



**Count on it.**

**Operator's Manual**

**TopDresser 1800**  
**for Workman Heavy-Duty Utility Vehicle**  
Model No. 44225—Serial No. 31000001 and Up

This product complies with all relevant European directives, for details please see the separate product specific Declaration of Conformity (DOC) sheet.



**Figure 2**

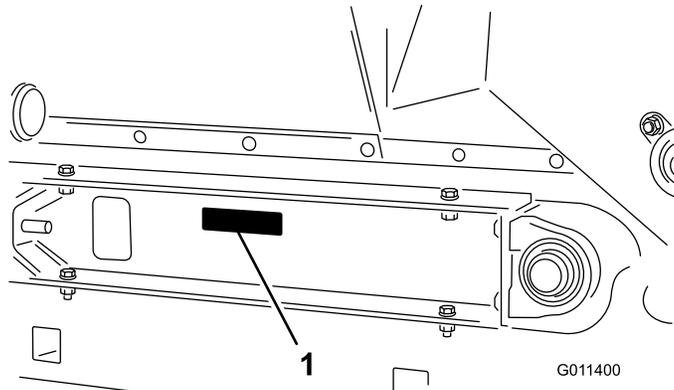
# Introduction

This TopDresser is mounted to a Workman Utility Vehicle and is intended to be used by professional, hired operators in commercial applications. It is primarily designed for metering and dispersing materials, under a range of moisture conditions, without clogging or drastically affecting the dispersion.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

You may contact Toro directly at [www.Toro.com](http://www.Toro.com) for product and accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.



**Figure 1**

1. Model and serial number location

<b>Model No.</b> _____
<b>Serial No.</b> _____

This manual identifies potential hazards and has safety messages identified by the safety alert symbol (Figure 2), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.

1. Safety alert symbol

This manual uses 2 other words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

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# Safety

## Before Operating

- Read and understand the contents of this Operator's Manual before operating the machine. Become familiar with all controls and know how to stop quickly.
- Never allow children to operate the machine. Do not allow adults to operate the machine without proper instructions. Only trained and authorized persons should operate this vehicle.
- Never operate the machine when under the influence of drugs or alcohol.
- Keep all shields and safety devices in place. If a shield, safety device or decal is illegible or damaged, repair or replace it before operation is commenced.

**Note:** The front 1/3 area of the Workman cargo zone must be covered by a 1/3 attachment or shield when using the TopDresser 1800.

- Tighten any loose nuts, bolts and screws to assure machine is in safe operating condition. Make sure TopDresser mounting pins, pivot pins and hydraulic cylinder pins are in place and secure.
- Do not modify this equipment in any manner.
- Do not operate machine while wearing sandals, tennis shoes, sneakers or shorts. Also, do not wear loose fitting clothing which could get caught in moving parts. Always wear long pants and substantial shoes. Wearing safety glasses, safety shoes and a helmet is advisable and required by some local ordinances and insurance regulations.

## While Operating

- Do not run the engine in a confined area without adequate ventilation. Exhaust fumes are hazardous and could possibly be deadly
- This vehicle is designed to carry only You, the operator and one passenger in the seat provided by the manufacturer. NEVER carry passengers on the machine and keep everyone away from the areas of operation.
- Make sure all hydraulic fittings are tight and all hydraulic hoses are in good condition before operating this unit.
- Keep hands and feet out of hopper when unit is operating or engine is running on vehicle.
- Operator and passenger should remain seated whenever the vehicle is in motion.

- Lightning can cause severe injury or death. If lightning is seen or thunder is heard in the area, do not operate the machine; seek shelter.
- Using the machine demands attention. Failure to operate vehicle safely may result in an accident, tip over of vehicle and serious injury or death. Drive carefully. To prevent tipping or loss of control:
  - Use extreme caution, reduce speed and maintain a safe distance around sand traps, ditches, creeks, ramps, any unfamiliar areas or other hazards.
  - Watch for holes or other hidden hazards.
  - Use caution when operating vehicle on a steep slope. Normally travel straight up and down slopes. Reduce speed when making sharp turns or when turning on hillsides. Avoid turning on hillsides whenever possible.
  - Use extra caution when operating vehicle on wet surfaces, at higher speeds or with a full load. Stopping time will increase with a full load. Shift into a lower gear before starting up or down a hill.
  - Avoid sudden stops and starts. Do not go from reverse to forward or forward to reverse without coming to a complete stop.
  - Do not attempt sharp turns or abrupt maneuvers or other unsafe driving actions that may cause a loss of vehicle control.
  - Before backing up, look to the rear and assure no one is behind. Back up slowly.
  - Watch out for traffic when near or crossing roads. Always yield the right of way to pedestrians and other vehicles. This vehicle is not designed for use on streets or highways. Always signal your turns or stop early enough so other persons know what you plan to do. Obey all traffic rules and regulations.
  - Always watch out for and avoid low over hangs such as tree limbs, door jambs, over head walkways, etc. Make sure there is enough room over head to easily clear the vehicle and your head.
  - If ever unsure about safe operation, STOP WORK and ask your supervisor.
- When loading with sand, distribute load evenly. Operate vehicle with extra caution when the hopper is full of sand. Keep load balanced to prevent it from shifting.

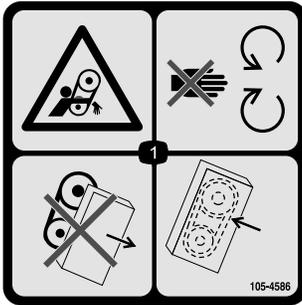
# Maintenance

- Before servicing or making adjustments to the TopDresser, stop engine of Workman, set parking brake and remove key from engine to prevent accidental starting of the engine.
- Perform only those maintenance instructions described in this manual. If major repairs are ever needed or assistance is desired, contact an Authorized TORO Distributor.
- To reduce potential fire hazard, keep the engine free of excessive grease, grass, leaves and accumulations of dirt.
- Be sure machine is in safe operating condition by keeping nuts, bolts and screws tight.
- Make sure all hydraulic line connectors are tight, and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- Keep body and hands away from pin hole leaks in hydraulic lines that eject high pressure hydraulic fluid. Use cardboard or paper to find hydraulic leaks. Hydraulic fluid escaping under pressure can penetrate skin and cause injury. Fluid accidentally injected into the skin must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.
- Before disconnecting or performing any work on the hydraulic system, all pressure in system must be relieved by stopping engine and placing the remote hydraulic valve in the float detent position.
- If the engine must be running to perform a maintenance adjustment, keep hands, feet, clothing and other parts of the body away from the engine and other moving parts.
- To ensure optimum performance and safety, always purchase genuine TORO replacement parts and accessories to keep the Toro all TORO. NEVER USE “WILL-FIT” REPLACEMENT PARTS AND ACCESSORIES MADE BY OTHER MANUFACTURERS. Look for the TORO logo to assure genuineness. Using unapproved replacement parts and accessories could void the warranty of The Toro Company.

# Safety and Instructional Decals

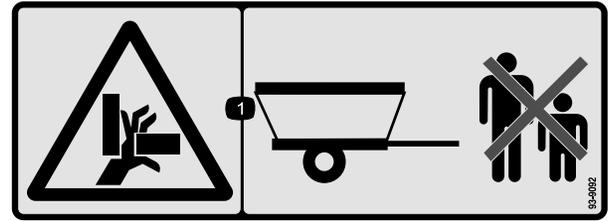


Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.



**105-4586**

1. Entanglement hazard, belt—stay away from moving parts. Do not operate the machine with the shields or guards removed; keep the shields and guards in place.



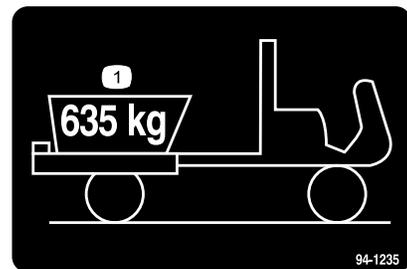
**93-9092**

1. Crushing hazard of hand—keep bystanders a safe distance from the machine.



**93-9084**

1. Lift point
2. Tie-down point



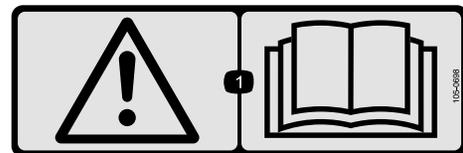
**94-1235**

1. The maximum load is 635 kg.



**99-0015**

1. Entanglement hazard, conveyor and brush—keep bystanders a safe distance from the machine.



**105-0698**

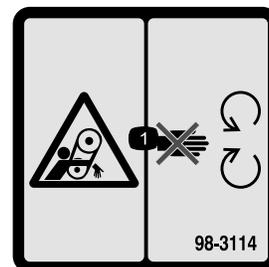
Apply over decal 105-0707 for CE compliance

1. Warning—read the *Operator's Manual*.



**106-7750**

1. Entanglement hazard, conveyor and brush—keep bystanders a safe distance from the machine and do not carry passengers.



**98-3114**

1. Entanglement hazard—stay away from moving parts; keep all guards in place.

# Setup

## Loose Parts

Use the chart below to verify that all parts have been shipped.

Procedure	Description	Qty.	Use
<b>1</b>	No parts required	–	Remove the 2/3 or Full Bed
<b>2</b>	Attachment Bracket Clevis Pin Lynch Pin Capscrew, 1/2 x 1 inch Flatwasher Locknut, 1/2 inch Spacer Mount	2 2 4 4 8 4 2	Mount the Topdresser
<b>3</b>	Cylinder Pin Capscrew, 1/4 x 3/4 inch Lock Nut, 1/4 inch	2 2 2	Connect Lift Cylinders
<b>4</b>	Safety Support (supplied with Workman vehicle)	1	Using the Safety Support
<b>5</b>	No parts required	–	Connect Hydraulic Couplers

## Media and Additional Parts

Description	Qty.	Use
Operator's Manual	1	Read before operating.
Parts Catalog	1	Use to lookup parts.

# 1

## Removing the 2/3 or Full Bed

### No Parts Required

### Procedure

**Note:** If the Workman is equipped with a H.D. Hitch Frame it does not have to be removed from the vehicle but the weight of the hitch frame must be subtracted from the payload capacity of the hopper. Refer to the Operating Instructions.

1. Start the engine. Engage the hydraulic lift lever and lower the bed until the cylinders are loose in the slots. Release the lift lever and turn off the engine.
2. Remove the lynch pins from the outer ends of the cylinder rod clevis pins (Figure 3).

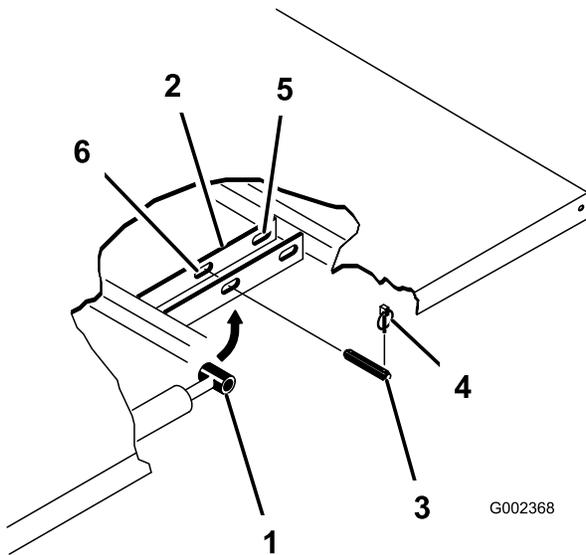


Figure 3

- |                       |                          |
|-----------------------|--------------------------|
| 1. Cylinder rod end   | 4. Lynch pin             |
| 2. Bed mounting plate | 5. Rear slots (Full bed) |
| 3. Clevis pin         | 6. Front slots (2/3 bed) |

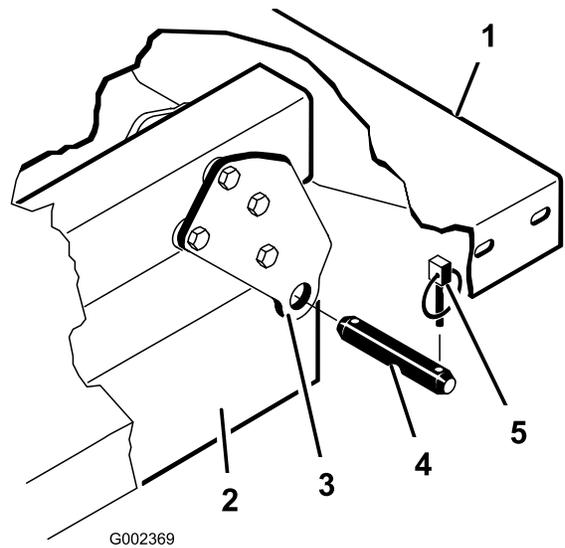


Figure 4

- |                            |               |
|----------------------------|---------------|
| 1. Left rear corner of bed | 4. Clevis pin |
| 2. Vehicle frame channel   | 5. Lynch pin  |
| 3. Pivot plate             |               |

5. Lift the bed off of the vehicle.

### CAUTION

The full bed weighs approximately 325 lb. (147.5 kg), so do not try to install or remove it by yourself. Use an overhead hoist or get the help of two or three other people.

6. Store the cylinders in the storage clips. Engage the hydraulic lift lock lever on the vehicle to prevent accidental extension of the lift cylinders.

3. Remove the clevis pins securing the cylinder rod ends to the bed mounting plates by pushing the pins towards the inside (Figure 4).
4. Remove the lynch pins and clevis pins securing the pivot brackets to the frame channels (Figure 4).

# 2

## Mounting the Topdresser

### Parts needed for this procedure:

2	Attachment Bracket
2	Clevis Pin
4	Lynch Pin
4	Capscrew, 1/2 x 1 inch
8	Flatwasher
4	Locknut, 1/2 inch
2	Spacer Mount

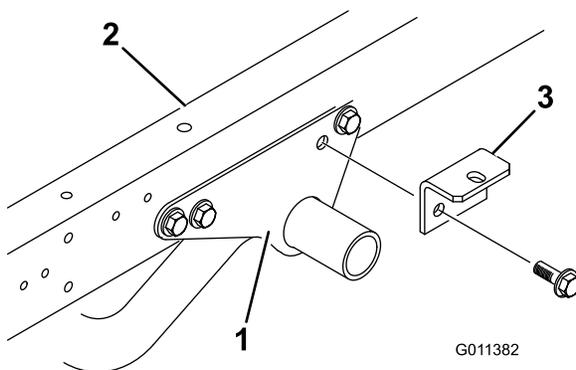
### Procedure

**Note:** On vehicles with serial numbers prior to 239999999, the Remote Hydraulic Control Kit (Model 07415) must be installed on the Workman before installation of the TopDresser 1800.

**Note:** A Engine Cover Kit, Part No. 99-1214 for Liquid Cooled Gas Workman or Part No. 92-5963 for Diesel Workman, must be installed on the Workman to prevent material overflowing directly onto the engine.

1. Remove (2) flange head capscrews and flange locknuts securing rear of each engine frame mounting bracket to each side of vehicle frame (Figure 5).

**Note:** If the Workman is equipped with a H.D. Hitch Frame, the attachment mount brackets (Steps 1 & 2) will already be mounted on Workman. Proceed to step 3.



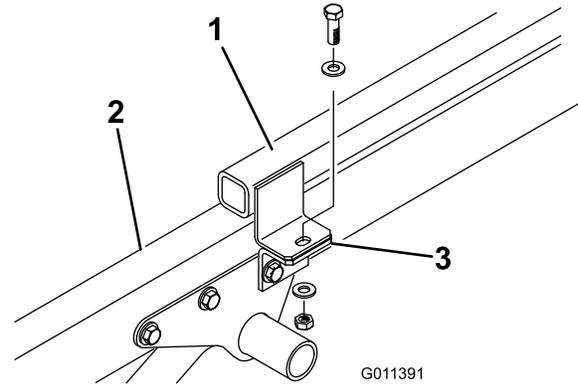
**Figure 5**

1. Engine frame mounting bracket
2. Vehicle frame
3. Attachment bracket

2. Loosely secure a attachment bracket to each engine frame mounting bracket and vehicle frame with (2) flange head capscrews and flange locknuts previously removed (Figure 5).

**Note:** If the Workman is equipped with a H.D. Hitch Frame, install spacer mounts, steps 3 & 4, otherwise proceed to step 5.

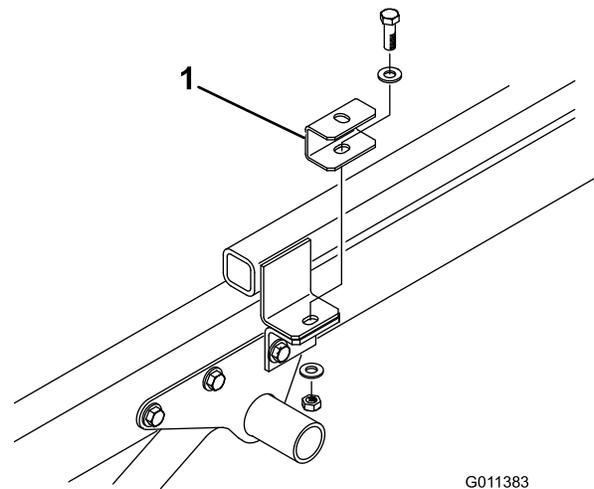
3. Remove the capscrew, (2) flatwashers and locknut securing each attachment bracket to hitch frame tabs (Figure 6).



**Figure 6**

1. Hitch frame tab
2. Vehicle frame
3. Attachment frame

4. Secure a spacer mount to top of each hitch frame tab with the capscrew, (2) flatwashers and locknut previously removed (Figure 7).



**Figure 7**

1. Spacer mount

5. Position TopDresser onto vehicle frame, aligning holes in rear mounting brackets with holes in each side of frame (Fig. 7).

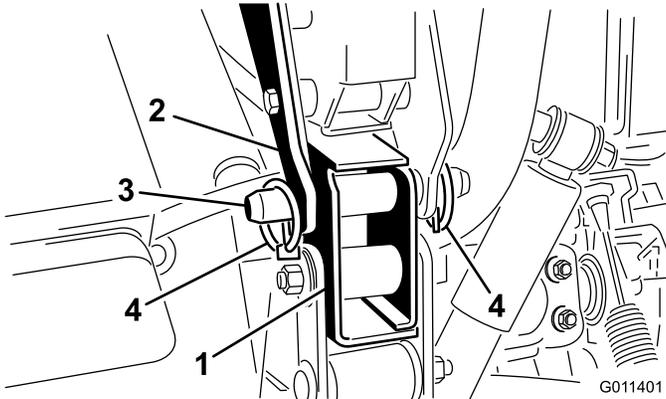
**Note:** When using a fork lift to lift the TopDresser, insert the forks thru the holes in rear flap and into channels.

**Note:** If using the optional Lift Assembly Kit (92-4452) to lift the TopDresser, proceed as follows:

- Place the lift bracket on top of hopper.
- Attach the chains to lift eyes on each corner of hopper.

**Important:** When removing the TopDresser, **ALWAYS** remove the mounting bolts and pins before lifting.

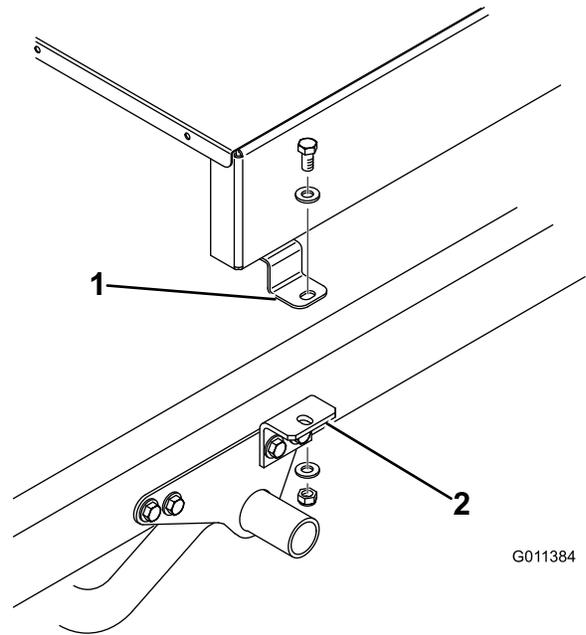
6. Secure each rear mounting bracket to vehicle frame with a clevis pin and (2) lynch pins (Figure 8).



**Figure 8**

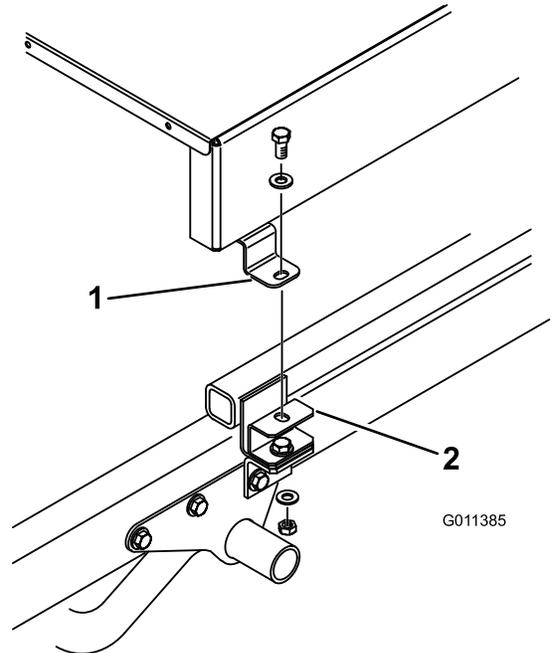
- |                          |               |
|--------------------------|---------------|
| 1. Vehicle frame bracket | 3. Clevis pin |
| 2. Mounting brackets     | 4. Lynch pin  |

7. Loosely secure top of each attachment bracket (Figure 9) or spacer mount (Figure 10) to mounting tab on each side of TopDresser with a 1/2 x 1 inch capscrew, (2) flatwashers and locknuts. Tighten all fasteners.



**Figure 9**

1. TopDresser mounting tab    2. Attachment bracket



**Figure 10**

1. TopDresser mounting tab    2. Spacer mount

# 3

## Connecting the Lift Cylinders

### Parts needed for this procedure:

2	Cylinder Pin
2	Capscrew, 1/4 x 3/4 inch
2	Lock Nut, 1/4 inch

### Procedure

1. Secure each lift cylinder rod end to TopDresser base with a cylinder pin (Figure 11).
2. Secure each cylinder pin to TopDresser base with a 1/4 x 3/4 inch capscrew, flatwasher and nut (Figure 11).

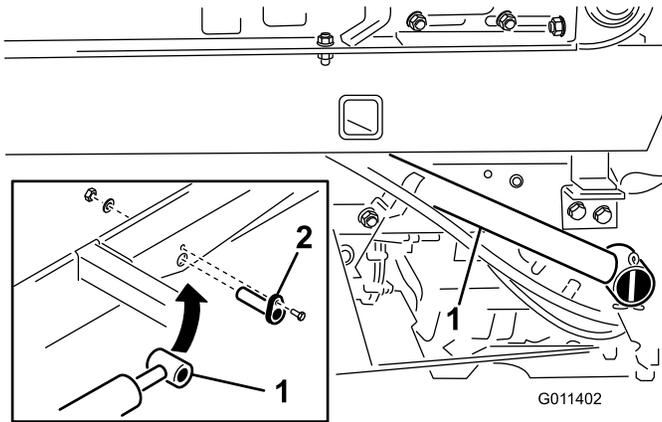


Figure 11

1. Cylinder rod
2. Cylinder pin

**Important:** Always unlock the dump stop lever before attempting to attach the cylinder for tilting. Use the tilt of the cylinders only for service of the engine or hydraulics underneath.

**Important:** DO NOT rely on the cylinders to hold up the TopDresser. ALWAYS block the TopDresser up before going underneath to perform any type of service.

On vehicles with serial numbers 240000001 & up, the bed or TopDresser cannot be raised unless the lift cylinder hoses are reconnected to the vehicle.

## ⚠ CAUTION

When tilting the hopper of the TopDresser back to perform maintenance on the Workman

- ALWAYS remove the front mounting bolts first.
- ALWAYS tilt the TopDresser with an empty load

# 4

## Using the Safety Support

### Parts needed for this procedure:

1	Safety Support (supplied with Workman vehicle)
---	--

### Procedure

**Important:** Always install or remove the safety support from the outside of the bed.

1. Raise the bed until the lift cylinders are fully extended.
2. Remove the safety support from the storage brackets on back of the ROPS panel (Figure 12).

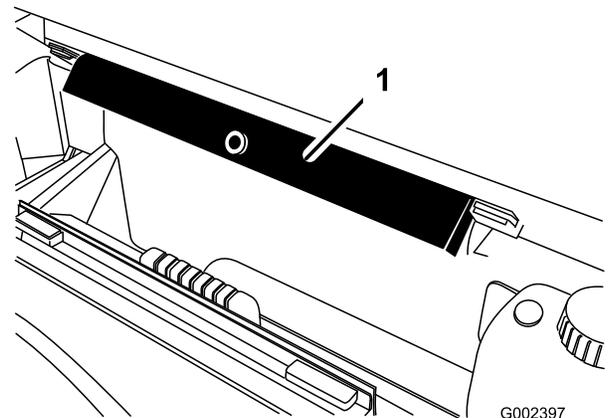
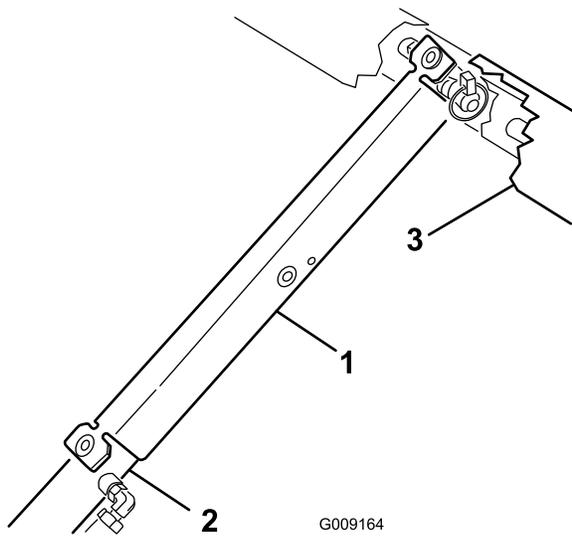


Figure 12

1. Bed support

3. Push the safety support onto the cylinder rod, making sure the support end tabs rest on the end of cylinder barrel and on the cylinder rod end (Figure 13).



**Figure 13**

- 1. Bed support
- 2. Cylinder barrel
- 3. Bed

4. When finished, remove the safety support from the cylinder and insert it into the brackets on the back of the ROPS panel.

**⚠ CAUTION**

Do not try to lower bed with bed safety support on cylinder.

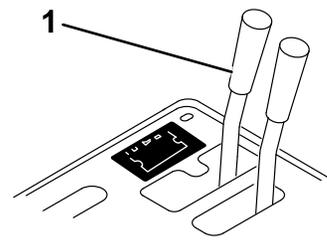
**5**

**Connecting the Hydraulic Couplers**

**No Parts Required**

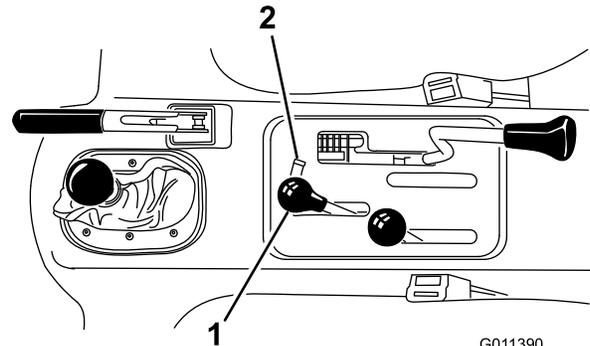
**Procedure**

1. On vehicles with serial numbers prior to 239999999, move the remote hydraulic valve handle (Figure 14) to the float position and on vehicles with serial numbers 240000001 & up, move the hydraulic lift lever (Figure 15) back and forth to remove the system pressure and ease the disconnection of the quick couplers.



**Figure 14**

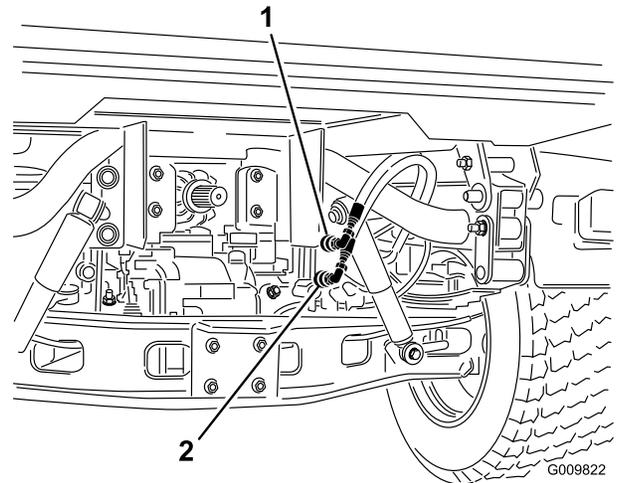
- 1. Hydraulic valve handle



**Figure 15**

- 1. Hydraulic lift lever
- 2. Hydraulic lift lock

2. On vehicles with serial numbers 240000001 & up, disconnect the two lift cylinder hoses from the hoses secured to the coupler bracket (Figure 16). Insert caps into cylinder hose quick couplers.

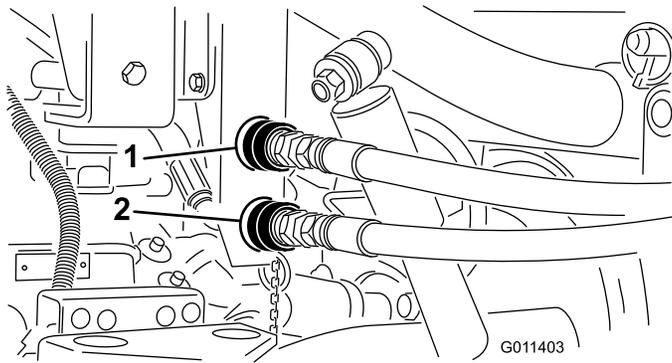


**Figure 16**

- 1. Quick coupler A position
- 2. Quick coupler B position

3. Clean any dirt from TopDresser quick couplers (Figure 17) before connecting. Dirty couplers can introduce contamination to the system. After cleaning, attach both quick couplers to the Workman. The hoses are marked "A" and "B", match them to the quick couplers when installing. Assure both quick couplers are full engaged.

**Note:** Couplers shown in Figure 17 are from vehicles with serial numbers prior to 239999999.



**Figure 17**

1. Quick coupler A position    2. Quick coupler B position

**Important:** The Workman hydraulic system operates on Dexron III automatic transmission fluid. This fluid provides gear and bearing lubrication as well as fluid for operating the hydraulic system.

When the remote hydraulic system quick couplers are connected, hydraulic fluid flows from the TopDresser to the vehicle. If the hydraulic fluid in the TopDresser is not the same or equivalent to vehicle's, component damage to transaxle or hydraulic system may result.

Fluid compatibility should be checked and appropriate action taken, if TopDresser is subsequently used in conjunction with any other product using fluids other than Dexron III ATF.

### **▲ CAUTION**

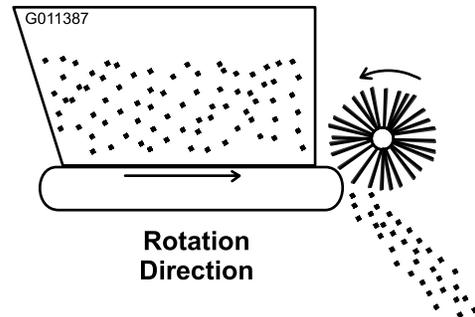
Before disconnecting or performing any work on the hydraulic system, all pressure in system must be relieved by stopping engine and placing the remote hydraulic valve in the float detent position.

Make sure all hydraulic line connectors are tight, and all hydraulic hoses and lines are in good condition before applying pressure to the system.

Keep body and hands away from pin hole leaks in hydraulic lines that eject high pressure hydraulic fluid. Use cardboard or paper to find hydraulic leaks. Hydraulic fluid escaping under pressure can penetrate skin and cause injury. Fluid accidentally injected into the skin must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.

**Important:** Check hydraulic oil level after installation of Topdresser 1800. Check operation of TopDresser, then recheck hydraulic oil level. Operation of vehicle with low oil level can damage pump, remote hydraulics, power steering and vehicle transaxle. Use Dexron III automatic transmission fluid if needed.

4. Start vehicle engine and test rotation of the conveyor and brush. Place remote hydraulics lever of Workman in the "run" position. The rotation should be as shown in Figure 18. If the rotation is backwards the quick couplers need to be reversed.



**Figure 18**

**Important:** Make sure hoses are routed away from any moving, sharp or hot components.

5. Visually inspect the hydraulic system for leaks, loose fasteners, missing parts, improperly routed lines. Make all repairs before operating.

# Product Overview

## Controls

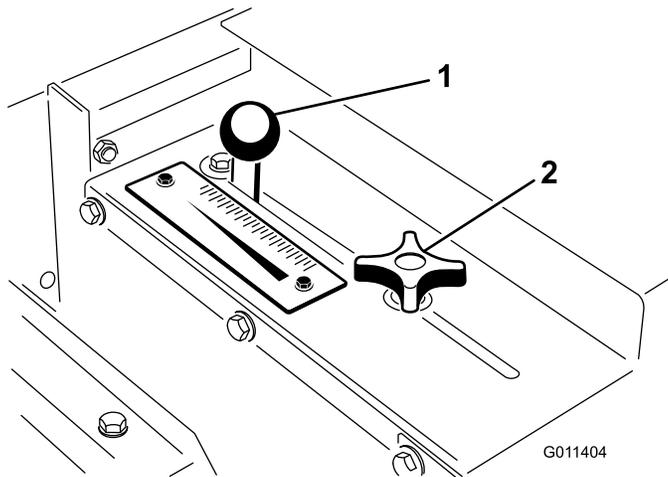
### Gate Metering Control

The black knobs on the left rear side of the machine are used to adjust and lock the gate into the desired open height position.

1. Loosen the locking knob (Figure 19) enough to allow it to slide freely in the slot.
2. Set the gate knob (Figure 19) into the desired position and tighten the locking knob to secure the adjustment.

### Rate Scale

Use the rate scale (Figure 19) to determine the desired flow rate. Refer to Sand Application Rate.



**Figure 19**

1. Gate adjusting knob
2. Gate locking knob
3. Rate scale

# Specifications

**Note:** Specifications and design are subject to change without notice.

### Dimensions and Weights (approx.)

Length	54 inches
Width	73 inches
Spreading Width	60 inches
Inside Clear Width	69 inches
Height	49.5 inches (Mounted on Workman)
Shipping Weight	850 pounds
Dry Weight	808 pounds
Hopper Capacity	18 cubic feet

### Required Attachments

Remote Hydraulic Control Kit (For vehicles with serial numbers prior to 239999999)	Model No. 07415
Engine Cover Kit (Mitsubishi, liquid cooled diesel Workman) <b>or</b>	Part No. 92-5963
Engine Cover Kit (Mitsubishi, liquid cooled gas Workman) <b>or</b>	Part No. 99-1214
Engine Cover Kit (Daihatsu, liquid cooled gas & diesel Workman) <b>and</b>	Part No. 117-4867 (Included on HD series models)
1/3 Area Cover (Daihatsu, liquid cooled gas & diesel Workman)  <b>Note:</b> The 1/3 cover will not fit if a High Air Intake Kit is installed. A 1/3 Flat Bed must be used if a High Air Intake Kit is desired. <b>or</b>	Part No. 93-9225
1/3 Flat Bed	Model No. 07341

## Recommended Accessories

Jack Stand Assembly (Qty. 4) Requires: Hitch Pin (Qty. 4)	Part No. 105-9482-03 Part No. 100-4523
Tachometer/Speedometer Kit (Mitsubishi, liquid cooled gas Workman)	Part No. 87-9950
Tachometer/Speedometer Kit (Mitsubishi, liquid cooled diesel Workman)	Part No. 87-9970
Tachometer/Speedometer Kit (Air cooled gas Workman 3000–4000)	Part No. 87-9960
Tachometer/Speedometer Kit (Air cooled gas Workman HD)	Part No. 115–7786
Tachometer/Speedometer Kit (Daihatsu, liquid cooled gas Workman 3000–4000)	Part No. 105-9498
Tachometer/Speedometer Kit (Daihatsu, liquid cooled diesel Workman 3000–4000)	Part No. 105-9499
Tachometer Kit (Air cooled gas Workman 3000–4000)	Part No. 107-7977
Tachometer Kit (Daihatsu, liquid cooled gas Workman 3000–4000)	Part No. 107-7975
Tachometer Kit (Daihatsu, liquid cooled diesel Workman 3000–4000)	Part No. 107-7976
Hand Throttle Kit (For vehicles with serial numbers 240000001 & up)	Model 07420
Hand Throttle Kit (For vehicles with serial numbers prior to 239999999)	Model 07416

## Attachments/Accessories

A selection of Toro approved attachments and accessories are available for use with the machine to enhance and expand its capabilities. Contact your Authorized Service Dealer or Distributor or go to [www.Toro.com](http://www.Toro.com) for a list of all approved attachments and accessories.

# Operation

**Note:** Determine the left and right sides of the machine from the normal operating position.

### **⚠ WARNING**

**Rotating parts can grab or pinch. Stay clear of brush and conveyor belt while unit is running.**

Safe operation begins before taking the vehicle out for a day's work. Read and understand the operating instructions in the Toro Workman operator's manual before using the TopDresser.

### **⚠ WARNING**

**The interlock switches are for the operator's protection, so do not bypass them. Check operation of the switches daily to assure interlock system is operating on the Workman. If a switch is malfunctioning replace it before operating. Do not rely entirely on safety switches - use common sense!**

1. Sit on the seat and engage parking brake.
2. Disengage PTO (if so equipped) and return hand throttle lever to OFF position (if so equipped).
3. Place the Workman Remote Hydraulic Valve Handle in the OFF position.
4. Move shift lever to NEUTRAL position and depress clutch lever.
5. Insert key into ignition switch and rotate it clockwise to start the engine. Release key when engine starts.
6. Practice starting, driving and stopping the Workman. Always read and understand the Operator's manual for the Workman before using this unit.
7. Check for smooth operation of belt before adding material in hopper.
8. Place sand or other topdressing material in the hopper. The maximum volume of material that can be put into the hopper is 18 cubic feet. Generally, sand weighs 100 pounds per cubic foot and could overload the Workman if more than 1400-1500 pounds are loaded into the hopper.

**Important:** When any other attachments, such as the H.D. Hitch frame, are installed on the Workman while using the Topdresser, the weight of those attachments must be subtracted from the payload capacity of the hopper.

A method for determining the total weight of your attachments would be to place the rear tires on a scale. **The maximum weight capacity of the rear**

axle of the Workman 3000/4000 Series is 2600 pounds and 3025 pounds for the Workman HD Series.

## ▲ DANGER

As a general rule, position the weight of the load evenly from front to rear and evenly from side to side.

Transporting or topdressing with a full load can cause shifting of the sand. This shifting happens most often while turning, going up or down hills, suddenly changing speeds or while driving over rough surfaces. Shifting loads can lead to tipovers. Use caution when transporting or topdressing with a full load.

Heavy loads increase stopping distance and reduce your ability to turn quickly without tipping over.

**NEVER** tilt the TopDresser Bed for maintenance with any material in the hopper. Always tilt the TopDresser bed with a empty hopper.

9. Transport to the area to be topdressed.
10. Adjust the metering gate to the desired rate. Lock into position with the black knob.
11. Move the shift lever into "LO" range position. Select the desired forward speed and begin moving. Refer to the following section, Sand Application Rate.
12. On vehicles with serial numbers prior to 239999999, pull the remote hydraulic lever back to the "RUN" position and On vehicles with serial numbers 240000001 & up, lock the hydraulic lift lever in the forward position The unit is now topdressing.

## Sand Application Rate

The rate of sand applied depends on the gate setting and the gear/range setting. Sand varies in moisture and coarseness (size of grain) which effects the rate. These factors must be taken into consideration when deciding the amount of sand required for the application. Test a small area to decide the correct amount. To increase application rate, either open gate to a higher scale mark or shift Workman to a lower gear.

**Note:** On vehicles with serial numbers 240000001 & up, sand application rate will decrease when vehicle is turned. Avoid making sharp turns when topdressing

To assure consistent application, from green to green, it is highly recommended to use a tachometer and/or

hand throttle to maintain constant engine speed while topdressing.

## ▲ WARNING

**Tipping or rolling the vehicle on a hill will cause serious injury**

If engine stalls or you lose headway on a hill, never attempt to turn vehicle around

Always back straight down a hill in reverse gear.

**NEVER** back down in neutral or with the clutch depressed, using only the brakes.

**NEVER** add sideboards or panels to the top of the hopper to increase the load capacity. The additional weight will cause tipping or rolling of the vehicle and lead to serious injury

**NEVER** drive across a steep hill, always drive straight up or down. Avoid turning on a hill. Don't "drop the clutch" or slam on the brakes. Sudden speed change can initiate tipover.

## Sand Precautions

The TopDresser 1800 is equipped with a flexible gate edge (Figure 20) and spring release mechanism to reduce the chance of sand chunks or rocks getting lodged during operation. To insure long belt life, sift or check sand for rocks with sharp edges that may damage conveyor belt.

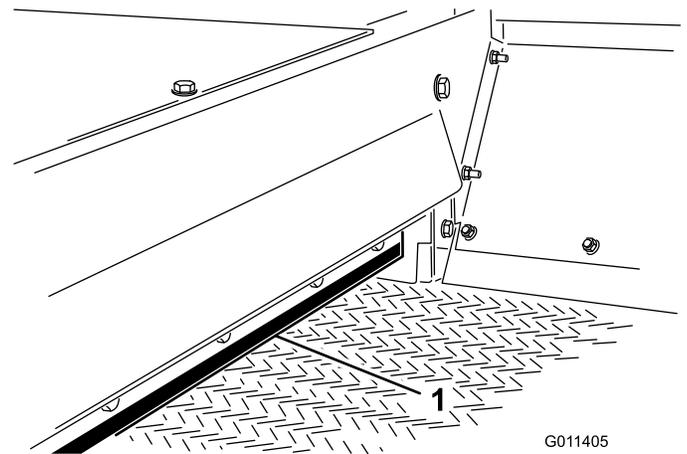


Figure 20

1. Gate edge

## Cold Weather Operation

The TopDresser 1800 may be used in cold weather, with certain limitations, to apply a salt/sand mixture on pavement for ice control. The PVC conveyor belt material becomes very stiff in cold weather and requires

more power to operate belt. The life of the belt is reduced by approximately 50% when operated below temperatures of 40 degrees F (5 degrees C). **Under no conditions should the TopDresser be operated below temperatures of 20 degrees F (-7 degrees C).**

1. Increase belt tension by adjusting spring compression to 4 inches (101 mm). Refer to Adjusting Conveyor Belt.
2. Always run belt, before adding material, to assure moisture has not frozen belt system. Damage to belt or roller may occur if belt/drive roller slip.

**Important:** Always re-set belt tension to normal 4-7/16 inches (112 mm) spring compression adjustment before operating TopDresser under normal temperature conditions.

# Maintenance

**Note:** Determine the left and right sides of the machine from the normal operating position.

## Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
Every 25 hours	• Lubricate grease fittings

### ⚠ WARNING

Before servicing or making adjustments to the machine, stop engine, set parking brake and remove key from ignition switch. Any load material must be removed from hopper before working under raised TopDresser. Always install safety supports on cylinders before working under raised TopDresser.

## Lubrication

**Service Interval:** Every 25 hours

The Topdresser 1800 has 5 grease fittings that must be lubricated with a No. 2 Lithium based grease.

The grease fitting locations (Figure 21) and quantities are: Roller shaft bearings (4) and Brush shaft bearing (1).

**Important:** Lubricate the bearings to maintain a slight leakage between bearings and housings. Too much grease can cause overheating.

**Note:** We do not recommend lubricating the drive chain unless it becomes stiff because of rust. If the chain rusts, it may be lubricated lightly with a DRY-TYPE LUBRICANT.

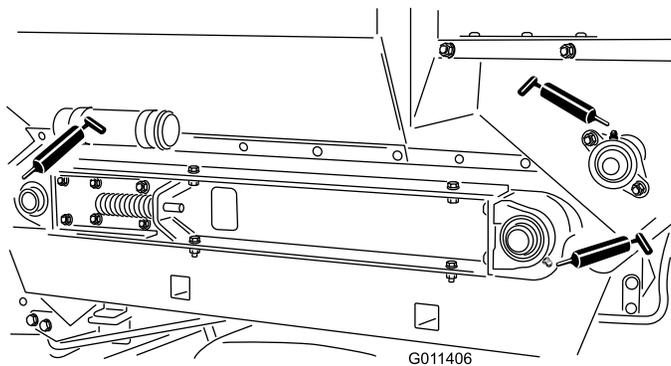


Figure 21

side to side. The brush adjustment should be checked weekly for wear. The bristles of the brush will wear under normal conditions and the distance from the brush to conveyor belt should be maintained to prevent uneven wear of the brush.

**Note:** If using moist top dressing materials, brush may have to be adjusted so bristles will whisk material from between conveyor belt lugs without severely contacting smooth portion of belt.

1. Loosen nuts securing bearing housing (Figure 22) to right side of machine.

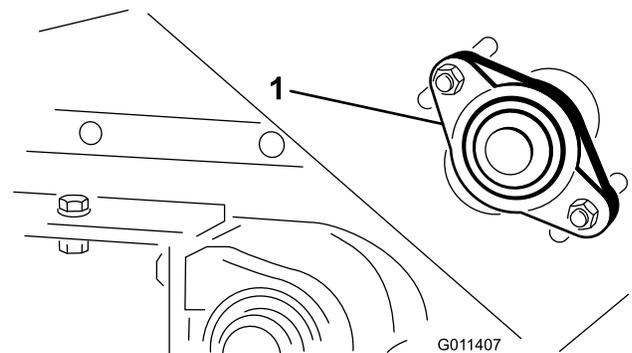
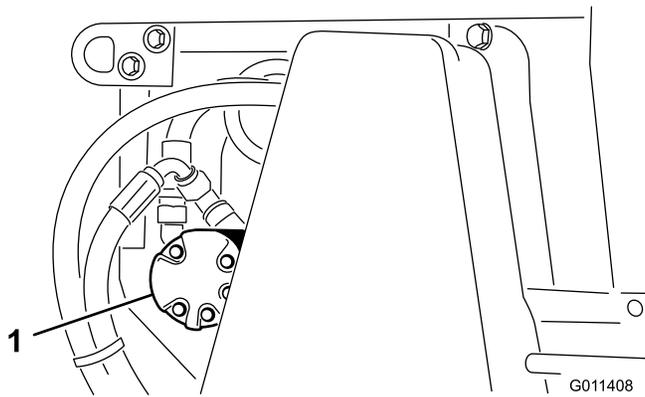


Figure 22

1. Bearing housing
- 
2. Loosen nuts securing brush motor (Figure 23) to left side of machine.

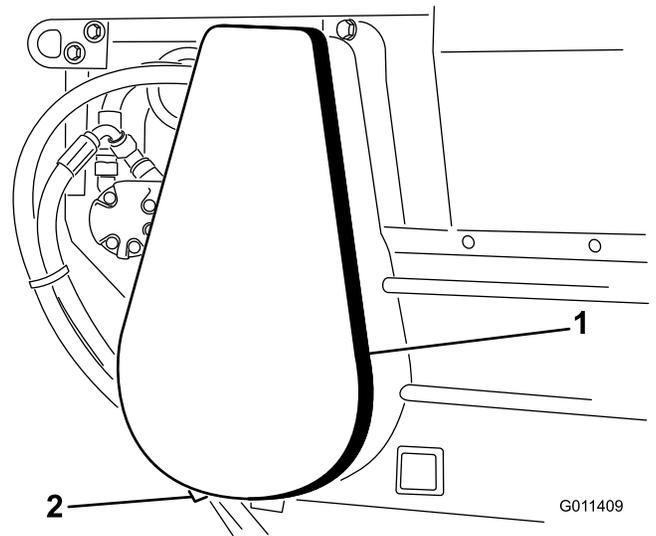
## Brush Adjustment

Brush must make enough contact with conveyor belt to disperse topdressing material but not restrict the rotation of the brush. A piece of stiff paper can be inserted between the conveyor belt and the brush to check the adjustment. The brush must be the same height from



**Figure 23**

1. Brush motor



**Figure 24**

1. Chain cover assembly
2. Spacer (under cover)

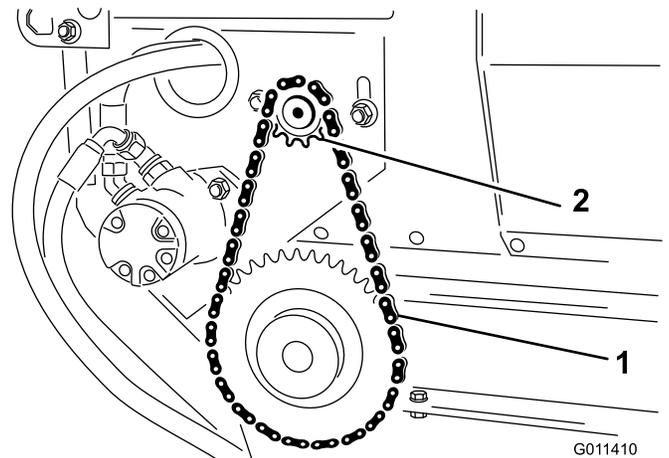
3. Slide brush into position on right side. Finger tighten nuts.
4. Slide brush into position on left side. Finger tighten nuts.
5. Insert a piece of stiff paper between the brush and the conveyor belt. The brush must be the same height from side to side.
6. If the adjustment is correct, tighten nuts. If not, repeat procedure.

## Drive Chain Tension

The chain should be tensioned so it deflects 1/8 inch. Do not over tighten, this will cause chain wear. Do not operate with a loose chain, this will cause sprocket wear.

**Important:** The fasteners on the covers of this machine are designed to remain on the cover after removal. Loosen all of the fasteners on each cover a few turns so that the cover is loose but still attached, then go back and loosen them until the cover comes free. This will prevent you from accidentally stripping the bolts free of the retainers.

1. Remove the chain cover assembly and spacer (Figure 24).



**Figure 25**

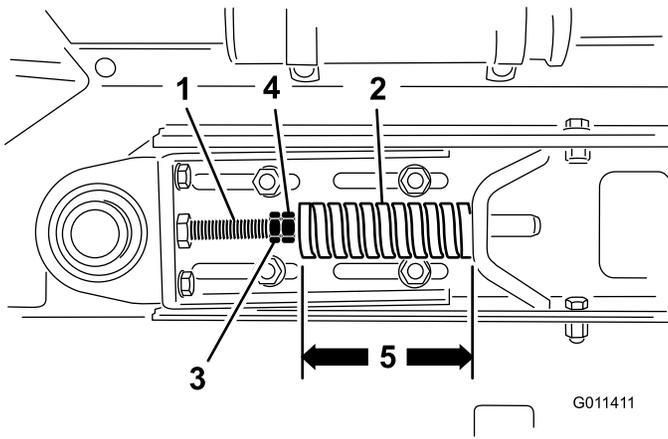
1. Drive chain
2. Motor and sprocket assembly

4. Tighten mounting bolts.
5. Install cover assembly and spacer.

## Adjusting Conveyor Belt

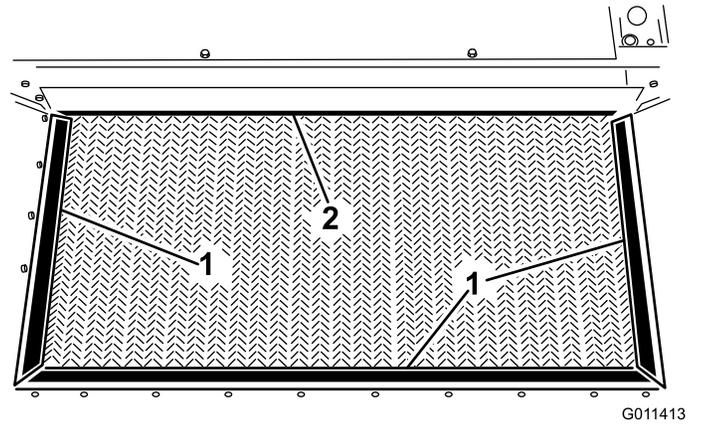
When conveyor belt is adjusted properly, the compressed length of each compression spring should be 4-7/16 inches (112 mm). Adjust conveyor belt as follows:

1. Loosen jam nuts and adjust tension rod (Figure 26) nuts to attain desired tension.



**Figure 26**

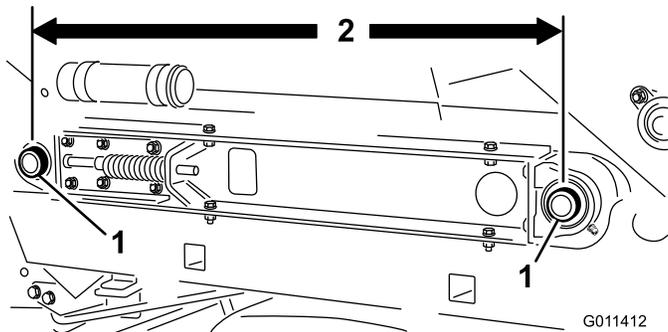
- |                       |            |
|-----------------------|------------|
| 1. Tension rod        | 3. Jam nut |
| 2. Compression spring | 4. Nut     |



**Figure 28**

- |                |              |
|----------------|--------------|
| 1. Hopper seal | 2. Gate edge |
|----------------|--------------|

2. Tighten jam nuts to lock adjustment.
3. Check to insure that the center distance between conveyor belt roller shafts (Figure 27), on each side of machine, are equal distance (approximately 35-1/4 inches).



**Figure 27**

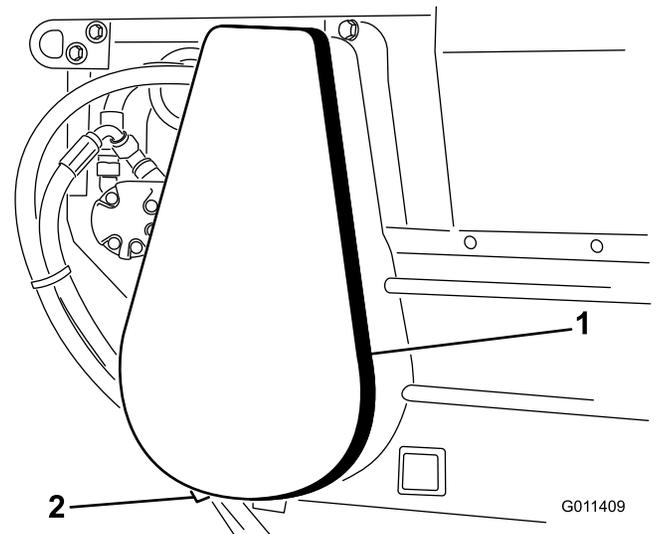
1. Conveyor belt roller shafts

## Replacing Conveyor Belt

When replacing a damaged or worn conveyor belt, always inspect hopper seals (Figure 28) and gate edge (Figure 28) for wear or torn edges. Replace worn or torn components to insure proper operation of new conveyor belt.

**Important:** The fasteners on the covers of this machine are designed to remain on the cover after removal. Loosen all of the fasteners on each cover a few turns so that the cover is loose but still attached, then go back and loosen them until the cover comes free. This will prevent you from accidentally stripping the bolts free of the retainers.

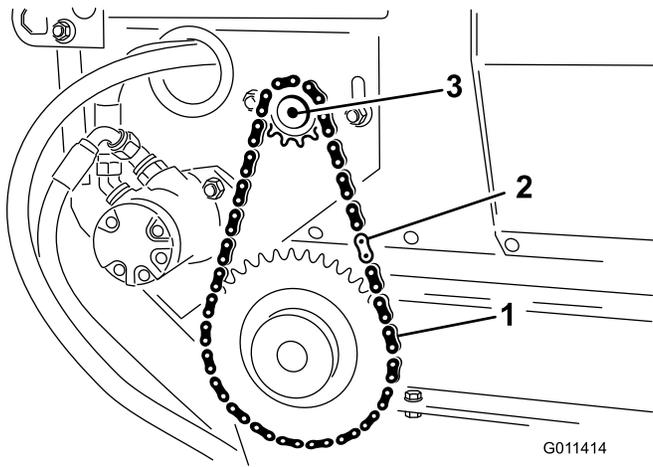
1. Remove chain cover assembly and spacer (Figure 29).



**Figure 29**

- |                |                         |
|----------------|-------------------------|
| 1. Chain cover | 2. Spacer (under cover) |
|----------------|-------------------------|

2. Remove master link from chain and remove chain from small sprocket (Figure 30).

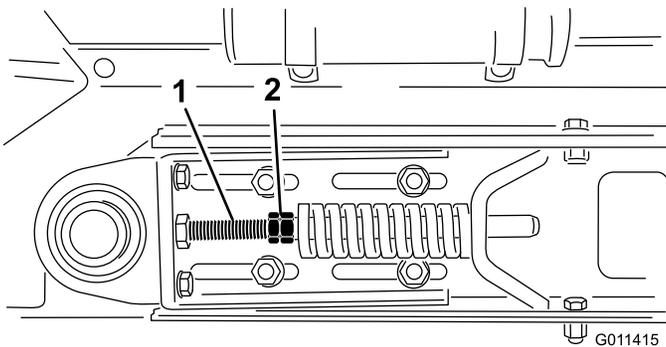


**Figure 30**

- 1. Drive chain
- 2. Master link
- 3. Motor

**Note:** Motor mounting bolts may have to be loosened to disassemble chain link.

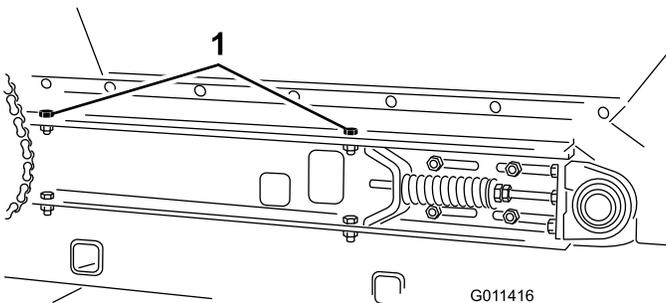
- 3. Loosen jam nuts and nuts on tension rod to release spring tension (Figure 31).



**Figure 31**

- 1. Tension nuts
- 2. Nuts

- 4. Remove (2) capscrews, washers and nut, on each side of machine, securing hopper to slider bed (Figure 32).



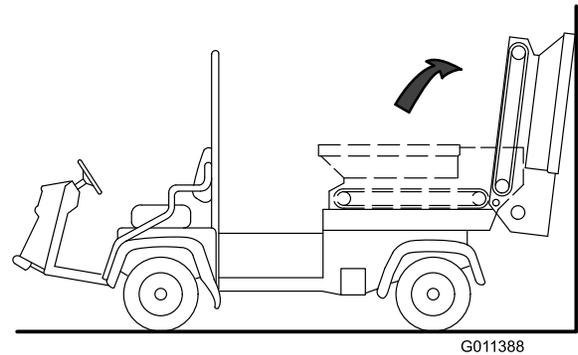
**Figure 32**

- 1. Hopper mounting capscrews (right side shown)

- 5. Pivot hopper rearward and lean it against wall, ladder, etc. Do not allow hopper to rest against

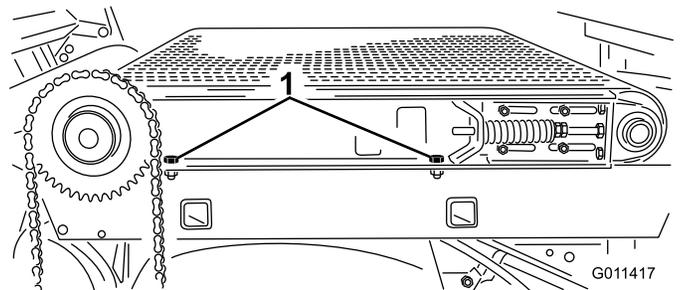
rear of machine as damage may result to brush or hydraulic couplers (Figure 33).

**Important:** Make sure hopper is pivoted beyond center and/or secured to wall or post to prevent it from accidentally falling on work area (Figure 33).



**Figure 33**

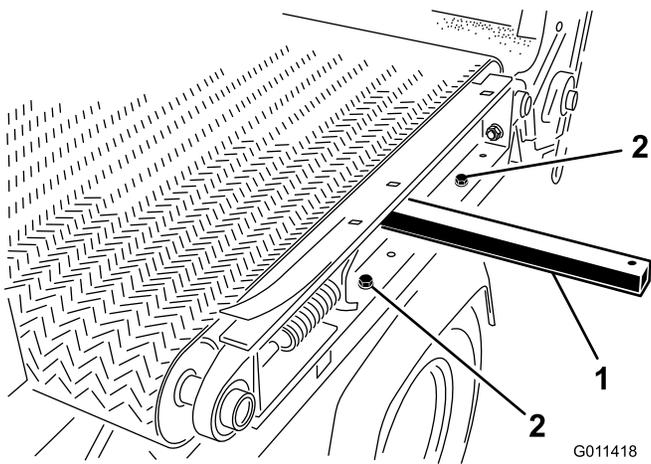
- 6. Loosen (2) capscrews, washers and nut, on right side of machine, securing slider bed to frame (Figure 34). Make sure fasteners are loose enough to allow slider bed to be tipped.



**Figure 34**

- 1. Slider bed mounting capscrews

- 7. Remove (2) capscrews, washers and nut, on left side of machine, securing slider bed to frame (Figure 35).



**Figure 35**

1. Lifting rod  
2. Slider bed mounting capscrews

8. To remove belt:

- Cut belt and remove from rollers.
- or
- Insert a plastic belt tool between each roller and belt. Rotate rollers until each tool is positioned to the outside of each roller. Tool must be inserted past rib in center of belt.
- Insert a lift bar into hole on left side of machine.
- Raise lift bar to tip slider bed.
- Slide belt and belt tools off the rollers at the same time.

9. To install belt:

- Insert a lift bar into hole on left side of machine and raise lift bar to tip slider bed (Figure 35).
- Insert belt onto rollers as far as possible.
- Insert a plastic belt tool between each roller and belt. Rotate rollers until each tool is positioned to the outside of each roller. Tool must be inserted past rib in center of belt.
- Slide belt and belt tools onto rollers until belt is approximately centered on rollers.
- Remove belt tools from between belt and rollers.
- Position belt so rib fits into alignment grooves in each roller.
- Reverse procedure to re-assemble hopper and chain components.
- Adjust belt. Refer to Adjusting Conveyor Belt.

## Trouble Shooting

### Difficulty in connecting or disconnecting quick couplers

- Pressure not relieved (Quick coupler under pressure)
- Engine running
- Remote hydraulic valve not placed in float. (Only on vehicles with serial numbers prior to 239999999)

### Power Steering Hard

- Remote hydraulic valve linkage out of adjustment. (Only on vehicles with serial numbers prior to 239999999)
- Hydraulic oil level low
- Hydraulic oil hot

### Hydraulic leaks

- Fittings loose
- Fitting missing O-ring

### Attachment does not function

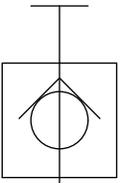
- Quick couplers not fully engaged
- Quick couplers are interchanged
- Belt Slipping-Check tension

# Storage

1. Thoroughly clean the TopDresser, especially inside the hopper. The hopper and conveyor belt area should be free of any remaining sand particles.
2. Tighten all fasteners.
3. Lubricate all grease fittings and bearings. Wipe off excess lubricant.
4. The unit should be stored out of the sun to prolong the life of the conveyor belt. When stored outside it is recommended to cover the hopper with a tarp.
5. Check the tension of the drive chain. Adjust the tension, if necessary.
6. Check the tension of the conveyor belt. Adjust the tension, if necessary.
7. When bringing the TopDresser out of storage, check for smooth operation of belt before adding material in hopper.

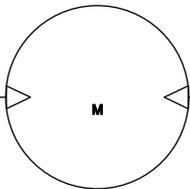
# Schematics

PORT "B"



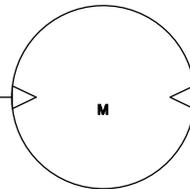
BRUSH MOTOR

2.8 IN<sup>3</sup>/REV

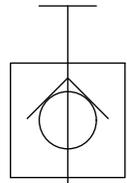


CONVEYOR MOTOR

29.8 IN<sup>3</sup>/REV



PORT "A"



G011389

Hydraulic Schematic (Rev. A)



# The Toro Total Coverage Guarantee

## A Limited Warranty

### Conditions and Products Covered

The Toro® Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant your Toro Commercial product ("Product") to be free from defects in materials or workmanship for two years or 1500 operational hours\*, whichever occurs first. This warranty is applicable to all products with the exception of Aerators (refer to separate warranty statements for these products). Where a warrantable condition exists, we will repair the Product at no cost to you including diagnostics, labor, parts, and transportation. This warranty begins on the date the Product is delivered to the original retail purchaser.

\* Product equipped with an hour meter.

### Instructions for Obtaining Warranty Service

You are responsible for notifying the Commercial Products Distributor or Authorized Commercial Products Dealer from whom you purchased the Product as soon as you believe a warrantable condition exists. If you need help locating a Commercial Products Distributor or Authorized Dealer, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Commercial Products Service Department  
Toro Warranty Company  
8111 Lyndale Avenue South  
Bloomington, MN 55420-1196  
E-mail: commercial.warranty@toro.com

### Owner Responsibilities

As the Product owner, you are responsible for required maintenance and adjustments stated in your Operator's Manual. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim.

### Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This warranty does not cover the following:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, or modified non-Toro branded accessories and products. A separate warranty may be provided by the manufacturer of these items.
- Product failures which result from failure to perform recommended maintenance and/or adjustments. Failure to properly maintain your Toro product per the Recommended Maintenance listed in the *Operator's Manual* can result in claims for warranty being denied.
- Product failures which result from operating the Product in an abusive, negligent or reckless manner.
- Parts subject to consumption through use unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to, brakes pads and linings, clutch linings, blades, reels, bed knives, tines, spark plugs, castor wheels, tires, filters, belts, and certain sprayer components such as diaphragms, nozzles, and check valves, etc.
- Failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, fertilizers, water, or chemicals, etc.

### Countries Other than the United States or Canada

Customers who have purchased Toro products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer. If all other remedies fail, you may contact us at Toro Warranty Company.

- Normal noise, vibration, wear and tear, and deterioration.
- Normal "wear and tear" includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.

### Parts

Parts scheduled for replacement as required maintenance are warranted for the period of time up to the scheduled replacement time for that part. Parts replaced under this warranty are covered for the duration of the original product warranty and become the property of Toro. Toro will make the final decision whether to repair any existing part or assembly or replace it. Toro may use remanufactured parts for warranty repairs.

### Note Regarding Deep Cycle Battery Warranty:

Deep cycle batteries have a specified total number of kilowatt-hours they can deliver during their lifetime. Operating, recharging, and maintenance techniques can extend or reduce total battery life. As the batteries in this product are consumed, the amount of useful work between charging intervals will slowly decrease until the battery is completely worn out. Replacement of worn out batteries, due to normal consumption, is the responsibility of the product owner. Battery replacement may be required during the normal product warranty period at owner's expense.

### Maintenance is at Owner's Expense

Engine tune-up, lubrication cleaning and polishing, replacement of Items and Conditions Not Covered filters, coolant, and completing Recommended Maintenance are some of the normal services Toro products require that are at the owner's expense.

### General Conditions

Repair by an Authorized Toro Distributor or Dealer is your sole remedy under this warranty.

**Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. Except for the Emissions warranty referenced below, if applicable, there is no other express warranty.**

All implied warranties of merchantability and fitness for use are limited to the duration of this express warranty. Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations 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.

### Note regarding engine warranty:

The Emissions Control System on your Product may be covered by a separate warranty meeting requirements established by the U.S. Environmental Protection Agency (EPA) and/or the California Air Resources Board (CARB). The hour limitations set forth above do not apply to the Emissions Control System Warranty. Refer to the Engine Emission Control Warranty Statement printed in your *Operator's Manual* or contained in the engine manufacturer's documentation for details