

IN MAST FURLING ELECTRIC ASSEMBLY INSTRUCTIONS

rev 6

Motor unit

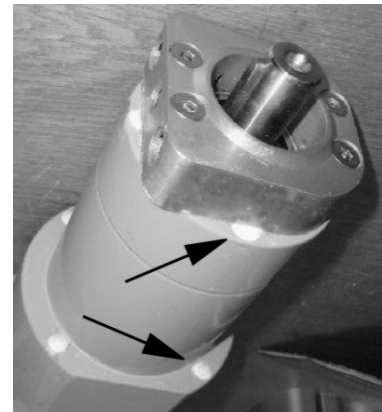
Driving wheel

1. Check motor for damages. If you find pores or air-holes in the coating, apply some paint

2. Seal counterbored holes on top of motor unit

RB-unit

Remove the top adapter. Clean all eight holes with Sika Cleaner-205. Leave to dry for at least 10min. With unit standing up, fill all holes with Terostat MS 931. Refit the top adapter using Loctite on screws.



TOP OF RB-UNIT

RC-unit

Same as above apart from that top adapter does not have to be removed. Take extra care when sealing the shallow four top holes.

3. Mount the V-ring on the driving wheel.

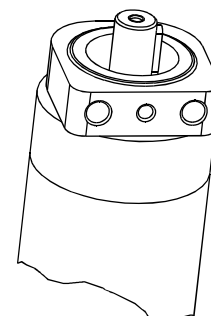
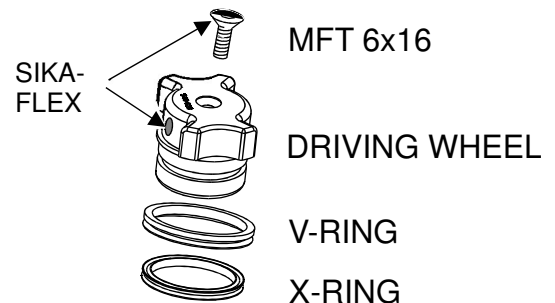
4. Mount the X-ring on the driving wheel.

5. Fill up with grease under x-ring level.
Use Mobile Grease XHP 103 (blue)

6. Put the driving wheel in position.

7. Apply Sikaflex on the edge of the countersunk hole of the driving wheel, and on the MFT screw, and tighten it.

8. Apply sikaflex in the hole on the side of the driving wheel



MOTOR SHAFT
& KEY

Electrical cables

1. Cut cables in appropriate length (5m=standard)

531-026	CABLE 1X16mm ² BROWN
531-027	CABLE 1X16mm ² BLUE
531-028	CABLE 1X16mm ² WHITE
531-033	CONTROL CABLE 7X0.75mm ²

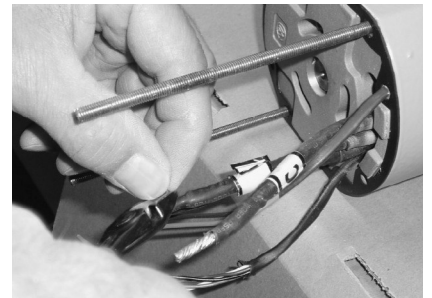
2. Cut 3 x 35 mm 319-559 HEAT SHRINK.

3. Insert two threaded guiding rods (see picture) and dismount the rear plate of the motor unit.



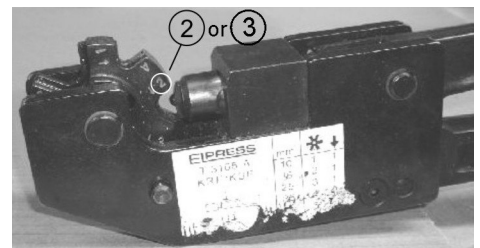
4. Lead the four cables through the glands in the rear plate, and through the connection housing.

5. Dismantle the 16 mm² cables 16-18 mm. Also dismantle the A-, B- and C-cable from the motor 16-18 mm (see picture) and insert the two cables (from same direction) into the splice terminal. Note that different terminals are used for 12 and 24 V motors.



A = BROWN
B = BLUE
C = WHITE

6. Make the settings of the crimp tool (see picture). (The settings are one size "smaller" than the recommendations for the crimp tool)



Terminal 532-446 (25 mm²); setting= 2
Terminal 532-447 (35 mm²); setting= 3

7. Crimp twice on each terminal.

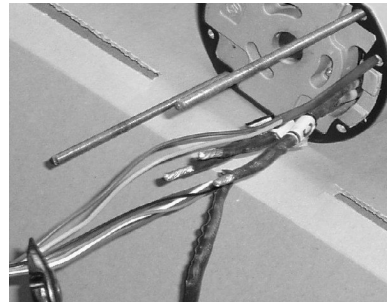


8. Apply heat shrink on each terminal. Let the tube stay 8 mm over top of terminal (left picture) to achieve a little cap (right picture).



9. Dismantle the 7x0.75 mm² control cable 50 mm, and dismantle each core to 6 mm length.

10. Dismantle the 0.75 mm² signal cables coming from the motor, 6mm. If they are too long cut at 150 mm as illustrated beside.



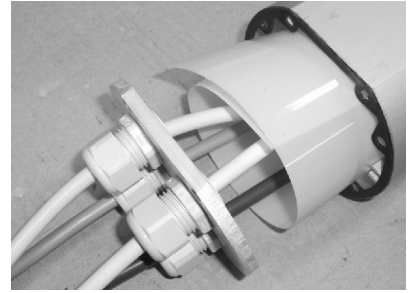
11. Connect the control cable cores to the signal cables from the motor. Use 7 pieces of 532-441 SPLICE TERMINAL (with shrink tube and melting glue included).



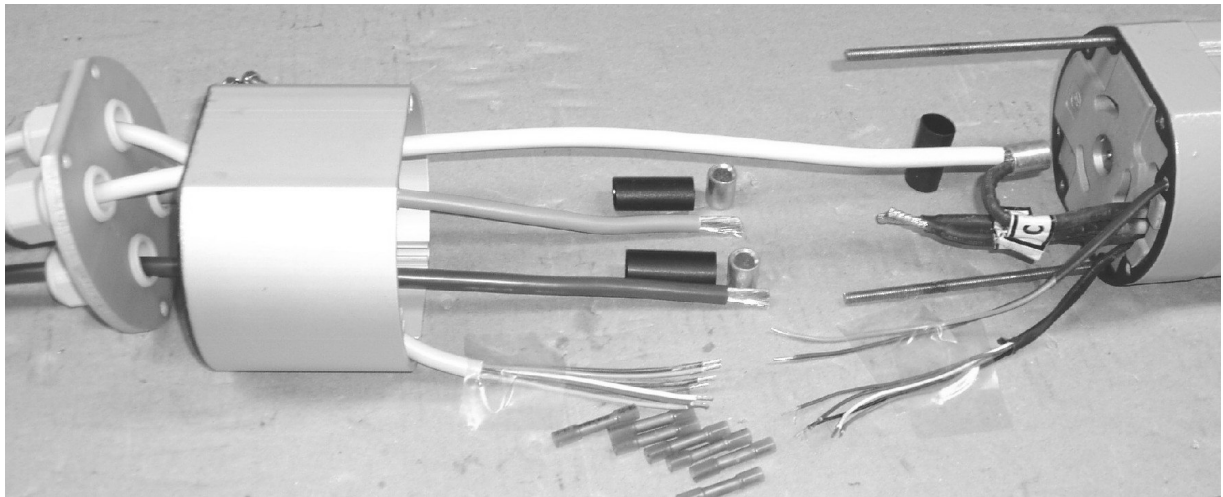
12. Heat and shrink the splice terminals for the 7 signal cables.

13. Apply the cable housing on the guiding rods.

14. Apply 330x65 INSULATOR (530-680) inside the cable housing (see picture).



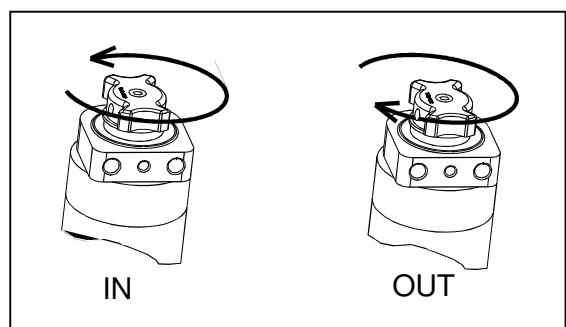
15. Stove cables inside motor, and refit the rear plate and nuts. Tighten the plastic nuts of the glands in the rear plate.



CABLE CONNECTION

Running test

Connect the motor cables to the sockets on the test-bench. Confirm that the motor is running in the right direction when you push the respectively button.



Control box

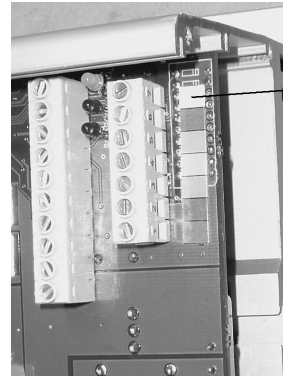
1. Set the dip switches according to **595-969-E**.

2 Apply a tag on the outside of the control box confirming that the dip-switches are properly set, “RB12V” for an example).

Put it just below the white label



3. Apply a color code label beside the signal cable terminal inside the box.



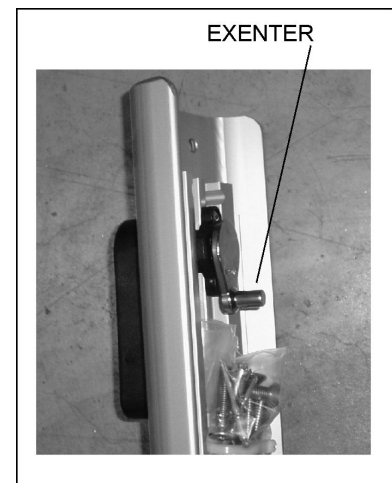
WHITE (7)
BROWN (6)
GREY (5)
YELLOW (4)
GREEN (3)
BLUE (2)
PINK (1)

Emergency Gear House

540-607-01 GEAR HOUSE FLN-E RB, RC			
Gear house pre. assy			
540-607	1	GEAR HOUSE 89x201,FLN-E,F228..	
170-106	3	INSERT THREAD M6x9 ST	
170-113	2	INSERT THREAD(LOCK) M8x12 ST	
Shaft pre. assy			
166-373	1	GEAR SHAFT ϕ 20x215(FLN-E/RB)	
540-126	1	PROTEC.COVER ϕ 57/18-20(FURL)PU	
540-614	1	COVER ϕ 70x14 AL	
539-223	1	BALLB.RING ϕ 44x8(OUTER)ST	Apply grease to ball race (blue grease)
539-128	12	BALL ϕ 8 ST	
540-616	1	WORMWHEEL ϕ 40x47 BRONZE	Thicker flange upwards
166-376	2	PIN ϕ 6x28.5 ST	Use locking adhesive
539-223	1	BALLB.RING ϕ 44x8(OUTER)ST	
319-591	12	BALL 5/16" TORLON	
164-027	1	WASHER ϕ 30/20-1 NYLON	
Carrier pre. assy			
540-619	1	SLIDER ϕ 60x50	
319-590	16	BALL 1/4" TORLON	
540-620	1	CARRIER ϕ 60x66	
319-590	16	BALL 1/4" TORLON	
164-463	1	WASHER ϕ 38/28-2	
301-530	1	CIRCLIP MST109	
166-519	1	SPRING PIN ϕ 10x20 A2	
540-617	1	FORK 90x82	
166-519	1	SPRING PIN ϕ 10x20 A2	
FINAL ASSY			
Gear house pre. assy + Carrier pre. assy			
165-119	1	CLEVIS PIN ϕ 8x55 ST	
164-002	2	WASHER ϕ 17/8-2 (M8) NYLON	Between fork and gear house
301-047	1	SPLIT PIN ϕ 2.3x12(14) UEL,"2.5	
162-025	3	SCREW MFT 6X16 ST	Use locking adhesive
540-621	1	CARRIER GUIDE ϕ 60x21	
166-374	1	SHAFT ϕ 8x36(FLN-E)	
306-345	1	BUSH ϕ 16/12-19 PA	
Shaft assy			
166-668	1	SPRING PIN ϕ 4x20 FRP A2	
319-591	1	BALL 5/16" TORLON	
308-040	1	SPRING 8x47 ST	
540-615	1	SCREW ϕ 28x79 ST	Apply grease to worm gear (blue grease)
540-618	1	BEARING 50x40 POM	
162-025	2	SCREW MFT 6X16 ST	Use locking adhesive

Cover Assy

Make sure the EXENTER is orientated as in the picture, compared to the black emergency handle on the front of the cover.



Label placement

