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

OWNERS MANUAL

FOR

Cart-Away CBL Loading Units

Customer Name:_____

Equipment Type:_____

Equipment Serial Number:_____

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 24 hours a day, seven days a week. Weekdays call: 800-350-3588 from 6 a.m. to 4 p.m. (PST). For weekend or evening service call: 530-219-0550

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. Synchronization of moving parts is regulated electronically and 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 large red 'HYDRAULIC PUMP' switch.**
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 disengage power to the equipment, and 'lock-out' the control panel, 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, such as disengaging the power.
10. Always disengage the power before reaching on to the loading belts. **DO NOT under any circumstances reach on to the loading belts 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 loading belt 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 tensions properly adjusted and regularly check tracking.
24. Do not change factory settings concerning electrical or 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. Never work on or in the control panel without the advice of the Customer Service Department or a licensed electrician.
28. Always disengage main power to the control box before resetting any contactors.
29. **If you don't know…<u>ASK</u>!!! (See page 20)**

MATERIAL SELECTION

A single hopper unit (CBL1) allows you the ease of buying a singular pre-mixed con-mix to supply your Customers with a consistent mix for their Cart-Away needs. With a two hopper system (CBL2) you have a variety of mixes to offer to your customer. 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 different mixes. 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 may even be able to realize more profit from one mix to the other.

If you are not able to buy pre-mix 'con-mix' (also known in some areas of the Country as 'c-mix', 'salt-and-pepper', etc) in your area you will need to choose between a sand and an aggregate to put in each hopper. This also has it's advantages. You can vary the ratio of sand to aggregate to accommodate varying requirements of your customer. You can also turn off the aggregate hopper and run a sand slurry for them in certain circumstances.

Regardless of your situation, the material you choose plays in important part in a proper mix design.

We at Cart-Away specialize in mix design for our equipment. Using our Industry Standard Measurement (ISM) we can help you in selecting the pre-mix and separate materials you use in your mix designs. A sieve analysis of different materials measured to ISM specs will help you determine the best materials, both pre-mix and separate mix, for your situation.

Should you have any questions in concern to mix design or changes to your mix design, see page 20 and call for ISM specs on your materials.

WATER REQUIREMENTS PER YARD OF CONCRETE

While this machine uses a holding tank and pressure pump to maintain the correct volume and pressure needed to run the specialized water system functions, 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' will be entered into the SmartScreen during installation and training.

Note: The amount entered is the amount used for 1 yard. The SmartScreen will take care of reducing or increasing this amount for the different loads.

Please Note: The factory installer will assist you in this during set-up and training, but keep in mind that as seasons change, so do water requirements. The 'target amount' can be changed by the user at any point.

This 'target amount' will leave the mix slightly dry. NEVER send out a wet load with a customer. Not only does the extra water dilute the mix, 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!

If you have any questions at all, please ask the factory service technician during installation or see page 15 of this manual for contacting us.

OPERATING PROCEDURES

1. Turn main power on at the control panel. The SmartScreen will light up and initialize. Following initialization, it will come to the main screen.

2. Pull on the red 'HYDRAULIC PUMP' switch.

3. Using the joystick on the panel, swing the loading conveyor to the proper position for loading of the trailer. Adjust height as necessary. The conveyor should be positioned so that the rubber skirting is nearly touching the edge of the loading drum on both sides and at the top.

4. Ready the Rotating Drum Trailer:

    - 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)

5. By touching the SmartScreen at the menu displayed, select the number of sacks per yard that you require. Your choices will be 4, 5, 6, 7, or 8 sack.

6. A new menu will pop up, but will be blocked by a security pad. Enter your access code and press 'ENTER'. The menu will open. By touching the SmartScreen at this menu, select the amount you wish to make and then press 'NEXT'. Your choices are ¼ yard increments up to 2 yards.

7. A new menu will pop up. By touching the SmartScreen at this menu, you will first select the amount of water you wish to add per yard.

    - **THE NUMBER OF GALLONS ENTERED IS THE NUMBER OF GALLONS PER YARD! THE COMPUTER WILL ADJUST THIS AMOUNT FOR THE SIZE OF LOAD YOU ARE MAKING.**

    - **WHILE THIS NUMBER CAN VARY DURING THE SEASONS AND THE WATER CONTENT IN THE RAW MATERIALS, IT IS NOT NECESSARY TO MAKE CHANGES AT EVERY LOAD. THESE CHANGES ARE RARE.**

8. By touching the SmartScreen at this same menu, select the hopper you wish materials to come from:

    - **IF YOU HAVE A ONE HOPPER UNIT, SELECT 'FRONT HOPPER'.**

- **IF YOU HAVE A TWO HOPPER UNIT AND ARE USING A DIFFERENT PREMIXED CON-MIX IN EACH HOPPER, <u>SELECT THE HOPPER CONTAINING THE MIX YOU WANT</u>.**

- **IF YOU HAVE A TWO HOPPER UNIT AND ARE USING SAND IN ONE HOPPER AND GRAVEL IN ANOTHER, <u>SELECT BOTH HOPPERS</u>.**

9. After entering the water content and hopper selection from this menu, press 'NEXT'.

10. The next screen shows you the values you have entered. If the values are correct, press 'NEXT'. (if the values are not correct press 'RESET' and then 'MAIN' to change them.)

11. A new menu will pop up. By touching 'START' at this menu you will start the loading procedure.

12. The next display is the 'RUN' screen. This display counts the amount you are loading as it's being loaded. Each ¼ yard equals 30 seconds.

    - **NOTE: You can pause the operation by pressing 'PAUSE' at any time. Pressing 'PAUSE' again will resume the loading.**

13. The hopper conveyor(s), main loading belt, cement auger, and dust suppression nozzle will come on and continue to run until they time out based on the computer's settings. The hopper conveyor(s), and cement auger will stop automatically when the computer times out, **but the main loading belt and dust suppression nozzle is time delayed and will stop approximately 3 seconds after the timer reaches zero.**

14. Using the joystick on the panel, move the loading conveyor out of the way and then check the mix in the trailer. Add water from the 'add-water' hose, located on the loading conveyor, as necessary. (See page 6.)

15. Level the trailer and set the flow control to between 2 and 3.

16. Send customer out after reviewing operating instructions for the trailer.

17. If you have other customers backed up and ready to load, move the loading belt to the appropriate position, and repeat steps 4-16.

18. If no other customers are waiting, push off 'HYDRAULIC PUMP' switch to turn machine off.

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.

CALIBRATION PROCEDURES

Make sure that the cement silo is full and the aggregate hoppers filled.

1. **Cement calibration:** Equipment needed: Hanging scale (ranging up to 35+ pounds) and kitchen garbage bags (preferably with the 'draw string').

   A. Remove the discharge sock from the end of the cement auger discharge spout.
   B. Place one of the kitchen garbage bags under the cement auger. Use the 'draw-strings' to loop over the auger to hold the opening of the bag under the discharge spout.
   C. Pull on the red 'HYDRAULIC PUMP' switch.
   D. From the Main Menu of the SmartScreen choose 'SETUP'.
   E. Enter in your code and press 'Enter'.
   F. This will bring up the 'SETUP' menu. Press 'Calibration' to bring up the 'System Calibration' menu.
   G. At this menu there will be a large circle on the right side of the SmartScreen that says 'disabled'. Press this circle to enable the system.
   H. Press 'CAL CEMENT'.
   I. The cement auger will run for 5 seconds and stop.
   J. Weigh the bag of cement. The target weight for cement calibration is 31.3 pounds of cement.
   K. If the weight is not on target, then you will need to adjust the speed of the cement auger. To do so, follow these steps:
      - Locate the blue cover for the hydraulic components under the conveyor belts.
      - Remove the rearmost cover on the left side (facing the hopper unit from the front).
      - Locate the flow control valve for the cement auger. The valve is approximately 4" square and has a swinging arm on it for adjustment.
      - Adjust the lever of the flow control valve up (clockwise) or down (counter-clockwise) and retest until you achieve the correct weight of cement for calibration.
   L. Install discharge sock on the end of the cement auger and use the hose clamp to secure
      it.

2. **Aggregate calibration**: (equipment needed: provided calibration container and material deflector) Note: the calibration container is specifically marked to measure the material. Proper calibration will leave the container level at the appropriate line.

A. Place the material deflector on the loading conveyor and place the calibration container beneath it to catch the aggregate.
B. Pull on the red ‘HYDRAULIC PUMP’ switch.
C. From the Main Menu of the SmartScreen choose ‘SETUP’.
D. Enter in your code and press ‘Enter’.
E. This will bring up the ‘SETUP’ menu. Press ‘Calibration’ to bring up the ‘System Calibration’ menu.
F. At this menu there will be a large circle on the right side of the SmartScreen that says ‘disabled’. Press this circle to enable the system.
G. Choose the hopper to be calibrated by touching the screen.
    - FOR ONE HOPPER UNITS PRESS ‘CAL FRNT’.
    - FOR TWO HOPPER UNITS USING PREMIXED MATERIAL IN BOTH HOPPERS PRESS ‘CAL FRNT’ OR ‘CAL REAR’ FOR THE APPROPIATE HOPPER.
    - FOR TWO HOPPER UNITS USING SEPARATE SAND AND AGGREGATE, CHOOSE THE APPROPRIATE HOPPER FOR CALIBRATION OF EACH MATERIAL.

H. **Note: The calibration sequence will start immediately after choosing the hopper. The main loading belt will continue to run for another approximately 3 seconds to clear the belt of material before stopping!**
I. Check the material in the calibration container. Note: It will be necessary to smooth the material to a flat surface inside the calibration container, but do not pack the material down!!
J. The target is filling the calibration container to the appropriate line. Adjust the discharge gate higher or lower by using a large pair of channel-lock pliers or a pipe wrench to turn the adjusting nut on the gate until you’ve reached the target.
K. Once the target is reached, repeat the process at least twice to ensure an accurate flow from the hopper conveyor.
L. The loader is now calibrated to deliver one cubic yard in two minutes.

CONVEYOR BELT ADJUSTMENT

A flashing menu will appear on the SmartScreen when conveyor belt adjustment is recommended. The tracking of the belts is set at the factory and again during installation, but numerous things can effect it. Follow the steps below to adjust the tracking of conveyor belts:

Note: Wear of the belts, 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. DO NOT wait for the menu to prompt this activity. The menu is a reminder!

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

A hopper belt is a belt that runs beneath a hopper to deliver material to the loading conveyor. You may have 1 (CBL1), 2 (CBL2), or 3 (CBL3). For hopper belt(s) adjustment follow steps 1-8 below for each belt:

1. Ready a tractor in front of the loading conveyor to catch material.
   - **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. Pull the main 'HYDRAULIC PUMP' switch to turn on the system.
3. Empty the hopper(s):
   - Press 'Maintenance' at the main menu and enter your code.
   - The Maintenance screen will pop up. Press the load conveyor button and the appropriate hopper button to run and they will start immediately.
   - Empty the material from the selected hopper into the tractor bucket, stopping and restarting the procedure as necessary.
4. With the load conveyor off, and still at the 'Maintenance' screen, press the appropriate hopper button to run and it will start immediately.
5. 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.
6. The conveyor belt should enter the opening of the hopper evenly with the same amount of space between the edges of the belt and the edges of the slider bed on both sides.
7. 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, push the appropriate hopper button on the screen to turn off the belt. Use the above procedure for additional belts as necessary.

The loading conveyor belt is the angled belt that carries the materials from the hopper belts and the cement up to the mouth of the mixing trailer. To adjust the loading conveyor belt:

1. Pull the main 'HYDRAULIC PUMP' switch to turn on the system.
2. Use the joystick on the panel to move the loading belt toward the control panel. Let the loading belt travel as far as it will go so that it is sideways to the hopper unit.
   - **THE FOLLOWING SAFETY PRECAUTIONS MUST BE FOLLOWED BEFORE PROCEEDING:**
     1. Place a tractor bucket in front of the loading conveyor to catch any stray material on the loading belt.
     2. 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.
3. Start the loading belt by:
   - Press 'Maintenance' at the main menu and enter your code.
   - The Maintenance screen will pop up. Press the load conveyor button and the loading conveyor will start immediately.
4. Have the other employee at the rear of the loading belt watch the belt as it comes around the pulley and travels forward.
5. The conveyor belt should cross the rear pulley evenly with the same amount of space between the edges of the belt and the edges of the pulley on both sides.
6. 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 loading belt and watch the belt. It will track toward center at each adjustment. Continue adjustments until the belt tracks to the center. **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.
7. When the belt is tracking correctly, push the load conveyor button to turn off the belt. Use the above procedure for additional belts as necessary.

Reminder: Wear of the belts, 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. DO NOT wait for the menu to prompt this activity. The menu is a reminder!

Adverse Weather Preparations

In some climates during the colder months it may be necessary to drain the water from the plant to prevent failure or breakage of the water system. 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 holding tank.

2. Remove one end and drain the line leading from the ground supply to the inlet of the holding tank and drain the water from it.

3. Pull on the red 'HYDRAULIC PUMP' switch.

4. Allow the pump to drain the holding tank.

5. When water no longer comes out of the main water system, immediately push off the red 'HYDRAULIC PUMP' switch. Do not let the pump run after the water has been emptied from the tank.

6. Remove the hose from the outlet of the holding tank to drain residual water from the tank.

7. Open the drain on the pump housing to drain the remaining water in the pump.

8. Remove the 'add-water' hose from the hose bib at the digital water meter, drain it, and store it under warm cover.

9. With the add-water hose removed, open the hose bib it was connected to at the water manifold. (The water manifold is the section of galvanized plumbing that controls the water flow from the pressure pump. To find it, follow the water line from the pressure pump to the manifold.)

10. From the main menu on the SmartScreen select 'Maintenance' and enter your code.

11. Activate both the mister and water valve on the panel. Keep them activated until all residual water forward of the hose bib for the add-water hose has emptied out. This will clear the lines on the loading conveyor.

Note: The above procedures cover nearly all situations. We cannot account for some situations due to assembly or installation differences. In the event that water lines have upward or downward turns, we suggest removing one

end of that portion of line from it's lowest connection and draining any residual water. Our Service Department is available 24 hours a day, 7 days a week to answer any questions. (See page 20.)

All of Cart-Away's Control Panels include a heater to keep adverse weather conditions from harming the computer and SmartScreen. This heater is only effective when power is 'on' to the control panel. **Be sure that the Control Panel Main Power is 'on' during adverse weather to protect these components!!**

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.

See page 5 for help in selecting materials that meet ISM specifications.

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)
2. Pressure wash the machine paying special attention to the loading conveyor, belt wiping brush, and front of the hopper. (**DO NOT USE A PRESSURE WASHER DIRECTLY ON THE CONTROL PANEL!**)

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. We recommend that you calibrate once a week in varying seasons. As moisture content in the aggregate changes, so will the calibration. The cement also varies in it's density after repeated filling of the silo.
4. Check the tracking of both conveyor belts. For the hopper 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 trough and not to one side or the other. For the loading belt, look at the rear pulley. The belt should be centered there as well. If this is not the case see **'CONVEYOR BELT ADJUSTMENT'** on page 12.

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.

EVERY YEAR

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

AFTER EVERY FILLING OF THE CEMENT SILO:

1. Open the bag house and shake the bags to remove any cement dust clinging to them.
2. Place a small container below the discharge gate at the base of the bag house. Open the discharge gate and allow the cement to fall into the container. As this will be a very small amount, pour the cement onto the exposed portion of the hopper conveyor belt to be mixed in with the next load of concrete you make.

CUSTOMER SUPPORT

We at Cart-Away Concrete Systems have manufactured and installed for you the finest equipment of it's type at your location. Our technician assembled the equipment for you and trained your personnel. But 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 24 hours a day, seven days a week, ability to reach us. If you have ANY questions regarding this equipment, its operation, or maintenance needs contact us:

WEEKDAYS:

800-350-3588 FROM 6 AM TO 4 PM (PT)

AFTER HOURS AND WEEKENDS:

530-219-0550
-OR-
530-671-4203

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.