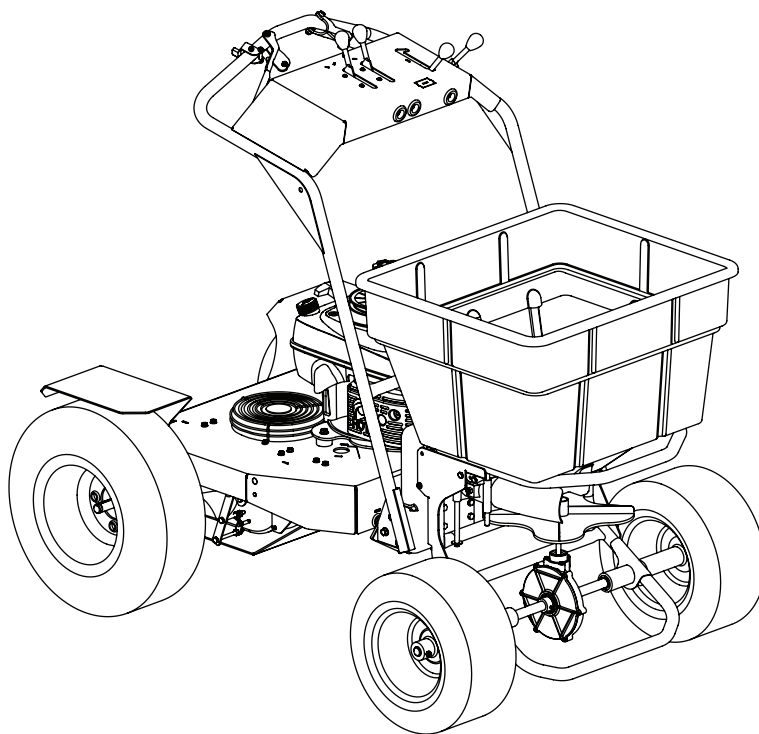




OPERATOR'S MANUAL



Hydrostatic Stand-On Self-Propelled Spreader

WARNING

**READ AND FOLLOW ALL SAFETY RULES AND INSTRUCTIONS IN THIS MANUAL
BEFORE ATTEMPTING TO OPERATE THIS MACHINE.
FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.**

CUB CADET LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

Thank You

Thank you for purchasing a Cub Cadet Commercial Hydrostatic Stand-On Spreader. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual prior to operating the equipment. It instructs you how to safely and easily set up, operate and maintain your machine. Please be sure that you, and any other persons who will operate the machine, carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

All information in this manual is relative to the most recent product information available at the time of printing. Review this manual frequently to familiarize yourself with the machine, its features and operation. Please be aware that this Operator's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models.

We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

If you have any problems or questions concerning the machine, phone your local Cub Cadet dealer or contact us directly. Cub Cadet's Customer Support telephone numbers, website address and mailing address can be found on this page. We want to ensure your complete satisfaction at all times.

Throughout this manual, all references to *right* and *left* side of the machine are observed from the operating position.

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Record Product Information

Before setting up and operating your new equipment, please locate the model plate on the equipment and record the information in the provided area to the right. You can locate the model plate by standing at the operator's position and looking underneath the control panel. This information will be necessary, should you seek technical support via our web site or with your local Cub Cadet dealer.

MODEL NUMBER

--	--	--	--	--	--	--	--	--	--	--

SERIAL NUMBER

--	--	--	--	--	--	--	--	--	--	--

Customer Support

If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this machine, you can seek help from the experts. Choose from the options below:

- ◇ Visit us on the web at www.cubcadet.com
- ◇ Locate your nearest Cub Cadet Dealer at (877) 282-8684
- ◇ Write us at Cub Cadet LLC • P.O. Box 361131 • Cleveland, OH • 44136-0019



WARNING: This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol. **HEED ITS WARNING!**

CALIFORNIA PROPOSITION 65



WARNING: Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to State of California to cause cancer and birth defects or other reproductive harm.



WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. *Wash hands after handling.*



DANGER: This machine was built to be operated according to the safe operation practices in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating fingers, hands, toes and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.



WARNING - FOR THE STATE OF CALIFORNIA: A person shall not sell, offer for sale, lease, or rent to a person any equipment that is powered by an internal combustion engine subject to Section 4442 or 4443, and not subject to Section 13005 of Health and Safety Code, unless that equipment has a permanent writing label attached that is in plain view to the operator that states, 'WARNING-Operation of This Equipment May Create Sparks That Can Start Fires Around Dry Vegetation. A Spark Arrestor May be Required. The Operator Should Contact Local Fire Agencies For Laws or Regulations Relating to Fire Prevention Requirements.'

General Operation

1. Read this Operator's Manual completely before starting the machine. Study the controls and learn the proper sequence of operation. Retain Operator's Manual in a safe place for future reference.
2. Do not allow anyone to operate or maintain this machine who has not read the manual. Never permit children under the age of 16 to operate this machine.
3. Always have your feet and hands clear of the controls when starting the engine.
4. Do not remove any shields, guards, decals or safety devices. If a shield, guard, decal or safety device is damaged or does not function, repair or replace it before operating the machine.
5. Always wear safety glasses, long pants and safety shoes when operating or maintaining this unit. Do not wear loose-fitting clothing.
6. Never run the engine indoors without adequate ventilation. Exhaust fumes are deadly.
7. To avoid serious burns, do not touch the engine or muffler while the engine is running or until it has cooled for at least 30 minutes after it has been shut off.
8. Keep adults, children and pets away from the area to be spread/sprayed.
9. Spread/spray only in daylight.
10. Always check the area to be spread/sprayed and remove debris and other objects prior to spreading/spraying.
11. Watch for holes, sprinkler heads and other hidden hazards.
12. Reduce speed when making sharp turns.

13. Always have proper footing on slopes and hill sides and never operate when conditions are slippery. Be very careful on wet grass.
14. Always keep both hands on the handles.
15. Be careful when crossing gravel paths or road- ways.
16. Never leave the machine unattended without placing the ground speed control levers in neutral, engaging the park brake, shutting off the engine and closing the fuel shutoff valve.
17. Always park the unit and start the engine on a level surface with the ground speed control levers in neutral, and the park brake engaged.
18. If you hit a solid object while spreading/spraying, place the ground speed control levers in neutral, engage the park brake and stop the engine. Disconnect the spark plug wire and inspect for damage. Repair any damage.
19. Do not operate machine on excessively steep (more than 15 degrees) slopes. Go laterally or diagonally across the slope, not up and down the slope.
20. Always disconnect the spark plug wire to prevent the engine from accidentally starting before performing any maintenance on this machine.
21. Keep the machine and especially the engine/pump area clean and free of grease, grass and leaves to reduce the potential for over heating and fire.
22. The speed and direction control levers located on the handle are designed for your safety. Do not modify them or operate the machine if they are damaged.

General Requirements

Personal Protective Equipment (PPE):

OSHA Standard 1910.132 through 1910.139

23. OSHA standard 1910.132 states in relevant part:
 - a. Protective equipment, including personal protective equipment or PPE, for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition where ever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact.

This standard is subject to change. Please check www.osha.gov for the latest regulatory updates

General

Sometimes, it is not possible to reduce a hazard by eliminating it, substituting a less hazardous process or product, making changes to equipment, or even by changing how you do the job. That is when you need personal protection.

PPE includes items like gloves, goggles, boots, hearing protection and respirators. Respirators filter out particles or block gases and vapors that can harm the respiratory system. With a surface area well supplied with blood vessels and equal in size to a tennis court, the lungs are the quickest and most direct route for absorbing harmful substance into your body.

NOTE: PPE does not prevent accidents, but it does prevent or reduce injury and even fatalities when used properly.

Equipment (PPE)

Protective equipment must be selected carefully. Always test fit the protective equipment to be sure it fits properly and comfortably. If it is not comfortable — it will not be worn; if it is not worn — it will not protect. PPE includes:

- Respirators
- Chemical-resistant clothing
- Hearing protectors
- Gloves
- Safety goggles and glasses
- Hard hats
- Sensors to detect hazardous substance
- Communication devices used for safe deployment of workers

Inhaling pesticide fumes and mists is a very common entry route of pesticides into the body. Absorption through the lungs is great and the sensitivity is high.

The National Institute for Occupational Safety and Health (NIOSH), under authority of the Federal Mine Safety and Health Act of 1977 and the Occupational Safety and Health Act of 1970, tests, approves, and certifies respiratory equipment as being safe for its intended purpose.

NOTE: Always be certain that the NIOSH compliance number is on the product before purchasing respiratory equipment.

Two systems of respiratory protection are available, depending on the type of respiratory risk involved: air-purification (filtering) and air-supplying. For most pesticide work, the air-purifying equipment is adequate and safe.

Protective equipment is usually required by the pesticide label in one form or another and is integral to safe pesticide application. Chemical-protective clothing consists of multi-layered garments made out of various materials that protect against a variety of hazards. Because no single material can protect against all chemicals, multiple layers of various materials usually are used to increase the degree of protection. Protection is maximized by total encapsulation (completely covering the wearer). An assortment of types of chemical-protective hats, hoods, gloves, and boot covers are used with the garments.

There are many brands and models of protective equipment available for use in pesticide application. Price is not always an indicator of quality, so shop carefully.

NOTE: Select equipment that is NIOSH tested and approved.

Protective equipment, appropriate for the task and hazards that an employee could be potentially exposed to, shall be provided by the employer. Since comfort and proper fit must be considered, the person who is going to use it must select the proper size to ensure correct fit and function. Unused protective equipment does not help anyone.

NOTE: Many supply centers, hardware stores, chemical retailers, and equipment/machinery dealers keep protective equipment in stock.

Training

Written procedures shall be developed for PPE use. These procedures shall include all information and guidance necessary for their proper selection, use and care. The employer shall provide fitting instructions including demonstrations and practice in how the PPE should be worn. It is essential that both supervisors and workers be properly instructed in PPE selection, use, and maintenance. Training shall provide the workers an opportunity to handle PPE, and have it fitted properly.

When to replace PPE

All PPE shall be inspected routinely before and after each use. A program for maintenance and care of PPE shall be initiated and be adjusted to the type of work place, working conditions, and hazards. It shall include the following:

- Inspection for defects and damage
- Cleaning and disinfecting
- Repair
- Storage

Many factors influence how long PPE (especially respirators) remains effective. As well as hours of use, an air-purifying respirator's service life is affected by the concentration of dust and other contaminants in the environment; the user's body size; how strenuously the user works while the respirator is worn; and how the respirator is stored.

NOTE: As a result, it's not possible to specify a length of time after which a respirator should be replaced.

In general, replace a mask or filter when it is visibly dirty or damaged, or when you experience difficulty breathing through it. Replace respirator cartridges when you can smell or taste chemical while or after using the respirator, or according to the manufacturer's recommendations. Replacement or repairs shall be done only by experienced person with parts designed for the PPE. No attempts shall be made to replace components or to make adjustments or repairs beyond the manufacturer's recommendations.

Slope Operation

Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death.



CAUTION: All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not make any turns on it.

For your safety, use the slope gauge included in this section to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15 degrees as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

DO:

- Go across slopes, not up and down.
- Remove obstacles such as rocks, limbs, etc.
- Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low enough speed so that you will not have to stop while on the slope.
- Follow the manufacture's recommendations for counterweights with attachments to improve stability.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid acceleration or deceleration could cause the front of the machine to lift and rapidly flip over backwards, which could cause serious injury.
- Avoid starting or stopping on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT:

- Do not turn on slopes unless necessary; then, turn slowly and use extra care.
- Do not operate near drop-offs, ditches or embankments. The unit could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not operate on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.

Transporting Machines

- Machines operated on public roads must comply with state & local ordinances, SAE J137, and ANSI/ASABE S279.
- Use care when loading or unloading machines onto trailers and trucks.
- If ramps are used, they must be full width, and secured to the trailer or truck.
- Machines must be secured onto trailers and trucks with straps, chains, cables, ropes, or other means deemed adequate for that purpose. The front and rear of the machines must be secured to the trailer or truck in both the lateral and vertical directions.

Service

Safe Handling of Gasoline:

1. To avoid personal injury or property damage use extreme care in handling gasoline. **Gasoline is extremely flammable and the vapors are explosive.** Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.

- a. Use only an approved gasoline container.
 - b. Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
 - c. When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
 - d. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
 - e. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
 - f. Never fuel machine indoors.
 - g. Never remove gas cap or add fuel while the engine is hot or running. Allow engine to cool at least two minutes before refueling.
 - h. Never over fill fuel tank. Fill tank to no more than 1 inch below bottom of filler neck to allow space for fuel expansion.
 - i. Replace gasoline cap and tighten securely.
 - j. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
 - k. To reduce fire hazards, keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel soaked debris.
 - l. Never store the machine or fuel container inside where there is an open flame, spark or pilot light as on a water heater, space heater, furnace, clothes dryer or other gas appliances.
 - m. Allow a machine to cool at least five minutes before storing.
4. After striking a foreign object, stop the engine, disconnect the spark plug wire(s) and ground against the engine. Thoroughly inspect the machine for any damage. Repair the damage before starting and operating.
 5. Never attempt to make adjustments or repairs to the machine while the engine is running.
 6. For safety protection, frequently check components and replace immediately with original equipment manufacturer's (O.E.M.) parts only, listed in the parts manual. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
 7. Do not change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
 8. Maintain or replace safety and instruction labels, as necessary.
 9. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

General Service

1. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless, and deadly gas.
2. Before cleaning, repairing, or inspecting, make certain all moving parts have stopped. Disconnect the spark plug wire and ground against the engine to prevent unintended starting.
3. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.

Do not modify engine

To avoid serious injury or death, do not modify engine in any way. Tampering with the governor setting can lead to a runaway engine and cause it to operate at unsafe speeds. Never tamper with factory setting of engine governor.

Notice Regarding Emissions

Engines which are certified to comply with California and federal EPA emission regulations for SORE (Small Off Road Equipment) are certified to operate on regular unleaded gasoline, and may include the following emission control systems: Engine Modification (EM), Oxidizing Catalyst (OC), Secondary Air Injection (SAI) and Three Way Catalyst (TWC) if so equipped.

Spark Arrestor



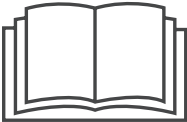
WARNING! This machine is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrestor meeting applicable local or state laws (if any).

If a spark arrestor is used, it should be maintained in effective 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.

A spark arrestor for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.

Safety Symbols

This page depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

Symbol	Description
	READ THE OPERATOR'S MANUAL(S) Read, understand, and follow all instructions in the manual(s) before attempting to assemble and operate.
	DANGER — ROTATING BLADES To reduce the risk of injury, keep hands and feet away. Do not operate unless discharge cover or grass catcher is in its proper place. If damaged, replace immediately.
	DANGER — BYSTANDERS Do not mow when children or others are around.
	DANGER — HAND/ FOOT CUT Keep hands and feet away from rotating parts.
	DANGER — THROWN DEBRIS Remove objects that can be thrown by the blade in any direction. Wear safety glasses.
	DANGER — SLOPES Use extra caution on slopes. Do not mow slopes greater than 15°.
	WARNING—GASOLINE IS FLAMMABLE Allow the engine to cool at least two minutes before refueling.
	WARNING— CARBON MONOXIDE Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
	WARNING— HOT SURFACE Engine parts, especially the muffler, become extremely hot during operation. Allow engine and muffler to cool before touching.



WARNING: Your Responsibility—Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

SAVE THESE INSTRUCTIONS!

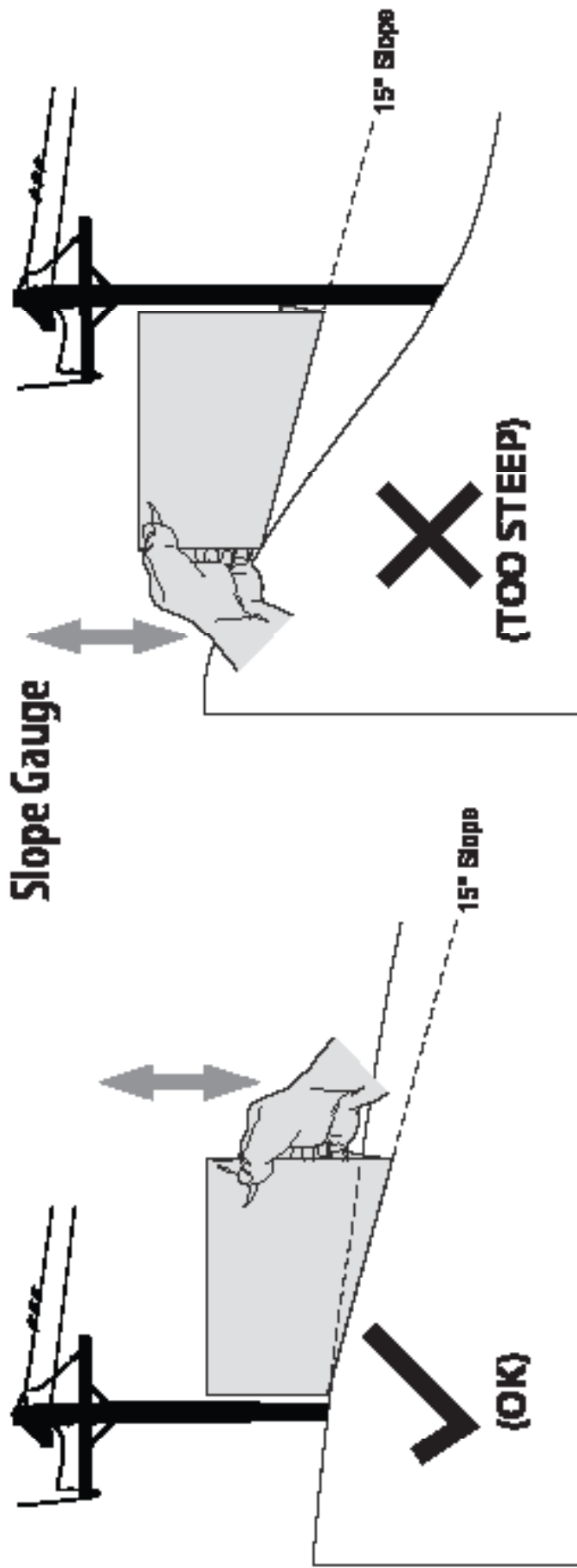


Figure 1

Figure 2

15° dashed line

**USE THE SLOPE GAUGE TO DETERMINE
IF A SLOPE IS TOO STEEP FOR SAFE OPERATION**

To check the slope, proceed as follows:

1. Remove the page and fold along the dashed line.
2. Locate a vertical object on or behind the slope (e.g., a pole, building fence, tree, etc.).
3. Align the left side of the slope gauge with the object (See Figure 1 and Figure 2).
4. Adjust the gauge upwards until the left corner touches the slope (See Figure 1 and Figure 2).
5. If there is a gap below the gauge, the slope is too steep for safe operation (See Figure 2 above).



WARNING! Slopes are a major factor related to tip-over and roll-over accidents which can result in severe injury or death. Do not operate machine on slopes in excess of 15 degrees. All slopes require extra caution.

Always operate across the face of slopes, never up and down slopes.

NOTE: References to LEFT, RIGHT, FRONT, and REAR indicate that position on the tractor when facing forward in the operator's position.

Spreader Set-Up

Moving The Spreader Manually

Your spreader's transmission is equipped with a hydrostatic relief valve for occasions when it is necessary to move the spreader manually. Opening this valve permits the fluid in the transmission to bypass its normal route, allowing the tires to "freewheel." To open the hydrostatic relief valve, proceed as follows:

1. Locate the transmission bypass rod in the front right of the transmission. See Fig. 3-1.

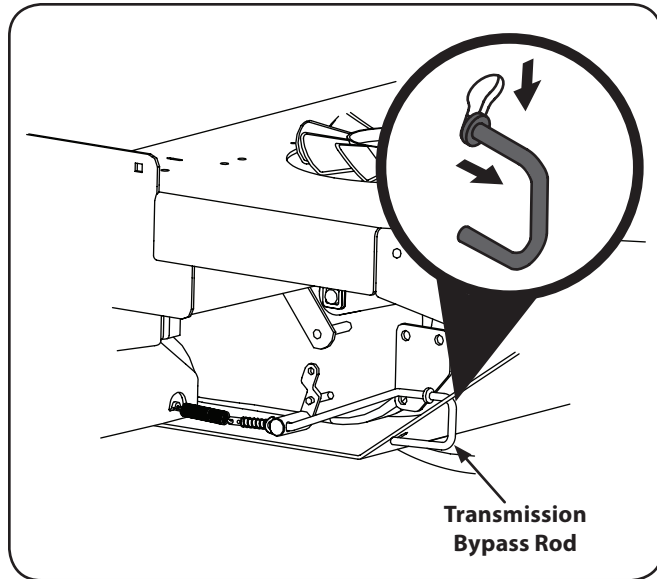


Figure 3-1

2. Pull the transmission bypass rod up, outward and then down, to lock it into freewheel mode.

NOTE: The transmission will NOT engage when the hydrostatic bypass rod is pulled out. Return the rod to its normal position prior to operating the tractor.

3. Pull the transmission bypass rod outward, up, let it slide back into position and then release, to remove the transmission from freewheel mode.



CAUTION: Never attempt to move the tractor manually without first opening the hydrostatic relief valve. Doing so will result in serious damage to the tractor's transmission.

Initial Adjustments



WARNING! Before performing any adjustments, disconnect the spark plug wire to prevent the engine from accidentally starting.

1. Check the tire pressure. Drive wheels should be inflated to 15 psi. Front wheels (unless foam-filled) should be inflated to 15 psi.

NOTE: New tires are overinflated in order to properly seat the bead to the rim.

2. The tension of the transaxle drive belt should be adjusted so that a five pound pull between the engine traction drive pulley and the pump drive pulley opposite the idler pulley deflects the belt about $\frac{3}{16}$ ". See the Maintenance & Adjustments section for information on adjusting the belt tension.
3. The long speed control cables which connect to the pump control levers should initially be adjusted so that when the ground speed control levers are in neutral, and the speed levers are released from the neutral position, the machine stands still with the engine running. If the machine starts to creep forward or to the rear in this situation, then the speed control cable must be adjusted. See the Maintenance & Adjustments section for information on adjusting the speed control cables.
4. Lubricate all fittings listed in the Maintenance & Adjustments section.
5. Check that all nuts, bolts, and screws are tight.

Gas and Oil Fill-up



WARNING! Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes, and other sources of ignition.

NOTE: Your spreader-sprayer is shipped with motor oil in the engine. However, you MUST check the oil level before operating. Be careful not to overfill.

1. Check the engine oil level. Fill to the proper level with 10W30 engine oil rated for service SF or higher.
2. Move the machine outdoors. Check the engine gasoline level. When filling the tank, stop when the gasoline reaches one inch from the top. This space must be left for expansion. Use fresh, clean, unleaded, regular gasoline.

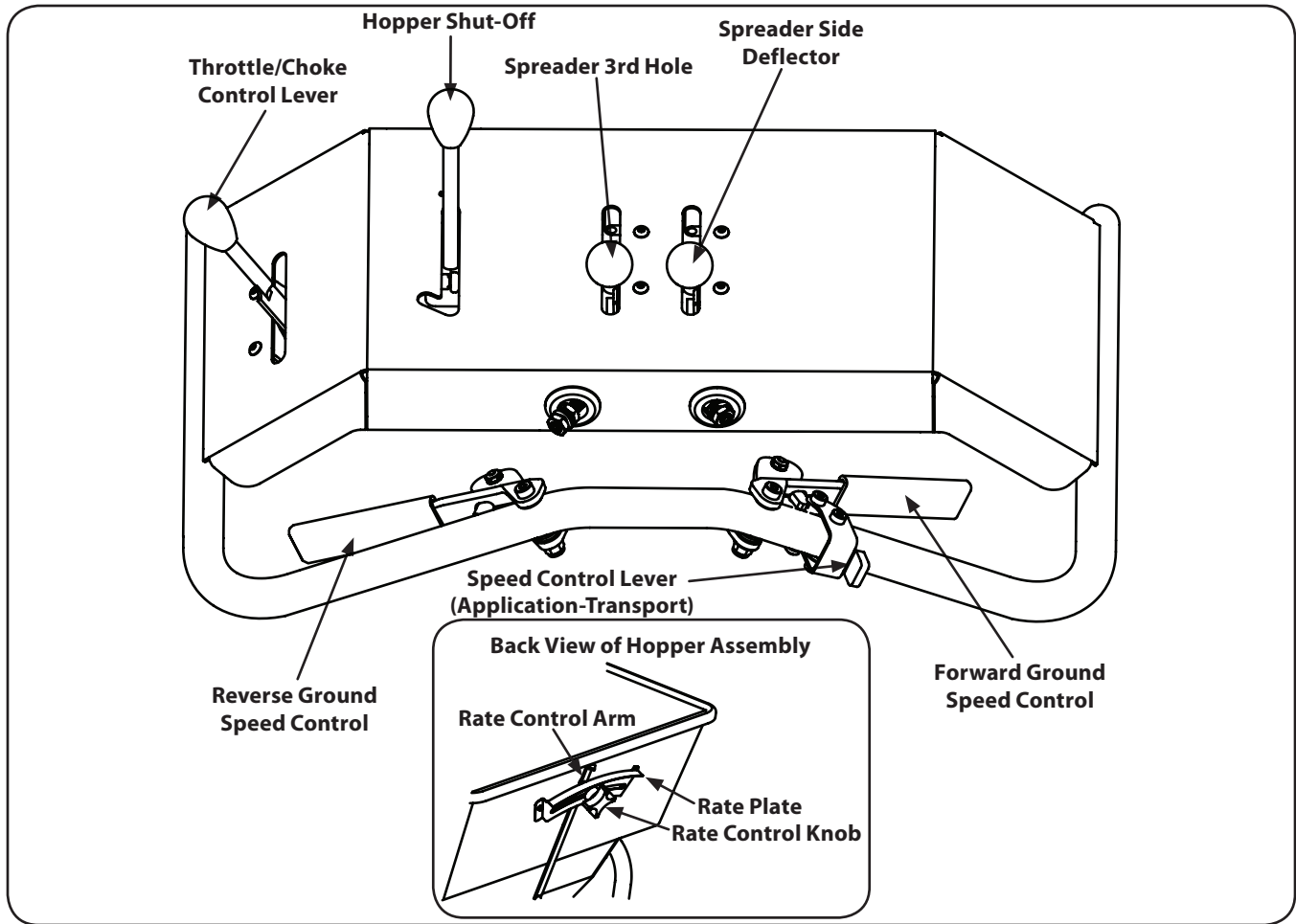


Figure 4-1

Spreader controls and features are illustrated in Fig 4-1 and described on the following pages.

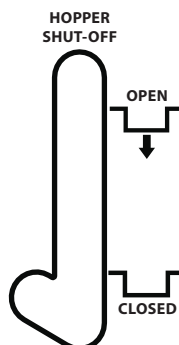
NOTE: References to LEFT, RIGHT, FRONT, and REAR indicate that position on the tractor when facing forward in the operator's position.



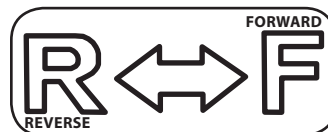
WARNING! Read and follow all safety rules and instructions in this manual, including the entire Operation section, before attempting to operate this machine. Failure to comply with all safety rules and instructions may result in personal injury.

Hopper Shut-Off

The hopper shut-off is located on the left side of the control panel and is used to open and close the two main holes at the bottom of the spreader hopper.



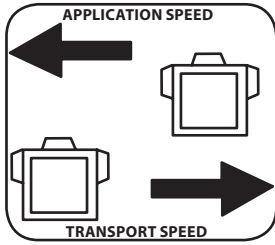
Ground Speed Control Levers (Forward & Reverse)



The forward speed control lever is located on the right side of the handle. The reverse speed control lever is located on the left side of the handle. The two levers control the groundspeed of the spreader. Squeezing the forward ground control lever against the handle cause the spreader to move forward. Squeezing the reverse control lever against the handle cause the spreader to move in reverse. The tighter each lever is squeezed towards the handle the faster the spreader will move in the appropriate direction. When released, the levers return to the neutral position.

NOTE: To start the engine both levers must be in their neutral position.

Speed Control Lever (Application-Transport)



The speed control lever is located on the right side of the control panel on the handle facing the operator. It is used to select the level of ground speed. The application speed is the slower speed and transport is the faster speed. To select application speed, press the lever fully to the left. To select the transport speed, press the lever fully to the right.

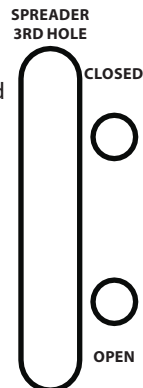
Spreader Side Deflector

The spreader side deflector is controlled by the right-hand knob located on the center of the control panel and is used to stop spreading to the right of the spreading path.



Spreader 3rd Hole

The spreader 3rd hole is controlled by the left-hand knob located on the center of the control panel and is used to close and open the third (left-hand) hole at the bottom of the spreader hopper, which prevents or allows the unit to spread on the left side of the spreading path.



Throttle/Choke Control Lever

The throttle/choke control lever is located on the far left side of the control panel. Moving the throttle/choke control lever from the rear to the front will increase the engine speed from slow to fast. To start the engine, set the throttle/choke control lever all the way to the front in the "CHOKE" position. After the engine starts, move the throttle/choke control lever back to the detent position.



Transmission Bypass Rod (Not shown)

A valve is located on the right side of the hydrostatic transmission. When the lever is moved into the "freewheel" mode the spreader can be pushed forward or pulled in reverse without the engine running.

Parking Brake



The mechanical disc brake is activated by the lever in the foot platform area. Press down on the lever to engage the park brake, and lift up the lever to release.

NOTE: The parking brake must be engaged to start the engine.

Rate Control Arm

The Rate Control Arm is located on the back of the hopper and indicates on the rate plate the current discharge setting of the discharge holes.

Rate Control Knob

The rate control knob is located on the back of the Hopper and is used to secure the rate control arm in the proper discharge rate. The knob — when loosened — can be used to move the rate control arm to the desired discharge rate.

Rate Plate

The rate plate is located on the back of the hopper and indicates the different discharge settings of the spreader.

Hour Meter and Tachometer

Located at the upper left edge of the control panel. When the machine is running the tachometer displays engine rpm. When the machine is off it displays time of operation.



WARNING! Make certain you thoroughly understand all of the safety precautions before you attempt to operate this machine.

NOTE: Your spreader is shipped with motor oil in the engine. However, you **MUST** check the oil level before operating. Be careful not to overfill. Refer to the Engine Operator's Manual included with your spreader for complete Gasoline and Oil fill-up instructions.

Starting the Engine

1. Move the spreader to a "test area" where you can operate it for about a half an hour without being disturbed.
2. Make sure that the ground speed control levers are in the neutral position and the park brake is engaged.
3. Connect the spark plug wire if necessary.
4. Move the throttle/choke control lever to the "CHOKE" position.
5. Pull gently on the starter handle until it begins to resist, then pull quickly and forcefully to overcome the compression. Do not release the handle and allow it to snap back. Return the rope **SLOWLY** to the original position. If required, repeat this step until the engine starts.
6. Set the throttle/choke control lever to 50% of full engine RPM and allow the engine to warm up.
7. After the engine warms up, set the throttle/choke control lever to 75% of full engine RPM.

Stopping the Engine

1. To stop the spreader, release both speed control levers.
2. Move the throttle/choke control lever to the "OFF" position to stop the engine.
3. Disconnect the spark plug wire to prevent unintended starting.

Driving The Spreader

1. Move the forward ground speed control lever to the application position.



CAUTION: Set the ground speed control lever in the application position until you are fully familiar with the operation of the machine.

2. To turn the machine, move the control handle to the side opposite of the way you want to turn, i.e., move the control handle left and the machine turns right. Move the control handle right, and the machine turns left.
3. To stop the forward motion, release the forward control lever and to stop the reverse motion release the reverse speed control lever.
4. Before moving into reverse, the machine's forward motion should be completely stopped.

5. Practice operating the machine and as you gain confidence, move the ground speed selector lever to the transport position. Operate the machine in the application position until you are comfortable and confident with the controls.



WARNING! Do not spread at full speed, only at the application speed. Set the ground speed control lever at transport only when not spreading.

6. After the first full day of use, all nuts, bolts and screws should be rechecked for proper tightness and the belts should be rechecked for proper tension.

Slope Operation

Refer to the SLOPE GAUGE in the Safe Operation Practices section of this manual to help determine slopes where you may operate the spreader safely.



WARNING! Do not spread on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). The spreader could overturn and cause serious injury.

DO:

- Go across slopes, not up and down.
- Remove obstacles such as rocks, limbs, etc.
- Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low enough speed so that you will not have to stop while on the slope.
- Follow the manufacture's recommendations for counterweights with attachments to improve stability.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid acceleration or deceleration could cause the front of the machine to lift and rapidly flip over backwards, which could cause serious injury.
- Avoid starting or stopping on a slope. If the tires lose traction, disengage spreader and proceed slowly straight down the slope.

DO NOT:

- Do not turn on slopes unless necessary; then, turn slowly and use extra care.
- Do not operate near drop-offs, ditches or embankments. The spreader could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not operate on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.

Using the Spreader

1. Check the rate setting on the product package.
2. Adjust the rate setting using the rate plate on the back of the hopper.

NOTE: The rate settings on the product packaging is a recommended starting point. Always check the rate in a small area before treating a large area. See the Maintenance & Adjustments section for information on calibrating the spreader.

3. Make sure the On/Off Lever is in the "OFF" position and the mesh screen is in place. Then fill the hopper with the desired amount of application product.

NOTE: Always fill the spreader on the driveway or sidewalk, not on the lawn.

4. Determine your spread path:
 - a. To achieve the widest spreading path, press the hopper shut-off lever forward to open the right-hand and center holes, and press the spreader 3rd hole lever forward to open the left-hand hole.
 - b. Pull the spreader 3rd hole lever down to close the left-hand hole and spread ONLY to the center and right-hand side of the unit.
 - c. Press the spreader 3rd hole lever up to open the left-hand hole and keeping the hopper shut-off in the "OPEN" position, push the spreader side deflector lever forward to spread only to the center and left-hand side of the unit.
 - d. To spread ONLY to the left-hand side of the unit, press the spreader 3rd hole lever forward to open the left-hand hole and pull back the hopper shut-off lever to the "OFF" slot to close the right-hand and center holes.
 - e. To limit your spreading path to the width of the unit, keep the 3rd hole closed and press the spreader side deflector lever forward to prevent spreading to the right-hand side of the unit.
5. Engage the forward ground speed control lever to move the spreader forward and start the spreader impeller.
6. Empty the spreader after each use. Wash the spreader thoroughly and allow it to dry. Keep the impeller clean.
7. Lubricate all moving parts. Apply grease to the five grease fittings; two in the axle supports, two in the gear support and one in the idler wheel (if the idler wheel has a steel hub).

Spreader Tips

1. Operate the spreader at a consistent speed (approximately 3.5 m.p.h. is recommended) and is achieved when the speed control lever is set for application.
2. Always close the holes before filling the hopper.
3. Be sure the screen is in place to prevent lumps or paper scraps from plugging the holes in the hopper bottom.
4. Always start driving forward before opening the hopper holes; close the hopper holes before forward motion is stopped.
5. Empty the spreader after each use. Wash the spreader thoroughly and allow it to dry. Keep the impeller clean.
6. Lubricate all moving parts. See "Lubrication" in the Maintenance & Adjustments section.

Transporting Spreader

- Machines operated on public roads must comply with state & local ordinances, SAE J137, and ANSI/ASABE S279.
- Use care when loading or unloading machines onto trailers and trucks.
- If ramps are used, they must be full width, and secured to the trailer or truck.
- Machines must be secured onto trailers and trucks with straps, chains, cables, ropes, or other means deemed adequate for that purpose. The front and rear of the machines must be secured to the trailer or truck in both the lateral and vertical directions.

Maintenance Schedule

	Before Each use	Every 25 Hours	Every 100 Hours	Every 300 Hours	Prior to Storing
Clean the machine and allow to dry	✓				✓
Lube front axle		✓			✓
Lube pivot points		✓			✓
Lube front wheel		✓			✓
Check condition and tension of transaxle belt			✓		
Check all nuts, bolts and screws are tight			✓		✓
Change transaxle drive belt				✓	

General Purpose Lubrication: Use any NLGI grade 2 multi-purpose grease. Shell Albida EP2 is recommended. Shell Albida EP 2 is a red-colored multi-purpose grease designed for heavy-duty bearing applications. It has high base oil viscosity for mechanical stability, has been formulated for high load, low-speed applications, and has excellent lubrication and corrosion protection.

Maintenance



WARNING! Before performing any maintenance disconnect the spark plug wire to prevent the engine from accidentally starting.

General Recommendations

- Always observe safety rules when performing maintenance.
- The warranty on this machine does not cover items that have been subjected to operator abuse or negligence. To receive full value from warranty, operator must maintain this machine as instructed here.
- Changing of engine-governed speed will void engine warranty.
- All adjustments should be checked at least once each season.
- Periodically check all fasteners and make sure these are tight.
- Close the fuel shutoff valve after each use.

Engine

Refer to the Kawasaki Owner's Manual for all engine maintenance procedures and instructions.

NOTE: Maintenance, repair, or replacement of the emission control devices and systems which are being done at owner's expense may be performed by any engine repair establishment or individual. **Warranty repairs must be performed by a Cub Cadet Dealer.**

Change the Engine Oil



WARNING! If the engine has been recently run, the engine, muffler and surrounding metal surfaces will be hot and can cause burns to the skin. Exercise caution to avoid burns.

Maintain oil level as instructed in engine manual. The oil filter should be changed at every oil change interval. Be careful not to spill oil on any of the belts.

Hydrostatic Transmission

The hydrostatic transmission is sealed at the factory and is maintenance-free. The fluid level cannot be checked and the fluid cannot be changed. The transaxle is not owner repairable. If you have a problem with a transaxle, please contact your service center for a replacement. Do not disassemble the transaxle.

Cleaning the Spreader

Clean underside of the machine before each use to prevent build-up of fertilizer or other debris. Any fuel or oil spilled on the machine should be wiped off promptly. Do NOT allow debris to accumulate around the cooling fins of the engine, the transmission's cooling fan or on any other part of the machine, especially the belts and pulleys. Wash the machine off with water. Be sure to clean out materials from under the hopper. Allow the machine to dry before storing. Follow steps below for this job.

1. Disconnect the spark plug wire.
2. Allow the machine to cool.

- Tip the machine on the side with the air cleaner facing up. Hold the machine firmly.



WARNING! Never tip the machine more than 90° in any direction and do not leave the machine tipped for any length of time. Oil can drain into the upper part of the engine causing a starting problem.

- Wash the machine off with water. Be sure to clean out materials from under the hopper.

NOTE: Do not use a pressure washer to clean your unit. These may cause damage to bearings, or the engine.

- Put the machine back on its wheels on the ground.

Lubrication



WARNING! Before lubricating, repairing, or inspecting, always set parking brake, stop engine and remove key to prevent unintended starting.

Front Wheel/Axle Bearings

The front wheel bearings and the front axle bearings is equipped with grease fittings.

Pivot Points

Lubricate the two grease fittings on the pivot assembly.

Off-Season Storage

The following steps should be taken to prepare your unit for storage.

- Clean and lubricate the spreader thoroughly as described in the lubrication instructions.
- Do not use a pressure washer to clean your spreader.
- Place the machine in locked storage to avoid tampering or use by an untrained operator.
- Store the spreader in a dry, clean area. Do not store next to corrosive materials, such as fertilizer.

If the machine is to be in storage for more than 30 days, drain the fuel tank, run the engine to drain the carburetor dry, change the oil, remove the spark plug and pour a teaspoonful of oil into the cylinder. Pull the starter to crank the engine and distribute the oil then replace the spark plug.

When storing any type of power equipment in a poorly ventilated or metal storage shed, care should be taken to rust-proof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts of your machine before storage.

Adjustments

Spreader Calibration

Two items must be considered when calibrating a spreader. The first is the distribution pattern of the spreader, i.e., the pattern

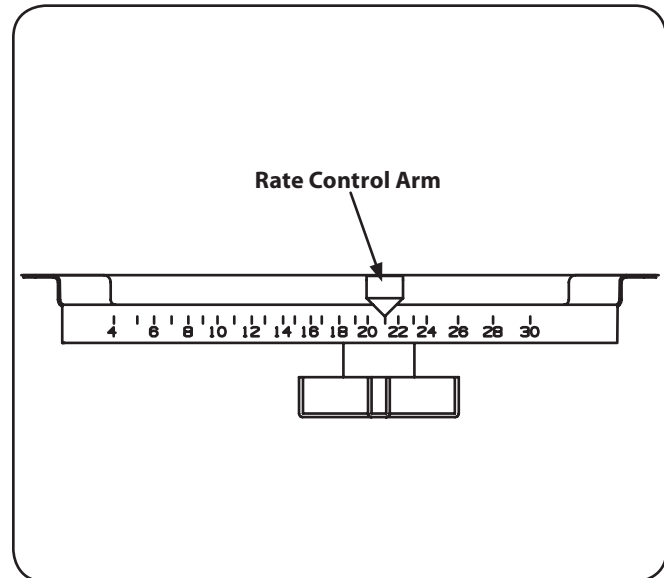


Figure 6-1

the product makes as it strikes the ground after being thrown out by the spreader's impeller. There are many factors which affect the distribution pattern of a spreader and some of them relate directly to the product being spread. For this reason, we recommend that the spreader be calibrated separately for every product to be applied. Spreader calibration should be checked at least once a month, or more often when the spreader is used frequently.

The second item is the product application rate, i.e., the amount of product applied per thousand square feet. This is important because over-application can be costly and may cause plant injury, while under-application will reduce the effectiveness of the product.

To Calibrate A Spreader, Make Sure To:

1. Check the spreader discharge holes with all the levers in the closed positions.
2. If the discharge holes are not fully closed, adjust the jam nuts on the rate plate on/off cable located on the hopper shut-off.
3. Recheck the discharge holes with the hopper still in the closed position. Repeat this procedure until the holes are fully closed.

To Achieve A Uniform Distribution Pattern:

The most accurate method for checking pattern uniformity is to lay out shallow boxes or pans in a row on a line perpendicular to the direction of spreader travel. Eleven boxes or pans, two inches high placed on one-foot centers will provide accurate calibration.

To conduct the test:

1. Begin with the pattern slide completely open and set the rate control arm at the suggested approximate setting.

2. Make three passes over the boxes, driving the spreader in the same direction each time. The product caught in each box is then evaluated to determine the distribution pattern.

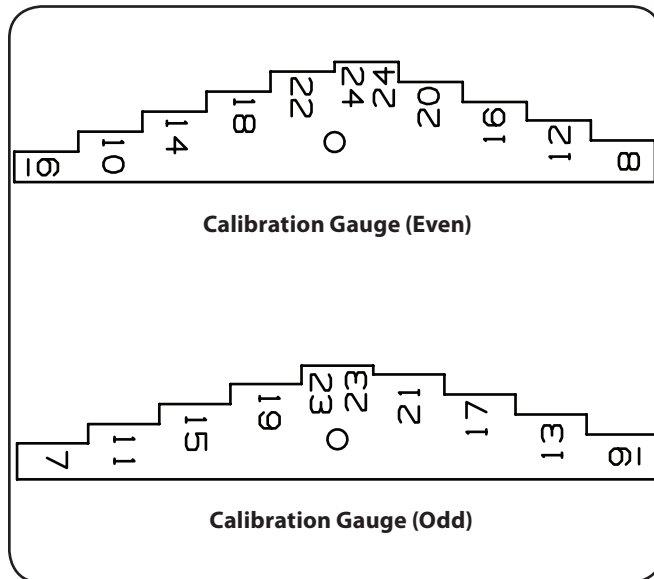


Figure 6-2

3. Weighing the product in each box is the most accurate, but a simpler method is to pour the contents of each box into a separate small vial or bottle.
4. Set the eleven vials or bottles side-by-side in order. This makes the pattern variation quite visible.
5. To reduce the amount of discharge to the right side (operator's right), the pattern slide should be partially closed and the test repeated until the distribution pattern is uniform.

To Achieve The Correct Product Application Rate:

1. The approximate spreader settings printed on any product label should only be used as the initial setting for calibration. Set the rate control arm at this approximate setting. See Fig. 6-1.
2. Using the collection boxes or pans, make a single pass over them to determine the effective pattern width. The effective pattern width is twice (2x) the distance to the point where the rate drops to one-half the average rate at the center.
NOTE: If the product in the vials from the center boxes averages two inches in depth, count out to the vial which has one inch of product. If this is the fifth vial from the center and the boxes were on one-foot centers, the effective pattern width is ten feet (2 x 5 ft.).
3. Knowing the effective pattern width (ten feet), measure out a lineal distance to equal 1,000 sq. ft. (10 ft. x 100 ft. = 1,000 sq. ft.).
4. Weigh 20 lbs. of product and place it in the spreader hopper.
5. Spread it over the distance necessary to equal 1,000 sq. ft. (100 ft.).

6. Weigh the product left in the hopper and subtract this amount from the amount with which you started. The result is the application rate for this product in pounds per 1,000 sq. ft. that your spreader is currently adjusted to disperse.
7. Adjust the rate control arm up or down as needed and repeat this procedure until the correct application rate is achieved.

To Use The Calibration Gauges:

The Calibration Gauges provide a series of "steps", numbered in $\frac{1}{32}$ " increments, that will allow you to "fine-tune" the spreader. Refer to Fig. 6-2.

1. Once you have calibrated your spreader for the product chosen, open the hopper holes and insert the calibration gauges until you determine which step fits tightly into one of the open holes in the hopper bottom.
2. To re-calibrate your spreader after a period of use, adjust the rate control arm to the "24" position.
3. Open the hopper holes and insert the even-numbered Calibration Gauge into one of the open holes in the hopper bottom.
4. Close the holes and let the shut off plate on the underside of the hopper make contact with the number 10 step on the Calibration Gauge.
5. Move the rate control arm back toward the "6" position until the bottom of the arm makes contact with the shut off plate. If your spreader is properly adjusted, the top of the rate control arm should be at setting "10".
6. To correct variances, remove the rate control arm, place the bottom of the arm (up to the bolt hole) in a vise, and bend either to the right or the left.

Changing the Pump Drive Belt

1. At the top of the engine base, remove the guard covering the transmission fan/pulley.
2. Access engine drive pulley, idler pulley and belt from the left hand side of the spreader. See Fig. 7-1.

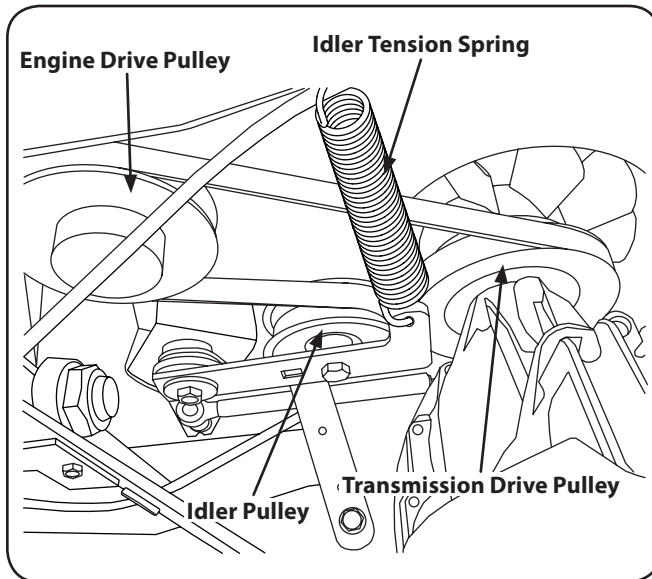


Figure 7-1.

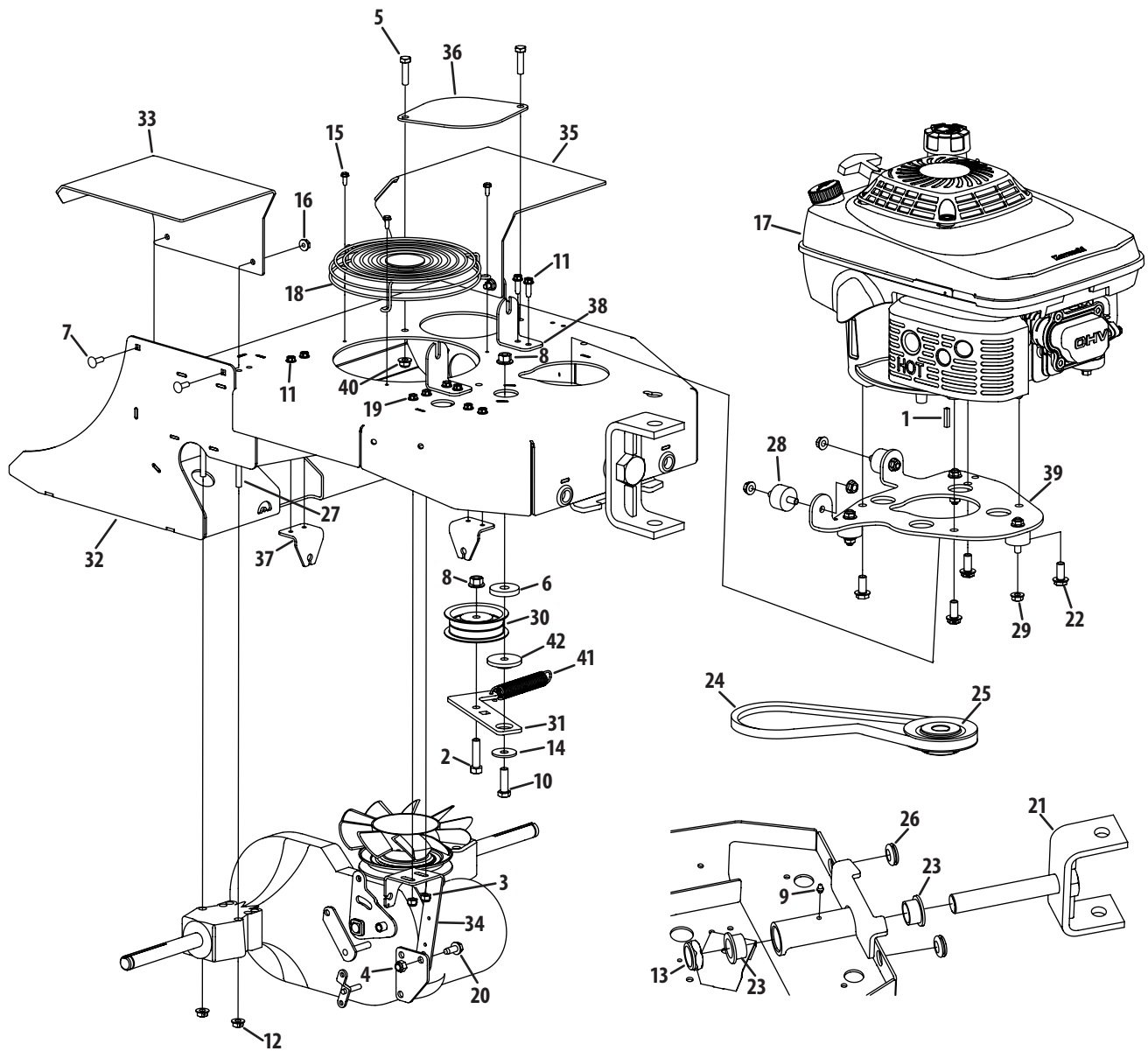
3. Release the drive belt idler tension by disconnecting the idler arm tension spring where it is attached to the engine base frame. See Fig. 7-1.
4. Remove the old belt and mount a new belt onto the transmission drive pulley and the engine drive pulley. Install the belt onto the alternator drive pulley, if equipped. See Fig. 7-1.
5. Position the idler pulley on the outer edge of the drive belt.
6. Reconnect the tension spring to the engine base frame.
7. Reinstall the guard covering the transmission fan/pulley.

NOTE: Specifications subject to change without notice.

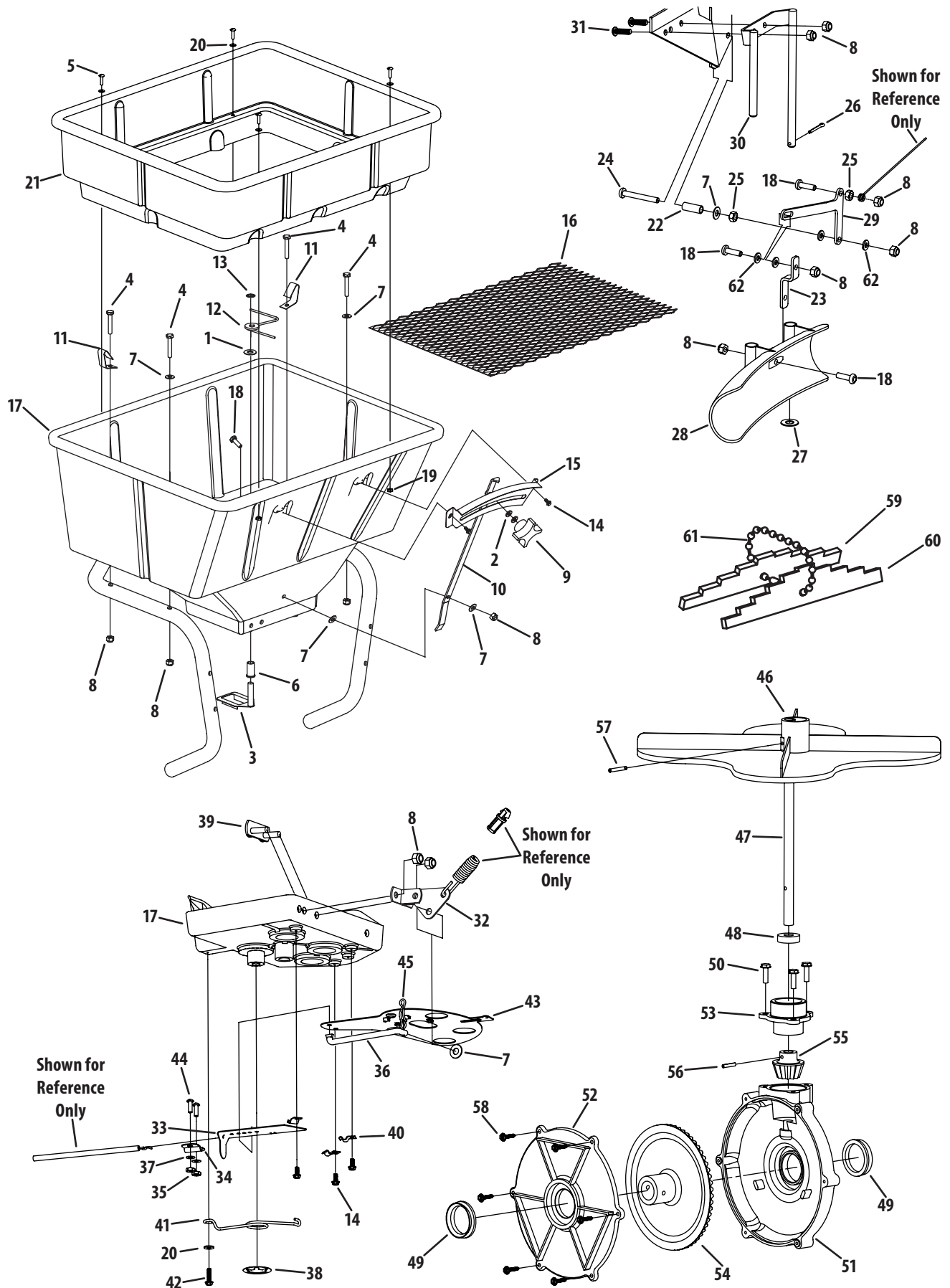
Specifications:

Model:	125 lb. Spreader
Engine Mfg.:	Kawasaki
Type:	4 Cycle Single Cylinder
Starter:	Recoil
Air Cleaner:	Dual Element Dry w/ Filter
Lube:	Pressurized w/ Filter
Fuel Capacity:	2 Quarts
Traction Drive:	Hydro Gear, Model 510 Hydrostat
Hydraulic Oil Capacity:	0.7 Quarts
Hydraulic Filtration:	Internal
Ground Speed:	0 to 5 mph
Wheels:	18 x 8.50-8 rear, 13 x 7.50 front
Width:	35"
Height:	47"
Length:	60"
Weight:	340 lbs. empty

Problem	Cause	Remedy
Engine Fails to start	1. Spark plug boot disconnected. 2. Fuel tank empty or stale fuel. 3. Engine not primed (if equipped with primer). 4. Faulty spark plug. 5. Blocked fuel line. 6. Engine flooded. 7. Fuel valve (if equipped) closed. 8. Engine not choked (if equipped with choke).	1. Connect wire to spark boot. 2. Fill tank with clean, fresh gasoline. 3. Prime engine as instructed in the Operation section. 4. Clean, adjust gap, or replace. 5. Clean fuel line. 6. Wait a few minutes to restart, but do not prime. 7. Open fuel valve. See engine manual. 8. Choke engine. See engine manual.
Engine runs erratic	1. Spark plug boot loose. 2. Blocked fuel line or stale fuel. 3. Vent in gas cap plugged. 4. Water or dirt in fuel system. 5. Dirty air cleaner. 6. Engine running with CHOKE applied.	1. Connect and tighten spark plug boot. 2. Clean fuel line; fill tank with clean, fresh gasoline. 3. Clear vent. 4. Drain fuel tank. Refill with fresh fuel. 5. Refer to engine manual. 6. Move throttle lever to "OFF."
Engine overheats	1. Engine oil level low. 2. Air flow restricted.	1. Fill crankcase with proper oil. 2. Clean area around and on top of engine.
Occasional skips (hesitates) at high speed	1. Spark plug gap too close.	1. Adjust gap to .030".
Idles poorly	1. Spark plug fouled, faulty, or gap too wide. 2. Dirty air cleaner.	1. Reset gap to .030" or replace spark plug. 2. Refer to engine manual.

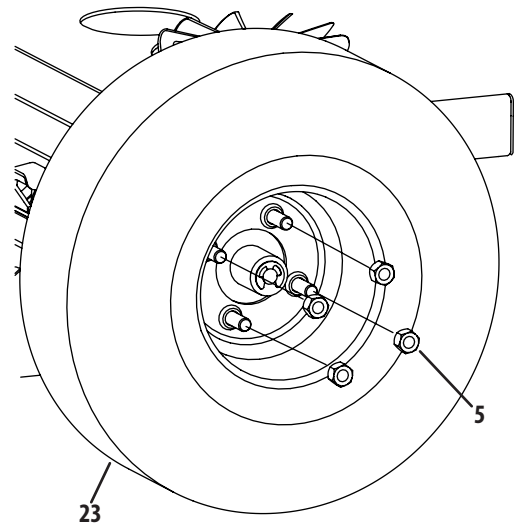
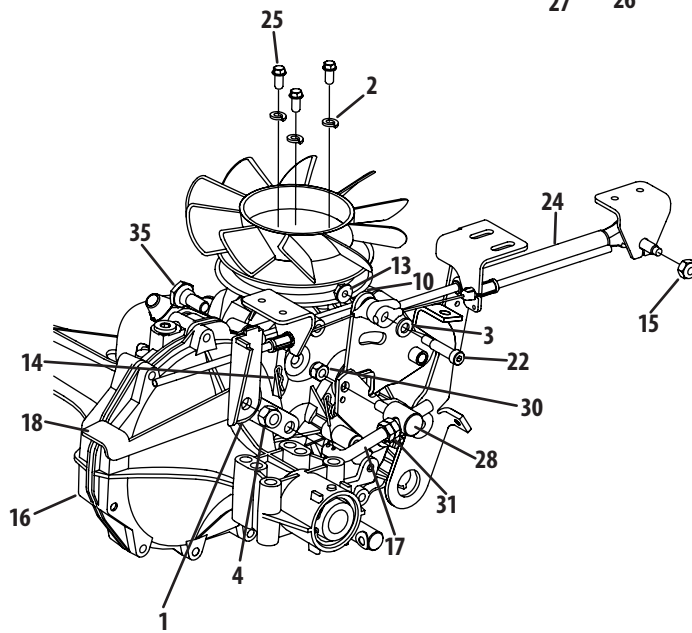
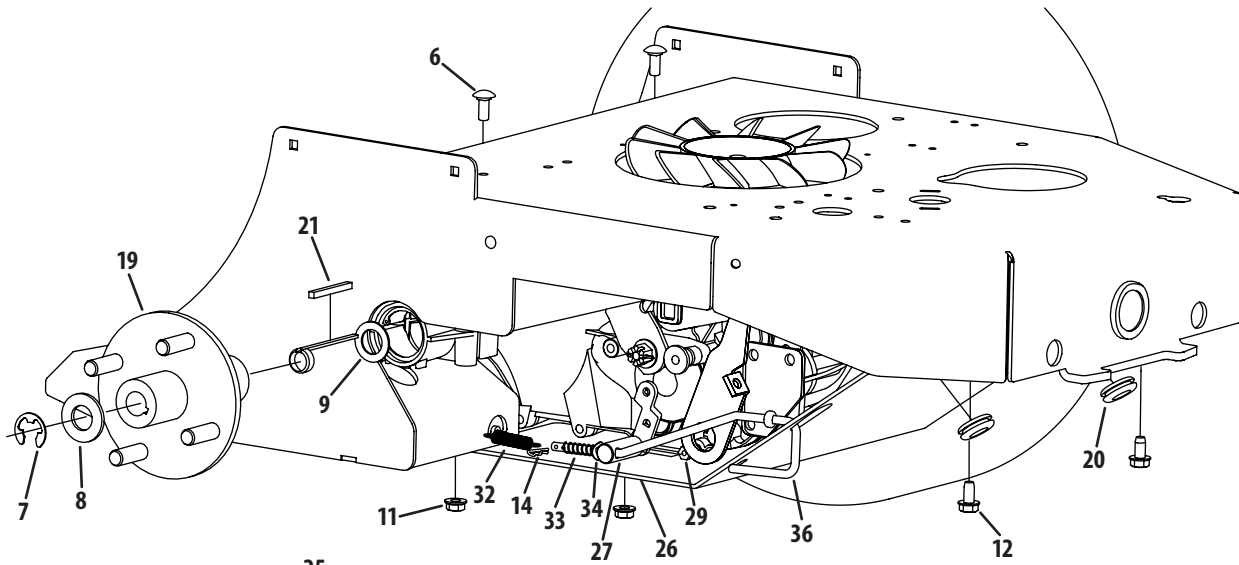


Ref.	Part Number	Description
1	00006246	Key, $\frac{3}{16}$ x 1
2	00011438	Hex Screw, $\frac{3}{8}$ -16 x 1- $\frac{1}{2}$
3	00012152	Nut, $\frac{1}{4}$ -20
4	00012165	Nut, $\frac{5}{16}$ -18
5	00013116	Hex Screw, $\frac{5}{16}$ -18 x 1- $\frac{1}{4}$
6	00013675	Clutch Washer
7	00017584	Carriage Bolt, $\frac{1}{4}$ -20 x .750
8	00022560	Hex Nut, $\frac{3}{8}$ -16
9	00060078	Grease Fitting, $\frac{1}{4}$ -20 x $\frac{3}{16}$
10	710-3005	Hex Screw, $\frac{3}{8}$ -16 x 1.25
11	710-0642	Hex Washer Screw, $\frac{1}{4}$ -20 x .75
12	712-3004A	Hex Flange Lock Nut, $\frac{5}{16}$ -18
13	01000678	Jam Nut, 1.0-14
14	936-0133	Flat Washer, 1.25 x .411 x .100
15	01001864	Hex Washer Screw, #10-24 x .500
16	912-3027	Hex Flange Lock Nut, $\frac{1}{4}$ -20
17	01007972P	Kawasaki Engine, FJ180V
18	01008016	Fan Guard
19	01008763	Hex Washer Screw, $\frac{1}{4}$ -20 x .750
20	01008764	Hex Washer Screw, $\frac{5}{16}$ -18 x .750
21	01008877-0637	Clevis Pin
22	01009243	Hex Washer Screw, $\frac{3}{8}$ -16 x .875
23	01009260	Flange Bushing
24	01009302	V-Belt
25	01009314	Pulley, 3.75 x $\frac{7}{8}$
26	01009366	Rubber Grommet, .625 x .125
27	01009457	U-Bolt, $\frac{5}{16}$ -18 x 2.500 x 2.625
28	01009464	Engine Mounting
29	02004352	Flange Nut, $\frac{5}{16}$ -18
30	02004558	Riveted Pulley, 3.25
31	02004567-0637	Engine Idler Plate
32	680-00025-0637	Foot Stand Assembly
33	703-06867-0637	Spreader Fender, RH
34	703-07020-0637	Torsion Bracket
35	703-07084	Spreader Fender, LH
36	703-07086-0637	Spreader Cover Plate
37	703-07136-0637	Cable Mount Bracket
38	703-07191-0637	Isolator Mount Bracket
39	703-07538-0637	Engine Mount Plate
40	712-04063	Flange Lock Nut, $\frac{5}{16}$ -18
41	732-04629	Hook Extension Spring, .750 x 4.280
42	738-04162A	Shoulder Spacer, .8840 x .190

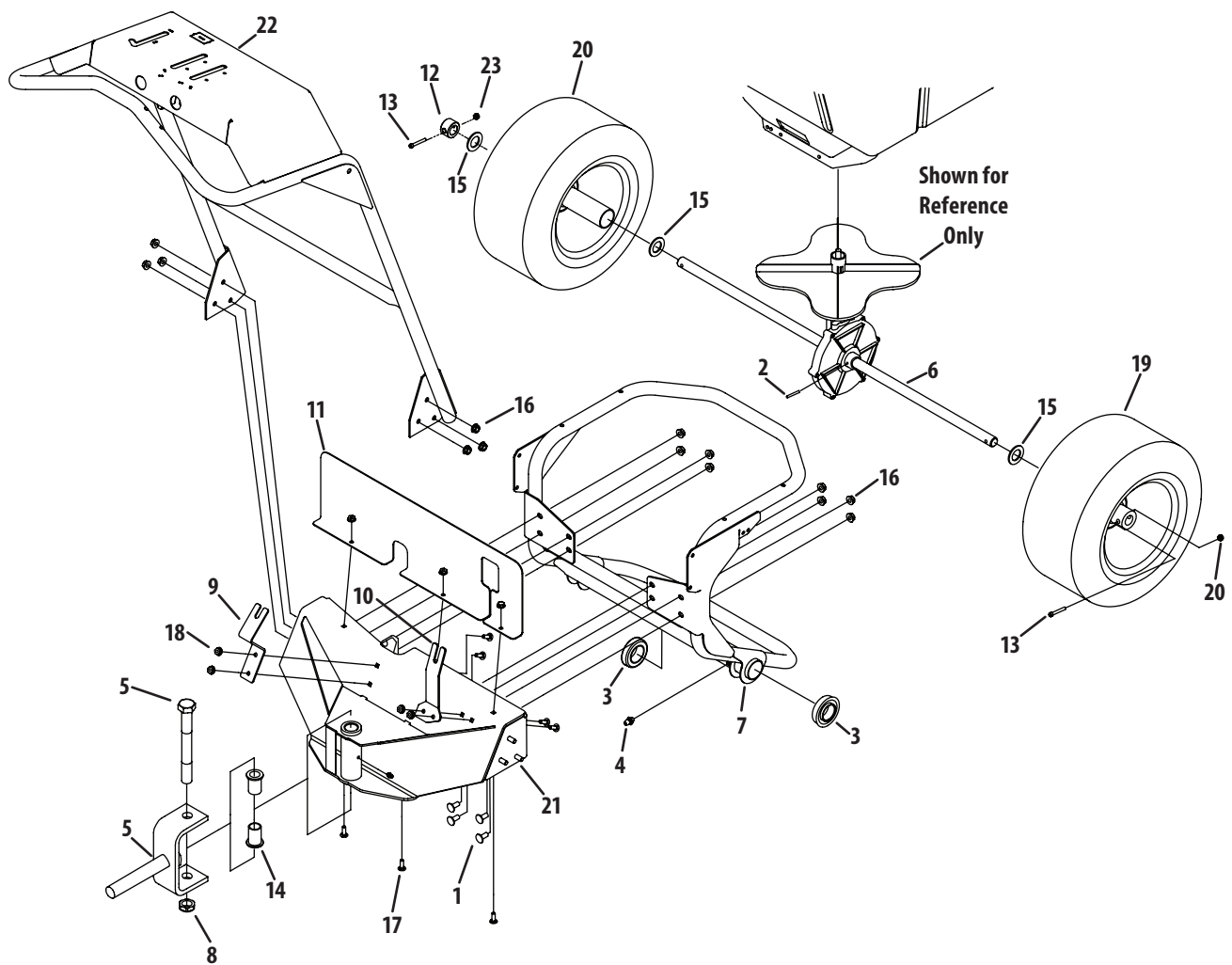


Ref.	Part Number	Description
1	00005530	Flat Washer, .406 x .812 x .062
2	01000128	Nylon Washer, ¼
3	00030322	Agitator Cam Assembly
4	00031167	Hex Screw, ¼-20 x 1.50
5	00035678	Hex Screw, 10-24 x ¾
6	00060027	Agitator Bearing Shaft
7	00060033	Flat Washer, ¼
8	712-0324	Nut, ¼-20
9	00060043	Control Rate Knob
10	00060044	Rate Control Arm
11	00060046	Screen Clip
12	00060049	Agitator Arm Assembly
13	00060050	Retainer Spring Clip, ⅜
14	01005631	Hex Washer Screw, #8 x ⅜
15	01006772	Numeric Rate Plate
16	01010116	Screen, 80-pound
17	02004176	80-pound Hopper Assembly
18	00060057	Machine Screw, ¼-20 x ⅞
19	00070027	Nut, #10-24
20	01005630	Flat Washer, #8
21	01009729	80-pound Hopper Extension
22	00030503	Deflector Arm Mount Spacer
23	00035030	Offset Bracket Deflector
24	00060029	Machine Screw, ¼-20 x 2
25	00060059	Nut, ¼-20
26	00061052	Cotter Pin, ⅛ x 1
27	00061053	Flat Washer, ⅜
28	00061066	Deflector Tube
29	01006253	Bracket/Tube Mount Deflector Lever
30	01006254	Tube Mount Deflector Weldment
31	02000775	Socket Screw, ¼-20 x .875

Ref.	Part Number	Description
32	00017288	Electric Pivot Lever Assembly
33	00020492	Slide Lever
34	00020511	Remote 3rd-Hole Wire Bracket
35	00060056	Nut, 8-32
36	00060061	Pivot Lever Rod
37	00060083	Lock Washer, #8
38	01004186	Service Clip Spring
39	01004539	Two-Hole Plate Weldment
40	01004955	Shut-Off Plate Clip
41	01004956	Shut-Off Plate Spring
42	01005632	Hex Washer Screw, #8 x ⅝
43	01006825	Shut-Off Plate
44	01009496	Hex Screw, 8-32 x ½
45	02004552	Bow-Tie Cotter Pin
46	00030317	Impeller
47	00030382	Impeller Shaft
48	00030384	Oil Gearset Seal
49	00030385	V Gearset Seal
50	00030415	Screw, #10
51	00030591	Gearset Housing
52	00030592	Gearset Cover
53	00030593	Gearset Cap
54	00030594	Gearset Bevel Gear
55	00030595	Pinion Gearbox Gear
56	00060022	Roller Pin, ⅛ x ⅝
57	00060069	Roller Pin, ⅛ x ⅞
58	01000129	Hex Washer Screw, #6 x ⅝
59	00009742	Calibration Gauge, Odd
60	00009746	Calibration Gauge, Even
61	00009941	Calibration Gauge Chain
62	00018628	Nylon Washer, ¼

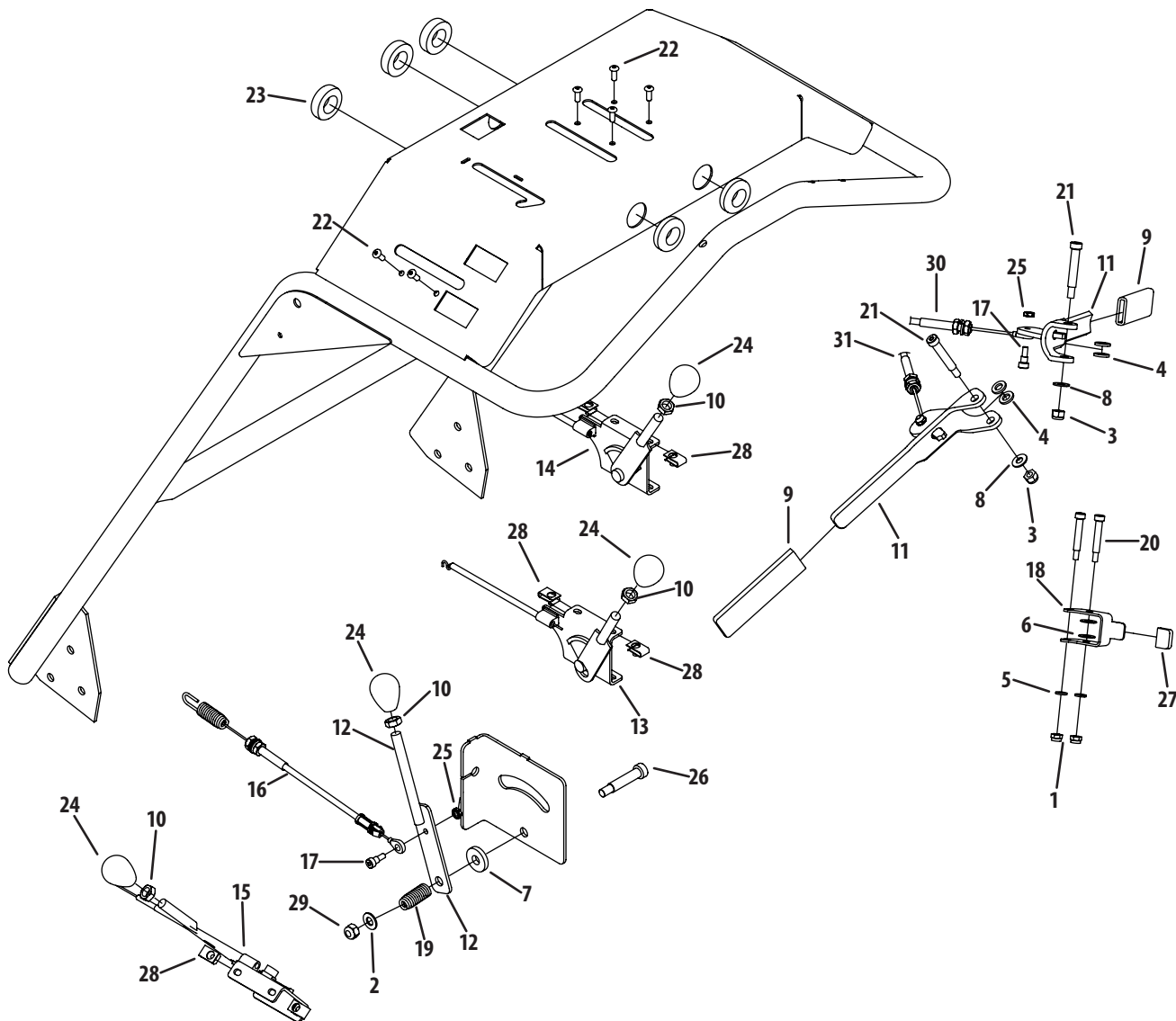


Ref.	Part Number	Description
1	00011459	Washer, .563 x 1.38 x .109
2	936-0329	Lock Washer, ¼
3	00012169	Washer, .344 x .688 x .063
4	712-04065	Nylock Nut, ⅜-16
5	00012187	Lug Nut, ½-20
6	00020508	Carriage Bolt, ⅝-18 x .75
7	00021961	E-Ring, #5133-75
8	00023796	Flat Washer, .750 x 1.50 x .120
9	00060017	Flat Washer, .06 x .776 x 1.25
10	936-0463	Flat Washer, ¼ x .630 x .052
11	712-3004A	Flange Lock Nut, ⅝-18
12	01001161	Hex Screw, ⅝
13	912-3027	Flange Lock Nut, ¼-20
14	914-0104	Internal Cotter Pin, .072 x 1.12
15	01003561	Hex Nut, M8X
16	01007935P	Hydro Transmission
17	01009148	Brake Lever Rod
18	01009149	Brake Lever
19	01009246	Wheel Hub Assembly
20	01009366	Rubber Grommet, .625 x 1.125
21	01009458	Key, ⅜ x ⅜ x 2
22	01009737	Shoulder Bolt, ⅝ x 1.00
23	01009827	Wheel Assembly, 18 x 6.50-8
24	01009829	Damper Assembly
25	01010129	Hex Screw, 12-24 x .50
26	703-07012-0637	Transmission Skid Plate
27	711-05108	Ferrule, .625 x .25
28	711-05207	Ferrule, .750 x .313
29	712-0161	Hex Lock Nut, #10-24
30	912-0429	Hex Lock Nut, ⅝-18
31	712-0711	Jam Nut, ⅜-24
32	732-04632	Extension Spring, .38 x .035 x 2.00
33	732-04636	Compression Spring, .340 x 1.38
34	936-0175	Spring Washer, .265 x .562 x .02
35	938-0380	Shoulder Bolt, .500 x .270 x ⅜
36	747-05070	Bypass Rod



Ref.	Part Number	Description
1	00031485	Carriage Bolt, $\frac{5}{16}$ -18 x $\frac{3}{4}$
2	00060019	Roller Pin, $\frac{5}{32}$ x 1- $\frac{1}{4}$
3	00060041	Axle Bearing, $\frac{3}{4}$ x 1- $\frac{3}{8}$
4	00060078	Grease Fitting, $\frac{1}{4}$ -28
5	01004185	Hex Screw, $\frac{3}{4}$ -16 x 6.50
6	01007833	Front Axle
7	01009341	Front Frame
NS	00060078	Grease Fitting
NS	00060041	Axle Bearing
8	01009255	Jam Nut, $\frac{3}{4}$ -16
9	01009256	Shut-Off Cable Bracket
10	01009257	Deflector Cable Bracket
11	01009304	Shield

Ref.	Part Number	Description
12	01009499	Shaft Collar, $\frac{3}{8}$ x 1- $\frac{1}{4}$
13	01009831	Socket Screw, 10-24 x 1.25
14	01009896	Flange Bushing
15	01009897	Flat Washer, .890 x 1.50 x .093
16	02004352	Flange Nut, $\frac{5}{16}$ -18
17	02004353	Carriage Bolt, $\frac{1}{4}$ -20 x $\frac{3}{4}$
18	02004354	Flange Nut, $\frac{1}{4}$ -20
19	634-04556	Wheel, 13 x 6.50-6
20	634-04557	Wheel, 13 x 6.50 x 6
21	680-00028	Pivot Bracket
22	680-00038-0637	Handle Assembly
23	712-0161	Hex Lock Nut, #10-24



Ref.	Part Number	Description
1	712-0161	Nut, #10-24
2	00011075	Flat Washer, $\frac{5}{16}$
3	00012152	Nut, $\frac{1}{4}$ -20
4	00012169	Flat Washer, $\frac{5}{16}$
5	00016771	Flat Washer, $\frac{3}{16}$
6	00060033	Flat Washer, $\frac{1}{4}$
7	00083192	Flat Washer, .390 x 1.0 x .180
8	936-0463	Flat Washer, $\frac{1}{4}$ x .630 x .0515
9	01001714	Control Sleeve
10	01002511	Nut, $\frac{3}{8}$ -16
11	01007997-0637	FNR Lever
12	01009483	On/Off Lever
13	01009169P	3rd-Hole Control
14	01009171	Remote Deflector Cable
15	01009172	Throttle Control
16	01009251	On/Off Cable

Ref.	Part Number	Description
17	01009322	Shoulder Bolt, $\frac{1}{4}$ x $\frac{1}{4}$
18	01009323-0637	Speed Control Lever
19	01009333	Compression Spring, .625 x .390 x 1.2
20	01009358	Shoulder Bolt, $\frac{1}{4}$ x 1- $\frac{1}{4}$
21	01009361	Shoulder Bolt, $\frac{5}{16}$ x 1- $\frac{1}{2}$
22	01009363	Hex Screw, 10-24 x $\frac{1}{2}$
23	01009365	Rubber Grommet, .750 x 1.375 x .1
24	01009369	Lever Knob, $\frac{3}{8}$ -16
25	01009377	Washer Nut, 10-24
26	01009459	Shoulder Bolt, $\frac{3}{8}$ x 1- $\frac{1}{2}$
27	01009482	Speed Control Lever Sleeve
28	01009931	Nut, 10-24
29	912-0429	Hex Lock Nut, $\frac{5}{16}$ -18
30	946-04566	Control Cable, 74.25
31	946-04567	Control Cable, 94.25

CUB CADET LLC MANUFACTURER'S LIMITED WARRANTY FOR COMMERCIAL LAWN APPLICATION EQUIPMENT

IMPORTANT: To obtain warranty coverage owner must present an original proof of purchase and applicable maintenance records to the servicing dealer. Please see the operator's manual for information on required maintenance and service intervals.

The limited warranty set forth below is given by Cub Cadet LLC with respect to new merchandise purchased or leased and used in the United States and/or its territories and possessions, and by MTD Products Limited with respect to new merchandise purchased or leased and used in Canada and/or its territories and possessions (either entity respectively, "Cub Cadet").

Cub Cadet warrants this product (excluding its *Normal Wear Parts, Batteries and Attachments* as described below) against defects in material and workmanship for a period of one (1) year commencing on the date of original retail purchase or lease and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship.

Normal Wear Parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days or one hundred (100) operation hours, whichever comes first, commencing on the date of original retail purchase or lease. Normal wear parts include, but are not limited to items such as: belts, blades, blade adapters, grass bags, rider deck wheels, seats, and tires.

Batteries have a one-year prorated limited warranty against defects in material and workmanship, with 100% replacement during the first three months. After three months, the battery replacement credit is based on the months remaining in the twelve (12) month period dating back to the original date of original sale or lease. Any replacement battery will be warranted only for the remainder of the original warranty period.

Attachments — Cub Cadet warrants attachments for this product against defects in material and workmanship for a period of one (1) year, commencing on the date of the attachment's original purchase or lease. Attachments include, but are not limited to items such as: grass collectors and mulch kits.

This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by Cub Cadet for use with the product(s) covered by this manual will void your warranty as to any resulting damage. In addition, Cub Cadet may deny warranty coverage if the hour meter, or any part thereof, is altered, modified, disconnected or otherwise tampered with.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE AND APPLICABLE MAINTENANCE RECORDS, through your local authorized service dealer. To locate the dealer in your area:

In the U.S.A.:

Check your Yellow Pages, or contact Cub Cadet LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, call 1-877-282- 8684 or log on to our website at www.cubcadet.com.

In Canada:

Contact MTD Products Limited, Kitchener, ON N2G 4J1, call 1-800-668-1238 or log on to our website at www.mtdcanada.com.

Without limiting the foregoing, this limited warranty does not provide coverage in the following cases:

- a. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
- b. Service completed by someone other than an authorized service dealer.
- c. Cub Cadet does not extend any warranty for products sold or exported outside of the United States and/or Canada, and their respective possessions and territories, except those sold through Cub Cadet's authorized channels of export distribution.
- d. Replacement parts and/or accessories that are not genuine Cub Cadet parts.
- e. Transportation charges and service calls.

There are no implied warranties, including without limitation any implied warranty of merchantability or fitness for a particular purpose. No warranties shall apply after the applicable period of express written warranty above. No other express warranties beyond those mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Cub Cadet. The exclusive remedy is repair or replacement of the product as set forth above. The terms of this warranty provide the sole and exclusive remedy arising from the sale and/or lease of the products covered hereby. Cub Cadet shall not be liable for any incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW LOCAL LAWS RELATE TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights that vary in different jurisdictions.

**Cub Cadet LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019, Phone: 1-877-282-8684
MTD Products Limited, Kitchener, ON N2G 4J1, Phone: 1-800-668-1238**