



# CAYMAN 88 - TIGRES - FALKON

**INSTRUCTION MANUAL**

**MANUALE DI ISTRUZIONI**

**MANUEL D'INSTRUCTION**

**ANWEISUNG HANDBUCH**

**MANUAL DE INSTRUCCIÓN**



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## **IMPORTANT SAFETY INFORMATION CONCERNING YOUR ANCHOR WINDLASS**

This product is not designed as a strong point to fasten your anchor rode. Fast the anchor rode to a strong point such as mooring cleat or similar.

The vessel's engine be running and used to assist the anchor recovery.

Install always the properly rated circuit breaker to protect the electric plant and the motor from overheating and damages.

Always when the product is not in use turn off the main switch to prevent accidental engagement of the product.

Always keep hands and feet clear of an operating windlass. If a jam occurs turn the windlass off at the main switch before clearing the anchor rode.

Do not use the windlass for different purposes it was designed for.

## **WINDLASS ELECTRIC PLANT MINIMUM REQUIREMENTS**

The table below suggests the requirements for all the components of the windlass electric plant depending from the motor nominal power .

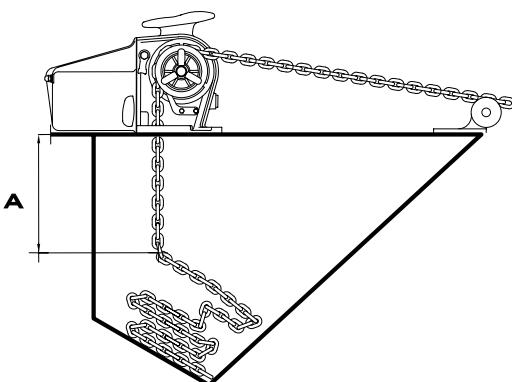
	700 W 12V	700 W 24 V	1000 W 12V	1000 W 24V	1200 W 12V	1200 W 24V	1500 W 12V	1500 W 24V
1-Minimum battery capacity	100 Ah	70 Ah	150 Ah	90 Ah	180 Ah	100 Ah	250 Ah	150 Ah
2-Control Box terminals	3	3	3	3	3	3	3	3
3-Power line cables size	25 mm <sup>2</sup>	16 mm <sup>2</sup>	35 mm <sup>2</sup>	25 mm <sup>2</sup>	50 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	35 mm <sup>2</sup>
4-Lofrans power line circuit breaker	70 A	35 A	100 A	70 A	100 A	70 A	125 A	70 A
5-Control line wires size	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>	1,5 mm <sup>2</sup>
6-Control line fuse	5 A	5 A	5 A	5 A	5 A	5 A	5 A	5 A
7-Remote controls types	Rocker switch C – Hand held remote control Vega – Footswitches – Radio Control Mizar - Orion Line Chaincounters							

Notes /Remarks /Suggestion:

1. Battery of lower capacity decrease the windlass performances and are rapidly subjected to wear and tear.
2. The Control Box is the solenoids box. Please read carefully the Control Box instructions.
3. This size must be increased of 30% when the length of the positive plus the negative cables are more than 10 mts.
4. This Lofrans circuit breaker protects the power line from short circuit and the windlass motor in case of overheating. It must be installed in accessible place to be promptly reactivated when it trips. It can be also used to isolate the windlass from the remote controls as we strongly suggest to avoid accidental engagement.
5. Use 6 mm faston to connect these wires to the terminals of the Control Box.
6. Install this fuse in a place where it is easy to replace.
7. All these controls can be connected in parallel. We strongly recommend to have on board a minimum of two remote controls to operate the windlass in case one of them gets damaged.

All Lofrans equipment are CE approved.

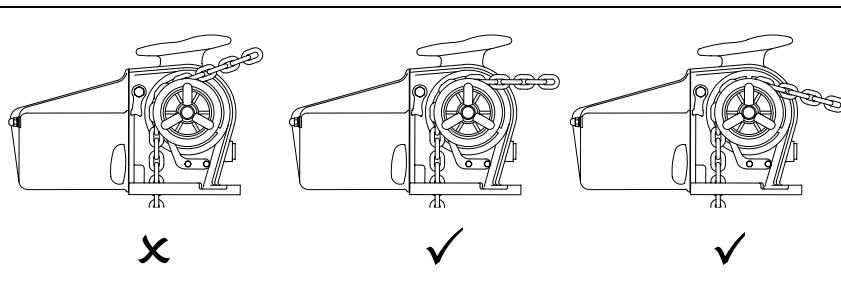
## **INSTALLATION GENERAL REQUIREMENTS**



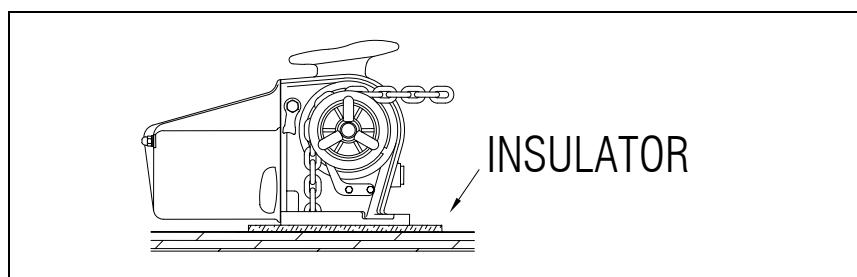
The windlass to work properly must be placed where these four essential conditions are fully satisfied :

1. The gipsy of the windlass must be in line with the bow roller.
2. The deck must be flat. The structure of the boat must be adequate to the load that the windlass is able to pull. If necessary reinforce the deck with a backing pad to spread the stress.
3. The chain fall into the chain locker must be maximized as when the chain is stored completely , it tends to make a shape as a pyramid and reduce the chain fall. To prevent jams you must have a minimum of 300 mm (A) between the underside of the deck and the top of the heaped chain.
4. The chain locker shape is really important to limit the pyramid problem . The drawing beside gives an idea about an ideal configuration.

## **INSTALLATION TIPS**



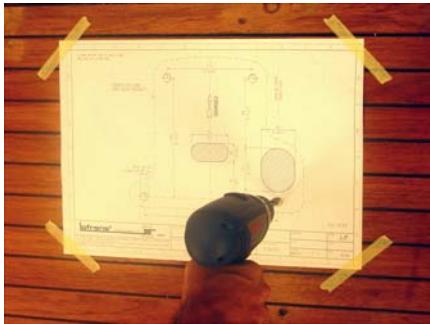
Always the angle where the chain turns around the gipsy must be 90° minimum. See beside. In case this angle is less than 90° put a roller between the gipsy and the bow roller to keep the chain down and get the right angle.



Corrosion problems could depend from the contact between different metals. Where the boat is made in metal , place an insulator between the windlass and the deck.

## INSTALLATION PROCEDURE

1. Place deck template in the chosen location and drill the holes.  
Remove the motor cover unscrewing the cap nuts with a 13 mm spanner



2. Seal the windlass base with high quality silicone sealant and fit the windlass on the deck using stainless steel M10 or equivalent bolts and nuts (Except Cayman 88 model which has the gasket and the mounting studs incorporated)



3. For Falkon model only place the chain pipe (item 469). The stripper (item 467) must be placed into the middle of the gipsy without touch it. Check that all work properly with a free rotation of the gipsy.



4. Connect the power line cables from the Control Box unit to the electric motor through the holes placed into the body as shown below.



## TEST PROCEDURE

1. Introduce the chain into the gipsy . Please take care to keep hands and feet away of the incoming chain.
2. Operate the UP switch. The chain will be recovered. Release the UP switch.
3. Operate the DOWN switch. The chain will be released.
4. If the windlass runs in wrong direction change over the M1 and M2 cables at the Control Box.
5. After using the windlass , we strongly recommend that the nuts are checked again to ensure they are well tightened.

## OPERATION

### GIPSY CLUTCH OPERATION

To engage the clutch insert the handle supplied into the wingnut (item 317 for Tigres & Cayman 88 , item 435 for Falkon) and tighten it until you cannot move the handle any more. To disengage the clutch loose the wingnut.

### BAND BRAKE OPERATION – FALKON MODEL ONLY

To engage the band brake turn clockwise the handle (item 440). Turn the handle counterclockwise to disengage the brake.

	CHAIN STOPPER	GIPSY CLUTCH	BAND BRAKE	CIRCUIT BREAKER
<b>DURING THE NAVIGATION</b> Windlass must not be used as sole means securing anchor in bow fitting. Anchors should be independently secured to prevent accidental release.	Engaged	Engaged	Engaged	OFF
<b>LOWERING THE ANCHOR BY THE GIPSY CLUTCH</b> Disengage the clutch. The chain fall can be controlled by tightening the wingnut with the handle . At the end of the operation engage the clutch.	Disengaged	Disengaged	Disengaged	OFF
<b>LOWERING THE ANCHOR BY ELECTRIC MOTOR</b> Push the button DOWN. You will have always a perfect control of the operation , which can be interrupted any moment by releasing the button DOWN .	Disengaged	Engaged	Disengaged	ON
<b>ONCE ANCHORED</b> Reduce the windlass load by the chain stopper or fix the chain with a rope to a strong point as a cleat.	Engaged	Engaged	Engaged	OFF
<b>RAISING THE ANCHOR</b> Start the engine of the boat. Push the button UP while with the boat at minimum speed go towards the anchoring point. <b>Do not use the windlass to pull the boat to the anchor</b> . Release the button UP to stop the operation. Pay attention to the speed of the anchor , which may damage the bow of your boat. In case the anchor be stranded and the Lofrans circuit breaker gets released , wait some minutes before put it back into service and try once more. Should the circuit breaker stop again , we suggest to fix the chain to a cleats and then use the boat engine to break the anchor loose.	Disengaged	Engaged	Disengaged	ON
<b>DRUM OPERATION</b> Turn clockwise around the drum with two laps of rope. Keep the end of rope. Push the button UP , recovering the rope at the same time.	Engaged	Disengaged	Engaged	ON
<b>RAISING THE ANCHOR IN CASE OF EMERGENCY</b> Insert the handle into the emergency wheel (item 340 for Tigres & Cayman 88, item 457 for Falkon). Draw it forward and backwards alternatively. The stress will be hard in case of deep anchoring.	Disengaged	Engaged	Disengaged	OFF

## MAINTENANCE PROGRAM

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Below are indicated the operations and the period we consider essential to get the best efficiency and performance of your anchor windlass.

1. Clean all the outer surfaces and the hidden points with fresh water and remove the salt layer.
2. Grease the outer rotation parts . Particularly the main shaft thread and the clutch cones. Check for evidences of corrosion and stress.
3. Check the terminals of the electric motor and the Control Box. Test the drop of tension at the terminals.
4. Check the rotation and the speed of the electric motor. If it runs slowly check the electric motor brushes and clean with abrasive paper. Replace when necessary.
5. Replace of the all outer seals. The gearbox is proper filled with SAE 90 long life oil.
6. Remove the windlass from the deck to clean the salt under the basement.

Maintenance Period	Yearly frequency of use of the boat			
	Less than 2 months	From 2 up to 6 months	Over 6 months	Charter
Every 3 months			1,2	1,2
Every 6 months		1,2	3,4	
Every 12 months	1,2,3,4	3,4		3,4,5
After 24 months		5	5	6
After 36 months	5,6	6	6	

## LOFRANS LIMITED INTERNATIONAL WARRANTY

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Lofrans warrants this product for a period of 2 years subjected to the conditions listed below :

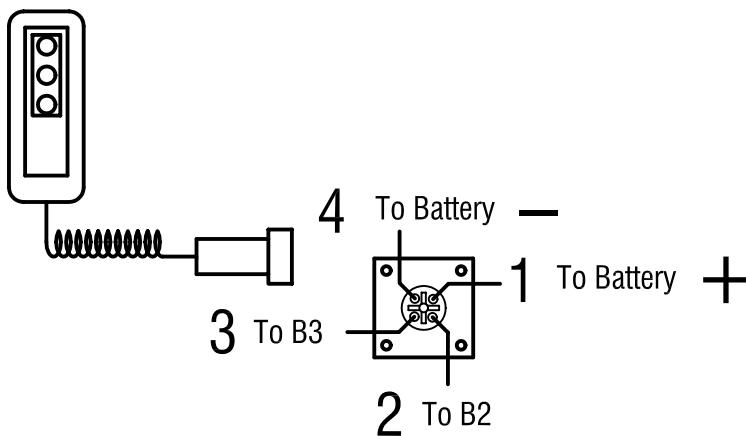
1. The product must be registered. The registration must be done within 30 days from the date of purchase by one of these options : online going to the web site [www.lofrans.it](http://www.lofrans.it) under the page "Product Registration" and following the instructions or by faxing to +039 2004299 the completed registration card attached to the instruction manual.
2. This warranty starts from the date of purchase of the product from the original purchaser. If the product is first equipment of a new boat the warranty starts from the date of purchase of the boat.
3. This warranty covers original defects in material and workmanship.
4. This warranty is limited to the repairment and/or the replacement of the original defective part.
5. The claim of warranty must be promptly notified in writing and sent by fax or e-mail to Lofrans or Lofrans authorised distributor providing the serial number of the product and the registration warranty number. Lofrans reserves the right to require the proof of purchase of the product to accept the claim of warranty.
6. The defective part/product must be returned to Lofrans or Lofrans authorized distributor. List of authorised distributors is available on the web site [www.lofrans.it](http://www.lofrans.it) .
7. This warranty does not cover failures due to : use of the product in applications for which they are not intended , corrosion , normal wear and tear , discolouration , unauthorised alteration of the product , improper installation , incorrect use or maintenance of the product , conditions that exceed the product's performance specifications
8. This warranty does not cover any loss or damages to the original purchaser due to a proven non conformity of the product with the exception of the cases ruled by the Italian law.
9. Lofrans reserves the right to disclaim the warranty in case the product be controlled by improper electric devices and/or in case of non installation of a proper circuit breaker on the electric power line.

The consumer statutory rights are not affected by this warranty according to the national legislation disciplining the sale of goods.

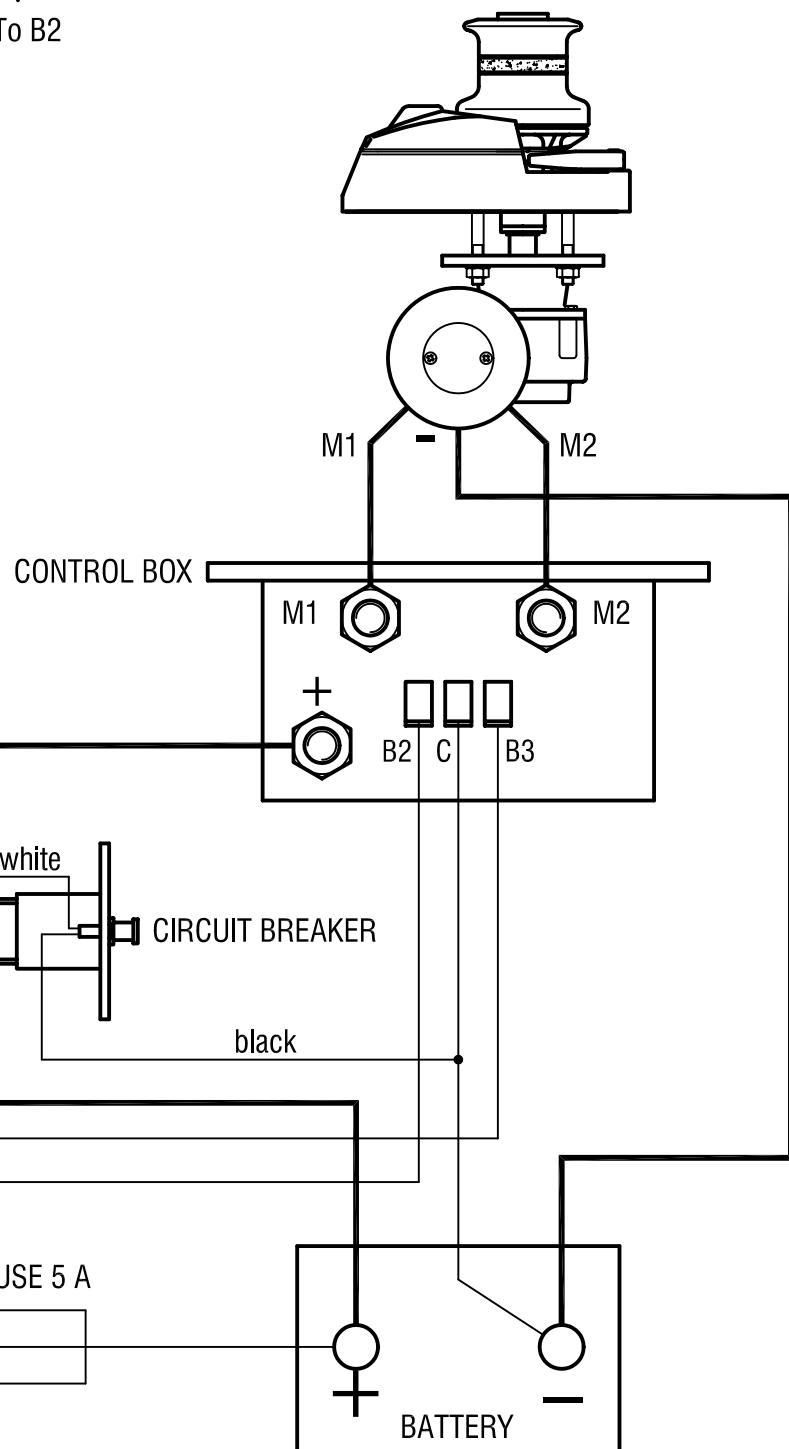
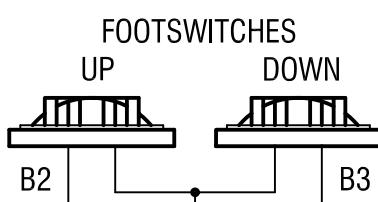
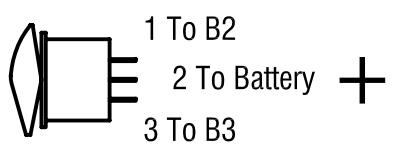
This warranty is ruled by the Italian law

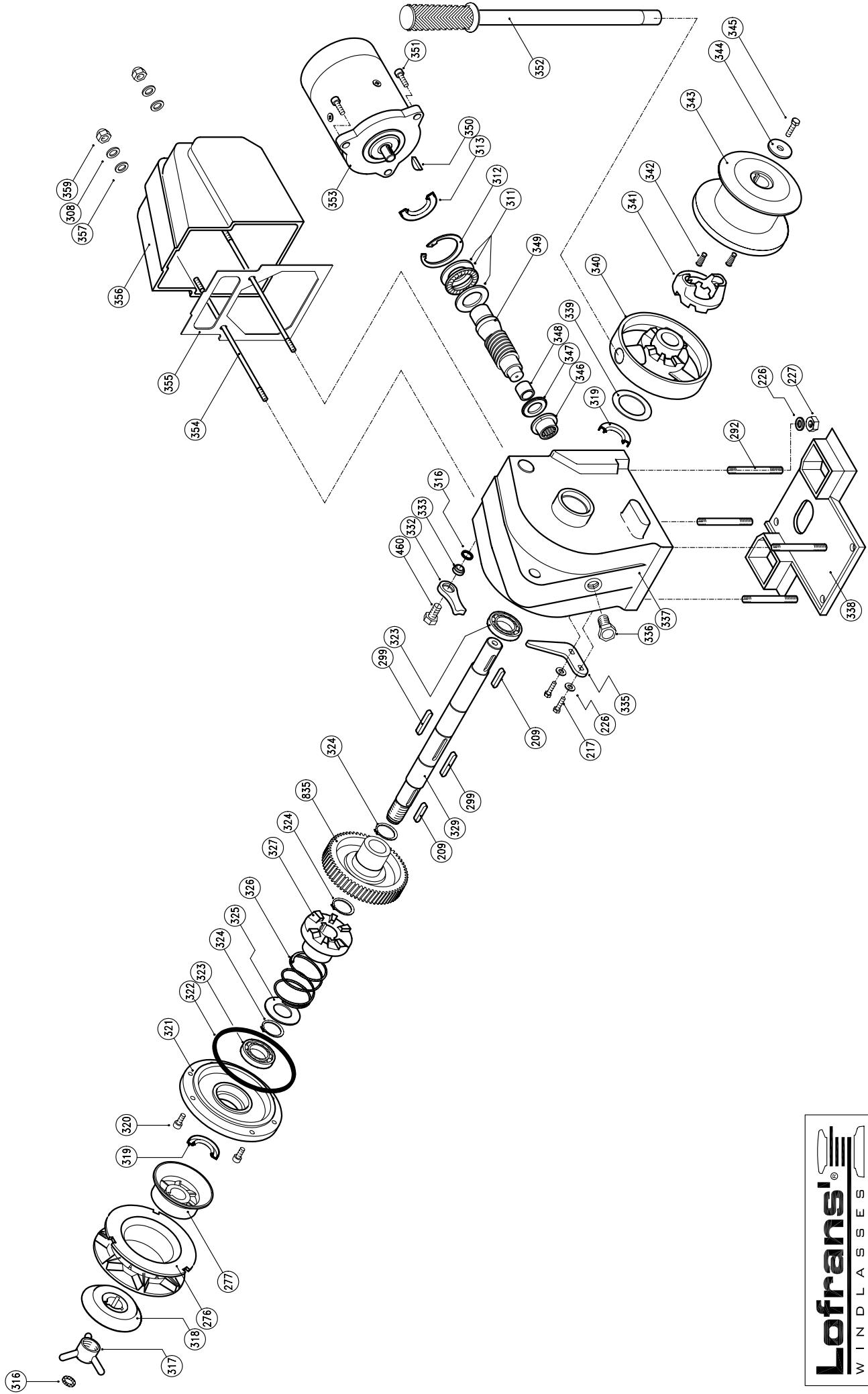
For every controversy the Court of Milan is competent exclusively.

REMOTE CONTROL VEGA



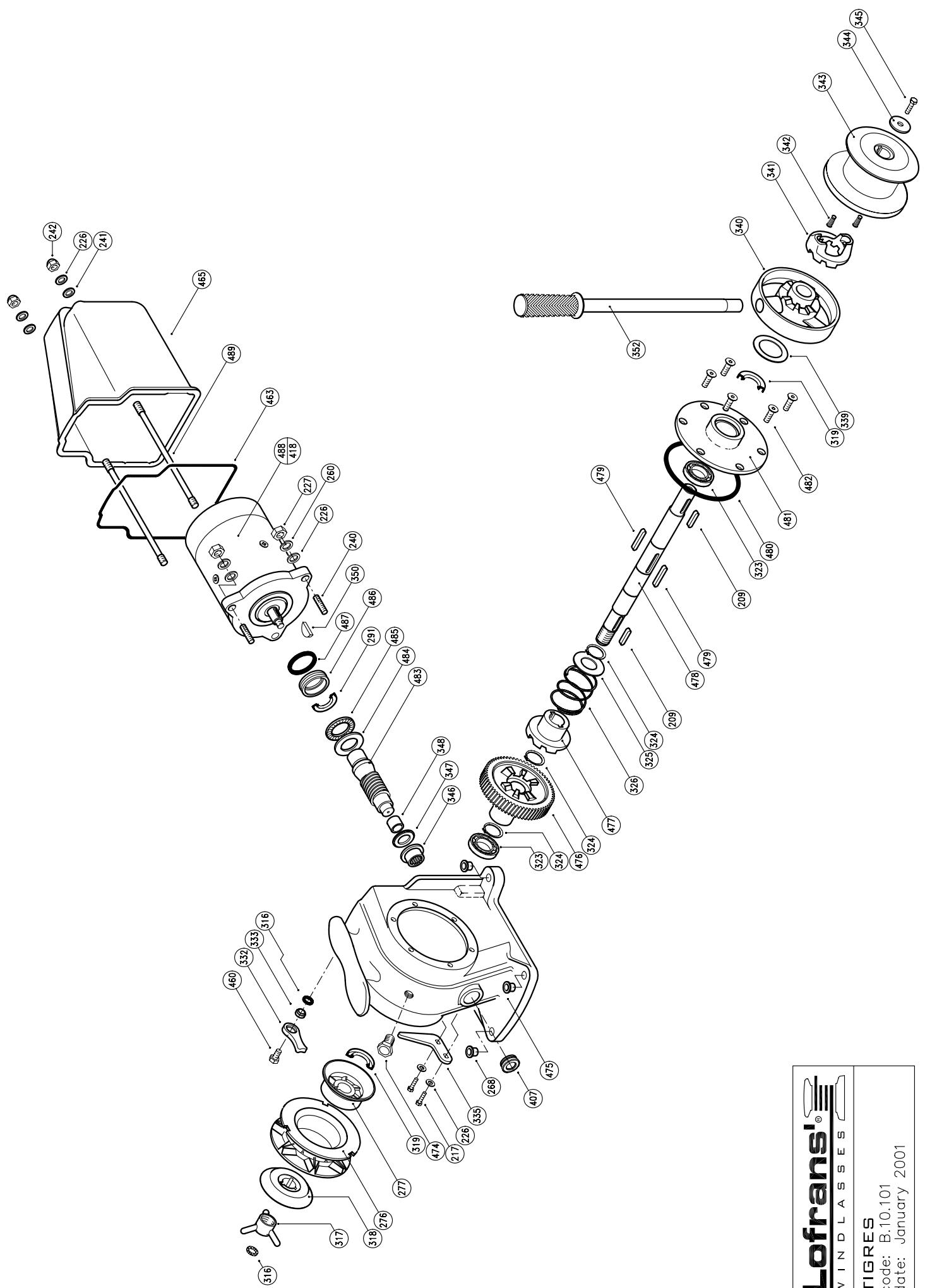
ROCKER SWITCH TYPE C





**Lofrans®**  
WINDLASSES  
CAYMAN 88  
code: B.09.101  
date: January 2001

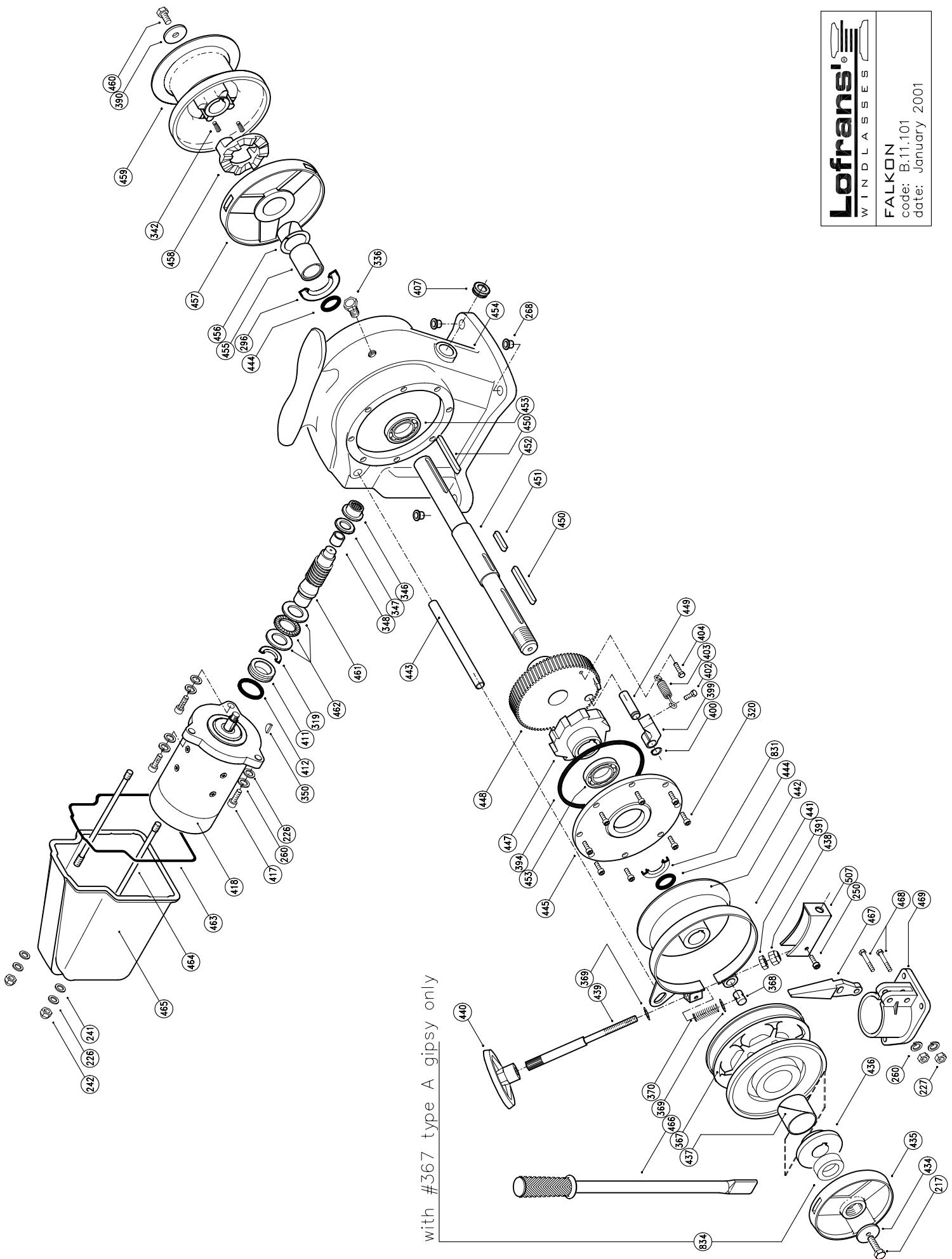




# TIGRES

Part	Description	Kit	Q.ty
209	Key 6x6x30	Kit C	2
217	Hex hd screw M8x20 Uni 5739	Kit B	2
226	Washer M8 Uni 6592	Kit B	7
227	Nut M8 Uni 5587	Kit B	3
240	Stud M8x45	Kit B	3
241	Nylon washer M8 8,4-17-1,6	Kit B	2
242a	Cap nut M8 UNI 5721	Kit B	2
260	Spring washer M8 Uni 1751	Kit B	3
268	Nylon bush		4
276a	Gipsy chain 6		1
276b	Gipsy chain 7		1
276c	Gipsy chain 8		1
276d	Gipsy chain 5/16" HT		1
276e	Gipsy chain 10		1
276f	Gipsy chain 3/8" Din 766		1
276g	Gipsy chain 3/8" BBB		1
276h	Gipsy chain 3/8" HT		1
277	Clutch cone - inner		1
291	Seal 25-35-7	Kit A	1
316	O Ring seal 117	Kit A	2
317	Wingnut		1
318a	Clutch cone - outer		1
318b	Clutch cone - outer for #276 type d-e-f-g-h gipsy		1
319	Seal 25-42-6	Kit A	2
323	Bearing 6005		2
324	Circlip 25 Din 471	Kit D	3
325	Washer		1
326	Spring		1
332	Pawl		1
333	Spacer		1
335	Stripper		1
339	Washer		1
340	Emergency wheel		1
341	Dog clutch		1
342	Spring		2
343	Drum		1
344	Washer 6,5-33-3		1
345	Hex hd screw M6x20 Uni 5739	Kit B	1
346	Combined bearing Rax 720		1
347	Thrust ring CP32035		1
348	Ring IM1520164		1
350	Round key 4x6.5	Kit C	1
352	Handle		1
407	Sightglass		1
418a	Electric motor 1200 W 12 V		1
418b	Electric motor 1200 W 24 V		1
460	Hex hd screw M10x20 Uni 5739	Kit B	1
463	Gasket		1
465	Motor cover		1
474	Oil plug 1/4"		1
475	Body		1
476	Wormwheel		1
477	Dog clutch		1
478	Main shaft		1
479	Iron key 6x6x40	Kit C	2
480	O Ring seal 4462	Kit A	1
481	Cover		1
482	Conic hd screw M6x16 Uni 5933	Kit B	6
483	Worm		1
484	Thrust ring CP32542		1

Part	Description	Kit	Q.ty
485	Thrust bearing AX2542		1
486	Spacer		1
487	O Ring seal 4143	Kit A	1
488a	Electric motor 1000 W 12 V		1
488b	Electric motor 1000 W 24 V		1
489	Stud M8x218		2
KA10101	Kit A - Seals for Tigres		1
KB10101	Kit B - Screw&Nuts for Tigres		1
KC10101	Kit C - Keys for Tigres		1
KD08101	Kit D - Circlips for Kobra/Cayman 88/Tigres		1



# FALKON

Part	Description	Kit	Q.ty
217	Hex hd screw M8x20 Uni 5739	Kit B	1
226	Washer M8 Uni 6592	Kit B	5
227	Nut M8 Uni 5587	Kit B	2
241	Nylon washer M8 8,4-17-1,6	Kit B	2
242a	Cap nut M8 UNI 5721	Kit B	2
250	Hd cap screw M5x8 Uni 5931	Kit B	1
260	Spring washer M8 Uni 1751	Kit B	5
268	Nylon bush		4
296	Seal 40-56-8	Kit A	1
319	Seal 25-42-6	Kit A	1
320	Hd cap screw M6x16 Uni 5931	Kit B	8
336	Oil plug 3/8"		1
342	Spring		2
346	Combined bearing Rax 720		1
347	Thrust ring CP32035		1
348	Ring IM1520164		1
350	Round key 4x6.5	Kit C	1
367a	Gipsy chain 8		1
367b	Gipsy chain 10-3/8" HT		1
367c	Gipsy chain 10 Din 766-3/8" Din 766-BBB		1
367d	Gipsy chain 12-13 Din 766-1/2"		1
367e	Gipsy chain 1/2" HT		1
367f	Gipsy chain 1/2" BBB		1
368	Pivot		1
369	Washer for M10 Uni 6592	Kit B	2
370	Spring		1
390	Washer 10,5-40-4	Kit B	1
391	Nut M10 Uni 5587	Kit B	1
394	O Ring seal 4625	Kit A	1
399	Pawl		1
400	Circlip 15 Din 471	Kit D	1
402	Hex hd screw M6x16 Uni 5739	Kit B	1
403	Spring		1
404	Hex hd screw M6x25 Uni 5739	Kit B	1
407	Sightglass		1
411	Spacer - 1500 W motor		1
412	O Ring seal 153	Kit A	1
417	Hd cap screw M8x30 Uni 5931	Kit B	3
418a	Electric motor 1200 W 12 V		1
418b	Electric motor 1200 W 24 V		1
418c	Electric motor 1500 W 12 V		1
418d	Electric motor 1500 W 24 V		1
434	Washer 8,4-40-4		1
435	Wingnut		1
436	Clutch cone - outer		1
437a	Nylon band		1
437b	Nylon band		1
437c	Nylon band		1
438	Safety nut M10	Kit B	1
439	Brake pivot		1
440	Hand-wheel		1
441	Band brake		1
442	Clutch cone - inner		1
443	Brake pivot		1
444	O Ring seal 4112	Kit A	2
445	Cover		1
447	Ratchet wheel		1
448	Wormwheel		1
449	Pivot		1
450	Key 8x7x80	Kit C	2

Part	Description	Kit	Q.ty
451	Iron key 10x8x40	Kit C	1
452	Main shaft		1
453	Bearing 6206		2
454	Body		1
455	Spacer		1
456	Nylon bush		1
457	Emergency wheel		1
458	Dog clutch		1
459	Drum		1
460	Hex hd screw M10x20 Uni 5739	Kit B	1
461	Worm		1
462	Thrust bearing 51106		1
463	Gasket		1
464	Stud M8x285		2
465	Motor cover		1
466	Handle		1
467	Stripper		1
468	Hex hd screw M8x40 Uni 5739	Kit B	2
469	Chain pipe		1
507a	Brake cover		1
831	Seal 42-56-7	Kit A	1
834	Spacer for gipsy #367a		1
KA11101	Kit A - Seals for Falkon		1
KB11101	Kit B - Screw&Nuts for Falkon		1
KC11101	Kit C - Keys for Falkon		1
KD11101	Kit D - Circlips for Falkon		1

## **LOFRANS' SALES ORGANIZATION**

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### **ARGENTINA**

DOMINGO P. PEDRONI S.A.I.C.  
9 de Julio 198 - 1646 S. Fernando - Bs..As.

### **AUSTRIA**

G.ASCHERL GmbH  
Erlengrund 38 - 6971 Hard

### **HARTMANN**

Hafenstrasse 5  
A - 6971 Hard a. Bodensee

### **BAHRAIN - ARABIAN GULF**

2000 MARINE STORES  
P.O. Box 26927  
Manama

### **BELGIUM**

HUNTER N.V.  
St. Bernardsesteenweg 858-864  
2660 Hoboken (Antwerpen)

### **CANADA**

REKORD MARINE ENTERPRISES Ltd.  
8194 Ontario Street  
Vancouver B.C. V5X 3E3

### **CANARY ISLANDS**

NORDEST - Roberto Origgi  
Ap. de Correo 10431  
38080 Santa Cruz de Tenerife

### **CARIBBEAN**

BUDGET MARINE N.V.  
P.O. Box 434  
25B Waterfront Road - Cole Bay - St. Maarten

### **CROATIA - SLOVENIA**

UNIMAR S.r.l.  
Via Valdirivio 26  
34134 Trieste-Italy

### **CYPRUS**

MERCURY DIVERS COMPANY LTD.  
15, Franklin Roosevelt Av. - Orphanides House  
P.O. Box 469 - Limassol

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Bommerhaveej 41 Sledel  
DK 7100 Vejle

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11(A) Mohamed Anis St.  
Zamalek - Cairo

### **ENGLAND**

E.C. SMITH & SONS LTD.  
Unit H & J Kingsway - Industrial Estate, Kingsway  
Luton Beds , LU1 1LP

### **FINLAND**

OY MARITIM AB  
P.O. Box 46  
00211 Helsinki 21

### **FRANCE**

ACCASTILLAGE BERNARD  
880 Avenue Saint Exupéry  
06210 Mandelieu

### **AMIOT S.A.**

41, Quai Duguay-Trouin - Boîte Postale 106  
35407 Saint-Malo

### **ELECTRIC-AUTO-YACHTING S.A.R.L.**

6, Rue de la Paix  
13001 Marseille

### **R.E.Y.A.**

144, Avenue de la Roubine  
06150 Cannes-La Bocca

### **SEIMI S.A.**

Rue Alain -Colas  
ZIP-Port du Moulin Blanc - Boîte Postale 243  
29272 Brest

### **VIDAL DIFFUSION MARINE**

Z.I. Toulon EST  
Toulon Cedex 9

### **GERMANY**

S.V.B.  
Gelsenkirchener st. 25  
28199 Bremen

### **GREECE**

ALEX MARINE  
5 Leocharous Str.  
185 31 Piraeus

### **HONG KONG**

ELCO MARINE & ENGINEERING LTD.  
20 Yip Fung Street  
Unit 6 , G/F - Lincoln Centre - Fanling  
New Territories HONG KONG

### **NETHERLANDS**

VETUS DEN OUDEN N.V.  
Fokkerstraat 571  
3125 Bd Schiedam

### **HUNGARY**

MIMOKER Co.  
Orso' Utca 3  
H 1026 Budapest

### **ISRAEL**

ATLANTIS MARINE LTD  
147 Kikar Atarim  
169 Hayarkon Str. – Tel Aviv 63453

### **LEBANON**

MARINE DIFFUSION  
B.P. 8389 Beyrouth

### **MALTA**

INTERNATIONAL MARINE CENTRE  
Ta'Xbiex Palace  
Testaferrata Street Msida

### **NEW CALEDONIE**

LIMOUSIN MARINE  
70, R.te du Port Despointes-B. P. 701  
Noumea

### **NEW ZELAND**

EUROMARINE  
P.O. BOX 10144  
Dominion Road-Aukland 10

### **NORWAY**

TELMO CONTROL A.S.  
Rolf Hofmos GT. 18 - Postboks 2906 Toyen  
0608 OSLO 6

### **POLAND**

MAZURIA  
11 214 Galiny 2

### **PORTUGAL**

NAUTICOR  
Rua Bartolomeu Dias 172 A/D  
1400 Lisboa  
Jurong Town Singapore 2261

### **SINGAPORE**

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IMTRA CORPORATION  
30 Samuel Barnet Blvd  
New Bedford Industrial Park - New Bedford  
Massachusetts 02745