ScreenStalk
www.screenstalk.com Giant Display Lifts

TYPE:XP2MT

This Lift has been specifically designed to enable easy lifting of a new generation of "Super Monitors" used by today's Audio Visual industry. It completely eliminates all the associated risks of damaging these delicate and expensive devices!

ScreenStalk Lifts are currently protected by International Patents based on PCT GB 9900870.

If it is used in accordance with the following instructions it will enable a single operator to raise these giant monitors such as the Panasonic 1O3" unit from its case, perform its duties and then SAFELY pack it away with ABSOLUTE EASE!

NEVER attempt to use this machine without first studying and fully understanding these instructions!

If you have any doubt, contact the supplier of the equipment.

Never attempt entry into the locked and sealed drive control unit as this generates a 240 volt 3 phase supply. There are no user serviceable parts inside, entry will be dangerous and will void the warranty of the unit.
Never use the machine if the control panel has been opened and the seal is broken.

This equipment is designed for use only by professional and responsible operators who are fully aware of the associated risks involved when operating powered machinery. Read on!

The Earth supply to this machine is "Critical" It must be checked and confirmed before use, In addition to this a high quality 30 milliamp RCD device must be used on the incoming supply!

The lift employs both mechanical and electronic "Failsafe" systems for the protection of the operator and personnel as well as the machine itself when it is in use. Failure to follow these instructions precisely will risk injury to yourself or others.

First thing is to choose a suitable site as the lift requires a solid floor surface that is flat and level, when used on staging ensure that it is suitably constructed to take the intended weight, (The lift alone is 75kg)
Never use outdoors or in wet conditions, do not use in areas were draughts can occur. The lift can also be secured down with ground anchors, holes are provided in the base for this purpose.

Always keep away from moving parts and become FULLY AWARE OF ANY obstacles when operating the lift in either direction.

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Please refer to the drawings and follow the steps as detailed below.

1. Position the lift and power up using the 240v input (120v USA) through a 30 milliamp RCD. See fig 3 item B.
2. Ensure Emergency Stop button is Out. Fig 2 item C.
3. Turn the mains isolator switch On. Fig 3 item A.
4. Slightly raise and lower the lift using control Fig 2 item D. (Test Only)
5. Position the monitor with its back-plate facing the lift mounting plate Fig 1.
6. Secure the mounting plates together with the 20mm center bolt and tighten the nut with a 30mm wrench to approx 15ft lb / 22nm
7. Insert "Y" spanner through the monitor back-plate and tighten the nuts with a 17mm wrench to 15lbft/22nm,
8. The 2 x M12 wing bolts Fig I item J will adjust the monitor to a vertical position for easy removal and replacement of the unit in its case. To use this facility slacken off all 5 fixings and turn the wing bolts to position the monitor then tighten the 5 fixings as before.
9. With the monitor adjusted to the vertical position operate the Up control and lift it from its case to a height suitable for adjusting the attitude,
10. If Portrait mode is required remove the two "Y" Spanners (or M10 bolts) from the back-plate and rotate the screen on the 20mm center bolt then replace the "Y" Spanners (or M10 bolts)and re-tighten the nuts as above.
11. Take the lift to the desired height then fit base and pillar (Cloaking) covers if required.
12. Note, that fine adjustment for final positioning of the monitor is available at the back-plate by slacking off the four M10 nuts!
13. To pack the unit away simply follow the reverse of the above but ensure that the monitor is adjusted to the vertical position otherwise difficulty entering the case may prevail.
14. In the event that the machine loses power momentarily and fails to operate : Re-Boot the system by powering OFF waiting 15 seconds then power on.

In the event of a power failure the lift can be easily operated manually by removing the drive unit, see (Dismantling the drive assembly) section below.

The operator can now very simply rotate the screen to the desired mode, either Landscape or Portrait, until now this was previously a mammoth and dangerous task to perform.

Once the monitor has been raised to the desired position always disconnect the drive unit from the power supply as this will eliminate the possibility of accidental damage and remove the risk of electric shock.
The supply is now free be used to power up the display unit.

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Always take into account the risks to yourself and others. Keep the lift and surrounding area tidy to avoid any trip hazard.
Never use damaged or faulty power supply lines and keep all leads out of harms way.
Do not attempt to carry the lift (75kg gross weight) as injury can occur, wheels are provided for your convenience and safety.

Monitor Lifting Bracket - Panasonic 85"& 103"

If your monitor requires the lifting bracket please follow the instructions as defined below.

1. Offer the frame to the back of the monitor and align the 6 holes.
2. Insert the 6 x M16 Socket Head Button Screws & Spacer Bushes through the **lifting bracket** making sure to place the large flat washer between the screen and the lifting bracket then screw them fully home into the monitor and tighten to approx 20ft lb / 26nm. **See fig 1**
3. Ensure the **wave washer** is against the **lifting bracket** followed by the spacer bush. (See fig 1 below)

Dismantling the lift

In the event that the lifting pillar needs to be separated from the base follow these instructions.

1. Position and support the lift with the pillar in a horizontal plane to access the bottom of the base.
2. Remove the 6 x M1O x 35HT coach bolts by taking off the nyloc nuts with a 17mm wrench shown as main assembly item K- Taking care not drop the base and pillar!
3. Assembly is the reverse of the above tightening the nuts to 281b ft / 38nm.

Dismantling the drive assembly

If for any reason you need to remove the power pack assembly follow as below.

1. Fully unscrew the 2 x M8 nyloc nuts using a 13mm wrench leaving the nuts on the bolts at the end of the thread, slide the bolts over to the left when looking at the lift from the front Fig 3 item M.
2. Do not take the nuts fully off as the bolts will drop inside the lift pillar!
3. Remove the limit switch cable from the control box by unscrewing the collar on the plug.
4. Lift the drive upwards as viewed in the main diagram this will allow the 2 coach bolts to exit the mounting plate and allow removal.
5. If manual operation is required it can be achieved by turning the drive nut at the top of the pillar with a 22mm wrench,
6. Replacing the unit is a reversal of the above tightening the M8 nuts to 18Ib ft / 24nm.

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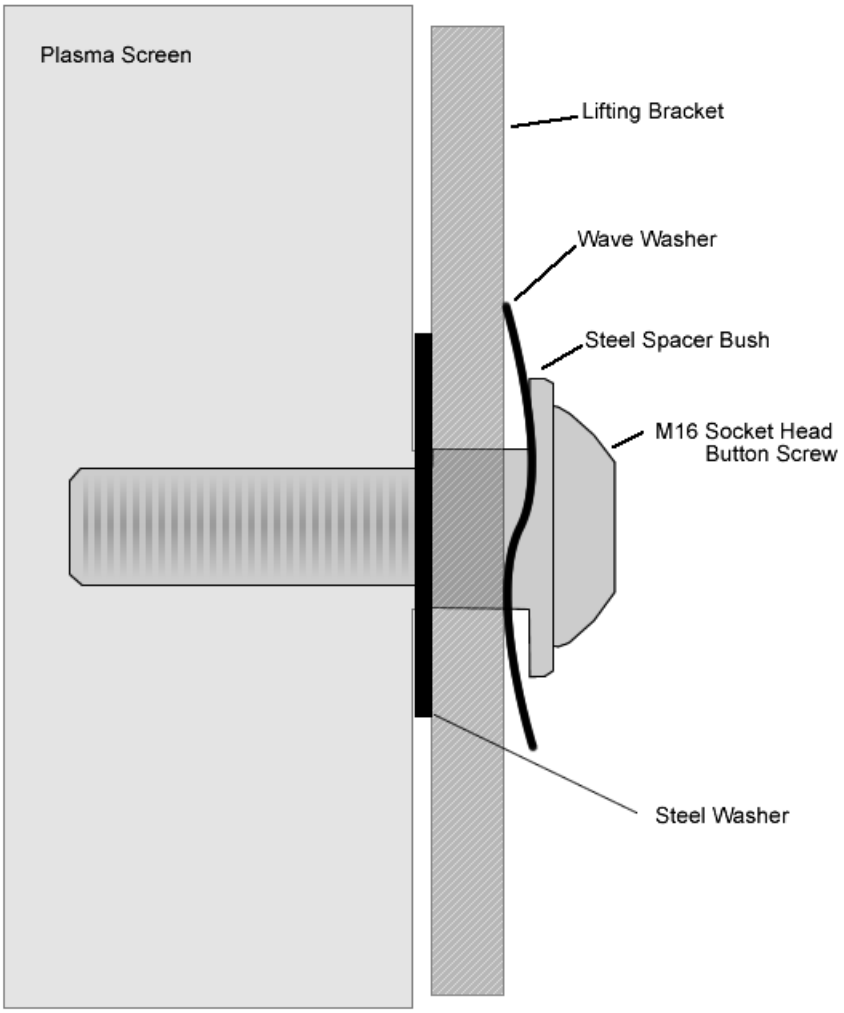
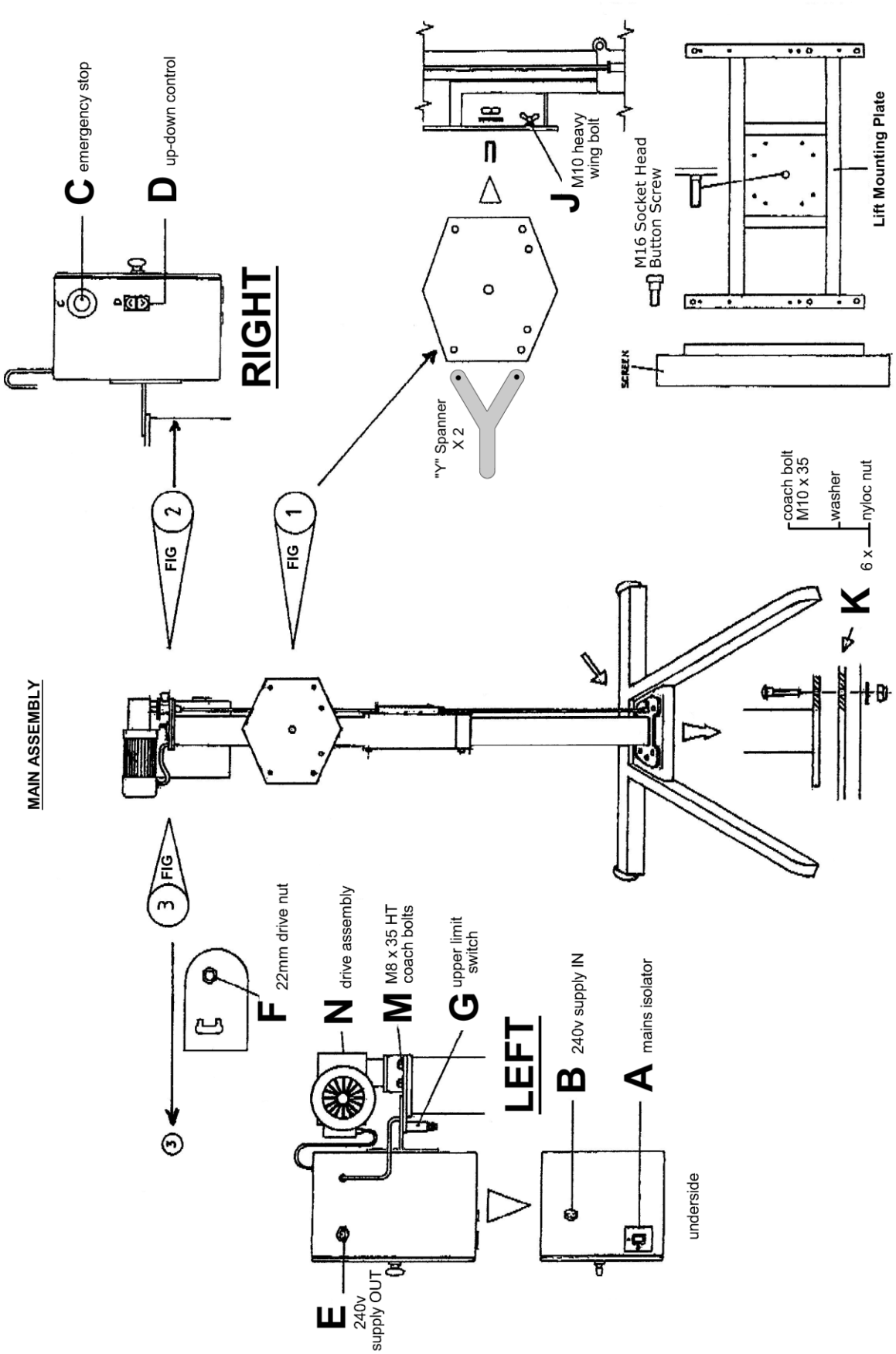
Care and Maintenance

1. Keep the lift clean and dust free as contamination will affect the performance and damage the paintwork.
2. Lubricate the screw shaft plus the top and bottom bearings with a light to medium bearing grease.
3. Have the lift checked annually for damage and never use with faulty components

This product is manufactured to the highest standards and tolerances, It is constructed with only CE approved components and materials to the relevant British Standards.
It has been tested to well in excess of its intended design parameters and meets all relative UK legislative requirements and has also undergone extensive load testing before leaving the factory. Conforming to the above guidelines will give many years of trouble free service.

Fig 1





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Recommendations for PAT Testing when VSD's are involved

It is allowable to perform the following tests on equipment containing VSD's

1. Thorough visual inspection of the equipment
2. Earth Continuity Test
3. Touch Leakage Test

DO NOT perform an insulation resistance test on this device.

The VSD contains voltage limiting devices designed to protect the VSD against voltage spikes that can occur on industrial networks. ***These devices will also activate when an insulation resistance test is carried out,*** *the test will show as a* ***fail and the VSD can be damaged.***

Test Type	***Result***
Visual Test =	*No Damage*
Earth Bond Test 25A =	*<10ohm*
Touch Leakage Test 0.25mA =	*<10ohm*