

LEWMAR®

Low & Medium Profile Hatch Fitting & Adjustment Instructions

(To be retained in owners manual for future reference)

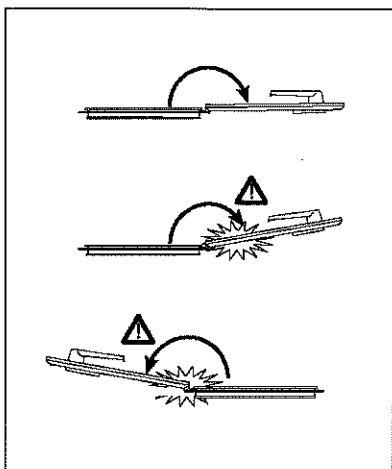
B5968-5

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

Instructions

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

Hatch must be supported near the handles when the hatch is



Do not open and close the hatch more than necessary until the lower frame is securely mounted. Larger hatches should be fitted with the Friction Levers disconnected. They should not be connected until the hatch has been fitted to

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

When fitting a number of hatches it is advisable to use a common template.

Mark along the pencil line using a suitable saw. Where the deck is of composite construction, it is recommended that the deck laminate be sealed with the appropriate material before fitting the hatch. Openings cut in metal decks should have burrs and sharp edges removed. (It is recommended that the lower frame of the hatch is suitably insulated from the deck where there is a possibility with electrolytic corrosion with the metal frame of the hatch.)

Hatches should not be considered as stiffening members and it is recommended that the deck be adequately reinforced 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 (e.g. 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.

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

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.

Be careful not to damage paint when drilling
For ideal fixing use silicone or TefGel under the screw head
Be careful when fixing screws – do not DAMAGE paint

Deck Type

Wood: M5 through bolts or marine grade wood screws
(Torque to 2.25-3.0 Nm)
Standard ply / marine ply – 3Nm
Hardwood – 2.75Nm
Softwood – 2.25Nm

GRP/Steel/Alloy: M5 through bolts or machine screws into suitable tapped plates (torque to 3.0Nm)

Fixing Size: M5, 10UNC, 2BA, 3/16" wood screws
(min. length 40mm)

Hinge Fixings: M6 or 1/4" through bolts only

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

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

User Notes

Hatches not fitted with telescopic stays (which restrict opening to around 90 degrees) 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,

Friction Hinge & Lever Adjustment

The hatch positioning is obtained with the use of one of the following systems:-

1. friction lever (see photo) on larger hatches and friction hinges (see photo)
2. friction hinges only smaller hatches
3. telescopic stay

The handle on the telescopic stay has a twist to lock action. The hatch is opened to the desired position and the handle locked to secure the hatch. The handle must be unlocked to close the hatch.

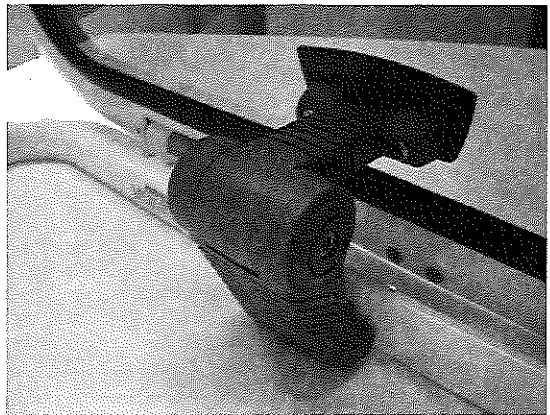
The adjustment of friction levers and friction hinges is pre-set when the hatch is supplied, giving correct positioning with a minimum opening load. It may be necessary occasionally to adjust the lever setting to correct the operation of the hatch

Adjustment of Friction Levers

Adjustment is made by means of the socket head screw on the side of the lever assembly. Using 4mm hexagon key, turn the adjusting screw approximately 1/8th of a turn in a clockwise direction to increase the positioning force.

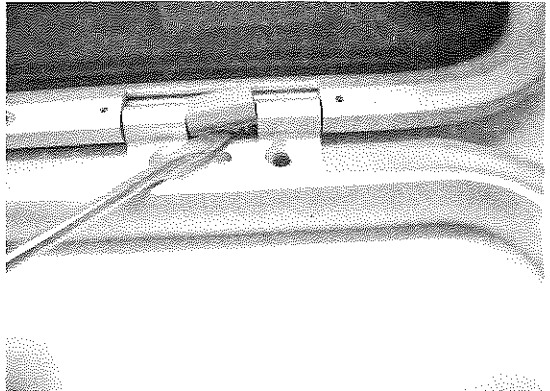
Do not over tighten the adjusting screws. On hatches with multiple lever units, care must be taken to adjust all levers to a similar loading.

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.



Adjustment of Friction Hinges

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 e.g. 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.

