# OWNER'S MANUAL REAR MOUNTED SIDE DISCHARGE GRASS CATCHER 14016

# - UNIT PARTS AND SERVICE -

This manual contains instructions for safety, assembly and maintenance. Read this manual carefully and completely so that you will know proper assembly, use and care of your unit. Also fill in and mail the registration card packed with the unit. For service other than covered in this manual, contact an authorized service dealer. A nationwide parts and service organization has been established to provide locally available parts and service. A list of authorized parts distributors has been included in this manual. When ordering repair parts, always give the following information: 1. The Part Name; 2. The Part Number; 3. The Quantity desired; 4. The Full (eight digit) Model Number of the unit. The model number will be found on a plate attached to the unit.



Look for this symbol. It means - ATTENTION! BECOME ALERT! A HAZARD TO OPERATOR, BYSTANDER, PROPERTY OR EQUIPMENT MAY EXIST.

Garden Way, Inc. 102nd & 9th Avenue Troy, New York 12180

Part No.1830425 47/91

elerence No.323914

Price \$5.00

Printed in U.S.A

# REPAIR PARTS

ALWAYS GIVE THE FOLLOWING INFORMATION WHEN ORDERING REPAIR PARTS:

1. The PART NUMBER; 2. The PART NAME; 3. QUANTITY DESIRED; 4. The MODEL NUMBER (As shown on Model Plate).

SEND PART ORDERS AS PER INSTRUCTIONS ON THE FRONT PAGE.

YOUR UNIT IS RIGHT HAND (RH) OR LEFT HAND(LH) AS YOUR STAND BEHIND IT.

DO NOT USE KEY NUMBERS WHEN ORDERING REPAIR PARTS, ALWAYS USE PART NUMBERS.

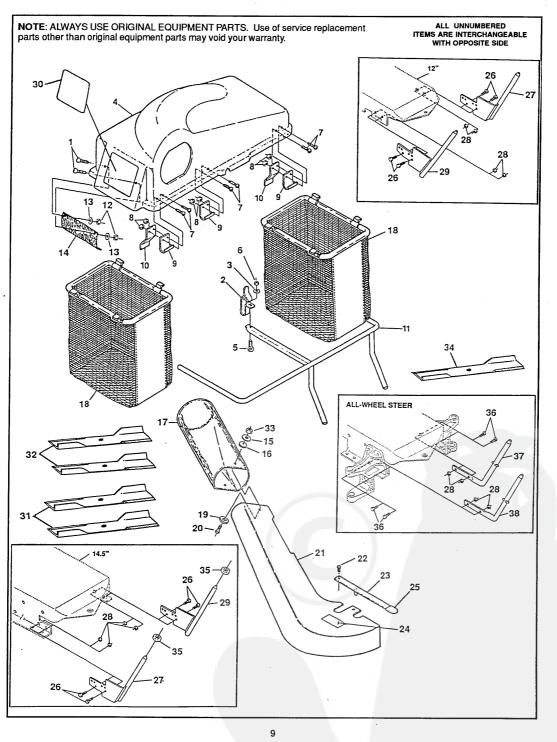
All replacement parts will be supplied in current production colors or in a neutral color.

A handling fee is applicable to small parts orders.

Key No.	Part No.	Description	Reference Number
1	1830367	Screw, SI Fi Hd, No. 10-24 x 5/8 ln.	57034
2	1830369	Latch, Bagger	12346
3	1830186	*Flatwasher, 11/32 In.	120393
4	1830370	Cover	306944
5	1830212	*Screw, 5/16-18 x 5/8 ln.	180075
6	1830005	Locknut, 5/16-18 Thd.	1498
7	1830371	Screw, SI Rd Hd. 1/4-20 x 5/8 ln.	55686
8	1830221	*Nut, Keps, 1/4-20 Thd.	271172
9	1830372	Hinge, Cover	300278
10	1830374	Retainer Strap	300624
11	1830375	Support Assembly	1253
12	1830220	Nut, Keps, No. 10-24	271166
13	1830376	Flatwasher, 13/64 In.	1501
14	1830377	Screen	300115
15	1830377	Flatwasher, 9/32 In.	57626
16	1830376	Rubber Grommet	57506
17	1830383	Upper Tube Assembly	57667
18	1830390	Bag	58283
19	1830390	*Flatwasher, 5/16 In.	120386
20	1830211	*Screw, Hex Hd, 1/4-20 x 3/4 ln.	180020
21	1830392	Chute, Transition	314842
22	1830041	Screw, Taptite, 5/16-18 x 1/2 ln.	35497
23	1830393	Lever, Latch	9137
23	1830396	Decal, Transition Chute	306489
25	1830397	Tab	42348
26	1830214	*Screw, Hex Hd, 5/16-18 x 1 In.	180079
27	1830398	Bracket Assy, R. H.	311186
28	1830088	Locknut, Wide Flange, 5/16-18 Thd.	55273
29	1830400	Bracket Assy, L. H.	311187
30	1830408	Decal, Cover	306490
31	1830408	Blade, High Lift, (39" Deck)	306932
32	1830412	Blade, High Lift, (39 Deck)	306931
			1502
33 34	1830008 1830417	*Locknut, 1/4-20 Thd.	9248
		Blade, Medium Lift (45" Deck)	312462
35	1830418	Spacer	180083
36	1830426	Screw, 5/16-18 x 1-1/2 ln.	180083
~-	1000400	(For All-Wheel Steer/Hydro Models)	314045
37	1830423	Rod, Mounting R.H.	314045
	1000101	(For All-Wheel Steer/Hydro Models)	314046
38	1830424	Rod, Mounting L.H.	314046
	1000105	(For All-Wheel Steer/Hydro Models)	317077
39	1830425	Owner's Manual (English)	317077

<sup>(\*)</sup> Standard Hardware Items - May be Purchased Locally.

# REAR MOUNTED, SIDE DISCHARGE GRASS CATCHER MODEL 14016





## **OPERATIONAL PRECAUTIONS**



#### THESE INSTRUCTIONS ARE FOR YOUR PROTECTION. PLEASE READ THEM CAREFULLY.

- Know the controls and how to stop quickly. Read this Owner's Manual and review Riding Mower Manual. Wear safety glasses or eye shields while assembling or operating the riding mower with grass catcher attachment.
- When using the riding mower with grass catcher attachment:
  - A. DO NOT operate the riding mower without the entire grass catcher assembly or discharge chute deflector in place.
  - Never make any adjustments or repairs while the engine is running.
  - C. Shut off engine when removing grass from grass catcher or unplugging mower chute or catcher tube.
  - D. DO NOT operate riding nower with grass catcher assembly while barefooted. ALWAYS wear substantial footwear, preferably steel-toed shoes. DO NOT wear loose fitting clothing that could get caught in any moving parts.
  - E. ALWAYS keep clear of discharge chute/tube or any moving parts while engine is running.
  - F. Mow only in daylight or good artificial light.
- ALWAYS place the mower clutch lever in disengage position when not cutting grass, such as when crossing a rock or gravel driveway or roadway and

6 - 1/4 x 5/8 inch Slot Head Screws

2 - 1/4 x 3/4 inch Hex Head Screws

6 - 1/4 inch Keps Nuts (star washer attached)

- when transporting the riding mower with grass catcher attachment.
- Disengage mower blades, stop engine, remove ignition key and set parking brake before leaving operator's position.
- Disengage power to mower blades, stop engine, remove ignition key, set parking brake and disconnect spark plug wire before making any repairs, adjustments or cleaning the riding mower or grass catcher attachment.
- Check grass bags frequently for wear and/or deterioration. Replace worn or damaged bags.
- DO NOT run engine indoors. Exhaust fumes contain CARBON MONOXIDE which is an ODORLESS and DEADLY GAS.
- Take all possible precautions when leaving the riding mower unattended, such as disengaging the mower clutch lever, shifting into neutral, setting parking brake, stopping engine and removing Ignition key.
- NEVER store grass catcher with grass clippings in the catcher bags. Even a small pile of grass clippings can create enought heat to start a fire.
- If grass catcher attachment will be used on other than level ground, the use of a front weight box is recommended.

2 - 7/16 inch Wrenches (or adjustable wrenches)

1 - Hammer (plastic or rawhide preferred)

1/2 inch Wrenches (or adjustable wrenches)

INFORMATION			
Record the following information about your unit so that you will be able to provide it in case of loss or theft.  MODEL NUMBER: (Enter complete 8 digit number from model plate on unit)			
PURCHASE DATE: / / CODE NO.: SERIAL NO.:			
TELEPHONE:			
<ul> <li>2 - 1/4 inch Locknuts</li> <li>1 - 5/16 inch Locknut</li> <li>4 - 5/16 x 1 inch Hex Head Screws</li> <li>4 - 5/16 x 1-1/2 inch Hex Head Screws</li> <li>1 - 5/16 x 5/8 inch Hex Head Screw</li> <li>1 - 5/16 x 1/2 inch Hex Washer Head Self-Tap Screw</li> <li>4 - 5/16 inch Wide Flange Locknuts</li> <li>2 - 9/32 inch Flatwashers</li> <li>2 - 5/16 inch Flatwashers</li> <li>1 - 11/32 inch Flatwashers</li> </ul>			
The parts bag may contain more fasteners than are required for your kit.  HOW TO MEASURE SCREW SIZE  (5/16 x 1½ INCH)  LENGTH  TOOLS REQUIRED FOR ASSEMBLY			

Screwdriver

# **ASSEMBLY**



# **DANGER**



This riding mower and grass catcher can be dangerous if carelessly used.

Read Operator's Manual thoroughly before operating machine.

Always wear safety glasses or eye shields when assembling or operating machine.

DO NOT carry passengers at any time.

Keep hands, feet, hair and loose clothing away from moving parts while engine is running.

DO Not allow children or young teenagers to operate or be near machine while it is operating.

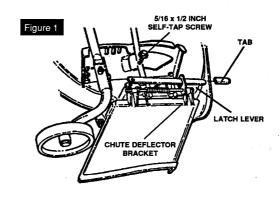
Your riding mower and grass catcher have a right and left side as you face forward while seated in operator's seat.

If you have operated your riding mower prior to installing grass catcher, remove any accumulation of grass clippings from mower deck before installing kit.

#### **MOWER DECK ASSEMBLY**

' 1. Place latch lever (figure 1) through hole in front of chute deflector bracket (with stud on lever down) and secure at back end with a 5/16 x 1/2 inch self-tap screw. **NOTE**: Some riding mowers may have this lever already installed.

- 2. Place the plastic tab (figure 1) onto front end of latch lever.
- 3. Remove mower deck and remove blades (see riding mower manual).
- 4. Install hi-lift blades (18 inch blades on 36 and 45 inch deck; 19-1/2 inch blades on 39 inch deck) and mid-lift blade (9-1/2 inch on 45 inch deck at 90° angle over 18-inch blade).
  - 5. Reinstall mower deck



Your grass catcher kit includes a set of brackets (2) and a set of rods (2) for use in mounting the catcher to your riding mower. Following is information and illustrations for their installation on various units.

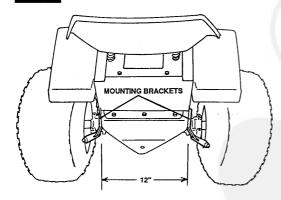
#### TO INSTALL MOUNTING BRACKETS

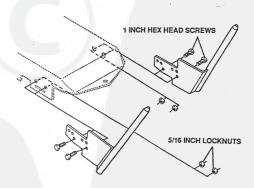
Assembly will be easier if rear of riding mower is blocked up with rear wheels removed.

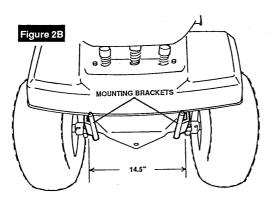
- 1. Place a mounting bracket on each side of main frame (rear).
- 2. Attach each mounting bracket to side of main frame, according to frame size, with two  $5/16 \times 1$  inch hex head screws and two 5/16 inch locknuts as shown in figures 2A and 2B..

NOTE: Measure the width of the rear frame to determine the frame size on your riding mower. Arms on mounting brackets attached to rear of small frame (measuring 12 inches) should bend slightly outward from main frame (figure 2A). Arms of mounting brackets attached to rear of large frame (measuring 14-1/2 inches) should bend slightly inward toward center of main frame (figure 2B). Brackets should be mounted as close to the tractor as possible for 18" and 20" diameter tires. Move brackets away from tractor for 23" tires, and use spacers.





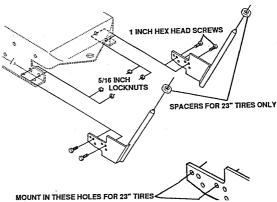




#### TO INSTALL MOUNTING RODS

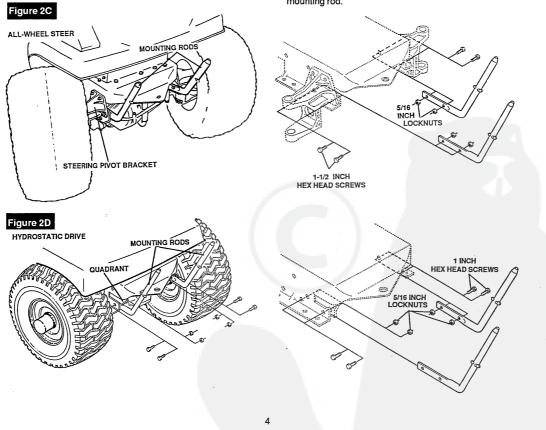
Mounting rods are for use on large frame models with allwheel steering and hydrostatic drive. Assembly will be easier if rear of riding mower is blocked up with rear wheels removed.

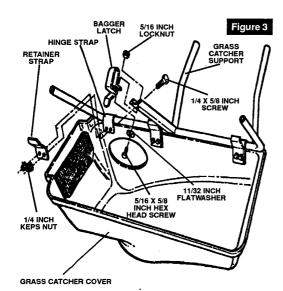
- Remove hex locknuts from the lower holes of the steering pivot brackets attached to the main frame (rear) of the all-wheel steering unit (figure 2C). Align holes in the steering pivot brackets and main frame with holes in the mounting rod.
- 2. Attach each mounting rod to the inside of the main frame and through lower holes of the pivot bracket of the all-



wheel steering unit with two  $5/16 \times 1-1/2$  inch hex head screws and two 5/16 inch locknuts (figure 2C).

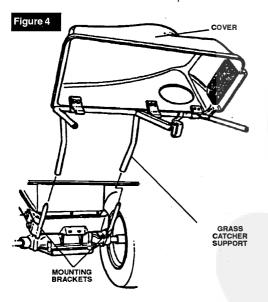
- 3. Remove the hex head screw, nut and spacer connecting the speed control quadrant to the left side of the main frame (rear) of the hydrostatic drive unit. Push left mounting rod into space and align holes on the rod with holes in the quadrant and main frame (figure 2D).
- 4. Install each mounting rod inside the main frame with two  $5/16 \times 1$  inch hex head screws and two 5/16 inch locknuts (figure 2D). NOTE: Since removed spacer and mounting rod require the same space, the screw and locknut removed from the left rear main frame may be used to install left rear mounting rod.



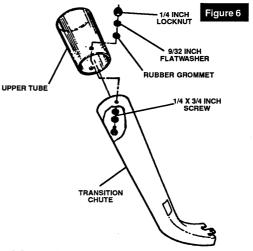


#### **GRASS CATCHER COVER ASSEMBLY**

- 1. Place bagger latch on end of center arm of grass catcher support (figure 3). Align hole in bagger latch with hole in center arm of grass catcher support.
- 2. Secure in place with 5/16 x 5/8 inch hex head screw, 11/32 inch flatwasher and 5/16 inch locknut (figure 3).
  - 3. Lay grass catcher cover assembly upside down.
- 4. Place grass catcher support into ledge inside grass catcher cover assembly.
- 5. Attach three cover hinge straps and two retainer straps (on outside hinges) to cover and support assembly with six 1/4 x 5/8 inch screws and six 1/4 inch keps nuts.

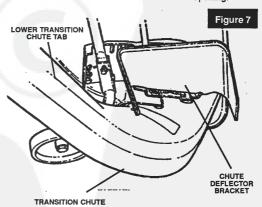


- 6. Turn cover assembly over and mount onto mounting brackets as shown in figure 4.
- 7. Pivot cover assembly toward front of grass catcher attachment and install grass bag assemblies as shown in figure 5. NOTE: Grass bags must be installed with solid panel in toward front of grass catcher.
- 8. Pivot cover assembly toward rear of grass catcher attachment and hook latch strap to latch pin (figure 5).



#### **DISCHARGE CHUTE ASSEMBLY**

- 1. Place a rubber grommet into each large hole in upper tube (figure 6).
- 2. Attach upper tube to transition chute, as shown in figure 6, with two  $1/4 \times 3/4$  inch hex head screws (from inside of transition chute), two large 9/32 inch flatwashers and two 1/4 inch locknuts.
- 3. Place upper end of transition chute assembly into hole in front of grass catcher cover assembly.
- 4. Slide tab on lower end of transition chute under center of chute deflector bracket (figure 7) until stud on latch lever snaps into hole in end of tab. NOTE: Back side of transition chute should be on inside of deck opening and front side of transition chute should be on outside of deck opening.



# **OPERATION**



### **DANGER**



OPERATE MOWER WITH COMPLETE BAGGING ATTACHMENT IN PLACE.

SHUT OFF ENGINE BEFORE OPENING COVER OR EMPTYING GRASS BAGS.

OBJECTS MAY BE THROWN FROM DISCHARGE TUBE.

DO NOT REACH INTO DISCHARGE TUBE WHILE ENGINE IS RUNNING;

The operation of this riding mower and grass catcher can re-

sult in objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating a riding mower. We recommend standard safety glasses, or Wide Vision safety mask for over spectacles.

Get to know your riding mower and its

Get to know your riding mower and its controls. Be sure you (or any other operator) have read and understood the **Operational Precautions** Listed on page 2 of this manual and in your riding mower operator's manual.

Avoid sharp turns at high speed and uphill or downhill turns. Operate mower carefully. Be especially cautious on hills. When riding down inclines, keep shift control in low speed. Use brake for fast stops on hill.

If grass clippings are going to be bagged and hauled away, you may line grass bag assemblies with a 30 x 36 plastic trash bag. Roll top of bag around frame of grass bag to hold in place during collection.

#### **OPERATION (Rider with Catcher)**

Take a comfortable position on the riding mower and start the riding mower engine. After engine warmup, depress brake-clutch pedal and move shift control lever to desired forward gear. Release brake-clutch pedal slowly and riding mower will move forward. Until you get the feel of the machine, stay in the low speed position. With mower blades stopped, make your first run in a large, open, level area. Learn to start, stop and change direction in this area.

Stop engine before leaving operator's position.

The engine should be run at fast throttle for proper grass cutting and collecting of clippings, and ground speed controlled by shift lever position. Forward speed of the riding mower is controlled by the quantity of grass being mowed. The more grass that must be cut, the slower the speed forward should be. When cutting light grass, the forward speed can be increased. By observing the collecting action of your mower, you can determine how fast you can travel.

To mow heavy growth or on rough ground, set mower at maximum height. After growth is cleared, reduce cutting height as desired.

Height-of-cut should not be set too low on thick, lush lawns, or grass may die. If height is too low, the deck wheels may sink into the lawn, causing the mower deck to drop down on the grass and reduce the discharging effect of the cutting blade. New grass should be cut in the afternoon when it is dry. Never cut wet grass. Wet grass will pack under mower deck and in transition chute and will not discharge properly.

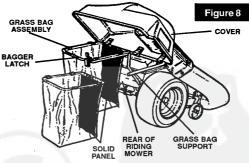
KEEP EQUIPMENT CLEAN. Grass clippings may pack under the mower chassis and in discharge chute assembly due to the internal moisture content of the grass. This accumulation of cut grass should be removed after each mowing.

- 1. Disconnect spark plug wire, remove ignition key, set parking brake on riding mower.
- Scrape accumulation off underside of mower deck with a putty knife or similar tool. Cleaning of the underside of mower housing is easier if mower deck is removed. See Mower Deck Removal paragraph in Maintenance section of riding mower operator's manual.
- Remove discharge chute assembly from mower deck and grass catcher cover assembly and flush grass clippings with water
- 4. Remove grass catching bags and flush grass clippings from cover assembly with water.

#### TO EMPTY GRASS CATCHER BAG

Check grass catcher bags at frequent intervals while mowing. Bag should be emptied as soon as clippings reach top of bag and after each use. To empty bag, proceed as follows:

- 1. Move mower clutch lever to DISENGAGE position and shift lever to NEUTRAL position.  $\label{eq:level} % \begin{center} \end{center} % \begin{center} \en$ 
  - 2. Stop engine and set parking brake on riding mower.
  - 3. Unlock latch strap from latch rod. (figure 8).
- 4. Pivot cover assembly toward front of grass catcher and lift bag assemblies from support.
  - 5. Remove all clippings from bags.





#### DANGER



NEVER store grass catcher with grass clipping in the catcher bags. Even a small pile of grass clippings can create enough heat to start a fire.

- 6. Reinstall bag assemblies with the solid panel next to the rear of the riding mower
- 7. Pivot cover assembly toward rear of grass catcher and hook bagger latch over edge of cover.

A

DANGER



DO NOT OPERATE MOWER UNLESS ENTIRE GRASS CATCHER ATTACHMENT IS IN PLACE.

#### TO CLEAR PLUGGED DISCHARGE CHUTE

Your discharge chute may become plugged with grass clippings due to over-filling grass catcher or cutting grass that is too long or wet. To unplug chute, proceed as follows:

- 1. Move mower clutch lever to DISENGAGE position and shift lever to neutral.
  - 2. Stop engine and set parking brake.



# **DANGER**



Blades will not stop immediately. Keep hands and feet from under mower and away from the discharge chute.

- 3. Disconnect spark plug wire.
- 4. Lift front end of latch lever and pull transition chute away from mower deck.
- 5. Remove chute assembly from grass catcher cover assembly
  - 6. Shake grass clippings from chute assembly.
- 7. Remove clippings from mower deck discharge chute.
- 8. Re-attach chute assembly to grass catcher and mower deck in reverse order of removal.
  - 9. Reconnect spark plug wire.

# **STORAGE**

The grass catcher should be immediately prepared for storage at the end of the season. To prepare grass catcher for storage, proceed as follows:

- 1. Remove and clean chute assembly.
- 2. Remove and empty grass bag assemblies.



# **DANGER**



NEVER store grass catcher with grass clippings in the bags. Even a small pile of grass clippings can create enough heat to start a fire.

- 3. Clean the grass catcher cover thoroughly.
- 4. Inspect the grass catcher and mower deck assemblies for worn or damaged parts. Tighten all loose hardware.
- 5. Check grass bags for wear and/or deterioration. Replace worn or damaged bags.
- 6. Store the riding mower and grass catcher in a clean, dry area and cover for additional protection. **NOTE**: The grass catcher can be easily lifted off the riding mower to reduce storage space.

Bolens reserves the right to change specifications, add improvements or discontinue the manufacture of any of its equipment without notice or obligation to purchases of its equipment.

Bolen's approval of the use of attachments manufactured by allied manufacturers is limited to assurance that such will not void Bolens warranty on the Bolens equipment to which the allied manufacturer attachments are adapted. The responsibility for the design, performance, durability, safety in operation, service repair availability, and warranty obligation remain with the allied manufacturer.

Bolens specifically excludes from its warranty obligation all such allied manufactured attachments.

Bolens warranty will be voided if not approved attachments are adapted to use with Bolens equipment and are so used.

#### LIMITED WARRANTY

#### I. PRODUCTS COVERED

This warranty applies to the Bolens® branded SX120 tractor, to include its attachments and/or accessories sold as non commercial residential - commercial - institutional - industrial - rental or demonstrator application.

#### II. PRODUCT WARRANTY: NON COMMERCIAL RESIDENTIAL: ONE YEAR LIMITED WARRANTY

All new Bolens® equipment specified above is warranted by Garden Way, Inc. to the original retail purchaser only, to be free from defects in material and workmanship, under normal use and service for a period of one year from date of purchase. Engines manufactured by Briggs & Stratton, Kohler and Tecumseh or transmissions manufactured by Peerless will also be warranted for this one year warranty period through the authorized repair stations of their respective manufacturers.

EXCLUSIONS - The following items are not covered under the second and third year of this extended home use limited warranty: Belts, Hoses, Seats, Batteries, Blades, Knives, Tines, Filters, Tires, Wheels. Paint and Appearance items, Light Bulbs, and similar items which are normally replaced through periodic maintenance.

# III. PRODUCT WARRANTY: COMMERCIAL - INDUSTRIAL - RENTAL - DEMONSTRATOR: THIRTY DAYS LIMITED WARRANTY

The Commercial, Institutional, Industrial, Rental and Demonstrator Limited Warranty covering defects on material an workmanship will be for a period of thirty (30) days, from date of purchase on all Bolens® units and their manufactured attachments. This warranty applies to the original purchaser only.

Engines manufactured by Briggs & Stratton, Kohler and Tecumseh, and transmissions manufactured by Peerless will also be warranted for this one (1) year warranty period through the authorized repair stations of their respective manufacturers.

#### IV. GENERAL INFORMATION

Garden Way, Inc.'s obligation under this warranty is limited to the repair or replacement, at its option, by an authorized Bolens equipment dealer of any part found to be defective in material or workmanship, without charge for parts and labor.

In order to obtain warranty service, the owner is responsible for:

- 1) Providing proof of purchase documentation, ownership registration or copy of bill of sale.
- Informing any authorized Bolens equipment dealer of the defect and making the product available for repair. (Charges for pick-up, delivery and service calls are not covered by this warranty).

This warranty does not cover defects, malfunctions or failures caused by:

- 1) Use of unauthorized accessories or attachments.
- 2) Lack of reasonable and necessary maintenance as specified in the "Operation and Safety Instructions".
- 3) Misuse, accidents or normal wear.

DISCLAIMER OF CONSEQUENTIAL DAMAGES: BOLENS CORPORATION SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSE OF ANY KIND, INCLUDING BUT NOT LIMITED TO COST OF EQUIPMENT RENTAL, LOSS OF PROFITS OR COST OF HIRING SERVICES TO PERFORM TASKS NORMALLY PERFORMED BY THE EQUIPMENT.

LIMITATION OF IMPLIED WARRANTIES: ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO A PERIOD OF ONE YEAR (90 DAYS IF PRODUCT IS PURCHASED FOR COMMERCIAL, INSTITUTIONAL, INDUSTRIAL, RENTAL OR DEMONSTRATOR USE) FROM THE DATE OF SALE.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON HOW LONG IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Garden Way, Inc. 102nd & 9th Avenue Troy, New York 12180