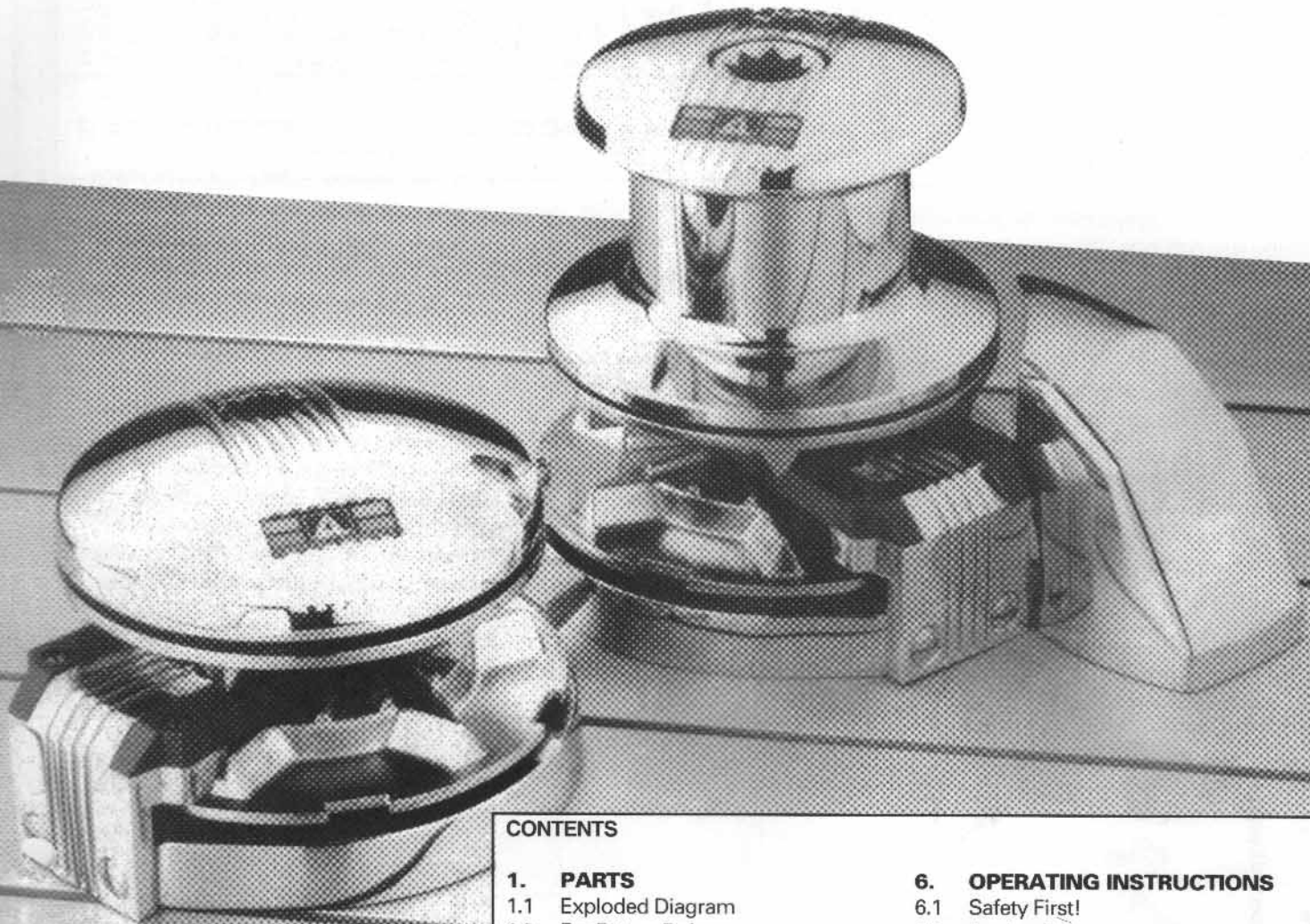


S-L Anchorman

Manual Vertical Windlass Handbook Installation, Operation and Maintenance Instructions



CONTENTS

1. PARTS

- 1.1 Exploded Diagram
- 1.2 For Future Reference
- 1.3 Parts List

2. PLANNING THE INSTALLATION

- 2.1 Gipsy Suitability
- 2.2 Package Contents
- 2.3 Additional Requirements

3. ACCESSORIES

4. SPECIFICATION

5. INSTALLATION

- 5.1 Fitting Windlass to Deck
- 5.2 Joining Rope to Chain

6. OPERATING INSTRUCTIONS

- 6.1 Safety First!
- 6.2 Anchor Release
- 6.3 Lying to Anchor
- 6.4 Anchor recovery
- 6.5 Warping
- 6.6 Operating Tips

7. IMPORTANT USER INFORMATION

8. MAINTENANCE

- 8.1 General Recommendations
- 8.2 Winter Laying Up

9. WARRANTY

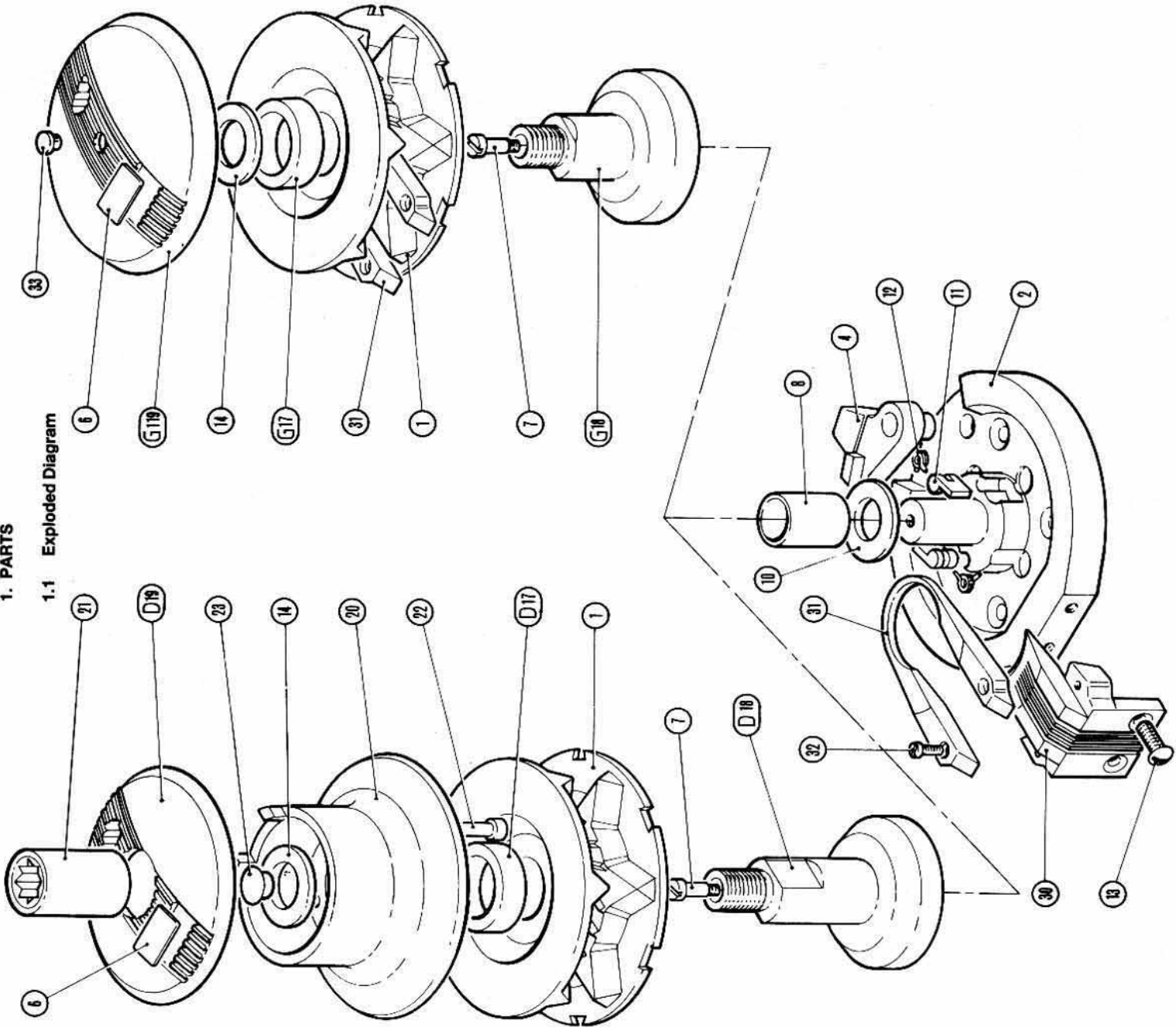


SIMPSON

LAWRENCE

1. PARTS

1.1 Exploded Diagram



1.2 For Future Reference

After you have read this instruction booklet, please keep it safe on board your vessel for future reference.

Identify your model

	List No	Tick
Gipsy/Drum Anchorman	0044100	
Gipsy only Anchorman	0044200	

The above information is essential when ordering spare parts.

1.3 Parts List

Item	Part No.	Description	Quantity
1A	60615RC6	Gipsy RC 10mm	1
1B	60615RC7	Gipsy RC 8mm	1
2	441-002	Baseplate C/Pd	1
4	441-004A	Gipsy pawl assembly-S5668	1
6	445-013	Nameplate S5678	1
7	400-017	Shoulder pin	1
8	441-008	Plain bush	1
10	441-010	Washer nylonic 7814	1
11	6044111	Pawl & spring set	Set
12	6044111	Pawl & spring set	Set
13	441-013	Contains 3 x 11, 3 x 12	2
14	441-014	Slotscrew 18/8 SS FCSK M6	1
20	441-020	Form A washer 18/8 SS M20	1
21	6044544	Drum C/Pd	1
22	441-022	Clutch nut	3
23	441-023	Hole plug	1
30	6044900	Screw 18/8 SS SKTCAP M6	Set
31	6044570	Fleming retrofit kit	1
32	445-074	Contains 30, 31, 2 x 32	1
33	446-077	Fleming	2
D17	60441D18	Screw 18/8 SS CHD M4 12mm	1
D18	441-017	Ply out hole plug	1
D19	441-019	Distance piece S5599-02	1
G119	446-142	Gipsy carrier D18 GD	1
G17	442-017	Drum cap C/Pd	1
G18	60442G18	Gipsy cap C/Pltd	1
G19	446-142	Distance piece S5599-2	1
		Gipsy carrier G18 G	1
		Gipsy cap C/Pltd	1

2. PLANNING THE INSTALLATION

2.1 Gipsy Suitability

The rope/chain gipsy enables the windlass to be used for hauling rope and chain without the need to transfer from warping drum to gipsy.

It is ideally suited to anchor rodes which consist of rope with a chain tail.

Rope used with rope/chain gipsies should be three strand nylon.

The RC172 gipsy is designed to suit 12 mm (1/2") rope, the RC162 and RC152 gipsies to suit 16 mm (5/8") rope but they all may accept diameters that are plus or minus 3 mm (1/8") depending on the particular lay of the rope. The 180 & 181 gipsies handle chain only.

Chain should be chosen to suit gipsies as follows:-

GIPSY	CHAIN	PITCH (mm)	SIZE
RC162	S-L 0058004	27.7	9.5 mm
	S-L 0058604 Stainless		10 mm
	US BBB		3/8"
	French NFE 26011		10 mm
	German DIN 766		9&10 mm
	Italian		10 mm
	Norwegian		1/4"
	Australian PWB & Beavers Australian Grade 'L'		8 mm 10 mm
RC172	S-L 0058002	25-4	1/4"
	S-L 0058003		8 mm
	S-L 0058603 Stainless		8 mm
	US Transport 'G7' (ISO Spec.)		1/4"
	US BBB		5/16"
	US High Test 'G4' (ISO Spec.)		5/16"
	French NFE 26011		8 mm
	German DIN 766		8 mm
	Italian		8 mm
	Norwegian		1/4"
	Australian		5/16" 8 mm 8 mm
180	Accoloy		9/32"
181	German DIN 766(86)		6 mm

Depending on manufacture, other chains in the range from 6mm to 10mm and 1/4" to 3/8" may be suitable with one of the above gipsies. Should you have difficulty in matching a gipsy to your chain please consult your local agent or Simpson-Lawrence Ltd.

2.2 Package Contents

Windlass Assembly	
Safety Instructions	D1000-3
Instruction Manual	D1020-4
Mounting Template	D1018-1

2.3 Additional Requirements

Each windlass installation requires :

- A Fixing Stud Set (See 'Accessories' section)
- An Operating Handle (See 'Accessories' section)
- The following tools:
 - Flat Bladed Screwdriver
 - 8.4mm (21/64") Diameter Drill
 - 13mm AF Spanner (wrench)
- d. Sealant

3. ACCESSORIES

Item	List Number
Rode Management System - - - - -	0044901
Chain Pipe - - - - - Flat type with cover	2417201
Chain Pipe - - - - - Hooded type	2417202
10" Operating Handle - - - - - Autolock	2756700
10" Operating Handle - - - - - Standard	2756900
Windlass Cover - - - - - White	0044501
Windlass Cover - - - - - Blue	0044502
Short Reach Fixing Stud Set - - - - - 50mm	6044120
Long Reach Fixing Stud Set - - - - - 100mm	6044120
Installation Pack - Contains Teak Mounting Pad, Long Reach Fixing Studs & Marine Grade Sealant	6044122

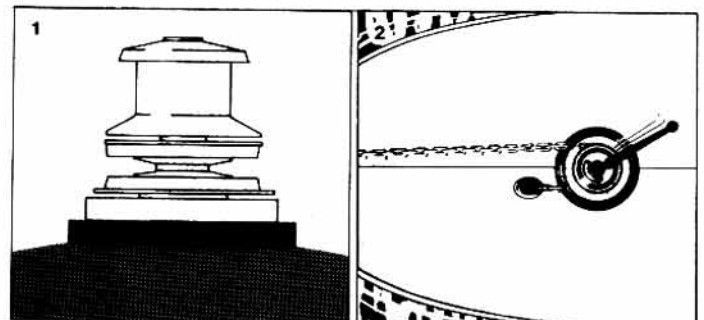
4. SPECIFICATION

Cap	Chrome Plated Bronze
Drum	Chrome Plated Bronze
Gipsy	Chrome Plated Bronze
Baseplate	Chrome Plated Bronze
Bearings	Plastic
Internal Pawls	Stainless Steel
Weight	Gipsy/Drum 7.5 kg (16.5 lb) Gipsy only 6.5 kg (14.3 lb)

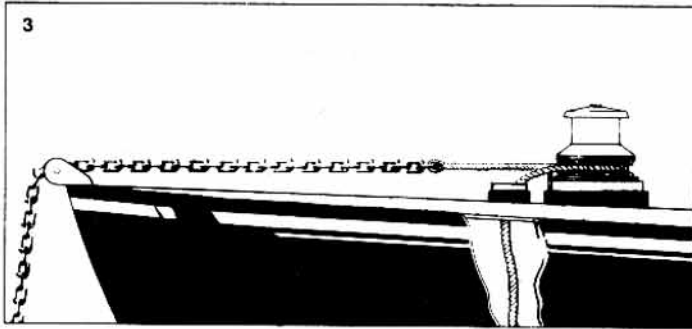
5. INSTALLATION

5.1 Fitting Windlass to Deck

- 5.1.1 If the deck top is not flat a suitable mounting pad may be required to take up camber or sheer. Decks which are thin, of foam or balsa laminate construction, will require a backing piece in order to spread the loads which will be applied locally to the deck while the windlass is in use.
- 5.1.2 Place the windlass on the deck or mounting pad in the desired position and check the line up of the chain or rope with reference to the stemhead roller and the chain locker below. Check that there is sufficient room to fully rotate a bi-square winch handle without obstruction.



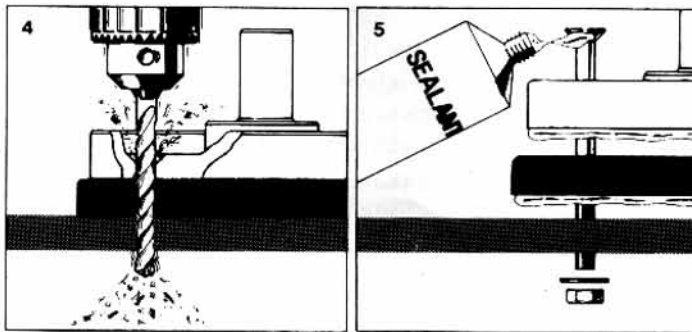
- 5.1.3 Chain lead from the bow rollers should be in the same plane as the centre of the gipsy so any deck pad may also be required to be angled. There must also be sufficient vertical fall for the chain or rope, even with a full locker, to draw the chain or rope from the gipsy.



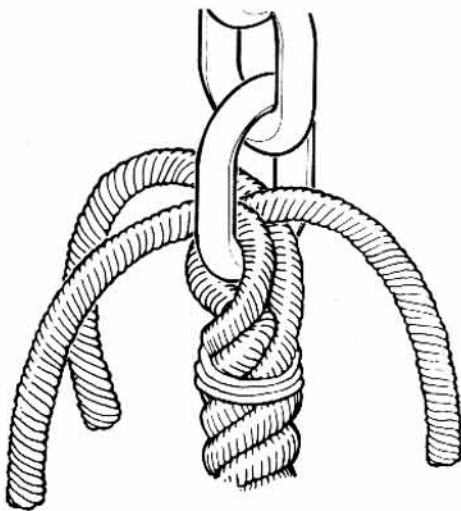
- 5.1.4 Dismantle the windlass by unscrewing fully the central clutch nut or gipsy cap as appropriate. Also remove the stripper screws (part 13). Remove the drum and/or gipsy with its stripper to expose the 4 countersunk mounting holes. Drill four M8 (5/16") clearance holes for the screws.

- 5.1.5 Apply a suitable sealant as indicated and secure the baseplate firmly to the deck.

NB If using silicone or other rubbery type sealants it is advisable to allow curing of the sealant before final tightening of the mounting bolts.



5.2 Joining Rope To Chain



- 5.3.1 With whipping twine or similar, seize your rope 300mm (12") from the rope's end and unlay strands.
- 5.3.2 Pass one strand through the chain end link from one side and the other two strands from the opposite side.

- 5.3.3 Remove seizing and complete back splice in normal manner for two full tucks.

- 5.3.4 With a hot knife pare down the three strands by one third and continue with two further tucks.

- 5.3.5 Pare strands down by another third and finish with another two tucks.

- 5.3.6 Cut away remaining tails.

This method of joining is designed to minimise chafe between rope and chain but as a matter of prudent seamanship it should be checked regularly and remade if there is any evidence of wear.

Because of wide variations in rope type and construction some experimentation may be required.

6. OPERATING INSTRUCTIONS

6.1 Safety First

Ensure that fingers and loose clothing are kept clear of the chain and gipsy whilst they are in motion to avoid personal injury!

Also, adopt the habit of removing the handle, when not in use, from the drum or gipsy cap to avoid personal injury and the possibility of inadvertently releasing the clutch!

6.2 Anchor Release

Insert a standard sheet winch handle into the central clutch nut (441 model) or off-set bi-square hole (442 model) and gently slacken by turning it anti-clockwise until the cable begins to run out. The speed at which the cable runs out can easily be controlled by the handle. When sufficient cable has been let out, stop it by turning the handle clockwise.

6.3 Lying to Anchor Safely

- 6.3.1 Boats lying to their anchor in a high swell or heavy weather conditions will snub on the anchor or mooring rope and this can cause the chain to slip or apply excessive loads to the windlass.

- 6.3.2 For maximum safety the windlass must not be left to take the entire force from the anchor cable and a bridle should be used to transfer the load to a mooring cleat or bollard. Alternatively, the chain can be removed from the windlass gipsy and made fast directly to a bollard or sampson post.

6.4 Anchor Recovery

When using chain, remove the bridle or stopper. Rope should be untied and replaced in the gipsy. The effort required to break out the anchor should be minimised by first hauling in the slack cable with a clockwise rotation of the handle and then motoring towards the anchor.

6.5 Warping (441 only)

- 6.5.1 If the gipsy is in use, ensure that the gipsy pawl is engaged.

- 6.5.2 Slacken the clutch nut to disengage the gipsy clutch.

- 6.5.3 The warping drum can now be made to revolve independently of the gipsy.

- 6.5.4 Rope/drum slippage can normally be overcome by increasing the number of turns of rope taken on the drum.

6.6 Operating Tips

- 6.6.1 When anchoring it is best to allow the chain to run out slowly, allowing the vessel to take up sternway before full scope is let out. This helps prevent the chain from becoming tangled on top of your anchor on the sea bed.
- 6.6.2 To aid anchor recovery under conditions where wind or tide cause additional load on the anchor, we recommend that the vessel's engine be used to assist by lessening the load on the windlass and by providing the opportunity for greater control when the anchor breaks out.
- 6.6.3 When mooring stern to, drop the anchor at the required distance from the jetty, and gently ease off the gipsy clutch just enough to allow the chain to run out under the influence of the stern way of the vessel. By engaging the clutch fully, the anchor can be used to restrain the vessel as it approaches the jetty.
Make fast your vessel with warps from the stern.

7. IMPORTANT USER INFORMATION

Classification Societies require that a vessel lying to anchor should have its chain held by a cable stopper or equivalent strong point as windlasses are not designed to withstand the loads generated under storm conditions.

Whilst under way it is the responsibility of the boat user to ensure that the anchor and rode are properly stowed for the prevailing sea conditions. This is particularly important with high speed power boats.

This rule should be applied to all craft!

An anchor windlass is mounted in the most exposed position on a vessel and is thus subject to severe atmospheric attack resulting in a possibility of corrosion in excess of that experienced with most other items of deck

equipment. As the windlass may only be used infrequently, the risk of corrosion is further increased.

When the windlass is mounted in an anchor well with a closing lid, due to lack of ventilation and consequent high saline conditions, the rate of corrosion is accelerated. It is essential that the windlass is regularly examined, operated and given any necessary maintenance. This is of even greater importance when the windlass is installed in an anchor well!

8. MAINTENANCE

8.1 General Recommendations

After the first two or three anchor recoveries, check that the windlass is still fastened tightly to your deck as it should now be 'bedded-in'.

Regularly wash down the exterior of your windlass with fresh water.

For smoothest operation of the clutch ensure that the clutch mechanism and gipsy exterior is kept free from excess salt deposits. At least once a year dismantle the above deck parts, clean thoroughly and apply a small amount of Marine Grade teflon grease to all bearing surfaces and re-assemble.

8.2 Winter Laying Up

As with all items of marine equipment poor installation or neglect is often responsible for damage caused during the winter lay up period.

Given correct installation and maintenance your windlass will require little attention prior to, or after, winter lay up. Check between the windlass deck housing and deck for signs of water ingress. Should it occur, remove, clean and reseal the deck plate.

NOTES

9. THREE YEAR LIMITED WARRANTY

WARRANTY COVERAGE: SIMPSON-LAWRENCE LTD., warrants to the original purchaser, subject to the limitations and exclusions described below, that this product will be free from defects, in material and workmanship under normal use and service for a period of three (3) years from the date of its original sale, except that the warranty shall be for a period of one (1) year for seals, electric motors, electrical equipment, electronic controls, composite gipsies and hydraulic pumps. Simpson-Lawrence will repair or replace any part which proves to be defective in normal use during the period of the warranty.

WARRANTY CLAIMS PROCEDURES: If a defect is discovered during the applicable warranty period, Buyer must promptly notify Simpson-Lawrence of such, in writing, at the nearest address below, providing proof of purchase. For warranty service, the product must be returned to Simpson-Lawrence for examination. This examination will be performed by Simpson-Lawrence at no charge to buyer. Buyer is responsible for any labour costs associated with preparing the product or parts for shipping and the cost of shipping or transporting the product or parts to and from Simpson-Lawrence.

REMEDY: Simpson-Lawrence will repair any defect in material or workmanship or, at it's option, correct such defect by replacing non-conforming goods or parts. Such repairs and/or new parts are warranted for the unexpired portion of the original warranty, or for 90 days, whichever is later. Warranty work (parts and or/ Labour) hall be at Simpson-Lawrence's expence:however, product preparation and shipping costs to or from Simpson-Lawrence shall be bourne by buyer. These remedies are the Buyer's exclusive remedies for breach of warranty.

LIMITATIONS AND EXCLUSIONS: (1) This warranty applies only if the product is used under non-commercial, normal use in service, and shall not apply to (a) products subjected to (i) conditions or usage that exceed the prod-

uct's performance specifications, (ii) incorrect maintenance, or (iii) use in applications for which they are not intended; (b) defects or damage caused by a force majeure which exceed design specifications, including but not limited to, wear and tear, corrosion or ultraviolet degredation; and (c) defects or damages caused by unauthorized attachments, accessories or modifications. (2) Simpson-Lawrence's warranties of fitness and merchantability, as well as other expressed warranties contained herein, shall apply only to those parts and components manufactured by Simpson-Lawrence, which were installed by Simpson-Lawrence reserve the right to alter the products specifications and design without prior notice.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED WARRANTIES. IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, DO NOT EXTEND BEYOND THE DURATION OF THE EXPRESSED WARRANTIES PROVIDED HEREIN.

IN NO CASE SHALL SIMPSON LAWRENCE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT OR ANY OTHER LEGAL THEORY. THIS LIMITATION DOES NOT APPLY TO CLAIMS FOR PERSONAL INJURY.

SOME STATES, OR COUNTRIES, DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE, OR COUNTRY TO COUNTRY.

The models described in this document are subject to a policy of continual improvement. Simpson-Lawrence Ltd. reserve the right to alter specifications and recommendations without notice. For the latest information regarding any aspect of your windlass please contact your local agent or:-