

Docklevelers and Associated Equipment

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Docklevelers

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CONTAINER DOCKLEVELER OPERATING INSTRUCTIONS

Warnings before engaging the dockleveler:-

1. Ensure the operator has been trained and has read the following instructions before attempting to operate ULTI Dockleveler.
2. Do not operate the dockleveler with anyone standing near the front of the dockleveler.
3. Do not allow a forklift or any other equipment onto the platform before it has been positioned and the lip is sitting correctly on the truck bed.
4. If a malfunction occurs, turn power isolator switch to off and call your authorized repairer immediately.

Use with Std trailer or truck configuration

1. Dockleveler must be in the parked (or horizontal) position and the lip in the fully retracted position when truck or trailer is approaching.
2. The truck or trailer may now carefully back in until it connects with the rubber dock buffers. Have the driver inch the trailer forward until the truck or trailer is just clear of the rubber dock buffers.
3. Raise the platform and extend the lip then lower onto the truck or trailer bed.
4. Ensure the truck or trailer has been secured into position and can not move before allowing a forklift or other equipment onto the platform.

Below dock height operations

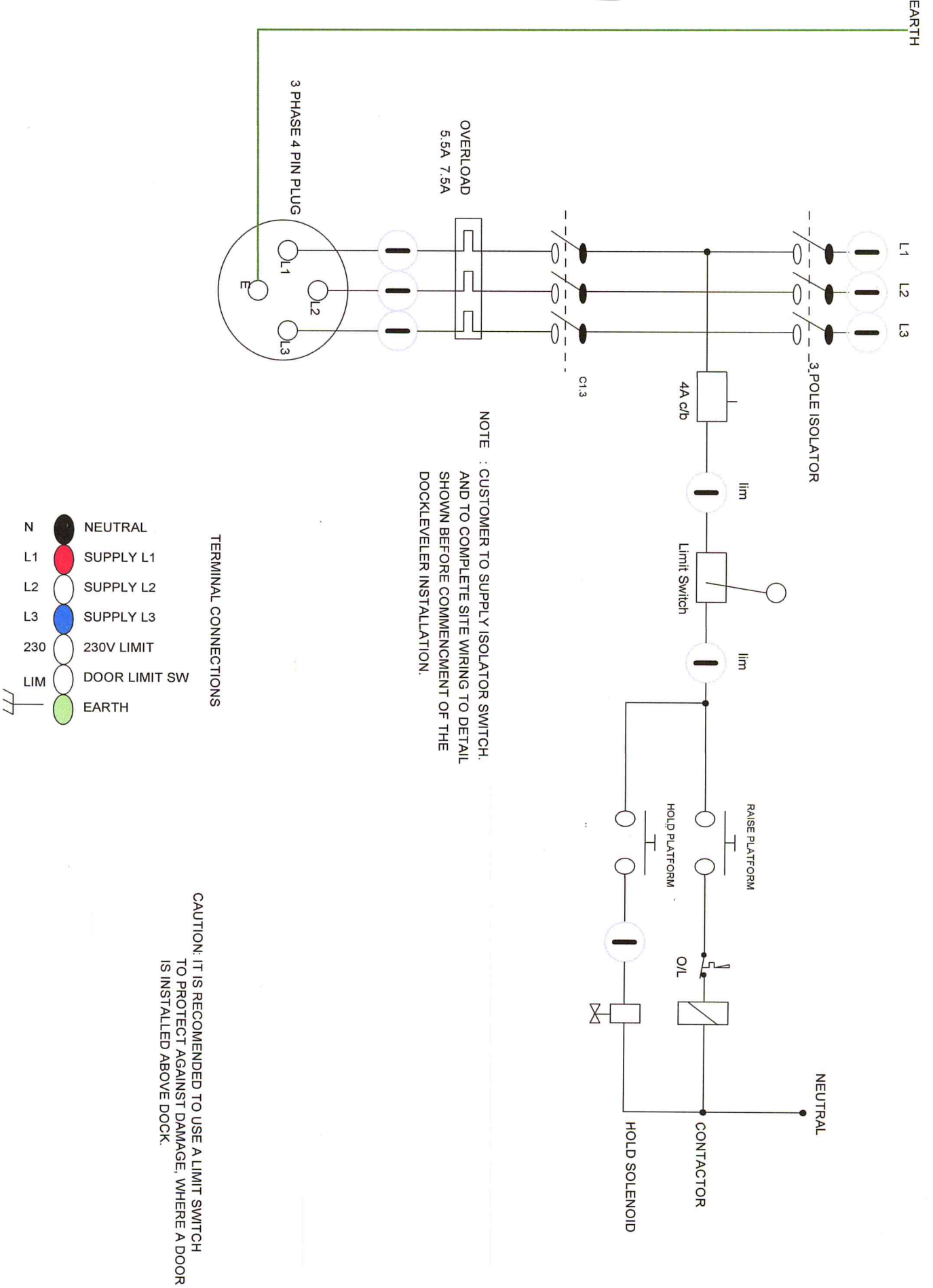
1. Raise the platform.
2. Press the raise platform button and hold until the lip is fully extended.
3. Release the button and the platform and extended lip will lower and rest on the truck or trailer bed.

It is recommended that the dockleveler be returned to its parked position before the truck pulls away.

General Operating Procedure








- Press raise platform button.
- Keep raise platform button depressed until lip fully extends. When fully extended, release button. Platform lowers and lip rests on truck bed.
- If required, freeze the platform in position using the "hold" toggle switch.

When loading / unloading is complete, press raise platform button until lip is in fully retracted position and clear of truck bed. Release button. Platform will automatically lower to its level resting position.



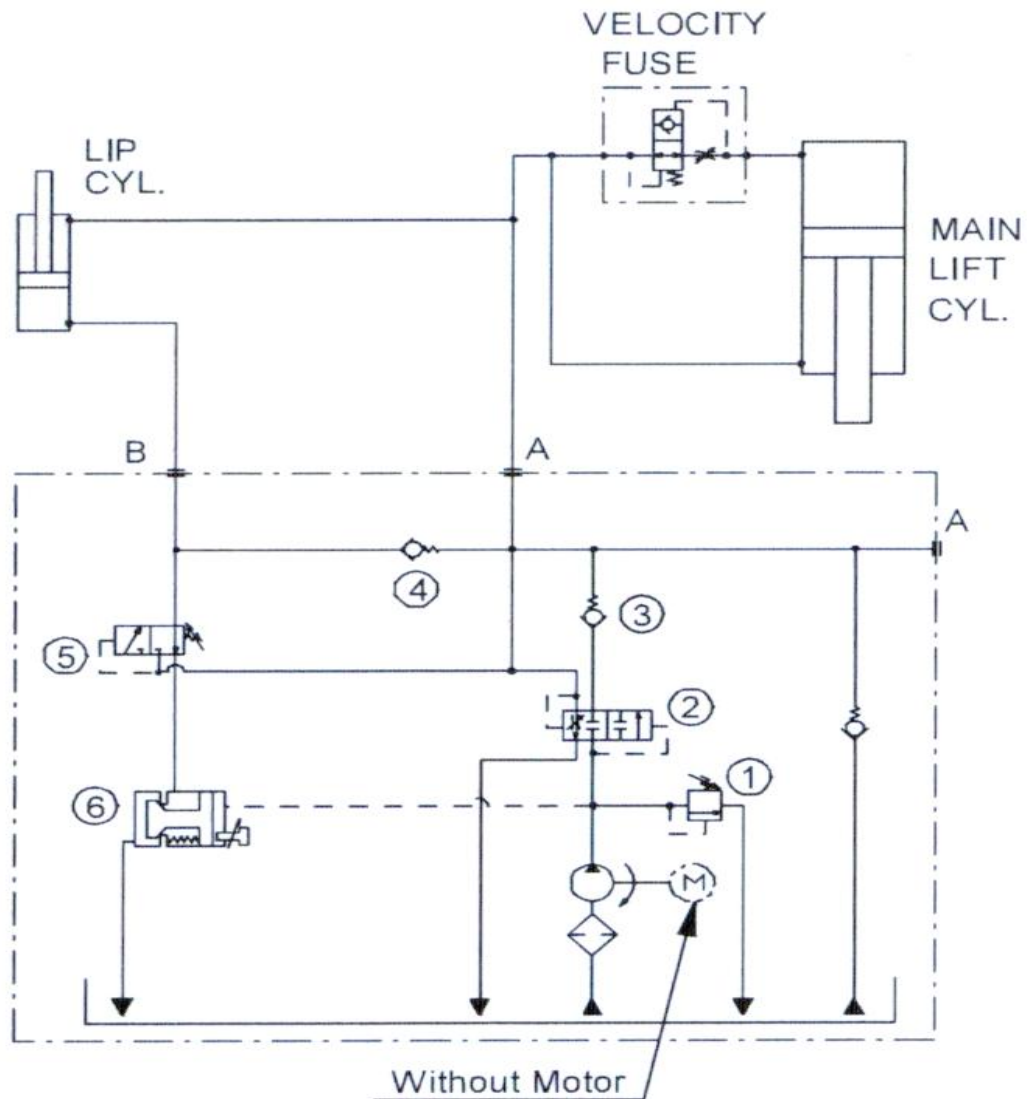
NOTE : CUSTOMER TO SUPPLY ISOLATOR SWITCH, AND TO COMPLETE SITE WIRING TO DETAIL SHOWN BEFORE COMMENCEMENT OF THE DOCKLEVELER INSTALLATION.

TERMINAL CONNECTIONS

-  NEUTRAL
-  SUPPLY L1
-  SUPPLY L2
-  SUPPLY L3
-  230V LIMIT
-  DOOR LIMIT SW
-  EARTH

CAUTION: IT IS RECOMMENDED TO USE A LIMIT SWITCH TO PROTECT AGAINST DAMAGE, WHERE A DOOR IS INSTALLED ABOVE DOCK.

Hydraulic Layout



1	Relief Valve
2	Dock Lowering Valve
3	Check Valve
4	Check Valve
5	Sequence valve
6	Lip Lowering valve

HYDRAULIC CONTAINER DOCKLEVELER SPECIFICATIONS

MODEL	CDL1410-H1H
OPERATION	Fully hydraulic. Double button controls, ie. One button raises platform and then extends the lip and the second, a toggle switch , freezes the platform in place.
DECK WIDTH	3000mm
DECK LENGTH	4000mm
LIP	500mm long x 2000mm wide, 18mm thick heavy duty checker-plate top
OVERALL DECK TRAVEL UP	380mm (BASED ON 1600mm DOCK HEIGHT)
DECK TRAVEL DOWN	300mm for barn doors to open up over the top of the dockleveler.
CAPACITY	11,400kg
PIT TYPE	Container set up. Cast-in channel located at rear of dock.
DOCK BUMPERS	Attached to front of dockleveler. Std 300mm long x 100mm wide x 100mm deep.
FINISH	All units fully cleaned, primed with DULUX ultratech and top coat using 2 pack Supa Grip.
POWERPACK	Located under dockleveler mounted to rear wall.
CONTROLS	Control box wall mounted fitted with power overload
DESIGN	Heavy duty design of platform, lip, and base frame ensures strength and durability. Base frame is designed to fully contain all hydraulic forces within the base frame. Platform is designed to

allow for vehicle suspension movement including sideways tilt during loading and unloading.

SERVICE

Service and backup support. Service contract can be organised if required.

POWER
REQUIREMENTS

415V 3-phase plus neutral. Isolator switch to be mounted above control box

Maintenance Guide

for HYDRAULIC DOCKLEVELER

MODEL XXX-H1H

STD OPERATION Two (2) button control, i.e. one button raises platform and then extends the lip other toggle switch freezes the platform in place.

TO HOLD PLATFORM IN POSITION TO FIT MAINTENANCE STAY;

This is a single person operation. Activating the "Hold" switch in the "ON" position for an extended period will void the warranty on the power pack and will cause the solenoid to burn out. Recommended time on hold 5 minutes.

Raise the platform as per the standard procedure. Once the lip has fully extended engage the Hold Toggle switch then move the front of the dockleveler and raise the maintenance stay that is attached to the base frame. This stay will hold the platform in the raised position allowing safe working under the dock. Release the "Hold" switch once the stay is in place.

TO REMOVE THE MAINTENANCE STAY;

Press the "RAISE" button and the platform will lift up clear of the stay. Once clear of the stay activate the "Hold" switch. Return to the front of the dockleveler and lower the maintenance stay. Release the "Hold" switch and the dockleveler will return to its resting position.

REGULAR MAINTENANCE CHECKS (3 monthly)

- ✓ Hydraulic fluid level in tank either visually or using a dip stick.
- ✓ Check the hoses and fitting for leaks, wear or rubbing.
- ✓ Clean and lubricate the lip bosses (hinge) using a light oil based lubricant.
- ✓ Check the toe guards are working properly and have not been damaged or bent.
- ✓ Check the condition of the rubber dock blocks. As they wear the chances of a truck or trailer doing serious damage to the dockleveler increases.
- ✓ Check the condition of the side and rear seals (if fitted) for wear or damage.

A FULLY SERVICE OF THE DOCKLEVELER IS REQUIRED EVERY 12 MONTHS.

12 Monthly Service Guide

For

HYDRAULIC SINGLE BUTTON + HOLD DOCKLEVELER

MODEL XXX-H1H

STD OPERATION Double push button control, i.e. one button raises platform and extends the lip once it has reached full height and the other toggle switch freezes the platform in place.

TO HOLD PLATFORM IN POSITION TO FIT MAINTENANCE STAY;

This is a single person operation. Activating the "Hold" switch in the "ON" position for an extended period will void the warranty on the power pack and will cause the solenoid to burn out. Recommended time on hold 5 minutes.

Raise the platform as per the standard procedure. Once the lip has fully extended engage the Hold Toggle switch then move the front of the dockleveler and raise the maintenance stay that is attached to the base frame. This stay will hold the platform in the raised position allowing safe working under the dock. Release the "Hold" switch once the stay is in place.

TO REMOVE THE MAINTENANCE STAY;

Press the "RAISE" button and the platform will lift up clear of the stay. Once clear of the stay activate the "Hold" switch. Return to the front of the dockleveler and lower the maintenance stay. Release the "Hold" switch and the dockleveler will return to its resting position.

REGULAR MAINTENANCE CHECK (12 monthly)

- Full visual inspection of all parts of the dock and operating system. Recording any damage or wear.
- Full visual inspection of the hydraulic hoses and their fittings for leaks, wear or rubbing. Check for oil pools on the floor as a tell tale sign.
- Full visual inspection of the hydraulic power pack and its fittings for leaks, wear or rubbing. Check for oil pools on the floor as a tell tale sign. Check condition of the electrical leads and power points.
- Hydraulic fluid level in tank either visually or using a dip stick. Level should be up to ½ way point of tank.
- Visual inspection of the lip bosses (hinge) for damage and wear. Also clean and lubricate the lip bosses (hinge) using a light oil based lubricant.
- Check the toe guards are working properly and have not been damaged or bent.
- Visual inspection of the main rear angle where the dock is attached to the rear of the pit. Check the welds for damage.
- Check the condition of the rubber dock blocks. As they wear the chances of a truck or trailer doing serious damage to the dockleveler increases.
- Check the condition of the side and rear seals (if fitted) for wear or damage.
- Check the condition and operation of any peripherals (if fitted) i.e. lights seals etc.
- Check the operations of the dock by running it through the entire sequence of the operation.

Trouble shooting Guide for HYDRAULIC TWO BUTTON CONTAINER DOCKLEVELER

MODEL	CDLXXX-H1H
STD OPERATION	Single push button control, i.e. one button raises platform and at the top of its stroke, the loading lip automatically extends and holds out until lowered onto truck bed.
HOLD TOGGLE SWITCH	Hold toggle will freeze dock in position for a maximum of 5mins
CONTROLS	There are four (4) adjustments on the aluminium block all require a Allen key and spanner to release locking nut. See diagram of pump for reference. No 2 is for adjusting the speed of platform lowering No 1 is the Pressure relief valve No 5 is the sequence valve No 6 is for adjusting the lip Clockwise increases Anti-clockwise decreases
RECTIFYING PLUGS	Rectifiers convert the current from 240v AC to 220 DC. "C" Plug controls the lip valve "A" Plug controls the platform valve..

LIP WILL NOT COME OUT:

Ensure the lip bosses (hinge) are clear and free from obstruction. Check for damage or for oil leaking from the power pack, a hose or from a fitting.

Adjust the No 5 valve. Wind the valve anticlockwise no more than 1/2 of a full turn per adjustment.

LIP WILL NOT STAY OUT IN POSITION;

Check for damage or for oil leaking from the power pack, a hose or from a fitting.

Adjust the No 6. valve. Wind this valve clockwise no more than 1/4 of a full turn per adjustment.

LIP WILL NOT RETRACT FULLY;

Ensure the bosses (hinges) that link the lip plate to the platform are clear and free from obstruction.

Adjust the No 6.valve. Wind this valve anti- clockwise no more than 1/4 of a full turn per adjustment.

PLATFORM WILL NOT “RAISE” UP;

Check the power is turned on. Check circuit overloads have not been tripped.

Check the motor is turning in the correct direction, see the arrow on the fan casing and check that the fan is spinning to match those arrows..

Check for oil in tank.

Check for damage or for oil leaking from the power pack, a hose or from a fitting.

Check that the main platform rams solenoid has not been energised (powered). To check this, remove the Herschmann plug(square shaped plug that sits over 3 prongs) from the solenoid in the fitting part the way along the platform ram hose.

Adjust No 1 valve clockwise to increase the pressure in the power pack. Only adjust this 1/2 of a full turn per adjustment. As this setting can affect all of the pressure and back-pressures throughout the system adjusting this may result in other adjustments being required.

PLATFORM FREEZES IN POSITION;

Try a single quick depression of the control button to re-activate the hydraulic sequencing.

Turn all power to the dock off and reset over loads turn back on.

Adjust No 2 valve anti-clockwise ½ of a full turn per adjustment. If this fails to re-activate the platform a serviceman will be required.

PLATFORM RAISES VERY VERY SLOWLY;

See above for platform will not raise up.

LIP EXTENDS BUT PLATFORM WILL NOT RAISE:

Check the “HOLD” button is not engaged.

Check solenoids are functioning correctly, usually an active solenoid has a small red indicator light when energised.

Check the leg cylinders have not been damaged. This may occur when a loaded forklift is working on the deck while the leg cylinders are still engaged and holding the platform in place rather than floating on the back of the trailer.

NB: With the power pack positioned under the platform or at the rear of the dockleveler the safety of the person adjusting these controls is paramount. NEVER OPERATE THE DOCKLEVELER WITH A PERSON UNDER THE PLATFORM.

