

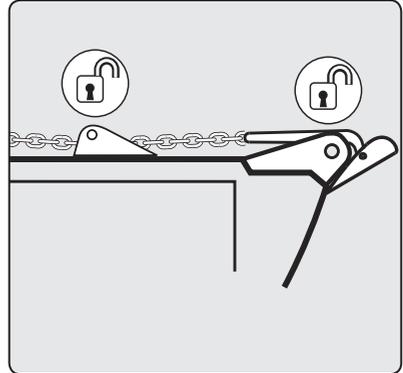
## 5. Operation

### 5.1 Braked anchor free-fall

Use this method for quicker anchor deployment and to save battery power.

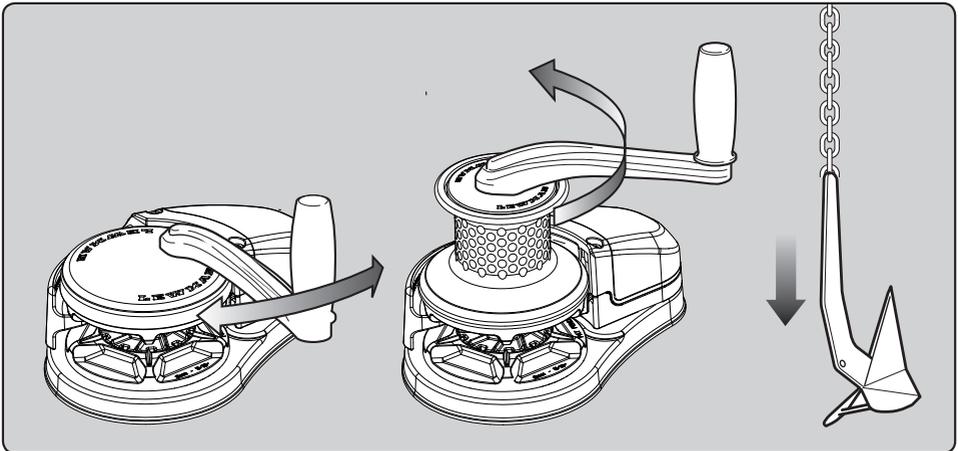
#### Gypsy only

- Release any anchor locks and when safe rotate handle anti-clockwise until anchor pays out.
- Adjust rate of fall with handle.  
Once paid out fully tighten gypsy drive cap.



#### Gypsy/drum

- Place a Lewmar handle into the drum top nut and operate as gypsy version above.



⚠ WARNING! Isolate the windlass using circuit breaker/isolator.

⚠ WARNING! Always remove winch handle after use.

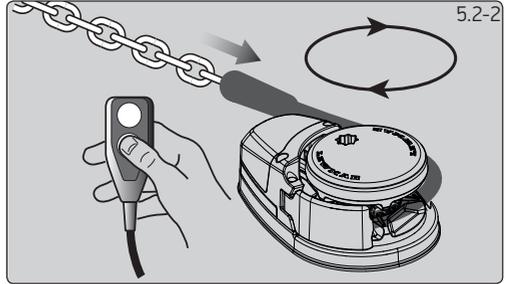
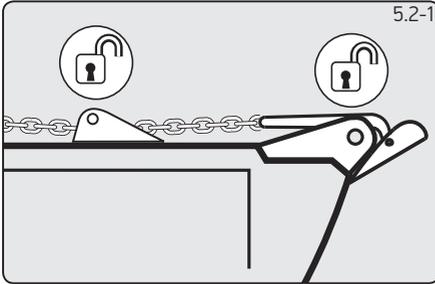
## 5.2 Power up/down

### To release anchor.

1. Release any anchor locks.
2. When safe, operate DOWN control.

### To retrieve anchor.

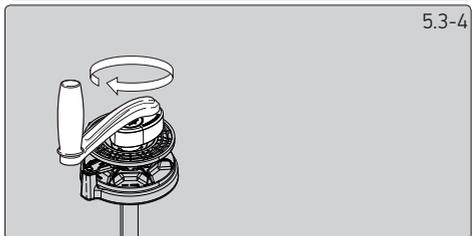
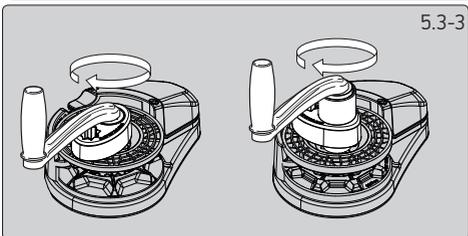
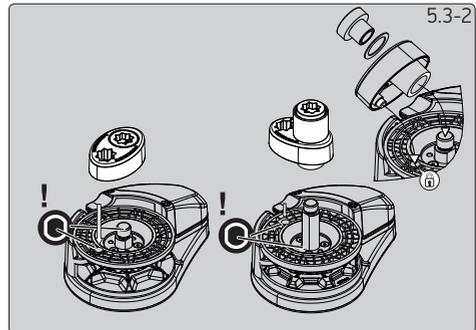
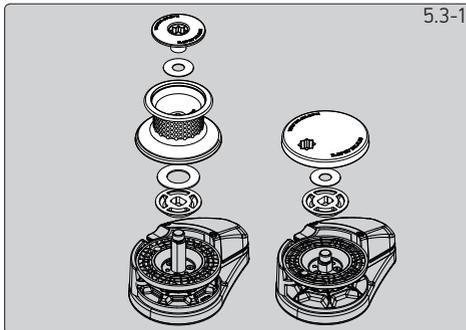
- Retrieving the anchor is the reverse to the above.
- When safe, operate the UP control.
- Once anchor is retrieved, ensure it is adequately secured to an independent strong point.



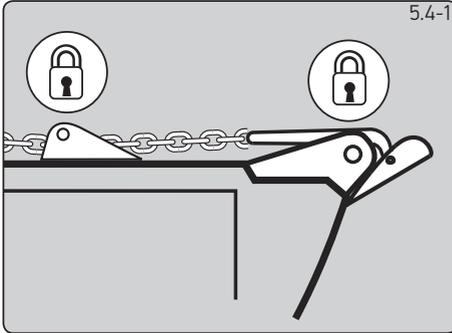
## 5.3 Optional manual recovery kits (VX2/3 ONLY)

- VX2/3 Gypsy No.66120009
- VX2/3 Gypsy/drum No.66120010

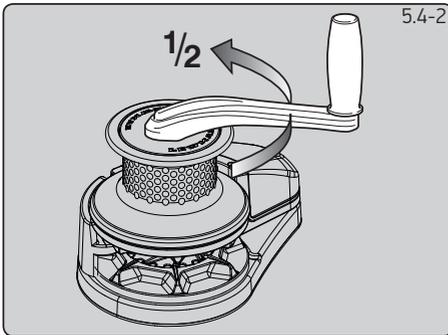
⚠ WARNING! Isolate the winch using circuit breaker/isolator.



## 5.4 Independent warping



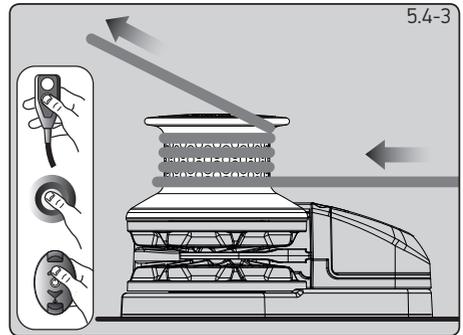
⚠ **WARNING!** Always remove winch handle after use.



### Gypsy/drum only

1. Lock anchor chain before warping.
2. Place a Lewmar winch handle into top nut. Disengage clutch by turning anti-clockwise by half a turn. Remove handle.
3. When safe, operate the drum. If warping speed is too fast, ease tension in rope. When finished re-engage clutch by tightening the drum top nut.

⊘ **DO NOT** wrap chain around the capstan drum.



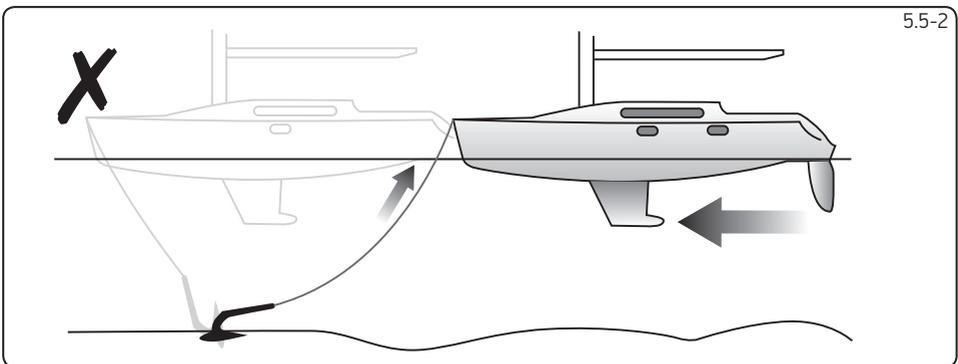
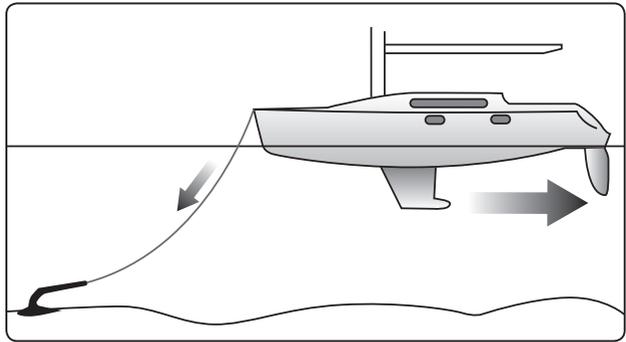
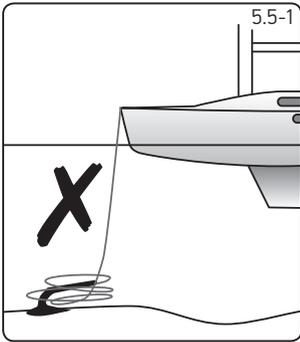
## 5.5 Operating tips

Vessels at anchor will snub on the rode and this can cause slippage or apply excessive loads to the windlass.

1. When anchoring, power rode out allowing the vessel to take up stern away preventing the rode tangling with anchor. Use this method for mooring stern first to a jetty.
  2. To aid recovery, under power, move vessel towards anchor but not over and beyond, as this can cause damage to topside.
- As anchor approaches the vessel, use careful adjustments of controls to avoid damaging vessel.
  - Scope: As a guide it is recommended that the depth of chain to rope is 7 to 1 at anchor.

⊘ The rode should be secured directly to a bollard, sampson post or cleat and a chain secured by a chain stopper.

⊘ When retrieving anchor do not overload or stall in windlass.



## 6. Servicing

⚠ WARNING! Ensure rode is adequately secured to an independent strong point.

⚠ WARNING! Isolate the windlass using circuit breaker/isolator.

### 6.1 Servicing schedule

#### Regularly:

- Wash down the windlass using fresh water.
- Examine all electrical connections for corrosion, clean and lightly grease.
- Check anchor locker drain to avoid water damage to motor/gearbox.
- If anchor locker fills with water, check motor is dry and free of rust.
- Check anchor rode splice for wear.
- Check gypsy as it is a high wear item and will last longer if properly used. When re-assembling the cone and gypsy, add a small smear of grease to the contact surfaces.
- Check mounting studs after first two or three recoveries and regularly thereafter.

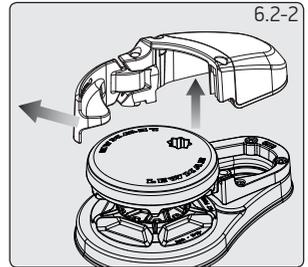
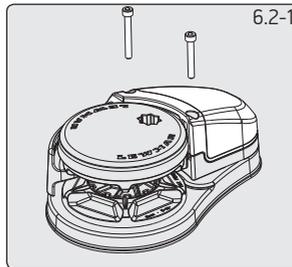
#### Annually:

- Check electric cables for damage. Repair/renew as required.
- Strip the above deck components, clean and lightly grease.
- Check motor/gearbox for corrosion, clean and repaint with a suitable marine grade oil based enamel paint.
- Remove electric motor cover and blow dust away from brushes using foot pump or similar taking care not to breathe any dust.

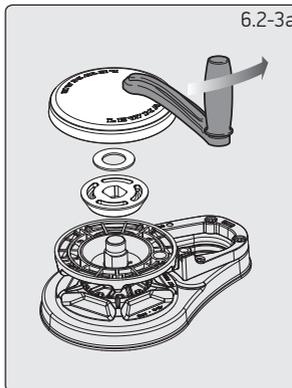
### 6.2 VX1-VX1L Gypsy replacement/service

⚠ WARNING! Isolate the windlass using circuit breaker/isolator.

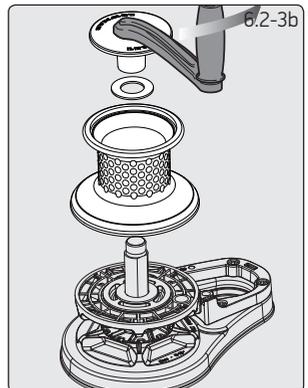
1. Remove chain cover screw using 4mm allen key
2. Pull control arm out and lift chain cover and control arm assembly from deck unit.



- 3a. **Gypsy only**  
Using windlass handle remove top cap, washer and upper cone from shaft.

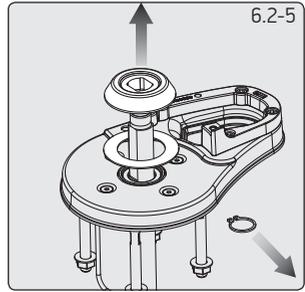
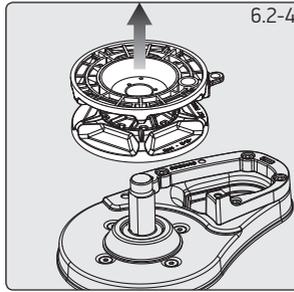


- 3b. **Gypsy/ drum**  
Using windlass handle undo drum top cap and remove drum, drum washer, upper cone washer and upper cone from shaft



4. Remove gypsy from windlass

5. If replacing lower cone and washer (included in Gypsy replacement kit), remove the cone retaining circlip from the shaft and lift off the cone and washer from the windlass.



Assemble the new gypsy in reverse order, note that the part number engraved on the stripper ring should face upwards.

When re-assembling the cone and gypsy, add a small smear of grease to the contact surfaces.

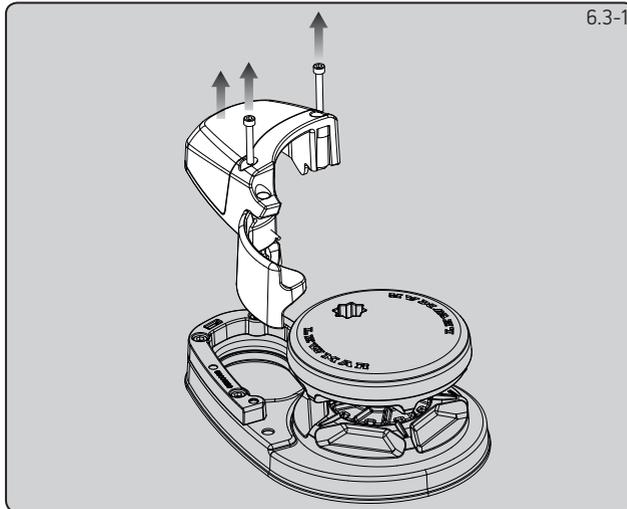
### 6.3 VX1 - VX1L Remplacement/entretien du doigt-guide

Les modèles VX1 et VX1L sont équipés d'origine d'un doigt-guide. Sur les VX1 et VX1L le doigt-guide est intégré au capot du guindeau.

Retirez le capot de chaîne et procédez comme indiqué en 6.31

1. Dévissez le capot de chaîne avec une clé Allen de 4mm.

- Retirez le doigt-guide en libérant le clip en T sur l'axe de la charnière.
- Lavez à l'eau douce propre (pas sous pression). Remplacez les éléments si nécessaire, et remontez en suivant la procédure inverse.
- Graissez les ressorts au remontage.



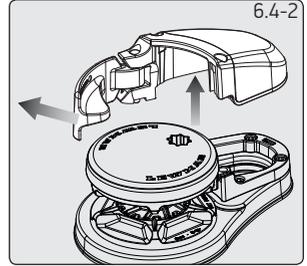
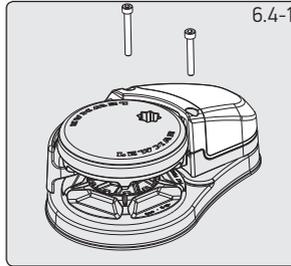
⚠ WARNING! Isolate the windlass using circuit breaker/isolator.

⚠ WARNING! Ensure rode is adequately secured to an independent strong point.

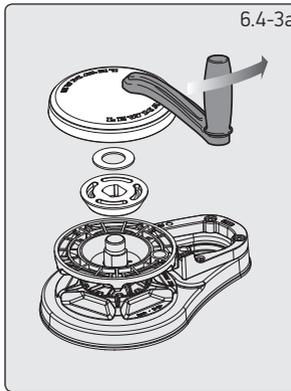
## 6.4 VX2/3 Gypsy replacement/service

⚠ WARNING! Isolate the windlass using circuit breaker/isolator.

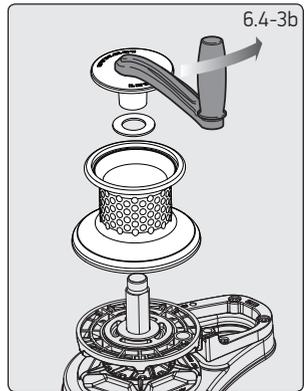
1. Remove chain cover screw using 5mm allen key
2. Pull control arm out and lift chain cover and control arm assembly from deck unit.



- 3a. **Gypsy only**  
Using windlass handle remove top cap, washer and upper cone from shaft.



- 3b. **Gypsy/ drum**  
Using windlass handle undo drum top cap and remove drum, drum washer, upper cone washer and upper cone from shaft



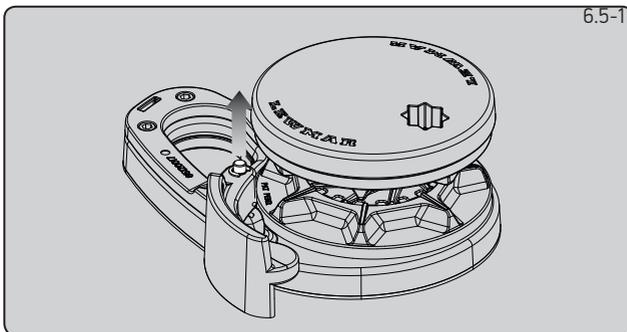
4. Remove gypsy
5. Replace ⓐ re-assemble

## 6.5 VX2/3 Control arm replacement/service

VX2/3 are factory fitted with control arms as standard.

Remove chain cover, proceed as sec.6.5-1.

1. Unscrew control arm shoulder screw using a 5 mm Allen key.
  - Remove control arm and torsion spring from the base plate.
  - Wash with clean water (Not Jetwash). Replace components, (if necessary) and assemble in reverse order
  - Grease spring on re-assembly

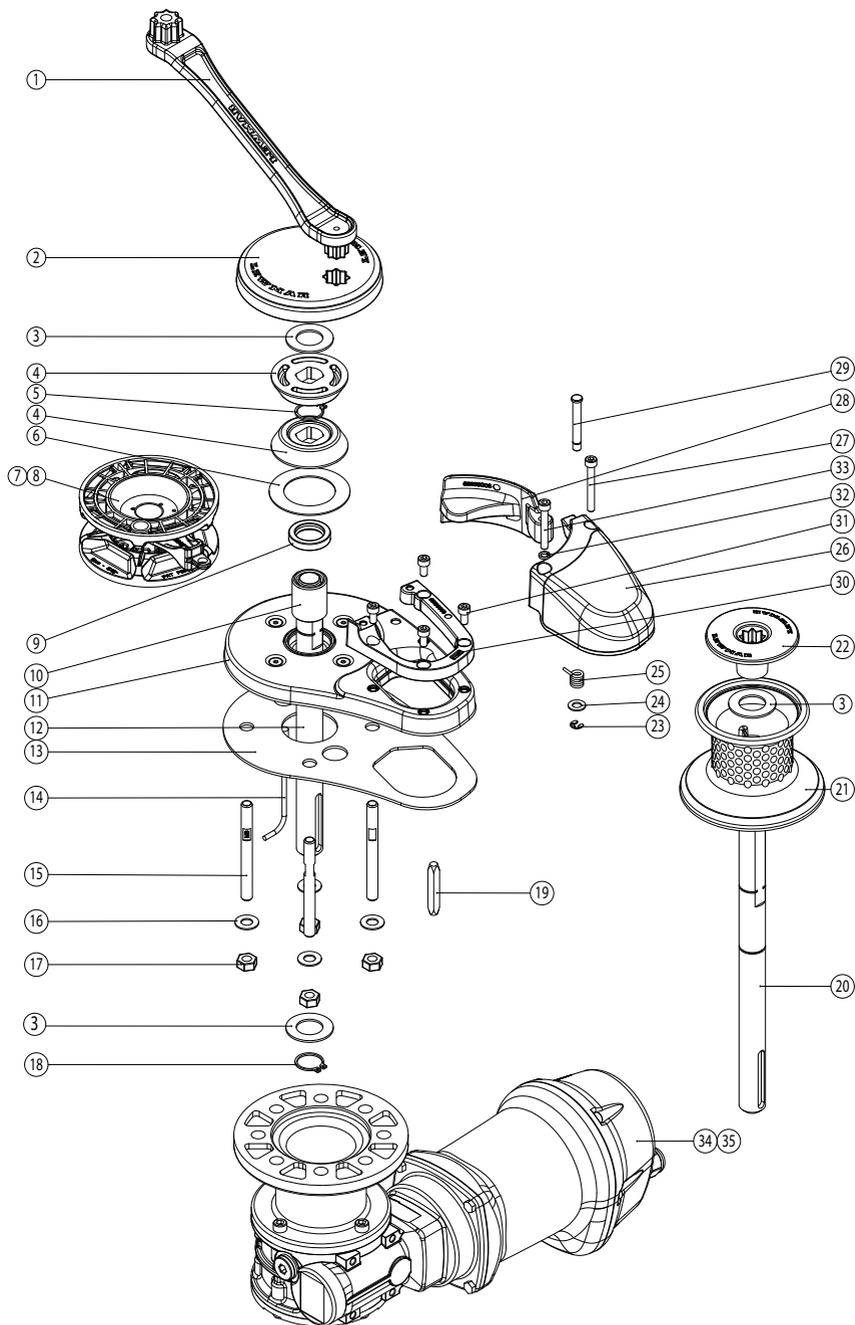


⚠ WARNING! Isolate the windlass using circuit breaker/isolator.

⚠ WARNING! Ensure rode is adequately secured to an independent strong point.

## 7. Parts List

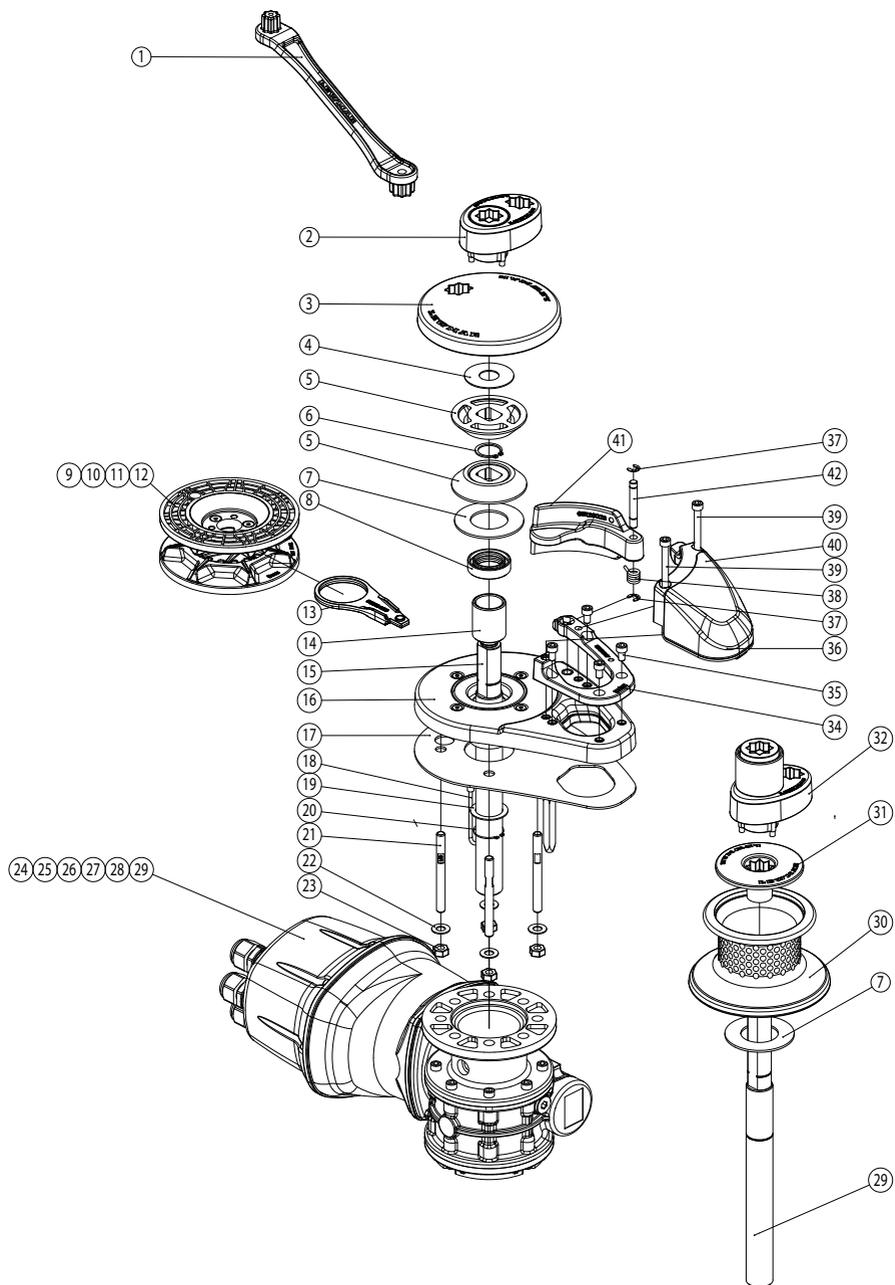
### 7.1 Parts list VX1



**7.1 Parts list VX1**

VX1 PARTS LIST		
KIT NO.	KIT DESCRIPTION	ITEMS INCLUDED (QTY.)
66000799	Windlass handle	1(1)
66100120	VX1 Gypsy Only top cap kit	2(1)
66100121	VX1 Base kit	9(1), 10(1), 11(1), 30(1), 31(4)
66100123	VX1 Chain cover and control arm kit	23(1), 24(1), 25(1), 26(1), 27(1), 28(1), 29(1), 32(1), 33(1)
66100124	VX1 Drum kit	3(1), 21(1), 22(1),
66100125	VX1 Gypsy Only drive kit	2(1), 3(1), 5(1), 12(1), 18(1), 19(1)
66100126	VX1 Gypsy Drum drive kit	2(1), 3(2), 5(1), 18(1), 19(1), 20(1), 21(1), 22(1)
66100127	VX1 Manual and kit	1(1), 13(1), 15(4), 16(4), 17(4)
68100033	VX1 8mm Gypsy Ⓢ stripper assembly	3(1), 4(2), 6(1), 7(1)
68100034	VX1 6/7mm ¼" Gypsy Ⓢ stripper assembly	3(1), 4(2), 6(1), 8(1)
68100035	VX1 12v 300W IP67 RMU40 M/GBOX	34(1)
68100036	VX1 12v 500W IP67 RMU40 M/GBOX	35(1)

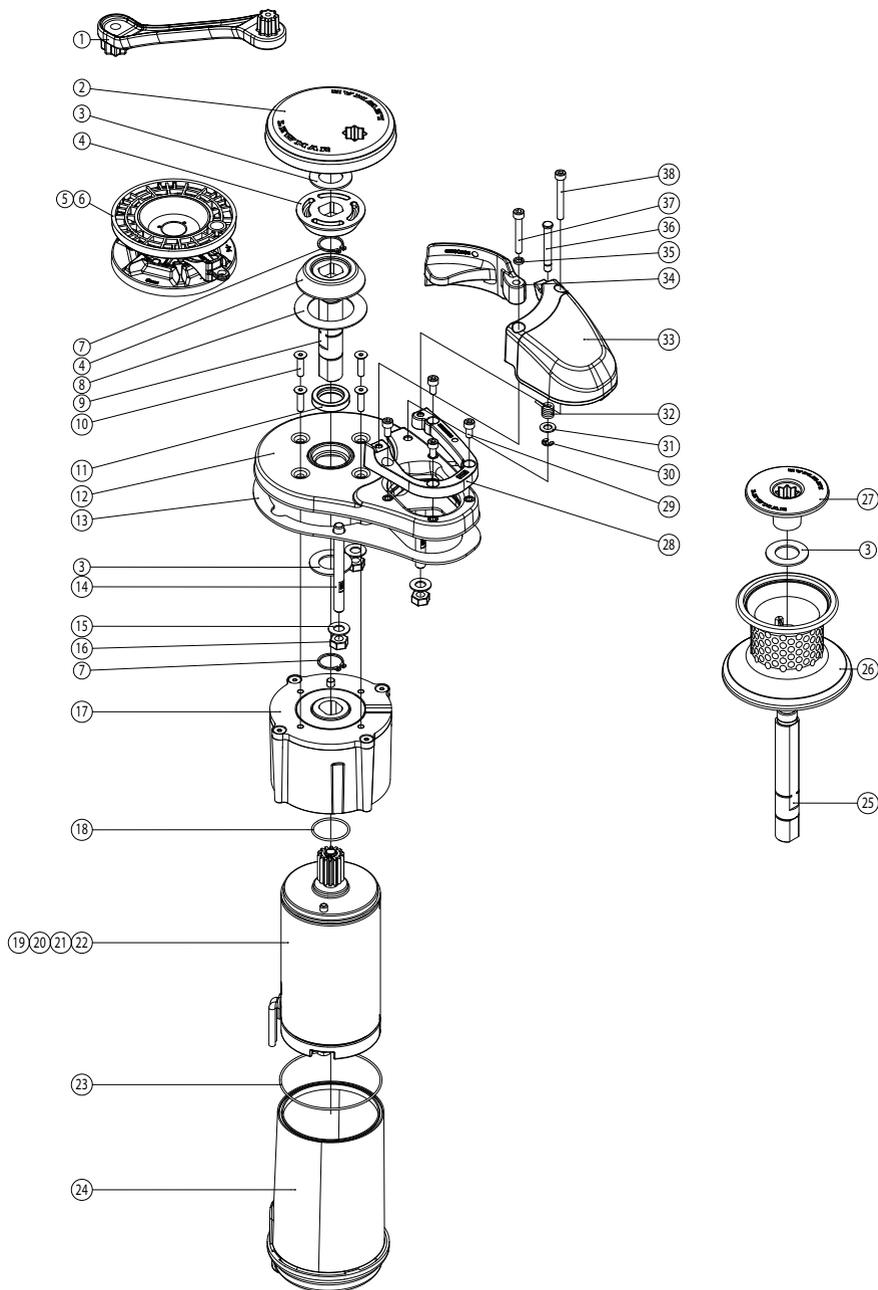
7.2 Parts list VX2/3



**7.2 Parts list VX2/3**

VX2/3 PARTS LIST		
KIT NO.	KIT DESCRIPTION	ITEMS INCLUDED (QTY)
66000799	WINDLASS HANDLE	1(1)
66120001	VX2/3 GO TOP CAP REPLACEMENT	3(1)
66120002	VX2/3 BASE KIT	8(1), 14(1), 16(1), 18(1), 34(1), 35(4), 37(1), 42(1)
66120003	VX2/3 CHAIN COVER KIT	39(2), 40(1)
66120004	VX2/3 CONTROL ARM KIT	37(2), 38(1), 41(1), 42(1)
66120005	VX2/3 DRUM KIT	7(1), 30(1), 31(1)
66120006	VX2/3 GYPSY ONLY DRIVE KIT	3(1), 6(1), 15(1), 19(1), 20(1)
66120007	VX2/3 DRUM DRIVE KIT	2(1), 2(1), 2(1), 2(1), 2(1), 2(1), 2(1), 2(1)
66120008	VX2/3 MANUAL Ⓢ KIT	1(1), 17(1), 21(4), 22(4), 23(4)
66120009	VX2/3 GO MANUAL RECOVERY RETAIL KIT	2(1)
66120010	VX2/3 GD MANUAL RECVOERY RETAIL KIT	32(1)
68120011	VX2/3 STRIPPER RING REPLACEMENT	13(1)
68120031	VX2 MOTOR G/BOX 700W 12v Sz50 IP ASSY	24(1)
68120032	VX2 MOTOR G/BOX 900W 24v Sz50 IP ASSY	25(1)
68120033	VX2+ MOTOR G/BOX 1000W 24v Sz50 IP ASSY	26(1)
68120034	VX2+ MOTOR G/BOX 1000W 12v Sz50 IP ASSY	27(1)
68120035	VX3 1500W 12v M/G-BOX	28(1)
68120036	vx3 MOTOR G/BOX 1500W 24v Sz50 IP ASSY	28(1)
68120040	GYPSY ASSY 6/7mm VX $\frac{2}{3}$ ST/ST	4(1), 5(2), 7(1), 9(1), 13(1)
68120041	GYPSY ASSY 8mm VX $\frac{2}{3}$ ST/ST	4(1), 5(2), 7(1), 9(1), 14(1)
68120042	GYPSY ASSY10mm DIN VX $\frac{2}{3}$ ST/ST	4(1), 5(2), 7(1), 9(1), 15(1)
68120043	GYPSY ASSY 10mm ISO VX $\frac{2}{3}$ ST/ST	4(1), 5(2), 7(1), 9(1), 16(1)

### 7.3 Parts list VX1L



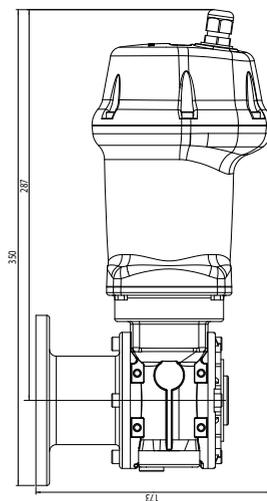
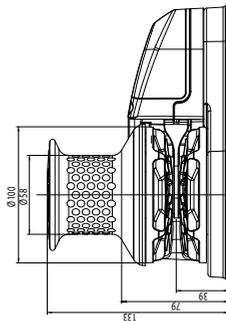
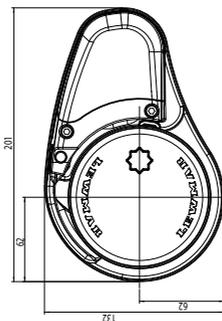
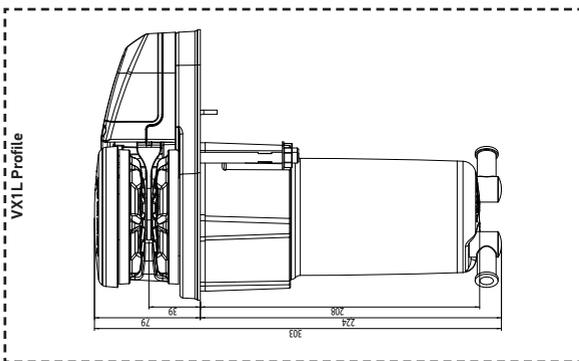
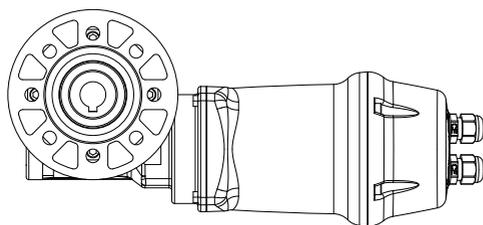
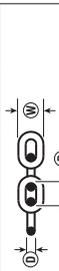
**7.3 Parts list VX1L**

VX1L PARTS LIST		
KIT NO.	KIT DESCRIPTION	ITEMS INCLUDED (QTY)
66000799	WINDLASS HANDLE	1(1)
66100120	VX1 GO TOP CAP KIT	2(1)
66100122	VX1L BASE UNIT	10(4), 11(1), 12(1), 28(1), 29(4)
66100123	VX1 CHAIN COVER ® C/ARM KIT	30(1), 31(1), 32(1), 33(1), 34(1), 35(1), 36(1), 37(1), 38(1)
66100124	VX1 DRUM KIT	3(1), 26(1), 27(1)
66100128	VX1L MANUAL AND KIT	1(1), 13(1), 14(3), 15(3), 16(3)
66100129	VX1L GO DRIVE KIT	2(1), 3(1), 7(2), 9(1)
66100130	VX1L GD DRIVE KIT	3(2), 7(2), 25(1), 26(1), 27(1)
66100135	VX1L 12v 500 M/G-BOX ASSY	17(1), 18(1), 19(1), 23(1), 24(1)
66100136	VX1L 24v 500 M/G-BOX ASSY	17(1), 18(1), 20(1), 23(1), 24(1)
66100137	VX1L 12v 800 M/G-BOX ASSY	17(1), 18(1), 21(1), 23(1), 24(1)
66100138	VX1L 24v 800 M/G-BOX ASSY	17(1), 18(1), 22(1), 23(1), 24(1)
66100139	VX1L/HX1 12v 500 MOTOR ASSY	19(1)
66100140	VX1L/HX1 24v 500 MOTOR ASSY	20(1)
66100141	VX1L/HX1 12v 800 MOTOR ASSY	21(1)
66100142	VX1L/HX1 24v 800 MOTOR ASSY	22(1)
68100033	VX1 8mm GYPSY ST/ST STRIPPER ASSY	3(1), 4(2), 5(1), 8(1)
68100034	VX1 6/7mm ¼" GYPSY ASSY ST/ST	3(1), 4(2), 6(1), 8(1)

## 8. Specifications

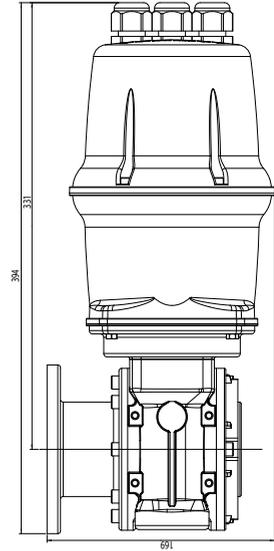
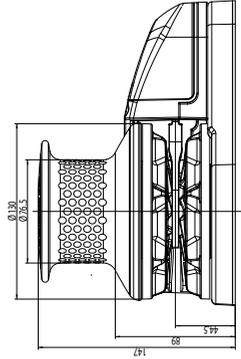
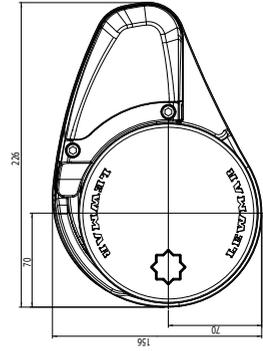
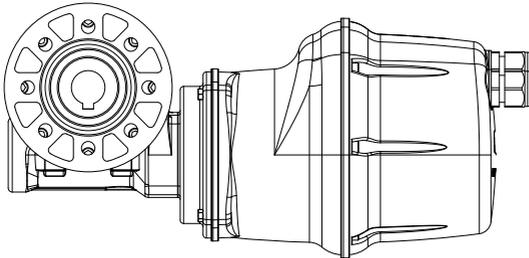
### 8.1 VX1 Dimensions

D (mm)	D (inch)	P (mm)	P (inch)	W (mm)	W (inch)
6	0.236	18	0.709	21.6	0.85
6 mm ISO 4565		18.5	0.728	20.4	0.803
6 mm Din766		21	0.826	23	0.905
7 mm ISO 4565		22	0.866	23.8	0.937
7 mm Din766		21.3	0.840	24.4	0.962
1/4" G40		22.1	0.870	25.2	0.992
1/4" BBB		8	0.315	24	0.945
8 mm ISO 4565		8	0.315	24	0.945
8 mm Din766		8.4	0.329	26.2	1.030
5/16" G40				29.7	1.168



**8.2 VX2/3 Dimensions**

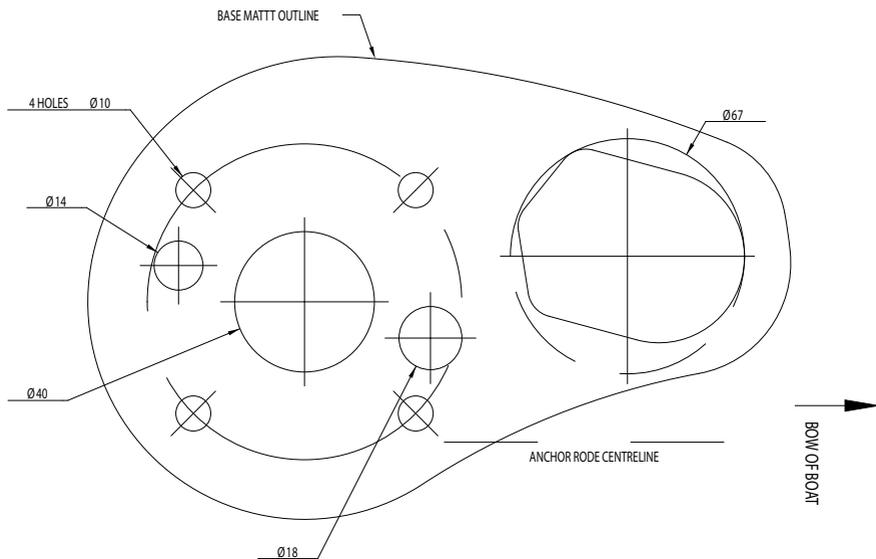
					D		P		W		
					(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
68120040	6	6 mm ISO 4565	12-16 mm (½ - ¾") 3 Strand and 8 Plait	6	0.236	18	0.709	21.6	0.85	20.4	0.803
	6	6mm Din766		6	0.236	18.5	0.728	20.4	0.803	23	0.905
	7	7mm ISO 4565		7	0.276	21	0.826	23.8	0.937	24.4	0.962
	7	7mm Din766		7	0.276	22	0.866	23.8	0.937	25.2	0.992
	7	¾" G40		7	0.276	21.3	0.840	24.4	0.962	25.2	0.992
68120041	8	8 mm ISO 4565	12-16 mm (½ - ¾") 3 Strand and 8 Plait	8	0.315	24	0.945	28.8	1.134	29.7	1.168
	8.4	5/16" G40		8.4	0.329	26.2	1.030	29.7	1.168	27.2	1.070
	8	8 mm DIN 766		8	0.315	24	0.945	27.2	1.070	28	1.102
68120042	9.5	Lewmar 9.5mm G40	12-16 mm (½ - ¾") 3 Strand and 8 Plait	9.5	0.374	28	1.102	32	1.260	35	1.378
	8	5/16" Campbell S3		8	0.315	32	1.260	28	1.102	36	1.417
	10	¾" Campbell S4		10	0.394	29	1.142	35	1.378	30	1.181
	10	10 mm DIN 766		10	0.394	28	1.102	36	1.417	28	1.102
68120043	10	10 mm ISO 4565	12-16 mm (½ - ¾") 3 Strand and 8 Plait	10	0.394	30	1.181	36	1.417	32	1.260
	9.5	Lewmar 9.5mm G40		9.5	0.374	28	1.102	32	1.260	34.5	1.358



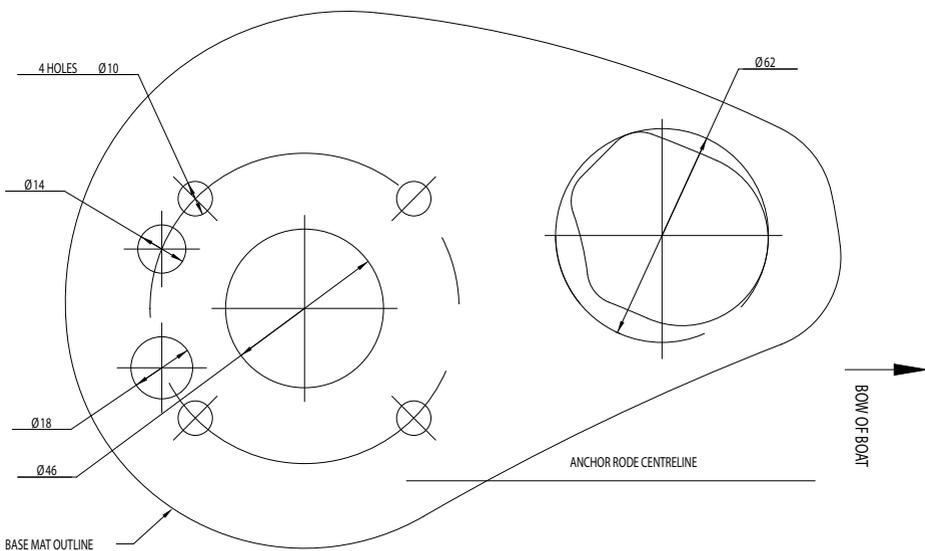
### 8.3 Deck template guide

⊘ DO NOT use this template as a cutter. It is supplied as a guide only. Check before drilling holes.

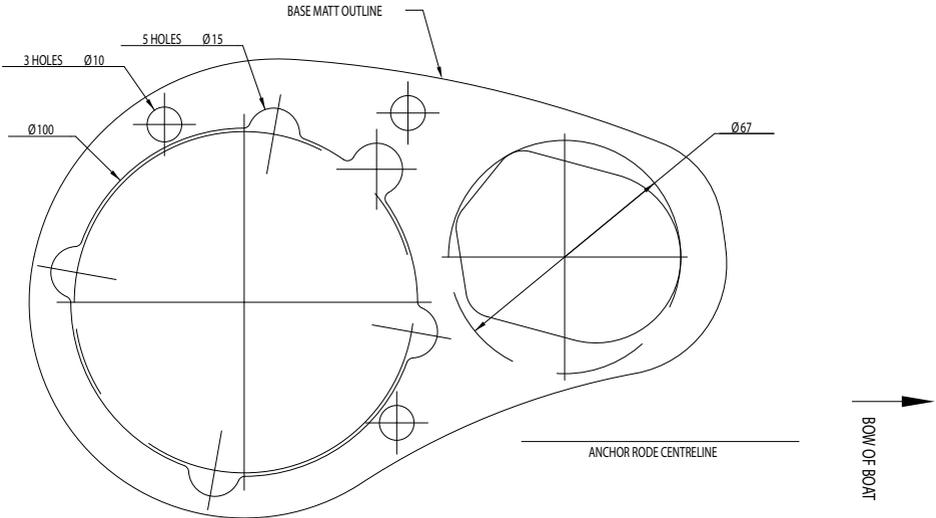
#### VX1 Deck Mounting Detail



#### VX2/3 Deck Mounting Detail



## VX1L Deck Mounting Detail



## 8.4 Electric specifications

MODEL	POWER OPTION	MOTOR	TYPICAL MAX. PULL		MAXIMUM LINE SPEED		TYPICAL WORKING LOAD	
	V	W	KG	LB	M/MIN	FT/MIN	KG	LB
VX1	12	300	400	882	25	82	100	220
VX1	12	500	675	1488	25	82	169	373
VX1L	12	500	650	1433	20	60	160	352
VX1L	12	800	920	2028	21	63	230	507
VX2	12	700	850	1874	29	95	213	470
VX2	24	900	850	1874	29	95	213	470
VX2+	12	1000	1025	2260	39	128	257	567
VX2+	24	1000	1025	2260	39	128	257	567
VX3	12	1500	1175	2590	40	131	294	648
VX3	24	1500	1175	2590	40	131	294	648

\*Values tested at +/- 10% on 12/24V system typical of electric systems installed on boats

MODEL	CURRENT DRAW AT WORK LOAD	TOTAL WEIGHT GYPSY ONLY		TOTAL WEIGHT GYPSY/DRUM		CIRCUIT BREAKER
	A	KG	LB	KG	LB	A
VX1	66	12.5	28	13.5	30	50
VX1	126	12.5	28	13.5	30	70
VX1L	40	6.0	13.5	7.0	15.4	50
VX1L	58	6.0	13.5	7.0	15.4	70
VX2	120	13.9	31	14.9	33	90
VX2	60	13.9	31	14.9	33	50
VX2+	131	16.1	35	17.1	38	110
VX2+	74	16.1	35	17.1	38	90
VX3	132	16.1	35	17.1	38	110
VX3	70	16.1	35	17.1	38	90

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## 9. Trouble shooting

### 9.1 Electric windlass

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1. Anchor rode pays out independently while windlass is not in use.

This problem is a result of not securing the anchor rode combined with the gypsy drive cap being slack. Tighten the gypsy drive cap using the winch handle and always secure the anchor rode independently of the windlass when not in use.

2. Failure to operate or sluggish operation.

- The majority of these problems are electrical in nature. It is essential that the proper voltage be maintained. The proper voltage on a 12 Volt system is 13.5 Volts (24 Volt system is 26.5 Volts), constant low voltage will damage motor.
- Ensure electrical cable size is large enough to handle the current draw and keep voltage drop within acceptable limits.
- Check control switches, connections, battery condition, isolator switch, fuse and motor for operation failure.

## 10. Warranty

### Limited Warranty and Key Terms of Supply by Lewmar

Lewmar warrants that in normal private pleasure boat usage and with proper maintenance its products will conform with their specification for a period of three years from the date of purchase by the end user, subject to the conditions, limitations and exceptions listed below. Any product, 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 the repair or replacement of any parts of the product which are defective in materials or workmanship.
- ii Responsibility for the selection of products appropriate for the use intended by the Buyer shall rest solely with the Buyer and Lewmar accepts no responsibility for any such selection.
- iii Lewmar shall not be liable in any way for Product failure, or any resulting loss or damage that arises from:
  - a. use of a product in an application for which it was not designed or intended;
  - b. corrosion, ultra violet degradation or wear and tear;
  - c. a failure to service or maintain the product in accordance with Lewmar's recommendations;
  - d. faulty or deficient installation of the product (unless conducted by Lewmar);
  - e. any modification or alteration of the product;
  - f. conditions that exceed the product's performance specifications or safe working loads.
- g. Abuse
- iv Product subject to a warranty claim must be returned to the Lewmar outlet that supplied the product for examination unless otherwise approved by Lewmar in writing.
- v This warranty does not cover any incidental costs incurred for the investigation, removal, carriage, transport or installation of product.
- vi Service by anyone other than authorized 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 in the marine environment. Buyers intending to use them for any other purpose should seek independent professional advice as to their suitability. Lewmar accepts no liability arising from such other use.

#### B EXCEPTIONS

Cover under this Warranty is limited to a period of one year from the date of purchase by the end user in the case of any of the following products or parts of products:

- Electric motors and associated electrical equipment
- Electronic controls
- Hydraulic pumps, valves and actuators
- Hatch & Portlight weather seals
- Products used in "Grand Prix" racing applications
- Products used in commercial or charter applications
- Anchor rodes

#### 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 loss of anticipated turnover or profit or indirect, consequential or economic loss;
- Damages, costs or expenses payable to any third party;
- Any damage to yachts or equipment;
- Death or personal Injury (unless caused by Lewmar's negligence).

Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you

b. Lewmar grants no other warranties regarding the fitness for purpose, use, nature or satisfactory quality of the products.

ii Where applicable law does not permit a statutory or implied warranty to be excluded, then such warranty, if permitted by that state or country's law, shall be limited to a period of one year from the date of purchase by the end user. Some states and countries do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you.

#### D PROCEDURE

Notice of a claim for service under this warranty shall be made promptly and in writing by the end user to the Lewmar outlet that supplied the product or to Lewmar Limited at Southmoor Lane, Havant, Hampshire PO9 1JJ, England.

#### E SEVERANCE CLAUSE

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

#### F OTHER RIGHTS

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

In the case of European States a Consumer customer (as defined nationally) has legal rights under the applicable national law governing the sale of Consumer Goods; this Warranty does not affect those rights.

#### G LAW

This warranty shall be governed by and read in accordance with the laws of England or the state or country in which the first end user is domiciled at the time of purchase of the product.

#### H DISPUTES

Any dispute arising under this warranty may, at the option of the end-user, be referred to alternative dispute resolution under the rules of the British Marine Federation or to the Courts of the State whose law shall govern the warranty or to the Courts of England and Wales.

The British Marine Federation may be contacted at Marine House, Thorpe Lea Road, Egham, England, TW20 8BF

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