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**READ ALL SAFETY AND OPERATING INSTRUCTIONS PRIOR TO
USING THIS EQUIPMENT.**

OWNERS MANUAL

FOR

Cart-Away CLP LoadPro Loading Units

Customer Name: _____

Equipment Type: _____

Purchase Date: _____

**READ ALL SAFETY AND OPERATING INSTRUCTIONS PRIOR TO
USING THIS EQUIPMENT.**

Please have the above information available when ordering parts or seeking any information on your equipment. The Parts and Service Department is available to you 6-4 Monday through Friday (PST): 800-909-9809.

RULES FOR SAFE OPERATION

This equipment is a sophisticated, yet simple, piece of machinery. It is designed to transfer aggregate and cement at high speed. Moving parts are regulated manually but their start is instantaneous. Anything caught in these moving parts may be crushed or torn in a fraction of a second. Therefore, **it is extremely important that all safety precautions be strictly adhered to in order to prevent an easily avoidable injury.**

1. Know the equipment's controls and how to stop it quickly. **Read this Owner's Manual!**
2. **Instant stopping of all moving components is achieved by pushing in the hydraulic lever or turning off the engine.**
3. Do not allow children to operate this machinery. Do not allow adults to operate it without proper instruction.
4. Pay attention to who is around the equipment. Caution everyone to stay away from all moving parts. Keep customers at a safe distance.
5. Keep your eyes and mind on the machine's procedures. Don't let other interests distract you.
6. Always operate the equipment while standing in front of the control panel.
7. Clear the work area of objects that might be tripped over or fall into moving parts.
8. Always turn off the engine on the equipment before making adjustments or repairs unless otherwise instructed by this manual or the Service Department at Cart-Away.
9. Take all possible precautions when leaving the machine unattended.
10. Always turn off the engine before reaching on to the loading belts. **DO NOT under any circumstances reach on or into to the loading belt while the power is on.**
11. Do not allow anyone to stand or walk under the main loading belt at any time.
12. Never place hands or feet on or in moving parts.
13. Always wear substantial footwear.
14. Do not wear loose fitting clothing that could get caught in moving parts.
15. Wear eye protection when operating the equipment.
16. Only operate the equipment outdoors or in a well ventilated area.
17. Wear dust mask when doing end of day sweep or when operating under very windy conditions.
18. Use care when moving the trailer or hopper structure.
19. When loading a customer never allow anyone to stand close to the discharge end of the loading belt.
20. Only operate the equipment on a level surface.
21. Keep the loading belt in good working order and keep all safety devices in place.

22. Keep all nuts, bolts, and screws tight to be sure that the equipment is in safe working order.
23. Keep belt tension properly adjusted and regularly check tracking.
24. Do not change factory settings concerning hydraulic components.
25. Use the equipment only in daylight or good artificial light.
26. Never make a mechanical adjustment while the equipment is running unless advised to do so in this manual or by factory personnel.
27. **If you don't know...ASK!!! (See page 14)**

MATERIAL SELECTION

A LoadPro allows you the ease of buying a singular pre-mixed con-mix or separate sand and rock to supply your Customers. By buying separate aggregates you have a variety of mixes to offer to your customer also. With that comes the choices you need to make in the materials you offer.

If you are able to buy pre-mixed con-mix in your area, you can offer the customer a choice between two or more different mixes that is already blended for you convenience. For instance, a pea gravel mix for fence posts, block wall grouting, exposed aggregate, or a shallow pour. Or a larger aggregate mix for more strength or deeper pours.

You can also purchase the aggregates separately. You can still offer the customer a choice between two or more different mixes, but you can also run a sand slurry for them in certain circumstances.

Regardless of your situation, the material you choose plays an important part in a proper mix design. And different mix designs can net you larger profits.

We at Cart-Away specialize in mix design for our equipment. Using our Industry Standard Measurement (ISM) we can help you in selecting aggregates for your system.

Should you have any questions in concern to mix design or choosing aggregates, see page 14 and contact Cart-Away.

WATER REQUIREMENTS PER YARD OF CONCRETE

The actual amount of water required per yard of concrete can vary widely due to seasonal changes and customer requirements.

The 'rule of thumb' is one gallon of water per cubic foot of concrete. That's 27 gallons of water per yard. However, we recommend a starting point of 18-20 gallons. This may or may not be the right amount for you, and the water content of your material will change this setting as the seasons change, but this a good starting point.

This 'target amount' should leave the mix slightly dry. **NEVER** send out an overly 'wet' load with a customer. Not only does the extra water dilute the mix and make concrete weaker, there is a chance of spillage from the trailer with an overly wet load. **IF YOUR CUSTOMER WANTS A WET LOAD, THEY CAN ADD WATER AT THEIR LOCATION!**

Questions as to when to add water, and how much to add are addressed in the 'Operations' portion of this manual.

If you have any questions at all, please ask the factory service technician. See page 14 of this manual for contacting us.

OPERATING PROCEDURES

1. Fill the hopper with the appropriate amount of aggregates to make the desired mix.
2. Break the required number of cement bags onto the aggregate.
3. Ready the Rotating Drum Trailer for loading:
 - Start the engine on the trailer. Set the throttle at wide open.
 - Set the speed control on the trailer to zero (3 o'clock) and push the 'Mix/Dump' lever down to the 'Mix' position.
 - Set the flow control to 10 (6 o'clock)
4. Start the engine on the LoadPro. Set the throttle at wide open.
5. Reset the digital water meter by pressing and holding the button for a few seconds.
 - NOTE: The digital water meter is also a totalizer. If you press the button on the water meter for a few seconds and it does not reset, check the display on the left. You may be on 'TTL2', which is the accumulative total of all gallons through the meter and will not reset. Press the button on the meter briefly and 'TTL1' will appear. This is a resettable function. Pressing and holding the button while 'TTL1' is displayed will reset the meter to zero in a few moments.
6. Turn the ball valve on the water line on and start the flow of water into the trailer. Put about a third to a half of the 'target' amount in before proceeding.
 - The exact amount of water added before proceeding is not important at all. What is important that the water valve is turned off when you reach the target number for the load you are mixing no matter when that happens.
7. Pull back on the hydraulic lever to start the loading of aggregates and materials.
8. Watch the water meter and be ready to turn off the flow at the 'target' amount if necessary!
9. Allow all materials to enter the drum of the Mixing Trailer.
 - Some of the last remaining aggregates may need to be pushed onto the conveyor belt with a shovel when the materials have a high degree of moisture.

10. When all of the materials have been loaded into the Mixing Trailer, push in the hydraulic lever to stop the loading belt.
11. Ask the customer to pull forward a few feet so you may see the mix inside the trailer. Use the garden hose to add water as necessary.
 - **REMEMBER:** NEVER send out a 'wet' load with a customer. Not only does the extra water dilute the mix and make concrete weaker, there is a chance of spillage from the trailer with an overly wet load. **IF YOUR CUSTOMER WANTS A WET LOAD, THEY CAN ADD WATER AT THEIR LOCATION!**
12. Level the trailer and set the flow control to between 2 and 3.
13. Send customer out after reviewing operating instructions for the trailer.
14. If you have other customers ready to load, back them to the appropriate position, and repeat the above.
15. If no other customers are waiting, turn of the engine of the LoadPro. **DO NOT RINSE THE UNIT DOWN BETWEEN LOADS!**

The order of the above procedures are suggestions only, but we at Cart-Away have found this to be the most efficient way to operate the equipment and recommend that you follow these steps in order as well. Deviating from these steps can cause a loss of efficiency that will result in longer stand by time for your customer.

CONVEYOR BELT ADJUSTMENT

The tracking of the belts is set at the factory but numerous things can affect it. Follow the steps below to adjust the tracking of the conveyor belt.

Note: Wear of the belt, build up of material on pulleys, changing a belt, and improper loading of the hopper can effect the tracking. These and other conditions warrant attention to the belt at all times.

CERTAIN SAFETY PRECAUTIONS ARE OUTLINED IN THE FOLLOWING PROCEDURES. FOLLOW THEM TO ENSURE THE SAFETY OF EMPLOYEES DURING THIS MAINTENANCE!!

The loading belt is the belt that runs beneath the hopper to deliver material to the Mixing Trailer. To adjust the belt make sure the hopper is empty.

1. Start the engine of the CLS Loader.
 - **THE FOLLOWING SAFETY PRECAUTIONS MUST BE FOLLOWED BEFORE PROCEEDING:**
 1. A second employee will be required to do the adjusting of the belt, while an operator stands by at the control panel to shut down the system in case of emergency.
2. One employee should move the lever of the hydraulic valve to start the loading belt.
3. Have the other employee at the rear of the machine watch the belt as it comes around the pulley and enters the hopper at the back of the slider bed.
4. The conveyor belt should ride on the rear pulley, and enter the slider bed, with equal amounts of belting showing on both sides.
5. If this is not the case, adjustment of the rear pulley shaft will be necessary. Follow the procedures outlined below:
 - **All directions concerning 'left' and 'right' are in relation to the travel of the conveyor belt away from you (toward discharge end).**
 - If the belt is tracking to the right, it will be necessary to straighten the pulley at the take-up frame on that side. This is done by tightening the adjustment bolt on the right take-up frame.
 - **Note: Make adjustments gradually!** A small (1/4) turn of the adjustment bolt will create noticeable movements of the belt!
 - After making small adjustments, return to the rear of the hopper and watch the belt. It will track toward center at each adjustment. Continue adjustments until the belt tracks to the center and stays there. **Note:** The belt needs to be run for at least one full minute to ensure that center tracking has been achieved.

- If the belt is tracking to the left, the left take-up frame bolt will need to be adjusted by following the above procedures.
8. When the belt is tracking correctly, have the other employee turn off the loading belt using the hydraulic valve.
 9. Turn off the engine of the CLS Loader.

Reminder: Wear of the belts, changing a belt, and improper loading of the hopper can affect the tracking. These and other conditions warrant attention to the belt at all times.

Adverse Weather Preparations

In some climates during the colder months it may be necessary to drain the water from the LoadPro to prevent failure or breakage of the water meter. If your equipment was installed in an area that has extreme weather conditions, do the following when expecting a freeze:

1. Turn off the main water valve at the inlet from the ground supply to the LoadPro.
2. Drain the water line or hose that runs to the unit. If it is a hose, remove it from the LoadPro drain it and store under warm cover.
3. Open the ball valve on the water line to drain the contents of the line.
4. Using a small Phillips screwdriver, remove the faceplate on the water meter. Also remove the batteries in the meter. Store the faceplate and the batteries in a warm location.
5. Replace all when necessary.

MATERIAL CONTROL

Remember this: You are not making concrete the same way a large ready mix company does. Where they mix 7-10 yard batches, you produce 1-2 yard batches. Fluctuations in materials will affect you much more than them.

For your equipment to operate with optimum results it is necessary to maintain a maximum degree of quality control over the materials used in your operation.

Changes in the location that your suppliers get their aggregates, different veins of aggregates, and different cleaning and loading procedures may ultimately affect the desirability of the materials you use in your mix designs.

Changes in the materials will directly affect your equipment. New calibrations must be done any time you change aggregate suppliers. Seasons may also affect your material in regards to water content. Pay attention to water content and adjust the mix accordingly.

GENERAL MAINTENANCE

Strict adherence to the following maintenance procedures will prolong the life of the equipment and reduce repair costs. While maintenance reminder menus will pop up at predetermined intervals, it is important to pay attention to the systems of the machine on the following basis:

DAILY:

1. Clean the area around and under the equipment. Be sure that the Release Agent pump is unplugged at the end of each day. (if applicable)

EVERY WEEK:

1. Grease all of the bearings on the machine. One to two pumps of a grease gun will be all that is necessary. **Note:** All of the bearings on your machine are 'sealed' bearings. Do not over grease them or you will blow the seals!
2. Check hydraulic fluid level. As necessary fill with AW32, or similar, 10 WT hydraulic fluid..
3. Check the tracking of the conveyor belt. This is done by standing at the rear of the hopper. Look at the belt where it enters the hopper. It should be centered on the slider bed and pulley and not to one side or the other. If this is not the case see '**CONVEYOR BELT ADJUSTMENT**' on page 9.

EVERY 6 MONTHS:

1. Turn on the machine and check the gauge on the hydraulic filter housing. If the gauge reads in the yellow or red, replace the filter. (if applicable)

EVERY YEAR

1. Replace the hydraulic filter yearly regardless of the reading of the pressure gauge on the filter housing.

Cart-Away Equipment Safe Operation List

- Read and understand your equipment's operation manual prior to operation.
- Print this operational list and provide it, along with verbal training, to every person who operates this equipment.
- Any and all damaged or defective parts should be reported to equipment owner and then repaired or replaced prior to use.
- Safety guards must be in place and in good working order before the owner of the equipment allows it to be used.
- Carefully read and follow any safety decals and signs. Keep them in good condition and replace damaged decals. Replace any safety decals and signs following any repainting. Decals are available through the Cart-Away parts department.
- Follow all maintenance instructions – including turning off engines and disconnecting any power feeds, electrical cords, or spark plug wires prior to performing any service or repairs.
- Never operate any equipment while under the influence of drugs or alcohol.
- Dress appropriately for running equipment. Do not wear loose clothing, rings, and wristbands. It is recommended that you wear sturdy footwear, long pants and use OSHA approved eye and noise protection while operating this equipment.
- It is recommended that you wear an OSHA approved dust mask or respirator when needed.
- Never allow children to operate or play with any equipment. Keep children and pets at a safe distance and be aware of their location during the movement/operation of the equipment.
- Operate the equipment only on firm and level ground.
- Never un-hook a loaded trailer from the towing vehicle.
- Never lubricate or adjust functions while the equipment is in operation.
- Keep hands and other body parts a safe distance from any rotating pulley, caster or drum. Never attempt to stop the movement of any function using human contact.

CALIFORNIA PROPOSITION 65 WARNING: Engine exhaust and some of its constituents are known in the state of California to cause cancer, birth defects and other reproductive harm.

- Never operate an internal combustion engine in a confined space. Engines discharge carbon monoxide, a poisonous, odorless, invisible gas. Death or serious injury may result if inhaled. Operate only in areas with proper ventilation.
- Use extreme caution when handling, storing and using dangerous fuels. Fuels are highly volatile and explosive in a vapor state. Do not add fuel indoors or

while the engine is running or when hot. Stop and cool the engine before adding fuel and storing the equipment. Do not smoke near fuels.

- Ignition and electrical systems can cause severe electrical shock. Avoid contact with breakers, magneto and battery ignition systems on engines or panels.
- Never work in any electrical panel without disconnecting electrical power.
- Servicing any electrical components should only be accomplished by qualified personnel.



CUSTOMER SUPPORT

We at Cart-Away Concrete Systems have manufactured and installed for you the finest equipment of it's type at your location. However, we realize that there may be occasions that will require you to contact us in matters concerning operation, maintenance, or ordering parts for your machine.

As Customer Service is as much a part of our company as manufacturing and selling our equipment, we provide you with the ability to reach us. If you have ANY questions regarding this equipment, its operation, or maintenance needs contact us:

WEEKDAYS:

800-909-9809 FROM 6 AM TO 5 PM (PT)



Cart-Away Concrete Systems - 1405 NE Alpha Dr. - McMinnville, Oregon, United States 97128 -
800-909-9809 – 503-434-4444 – fax 503-434-5888