

LEWMAR LIMITED WARRANTY

Lewmar warrants its products in normal usage to be free of defects in materials and workmanship for a period of three years from date of purchase by the original purchaser, subject to the conditions, limitations and exceptions listed below. Any part, which proves to be defective in normal usage during that three-year period, will be repaired or at Lewmar's option, replaced by Lewmar.

A CONDITIONS AND LIMITATIONS

- i Lewmar's liability shall be limited to repair or replacement of the goods or parts defective in materials or workmanship.
- ii Determination of the suitability of the material for the use contemplated by the buyer is the sole responsibility of the buyer and Lewmar shall have no responsibility in connection with such suitability.
- iii Lewmar shall not be liable in any way for:
 - a Failures, loss or damage due to use of products in applications for which they are not intended.
 - b Failures, loss or damage due to corrosion, ultra violet degradation, wear and tear or improper installation.
 - c Failures, loss or damage due to incorrect maintenance.
 - d Failures, loss or damage due to conditions that exceed the product's performance specifications.
- iv Product subject to warranty claim must be returned to Lewmar for examination unless otherwise agreed by Lewmar in writing.
- v Lewmar shall not be responsible for shipping charges nor installation labour associated with any warranty claim.
- vi Service by anyone other than authorised Lewmar representatives shall void this warranty unless it accords with Lewmar guidelines and standards of workmanship.
- vii Lewmar's products are intended for use only for marine purposes. Buyers intending to use them for any other purpose should seek advice from Lewmar, and Lewmar shall be under no liability arising from use, which Lewmar has not approved.

B EXCEPTIONS

Warranty is limited to a period of one year from the date of purchase in the case of the following:

- Bow thrusters
- Electric motors and electrical equipment
- Electronic controls
- Hydraulic pumps, valves and actuators
- Weather seals
- Products used in "Grand Prix" racing applications

C LIABILITY

- i Lewmar's liability under this warranty shall be to the exclusion of all other warranties or liabilities (to the extent permitted by law). In particular (but without limitation):
 - a Lewmar shall not be liable for:
 - Any indirect or consequential loss including (without limitation) any loss of anticipated profits, damage to reputation or goodwill, loss of expected future business, damages, costs or expenses payable to any third party or any other indirect losses.
 - Any damage to yachts or equipment.
 - Death or personal Injury (unless caused by Lewmar's negligence).
 - b Lewmar grants no warranties regarding the fitness for purpose, use, nature or satisfactory quality of the goods.
- ii Where the laws of the country do not permit a warranty to be excluded, then such warranty, if permitted by that country's law, shall be limited to a period of one year.

D SEVERANCE CLAUSE

If any clause of these warranties is held by any competent authority to be invalid or unenforceable in whole or in part of the validity of the other clauses of this warranty and the remainder of the clause in question shall not be affected.

- E This warranty gives you specific legal rights, and you may also have other legal rights, which vary, from country to country.

Where the products are sold in the UK under a consumer transaction, the buyer's statutory rights are not affected
Lewmar Limited reserves the right to alter design and specification without prior notice.

TERMS AND CONDITIONS OF SALE

All sales are subject to Lewmar's General Terms and Conditions of Sale, which can be obtained from Lewmar Limited Head Office in Havant. The foregoing warranty and the following General Conditions of Sale form part only of, but also supplement, Lewmar's General Terms and Conditions of Sale. In the event of any conflict between the foregoing warranty and the following General Conditions of Sale on the one hand and Lewmar's full General Terms and Conditions of Sale on the other, Lewmar's full General Terms and Conditions of Sale shall prevail.

Prices

All prices are subject to change without prior notice due to the fluctuating costs of materials and wages. Prices are ex-warehouse and are those ruling at the date of despatch and exclude VAT, which will be charged as appropriate.

Quotations

Any quotation is open for acceptance for a period of 30 days from the date of quotation. Quotations can only be regarded as firm when they are put in writing. (Verbal estimates are made purely for indicative purposes.)

Return of goods

RETURNED GOODS WILL NOT BE ACCEPTED NOR CREDIT ISSUED UNLESS THE RETURN IS AUTHORISED BY LEWMAR IN WRITING.

An authorisation will be issued on approval of return.

All carriage charges on returned goods must be prepaid.

All returned goods accepted and subsequently returned to our stock will be subject to a 15% restocking charge.

Items returned in a damaged condition will not be credited at full value.

Custom fabricated items or parts will not be accepted for return.

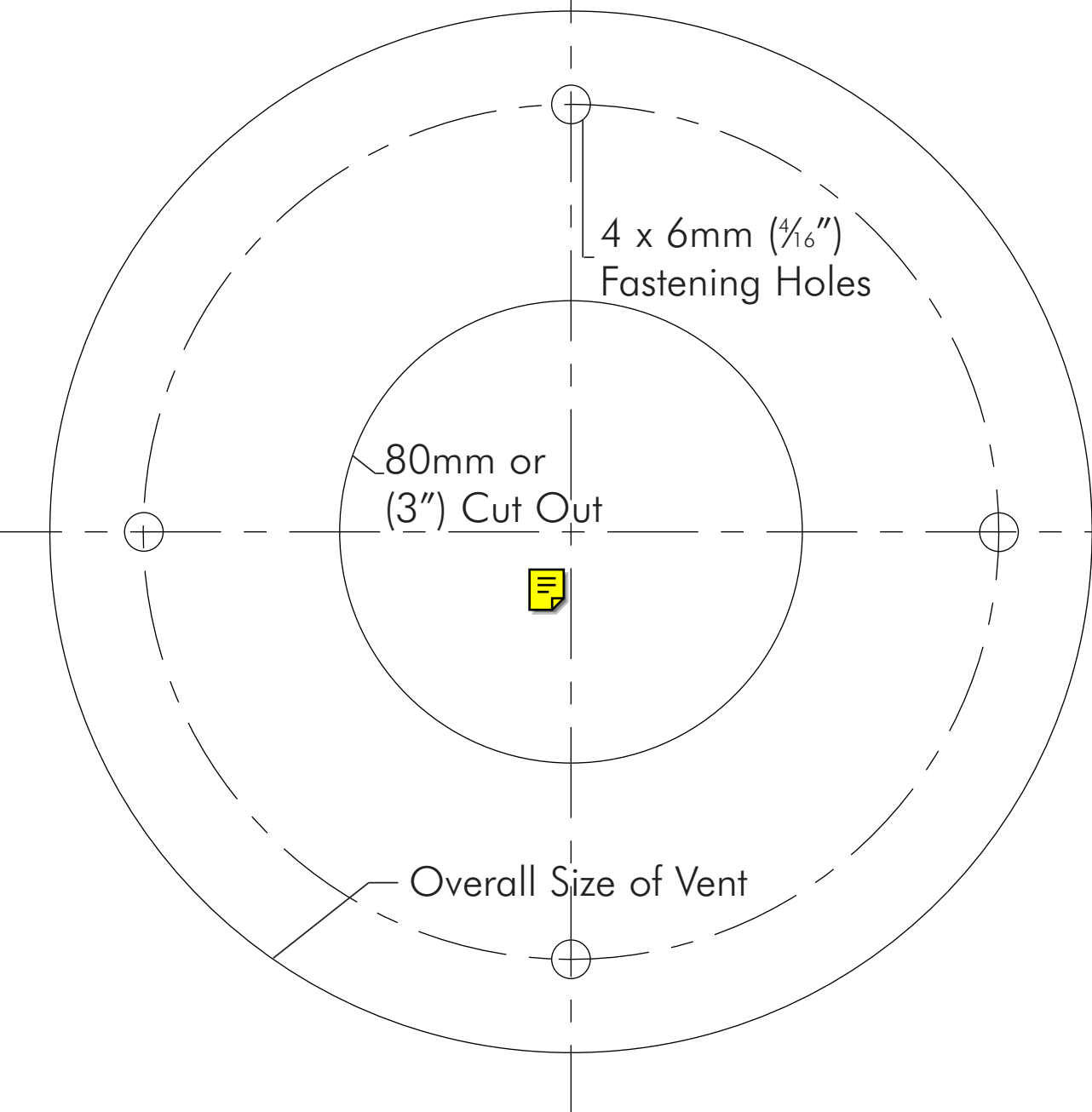
Catalogues

Sales literature and product manuals are available from Lewmar on request. These items can also be ordered from our Web site.

Availability

Goods can be obtained from your local boat builder or chandler. We will be pleased to inform you of your nearest supplier.

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EINBAUANLEITUNG FÜR LÜFTER

Deutsch

Anmerkungen

- 1 Für die Befestigung des Lüfters auf der Luke wird kein Dichtungsmittel benötigt
- 2 Beim Schneiden oder Bohren von Acryl muss von beiden Seiten gebohrt bzw. geschnitten werden. Durchschneiden oder Durchbohren lässt das Acryl auf der Unterseite beim Durchdringen abplatzen.
- 3 Tapen Sie die Lüfter- Grundplatte auf die Luke und stellen Sie sicher, dass sie frei an Handgriffen, Stagen etc freikommt.
- 4 Bohren Sie ein Pilotloch für die Topfsäge
- 5 Sägen Sie das Loch von beiden Seiten mit einer 80mm (3") Lochsäge.
- 6 Bohren Sie Pilotlöcher für die Befestigungsschrauben.

- 7 Bohren Sie 6mm (1/16") Befestigungslöcher von beiden Seiten
- 8 Setzen Sie den Lüfter mit Innenteil, O- Ring und Dichtung zusammen.
- 9 Passen Sie ihn auf die Luke.
- 10 Ziehen Sie die Schrauben von innen an.
- 11 Ziehen Sie den Verschluss, um den Lüfter zu schliessen. Der Lüfter kann auch auf Decks montiert werden.
- 12 Für umgedrehte Befestigung müssen die Kappen der Befestigungsschrauben herausgebrochen werden. Bei Überkopfanbringung müssen die Schrauben mit Dichtungsmasse eingesetzt werden. Es müssen andere Schrauben als die gelieferten verwendet werden. Ein Trim ist unter der Teilenummer 361040992 zu bestellen.

VENT FITTING INSTRUCTIONS

Notes

1 No sealant is required for fitting this vent to a hatch

2 When cutting or drilling acrylic it is necessary to come in from both sides. Drilling or cutting all the way through will result in the acrylic breaking out when cutter comes through.



3 Tape the vent template to the hatch ensuring it is clear of all handles, stays etc.



4 Drill a pilot hole for the hole saw.



5 Cut the hole in from boat sides using a 80mm (3") hole saw.



6 Drill pilot holes for fastenings

7 Drill 6mm (1/16") fastening holes from both sides.



8 Assemble ventilator with inside, o-rings and seal all in place.



9 Fit to the hatch.



10 Fasten from the inside.



11 "Pull down plunger to close"



12 The vent may also be fitted to decks. For top down fastening break out the top of the fastening holes. When top down fastening use sealant to seal the screw holes. It will be necessary to use fixings other than those supplied. A trim is available on part number 361040992.



INSTRUCTIONS DE MONTAGE

Français

Recommandations importantes:

- 1 Aucun joint d'étanchéité n'est nécessaire pour le montage de la ventilation sur un panneau.
- 2 Le perçage ou le découpage de l'acrylique nécessite d'être effectué à partir de ses deux faces. Si vous percez ou découpez en continu à partir d'une face seulement, le panneau en acrylique se fendra au moment où votre mèche ou votre lame le traversera.
- 3 Collez le gabarit de perçage sur le panneau et assurez-vous que la surface à découper/percer est libre de toute poignée, jambe de soutien, etc.
- 4 Percez un trou de guidage pour la lame de la scie.
- 5 Pratiquez la découpe à partir des deux faces avec une lame de scie de 80 mm.

- 6 Prépercez les trous de fixation.
- 7 Percez les trous de fixation (6 mm) des deux côtés.
- 8 Assemblez la ventilation (partie intérieure, rondelles) à la découpe pratiquée.
- 9 Mettre les fixations.
- 10 Serrez de l'intérieur.
- 11 Tirer le piston vers le bas pour fermer.
- 12 La ventilation peut également être montée sur le pont. Dans ce cas, percez le haut des trous de fixation pour les dégager, et utilisez du joint d'étanchéité dans les trous de perçage. Pour ce type de montage, il est nécessaire d'utiliser d'autres fixations que celles fournies pour le montage sur panneau (ces fixations peuvent être commandées sous la référence 361040992).

LEWMAR 'SUPERHATCH' – FITTING INSTRUCTIONS

1. POSITION HATCH ON FLAT SURFACE. CHECK THAT ALL FASTENINGS WILL BE CLEAR OF ANY RADIUS IN MOULDING.
2. MARK WITH PENCIL INSIDE LOWER EDGE OF BASE FRAME.
NB : A) IT IS ESSENTIAL THAT THE LOWER FRAME IS PLACED "SQUARE" ON THE HATCH OPENING.
B) FOR MORE THAN ONE HATCH IT IS ADVISABLE TO PREPARE A TEMPLATE.
3. CUT OUT TOP TO PENCIL LINE USING SUITABLE JIG SAW ETC. . . . IN THE CASE OF SKIRTED FRAMES ALLOW 3MM EXTRA ON APERTURE SIZE.
4. POSITION BASE FRAME OVER HOLE AND DRILL TWO BASE FRAME HOLES IN OPPOSITE CORNERS USING A 5MM DRILL. BOLT THE BASE FRAME DOWN USING THESE TWO BOLT HOLES WITH 2 x M5 CSK BOLTS. DRILL BALANCE OF HOLES 5MM AND THE TWO HINGE HOLES 7MM ON FRAME.
5. REMOVE THE FRAME, CLEAR AWAY SWarf, APPLY BEDDING COMPOUND TO UNDERSIDE OF BASE FRAME AND BOLT FIRMLY IN PLACE, FROM CENTRE WORKING OUT TO THE EDGES, USING M5 BOLTS. MAKE SURE COMPOUND SPREADS EVENLY OUT FROM THE FRAME.
6. HOOK IN THE LID/HINGE TOP AND BOLT IN PLACE USING 2 x M6 CSK BOLTS AT EACH HINGE POSITION. (USE THE BACKING PLATES PROVIDED UNDER EACH HINGE TO SPREAD ANY LOAD ON THE UNDERDECK SIDE.)
7. CHECK FOR CORRECT OPERATION OF THE LID, CLOSING/LOCKING OPERATION, EVEN PRESSURE ON SEAL ETC. . . . CLEAN OFF SURPLUS SEALANT.
8. BOLTS MUST BE USED FOR THE HINGES, SCREWS ARE INADEQUATE.

LEWMAR "SUPERHATCH" – MONTAGE INSTRUKTIONEN

1. Plazieren Sie die Luke auf eine ebene Fläche. Überprüfen Sie, ob alle Verschlüsse sich frei bewegen lassen.
2. Zeichnen Sie die untere Kante für den Rahmen mit einem Bleistift ein.
ANMERKUN : A) Es ist von grobter Bedeutung, daß der unter Rahmen im rechten Winkel zur Lukenöffnung plaziert wird.
B) Für mehr als eine Luke empfiehlt es sich, eine Schablone anzufertigen.
3. Schneiden Sie das Oberteil mit einer geeigneten Säge bis zur Bleistiftlinie aus. Falls es sich um Rahmen mit Leisten handelt, geben Sie 3 mm zusätzlich zur öffnungsgroße hinzu.
4. Bringen Sie den Rahmen über das Loch und bohren Sie mit einem 5 mm Bohrer zwei Locher in die gegenüberliegenden Ecken des Grundrahmens. Schrauben Sie den Grundrahmen mit 2 x M5 CSK Schrauben durch diese beide Locher fest. Bohren Sie die restlichen 5 mm Locher und die beiden 7 mm Scharnierlocher in den Rahmen.
5. Entfernen Sie den Rahmen und die Späne; streichen Sie Dichtungsmasse auf die Unterseite des Grundrahmens und schrauben Sie diesen fest an seinen Platz. Verwenden Sie M5 Schrauben und beginnen Sie in der Mitte und arbeiten dann nach außen hin. Stellen Sie sicher, daß die Masse gleichmäßig vom Rahmen aus verbreitet ist.
6. Haken Sie das Deckel-/Scharnieroberteile ein und schrauben Sie es unter Verwendung von 2 x M6 Schrauben an jeder Scharnierposition an seinen Platz. (Verwenden Sie die mitgelieferten Unterlegplatten unter jedem Scharnier, um so die Belastung auf der Unterdeckseite auszubreiten.)
7. Überprüfen Sie die korrekte Funktion des Deckels, die Verschlussfunktion, den Druck auf die Abdichtung etc. Wischen Sie die überflüssige Dichtungsmasse ab.
8. Für die Scharniere müssen Schrauben mit Muttern verwendet, nur Schrauben reichen nicht aus.

LE "SUPERHATCH" LEWMAR – NOTICE DE MONTAGE

1. PLACER LE PANNEAU DE PONT SUR UNE SURFACE PLANE. VÉRIFIER QUE TOUTES LES FIXATIONS SERONT POSSIBLES.
2. TRACER AU CRAYON LE CONTOUR INTÉRIEUR DE L'EMBASE (DORMANT).
NB : A) IL EST ESSENTIEL QUE L'EMBASE SOIT PLACÉE EXACTEMENT SUR L'OUVERTURE DU PANNEAU.
B) SI L'ON A PLUS D'UN PANNEAU DE LA MÊME TAILLE, IL EST CONSEILLÉ DE PRÉPARER UN GABARIT.
3. DECOUPER LE PONT SUIVANT LE TRACÉ EN UTILISANT UNE SCIE ETC. . . . POUR DES EMBASES A JUPES, AJOUTER 3MM DE PLUS SUR TOUT LE PÉRIMÈTRE DE L'OUVERTURE.
4. PLACER L'EMBASE SUR L'OUVERTURE ET PERCER DEUX TROUS DANS DEUX COINS OPPOSÉS EN UTILISANT UN FORET DE 5MM, BOULONNER L'EMBASE AU NIVEAU DE CES DEUX TROUS AVEC DES BOULONS TÊTES FRAISÉES DE 5MM., PERCER LES AUTRES TROUS AVEC UN FORET DE 5MM ET CEUX DES CHARNIÈRES AVEC UN FORET DE 7MM.
5. ENLEVER L'EMBASE, NETTOYER, METTRE DU JOINT D'ÉTANCHÉITÉ SOUS LE CADRE ET LE BOULONNER FERMEMENT EN PLACE, DU MILIEU DES CÔTÉS VERS LES COINS, EN UTILISANT DES BOULONS DE 5MM. S'ASSURER QUE LE JOINT S'ÉTALE DE FACON RÉGULIÈRE.
6. FIXER L'OUVRANT SUR LES CHARNIÈRES ET BOULONNER AVEC DEUX BOULONS DE 6MM CHACUNE DES CHARNIÈRES. (UTILISER LES PLAQUES DE RENFORT FOURNIES AVEC LES CHARNIÈRES POUR RÉPARTIR LA PRESSION SOUS LE PONT.)
7. S'ASSURER QUE L'OUVRANT FONCTIONNE CORRECTEMENT. OUVERTURE, VERROUILLAGE, PRESSION IDENTIQUE SUR L'ENSEMBLE DU PANNEAU, ÉLIMINER L'EXCÉDENT DE JOINT D'ÉTANCHÉITÉ.
8. UTILISER EXCLUSIVEMENT DES BOULONS POUR LES CHARNIÈRES, CAR DES VIS SERAIENT INSUFFISANTES.

LEWMAR "SUPERHATCH" – MONTERINGSANVISNINGAR

1. Placera luckan på en slät yta. Kontrollera att alla fästen går klara för radier i dacket.
2. Markera den inre nedre kanten på basramen med en blyertspenna.
Obs : A) Det är viktigt att basramen placeras vågrätt mot lucköppningen.
B) För seriemontering rekommenderar vi en sågmall.
3. Skär ut efter pennlinjen med en passande sticksåg etc...För ramar med fläns måste man ha 3 mm extra hålupptagning.
4. Placera basramen över hålet och borra två hål i basramen, i motsatta hörn, med en 5 mm borrh. Skruva fast basramen i dessa två hål med 2 x M5 FS skruvar. Borra symmetriska hål 5 mm och de två gångjärnshålen 7 mm i ramen.
5. Tag bort ramen, gör rent från borrester, stryk på tätningssmassa på undersidan av basramen och skruva fast ordentligt, från mitten och ut mot kanterna, med M5 skruvar. Se till att tätningssmassan trycks ut jämnt från ramen.
6. Haka på överdelen och skruva fast med 2 x M6 FS bultar i varje gångjärn. (Använd underläggsbrickorna som finns med under varje gångjärn för att sprida eventuell belastning på undersidan.)
7. Kontrollera att locket fungerar ordentligt. Öppning/stängning, jämnt tryck på tätningen etc. . . . Torka bort överflödigt tätningssmassa.
8. Bultar måste användas för gångjärnen, det räcker inte med skruvar.

LEWMAR

Portlight and Fixedlight Fitting Instructions

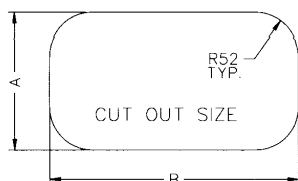
(To be retained in owners manual for future reference)

Lewmar Portlights and Fixedlights are for use on all craft types in accordance with **ISO/DIS 12216.2(E), DESIGN CAT. "A", AREAS II, III and IV**. Modification of the product will invalidate the compliance with this standard.

Fitting Instructions

Lewmar Portlight and Fixedlights should be fitted to a flat surface with a maximum tolerance of +/-1mm extending 12mm beyond the planned cutout and a deck / hull thickness of 6-34mm. Hold the inner frame on the inside of the intended position, ensure that a flat bearing area exists over the surface of the inner frame, leaving sufficient clearance for the trim to be fitted, (see sketch of typical cross section).

With a pencil mark out the cutout to the recommended dimension shown.



Size No.	Product Size	Dim A		Dim B	
		mm	ins	mm	ins
0	4x10	156	6 $\frac{1}{8}$	303	12
1	5x12	171	6 $\frac{7}{8}$	347	13 $\frac{3}{4}$
2	4x14	156	6 $\frac{1}{8}$	405	16
3	5x15	171	6 $\frac{7}{8}$	429	16 $\frac{3}{4}$
4	5x23	171	6 $\frac{7}{8}$	627	24 $\frac{1}{2}$
5	7x15	244	9 $\frac{5}{8}$	429	16 $\frac{3}{4}$
6	3x15	126	5	429	16 $\frac{3}{4}$

It is essential that the outer frame is placed squarely on the deck opening. When fitting a number of portlights it is advisable to prepare a template.

Cut out deck along 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 product. Openings cut in metal decks should have all burrs and sharp edges removed.

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

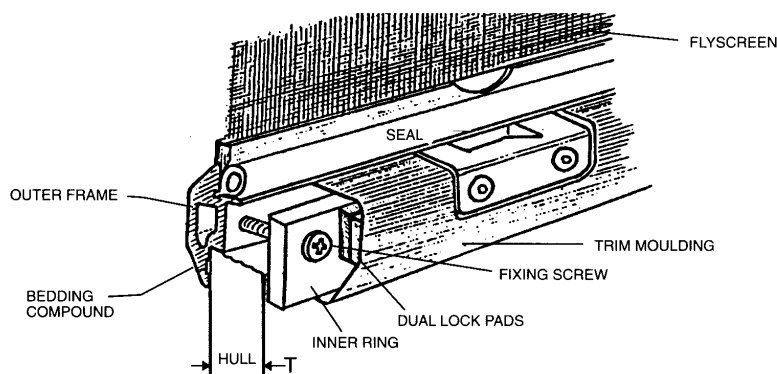
Measure thickness of skin (and inner trim if fitted).

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

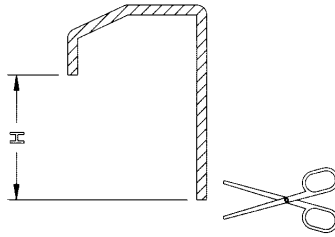
Position the outer frame unit, and with the inner frame joint on the lower edge, bolt firmly in place, working from the centre out to the ends up to a maximum torque of 2.8Nm (25 in.lb). Clean off surplus sealant.

Caution:

M5 screws supplied are for skin thickness 15-19mm. It is important that you use the correct length of screw otherwise you will damage the product. Check skin thickness and select correct length of screw from table.



Typical installation cross section
Portlight shown



Trim cross section

Adjust the trim moulding to the calculated length H by cutting the inner edge only to suit, using a fine toothed saw or tin snips, such that when fitted the trim fixes to the dual lock pads. Snap the trim moulding into final position making sure that it picks up with the dual lock pads and is fully home all around its perimeter. It is a simple matter to remove the trim by prising it away on the outside edge, refit by snapping back onto the dual lock pads. On craft with considerable curvature or difficult inner trim, it may be necessary to use more dual lock pads which are available as a spares kit. Alternatively, in extreme cases, it may be necessary to use screw fixings through the trim into the inner frame.

For portlight installations, check for correct operation of the window, closing / locking operation, even pressure on the seal etc. Don't forget to leave the flyscreen on board.

Dimension T	Screw	Order No.	Dimension H
6 – 10mm	use M5x16	19899100	H = T – 12mm Where: H = Trim length T = boat moulding measurement
11 – 14mm	use M5x20	19899200	
15 – 19mm	use M5x25	19899300	
20 – 24mm	use M5x30	19899400	
25 – 29mm	use M5x35	19899500	
30 – 34mm	use M5x40	19899600	

Alternative screw length table

User Notes

Flyscreens, when fitted are located between the outer frame and seal, enabling the portlight to be closed with the flyscreen in place. See the separate sheet for detailed instructions.

If a deadlight is required, we suggest that a plywood, aluminium or fibreglass plate be made to cover the portlight (notched to clear the hinges and handles on opening versions). The portlight trim moulding can then be removed allowing the inner frame to be drilled and tapped to facilitate bolting the deadlight in position.

Always wash the Portlight or Fixedlight with soap, water and a soft cloth.

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

LEWMAR

Trimline Hatch Fitting & Adjustment Instructions

(To be retained in owners manual for future reference)

Trimline hatches are for use on all craft types 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

Trimline hatches should be fitted to a flat surface with a maximum tolerance of +/- 1mm and a deck / hull thickness of 15-61mm. Check that all fastenings will be clear of deck moulding radii etc. Allow clearance for lid opening.

Mark the deck with a pencil around the outside edge of the lower frame flange.
It is essential that the lower frame is placed square on the deck opening.
When fitting a number of hatches it is advisable to prepare a template.

Cut out deck along 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.

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 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 securing screws.

Position lower frame over hole and drill two fixing screw holes in opposite corners. Insert appropriate stainless steel fasteners.(see below).

Deck type

Wood	M5 through bolts or marine grade wood screws.
GRP/Steel/Al Alloy	M5 through bolts or machine screws into suitable tapped plates.
Fixing Sizes	M5, 10UNC, 2BA, 3/16", Wood screws (min. length 40mm).

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, ie. closing/locking, even pressure of seal etc.

Please Turn Over

User Notes

Opening of the hatch beyond the limit of the stays for maintenance etc. is possible by removing the rubber bung stop. Gently lever the bung stop out. Supporting the lid, disengage the stay from the lower frame and lay the lid back to approximately 145 degrees, until the upper frame is resting on the deck.

During normal usage, the stays should remain engaged at all times.

Do not force the lid back or apply pressure as damage will occur to the hatch.

The locking ventilation position is used by closing the handles into the rebate in the lower frame. 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.

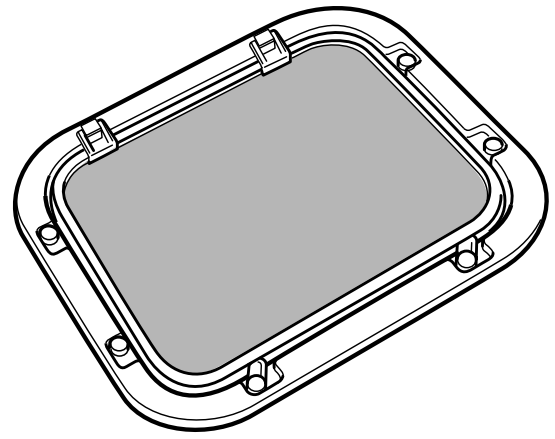
Always wash the hatch with soap, water and a soft cloth.

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 stay and lid pinch zones while operating and adjusting the hatch.

Please Turn Over

Retro Fit Hinge for Hatch Flyscreen (With Alloy Frame) Fitting Instructions



Retro-fit Flyscreen Fitting Instructions (Trim in Position)

B2184 Issue C

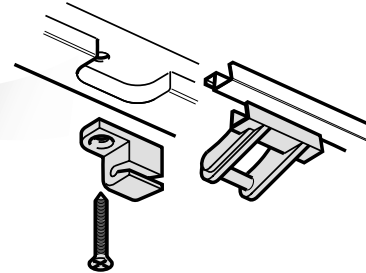
2. LOCK & SPACER

If locks were not originally fitted, remove fastenings in the locations shown. Replace with the lock assembly provided. Tighten the screws but ensure the lock can still swivel. See fig 1.

2. FRAME HINGE

Unscrew original spacers and caps. Replace with new hinge bracket assembly. See fig 2.

fig. 2



3. LOCKING

The flyscreen is held by placing its mesh face towards the trim and rotating the locks 45 degrees to hold, see fig. 3

fig. 3

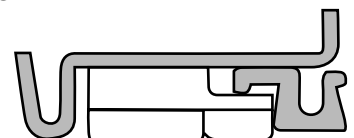
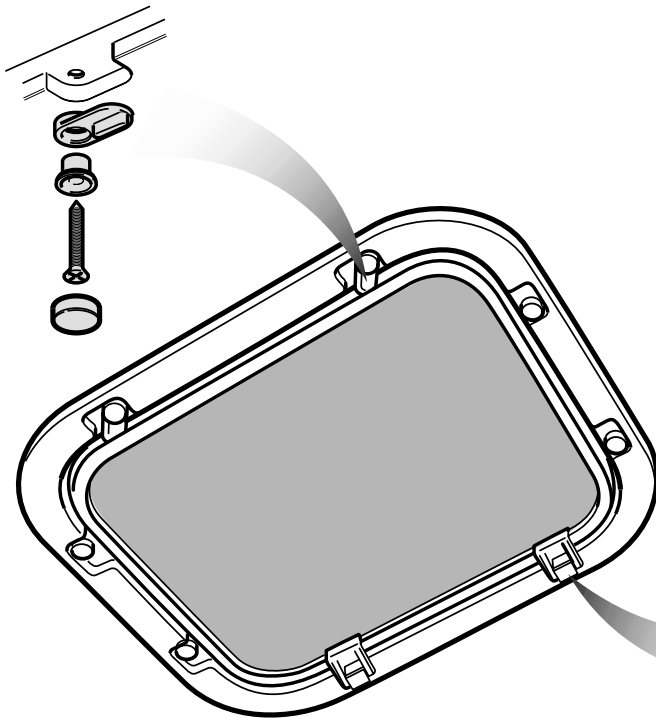


fig. 1



USER NOTES

- Use soapy water and a soft cloth. **Do not** under any circumstances use solvent cleaners.
- When the flyscreen is not in use, place in a safe area to protect the mesh.

Hatch Trim & Flyscreen Fitting Instructions

B2184 Issue C

1. TRIM MOLDING

Adjust the trim molding to suit your deck thickness, see fig. 1 below, by cutting the inner edge only.

fig. 1

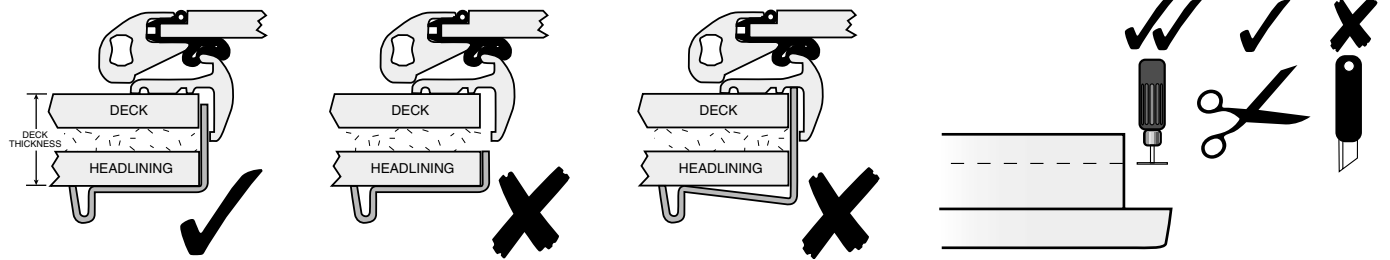
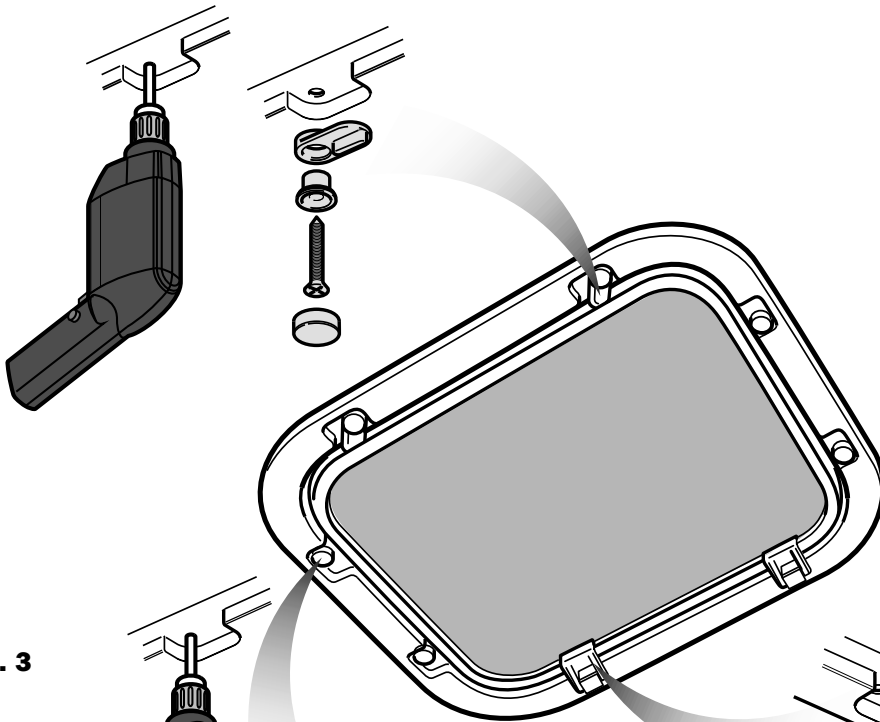


fig. 2



2. LOCK & SPACER

Position the trim under the hatch. Using the holes in the trim as guides, drill 4mm or ($\frac{5}{32}$ ") holes for the fastenings. Assemble the locks as shown, see fig 2, and fasten with the screws provided. Tighten the screws but ensure that the locks can still swivel. Repeat with the spacer only in the areas shown, see fig 3.

3. FRAME HINGE

Position the trim under the hatch. Using the holes in the trim as guides, drill 4mm or ($\frac{5}{32}$ ") holes for the fastenings. Fasten the hinge bracket. Affix the hinge over the flyscreen and clip to the hinge bracket, see fig 4.

fig. 3

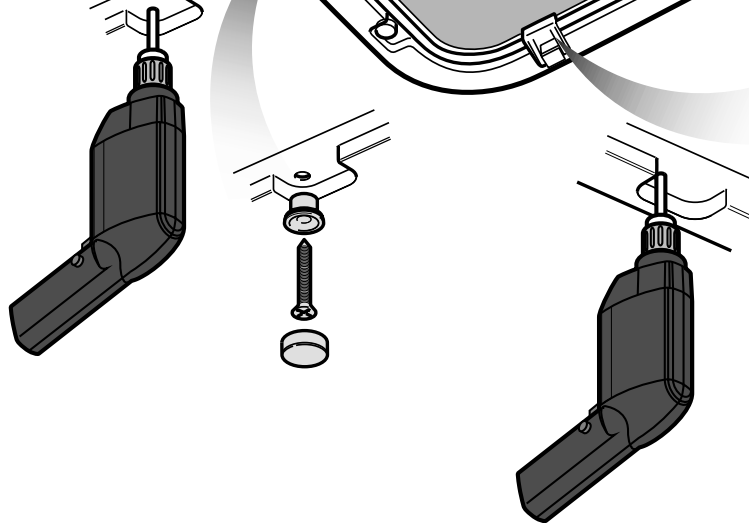
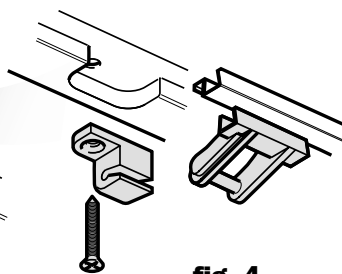


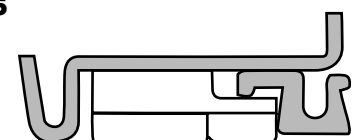
fig. 4



4. LOCKING

The flyscreen is held by placing its mesh face towards the trim and rotating the locks 45 degrees to hold, see fig. 5

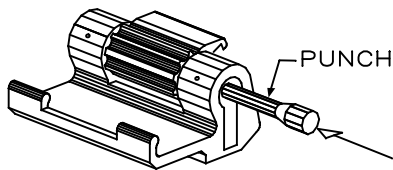
fig. 5



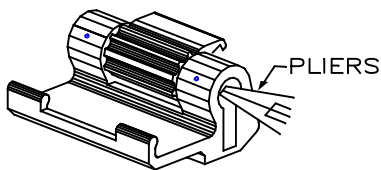
USER NOTES

- Use soapy water and a soft cloth. **Do not** under any circumstances use solvent cleaners.
- When the flyscreen is not in use, place in a safe area to protect the mesh.

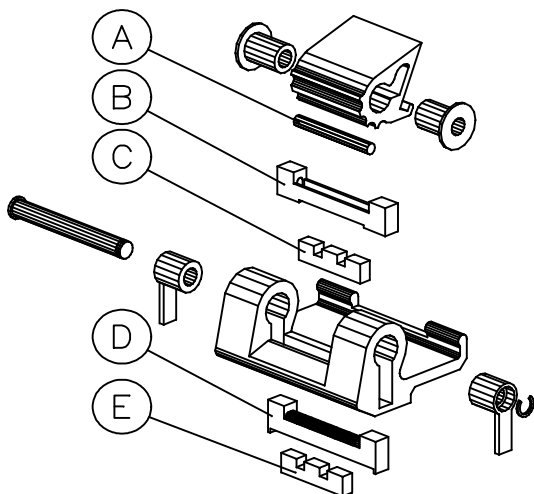
HINGE REPLACEMENT ROLLSTOP (SIZES 10,20)
(Pt 10mm HOLE ON HINGE UPPER)



1. With hatch closed use a 5mm diameter punch to knock through the hinge pin.
Note: A heavy soft headed mallet is best used to hit the punch.



2. Repeat with second hinge, and remove hatch upper. Clean the hinges removing all the old components.



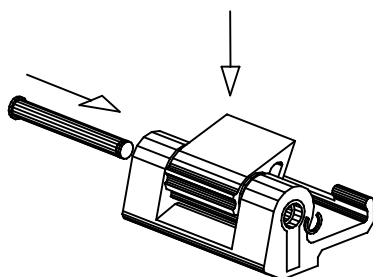
3. Note how the components are assembled, and that parts A,B,&C are replaced by two parts D&E.

Assemble the buffer to the follower and put into the lower hinge. Push the two headed bushes into the upper hinge and the two endcaps into the ends of the lower hinge. Discard parts A,B&C

NOTE USE:

Green Buffer – size 10&20 hatch

NOTE: Downward pressure is needed on the follower when pushing endcaps in place



4. With the hatch upper in the open position, match the upper and lower hinges together. Pushing down on the top of the hatch push the steel hinge pin through the hinge. Repeat with the second hinge.

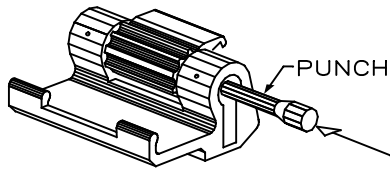
HATCH SIZE	OVERALL DIMENSIONS
10	324 x 324mm
20	266 x 411mm

5. Push the small circlip onto the end of the steel pin, ensuring it is properly located onto the groove on the pin. Two small screwdrivers are best for this. Repeat for the second pin. Check the operation of the hatch.

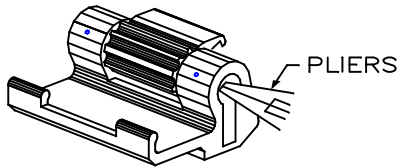
NOTE (1) If hatch cannot be opened fully assemble in closed position
(2) To aid alignment when pushing hinge pin in use a punch or screwdriver first

[PLEASE TURN OVER]

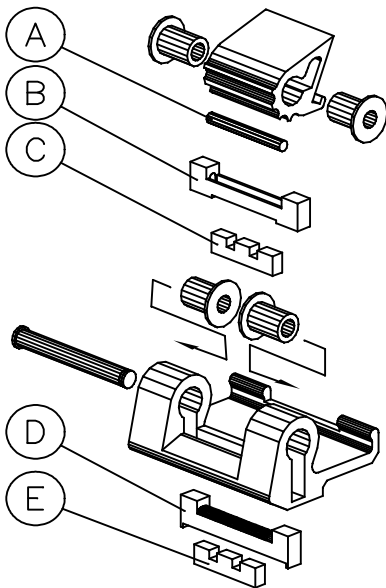
ALTERNATIVE HINGE REPLACEMENT FOR USE WITH MK1 ASSEMBLY
 Pt 8mm HOLE ON HINGE UPPER)



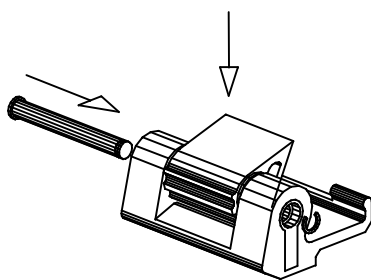
1. With hatch closed use a 5mm diameter punch to knock through the hinge pin.
 Note: A heavy soft headed mallet is best used to hit the punch.



2. Repeat with second hinge, and remove hatch upper. Clean the hinges removing all the old components.



3. Note how the components are assembled, and that parts A,B,&C are replaced by two parts D&E. Assemble the buffer to the follower and put into the lower hinge. Push two headed bushes into the upper hinge and two headed bushes into the lower hinge as shown. Discard parts A,B&C
 NOTE USE:
 Green Buffer – size 10&20 hatch
 NOTE: Downward pressure is needed on the follower when pushing endcaps in place



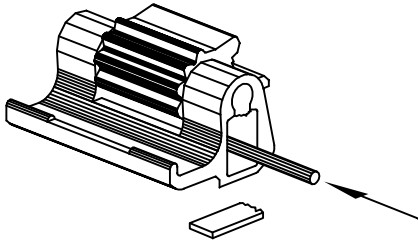
4. With the hatch upper in the open position, match the upper and lower hinges together. Pushing down on the top of the hatch push the steel hinge pin through the hinge. Repeat with the second hinge.

5. Push the small circlip onto the end of the steel pin, ensuring it is properly located onto the groove on the pin. Two small screwdrivers are best for this. Repeat for the second pin. Check the operation of the hatch.

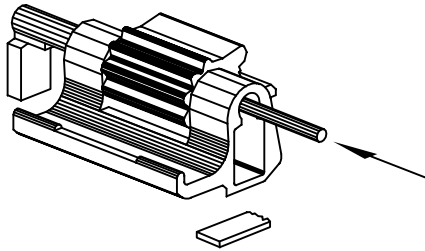
NOTE (1) If hatch cannot be opened fully assemble in closed position
 (2) To aid alignment when pushing hinge pin in use a punch or screwdriver first

[PLEASE TURN OVER]

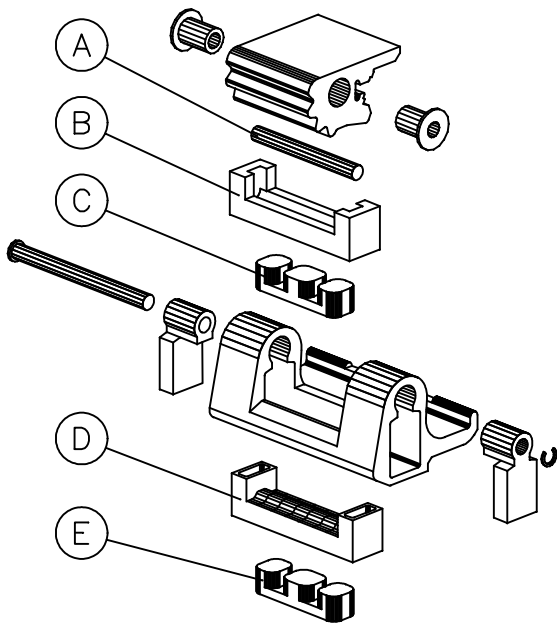
Rollstop Hinge replacement (Size 50,60,65,70)
(Instructions for 7822 & 7823 hinge kits)



1. Open hatch fully to 180°
Use a suitable drift and mallet to break off plastic tab.



2. Drive out hinge pin with drift and mallet. Repeat with other hinges, and remove hatch upper. Clean the hinges removing all the old components.



3. Note how the components are assembled, and that parts A,B,&C are replaced by two parts D&E. Assemble the buffer to the follower and put into the lower hinge. Push the two headed bushes into the upper hinge and the two sleeves into the ends of the lower hinge.

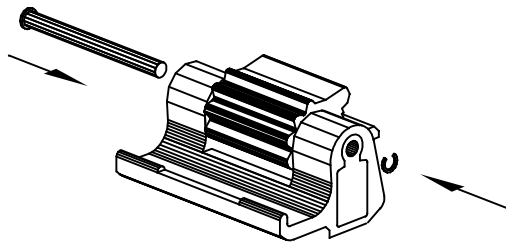
Discard parts A,B&C

NOTE USE:

Buffer painted green on bottom surface only with this kit

Vaseline should be applied to the follower and the cams on the upper hinge.

4. With the hatch upper in the fully open position, match the upper and lower hinges together. Insert the steel hinge pin through the hinge. Repeat with the other hinges.



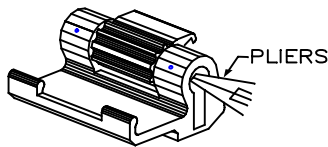
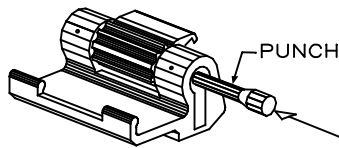
5. Push the small circlip onto the end of the steel hinge pin, ensuring it is properly located onto the groove of the pin. Two small screwdrivers are best for this. Repeat for the other hinges. Check the operation of the hatch.

Routine Maintenance

If excessive stiffness is experienced in opening or closing the hatch, the hinge must be cleaned and lubricated, otherwise damage to the hatch can occur. This maintenance will result in continued good performance from your hatch.

HINGE REPLACEMENT ROLLSTOP (SIZES 30 & 40)

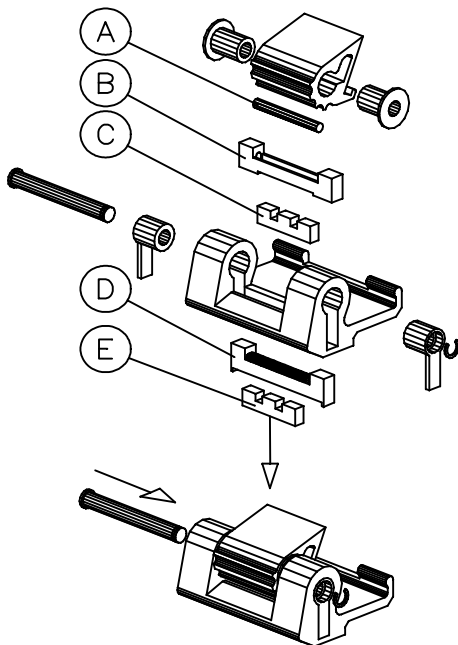
(For cat. No. 7847)



With the hatch closed use a 5mm diameter punch to knock through the hinge pin.
Note: A heavy soft headed mallet is best used to hit the punch.

Repeat with the second hinge, and remove the hatch upper. Clean the hinges removing all the old components.

Note how the components are assembled, and that parts A,B&C are replaced by two parts D&E.



Apply grease liberally to the rubber buffer (E), the cam follower (D) and the splines of the upper hinge.

WARNING:— Failure to grease these components could result in premature failure of the hatch.

Grease the lower hinges.

Assemble the buffer to the follower and put into the lower hinge. Push the two headed bushes into the upper hinge and the two sleeves into the ends of the lower hinge.

Discard parts A,B&C.

With the hatch upper in the open position, match the upper and lower hinges together.

Push the steel hinge pin through the hinge. Repeat with the second hinge.

Push the small circlip onto the end of the steel pin, ensuring it is located onto the groove of the pin. Two small screwdrivers are best for this. Repeat with the second hinge.

Cycle the hatch a minimum of three times between the 180° and 90° positions before fully closing the hatch.

If excessive force is required to initially operate the hatch to the 90° position, remove the hatch upper and check the assembly.

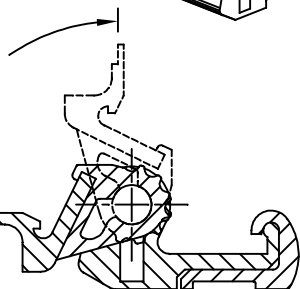
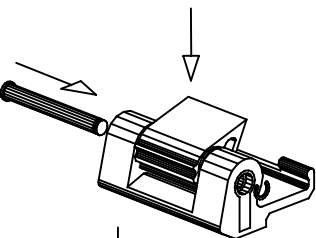
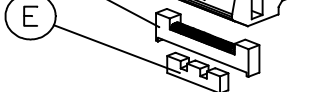
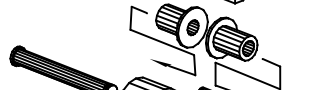
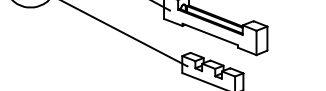
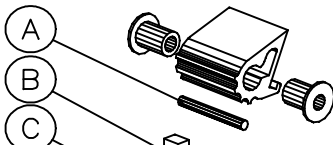
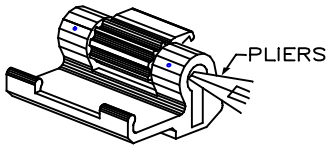
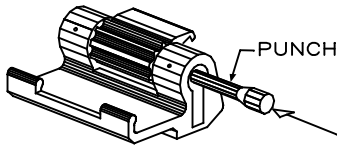
Apply more grease before re-assembly.

HATCH SIZE	OVERALL DIMENSION
30	391 x 521
40	485 x 485

PLEASE TURN OVER

(SIZES 30 & 40 WITH 8mm HOLE ON HINGE UPPER)

(For cat. No. 7847)



With the hatch closed use a 5mm diameter punch to knock through the hinge pin.
 Note: A heavy soft headed mallet is best used to hit the punch.

Repeat with the second hinge, and remove the hatch upper. Clean the hinges removing all the old components.

Note how the components are assembled, and that parts A,B&C are replaced by two parts D&E.

Apply grease liberally to the rubber buffer (E), the cam follower (D) and the splines of the upper hinge.

WARNING:- Failure to grease these components could result in premature failure of the hatch.

Grease the lower hinges.

Assemble the buffer to the follower and put into the lower hinge. Push the two headed bushes into the upper hinge and two headed bushes into the lower hinge as shown

Discard parts A,B&C.

NOTE: Downward pressure is needed on the follower when pushing endcaps in place

With the hatch upper in the open position, match the upper and lower hinges together.

Push the steel hinge pin through the hinge. Repeat with the second hinge.

Push the small circlip onto the end of the steel pin, ensuring it is located onto the groove of the pin. Two small screwdrivers are best for this. Repeat with the second hinge.

Cycle the hatch a minimum of three times between the 180° and 90° positions before fully closing the hatch.

If excessive force is required to initially operate the hatch to the 90° position, remove the hatch upper and check the assembly. Apply more grease before re-assembly.

NOTE!

- (1) If hatch cannot be opened fully, assemble in closed position.
- (2) To aid alignment when pushing hinge pin in, use a punch or screwdriver first.

HATCH SIZE	OVERALL DIMENSION
30	391 x 521
40	485 x 485

LEWMAR

Trimport / Coastline Fitting & Adjustment Instructions

(To be retained in owners manual for future reference)

Trimport and Coastline 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

Trimport and Coastline hatches should be fitted to a flat surface with a maximum tolerance of +/- 1mm and a deck / hull thickness of 15-61mm. 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.

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 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.

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 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 securing screws.

Position lower frame over hole and drill two fixing screw holes in opposite corners. Insert appropriate stainless steel fasteners.(see below).

Deck type

Wood	M5 through bolts or marine grade wood screws.
GRP/Steel/Al Alloy	M5 through bolts or machine screws into suitable tapped plates.
Fixing Sizes	M5, 10UNC, 2BA, 3/16", Wood screws (min. length 40mm).

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, ie. closing/locking, even pressure of seal etc.

Please Turn Over

User Notes

Small "vent" hatches are restricted to 90 degree opening and should not be forced beyond their "stop" position, as damage to the lever mechanism may occur. Larger hatches are not self supporting beyond the vertical position and will fall fully open if unrestrained.

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.

Friction lever adjustment

The friction lever units installed 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.

Adjustment is made by means of the socket head screws on either side of the lever assembly.

Using a 4mm (5/32") hexagon key, turn the adjusting screw approximately 1/8th of a turn in a clockwise direction to increase the positioning force. This is most easily carried out in the fully open or closed positions.

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

[Please Turn Over](#)

LEWMAR

Ocean Portlight and Fixedlight Fitting Instructions

(To be retained in owners manual for future reference)

Lewmar Ocean Portlights and Fixedlights are for use on all craft types in accordance with **ISO/DIS 12216.2(E), DESIGN CAT. "A", AREAS I, II, III and IV**. Modification of the product will invalidate the compliance with this standard.

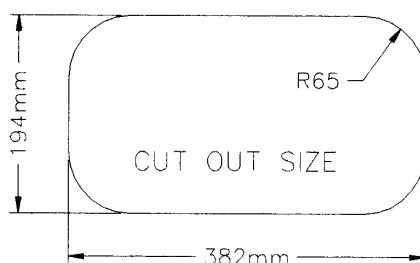
Fitting Instructions

Lewmar Portlight and Fixedlights should be fitted to a flat surface with a maximum tolerance of +/-1mm extending 20mm beyond the planned cutout and a deck / hull thickness of 12-36mm. Hold the inner frame on the inside of the intended position, ensure that a flat bearing area exists over the surface of the inner frame, leaving sufficient clearance for the trim to be fitted, (see sketch of typical cross section).

With a pencil mark out the cutout to the recommended dimensions shown.

The lower edge of product fitted in the hull AREA I should be a minimum of 600mm above the floatation plane in the crafts fully loaded ready-for-use condition, the boat being at rest in the upright condition.

Where craft intended to be operated on 'OCEAN' or 'OFFSHORE' voyages (as defined by ISO/DIS 12216.2(E)), no part of the plate or its framing is to extend beyond the outer surface of the hull or of a built-in-fairing being an integral part of the hull.



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

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

Cut out deck along 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 product. Openings cut in metal decks should have all burrs and sharp edges removed.

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

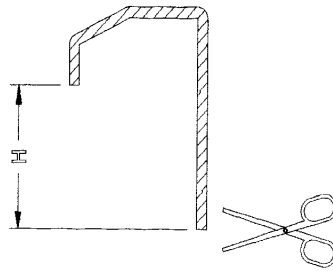
Measure thickness of skin (and inner trim if fitted).

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

Position the outer frame unit, and with the inner frame joint on the lower edge, bolt firmly in place, working from the centre out to the ends up to a maximum torque of 2.8Nm (25 in.lb). Clean off surplus sealant.

Caution:

M5 screws supplied are for skin thickness 12-16mm. It is important that you use the correct length of screw otherwise you will damage the product. Check skin thickness and select correct length of screw from table.



Trim cross section

Adjust the trim moulding to the required length H by cutting the inner edge only to suit, using a fine toothed saw or tin snips, such that when fitted the trim fixes to the dual lock pads. Snap the trim moulding into final position making sure that it picks up with the dual lock pads and is fully home all around its perimeter. It is a simple matter to remove the trim by prising it away on the outside edge, refit by snapping back onto the dual lock pads. On craft with considerable curvature or difficult inner trim, it may be necessary to use more dual lock pads which are available as a spares kit.

For portlight installations, check for correct operation of the window, closing / locking operation, even pressure on the seal etc. Don't forget to leave the flyscreen on board.

Dimension T	Screw	Order No.
12 – 16mm	use M5x16	19899100
17 – 20mm	use M5x20	19899200
21 – 25mm	use M5x25	19899300
26 – 30mm	use M5x30	19899400
31 – 35mm	use M5x30	19899500
36 – 38mm	use M5x30	19899600

Alternative screw length table

User Notes

Flyscreens, when fitted are snapped into position on the outer frame, enabling the portlight to be closed with the flyscreen in place.

Always wash the Portlight or Fixedlight with soap, water and a soft cloth.

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

A deadlight is available for this product, catalogue number 360053919. Store the deadlight in an easily accessible position close to the portlight. Check the fitting of the deadlight regularly.

Please Turn Over

LEWMAR

Ocean Hatch Fitting & Adjustment Instructions

(To be retained in owners manual for future reference)

Ocean hatches are for use on all craft types 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 the standard.

Fitting Instructions

Ocean hatches should be fitted to a flat surface with a maximum tolerance of +/- 1mm and a deck / hull thickness of 25-70mm (flanged version only). Check that all fastenings 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 inside edge of the lower frame. For hatches with a lower frame flange, increase the aperture size by 3mm all around.

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

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

Cut out deck along 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.

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 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 securing screws.

Position lower frame over hole and drill two fixing screw holes in opposite corners. Insert appropriate stainless steel fasteners.(see below).

Deck type

Wood	M5 through bolts or marine grade wood screws.
GRP/Steel/Al Alloy	M5 through bolts or machine screws into suitable tapped plates.
Fixing Sizes	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.

Through bolts should be used where fixings pass through lower hinges (M6 or 1/4" only).

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

Please Turn Over

User Notes

Small "vent" hatches are restricted to 90 degree opening and should not be forced beyond their "stop" position, as damage to the lever mechanism may occur. Larger hatches are not self supporting beyond the vertical position and will fall fully open if unrestrained.

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.

Backing plates are available separately to offer a quick solution to through bolting the hinge units neatly.

<u>Catalogue No.</u>	<u>Thread Size</u>
3669913999	M6
3669914999	1/4" UNC

Friction lever adjustment

The friction lever units installed on Ocean hatches 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.

Adjustment is made by means of the socket head screws on either side of the lever assembly.

Using a 4mm (5/32") hexagon key, turn the adjusting screw approximately 1/8th of a turn in a clockwise direction to increase the positioning force. This is most easily carried out in the fully open or closed positions.

***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.

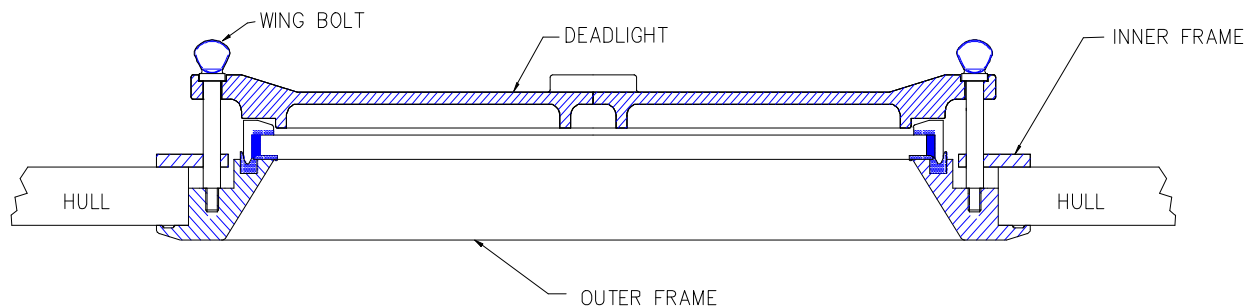
Lubricants should not be used on the friction lever assemblies as this will adversely affect the function of the units.

[Please Turn Over](#)

FITTING INSTRUCTIONS FOR DEADLIGHT ASSEMBLY **360053919**

- 1) If the portlight has been fitted with a trim moulding, remove it by prising it off the dual lock pads. This will expose the inner frame of the portlight.
- 2) With the portlight window in the closed position, offer the deadlight up so that the machined rebates correspond with the handles positions. Slide the deadlight behind the handles so that it covers the window area. You will notice that the holes in the deadlight lugs correspond with clearance holes in the inner frame, these in turn are aligned with tapped bosses in the outer frame of the portlight.
- 3) remove the securing wingbolts from their plastic clips on the deadlight and secure in position by passing them through the clearance holes of the deadlight and inner frame and screwing into the tapped bosses on the outer frame.

NOTE - The securing bolts should only be screwed in finger tight.



SECTION ON CENTER LINE OF PORTLIGHT SHOWING ATTACHMENT OF DEADLIGHT

OPERATING RECOMMENDATIONS FOR 360053919 DEADLIGHT ASSEMBLY

- 1) The hull mounted Ocean Portlight should have its deadlight fitted whilst underway or in heavy conditions.
- 2) It should be stowed within reach of the fitted portlight wherever fitted.

LEWMAR

Atlantic Portlight and Fixedlight Fitting Instructions

(To be retained in owners manual for future reference)

Lewmar Atlantic Portlights and Fixedlights are for use on all types of craft in accordance with the following standard:

ISO/DIS 12216.2(E), DESIGN CAT. "A", AREAS I, II, III and IV....Portlights sizes 10,30 & 32 and all Fixedlights.

ISO/DIS 12216.2(E), DESIGN CAT. "A", AREAS II, III and IV.....All other sizes of Portlight.

Modification of the product will invalidate the compliance with the standard.

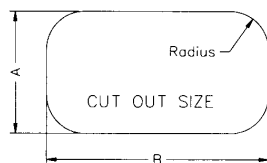
Fitting Instructions

Lewmar Portlight and Fixedlights should be fitted to a flat surface with a maximum tolerance of +/-1mm extending 12mm beyond the planned cutout and a deck / hull thickness of 8-24mm (portlight) or 8-35mm (fixedlight). Hold the inner frame on the inside of the intended position, ensure that a flat bearing area exists over the surface of the inner frame.

With a pencil mark out the cutout to the recommended dimension shown.

The lower edge of product fitted in the hull AREA I should be a minimum of 600mm above the floatation plane in the crafts fully loaded ready-for-use condition, the boat being at rest in the upright condition.

Where craft intended to be operated on 'OCEAN' or 'OFFSHORE' voyages (as defined by ISO/DIS 12216.2(E)), no part of the plate or its framing is to extend beyond the outer surface of the hull or of a built-in-fairing being an integral part of the hull.



Size No.	Dim A		Dim B		Radius	
	mm	ins	mm	ins	mm	ins
10	154	6 ¹ / ₈	284	11 ³ / ₈	61	2 ³ / ₈
30	180	7 ¹ / ₈	380	14 ¹ / ₈	61	2 ³ / ₈
32	180	7 ¹ / ₈	380	14 ¹ / ₈	90	3 ¹ / ₂
40	180	7 ¹ / ₈	460	18 ¹ / ₈	61	2 ³ / ₈
52	221	8 ¹ / ₈	539	21 ¹ / ₄	61	2 ³ / ₈
60	180	7 ¹ / ₈	580	22 ¹ / ₈	61	2 ³ / ₈
64	180	7 ¹ / ₈	630	24 ¹ / ₈	61	2 ³ / ₈

It is essential that the outer frame is placed squarely on the opening.

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

Cut out deck along 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 product. Openings cut in metal decks should have all burrs and sharp edges removed.

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

Measure thickness of skin (and inner trim if fitted).

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

Position the outer frame unit, and with the inner frame joint on the lower edge, bolt firmly in place, working from the centre out to the ends up to a maximum torque of 2.8Nm (25 in.lb). Clean off surplus sealant.

Caution:

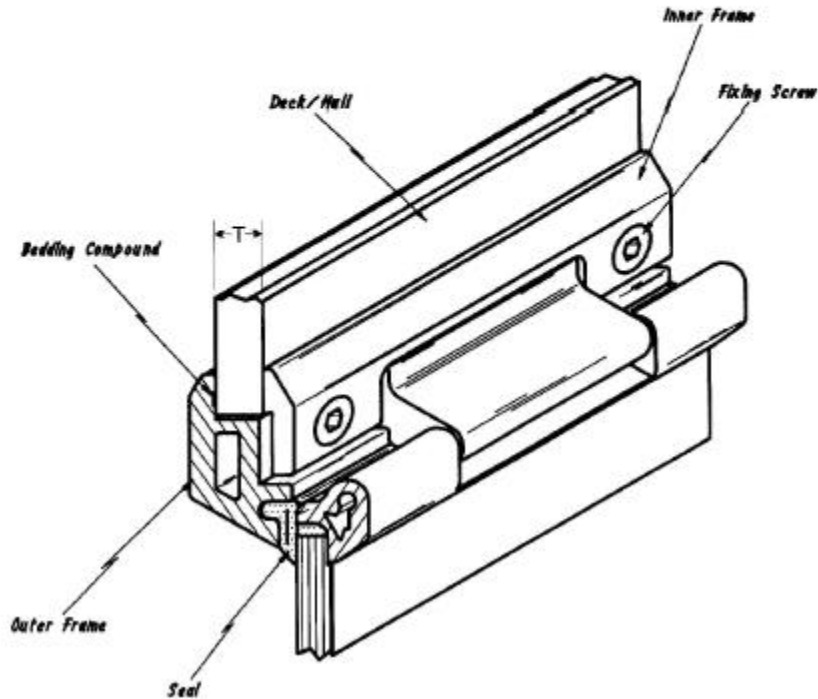
M5 screws supplied are for skin thickness 8-10mm. It is important that you use the correct length of screw otherwise you will damage the product. Check skin thickness and select correct length of screw from table.

Dimension T	Screw	Order No.
8 – 10mm	use M5x16	360360999
11 – 15mm	use M5x20	360361999
16 – 19mm	use M5x25	360362999
20 – 24mm	use M5x30	360363999

Alternative screw length table

Please Turn Over

For portlight installations, check for correct operation of the window, closing / locking operation, even pressure on the seal etc. Don't forget to leave the flyscreen on board.



Typical installation cross section

Portlight shown

User Notes

Flyscreens, when fitted are located between the outer frame and seal, enabling the portlight to be closed with the flyscreen in place. See the separate sheet for detailed instructions.

If a deadlight is required, we suggest that a plywood, aluminium or fibreglass plate be made to cover the portlight (notched to clear the hinges and handles on opening versions). The portlight trim moulding can then be removed allowing the inner frame to be drilled and tapped to facilitate bolting the deadlight in position.

Always wash the Portlight or Fixedlight with soap, water and a soft cloth.

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

Please Turn Over

LEWMAR
Concept Hatch Fitting & Adjustment Instructions

(To be retained in owners manual for future reference)

Concept hatches are for use on power craft in accordance with **ISO/DIS 12216.2(E), DESIGN CAT "A", AREAS II**. Modification of the hatch by the fitting of vents etc. will invalidate the compliance with this standard.

Fitting Instructions

Concept hatches should be fitted to a flat surface with a maximum tolerance of +/- 1mm and a deck / hull thickness of 20-40mm. Check that all fastening will be clear of deck moulding radii etc. Allow clearance for lid opening.

Mark the deck with a pencil around the outside edge of the frame flange.
It is essential that the frame is a snug fit and placed squarely on the deck opening.
When fitting a number of hatches it is advisable to prepare a template.

Cut out deck along 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.
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 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 securing screws.

Position lower frame over hole and drill two fixing screw holes in opposite corners. Insert appropriate stainless steel fasteners.(see below).

Deck type

Wood

M5 through bolts or marine grade wood screws.

GRP/Steel/Al Alloy

M5 through bolts or machine screws into suitable tapped plates.

Fixing Sizes

M5, 10UNC, 2BA, 3/16", Wood screws (min. length 40mm).

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, ie. closing/locking, even pressure of seal etc.

User Notes

Concept hatches are restricted to 85 degree opening and should not be forced beyond their "stop" position, as damage to the linkage mechanism may occur.

Do not attempt to force the hatch closed or open when levers are locked as damage to the linkage mechanism will occur.

If the hatch is accidentally closed with the levers in the closed position, the shear pin between the small straight lever and the moulding will fail. The hatch can still be opened and closed but no positioning is possible. Remove the broken parts and replace to rectify.

To adjust the lid opening position, support the lid whilst moving the locking levers to the unlocked position. Position the lid, ensuring that the mechanism is correctly aligned when re-locking the levers. This can be readily felt by moving the lid slightly.

Locking levers should remain in the unlocked position when the hatch is closed to prevent accidental damage when opening.

The ventilation position is used by closing the handles into the rebate in the lower frame. Care should be taken not to stand on or load the hatch lid in this position, as damage could occur to the handle or window assembly.

Do not lock the levers in the ventilation position.

The hatch must always be closed when the boat is in motion to prevent accidental damage.

Where used, the flyscreen is fitted by using the sewn on tabs to stretch it across the corners of the trim. Ensure that the elasticated bead is correctly located into the frame lip.

No adjustment to the hinge mechanism should be necessary during normal usage, however, if the operation of the locking levers becomes excessively stiff, the centre screw may be adjusted taking care to remove all free play.

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 linkage and lid pinch zones while operating and adjusting the hatch.

LEWMAR®

Concept Circular Hatch Fitting & Adjustment Instructions

(To be retained in owners manual for future reference)

Concept circular hatches are for use on power craft 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

Concept circular hatches should be fitted to a flat surface with a maximum tolerance of +/- 1mm and a deck / hull thickness of 20-40mm. Check that all fastenings will be clear of deck moulding radii etc. Allow clearance for lid opening.

Mark the deck with a pencil around the outside edge of the frame flange.
It is essential that the frame is a snug fit with the deck opening.
When fitting a number of hatches it is advisable to prepare a template.

Cut out deck along 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.
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 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 securing screws.

Position lower frame over hole and drill all holes and fasten down with the appropriate stainless steel fasteners (see below). Start with those nearest the hinge, taking care not to damage the acrylic.

Deck type

Wood

GRP/Steel/Al Alloy

Fixing Sizes

M5 through bolts or marine grade wood screws.

M5 through bolts or machine screws into suitable tapped plates.

M5, 10UNC, 2BA, 3/16", Wood screws (min. length 40mm).

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

User Notes

Concept circular hatches are restricted to 85 degree opening and should not be forced beyond their "stop" position, as damage to the lever mechanism may occur.

The ventilation position is used by closing the handles into the rebate in the lower frame. Care should be taken not to stand on or load the hatch lid in this position, as damage could occur to the handle or window assembly.

The hatch must always be closed when the boat is in motion to prevent accidental damage.

Where used, the flyscreen is fitted by using the sewn on tabs to stretch it across to the poppers on the trim frame. Ensure that the elasticated bead is correctly located into the frame lip.

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.

Friction lever adjustment

The friction lever units installed on Concept Circular hatches 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.

Adjustment is made by means of the socket head screws on either side of the lever assembly.

Using a 4mm (5/32") hexagon key, turn the adjusting screw approximately 1/8th of a turn in a clockwise direction to increase the positioning force. This is most easily carried out in the fully open or closed positions.

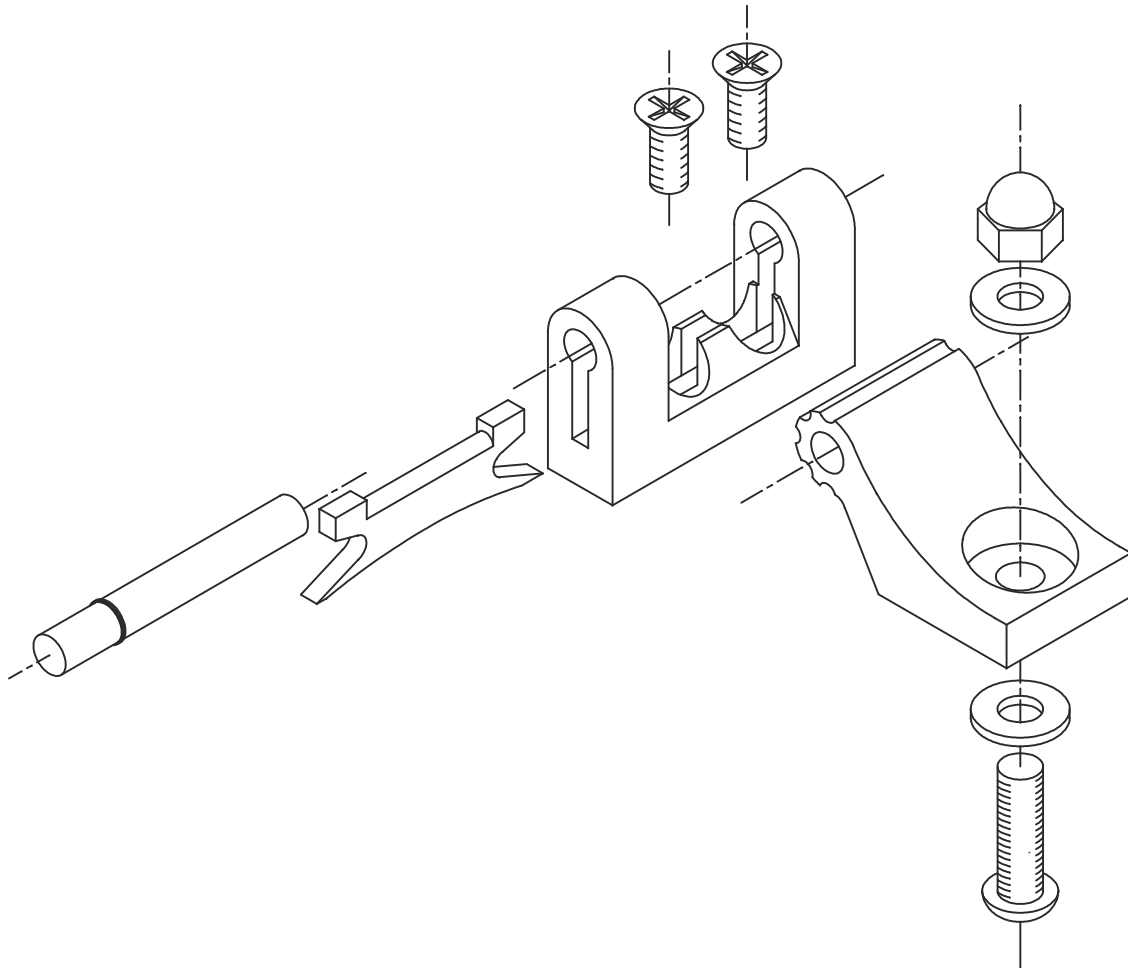
Do not over tighten the adjusting screws

Open the hatch and check for correct operation.

Re-adjust if necessary until the desired operation is achieved.

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

LEWMAR



KIT No.	36000199Z
---------	-----------

Z = 1 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

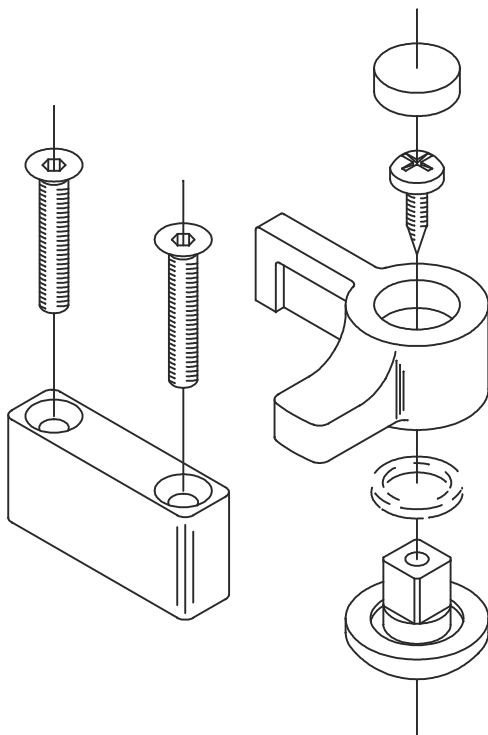
PORTLIGHT SPARE PARTS

HINGE KITS

ISSUE 1.1

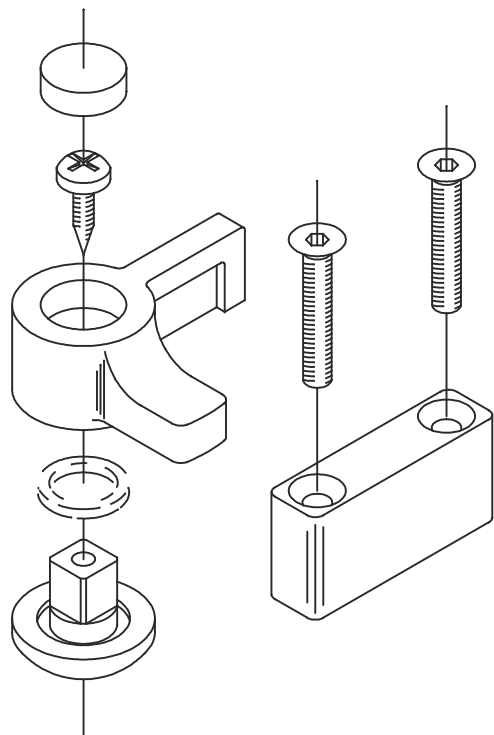
DATE 15.4.92

LEWMAR



KIT No.	36000399Z
---------	-----------

L.H. HANDLE KIT



KIT No.	36000299Z
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R.H. HANDLE KIT

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

PORTLIGHT SPARE PARTS

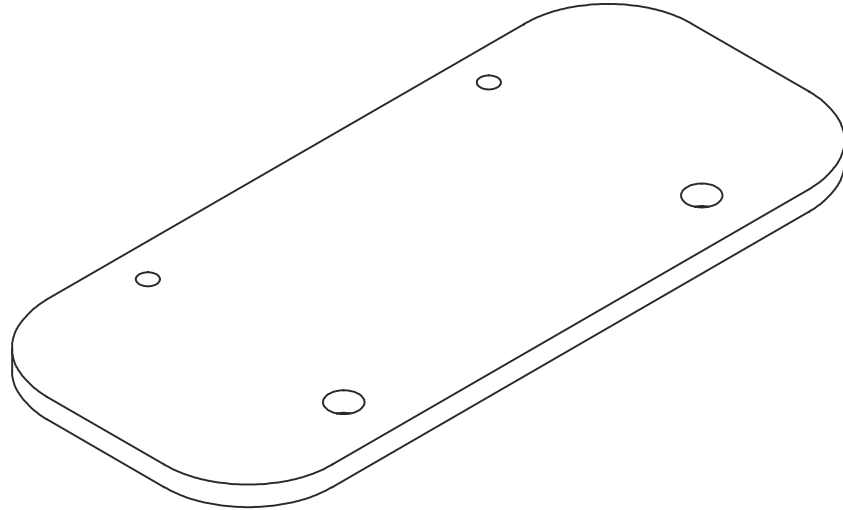
HANDLE KITS

ISSUE 1.2

DATE 31.7.96

LEWMAR

B5504-3



SPARES No.	SIZE
360015X99	0 (4x10)
360016X99	1 (5x12)
360017X99	2 (4x14)
360018X99	3 (5x15)
360019X99	4 (5x23)
360244X99	4R
360246X99	4L
360021X99	5 (7x15)
360020X99	6 (3x15)

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

PORTLIGHT SPARE PARTS

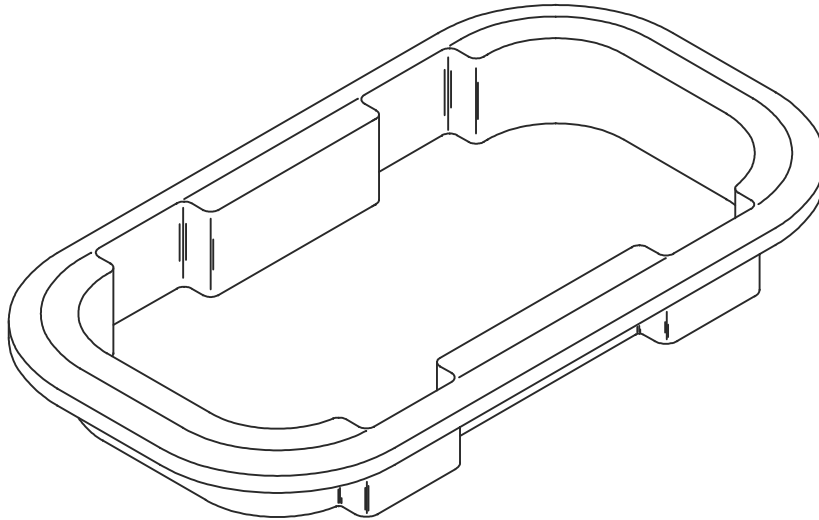
ACRYLICS

ISSUE 1.2

DATE 23-MAY-00

LEWMAR

B5505-3



SPARES No.	SIZE
368802W39	0 (4x10)
368812W39	1 (5x12)
368822W39	2 (4x14)
368832W39	3 (5x15)
368842W39	4 (5x23)
368844W39	4RH
368846W39	4LH
368852W39	5

ALL TRIMS COME WITH DUAL LOCK FOR HOLDING TRIMS IN PLACE

A KIT OF 8 DUAL LOCKS IS ALSO AVAILABLE ON P/N 19899900

W = 2 FOR WHITE AND 5 FOR IVORY

PORTLIGHT SPARE PARTS

TRIM MOULDINGS

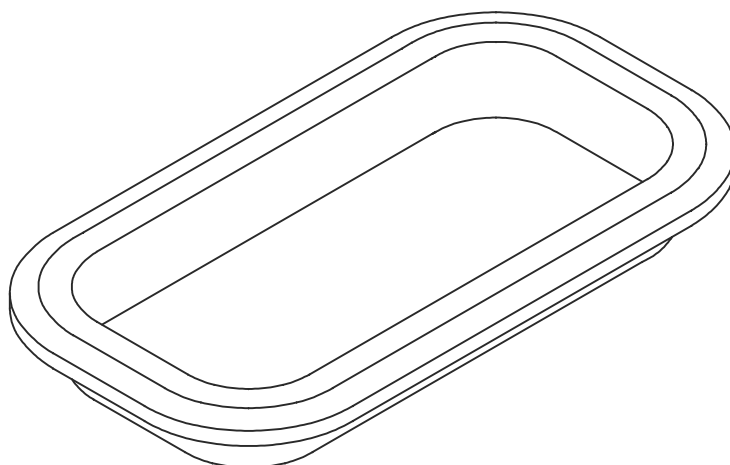
ISSUE

1.4

DATE

02-DEC-99

LEWMAR



SPARES No.	SIZE
368801W39	0 (4x10)
368811W39	1 (5x12)
368821W39	2 (4x14)
368831W39	3 (5x15)
368841W39	4 (5x23)
368843W39	4RH
368845W39	4LH

ALL TRIMS COME WITH DUAL LOCK FOR
HOLDING TRIMS IN PLACE

A KIT OF 8 DUAL LOCKS IS ALSO
AVAILABLE ON P/N 19899900

W = 2 FOR WHITE AND 5 FOR IVORY

FIXEDLIGHT SPARE PARTS

TRIM MOULDINGS

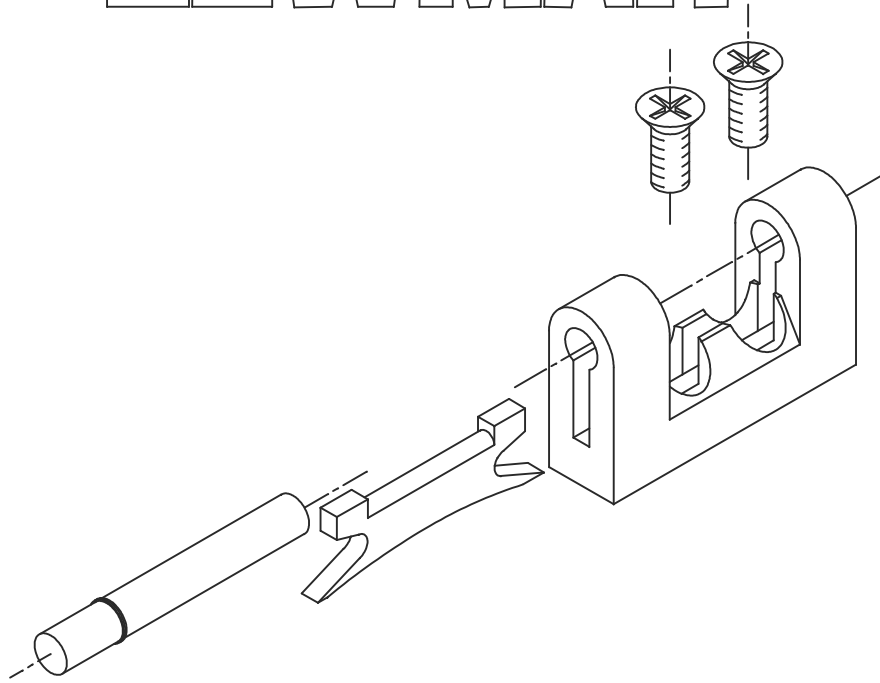
ISSUE

1.4

DATE

02-DEC-99

LEWMAR



KIT No.	36004099Z
---------	-----------

Z = 0 FOR STANDARD GREY

OCEAN PORTLIGHT SPARE PARTS

HINGE KITS

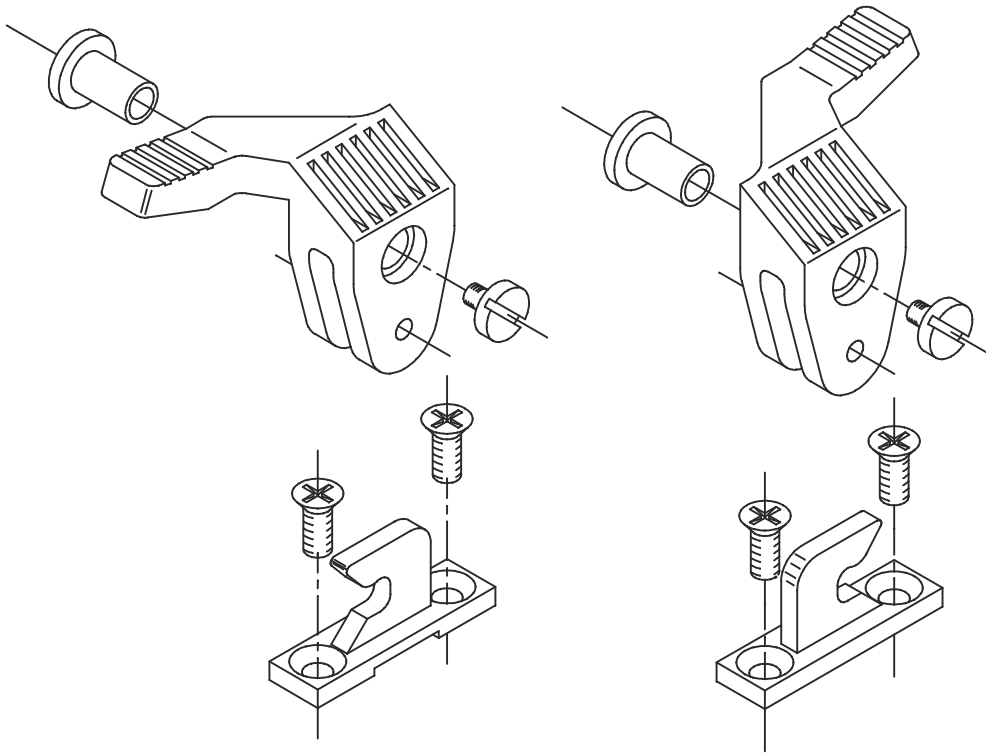
ISSUE

1.3

DATE

21.4.98

LEWMAR



KIT No.

36004199Z

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

OCEAN PORTLIGHT SPARE PARTS

HANDLE KITS

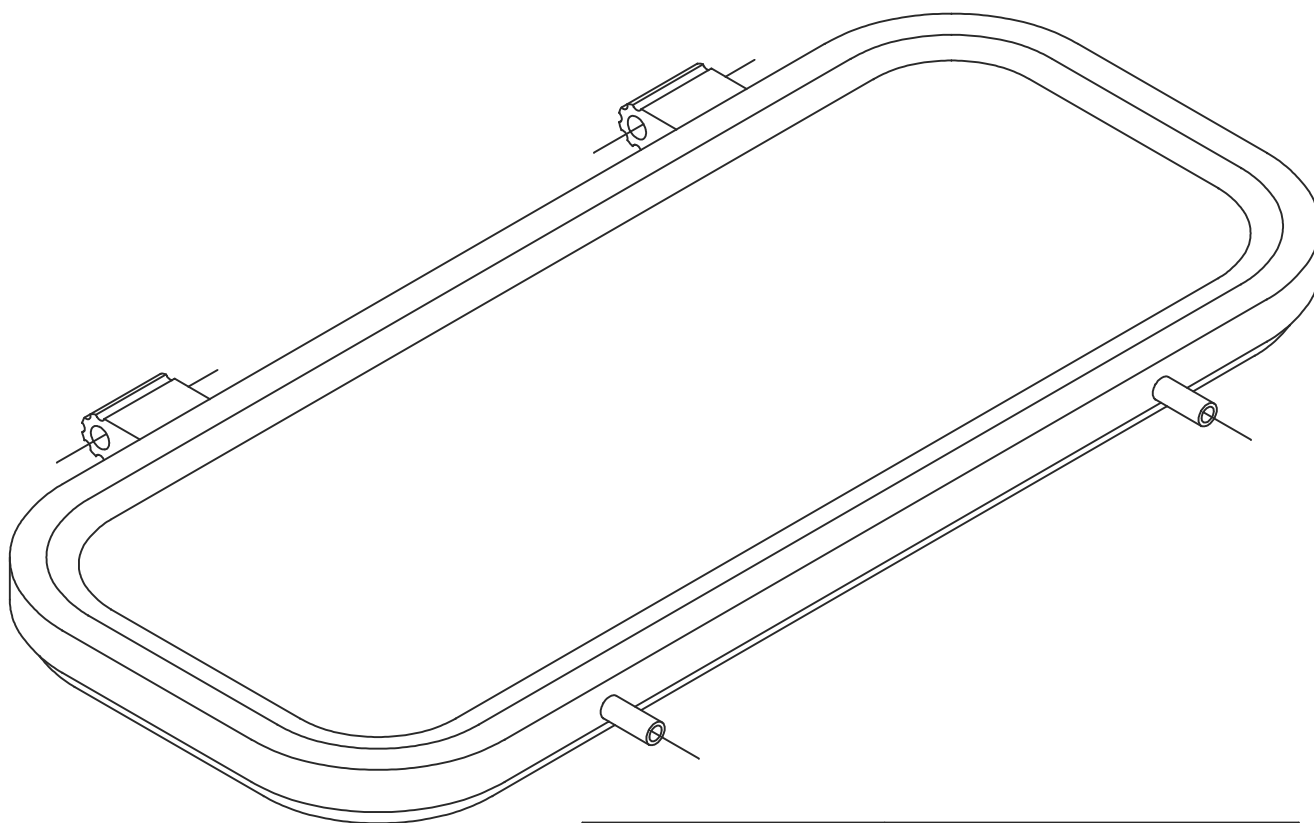
ISSUE

1.1

DATE

23.4.92

LEWMAR



KIT No.	360044XY9
---------	-----------

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

OCEAN PORTLIGHT SPARE PARTS

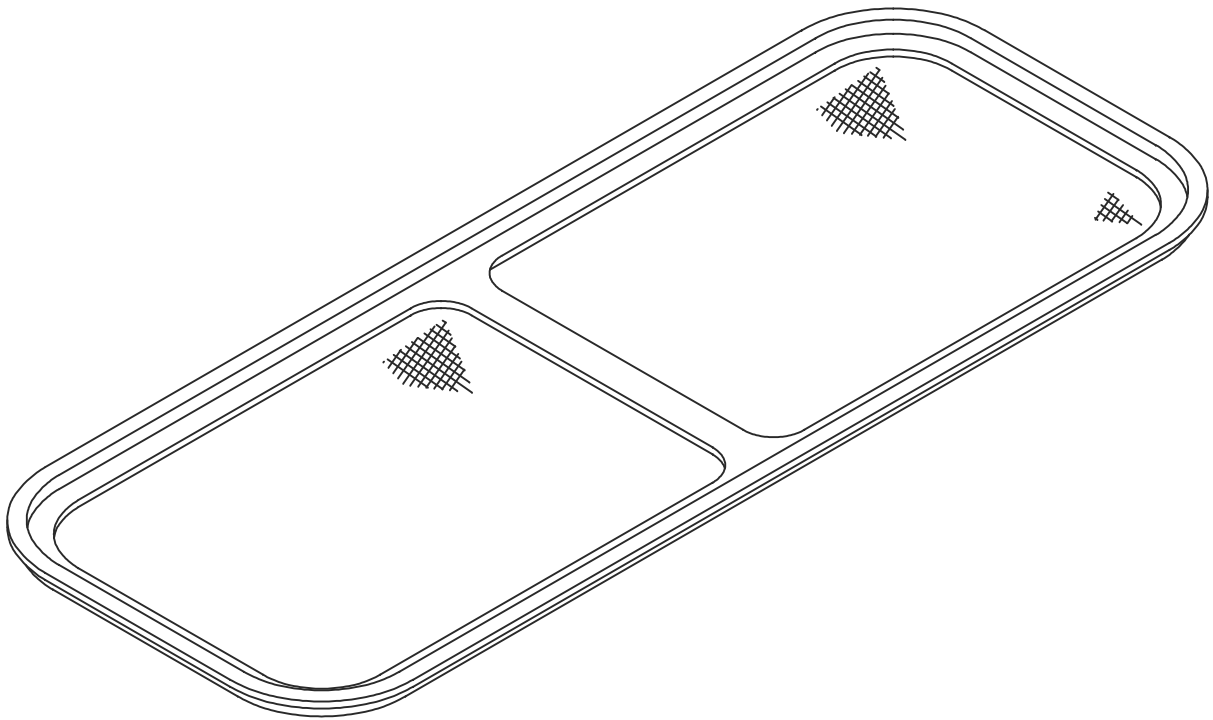
WINDOW

ISSUE 1.2

DATE 24-MAY-00

LEWMAR

B5510-1



SPARES No.	PORTLIGHT
360046999	SIZE 1 (5x12)

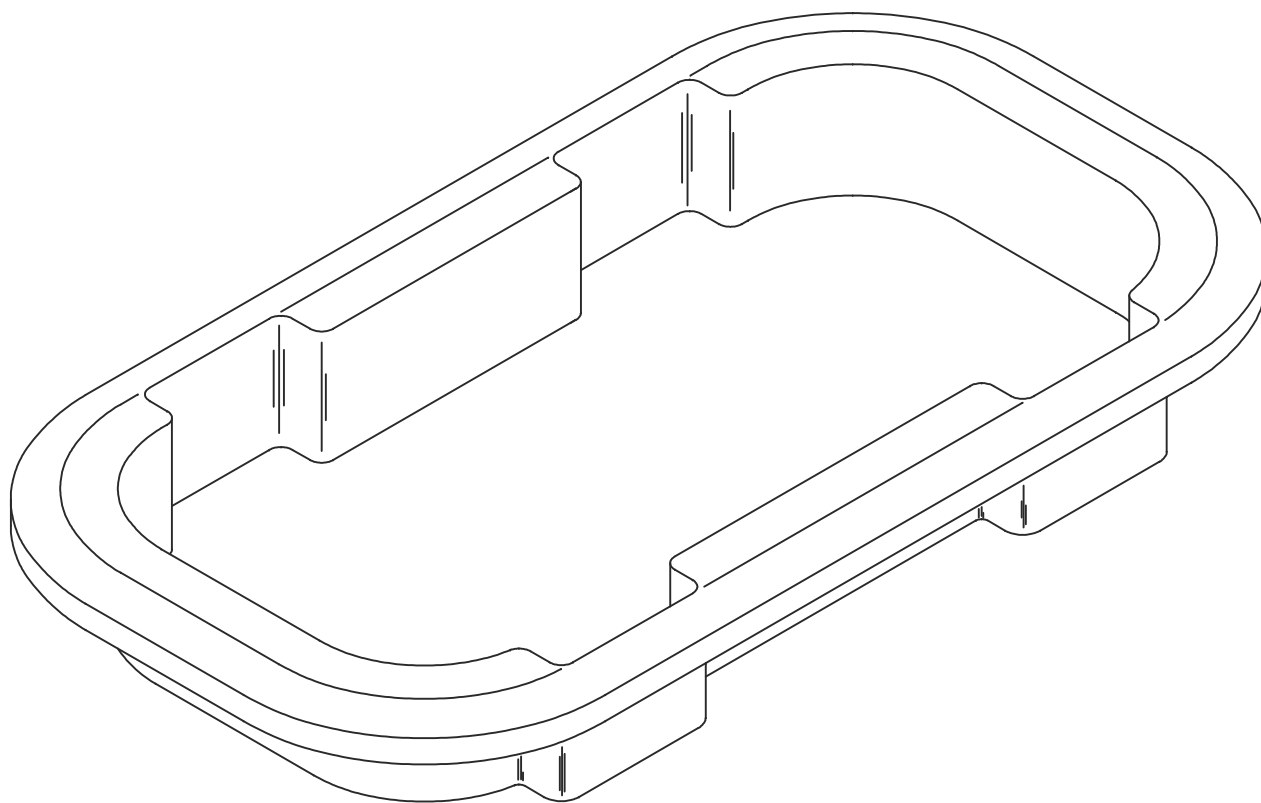
OCEAN PORTLIGHT SPARE PARTS

FLYSCREEN

ISSUE 1.1

DATE 28.4.92

LEWMAR



KIT No.	3600489W9
---------	-----------

W = 2 FOR WHITE AND 5 FOR IVORY

OCEAN PORTLIGHT SPARE PARTS

TRIM MOULDING

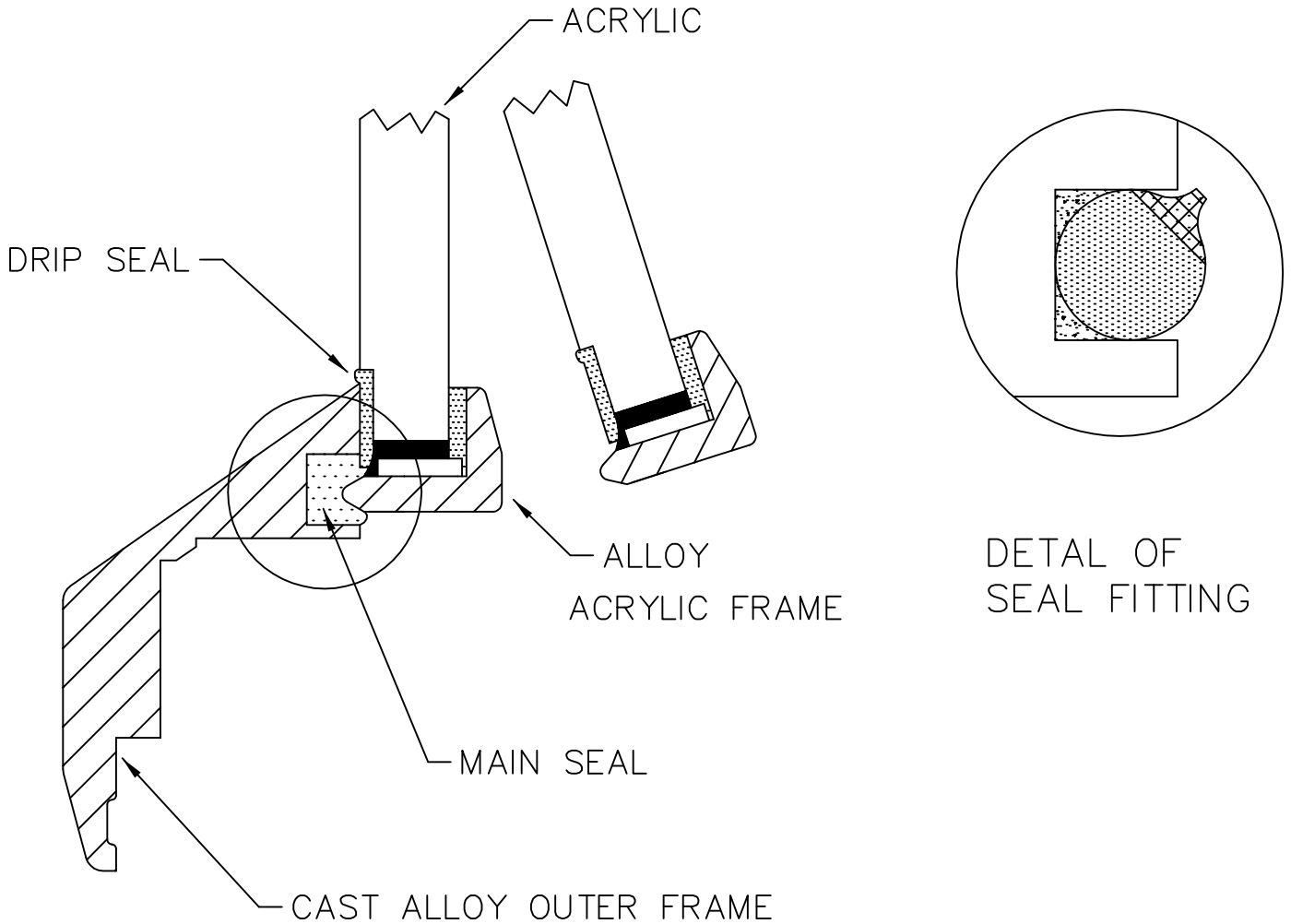
ISSUE

1.2

DATE

16.7.92

LEWMAR



SPARES No.
360050999

NOTE!

AFTER REMOVING THE OLD SEAL AND CLEANING SEAL GROOVE, THE NEW SEAL SHOULD BE FIXED IN PLACE USING A SMALL QUANTITY OF CLEAR SILICONE SEALANT.

OCEAN PORTLIGHT SPARE PARTS

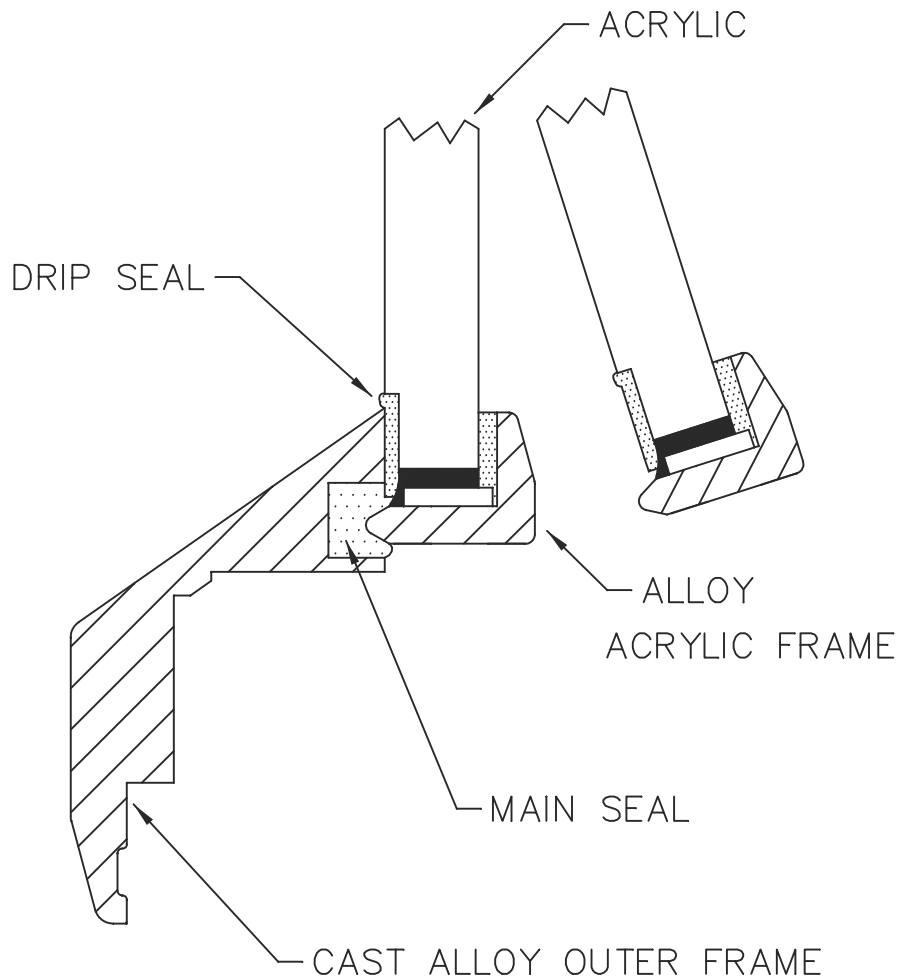
MAIN SEAL

ISSUE 1.3

DATE 05-SEP-02

LEWMAR

B5513-2



SPARES No.

360051999

NOTE!

AFTER REMOVING THE OLD SEAL ENSURE SURFACES ARE CLEAN BEFORE APPLYING THE NEW SELF ADHESIVE SEAL. TRIM TO LENGTH AFTER FITTING.

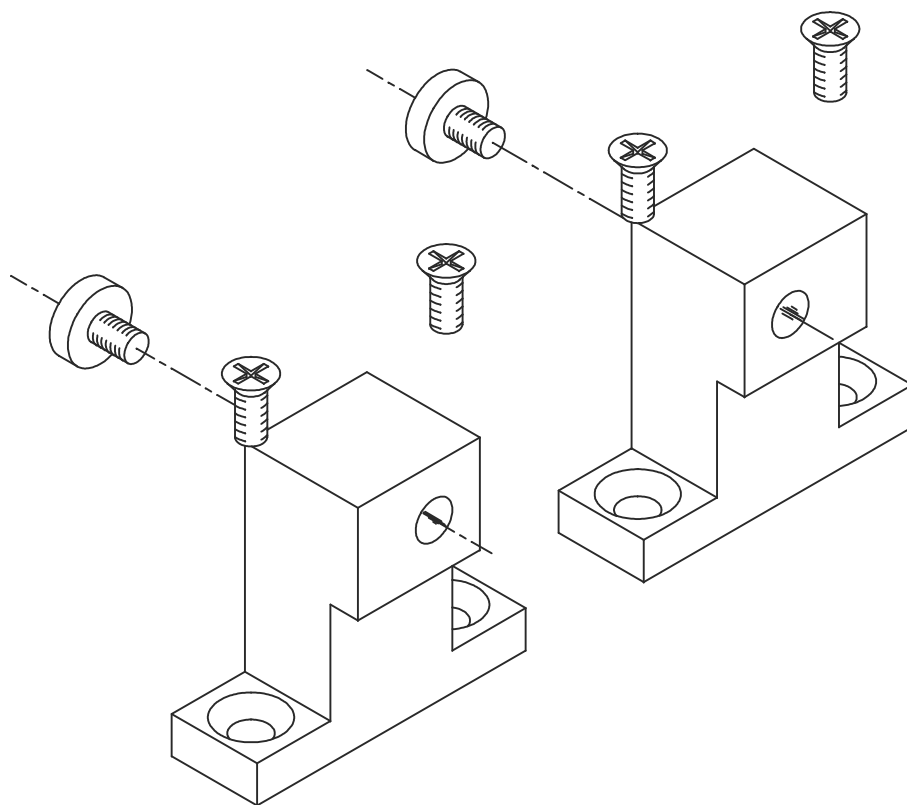
OCEAN PORTLIGHT SPARE PARTS

DRIP SEAL

ISSUE 1.2

DATE 24-MAY-00

LEWMAR



SPARES No.

360052990

OCEAN FIXEDLIGHT SPARE PARTS

FIXED BLOCK

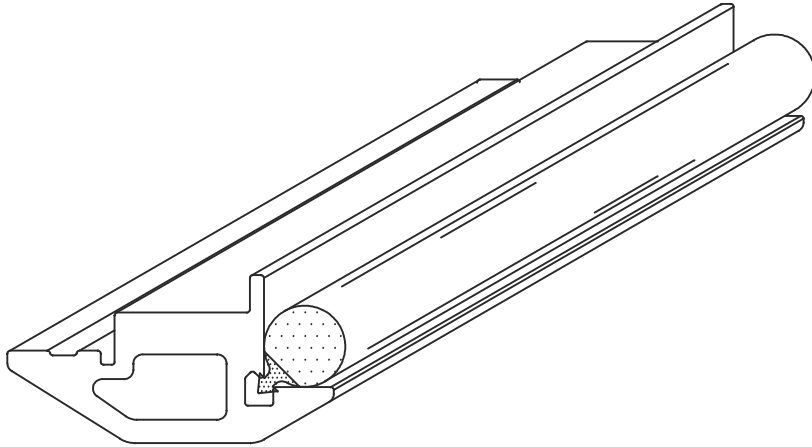
ISSUE

1.1

DATE

14.4.92

LEWMAR



KIT No.	PORTLIGHT SIZE
19898500	0
19898600	1
19898700	2
19898800	3
19898900	4
360032999	4L/R
360055999	5 (7x15)
360054999	6 (3x15)

PORTLIGHT SPARE PARTS

REPLACEMENT SEALS

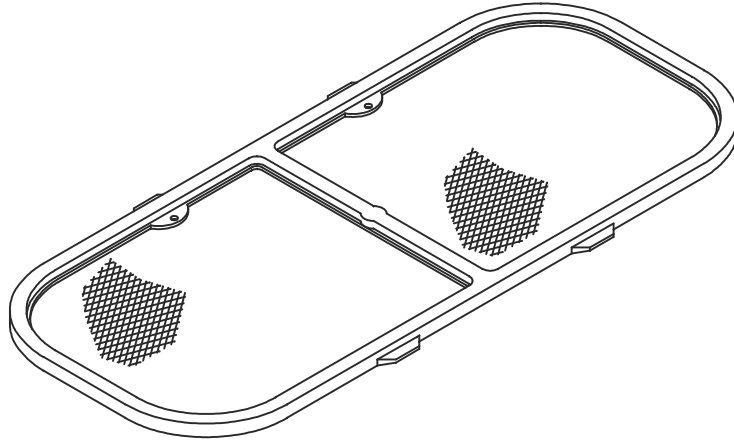
ISSUE

1.3

DATE

12.8.98

LEWMAR



KIT No.	PORTLIGHT
19898000	SIZE 0 (4 X 10)
19898100	SIZE 1 (5 X 12)
19898200	SIZE 2 (4 X 14)
19898300	SIZE 3 (5 X 15)
19898400	SIZE 4 (5 X 23)
367844916	SIZE 4R
367846916	SIZE 4L
367852916	SIZE 5 (7 X 15)
NONE	SIZE 6 (3 X 15)

THE NEW STANDARD PORTLIGHT FLYSCREENS WORK IN THE STANDARD PORTLIGHTS BUT THE FITTING IS MORE DIFFICULT

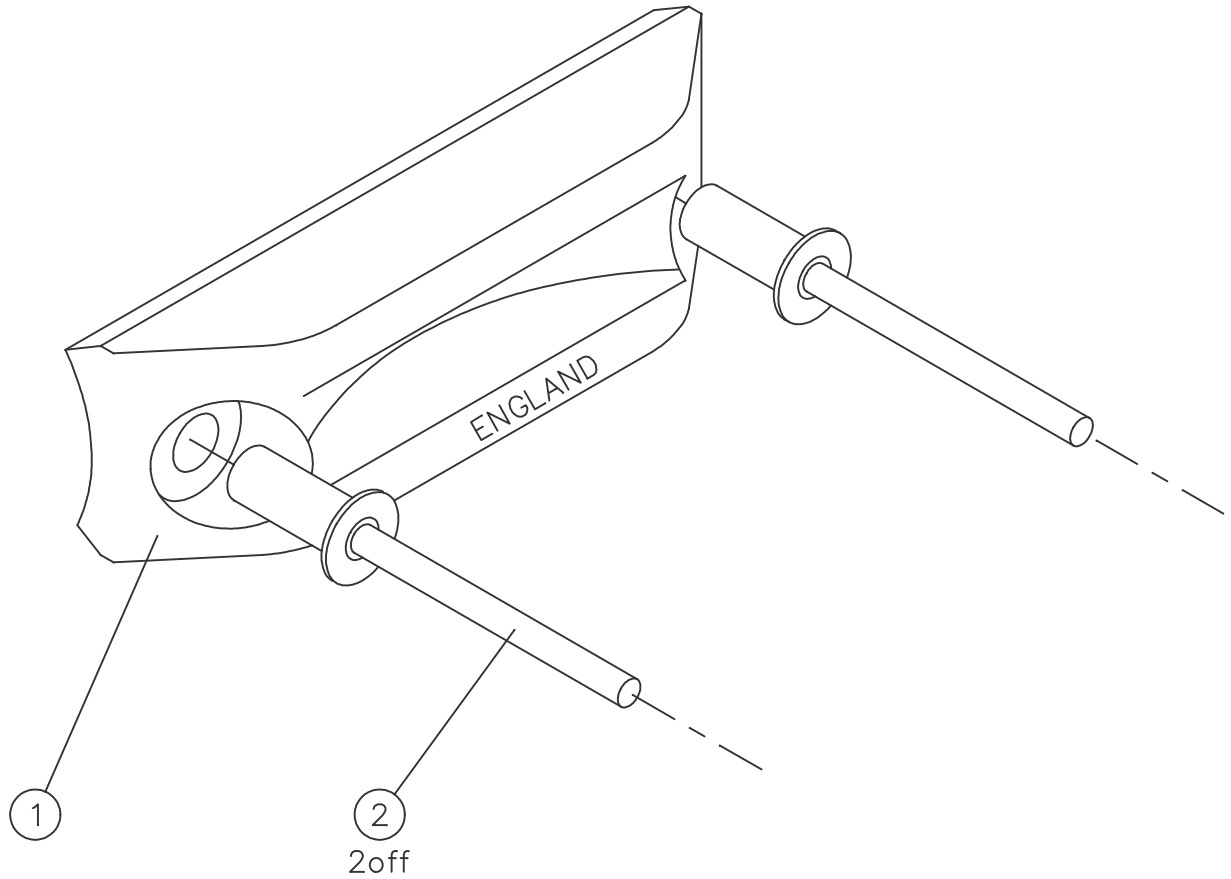
PORTLIGHT SPARE PARTS

FLYSCREEN

ISSUE 1

DATE 05-05-98

LEWMAR



KIT No.
36006099Z

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

HATCH SPARE PARTS

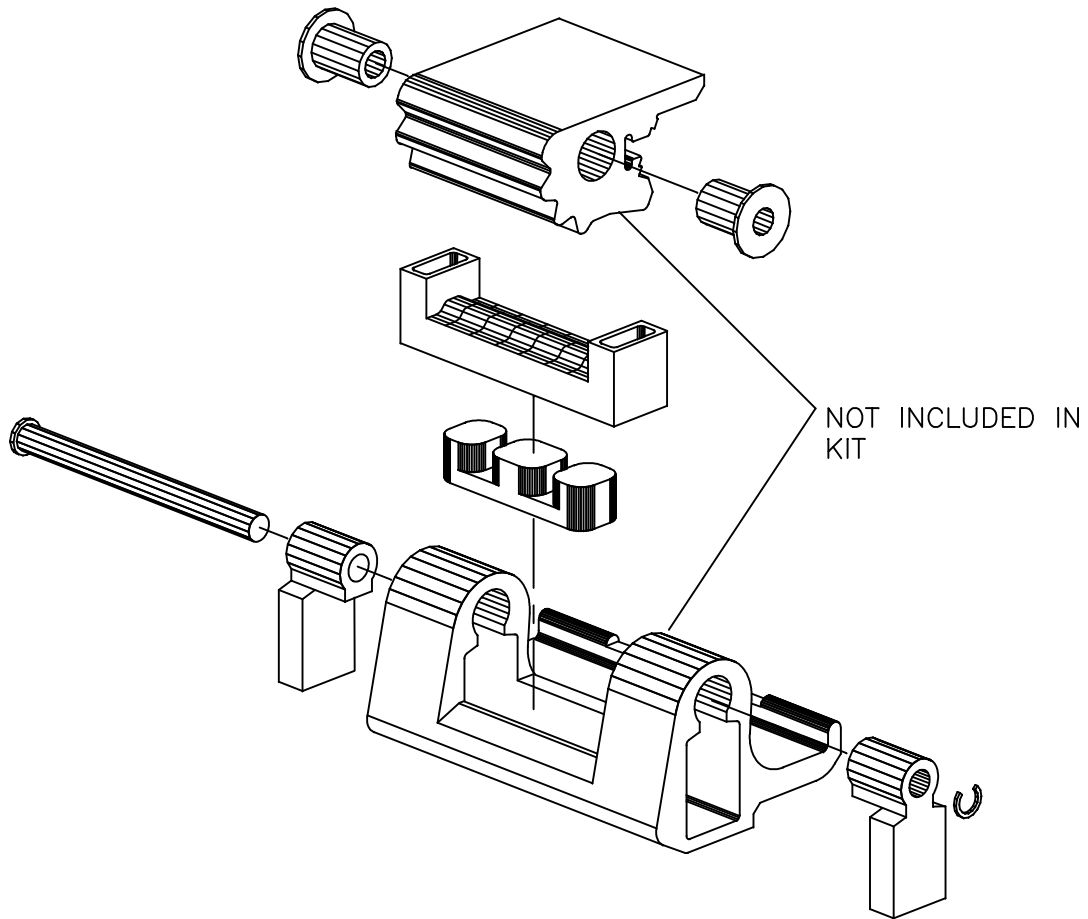
CATCH BLOCK

ISSUE 1.2

DATE 24-MAY-00

LEWMAR

B5521-3



HINGE KIT	HATCH SIZE
19784500	00
19784400	10 & 20
19784700	30 & 40
19782200	50 & 60
19782400	65
19782300	70

ROLLSTOP SPARE PARTS

HINGE KITS

ISSUE

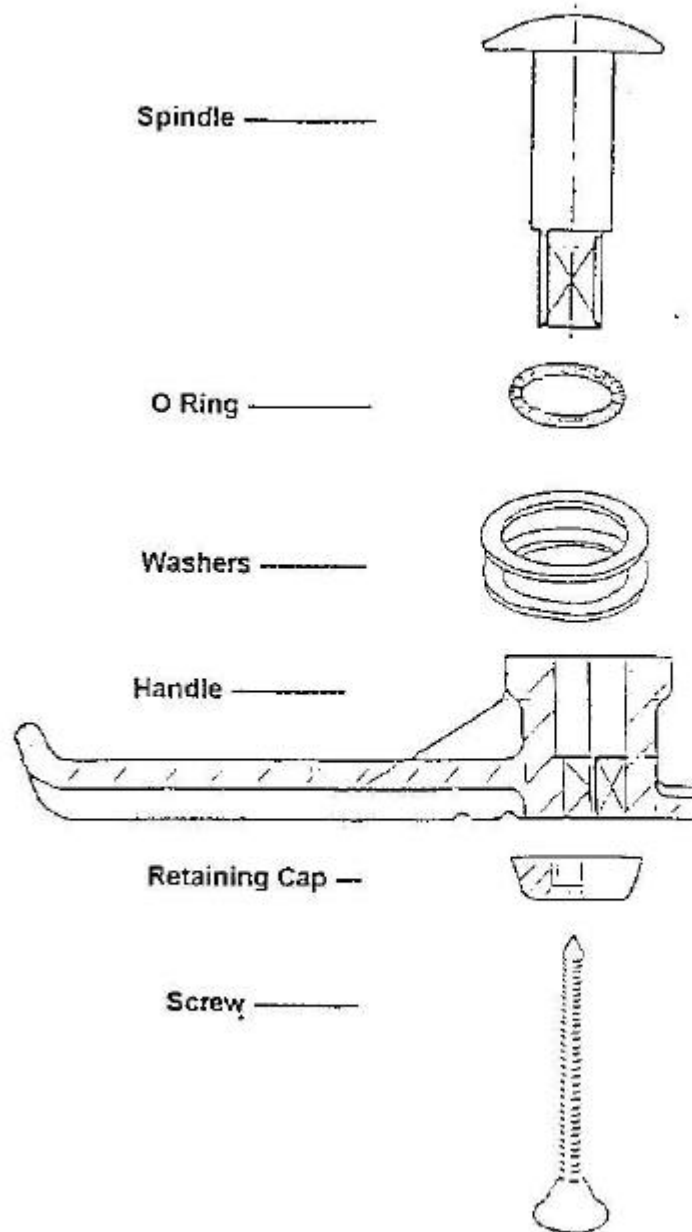
1.4

DATE

28-JUN-00

LEWMAR®

SUPERHATCH LEFT HANDLE KIT Part Number 360277991



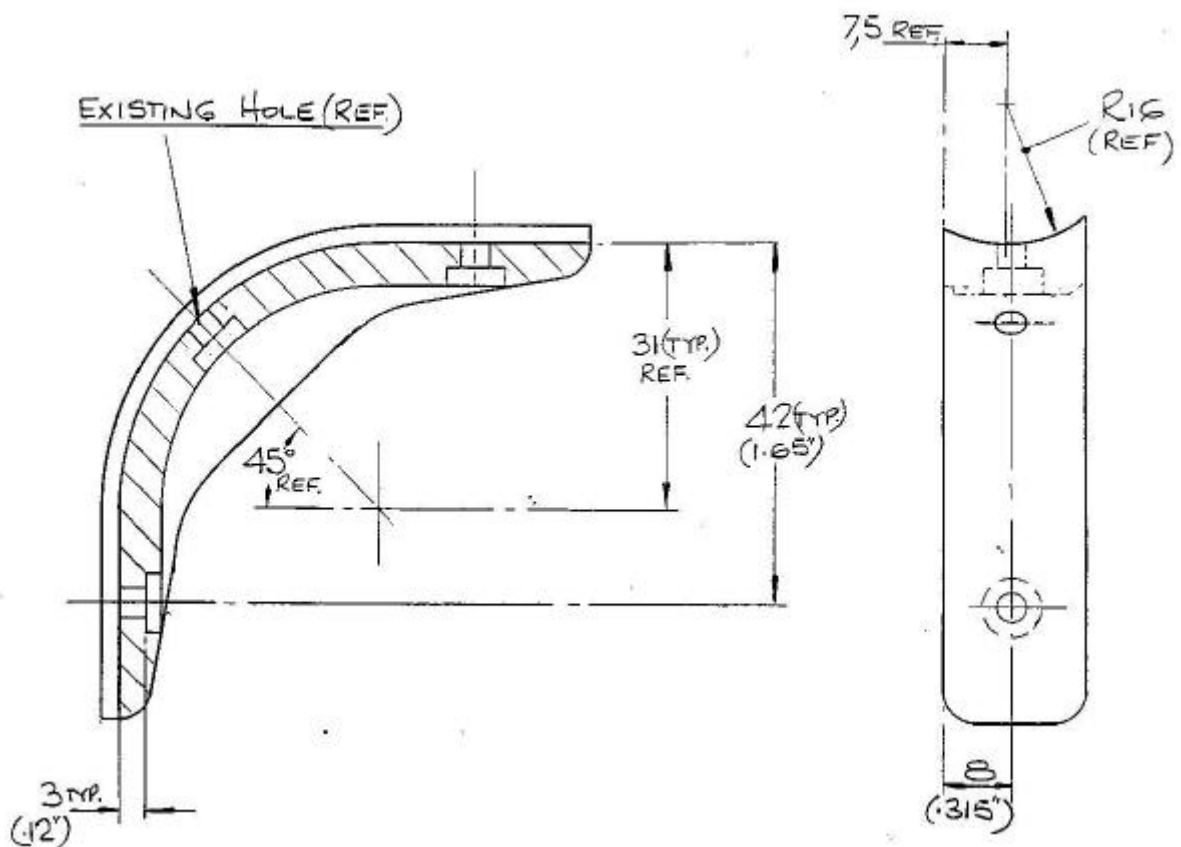
The left handle kit may also be used to replace the right handle, which is no longer available. When this is done the handles no longer mirror each other.

Production of Superhatches stopped in 1987 and only a limited range of spares is now available. If the hatch is damaged in the future it may be necessary to purchase a new hatch.

LEWMAR®

SUPERHATCH PLASTIC CORNER CATCH BLOCK

Part Number 360719999



Kit Contents:-

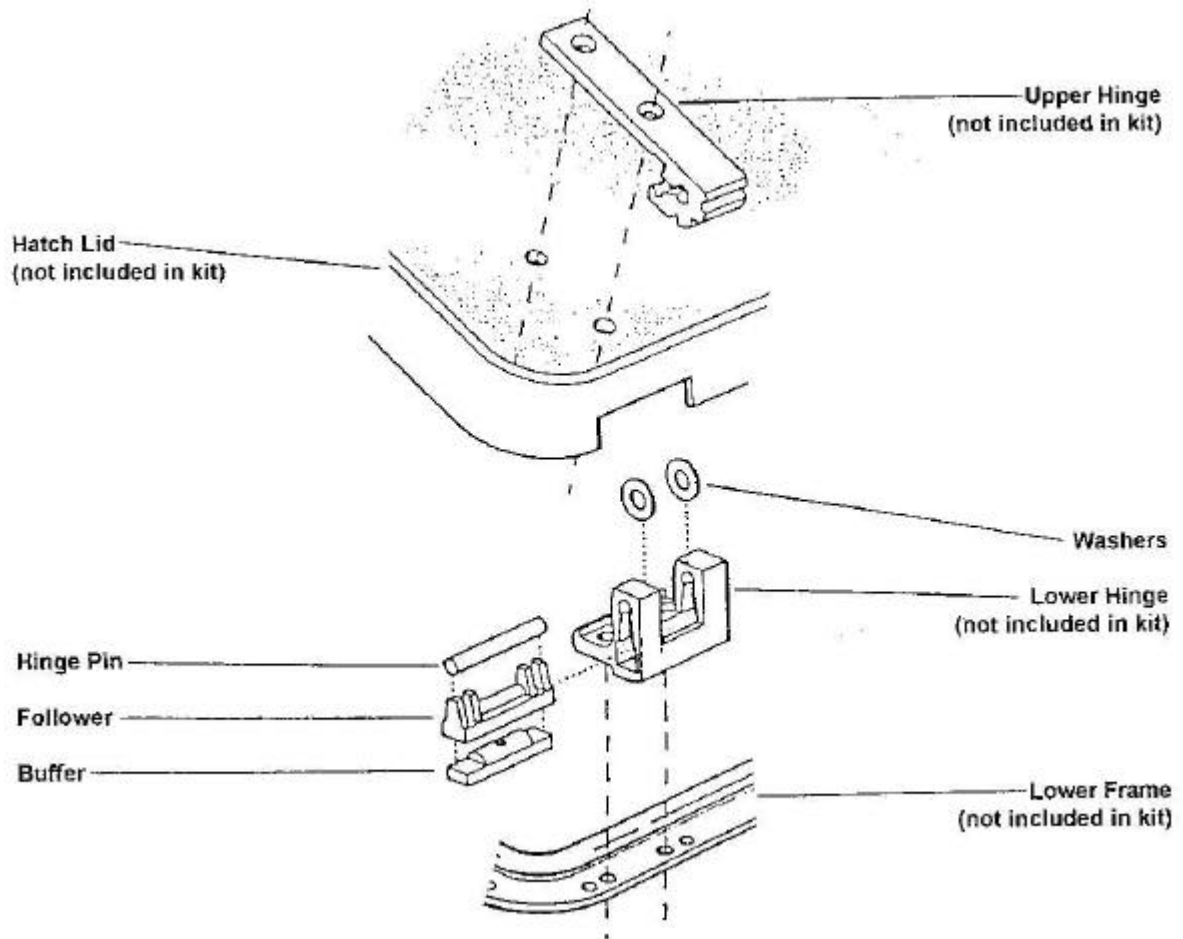
- 2 x Catch Blocks
- 4 x Rivets (not shown)

Larger Superhatches have a aluminium catch block available on p/n 15800179

Production of Superhatches stopped in 1987 and only a limited range of spares is now available. If the hatch is damaged in the future it may be necessary to purchase a new hatch.

LEWMAR®

SUPERHATCH HINGE KITS



Part Numbers:-

Size 1	(now size 30)	361002999 (2 hinges)
Size 2 & 5	(now size 50 & 40)	361003999 (2 hinges)
Size 3	(now size 60)	361004999 (2 hinges)
Size 4	(now size 70)	361005999 (3 hinges)

Kits contain replacement parts for all hinges on a hatch

Production of Superhatches stopped in 1987 and only a limited range of spares is now available. If the hatch is damaged in the future it may be necessary to purchase a new hatch.

LEWMAR®

SUPERHATCH SEAL KITS AND ACRYLIC/HINGE FASTENING

19781000	SH 0 PN 7810 SEAL KIT SPARE (Sz 20)
19781100	SH 1 PN 7811 SEAL KIT SPARE (Sz 30)
19781200	SH 2 PN 7812 SEAL KIT SPARE (Sz 50)
19781300	SH 3 PN 7813 SEAL KIT SPARE (Sz 60)
19781400	SH 4 PN 7814 SEAL KIT SPARE (Sz 70)
19781500	SH 5 PN 7815 SEAL KIT SPARE (Sz 40)
19781600	SH 6 PN 7816 SEAL KIT SPARE (Sz 6)
19781700	SH 7 PN 7817 SEAL KIT SPARE (Sz 10)
360265999	Acrylic/Upper Hinge Fastening (3 x Tappex Nut Insert & M6 x 20 Machine Screws)

Production of Superhatches stopped in 1987 and only a limited range of spares is now available. If the hatch is damaged in the future it may be necessary to purchase a new hatch.

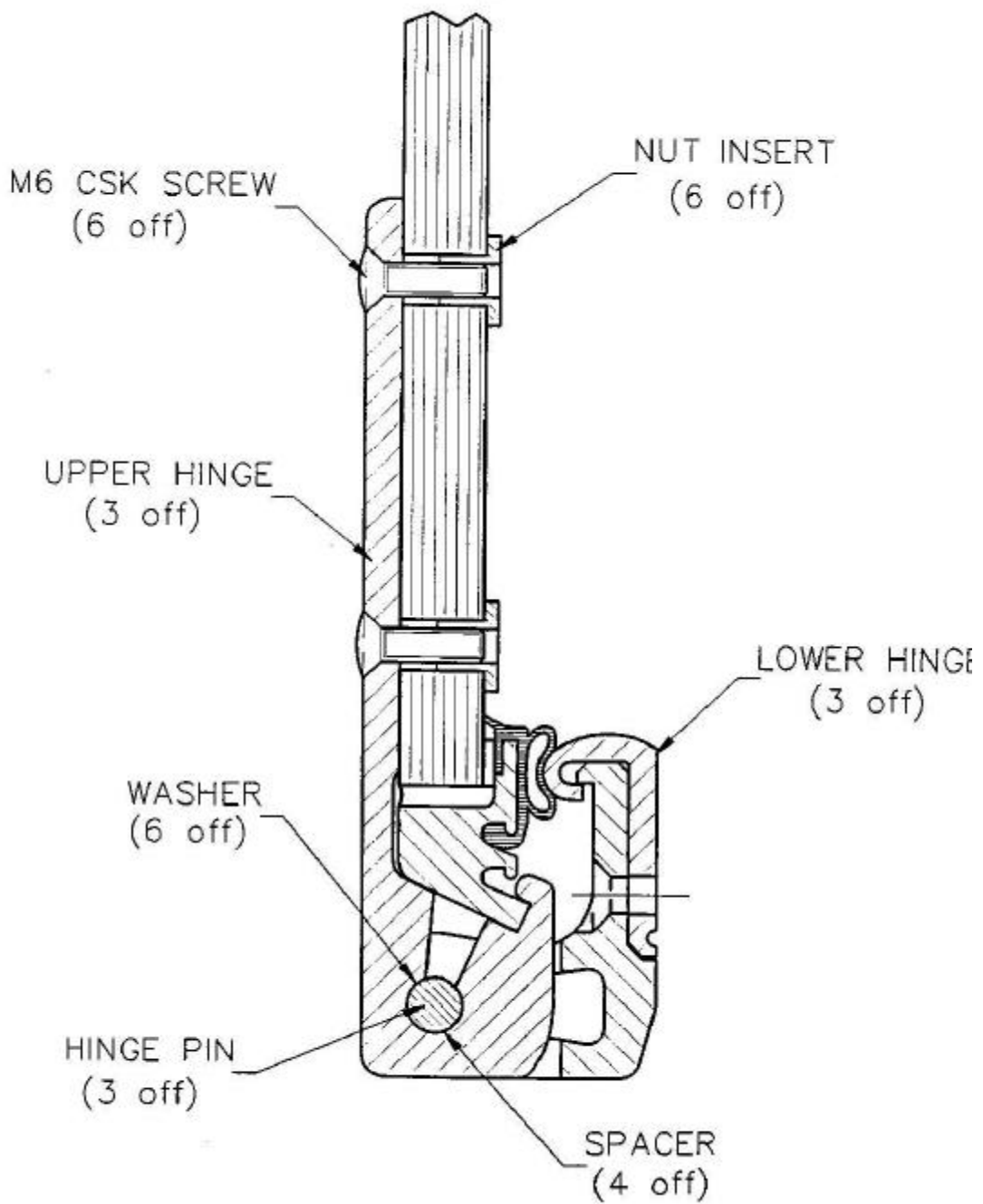
ROLLSTOP SEAL KITS

19783100	RS 10 SEAL KIT SPARE
19783200	RS 20 SEAL KIT SPARE
19783300	RS 30 SEAL KIT SPARE
19783400	RS 40 SEAL KIT SPARE
19783500	RS 50 SEAL KIT SPARE
19783600	RS 60 SEAL KIT SPARE
19783700	RS 70 SEAL KIT SPARE

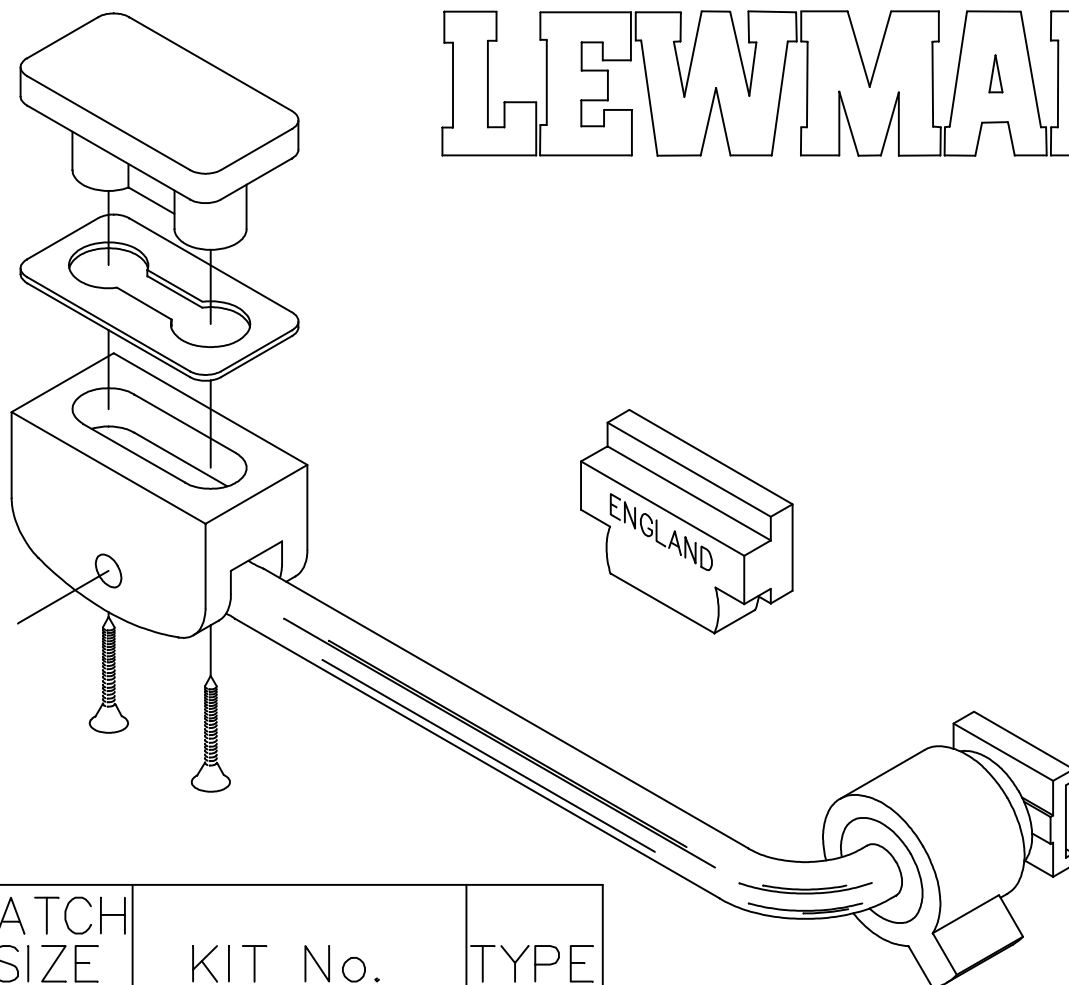
LEWMAR®

SIZE 6 HINGE PIN KIT

Part Number 360714999



LEWMAR



HATCH SIZE	KIT No.	TYPE
10	36007099Z	L.H.
30&35	36007199Z	L.H.
35	36007299Z	R.H.
40	36007399Z	L.H.
50	36007499Z	L.H.
60	36007599Z	L.H.
60	36007699Z	R.H.
70	36007799Z	L.H.
70	36007899Z	R.H.

Z = 0 FOR STANDARD GREY
AND 1 FOR BENETEAU GREY

TRIMLINE SPARE PARTS

STAY KITS

ISSUE

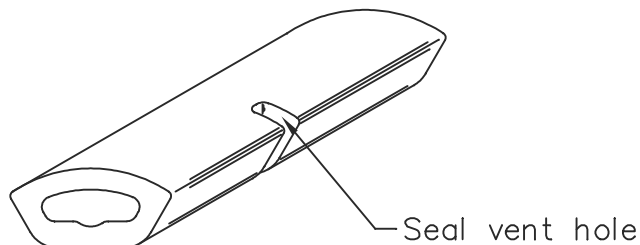
1.3

DATE

16-JUN-00

LEWMAR

B5539-2



KIT No.	HATCH	HATCH OVERALL SIZE REF.
360580999	SIZE 00	281 x 281
360583999	SIZE 10	330 x 330
360604999	SIZE 18	ROUND DIA 490
360584999	SIZE 20	417 x 272
360603999	SIZE 22	ROUND DIA 588
360595999	SIZE 30	527 x 397
360595999	SIZE 31	397 x 527 (SIDE HINGE)
360596999	SIZE 35	585 x 455
360597999	SIZE 40	491 x 491
360593999	SIZE 44	512 x 512
360598999	SIZE 45	577 x 491
360599999	SIZE 50	577 x 447
360594999	SIZE 54	577 x 462
360600999	SIZE 60	577 x 577
360601999	SIZE 65	TRAPEZOIDAL 675x559x560
360602999	SIZE 70	697 x 697

FITTING INSTRUCTIONS

Items required for seal replacement:

solvent based Contact adhesive for fixing seal into frame.

- 1 Remove the old seal by starting to lift the seal in one place and then pull it off all the way around. (a blunt scraper may help at this stage).
- 2 Remove any excessive adhesive remaining in the seal channel, taking care not to damage the frame.
- 3 Apply the contact adhesive sparingly all round the frame channel and firmly press the seal into the frame, ensuring that the seal vent hole is facing the inside of the hatch.
- 4 Check the seal is pushed fully into the frame channel all the way around.

TRIMLINE & COASTLINE SPARE PARTS

SEAL KITS

ISSUE

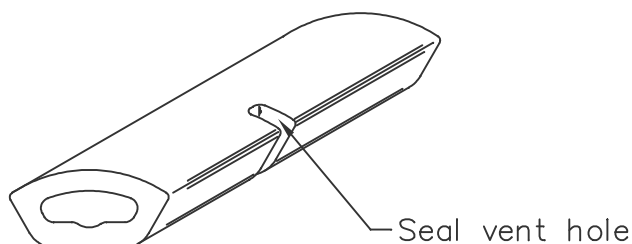
1.4

DATE

21.4.98

LEWMAR

B5540-1



KIT No.	HATCH	HATCH OVERALL SIZE
360580999	SIZE 00	281 x 281
360581999	SIZE 03	301 x 246
360582999	SIZE 05	330 x 246
360583999	SIZE 10	330 x 330
360584999	SIZE 20	417 x 272
360585999	SIZE 21	413 x 330
360586999	SIZE 23	425 x 201
360587999	SIZE 24	424 x 209
360588999	SIZE 33	554 x 259
360589999	SIZE 41	494 x 246
360590999	SIZE 52	557 x 301
360591999	SIZE 61	577 x 330

FITTING INSTRUCTIONS

Items required for seal replacement:

solvent based Contact adhesive for fixing seal into frame.

- 1 Remove the old seal by starting to lift the seal in one place and then pull it off all the way around. (a blunt scraper may help at this stage).
- 2 Remove any excessive adhesive remaining in the seal channel, taking care not to damage the frame.
- 3 Apply the contact adhesive sparingly all round the frame channel and firmly press the seal into the frame, ensuring that the seal vent hole is facing the inside of the hatch.
- 4 Check the seal is pushed fully into the frame channel all the way around.

TRIMPORT SPARE PARTS

SEAL KITS

ISSUE

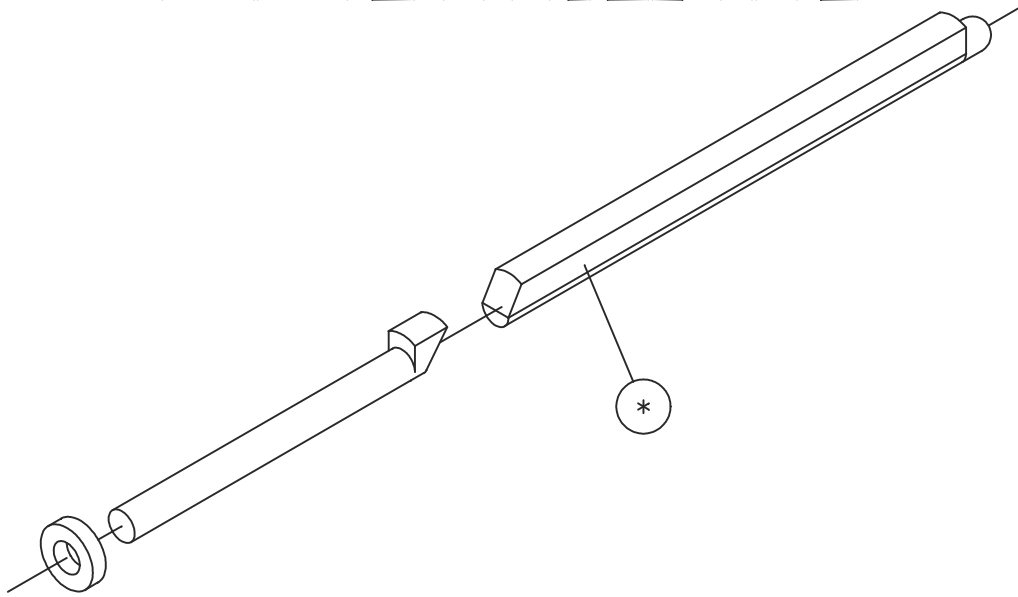
1.2

DATE

11.10.94

LEWMAR

B5541-1



* HINGE PLUG REQUIRES TRIMMING TO LENGTH ON SIZES 00 TO 23

KIT No.	HATCH SIZE
360087999	00 & 03
360088999	05 & 10
360089999	20,21 & 23
360090999	30 TO 70

TRIMLINE & TRIMPORT SPARE PARTS

HINGE PIN KITS

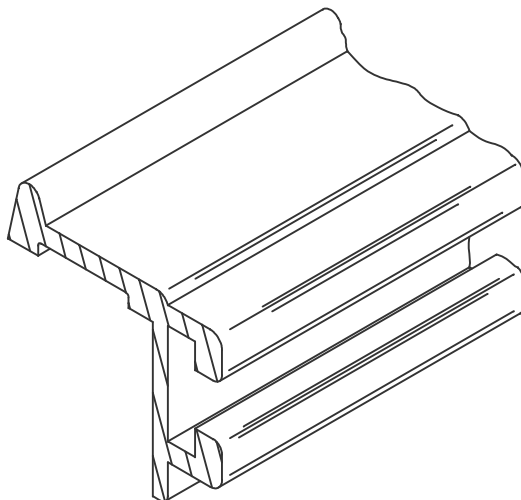
ISSUE

1.1

DATE

10.6.92

LEWMAR



KIT No.	HATCH	HATCH O-ALL SIZE REF.
3600949Y9	10	330 x 330
3600959Y9	30	527 x 397
3600969Y9	35	585 x 455
3600979Y9	40	491 x 491
3600989Y9	50	577 x 447
3600999Y9	60	577 x 577
3601009Y9	70	697 x 697

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

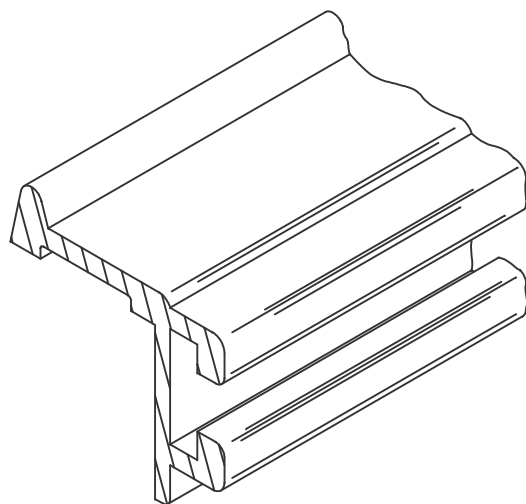
TRIMLINE SPARE PARTS

LOWER FRAMES

ISSUE 1.3

DATE 24-MAY-00

LEWMAR



Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH	HATCH O-ALL SIZE
3604339Y9	03	301 x 246
3604349Y9	05	330 x 246
3600919Y9	11	330 x 330
3604359Y9	23	425 x 201
3604369Y9	33	554 x 259
3604379Y9	41	494 x 246
3604389Y9	52	557 x 301
3604399Y9	61	557 x 330

TRIMPORT SPARE PARTS (Friction Stay)

LOWER FRAMES

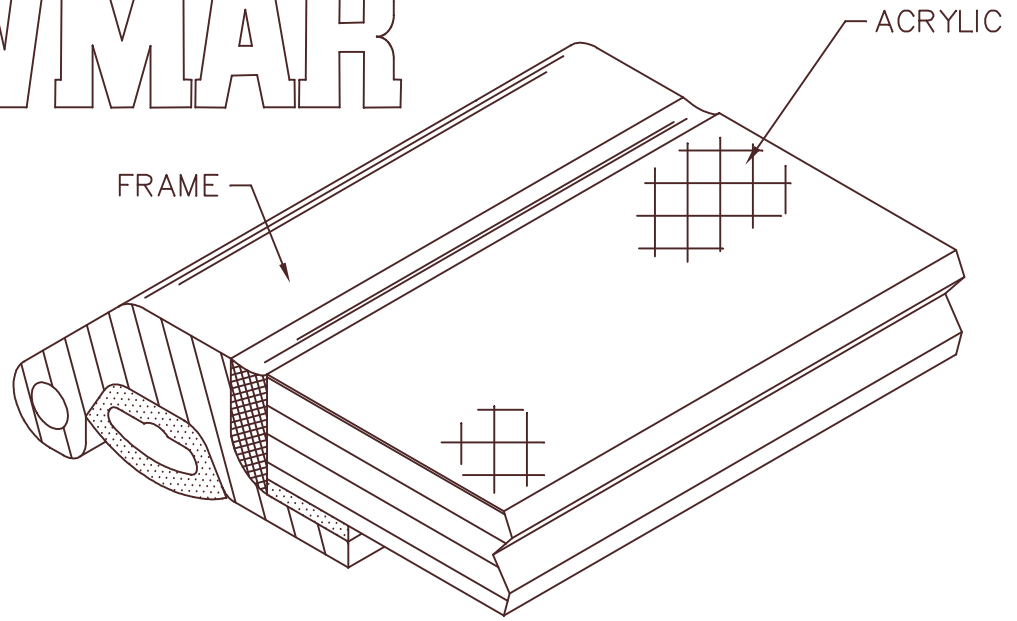
ISSUE

1.3

DATE

24-MAY-00

LEWMAR



KIT No.	HATCH	HATCH O-ALL SIZE REF.
360103XY9	10	330 x 330
360104XY9	30	527 x 397
360105XY9	35	585 x 455
360106XY9	40	491 x 491
360107XY9	50	577 x 447
360108XY9	60	577 x 577
360109XY9	70	697 x 697

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

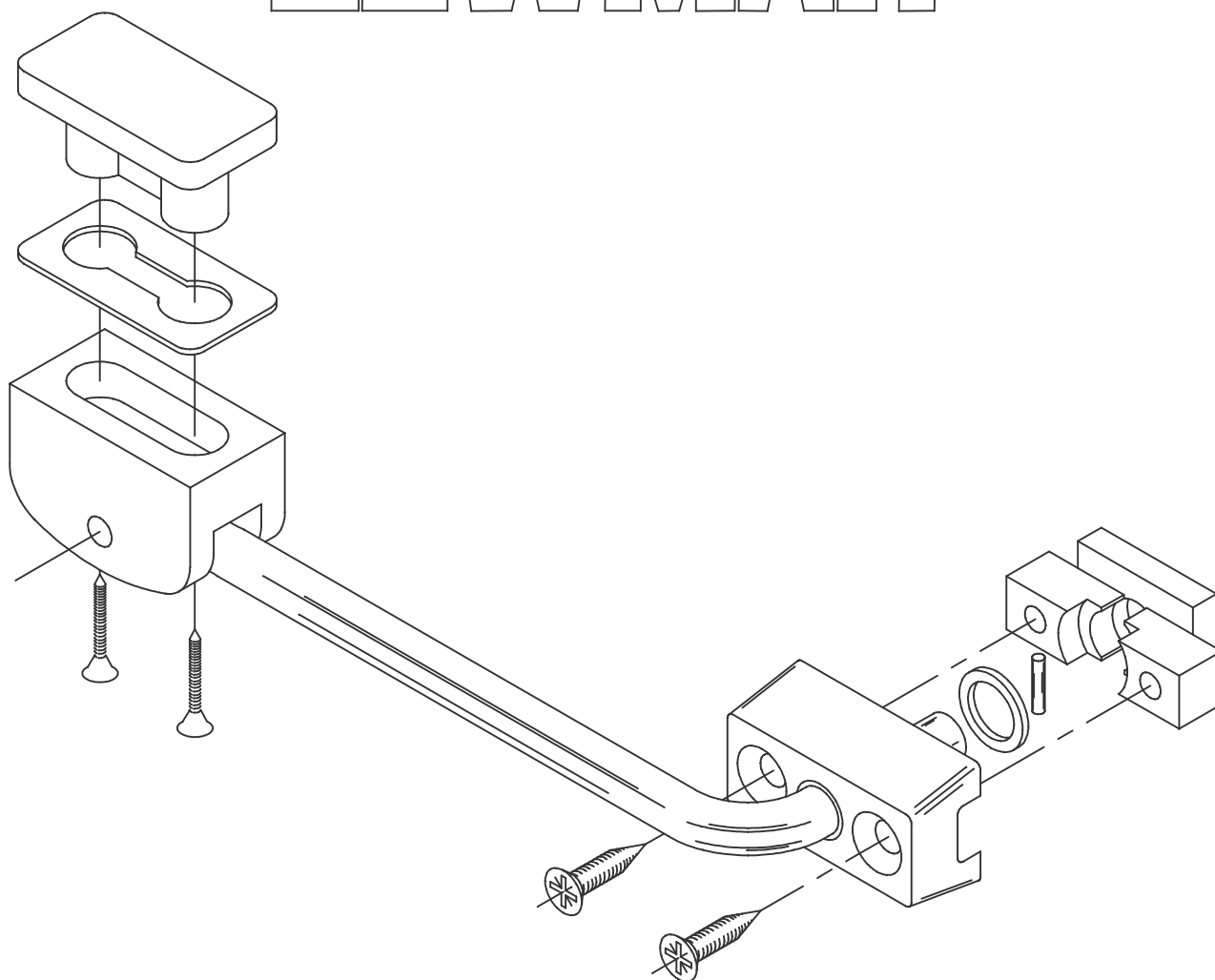
TRIMLINE SPARE PARTS

UPPER FRAME

ISSUE 1.3

DATE 24-MAY-00

LEWMAR



KIT No.	HATCH SIZE
36011299Z	03 & 05
36011399Z	11 & 41
36011499Z	23

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

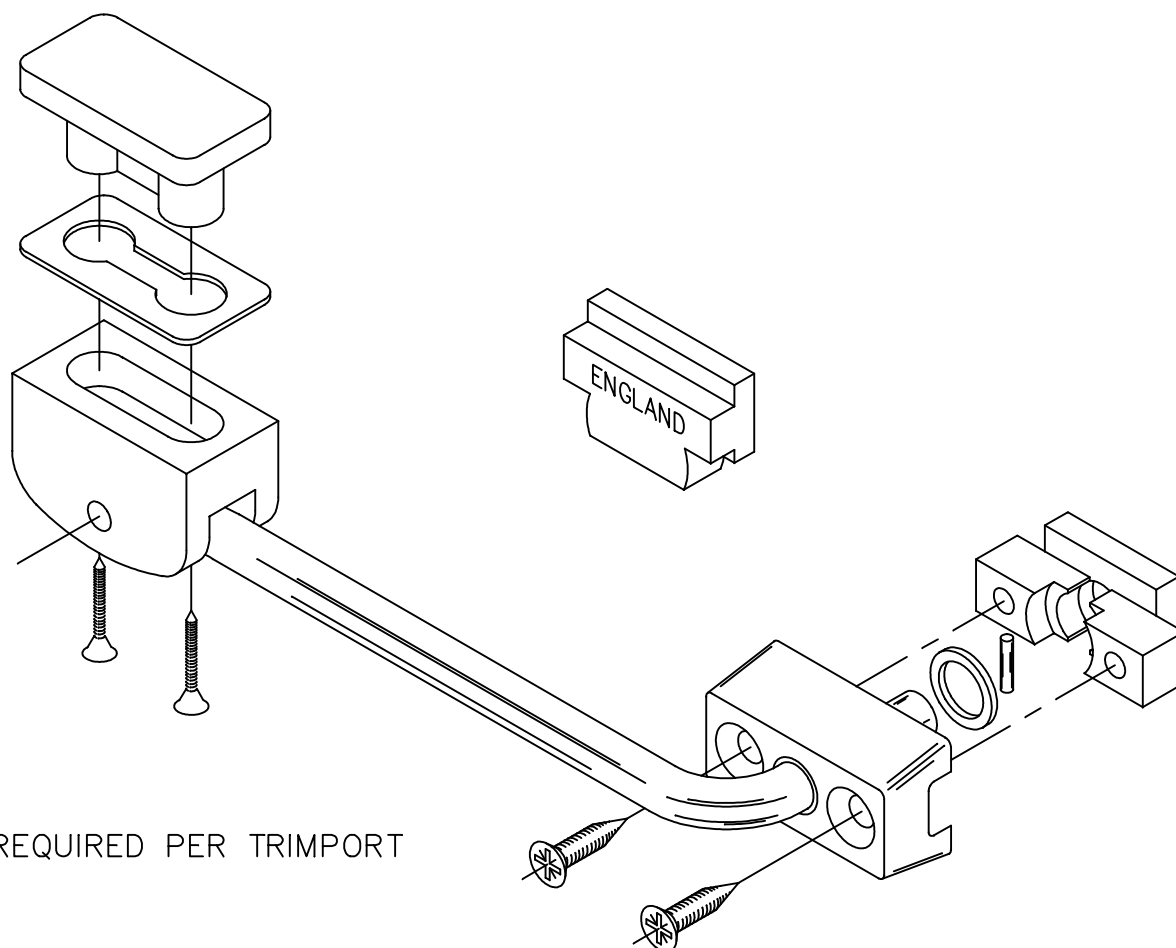
TRIMPORT SPARE PARTS

03,05,11,23 & 41 STAY KITS

ISSUE 1.1

DATE 12.6.92

LEWMAR



2 off REQUIRED PER TRIMPORT

KIT No.	HATCH SIZE
36011599Z	52
36011699Z	61

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

TRIMPORT SPARE PARTS

SIZE 52 & 61
STAY KITS

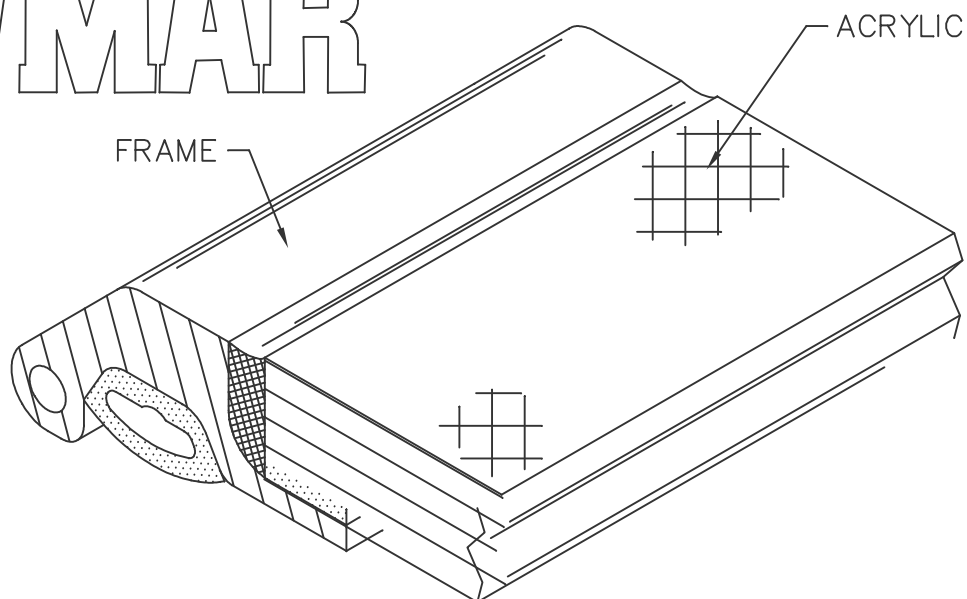
ISSUE

1.2

DATE

16-JUN-00

LEWMAR



KIT No.	HATCH	HATCH O-ALL SIZE
360117XY9	03	301 x 246
360118XY9	05	330 x 246
360119XY9	11	330 x 330
360120XY9	23	425 x 201
360124XY9	33	554 x 259
360121XY9	41	494 x 246
360122XY9	52	557 x 301
360123XY9	61	577 x 330

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

TRIMPORT SPARE PARTS (Friction Stay)

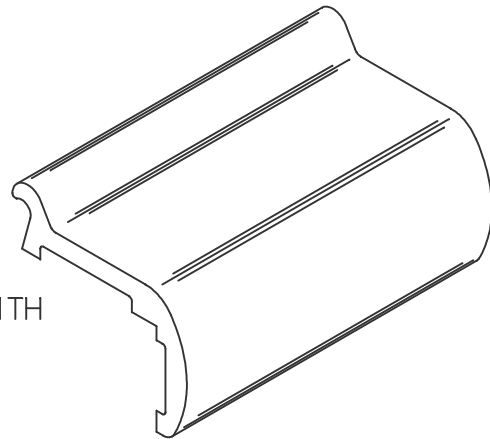
UPPER FRAME

ISSUE 1.3

DATE 24-MAY-00

LEWMAR

B5575-3



LOWER FRAMES ARE SUPPLIED COMPLETE WITH
CATCH BLOCKS AND FRICTION LEVER FITTED

KIT No.	HATCH	HATCH O-ALL SIZE
3601259YZ	00	281 x 281
3601269YZ	03	301 x 246
3601279YZ	05	330 x 246
3601289YZ	10	330 x 330
3601299YZ	20	417 x 272
3601309YZ	21	413 x 330
3601319YZ	23	425 x 201
3601359YZ	33	554 x 259
3601329YZ	41	494 x 246
3601339YZ	52	557 x 301
3601349YZ	61	557 x 330

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

'Z' DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

TRIMPORT SPARE PARTS

LOWER FRAMES

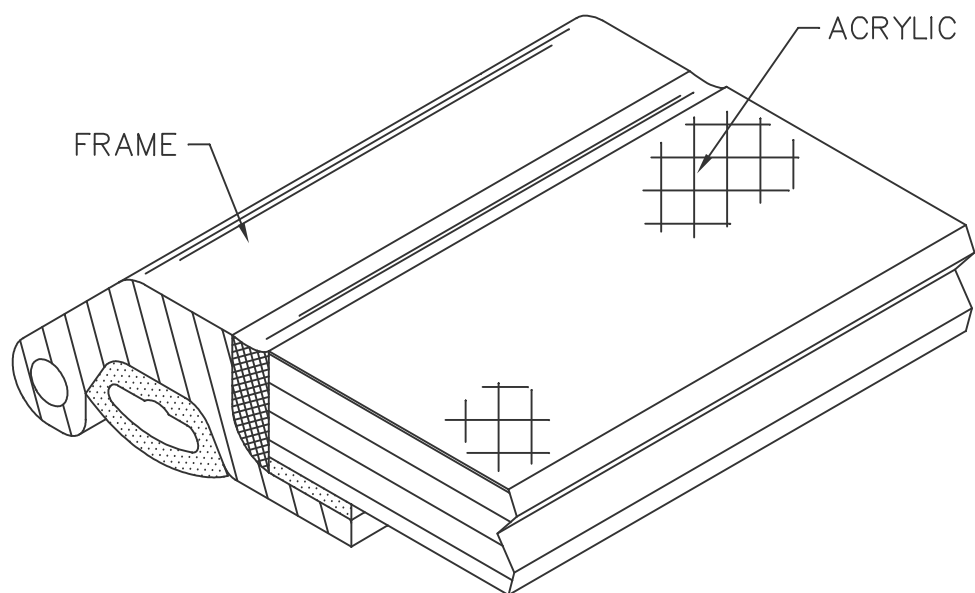
ISSUE

1.3

DATE

24-MAY-00

LEWMAR



KIT No.	HATCH	HATCH O-ALL SIZE
360136XY9	00	281 x 281
360137XY9	03	301 x 246
360138XY9	05	330 x 246
360139XY9	10	330 x 330
360140XY9	20	417 x 272
360141XY9	21	413 x 330
360142XY9	23	425 x 201
360146XY9	33	554 x 259
360143XY9	41	494 x 246
360144XY9	52	557 x 301
360145XY9	61	557 x 330

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

TRIMPORT SPARE PARTS (Friction Lever)

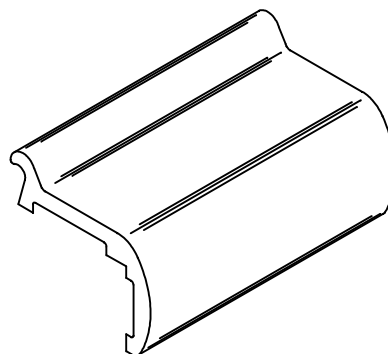
UPPER FRAME

ISSUE 1.3

DATE 24-MAY-00

LEWMAR

'Z' DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY



Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

LOWER FRAMES ARE SUPPLIED COMPLETE WITH CATCH
BLOCKS (FOR HANDLES) AND LEVER PIVOTS FITTED.

KIT No.	HATCH	HATCH O-ALL SIZE
3601579YZ	18	ROUND DIA 490
3601589YZ	22	ROUND DIA 588
3601479YZ	30	527 x 397
3601489YZ	35	585 x 455
3601499YZ	40	491 x 491 (1 HANDLE)
3601719YZ	40	491 x 491 (2 HANDLE)
3601729YZ	44	512 x 512
3601509YZ	45	577 x 491
3601519YZ	50	577 x 447
3601739YZ	54	577 x 462
3601529YZ	60	577 x 577
3601539YZ	65	TRAPEZOIDAL 675x559x560
3601549YZ	70	697 x 697
3601559YZ	75	TRAPEZOIDAL 804x550x693

COASTLINE SPARE PARTS

LOWER FRAMES

ISSUE

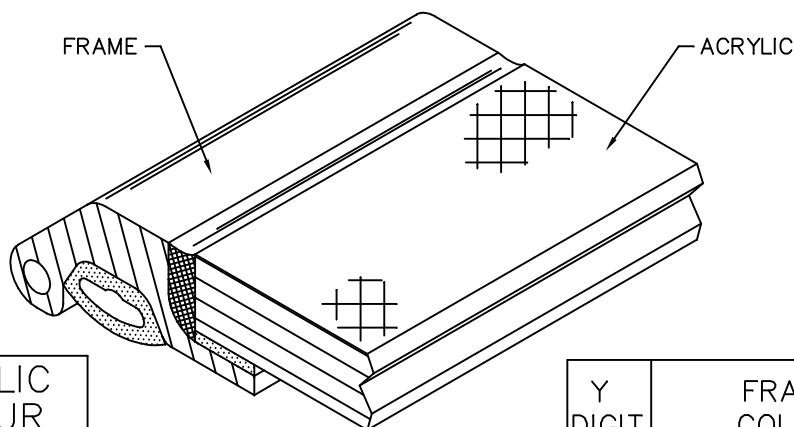
1.4

DATE

27-JUN-00

LEWMAR

B5611-4



X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH	HATCH O-ALL SIZE
360453XY9	18	ROUND DIA 490
360452XY9	22	ROUND DIA 588
360160XY9	30	527 x 397
360161XY9	35	585 x 455
360162XY9	40	491 x 491 (1 HANDLE)
360170XY9	40	491 x 491 (2 HANDLE)
360179XY9	44	512 x 512
360163XY9	45	577 x 491
360164XY9	50	577 x 447
360180XY9	54	577 x 462
360165XY9	60	577 x 577
360166XY9	65	TRAPEZOIDAL 675x559x560
360167XY9	70	697 x 697
360168XY9	75	TRAPEZOIDAL 804x550x693

COASTLINE SPARE PARTS

UPPER FRAME

ISSUE

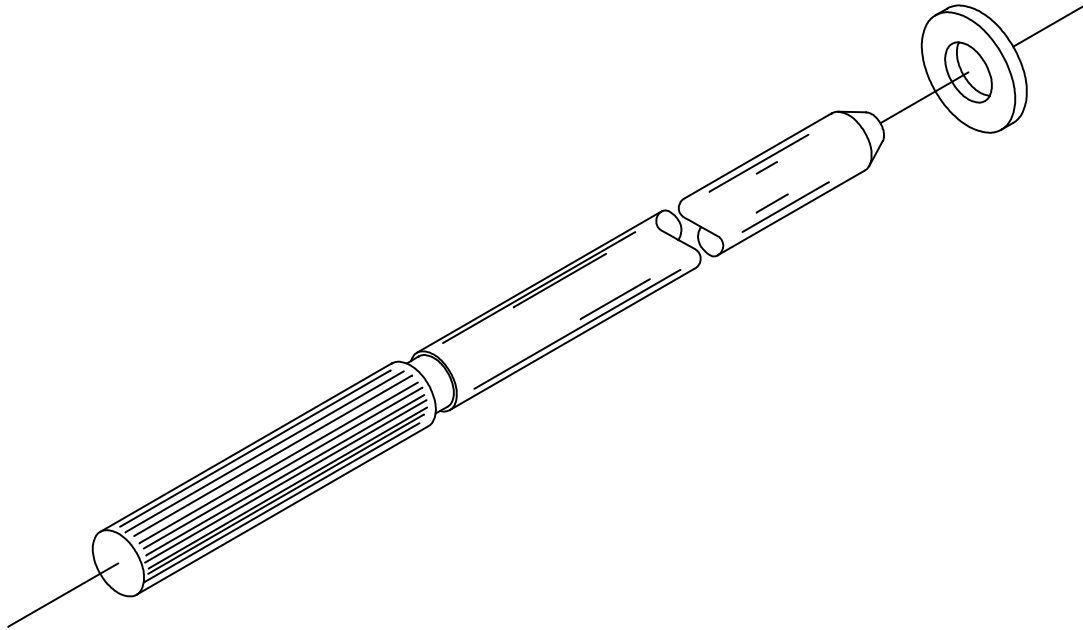
1.5

DATE

28-JUN-00

LEWMAR

B5622-2



KIT No.	HATCH SIZE
360174999	30,35,40,45,50,60 & 65
360175999	70
360176999	75
360177999	18 & 22

COASTLINE SPARE PARTS

HINGE PIN KITS

ISSUE

1.2

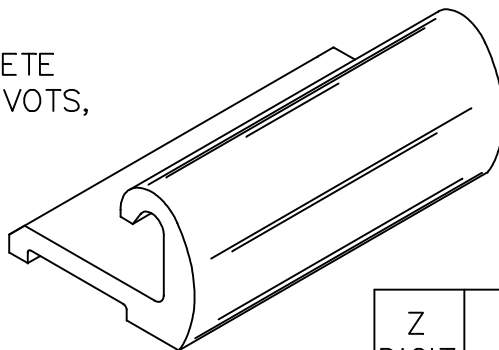
DATE

16.6.92

LEWMAR

NOTE!

FRAMES ARE SUPPLIED COMPLETE
WITH LOWER HINGES, LEVER PIVOTS,
CATCH BLOCKS AND RIVETS.



Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH	HATCH OVERALL SIZE
3601879YZ	00	276 x 276
3601899YZ	10	325 x 325
3601919YZ	20	267 x 412
3601939YZ	30	392 x 522
3601959YZ	40	486 x 486
3602139YZ	44	509 x 509
3601979YZ	45	486 x 572
3601999YZ	50	445 x 575
3602159YZ	54	459 x 574
3602019YZ	60	575 x 575
3602039YZ	65	TRAPEZOIDAL 676x554x557
3602059YZ	66	669 x 669
3602079YZ	70	695 x 695
3602099YZ	75	TRAPEZOIDAL 807x552x695
3602119YZ	77	769 x 769

OCEAN HATCH SPARE PARTS

LOWER FRAMES - FLAT

ISSUE

1.4

DATE

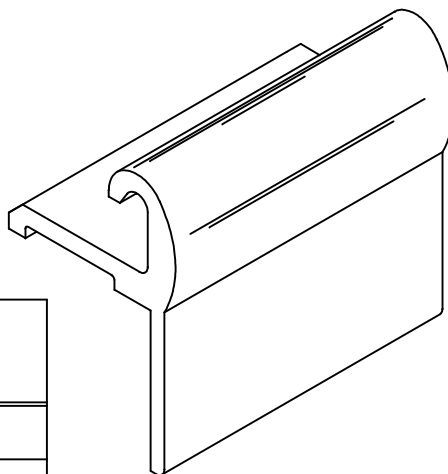
28-JUN-00

LEWMAR

B5626-3

NOTE

FRAMES ARE SUPPLIED COMPLETE WITH LOWER HINGES, LEVER PIVOTS, CATCH BLOCKS & RIVETS.



'Z' DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH	HATCH OVERALL SIZE
3601889YZ	00	276 x 276
3601909YZ	10	325 x 325
3601929YZ	20	267 x 412
3601949YZ	30	392 x 522
3601969YZ	40	486 x 486
3602149YZ	44	509 x 509
3601989YZ	45	486 x 572
3602009YZ	50	445 x 575
3602169YZ	54	459 x 575
3602029YZ	60	575 x 575
3602049YZ	65	TRAPEZOIDAL 676x554x557
3602069YZ	66	669 x 669
3602089YZ	70	695 x 695
3602109YZ	75	TRAPEZOIDAL 807x552x695
3602129YZ	77	769 x 769

OCEAN HATCH SPARE PARTS

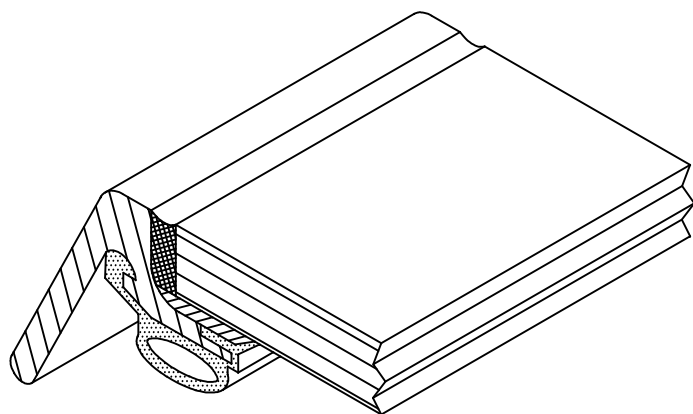
LOWER FRAMES - FLANGED

ISSUE

1.4

DATE 28-JUN-00

LEWMAR



X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH	HATCH OVERALL SIZE
360218XY9	00	276 x 276
360219XY9	10	325 x 325
360220XY9	20	267 x 412
360221XY9	30	392 x 522
360222XY9	40	486 x 486
360233XY9	44	509 x 509
360223XY9	45	486 x 572
360224XY9	50	445 x 575
360234XY9	54	459 x 575
360225XY9	60	575 x 575
360226XY9	65	TRAPEZOIDAL 676x554x557
360227XY9	66	669 x 669
360228XY9	70	695 x 695
360229XY9	75	TRAPEZOIDAL 807x552x695
360230XY9	77	769 x 769

OCEAN HATCH SPARE PARTS

UPPER FRAMES

ISSUE

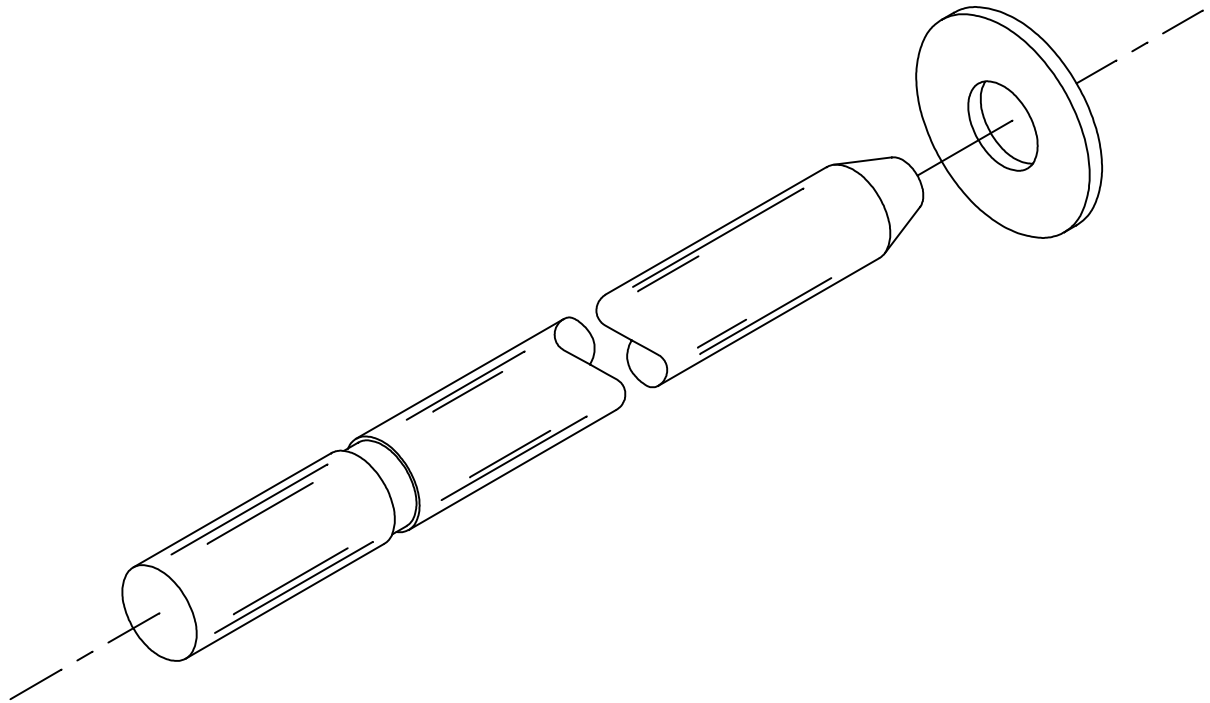
1.4

DATE

28-JUN-00

LEWMAR

B5659-2



KIT No.	HATCH SIZE
360235999	00
360236999	10
360237999	20,30,40,44,45,50,54,60 & 65
360238999	66
360239999	70
360240999	75
360241999	77

OCEAN HATCH SPARE PARTS

HINGE PIN KITS

ISSUE

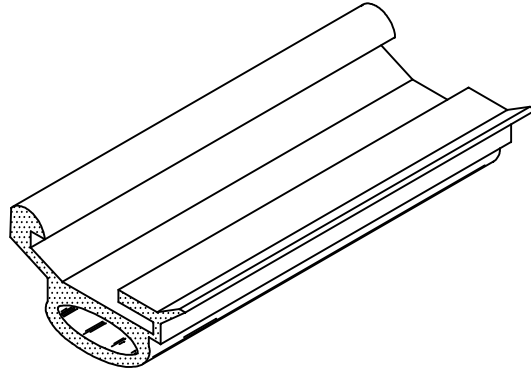
1.2

DATE

22.4.98

LEWMAR

B5660-3



KIT No.	HATCH	HATCH OVERALL SIZE
360370999	00	276 x 276
360371999	10	325 x 325
360372999	20	267 x 412
360373999	30	392 x 522
360374999	40	486 x 486
360381999	44	509 x 509
360375999	50	445 x 575
360382999	54	459 x 574
360376999	60	575 x 575
360377999	63	624 x 624
360378999	65	TRAPEZOIDAL 676x554x557
360379999	70	695 x 695
360380999	75	TRAPEZOIDAL 807x552x695
360383999	77	767 x 767

OCEAN HATCH SPARE PARTS

REPLACEMENT SEALS

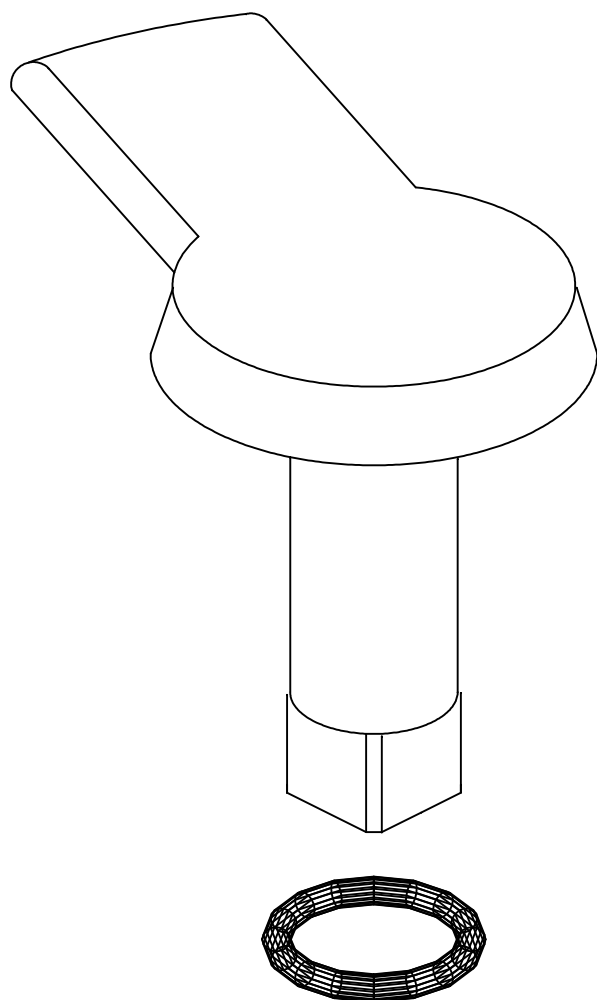
ISSUE

1.3

DATE

03.12.98

LEWMAR



KIT No. 360779099

1 PER BAG

ALLOY EXTERNAL HANDLE

EXTERNAL HANDLES

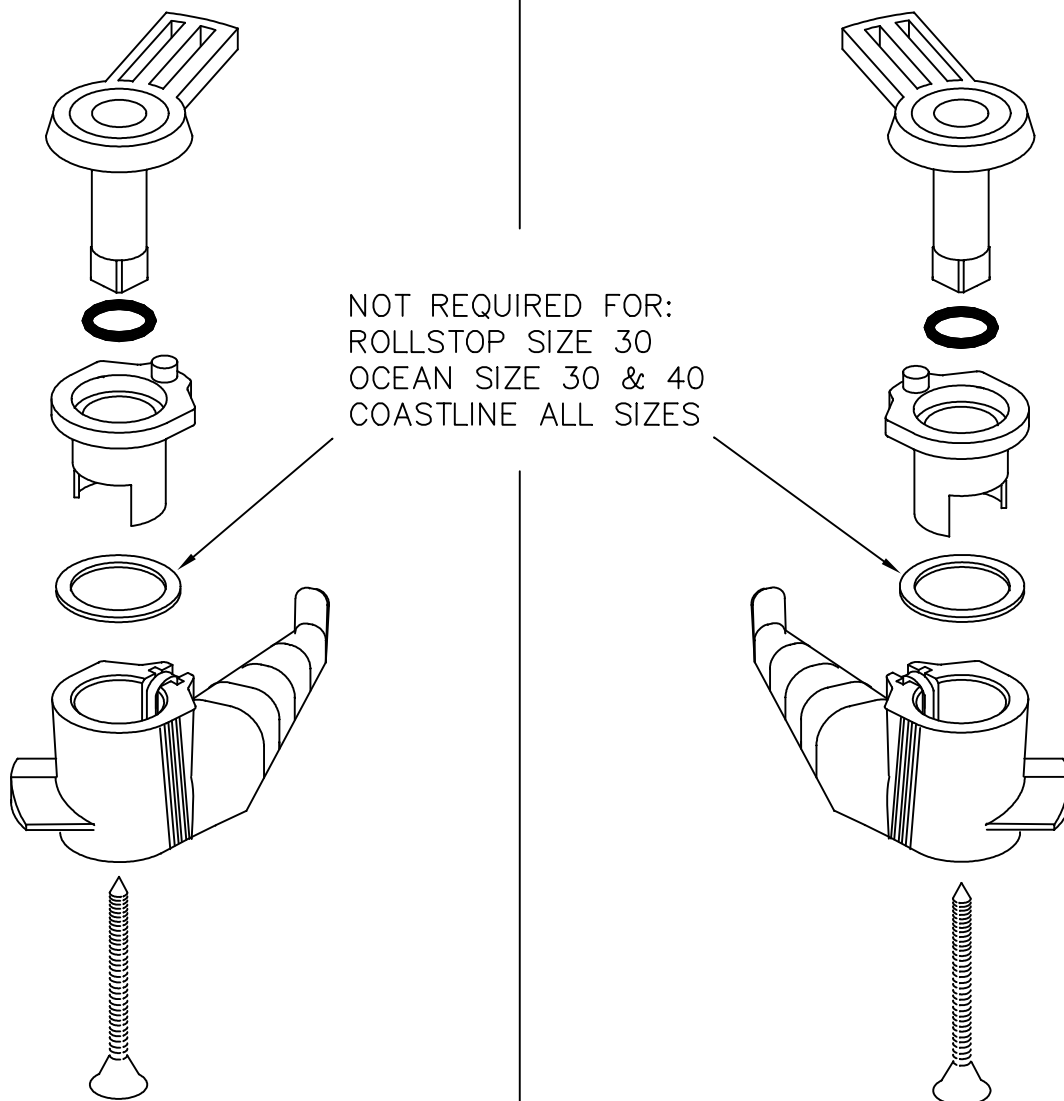
ISSUE

1.1

DATE

18.11.98

LEWMAR



KIT No. 36024999Z L.H.

USED ON COASTLINE SZ 40 WITH
 1 HANDLE

KIT No. 36025099Z R.H.

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

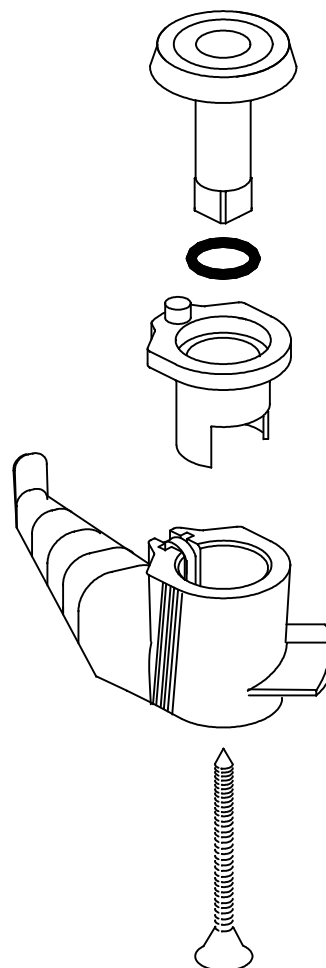
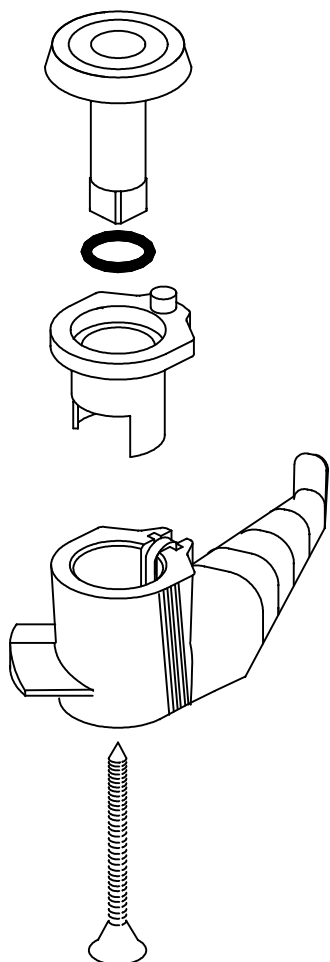
HATCH SPARE PARTS
 USED ON ALL HATCHES SIZE 30 OR LARGER

LARGE HANDLE KIT

ISSUE 1.3

DATE 28-JUN-00

LEWMAR



KIT No.	36025199Z	L.H.
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KIT No.	36025299Z	R.H.
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Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

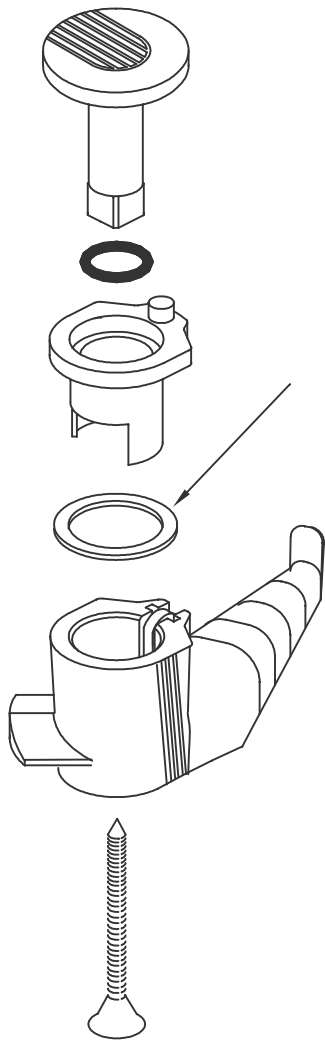
HATCH SPARE PARTS

LARGE HANDLE KIT

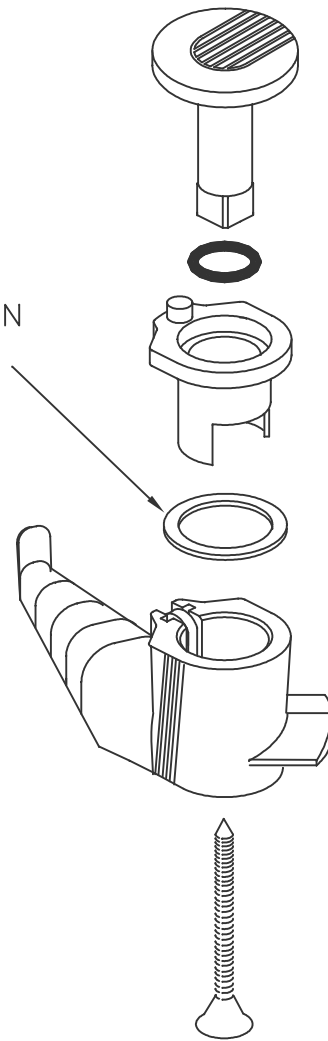
ISSUE 1.2

DATE 28-JUN-00

LEWMAR



ONLY TO BE USED ON
SIZE 10,30 & 40



KIT No.	36025399Z	L.H.
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KIT No.	36025499Z	R.H.
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Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

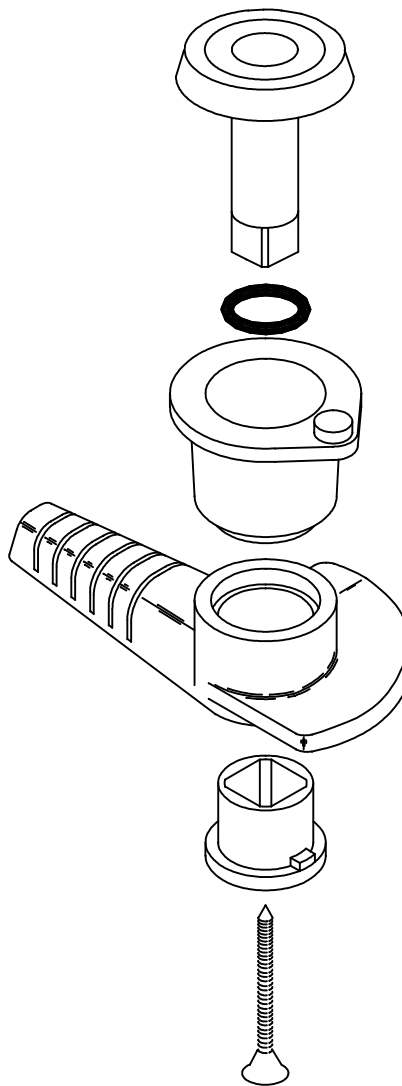
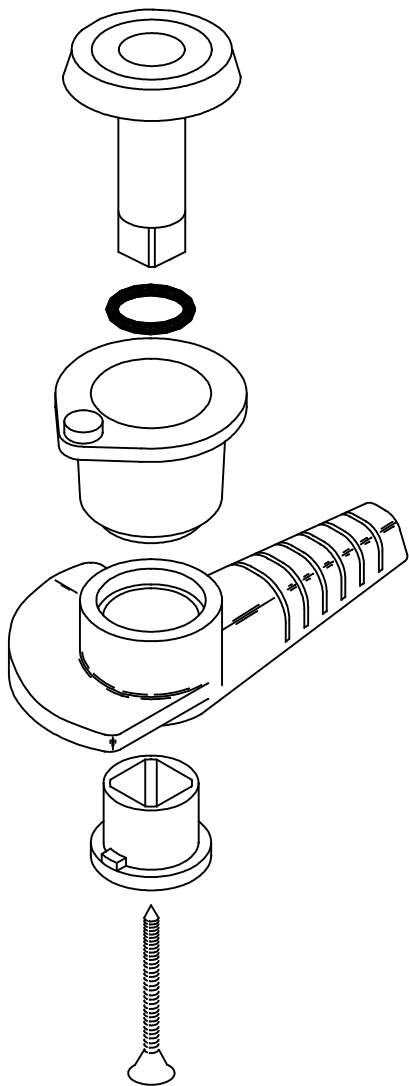
TRIMLINE HATCH SPARE PARTS

HANDLE KITS

ISSUE 1.2

DATE 18.7.92

LEWMAR



KIT No.	36025599Z	L.H.
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KIT No.	36025699Z	R.H.
---------	-----------	------

USED ON TRIMPORTS
WITH ONLY 1 HANDLE

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

TRIMPORT SPARE PARTS

SMALL HANDLE KITS

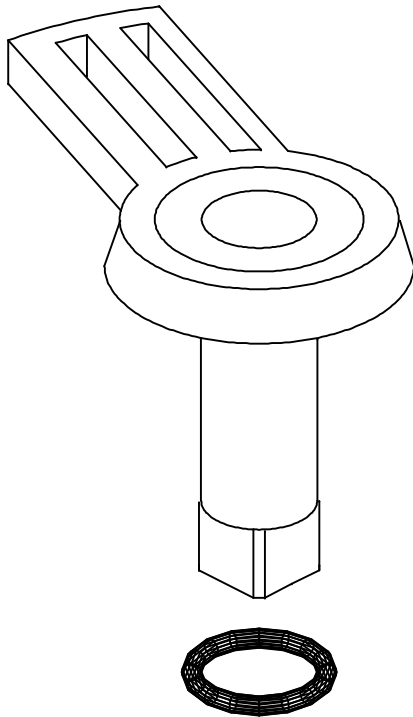
ISSUE

1.4

DATE

16-JUN-00

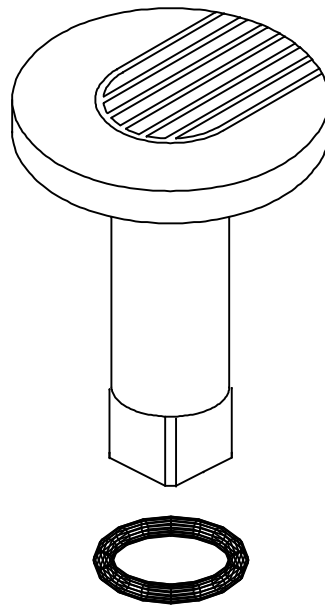
LEWMAR



KIT No. 36070299Z

10 PER BAG

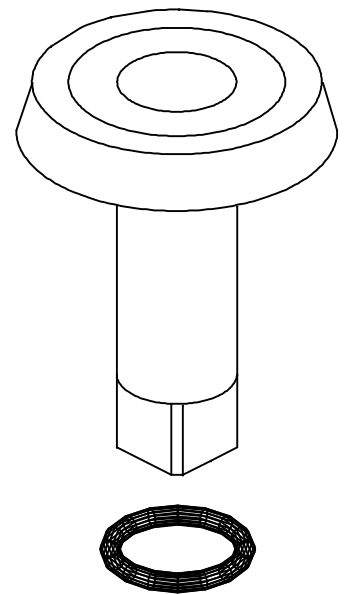
USED ON OCEAN AND COASTLINE
HATCHES SIZE 30 OR LARGER



KIT No. 36026999Z

10 PER BAG

USED ON TRIMLINE HATCHES



KIT No. 36068999Z

10 PER BAG

USED ON TRIMPORT & HATCHES
SMALL OCEAN HATCHES

REFER TO TABLE 'Z' FOR COLOUR VARIANTS

HATCH SPARE PARTS

EXTERNAL HANDLES

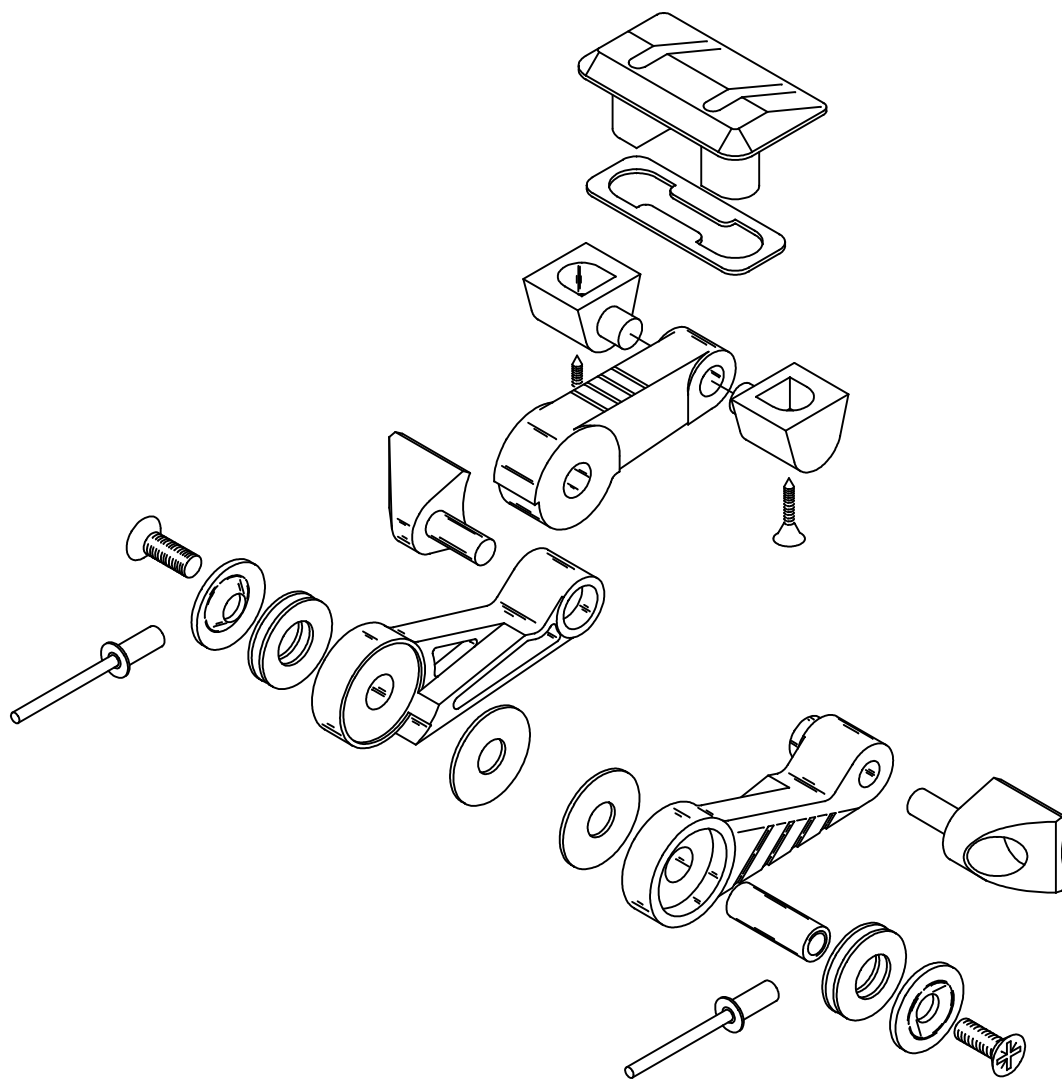
ISSUE

1.3

DATE

23-AUG-01

LEWMAR



KIT No.	USED ON
36027099Z	TRIMPORT HATCHES
36027199Z	SMALL OCEAN HATCHES (00,10 & 20)

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

HATCH SPARE PARTS

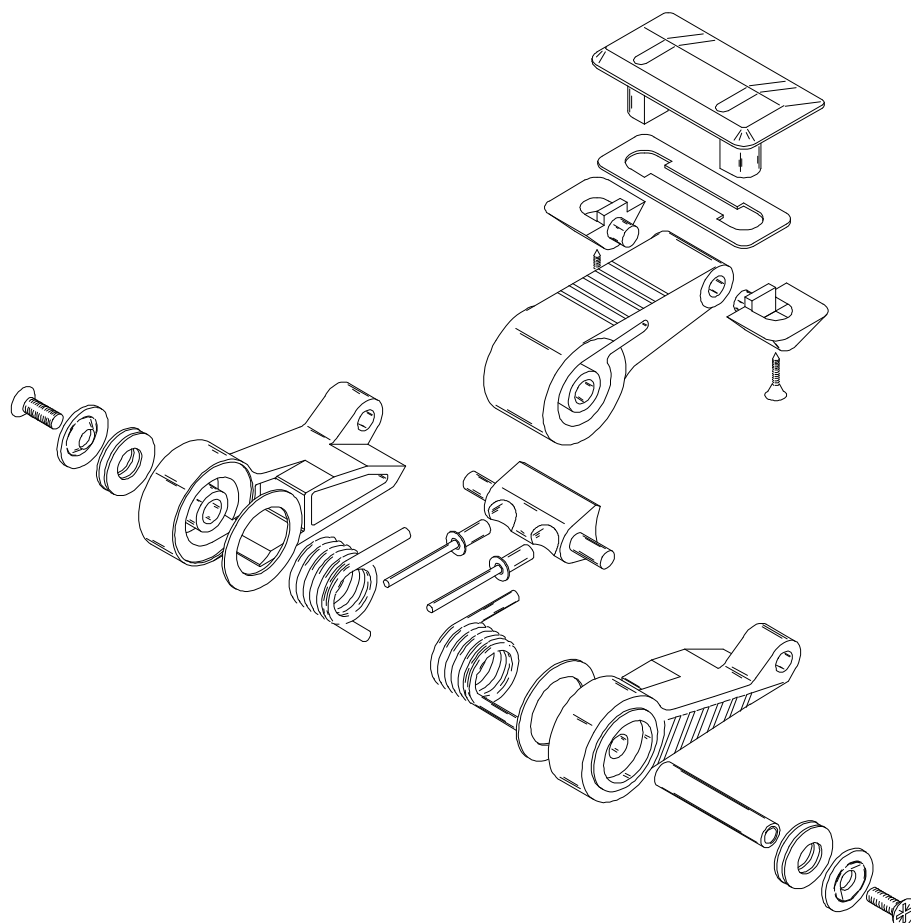
SMALL FRICTION LEVER KITS

ISSUE 1.2

DATE 16-6-00

LEWMAR

B5676-3



KIT No.	USED ON
36027299Z	COASTLINE 18, 22, 30, 40, 44, 50, 54 & 60 OCEAN 30, 40 & 44
36027399Z	COASTLINE 65 & 70 OCEAN 50, 54, 60, 65, 70 & 77

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

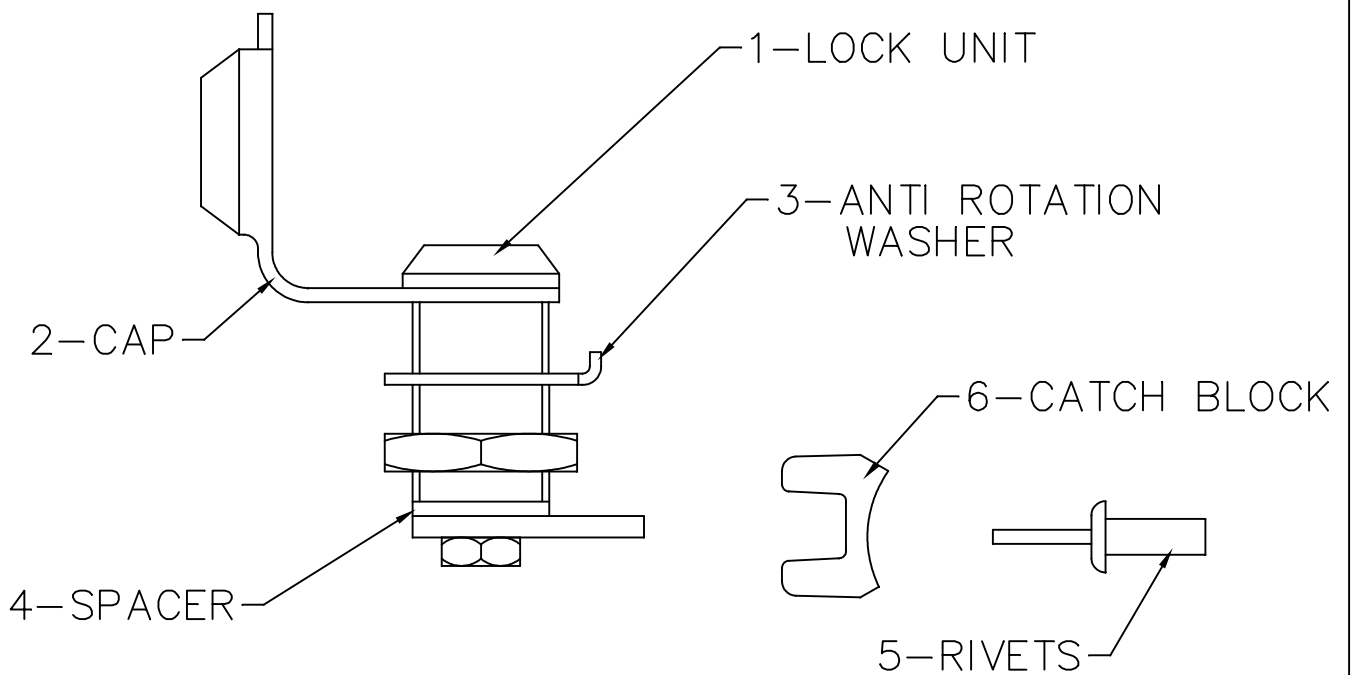
HATCH SPARE PARTS

LARGE FRICTION LEVER KITS

ISSUE 1.3

03-AUG-01

LEWMAR



LOCK KIT NO.	360259990
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KIT DOES NOT FIT SIZE 6 HATCH

HATCH RETROFIT LOCK KIT

DECK HATCHES

ISSUE

1.3

DATE

03-JUL-00

LEWMAR®

HATCH RETRO FIT LOCK & KEY FITTING INSTRUCTIONS

NOTES

- This kit does not fit Size 6 Hatches [882 x 882mm (34³/₄ x 34³/₄") overall]
- These instructions are for square and rectangular hatches only.
- When drilling use water as a lubricant and control the drill speed to prevent the acrylic over heating.
- When making the 20mm (3/4") hole, drill or cut in from both sides, this will prevent the acrylic from chipping when the drill / hole saw breaks through.
- Fit the lock first, then confirm the position of the catch block which should be fitted second.

TOOLS REQUIRED

- 20mm (3/4") drill or hole saw
- 5mm (3/16") drill bit
- variable speed drill
- masking tape
- rivet gun
- 12mm and 24mm (or adjustable) spanner

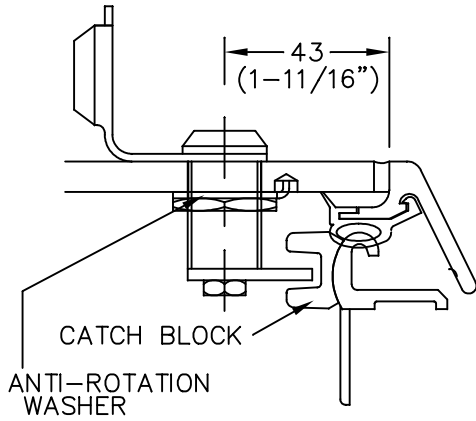
INSTRUCTIONS

1. Using the drawings over, confirm which type of hatch is to be modified.
2. On the outside of the hatch, apply masking tape in area where hole is to be drilled and mark the centre of the hole using the dimension given in the drawings over.
3. Leave the masking tape in place to stop the drill bit slipping and drill a pilot hole.
4. Using water as a lubricant and controlling the drill speed to prevent overheating, use the pilot hole as a guide to drill a 20mm (3/4") hole 1/2 way through the acrylic.
5. Complete drilling the hole from the other face of the acrylic to prevent chipping when the drill breaks through.
6. Apply masking tape to the inside of the hatch in the area where the 5mm (3/16") hole is to be drilled. Mark the centre of the hole using the dimension shown in the drawing below. The hole should be towards the edge of the hatch. Apply a small piece of masking tape 3mm (1/8") from the end of the 5mm (3/16") drill bit to mark the drilling depth required and drill the hole to this depth.
7. Fit the lock assembly as shown in the drawings below, note that some hatches will require the spacer. Ensure that the anti-rotation washer is correctly engaged before tightening the lock nut to avoid acrylic damage.
8. The kit is supplied with two types of Catch Blocks, one for Ocean and Coastline hatches and one for Low and Medium Profile hatches. Confirm which type of Catch Block is already fitted to the hatch for the handles. The lock will require the same catch block fitted the same way up.
9. Apply masking tape to the lower frame in the area where the Catch Block is to be fitted. Close the hatch and, with the handles engaged, establish the best position for the lock's Catch Block. Mark the hole centres on the masking tape.
10. Using the masking tape to prevent the drill from slipping, drill the holes for the catch block rivets using a 5mm (3/16") drill bit. Rivet the catch block in place.

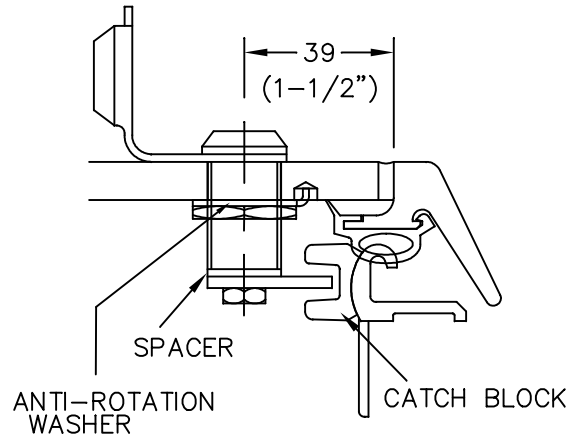
For Drawings See Reverse (B5677-C)

LEWMAR

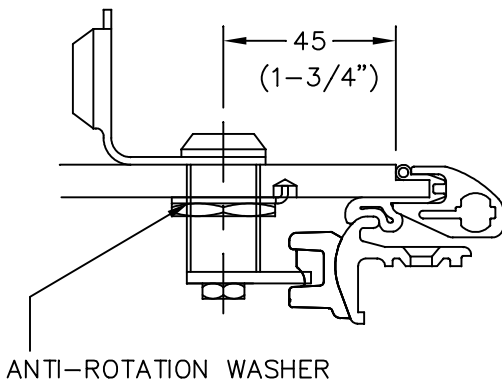
RETRO FIT LOCK INSTRUCTIONS



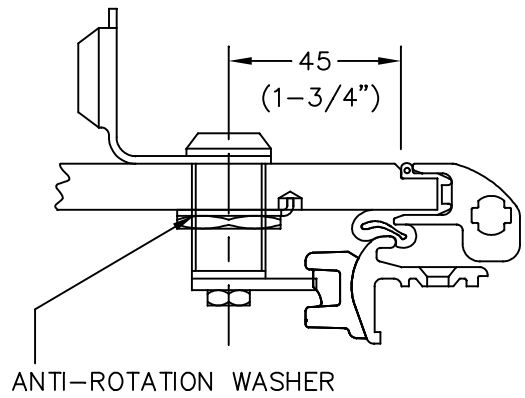
ROLLSTOP AND OCEAN SZ 00 TO 40



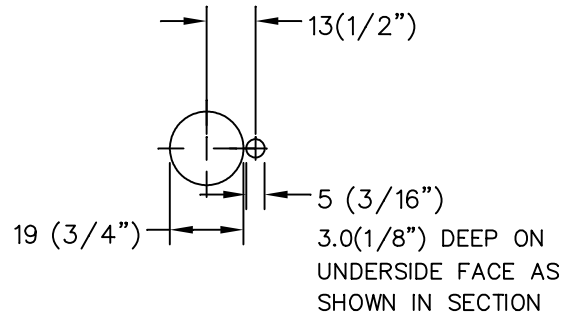
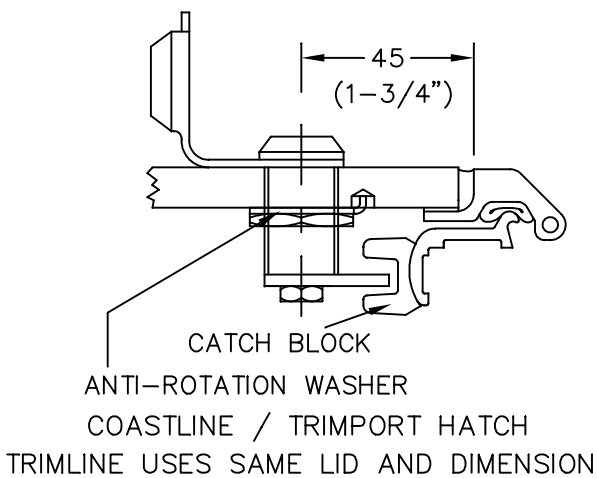
ROLLSTOP AND OCEAN SZ 44 AND ABOVE



LOW PROFILE HATCH



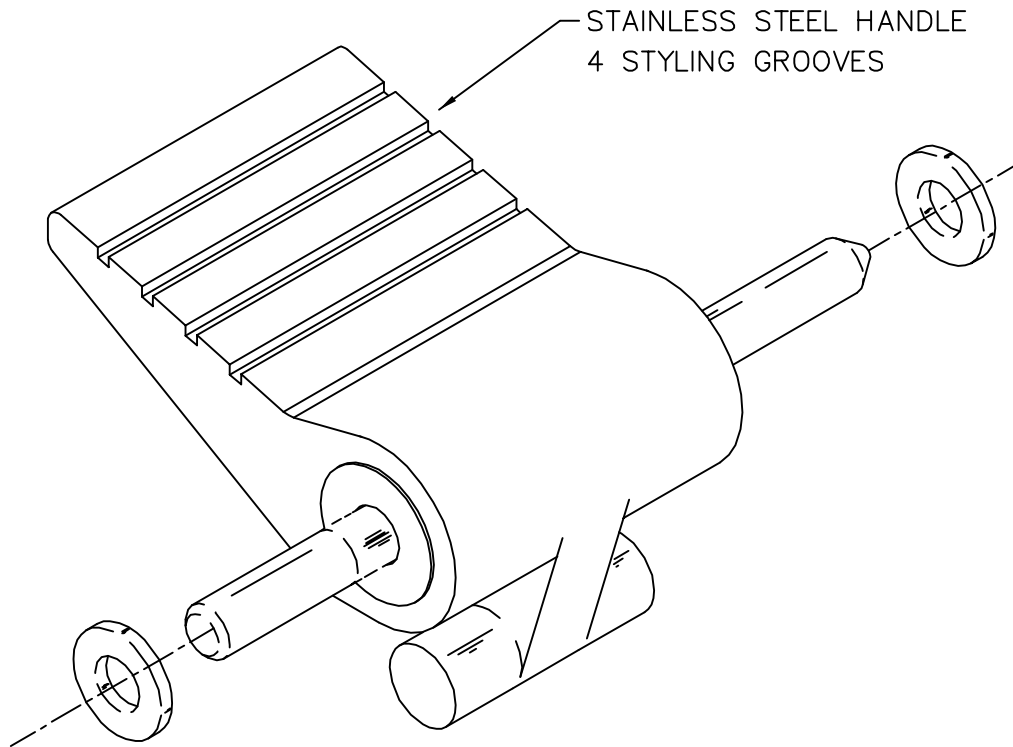
MEDIUM PROFILE HATCH



DRILLING DETAILS

FOR TEXT SEE REVERSE (B5677-B)

LEWMAR



PART	KIT No.
SHORT HANDLE 4 STYLING GROOVES	
LONG HANDLE 5 STYLING GROOVES	360520999

ATLANTIC PORTLIGHT SPARE PARTS

STAINLESS HANDLES

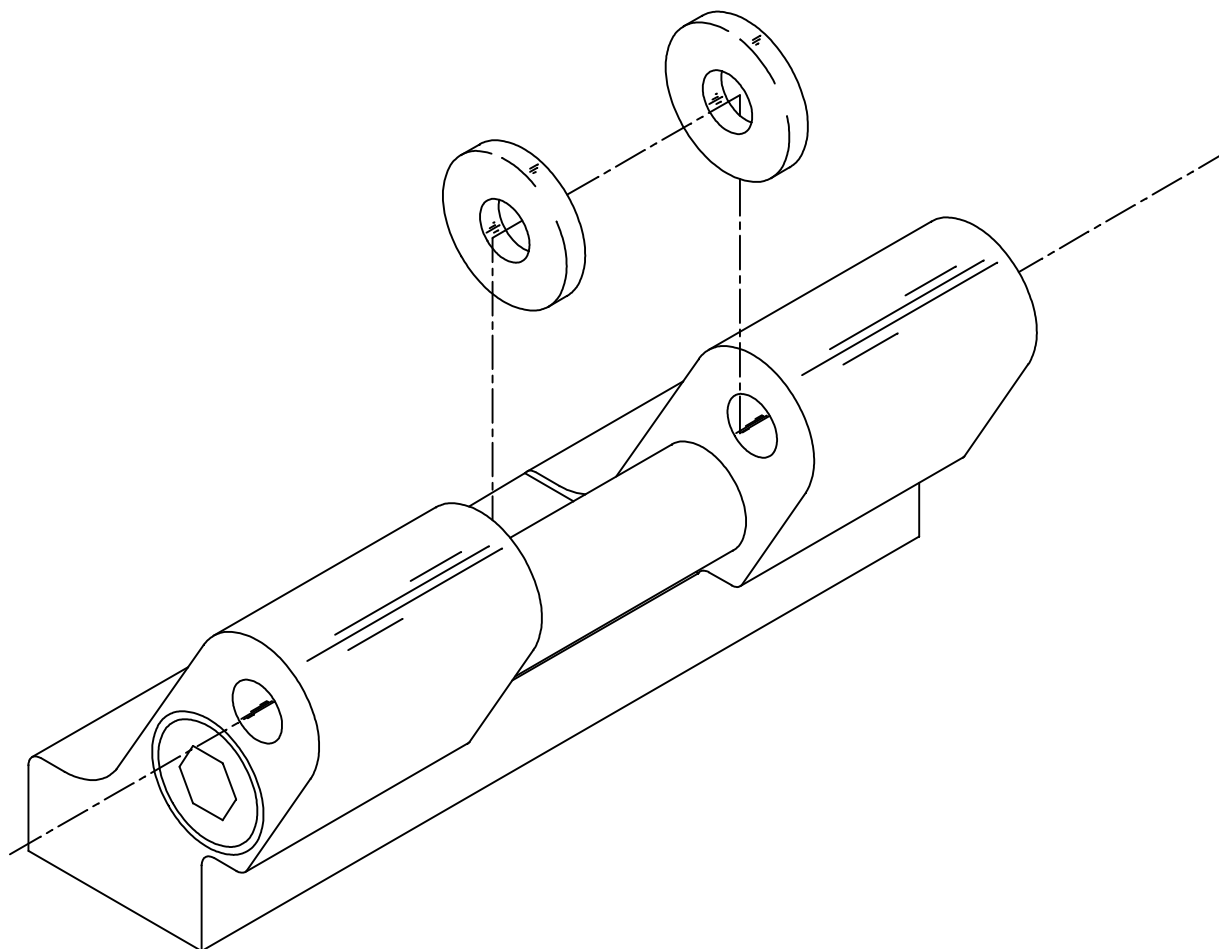
ISSUE

1.4

DATE

18-AUG-03

LEWMAR



KIT No.

3605229Y9

REFER TO TABLE 'Y' FOR COLOUR VARIATIONS

ATLANTIC PORTLIGHT SPARE PARTS

HINGE KITS

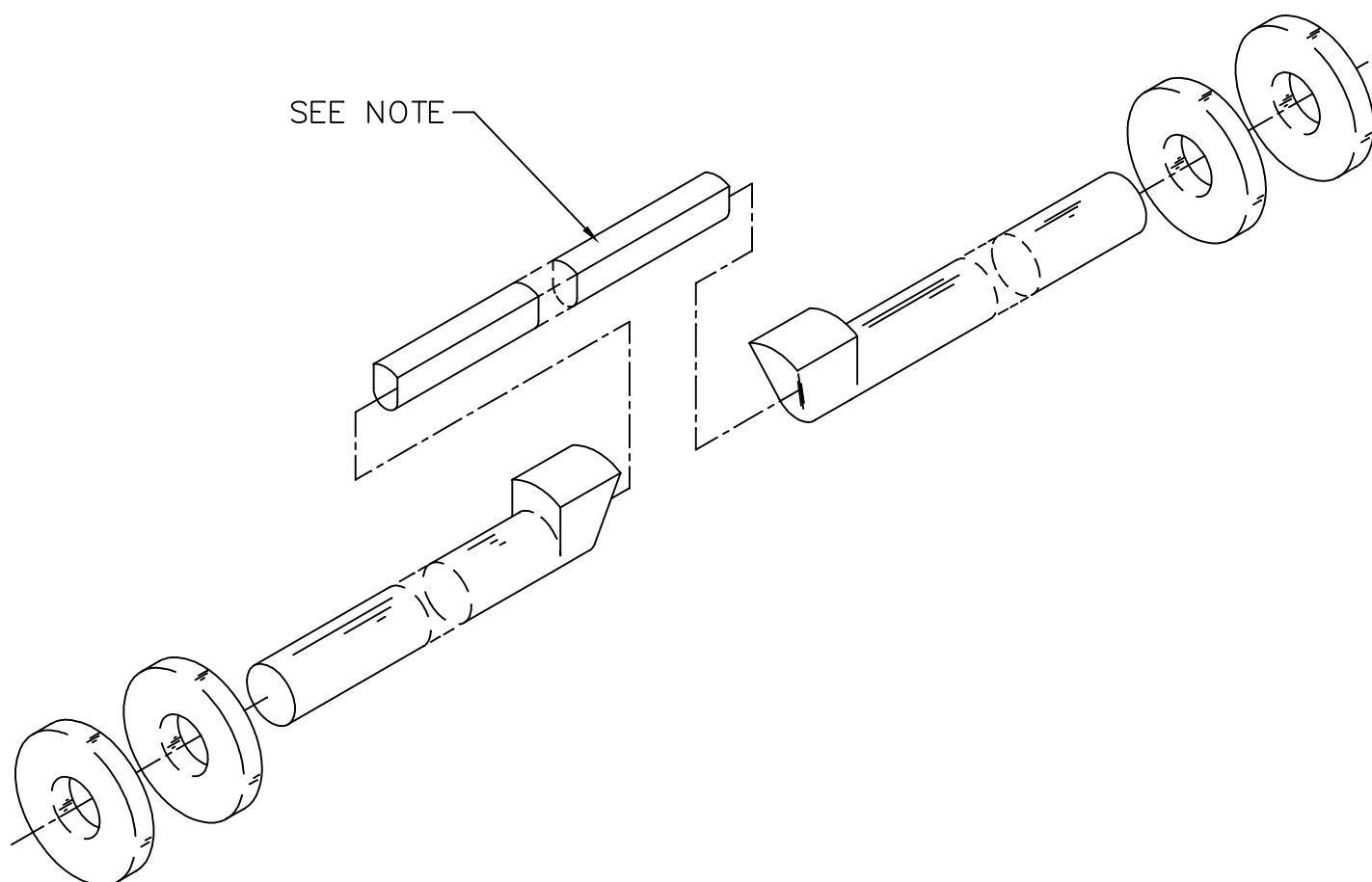
ISSUE

1.1

DATE

5.10.94

LEWMAR



KIT No.	PORTLIGHT	OVERALL SIZE REF.
360524999	SIZE 10	174 x 304
360525999	ALL OTHER SIZES	—

HINGE PLUG IS CUT TO LENGTH AT ASSEMBLY

ATLANTIC PORTLIGHT SPARE PARTS

HINGE KITS

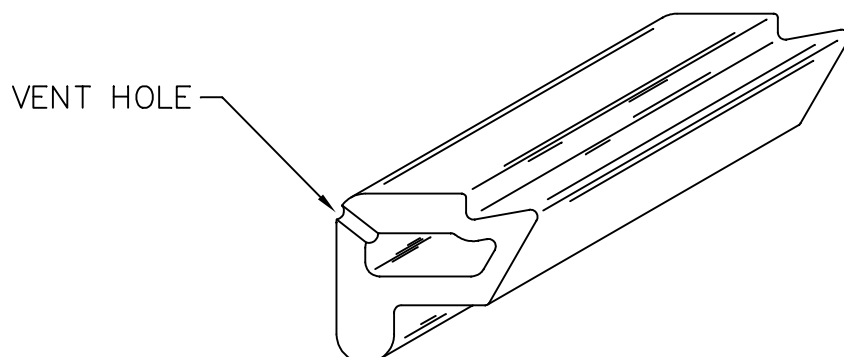
ISSUE

1.1

DATE

5.10.94

LEWMAR



KIT No.	PORTLIGHT	OVERALL SIZE REF
360526999	SIZE 10	174 x 304
360527999	SIZE 30	200 x 400
360528999	SIZE 32	200 x 400 R END
360790999	SIZE 40	200 x 480
360791999	SIZE 52	241 X 559
360792999	SIZE 60	200 x 600
360793999	SIZE 64	200 x 650

INSTRUCTIONS

Items required for seal replacement:

solvent based Contact adhesive for fixing seal into frame.

- 1 Remove the old seal by starting to lift the seal in one place and then pull it off all the way around.
- 2 Remove any excessive adhesive remaining in the seal channel, taking care not to damage the frame.
- 3 Apply the contact adhesive sparingly all round the frame channel and firmly press the seal into the frame, ensuring that the seal vent hole is positioned adjacent to a handle catch position.
- 4 Check the seal is pushed fully into the frame channel all the way around.

ATLANTIC PORTLIGHT SPARE PARTS

SEAL

ISSUE

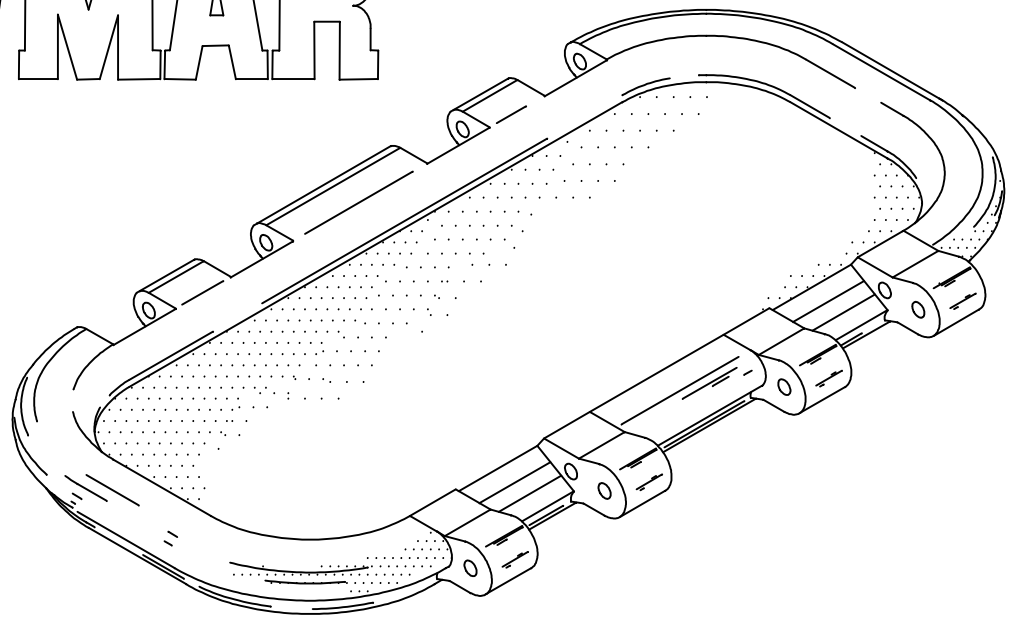
1.3

DATE

2.12.97

LEWMAR

B5692-3



X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

Mk.1 KIT No.	Mk.2 KIT No.	P'LIGHT	OVERALL SIZE REF
360532XY9	361029XY9	SIZE 10	174 x 304
360533XY9	361030XY9	SIZE 30	200 x 400
360534XY9	361031XY9	SIZE 32	200 x 400 R END
360684XY9	361032XY9	SIZE 40	200 X 480
360685XY9	361033XY9	SIZE 52	241 X 559
360686XY9	361034XY9	SIZE 60	200 X 600
360687XY9	361035XY9	SIZE 64	200 X 650

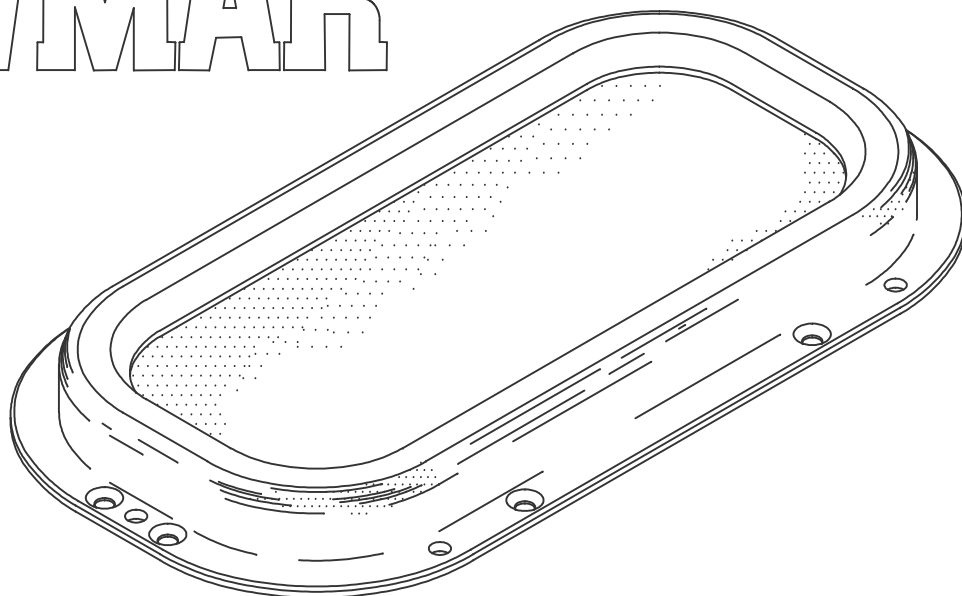
ATLANTIC PORTLIGHT SPARE PARTS

WINDOW KIT

ISSUE 1.3

DATE 02-JUN-00

LEWMAR



KIT No.	PORTLIGHT	OVERALL SIZE
360535XY9	SIZE 11	174 x 304
360536XY9	SIZE 31	200 x 400
360537XY9	SIZE 33	200 x 400 R END
360794XY9	SIZE 41	200 X 480
360795XY9	SIZE 53	241 x 559
360796XY9	SIZE 61	200 x 600
360797XY9	SIZE 65	200 x 650

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

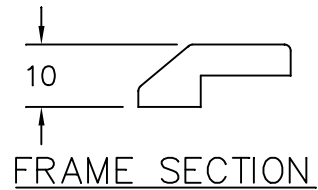
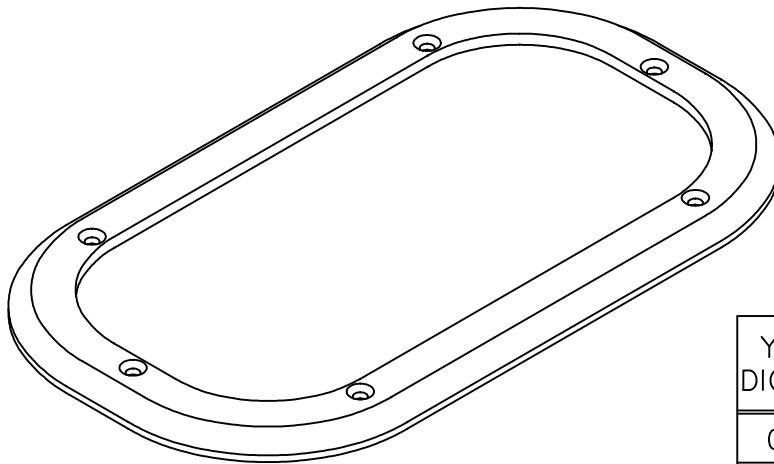
ATLANTIC FIXEDLIGHT SPARE PARTS

WINDOW KITS

ISSUE 1.3

DATE 26-MAY-00

LEWMAR



Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	PORTLIGHT	OVERALL SIZE REF
3661115Y9	SIZE 11	174 x 304
3661315Y9	SIZE 31	200 x 400
3661335Y9	SIZE 33	200 x 400 R END
3661415Y9	SIZE 41	200 x 480
3661535Y9	SIZE 53	241 x 599
3661615Y9	SIZE 61	200 x 600
3661655Y9	SIZE 65	200 x 650

ATLANTIC FIXEDLIGHT SPARE PARTS

INNER FRAME KITS

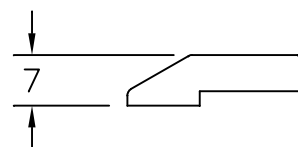
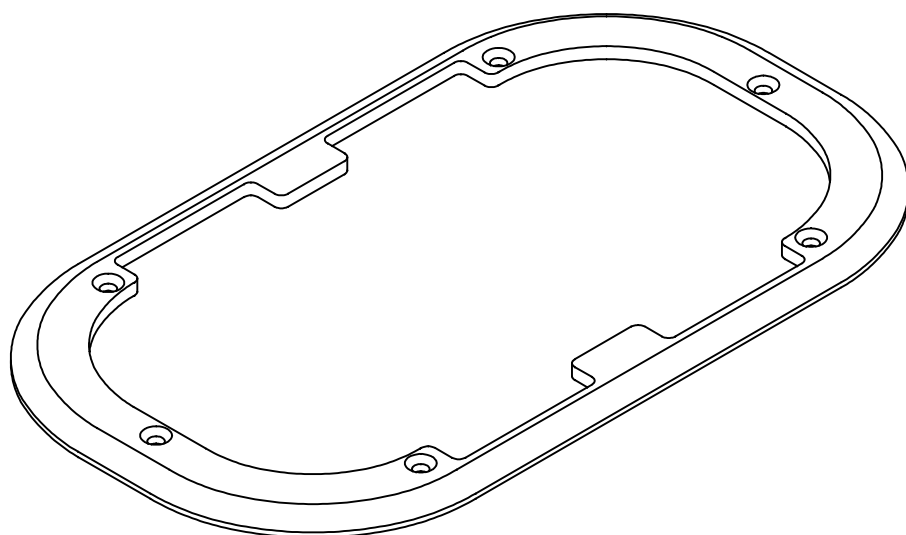
ISSUE

1.3

DATE

31-MAY-00

LEWMAR



FRAME SECTION

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	PORTLIGHT	OVERALL SIZE
3661101Y9	SIZE 10	174 x 304
3661301Y9	SIZE 30	200 x 400
3661321Y9	SIZE 32	200 x 400 R END
3661401Y9	SIZE 40	200 x 480
3661521Y9	SIZE 52	241 x 559
3661601Y9	SIZE 60	200 x 600
3661641Y9	SIZE 64	200 x 650

ATLANTIC PORTLIGHT SPARE PARTS

INNER FRAME KITS

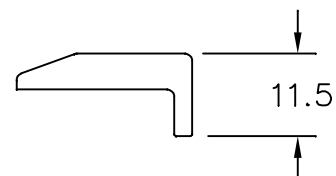
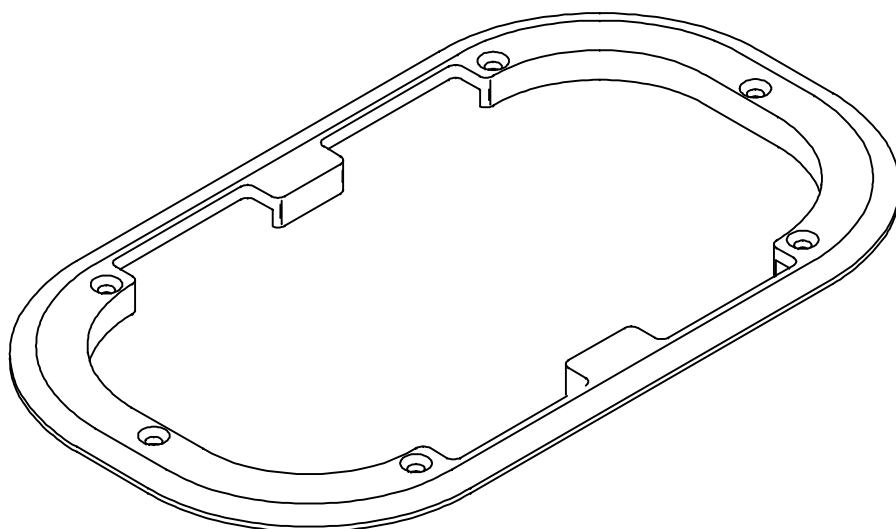
ISSUE

1.3

DATE

02-JUN-00

LEWMAR



FRAME SECTION

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	PORTLIGHT	OVERALL SIZE
3661104Y9	SIZE 10	174 x 304
3661304Y9	SIZE 30	200 x 400
3661324Y9	SIZE 32	200 x 400 R END
3661404Y9	SIZE 40	200 x 480
3661524Y9	SIZE 52	241 x 559
3661604Y9	SIZE 60	200 x 600
3661644Y9	SIZE 64	200 x 650

ATLANTIC PORTLIGHT SPARE PARTS

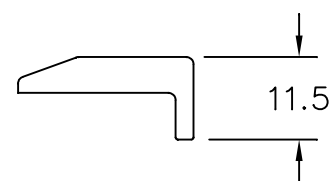
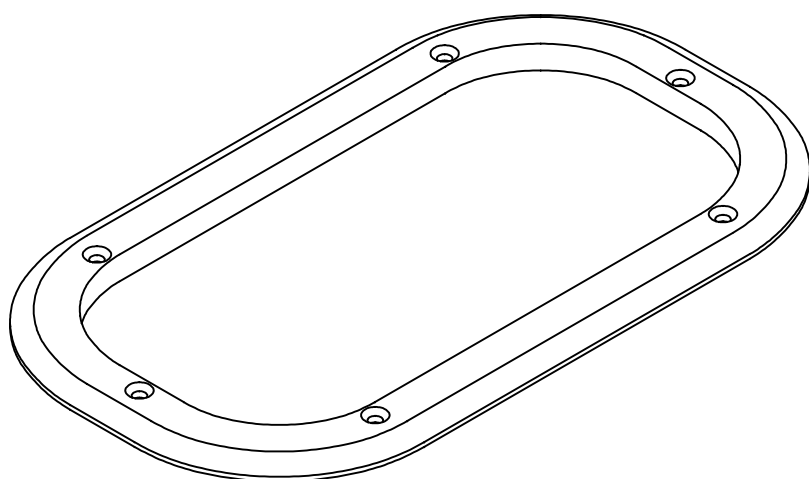
INNER FRAME KITS

ISSUE

1.4

DATE 20-DEC-00

LEWMAR



FRAME SECTION

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	PORTLIGHT	OVERALL SIZE REF
3661114Y9	SIZE 11	174 x 304
3661314Y9	SIZE 31	200 x 400
3661334Y9	SIZE 33	200 x 400 R END
3661414Y9	SIZE 41	200 x 480
3661534Y9	SIZE 53	241 x 559
3661614Y9	SIZE 61	200 x 600
3661654Y9	SIZE 65	200 x 650

ATLANTIC FIXEDLIGHT SPARE PARTS

INNER FRAME KITS

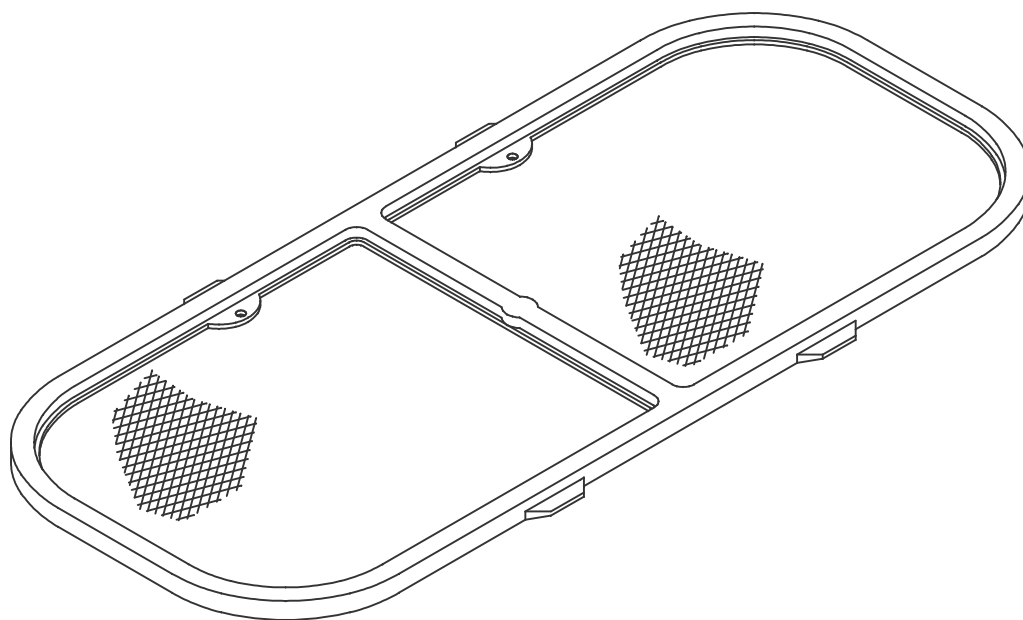
ISSUE

1.2

DATE

13.8.96

LEWMAR



KIT No.	PORTLIGHT	OVERALL SIZE
367110916	SIZE 10	174 x 304
367130916	SIZE 30	200 x 400
367132916	SIZE 32	200 x 400 R END
367140916	SIZE 40	200 x 480
367152916	SIZE 52	241 x 559
367160916	SIZE 60	200 x 600
367164916	SIZE 64	200 x 650

ATLANTIC PORTLIGHT SPARE PARTS

FLYSCREEN

ISSUE

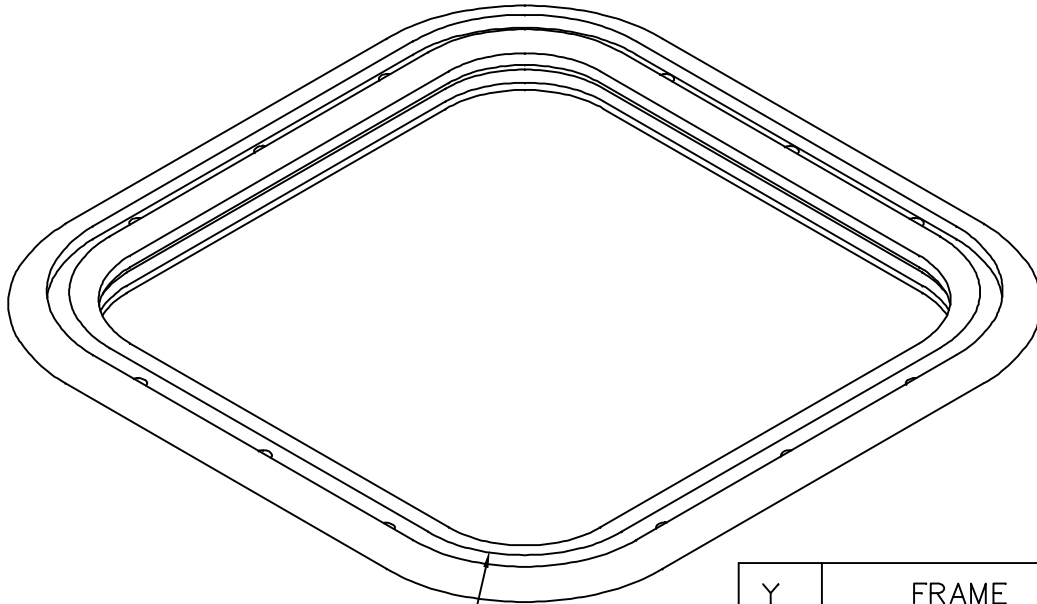
1.2

DATE

14.8.96

LEWMAR

B5757-3



SEAL INSTALLED

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH	HATCH OVERALL SIZE REF.
3606059Y9	SIZE 40	476 X 476
3606069Y9	SIZE 55	530 X 530
3606089Y9	SIZE 57	540 x 540
3606079Y9	SIZE 60	577 x 577
ROUND HATCHES		
3606589Y9	SIZE 13	364 DIA
3606069Y9	SIZE 22	577 DIA

CONCEPT HATCH

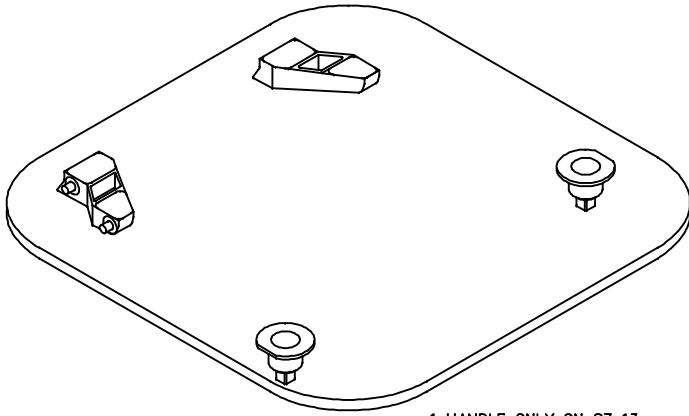
MAIN FRAME

ISSUE 3

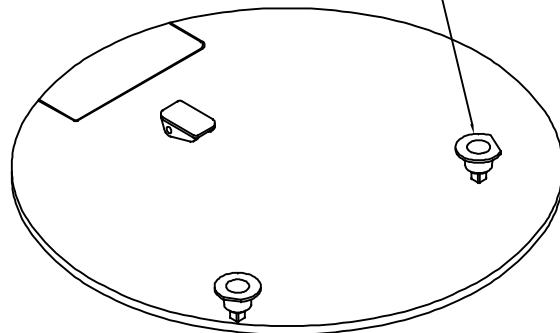
DATE 13-DEC-00

LEWMAR

B5758-3



1 HANDLE ONLY ON SZ 13



X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

'Z' DIGIT	MOULDING COLOUR
0	STANDARD GREY

KIT No.	HATCH	HATCH OVERALL SIZE REF.
360611X9Z	SIZE 40	476 X 476
360612X9Z	SIZE 55	530 X 530
360614X9Z	SIZE 57	540 x540
360613X9Z	SIZE 60	577 x 577
ROUND SIZES		
360658X9Z	SIZE 13	364 DIA
360660X9Z	SIZE 22	577 DIA

CONCEPT HATCH

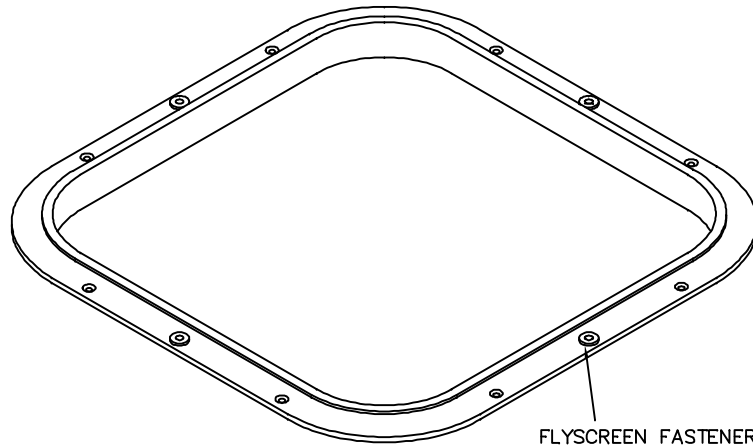
ACRYLICS

ISSUE 3

DATE 13-DEC-00

LEWMAR

B5759-3



FLYSCREEN FASTENERS
INSTALLED

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

'Z' DIGIT	MOULDING COLOUR
0	STANDARD GREY

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH	HATCH OVERALL SIZE REF.
3606179YZ	SIZE 40	476 X 476
3606189YZ	SIZE 55	530 X 530
3606209YZ	SIZE 57	540 X 540
3606199YZ	SIZE 60	577 x 577
ROUND SIZES		
3606649YZ	SIZE 13	364 DIA
3606699YZ	SIZE 22	577 DIA

CONCEPT HATCH

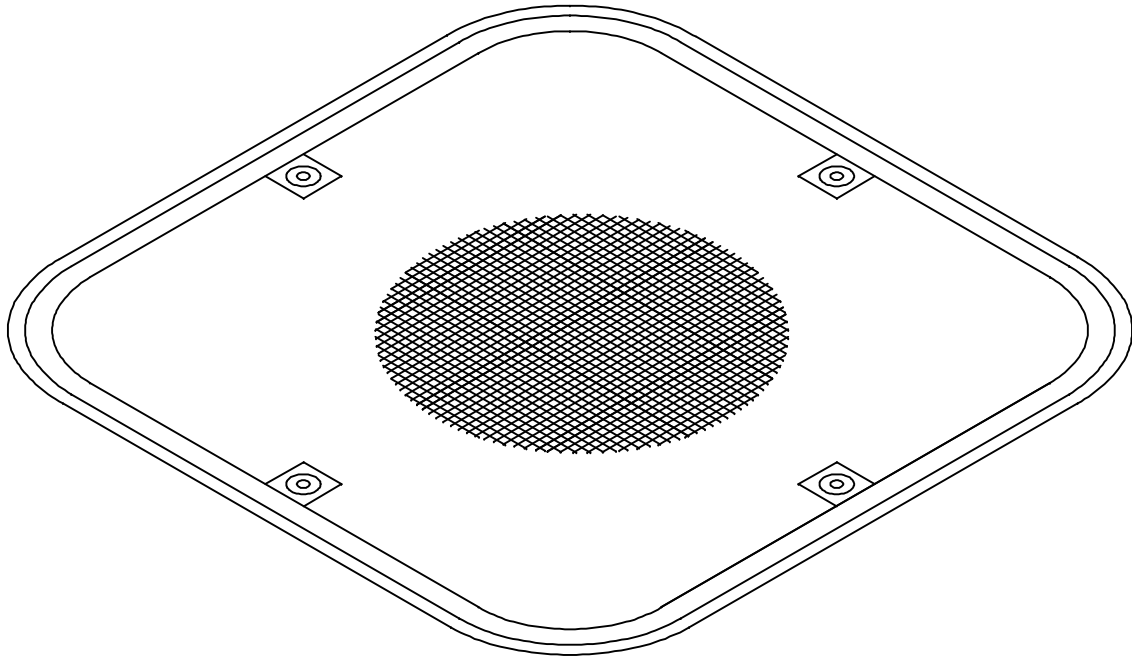
TRIM FRAME

ISSUE 3

DATE 14-DEC-00

LEWMAR

B5760-4



KIT No.	HATCH	QUANTITY	HATCH OVERALL SIZE REF.
367240916	SIZE 40	5	476 X 476
367255916	SIZE 55	5	530 X 530
367257916	SIZE 57	5	540 X 540
367260916	SIZE 60	5	577 x 577
ROUND SIZES			
367213916	SIZE 13	1	364 DIA
367222916	SIZE 22	1	577 DIA

CONCEPT HATCH

FLYSCREENS

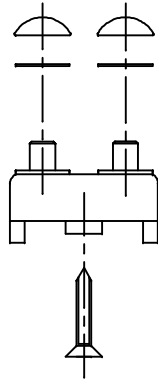
ISSUE 4

DATE 14-DEC-00

LEWMAR

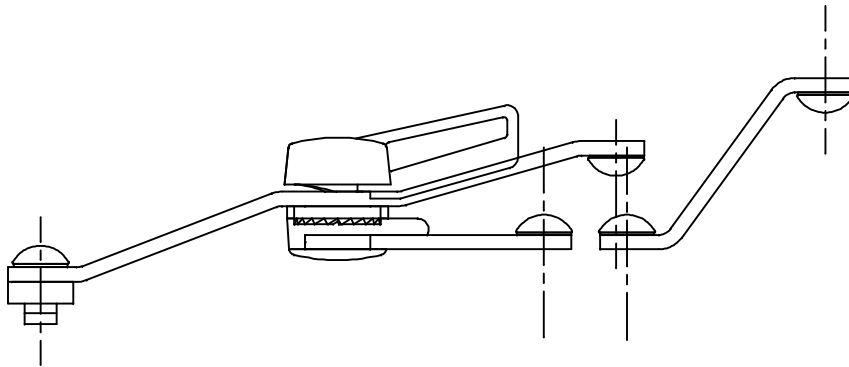
B5761-2

LOWER PIVOT KIT



KIT No.	QUANTITY PER KIT
360635990	2 SET

LINKAGE PIN



RIGHT HAND AS DRAWN

KIT No.	TYPE	HANDING NOTATION IS TO VIEW HATCH FROM ON DECK AT HANDLE EDGE
360629900	LEFT HAND	
360630900	RIGHT HAND	

RECTANGULAR CONCEPT HATCH

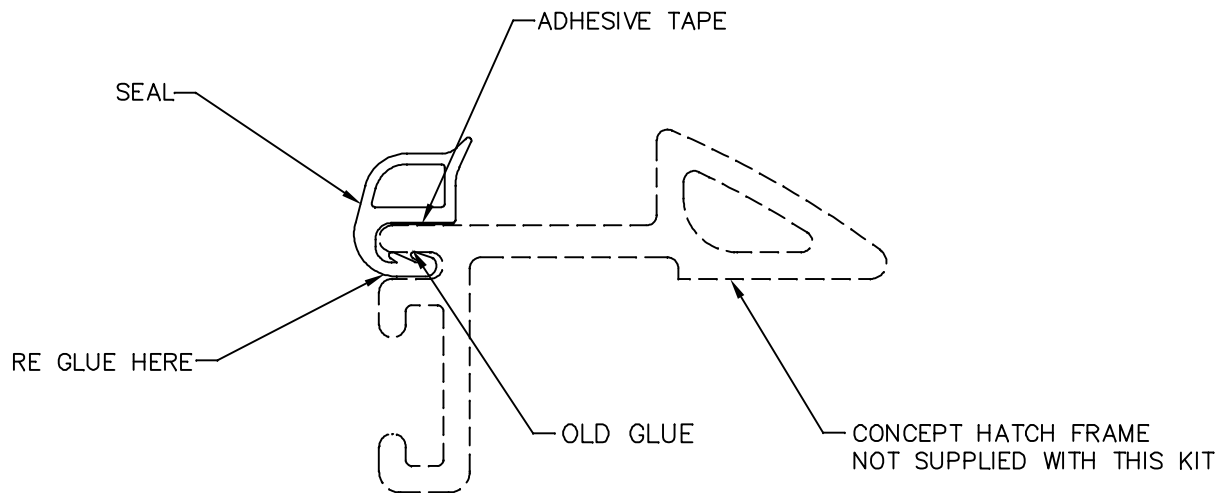
HINGE

ISSUE 2

DATE 15-DEC-00

LEWMAR

B5767-3



- 1) PULL OLD SEAL AWAY FROM ADHESIVE TAPE
- 2) SEPARATE THE GLUE ON THE OLD SEAL WITH A SHARP KNIFE
- 3) WITH THE OLD SEAL REMOVED CLEAN UP THE ALLOY FRAME
BE CAREFUL NOT TO DAMAGE THE FINISH ON THE ALLOY FRAME
- 4) STICK THE NEW ADHESIVE TAPE ON TO THE ALLOY FRAME
DO NOT REMOVE THE YELLOW BACKING FROM THE TOP OF THE TAPE
- 5) LOCATE THE SEAL ON THE ALLOY FRAME
- 6) LIFT ONE EDGE OF THE SEAL AND REMOVE THE YELLOW BACKING
WORK AROUND THE HATCH PUSHING THE SEAL ONTO THE TAPE
- 7) RUN A BEAD OF SUPER/CRAZY GLUE BETWEEN THE LOWER EDGE
OF THE SEAL AND THE FRAME

KIT No.	HATCH	HATCH O-ALL SIZE
360640999	40	476 x 476
360641999	55	529 x 529
360643999	57	540 x 540
360642999	60	577 x 577
360646999	13	364 DIA.
360648999	22	577 DIA.

CONCEPT HATCH

SEAL & TAPE KIT

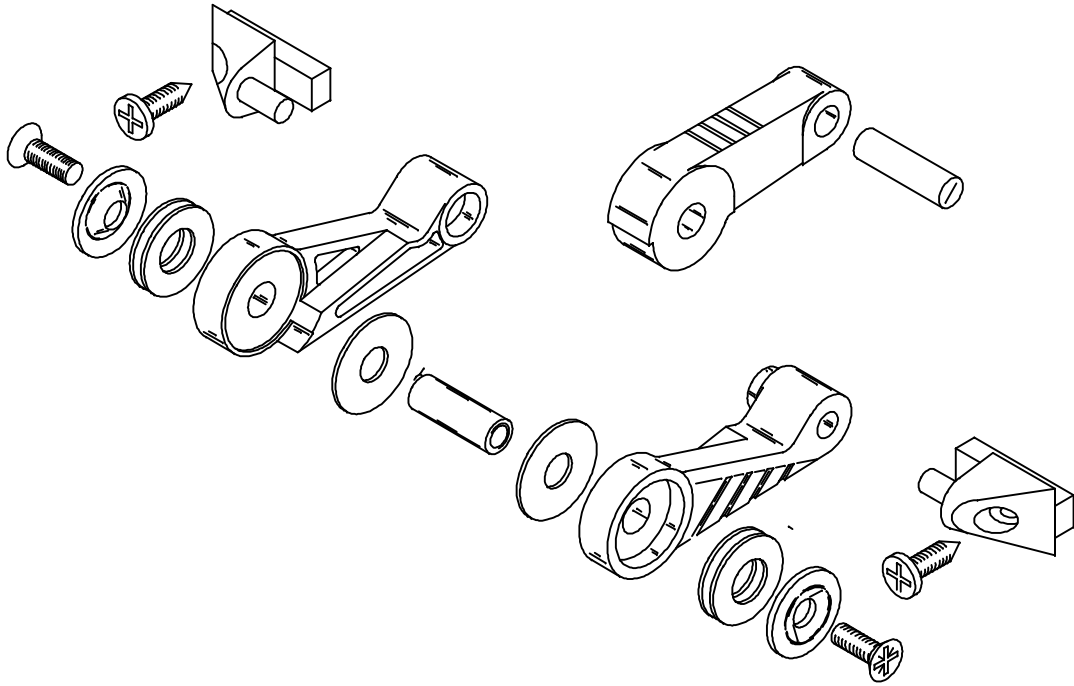
ISSUE 3

DATE 27/03/98

SCALE 1:1

DRAWN B.E.C.

LEWMAR



KIT No.	USED ON
360638990	CONCEPT HATCHES

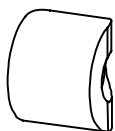
CIRCULAR CONCEPT HATCH

FRICITION LEVER KITS

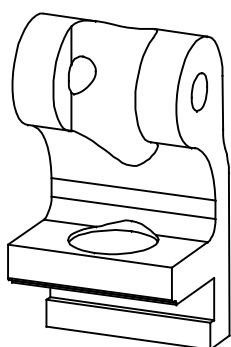
ISSUE 1

DRAWN 20-DEC-00

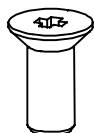
LEWMAR



2 x STANDARD GREY &
2 x BENEATEAU GREY MOLDINGS



2 x HINGES



2 x M5 X 12 MACHINE SCREWS

KIT NUMBER
360785099

PORTLIGHT SIZE	NUMBER OF CATCHES
0, 1, 1RE, 2, 3, 7RE	2
4, 5	3
4L, 4R	4

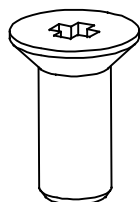
NEW STANDARD PORTLIGHT SPARE PARTS

SCREW ON HINGE

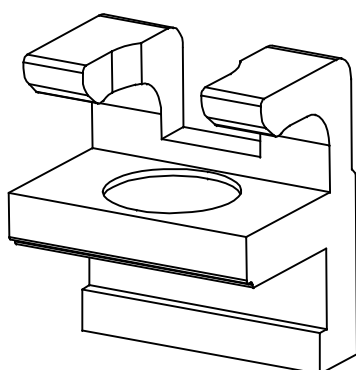
ISSUE 1.0

DATE 13-AUG-01

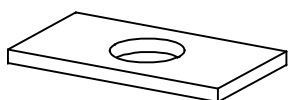
LEWMAR



2 x M5 x 12 MACHINE SCREW



2 x CATCH BLOCK



2 x SPACER

KIT
NUMBER

360785990

PORTLIGHT SIZE	NUMBER OF CATCHES
0, 1, 1RE, 2, 3, 7RE	2
4, 5	3
4L, 4R	4

NEW STANDARD PORTLIGHT SPARE PARTS

CATCH BLOCK KIT

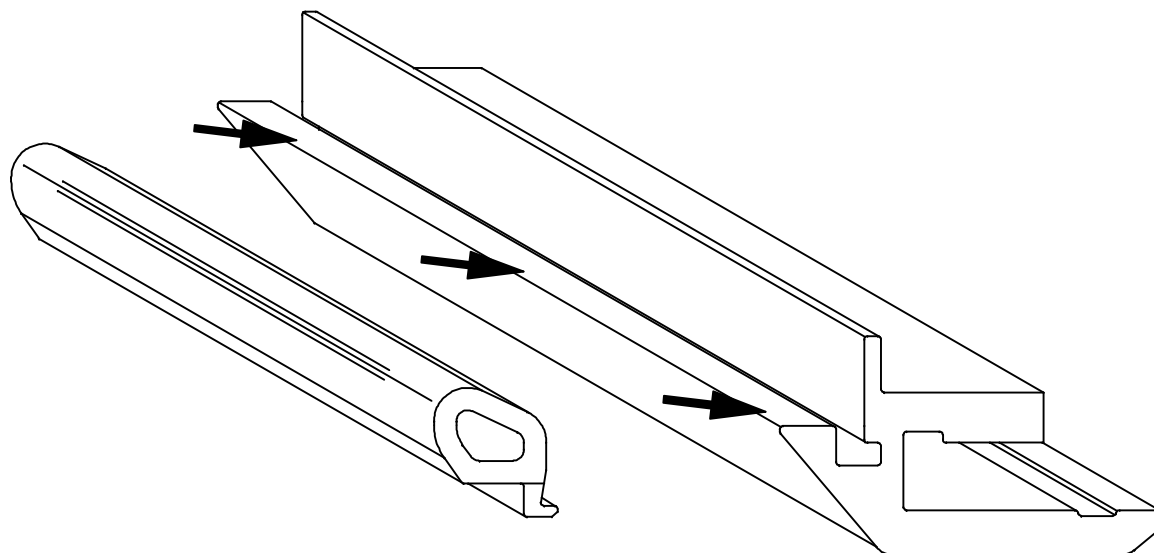
ISSUE

1.0

DATE

26-MAR-01

LEWMAR



KIT NUMBER	PORTLIGHT SIZE	PORTLIGHT OVERALL SIZE
360758999	0	176 x 323
360759999	1	191 x 367
361015999	1 RND END	191 x 367
360760999	2	176 x 425
360761999	3	191 x 449
360762999	4	191 x 646
360763999	4L & 4R	195 x 708
360765999	5	264 x 449
360835999	6	146 x 449
361010999	7 RND END	191 x 425

NEW STANDARD PORTLIGHT SPARE PARTS

SEAL KITS

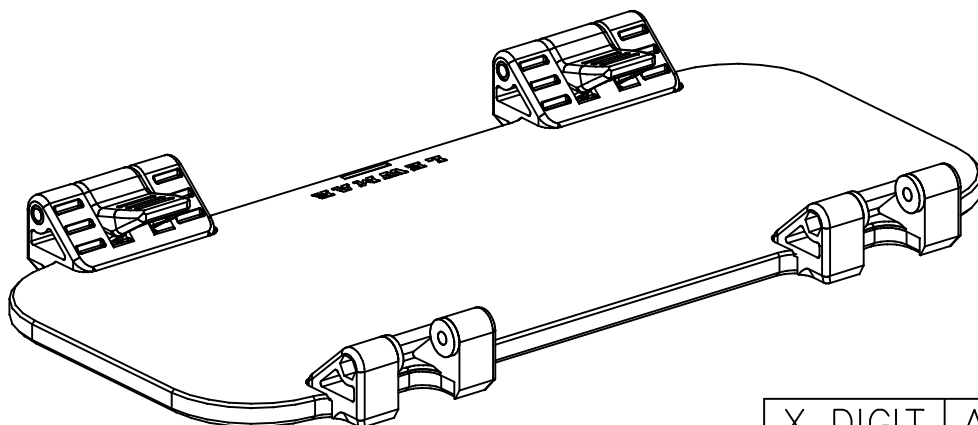
ISSUE

1.4

DATE

20-DEC-00

LEWMAR



'Z' DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

KIT NUMBER	PORTLIGHT SIZE	PORTLIGHT OVERALL SIZE
360750XZ9	0	176 x 323
360751XZ9	1	191 x 367
361014XZ9	1 RND END	191 x 367
360752XZ9	2	176 x 425
360753XZ9	3	191 x 449
360754XZ9	4	191 x 646
360755XZ9	4L	195 x 708
360756XZ9	4R	264 x 449
360757XZ9	5	264 x 449
360834XZ9	6	146 x 449
361009XZ9	7 RND END	191 x 425

HUNTER (USA) USE CHAMFERED ACRYLIC NOT SUPPLIED ON THESE P/N'S

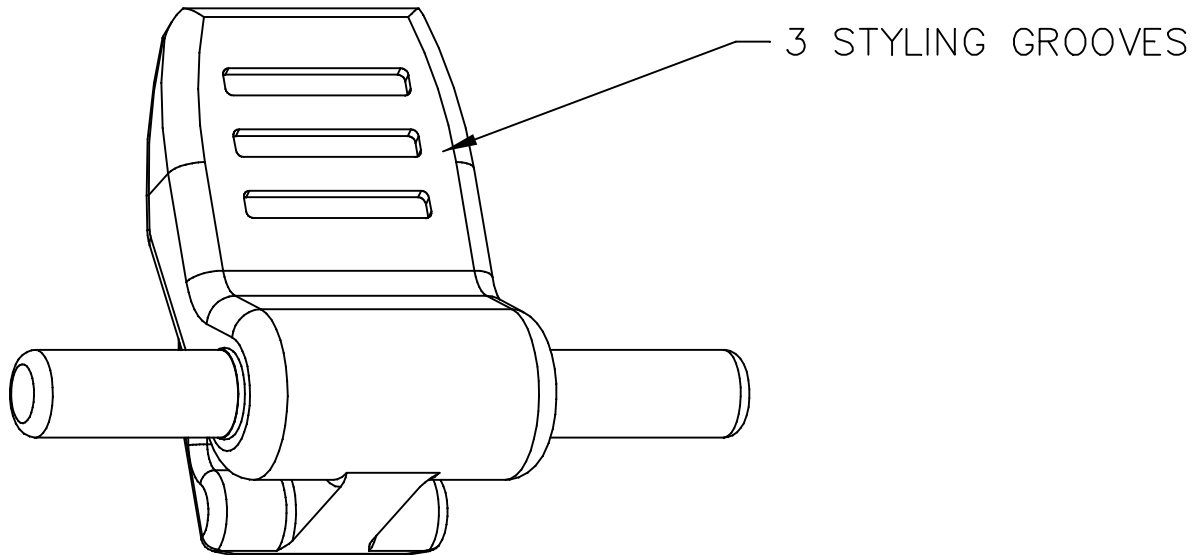
NEW STANDARD PORTLIGHT SPARE PARTS

WINDOW KITS

ISSUE 1.4

DATE 15-JUN-00

LEWMAR



FITTING INSTRUCTIONS

A small G-clamp should be used to push the pin home. One side of the G-clamp should be located on the end of the pin and the other on the end of the moulding which is glued to the acrylic. This is done to minimise the load placed on the glued joint.

KIT NUMBER	HANDLE MATERIAL
360767Z99	PLASTIC
361039999	METAL

NOTES

New Standard Portlights use only plastic handles.
Atlantic Portlights use plastic or metal handles

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY

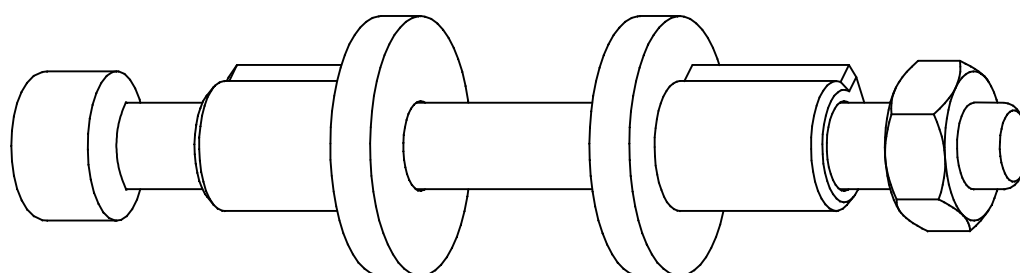
NEW STANDARD AND ATLANTIC Mk.2
PORTLIGHT SPARE PARTS

HANDLE KIT

ISSUE 1.1

DATE 15-Jun-00

LEWMAR



Fastening is a standard M4 x 45 Cap Head Socket
Machine Screw & Nyloc Nut In A2 Stainless Steel

KIT NUMBER
360766Z99

Z = 0 FR STANDARD GREY AND 1 FOR BENETEAU GREY

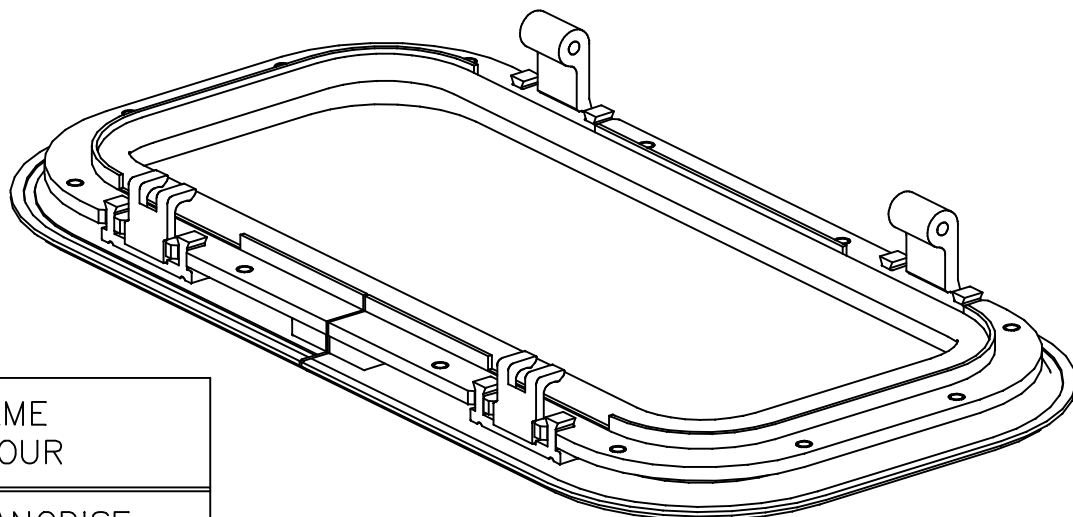
NEW STANDARD PORTLIGHT SPARE PARTS

HINGE PIN KIT

ISSUE 1.1

DATE 15-JUN-00

LEWMAR



Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT NUMBER	PORTLIGHT SIZE	PORTLIGHT OVERALL SIZE
360720Y99	0	176 x 323
360721Y99	1	191 x 367
361011Y99	1 RND END	191 x 367
360722Y99	2	176 x 425
360723Y99	3	191 x 449
360724Y99	4	191 x 646
360725Y99	4L	195 x 708
360726Y99	4R	264 x 449
360727Y99	5	264 x 449
360831Y99	6	146 x 449
361006Y99	1 RND END	191 x 425

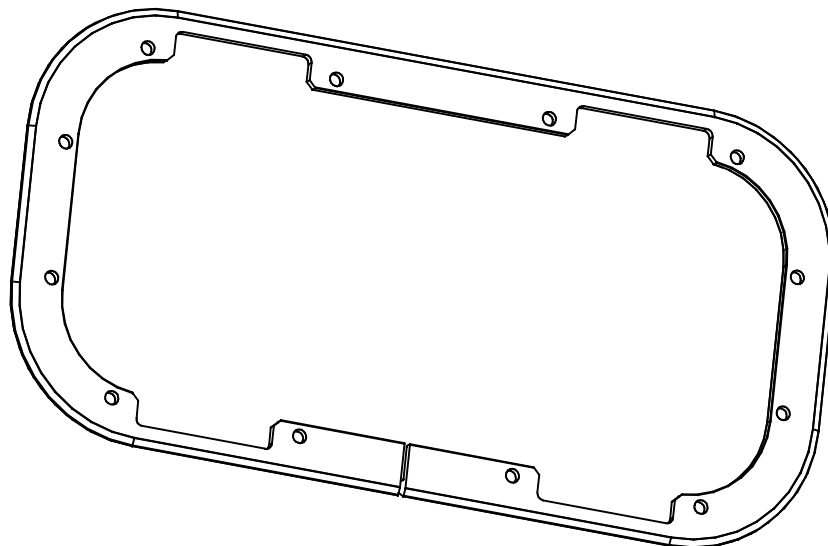
NEW STANDARD PORTLIGHT SPARE PARTS

OUTER FRAMES

ISSUE 1.3

DATE 15-JUN-00

LEWMAR



KIT NUMBER	PORTLIGHT SIZE	PORTLIGHT OVERALL SIZE
360735099	0	176 x 323
360736099	1	191 x 367
361013099	1 RND END	191 x 367
360737099	2	176 x 425
360738099	3	191 x 449
360739099	4	191 x 646
360740099	4L	195 x 708
360741099	4R	264 x 449
360742099	5	264 x 449
360833099	6	146 x 449
361008099	7 RND END	191 x 425

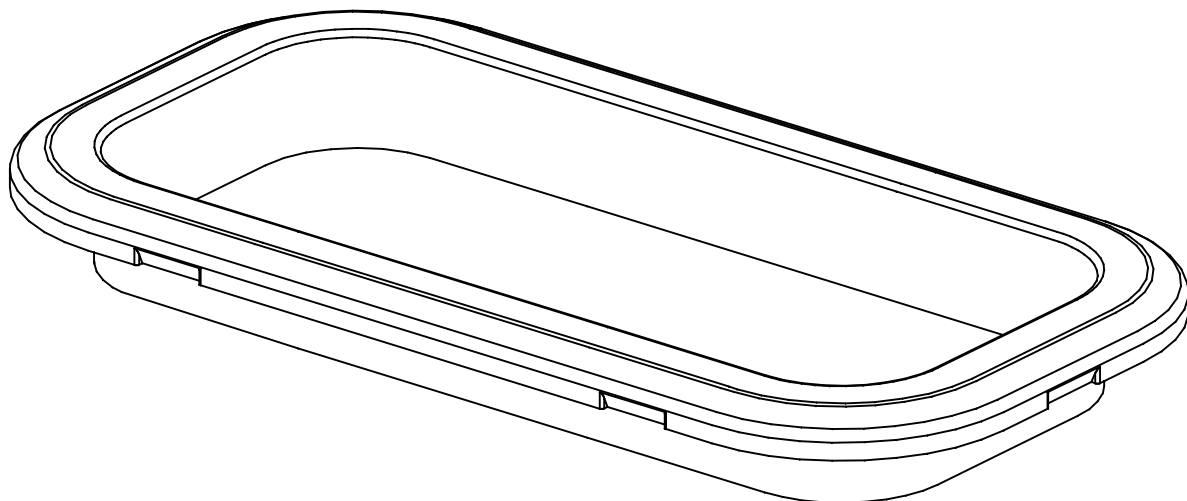
NEW STANDARD PORTLIGHT
AND FIXEDLIGHT SPARE PARTS

CLAMP RINGS

ISSUE 1.3

DATE 15-JUN-00

LEWMAR



KIT NUMBER	FIXEDLIGHT SIZE	FIXEDLIGHT OVERALL SIZE
368301W39	0	176 x 323
368311W39	1	191 x 367
368317W39	1 RND END	191 x 367
368321W39	2	176 x 425
368331W39	3	191 x 449
368341W39	4	191 x 646
368345W39	4L	195 x 708
368343W39	4R	195 x 708
368351W39	5	264 x 449
368361W39	6	146 x 449
368377W39	7 RND END	191 x 425

W = 2 FOR WHITE AND 5 FOR IVORY

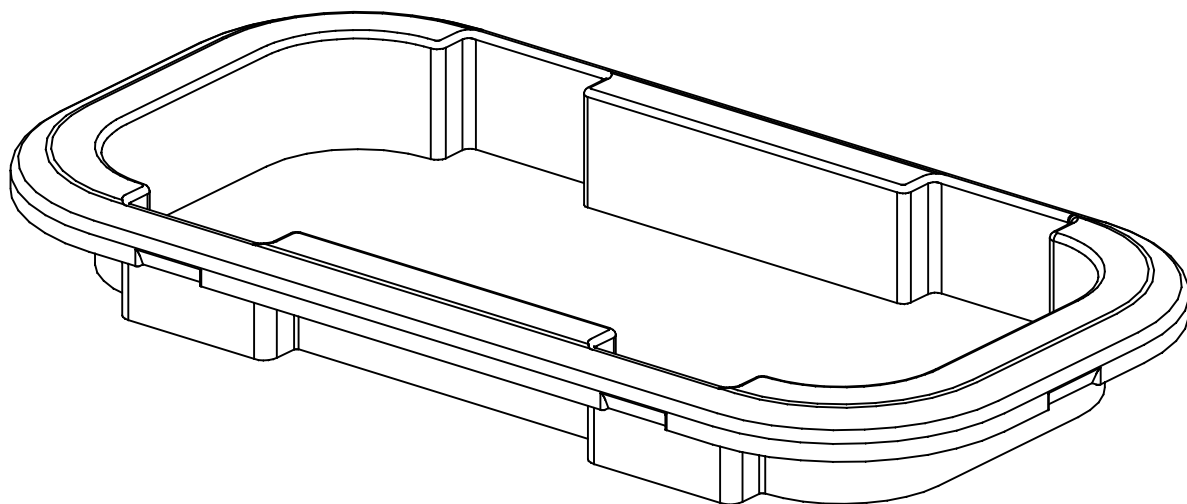
NEW STANDARD FIXEDLIGHT SPARE PARTS

TRIMS

ISSUE 1.3

DATE 15-JUN-00

LEWMAR



KIT NUMBER	PORTLIGHT SIZE	PORTLIGHT OVERALL SIZE
368302W39	0	176 x 323
368312W39	1	191 x 367
368318W39	1 RND END	191 x 367
368322W39	2	176 x 425
368332W39	3	191 x 449
368342W39	4	191 x 646
368346W39	4L	195 x 708
368344W39	4R	195 x 708
368352W39	5	264 x 449
368362W39	6	146 x 449
368378W39	7 RND END	191 x 425

REFER TO TABLE W FOR TRIM COLOUR VARIANTS

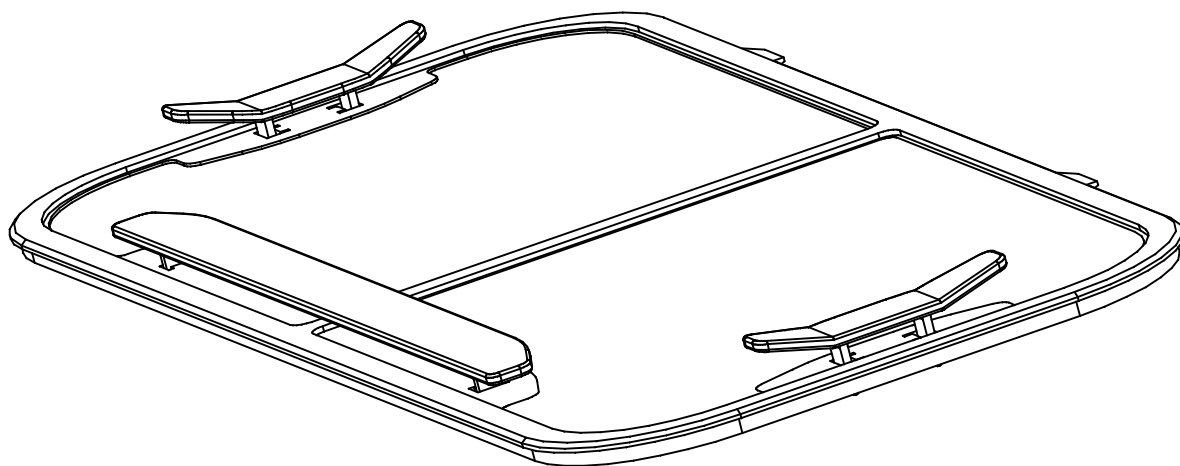
NEW STANDARD PORTLIGHT SPARE PARTS

TRIMS

ISSUE 1.3

DATE 15-JUN-00

LEWMAR



KIT NUMBER	PORTLIGHT SIZE	PORTLIGHT OVERALL SIZE
367302916	0	176 x 323
367312916	1	191 x 367
367318916	1 RND END	191 x 367
367322916	2	176 x 425
367332916	3	191 x 449
367342916	4	191 x 646
NONE	4L	195 x 708
NONE	4R	195 x 708
367352916	5	264 x 449
NONE	6	146 x 449
367378916	7 RND END	191 x 425

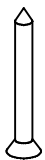
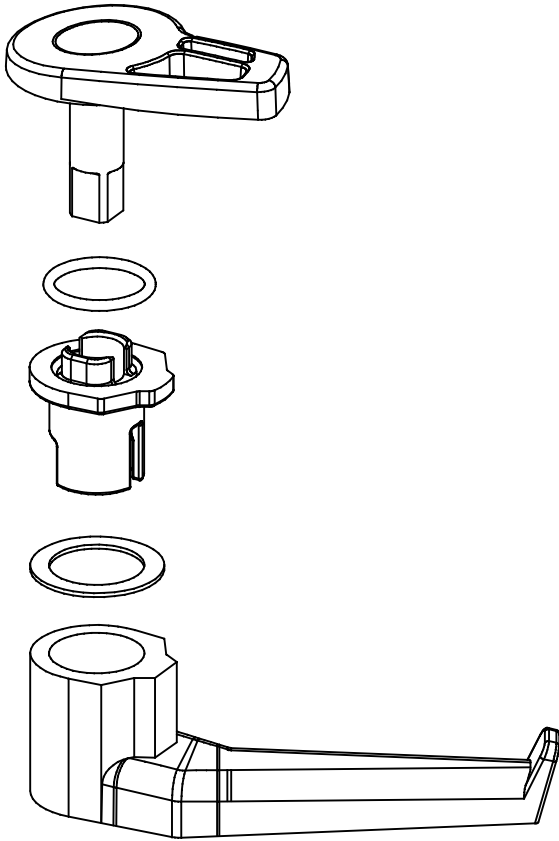
NEW STANDARD PORTLIGHT SPARE PARTS

FLYSCREENS

ISSUE 3

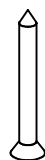
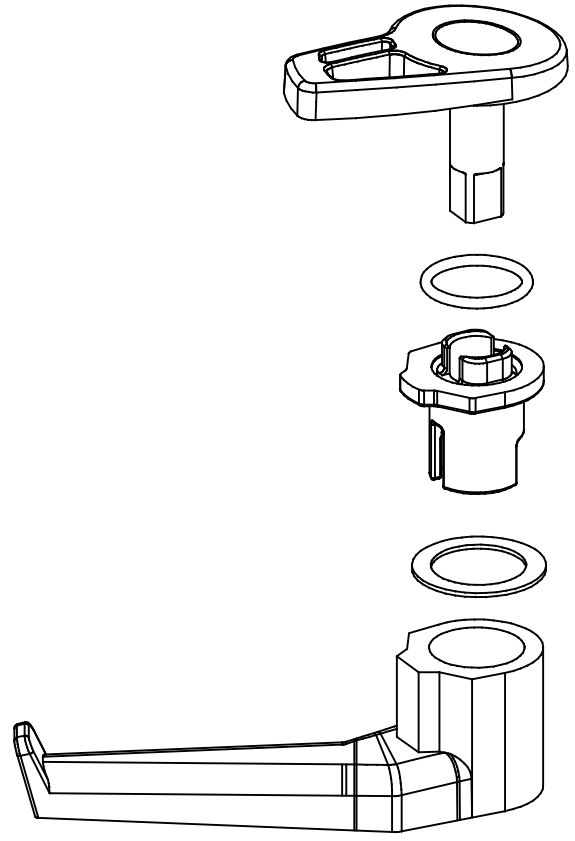
DATE 07-Sep-99

LEWMAR



RIGHT HAND

KIT No.	36092099Z
---------	-----------



LEFT HAND

KIT No.	36092199Z
---------	-----------

INSIDE HANDLES ARE MARKED "LH" & "RH" ABOVE THE CATCHES
 FOR OUTSIDE HANDLES ONLY SEE PAGE B5820
 Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY
 KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

LOW & MEDIUM PROFILE HATCH SPARES

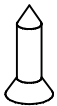
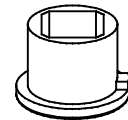
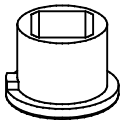
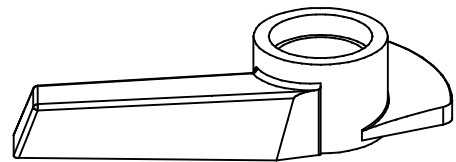
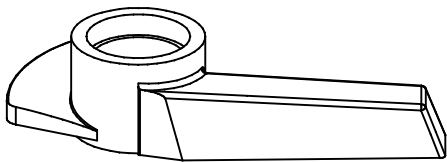
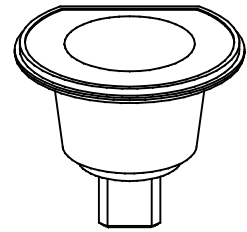
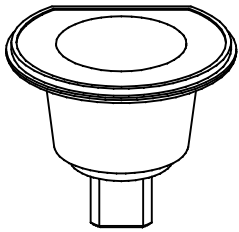
LARGE HANDLE KITS

ISSUE 3.0

DATE 25-JUL-00

LEWMAR

Moulding glued to acrylic
not supplied in kit



LEFT HAND

RIGHT HAND
USED ON HATCHES
WITH ONLY 1 HANDLE

KIT No. 36092299Z

KIT No. 36092399Z

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY
KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

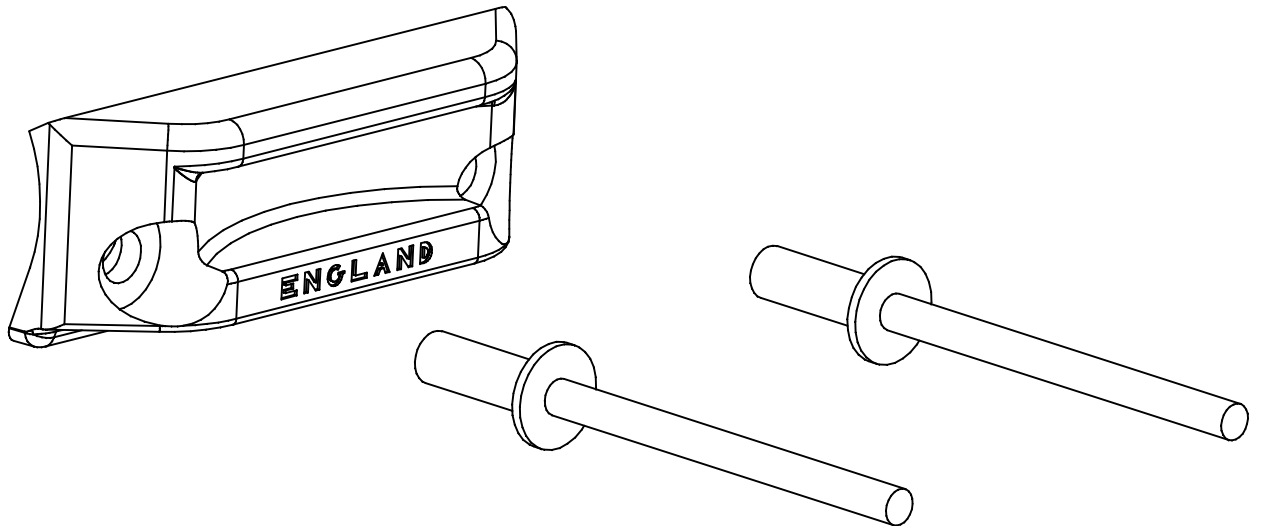
LOW PROFILE HATCH SPARES

SMALL HANDLE KITS

ISSUE 2.0

DATE 11-Nov-98

LEWMAR



RIVETS SUPPLIED IN KIT

KIT No.	36092499Z
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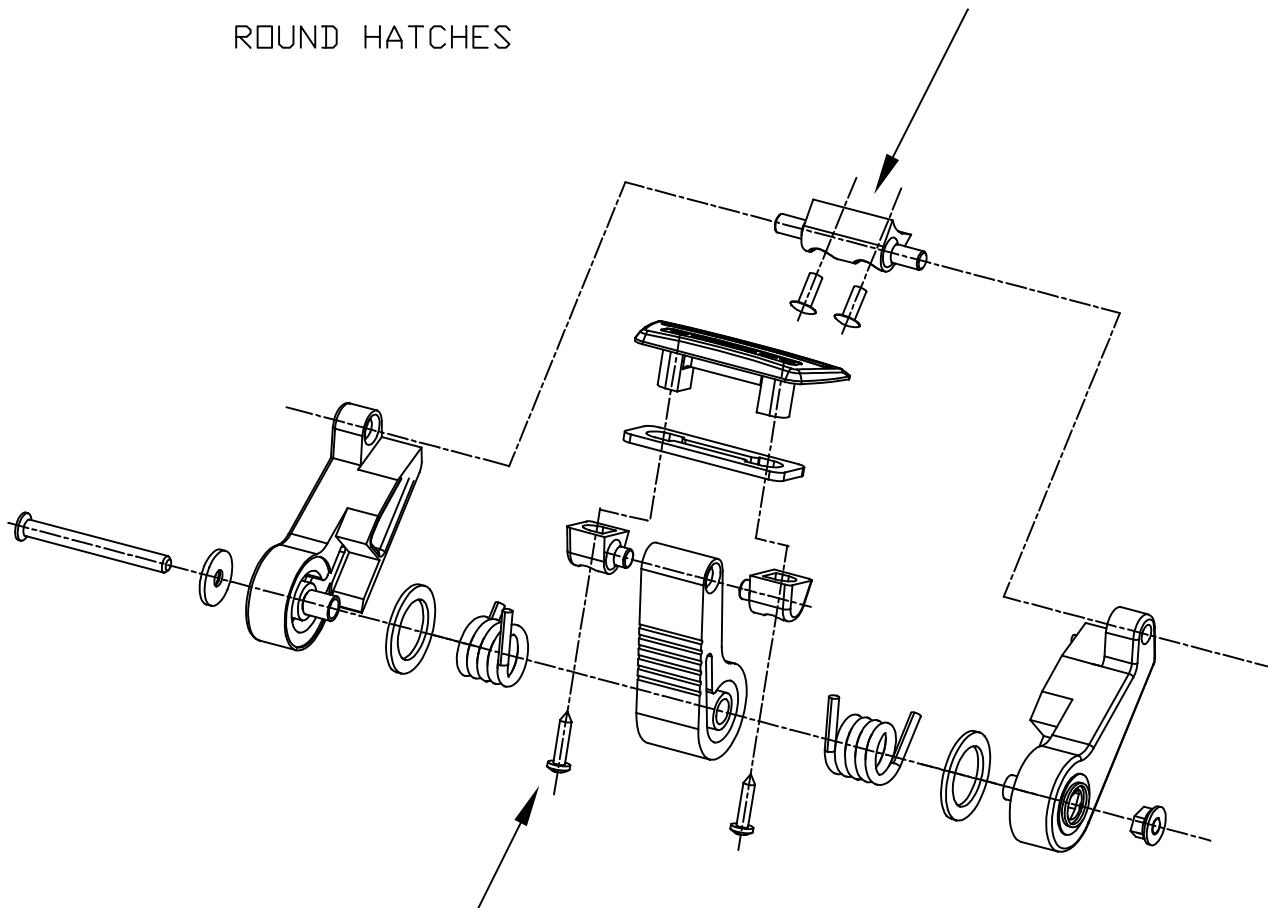
Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY
 KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES
 PARTS FIT LOW & MEDIUM PROFILE Mk.1 & Mk.2 HATCHES

LOW & MEDIUM PROFILE SPARES

CATCH BLOCK	ISSUE	1.2	DATE	18-JUL-00
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LEWMAR

KIT CONTAINES LOWER PIVOT FOR RECTANGULAR AND
ROUND HATCHES



KIT CONTAINES SHORT SCREWS FOR LOW PROFILE
AND LONG SCREWS FOR MEDIUM PROFILE HATCHES

KIT No.	36091799Z
---------	-----------

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY
KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

LOW & MEDIUM PROFILE HATCH SPARES

FRICION LEVER

ISSUE 4.0

DATE 18-JUL-00

LEWMAR

PTFE COATED SCREWS :-

8 OF M4 X 10 FOR LOW PROFILE Mk.1

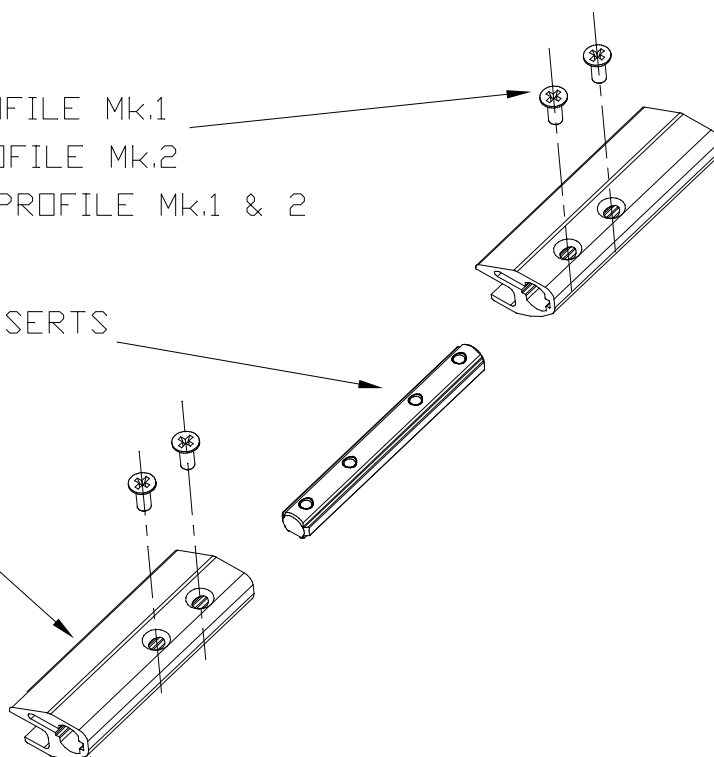
8 OF M4 X 12 FOR LOW PROFILE Mk.2

8 OF M4 X 16 FOR MEDIUM PROFILE Mk.1 & 2

ALL INCLUDED IN KIT

2 X PTFE COATED JOINING INSERTS

UPPER FRAMES NOT INCLUDED



KIT No.	HATCH
360925999	ALL SQUARE AND RECTANGULAR SIZES
360926999	SIZE 18 & 22 ROUND SIZE 51 D-HATCH

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

LOW & MEDIUM PROFILE Mk.1 & Mk.2 HATCH SPARES

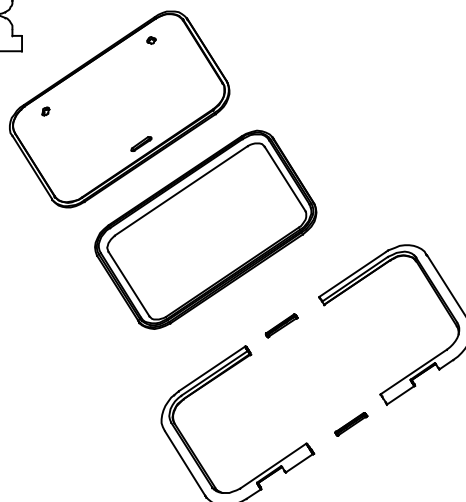
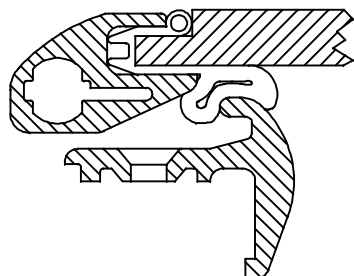
JOINING INSERT KITS

ISSUE 4

DATE 25-JUL-00

LEWMAR

HATCH CROSS SECTION



KIT No.	HATCH
360930ZXY	SIZE 00
360931ZXY	SIZE 03
360932ZXY	SIZE 05
360933ZXY	SIZE 10
360934ZXY	SIZE 20
360935ZXY	SIZE 21
3609369XY	SIZE 30*
3609379XY	SIZE 40
360938ZXY	SIZE 41
3609399XY	SIZE 44
3609409XY	SIZE 50
3609419XY	SIZE 54 CENTRAL FRICTION LEVER
3609479XY	SIZE 54 OFFSET FRICTION LEVER
3609429XY	SIZE 60
360943ZXY	SIZE 61
3609449XY	SIZE 65
ROUND HATCHES	
3609459XY	SIZE 18
3609469XY	SIZE 22

ASSEMBLY CONSISTS OF ACRYLIC SEAL, UPPER FRAMES & JOINING INSERTS ASSEMBLED READY FOR FITTING

LOW & MEDIUM PROFILE HATCHES USE DIFFERENT LOWER HINGES, THEREFORE THE LIDS ARE NOT INTERCHANGABLE

* P/N FOR SZ 30 WITH FRICTION LEVER, SOME WERE BUILT WITHOUT

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 LOW PROFILE HATCH SPARES

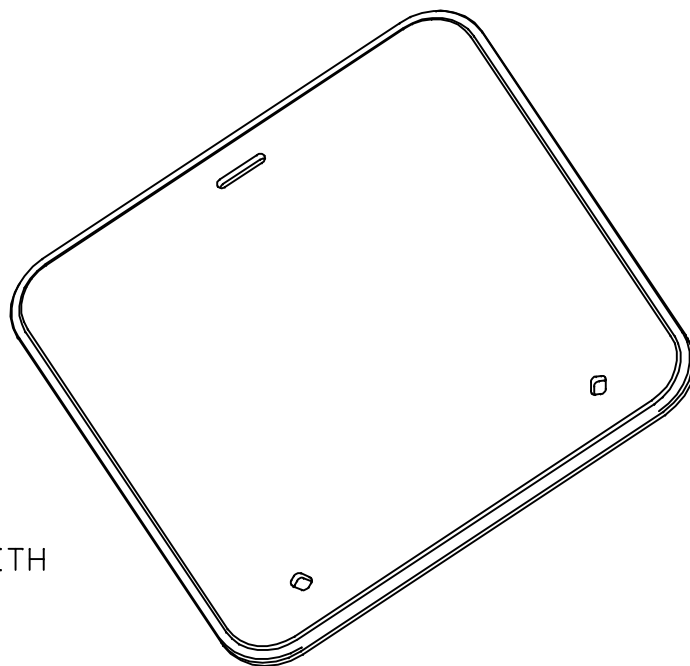
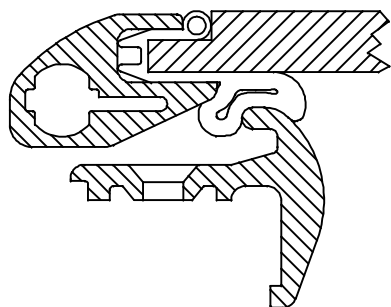
LID ASSEMBLIES

ISSUE 5

DATE 13-OCT-00

LEWMAR

HATCH CROSS SECTION



ACRYLICS ARE SUPPLIED WITH
THE SEAL FITTED

KIT No.	HATCH
3608409ZX	SIZE 00
3608419ZX	SIZE 03
3608439ZX	SIZE 10
3608449ZX	SIZE 20
3608459ZX	SIZE 21
36084699X	SIZE 30*
36084799X	SIZE 40
3608489ZX	SIZE 41

KIT No.	HATCH
36084999X	SIZE 44
36085099X	SIZE 50
36085199X	SIZE 54 CENTRAL FRICTION LEVER
36085799X	SIZE 54 OFFSET FRICTION LEVER
36085299X	SIZE 60
3608539ZX	SIZE 61
36085499X	SIZE 65
ROUND HATCHES	
36085599X	SIZE 18
36085699X	SIZE 22

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

*P/N FOR SZ 30 WITH FRICTION LEVER, SOME WERE BUILT WITHOUT
KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 LOW PROFILE HATCH SPARES

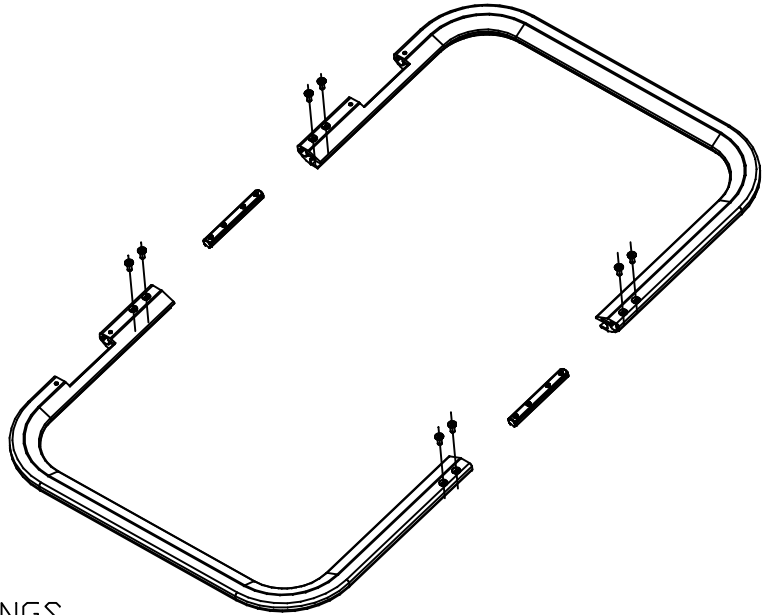
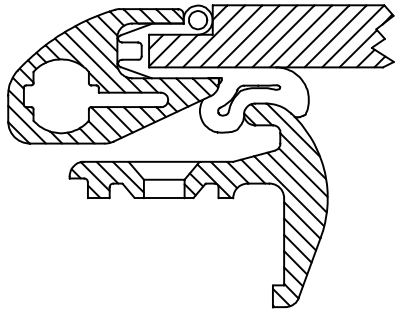
ACRYLICS

ISSUE 4

DATE 13-OCT-00

LEWMAR

HATCH CROSS SECTION



UPPER FRAMES COME WITH JOINING INSERTS & FASTENINGS

KIT No.	HATCH
36088099Y	SIZE 00
36088199Y	SIZE 03
36088299Y	SIZE 05
36088399Y	SIZE 10
36088499Y	SIZE 20
36088599Y	SIZE 21
36088699Y	SIZE 30
36088799Y	SIZE 40
36088899Y	SIZE 41

KIT No.	HATCH
36088999Y	SIZE 44
36089099Y	SIZE 50
36089199Y	SIZE 54
36089299Y	SIZE 60
36089399Y	SIZE 61
36089499Y	SIZE 65
ROUND HATCHES	
36089599Y	SIZE 18
36089699Y	SIZE 22

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 LOW PROFILE HATCH SPARES

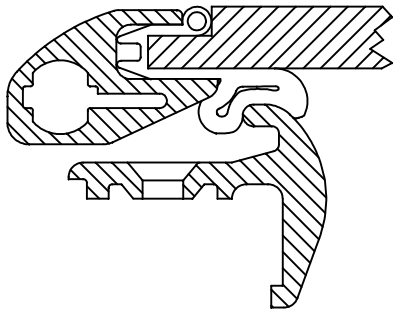
UPPER FRAMES

ISSUE 1.2

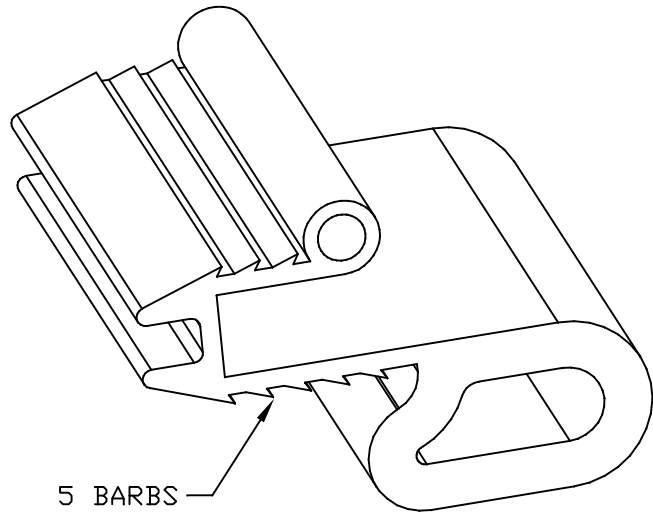
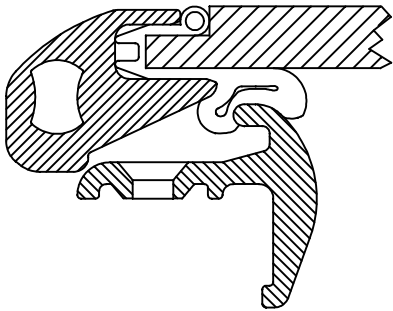
DATE 25-JUL-00

LEWMAR

Mk.1 HATCH CROSS SECTION



Mk.2 HATCH CROSS SECTION



3M SCOTCH-GRIP 7434 (OR SIMILAR WATER BASED CONTACT ADHESIVE) IS USED TO STICK THE SEAL TO THE ACRYLIC ACRYLIC TO AID ASSEMBLY

KIT No.	HATCH
360860999	SIZE 00
360861999	SIZE 03
360862999	SIZE 05
360863999	SIZE 10
360864999	SIZE 20
360865999	SIZE 21
360866999	SIZE 30
360867999	SIZE 40
360868999	SIZE 41

KIT No.	HATCH
360869999	SIZE 44
360870999	SIZE 50
360871999	SIZE 54
360872999	SIZE 60
360873999	SIZE 61
360874999	SIZE 65
ROUND HATCHES	
360875999	SIZE 18
360876999	SIZE 22

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

LOW PROFILE Mk.1 & 2 HATCH SPARES

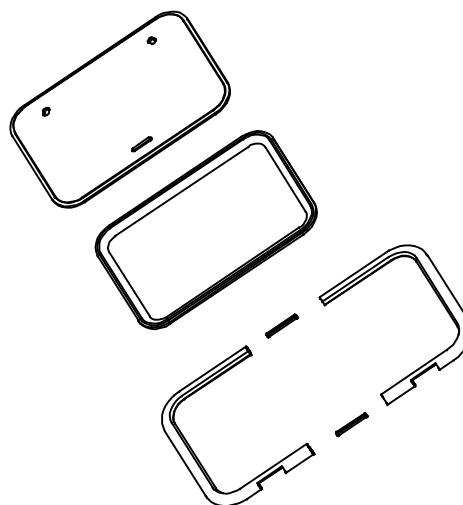
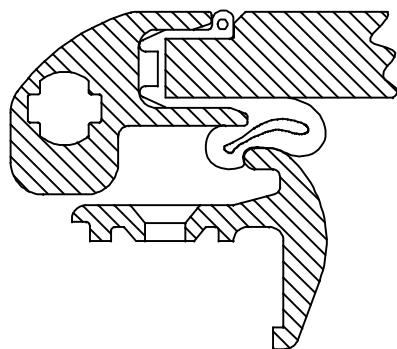
SEAL KITS

ISSUE 2.0

DATE 25-JUL-00

LEWMAR

HATCH CROSS SECTION



ASSEMBLY CONSISTS OF ACRYLIC SEAL, UPPER FRAMES & JOINING INSERTS ASSEMBLED READY FOR FITTING

LOW & MEDIUM PROFILE HATCHES USE DIFFERENT LOWER HINGES, THEREFORE THE LIDS ARE NOT INTERCHANGABLE

KIT No.	HATCH
3609909XY	SIZE 40
3609919XY	SIZE 44
3609929XY	SIZE 50
3609939XY	SIZE 54 CENTRAL FRICTION LEVER
3609999XY	SIZE 54 OFFSET FRICTION LEVER
3609949XY	SIZE 60
3609969XY	SIZE 70
3609989XY	SIZE 77

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 MEDIUM PROFILE HATCH SPARES

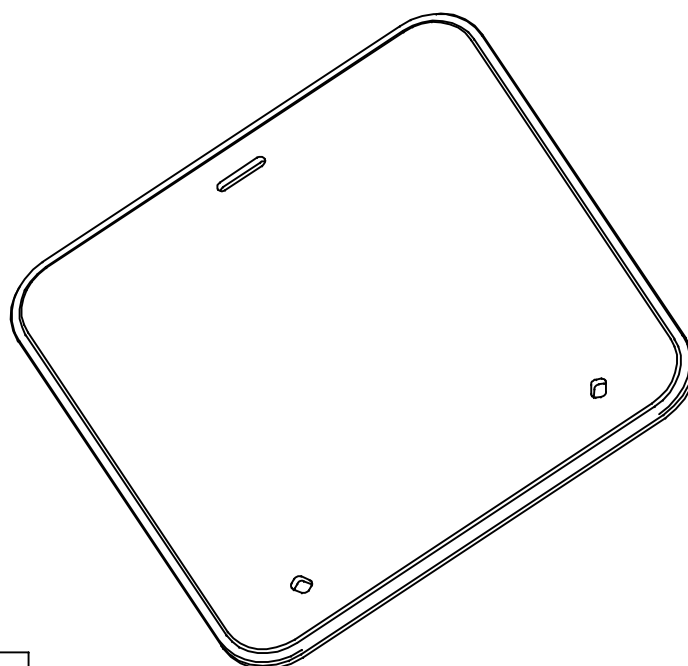
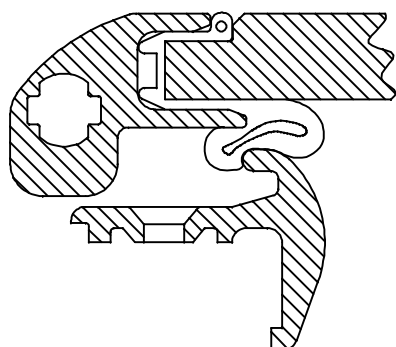
LID ASSEMBLIES

ISSUE 3

DATE 25-JUL-00

LEWMAR

HATCH CROSS SECTION



KIT No.	HATCH
36095099X	SIZE 40
36095199X	SIZE 44
36095299X	SIZE 50
36095399X	SIZE 54 CENTRAL FRICTION LEVER
36094999X	SIZE 54 OFFSET FRICTION LEVER
36095499X	SIZE 60
36095699X	SIZE 70
36095899X	SIZE 77

ACRYLICS ARE SUPPLIED WITH THE SEAL FITTED

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 MEDIUM PROFILE HATCH SPARES

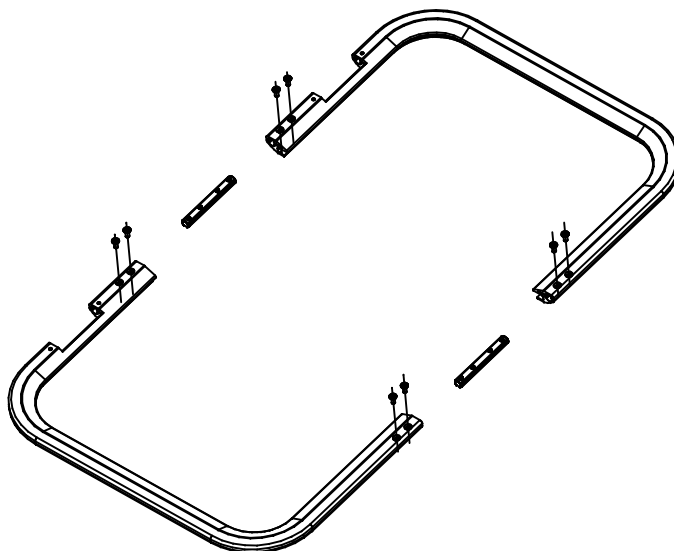
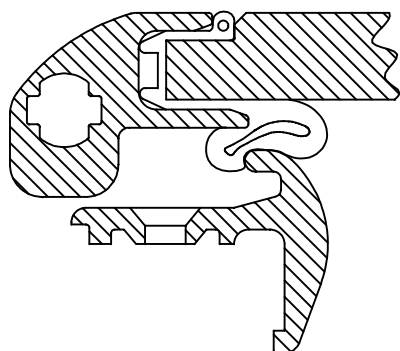
ACRYLICS

ISSUE 3

DATE 25-JUL-00

LEWMAR

HATCH CROSS SECTION



KIT No.	HATCH
36097099Y	SIZE 40
36097199Y	SIZE 44
36097299Y	SIZE 50
36097399Y	SIZE 54
36097499Y	SIZE 60
36097699Y	SIZE 70
36097899Y	SIZE 77

UPPER FRAMES COME WITH JOINING INSERTS & FASTENINGS

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 MEDIUM PROFILE HATCH SPARES

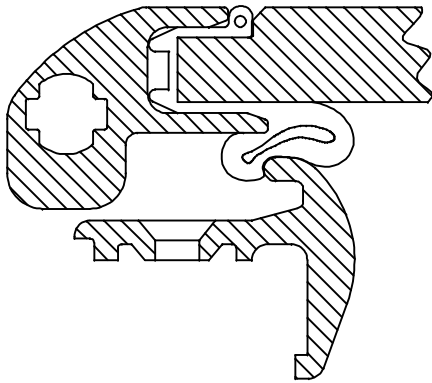
UPPER FRAMES

ISSUE 2

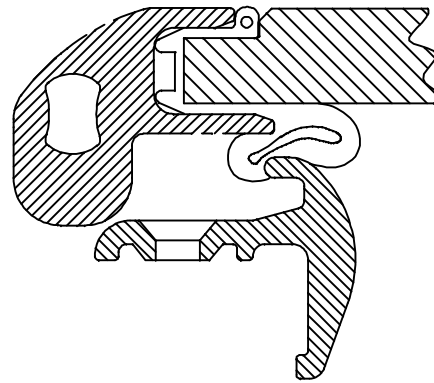
DATE 25-JUL-00

LEWMAR

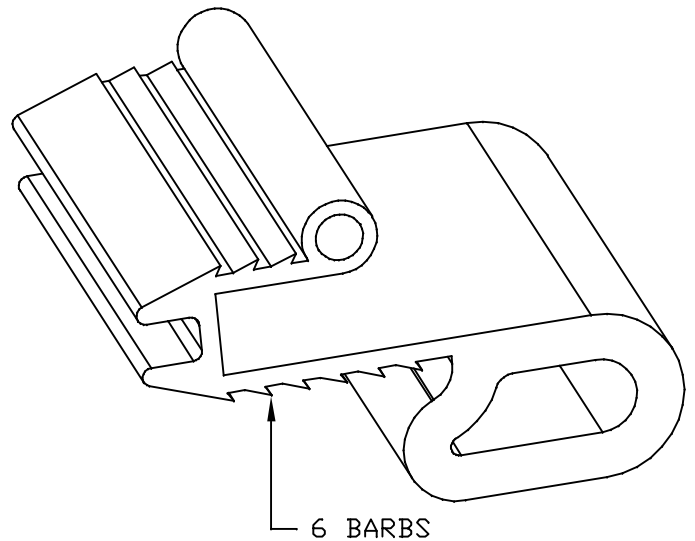
Mk1 CROSS SECTION



Mk2 CROSS SECTION



KIT No.	HATCH
360959999	SIZE 30
360960999	SIZE 40
360961999	SIZE 44
360962999	SIZE 50
360963999	SIZE 54
360964999	SIZE 60
360966999	SIZE 70
360968999	SIZE 77



KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

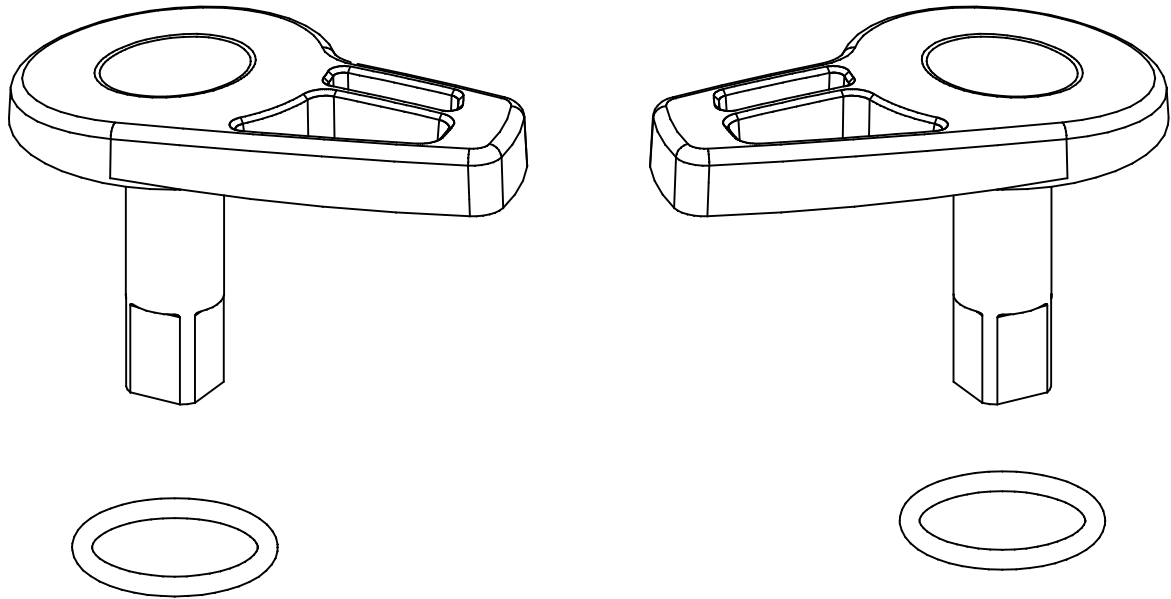
MEDIUM PROFILE Mk.1 & Mk.2 HATCH SPARES

SEAL KITS

ISSUE 3

DATE 07-JAN-02

LEWMAR



KIT IS 5 X LEFT & 5 X RIGHT HANDLE

KIT No.	36091999Z
---------	-----------

Z = 0 FOR STANDARD GREY AND 1 FOR BENETEAU GREY
 HANDLES CAN ALSO BE USED AS REPLACEMENTS ON OCEAN, COASTLINE
 AND ROLLSTOP HATCHES
 OLD HANDLES CAN NOT BE USED ON LOW AND MEDIUM PROFILE

LOW & MEDIUM PROFILE HATCH SPARES

OUTSIDE HANDLES

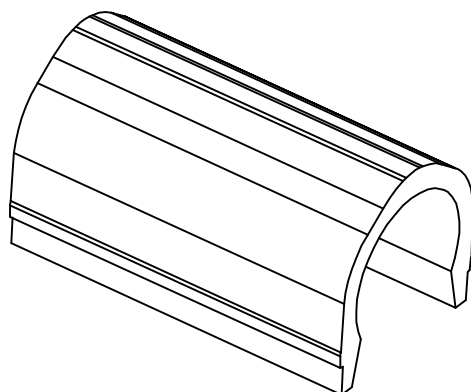
ISSUE

2.0

DATE

25-JUL-00

LEWMAR



PART NO	COLOUR	KIT CONTENTS
361021999 36102199Z	GREY OTHER	4 × LOW & 4 × MED PROFILE
361027999 36102799Z	GREY OTHER	10 × LOW PROFILE
361044999 36104499Z	GREY OTHER	100 × LOW PROFILE
361028999 36102899Z	GREY OTHER	10 × MEDIUM PROFILE

LOW & MEDIUM PROFILE Mk.1 & Mk.2 HATCH SPARES

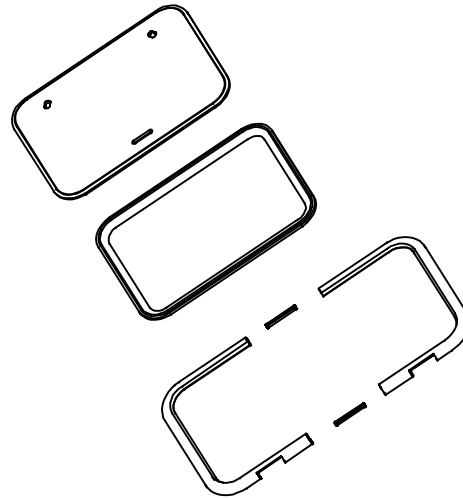
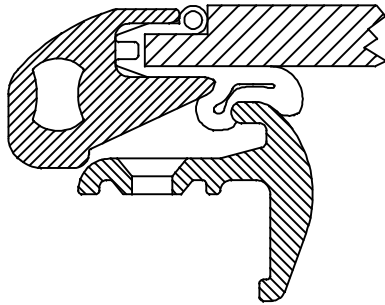
HINGE CAPS

ISSUE 3

DATE 18-AUG-03

LEWMAR

HATCH CROSS SECTION



KIT No.	HATCH
361110ZXY	SIZE 00
361111ZXY	SIZE 03
361112ZXY	SIZE 10
361113ZXY	SIZE 20
361114XYZ	SIZE 21
3911159XY	SIZE 30
3611169XY	SIZE 40
361117ZXY	SIZE 41
3911189XY	SIZE 44
3611199XY	SIZE 50
3611209XY	SIZE 54
3611219XY	SIZE 60
361122ZXY	SIZE 61
3611239XY	SIZE 65
ROUND HATCHES	
3611249XY	SIZE 18
3611259XY	SIZE 22

ASSEMBLY CONSISTS OF ACRYLIC SEAL, UPPER FRAMES & JOINING INSERTS ASSEMBLED READY FOR FITTING

LOW & MEDIUM PROFILE HATCHES USE DIFFERENT LOWER HINGES, THEREFORE THE LIDS ARE NOT INTERCHANGABLE

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 LOW PROFILE HATCH SPARES

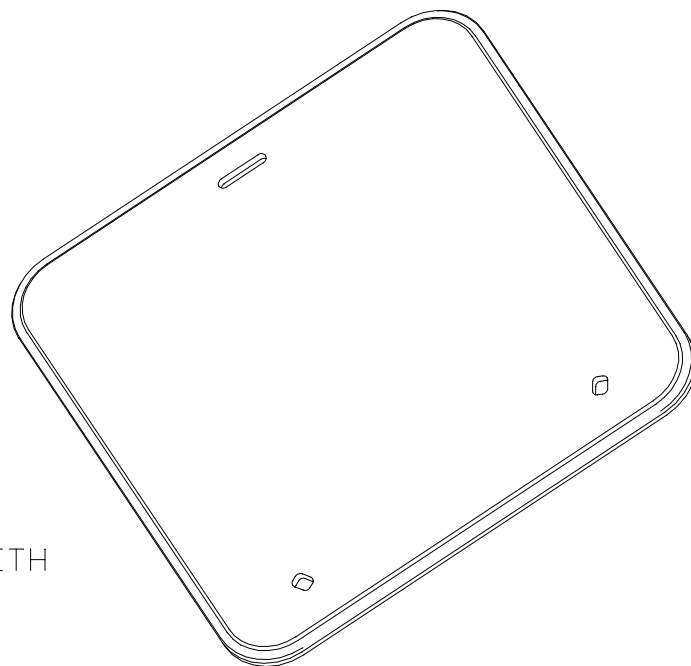
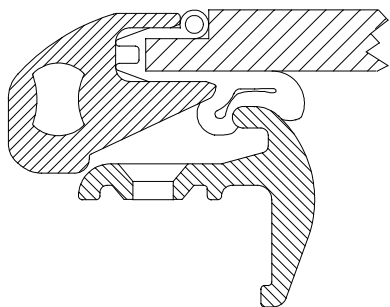
LID ASSEMBLIES

ISSUE 3

DATE 20-DEC-00

LEWMAR

HATCH CROSS SECTION



ACRYLICS ARE SUPPLIED WITH
THE SEAL FITTED

KIT No.	HATCH
3610509ZX	SIZE 00
3610519ZX	SIZE 03
3610529ZX	SIZE 10
3610539ZX	SIZE 20
3610549ZX	SIZE 21
36105599X	SIZE 30
36105699X	SIZE 40
3610579ZX	SIZE 41

KIT No.	HATCH
36105899X	SIZE 44
36105999X	SIZE 50
36106099X	SIZE 54
36106199X	SIZE 60
3610629ZX	SIZE 61
36106399X	SIZE 65
ROUND HATCHES	
36106499X	SIZE 18
36106599X	SIZE 22

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 LOW PROFILE HATCH SPARES

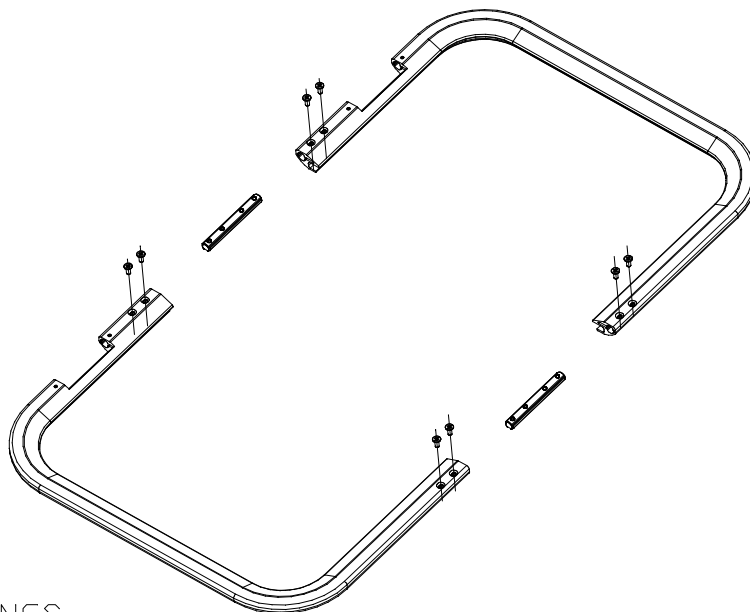
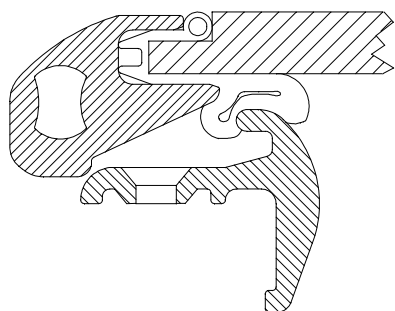
ACRYLICS

ISSUE 2

DATE 13-OCT-00

LEWMAR

HATCH CROSS SECTION



UPPER FRAMES COME WITH JOINING INSERTS & FASTENINGS

KIT No.	HATCH
36109099Y	SIZE 00
36109199Y	SIZE 03
36109299Y	SIZE 10
36109399Y	SIZE 20
36109499Y	SIZE 21
36109599Y	SIZE 30
36109699Y	SIZE 40
36109799Y	SIZE 41

KIT No.	HATCH
36109899Y	SIZE 44
36109999Y	SIZE 50
36110099Y	SIZE 54
36110199Y	SIZE 60
36110299Y	SIZE 61
36110399Y	SIZE 65
ROUND HATCHES	
36110499Y	SIZE 18
36110599Y	SIZE 22

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 LOW PROFILE HATCH SPARES

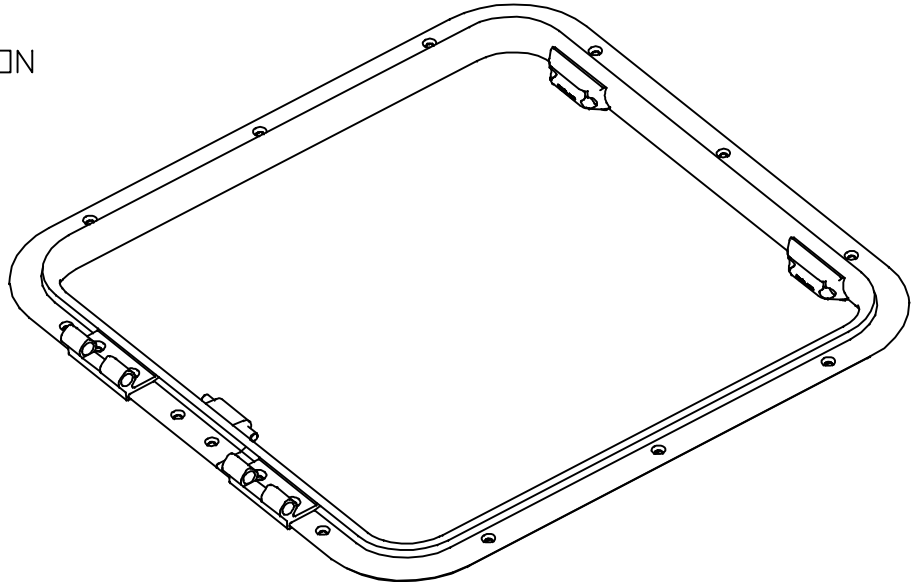
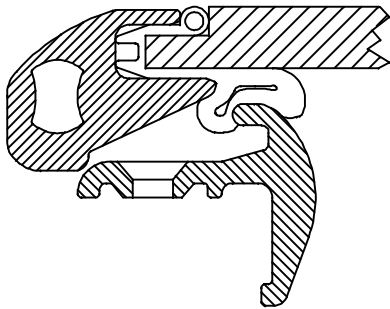
UPPER FRAMES

ISSUE 1

DATE 26-JUL-00

LEWMAR

Mk.2 HATCH CROSS SECTION



KIT No.	HATCH
3610709YZ	SIZE 00
3610719YZ	SIZE 03
3610729YZ	SIZE 10
3610739YZ	SIZE 20
3610749YZ	SIZE 21
3610759YZ	SIZE 30
3610769YZ	SIZE 40
3610779YZ	SIZE 41

KIT No.	HATCH
3610789YZ	SIZE 44
3610799YZ	SIZE 50
3610809YZ	SIZE 54 CENTRAL FRICTION LEVER
3610869YZ	SIZE 54 OFFSET FRICTION LEVER
3610819YZ	SIZE 60
3610829YZ	SIZE 61
3610839YZ	SIZE 65
ROUND HATCHES	
3610849YZ	SIZE 18
3610859YZ	SIZE 22

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

LOW PROFILE Mk.1 LIDS CAN BE FITTED TO Mk.2 LOWERS WITH THE EXCEPTION OF ROUND HATCHES (SZ 18 AND SZ 22)

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

LOW PROFILE Mk1 & Mk2 HATCH SPARES

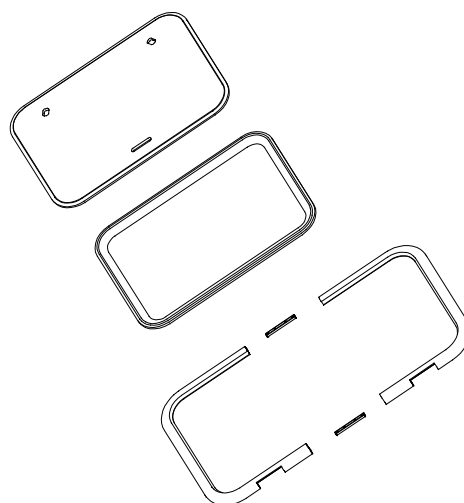
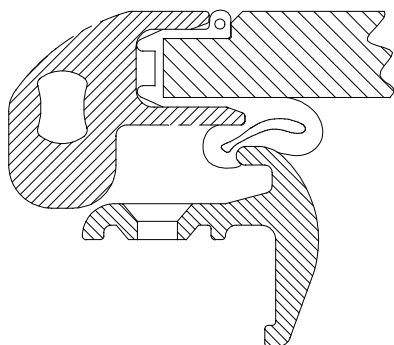
LOWER FRAMES

ISSUE 4

DATE 31-OCT-01

LEWMAR

HATCH CROSS SECTION



KIT No.	HATCH
3611689XY	SIZE 30
3611699XY	SIZE 40
3611709XY	SIZE 44
3611719XY	SIZE 50
3611729XY	SIZE 54
3611739XY	SIZE 60
3611759XY	SIZE 70
3611779XY	SIZE 77

ASSEMBLY CONSISTS OF ACRYLIC SEAL, UPPER FRAMES & JOINING INSERTS ASSEMBLED READY FOR FITTING

LOW & MEDIUM PROFILE HATCHES USE DIFFERENT LOWER HINGES, THEREFORE THE LIDS ARE NOT INTERCHANGABLE

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 MEDIUM PROFILE HATCH SPARES

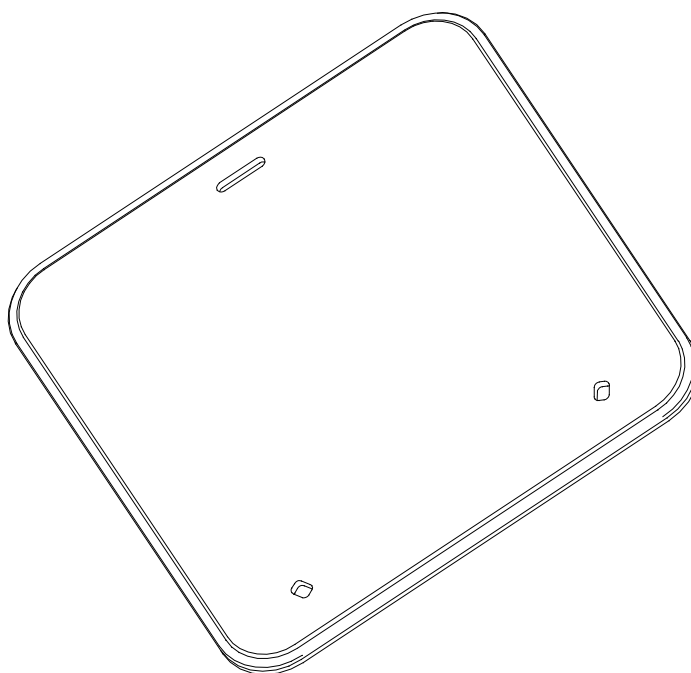
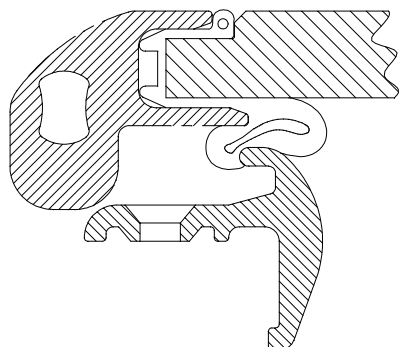
LID ASSEMBLIES

ISSUE 1

DATE 26-JUL-00

LEWMAR

HATCH CROSS SECTION



KIT No.	HATCH
36113099X	SIZE 30
36113199X	SIZE 40
39113299X	SIZE 44
36113399X	SIZE 50
36113499X	SIZE 54
36113599X	SIZE 60
36113799X	SIZE 70
36113999X	SIZE 77

ACRYLICS ARE SUPPLIED WITH
THE SEAL FITTED

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 MEDIUM PROFILE HATCH SPARES

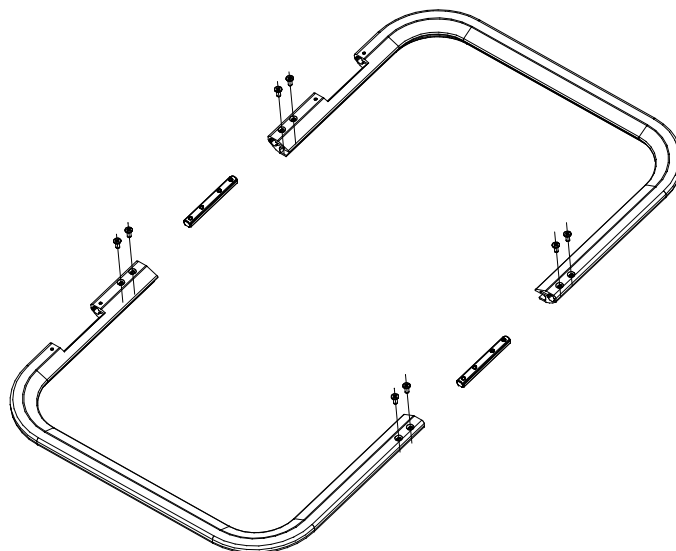
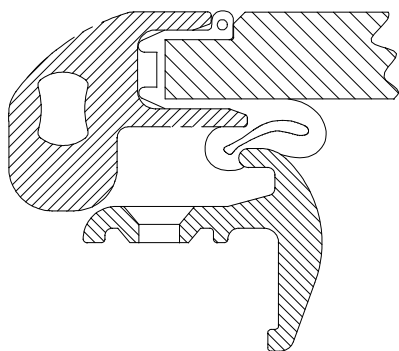
ACRYLICS

ISSUE 1

DATE 26-JUL-00

LEWMAR

HATCH CROSS SECTION



KIT No.	HATCH
36115699Y	SIZE 30
36115799Y	SIZE 40
36115899Y	SIZE 44
36115999Y	SIZE 50
36116099Y	SIZE 54
36116199Y	SIZE 60
36116399Y	SIZE 70
36116599Y	SIZE 77

UPPER FRAMES COME WITH JOINING INSERTS & FASTENINGS

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE CUSTOM PAINT COLOURS NOT SHOWN HERE

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 MEDIUM PROFILE HATCH SPARES

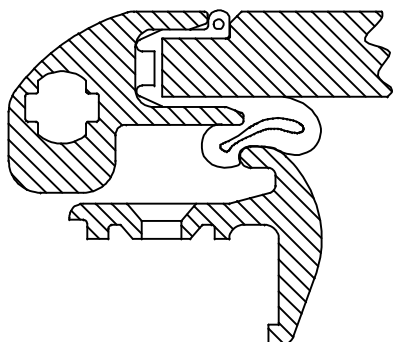
UPPER FRAMES

ISSUE 1

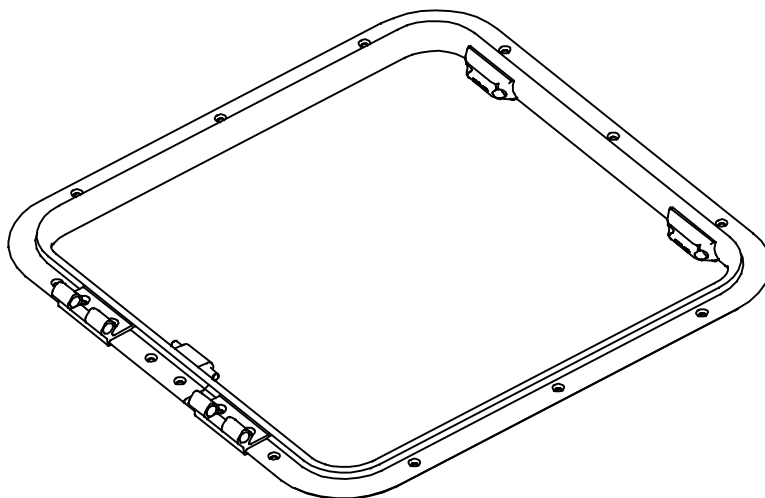
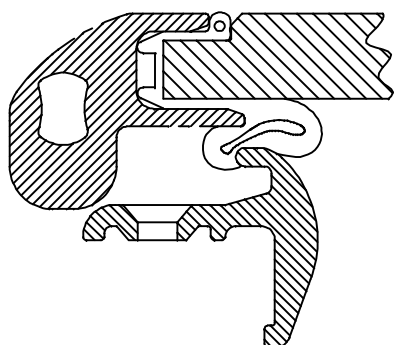
DATE 26-JUL-00

LEWMAR

Mk1 CROSS SECTION



Mk2 CROSS SECTION



Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

'Z' DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

KIT No.	HATCH
3611439YZ	SIZE 30
3611449YZ	SIZE 40
3611459YZ	SIZE 44
3611469YZ	SIZE 50
3611479YZ	SIZE 54 CENTRAL FRICTION LEVER
3611539YZ	SIZE 54 OFFSET FRICTION LEVER
3609849YZ	Mk1 SIZE 60
3611489YZ	Mk2 SIZE 60
3611509YZ	SIZE 70
3611529YZ	SIZE 77

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

MEDIUM PROFILE Mk1 & Mk2 HATCH SPARES

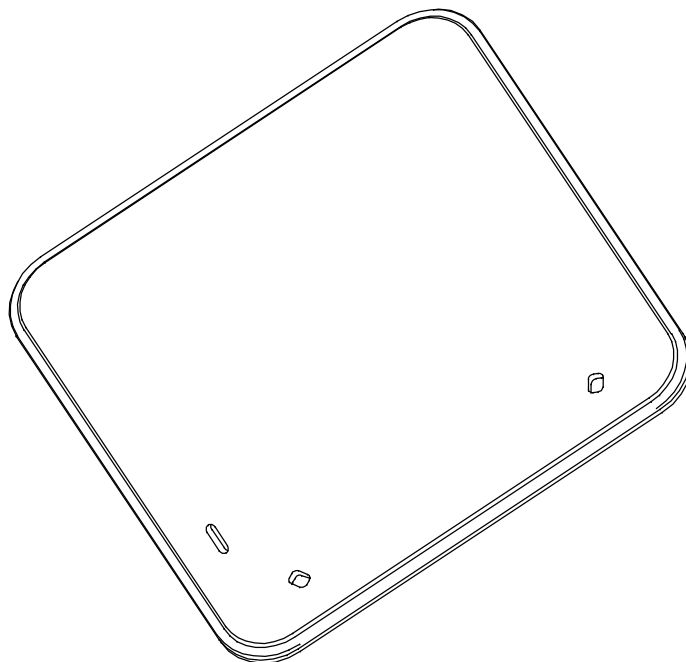
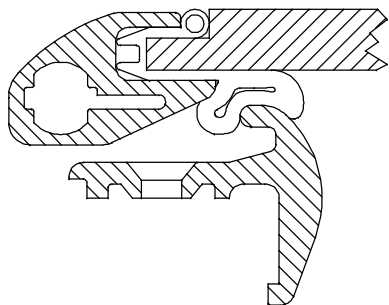
LOWER FRAMES

ISSUE 4

DATE 08-JAN-02

LEWMAR

LOW PROFILE
HATCH CROSS SECTION



ACRYLICS ARE SUPPLIED WITH
THE SEAL FITTED

KIT No.	HATCH
3612709ZX	SIZE 10 LOW PROFILE
36127199X	SIZE 30 LOW PROFILE
36127299X	SIZE 40 LOW PROFILE
36127399X	SIZE 44 LOW PROFILE
36127499X	SIZE 50 LOW PROFILE
36127599X	SIZE 54 LOW PROFILE
36127699X	SIZE 60 LOW PROFILE
36127899X	SIZE 70 MEDIUM PROFILE

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 LOW & MEDIUM PROFILE HATCH

ACRYLICS FOR HATCHES
WITH POWERBOAT STAY

ISSUE

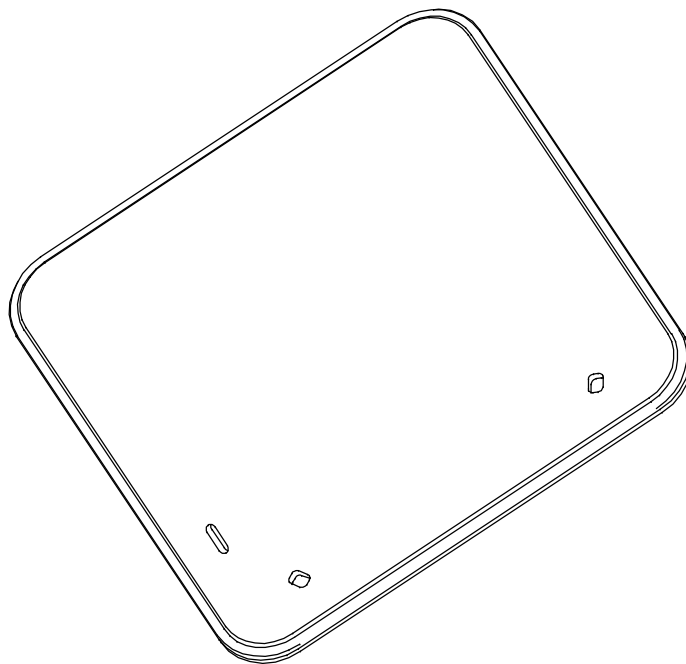
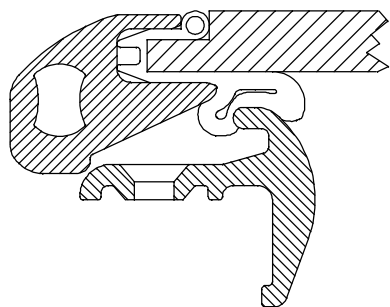
1

DATE

21-JAN-02

LEWMAR

LOW PROFILE
HATCH CROSS SECTION



ACRYLICS ARE SUPPLIED WITH
THE SEAL FITTED

KIT No.	HATCH
3612839ZX	SIZE 10 LOW PROFILE
36128499X	SIZE 30 LOW PROFILE
36128599X	SIZE 40 LOW PROFILE
36128699X	SIZE 44 LOW PROFILE
36128799X	SIZE 50 LOW PROFILE
36128899X	SIZE 54 LOW PROFILE
36128999X	SIZE 60 LOW PROFILE
36129199X	SIZE 70 MEDIUM PROFILE

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 LOW & MEDIUM PROFILE HATCH

ACRYLICS FOR HATCHES
WITH POWERBOAT STAY

ISSUE

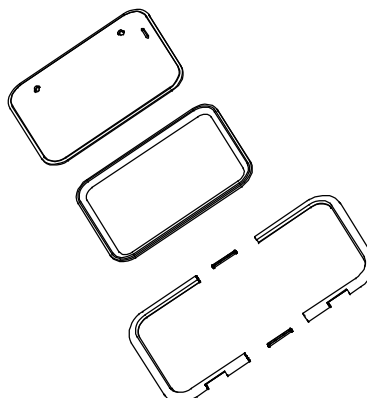
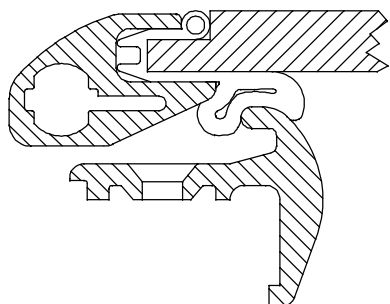
1

DATE

21-JAN-02

LEWMAR

LOW PROFILE
HATCH CROSS SECTION



ASSEMBLY CONSISTS OF ACRYLIC SEAL,
UPPER FRAMES & JOINING INSERTS
ASSEMBLED READY FOR FITTING

LOW & MEDIUM PROFILE HATCHES USE
DIFFERENT LOWER HINGES, THEREFORE THE
LIDS ARE NOT INTERCHANGABLE

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH
361301ZXY	SIZE 10 LOW PROFILE
3613029XY	SIZE 30 LOW PROFILE
3613039XY	SIZE 40 LOW PROFILE
3613049XY	SIZE 44 LOW PROFILE
3613059XY	SIZE 50 LOW PROFILE
3613069XY	SIZE 54 LOW PROFILE
3613079XY	SIZE 60 LOW PROFILE
3613099XY	SIZE 70 MEDIUM PROFILE

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.1 LOW & MEDIUM PROFILE HATCH

LIDS FOR HATCHES
WITH POWERBOAT STAY

ISSUE

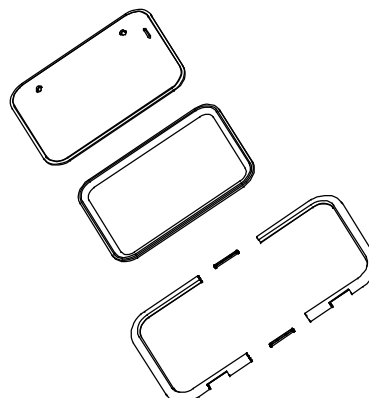
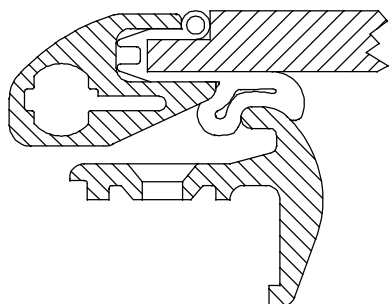
1

DATE

21-JAN-02

LEWMAR

LOW PROFILE
HATCH CROSS SECTION



ASSEMBLY CONSISTS OF ACRYLIC SEAL,
UPPER FRAMES & JOINING INSERTS
ASSEMBLED READY FOR FITTING

LOW & MEDIUM PROFILE HATCHES USE
DIFFERENT LOWER HINGES, THEREFORE THE
LIDS ARE NOT INTERCHANGABLE

Y DIGIT	FRAME COLOUR
0	SILVER ANODISE
1	BLACK ANODISE
2	WHITE PAINT
8	SHINY SILVER

SOME HIGH VOLUME BUILDERS USE
CUSTOM PAINT COLOURS NOT SHOWN HERE

KIT No.	HATCH
361313ZXY	SIZE 10 LOW PROFILE
3613149XY	SIZE 30 LOW PROFILE
3613159XY	SIZE 40 LOW PROFILE
3613169XY	SIZE 44 LOW PROFILE
3613179XY	SIZE 50 LOW PROFILE
3613189XY	SIZE 54 LOW PROFILE
3613199XY	SIZE 60 LOW PROFILE
3613219XY	SIZE 70 MEDIUM PROFILE

X DIGIT	ACRYLIC COLOUR
0	SMOKE GREY
1	BRONZE
2	CLEAR
3	WHITE
4	GREEN

Z DIGIT	MOULDING COLOUR
0	STANDARD GREY
1	BENETEAU GREY

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

Mk.2 LOW & MEDIUM PROFILE HATCH

LIDS FOR HATCHES
WITH POWERBOAT STAY

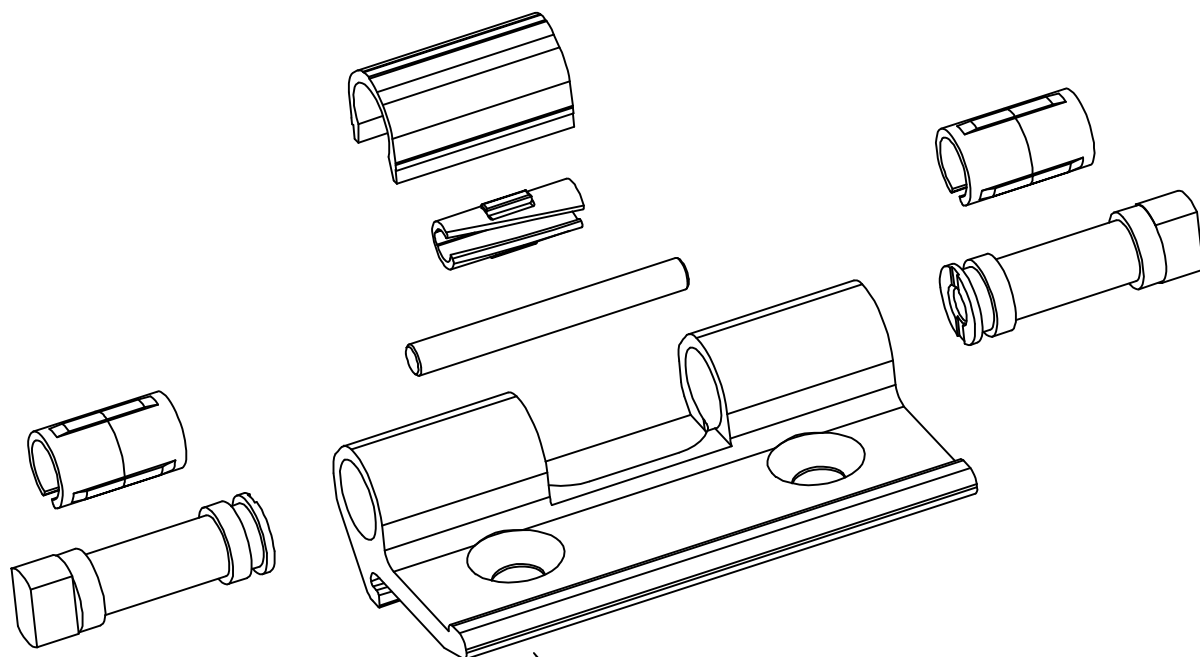
ISSUE

1

DATE

21-JAN-02

LEWMAR



THE LOWER HINGE IS NOT INCLUDED IN THE KIT BECAUSE IT IS RIVETED TO THE LOWER FRAME

RANGE	SIZE	KITS PER HATCH
LOW PROFILE Mk2	22, 30, 40, 44, 50, 51, 54, 60 & 65	1 KIT PER HATCH

KIT No. 361 244 999

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

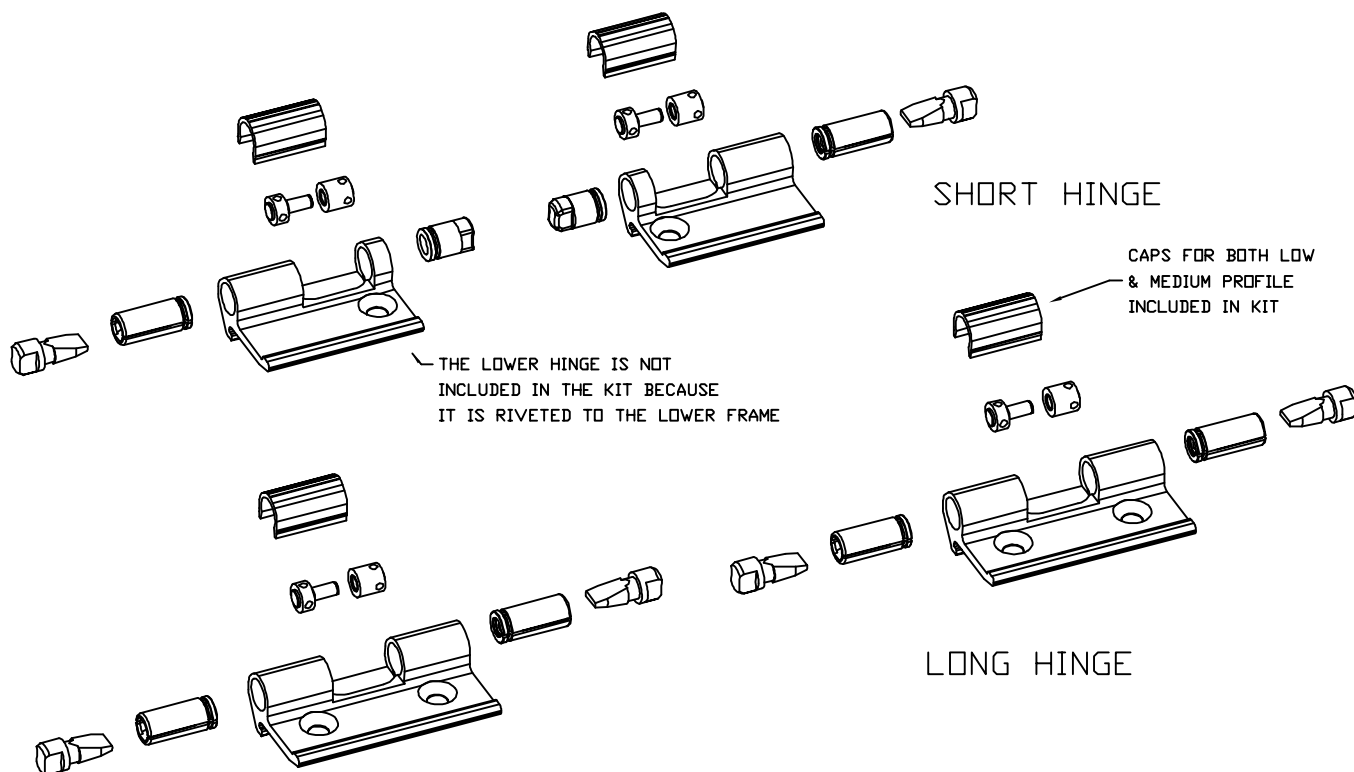
LOW & MEDIUM PROFILE Mk.2 HATCH SPARES

LONG ALLOY HINGE PIN

ISSUE 5

DATE 24-APR-02

LEWMAR



KIT INCLUDES PARTS FOR LONG & SHORT HINGE

RANGE	SIZE	KITS PER HATCH
LOW PROFILE Mk1 & 2	00 & 03	1 KIT FOR 2 HATCHES
LOW PROFILE Mk1 & 2	10, 18, 20 & 21	1 KIT PER HATCH
LOW PROFILE Mk1 & 2	41 & 61	1 KIT PER HATCH
LOW PROFILE Mk1	30,40,44,50,54,60 & 65	1 KIT PER HATCH
MED PROFILE Mk1 & 2	30, 40, 44, 50, 54 & 60	1 KIT PER HATCH
MED PROFILE Mk1 & 2	70 & 77	2 KIT PER HATCH

KIT No. 361 263 999

KITS ARE NOT COMPATIBLE WITH PREVIOUS HATCH RANGES

LOW & MEDIUM PROFILE Mk.1 & 2 HATCH SPARES

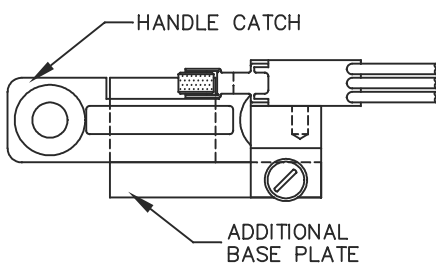
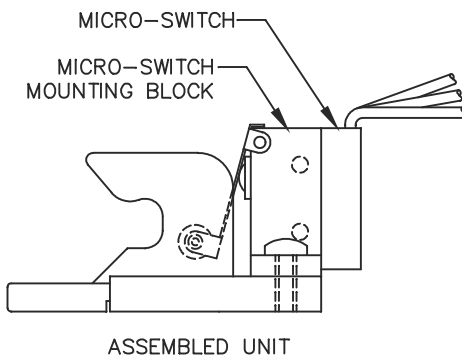
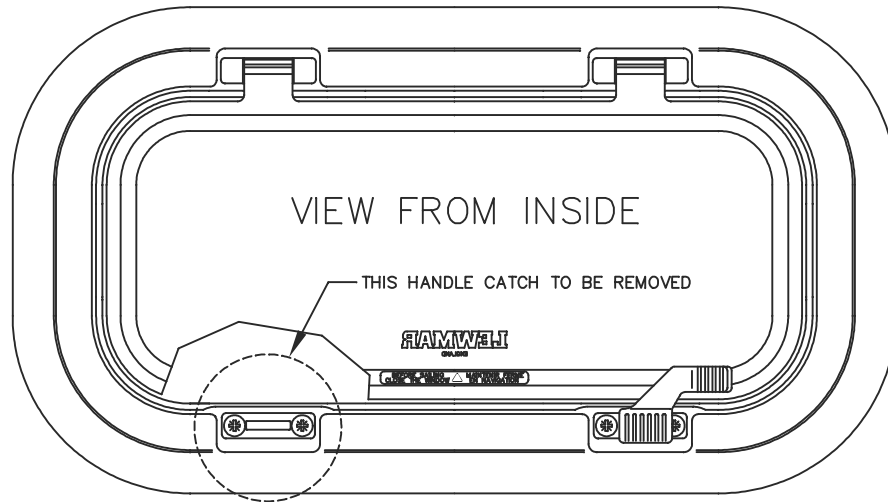
FRICITION ALLOY HINGE KIT

ISSUE 2

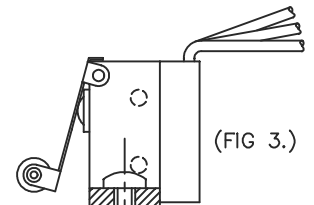
DATE 24-APR-02

P/N 360782999 OCEAN PORTLIGHT MICRO-SWITCH KIT
FITTING INSTRUCTIONS

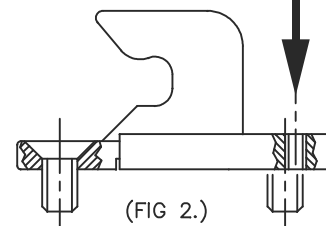
(FIG 1.)

WIRE COLOUR CODE:

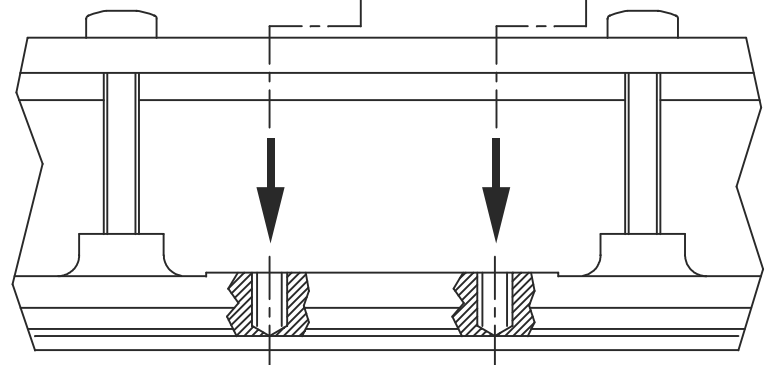
BLUE = NORMALLY OPEN
RED = COMMON
YELLOW = NORMALLY CLOSED



(FIG 3.)



(FIG 2.)

FITTING PROCEDURE:

1. REMOVE TRIM AND OPEN PORTLIGHT WINDOW FULLY.
2. UNSCREW AND REMOVE EXISTING HANDLE CATCH (SEE FIG 1).
3. FIT MODIFIED HANDLE CATCH ENSURING ADDITIONAL BASE PLATE IS IN POSITION (SEE FIG 2).
4. FIT MICRO-SWITCH ASSEMBLY USING SCREW SUPPLIED (SEE FIG 3).
5. OFFER TRIM TO PORTLIGHT AND MARK TRIM FOR ANY LOCALISED TRIMMING TO CLEAR MICRO-SWITCH ASSEMBLY.
6. WIRING SHOULD BE ROUTED AND CONNECTED BY A QUALIFIED ELECTRICIAN (SEE COLOUR CODE ABOVE)

NOTES:

- * MINIMUM HULL THICKNESS OF 20mm TO ALLOW TRIM TO CLEAR WIRING AND TOP OF MICRO-SWITCH.

LEWMAR

Portlight and Fixedlight Fitting Instructions

(To be retained in owners manual for future reference)

Lewmar Portlights and Fixedlights are for use on the deck and coachroof of yachts in accordance with **ISO/DIS 12216.2(E), DESIGN CAT. "A", AREAS II, III and IV** for Portlights and **AREAS I, II, III and IV** for Fixedlights. Modification of the product will invalidate the compliance with this directive.

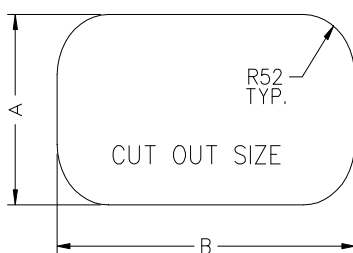
Fitting Instructions

Lewmar Portlight and Fixedlights should be fitted to a flat surface with a maximum tolerance of +/-1mm extending 12mm beyond the planned cutout and a deck / hull thickness if 6-34mm. Hold the inner frame on the inside of the intended position, ensure that a flat bearing area exists over the surface of the inner frame, leaving sufficient clearance for the trim to be fitted, (see sketch of typical cross section).

With a pencil mark out the cutout to the recommended dimension shown.

The lower edge of product fitted in the hull AREA I should be a minimum of 600mm above the floatation plane in the crafts fully loaded ready-for-use condition, the boat being at rest in the upright condition.

Where craft are intended to be operated on 'OCEAN' or 'OFFSHORE' voyages (as defined by ISO/DIS 12216.2(E)), no part of the plate or its framing is to extend beyond the outer surface of the hull or of a built-in-fairing being an integral part of the hull.



Size No.	Product Size	Dim A		Dim B	
		mm	ins	mm	ins
0	4x10	156	6 $\frac{1}{8}$	303	12
1	5x12	171	6 $\frac{3}{4}$	347	13 $\frac{5}{8}$
2	4x14	156	6 $\frac{1}{8}$	405	16
3	5x15	171	6 $\frac{3}{4}$	429	16 $\frac{3}{4}$
4	5x23	171	6 $\frac{3}{4}$	627	24 $\frac{1}{2}$
5	7x15	244	9 $\frac{5}{8}$	429	16 $\frac{7}{8}$
6	3x15	126	5	429	16 $\frac{7}{8}$

It is essential that the outer frame is placed squarely on the deck opening. When fitting a number of portlights it is advisable to prepare a template.

Cut out deck along 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 product. Openings cut in metal decks should have all burrs and sharp edges removed.

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

Measure thickness of skin (and inner trim if fitted).

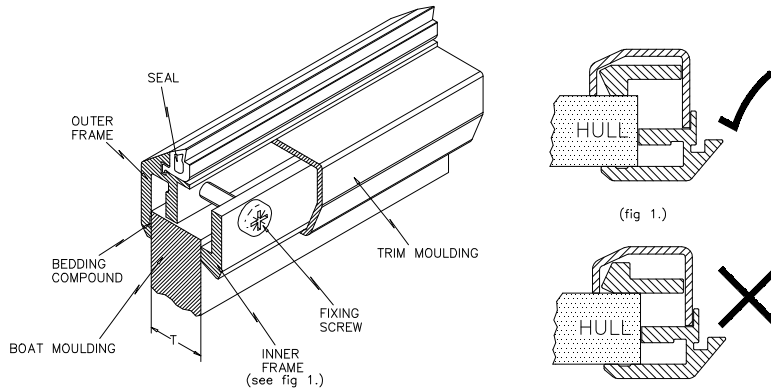
Re-check the frame on aperture and then apply bedding compound to the channel in outer frame. Bedding compound must have good adhesive qualities (eg. silicone sealant), be a suitable grade for marine sealing applications, of 3mm minimum thickness and compressible to allow the outer frame to be pulled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

Position the outer frame unit, and with the inner frame joint on the lower edge, bolt firmly in place, working from the centre out to the ends up to a maximum torque of 2.8Nm (25 in.lb). Clean off surplus sealant.

Caution:

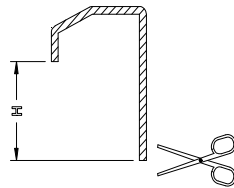
M5 screws supplied are for skin thickness 17-22mm. It is important that you use the correct length of screw otherwise you will damage the product. Check skin thickness and select correct length of screw from table.

Please Turn Over



Typical installation cross section

Portlight shown



Trim cross section

Adjust the trim moulding to the calculated length H by cutting the inner edge only to suit, using a fine toothed saw or tin snips, such that when fitted the trim clips to the inner frame. Snap the trim moulding into final position making sure that it clips onto the inner frame and is fully home all around its perimeter. It is a simple matter to remove the trim by prising it away on the outside edge, refit by snapping back onto the inner frame.

For portlight installations, check for correct operation of the window, closing / locking operation, even pressure on the seal etc. Don't forget to leave the flyscreen on board.

Dimension T	Screw	Order No.	Dimension H
6 – 9mm	use M5x12	19899000	H=T-12mm Where: H=Trim length T=boat moulding measurement
8 – 13mm	use M5x16	19899100	
12 – 17mm	use M5x20	19899200	
17 – 22mm	use M5x25	19899300	
22 – 27mm	use M5x30	19899400	
27 – 32mm	use M5x35	19899500	
32 – 34mm	use M5x40	19899600	

Alternative screw length table

User Notes

Flyscreens, when fitted are located between the outer frame and seal, enabling the portlight to be closed with the flyscreen in place. See the separate sheet for detailed instructions.

If a deadlight is required, we suggest that a plywood, aluminium or fibreglass plate be made to cover the portlight (notched to clear the hinges and handles on opening versions). The portlight trim moulding can then be removed allowing the inner frame to be drilled and tapped to facilitate bolting the deadlight in position.

Always wash the Portlight or Fixedlight with soap, water and a soft cloth.

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

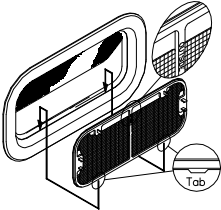
Please Turn Over

LEWMAR

New Standard Portlight Flyscreen Fitting Instructions

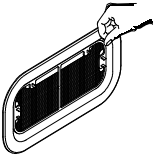
Outside Fitting – Preferred

If possible, fit the flyscreen from outside of the craft. With the portlight window open.



Insert tabs between the rubber seal and outer frame.

Note: The word OUTSIDE must be outside when correctly installed.



Gently press the flyscreen frame to locate the remainder of the screen between the seal and outer frame.

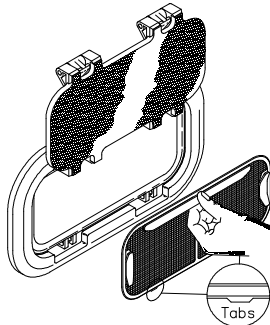
Once the flyscreen is correctly installed ensure that the straps are laying flat against the flyscreen frame, or they could obstruct closing the window.

4x10:4x14

5x12 : 5x15
5x23

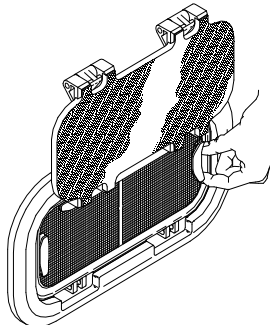
Inside Fitting

If you wish to fit the flyscreen from inside the boat, straps are fitted to the flyscreen frame to facilitate easier installation.



Holding the long strap, pass the flyscreen through the open portlight.

Insert tabs and bottom edge of the screen between the rubber seal and outer frame. Gently pull the flyscreen, easing the top edge into position, (excessive force might pull the screen past the seal).



Once satisfied that the top and bottom edges are correctly located, the ends can now be gently pulled into position with the aid of the small straps, (excessive force might pull the screen past the seal).

Once the flyscreen is correctly installed ensure that the straps are laying flat against the flyscreen frame, or they could obstruct closing the window.

Lewmar Marine Ltd Southmoor Lane Havant Hampshire PO9 1JJ England Tel (44) 01705 471841

REPLACING STANDARD PORTLIGHT SEALS

1) Check The Seal.

Check that the seal which you have ordered is the correct size for the portlight which is to have the seal replaced.

2) Remove The Old Seal.

The seal is held in place by an arrowhead which is forced into a cavity in the aluminium extrusion of the outer frame of the portlight. In addition silicone sealant has been applied to the cavity to aid assembly and help prevent leaks (see drawing on reverse).

3) Clean Out The Cavity In The Aluminium Outer Frame.

This may be done using a plastic scraper. Solvents should not be used to remove the old silicone sealant because they may attack or otherwise damage the outer frame. It may also result in damage or increase weathering of the acrylic should it come into contact with the window.

4) Dry Fit The Seal

The seal is not the same on both sides, there is a slight step which appears as a line along the seal. On one side of the seal the step is further away from the arrowhead than on the other. Fit the seal with the step furthest from the arrowhead closest to the centre of the portlight (see drawing on reverse).

Push the arrowhead into the cavity, a thin roller or blunt plastic "pusher" will make this easier. Work from the middle of the portlight to the ends, doing the top and bottom edge first. Work the corners in second and finish with the ends. The join in the seal should end up in line with one of the hinges.

If the seal will not go into place it is possible that there may be some of the old sealant left in the extrusion.

When the seal is dry fitted it should be possible to close the portlight.

5) Apply Sealant & Fit The Seal

Apply a bead of sealant all the way around the inside of the cavity. Fit the seal, close the portlight and leave for the seal to dry.

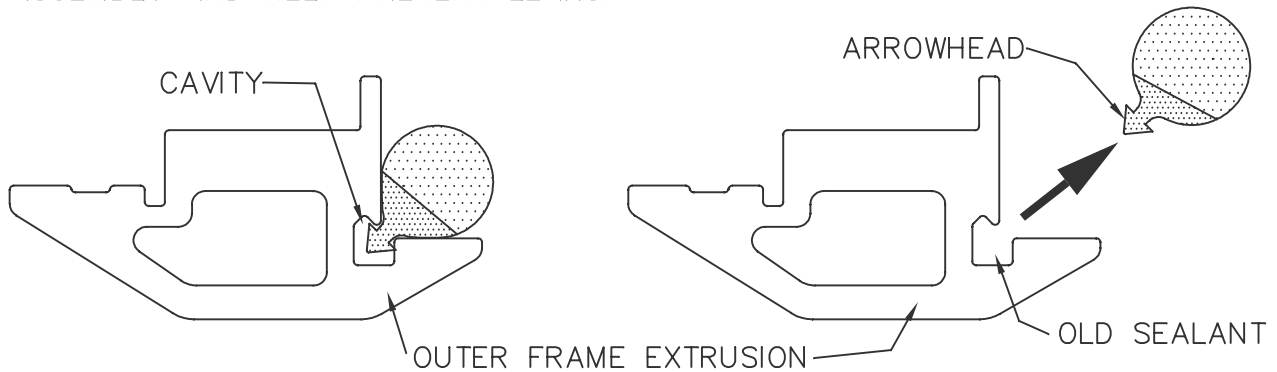
For drawings see sheet B5963-B on reverse

LEWMAR

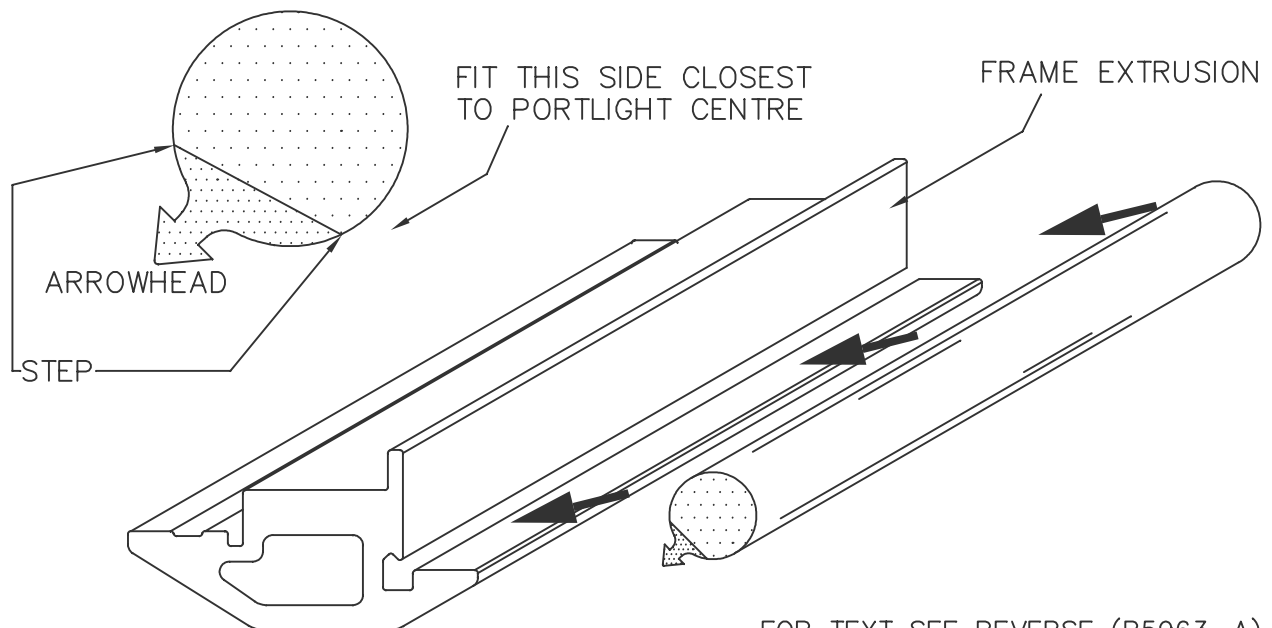
B5963-B

REPLACING STANDARD PORTLIGHT SEALS

THE OLD SEAL IS HELD IN PLACE BY AN ARROWHEAD WHICH IS FORCED INTO A CAVITY IN THE ALUMINIUM EXTRUSION OF THE OUTER FRAME OF THE PORTLIGHT. IN ADDITION, SILICONE SEALANT HAS BEEN APPLIED TO THE CAVITY TO AID ASSEMBLY AND HELP PREVENT LEAKS.



WHEN REFITTING THE SEAL IT IS IMPORTANT TO NOTE THAT THE SEAL IS NOT THE SAME ON BOTH SIDES, THERE IS A SLIGHT STEP WHICH APPEARS AS A LINE ALONG THE SEAL. ON ONE SIDE OF THE SEAL THE STEP IS FURTHER AWAY FROM ONE SIDE THAN THE OTHER. FIT THE SEAL WITH THE STEP FURTHEST FROM THE ARROWHEAD CLOSEST TO THE CENTRE OF THE PORTLIGHT.



FOR TEXT SEE REVERSE (B5963-A)

REPLACEMENT SEALS

ISSUE

2

DATE

04.02.97

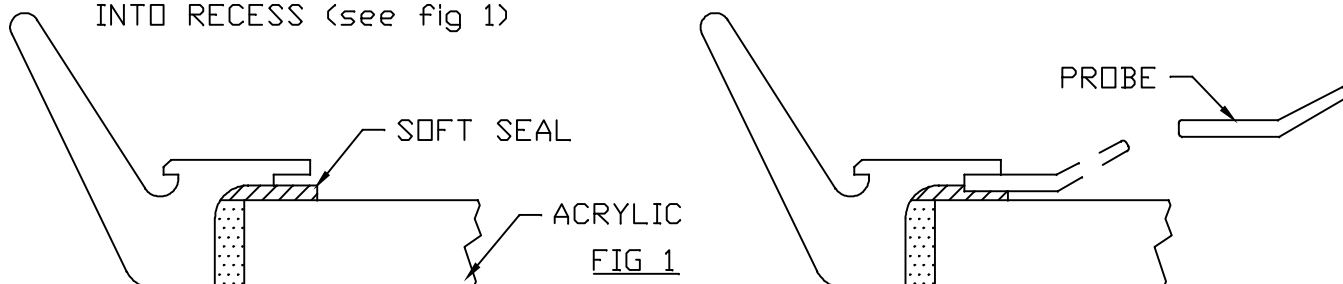
INSTRUCTIONS FOR REPLACING ROLLSTOP & OCEAN HATCH SEAL

LEWMAR WILL SUPPLY A LENGTH OF RUBBER - PREPARED AND GLUED

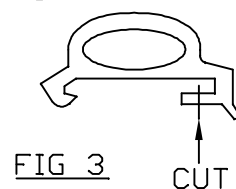
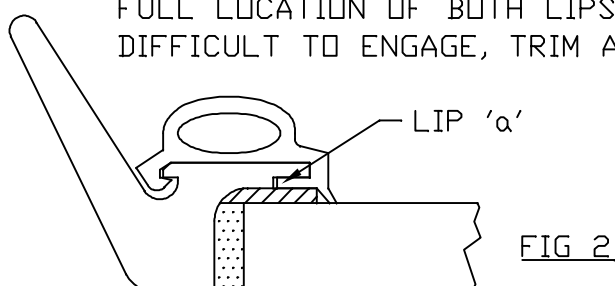
METHOD OF REPLACEMENT:-

(a) REMOVE ORIGINAL SEAL

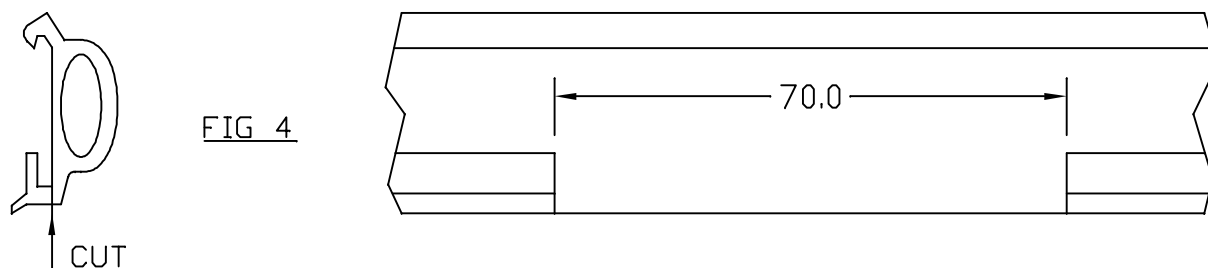
(b) USING A FLAT ENDED PROBE, PUSH SEALING RUBBER (SOFT) BACK INTO RECESS (see fig 1)



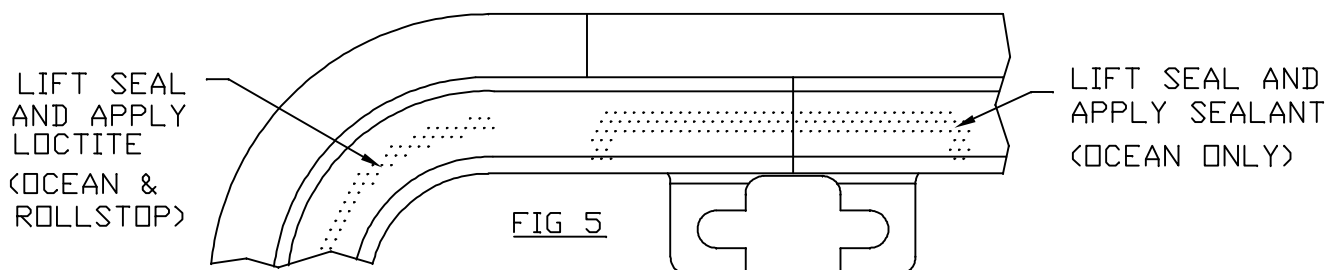
(c) FEED REPLACEMENT RUBBER ONTO THE ALLOY EXTRUSION, ENSURE FULL LOCATION OF BOTH LIPS (see fig 2) NOTE: IF LIP 'α' IS DIFFICULT TO ENGAGE, TRIM AS SHOWN IN (fig 3)



(d) OCEAN HATCHES REQUIRE THE SEAL TO BE CUT LOCALLY AROUND THE LEVER LUGS AS SHOWN IN (fig 4)



(e) LIFT THE SEAL AND APPLY A BEAD OF SILICON SEALANT TO THE FRAME AROUND THE LEVER LUG AS SHOWN IN (fig 5)



(f) LIFT SEAL AT CORNERS AND APPLY A BEAD OF LOCTITE TO FRAME (fig 5)

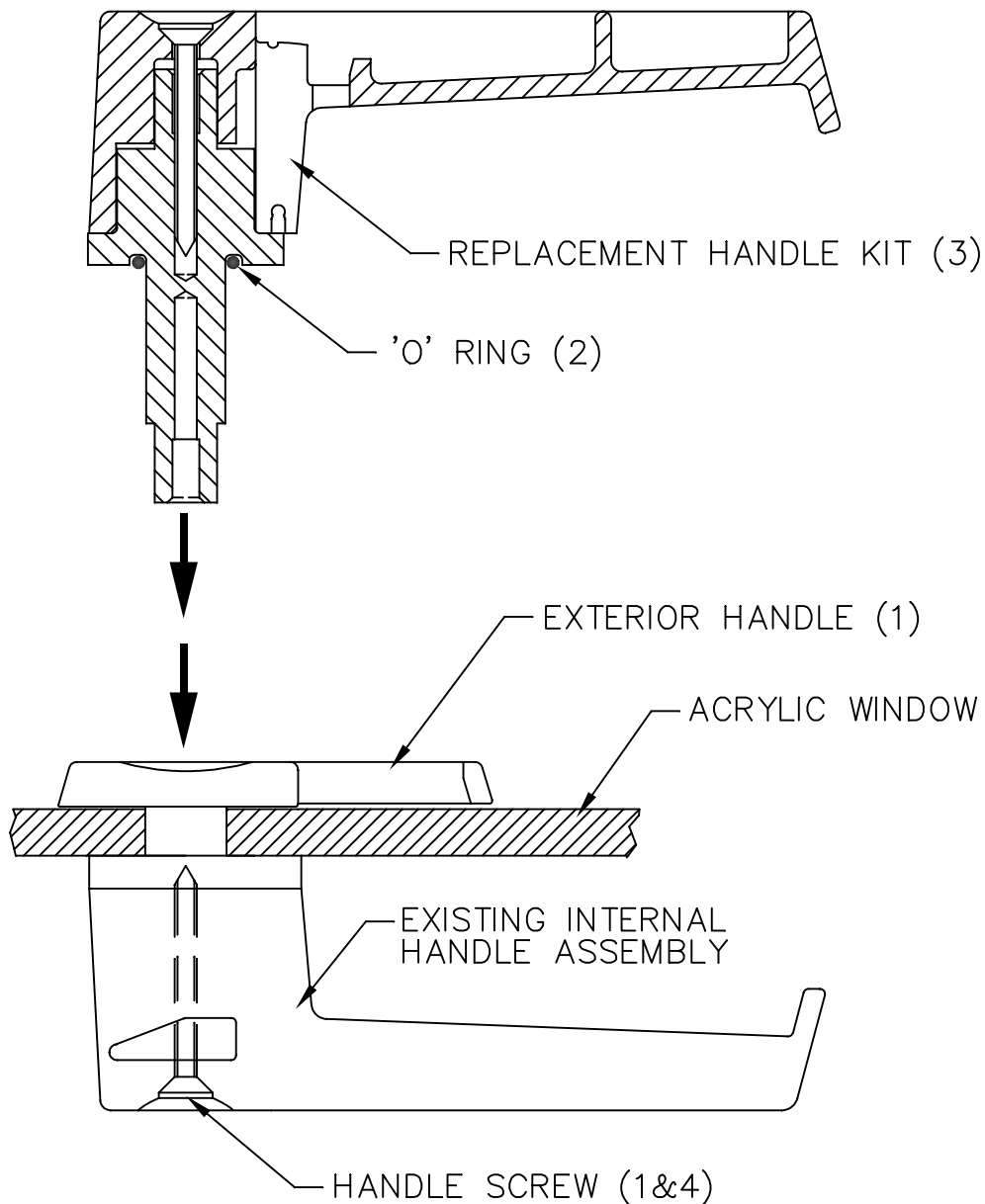
NOTES: ENSURE THAT THE SEAL IS FREE FROM PUCKERING.

SEAL JOINT TO BE LOCATED AROUND HINGE AREA ON ROLLSTOP HATCHES.

SEAL JOINT TO BE LOCATED APPROX HALF WAY DOWN EDGE ADJACENT TO HINGE'S ON OCEAN HATCHES.

FITTING INSTRUCTIONS FOR HANDLE KIT
SPARE No. 3607710999 (LH) & 3607700999 (RH)

B5966
ISSUE B



1. UNDO HANDLE SCREW AND REMOVE EXTERIOR HANDLE.
2. SMEAR A SMALL AMOUNT OF SILICONE GREASE ONTO EXPOSED SURFACE OF 'O' RING PRIOR TO FITMENT.
3. FIT REPLACEMENT HANDLE KIT ENSURING THAT THE SPINDLE ENGAGES CORRECTLY INTO EXISTING HANDLE.
4. RE-TIGHTEN THE SCREW AND SECURE USING THREADLOCK.

(NOT TO SCALE)

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.

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.

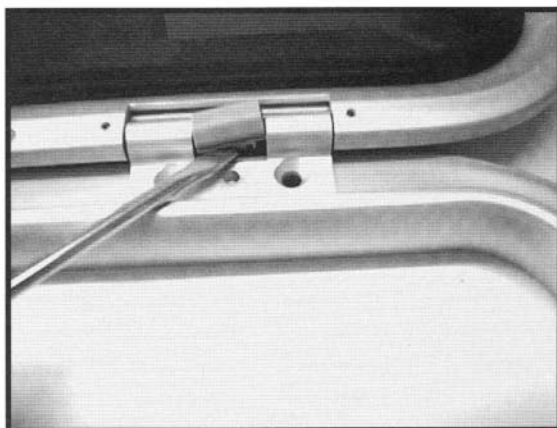
Open the hatch and check for correct operation. Re-adjust if necessary until the desired operation is achieved.

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

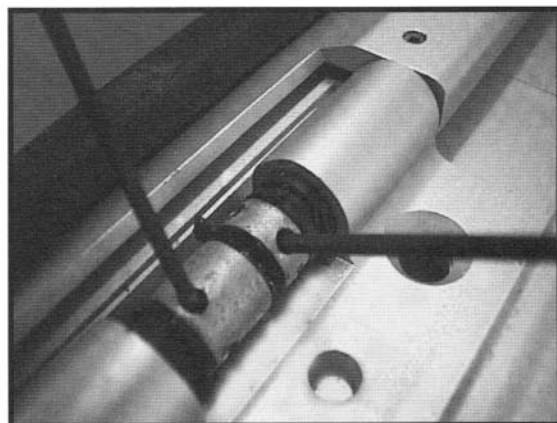


Hatches without Lever Stays

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

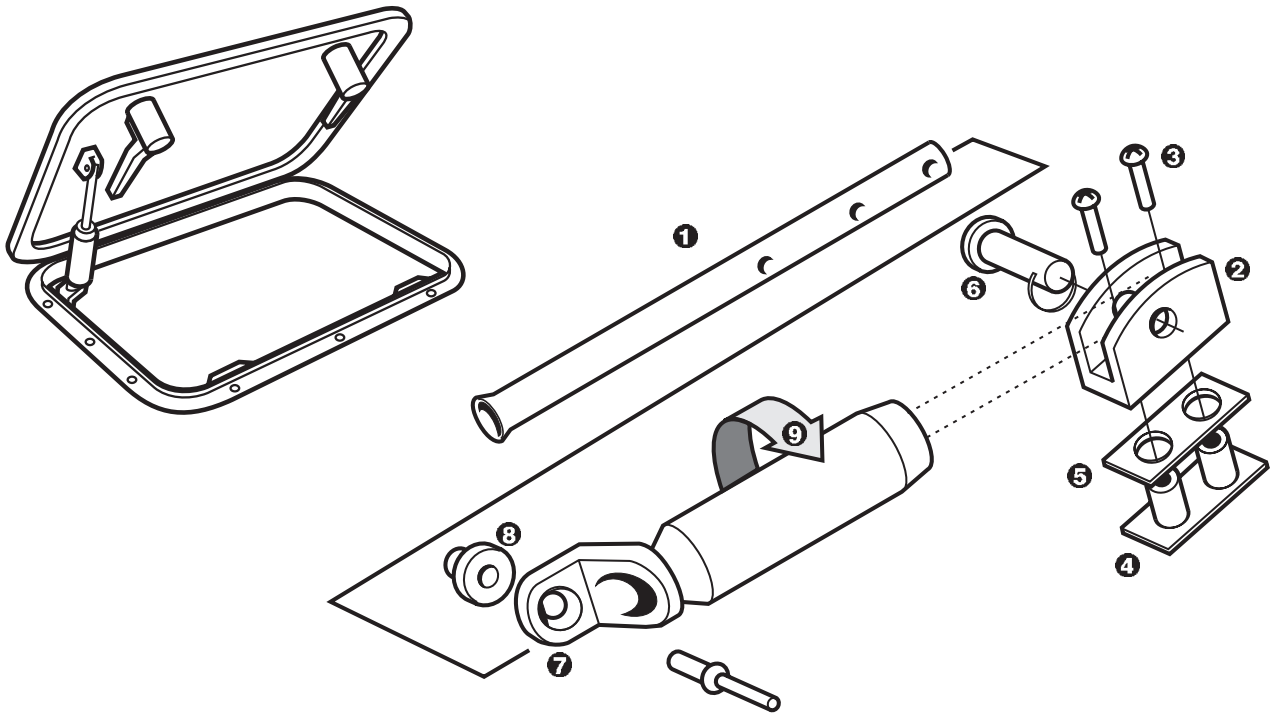
Open the hatch and check for correct operation. Re-adjust if necessary until the desired operation is achieved.

LEWMAR®

Retro-fit Hatch Stay Installation

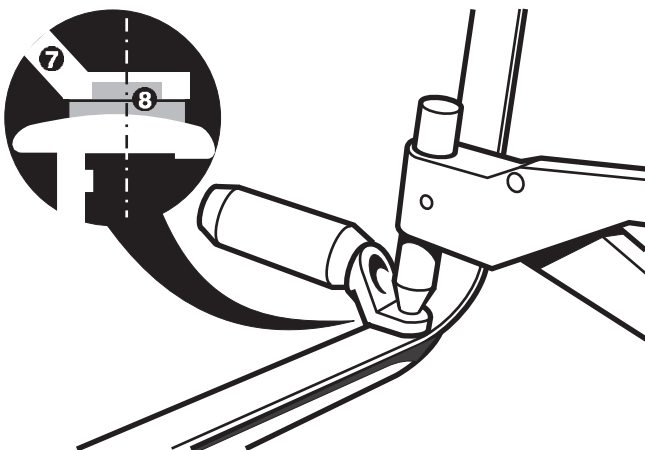
For Lewmar Low Profile Hatch Sizes 10, 30, 40, 44, 50, 54 & 60
and Medium Profile Size 70 (Two Stays Required).

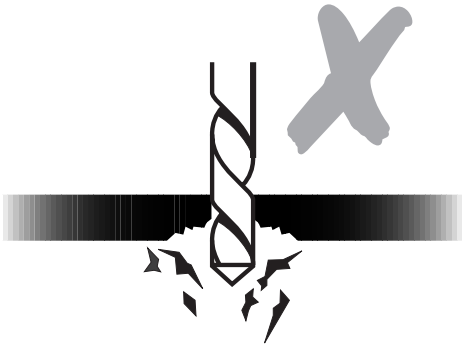
- GB** 1. KEY – (1) Metal travel tube (2) Upper pivot bracket (3) Cap screws (4) Screw outer cap (5) Gasket (6) Clevis pin (7) Stay handle assembly (8) Lower pivot bush and rivet (9) Twist to lock.



INSTALLATION

- GB** 2. **Stay Handle Assembly.** Remove the factory fitted plug from the lower frame. Place the pivot bush (8) at the correct angle with the frame curve and rivet the stay handle (7) on to the frame.





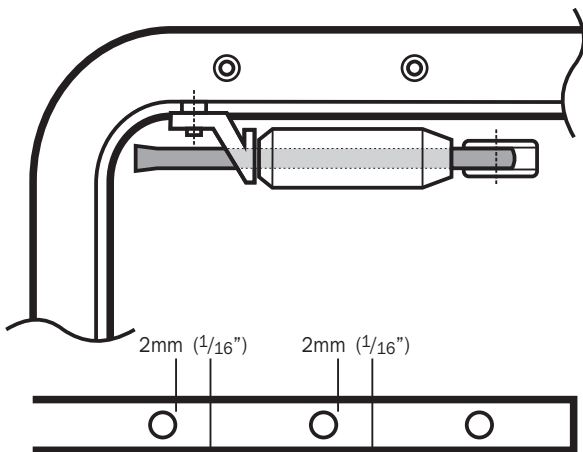
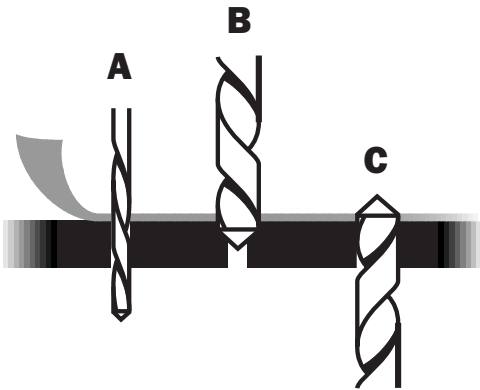
GB 3. WARNING – DO NOT DRILL THROUGH ACRYLIC IN ONE ACTION AS THE ACRYLIC WILL SPLINTER ON EXIT.

Cut the enclosed template to match hatch model and attach using tape.

A Position masking tape in the area to be drilled and using a sharp 5mm ($3/16$ ") bit at low speed drill pilot holes. **B** Drill 10mm ($3/8$ ") clearance holes **HALF** way through the acrylic using the pilot hole as a guide.

C Turn the hatch over and finish drilling holes from other side.

Place screw cap (4) and gasket (5) on outer surface of lid and fix with upper pivot (2) and screws from below.

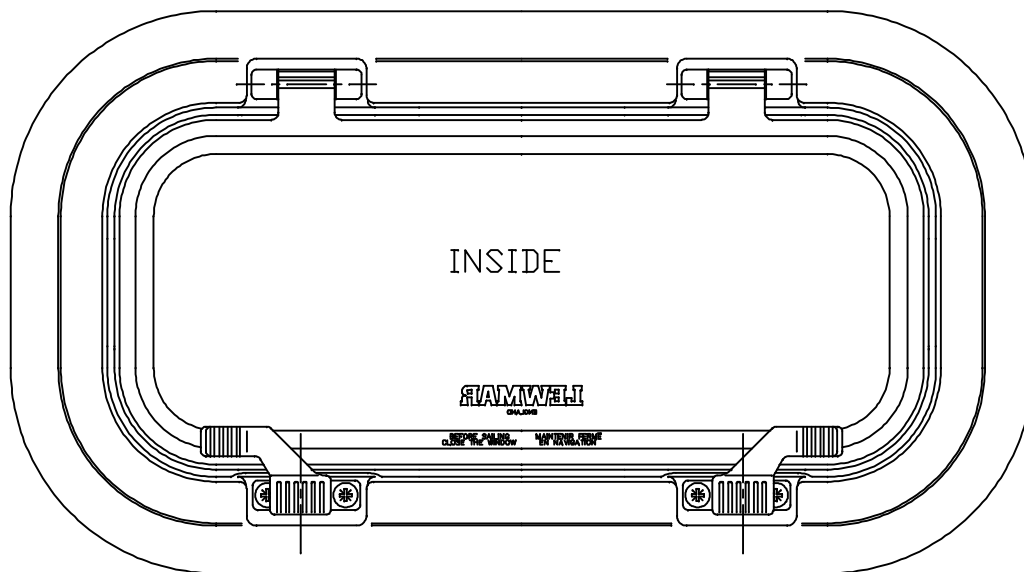
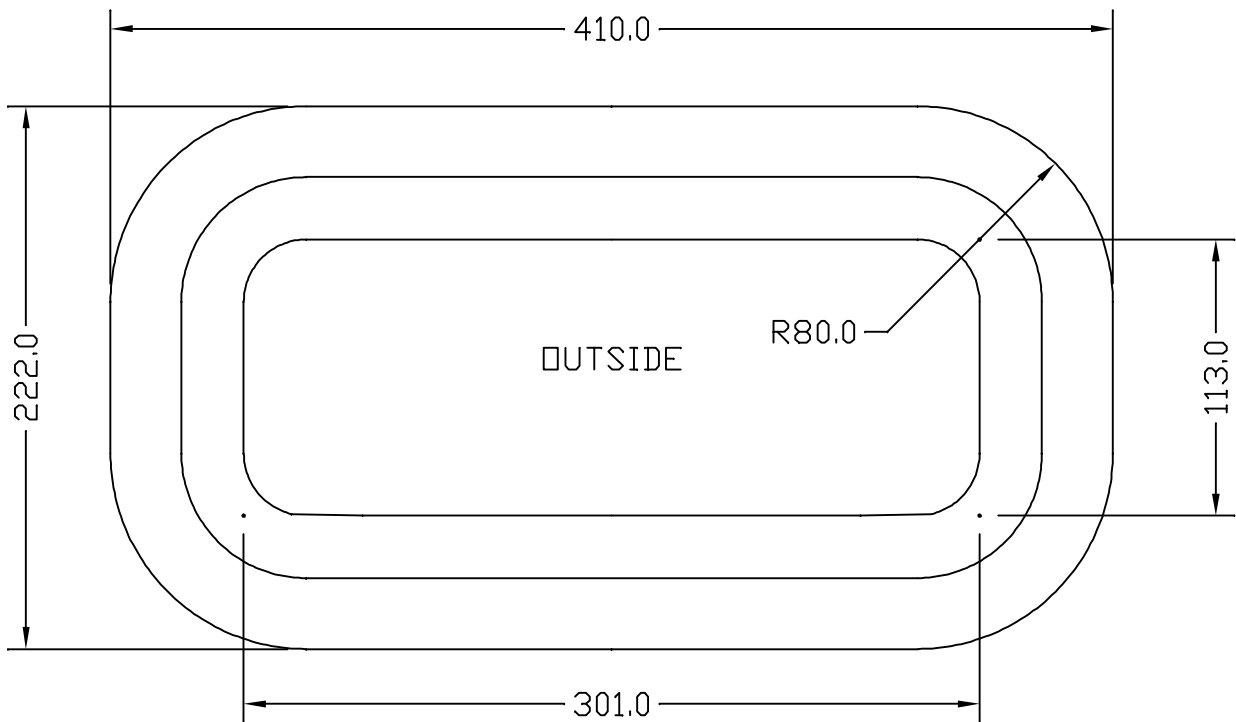


GB 4. Metal Tube Installation. NOTE: The metal rod (1) has one flared end stop - do not cut this end.

The table shows the length of tube for each Low Profile Hatch. On hatches 10 to 54 the tube length is reduced by cutting 2mm away from the hole.

Cut 2mm ($1/16$ ") from hole		
Short Tube	Medium Tube	Full Length Tube(s)
Size 10	Size 40	Size 60
Size 30	Size 44	Size 70 (2 off)
	Size 50	
	Size 54	

SIZE 1 OCEAN PORTLIGHT



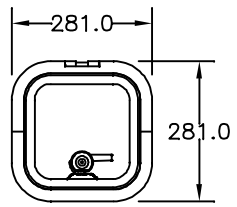
CUT-OUT SIZE = 382 x 194 x R65

TRIM OVERALL SIZE = 418 x 230 x R84

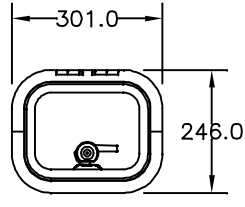
SAVED AS N:\DRAWINGS\ENQUIRY\0047-2 ISS.1 DATE: 27.5.98 BY:BoB (NO TO SCALE)

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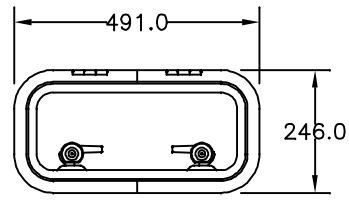
LOW PROFILE HATCH RANGE



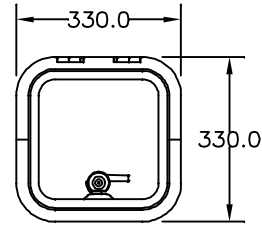
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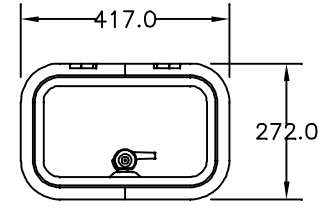
SIZE 03



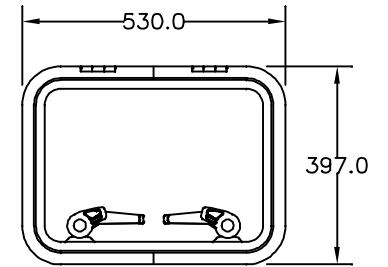
SIZE 41



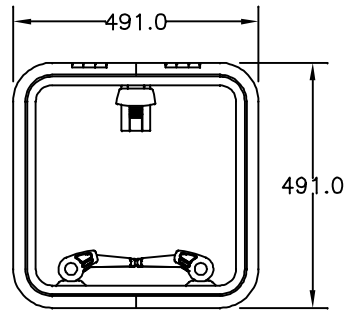
SIZE 10



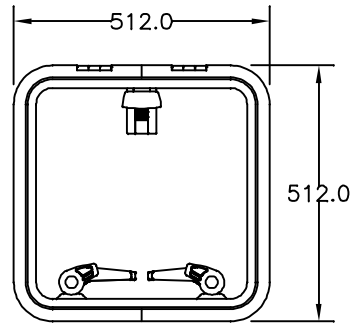
SIZE 20



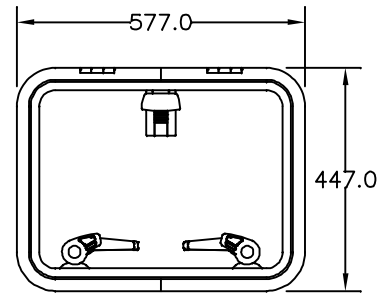
SIZE 30



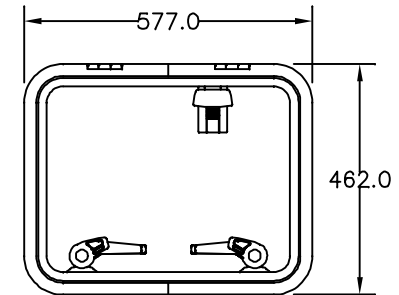
SIZE 40



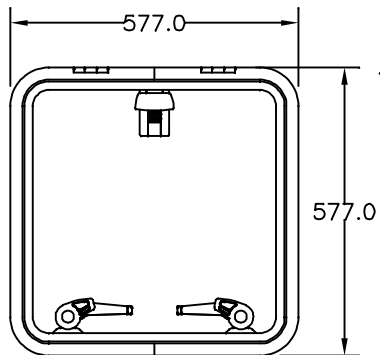
SIZE 44



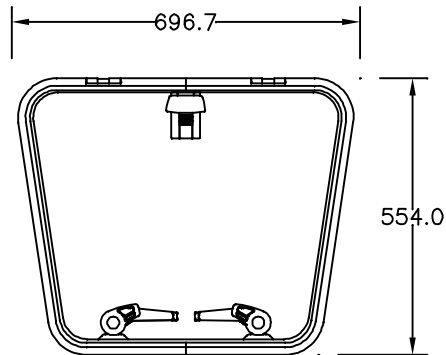
SIZE 50



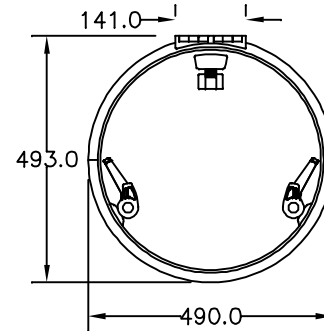
SIZE 54



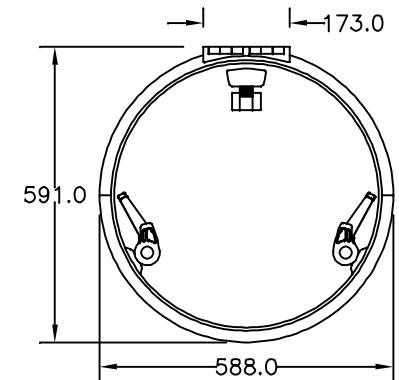
SIZE 60



SIZE 65



SIZE 18

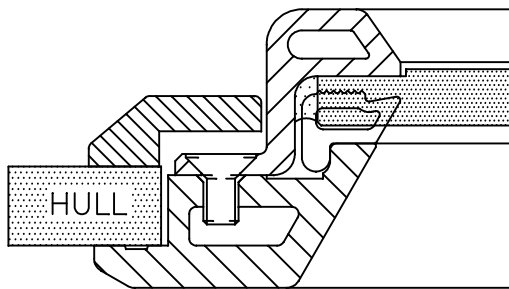


SIZE 22

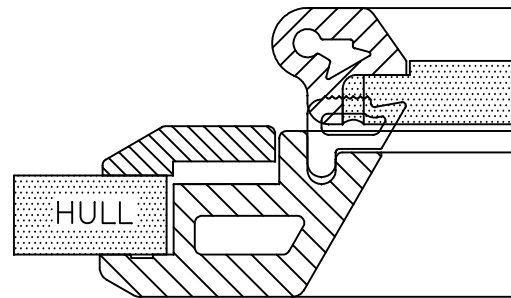
SAVED AS N:\DRAWINGS\ENQUIRY\0080-4 ISS.4 NOT TO SCALE DATE: 13-DEC-00 BY: BoB

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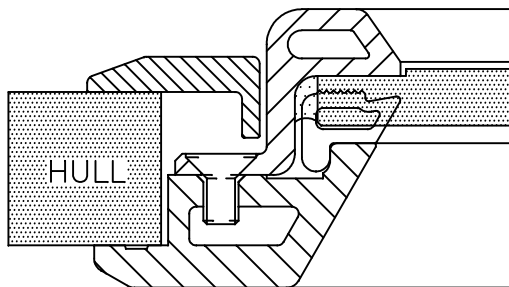
ATLANTIC PORTLIGHT & FIXEDLIGHT VALANCES & HULL THICKNESS



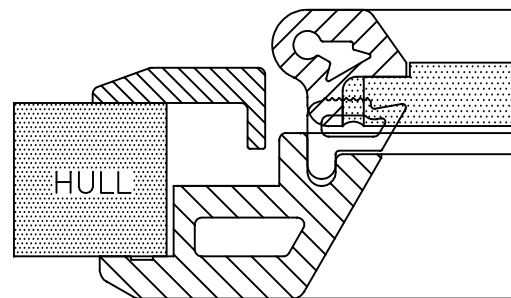
FIXEDLIGHT WITH THIN HULL (AL)
VALANCE, HULL THICKNESS
8 TO 24mm



PORTLIGHT WITH THIN HULL (AF)
VALANCE, HULL THICKNESS
8 TO 15mm

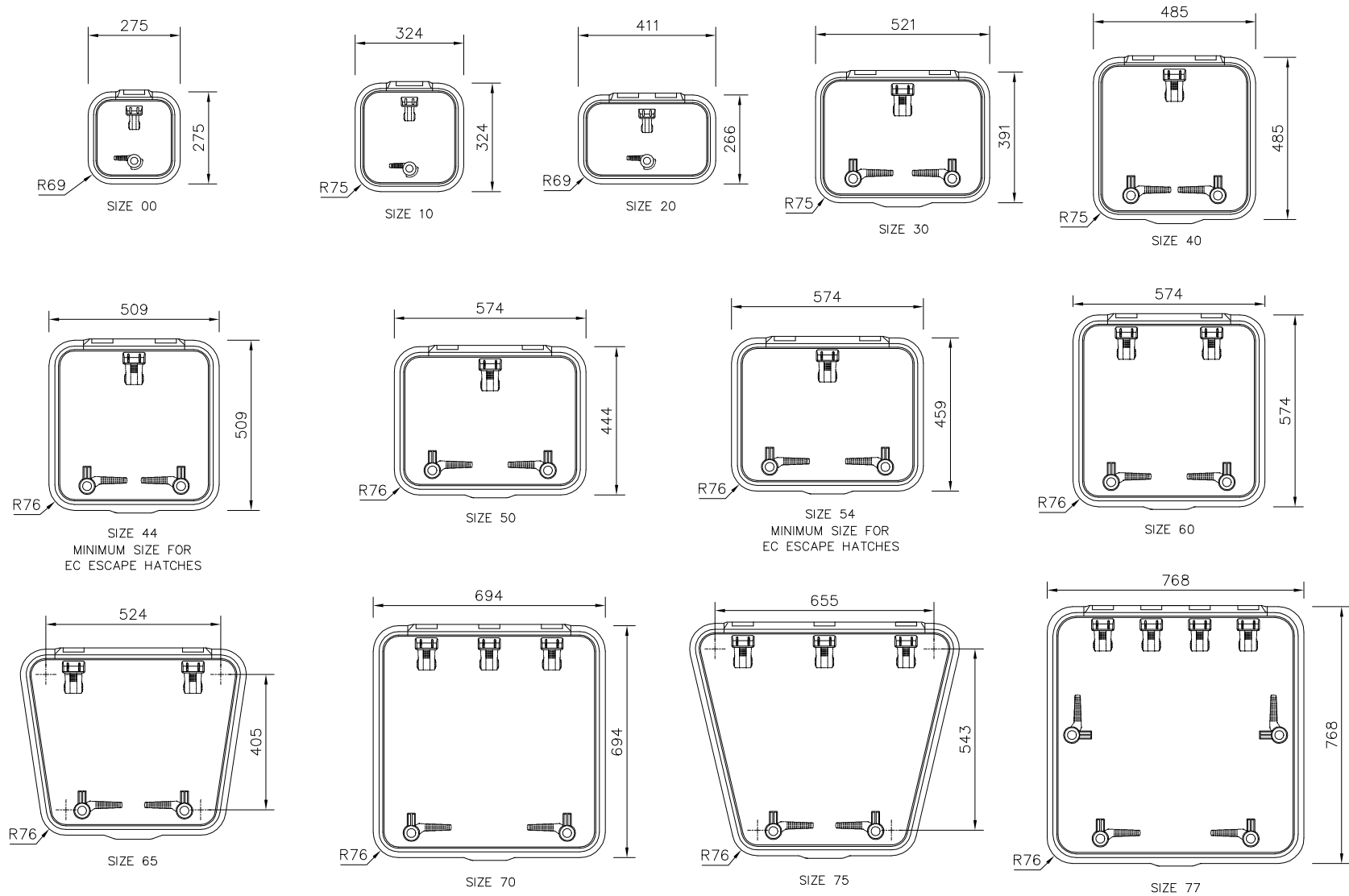


FIXEDLIGHT WITH THICK HULL (AV)
VALANCE, HULL THICKNESS
20 TO 35mm



PORTLIGHT WITH THICK HULL (AV)
VALANCE, HULL THICKNESS
16 TO 24mm NB. OPENING MAY
RESTRICTED ON THICKER HULLS

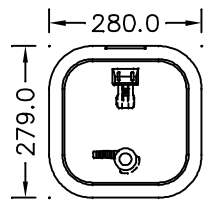
OCEAN HATCH RANGE



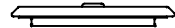
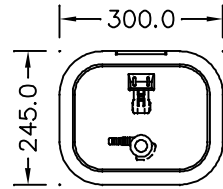
SAVED AS N:\DRAWINGS\ENQUIRY\0106 ISS.1 DATE: 07-APR-99 BY: BoB (NOT TO SCALE)

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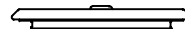
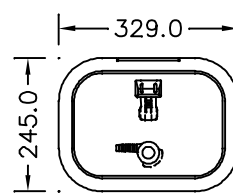
TRIMPORT (SMALL COASTLINE) RANGE



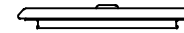
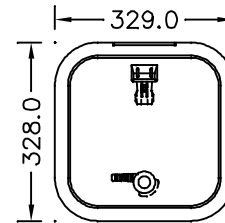
SIZE 00



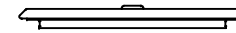
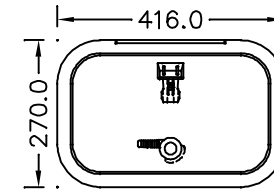
SIZE 03



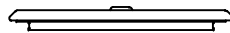
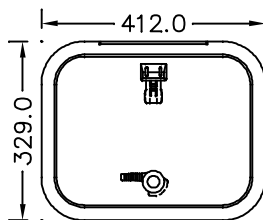
SIZE 05



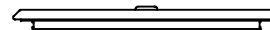
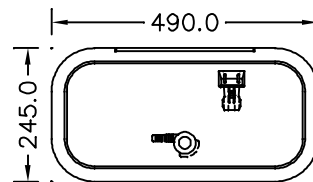
SIZE 10



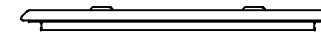
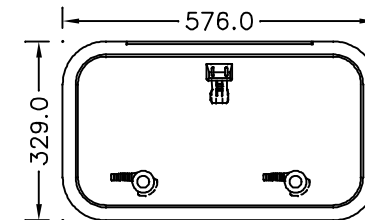
SIZE 20



SIZE 21



SIZE 41

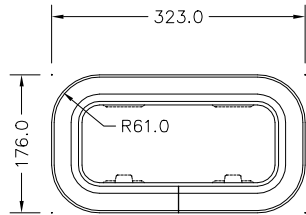


SIZE 61

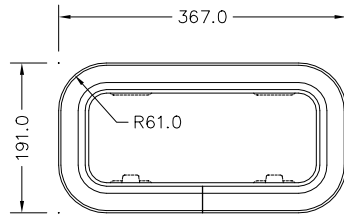
SAVED AS N:\DRAWINGS\ENQUIRY\0108 ISS.1 DATE: 16-Dec-98 BY: BoB NOT TO SCALE

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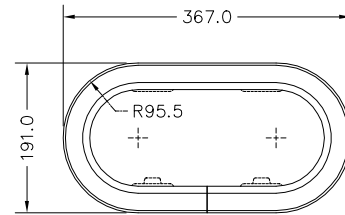
NEW STANDARD PORTLIGHT RANGE



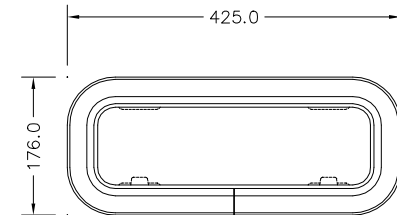
SIZE 0



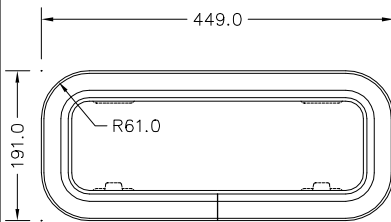
SIZE 1



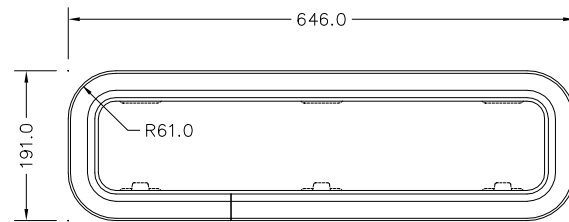
SIZE 1 ROUND END



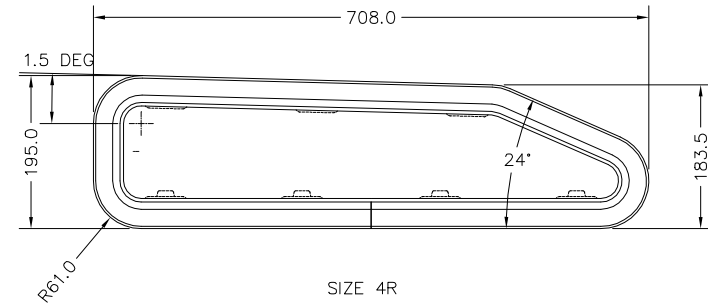
SIZE 2



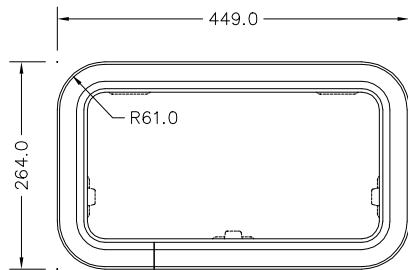
SIZE 3



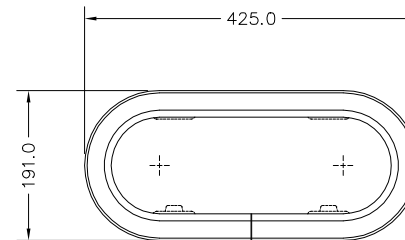
SIZE 4



SIZE 4R



SIZE 5

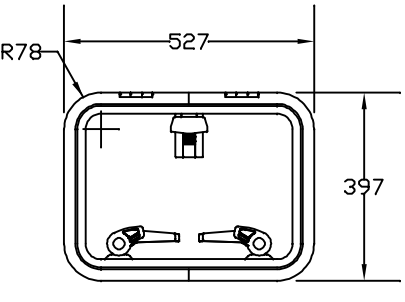


SIZE 7 ROUND END

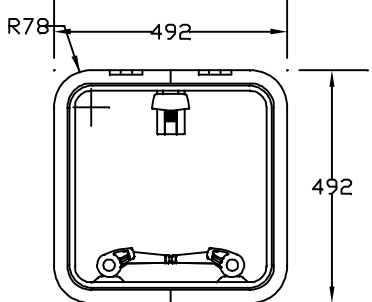
SAVED AS N:\DRAWINGS\ENQUIRY\0113-3 ISS.3 DATE: 14-JUL-99 BY:BoB (NOT TO SCALE)

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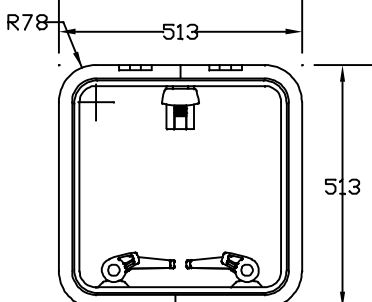
MEDIUM PROFILE HATCH RANGE



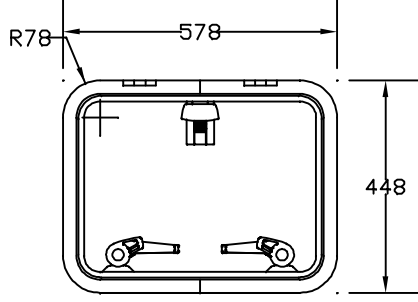
SIZE 30



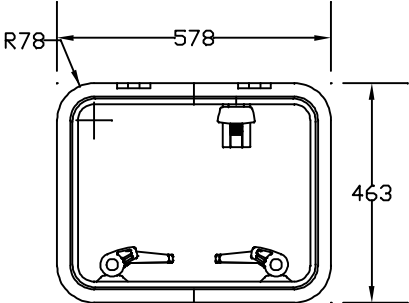
SIZE 40



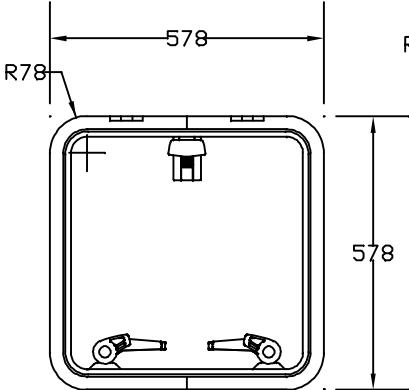
SIZE 44



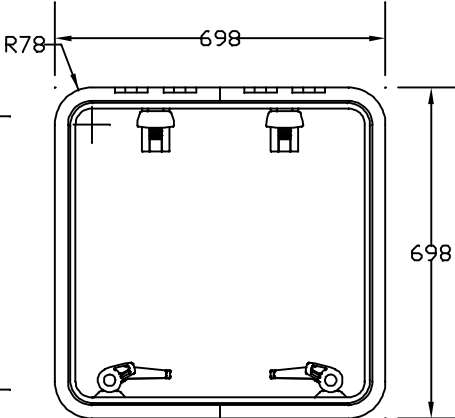
SIZE 50



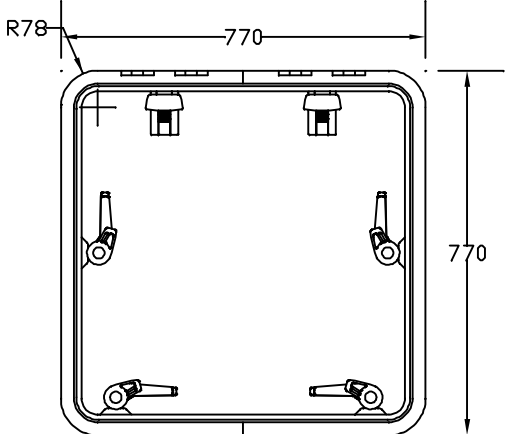
SIZE 54



SIZE 60



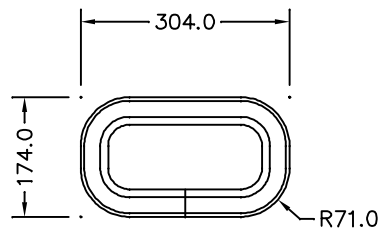
SIZE 70



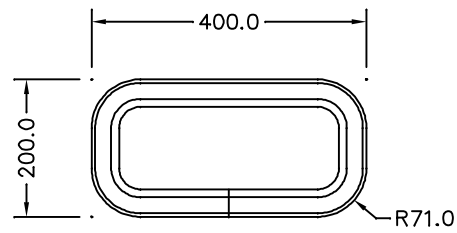
SIZE 77

SAVED AS N:\DRAWINGS\ENQUIRY\0114-3 ISS.3 NOT TO SCALE DATE: 13-DEC-00 BY: BoB

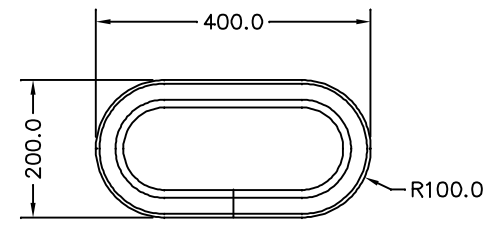
ATLANTIC PORTLIGHT RANGE



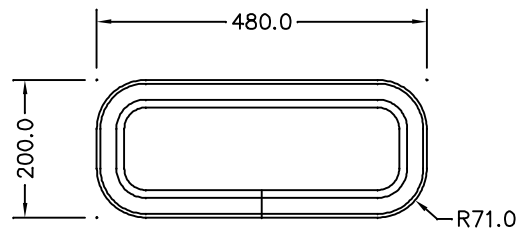
SIZE 10



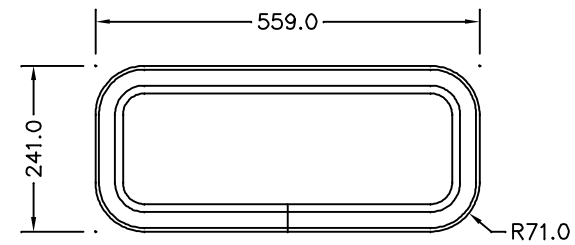
SIZE 30



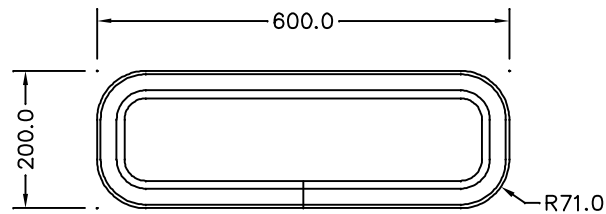
SIZE 32



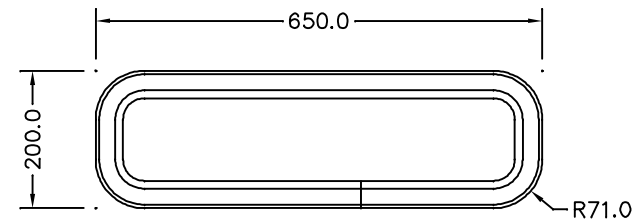
SIZE 40



SIZE 52



SIZE 60



SIZE 64

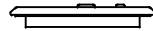
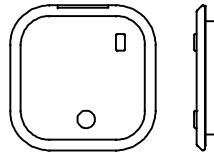
SAVED AS N:\DRAWINGS\ENQUIRY\0125 ISS.1 NOT TO SCALE DATE: 29-SEP-99 BY: BoB

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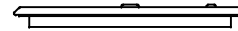
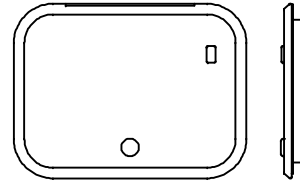
TRIMLINE RANGE



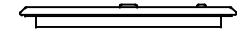
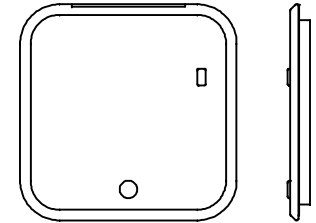
T·R·I·M·L·I·N·E
H·A·T·C·H·E·S



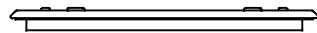
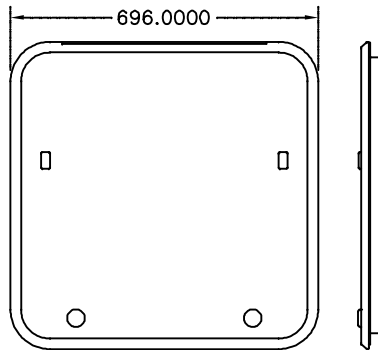
SIZE 10



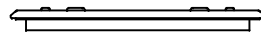
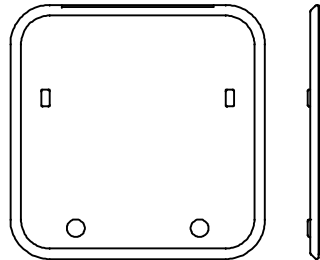
SIZE 30



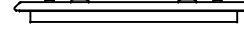
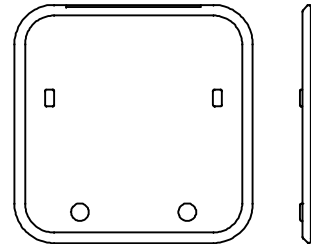
SIZE 40



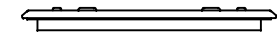
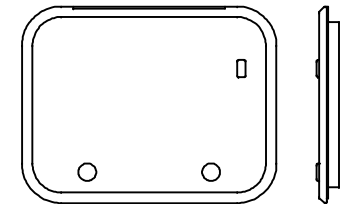
SIZE 70



SIZE 60



SIZE 55



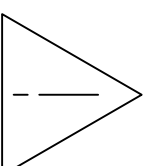
SIZE 50

SAVED AS N:\DRAWINGS\ENQUIRY\0135 ISS.1 NOT TO SCALE DATE: 01-DEC-99 BY: BoB



MEDIUM PROFILE MK1 & 2 IDENTIFICATION

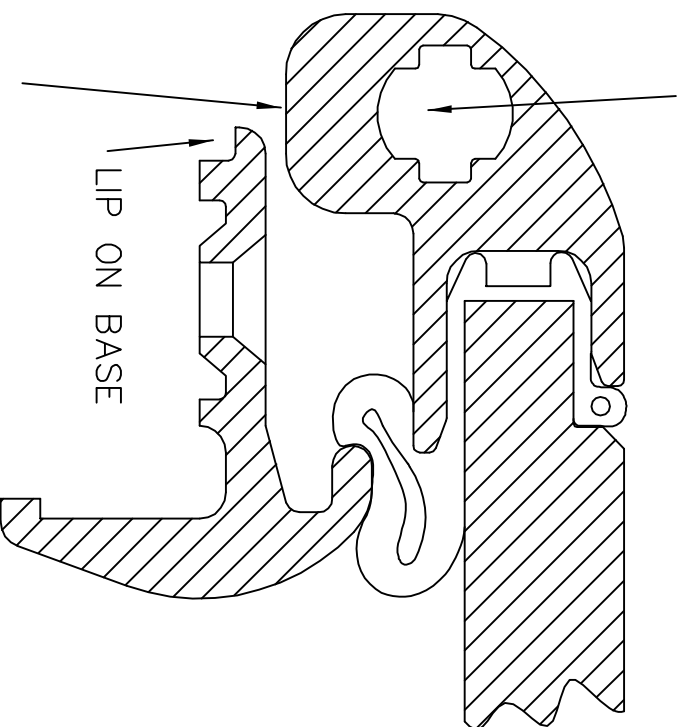
MARK 1 WAS IN PRODUCTION FROM 1998 TO 2000
MARK 2 STARTED PRODUCTION IN 2000



MARK 2 LIDS DO NOT FIT
MARK 1 LOWER FRAMES

MARK 1

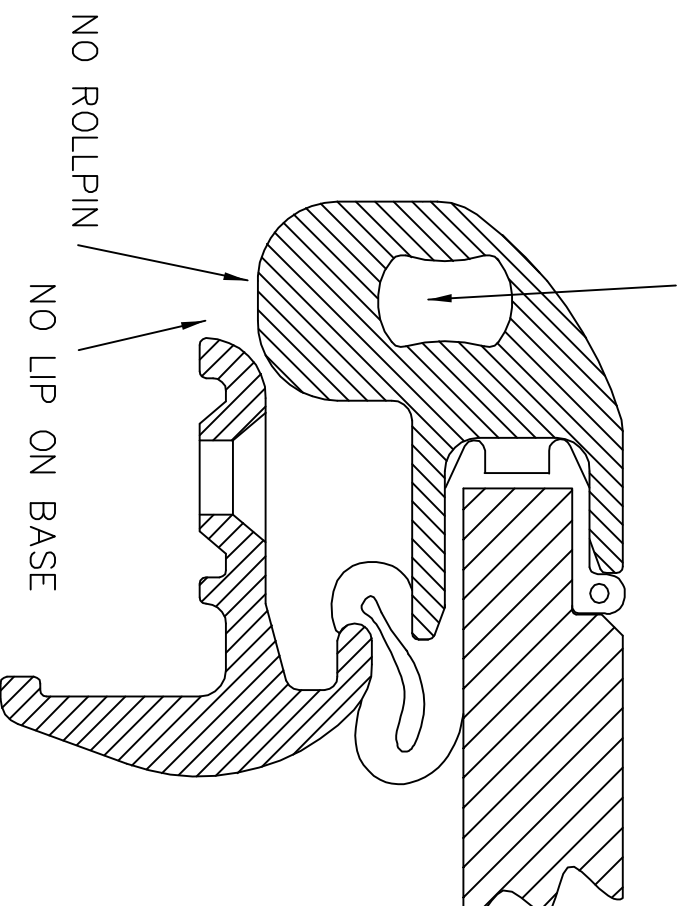
EXTRUSION CAVITY SHAPE



END OF ROLLPIN VISIABLE ON THIS
SURFACE EACH SIDE OF HINGE

MARK 2

EXTRUSION CAVITY "DOG BONE" SHAPE



NO ROLLPIN

NO LIP ON BASE

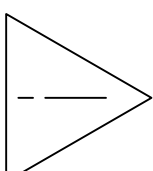
SAVED AS N:\DRAWINGS\ENQUIRY\0177-2 ISS:2 DATE: 21-AUG-02 BY: BOB (NOT TO SCALE)

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LOW PROFILE MK1 & 2 IDENTIFICATION

MARK 1 WAS IN PRODUCTION FROM 1996 TO 2000

MARK 2 STARTED PRODUCTION IN 2000

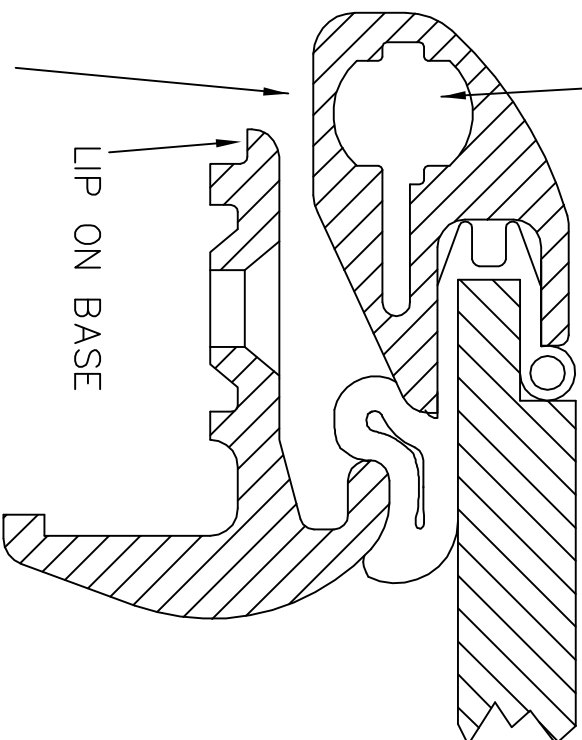


MARK 2 LIDS DO NOT FIT
MARK 1 LOWER FRAMES

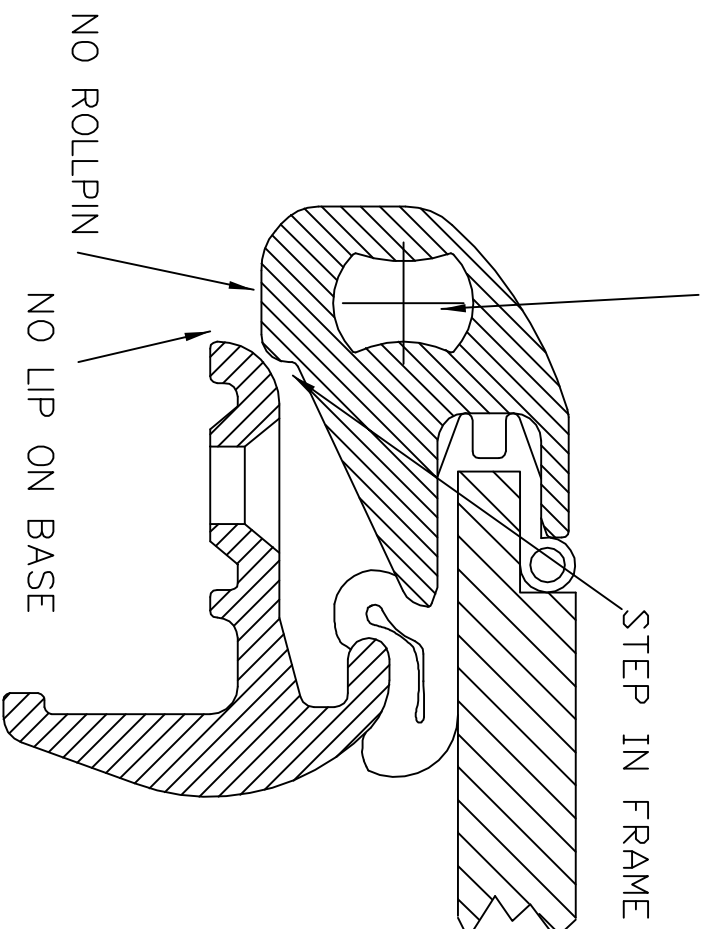
MARK 1

MARK 2

EXTRUSION CAVITY SHAPE



EXTRUSION CAVITY "DOG BONE" SHAPE

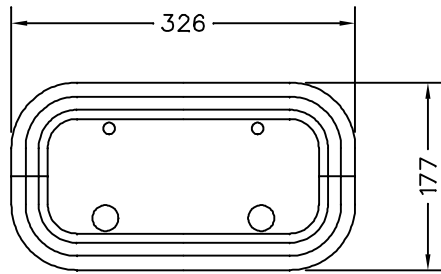


END OF ROLLPIN VISIABLE ON THIS
SURFACE EACH SIDE OF HINGE

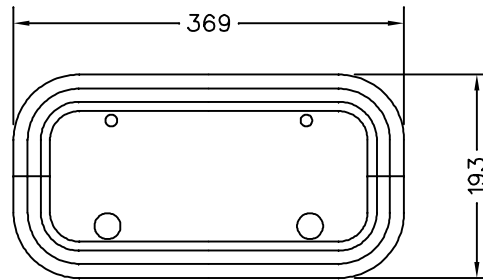
SAVED AS N:\DRAWINGS\ENQUIRY\0180-2 ISS:2 DATE: 21-AUG-02 BY: BOB (NOT TO SCALE)

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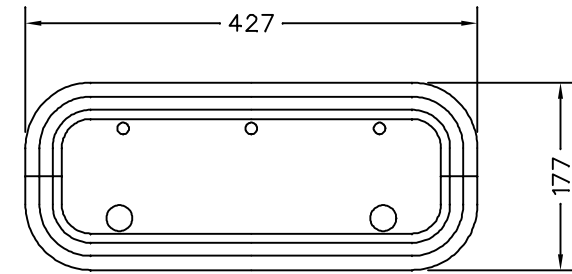
(OLD) STANDARD PORTLIGHT RANGE



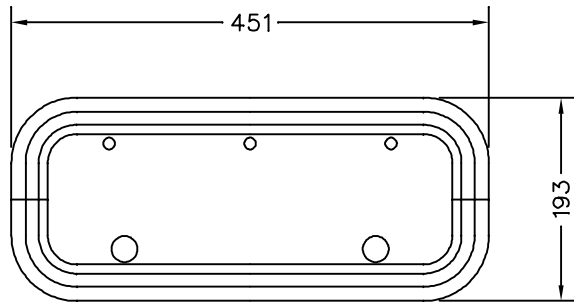
SIZE 0



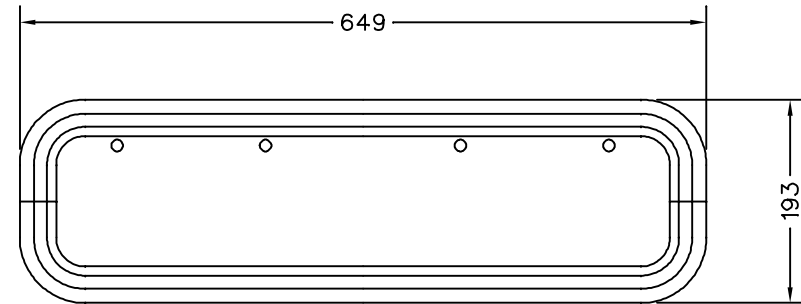
SIZE 1



SIZE 2

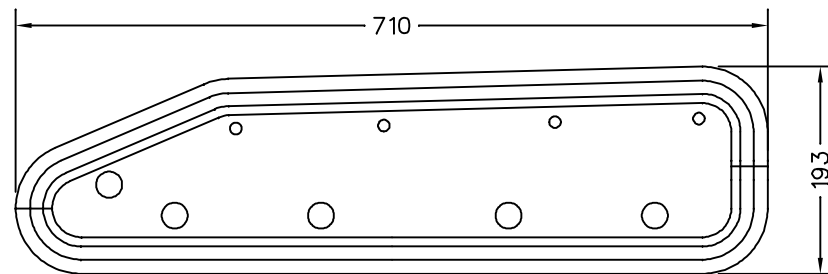


SIZE 3



SIZE 4

SIZE 5 NOT SHOWN
266 x 451 OVER ALL

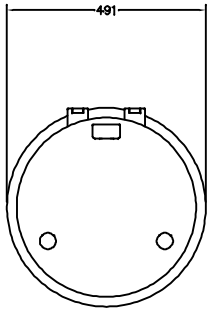


SIZE 4L

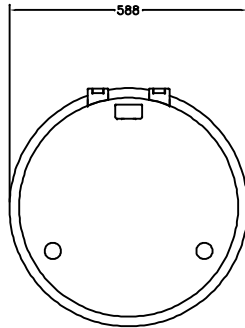
SAVED AS N:\DRAWINGS\ENQUIRY\0209 ISS.1 DATE: 18-APR-02 BY:BoB (NOT TO SCALE)

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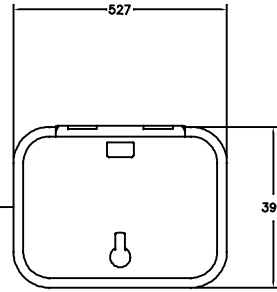
COASTLINE HATCH RANGE



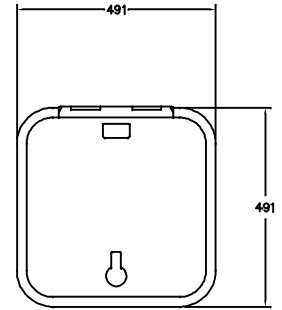
SIZE 18



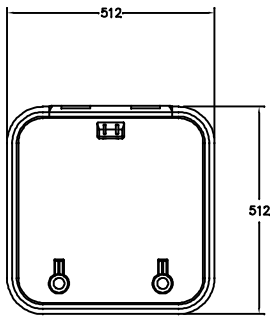
SIZE 22



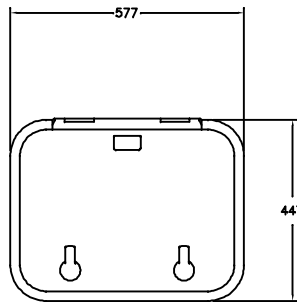
SIZE 30



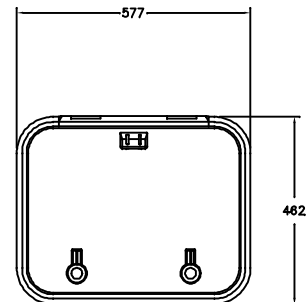
SIZE 40
(ALSO WITH 2 HANDLES)



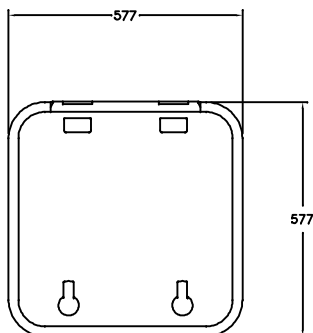
SIZE 44



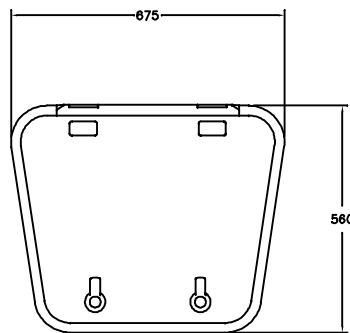
SIZE 50



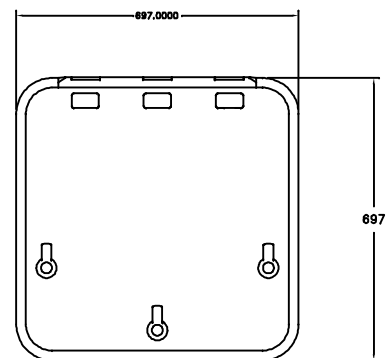
SIZE 54



SIZE 60



SIZE 65

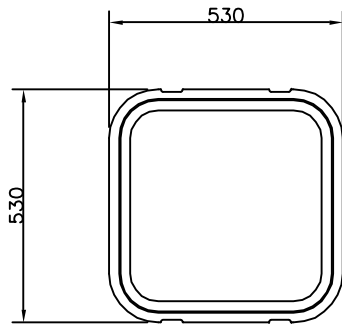


SIZE 70

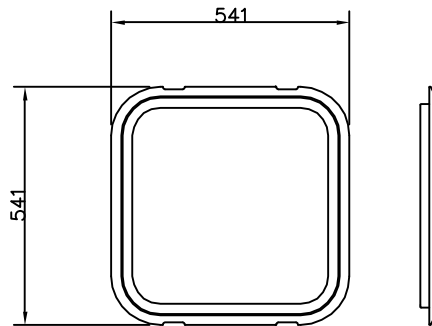
SAVED AS N:\DRAWINGS\ENQUIRY\0210 ISS.1 DATE: 20-APR-02 BY: BoB NOT TO SCALE

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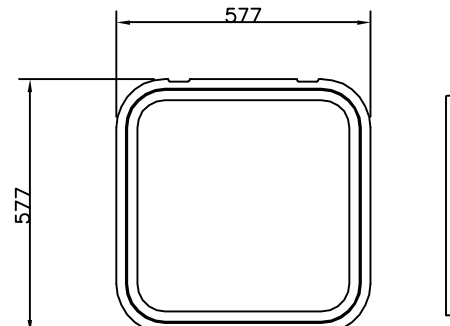
CONCEPT HATCH RANGE



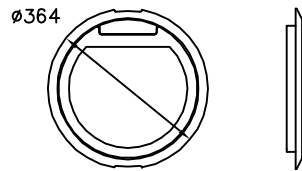
SIZE 55



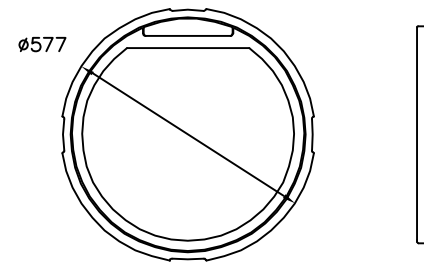
SIZE 57



SIZE 60



SIZE 13



SIZE 22

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LEWMAR®

Old Standard Portlight

Overall, Cutout, Opening & Acrylic Dimensions

Enq Dwg 0234

Iss. 1

18-Aug-03

Portlight Size	Old Name For Size	Portlight Overall Dims		Portlight Cutout Dims		Portlight Opening Dims		Flyscreen		Acrylic Overall Dims		Trim Overall Dims (aperture = -26)	
		Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)
0	4 x 10	177	323	156	303	109	256	109	255	117	264	152	299
1	5 x 12	193	369	171	347	124	300	125	300	132	309	167	343
2	4 x 14	177	427	156	405	109	358	109	358	117	367	152	401
3	5 x 15	193	451	171	429	124	382	125	382	132	392	167	425
4	5 x 23	193	649	171	627	124	580	124	586	132	588	167	623
4L or 46	n/a	Tapered	710	Tapered	688	Tapered	641			Tapered	649	Tapered	649
4R or 44	n/a	Tapered	710	Tapered	688	Tapered	641			Tapered	649	Tapered	649
5	7 x 15	266	451	244	429	197	382	196	381	205	392	240	425
see table	3 x 15	148	451	125	428					86	392		

3 x 15 Old Standard Portlight P/N's (New St. = Sz 6)

Current P/N	Very Old P/N	Portlight Spec.
300.230.00	none	Grey acrylic, silver frame, white trim cut 39mm
300.497.00	none	White trim cut 39mm
398.999.910	HSK0643	Grey acrylic, silver frame, ivory trim cut 39mm
398.999.946	HSK0360	Green acrylic, silver frame, black mouldings, white trim cut 12mm
398.999.947	none	Clear acrylic, silver frame, black mouldings, white trim cut 39mm
398.999.999	HSK0516	Green acrylic, silver frame, white trim cut 12mm

New Standard Portlight

Overall, Cutout, Opening, Acrylic and Trim Dimensions

Enq Dwg 0235

Iss. 1

18-Aug-03

Portlight Size	Portlight Overall Dims		Portlight Cutout Dims		Portlight Opening Dims		Flyscreen		Acrylic Overall Dims *		Trim o/all dimesions		Trim inside dims (not in way of handle or hinge)		Number of Clamp Ring Fastenings
	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	
0	176	323	156	303			109	256	119	266	180	328	129	276	12
1	191	367	171	347			128	300	134	310	195	372	144	320	12
1RE							125	301							8
2	176	425	156	405			109	358	119	368	180	429	129	378	16
3	191	449	171	429			125	382	134	392	195	453	144	402	16
4	191	646	171	627			125	581	134	589	195	651	144	599	16
4L or 46	Tapered	708	Tapered	688					Tapered	651	Tapered	609	Tapered	661	18
4R or 44	Tapered	708	Tapered	688					Tapered	651	Tapered	609	Tapered	661	18
5	264	449	244	429			196	381	207	392	269	453	217	402	15
6									89	392					14
7RE							125	358							8

* Excluding Handle & Hinge Lugs

Atlantic Portlight Specifications

Enq Dwg 0236

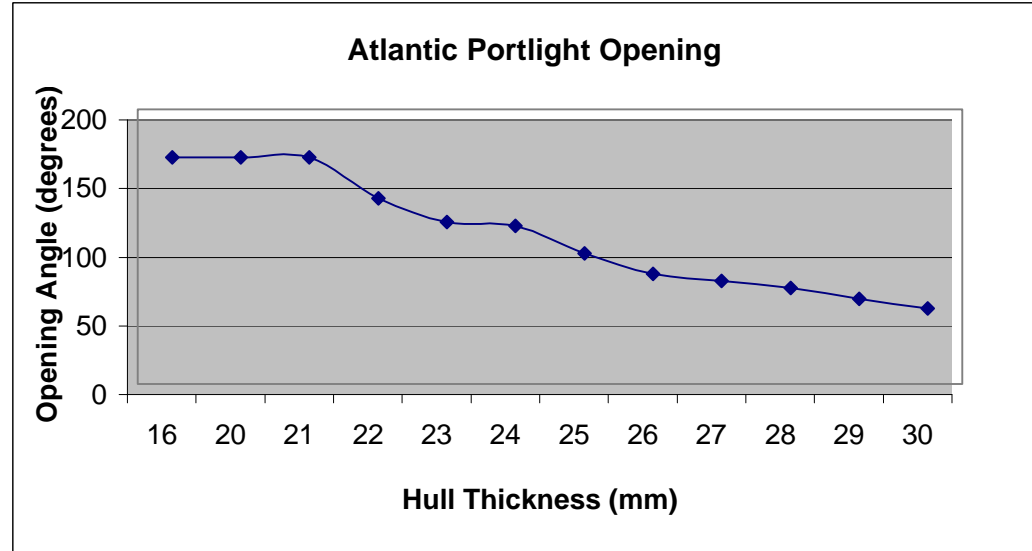
Iss. 1

18-Aug-03

Size	Overall Dimensions			Cut Out Dimensions			Portlight Opening Dimensions			Flyscreen	
	Width (mm)	Length (mm)	Radii (mm)	Width (mm)	Length (mm)	Radii (mm)	Width (mm)	Length (mm)	Radii (mm)	Width (mm)	Length (mm)
10	174	304	71	154	284	61	154	284	61	93	223
30	200	400	71	180	380	61	180	380	61	119	319
32	200	400	100	180	380	90	180	380	90	117	319
40	200	480	71	180	460	61	180	460	61	119	399
52	241	559	71	221	539	61	221	539	61	160	478
60	200	600	71	180	580	61	180	580	61	119	519
64	200	650	71	180	630	61	180	630	61	119	569

Atlantic Sz 30 Opening Angles v Hull Thickness

Hull Thickness (mm)	Opening Angle (degrees)	Comments
16	165	
20	165	
21	165	Contact with frame
22	135	Contact at corner radii
23	118	
24	115	
25	95	
26	80	
27	75	
28	70	
29	62	
30	55	



3) Use two Allen keys to turn the Jacking Screws of the Friction Hinge so that they move towards each other on their threads.



They may then be removed. When the Jacking screws are re-installed, it does not matter whether the thicker or thinner part is to the centre of the hatch



4) Support the lid and pull the black Friction Tapers into the middle of the Lower Hinge. This will free the lid from the base.

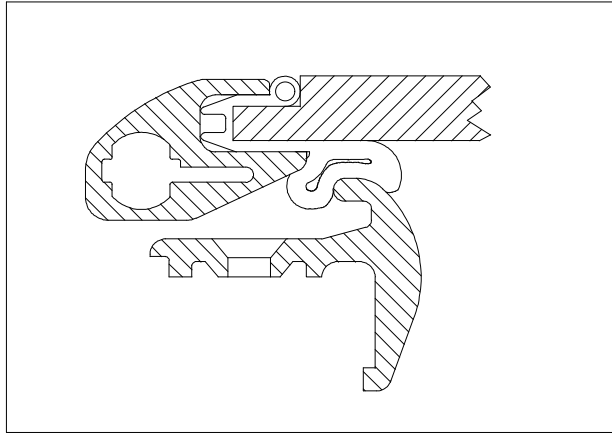


Smaller hatches have a short Friction Hinge which works in the same way. The lid may now be lifted free.



REMOVING THE ACRYLIC FROM THE LID

The drawing shows a cross sections of the hatch .



- 5) Remove the screws from one side of each join in the Upper Frame.



- 6) Slide the two parts of the upper frame off the acrylic. The seal should remain with the acrylic. The Joining Inserts should remain attached to one half of the upper frame.



- 7) The seal is stretched over the Acrylic but may have been glued in place to aid assembly. If the seal is removed from the acrylic the acrylic will need cleaning, solvents should not be used.

RE-ASSEMBLING THE LID

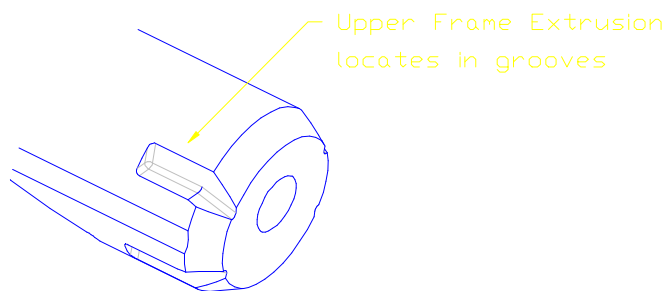
The procedure for assembling the lid is the reverse of taking it apart.

Care should be taken not to bunch up the seal as the frames are slid into place. A strong solution of washing up liquid should be used as a lubricant to help the frame slide over the seal. This should be completely rinsed off before re-installing the lid. The Joining Inserts are a loose fit in the Upper Frames and are coated in black PTFE to prevent them becoming corroded in place.

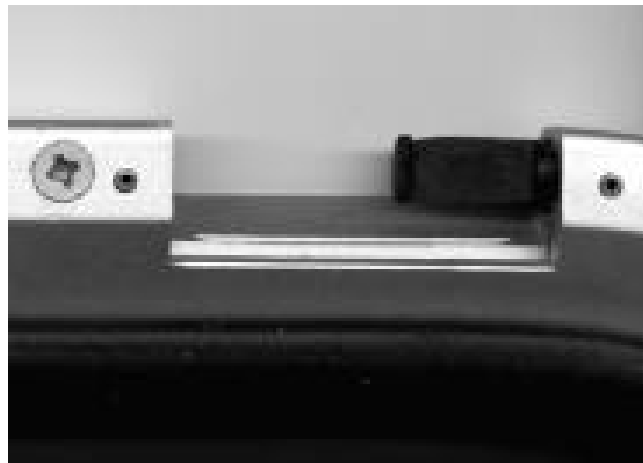
FITTING THE LID TO THE LOWER FRAME

The procedure for fitting the Lid to the Lower Frame is the reverse of removing it.

For the Friction Hinge to work the Friction Tapers must be installed in the correct way. One Taper has a recess in the end for the Jacking Screws to locate into. The other Friction Taper has cut outs which locate in the Upper Frame forcing the taper to turn with the frame.



The correct fitting of this Taper should be checked before the Lid is offered up to the Lower Frame



The Taper should then be removed so that it can be fitted through the Lower Hinge when the Lid is fitted

