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Oshkosh Corporation Classification: Unrestricted
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<td>Throughout</td>
<td>ECN 11628 - Updated stabilizer wording.</td>
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<tr>
<td>20120814</td>
<td></td>
<td>Added propane safety information and decals, updated instructions throughout.</td>
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<tr>
<td>20180803</td>
<td>Pg. 27</td>
<td>Removed the word minimum and replaced maximum in the note section</td>
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CHAPTER 1

Bagster G3 Introduction

WARNING

READ YOUR MANUAL!! FAILURE TO READ, UNDERSTAND AND FOLLOW ANY SAFETY PROCEDURES APPLICABLE TO YOUR EQUIPMENT MAY RESULT IN EQUIPMENT DAMAGE, SERIOUS INJURY, OR DEATH.

Follow all safety procedures in this refuse container with loader operation manual as well as the crane, hoist, chassis, engine, and any other applicable manuals.

In addition to reading the manual, it is your responsibility to become familiar with government regulations, hazards, and the specific operation of your equipment. Use caution and common sense while operating and maintaining the equipment and follow all safety procedures and regulations. Treat this equipment with respect and service it regularly.

MODIFICATIONS

Modifications to your equipment must be performed with IMT approved accessories, parts and optional equipment. If in doubt, contact IMT prior to making any modifications. DO NOT alter or modify any safety device! All safety devices must be inspected, tested and maintained in proper working condition.

Decals regarding safety and operation are considered safety equipment, and must be kept clean and legible.

The equipment owner and/or designated employee is responsible for informing all operators, maintenance personnel, and others involved in equipment operation about the safe operation and maintenance of the equipment. If questions arise concerning safe operation, contact IMT or your IMT distributor for clarification.

WARRANTY

Warranty of this unit will be void on any part of the unit subjected to misuse due to overloading, abuse, lack of maintenance and unauthorized modifications. No warranty - verbal, written or implied - other than the official, published IMT new machinery and equipment warranty will be valid with this unit.

The engine warranty is provided by the engine manufacturer, Ford Power Products Engine Distributors Inc. (EDI). For engine warranty service, contact EDI customer service at 800-220-2700. Please provide your engine serial number when you call. Details on the engine warranty are included in the engine operator handbook.
NOTICE TO THE OWNER / USER

If your equipment is involved in a property damage accident, contact your IMT distributor immediately and provide them with the details of the accident and the serial number of the equipment. If an accident involves personal injury, immediately notify your distributor and IMT Technical Support at:

IOWA MOLD TOOLING CO., INC.
500 HWY 18 WEST
GARNER, IA 50438
641 - 923 - 3711

MANUAL STRUCTURE
Throughout this manual, three means are used to draw the attention of personnel. They are NOTEs, CAUTIONs and WARNINGs and are defined as follows:

NOTE

A NOTE is used to either convey additional information or to provide further emphasis for a previous point.

CAUTION

A CAUTION is used when there is the very strong possibility of damage to the equipment or premature equipment failure.

WARNING

A WARNING is used when there is the potential for personal injury or death.
Daily Safety Inspections

Use the following list as a guide when you are inspecting your unit at start-up and during operation. Log your inspection results using the Crane Log (IMT Manual No. 99900686).

1. Vehicle - Check oil level, battery, lights, brakes, and tires for inflation, pressure, cuts, and loose or missing wheel lugs.
2. Engine - Check engine oil level, antifreeze, and air filter. Check oil level using the dipstick behind the engine panel. Top or fill as necessary. Check engine coolant level, and top or fill as needed.
3. Propane engine fuel - Check fuel level using gauges on front of propane tanks. Check that tanks are latched in place with alignment and locking pins, and that hoses are secure.
4. Safety Accessories - Check for proper function, oil levels, leaks and malfunctions.
5. Crane Hydraulic Oil Reservoir - Check for proper oil level, above the bottom of the reservoir within the screened area. Check for leaks and blockages.
6. Weldments - Check visually for damage, especially cracks or breaks in welds.
7. Cylinders - Check for leakage and scored rods.
8. Fasteners - Check pins, sheaves, nuts and bolts for breakage, excessive wear and tightness.
9. Hooks - Check for the presence of a safety catch, twists, cracks, or damage.
10. Ropes & Slings - Check for frayed edges, broken strands, kinks, flat spots, and end attachments.
11. Covers & Guards - Check for missing or improperly maintained covers and guards.
12. Remote Control - Check all remote functions for function and corrosion.
13. Operation Placards and Safety Decals - Check for illegible or missing decals and placards. Refer to the Decal section of this manual for more information on the required decals.
14. Work Area - Check for hazards including powerlines, obstructions, etc.
15. Replace or repair any items as needed prior to equipment operation.
Propane Safety

WARNING!

The Bagster engine is designed to operate using dry fuel such as LPG (Liquified Petroleum Gas) Grade HD5 or NG (1050 BTU/ft.3). LPG is a Class 2 hazardous material which must be handled properly and with care. Wear insulated gloves and safety glasses when working with propane. Follow your employer's work rules for additional personal protective equipment. Use caution when loading and unloading tanks, or when changing the tank supply to the engine.

LPG Hazards

1) Fire

LPG is extremely flammable. Do not have open flames, sparks, or flares near the LPG tanks. If fire occurs, shut off the propane supply if possible, so the fire will burn out from lack of fuel. Otherwise, extinguish fire with powder or carbon dioxide.

2) Explosion

LPG gas/air mixtures are explosive. Use non-sparking hand tools around LPG tanks.

3) Inhalation

Inhalation of LPG will cause drowsiness or unconsciousness. Check propane hose connection points regularly. Use properly rated hose. Do not operate engine indoors or in areas without proper ventilation.

4) Contact with Skin / Eyes

LPG will cause frostbite on contact with skin or eyes. Wear protective clothing including insulated gloves and a face shield. If contact occurs, do not remove clothing and rinse the area with plenty of water. Seek medical attention if needed.
CHAPTER 2

Operation

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Introduction

Your refuse container with crane is an effective waste-handling machine, but you must operate it safely.

Follow all safety instructions in the crane, engine, and hoist manuals. Complete the pre-operation checklist and follow proper operating procedures to set stabilizers and run crane.

**DANGER**

**DO NOT** operate the crane unless the clamps pins are engaged!
Crane Operation Mode

1 Follow all job site safety regulations, including activating the truck hazard lights and strobe lights.

2 Follow the directions in the Roll-Off Hoist manual to pull the roll-off container onto the chassis.

   **CAUTION!** Operate the hoist per manufacturer instructions. Operate only one function at a time.

   Before continuing, visually check that the hook on the container has contacted the stops at the front of the roll-off hoist, and that the container restraint brackets on both sides of the roll-off container are interlocked with the pockets on the hoist.

   **NOTE:** The roll-off container is secured to the upper hoist using container restraint brackets which hook into the pockets on the upper hoist. The upper hoist is secured to the lower hoist using clamping pins. Both the restraint bracket and the clamping pins, on both sides of the vehicle, must be securely engaged between the hoist and the container before operating the crane.

3 Disengage the PTO using the PTO switch in the cab.
4 Turn on the *Crane Mode* switch in the cab.

This will activate the clamps on each side of the container.

Visually verify that both clamp pins have engaged on both sides of the vehicle.

---

**DANGER! Pinch Point!** Do not place anything in the path of the clamping pins which secure roll-off.

---

5 If desired, you can shut off the truck engine at this time, as the refuse container with crane can be operated with the secondary propane engine.
6 Cinch ratchet strap at both sides of the rear section of the roll-off. This will secure the roll-off container and prevent instability.

**CAUTION! Avoid Equipment Damage! Use the ratchet straps!**

7 Plug in the green electrical wire at the front of the container assembly.

8 Turn on the propane fuel source for the secondary engine located in front of the crane.
9 Flip the battery switch on the passenger side of the unit to the *On* position.

10 On the engine control panel on the driver’s side of the unit, turn the key to the *Start* position and release. The key will automatically turn back to the *Run* position. Then press the green button on the engine panel to start the engine. **NOTE:** There will be a slight delay after the green button is pressed before the engine will start. You do not need to hold the engine power button. If the engine does not start, it will attempt to start again after a pause.

11 Follow IMT instructions to set the stabilizers and operate the crane.
# Pre-Operation Checklist

Make sure each of these tasks is completed before operating the loader on the refuse container with loader.

<table>
<thead>
<tr>
<th>TASK</th>
<th>VERIFICATION</th>
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<tr>
<td>1. Pull roll-off container to front of truck.</td>
<td>Visually check to see the front of the roll-off container has contacted the stops. Visually check that container restraint bracket has locked into pocket on roll-off container.</td>
</tr>
<tr>
<td>2. Install and tighten ratchet straps.</td>
<td>Check that straps are tightened on both sides of the container.</td>
</tr>
<tr>
<td>3. Disengage PTO by pressing the switch in the cab.</td>
<td></td>
</tr>
<tr>
<td>4. In truck cab, press the green <em>Crane Mode</em> button on the power tower in the cab to activate clamping pins.</td>
<td></td>
</tr>
<tr>
<td>5. Turn on the propane fuel source for the secondary engine.</td>
<td>Visually check that the clamp pins have engaged in the clamp pin brackets. Inspect both sides of the container. <strong>CAUTION:</strong> If you have parked on a slope such that the chassis is tilted, the pin may only engage on one side of the vehicle. Move the vehicle to a location which is more level so that both pins engage.</td>
</tr>
<tr>
<td>TASK</td>
<td>VERIFICATION</td>
</tr>
<tr>
<td>------</td>
<td>--------------</td>
</tr>
</tbody>
</table>
| 6    | **Connect electrical wire at front of truck.**  
      | Visually check that wire is connected.         |
| 7    | **Flip the battery to the ON position.**       |
| 8    | **Turn on the engine.**  
      | Verify that the engine turned on.  You should be able to hear the engine running. If it does not turn on, recheck the propane fuel source and the battery. |
Crane Remote Control

Use the crane remote to set up the stabilizers, run the crane, release the hook, and to perform other crane operations. To start the remote control:

1. Pull out all stop buttons on the RCL control panel and radio remote.
2. Release all control levers to a neutral position.
3. Turn on the remote by pressing and holding the ON button for 2 seconds. (Black button for remote power.)
4. Activate the RCL system by pressing the green button on the front of the remote.
5. Follow the directions in the appropriate sections for additional crane operations.

NOTES

The Engine Stop button turns off the secondary engine immediately. It will stop the secondary engine and stop hydraulic flow. Use Engine Stop in case of a hydraulic hose failure to reduce mess.

The Emergency Stop button stops crane function. Use Emergency Stop to stop crane operation immediately. Emergency Stop stops the crane only, and does not affect the secondary engine.

The Engine Speed Control function, when toggled left, is set to automatically adjust the engine speed to low or high depending on crane demand; when toggled right, is set to high speed, and when set in the center, is off. The crane functions best when the engine speed is set on automatic. The stabilizers don't have automatic speed control, so will run on low when the speed is set to automatic.
Pneumatic-Hydraulic System

The Refuse Container with Loader includes hoist to crane interlocks which activate automatically when the *Crane Mode* switch on the power tower in the cab is turned on. (The green light on the switch will light.) Turning on the *Crane Mode* will cause the pneumatic clamp pins on each side of the container to lock the container to the hoist. When the *Crane Mode* switch is on, no hoist functions can be operated. When the *Crane Mode* switch is off, the clamp pins will retract and the hoist can be operated.

Crane Operation Details

Complete details on the crane, engine, remote, and RCL are provided in the following manuals:

- 99904990 - Refuse Container with 14-98SL Crane Parts Manual
- 99904596 - RCL5300 Manual
- 99903518 - Radio Remote Control Manual
- DSG423 - Engine Operation Manual

In addition, IMT has developed a set of quick reference guides which can be easily carried with the operator for reference in operating the refuse container with crane unit. The complete set is part number 95723858. The set includes the following guides:

- 71399121 - Quick Guide - Crane Pre-Operation Checklist
- 71398895 - Quick Guide - Crane Start-up
- 71398896 - Quick Guide - Stabilizer Set-up
- 71396471 - Quick Guide - Crane Stow/Unstow
- 71398897 - Quick Guide - Overload Conditions
- 71398898 - Quick Guide - Absolute Stop
- 71398899 - Quick Guide - Emergency Mode
- 71399122 - Quick Guide - Transport

**NOTE**

The crane operation notes in this manual are provided as a reference only, and cannot be substituted for a thorough review of the crane, RCL5300 and Radio Remote Control manuals.
Extending Stabilizers

Your refuse container with loader is equipped with power-out / power-down stabilizers with a swing rotation system. You must properly set the stabilizers before operating the crane.

**DANGER**

Avoid Death or Serious Injury! Close clamps before operating stabilizers or crane.

**CAUTION**

Avoid equipment damage! Check for obstructions before extending the stabilizers.

1. Make sure:
   a) The PTO is disengaged.
   b) The green electrical harness is connected.
   c) The *Crane Mode* switch in the cab is on.
   d) The clamps pins are completely engaged and the hoist bracket is locked into the container restraint pocket.
   e) The propane fuel source, battery, and engine are all turned on.
   f) See Crane Operation Mode for details.

2. The stabilizers are operated using cable controls. Stabilizer controls are located on each side of the unit. Each stabilizer must be set up individually. Per the crane operation manual, you must place the crane in *stabilizer* mode to operate the hydraulic stabilizers. To do this, press the yellow button twice on the RCL control panel or on the remote control transmitter.

3. Make sure the power-down stabilizer is completely retracted and stowed against the rotation stop.
4 Release the manual stabilizer latch on the power-out stabilizer. Fully extend the stabilizer arm, using the Power Out control lever.

Slowly operate the Power Down stabilizer control lever to automatically rotate the power-down cylinder into the downward position. When the power down cylinder foot is positioned just off of the ground, engage the locking pin at the top of the cylinder to lock it into place. Then extend the power down stabilizer until it touches the ground per the crane operation manual.

CAUTION! Avoid shearing the pin and damaging the stabilizer auto-rotate system. Operate the Power Down function slowly.

5 Avoid danger from moving stabilizers! The unit has swing-up stabilizers that extend 7-feet (2.1 m) from each side of the unit. Stand clear.

6 Repeat with stabilizer on the other side of the truck.

7 After setting the stabilizers, return the electrical system to crane mode to operate the crane by pressing the yellow button twice on the RCL control panel or on the remote control transmitter.
Unfolding the Loader

1. Fully extend the stabilizer arms.
2. Rotate and lower the stabilizer legs. Follow the steps in the section, Extending Stabilizers.
3. Using the *outer boom down* control, raise the outer boom to free it from the stowing bracket.
   **NOTE**
   The outer boom must be raised, using the *outer boom down* movement of the control, so that the outer boom is released from the bracket.

4. Raise the inner boom to free it from the bracket. Continue to raise the inner boom until it is slightly above horizontal so that the outer boom can be moved freely downwards.
5. Raise the outer boom until it is free of the base.
Crane Capacity

The IMT crane is designed to lift specific loads. These loads are defined on the capacity placard mounted near the operator’s station and on the crane. Exceeding the limits presented on the capacity placard will create severe safety hazards and will shorten the life of the crane. The operator and other concerned personnel must know the load capacity of the crane and the weight of the load being lifted!

The capacity chart for each model is located in the specific crane technical specifications manual and on placards on the crane and body.

WARNING

NEVER EXCEED THE RATED LOAD CAPACITY OF THE CRANE OR RIG RELEASE HOOK. DOING SO WILL CAUSE STRUCTURAL DAMAGE AND DAMAGE TO RIG RELEASE HOOK WHICH CAN LEAD TO DEATH OR SERIOUS INJURY.

NOTE

CAPACITY PLACARDS ARE INTENTIONALLY LOCATED NEAR THE OPERATOR TO ASSURE READY REFERENCE IN DETERMINING WHEN A LOAD CAN OR CANNOT BE HANDLED.

LOAD LIMIT INFORMATION ON THE CAPACITY PLACARD IS FORMULATED ON 85% OF TIPPING. TIPPING REFERS TO THE CRANE ACTUALLY TIPPING WITH ITS OPPOSITE STABILIZER AND TIRES HAVING BROKEN CONTACT WITH THE SURFACE.

Prior to lifting a load:

1. Determine the weight of the load.
2. Determine the weight of any load handling devices.
3. Add the weight of the load and the weight of the load handling devices. The sum is the total weight of the load being lifted.
4. Determine the distance from the centerline of crane rotation to the centerline of the load being lifted.
5. Determine the distance from the centerline of crane rotation to the centerline of where the load is to be moved to.
6. The actual distance used should be figured as the larger of items 4 and 5 above.
Capacity Charts

Your refuse container with crane may have a 14/98SL K3 or 14/98DL K3 crane. Capacity charts for each of these are shown here.
WARNING

AVOID DEATH OR SERIOUS INJURY! The rated capacity of the rig release hook is 5,000 lb (2.5 tons). Although the crane capacity exceeds 5,000 lb in certain positions, do not exceed rig release hook capacity.
RCL Errors

You may get an error code from your crane RCL (Rated Capacity Limiter) system if you bump the manual levers while operating the crane with the radio. This error will be indicated with a steady tone from the RCL system.

- Try to clear the error by toggling the Crane Power toggle switch next to the manual levers to the down (off) position. Wait several seconds.
- Toggle the Crane Power toggle switch to the up (on) position.

Your radio will time out during this process. When crane power is restored, press the green button on the radio to re-activate the remote and continue operating. If you still have an error code, investigate the causes of errors more completely using the RCL manual.
Crane Overload

Overload is when your crane load moment is at 100% of capacity. In overload:

- The 80% through 100% red diodes are constantly lit.
- The P1 diode is constantly lit.
- The buzzer on the remote will sound constantly.
- The loader suddenly stops working.
- The RCL display reads t.c.l. (Traditional Capacity Limitation)

You can begin to get out of overload when:

- You have released all remote levers to neutral positions.
- The buzzer on the remote sounds intermittently.
- The P1 diode flashes.

Move the crane into a position which reduces the load moment, such as boom down or extension in, to get out of overload. If the loader won't move, you can push the red override button on the RCL, and you will have five seconds to move the crane into a load reducing position.
Absolute Stop

If you do not reduce the crane load moment and continue to operate the crane in overload conditions, you will reach absolute stop. The crane will not function at all.

In absolute stop:

- The 80% through 100% red diodes are constantly lit.
- The P1 diode will flash.
- The buzzer on the remote will sound constantly.
- The RCL display reads S.t.P.

You must call an authorized service center to get your crane out of the absolute stop condition.
Crane Radio Failure

If your radio remote fails, the RUN and FUNC diodes on the RCL panel will flash. You will not be able to run the crane with the remote.

To change to emergency, manual mode,

1. On the RCL panel, press and hold the yellow button while pressing the red button. The RUN and FUNC diodes on the RCL panel will still flash.

2. To verify the crane can be manually controlled, push the red button on the RCL panel. The 100% diode will flash. If it does not, repeat step 1.

3. To return to the remote control mode, repeat step 1.
Rig Release Hook

The Rig Release Hook allows you to release the rigging and set loads down from a distance. When loaded, the rig release lift arm locks the sling in place and the rigging cannot be removed. Once the load is set and the loadline is slack, you can release the load using a remote-controlled rigging disconnect, which is part of the crane remote.

Rig Release Hook Warnings

CAUTION

Avoid serious injury or equipment damage! Read and follow rig release hook instructions. Heed all rig release hook warnings.

NOTE

Crane capacity may exceed hook capacity. Do not exceed maximum capacity rating.

1 Before each use, inspect the 12VDC remote-controlled rig release hook for damage or wear. Check for bent or missing components, broken or weak springs, loose bolts, cracked welds, or worn areas. If the inspection reveals any defect, remove the unit from service and report the issue to a designated person. All components must be in place and functioning properly to ensure operation as intended. Missing or defective components may cause an unsafe lifting condition.
2 Never exceed the unit’s rated capacity 5,000 lb (2.5 tons) or the riggings’ capacity, whichever is less.

3 Rigging weight cannot exceed the maximum rigging load indicated on the unit. The 2.5-ton unit is capable of no more than 20 lb. of rigging weight. Excessive rigging weight prevents the torsion spring from releasing the lift arm assembly. Do not place a web sling directly on the lift arm, as the web sling material prevents proper lift arm release.

4 The minimum load for the rig release hook is 40 lb for a straight pull and 80 lb. for a basket hitch on the arm. This minimum load locks the rig release, engages the release pin linkage, and ensures the lift arm does not release unexpectedly. Lifting a load less than the minimum (40 lb - straight pull or 80 lb - basket hitch) causes an unsafe lifting condition.

5 Four extension springs are installed in the rig release hook. Do not install additional or stronger springs. Use only IMT-approved replacement springs.

6 Always use latches on all hooks.

7 Do not lift people. Do not lift higher than necessary. Do not leave load unattended while suspended.

8 Avoid entangling or catching rigging on objects.

9 When using web slings, attach a steel shackle or steel oblong to the lift arm, then attach the web sling to the steel shackle or steel oblong.

**Rig Release Hook Operation**

1 Lower the rig release hook to the load. Open the lift arm using the hook release function on the crane radio remote control or by pressing the green manual release button on the side of the hook.

**CAUTION**

The hook release function on the remote will only operate when there is no load on the hook! Avoid injury! The spring-operated lift arm on the rig release hook snaps open quickly! Keep clear.
2 Attach the sling to the load using proper hitching methods. If loading bags, route the sling strap through the handles on the bags. Attach the other end of the sling strap, with the metal oblong, to the lift arm.

![Diagram showing lift arm, lever, and sling](image)

3 Move the lift arm lever up to the closed position. This will close the lift arm.

**CAUTION**

Make sure the lift arm catch is completely closed.

4 Move the load to the desired position, keeping tension in the rigging. Carefully set the load down on the ground or in the container, in a completely supported position. The holes in the crane side of the container allow you to see the load. Lower the crane hook to create slack in the load sling. Once there is no load on the hook, use the hook release button on the crane remote or the green manual release button on the rig release hook to open the hook and release the load.

5 Avoid sling damage. Before moving the vehicle, reattach the sling to the lift arm.
**Manual Release**

The rig release hook is released with the crane remote control. In case of a remote electrical failure, there is a manual release button which releases the hook in a no load position. Before using the manual release, position the crane so the load is on the ground or in a supported position. Then press the green manual release button to release the load from the lift arm.

**NOTE**

The emergency manual release only works in a *no load* situation. The load must be supported.
Picking up a Load

1  Move the crane into position so the hook strap is centered over the bag.
2  Release the hook strap using the hook release on the transmitter.
3  Connect the hook strap to the bag. Weave the hook strap through the two straps on the bag, push the metal ring on the end of the strap into the middle of the hook, and lock the ring into place.
4  Stand clear.
5  Lift your load.
6  Retract the boom to bring the load in toward the container box.
7  Make sure the load is high enough to clear the back of the container.
8  Lower the bag into the container. Use the windows at the front of the container to position the bag in the container body.
9  Once the load is placed in the container and the straps have slack, release the hook and raise the boom.

**NOTE:** The hook will not release unless there is slack in the straps.

10 Move the crane toward the stowing position. When you can reach it, re-attach the metal hook ring to the end of the hook.
11 Stow the crane.
Load Weight

Your crane remote is calibrated with a 1,200 lb load with all extension booms retracted and the inner and outer boom straight out, nearly parallel to the ground. When you position another load in this position and the remote is set to indicate load weight, you can determine the weight of that load.

To weigh a load, position the crane as shown:
- Inner and outer boom nearly horizontal
- All extensions retracted.

Check the remote control screen. If it shows the Load Weight Icon, and the crane is in the right position, the weight of the load will display in the lower right corner of the screen.

If the screen doesn’t show the load weight icon,
- Flip the option toggle.
- Scroll through the screen options by pressing the yellow button until you see the load weight icon.
- Then, if the crane is in the right position, the weight of the load will display in the lower right corner of the screen.

Stowing the Loader

1. Retract all extensions
2. Rotate the loader to the stowing position, such that the alignment decals on the crane base and mast line up. (Or center the grease zerk on the bottom of the crane mast with the base.)
3. Lower the outer boom until it is positioned at the crane base. (Use the outer boom up lever.)
4. Lower the inner boom until it is stowed in the stowing bracket.
Retract and stow the stabilizers per the section on Retracting Stabilizers.

Retracting Stabilizers

Press the yellow button on the transmitter twice to get into Stabilizer Mode.

**CAUTION**

Avoid damage! Retract stabilizers before moving vehicle.

1. Raise the power down cylinder until the cylinder foot is just lifted off the ground.
2. Disengage the locking pin at the top of the cylinder. This will allow the power down cylinder to swing freely and to auto-rotate.

**CAUTION**

Avoid moving stabilizers! The unit has swing-up stabilizers that extend 7-feet (2.1 m) from each side of the unit. Stand clear.
3 Continue to retract / raise the power down cylinder, *slowly*, until the cylinder is completely retracted and the stabilizer has rotated to contact the rotation stop.

4 Retract the power-out stabilizer arm, using the Power Out control lever.

5 Verify the stabilizer arm is completely retracted and the stabilizer latch has slipped in place.

**NOTE**

Never retract / raise the power-down cylinder unless rotation lock is disengaged. If the pin is engaged when the stabilizer is retracted, you will damage the auto-rotate mechanism.
Crane-Stabilizer Stow Light Option

IMT offers an accessory which indicates with a flashing light if the crane and both stabilizers are fully stowed when the ignition is “hot”. This optional kit will provide an easy visual aid to remind the operator to stow the crane and stabilizers before moving the vehicle.

The crane-stabilizer stow kit can be installed with a new Bagster order or retrofitted onto an existing Bagster. The kit includes proximity switch assemblies which mount at each stabilizer housing and on each stabilizer arm, and a spring-actuated switch which mounts to the crane boom stow. The switches are wired to a light mounted on the bracket below the RCL 5300. When the crane and stabilizers are NOT fully stowed, the operator will see a flashing yellow light in his rear view mirror as he sits in the driver’s seat to drive the truck.
Container Tarper

The container tarper operation is controlled using the radio remote. All loads must be tarped before they are transported. Cover the body with the tarp using the tarper control. Follow the tarper manual for tarper operation.

Hoist Operation Mode

Use *Hoist* mode to dump or remove roll-off.

**Hoist Mode - Dumping**

1. Turn off the crane power (*Crane Mode* switch) on the power tower in the cab. The green light will go off.
2. Turn off the engine, battery, and propane fuel source.
   
   Open the door at the back of the container, and lock it in the open position.
   
   **CAUTION**
   
   Avoid equipment damage! Never move container backward or forward on hoist with electrical harness connected.

3. Dump the container per the instructions in the hoist manual.
Hoist Mode - Container Removal

1. Turn off the engine, battery, and propane fuel source.
2. Disconnect the green wiring harness.
3. Disconnect the ratchet straps.
4. Turn off the crane power (*Crane Mode* switch) on the power tower in the cab. The green light will go off.
5. Engage the PTO or crankshaft-driven pump.
6. Remove the container, using the guidelines in the hoist manual.

Transport Mode

Before moving the vehicle to a different location:

1. Stow the crane. Retract and stow the crane stabilizers.
2. Kill the engine power.
3. Turn off the battery.
4. Disconnect the green electrical cable.
5. Turn off the propane fuel source.
6. Turn off the crane power using the *Crane Mode* switch on the power tower in the cab.
7. Turn off any job site safety lights, including truck hazard lights and strobe lights, if applicable, before driving the vehicle. Follow all transport safety regulations.
Tethered Remote

In case of radio failure, your crane is equipped with a cable for tethered remote operation. Connect the tether to the fitting inside the RCL box as shown, and to the tethered cable connector on the radio remote.
Refuse Container with Loader Maintenance Tasks

Inspections

Complete daily, weekly, monthly, and periodic inspections as noted in the General Reference section of the Material Handling Crane Operation & Safety manual, IMT # 99904591.

High-Pressure Filter

The filter should be changed annually or more frequently if needed. Replacement parts for the high-pressure filter include:

- Filter element - 49402
- Seal kit - 49417
Boom Tip Grease Zerks

Most of the grease and lubrication requirements for the Refuse Container with Loader are listed in the maintenance section of the crane manual, Material Handling Crane Operation & Safety, IMT # 99904591. The Refuse Container with Loader has two additional grease zerks which are not part of the crane, located near the rig release hook as shown. Grease, using Shell Alvania 2EP, Shell Retinax "A", Mobilith AW2 or equivalent, every six months.

Repositioning the Crane for Maintenance or Service Requirements

Since this model of the Refuse Container with Crane includes a secondary engine, it can be moved or repositioned for service without being mounted on a truck.

WARNING

Use extreme caution when repositioning the crane if the refuse container with crane unit is not connected to a truck. Move slowly. Do not use the crane for lifting.

The green electrical cable comes with an additional end connection which is wired for a 9V battery. When you plug a 9V battery into this connection, and then plug in the green electrical cable, the crane sees an electrical signal from the chassis which allows it to be operated. The engine still powers the crane, but this plug allows the crane to be moved for repair or maintenance purposes.
Troubleshooting

Use this connection if you need to move the crane to access grease zerks, or to perform any service or repair work.
<table>
<thead>
<tr>
<th>Condition</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane will not work</td>
<td>Secondary engine is not functioning.</td>
<td>Check propane fuel source, battery, and engine.</td>
</tr>
<tr>
<td></td>
<td>Green electrical harness is not connected.</td>
<td>Connect electrical harness at the front of the container.</td>
</tr>
<tr>
<td></td>
<td><em>Crane Mode</em> switch in cab is not turned on.</td>
<td>Turn on <em>Crane Mode</em> switch.</td>
</tr>
<tr>
<td></td>
<td>RCL safety system is not on.</td>
<td>Make sure all emergency stop buttons on the remote and RCL are released. Start the RCL by</td>
</tr>
<tr>
<td></td>
<td></td>
<td>turning on the remote and pressing the green button.</td>
</tr>
<tr>
<td></td>
<td><em>Crane Power</em> toggle near manual control levers is</td>
<td>Flip up (on) the <em>Crane Power</em> toggle.</td>
</tr>
<tr>
<td></td>
<td>flipped down (off).</td>
<td></td>
</tr>
<tr>
<td>Crane and roll-off container</td>
<td>Clamps pins are not fully engaged.</td>
<td>Check both sides of the vehicle for clamp pin engagement. Reposition the vehicle so it is</td>
</tr>
<tr>
<td>lean or tilt unexpectedly during rotation.</td>
<td></td>
<td>more level if the clamp pins are only closed on one side.</td>
</tr>
<tr>
<td></td>
<td>Stabilizers are not fully deployed.</td>
<td>Deploy stabilizers.</td>
</tr>
<tr>
<td>Clamp pins are not engaged.</td>
<td><em>Crane Mode</em> switch in cab is not turned on.</td>
<td>Turn on <em>Crane Mode</em> switch.</td>
</tr>
<tr>
<td></td>
<td>Pneumatic failure.</td>
<td>Test pneumatic function using the override button for the solenoid in the control panel.</td>
</tr>
<tr>
<td>Condition</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hoist will not work.</td>
<td>Clamp pins are closed.</td>
<td>Open pins by turning off crane power (Crane Mode switch) in the cab.</td>
</tr>
<tr>
<td>Rig release will not work.</td>
<td>Wiring failure</td>
<td>Check wire connections at top of rig release.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lower load to ground. Use manual release button.</td>
</tr>
<tr>
<td>Vehicle moves very slowly.</td>
<td>Dash-mounted warning light is lit.</td>
<td>Check that the hoist is lowered completely.</td>
</tr>
</tbody>
</table>