

## Friction Hinge & Lever Adjustment

The hatch positioning is obtained with the use of the friction lever (see photo) on larger hatches and friction hinges (see photo) on smaller hatches. Adjustment of these units are pre-set when manufactured to give correct positioning with a minimum opening load.

It may be necessary occasionally to adjust the lever setting to correct the operation of the hatch.

### **Hatches with Lever Stays**

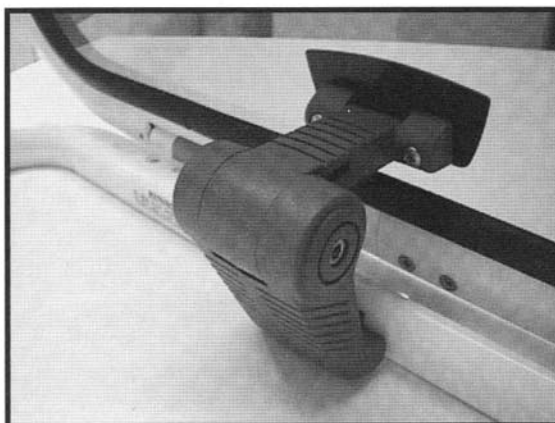
Adjustment is made by means of the socket head screw on the side of the lever assembly. Using 3mm hexagon key, turn the adjusting screw approximately 1/8th of a turn in a clockwise direction to increase the positioning force.

***Do not over tighten the adjusting screws***

***On hatches with multiple lever units, care must be taken to adjust all levers to a similar loading.***

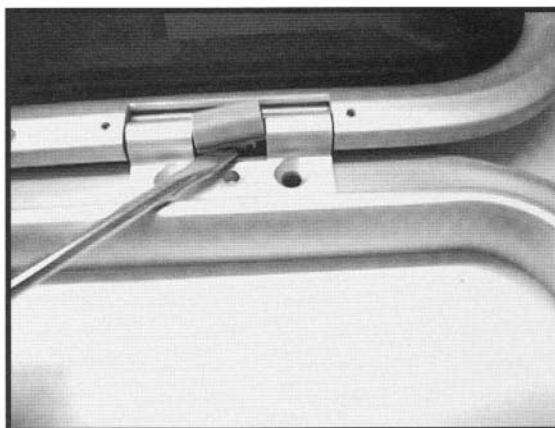
Open the hatch and check for correct operation. Re-adjust if necessary until the desired operation is achieved.

Lubricants must not be used on the friction lever assemblies as this will adversely affect the function of the units.



### **Hatches without Lever Stays**

Firstly remove the plastic hinge cover (see photo) with the hatch in the open position.



Adjustment of the hinges is made by turning the jacking nut and bolt (see photo) with two small pins eg small hexagon key. Holding one part still and rotating the other anti-clockwise will increase the friction. Adjust each hinge by 1/4 a turn at a time and check the adjustment.

***Do not over tighten the adjusting screws***

Open the hatch and check for correct operation. Re-adjust if necessary until the desired operation is achieved.



# Low Profile Hatch Fitting & Adjustment Instructions

*(To be retained in owners manual for future reference)*

Low Profile hatches are for use on deck and coachroof of yachts in accordance with **ISO/DIS 12216.2(E), DESIGN CAT "A", AREAS II, III and IV**. Modification of the hatch by the fitting of vents etc. will invalidate the compliance with this standard.

## **Fitting Instructions**

Low Profile hatches should be fitted to a flat surface with a maximum tolerance of +/- 1mm and a deck/hull thickness minimum of 15mm (5/8"). Check that all fastening will be clear of deck moulding radii etc. Allow clearance for lid opening.

***Do not open and close the hatch more than necessary until the lower frame is securely mounted.***

Mark the deck with a pencil around the outside edge of the lower frame flange. If Trims are fitted allowance for their thickness will need to be made.

***It is essential that the lower frame is placed squarely on the deck opening.***

***When fitting a number of hatches it is advisable to prepare a template.***

Cut out deck along the pencil line using a suitable saw.

Where the deck is of composite construction, it is recommended that the exposed laminate be sealed with the appropriate material prior to fitting the hatch. Openings cut in metal decks should have all burrs and sharp edges removed. (It is recommended that the lower frame of the hatch is suitably insulated from the deck if there is a possibility with electrolytic corrosion with the aluminium frame of the hatch).

***Hatches should not be considered as stiffening members and it is recommended that the deck be adequately stiffened to prevent distortion during heavy weather.***

Re-check the frame on aperture and then apply bedding compound to the channel in lower frame. Bedding compound must have good adhesive qualities (eg. silicone sealant), be of a suitable grade for marine sealing applications, of 3mm minimum thickness and compressible to allow the lower frame to be pulled down in contact with the deck by the tightening screws.

Position lower frame over hole and drill two fixing screw holes in opposite corners. Insert appropriate stainless steel fasteners, size M6 in way of the hinge and M5 in all other positions, of the type listed below.

## **Deck type**

*Wood* Through bolts or marine grade wood screws.

*GRP/Steel/Al Alloy* Through bolts or machine screws into suitable tapped plates.

Drill remainder of holes and fasten down from the centre working out to the corners. Clean off surplus sealant.

Once installed check for correct operation of the hatch lid, ie. closing/locking, even pressure of seal etc.

## **User Notes**

Larger hatches are not self supporting beyond the vertical position and will fall fully open if unrestrained, possibly causing damage to the deck or hatch.

The locking ventilation position is used by closing the handles into the catch block centre slot. Care should be taken not to stand on or load the hatch lid in this position, as damage could occur to the handle or catch block.

Always wash the hatch with soap, water and a soft cloth.

***Never use abrasive or solvent cleaners on the acrylic lid, as this may at a later date damage the acrylic.***

***To avoid risk of injury care should be taken to keep hands and limbs clear of lever and lid pinch zones while operating and adjusting the hatch.***