

# Genie Trap – Installation and Operations Document

## Installation

Equipment required:

- 4 - Beam Clamps
- 4 - Clutch Chains
- 4 - Master Links
- 4 – 0.5m Round Strops
- 20 - Shackles
- 6 – 3m Round Strops
- 2 – Chain Hoists
- 1 – 2m Box Truss

Method:

Create a bridle above the grid using the 2 beam clamps, 2 clutch chains, 4 shackles, 1 master link and 2 strops; ensure point above grid when strain is put on bridle. Create a second bridle roughly 1.5m from the first bridle, parallel with the trap length.

Attach the hook of the chain hoist to a length of rope from the grid and pull the hook and length of chain up to the grid. **As the chain length is pulled up, the weight on the rope will gradually become more and therefore it may require more than one body on the grid to hoist up.** Do this with the second motor hoist and grid point.

Attach the chain hoist hooks to each bridle and retract the motors until the hoists themselves are floating above the stage floor.

Attach a strop to either side of the 2m box truss and shackle each end to the motor hoists. When the truss is connected, raise the motor hoists and the truss above the trap top and align the truss with the centre line of the trap.

Open the trap slider, bring up lifting plate and remove weights from the cradle, lower plate again. Remove the trap plate to manoeuvre it into the floor easier.

Choke the strops onto the top of the trap structure and attach to the floating truss.

Using the stage floor keys, remove the the floor panel that the trap will be installed in and **also the floor panel downstage (or upstage) of the trap.** If the open hole in the floor is going to be left for more than a short period of time follow proper health and safety precautions.

Attach a length of rope to each side of the trap structure before floating the device. These ropes will be used as control lines to manoeuvre the trap into place without getting too close to the open stage floor.

When the steps above have been completed, **stay clear of the open floor** and retract the motor hoists until the trap is floating. Use the control lines to slow the swing of the trap and when it is aligned with the open stage floor, lower the motor hoists until the trap is sitting on the pit floor.

Replace the stage floor opposite to the trap placement and install the trap plate again.

De-rig motors etc.



## Operation

**Before** operating the trap, make sure that the **slider handle lock pin is in**, the trap riser **brake is on**, the **correct weight** is added and the **Perspex sheeting is in place**. Have a spotter on the deck to ensure safety and the prop (length of box metal) on standby.

For Raising a Performer:

- Once all of the above has been checked, allow performer on to the platform.
- Release locking pin from slider handle
- Once the green light has gone, turn the slider handle 3 ½ times, and release brake on the riser.
- Wait until the slider is fully open and pull down on the rope until the riser is level with the stage. Apply brake as soon as possible.
- Check locking pin is in the slider handle.
- Place prop between the floor and the top of the trap.

For Lowering a Performer:

- Remove prop.
- Once all of the above has been checked, allow performer on to the platform.
- Wait until green light has gone (spotter and DSM are happy)
- Release locking pin on slider handle. Release brake on riser and pull rope up. Crew member on the entrance of the trap can assist by pulling the platform down, and then making sure performer stays on platform until brake is applied.
- Turn slider handle 3 ½ quickly with force until slider is in place.
- Check locking pin is in the slider handle.