



DOCK LEVELLER

USER MANUAL

TYPE:

TELESCOPIC

Electro-Hydraulic Sliding Lip

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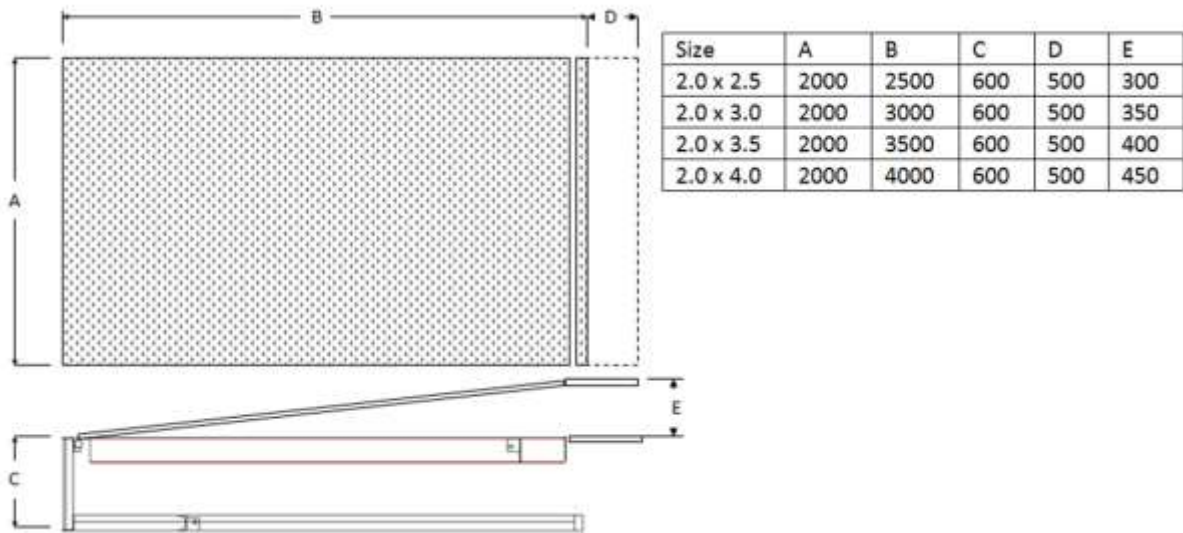
## TECHNICAL SPECIFICATIONS

Manufactured in accordance with EN1398



<b>Capacity</b>	6,000Kg dynamic, 10,000Kg static
<b>Platform Width</b>	To customer requirement (generally 2000 – 2100mm)
<b>Platform Length</b>	To customer requirement (generally 3000mm)
<b>Lip Length</b>	500mm long telescopic, cranked or flat with chamfered edge
<b>Platform Material</b>	Non-slip durbar plate finished in any RAL colour or galvanised. Leveller platform designed to flex 100mm laterally in each direction to compensate for vehicle tilt while remaining rigid longitudinally
<b>Main Ram</b>	Hydraulic single acting with burst valve to prevent platform descending under load, if vehicle inadvertently pulls away, or in the event of hose failure
<b>Lip Ram</b>	Hydraulic double acting
<b>Power Pack</b>	0.75KW, 380v/50Hz - 3Ph mounted on leveller base frame. Pre-wired for connection to control panel.
<b>Control Panel</b>	Rated IP55 – 24v AC with door interlock as standard
<b>Above/Below Deck</b>	Dependent on platform length – see table in figure overleaf.
<b>Maintenance Prop</b>	Included
<b>Fixing Application</b>	All dock levellers can be manufactured to suit pit mounted, suspended or cast in applications.

Standard dimensions:



Options:

- 10,000Kg or 15,000Kg capacity
- RAL colour to customer requirement
- Alternative lip size
- Limit switch
- Galvanised

## OPERATING INSTRUCTIONS

- Dock levellers should only be used by personnel trained in their operation, and who are authorised to do so.
- Dock levellers should only be used for the purpose for which they have been designed, and should never be operated with goods on or in front of the device.
- No goods or persons should be left on the leveller when the vehicle has disengaged.
- The leveller should only be used for the specific purpose of loading and unloading containers or trucks with the aid of a forklift or pallet truck.
- The vehicle should preferably be prevented from moving by the use of chocks or a vehicle restraining device, during the loading and unloading process.
- According to EEC standards the maximum permitted gradient is  $\pm 12.5\%$  or approximately  $\pm 7^\circ$ . Always refer to the appropriate forklift truck operator's manual, for the maximum safe working gradient.

### **Using The Dock Leveller:**

Before using the dock leveller make sure that the power supply is switched on.

Do not switch the power supply off when the leveller is in use

Please comply with the following sequence of events:

1. Ensure that the vehicle is correctly positioned centrally in front of the dock leveller with the rear doors open.
2. Press the control button, RAISE LEVELLER, LIP IN. The amber light will go out. Keep the control button depressed until the deck has reached its highest position.
3. Press the control button, LIP OUT, until the lip reaches its full extension.
4. When the control button is released, after a time delay of approximately 3 seconds, the amber light will come on and the deck will lower under its own weight, on to the bed of the vehicle. The lip

will remain extended. This gives maximum overlap of the lip onto the bed of the vehicle.

5. The leveller is now in the float position. It will follow the up and down movements of the vehicle and is now ready for use for loading of the vehicle.
6. The lip must always provide sufficient support on the loading floor of the vehicle. It should extend no less than 100mm in to the vehicle at all times.
7. To have less than the maximum lip overlap inside the vehicle, press the control button, RAISE LEVELLER, LIP IN to retract the lip. The deck will also rise. Release the control button when the lip is in the required position. After a time delay of approximately 3 seconds, the amber light will come on and the deck will lower under its own weight, back onto the bed of the vehicle. The leveller has returned to the float position.

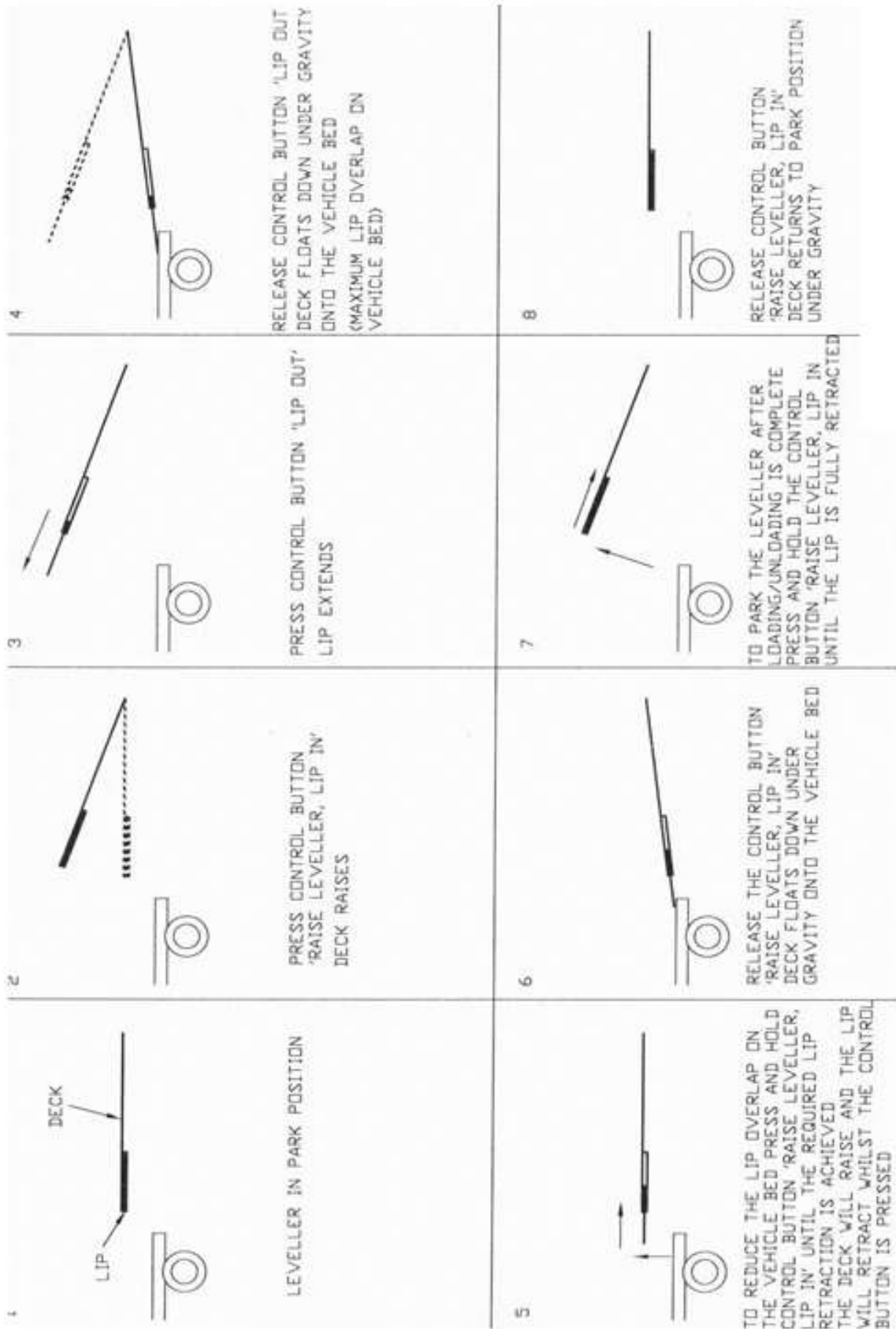
**Returning the deck to its rest position once loading or unloading has been completed:**

1. Press the control button, RAISE LEVELLER, LIP IN. The leveller will rise and the lip will retract. Keep the control button depressed until the lip has returned to its park position, then release the button.
2. After a time delay of approximately 3 seconds, the amber light will come on and the deck will lower under its own weight to the park position. The lip will remain retracted.

**Emergency Stop                      ONLY TO BE USED IN AN EMERGENCY**

- This button must never be used during loading or unloading, as the deck is unable to follow the up & down movements of the vehicle, which could lead to a potentially dangerous situation, or damage to the leveller.

# OPERATING SEQUENCE



## SAFETY

### **Toe Guards:**

Toe guards on both sides of the leveller protect the operator and other parties. The toe guards are marked in the yellow and black regulation stripes in conformity with EEC regulations.

### **Safety Stop:**

If a vehicle drives away during loading or unloading & there is a heavy load on the dock leveller, the safety stop will be activated automatically.

Once the load has been removed, brief pressure on the control button is sufficient to reset the leveller, which can then be returned to the parked position.

The leveller should not be used again until a thorough inspection has been carried out by the supplier or dealer for any deformity or damage.

### **Lateral Tilt:**

The torsional properties of the leveller deck is such, that the leveller lip can remain in contact with the loading surface of the vehicle with a lateral tilt of approximately 100mm either way.

### **Emergency Stop:**

The emergency stop must only be used in the event of an Emergency.

The emergency stop should never be pressed during loading and unloading as the leveller is then unable to follow the up & down movements of the vehicle.

### **Maintenance Supports:**

Always use the maintenance support during repairs, adjustments, maintenance and cleaning operations that require personnel to go below the deck of the leveller.

### **Power Supply:**

Always switch off power supply before proceeding with any maintenance or cleaning work.



## MAINTENANCE

- The user should check for visible signs of damage daily
- The user should check all functions of the leveller weekly
- Cleaning & lubrication should be carried out as below

### Hydraulic system:

- Check the hoses & unions every six months for leaks or damage
- Check oil level in the tank every six months, top up as necessary
- Full oil change is recommended every 2 years
- Recommended oils for normal applications where the power pack is well sheltered from extremes of temperature are type ISO VG32 viscosity index IP226-150 or better. For applications where the power pack is subject to extremes of temperature use aviation type oils ISO VG26, viscosity index 400 or better

### Hinges

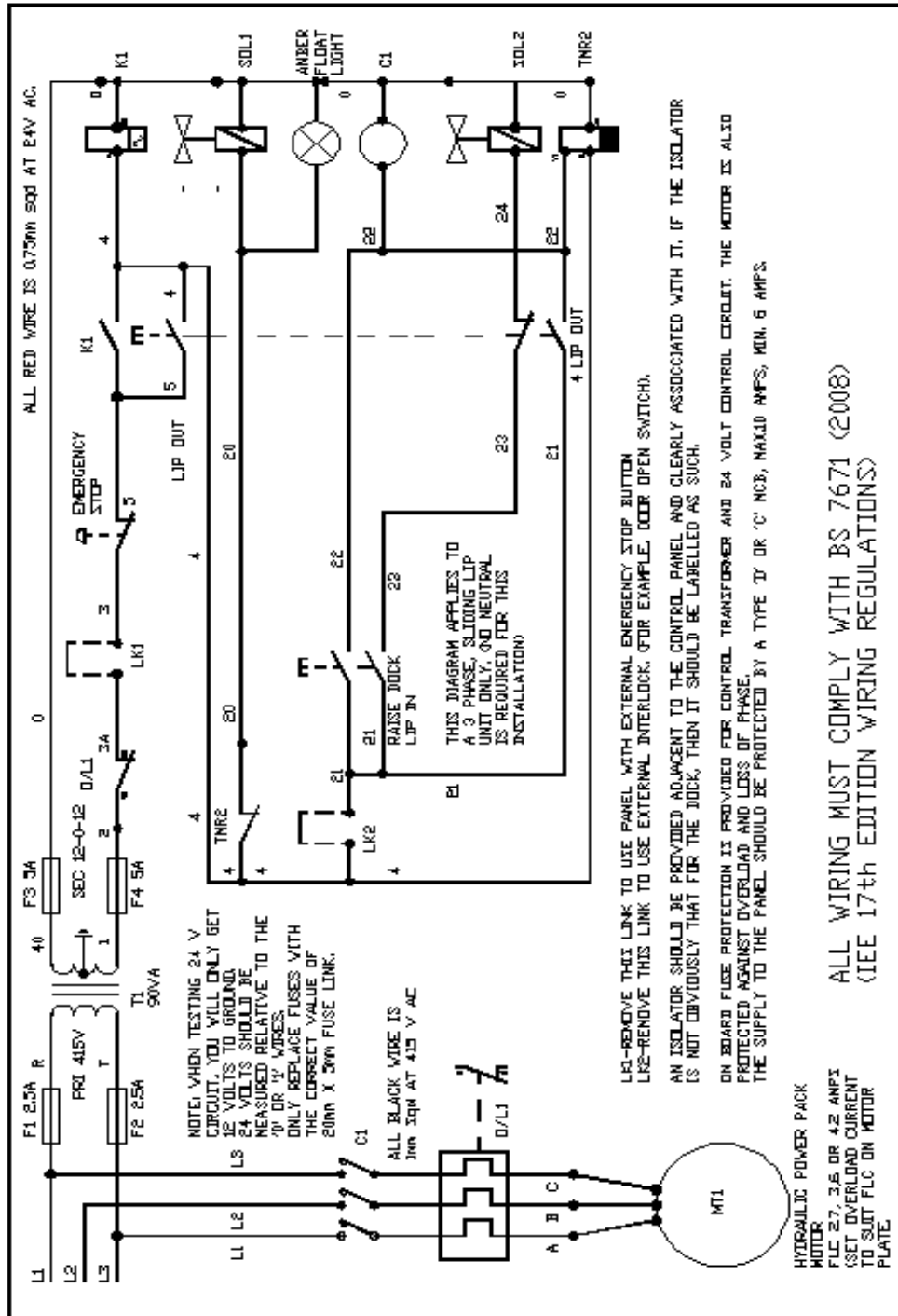
- The hinges should be lubricated every six months or as necessary

### Cleaning

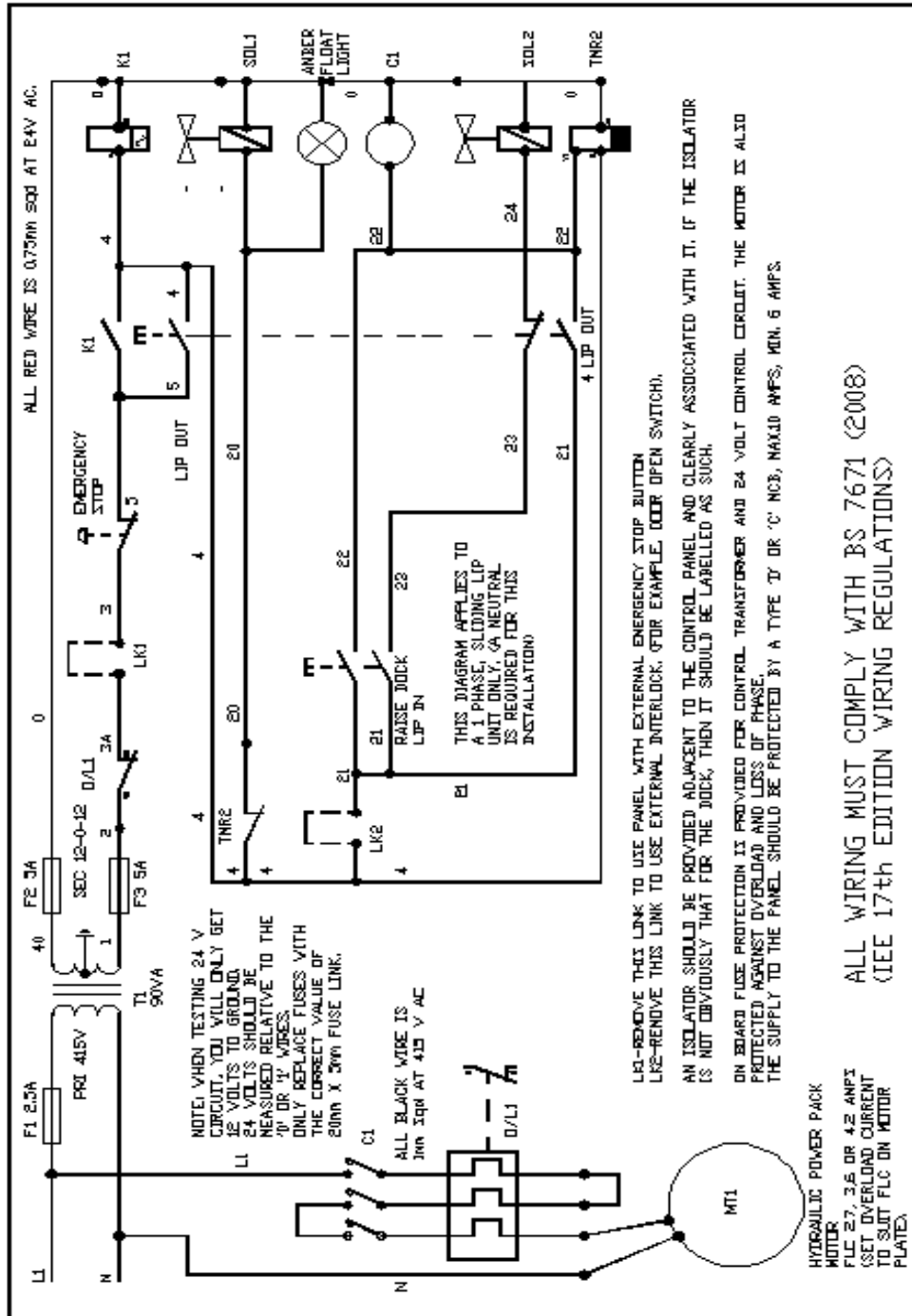
- The hinges should be cleaned off as necessary
- The leveller pit should be swept out as necessary & any oil spillage mopped up

**When carrying out maintenance work the support strut must be in place and the power supply must be turned off**

# CIRCUIT DIAGRAM 1 (3 PHASE)



# CIRCUIT DIAGRAM 2 (1 PHASE)



ALL WIRING MUST COMPLY WITH BS 7671 (2008)  
 (IEE 17th EDITION WIRING REGULATIONS)

SERVICE RECORD

DATE	ENGINEER	COMMENTS

NOTES