



ROYAL

MOUNTING , OPERATION AND MAINTENANCE INSTRUCTIONS
ISTRUZIONI PER INSTALLAZIONE ,USO E MANUTENZIONE
ISTRUCTIONS DE MONTAGE, UTILISATION ET MAINTENANCE
INSTALLATIONS-,BEDIENUNGS- UND WARTUNGSHANDBUCHER
FUR BOOTEINGENTUMER

INSTRUCCIONES PARA MONTAJE, USO Y MANTENIMIENTO

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WARNING ! your windlass is not designed as a strong point to fasten your anchor rode (chain or rope) to when the boat is laying on it's anchor and surging. The anchor rode must be fastened to a strong point such as mooring cleat, bollard or chain storage.

WARNING ! do not exceed a pulling load more than the rating of your windlass. The vessel's engine be running and used to assist in the anchor recovery.

WARNING ! always keep your hands, feet and fingers clear of an operating windlass. If a jam occurs use extreme caution and turn off the windlass circuit before attending to clearing the anchor rode.

WARNING ! do not use the windlass for different purposes it was designed for.

WARRANTY

Lofrans' S.r.l. warrants its products for a period of one (1) year from the date of purchase against defects in materials or workmanship , under normal use and service. Any part which proves to be defective in normal usage during that one year period will be repaired or replaced by Lofrans'. This warranty is subjected to the conditions listed below.

Lofrans' liability shall be limited to repair or replacement of the part defective in materials or workmanship.

Lofrans shall not be liable in any way for failures due to use of products in applications for which they are not intended , improper installation , misuse ,incorrect maintenance , corrosion , normal wear and tear , discoloration and unauthorised alteration of the product, conditions that exceed the product 's performance specifications.

The claim of warranty must be promptly notified in writing , to Lofrans or Lofrans' authorised distributor, providing proof of purchase. Repair will be under taken upon return of the defective part , freight prepaid to Lofrans or Lofrans' authorised distributor. Lofrans or its authorised distributor will not be responsible for any shipping charges or labour cost associated with any warranty claims. Lofrans shall not be liable for consequential damages to yachts , equipment or other property or persons due to use or installation of Lofrans equipment. Implied warranties are limited to the life of this warranty. All incidental and/or consequential damages are excluded from this warranty. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages , so the above limitation or exclusions may not apply to you.

Lofrans' reserves the right to disclaim the warranty in case the windlass is controlled by not suitable electric accessories and/or in case of non installation of a proper circuit breaker on the windlass electric line.

MODEL CLASSIFICATION

FOR YOUR OWN SAFETY PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING OR OPERATING YOUR WINDLASS.

Fill in this form to obtain a complete classification of the installed model.

CHAIN AVAILABLE	Ø6 Iso - Din 766	<input type="checkbox"/>	Ø10 Iso	<input type="checkbox"/>
	Ø7 Iso - Ø 1/4" G40	<input type="checkbox"/>	Ø3/8" Din 786 - Ø10 Din 786	<input type="checkbox"/>
	Ø8 Iso - Din 766 - Ø5/16" BBB	<input type="checkbox"/>	Ø3/8" BBB	<input type="checkbox"/>
	Ø5/16" G40	<input type="checkbox"/>	Ø3/8" G40	<input type="checkbox"/>

PURCHASE DATE & PLACE _____

NOTES _____

SERIAL NUMBER _____

INSTALLATION

Check if the windlass is complete in every parts. If any parts is missing or damaged , please contact your dealer.

TOOLS AND MATERIALS REQUIREMENTS	Drill Ø 11 mm (7/16"), Spanner 10 mm A/F - 13 mm A/F Jig Saw, Power Drill , Silicone Sealant
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Check there are no deck obstructions. Be sure there is ample room to enable you to use the handle (352). In order to facilitate maintenance operations Lofrans suggest to install the windlass on a removable panel fixed on the deck by bolts.

If the deck is too thin or inadequate , it will be necessary to use a backing pad (plywood , timber) of sufficient dimensions to spread the stress imposed during recovery of chain. **To avoid electrolysis problems do not use stainless steel pad as backing pad.**

For boats of steel or aluminium , it is very important insulated the windlass from the deck with the non conductive gasket.

The windlass must be placed where the chain locker has the max depth. Ensure the depth of the chain locker be sufficient to store all the chain and leave a minimum of 400 mm (16") between underside of the deck and the top of the heaped chain. The windlass must be located with the gipsy in line with the bow roller. The chain must turn around the gipsy with a rotation of 90° approx.

When the position has been set , drill the holes. Fit the windlass on the deck using bolts and nuts type M10 or equivalent in stainless steel.

WARNING ! = Do not approach with hands or feet near the gipsy and chain , when operating.

WARNING ! = Engage the chain stopper after anchoring. Windlass must not be used as sole means securing anchor in bow fitting. Anchors should be independently secured to prevent accidental release .

WARNING ! = Be sure the clutch and the chain stopper are well engaged before boating.

Gipsy Clutch Operation

Gipsy is connected to the main shaft (502) by a clutch , items (318 and 277). To engage the clutch insert the handle supplied into the wingnut (317) and tighten it until you cannot move the handle any more. To disengage the clutch loose the wingnut.

Raising The Anchor

Be sure that the clutch is well engaged. Insert the handle into the emergency wheel (506). Draw it forward and backwards alternatively. As there is no ratio, please keep in mind in case of deep anchoring the stress will be hard. **Do not use the windlass to pull the boat to the anchor.**

When you haul the last metres of the chain , pay attention to the anchor, which may damage the bow of your boat.

If case the anchor be stranded we suggest in order to reduce the windlass load , to use a chain stopper and fix the chain with a rope to a strong point as a cleat.

Lowering The Anchor

it is necessary disengage the clutch. The gipsy may freely run on its shaft and release the chain into the water. The chain fall can be controlled tightening the gipsy cap with the handle . At the end of the operation engage the clutch.

Once anchored , we suggest in order to reduce the windlass load , to use a chain stopper and fix the chain with a rope to a strong point as a cleat.

Use Of The Drum Independently From The Gipsy

Stop the run of the chain. Disengage the clutch. Turn clockwise around the drum with two laps of rope. Keep the end of rope. Insert the handle into the emergency wheel and draw it forward and backwards alternatively, recovering the rope at the same time. Engage the clutch at the end of the operation.

MAINTENANCE

A correct and periodic maintenance operation is essential for the best efficiency of your windlass. At least once every month remove the salt layer , which forms periodically on the outer casting , to avoid electrolysis problems which could prejudice the windlass performances. Wash with a fresh water and clean all the surfaces , particularly in the most hidden points , where salts deposits. We recommended , at least once every six months , to disassemble the windlass gipsy following the instructions below.

Using the handle unscrew (317) , remove (318) then unscrew (217) and remove (226). Remove (335) and extract (276 and 277).

Clean and check all the parts , spray all with CRC 3097 "LONG LIFE" or WD40. Watch if there are no electrolysis traces and grease the main shaft thread.

We strongly recommend to separate , at least once every year , the windlass from the deck to clean and remove the salt layer under the base.

ORDERING SPARE PARTS

To identify a windlass spare parts see the spare part list. When ordering spare parts , please specify for the ROYAL model the code **B.02.101** , give us a complete model classification , the serial number , the item number and the quantity.

Contact the nearest authorised LOFRANS' distributor or directly LOFRANS' S.r.l. fax +39 (039) 2004299 .