

*T3200 Applicator*



**OPERATOR'S MANUAL  
MAINTENANCE MANUAL  
PARTS LIST**

**TURFCO®  
T3200  
Applicator  
Spreader Sprayer**

**Product Numbers:  
85878 (with T-FLEX15 Tank Installed)  
85879 (Applicator Only)  
Starting Serial Number 420001**

**BATTERY NOT INCLUDED**  
Use Lawn and Garden  
Group U1 Battery

**US Patents 8,056,828 - 8,632,018 - 9,321,075 - 10,194,582**

**Manual Number 673182 Rev A**

**DANGER - IF INCORRECTLY USED THIS MACHINE CAN CAUSE SEVERE INJURY. THOSE WHO USE AND MAINTAIN THIS MACHINE SHOULD BE TRAINED IN ITS PROPER USE, WARNED OF ITS DANGERS, AND SHOULD READ THE ENTIRE MANUAL BEFORE ATTEMPTING TO SET-UP, OPERATE OR SERVICE THE MACHINE.**



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2024 Turfco Mfg., Inc.

*All specifications, information, illustrations or photos in this manual are based on the latest information at the time of printing. The right is reserved to make changes without notice.*

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**Product Records**

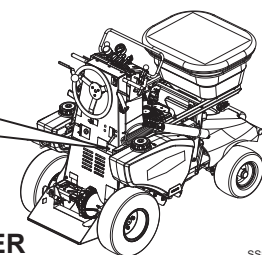
**IMPORTANT:** Record the information from the serial number plate of your Turfco 3200 Applicator. It will be necessary to furnish your Product Number and Serial Number when ordering parts.

Model Designation **T3200 Applicator**      Product Number \_\_\_\_\_

Serial Number \_\_\_\_\_      Engine Serial Number \_\_\_\_\_

Purchased From \_\_\_\_\_      Date Purchased \_\_\_\_\_

**85878 - T3200 Applicator  
With Factory Installed  
T-FLEX15 Tank  
85879 - T3200 Applicator**



**PRODUCT NUMBER      SERIAL NUMBER**

SS85878-01RevA

**Specifications**

**Dimensions:**

Width ..... 35.5" Inches (0.90 Meter)  
 Height ..... 50" Inches (1.27 Meter)  
 Length ..... 65" Inches (1.65 Meter)

**Weight Empty** ..... 87878- 523 lbs (237 Kg)  
 87879- 510 lbs (231 Kg)

**Weight Loaded**

Spreader Full, Sprayer Tanks Empty..... 87878- 698 lbs (317 Kg), 87879- 685 lbs (311 Kg)  
 Spreader Empty, Sprayer Tanks Full..... 87878- 814 lbs (369 Kg), 87879- 676 lbs (307 Kg)  
 Spreader Full, Sprayer Tanks Full ..... 87878- 989 lbs (449 Kg), 87879- 851 lbs (386 Kg)

**Operator Controls**

Steering and Drive.....Forward/Reverse Speed Control, Engine Throttle, Forward Speed Control Pedal, Parking Brake and Freewheel Lever  
 Spreader.....Spreader Gate Open/Close, Vari-Rate Adjuster, Spinner Speed Wide/Narrow, Trim Spread Border Control, Accuway Spread Pattern Adjuster, and Gate Calibration Dial.  
 Sprayer.....Full Width On/Off, Trim Width On/Off, Spray Gun On/Off, Spray Gun Flow Control, Spray Pump On/Off, and Spray Pressure Adjustment.

**Production Rates**

Spreading and/or Spraying.....4,000 Sq. Ft./Minute - 240,000 Sq. Ft./Hour  
 (371.6 Sq. Meters/Minute - 22,296 Sq. Meters/Hour)

**Spreader Hopper Capacity** .....Approximately 2.9 Cubic Feet - 175 lbs  
 (0.08 Cubic Meter - 79.4 Kg.)

**Minimum/Maximum Spread Width**

Full Spread ..... 16' to 22' Feet (5.49 to 6.7 Meter)  
 Trim Spread..... 12' to 14' Feet (3.66 to 4.27 Meter)

**Sprayer Tank Capacity** ..... 87878 10 Gallon Side Tanks, 20 Gallons Total (75.7 Liters)  
 T-FLEX15 Tank - 15 Gallons (56.8 Liters)  
 87879 10 Gallon Side Tanks, 20 Gallons Total (75.7 Liters)

**Minimum/Maximum Spray Width**

Full Spray .....9' to 11' Feet (2.74 to 3.35 Meter) 9' Effective  
 Trim Spray .....3' to 4' Feet (0.91 to 1.22 Meter)

**Engine**.....Briggs and Stratton EX1050 10.5 HP (7.8 kW), with 16 amp Electric Voltage Regulator.

**Fuel Tank Capacity** ..... 2 Gallons (7.57 liters)

**Transaxle** ..... Variable Speed with Brake and Freewheel Control

**Tires** ..... Front - 13 x 6.50-6 Rear - 18 x 6.50-8

**Maximum Transport or Operating Ground Speed** ..... 5 MPH (8.04 Km/h)

**Turning (Steering)**..... 9 Foot Circle (4.5 ft radius)

**Maximum Slope Angle of Operation** ..... 15° Degrees

**Registered Trademark and Patents**

US Patents 8,056,828 - 8,632,018 - 9,321,075 - 10,194,582  
 TURFCO® is a registered trademark of Turfco Manufacturing, Inc.  
 T3200™ and VARI-RATE™ are trademarks of Turfco Manufacturing, Inc.  
 SPYKER, ACCUWAY, and BORDER PATROL are trademarks of Spyker Spreaders, Brinly-Hardy, Inc.  
 REMCO® is a registered trademark of Remco Industries.  
 BRIGGS AND STRATTON® is a registered trademark of Briggs and Stratton Corporation. Inc.



**THE ENGINE EXHAUST FROM THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.**

**OPERATE ONLY IN AREAS WITH ADEQUATE VENTILATION. DO NOT OPERATE ENGINE IN ENCLOSED AREAS.**

## General Safety Practices

*Safety on the job should always be a top priority. Training and experience are important factors in the safe operation of equipment. Please consider the following information and realize that safe operation is a matter of using common sense as it relates to the machine, its maintenance, the operator, the training, and the operating conditions. These are general safety instructions that apply to most turf maintenance equipment.*

**This list includes many, but not all, general safety instructions as they relate to turf equipment. Common sense must always be used to determine the safest way to operate a machine under specific conditions.**

### TRAINING:

- Always read the manual and view the training video before operating a machine for the first time.
- Always read the warning decals before operating a machine for the first time.
- Always check the location and use of each control before operating a machine for the first time.
- Practice operating the machine in a safe area with no obstructions until becoming familiar with the controls. If you have questions, ask your supervisor or call the factory.



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### CLOTHING:

- Clothes should be snug fit. Loose fitting clothing is hazardous because it may get caught in the mechanism during service or operation.
- Remove jewelry before operation. Again, jewelry may get caught in the mechanism.
- Wear shoes that will protect your feet. Steel toed safety shoes should be considered for many situations.
- Hard Hat: The use of a hard hat should be considered when using equipment on a golf course. The danger of being hit by a golf ball should be a major concern as well as protection while operating under trees.
- Respirators: When operating in dusty, windy conditions, wear a respirator. This is also an important consideration if operating equipment while spreading or



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spraying chemicals and fertilizers.

- Eye Protection: Safety glasses and/or face shields should be considered when operating, as well as working in close proximity to high speed rotary equipment. Watch for rotary mowers, edgers, brush and string trimmers. Rotary mowers can throw debris at speed up to 200 MPH.
- Hearing: If the noise level of the equipment is too loud, consider the use of ear protection. Do not use stereo headsets during operation. This is a distraction that may lead to an accident. Headsets also make it difficult to hear other people and equipment while operating in the work area.
- Gloves: Use gloves when handling sharp or hazardous objects, chemicals and fertilizers.

### THE OPERATOR:

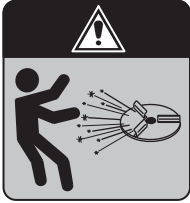
- The operator should never use a machine while under the influence of alcohol or drugs. The operator should be aware of the hazards of working in the sun and should take proper precautions to avoid heat stress and dehydration. Use sun screen products when necessary.
- The operator should never attempt to ride a machine that is not designed for that purpose. Do not allow others to ride a machine that is not designed for passengers.
- Care should always be taken when mounting and dismounting a riding machine. Prevent injuries and falls by making sure the operator does not slip. Unless it is an emergency, do not jump off a machine. Injury may result when an operator's foot slips trying to jump from a machine.
- Keep hands and feet away from the spinner wheel, hopper mixing devices and drive components. Shut off the engine and remove ignition wire when servicing the spinner wheel, hopper mixing devices and drive components.
- Do not operate any equipment at unsafe speeds. Speeds should be reduced when turning or operating on slopes. The operator must use common sense to determine a safe speed based on the equipment, the load, the slope, the surface, and other conditions that may affect safe operation.
- The operator must be aware of the conditions around the area. Be careful to observe other people and machines.



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- Beware of slippery conditions. Wet turf can be encountered on slopes, when turning or stopping, or at higher speeds.
- If required to lift, an operator should ask for help if the object is too heavy. The operator should lift with his or her legs instead of the back. Care should be taken to avoid twisting the back while lifting a heavy load.
- Never allow children to operate the machine.

**THE MACHINE:**

- Do not modify the machine in any manner. Always check the machine to make sure it is in good working order.
  - Do not place hands or feet near moving or rotating parts. Inspect to insure that all guards are in place. Do not operate a machine without all guards in place. Be aware of thrown objects from the spinner wheel.
- 
- Check to assure that all controls are in good operating condition. Make sure the brakes are operating properly.
  - Do not overload machinery. The components are designed for certain weights and capacities. Overloading machine will cause unsafe conditions.
  - Shut off the engine before servicing the machine. Check machines on a level area. Machines on a slope may roll when the engine is off.
  - Refer unfamiliar repairs and adjustments to mechanics that have been trained to do them properly.
  - Replace decals that have become damaged or illegible.

**ENGINES:**

- Prevent accidental starting by removing the spark plug wire when servicing the engine or the equipment.
- Do not strike the flywheel with a hammer or any hard object. This may cause the flywheel to shatter in operation. Use the correct tools to service the machine.
- Pull the starter cord slowly until resistance is felt. Then pull the cord rapidly to avoid kickback and to prevent hand or arm injury.
- Do not run the engine in an enclosed area. The exhaust gases contain carbon monoxide, an odorless and deadly poison.



**Engine Exhaust Contains Chemicals Known to the State of California to Cause Cancer, Birth Defects or Other Reproductive Harm.**

- Do not store, spill, or use gasoline near an open flame, nor near an appliance like a stove, furnace, or water heater that uses a pilot light or can create a spark.
- Do not refuel indoors or in an unventilated area. Check the fuel level. Do not over fill. Do not add fuel while the machine is hot because spilled fuel may cause a fire. Use fresh gasoline. Stale fuel can gum the carburetor and can cause leakage. Check the fuel lines and fittings frequently for cracks and leaks. Replace if necessary.
- Do not remove the fuel tank cap or fill fuel tank while the engine is hot or running. Allow the engine to cool before refueling.
- Do not operate the engine if gasoline is spilled or when the smell of gasoline is present or other explosive conditions exist. Move the equipment away from the spill and avoid any ignition until the gasoline has evaporated.
- Do not start the engine with the air cleaner and/or the air cleaner cover removed.
- Do not choke the carburetor to stop the engine. Whenever possible, gradually reduce the engine speed before stopping.
- Do not tamper with the governor springs, links or other parts to increase the engine speed. Run the engine at the speed set by the equipment manufacture.
- Do not check for a spark with the spark plug removed. Use an approved tester. Do not crank the engine with the spark plug removed. If the engine is flooded, place the throttle in fast and crank until the engine starts.
- Keep the cylinder fins and the governor parts free of dirt, grass, and other debris which can affect engine speed.
- Do not operate the machine without a muffler. Inspect the muffler periodically and replace it if it is leaking or worn. If necessary, replace it with correct muffler. Do not touch a hot muffler, cylinder, or fin. It may cause burns.
- Do not operate the engine with an accumulation of grass, leaves, or other combustible material in the muffler area.
- Do not use the engine on any forest covered, brush covered, or grass covered unimproved land unless a spark arrester is installed in the muffler. The spark arrester must be maintained in working order by the operator. In the State of California, the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.



## Safety

### Recognizing Safety Warnings Used In Manual LOOK FOR THE SAFETY HAZARD WARNING SYMBOLS



The symbol is used to alert the operator of safety hazards.  
It is used in conjunction with the words DANGER, WARNING, and CAUTION.



“DANGER” identifies immediate hazards which will result in serious injury or death.

“WARNING” identifies potential hazards which could result in serious injury or death.

“CAUTION” identifies hazardous situations which may result in minor injury and/or could result in damage or destruction of equipment.



#### PROTECT YOURSELF!

Read, Understand and Follow the Chemical Manufacturers Warning Labels and Instructions.

Read and Follow the Material Safety Data Sheet (MSDS) For All Chemicals Being Used.  
Wear the Appropriate Personal Protective Equipment (PPE) To Protect Yourself In Accordance With the MSDS Sheet and the Chemical Manufacturers Labels, Handling Instructions and Application Instructions.

**READ ALL CHEMICAL WARNING LABELS.**



**WEAR APPROPRIATE  
PROTECTIVE EQUIPMENT (PPE)**

BE AWARE OF THE HAZARDS OF THE CHEMICALS THAT ARE BEING USED AND APPLIED.  
ALWAYS WEAR PERSONAL SAFETY EQUIPMENT TO PROTECT FROM ALL HAZARDS.  
REFER TO THE CHEMICAL MANUFACTURERS SAFETY WARNINGS FOR THE PRODUCT BEING APPLIED, MIXED, TRANSPORTED, OR STORED.  
CHEMICALS CAN BE POISONOUS, CAUSE BURNS, CAUSE SERIOUS ILLNESS OR DEATH.  
PROTECT YOURSELF FROM CONTACT, INHALATION, EXPOSURE AND/OR OVEREXPOSURE  
READ THE LABELS FROM THE PRODUCT.



THE TURFCO T3200 **DOES NOT PROTECT** THE OPERATOR OR BYSTANDERS FROM THE HAZARDS OF EXPOSURE OR OVEREXPOSURE TO CHEMICALS.

THE TURFCO T3200 **DOES NOT PROTECT** THE OPERATOR OR BYSTANDERS FROM THE HAZARDS OF CHEMICALS BEING USED DURING APPLICATION OR AFTER APPLICATION.

THE TURFCO T3200 **DOES NOT PROTECT** THE OPERATOR OR BYSTANDERS FROM THE HAZARDS OF CHEMICALS DURING MIXING, DURING STORAGE, OPERATION, OR DURING TRANSPORTATION OF THE MACHINE.

### Welcome

Welcome to the Turfco T3200 Series Applicator. This manual will describe the machine, give correct operating procedures, and help you learn and understand correct operation. Operation of this machine without training can result in injury to the operator or damage to the machine.

### Intended Use

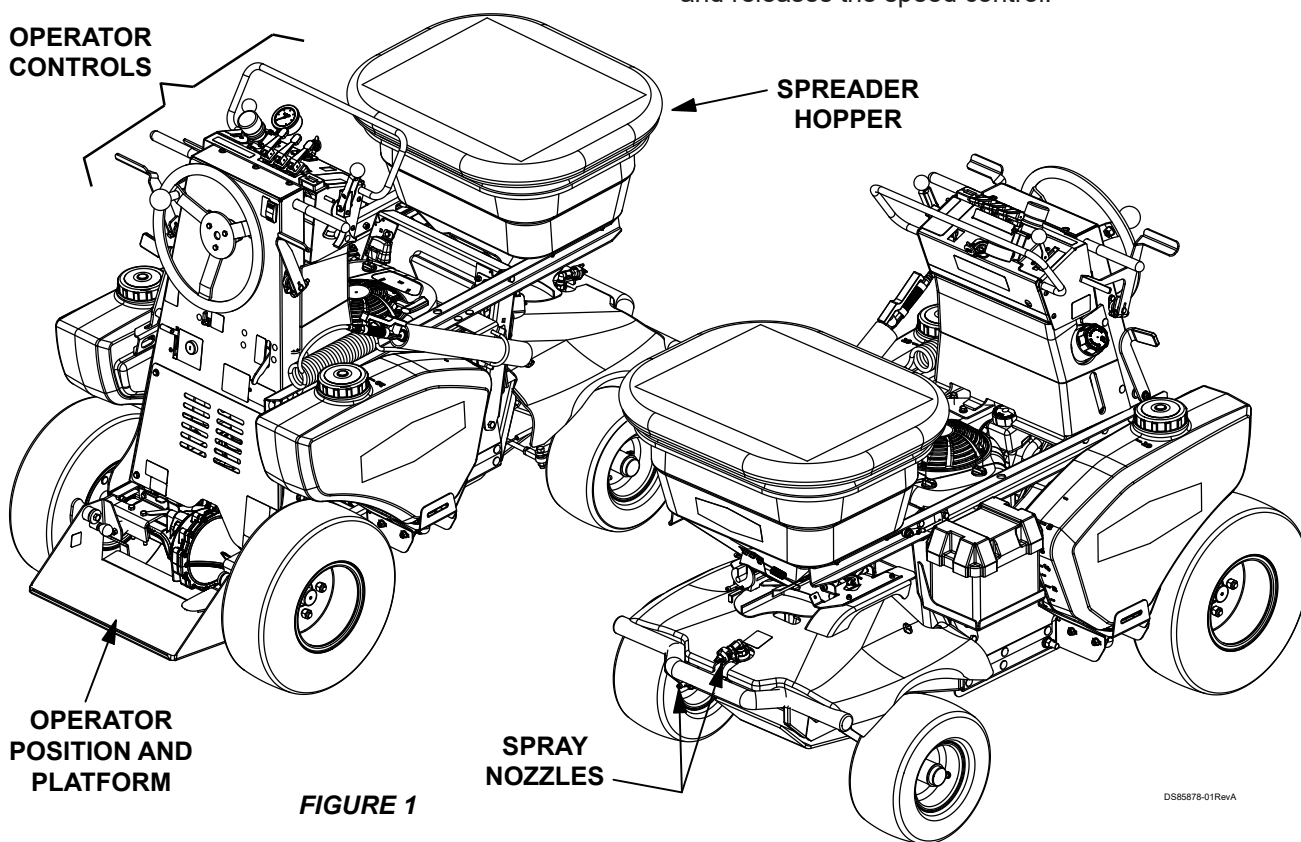
The Turfco T3200™ Applicator is a self-powered ride-on spreader/sprayer. The T3200 is intended to be used for the application of properly prepared turf care liquid spray products and turf care granular products. The T3200 is NOT intended to be used for any purpose other than the application of properly prepared turf care products to the turf. Operation is intended to be at properly prepared worksites only.

### Description

**Product Number 85878 - T3200 Applicator With T-FLEX15 Tank Installed**  
**Product Number 85879 - T3200 Applicator**

The Turfco T3200 Applicator is an easy to operate, comfortable, high production lawn applicator for dry and spray products. The lawn applicator is capable of spreading fertilizer or spraying at the rate of 4000 square feet per minute (371 square meters per minute). The T3200 Applicator is a 4 wheel machine using standard automotive style steering for directional control and operator comfort. The front wheels are the steering wheels and the rear wheels are the drive wheels.

The operators position is standing on a vibration isolated platform on the rear of the machine. The forward and reverse speeds are controlled by using a simple directional hand control allowing the operator total control of the speeds from 0 to 5 MPH (0 to 8.04 Km/h). Braking is provided by a dynamic braking system within the hydrostatic transmission and a hand operated parking brake. Releasing the speed control (and the foot operated forward speed control pedal) will stop the machine. The machine is designed so that it will stop movement if the operator dismounts and releases the speed control.



**OPERATION**

Before operating the T3200 Series Applicator and before starting the engine:



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1. Read the Operators Manual.
2. Install battery (lift up LH side of T-FLEX15 tank if installed).
3. Check the oil in the engine.
4. Check air pressure in the front and rear tires. Inflate to PSI shown on tire.
5. Fill the machine with fresh approved gasoline.
6. Inspect the machine for any loose nuts, bolts or hardware or anything that does not look normal.
7. Check all guards and covers to make sure they are secure.
8. Become familiar with the controls. Stand on the operators platform and test operate all the driving controls. Check that the platform locking knob is in place (locked).
9. Do not start the engine - you are not ready yet.

**TurfcO T3200 Applicator Operator Driving Controls (See Figure 2)**

Before driving the applicator become familiar with the operator controls.

- A. PARKING BRAKE LEVER
- B. FREEWHEEL LEVER
- C. ENGINE THROTTLE CONTROL
- D. FORWARD/REVERSE SPEED CONTROL
- E. FORWARD SPEED CONTROL PEDAL
- F. STEERING WHEEL
- G. ELECTRIC START

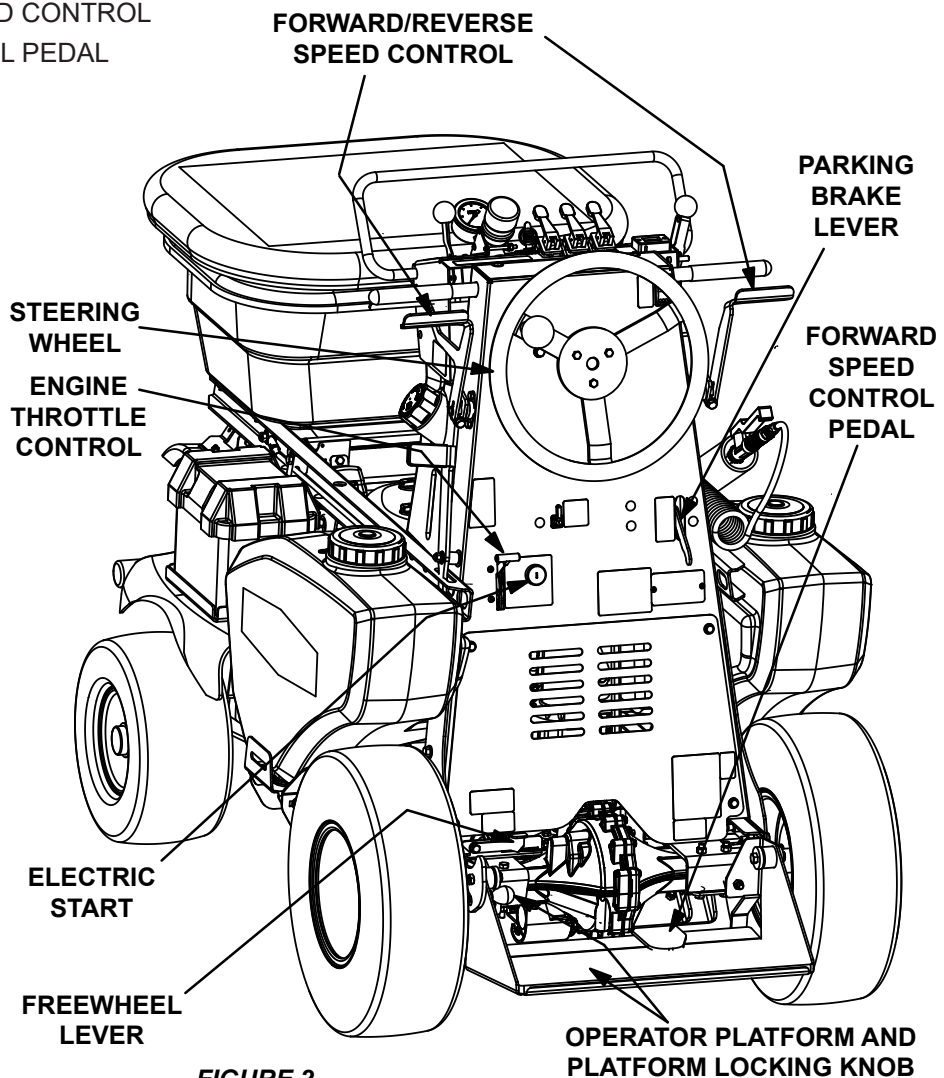


**Warning: Driving the T3200 Applicator without training and practice can cause damage to the machine and injure the operator.**

Take time to become familiar with all the controls before you attempt to drive this machine.

Become comfortable with the reach and movement of the Speed controls, the Steering Wheel and the locations of the Engine Throttle, Freewheel Lever, and Parking Brake.

It may take several hours of practice before one has the skill level required to properly apply a lawn. Operation of the T3200 Applicator before one has developed the proper skill level can cause damage to the machine, operator or the lawn.








**FIGURE 2**

OP85878-02RevA



## DRIVING CONTROLS

1.  Locate the Parking Brake. Test the movement of the lever to the ON and OFF positions. The brake should always be set in the ON position when the operator is **not present** on the machine.
2.  Locate the Freewheel Lever. This lever puts the transaxle in a “neutral” state allowing the machine to be pushed by hand when the engine is not running. The lever must be in normal position (to the left) during operation.
3.  Locate the Engine Throttle Control. Test the movement of the lever. Note the range of movement - from Slow, Fast and Choke. The throttle should be set at “Fast” during operation to maintain a constant and even ground speed.
4.  Locate and test the movement of the Forward/Reverse Speed Control. Make sure your hands can reach as needed for full movement of the control (either right or left hand control). The control operates by **Slowly** squeezing the control forward for forward movement, pull back for reverse movement, or releasing to stop movement.
5.  Locate and test the Forward Speed Control Pedal. This is the pedal by your right foot. By **Slowly** pressing the pedal with your foot, you can move the Forward/Reverse Speed Control handle forward without using your hands. As long as you have the pedal depressed with your foot the speed lever control will remain in a forward position. Remove your foot from the Forward Speed Control Pedal and the speed control will return to the neutral position. Operation is for forward movement only, the pedal is not used for reverse movement.
6. Test the full movement of the Steering Wheel. The steering uses standard automotive style of steering the front wheels.

*After you are totally comfortable with the location and movement of the operator controls, you are now ready to start the engine.*

## STARTING THE ENGINE

Before starting the engine, check that the fuel tank shut-off valve (located on fuel line before filter) is open.

1. Set the parking brake before starting the engine. Check the Freewheel lever.
2. Make sure Forward/Reverse Speed Controls are in the neutral (not engaged) position. Make sure Forward Speed Control Pedal is not depressed.
3. Move the throttle control lever upward to the choke (start) position.
4. Operator must be off the machine before starting.
5. Start the engine by turning key to start position. If the electric start battery is dead, the engine can still be started with the rope (key must be in the ON position).



6. Allow engine to run on choke for a very short time and then move the throttle lever to slow run position. Allow to machine to run a few minutes to warm up.

**DRIVING THE MACHINE**

(See Figures 3, and 4)

To begin your driving lesson you will need a large smooth paved level area like a parking lot.

**Forward and Reverse Operation**

(See Figure 3)

1. Stand on the operators platform before touching anything. Do Not stand on the green Forward Speed Control pedal.
2. Place one hand on the support bar and grip the steering wheel with the other hand.
3. Release the Parking Brake.
4. Using the hand on the support bar, move the speed control lever **slowly** towards the support bar. The machine should move ahead slowly. Slowly moving the speed control bar closer to the support bar will increase the forward speed.
5. The machine has a braking system in the transmission that automatically stops the machine when the speed control is released. Let go of the speed control and it will go to neutral applying the brake. The machine will quickly come to a full stop in just a few feet of travel. Try this many times to get used to the braking action.
  - Go ahead slowly and release the speed control lever. The control will return to the neutral position and the machine will stop. **The machine will stop quickly.**
  - You may speed up a little as you become more accustomed to the start and stop characteristics of the machine. Continue this for several minutes gradually getting more speed and becoming used to the stopping motion.
  - Also try the same movement using the reverse lever on the left side.
6. The reverse speed control is under the left side support bar. Move the reverse speed control upward toward the support bar **slowly**. The machine will slowly start moving in reverse. Try this a few times to get used to the movement and control.

**Using Forward Speed Control Pedal (See Figure 4)**

The T3200 Applicator has a "Forward Speed Control Pedal". This pedal can be used to control forward speed, the same as the forward speed control handles. This allows the operator to use his hand to operate the other spreader and sprayer controls on the machine.

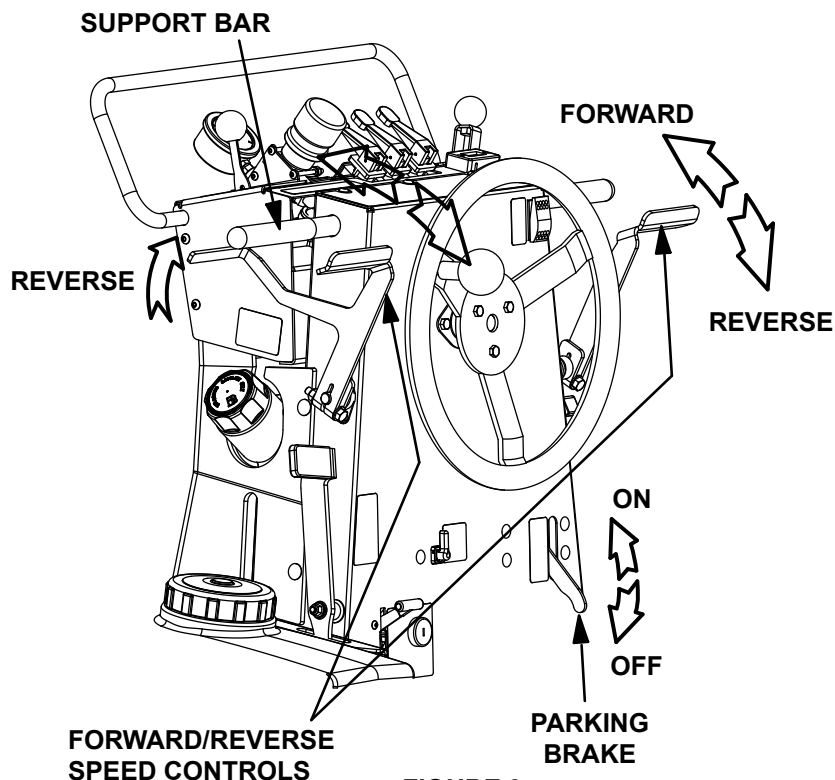


FIGURE 3

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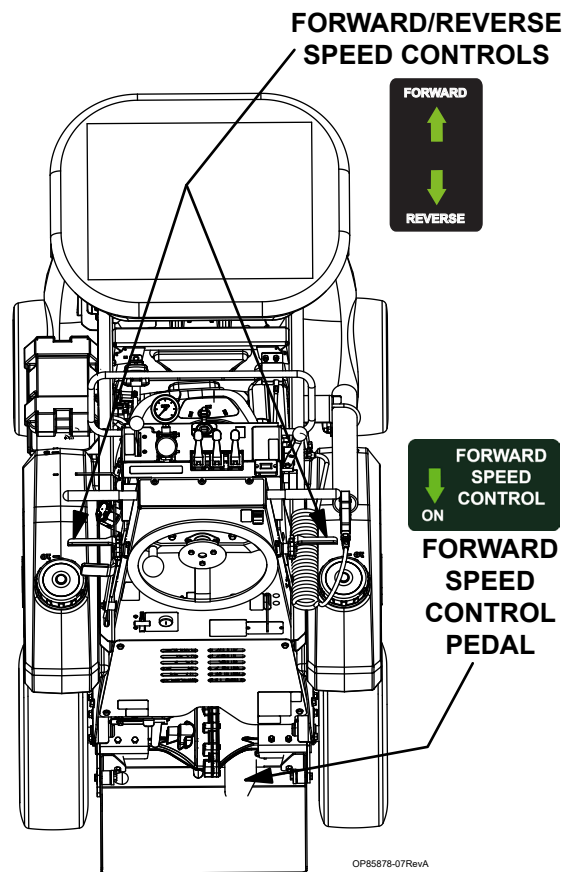


FIGURE 4

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To operate the Forward Speed Control Pedal, step on the green colored pedal (located on the operators platform) and **slowly** press down. Notice that as you press the pedal the forward speed control handles are moving forward. The further you press the pedal, the further the speed control handles move. As long as pressure is applied on the pedal, the speed control will remain in forward position.

- Try this operation a number of times so you become very familiar with the operation of the Forward Speed Control Pedal. You will need to know this for later operation of the machine.

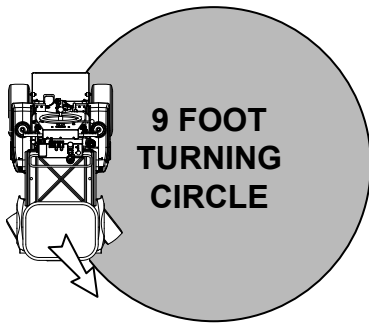
*Note: The pedal is for forward movement only, the pedal is not for reverse.*

### Steering the Machine

Now you are ready to try the steering and driving the machine on the parking lot. Like your car, the Turfco T3200 Applicator steers uses a steering wheel. A full spin to the right will give you a full right turn and a full spin to the left give you a full left turn. The steering wheel is equipped with a wheel spinner knob to make this easier.

Drive the machine in all modes; fast, slow, turns, figure 8's and reverse backing. One thing you must get accustomed to is steering and stopping of the machine. Do this for at least 10 minutes before we move on to the other controls.

- Drive the T3200 Applicator ahead slowly 10 feet and make a 180° degree turn using the steering wheel. Continue doing this several times gradually increasing the speed. Do not try to make a full 180° degree turn at full speed until you are well accustomed to the machine.

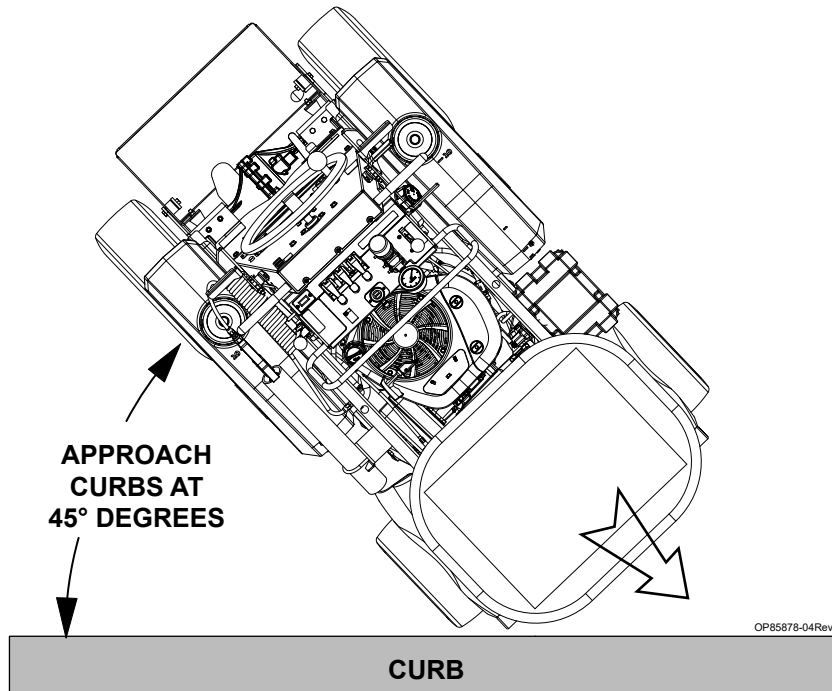


- Continue with other driving maneuvers such as figure "8's", circles, 90° degree turns and many 180° degree turns. The machine is designed to do a full 180° degree turn in 9 feet, to match the effective operation width of the spread and spray. Therefore the operator must practice this turn until they have it mastered.

### **Climbing Curbs (See Figure 5)**

Now that you are familiar with driving the T3200 Applicator, you are ready to try all the same turns and maneuvers you learned in the parking lot on the lawn. Now you are ready to move up into the lawn and practice turns, trimming, getting close around trees and obstacles.

You should always use curb cuts or driveways whenever possible. But, in the case they are not available you should know how to climb a curb with the machine. **You should always dismount when climbing curbs or other obstacles with the machine.** Hold the steering wheel firmly and advance the machine slowly until the entire machine is on the lawn. Stop and remount the machine.



**FIGURE 5**

1. Approach the curb at a 45° degree angle. Stop the machine a few inches from the curb.
2. Dismount the machine keeping your hands on the support bar and steering wheel
3. Hold the steering wheel firmly and ***slowly*** advance the speed of the machine.
4. The machine should slowly climb over the curb. The operator may remount as soon as the machine is on top of the curb.
5. The same technique is used for going down over a curb.



*The Turfco T3200 Applicator is not designed to be operated on any incline or slope exceeding 15° degrees. Operation on inclines of more than 15° degrees can result in injury and/or damage to the machine. Operation on inclines exceeding the 15° degree limit can cause spillage of materials.*

### Operation on Slopes, Inclines or Hills (See Figure 6)

For safety reasons, the best way to drive up or down a slope is at a 45° degree angle to the slope. This will keep you from being directly above or under the mass of the machine. This machine is only rated to go on slopes of 15° degrees or less. Slopes of more than 15° degrees could cause injury to the operator or damage to the machine. **Roll overs can occur**, using the machine to traverse along a slope of more than 15° degrees is not recommended. You should always use walking applicators on slopes more than 15° degrees.

- Do not turn the machine while on a slope or incline.
- If one must operate across a slope, angle the machine 45° degrees to the direction of the incline no matter if you are going up or down the slope.
- Do not operate the machine across the face of a slope or at 90° degree angles to the slope.



The Turfco T3200 Applicator is **not designed** to be operated on any incline or slope exceeding 15° degrees.

Operation on inclines of more than 15° degrees can result in injury and/or damage to the machine.

Operation on inclines exceeding the 15° degree limit can cause spillage of materials.

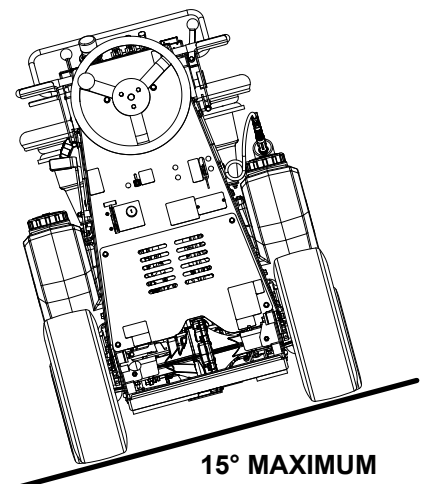
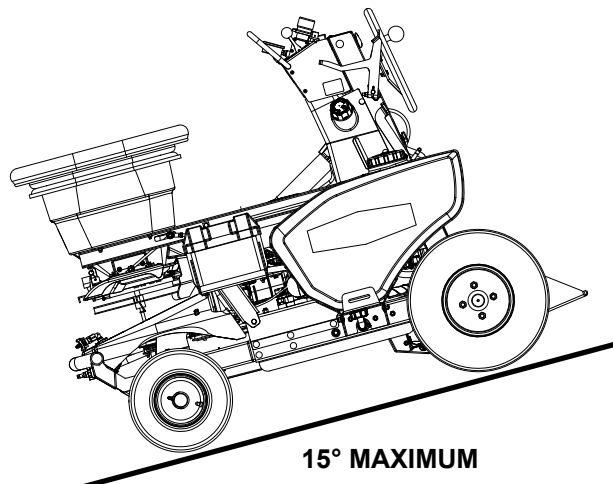
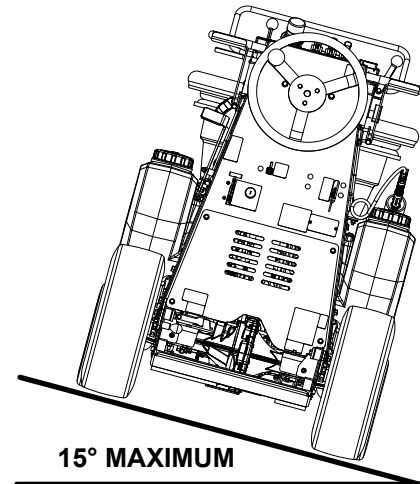
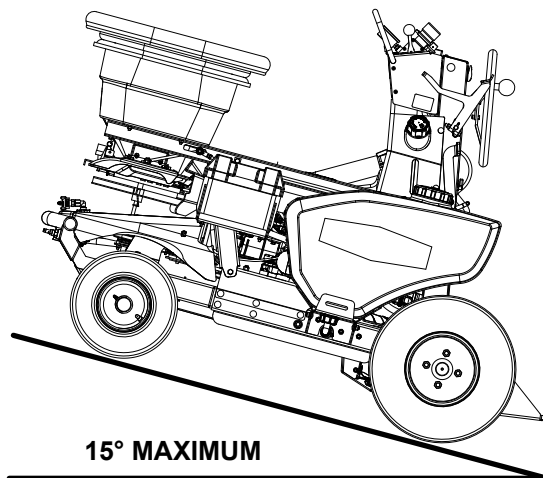


FIGURE 6

OP85878-05RevA

THE SPREADER

The spreader has several components and controls you should be familiar with before operating the machine.

1. **SPREADER HOPPER (See Figure 7)** - The spreader hopper size is 2.9 cubic feet and holds 175 pounds (0.08 Cubic Meter/ 79.4 Kg.) of material.

2. **SPREADER GATE (See Figure 8)** - The Spreader Gate opens allowing the material from the hopper to fall onto the spinner wheel for spreading. The gate is operated from Spreader Gate Open/Close Control lever on the right side of the operators control.

3. **SPREADER GATE RATE ADJUSTER DIAL (See Figure 8)** - The Spreader Gate Rate Adjuster Dial, is a round white plastic cam on the front of the spreader hopper. This cam sets the exact opening of the spreader gate. **The exact setting for the gate dial should only be set by licensed persons.**

4. **“ACCUWAY” SPREAD**

**PATTERN ADJUSTER (See Figure 8)** - The Spread Pattern Adjuster moves the position of a black plastic wedge that is under the hopper gate opening. When the gate is opened, the wedge controls where the material lands on the spinner wheel. This affects how fast the material exits the spinner wheel and changes the throw of the material. The wedge can be adjusted to throw more material to the right, more to the left, or an equal right to left pattern.

More detailed information about the adjuster can be found in the spreader calibration section of this manual.

The Accuway Spread Pattern Adjuster must be readjusted if the Spreader Gate Rate Adjuster Dial has been changed or when a different product is being used. **Consult the calibration section in this manual for proper adjustment.**

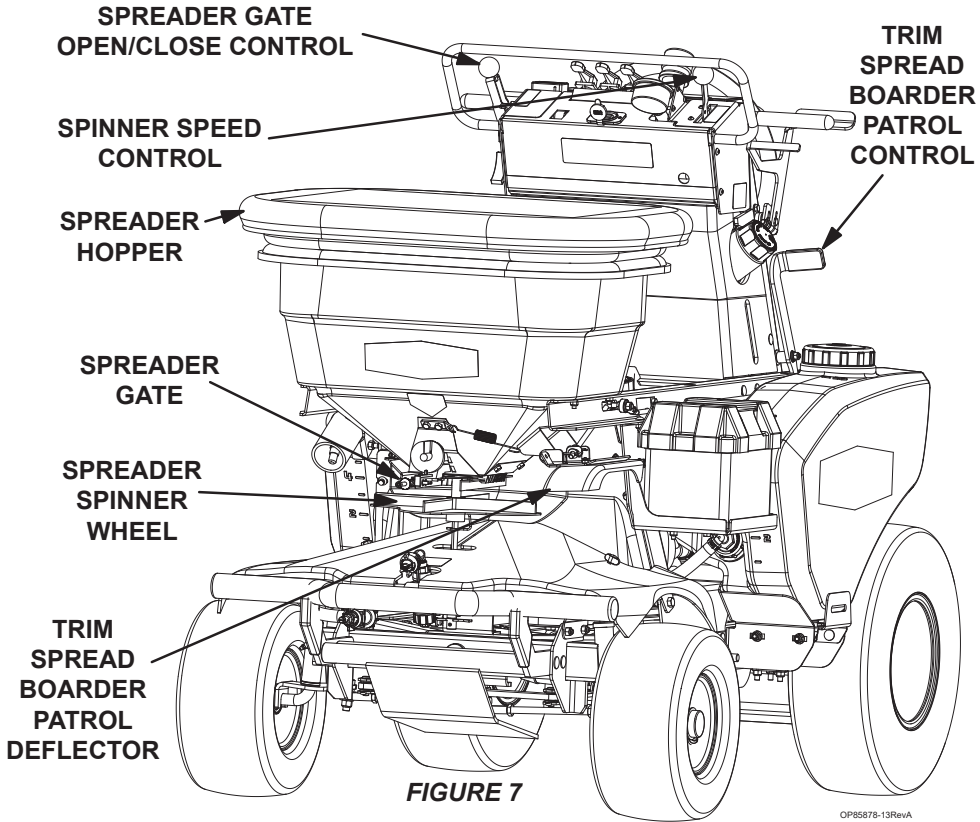


FIGURE 7

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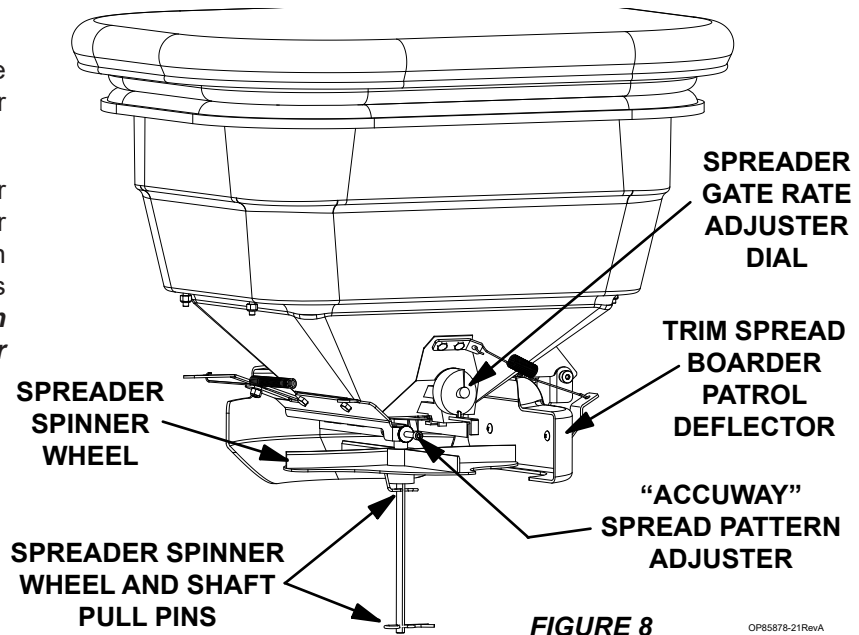


FIGURE 8

OP85878-21RevA

**5. SPINNER SPREADER WHEEL (See Figure 8 and 9)** - The Spinner Wheel broadcasts the material from the hopper. The speed of the spinner wheel is controlled by the Spinner Speed Control.

**6. SPINNER SPEED CONTROL (See Figure 7 and 9)** - The Spinner Speed Control lever allows the operator to speed up or slow down the spinner wheel to vary the spread pattern width. Push the Spinner Speed Control lever full ahead for full application width and pull back for the narrow or trim width. A slower spinner wheel speed results in a narrower spread width (about 7 foot wide) for use in narrow spots, trimming, and to avoid putting product where it is not wanted.

Note: The Spinner Speed Control lever should only be moved when the engine is running. No damage will occur if the lever is moved while the engine is not running, it is just better for the belts and pulley to be moving when activated.

**7. SPREADER GATE OPEN/CLOSE CONTROL (See Figure 9)** - The Spreader Gate Open/Close Control handle controls the opening of the spreader gate. Push forward to open the gate or pull back to close.

**8. VARI-RATE ADJUSTABLE GATE STOP (See Figure 9)** - Vari-Rate Adjustable Gate Stop is located next to the spreader gate handle. The stop will limit the movement of the spreader gate control handle. This causes the spreader gate to stop at a preset opening size that is less than 100% open (opening must be preset during calibration). To use the Vari-Rate stop, simply push the lever in as you open the gate. The lever will snap in to a more vertical position and stop at the gate stop. To bypass the stop, tip the control out as you move it forward to open the gate and the handle will miss the stop allowing the gate to fully open.

The Vari-Rate Adjustment Gate Stop should only be set by the person calibrating the spreader. This should never be done in the field and should be changed whenever the calibrated rate is changed. **The exact setting for the Vari-Rate should only be set by licensed persons.** Refer to Spreader Calibration Section in this Manual.

**9. SPREAD TRIM BORDER PATROL (See Figure 8 and 10)** - The Spread Trim Border Patrol deflector is on the left side of the hopper and is operated by a lever on the left side of the operators panel. The Border Patrol deflector is operated by pulling the lever back for trim (ON) and pushing forward (OFF) for full width application.

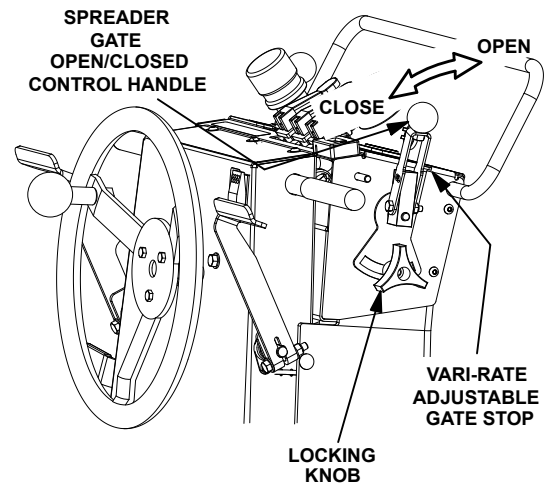
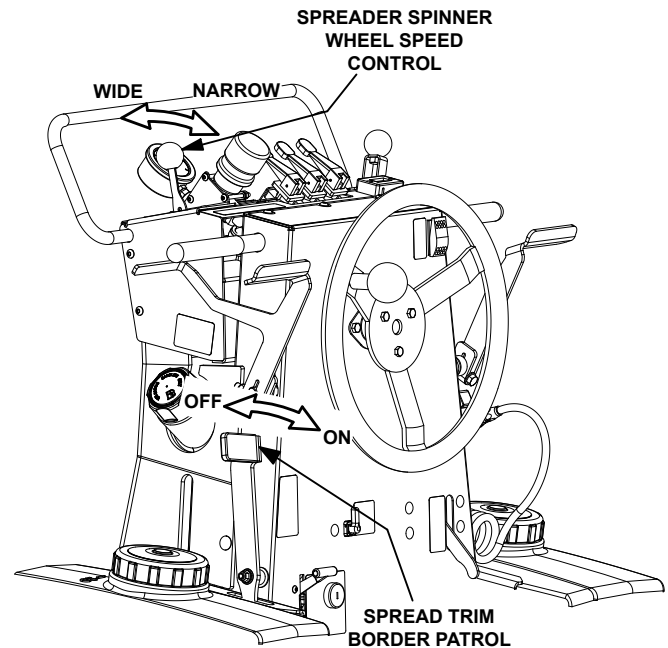


FIGURE 9

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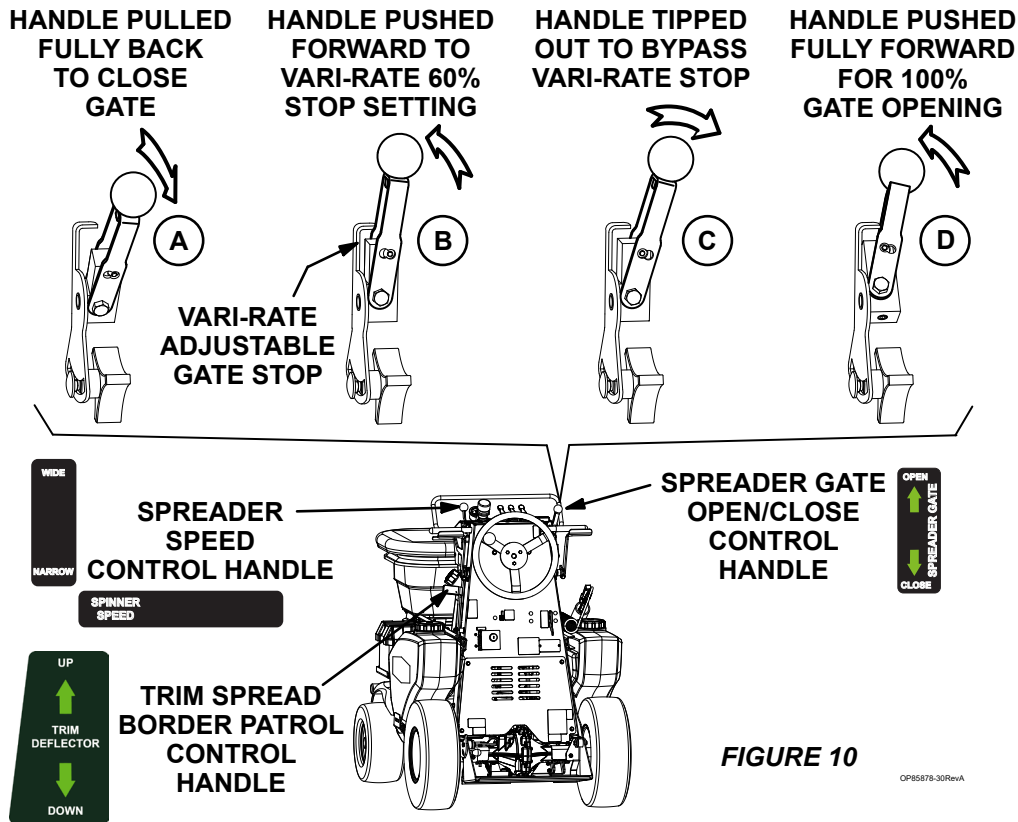


FIGURE 10

OP85878-30RevA

**OPERATION FOR TRIMMING**

To get clean trimming with little off target fertilizer on sidewalks and curbs use these tips.

- Pull the Trim Spread Handle back to lower the boarder patrol deflector (ON).
- Move the Spread Width to the Narrow position.
- Open the Gate Opening Handle to the left and forward against the Vari-Rate Stop.

Note: When trimming drive the unit with the left front tire approximately 6 inches away from the area you are trimming i.e. sidewalks, curbs, flower beds and etc. Prills coming off the front cover and left front tire will cover this area.

Also when you make your first full spread pass, make sure you are throwing fertilizer to the center of your trim tire tracks so you get 100% coverage.

**Trimming to Right with Full Width Spread**

When trimming to the right, you only need 60% of the full gate opening. Use all the Spreader controls together for a very accurate trim along a side walk and curb area.

1. Adjust the Vari-Rate Adjustable Gate Stop so it is at 60% of full open setting for your product (*Licensed Operator Adjustment Only*).

2. Pull the Trim Spread Handle back to lower the boarder patrol deflector (ON).

3. Open the Spreader Gate Open/Close Handle. Handle should be positioned to stop at Vari-Rate stop - See Position "B" in Figure 10. This way you will be spreading only to the right and the rate will be at 60% of the full rate. The spread pattern will start approximately 2" to 3" inches to the left of the front tire and spread out to the far right.

**Trimming to Right with Narrow Width Spread**

This is used for the narrow strip between sidewalks and the street.

1. Adjust the Vari-Rate Adjustable Gate Stop so it is at 60% of full open setting for your product (*Licensed Operator Adjustment Only*).
2. Move the Spinner Speed Control handle to the narrow position. This will reduce the spinner speed and narrow spread width.
3. Pull the Trim Spread Handle back to lower the boarder patrol deflector (ON).
4. Open the Spreader Gate Open/Close handle. Handle should be positioned to stop at Vari-Rate stop -



See Position "B" in Figure 10. This way you will be spreading a narrow pattern (approximate 5 to 6 foot) at 60% of the full rate and it will only be going to the right (See Figure 11).

**Reducing Spread Pattern 60% To Go Through a Narrow Area.**

1. Adjust the Vari-Rate Adjustable Gate Stop so it is at 60% of full open setting for your product (*Licensed Operator Adjustment Only*).
2. Move the Spinner Speed Control handle to the narrow position. This will reduce the spinner speed and narrow spread width.
4. Open the Spreader Gate Open/Close Control handle. Handle should be positioned to stop at Vari-Rate stop - See Position "B" in Figure 10. This way you will be spreading a narrow pattern (approximate 9 foot or less) at 60% of the full rate.

**SPREADING OPERATION ON THE LAWN**

All lawns are different. Most accidents happen when operators are not familiar with either the machine or the terrain on which they will be using the machine.

1. Practice with the T3200 before you try to operate it on a lawn. Practice in all kinds of conditions for at least 30 minutes. Simulate close quarter operation (i.e. between a fence and AC unit) before you actually try it. Climb curbs, get used to operation on mild slopes and making turns. Be totally familiar with your machine before you every try to apply products to a lawn. You will need practice before you become good at the controls and driving at the same time.

2. **BEFORE YOU GO ON THE LAWN**, Place the screen in the hopper, fill the hopper with the material you are going to spread.

3. **BEFORE YOU APPLY ANYTHING**, go on the property to be treated and drive slowly around the entire perimeter. Note or mark all obstacles, holes, rocks or anything that can be a hazard, harmed by the machine or cause damage to the machine.

4. Trim out the property to be treated. Pull the Trim Spread Handle back to lower the boarder patrol deflector (ON). You will be going around the property clockwise doing a trim strip around the outer edge of the property. Keep your left side wheels about 6 inches inside any walks or drives you do not want product on. As you start ahead open the spreader gate to the 60% setting as you are only spreading to the right. The Border Patrol Deflector will keep the fertilizer from going "off target" to the left.

5. Stop after going around the entire edge of the property. With the settings in the same trim positions, you will want to make a counterclockwise pass around all objects on the property.

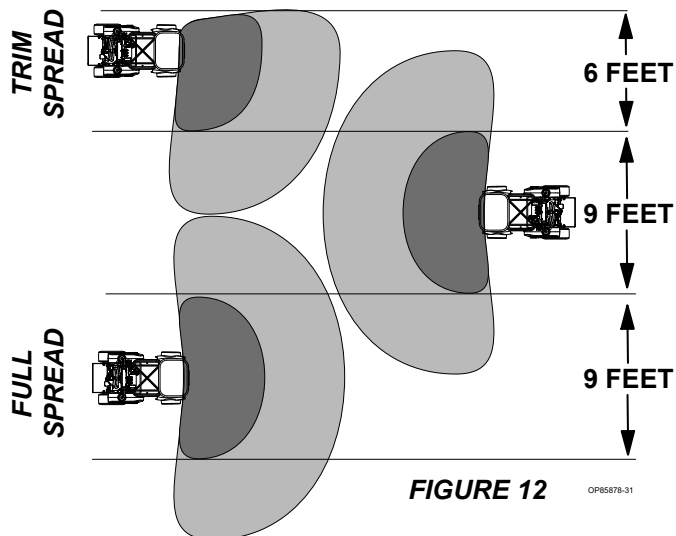


FIGURE 12

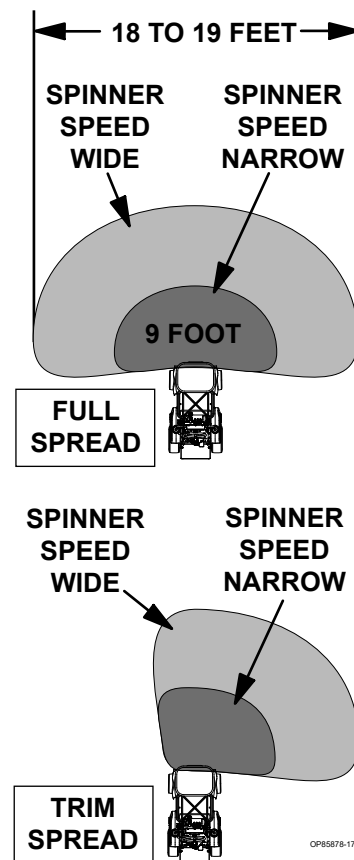


FIGURE 11

6. Stop. Push the Trim Spread Handle forward to raise the boarder patrol deflector (OFF). You will now make another pass around the property exactly 6 feet out from the last pass tire track. The Spreader gate will be in the full open position. When you have finished this pass you will have a 13 foot band around the entire property to be used for turning. You are now ready to applicate the lawn.

7. To applicate go straight across the lawn, with the spreader gate in the full open position. As your spread hits the 13 foot turning band on the side of the lawn, turn off the spread and make a 180° degree turn. The machine will come straight at 9 feet from your last tire track. Turn on the spread, keeping the T3200 9 feet from your last tire track all the way across the lawn. Continue this procedure until you are done with the lawn.

## The Sprayer

The sprayer has several components and controls you should be familiar with before operating the machine.

**1. ELECTRIC SPRAY PUMP (See Figure 14)** - The electric spray pump is located behind the rear console cover, between the spray tanks.

**2. PUMP ON/OFF SWITCH (See Figure 14)** - Use the Pump ON/OFF switch to turn spray ON/OFF at the beginning or end of each pass. If recirculation in tanks is needed while filling, turn off all the spray controls, turn ON pump switch, and adjust pressure to 0 PSI.

**3. PUMP PRESSURE CONTROL AND GAUGE (See Figure 14)** - The Turfco T3200 Applicator has an adjustable pressure spray system. The gray knob adjusts the pressure and the pressure is indicated on the gauge. The amount of pressure in the system controls the amount of product being sprayed. **Calibration, set-up and adjustment of this control can only be done by licensed personnel.** The pump pressure should never be adjusted by the operator in the field. Consult the sprayer calibration adjustments in this manual. Watch the pressure gauge during operation. The gauge should read 40 PSI when spraying. Note: If the tanks are empty, the gauge will read zero.

**4. TANKS (See Figure 15)** - The Turfco T3200 Applicator has two liquid tanks. Each tank has a capacity of 10 gallons for a total of 20 gallons (75.1 liters). The tanks are connected to maintain an equal balance in both tanks. The product being sprayed is equally pumped from both tanks and any by-pass of product is equally returned to both tanks. The by-pass flowing back to the tanks is the agitation in the tanks to maintain product mix. Liquid solutions are all that are supposed to be used in these tanks. Wettable (soluble) powders may plug the system and should not be used. **PROPERLY MIX THE PRODUCT BEING SPRAYED OUTSIDE OF THE TANKS BEFORE FILLING THE TANKS. TO AVOID CONTAMINATION OF WATER SUPPLIES, NEVER PLACE A HOSE DOWN IN THE TANK.**

**5. SPRAY CONTROLS (See Figure 14)** - There are three spray control levers to select which function to use. Only use one control at a time.

- The right control selects the full (wide) spray nozzle.
- The center control selects the spray (hand) gun.
- The left control selects the trim spray nozzle.

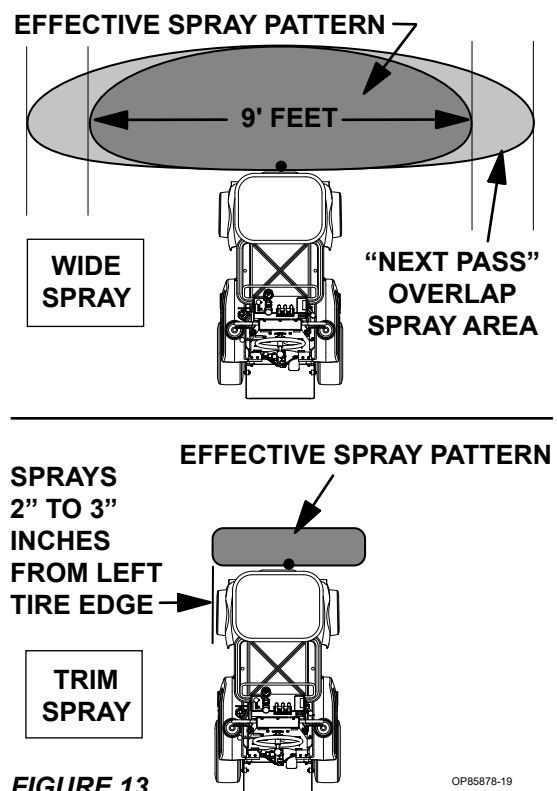
**6. SPRAY NOZZLES (See Figures 13 and 15)** - There are two nozzles, one wide spray nozzle and one trim spray nozzle. The Full and Trim nozzles will apply 1 quart per thousand sq. ft. at 40 psi (while spraying) and 5 mph (8.04 Km/h) when properly calibrated.

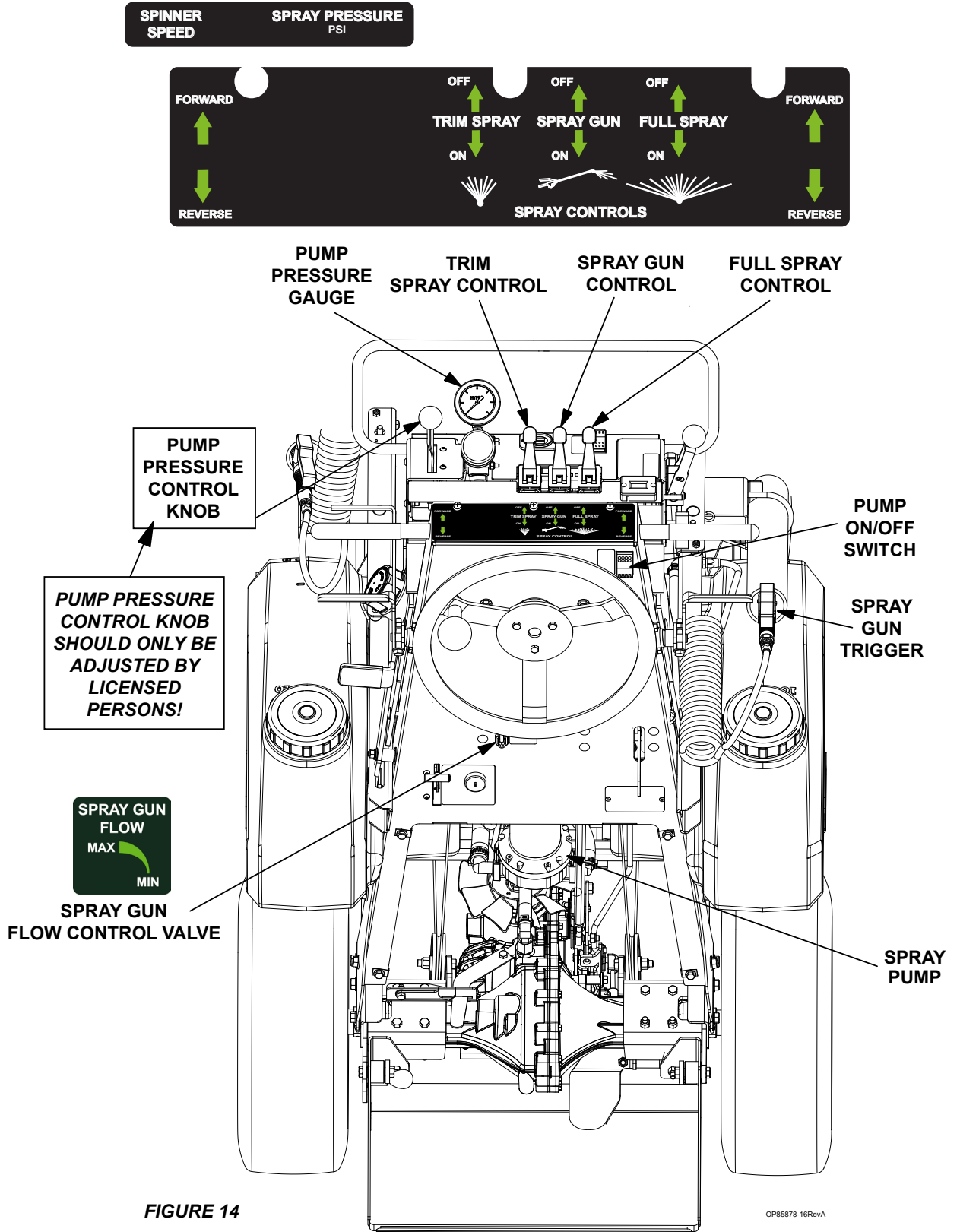
### See Page 28 for Sprayer Calibration

- The full (wide) spray nozzle is located above the front cover and is centered on the machine. This nozzle must be angled 15° to 25° degrees down towards the turf to provide the correct spray pattern. The nozzle produces 9 foot wide "Effective Spray Pattern" combined with a "Next Pass" overlap on both sides resulting in a 12 foot wide spray pattern. Note that the 9 foot turning radius of the machine will place you back in line with the overlap "Next Pass" spray for your next pass.

- The trim spray nozzle is located under the front bumper and placed off to the right side of the machine. The trim nozzle should be level with the ground. This nozzle produces a 3' to 4' foot wide "Effective Spray Pattern". The left edge of the spray pattern is 2" to 3" inches to the left edge of the left front tire for close trimming.

**7. SPRAY GUN (See Figure 14)** - The hand spray gun allows the operator to spot spray product in small areas. Turn on center spray control and turn on spray pump to use spray gun. Use the spray gun flow control valve to control (limit) the amount of flow to the spray gun. All other spray controls should be off when using the spray gun.





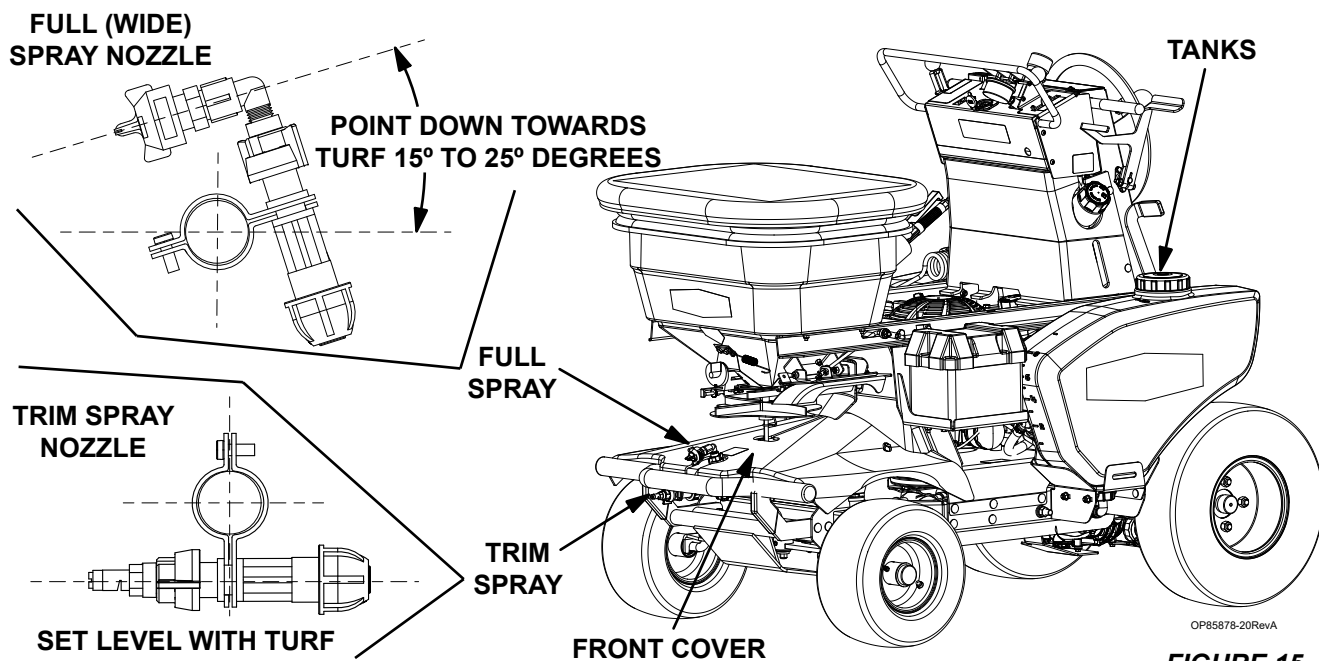


FIGURE 15

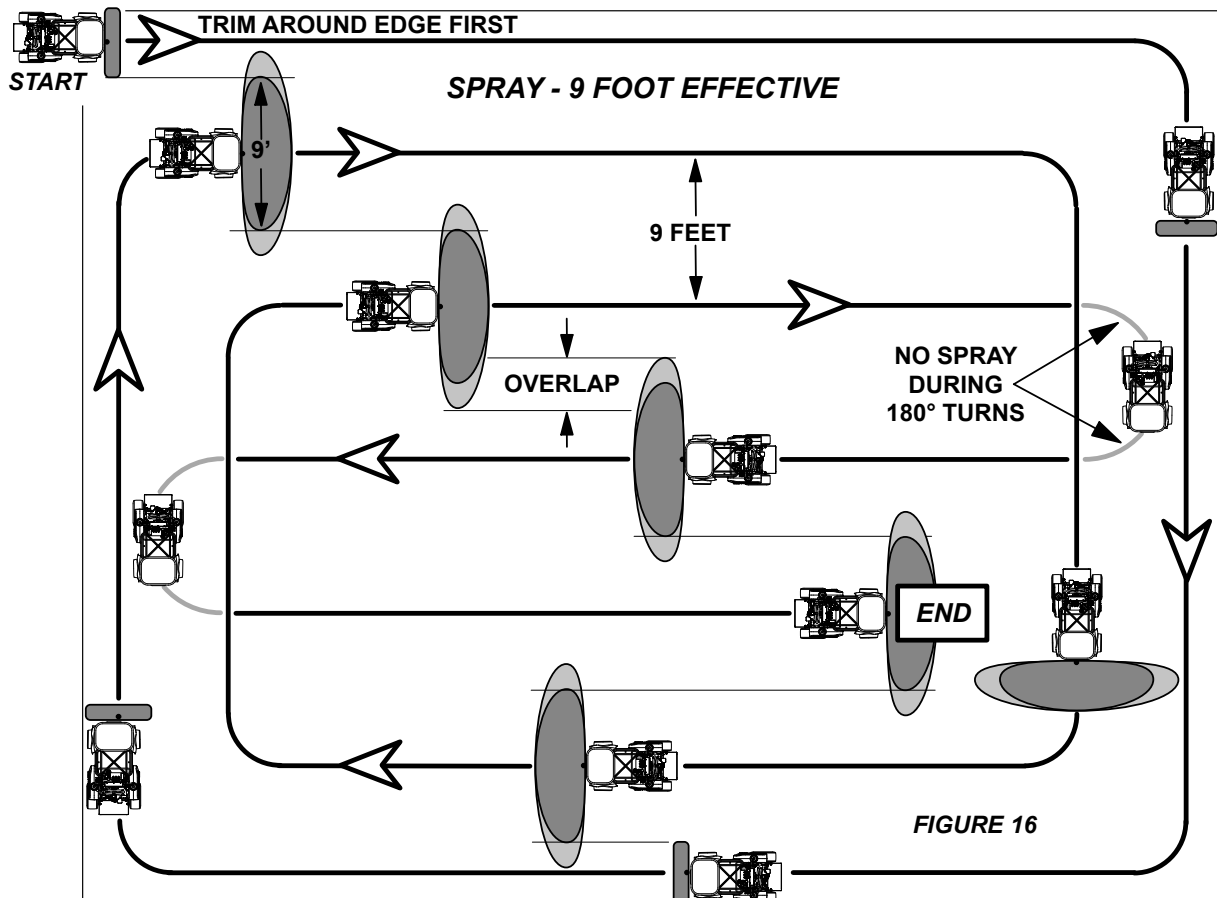
### SPRAY OPERATION ON THE LAWN

All lawns are different. Most accidents happen when operators are not familiar with either the machine or the terrain on which they will be using the machine. Practice with the T3200 before you try to operate it on a lawn. Practice in all kinds of conditions for at least 30 minutes. Simulate close quarter operation (i.e. between a fence and AC unit) before you actually try it. Climb curbs, get used to operation on mild slopes and making turns. Be totally familiar with your machine before you even try to spray product to a lawn. You will need practice before you become good at the controls and driving at the same time.

1. **BEFORE YOU GO ON THE LAWN**, fill the tanks with the product you are going to spray.
2. **BEFORE YOU SPRAY ANYTHING**, go on the property to be treated and drive slowly around the entire perimeter. Note or mark all obstacles, holes, rocks or anything that can be a hazard, harmed by the machine or cause damage to the machine.
3. First trim out the property to be treated. Pull up on the "Trim Spray" control lever to select the trim nozzle. You will be going around the property clockwise doing a trim strip around the outer edge of the property. Keep your left side tire about 2 to 3 inches away from any

walks or drives you do not want product on. As you start moving ahead, turn the spray pump on using the pump ON/OFF switch. The trim spray nozzle will spray 3' to 4' feet wide. The spray will start 2" to 3" inches to the left of the left front tire.

4. Turn spray pump off after trimming around the entire edge of the property. Using the same "Trim Spray", you will want to make a counterclockwise pass around all objects on the property.
5. Stop. You will now make another pass around the property exactly 6 feet out from the trim pass tire track. Pull up on the "Full Spray" control lever to select the full spray nozzle. Turn the spray pump on to start spraying.. When you have finished this pass you will have a 13 foot band around the entire property to be used for turning. You are now ready to spray the lawn.
6. To applicate go straight across the lawn selecting the full spray control. As your spray hits the 13 foot turning band on the side of the lawn, turn off the spray pump and make a 180° degree turn. The machine will come straight at 9 feet from your last tire track. Turn on the spray pump, keeping the T3200 9 feet from your last tire track all the way across the lawn. Continue this procedure until you are done with the lawn.



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## Transporting the Machine to the Worksite

Whether you use trailers, carriers or a pickup, loading and unloading the T3200 Applicator is very easy using the hydrostatic drive. Just approach the load area or ramps, get off the machine and slowly walk it into or onto the transport device. **Never attempt to ride the machine while loading.**

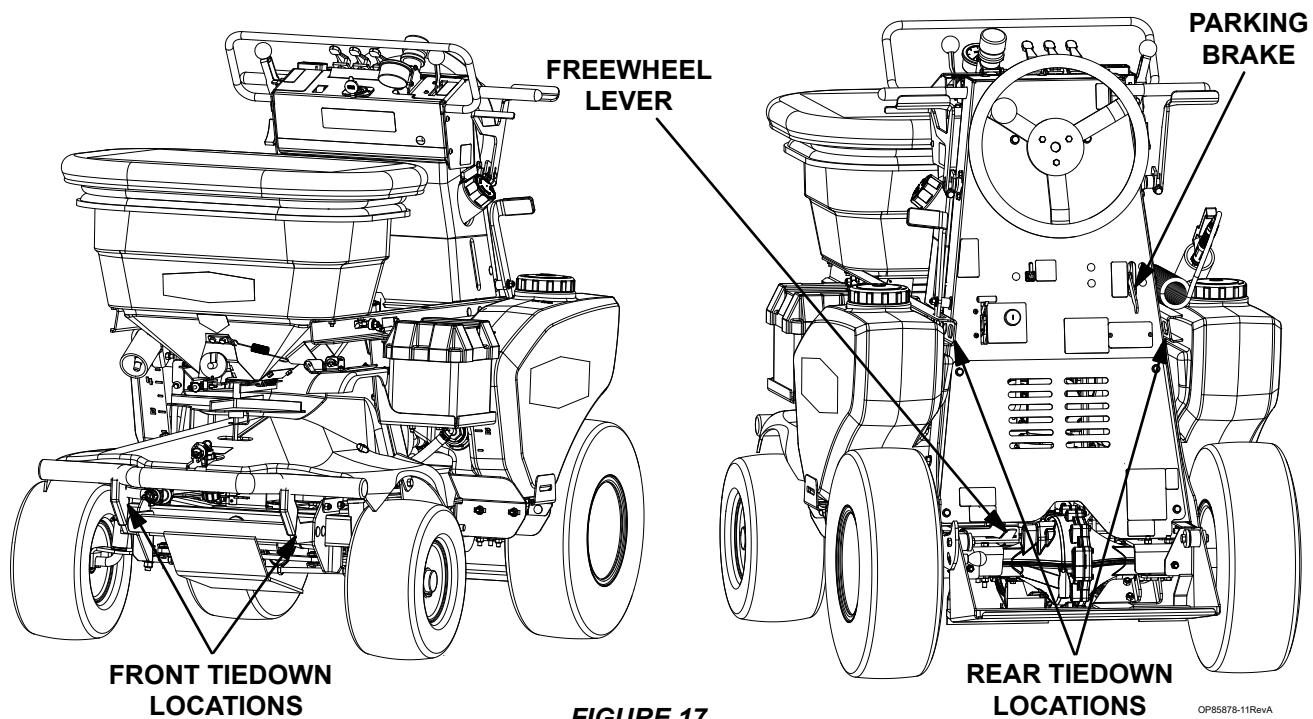
Unloading is just the opposite as loading. Walk slowly with the machine using the speed control to move the machine. **Do not attempt to ride the machine down ramps, carriers or trailers while unloading the machine.**

If you need to push the machine by hand, the transaxle has a freewheel “neutral” position so the machine can be moved without starting the engine. Just place the transmission neutral lever in the freewheel position and it will make the machine free wheel so you can move the machine by pushing it. **WARNING - When the freewheel lever is in the neutral position, the machine can roll away on ramps and slopes.** Use the parking brake to secure the machine.

Always secure machine for transport using the frame tie down locations shown in Figure 17. Do not attach ties to the fertilizer hopper, tanks or other parts of the machine. Always engage the parking brake when transporting. Do not rely on just the parking brake when transporting, machine needs to be secured with tie downs.

### Loading and Unloading using Ramps

1. Position the machine at the bottom of the ramps.
2. The operator should be **off the machine** standing behind the operators platform.
3. Using the Speed Control Lever slowly advance the machine forward and up the ramps into the trailer, truck or carrier. The operator will remain off the machine the entire time.
4. Unloading is the same process. The operator will remain **off the machine** slowly walking the machine down the ramps.



## TROUBLESHOOTING TABLE

PROBLEM	POSSIBLE CAUSE
GROUND SPEED WRONG	ENGINE RPM INCORRECT (Should be 3000 +/- 100)
	MISADJUSTED TRANSAXLE ADJUSTMENT ROD
	V-BELT TO TRANSAXLE DAMAGED OR MISADJUSTED
	PARKING BRAKE ON OR NOT DISENGAGING
	OVERLOADED
	TRANSAXLE PROBLEMS
STEERING PROBLEMS	DAMAGED OR LOOSE STEERING CABLES
	DAMAGED OR BENT TIE RODS, WORN TIE ROD ENDS
	BENT SPINDLES
	FRONT WHEEL BEARINGS
EXCESSIVE NOISE OR VIBRATION	LOOSE COVERS OR GUARDS
	PUMP MOUNTS LOOSE
	MOTOR MOUNTS LOOSE OR DAMAGED
	ENGINE PULLEY LOOSE, IDLER PULLEY BEARINGS DAMAGED OR WORN

SPREADER PROBLEMS	
SPINNER NOT ROTATING	V-BELT FAILURE OR TENSION SETTING WRONG
	VARIATOR PULLEY JAMMED OR VARIATOR CABLE BROKEN
	MISSING SPINNER SHAFT PINS
	WORN OR DAMAGED SPINNER SHAFT BEARING IN HOPPER
	WORN OR DAMAGED SPINNER SHAFT DRIVE PULLEY BEARING
POOR SPREAD	GATE SETTING WRONG OR GATE NOT OPENING
	VARIATOR SETTING WRONG
	DEBRIS IN GATE
	GATE CONTROL CABLE NOT OPERATING
	BORDER CONTROL HEIGHT - HANDLE IN WRONG POSITION
	ACCUWAY CLOGGED
	ENGINE RPM INCORRECT (Should be 3000 +/- 100)
GROUND SPEED INCORRECT (Should be 5 mph)	
SPREADING HEAVY TOWARDS LEFT OR RIGHT SIDE	ACCUWAY SPREAD PATTERN ADJUSTER SETTING WRONG

## TROUBLESHOOTING TABLE

PROBLEM	POSSIBLE CAUSE
SPRAYER PROBLEMS	
NO PRESSURE OR LOW PRESSURE	BLOCKED FILTER
	SHUTOFF VALVE IN OFF POSITION
	PUMP FUSE BLOWN (30 Amp)
	PUMP FAILURE
	HOSES FROM TANK TO PUMP BLOCKED OR KINKED
	HOSES FROM PUMP TO REGULATOR BLOCKED OR KINKED
	PRESSURE REGULATOR FAILURE OR SET WRONG
	SYSTEM AIR LOCKED, VENTS ON TANK CAPS BLOCKED
PRESSURE BUT NO SPRAY	BLOCKED SPRAY TIPS
	BLOCKED FILTER
	DAMAGED SPRAY CONTROLS
	DAMAGED OR KINKED HOSES TO SPRAY TIPS
OSCILLATING PUMP PRESSURE NEEDLE (RAPID 10+ LBS. MOVEMENT)	SYSTEM LEAKS
	KINKED HOSE
	FILTER BLOCKED
	PRODUCT LEVEL IN TANKS TOO LOW
	BAD PUMP
	PRODUCT IN TANKS FOAMING - KEEP TANKS 1/3 FULL
POOR SPRAY	MISSING SPRAY TIPS
	BLOCKED SPRAY TIPS
	PRESSURE SETTING WRONG
	SPRAY TIP MOUNTING ANGLES WRONG
SYSTEM LEAKS	DAMAGED OR LOOSE HOSES
	PUMP FAILURE, PUMP LEAKING AT SEALS, REPLACE PUMP
	DAMAGED OR CRACKED FITTINGS
	DAMAGED OR LOOSE O-RINGS ON FITTINGS
	DAMAGED TANKS OR TANK FITTINGS
SPRAY GUN NOT WORKING	BLOCKED SPRAY GUN TIP
	MISADJUSTED SPRAY GUN TIP
	SPRAY GUN FLOW CONTROL VALVE NOT OPENED



**Calibration of Machine Speed**

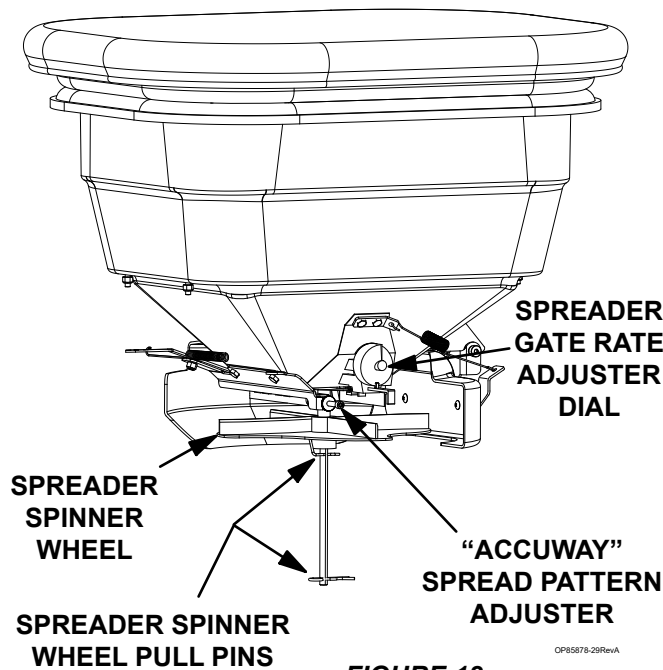
*Calibrate the machine for 5 mph forward speed.  
Calibration should only be done by licensed persons.*

Mark a length of 88 feet on a level surface.

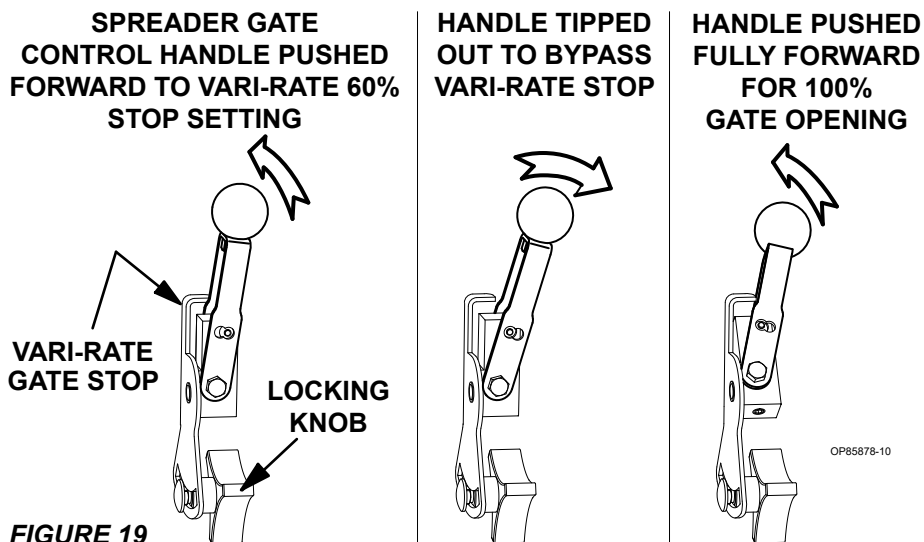
A. With a running start, time how long it takes to travel the 88 ft    A= \_\_\_\_\_ sec

B. Measured mph (60 ÷A)    B= \_\_\_\_\_ mph

Adjust speed rod as needed to get to 5 mph forward speed. At 5 mph speed and 9 feet effective width, machine will cover 4000 ft<sup>2</sup> per minute.



**FIGURE 18**



**FIGURE 19**

## Calibration of Spreader

*Calibrate the spreader for the product desired. See the product label for application rates.  
Calibration should only be done by licensed persons.*

### Full Spread Calibration

This will set the fertilizer application rate when spreading at the full width setting of 18 feet (9 feet effective width, covering 4000 ft<sup>2</sup> per minute).

- Step 1. *Remove spinner wheel and set spinner shaft back in hopper bushing to prevent fertilizer from falling out. Pour at least 20 lbs of fertilizer in the hopper.*
- Step 2. *Set the spreader gate control handle to the tipped out position (bypass the vari-rate stop, see figure 19). This will allow the gate rate adjuster dial to control the gate opening.*
- Step 3. *Place plastic tray under gate opening to catch the fertilizer. Set gate rate adjuster dial to desired setting (factory setting is 5.4 as a starting point).*
- Step 4. *Open the fertilizer gate by pushing the spreader gate control handle all the way forward. Leave open for 1 minute then close.*
- Step 5. *Weigh the amount of fertilizer caught and divide by 4. This is your fertilizer application rate in lbs per 1000 ft<sup>2</sup>. Adjust gate rate adjuster dial as needed and repeat steps 2-5 until you achieve desired application rate.*

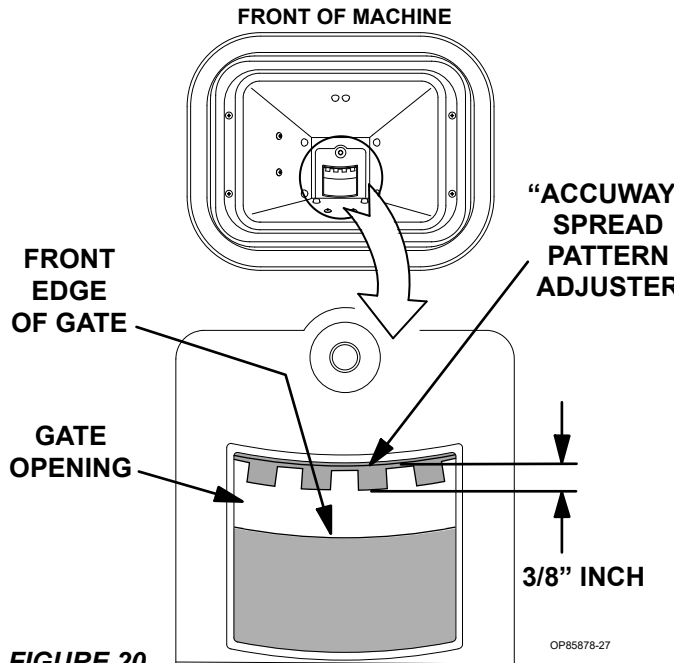
### Trim/Narrow Spread Calibration

This will set the fertilizer application rate when spreading the narrow width setting of 12 feet (6 feet effective width covering 2667 ft<sup>2</sup> per minute) or trim deflector is down.

- Step 1. *Remove spinner wheel and set spinner shaft back in hopper bushing to prevent fertilizer from falling out. Pour at least 20 lbs of fertilizer in the hopper.*
- Step 2. *Set the spreader gate control handle to the tipped in position (see figure 19). This will allow the vari-rate stop up at the spreader gate control handle to control the gate opening.*
- Step 3. *Place plastic tray under gate opening to catch the fertilizer. Adjust vari-rate stop to desired setting by loosening knob and rotating stop forward to increase application rate, rotating stop backward to decrease application rate. (Vari-rate stop is set from the factory at a starting point for calibration).*
- Step 4. *Open the fertilizer gate by pushing the spreader gate control handle all the way forward. Leave open for 1 minute then close.*
- Step 5. *Weigh the amount of fertilizer caught and divide by 2.67. This is your fertilizer application rate in lbs per 1000 ft<sup>2</sup>. Adjust vari-rate stop as needed and repeat steps 2-5 until you the application rate matches the full spread calibration.*

**Setting the “Accuway” Spread Pattern Adjuster (See Figure 20 and Figure 21)**

The Accuway Spread Pattern Adjuster is a black plastic wedge that is under the spreader gate opening. When the gate is opened, the Accuway wedge controls where the material lands on the spinner wheel. This affects the throw of the material. If the material lands closer to the center of the wheel, it spreads more material to the right. If it lands closer to the outside edge of the wheel, it spreads more material towards the left.



**FIGURE 20**

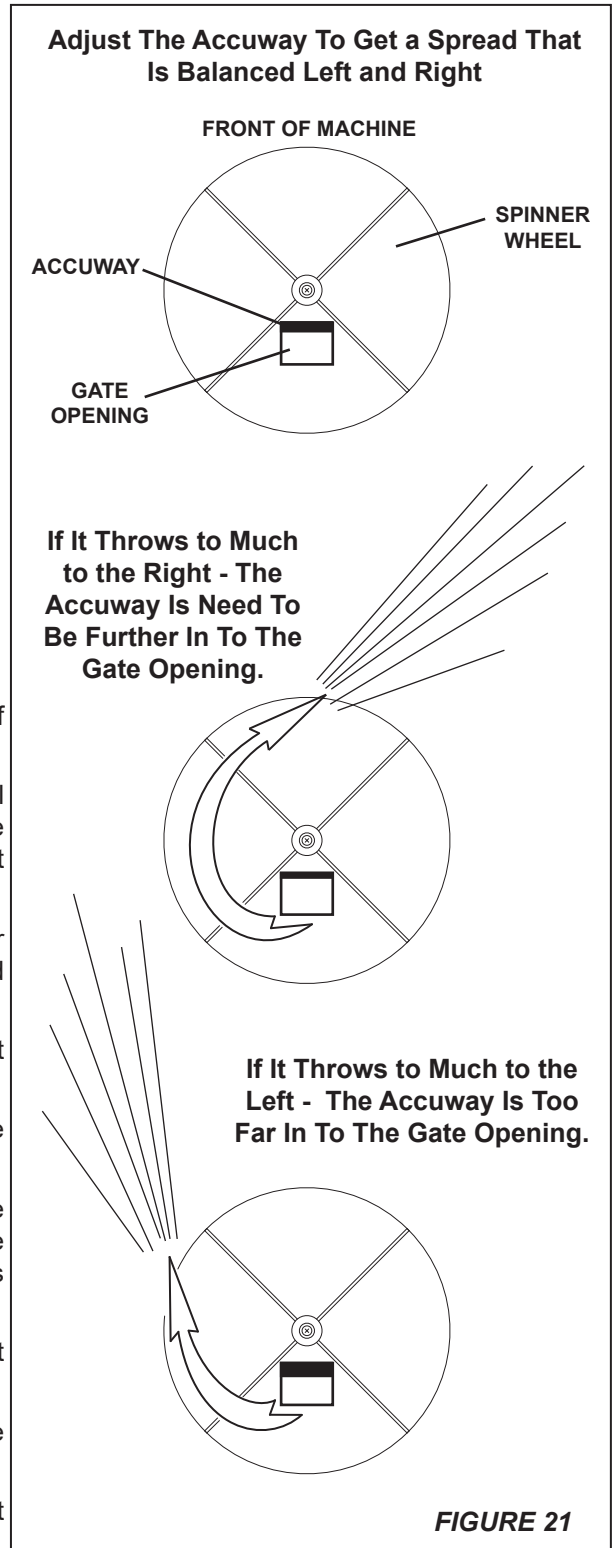
Material drops out of the hopper just behind the center of the wheel (spinner wheel rotates clockwise).

Product that lands closer the center of the spinner wheel has farther to travel on the wheel as it moves to outside edge to be thrown. As a result of staying on the wheel longer, it gets thrown out last - or to the right.

Product that lands closer the outside edge of the spinner wheel is thrown first. It is on the wheel for a shorter time and is thrown out first - or to the left.

Adjust your Accuway to give a even balanced left to right spread. Start with an empty hopper -

- Open the gate all the way. Look straight down into the opening, you will see the black plastic Accuway wedge.
- Screw the adjuster knob (on front of hopper) so the Accuway moves into the gate opening. Move the Accuway far enough forward so that 3/8" of an inch is visible in the opening.
- To adjust the throw more to the left, increase the amount that the Accuway is visible in the opening.
- To adjust the throw more to the right, decrease the amount that the Accuway is visible in the opening.
- Continue moving the wedge until you get the left to right balance spread of the product.



**FIGURE 21**

*Note: The Accuway pattern adjuster needs to be changed when the gate opening size is changed (recalibrated) or product type is changed.*

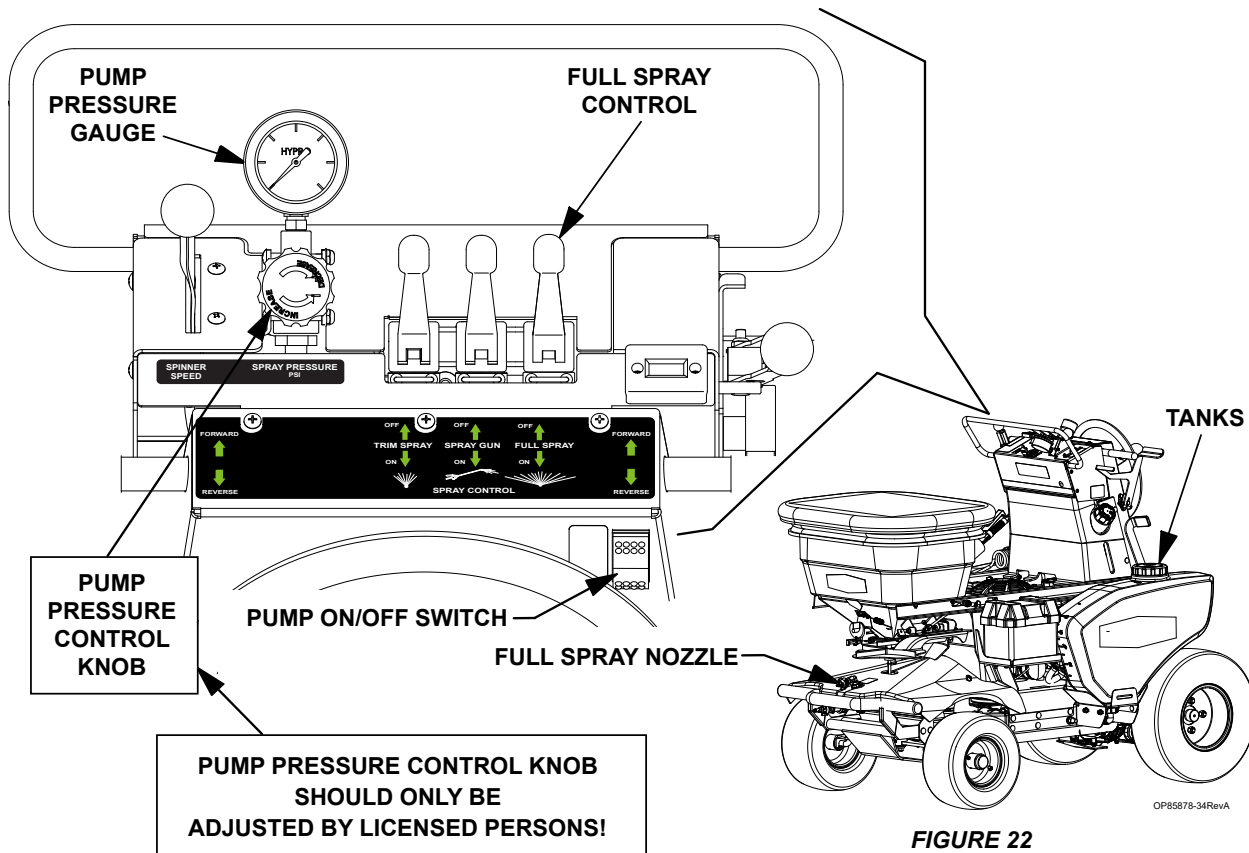
**Calibration of Sprayer**

**Calibrate the sprayer for the product desired. See the product label for application rates**  
**Calibration should only be done by licensed persons.**  
**Perform all calibration using water only!**

**Full Spray Calibration**

This will set the spray application rate when spraying with the full spray control at full width (sprays 11-12 feet, giving a 9 feet effective width once overlap is accounted for).

- Step 1. Fill side tanks at least half full of water. Place a container under the full spray nozzle to catch all the water that will be sprayed.
- Step 2. With a fully charged battery, turn key to ON position and turn on spray pump. You should be able to hear the pump running. Start with the pressure at 40 PSI when the full spray control handle is on (spraying).
- Step 3. With the container empty, turn the full spray control handle on (spraying). Leave on for 1 minute then close handle (stop spraying).
- Step 4. Measure the amount of water in the catch container and divide by 4. This is the application rate in gallons per 1000 ft<sup>2</sup>. Remember if measuring by ounces, there are 128 ounces in 1 gallon.
- Step 5. The factory installed blue nozzle should output 0.25 gallons per 1000 ft<sup>2</sup>. If this is not the case, adjust the pressure up or down and test again until you get the desired spray rate.
- Step 6. Once calibrated, check the width of the spray pattern. Spray a paved area for about one minute. Measure the width of the spray pattern. It should be 11-12 feet to get an effective width of 9 feet with overlap. Adjust angle of nozzle up to increase spray width or down to decrease spray width as needed.



### 6 Foot Spray Width Calibration

This will set the spray application rate when spraying with the full spray control at narrow width (sprays 8-9 feet, giving a 6 feet effective width once overlap is accounted for). This setting is to match spreading fertilizer on the narrow setting.

Step 1. *Fill side tanks at least half full of water. Place a container under the full spray nozzle to catch all the water that will be sprayed.*

Step 2. *With a fully charged battery, turn key to ON position and turn on spray pump. You should be able to hear the pump running. Start with the pressure at 15 PSI when the full spray control handle is on (spraying).*

Step 3. *With the container empty, turn the full spray control handle on (spraying). Leave on for 1 minute then close handle (stop spraying).*

Step 4. *Measure the amount of water in the catch container and divide by 2.67. This is the application rate in gallons per 1000 ft<sup>2</sup>. Remember if measuring by ounces, there are 128 ounces in 1 gallon.*

Step 5. *The factory installed blue nozzle should output 0.25 gallons per 1000 ft<sup>2</sup>. If this is not the case, adjust the pressure up or down and test again until you to get the desired spray rate.*

Step 6. *Once calibrated, check the width of the spray pattern. Spray a paved area for about one minute. Measure the width of the spray pattern. It should be 8-9 feet to get an effective width of 6 feet with overlap. Adjust angle of nozzle up to increase spray width or down to decrease spray width as needed.*

Here is the spray rate chart for nozzles using the standard 5.3 GPM spray pump and operating at 5 mph:

Nozzle	Spray Rate (gallons per 1000 ft <sup>2</sup> )
HF 140-10	1/4
HF 140-15	3/8
HF 140-20	1/2

To spray rates higher than 1/2 gallon per 1000 ft<sup>2</sup>, contact Turfco about ordering a high spray rate kit.

SERVICE AND MAINTENANCE



**TO AVOID SERIOUS INJURY,  
Do Not Service, Inspect, Lubricate Or  
Adjust The T3200 With Any Part of the  
Sprayer or Spinner Assembly Operating  
or With the Engine Running.**

**All Of The Service And Adjustment Procedures  
Involve Or Are Near Rotating And Moving Parts.  
Work Safely, Follow All Hazard Warnings, Decals,  
Safety Precautions And Wear The Appropriate  
Safety Gear.**

**Operator Daily Inspection**

*INSPECTION* - A general inspection is a good idea before the machine is ready to used or put away. Before and after each use, check the following items:

- Inspect for damaged or missing guards or covers. Do not operate any machine with missing or damaged guards.
- Inspect entire T3200 for damaged or inoperable components. Do not operate any machine with damaged or inoperable components.

- Inspect the entire machine for loose fasteners. Retighten as required.
- Inspect all the operator controls for proper operation.
- Check the tires for proper inflation.
- Inspect the spinner assembly spinner wheels. Check for proper alignment, damage, wear, and missing hardware.
- Check for a buildup of fertilizer on spinner assembly components and the hopper gate. Check for a buildup on and under the spinner wheels. Check for debris caught in spinner wheel.
- Check for a buildup of fertilizer on components under the hopper.
- Periodically inspect the steering cables for wear or damage.
- Protect from rust and moisture with a very light coating of machine oil.

**INSPECTION OF THE V-BELTS** - The lower front cover needs to be removed so you can clean or inspect the belts. To remove the cover, twist out the two thumb screws and slide the cover forward. You may now inspect and clean the belts or grease the belt idler.

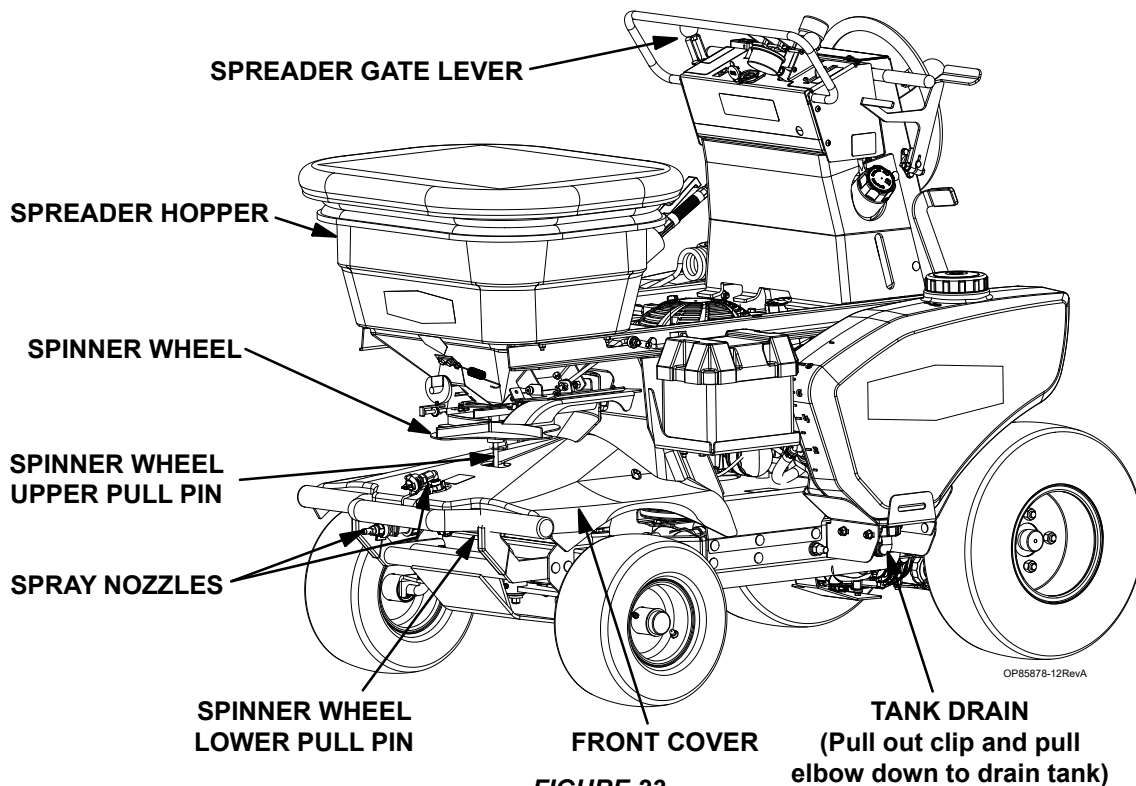


FIGURE 23

## CLEANING

**IMPORTANT!!**

Keeping the machine clean and free of fertilizer and chemical residue is critical to the life of the machine. Always wash the machine until it is clean and free of fertilizer everywhere.

**Fertilizer left on the machine will ruin the paint and cause corrosion.** This will damage the machine and be the cause of failures later.

- Clean the entire machine by blowing off debris with air. If needed, can wash off with a hose or low pressure washer.
- Avoid high pressure washing around bearings.
- Wash out the Fertilizer hopper.
- Move the gate opening lever while washing to make sure the gates are clean and free of chemicals. Use a dry lubricant on the spreader linkages.
- Clean the carburetor governor springs and linkages weekly. Refer to Lubrication Section in this Manual.
- Sparingly apply light machine oil to control rust. Refer to Lubrication Section in this Manual.

**Storage**

TO STORE THE T3200 OVER AN EXTENDED PERIOD, perform a complete inspection. Refer any needed service or repair to service level personnel.

- Completely clean the hopper and spinner wheel. Use low pressure wash, DO NOT use high pressure wash.
- Perform a complete lubrication procedure.
- Lubricate engine in accordance with the engine manufacturers instruction.
- Lubricate all grease fittings.
- Empty the engine fuel tank.
- Apply a film of light machine oil to the pivot points, ball joints, steering components and engine to control rust.
- Flush and drain the tanks. Leaving caustic products in the system for storage could damage the pump and hoses. (See *Protection Against Freeze Damage in the Winter Storage section*)
- To protect the rubber and plastic parts, store the T3200 out of direct sunlight.

TO RETURN TO SERVICE AFTER EXTENDED STORAGE, inspect the entire machine for any damage that may have occurred during storage.

- Perform a complete lubrication procedure. Lubricate engine in accordance with the engine manufacturers instruction. Refer any needed service or repair to service level personnel.

**REMOVAL OF THE SPINNER WHEEL (See Figure 24)** - The spinner wheel can be removed to aid in inspection and cleaning. First remove two spinner wheel pull pins. One from under the spinner and one on the bottom of the spinner shaft. Then pull the spinner shaft up and through the bottom of the fertilizer hopper. To replace the spinner shaft and spinner just do the reverse and replace the front cover.

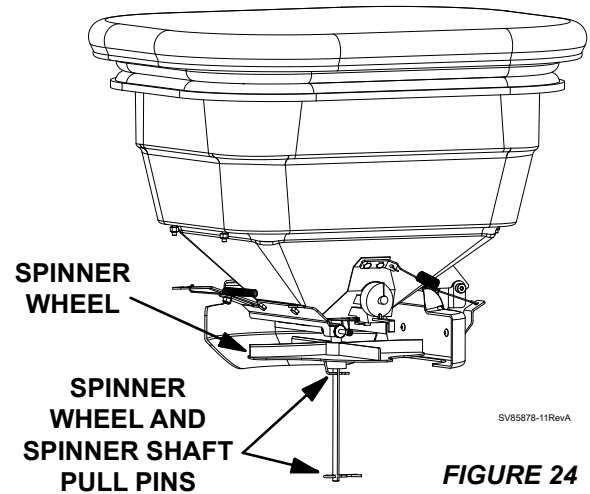


FIGURE 24

**Winter Storage****Protection Against Freeze Damage**

The pump, tanks and spray system must be protected from freezing during storage. Use the following steps-

- Flush the entire spray system with clean water. Run the pump until the tanks are completely empty and water no longer sprays from the tips and the hand held wand.
- Stop the engine and remove the cap from the strainer. Allow any water to drain from the pump and hoses. Replace the cap.
- Put 1 gallon of RV antifreeze in each tank.

**DANGER**

**TANKS MUST BE FLUSHED WITH WATER. DO NOT PUT ANTIFREEZE IN WITH CHEMICAL OR FERTILIZER AS A CHEMICAL REACTION CAN OCCUR. CHEMICAL REACTIONS CAN RELEASE HARMFUL AND TOXIC GASSES.**

- Run the pump to circulate the antifreeze in the system.
- Open each valve one at a time until antifreeze sprays from the tips. Use the hand held spray wand until antifreeze sprays from the tip.

*Do not spray out all of the RV antifreeze, allow antifreeze to remain in strainer cap, pump, controls and tanks.*

Lubrication

ENGINE AND TRANSAXLE (See Figure 25)

**Engine:** CHECK OIL LEVELS DAILY. Follow the engine manufacturer’s manual for intervals of oil change, oil filter replacement, and proper oil types. Engine oil capacity is 48 fluid ounces. Inspect and clean/replace the engine air filter as needed.

**Engine Carburetor Linkages and Springs:** CLEAN AND LUBRICATE WEEKLY. Clean and remove fertilizer dust from the linkages, governor springs, choke linkage on the carburetor with carb cleaner. Lightly lubricate to protect from rust. Wipe away excess lubrication that will attract and collect dust, dirt and debris.

**Transaxle:** Check the level of fluid in the transaxle reservoir. Fill only to the “Full Cold” level mark on the reservoir (located very low on reservoir). Use 20W/50 engine oil for the transaxle. Do not overfill. Transaxle capacity is 95.5 fluid ounces (2.8 Liter/3 quarts). Add extra to allow for filter, the reservoir and the reservoir hose (approximately one quart).

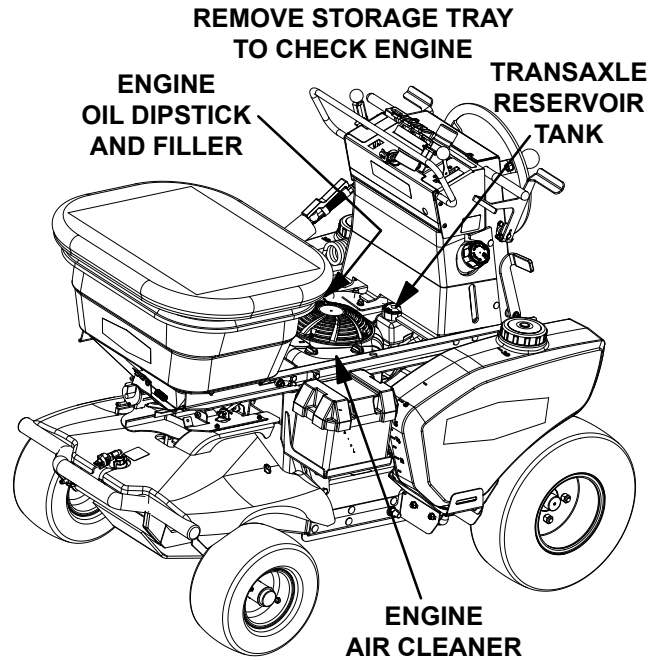


FIGURE 25

SV85878-02RevA

GREASE FITTINGS (See Figure 26)

**Grease Fittings:** (qty 7) Grease weekly. Wipe away excess lubrication that will attract and collect dust, dirt and debris.

GREASE FITTING LOCATIONS (TOTAL OF 7)

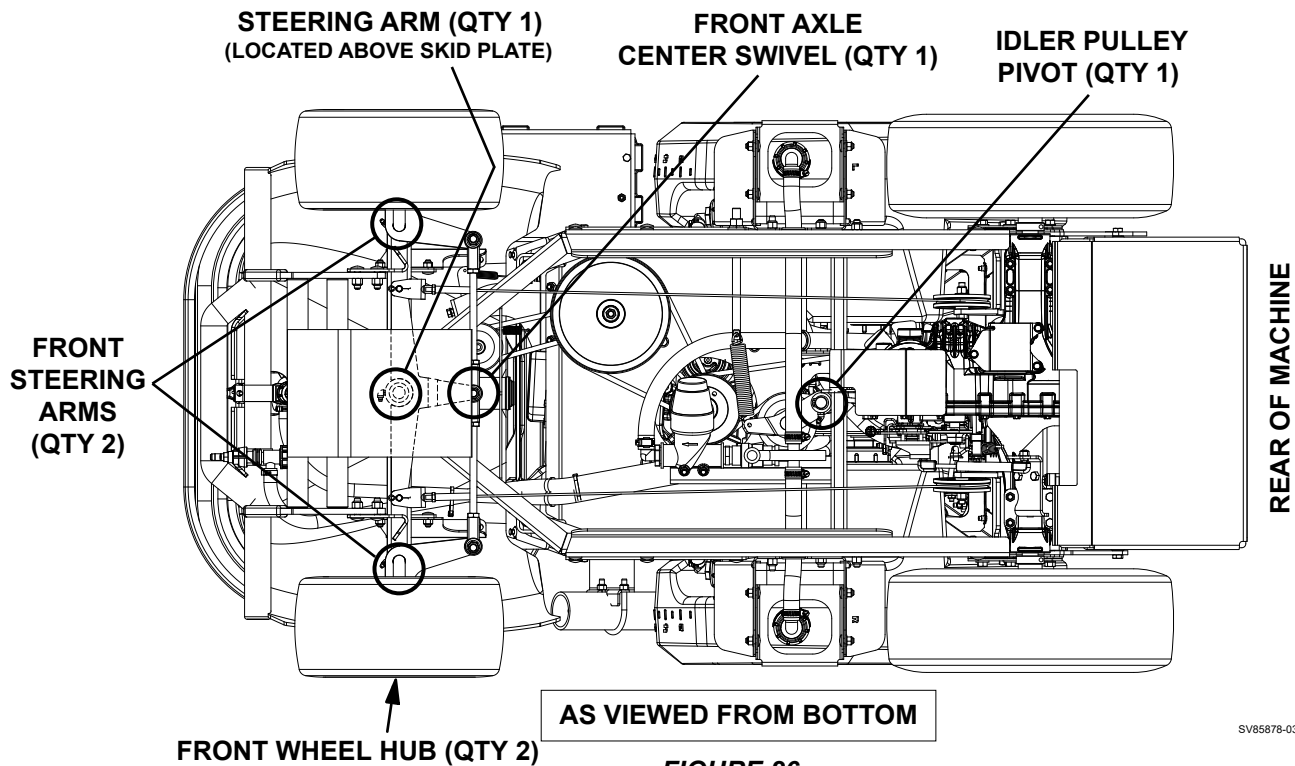


FIGURE 26

SV85878-03Rev



**T3200 Recommended Service Schedule**

WHEN TO PERFORM SERVICE	DAILY	WEEKLY	BREAK-IN PERIOD	PERFORM EVERY			OFF SEASON
				50 HOURS	100 HOURS	400 HOURS	
CLEAN OFF FERTILIZER WITH AIR	X						X
IF NECESSARY WASH WITH WATER		X					X
INSPECT HARDWARE	X						X
GREASE FITTINGS (7)		X					X
<b>ENGINE</b> CHECK OIL LEVEL CHANGE OIL & FILTER CHECK/CLEAN AIR FILTER CHANGE AIR FILTER CLEAN CARB LINKAGE CHECK SPARK PLUG	X		5 hrs	X			X
		X			X		X
		X					X
<b>TRANSAXLE</b> CHECK FLUID LEVEL CHANGE FLUID & FILTER		X	75 hrs			X	X
CHECK TIRE AIR PRESSURE CHECK AND ADJUST STEERING CABLE TENSION CHECK/CLEAN SPRAY NOZZLES CLEAN STRAINER LUBE HOPPER GATE INSPECT V-BELT TENSION		X	5 hrs	X			X
		X					X
		X					X
		X					X
		X					X
<b>WINTERIZATION</b> DRAIN FUEL AND ADD FUEL STABILIZER TO GAS TANK EMPTY WATER AND ADD 2 GALLONS OF RV ANTIFREEZE DISCONNECT BATTERY CABLES CHECK V-BELTS FOR WEAR, REPLACE IF NEEDED ADJUST PARKING BRAKE CHANGE FUEL FILTER INSPECT HOSES FOR CRACKS, REPLACE IF NEEDED							X
							X
							X
							X
							X
							X
							X

**USE A DRY LUBRICANT ON THE SPREADER HOPPER LINKAGES TO AVOID ATTRACTING A BUILDUP OF FERTILIZER, DUST, DIRT, AND DEBRIS ON THE COMPONENTS.**

**LOCATION OF SPRAY SYSTEM SHUTOFF VALVE AND STRAINER SCREEN**  
(See Figure 27)

When the handle on the shutoff valve is pulled down, flow from the tanks is stopped (closed).

Remove the strainer cap to access the screen (filter) for cleaning. The cap on the strainer should only be removed when the shutoff valve is closed.

**NOTE:** When the strainer cap is removed, some fluid from the pump will be present.

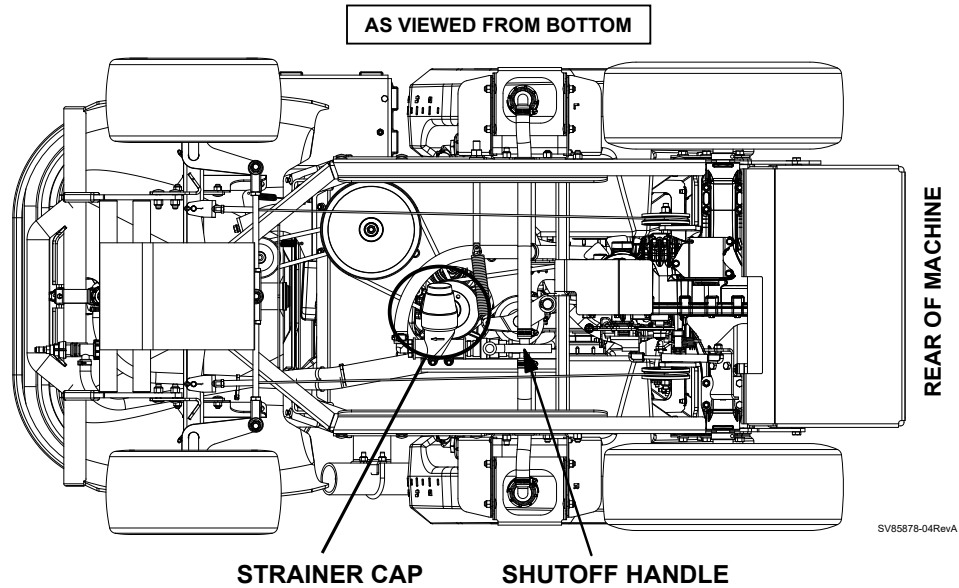


FIGURE 27

**ADJUSTING STEERING CABLES**  
(See Figure 28)

The steering cables can be adjusted to correct for wear and to take “slack” out of the steering wheel.

- Inspect the tie rods and tie rod ends.
- Check the front wheel bearings and the bearings where the front spindles go through the front axle beam.
- Check that cables are on steering cable pulleys at rear of machine.

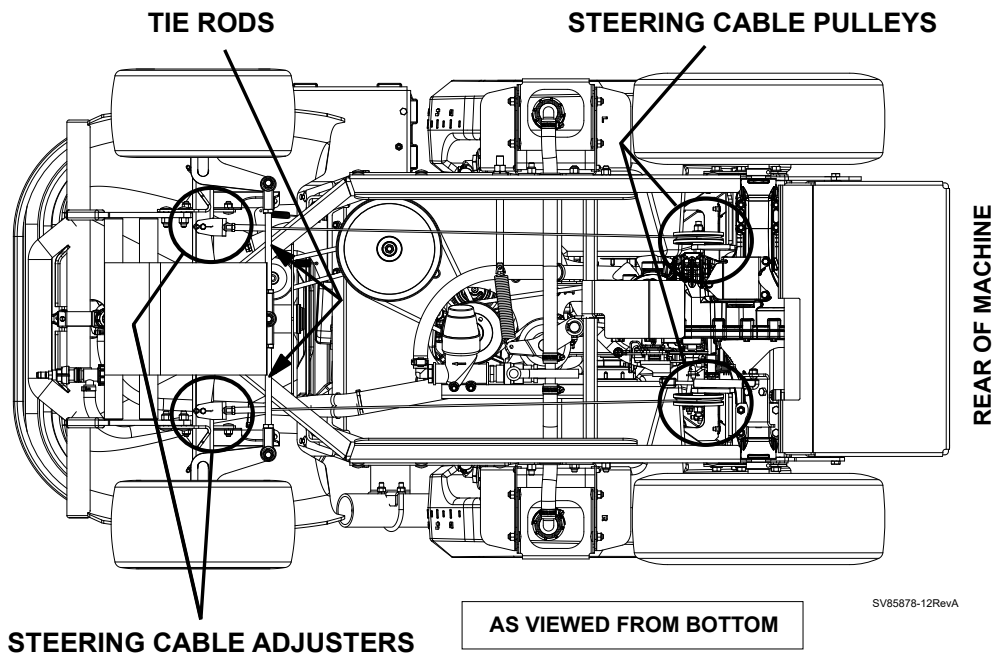
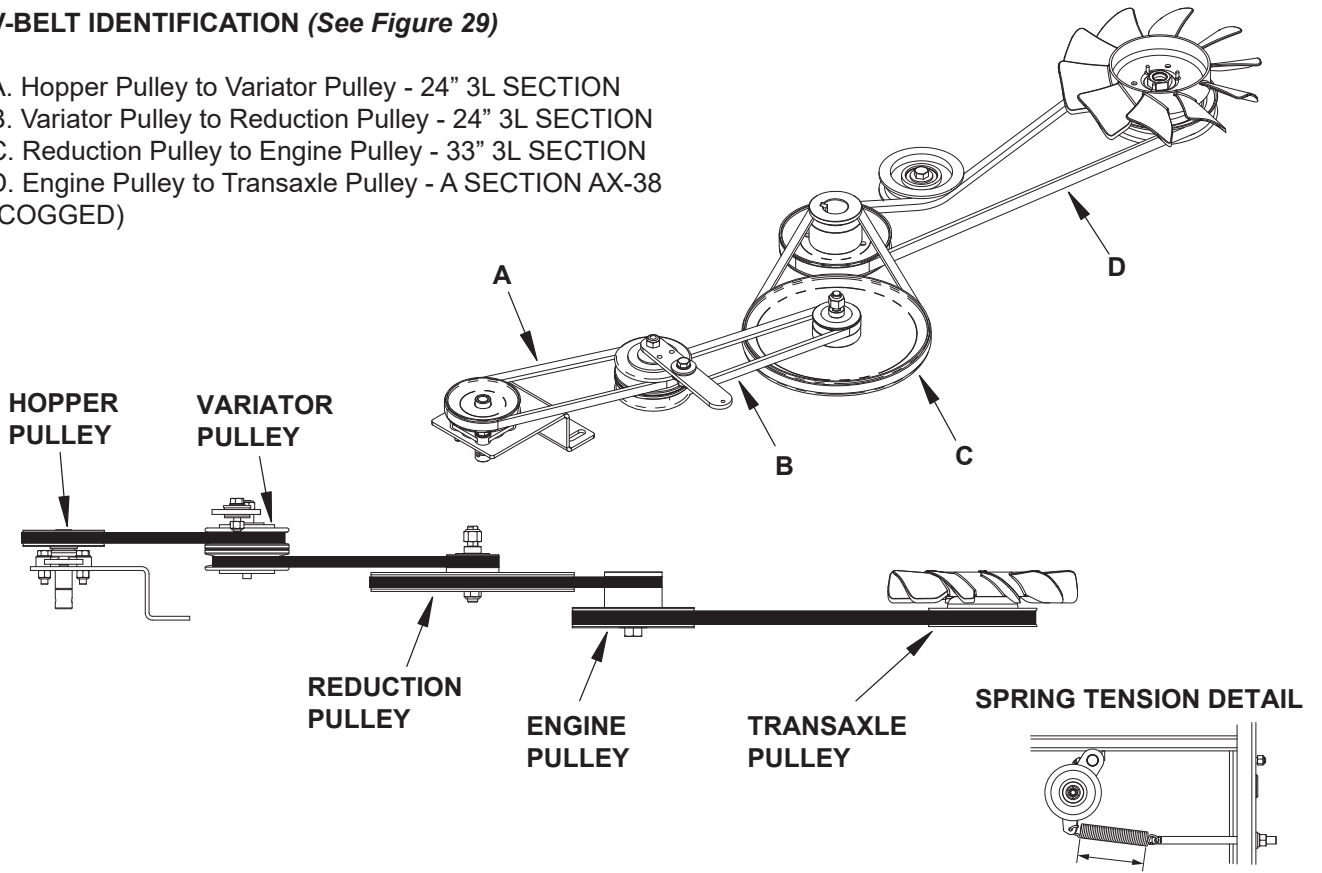


FIGURE 28

- Locate adjusters on cable ends near front axle. Loosen locking nuts on both cables. Adjust each side equally to keep the alignment equal and to avoid changing the steering wheel steering position. *Do not over tighten cables. Retighten lock nuts after adjusting.*

**V-BELT IDENTIFICATION (See Figure 29)**

- A. Hopper Pulley to Variator Pulley - 24" 3L SECTION
- B. Variator Pulley to Reduction Pulley - 24" 3L SECTION
- C. Reduction Pulley to Engine Pulley - 33" 3L SECTION
- D. Engine Pulley to Transaxle Pulley - A SECTION AX-38 (COGGED)

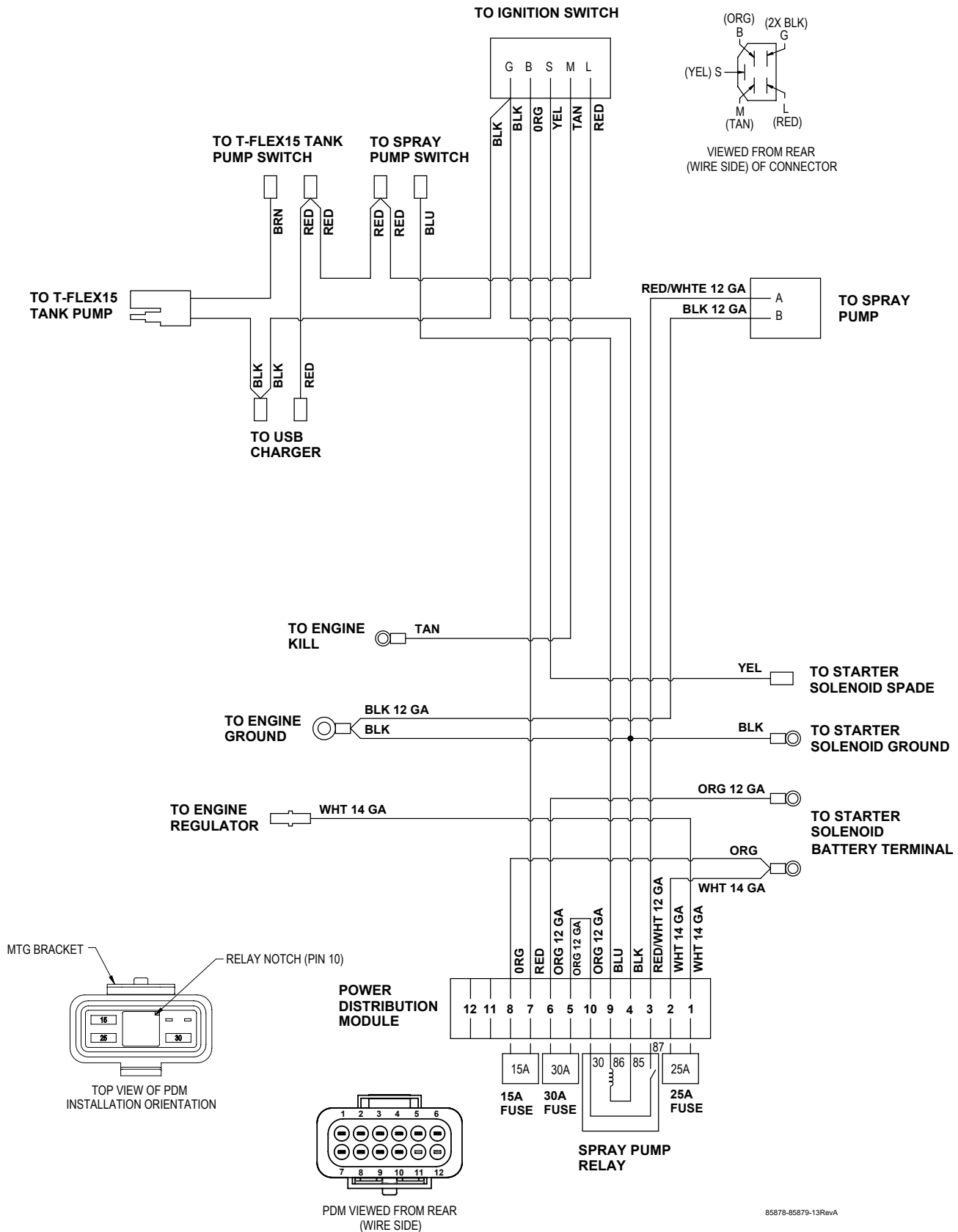


**FIGURE 29**

**TIGHTEN TENSIONER ROD  
UNTIL SPRING MEASURES 5-3/8"  
AS SHOWN WITH BELT INSTALLED.**

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ELECTRIC SYSTEM



85878-85879-13RevA

FIGURE 30

## Electrical Power Supply Connection

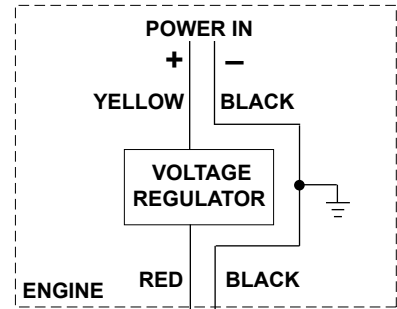


**DO NOT Use the Power Supply To Power Sensitive Electronic Equipment (Phones, Computers, Etc.). Power Levels, Power Fluctuation and Spikes Can Occur and Will Damage Sensitive Equipment.**

*For more information, contact your Briggs and Stratton servicing dealer. Refer to engine model 21R7770053G1 with electric start capability.*

If the engine fails to provide electrical current -

- Check all electrical connections. Look for corrosion or broken contacts in all connections.
- Check the ground wire at the engine. Wire is connected to the engine case next to the voltage regulator.
- Test for power directly at the voltage regulator. Readings can vary from 13.5 to 16 volts DC.



SV85872-14

**All Equipment or Devices Connected To The Electrical Power Supply Must Be Turfco Approved Equipment.**

### How To Obtain Parts and Service

Contact TURFCO to order parts or to arrange repair service. For a list of authorized TURFCO dealers in your area, or for additional information regarding TURFCO T3200 APPLICATOR, direct inquiries to TURFCO.

**TURFCO**

**1655 101<sup>st</sup> Avenue North East  
Minneapolis, MN. 55449-4420 USA**

**Telephone (763) 785-1000**

**FAX (763) 785-0556**

**E-Mail - [service@turfco.com](mailto:service@turfco.com)**

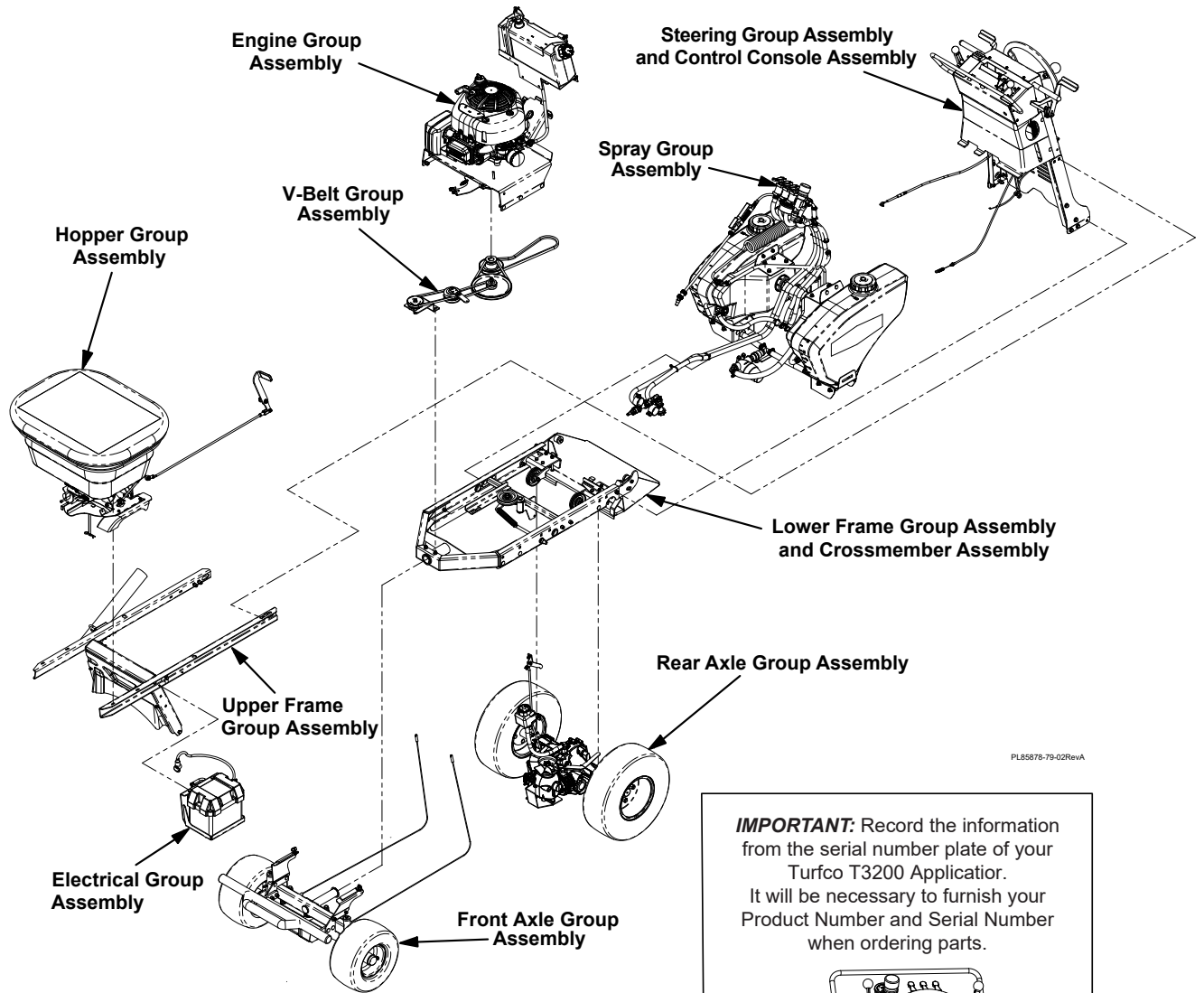
**Internet - [www.turfco.com](http://www.turfco.com)**

To ensure safety and proper operation, always purchase genuine TURFCO replacement parts from an authorized TURFCO dealer. Replacement parts from other sources may damage the TURFCO T3200 APPLICATOR and/or create a safety hazard. Always refer repairs to properly trained service personnel.

**DO NOT ALTER the TURFCO T3200 APPLICATOR in any manner.** Unauthorized alterations may affect its operation, performance, and may result in injury or death to the operator as well as other individuals in the work area. ***Unauthorized alterations will void the warranty.***

**DO NOT ADD** equipment or accessories not approved by Turfco Manufacturing. Unauthorized additions of unapproved equipment or accessories may affect its operation, performance, and may result in injury or death to the operator as well as other individuals in the work area. ***Unauthorized additions of unapproved equipment or accessories will void the warranty.***

Major Assembly Groups Parts Lists Breakdown



PL85878-79-02RevA

**IMPORTANT:** Record the information from the serial number plate of your Turfco T3200 Applicator. It will be necessary to furnish your Product Number and Serial Number when ordering parts.

TURFCO MFG., INC.  
 1655 101st Avenue NE  
 Minneapolis, Minnesota  
 USA 55449-4420 www.turfco.com  
 (763) 785-1000 FAX (763) 785-0556

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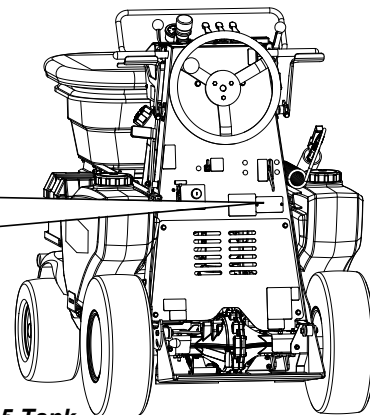
PRODUCT SERIAL

\_\_\_\_\_

PRODUCT NUMBER

SERIAL NUMBER

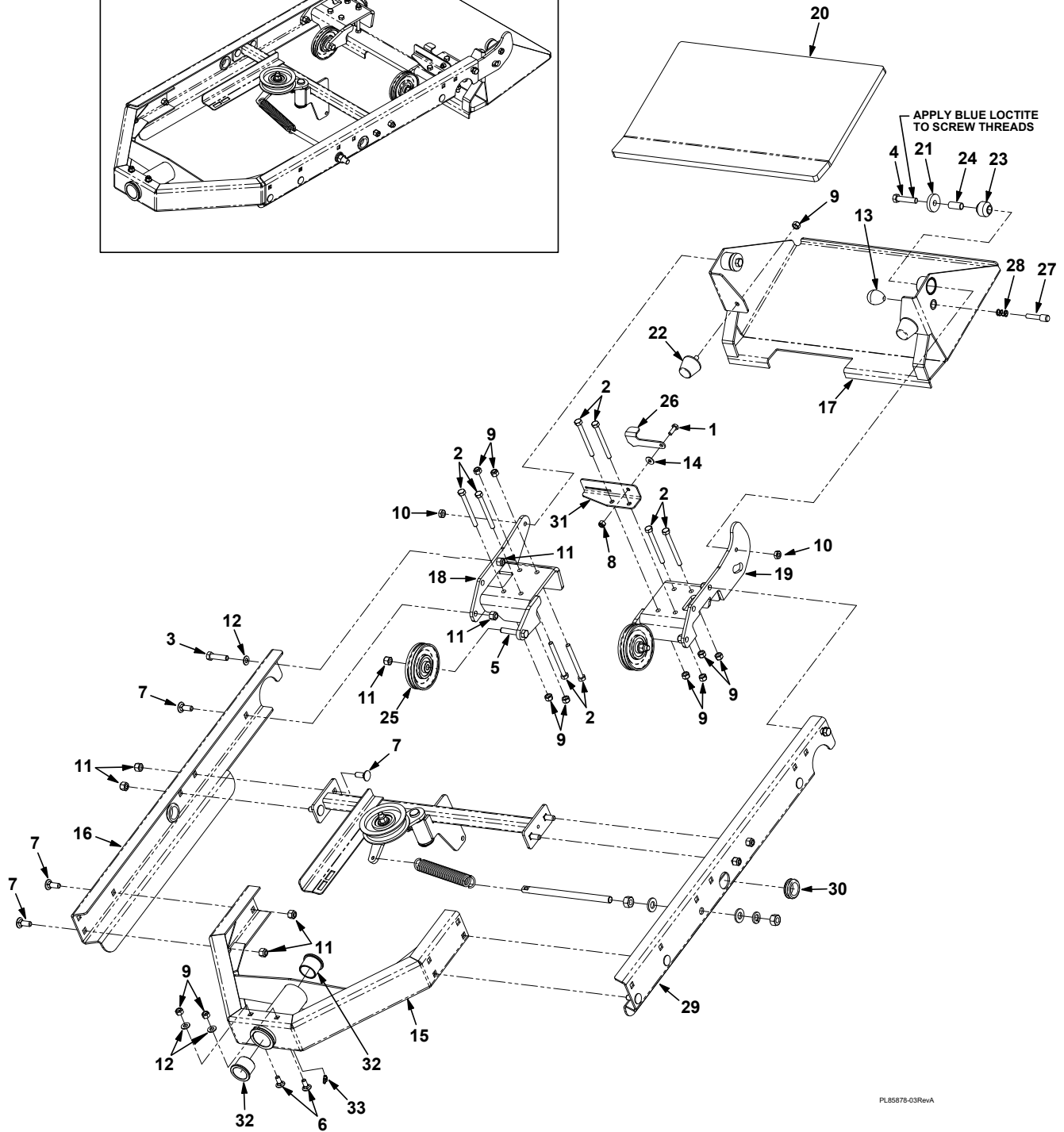
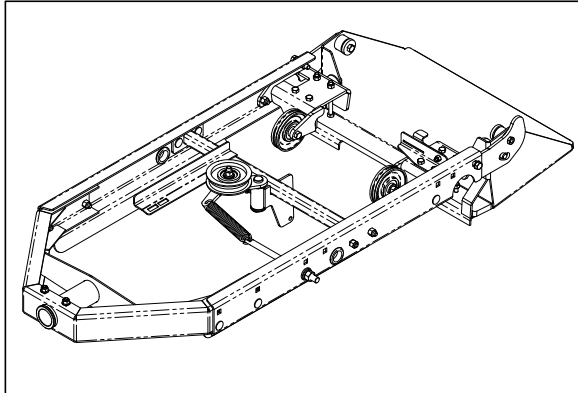
85878 - T3200 Applicator With Factory Installed T-Flex15 Tank  
 85879 - T3200 Applicator







Lower Frame Group Assembly

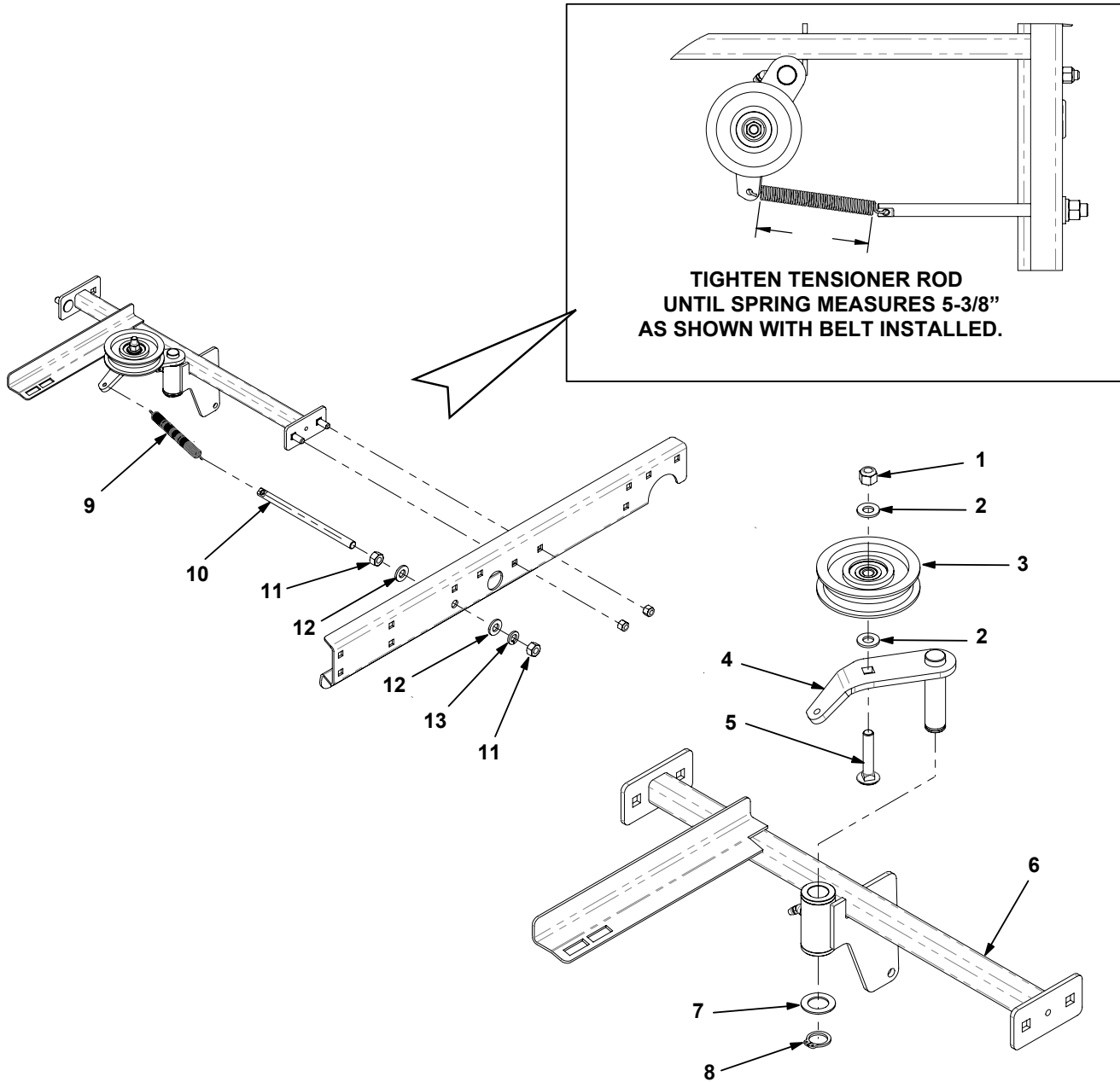


PL85878-03RevA

Lower Frame Group Assembly

Item No.	Part No.	Description	Qty.
1	300110	SCREW, CAP, 1/4-20 X .75, SS .....	1
2	300260	SCREW, CAP, 5/16-18 X 3-1/4, HEX HD, S.S. ....	8
3	300325	SCREW, CAP, 3/8-16 X 1.5, HEX HD, S.S.....	2
4	300330	SCREW, CAP, 3/8-16 X 1 3/4, HEX HD, S.S.....	2
5	300335	SCREW, CAP, 3/8-16 X 2, HEX HD, S.S.....	2
6	301211	BOLT, CARR, 5/16-18 X 3/4 SST .....	2
7	301315	BOLT, CARR, 3/8"-16 X 1", 304 SST .....	10
8	302110	NUT, HEX 1/4-20 NYLOCK, SST .....	1
9	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST .....	12
10	302305	NUT, JAM, 3/8-16, S.S.....	2
11	302310	NUT, NYLOC, 3/8-16, SST .....	14
12	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	4
13	665338	KNOB, SEED, GATE .....	1
14	667065	WASHER, FLAT, .260 ID X .69 OD X .060 THICK NYLON .....	1
15	667101	PIVOT FRAME ASSEMBLY, INCLUDES OILITE BUSHINGS AND GREASE ZERK .....	1
16	667107	CHANNEL, FRAME, RIGHT HAND SIDE .....	1
17	667109	WELDMENT, OPERATOR PLATFORM .....	1
18	667114	WELDMENT, AXLE MOUNT, RIGHT HAND .....	1
19	667115	WELDMENT, AXLE MOUNT, LH .....	1
20	667141	PAD, RUBBER.....	1
21	667147	SPACER, PLATFORM.....	2
22	667150	STOP, OPERATOR PLATFORM .....	2
23	667151	ISOLATOR, OPERATOR PLATFORM.....	2
24	667152	BUSHING, OPERATOR PLATFORM .....	2
25	667153	IDLER, STEERING CABLE .....	2
26	667345	PAWL, HYDRO BYPASS.....	1
27	670309	PIN, OPERATOR PLATFORM STOP .....	1
28	670310	SPRING, COMPRESSION, .416 ID, SST .....	1
29	672378	CHANNEL, FRAME, LH .....	1
30	672390	GROMMET, RUBBER, 1.00 ID.....	2
31	673055	GUIDE, FREEWHEEL LEVER .....	1
32	667106	FLANGE BEARING, OILITE.....	2
33	471215	LUBE FITTING, 1/4-28 X 45 DEG .....	1

Cross Member Assembly

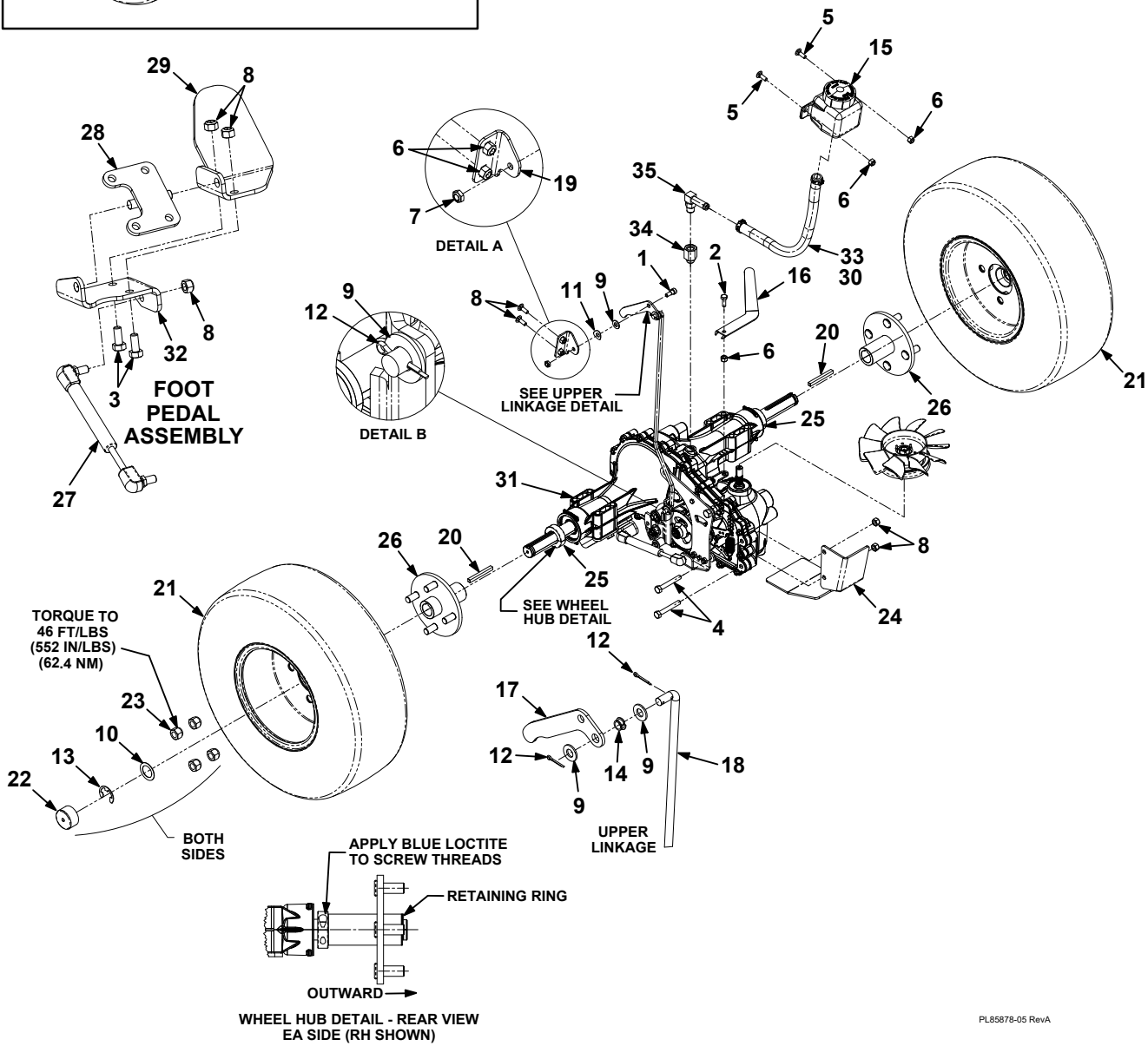
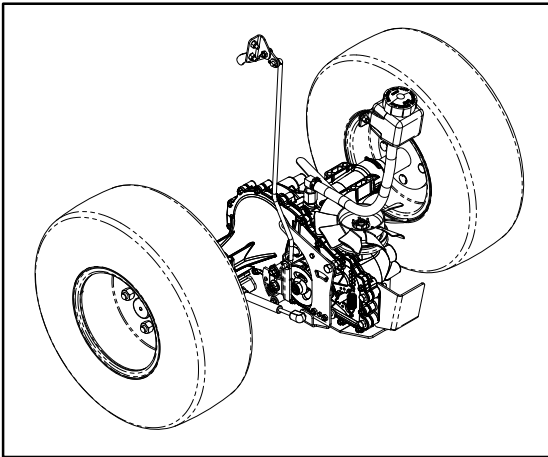


PL85878-33RevA

## Cross Member Assembly

Item No.	Part No.	Description	Qty.
1	302310	NUT, NYLOC, 3/8-16, SST .....	1
2	303040	WASHER, FLAT, .406 ID X .81 OD X .066 THICK SS.....	2
3	667138	PULLEY, FLAT IDLER WITH SPACER.....	1
4	672374	WELDMENT, IDLER ARM. ....	1
5	301325	BOLT, CARR, 3/8-16 X 2, SST .....	1
6	672370	ASSEMBLY, CROSSMEMBER, INCLUDES: .....	1
	471215	LUBE FITTING, 1/4-28, 45 DEG.....	1
	667403	FLANGE BEARING, .752 ID.....	2
7	303135	WASHER, THRUST .765 ID X 1.250 OD X .062 THICK .....	1
8	662628	RING, EXTERNAL RETAINING, .....	1
9	672377	SPRING, EXTENSION, .56 OD X 5.5 LG.....	1
10	671945	ROD, IDLER SPRING TENSIONER.....	1
11	302505	NUT, HEX, 1/2-13, FULL, SST.....	2
12	303080	WASHER, FLAT, .531 ID X 1.06 OD X .097 THK SST .....	2
13	303315	WASHER, LOCK, 1/2, SPRING, MEDIUM, SST .....	1

Rear Axle Group Assembly

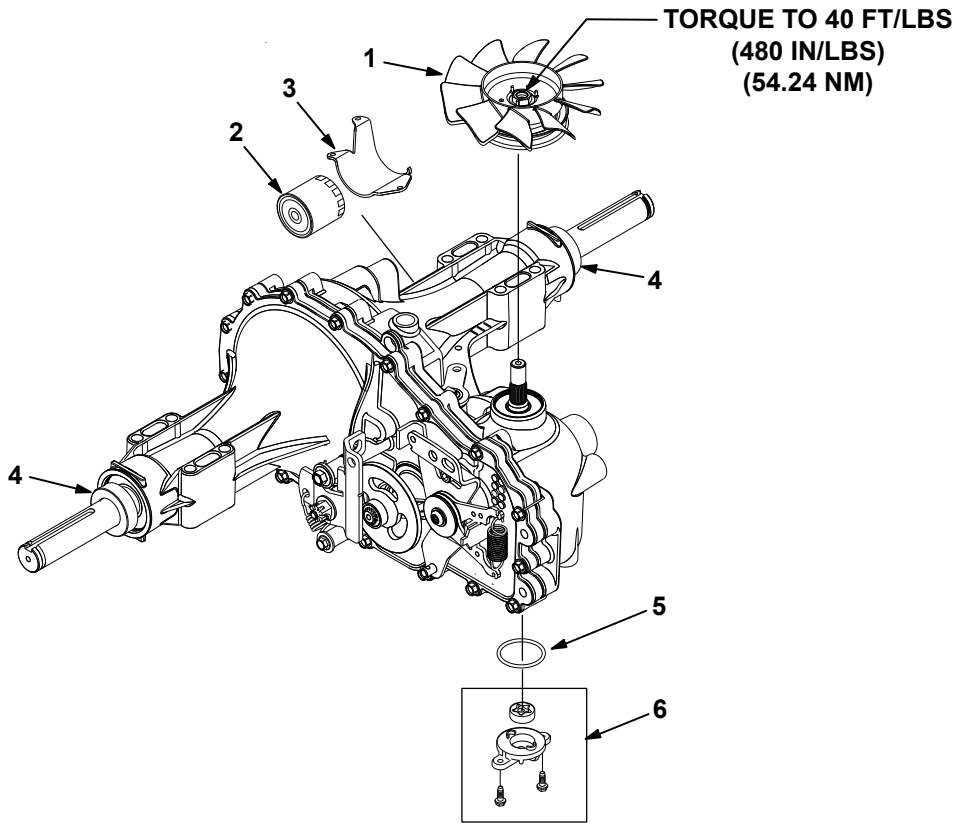


PL85878-05 RevA

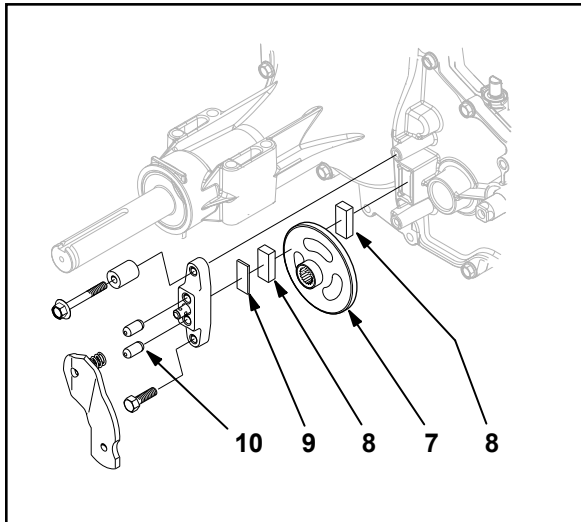
## Rear Axle Group Assembly

Item No.	Part No.	Description	Qty.
1	300101	BOLT, SHOULDER, 1/4"-20UNC-2A SS.....	1
2	300110	SCREW, CAP, 1/4-20 X .75, SS .....	1
3	300215	SCREW, CAP, 5/16-18 X 3/4 SS .....	2
4	300237	SCREW, CAP, 5/16-18 X 2-1/4, HEX HD, SST .....	2
5	301111	BOLT, CARR, 1/4-20 X 3/4, SST .....	4
6	302110	NUT, HEX 1/4-20 NYLOCK, SST.....	5
7	302115	NUT, HEX, 1/4-20, NYLOC, THIN, SST.....	1
8	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST.....	6
9	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	4
10	303155	SHIM, 1.0 ID X 1.5 OD X .031T, S.S.....	2
11	303225	WASHER, SPRING, .328 ID X .766 OD X .016 THICK.....	1
12	460014	PIN, COTTER, .3/32 X 3/4, PLT .....	3
13	667060	RING, RETAINING, E-TYPE, 1" .....	2
14	667140	BEARING, IGLIDE CLIP 5/16" I.D. ....	1
15	667204	ASSEMBLY, EXPANSION TANK .....	1
16	667209	ARM, HYDRO BYPASS.....	1
17	667213	HANDLE, BRAKE .....	1
18	667214	ROD, BRAKE LINKAGE .....	1
19	667215	BRACKET, BRAKE PIVOT .....	1
20	667225	KEY, SQ, 1/4 X 2-1/2 LG.....	2
21	667227	TIRE AND WHEEL, REAR ASSEMBLY.....	2
22	667231	CAP, AXLE.....	2
23	667239	NUT, LUG 1/2-20 UNF, COATED.....	8
24	667245	SKIDPLATE, TRANSMISSION .....	1
25	667246	COLLAR, SHAFT, CLAMP ON .....	2
26	667247	ASSEMBLY, REAR WHEEL HUB .....	2
27	668786	ASSEMBLY, GAS SPRING, SPEED CONTROL .....	1
28	669842	WELDMENT, HINGE .....	1
29	669846	PEDAL, SPEED LOCK .....	1
30	671750	CLAMP, PINCH, .70/.82 ID X .28 W, SST.....	2
31	672545	TRANSAXLE, T3100, PURCHASED .....	1
32	672548	LEVER, FOOT PEDAL.....	1
33	673049	HOSE, HYD, 1/2 X 16.....	1
34	673050	ADAPTER, 9/16-18 MALE O-RING X.....	1
35	673051	ELBOW, 9/16 M ORING X 1/2 HB, STEEL.....	1

Transaxle Service Parts

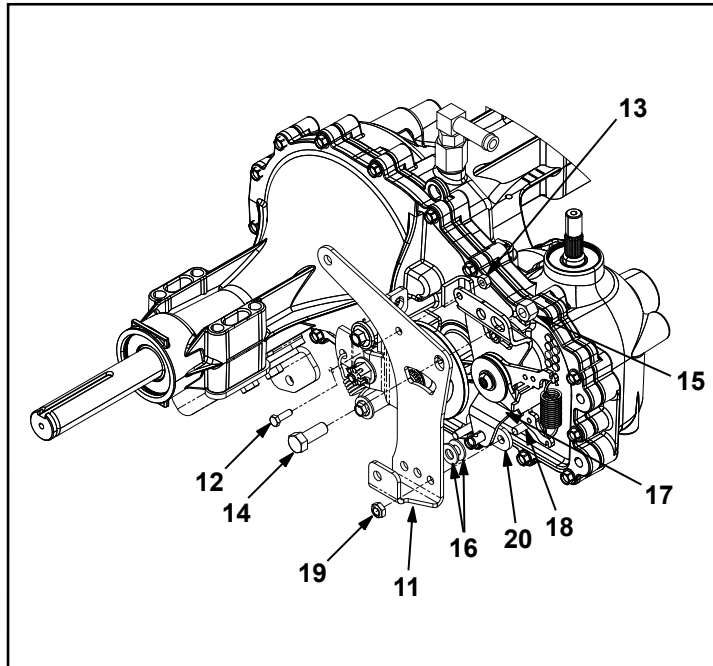


PARKING BRAKE SERVICE PARTS



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TRANSMISSION ARM

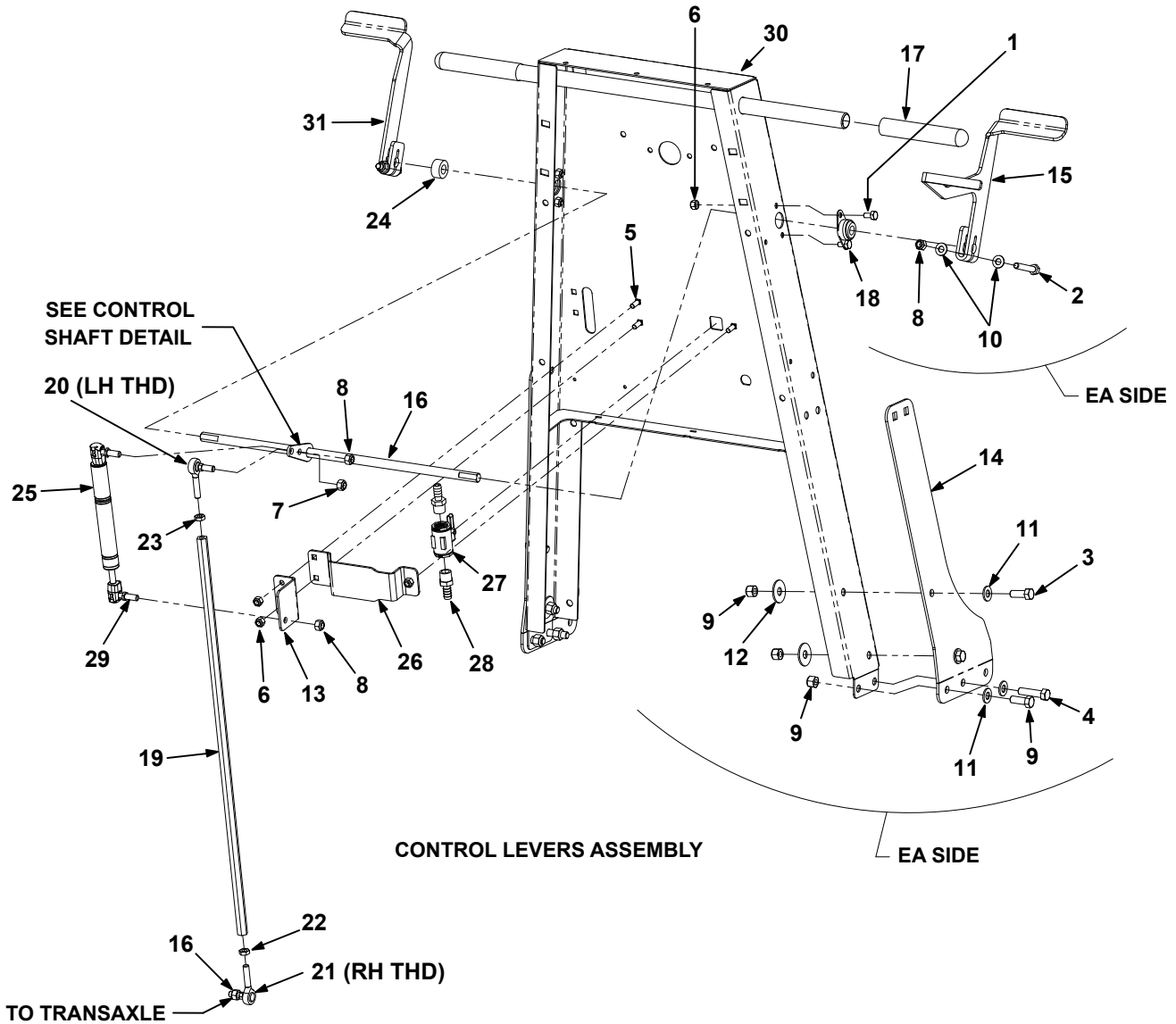
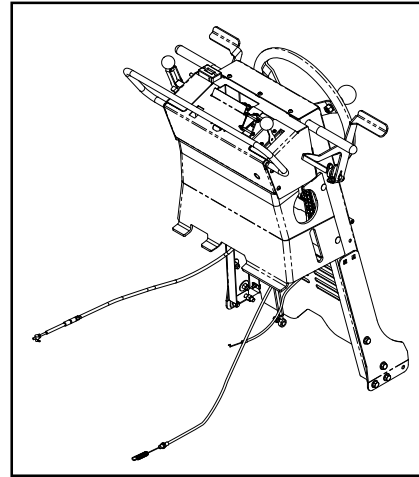
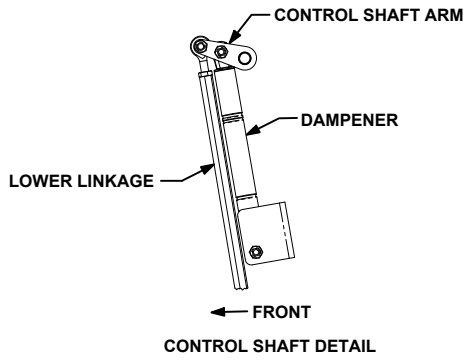


**Transaxle Service Parts**

Item No.	Part No.	Description	Qty.
1	672546	ASSEMBLY, FAN PULLEY KIT, 17 TOOTH SPLINE, INCLUDES NUT AND WASHER.....	1
2	667206	FILTER, TRANSAXLE .....	1
3	668807	GUARD, TRANSAXLE FILTER, METAL.....	1
4	668327	SEAL, AXLE SHAFT, TRANSAXLE.....	2
5	669236	O-RING, SEAL, 2.05" DIAMETER x 0.103" THICK .....	1
6	669459	CHARGE PUMP, INCLUDES ITEM 5 O-RING.....	1
<b><u>PARKING BRAKE SERVICE PARTS</u></b>			
7	667240	ROTOR, BRAKE.....	1
8	667241	PUCK (SHOE/PAD), BRAKE.....	2
9	667242	PLATE, BRAKE.....	1
10	667243	PIN, BRAKE.....	2
<b><u>TRANSAXLE ARM PARTS</u></b>			
11	672547	BRACKET, TRANSAXLE CONTROL.....	1
12	300056	SCREW, CAP, 10-24 X 5/8, HEX HD, SST.....	1
13	302055	NUT, HEX, #10-24 NYLOCK, STAINLESS STEEL.....	1
14	300310	SCREW, HEX HEAD, 3/8"-16 X 1" STAINLESS STEEL.....	1
15	302310	NUT, HEX, 3/8"-16 STAINLESS STEEL .....	1
16	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	2
17	668328	KIT, ARM, TRANSAXLE, NEUTRAL RETURN .....	1
18	300115	SCREW, CAP, 1/4-20 X 1, HEX HD, SST.....	2
19	302115	NUT, HEX, 1/4-20, NYLOC, THIN, SST.....	2
20	672631	PLATE, CLAMP .....	1



Control Console Group Assembly

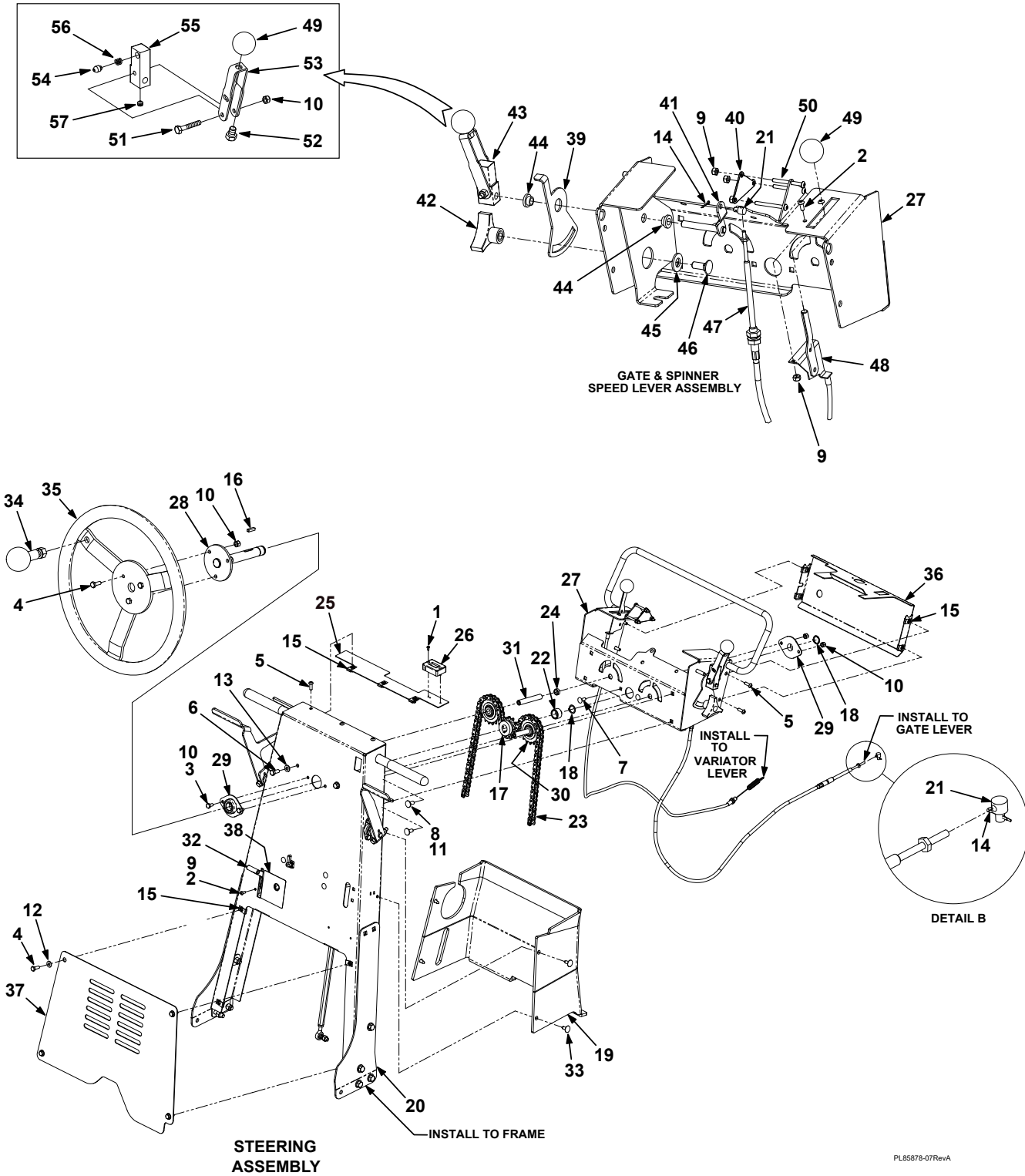


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## Control Console Group Assembly

Item No.	Part No.	Description	Qty.
1	300105	SCREW, CAP, 1/4-20 X 1/2, HEX HD, S.S.....	4
2	300235	SCREW, CAP, 5/16-18 X 2 SS .....	2
3	300310	SCREW, CAP, 3/8-16 X 1.00, HEX HD, S.S.....	2
4	300325	SCREW, CAP, 3/8-16 X 1.5, HEX HD, S.S.....	2
5	301111	BOLT, CARR, 1/4-20 X 3/4, SST .....	3
6	302110	NUT, HEX 1/4-20 NYLOCK, SST.....	7
7	302213	NUT, NYLOC, 5/16-24, SST .....	2
8	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST .....	4
9	302310	NUT, NYLOC, 3/8-16, SST .....	6
10	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	4
11	303040	WASHER, FLAT, .406 ID X .81 OD X .066 THICK SS.....	6
12	303060	WASHER, .4375 ID X 1.25 OD X .08T, S.S.....	4
13	667230	BRACKET, DAMPENER, LOWER.....	1
14	667305	GUSSET, CONTROL CONSOLE, LEFT HAND.....	1
15	667319	HANDLE, LH.....	1
16	667374	WELDMENT, HAND CONTROL SHAFT .....	1
17	667386	GRIP, HAND REST.....	2
18	667393	BEARING, FLANGE, 1/2 ID FLUSHMOUNT.....	2
19	668738	SHAFT, LOWER LINKAGE.....	1
20	668739	LINKAGE, BALL JOINT, 5/16-24, LH MALE SHANK.....	1
21	668743	LINKAGE, BALL JOINT, 5/16-24, RH MALE SHANK & STUD.....	1
22	668744	NUT, 5/16-24, JAM, RH THREAD.....	1
23	668751	NUT, 5/16-24, JAM, LH THREAD .....	1
24	668831	SPACER, 1.0 OD X .510 ID X .50 LG.....	1
25	670212	DAMPENER.....	1
26	670314	CLAMP, HOSE RETAINING .....	1
27	672020	VALVE, BALL, 3/8 FNPT.....	1
28	672156	ADAPTER, 3/8 MNPT X 3/8 HOSE BARB, .....	2
29	672334	BALL STUD, 10mm X 5/16-18 X 1-5/8 LG .....	2
30	673130	WELDMENT, CONSOLE .....	1
31	673178	HANDLE, SPEED CONTROL, RH .....	1

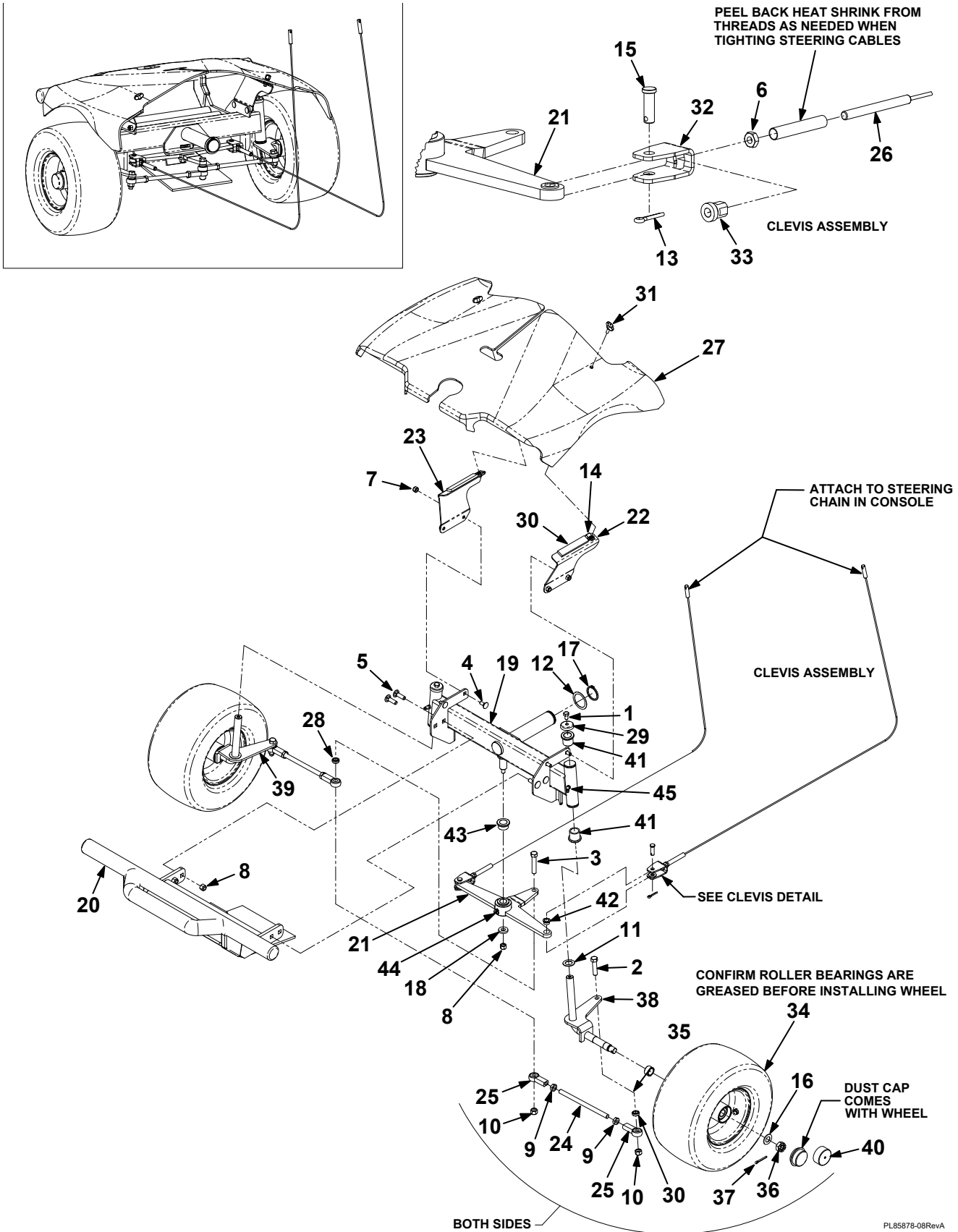
Steering Control Group Assembly



## Steering Control Group Assembly

Item No.	Part No.	Description	Qty.
1	300030	SCREW, PAN PHILLIPS, #6 X 3/8 SELF TAP - SS.....	2
2	300051	SCREW, BUTTON HD, 10-24 X 1/2, SST, HEX DRIVE .....	4
3	300105	SCREW, CAP, 1/4-20 X 1/2, HEX HD, S.S.....	2
4	300110	SCREW, CAP, 1/4-20 X .75, SS .....	7
5	300111	SCREW, BUTTON HD, 1/4-20 X 3/4, SST, HEX DRIVE .....	7
6	300215	SCREW, CAP, 5/16-18 X 3/4 SS .....	2
7	301111	BOLT, CARR, 1/4-20 X 3/4, SST .....	2
8	301211	BOLT, CARR, 5/16-18 X 3/4 SST .....	4
9	302055	NUT, NYLOC, 10-24, SST .....	7
10	302110	NUT, HEX 1/4-20 NYLOCK, SST.....	8
11	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST .....	4
12	303010	WASHER, FLAT, .281 ID X .63 OD, SST.....	4
13	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	2
14	673233	PIN, BOWTIE COTTER, .054 DIA .....	2
15	304014	NUT, 1/4 - 20 "U" TYPE (MULTI - THREAD).....	11
16	499496	KEY, SQUARE, 3/16" X 3/4 LONG .....	1
17	661181	SPROCKET, 40B12 X 3/4" BORE .....	1
18	667058	RING, RETAINING 0.693 ID, EXTERNAL .....	2
19	667302	FARING, CONSOLE .....	1
20	667304	GUSSET, CONTROL CONSOLE, RIGHT HAND .....	1
21	667327	SWIVEL, 10-32 THD, 1/4" PIN.....	2
22	667339	SPACER, DRIVE SPROCKET.....	1
23	667340	CHAIN, #40 ROLLER .....	1
24	667341	SPACER, IDLER SPROCKET .....	2
25	667349	PLATE .....	1
26	667350	HOURMETER.....	1
27	667364	WELDMENT, CONTROL SUPPORT .....	1
28	667371	WELDMENT, STEERING WHEEL SHAFT .....	1
29	667392	BEARING, FLANGE, 3/4 ID FLUSHMOUNT .....	2
30	667395	SPROCKET, IDLER, RC40 17 TOOTH .....	2
31	667396	SHAFT, IDLER SPROCKET .....	2
32	667399	CONTROL, THROTTLE .....	1
33	668635	PANEL FASTENER, PUSH IN, PLASTIC .....	4
34	672846	KNOB, STEERING WHEEL.....	1
35	672985	STEERING WHEEL.....	1
36	673105	COVER, FRONT DASH.....	1
37	673108	COVER, REAR CONSOLE.....	1
38	673180	DECAL, IGNITION, T3200.....	1
39	667342	STOP, PARTIAL GATE.....	1
40	667343	PLATE, CLAMP .....	1
41	667346	WELDMENT, GATE SHAFT .....	1
42	662516	KNOB, LOCKING.....	1
43	667377	ASSEMBLY, GATE HANDLE .....	1
44	667394	BEARING, FLANGE, 0.380 ID NYLON .....	2
45	660832	WASHER, FLAT, 1/2 SAE.....	1
46	301315	BOLT, CARR, 3/8"-16 X 1", 304 SST .....	1
47	667330	GATE CONTROL CABLE .....	1
48	667325	CONTROL CABLE, SPINNER SPEED .....	1
49	667338	KNOB, BALL, 3/8-24 UNF .....	2
50	300073	SCREW, BUTTON HD, 10-24 X 2, SST, HEX DRIVE .....	3
51	300125	SCREW, CAP, 1/4"-20 X 1-1/2", HEX HEAD, STAINLESS STEEL .....	1
52	300350	SCREW, CAP, 3/8"-24 X 1/2", HEX HEAD, STAINLESS STEEL.....	1
53	667380	CLEVIS, GATE HANDLE .....	1
54	667379	PLUNGER, DETENT .....	1
55	667378	ARM, HANDLE DETENT .....	1
56	667382	SPRING, DETENT.....	1
57	499120	SCREW, SET, 5/16"-24.....	1

Front Axle Group Assembly

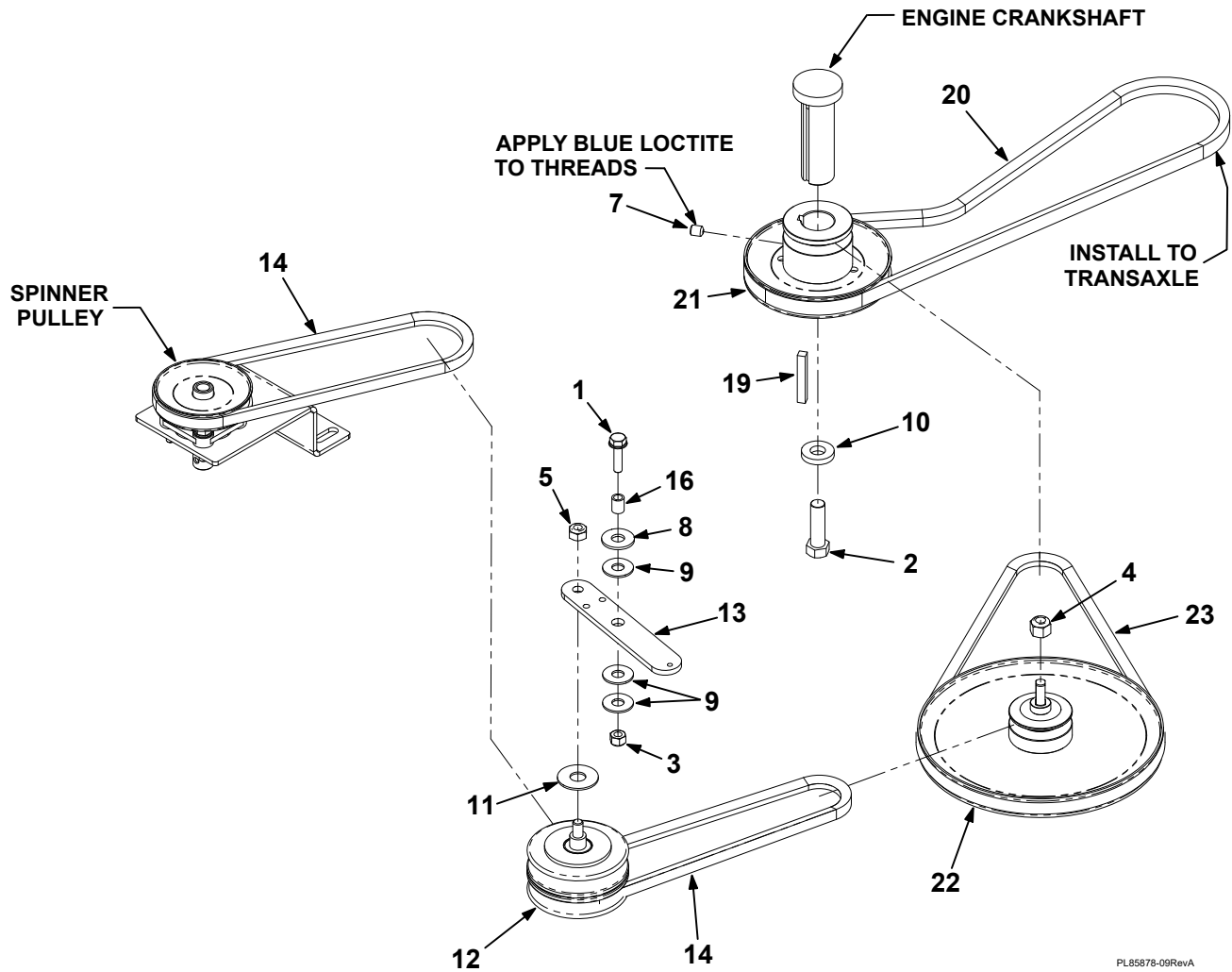
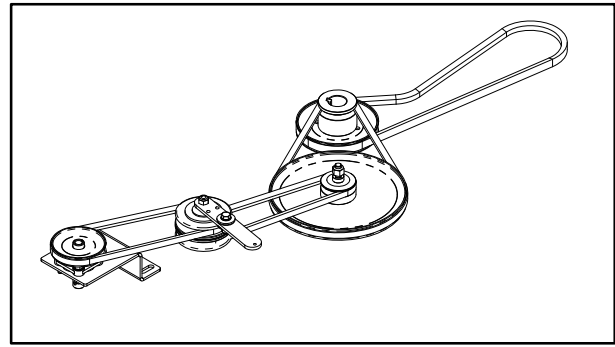
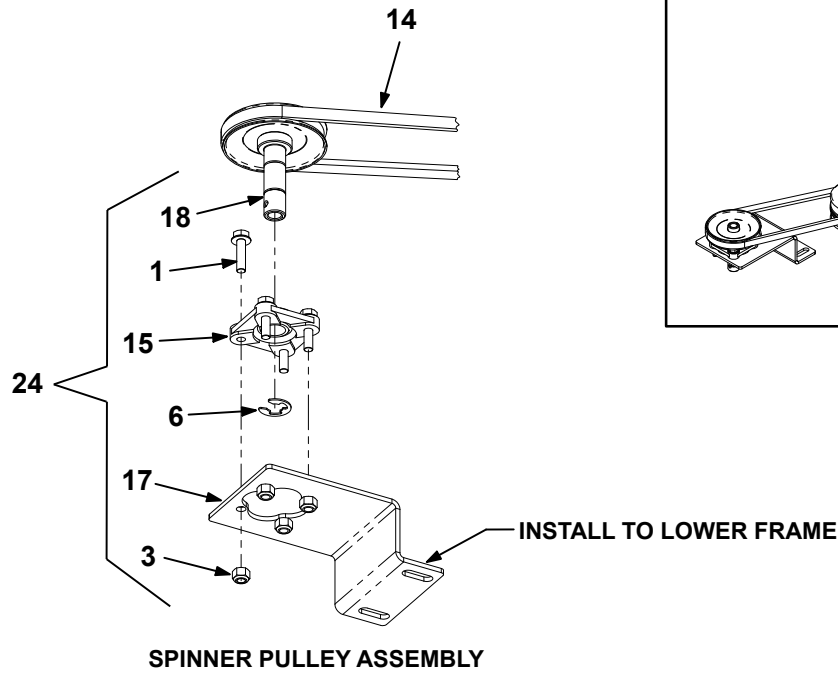


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## Front Axle Group Assembly

Item No.	Part No.	Description	Qty.
1	300205	SCREW, CAP, 5/16-18 X 1/2 SS .....	2
2	300435	SCREW, CAP, 7/16-14 X 1-3/4 SS .....	2
3	300440	SCREW, CAP, 7/16-14 X 2-1/4 SS .....	1
4	301211	BOLT, CARR, 5/16-18 X 3/4 SST .....	4
5	301317	BOLT, CARR, 3/8"-16 X 1 1/4 LG, 304 SST .....	4
6	302205	NUT, JAM, 5/16-18, S.S.....	2
7	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST .....	4
8	302310	NUT, NYLOC, 3/8-16, SST .....	5
9	302405	NUT, HEX, 7/16-20 JAM SS .....	4
10	302410	NUT, NYLOC, 7/16-14 UNC-2B, SST .....	3
11	303135	WASHER, THRUST .765 ID X 1.250 OD X .062 THICK .....	2
12	303175	WASHER, WAVE, 1.575 ID X 2.025 OD X .022 THICK.....	1
13	304010	PIN, COTTER SS, .75 X .125 .....	2
14	304014	NUT, 1/4 - 20 "U" TYPE (MULTI - THREAD).....	2
15	304045	PIN, CLEVIS 3/8 X 1-1/8 STAINLESS .....	2
16	499024	WASHER, (.641" X 1.188" X .062") .....	2
17	667062	RING, RETAINING, 1.50, HEAVY DUTY EXTERNAL .....	1
18	667077	WASHER, .469 ID X 1.00 OD X .19 THK, PLT .....	1
19	667402	ASSEMBLY, FRONT AXLE (INCLUDES OILITES AND GREASE ZERKS) .....	1
20	667418	WELDMENT, BUMPER .....	1
21	667424	ASSEMBLY, STEERING ARM (INCLUDES OILITES, PLASTIC BUSHINGS, AND GREASE ZERK).....	1
22	667432	BRACKET, HOOD SUPPORT, LEFT HAND .....	1
23	667433	BRACKET, HOOD SUPPORT, RIGHT HAND .....	1
24	667434	ROD, TIE .....	2
25	667437	BALL END, STEERING .....	4
26	667438	CABLE ASSEMBLY, STEERING .....	2
27	667440	GUARD, FRONT.....	1
28	667442	SPACER, BALL END, .75 X .48 X .25 .....	3
29	667443	COVER, SPINDLE.....	2
30	667450	SEAL, FOAM RUBBER, 4" LG .....	2
31	668633	SCREW, T-HANDLE, 1/4-20 X .80, SST .....	2
32	669849	CLEVIS, STEERING.....	2
33	669850	NUT, STEERING CABLE END .....	2
34	672870	WHEEL & TIRE, 4 PLY .....	2
35	672871	SPACER, FRONT WHEEL .....	2
36	672910	NUT, CASTLE, 5/8-18, PLT .....	2
37	672911	PIN, COTTER, 5/32 X 1-1/4, PLT .....	2
38	673127	WELDMENT, SPINDLE, LH.....	1
39	673128	WELDMENT, SPINDLE, RH .....	1
40	673215	CAP, VINYL, 2 ID X 1 LG, BLACK.....	2
41	667403	FLANGE BEARING, OILITE .....	4
42	667429	BEARING, FLANGED, IGLIDE, .37" ID X .5" OD X .63" OD FLANGE.2	2
43	670306	FLANGE BEARING, OILITE .....	2
44	471221	LUBE FITTING, 1/4-28, 90 DEG.....	1
45	471215	LUBE FITTING, 1/4-28, 45 DEG.....	2

V-Belt Group Assembly



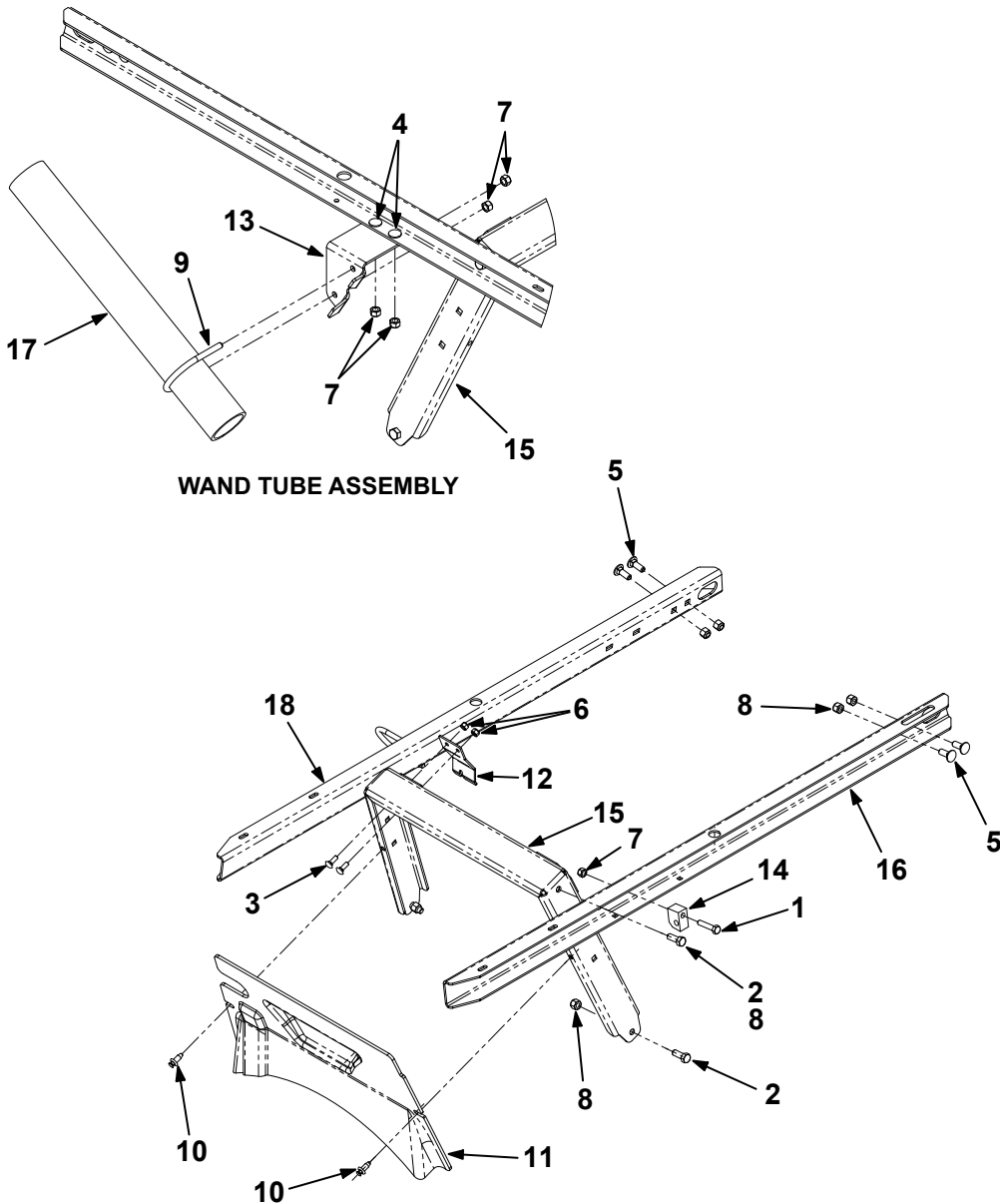
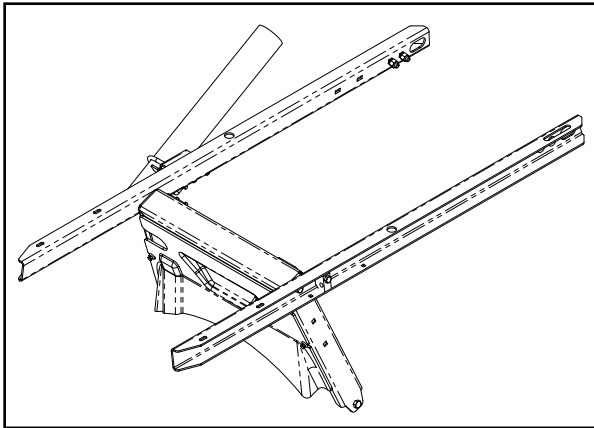
PL85878-09RevA

V-Belt Group Assembly

Item No.	Part No.	Description	Qty.
1	300117	SCREW, CAP, FLANGE, 1/4-20 X 1.0, SST.....	5
2	300433	SCREW, CAP, 7/16-20 X 1-1/2 SS.....	1
3	302110	NUT, HEX 1/4-20 NYLOCK, SST.....	5
4	302310	NUT, NYLOC, 3/8-16, SST.....	1
5	302905	NUT, NYLOC, M8-1.25 METRIC, SST.....	1
6	304050	RING, RETAINING, .485 ID, SST, E-TYPE.....	1
7	415519	SCREW, SET, 5/16-18 X 3/8.....	1
8	667073	WASHER, .4375 ID X 1.0 OD X .083T, PLT.....	1
9	667075	WASHER, .380 ID X .94 OD X .062 THICK.....	3
10	667077	WASHER, .469 ID X 1.00 OD X .19 THK, PLT.....	1
11	667527	WASHER, RUBBER, .490 ID X 1.25 OD X .065T.....	1
12	667530	PULLEY, VARIATOR.....	1
13	667532	LEVER, VARIATOR.....	1
14	667539	V-BELT, 3L SECTION, 24".....	2
15	667548	BEARING, FLANGE. 5/8 BORE.....	1
16	667551	SPACER, VARIATOR.....	1
17	667552	BRACKET, SPINNER PULLEY.....	1
18	667553	WELDMENT, SPREADER PULLEY.....	1
19	668885	KEY, SQ, 1/4 X 1 3/4.....	1
20	672368	V-BELT, AX-38.....	1
21	673063	WELDMENT, ENGINE PULLEY.....	1
22	673065	ASSEMBLY, REDUCTION PULLEY.....	1
23	673069	V-BELT, 3L330.....	1
24	667560	SERVICE KIT, BEARING, SPREADER PULLEY (INCLUDES ITEMS 1, 3, 6, 15, 17, 18 AND ONE 667752 SPINNER SHAFT WITH TWO 304055 AGITATOR HAIRPINS).....	1



Upper Frame Group Assembly

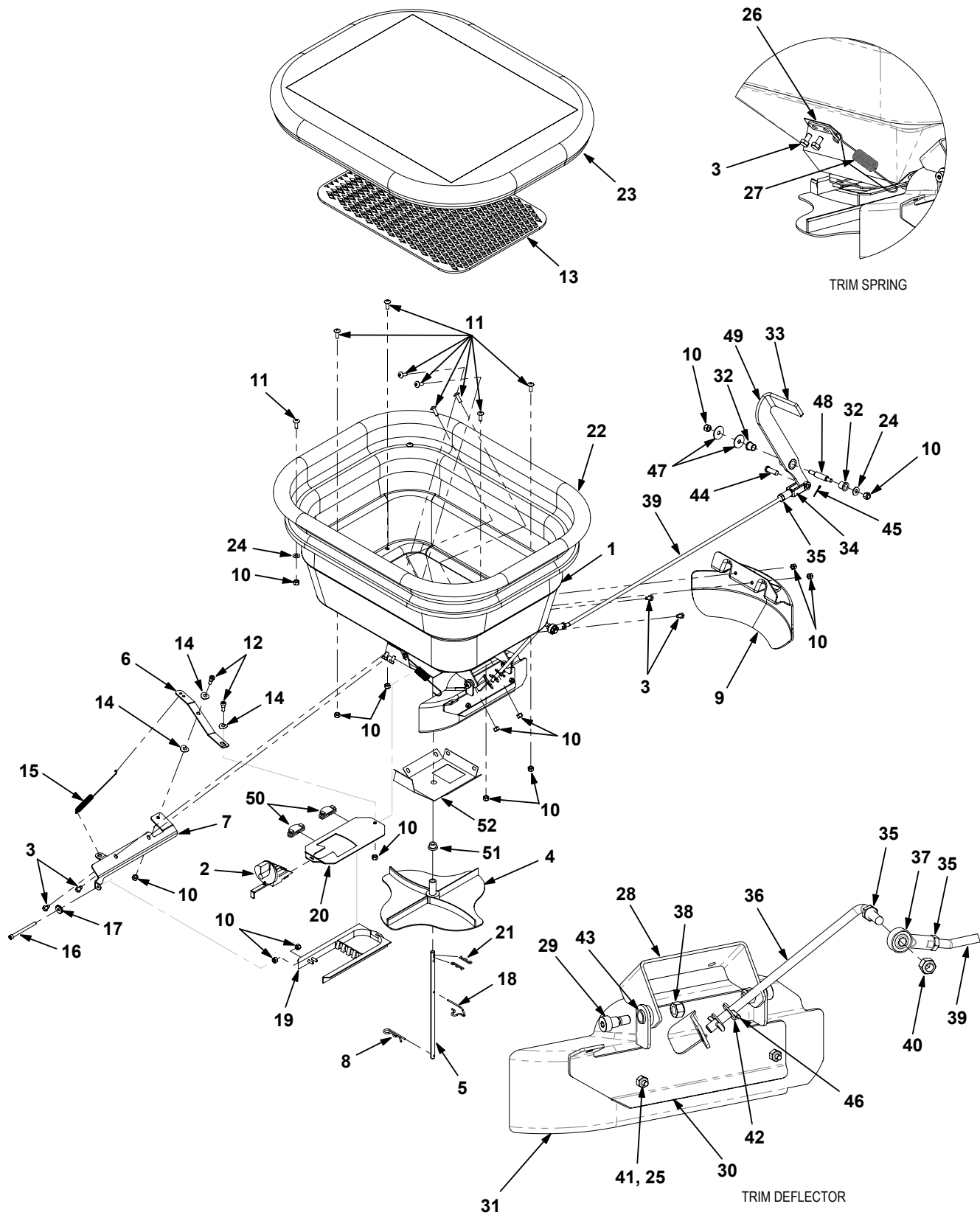


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Upper Frame Group Assembly

Item No.	Part No.	Description	Qty.
1	300225	SCREW, CAP, 5/16-18 X 1-1/2, HEX HD, SS.....	1
2	300310	SCREW, CAP, 3/8-16 X 1.00, HEX HD, S.S.....	4
3	301111	BOLT, CARR, 1/4-20 X 3/4, SST .....	2
4	301211	BOLT, CARR, 5/16-18 X 3/4 SST .....	2
5	301315	BOLT, CARR, 3/8"-16 X 1", 304 SST .....	4
6	302110	NUT, HEX 1/4-20 NYLOCK, SST.....	2
7	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST .....	5
8	302310	NUT, NYLOC, 3/8-16, SST .....	8
9	304056	U-BOLT, 5/16-18 X 2 1/2 IN ID, SST.....	1
10	667090	PUSH RIVET, TUFLOK HEAD, 5/16 OD .....	2
11	667632	SHIELD, ENGINE .....	1
12	667639	BRACKET, GATE CONTROL .....	1
13	669880	BRACKET, WAND HOLDER .....	1
14	670347	GUIDE, TRIM LINKAGE .....	1
15	672381	WELDMENT, SPREADER SUPPORT.....	1
16	672384	RAIL, SPREADER SUPPORT, LH.....	1
17	672787	TUBE, SPRAY WAND, 18" LG.....	1
18	673187	RAIL, SPREADER SUPPORT, RH.....	1

Hopper Group Assembly

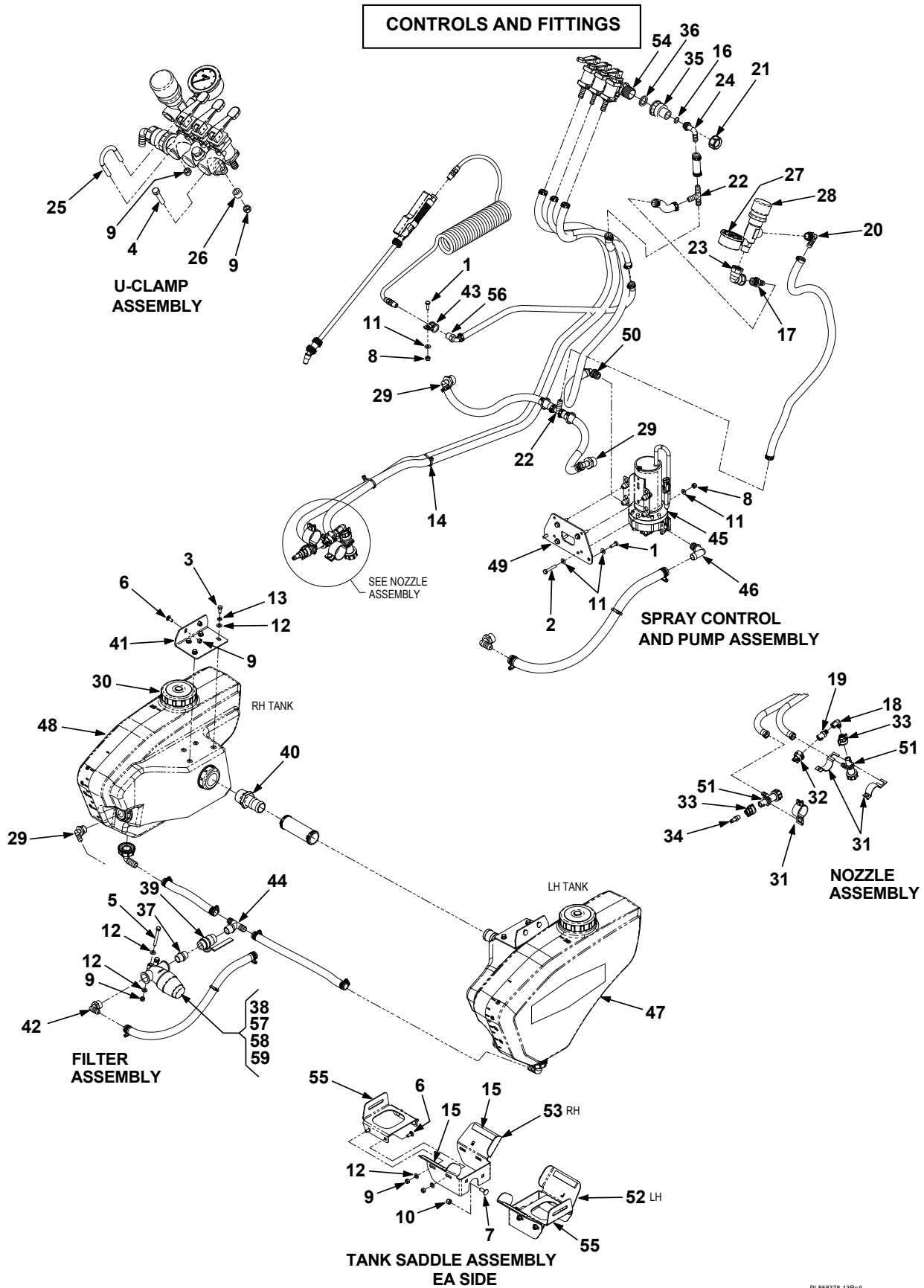


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Hopper Group Assembly

Item No.	Part No.	Description	Qty.
1	667706	HOPPER, SPREADER (HOPPER ONLY - NO OTHER PARTS INCLUDED) .....	1
2	667707	ASSEMBLY, DIAL .....	1
3	300105	SCREW, CAP, 1/4-20 X 1/2, HEX HD, S.S. ....	8
4	667749	SPINNER, WHEEL .....	1
5	667752	SHAFT, SPINNER .....	1
6	667726	LEVER, HOPPER GATE .....	1
7	667725	PLATE, ARM PIVOT .....	1
8	304020	PIN, HAIR .....	1
9	667740	SKIRT, SPINNER .....	1
10	302110	NUT, HEX 1/4-20 NYLOCK, SST .....	18
11	300112	SCREW, MACHINE, 1/4-20 X 3/4, PHILLIPS TRUSS HD, S.S. ....	12
12	300101	BOLT, SHOULDER, 1/4-20UNC-2A SS.....	2
13	667710	SCREEN, HOPPER .....	1
14	303225	WASHER, SPRING, .328 ID X .766 OD X .016 THICK.....	3
15	663387	SPRING, EXTENSION .....	1
16	300133	SCREW, CAP, SOCKET HD 1/4-20 X 3.00LG, SST .....	1
17	667741	THUMB NUT 1/4-20 .....	1
18	667747	CLIP, SPINNER .....	1
19	667719	ASSEMBLY, ACCUWAY .....	1
20	667713	RATE GATE, HOPPER.....	1
21	304055	PIN, HAIR, SST .....	2
22	669211	EXTENSION, HOPPER, 175 LBS.....	1
23	669248	COVER, RAIN, HOPPER EXTENSION .....	1
24	303010	WASHER, FLAT, .281 ID X .63 OD, SST .....	5
25	669691	SCREW, MACH, 10-24 X 5/8, SST, TRUSS HD PHILLIPS .....	2
26	670339	BRACKET, TRIM SPRING .....	1
27	655484	SPRING, EXTENSION .....	1
28	670338	BRACKET, TRIM HINGE .....	1
29	304057	BOLT, SHOULDER, 38 OD X .375 LG .....	2
30	670337	BRACKET, TRIM DEFLECTOR.....	1
31	669689	BORDER PATROL .....	1
32	667429	BEARING, FLANGED IGLIDE.....	2
33	673071	GRIP, HANDLE, 2.5 LG .....	1
34	670336	ROD END, YOKE, FEMALE, 5/16-24 .....	1
35	302210	NUT, 5/16-24, JAM, S.S .....	3
36	670340	LINKAGE, TRIM LEVER, SHORT .....	1
37	670335	ROD END, SPHERICAL, 5/16-24, SST .....	1
38	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST.....	2
39	670341	LINKAGE, TRIM LEVER .....	1
40	302213	NUT, NYLOC, 5/16-24, SST .....	1
41	302055	NUT, NYLOC, 10-24, SST .....	2
42	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS .....	2
43	667394	BEARING, FLANGE, 0.380 ID NYLON .....	2
44	670346	PIN, CLEVIS, 5/16 OD X 1.00 LG SST .....	1
45	673233	PIN, BOWTIE COTTER, .054 DIA.....	1
46	304010	PIN, COTTER SS, .75 X .125.....	2
47	303014	WASHER, FLAT, .281 ID X 1.00 OD X .057 THK, SST .....	2
48	672386	SHAFT, TRIM LEVER PIVOT .....	1
49	673070	WELDMENT, TRIM LEVER.....	1
50	667712	GUIDE, RATE GATE .....	4
51	667708	BEARING, PLASTIC, HOPPER BOTTOM.....	1
52	667711	PLATE, HOPPER BOTTOM.....	1

Spray Group Assembly



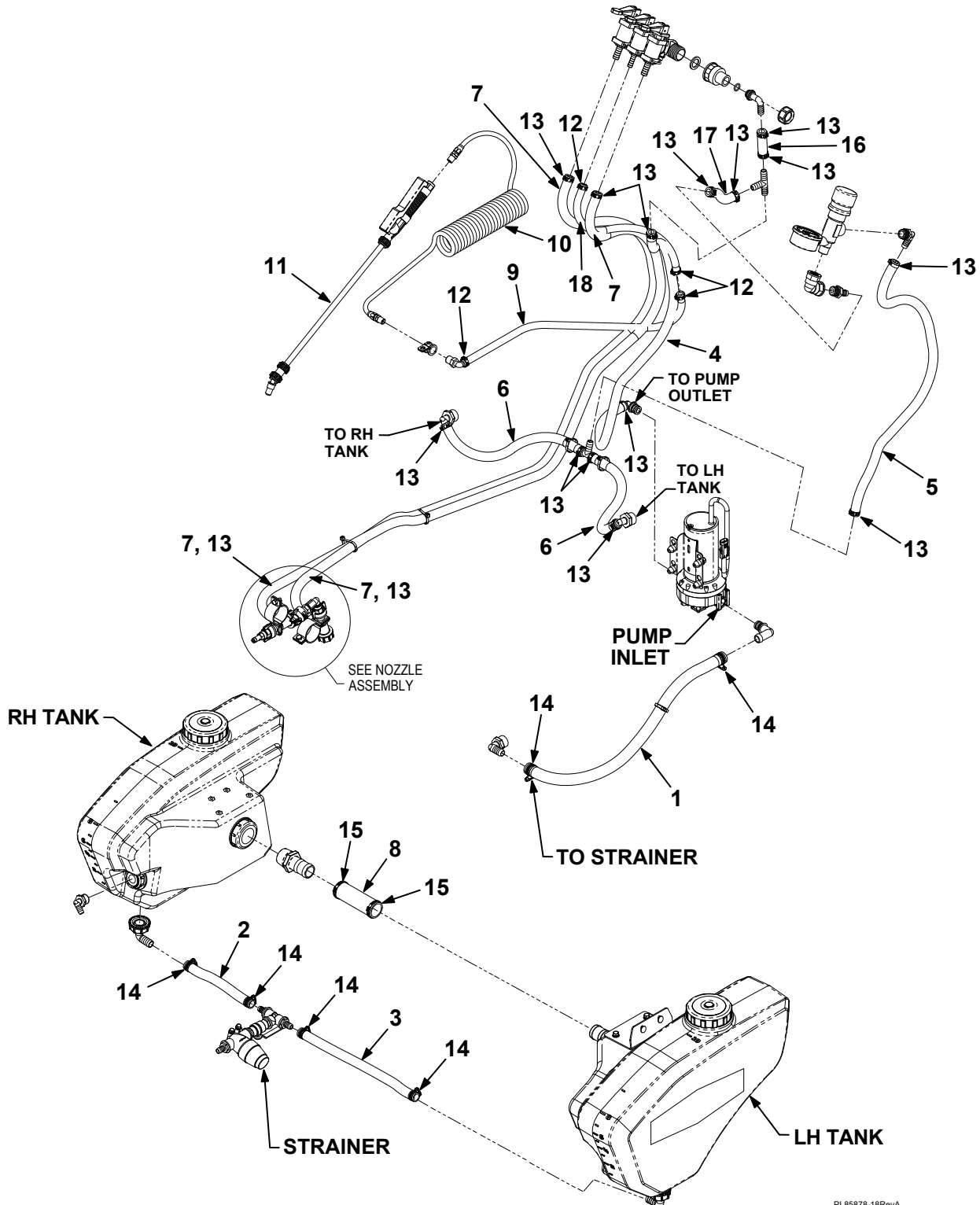
PL858378-13ReA

## Spray Group Assembly

Item No.	Part No.	Description	Qty.
1	300110	SCREW, CAP, 1/4-20 X .75, SS .....	3
2	300125	SCREW, CAP, 1/4-20 X 1-1/2, HEX HD, S.S.....	4
3	300215	SCREW, CAP, 5/16-18 X 3/4 SS .....	8
4	300225	SCREW, CAP, 5/16-18 X 1-1/2, HEX HD, SS.....	1
5	300255	SCREW, CAP, 5/16-18 X 3 HEX HEAD, SST.....	2
6	301211	BOLT, CARR, 5/16-18 X 3/4 SST .....	12
7	301315	BOLT, CARR, 3/8"-16 X 1", 304 SST.....	2
8	302110	NUT, HEX 1/4-20 NYLOCK, SST.....	5
9	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST .....	17
10	302310	NUT, NYLOC, 3/8-16, SST .....	2
11	303010	WASHER, FLAT, .281 ID X .63 OD, SST.....	11
12	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	20
13	303305	WASHER, LOCK, MEDIUM 5/16" SPRING, SS .....	8
14	658101	CABLE TIE, 3/16 X 8, BLACK.....	5
15	667450	SEAL, FOAM RUBBER, 4" LG .....	4
16	667543	O-RING .....	1
17	667826	ADAPTER, 1/2" HOSE BARB X 1/2 MNPT .....	1
18	667827	ELBOW, 90 DEG 1/4 MPT X 1/4 FPT.....	1
19	667828	ADAPTER, QUICK RELEASE.....	1
20	667831	ELBOW, 90 DEG, 1/2 HOSE BARB, 1/2 MNPT .....	1
21	667832	NUT, FLY, 3/4 FNPT.....	1
22	667833	TEE, HOSE BARB, 1/2 X 1/2 X 1/2 .....	2
23	667834	ELBOW, 90 DEG, 1/2 FPT X 1/2 FPT .....	1
24	667835	HOSE BARB, 90 DEGREE 1/2" HB X 3/4" FLYNUT .....	1
25	667837	U-BOLT, 5/16-18, PLT.....	1
26	667839	BUSHING, VALVE SPACER.....	1
27	667840	GAUGE, PRESSURE .....	1
28	667841	REGULATOR, PRESSURE .....	1
29	667843	ELBOW, 90 DEG, 3/4 MNPT X 1/2 HOSE BARB.....	2
30	667860	CAP, TANK.....	2
31	667862	CLAMP, NOZZLE BODY.....	2
32	667885	ASSEMBLY, NOZZLE, HF140-10, BLUE.....	1
33	667888	CAP, SPRAY TIP .....	2
34	667893	NOZZLE, TRIM, SPRAYER.....	1
35	667895	REDUCER, NIPPLE, 1 BSP FEMALE X 3/4 BSP MALE .....	1
36	667896	GASKET .....	1
37	668362	NIPPLE, 3/4 MALE NPT .....	1
38	668396	STRAINER, INLINE, 3/4 FNPT.....	1
39	668397	VALVE, 3/4 BALL .....	1
40	669857	ADAPTER, 1 1/2 MNPT X 1 1/2 BARB.....	2
41	669858	BRACKET, UPPER TANK.....	2
42	670832	ELBOW, 90 DEG, 3/4 MNPT X 3/4 HOSE BARB .....	1
43	672105	CLIP, P, 11/16 ID, CUSHIONED, SST.....	1
44	672391	TEE, 3/4 MNPT X 3/4 HB X 3/4 HB .....	1
45	672802	ASSEMBLY, PUMP, 5.3 GPM .....	1
46	672806	ELBOW, 90 DEG, 3/4 QA X 3/4 HB .....	1
47	673046	ASSEMBLY, LH TANK, 10 GAL .....	1
48	673047	ASSEMBLY, RH TANK, 10 GAL.....	1
49	673060	PLATE, PUMP MOUNT .....	1
50	673062	ELBOW, 90 DEG, 3/4 QA X 1/2 HB .....	1
51	673109	NOZZLE BODY, 1/2 HB.....	2
52	673112	SUPPORT, LH TANK, 10 GAL .....	1
53	673113	SUPPORT, RH TANK, 10 GAL .....	1
54	673133	ASSEMBLY, 3 VALVE MANIFOLD, 1/2" .....	1
55	673140	BRACKET, TANK RETAINER .....	2
56	673188	ELBOW, 1/4 FNPT X 3/8 HB .....	1
57	668364	SCREEN, INLINE FILTER, 50 MESH, SERVICE PART .....	1
58	668489	BOWL (CAP), STRAINER, INLINE FILTER, SERVICE PART .....	1
59	668490	GASKET, STRAINER, INLINE FILTER, SERVICE PART .....	1

Spray Group Hoses and Clamps

HOSES AND CLAMPS



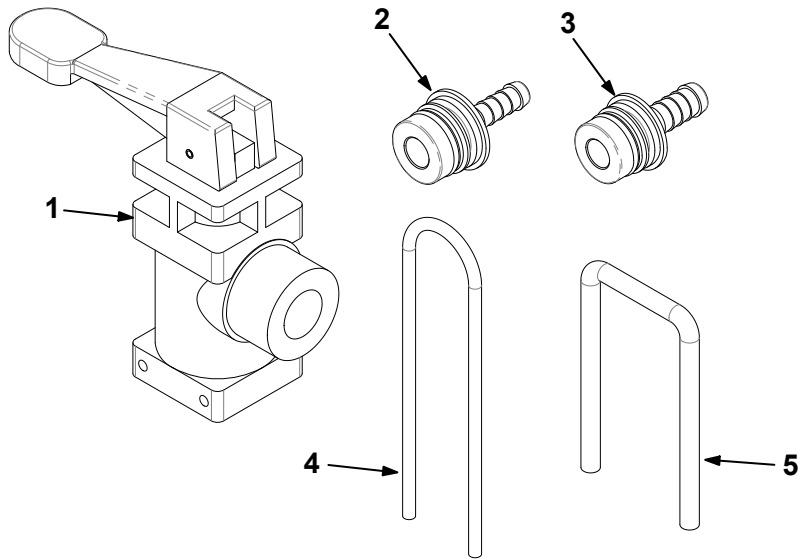
PL85878-18RevA

**Spray Group Hoses and Clamps**

Item No.	Part No.	Description	Qty.
1	673154	HOSE, SUCTION, 3/4 ID X 23.5 LG.....	1
2	673155	HOSE, SUCTION, 3/4 ID X 9.75 LG.....	1
3	673156	HOSE, SUCTION, 3/4 ID X 17.5 LG.....	1
4	673157	HOSE, SPRAY, 1/2 ID X 39 LG .....	1
5	673158	HOSE, SPRAY, 1/2 ID X 37 LG .....	1
6	673159	HOSE, SPRAY, 1/2 ID X 15 LG .....	2
7	673161	HOSE, SPRAY, 1/2 ID X 78 LG .....	2
8	673164	HOSE, PVC, 1 1/2 ID X 5.5 LG.....	1
9	673189	HOSE, SPRAY, 3/8 ID X 24.5 LG .....	1
10	673167	COIL HOSE, 1/4 X 15' LG.....	1
11	672794	SPRAY WAND, 15" EXTENSION .....	1
12	671749	CLAMP, PINCH, .61/.73 ID X .28 W, SST.....	4
13	671750	CLAMP, PINCH, .70/.82 ID X .28 W, SST.....	16
14	671751	CLAMP, HOSE, #10 WORM DR, .56/1.06 ID X .50 W, SST.....	6
15	671807	CLAMP, PINCH, 1.78/1.91 ID X .28 W, SST.....	2
16	672393	HOSE, SPRAY, 1/2 ID X 2.75 LG .....	1
17	672394	HOSE, SPRAY, 1/2 ID X 3.63 LG .....	1
18	672399	HOSE, SPRAY, 3/8 ID X 17.0 LG .....	1



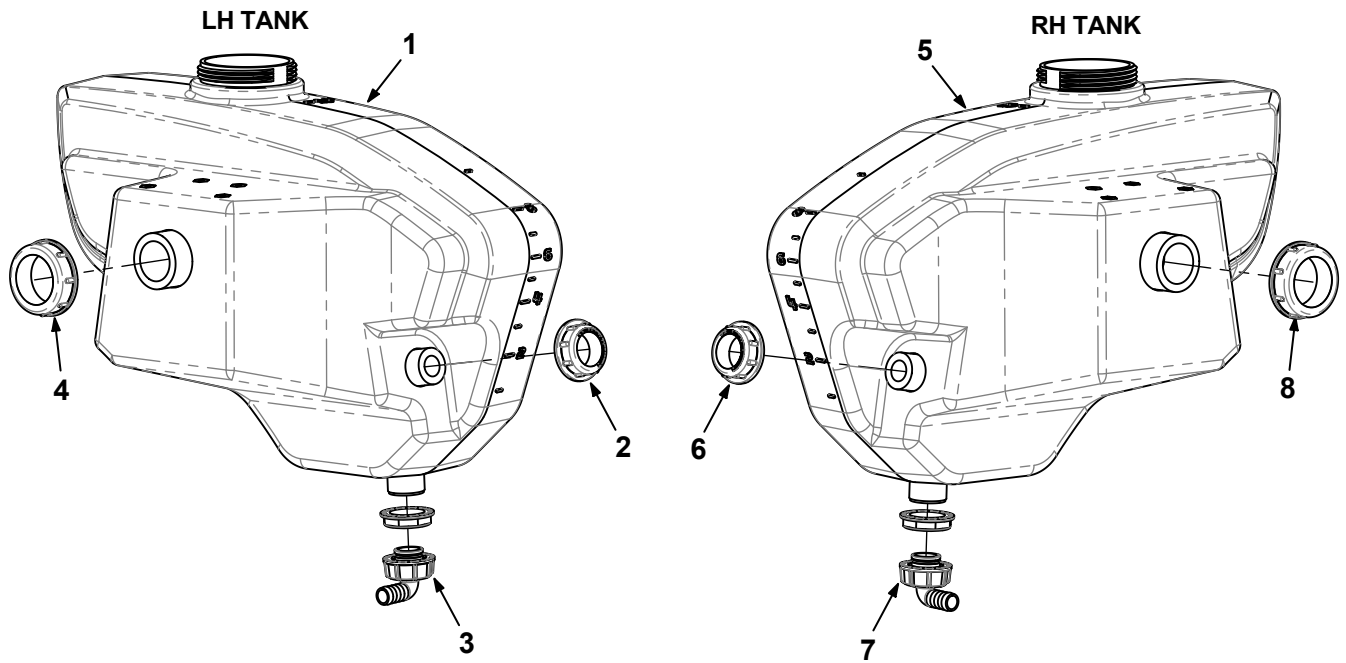
SPRAY MANIFOLD



SV85878-85879-41RevA

Item No.	Part No.	Description	Qty.
1	673135	VALVE, MANIFOLD .....	1
2	673138	HOSEBARB, MANIFOLD, 3/8" .....	1
3	673139	HOSEBARB, MANIFOLD, 1/2" .....	1
4	673136	FORK, TWO VALVES .....	1
5	673137	FORK, ONE VALVE .....	1

TANK ASSEMBLIES

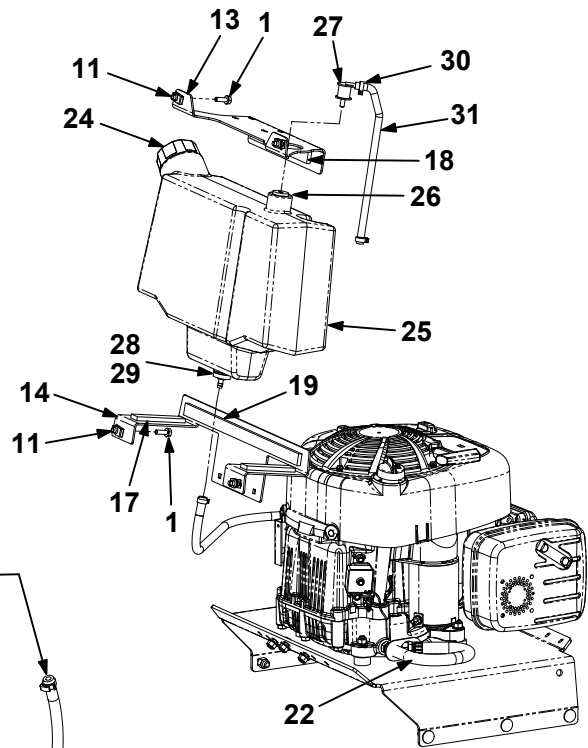
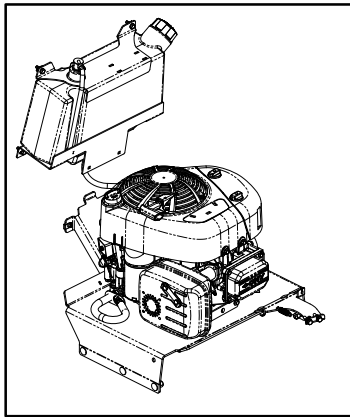


NOTE: RUBBER GASKET GOES ON INSIDE OF TANK FOR ALL BULKHEAD FITTINGS.

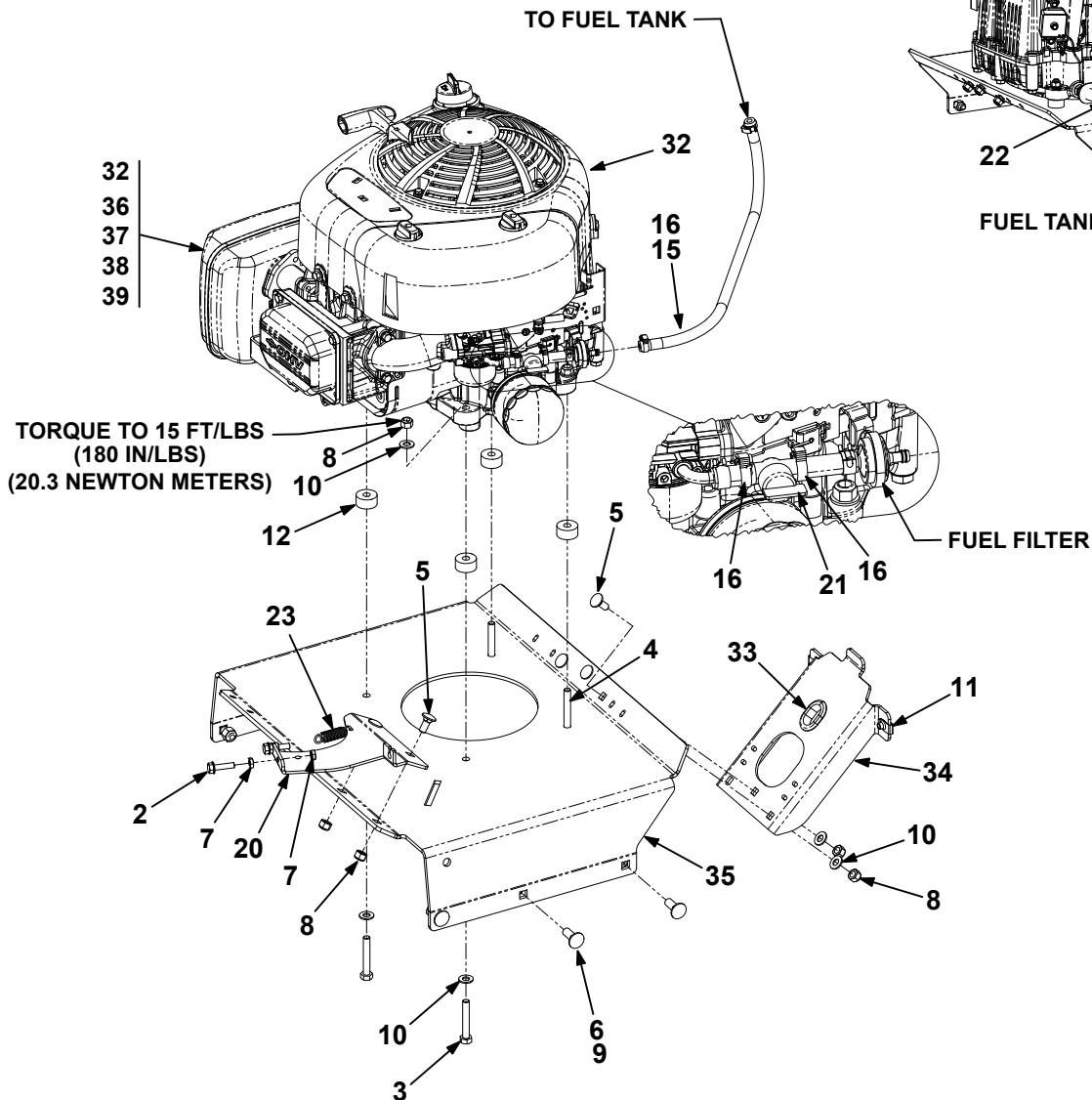
SV85878-85879-40RevA

Item No.	Part No.	Description	Qty.
1	673044	TANK, LH, 10 GAL. ....	1
2	667847	BULKHEAD FITTING, 3/4 NPT.....	1
3	673110	BULKHEAD FITTING, ANTI-VORTEX.....	1
4	673111	BULKHEAD FITTING, 1-1/2 FNPT .....	1
5	673045	TANK, RH, 10 GAL. ....	1
6	667847	BULKHEAD FITTING, 3/4 NPT.....	1
7	673110	BULKHEAD FITTING, ANTI-VORTEX.....	1
8	673111	BULKHEAD FITTING, 1-1/2 FNPT .....	1

Engine Group Assembly and Fuel Tank



FUEL TANK SUPPORT



PL85878-14RevA

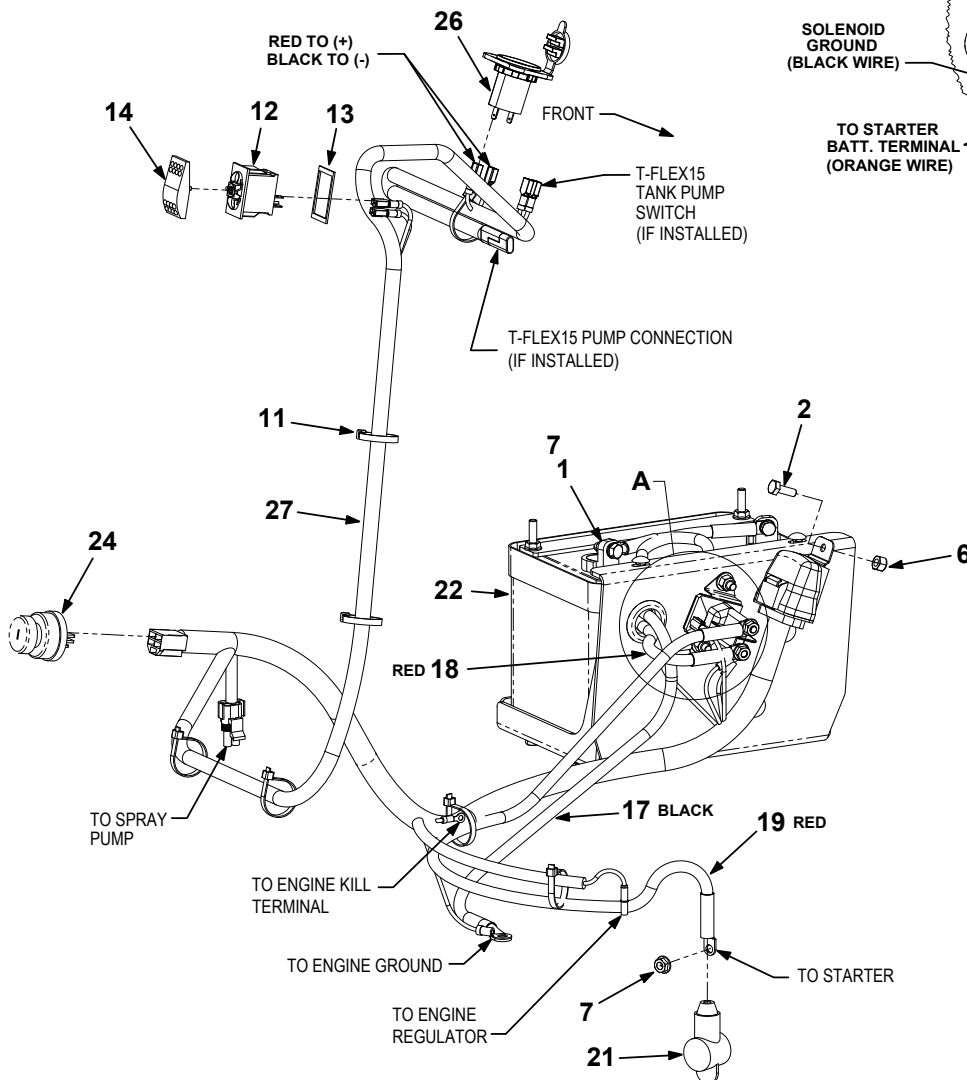
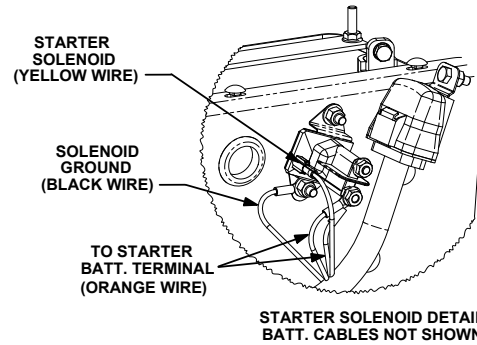
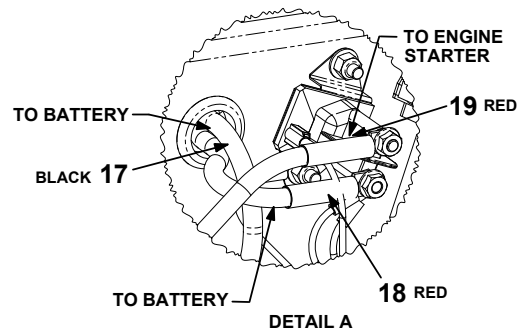
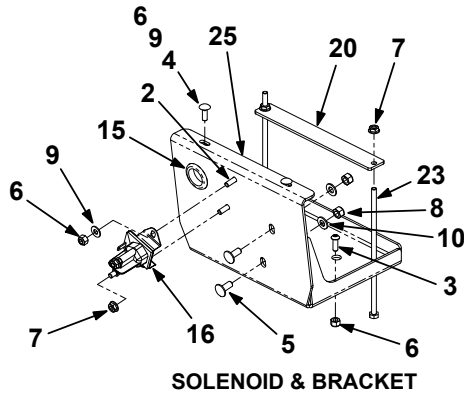
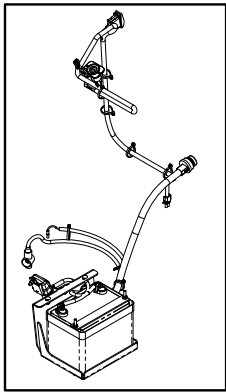
Engine Group Assembly and Fuel Tank

Item No.	Part No.	Description	Qty.
1	300107	SCREW, CAP, 1/4-20 X 3/4, FLANGE, S.S.....	4
2	300117	SCREW, CAP, FLANGE, 1/4-20 X 1.0, SST.....	2
3	300235	SCREW, CAP, 5/16-18 X 2 SS.....	3
4	300237	SCREW, CAP, 5/16-18 X 2-1/4, HEX HD, SST.....	1
5	301211	BOLT, CARR, 5/16-18 X 3/4 SST.....	5
6	301315	BOLT, CARR, 3/8"-16 X 1", 304 SST.....	6
7	302105	NUT, 1/4-20, JAM, S.S.....	4
8	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST.....	9
9	302310	NUT, NYLOC, 3/8-16, SST.....	6
10	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	11
11	304014	NUT, 1/4 - 20 "U" TYPE (MULTI - THREAD).....	6
12	667071	SPACER, 1.00 O.D. X .35 I.D. X .50 LG.....	4
13	667913	SUPPORT, FUEL TANK, TOP.....	1
14	673216	SUPPORT, FUEL TANK - BOTTOM.....	1
15	673231	HOSE, FUEL, 1/4 ID X 16 LG.....	1
16	667919	CLAMP, DOUBLE GRIP, SIZE D.....	4
17	667920	SEAL, FOAM RUBBER, 3.5" LG.....	2
18	667921	SEAL, FOAM RUBBER, 7.0" LG.....	1
19	667922	SEAL, FOAM RUBBER, 14.0" LG.....	1
20	673217	SUPPORT, VARIATOR PIVOT.....	1
21	673217	VALVE, FUEL SHUT OFF.....	1
22	667956	KIT, OIL DRAIN.....	1
23	668545	SPRING, EXTENSION.....	1
24	668592	CAP, FUEL.....	1
25	668597	TANK, FUEL, CLEAR PLASTIC, WITHOUT CAP, INCLUDES ITEMS 26,27, 28 & 29.....	1
26	668593	GROMMET, 1" OD.....	1
27	668594	VALVE, SLOSH.....	1
28	667928	GROMMET, FUEL TANK.....	1
29	673230	ELBOW, FUEL TANK.....	1
30	668765	CLAMP, DOUBLE GRIP, .362/.426 GRIP RANGE.....	2
31	673232	HOSE, FUEL, 3/16 ID X 34 LG.....	1
32	669778	ENGINE, 10.5 HP, B&S, INTEK AVS, 344cc.....	1
33	672390	GROMMET, RUBBER, 1.00 ID X 1.50 OD X .50 THK.....	1
34	673061	MOUNT, PUMP.....	1
35	673129	SUPPORT, ENGINE.....	1

ENGINE SERVICE PARTS

36	667954	FILTER, ENGINE OIL.....	1
37	667927	STARTER, RECOIL (REWIND).....	1
38	668532	FILTER, ENGINE, AIR CLEANER ELEMENT.....	1
39	669448	FILTER, FUEL.....	1

Electric Start Group



PL85878 87879-12RevA

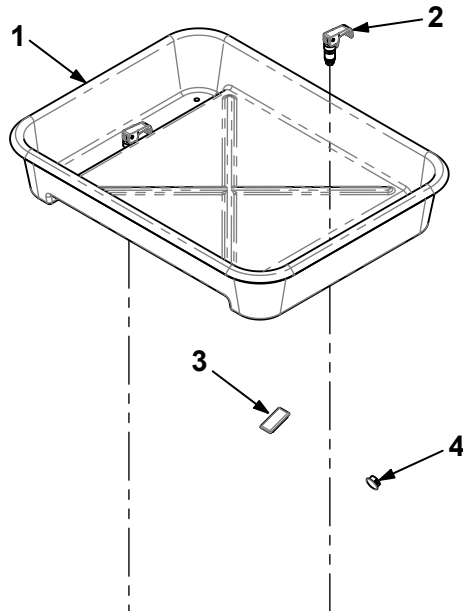
## Electric Start Group

Item No.	Part No.	Description	Qty.
1	300107	SCREW, CAP, 1/4-20 X 3/4, FLANGE, S.S.....	2
2	300110	SCREW, CAP, 1/4-20 X .75, SS .....	3
3	300111	SCREW, BUTTON HD, 1/4-20 X 3/4, SST, HEX DRIVE .....	2
4	301110	BOLT, CARRIAGE, 1/4-20 X 3/4 SHORT NECK .....	2
5	301210	BOLT, CARR, 5/16-18 X 3/4 SHORT NECK.....	2
6	302110	NUT, HEX 1/4-20 NYLOCK, SST.....	7
7	302120	NUT, HEX, 1/4-20 FLANGE, WHIZ-LOCK, SST .....	7
8	302215	NUT, NYLOC, 5/16-18 UNC-2B, SST .....	2
9	303010	WASHER, FLAT, .281 ID X .63 OD, SST.....	4
10	303020	WASHER, FLAT, .344 ID X .875 OD X .062 THICK SS.....	2
11	658101	CABLE TIE, 3/16 X 8, BLACK .....	7
12	658150	SWITCH, ROCKER BODY .....	1
13	658156	GASKET, ROCKER SWITCH .....	1
14	659966	SWITCH ROCKER, ACTUATOR, RED .....	1
15	662196	GROMMET, RUBBER, 1" ID.....	1
16	668259	SOLENOID, STARTER.....	1
17	668495	CABLE ASSEMBLY, BATTERY, BLACK 24" .....	1
18	668496	CABLE, ASSEMBLY, BATTERY, RED, 19" .....	1
19	668497	CABLE ASSEMBLY, BATTERY, RED, 44" .....	1
20	668501	BRACKET, BATTERY HOLDDOWN.....	1
21	668511	BOOT, RING, RED.....	1
22	668513	CONTAINER, BATTERY BOX .....	1
23	668552	SCREW, CAP 1/4-20 X 7-1/2.....	2
24	669706	SWITCH, IGNITION, 3 POSITION.....	1
25	669905	BRACKET, BATTERY BOX.....	1
26	673106	CHARGER, USB.....	1
27	673148	WIRING HARNESS, T3200 .....	1
28	673149	RELAY, SPST, ISO 280 ULTRA MICRO, 30A .....	1
29	673150	FUSE, 15 AMP, TYPE MINI, BLUE .....	1
30	673151	FUSE, 25 AMP, TYPE MINI, CLEAR .....	1
31	673152	FUSE, 30 AMP, TYPE MINI, GREEN .....	1

MODEL 85878- T-FLEX15 TANK FACTORY INSTALLED. SEE T-FLEX15 TANK MANUAL 672797 FOR T-FLEX15 OPERATING INSTRUCTIONS AND PARTS LIST.

MODEL 85879- NO T-FLEX15 TANK INSTALLED FROM FACTORY. SEE BELOW FOR TRAY PARTS LIST.

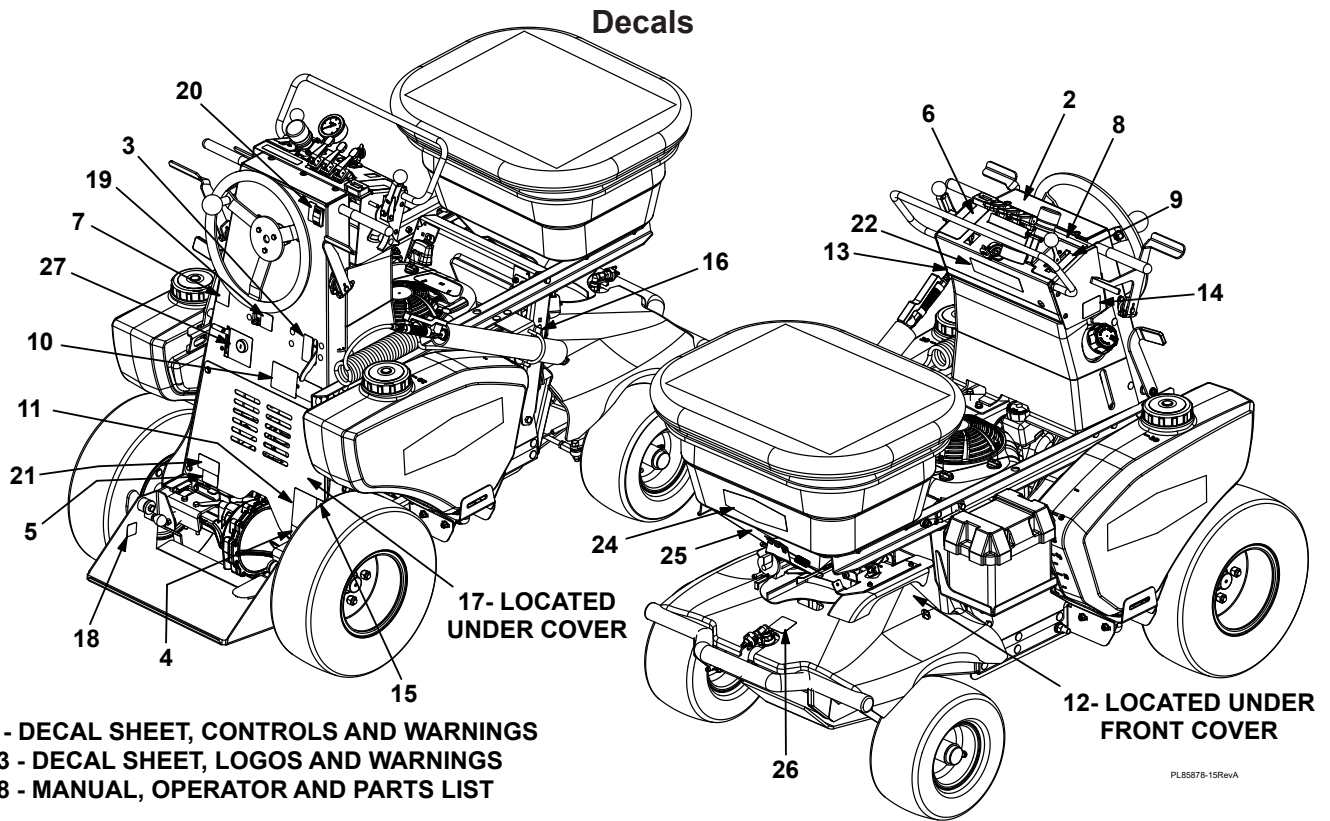
**Tray Parts**



SV85879-42RevA

**Tray Parts**

Item No.	Part No.	Description	Qty.
1	667631	STORAGE TRAY .....	1
2	667642	CAM LATCH, TRAY .....	2
3	668584	PLUG, PANEL.....	1
4	669840	PLUG, LOCKING, 3/4 ID, BLACK PLASTIC.....	1



1 - DECAL SHEET, CONTROLS AND WARNINGS  
 23 - DECAL SHEET, LOGOS AND WARNINGS  
 28 - MANUAL, OPERATOR AND PARTS LIST

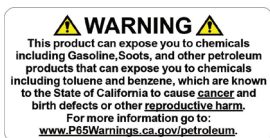
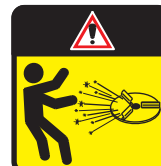
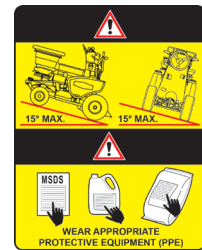
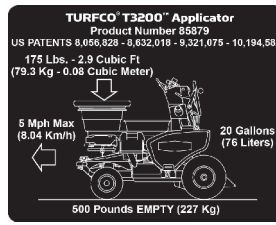
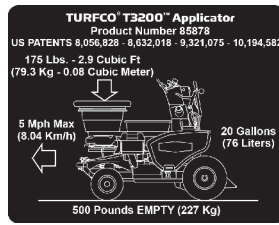
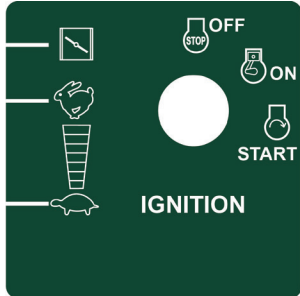
12- LOCATED UNDER FRONT COVER

PL85878-15RevA

Item No.	Part No.	Description	Qty.
1	673177	DECAL SHEET, PRODUCT ID AND WARNINGS, INCLUDES ITEMS 2 THRU 22.....	1
2		DECAL, DASHBOARD .....	1
3		DECAL, PARKING BRAKE .....	1
4		DECAL, FORWARD SPEED CONTROL PEDAL .....	1
5		DECAL, FREEWHEEL LOCK LEVER .....	1
6		DECAL, SPREADER GATE .....	1
7		DECAL, SPREADER TRIM CONTROL .....	1
8		DECAL, SPREADER SPEED AND SPRAY PRESSURE CONTROLS .....	1
9		DECAL, SPREADER SPEED WIDE/NARROW .....	1
10		DECAL, PRODUCT IDENTIFICATION (85878 OR 85879) .....	1
11		DECAL, MAXIMUM ANGLE OF OPERATION & PPE WARNING .....	1
12		DECAL, V-BELT HAZARD .....	1
13		DECAL, CONSOLE STRIPE .....	1
14		DECAL, FUEL LEVEL WARNING .....	1
15		DECAL, READ MANUAL WARNING .....	1
16		DECAL, HIGH HEAT HAZARD WARNING .....	1
17		DECAL, HAND HAZARD WARNINGS .....	2
18		DECAL, MAXIMUM OPERATOR WEIGHT WARNING .....	1
19		DECAL, SPRAY GUN FLOW CONTROL .....	1
20		DECAL, SPRAY PUMP ON/OFF .....	1
21		DECAL, CA, WARNING .....	1
22		DECAL, T3200 LOGO .....	1
23	673185	DECAL SHEET, LOGOS, T3200, INCLUDES ITEMS 24, 25 AND 26 .....	1
24		DECAL, TURFCO LOGO, 8-3/4" INCH .....	1
25		DECAL, HAND HAZARD WARNING TRIANGLE .....	1
26		DECAL, THROWN OBJECT WARNING .....	1
27	673180	DECAL, IGNITION .....	1
28	673182	MANUAL, OPERATOR AND PARTS LIST, 85878 & 85879 .....	1



Decals



**Decals**

- A. DASHBOARD DECAL
- B. THROTTLE CONTROL DECAL
- C. PARKING BRAKE LEVER DECAL
- D. GROUND SPEED LOCK PEDAL DECAL
- E. FREEWHEEL LOCK LEVER DECAL
- F. SPINNER SPEED & SPRAY  
PRESSURE DECAL
- G. SPINNER SPEED CONTROL DECAL
- H. SPREADER TRIM CONTROL DECAL
- I. SPRAY PUMP ON/OFF DECAL
- J. SPREADER GATE CONTROL DECAL
- K. SPRAY GUN FLOW VALVE DECAL
- L. 85878 PRODUCT IDENTIFICATION AND  
SPECIFICATION DECAL
- M. 85879 PRODUCT IDENTIFICATION AND  
SPECIFICATION DECAL

- N. MAXIMUM ANGLE OF OPERATION WARNING DECAL  
PERSONAL PROTECTION WARNING DECAL
- O. HAND HAZARD WARNING DECALS
- P. MAXIMUM OPERATOR WEIGHT WARNING DECAL
- Q. READ MANUAL WARNING DECAL
- R. HIGH HEAT WARNING DECAL
- S. SPINNER WHEEL HAND HAZARD DECAL
- T. THROWN HAZARD WARNING DECAL
- U. FUEL TANK LEVEL WARNING DECAL
- V. PRODUCT WARNING DECAL
- W. T3200 DECAL
- X. TURFCO LOGO DECAL
- Y. CONSOLE STRIPE DECAL



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