



Operation and maintenance manual for your bin

Detailed description of the warranty

Installation of the equipment on your

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I received and took notice of the manual on

Date \_\_\_\_\_

Name \_\_\_\_\_ Signature \_\_\_\_\_

Agent \_\_\_\_\_

Name \_\_\_\_\_ Signature \_\_\_\_\_

Champagne et Frère agent

***Everyone using this vehicle must take notice of this operating manual. Before trying to handle this vehicle, inspect it in order to make sure that all necessary safety equipment is in place and in good working condition. Check that all danger and caution stickers are in place, well in sight of the bucket operators.***

**1. Important:** When the bin is in a raised or elevated position in order to perform repairs or settings, it must be blocked or firmly supported making it impossible for it to fall back. Omitting this precautionary step could result in serious bodily harm or even accidental death.

**2.** All tools or other operating equipment for this vehicle, which are not stored away or in a fixed position, should be put away in a tool box outside the cabin.

**3.** Do not empty the bin on an uneven terrain or on recently filled or excavated grounds.

**4.** Make sure that the tire pressure is correct.

**5.** Make sure that springs and suspension components are in good condition.

**6.** Make sure the brakes on the vehicle are firmly and suitably engaged before activating the bin mechanism.

**7.** Check for hanging wires or any other overhead obstructions.

**8.** Always inspect the bin mechanism and the bin bucket itself before using. If there is any sign of inadequate maintenance, damage to essential parts or loose fixation parts, do not use the bin mechanism. Do not try to make repairs unless you have specifically received the required training.

**9.** Do not overload the bin. Consult the manufacturer's documents and/or the gross value stickers on the vehicle to know the permissible useful load. Do not forget that the permissible useful load is the maximum load attributed to the bucket and its mechanism. The maximum useful load must never be considered as the gross vehicle weight rate (GVWR), indicated on the certification label. In all cases, the gross weight indicated concerning the (GVWR) or the gross axle weight rate (GAWR) appearing on the certification label must apply.

### **DO NOT SURPASS THE (GVWR) or (GAWR)!**

**10.** All loads, without exception, must be stably loaded and equally spread in the bin.

**11.** Do not leave the vehicle during the unloading cycle. Stay in control. Unlock the control mechanisms on the back panel before raising the bin. If the panel is chained, be especially careful not to raise the bin too fast or too high. The vehicle could tilt back and cause important damage and/or bodily harm!

**12.** Place the tumbler in neutral position just before the bin mechanism reaches its highest point. Avoid squealing of the valve. Do not stand or walk in the vicinity of the bucket in function, nor in the vicinity of an unstable load or where the bin could be unloaded. Make sure no one else does this.

**13.** When the bin is stopped or not in function, it must be completely down (shut off) and firmly set on the chassis or the frame of the bin mechanism. Make sure the power take off is released. Placing the command of the bin mechanism in neutral position or on standby will minimize leakage from the joints while the mechanism is stopped. The key should never be left in the contact to avoid being used by non-authorized persons.

**14.** Regularly inspect the vehicle making sure that all safety equipment required by federal or provincial laws are installed, are in good working condition and are used efficiently.

### **Raising the bin**

Before raising the bin, open both cabin windows, turn off all electronic devices such as CB, CD/cassette/iPod players etc. making sure you can hear all voice commands. Do not rev the engine.

- Start the power take off;
- Apply the brakes;
- Press on the clutch pedal;
- Shift the power take off mechanism;
- Position transmission in neutral;
- Depress the clutch pedal.

After engaging the power take off mechanism and placed the bin raising device in raising position, the bin will start rising. A brief moment of hesitation is normal, the pressure rises and the pipes expand in order to receive the load. The air confined in the hydraulic system increases the ascending time causing jerking of the bucket mechanism. This situation must immediately be corrected by purging the system. If the bin mechanism is equipped with a telescopic cylinder, make sure the cylinders always rise in sequence: the cylinder with the largest diameter should open first and be the last to close. Discontinue activating the telescopic cylinder if the cylinders of the bin mechanism rise in the wrong sequence.

Continuously check your mirrors. Make sure there is no one in the danger zone. Pay particular attention to a non-levelling of the load since there is a backwards weight transfer during the unloading. When in doubt, bring the bin down carefully, move the truck and resume the manoeuvres.

Do not rev the engine. The revolutions of the engine vary between 1200 and 1500 RPM (1000 RPM on a pump constitutes a normal ratio for the power take off mechanism) should be sufficient to raise the load. An excess load or exceeding 1000 RPM on your pump (between 1200 and 1500 RPM on an engine with a normal power take off mechanism, check if you are not sure!) will void the warranty and cause premature wear of the mechanism.

**This could also cause an accident, injury and destroy the pump.**

**Note:** If necessary, in very special cases, make sure that the back panel on the dump truck be fixed only with inferior pins of the panel. Be very careful not to damage the vehicle or the bin or harm someone. When the back panel is hung in this position, never move the truck or start the unloading mechanism! If the chamber of the bin needs a nearby back access for loading or unloading, the following methods should be privileged.

- Remove the back panel completely and replace when the work is done;
- Using the chains on the back panel, and keyholes in the corner posts of the bucket, place the back panel in a horizontal position.

## Lowering the bin

Having unloaded and received the order to move by the person responsible or after performing a personal inspection of the unloading area making sure there is no one around and there are no problems, lower the bin completely. Where there is a double acting system, **keep the pump working** while lowering the bin. Omitting these causes an air intake in the system and the tank could overflow. Do not lower the bin too fast; it could damage the bin or the truck.

When there is a double acting system, keep the valve in the lowering position until it starts to skip or makes a squealing sound, indicating the bin is in place on the chassis.

Disengage the power take off mechanism. Do not try to move the vehicle as long as the bin is not lowered. Lock the back panel before moving.

**Important:** To distribute the contents of the bin evenly, we tend to believe that it is best to move the truck while the bin is in the upward position. This is extremely dangerous and you are putting yourself at great risk when doing so. Make sure your field of vision is well supervised. Never use a speed greater than a slow walk. Avoid quick movement of the steering wheel, pot holes or anything affecting the stability of your vehicle. While distributing the load, you are responsible for damages or accidents, including capsizing, the load going to the sidewalls and/or the tilting of the truck. This could result in bodily harm and even death. Always use chains and retention springs when distributing the load in order to reduce the danger of tilting the truck.

## After unloading

Check the peg locks constantly to ensure they are in good working condition. Make sure the power take off mechanism is completely disengaged and the unloading mechanism is in neutral position. Perform a visual check making sure the bin is well lowered. Ensure your bin is clean so as not to lose leftovers on the road making it dangerous for other drivers.

Do not slam the back panel on the bin to eliminate residue. This could cause bodily harm or weakening of the coupling mechanism on the bin and its premature wear, and also the premature wearing of the back panel of the bin. Do not shake the load to unload it. The hydraulic hoists are made to raise the loads and not to act as structural elements, stabilizers or holding devices. If your loads constantly block, contact your distributor about heating systems, curved plates, vibrators and holding chains or other holding systems. Do not move the truck when the bin is in an upward position. Dump trucks are designed to have a low center of gravity.

When the bin is elevated the truck is not designed to move at a speed superior to a slow walk and on a flat compact surface on short distances. Not respecting this precaution can cause damage or mechanical weakness, tilting of the vehicle, injury or accidental death.

## General pointers

1. Maintain your bin and its mechanism according to the included instructions.
2. Use original replacement parts. Do not try to repair the bin or its mechanism without first being aware of the exact nature of the material in question. When in doubt, contact us. In any case, we know your equipment, and are trained to make the repairs.
3. Do not operate the pump longer than it takes to unload. Your pump is not designed for anything else. If you need hydraulic power for continuous operation of equipment, contact us to find out about a «central hydraulic system».
4. A hydraulic cylinder is not designed to resist loads on sidewalls, or to be used as stabilizers, or to keep the bin or the base frame from moving.
5. During prolonged storage, the mechanism of the bin should be regularly raised and lowered to lubricate the holes and slider gaskets. The interval between two activations depends on the environmental conditions, but should never be more than one month.
6. Do not store or immobilize the hydraulic system with the bin raised in such a way that the base of the casing or the bin mechanism is above the lowest nut on the cylinder of the bucket mechanism. Make sure the rubber gasket on the top part of the casing is intact and waterproof enough to prevent water infiltration.

## Trouble shooting

### **Problem**

***Oil scum on the reservoir and while in operation, you can see scum coming from the reservoir vents.***

**Cause:** Wrong kind or contaminated oil.

**Solution:** Change the kind of oil (hydraulic oil should contain anti-scum agents).

**Cause:** The suction line leaks and lets air into the system.

**Solution:** Repair the leaks.

**Cause:** The bin rises too quickly using the pump and a speed superior to that for which the mechanism was designed, thus causing cavitation or an insufficient oil input. A too high lowering speed causes swirling of the oil returning to the reservoir.

**Solution:** Slow down the unloading cycle until the scum creation stops.

### **Problem**

***The vehicle sways when the bin is raised. The bin sways from front to rear in a perceivable motion.***

**Cause:** The rods and articulations may be worn to the point where they have surpassed the normal tolerance levels. If the movements continue or worsen, this could cause breakage.

**Solution:** Replace the defective parts.

***A long and /or supple frame can cause this. You must be particularly careful when unloading.***

### **Problem**

***The bin shakes causing jerking.***

**Cause:** There is air in the system.

**Solution** Purge the cylinders according to the manufacturer's instructions.

### **Problem**

***The bin rises very slowly or doesn't rise at all.***

**Cause:** Worn pump.

**Solution:** Replace or repair the pump.

**Cause:** Overloading, thus refusing to unload.

**Solution:** Do not exceed the recommended weight load. We have adjusted the pressure of your hydraulic system so it corresponds with the legal capacity of your vehicle. Increasing the pressure by altering the position of the release valve can cause important damage and/or serious injury. Unload the contents with a shovel or a backhoe until the bucket can rise.

**Cause:** Maladjusted, blocked or worn valves.

**Solution:** Have qualified personnel check the unloading mechanism. Replace or repair the valve.

**Notice:** Do not try to adjust the release valve. Adjusting this valve could cause a serious accident or void your warranty.

### **Problem**

***The cylinders of the bin mechanism rise out of sequence (The cylinder with the largest diameter should open first and close last.)***

**Cause:** The interior of the cylinder is damaged.

**Solution:** Repair or replace the cylinder.

**Cause:** There is air in the system.

**Solution:** Purge the air in the system.

### **Problem**

***The bin lowers too slowly.***

**Cause:** The flow control valve leaks.

**Solution:** Repair or replace the valve.

**Cause:** The cable or bar controls are maladjusted.

**Solution:** Adjust the valve.

### **Problem**

***The bin rises unevenly.***

**Cause:** The load is jammed in the bin.

**Solution:** Carefully lower the bin and unload with a shovel, a backhoe or by hand.

**Cause:** Unloading on uneven grounds.

**Solution:** Immediately lower the bin carefully and move the truck to safer grounds.

**Cause:** The frame, the bin mechanism or the bin itself are twisted.

**Solution:** Repair the damaged component.

## **Preventive maintenance**

***Before raising the bin for any kind of maintenance block or firmly support the bin so it cannot go down.  
Omitting this precaution can cause serious injury or accidental death.***

- 1.** Keep your vehicle as clean as possible. When washing the bin mechanism and the under part of the bin, make sure the bin is firmly supported and that this support is totally independent of the bin rising mechanism. In areas where calcium is used on roads during the winter months, wash your device before storing for the weekend. Avoid directly hosing down the valves and reservoir vents.
- 2.** After washing, inspect all hoses and pipes making sure they are free of wear and friction.
- 3.** Inspect all mounting brackets and bolts. Tighten the bolts if necessary.
- 4.** Inspect back hinges to see if there are signs of wear or shows weld failure. Make sure the hinge pins are firmly locked in place.

5. Inspect all pins on the rising mechanism making sure they are firmly locked in place. Check the piston rods and cylinder nuts.
6. Check the power take off mechanism every day making sure there is no transmission liquid leakage. Check the power take off bolts and oil level every week.
7. Grease and lubricate the crankshaft pins, hinges and controls as needed.
8. Inspect all cylinder nuts and mounting bolts. Regularly check hinges, chains, etc., making sure they are not loose and do not show signs of wear. Make sure the bin is firmly supported when making these inspections or before going under the raised bin or for any other reason.

**Notice:** All loose cylinder nuts are an indication of potentially serious problems. Such a situation should be immediately looked at and corrected by qualified personnel before using the bin mechanism.

## **Useful life duration**

Your vehicle should provide fine service for many years. Intensive and continuous use will shorten its useful life and shorten periods between inspections. A good maintenance program and replacement of worn parts will prolong its useful life. However, do not try to repair the vehicle after its useful life. We are the best placed to advise you on this subject. Do not use your own judgement to evaluate whether or not to keep the vehicle in circulation. Repairs done to a vehicle subjected to important damages are often at risk. Once the structural elements of the rising mechanism of the bin have been submitted to significant pressure whereby certain welds or bolts are broken, it becomes impossible to totally and precisely repair the visible damages. X-rays or ultra sounds would be needed to accomplish this, at a much higher cost than the repairs themselves. In most cases, it is wiser to totally or partially replace the part. We are best placed for these decisions.

## **Remounting or modifying**

We are the best qualified to remount your equipment on another frame. We are aware of all the federal, provincial and municipal regulations applied in order to properly certify your vehicle. If you remount your bin yourself, you must be aware that you are taking full responsibility to respect regulations and to keep on file proof of the work done and making this proof available to government inspections. If you insist on doing the work yourself, you are taking the risks involved in the observation of these regulations. In addition to this risk, there is a greater danger that you have modified certain characteristics of your vehicle making it hazardous, for which you must take full and exclusive responsibility.



## Warranty

Champagne et Frère, guarantee that their products are free of all material or manufacturing faults for a period of (12) months after the initial date of sale. This guarantee is specific to replacing or repairing of said parts. Transport costs will be charged.

**THE OBLIGATION OF CHAMPAGNE ET FRÈRE AT THE TERMS OF THIS AGREEMENT DOES NOT INCLUDE THE COSTS INCURRED BY ANYONE ELSE FOR LABOR, OR DAMAGES CAUSED IN ANY WAY. THIS WARRANTY OVERRIDES ALL OTHER GUARANTEES, EXPLICITES OR IMPLICITES, AND IS THE ONLY GUARANTEE BY WHICH THE SAID PRODUCTS HAVE BEEN SOLD TO THE BUYER. NO OTHER WARRANTY EXISTS OR WAS MADE, EXPLICITLY AND IMPLICITLY, ALL BUYERS HAVE HEARBY FORMALLY WAIVERED ALL GUARANTEES PROVIDED BY LAW AND THESE HAVE PURPOSELY BEEN EXCLUDED IN THIS TRANSACTION. THE RESPONSIBILITY OF CHAMPAGNE ET FRÈRE RELATIVE TO THIS SALE IS SPECIFICALLY LIMITES TO REPAIRING OR REPLACING THE FAULTY PARTS, AS MENTIONNED ABOVE. BY THE PRESENT, ALL BUYERS WAIVER THESE GUARANTEES FOR ALL OTHER DAMAGES, WETHER THE CLAIM FOR DAMAGES BE LEGAL OR OTHER.**

The present guarantee applies only to new unused products which have not been altered, modified, repaired or treated in any way and have not been used incorrectly or abused, been neglected or damaged. No guarantee whatsoever, provided by law, implicit or otherwise, applies to components not manufactured by Champagne et Frère. All components not manufactured by us are only guaranteed by standard warranties, in which case, the manufacturer of the part and Champagne et Frère does not take responsibility for these. No one, in any way, may modify this guarantee, or the present contract in any way. All claims by virtue of the present is void, unless presented to Champagne et Frère in writing on the Claim request form standard to Champagne et Frère and received within (12) months following the original date of sale.

We thank you for believing in us



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