polyethylene hopper, custom engineered powder coated or stainless steel frame.

VERSATILITY: Multi-use capability allows spreading of a variety of materials.

WARRANTY: Two years parts and labor from date of installation.

The benefits you are about to recognize are that of time, money and effort.
We welcome you to the world of Turfex Performance.

Registration

Record the following information in this manual for quick reference.

Spreader Model Number _____

Spreader Serial Number _____

Date of Purchase _____

Dealer Where Purchased _____

When ordering parts, the above information is necessary. This will help to insure that you receive the correct parts.

At the right is a diagram of the ID tag. This tag is located on the frame (where applicable).

Please fill out the warranty card with all the necessary information to validate it. This will also give us a record so that any safety or service information can be communicated to you.



This manual has been designed for your help. It will assist you and instruct you on the proper set-up, installation and use of this spreader.

Refer to the table of contents for an outline of this manual.

We require that you read and understand the contents of this manual completely (especially all safety information) before attempting any procedure contained herein. Extra copies of Owner/Operator Manuals can be purchased at your Turfex Dealer.



THIS SIGN SHOULD ALERT YOU:

The Society of Automotive Engineers has adopted this **SAFETY ALERT SYMBOL** to pinpoint characteristics that, if **NOT** carefully followed, can create a safety hazard. When you see this symbol in this manual or on the machine itself, **BE ALERT!** Your personal safety and the safety of others is involved.

Defined below are the **SAFETY ALERT** messages and how they will appear in this manual:



DANGER

(RED)

Information that, if not carefully followed, can cause death!



WARNING

(ORANGE)

Information that, if not carefully followed, can cause serious personal injury or death!



CAUTION

(YELLOW)

Information that, if not carefully followed, can cause minor injury or damage to equipment



Before attempting any procedure in this book, these safety instructions must be read and understood by all workers who have any part in the preparation or use of this equipment.

For your safety warning and information decals have been placed on this product to remind the operator of safety precautions . If anything happens to mark or destroy the decals, please request new ones from TurfEx.



Remember, most accidents are preventable and caused by human error. Exercising of care and precautions must be observed to prevent the possibility of injury to operator or others!

Never operate equipment when under the influence of alcohol, drugs, or medications that might alter your judgment and/or reaction time.

Before working with the spreader, secure all loose fitting clothing and unrestrained hair.

Always wear safety glasses with side shields when servicing spreader. Failure to do this could result in serious injury to the eyes.

Never attempt to lift a unit with liquid in it.

Never allow children to operate or climb on equipment.

Always check areas to be spread to be sure no hazardous conditions or substances are in the area. Always inspect unit for defects: broken, worn or bent parts, weakened areas on spreader.

Remember it is the owner's responsibility to communicate information on safe usage and proper maintenance of all equipment.

Always make sure personnel are clear of areas of danger when using equipment.

Never weld or grind on equipment without having a fire extinguisher available.

Inspect the unit periodically for defects. Parts that are broken, missing or worn out must be replaced immediately. The unit or any part of it can not be altered without prior written permission from the manufacturer.

Summary of Important Safety Information

Chemical accident procedures

Immediate response is necessary in the event of sprayer leaks, bodily chemical contact, poisoning, or spills. See instructions below:

| | |
|--------------------------------------|---|
| 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><u>General procedures can include:</u></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. 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, <u>call 911</u>. 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"> - <u>Chemical manufacturer</u>. See chemical label for contact information. - <u>State pesticide regulatory agency</u>. In the U.S., call the National Pesticide Info. Center. at 800-858-7378 for assistance in contacting your state's agency. |

Summary of Important Safety Information

Listed below is a summary of safety information of particular importance.
See individual sections of this owner's manual for more details.

DURING ASSEMBLY

Check and test completed assembly as directed in this manual. Serious injury could result from chemical leaks if sprayer is improperly assembled.

DO NOT MODIFY SPRAYER DESIGN

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 "Chemical Accident Procedures" listed below and later 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 mask or apron, 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 chemical fallout 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 four 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.

Summary of Important Safety Information

DURING SPRAYING

- Do not over-apply. Apply at rate recommended by 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

- Read safety instructions in your vehicle manual with regard to carrying heavy cargo loads.
- Do not allow drivers younger than 16 to drive the vehicle with the sprayer attached.
- Make sure sprayer is securely attached to vehicle.
- 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.
- Be aware that visibility may be reduced when making turns or backing up.
- Turn off sprayer before leaving unattended.
- Do not attempt to lift with liquid in sprayer

Sprayer Operation



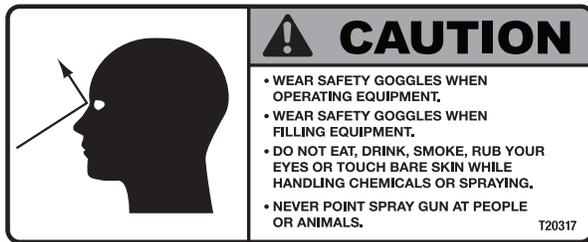
CAUTION

Always use gloves and safety goggles when filling sprayer.

STEP 1

Fill sprayer with material through top hole.

Always use gloves and safety goggles when filling sprayer.

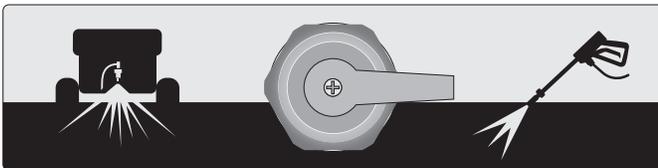


STEP 2

Place valve in position for desired use.

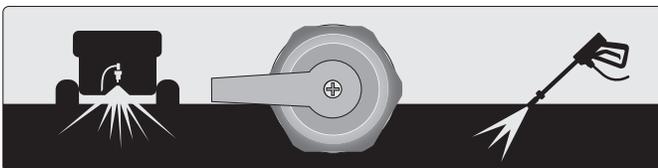
STEP 3

If using spray wand never point at objects (i.e.: humans, vehicles etc.)



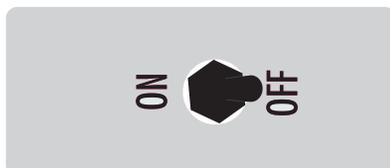
STEP 4

If using spray nozzle keep away from objects (i.e.: humans, vehicles etc.) at least 10 feet.



STEP 5

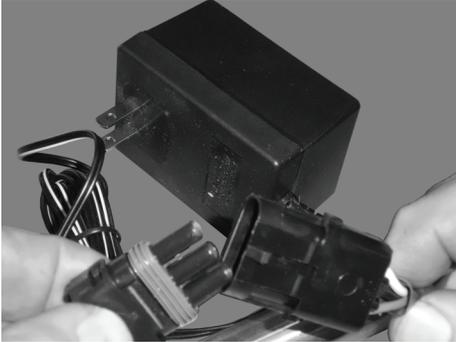
When not moving or spraying place switch in off position.



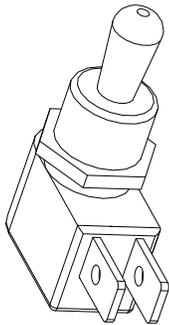
Sprayer Operation & Electrical Schematic



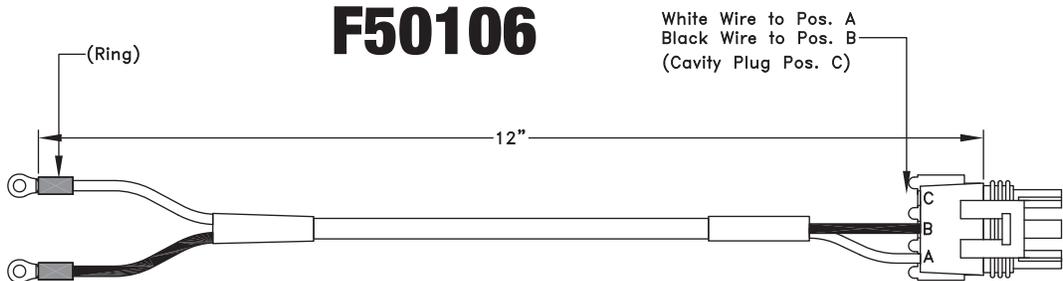
1) Charge battery after each use. Disconnect harness and connect to battery charger as shown below. Then plug charger into 110v outlet.



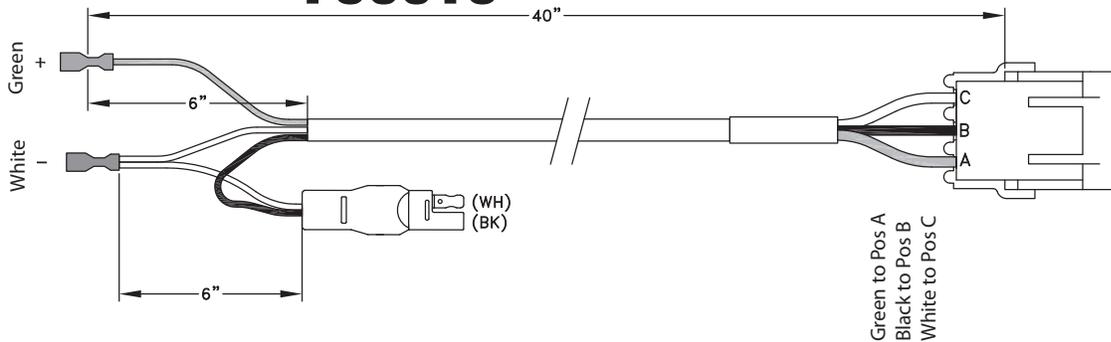
F50107



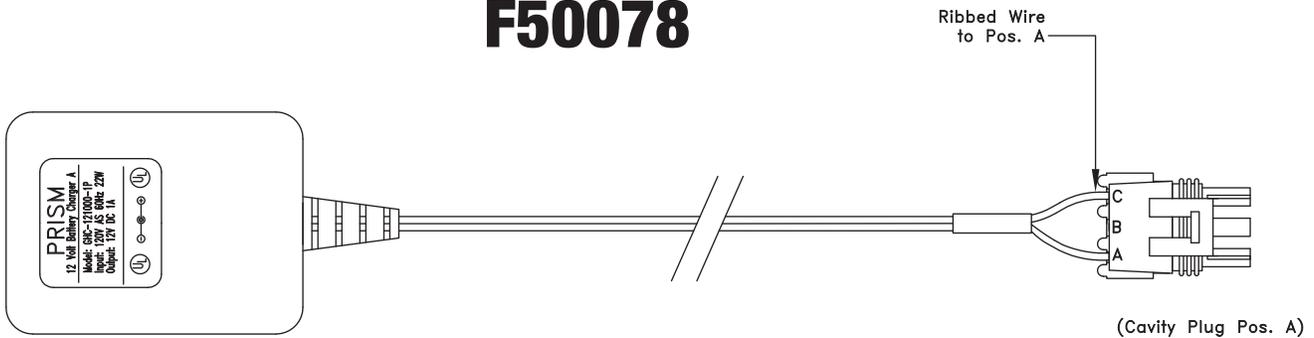
F50106



F50016



F50078



Troubleshooting & Maintenance



Whenever service is necessary, your local TurfEx Dealer knows your Sprayer best. Take your Sprayer to your local dealer for any maintenance or service needs on your unit. If this is not possible, the Troubleshooting Guide below may assist you in identifying the problem.

Warning: First read all warning instructions and safety messages before servicing your Sprayer.

Preliminary Checks

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

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

Maintenance:

- 1) Grease Axle zerks after every 20 hours of use.
- 2) When putting into storage for season drain tank and hose lines and flush pump.



| Measurements | F50461 White Broadcast Nozzle | | | | F50136 Green Broadcast Nozzle | | | |
|----------------------------|---------------------------------|-----------|-----------|-----------|---------------------------------|-----------|-----------|-----------|
| | 1.50 | 2.00 | 2.50 | 3.00 | 1.50 | 2.00 | 2.50 | 3.00 |
| Ground Speed (MPH) | 1.50 | 2.00 | 2.50 | 3.00 | 1.50 | 2.00 | 2.50 | 3.00 |
| Capacity (Gallons) | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 |
| Capacity (ounces) | 1,536.00 | 1,536.00 | 1,536.00 | 1,536.00 | 1,536.00 | 1,536.00 | 1,536.00 | 1,536.00 |
| 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 |
| Ounces Sprayed per Minute | 93.00 | 93.00 | 93.00 | 93.00 | 116.00 | 116.00 | 116.00 | 116.00 |
| Gallons sprayed per minute | 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 | 2,180.13 | 2,906.84 | 3,633.55 | 4,360.26 | 1,747.86 | 2,330.48 | 2,913.10 | 3,495.72 |
| Sq. Ft. per Minute | 1,452.00 | 1,936.00 | 2,420.00 | 2,904.00 | 1,452.00 | 1,936.00 | 2,420.00 | 2,904.00 |
| Sq. Ft. per Tank | 23,981.42 | 31,975.23 | 39,969.03 | 47,962.84 | 19,226.48 | 25,635.31 | 32,044.14 | 38,452.97 |
| Acres per Tank | 0.55 | 0.73 | 0.92 | 1.10 | 0.44 | 0.59 | 0.73 | 0.88 |
| Ounces per Sq. Ft. | 0.06 | 0.05 | 0.04 | 0.03 | 0.08 | 0.06 | 0.05 | 0.04 |
| Ounces per 1000 Sq. Ft. | 64.05 | 48.04 | 38.43 | 32.02 | 79.89 | 59.92 | 47.93 | 39.94 |
| Gallons per 1000 Sq. Ft. | 0.50 | 0.38 | 0.30 | 0.25 | 0.62 | 0.47 | 0.37 | 0.31 |
| Ounces per Acre | 2,792.56 | 2,094.42 | 1,675.54 | 1,396.28 | 3,483.20 | 2,612.40 | 2,089.92 | 1,741.60 |
| Gallons 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 get 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 spreader 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

2 YEAR PARTS LIMITED WARRANTY

TurfEx Gear Products are warranted for a period of two years to the end user with the original purchase receipt against defects in material or workmanship under normal use and service, subject to limitations detailed below. Warranty period of two years begins on the date of purchase by the original retail user.

This warranty applies to the original retail purchaser only. This warranty does not cover damages caused by improper installation, misuse, lack of proper maintenance, alterations or repairs made by anyone. Due to the extremely corrosive properties of the materials dispensed by TurfEx Equipment, TurfEx does not warrant against damage caused by corrosion / rust. To seek remedy under this warranty, contact TurfEx at (866) 588-7339 or email customercare@trynexfactory.com with original purchase receipt, company / contact information and describe the nature of the manufacturing defect. TurfEx reserves the sole right to determine if a manufacturing nonconformity is at the root cause and at its discretion will replace the part(s) at no charge provided the failure is not the result of incorrect installation, mishandling, misuse, tampering, or normal wear and tear as determined by TurfEx.

ITEMS NOT COVERED

This warranty does not cover the following:

- Any damage or deterioration due to normal use, wear and tear, or exposure.
- Cost of regular maintenance service or parts, such as; tires, belts, cables, spinners, filters, fuel, lubricants, tune-up parts, and adjustments.
- Any product or part which has been altered or misused or required replacement or repair due to normal wear.
- Any repairs necessary due to use of parts, accessories or supplies, including gasoline, oil or lubricants, spreading materials or spraying liquids, incompatible with the equipment or other than as recommended in the operator's manual or other operational instructions provided by TurfEx.

SPECIFIC LIMITATIONS

This warranty covers only the part(s) or product; any labor charges associated with repair or replacement of non-conformances are specifically excluded. Due to the extremely corrosive nature of fertilizer products, TurfEx makes no warranty against and specifically excludes part(s) or product degradation or failure due to corrosion or its effects. Clean and dry your spreader thoroughly after each use, as a preventative measure, coat all metal parts with a light oil or silicon spray.

LIMITATION OF LIABILITY

TurfEx, TrynEx International, or any company affiliated, makes any warranties, representations, or promises as to the performance or quality other than what is contained herein. The liability of TurfEx to the purchaser for damages arising out of the manufacture, sale, delivery, use, or resale of this product shall be limited to and shall not exceed the costs of repair or replacement of defective parts. TurfEx, TrynEx International, or any company affiliated shall not be liable for the loss of use, inconvenience, or any other incidental, indirect, or consequential damages.

NO DISTRIBUTOR OR DEALER HAS THE AUTHORITY TO MAKE ANY REPRESENTATIONS AND/OR PROMISES ON BEHALF OF TURFEX OR TRYNEX INTERNATIONAL OR ITS COMPONENT MANUFACTURERS TO ALTER AND/OR MODIFY THE TERMS AND/OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.

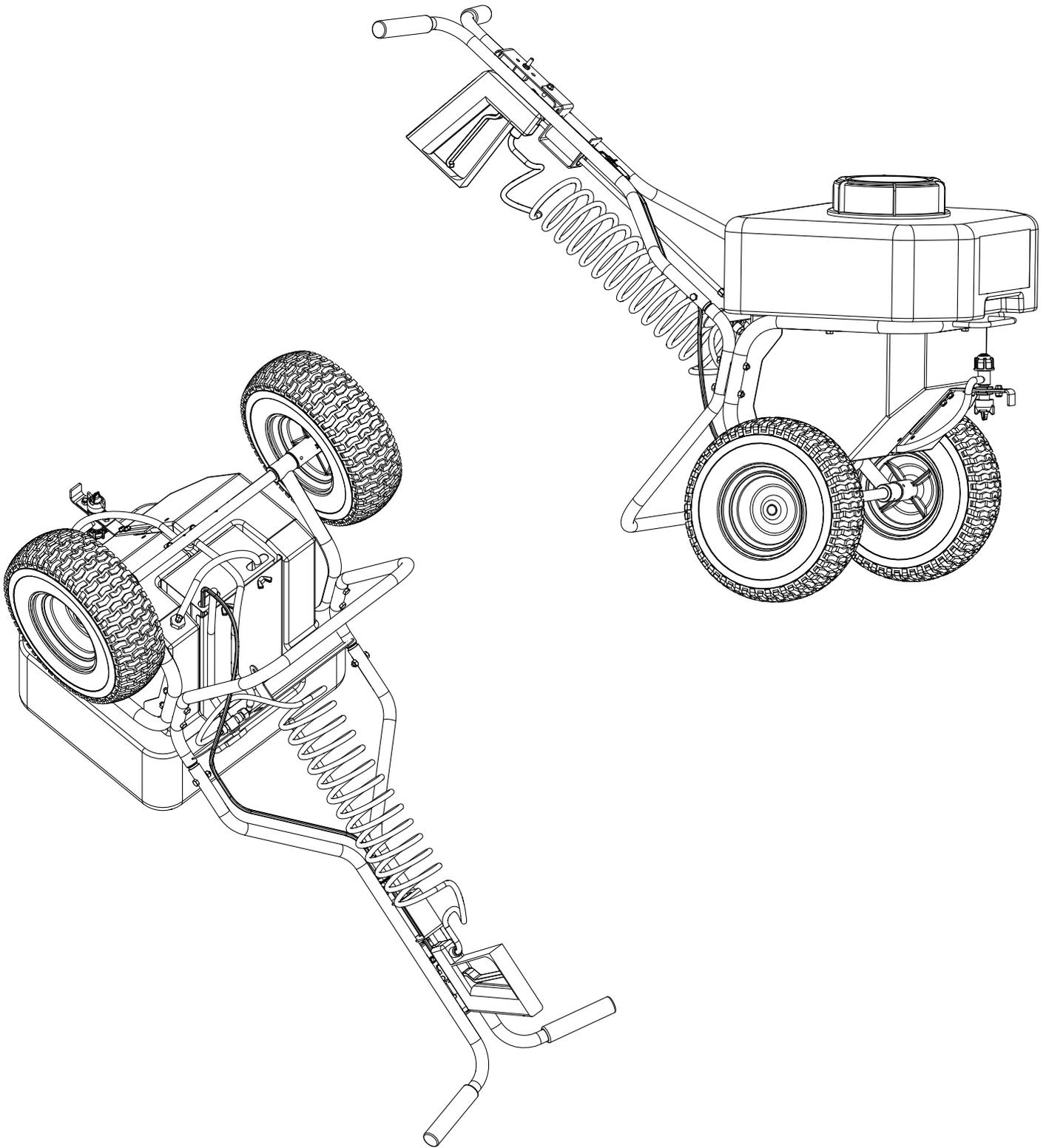
OWNER'S RESPONSIBILITY

- Only TrynEx genuine parts must be used to keep the warranty in force.
- Properly maintain and safely operate and store their TurfEx equipment.
- Due to the extremely corrosive nature of the materials being applied, it is the owner's responsibility to keep the product clean and free of these materials after use.
- Properly maintain belts, tires, filters, lubrication levels, and mechanical drives and delivery systems.
- Use the proper spreading materials for each model of spreader (spreading material should be free-flowing for best results).
- Do not store spreading materials in the spreader.
- Do not store liquids in the sprayer tanks.

Key to Parts



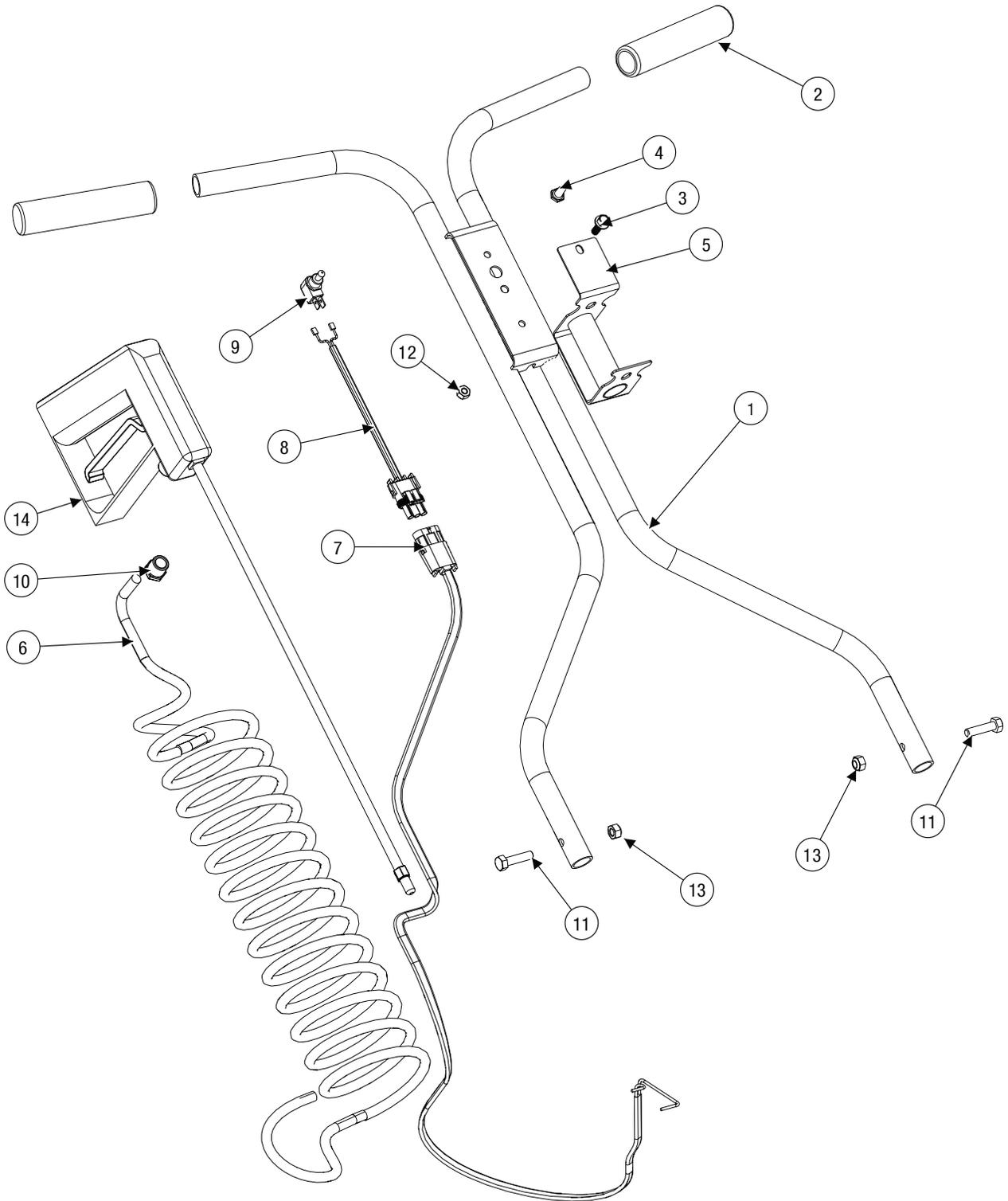
| | | | |
|--------|--|--------|--|
| D5377 | HOSE BARB, 1/2" MALE THREAD X 3/8" 90° | F50016 | HARNESS, PUSH SPRAYER PUMP |
| D5381 | HOSE BARB, 1/4" MALE THREAD X 3/8" | F50019 | BATTERY HOLD DOWN BRACKET, STAINLESS |
| D5384 | DECAL, QUALITY MADE IN THE USA FLAG | F50020 | WAND HOLDER BRACKET STAINLESS |
| D5901 | HOPPER FRAME, 2.0 CU. FT., PUSH SPREADER | F50021 | HOSE GUIDE BRACKET STAINLESS |
| D5904 | WHEEL, 13" X 5" | F50022 | PUMP MOUNT ENCLOSURE STAINLESS |
| D5906 | FRAME STAND | F50023 | PUMP ENCLOSURE COVER STAINLESS |
| D5908 | PUSH SPREADER HANDLE | F50024 | INSIDE NOZZLE BODY BRACKET, STAINLESS |
| D5915 | AXLE, 3/4" X 24.3 | F50025 | OUTSIDE NOZZLE BODY BRACKET, STAINLESS |
| D5917 | HANDLE GRIP, 7/8" X 5-1/2" | F50078 | BATTERY CHARGER, 12 VOLT 500 MA |
| D5919 | COTTER PIN, 3/16" X 2", STAINLESS | F50080 | DECAL, SPRAY / WAND, SL-80 |
| D5923 | WHEEL BUSHING NYLON | F50082 | WIRING ADAPTER ADD ON F50078 |
| D5943 | BOLT, 1/4"-20 X 2-1/4", HEX HEAD STAINLESS | F50098 | DECAL, ON / OFF, TL-80 |
| D5994 | GREASE FITTING STRAIGHT, 1/8" DRIVE ZINC | F50106 | HARNESS, PUSH SPRAYER SWITCH |
| D6131 | BOLT, 1/4-20 X 1/2, SERRATED FLANGE, STAINLESS | F50107 | SWITCH, SPST SIDE TERMINALS |
| D6132 | BOLT, 1/4-20 X 3/4, SERRATED FLANGE, STAINLESS | F50108 | TANK STRAINER |
| D6172 | BOLT, #10-32 X 5/8, SERRATED FLANGE, ZINC, W/PATCH | F50109 | RUBBER GROMMET, 5/8" |
| D6822 | CABLE TIE, 7" PUSH MOUNT 50LB | F50111 | REDUCING BUSHING, 3/8" X 1/4", BRASS |
| D6854 | BOLT, 1/4"-20 X 1" SERRATED, FLANGE STAINLESS | F50112 | BOLT, 5/16"-18 X 1-1/4", HEX HEAD STAINLESS |
| D6957 | SPRAY TIP CAP, GREEN NYLON | F50136 | SPRAY NOZZLE, 1.5 GPM, BROADCAST POLYMER |
| D6961 | NOZZLE SEAT GASKET | F50145 | HOSE CLAMP, 3/8, DOUBLE TOOTH POLY |
| D6988 | HOSE, 3/8" X 1" PVC CLEAR | F50288 | TANK, 12 GALLON MOCHA |
| F50000 | BATTERY HOLD DOWN BRACKET | F50461 | SPRAY NOZZLE, 0.8 GPM, BROADCAST POLYMER |
| F50001 | WAND HOLDER BRACKET | F50651 | PIPE PLUG, 1/2" POLY |
| F50002 | BATTERY, LEAD ACID 7.2, AMP HOUR | F50776 | OWNER'S MANUAL, TL80 & TL80SS |
| F50003 | HOSE GUIDE BRACKET | T15016 | NUT, 1/4"-20 NYLOX WAXED, STAINLESS |
| F50004 | PUMP MOUNT ENCLOSURE | T15018 | NUT, 5/16"-18 NYLOX WAXED, STAINLESS |
| F50005 | PUMP, 1.0 GPM DIAPHRAGM | T20307 | SPOT SPRAY WAND |
| F50006 | PUMP ENCLOSURE COVER | T20317 | DECAL, CAUTION, WEAR SAFETY GOGGLES |
| F50007 | INSIDE NOZZLE BODY BRACKET | T30151 | HOPPER FRAME, 2.0 CU. FT., PUSH SPREADER STAINLESS |
| F50008 | COIL HOSE 1/4" X 10' | T30152 | FRAME STAND STAINLESS |
| F50011 | 3-WAY PANEL MOUNT VALVE | T30153 | PUSH SPREADER HANDLE STAINLESS |
| F50012 | OUTSIDE NOZZLE BODY BRACKET | | |
| F50013 | HOSE BARB, 1/4" MALE THREAD, X 3/8 90° | | |
| F50015 | NOZZLE BODY, HOSE BARB 3/8" | | |



Handle Assembly Parts Breakdown

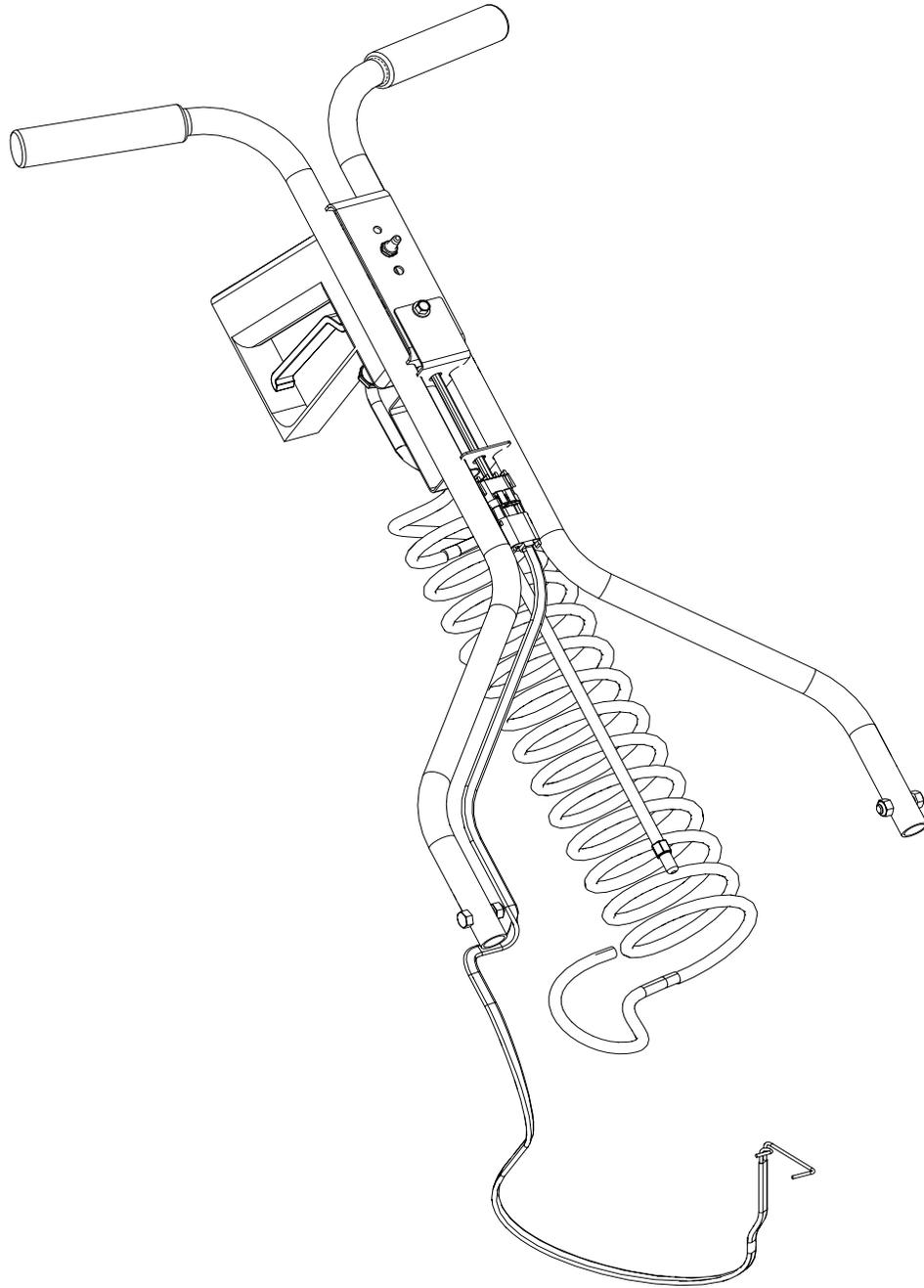


Model # TL80



Handle Assembly Parts Breakdown

Model # TL80



| BOM ID | Description | Qty |
|--------|-------------|-----|
| 1 | D5908 | 1 |
| 2 | D5917 | 2 |
| 3 | D6132 | 1 |
| 4 | D6406 | 1 |
| 5 | F50001 | 1 |

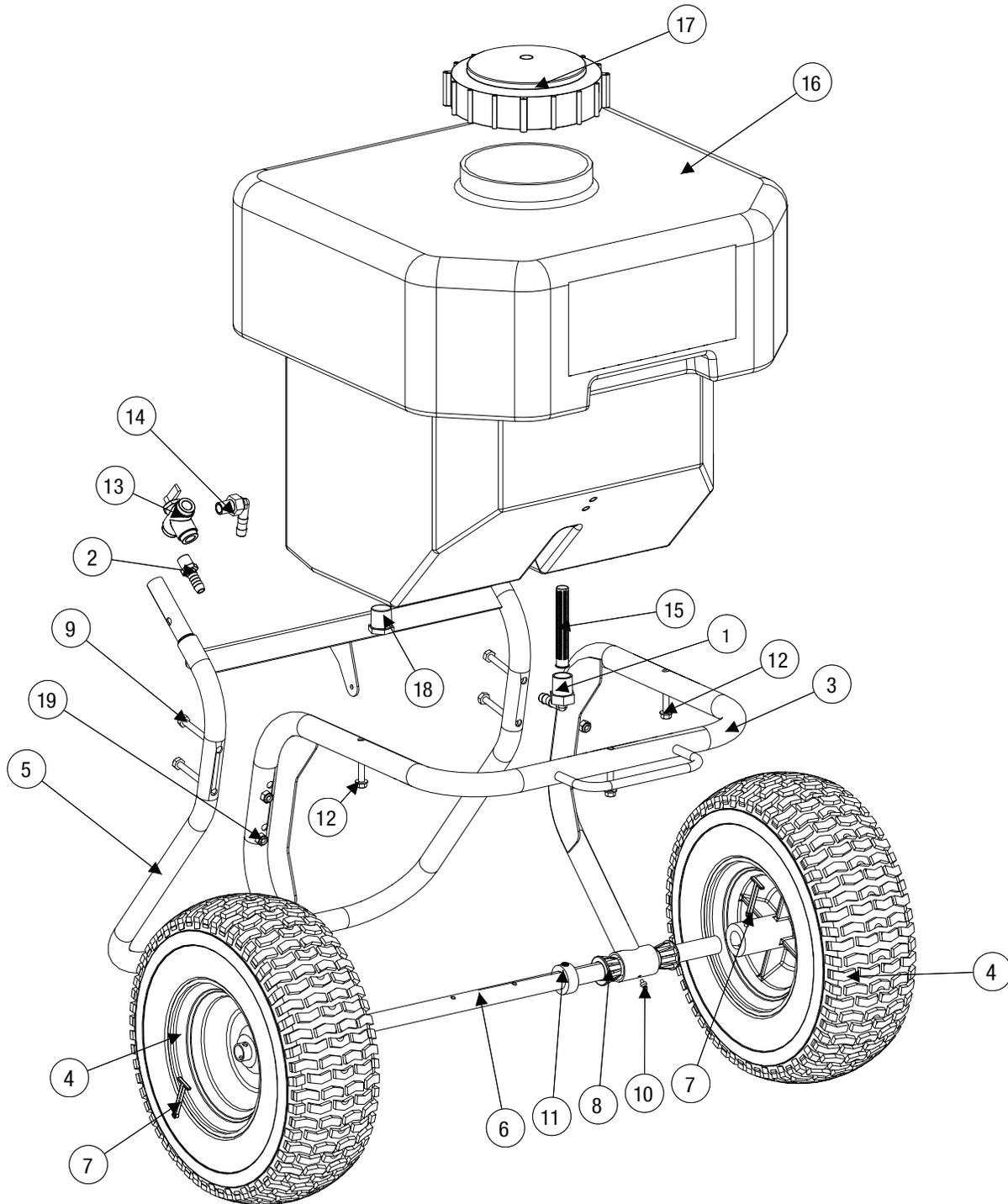
| BOM ID | Description | Qty |
|--------|-------------|-----|
| 6 | F50008 | 1 |
| 7 | F50016 | 1 |
| 8 | F50106 | 1 |
| 9 | F50107 | 1 |
| 10 | F50111 | 1 |

| BOM ID | Description | Qty |
|--------|-------------|-----|
| 11 | F50112 | 2 |
| 12 | T15016 | 1 |
| 13 | T15018 | 2 |
| 14 | T20307 | 1 |

Tank Assembly Parts Breakdown



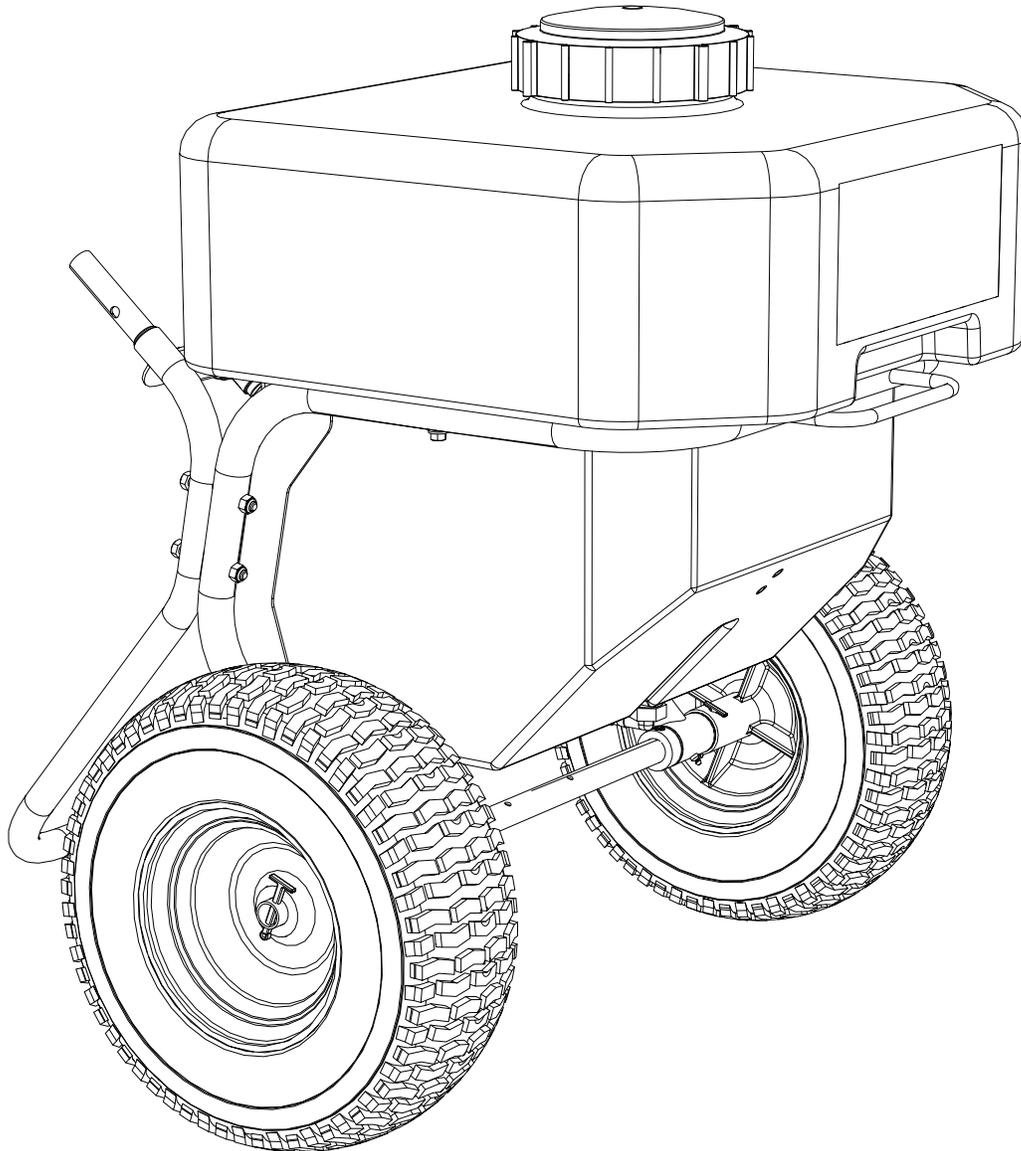
Model # TL80



Tank Assembly Parts Breakdown



Model # TL80



| ID # | Part # | Qty |
|------|--------|-----|
| 1 | D5377 | 1 |
| 2 | D5381 | 1 |
| 3 | D5901 | 1 |
| 4 | D5904 | 2 |
| 5 | D5906 | 1 |

| ID # | Part # | Qty |
|------|--------|-----|
| 6 | D5915 | 1 |
| 7 | D5919 | 2 |
| 8 | D5923 | 4 |
| 9 | D5943 | 4 |
| 10 | D5994 | 2 |

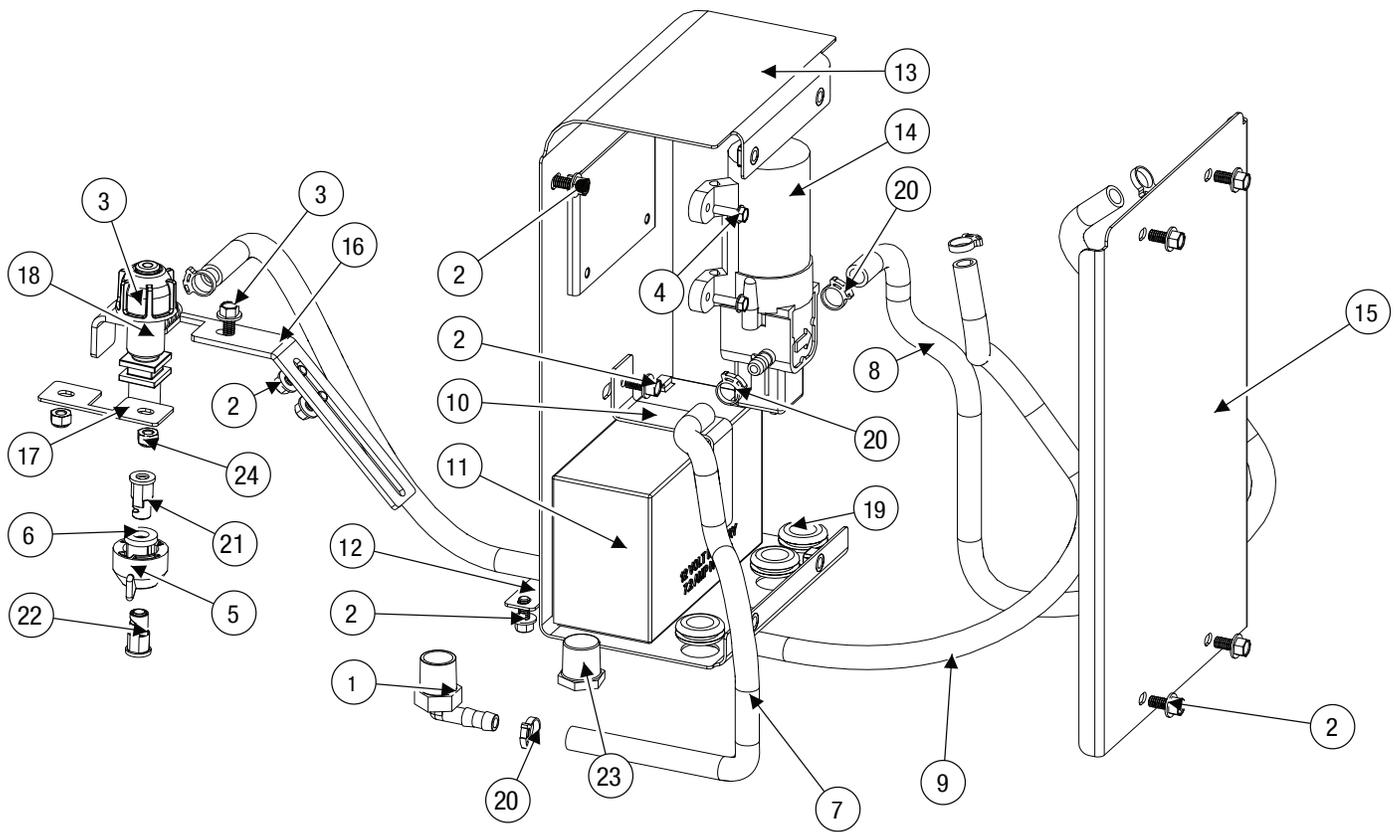
| ID # | Part # | Qty |
|------|--------|-----|
| 11 | D6024 | 2 |
| 12 | D6854 | 3 |
| 13 | F50011 | 1 |
| 14 | F50013 | 1 |
| 15 | F50108 | 1 |

| ID # | Part # | Qty |
|------|--------|-----|
| 16 | F50288 | 1 |
| 17 | F50487 | 1 |
| 18 | F50651 | 1 |
| 19 | T15016 | 4 |

Pump Assembly Parts Breakdown



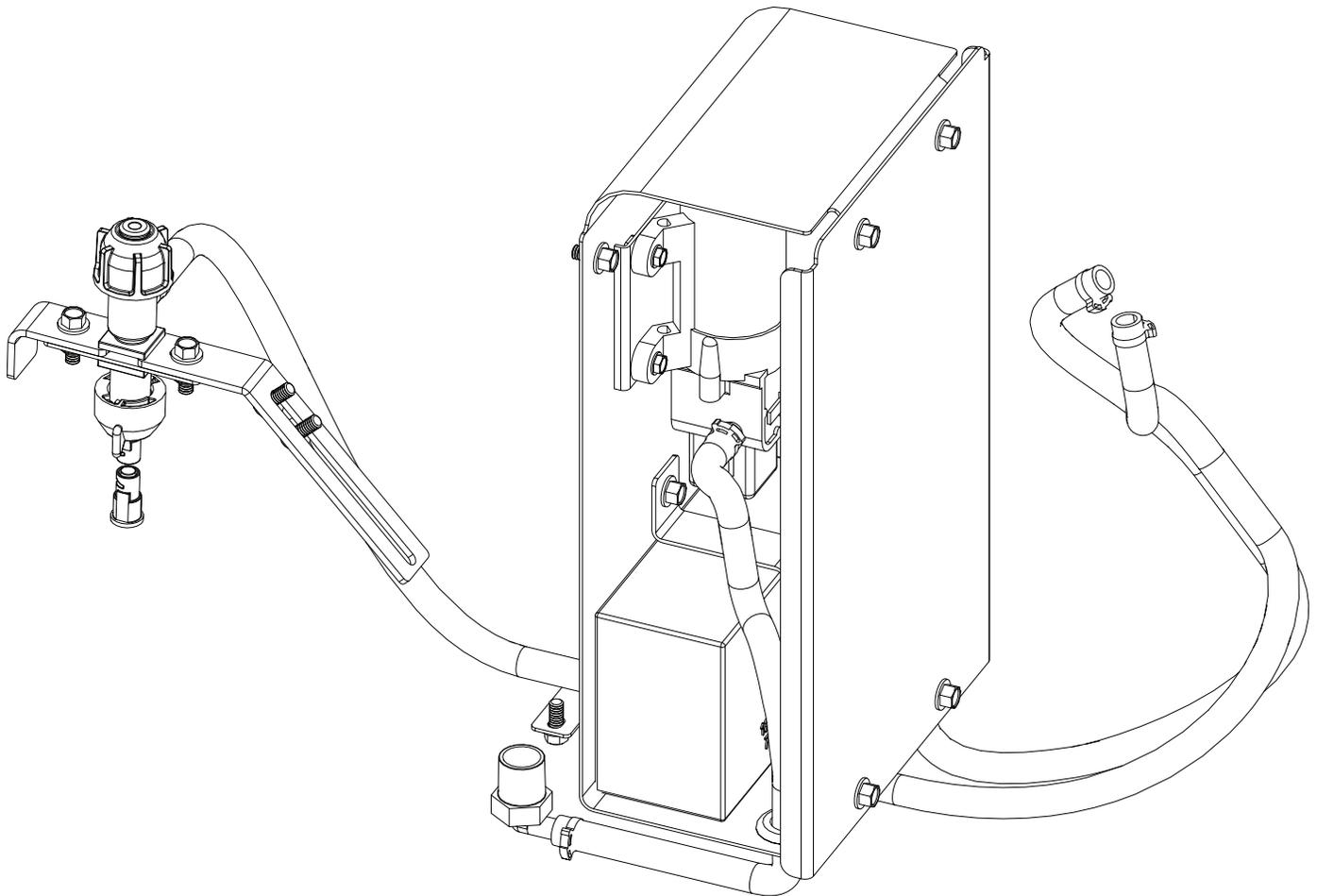
Model # TL80



Pump Assembly Parts Breakdown



Model # TL80



| BOM ID | Description | Qty |
|--------|-------------|-----|
| 1 | D5377 | 1 |
| 2 | D6131 | 11 |
| 3 | D6132 | 2 |
| 4 | D6172 | 4 |
| 5 | D6957 | 1 |
| 6 | D6961 | 1 |
| 7 | D6988-16.5 | 1 |
| 8 | D6988-30 | 1 |
| 9 | D6988-40 | 1 |

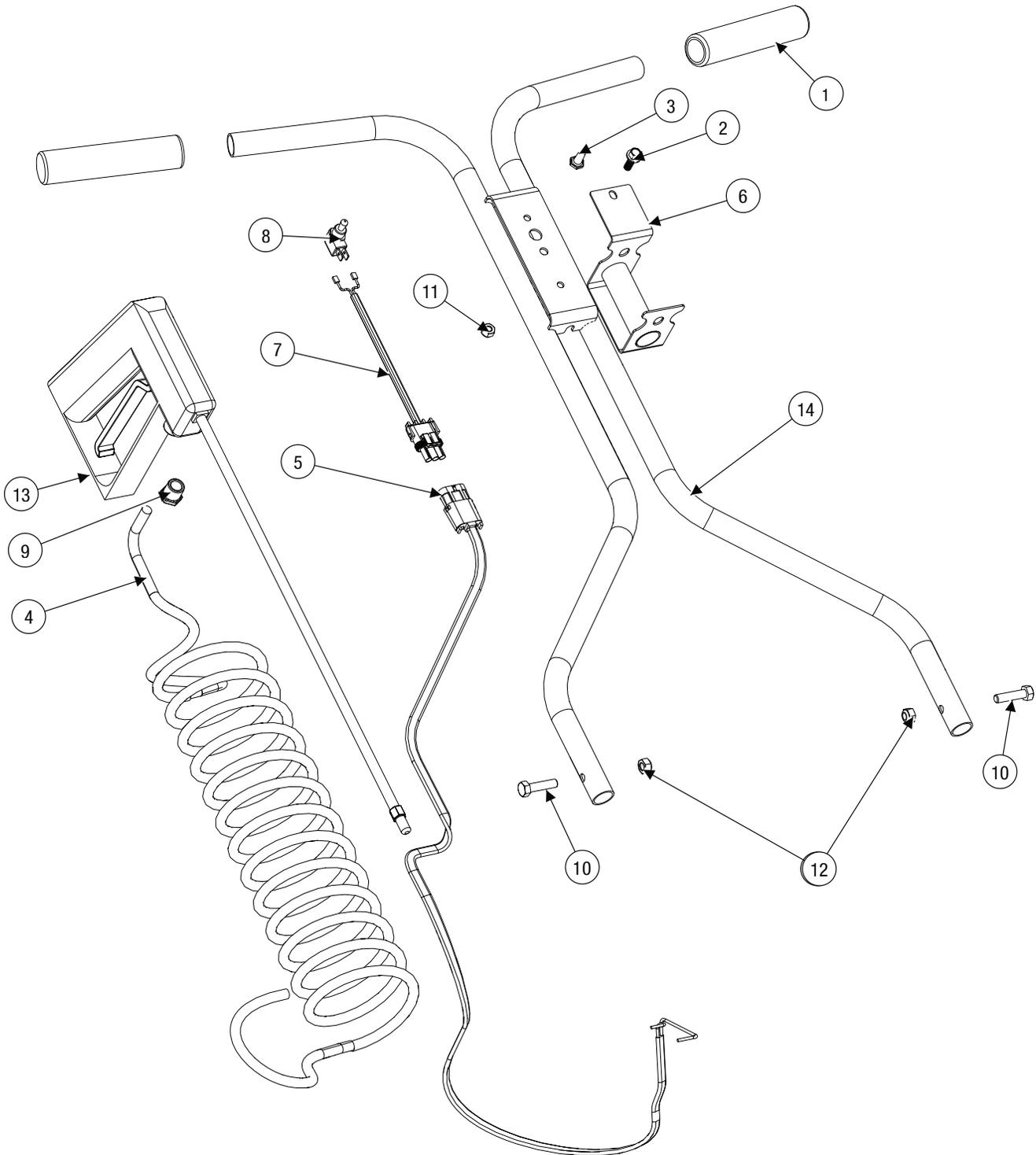
| BOM ID | Description | Qty |
|--------|-------------|-----|
| 10 | F50000 | 1 |
| 11 | F50002 | 1 |
| 12 | F50003 | 1 |
| 13 | F50004 | 1 |
| 14 | F50005 | 1 |
| 15 | F50006 | 1 |
| 16 | F50007 | 1 |
| 17 | F50012 | 1 |
| 18 | F50015 | 1 |

| BOM ID | Description | Qty |
|--------|-------------|-----|
| 19 | F50109 | 3 |
| 20 | F50145 | 6 |
| 21 | F50461 | 1 |
| 22 | F50136 | 1 |
| 23 | F50651 | 1 |
| 24 | T15016 | 2 |

Handle Assembly Parts Breakdown



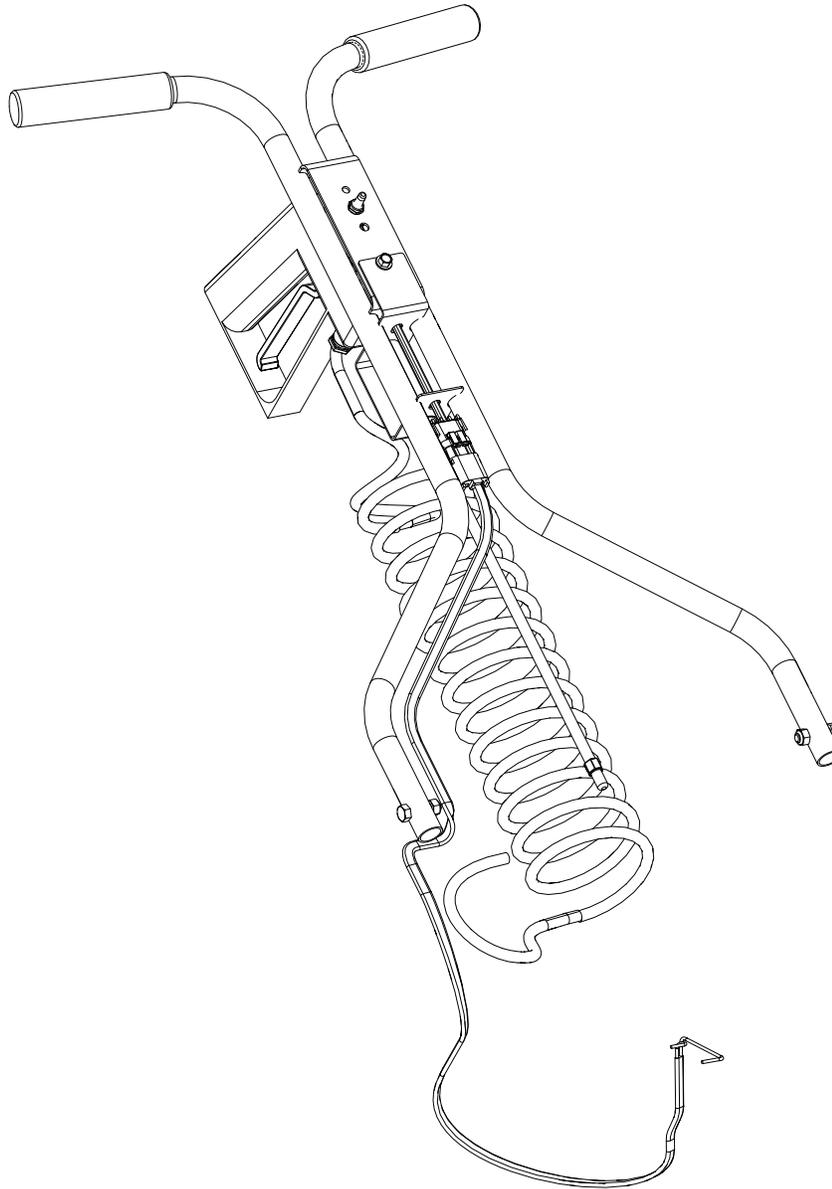
Model # TL80SS



Handle Assembly Parts Breakdown



Model # TL80SS



| BOM ID | Description | Qty |
|--------|-------------|-----|
| 1 | D5917 | 2 |
| 2 | D6132 | 1 |
| 3 | D6406 | 1 |
| 4 | F50008 | 1 |
| 5 | F50016 | 1 |

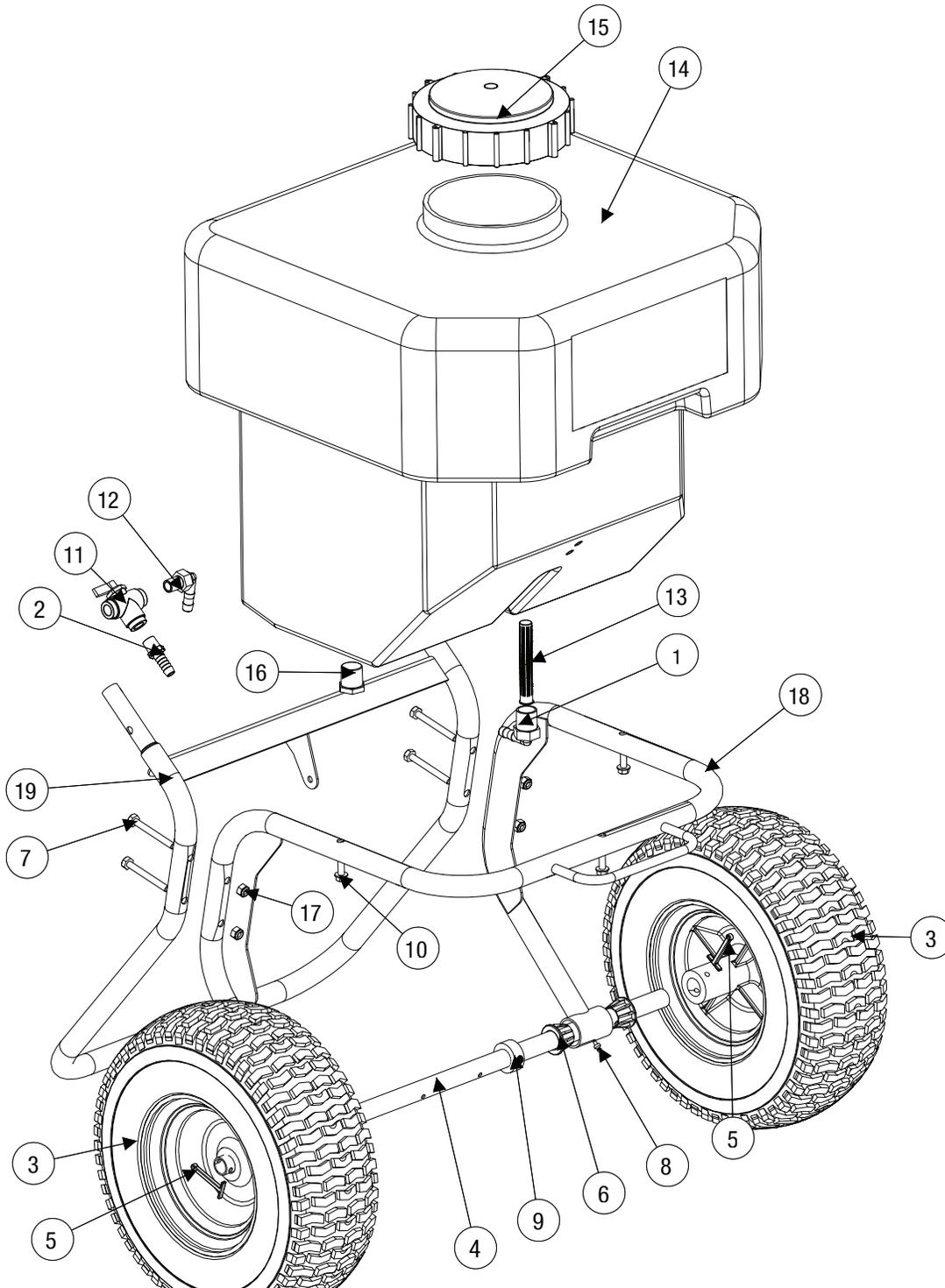
| BOM ID | Description | Qty |
|--------|-------------|-----|
| 6 | F50020 | 1 |
| 7 | F50106 | 1 |
| 8 | F50107 | 1 |
| 9 | F50111 | 1 |
| 10 | F50112 | 2 |

| BOM ID | Description | Qty |
|--------|-------------|-----|
| 11 | T15016 | 1 |
| 12 | T15018 | 2 |
| 13 | T20307 | 1 |
| 14 | T30153 | 1 |

Tank Assembly Parts Breakdown



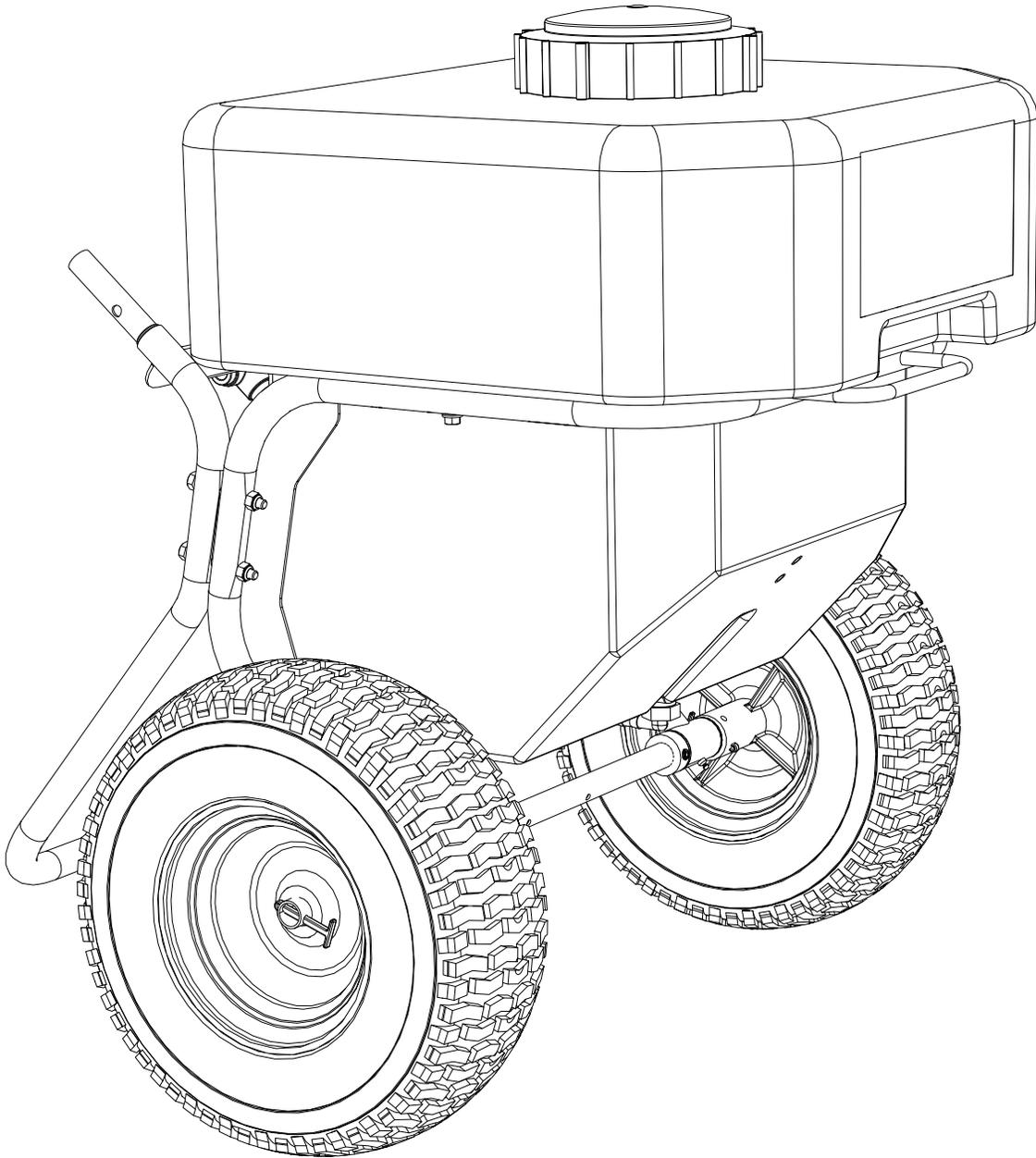
Model # TL80SS



Tank Assembly Parts Breakdown



Model # TL80SS



| ID # | Part # | Qty |
|------|--------|-----|
| 1 | D5377 | 1 |
| 2 | D5381 | 1 |
| 3 | D5904 | 2 |
| 4 | D5915 | 1 |
| 5 | D5919 | 2 |

| ID # | Part # | Qty |
|------|--------|-----|
| 6 | D5923 | 4 |
| 7 | D5943 | 4 |
| 8 | D5994 | 2 |
| 9 | D6024 | 2 |
| 10 | D6854 | 3 |

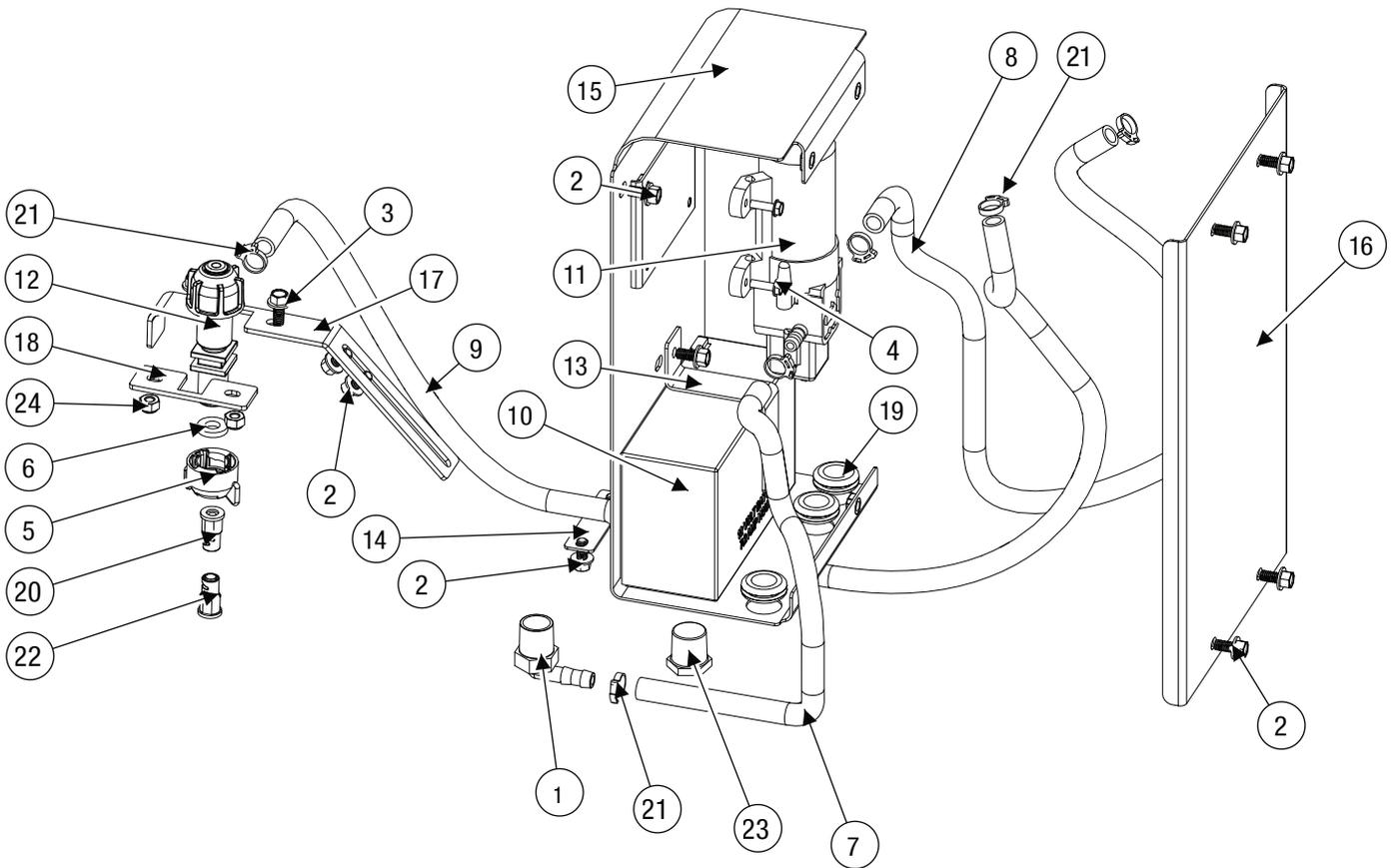
| ID # | Part # | Qty |
|------|--------|-----|
| 11 | F50011 | 1 |
| 12 | F50013 | 1 |
| 13 | F50108 | 1 |
| 14 | F50288 | 1 |
| 15 | F50487 | 1 |

| ID # | Part # | Qty |
|------|--------|-----|
| 16 | F50651 | 1 |
| 17 | T15016 | 4 |
| 18 | T30151 | 1 |
| 19 | T30152 | 1 |

Pump Assembly Parts Breakdown



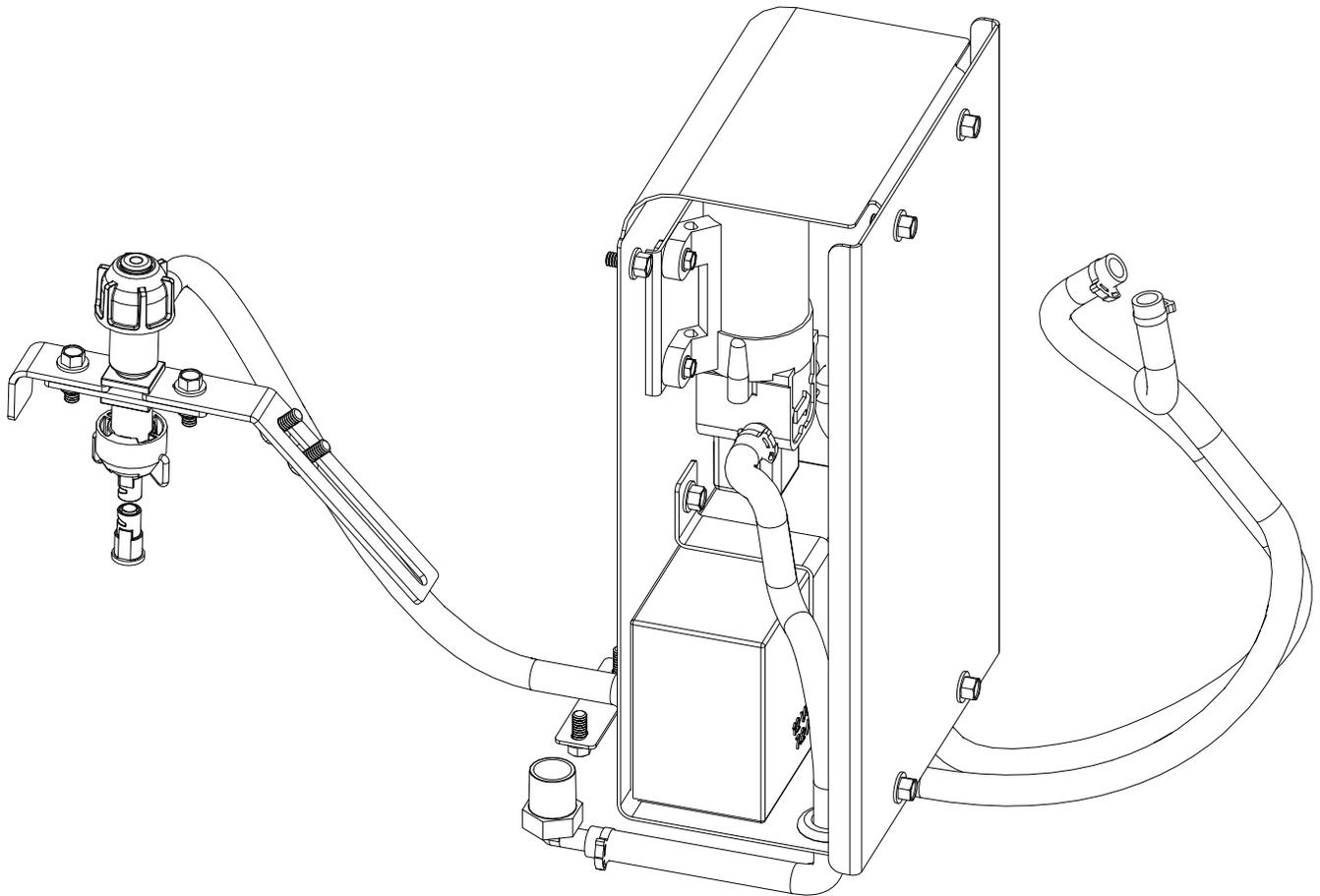
Model # TL80SS



Pump Assembly Parts Breakdown



Model # TL80SS



| BOM ID | Description | Qty |
|--------|-------------|-----|
| 1 | D5377 | 1 |
| 2 | D6131 | 11 |
| 3 | D6132 | 2 |
| 4 | D6172 | 4 |
| 5 | D6957 | 1 |
| 6 | D6961 | 1 |
| 7 | D6988-16.5 | 1 |
| 8 | D6988-30 | 1 |
| 9 | D6988-40 | 1 |

| BOM ID | Description | Qty |
|--------|-------------|-----|
| 10 | F50002 | 1 |
| 11 | F50005 | 1 |
| 12 | F50015 | 1 |
| 13 | F50019 | 1 |
| 14 | F50021 | 1 |
| 15 | F50022 | 1 |
| 16 | F50023 | 1 |
| 17 | F50024 | 1 |
| 18 | F50025 | 1 |

| BOM ID | Description | Qty |
|--------|-------------|-----|
| 19 | F50109 | 3 |
| 20 | F50461 | 1 |
| 21 | F50145 | 6 |
| 22 | F50136 | 1 |
| 23 | F50651 | 1 |
| 24 | T15016 | 2 |

