

## TECHNICAL MANUAL

### Maintenance and Operation Instructions

---

## LEVER CONTROLS

---

### CM01



#### CAUTION

Before to install and start-up, please read  
the “Technical Manual”.

### Certificate of Warranty

*Riviera Srl declares that its products are manufactured in a workmanlike manner and comply with current regulations.*

*The warranty is valid 24 months from the purchase date.*

*If the Riviera products are installed and used for commercial purposes, the guarantee is limited to one year from the purchase date, without further warranty extensions.*

*The warranty does not cover any costs deriving from assembly or disassembly of products, transport of the same and expenses for technical personnel, even if attributable to manufacturing defects.*

*Upon receipt a defective product, it will be examined to determine the cause of defect. If the product is determined to have a defect in workmanship or material, it will be repaired or replaced at the Riviera discretion.*

*This guarantee does not cover products that have been misinstalled or misapplied, it does not cover claims for direct or indirect damage.*

*Riviera Srl Genova decline liability and guarantee if products are improperly installed, misapplied or misused.*

## ASSEMBLY INSTRUCTIONS ON BOAT

### SETTING OF THROTTLE LEVER DIRECTION

1. Check in **Fig.2** whether the throttle lever position is correct, according to the type of engine.
2. In order to invert the throttle direction (from traction to compression or vice-versa), insert the lever in its hub. Apply some pressure on the lever (**Fig.3**) so as to position the gear in neutral and rotate it through 180° (to the next release point).

### STOP RING ASSEMBLY

1. The stop ring shall be oriented according to the single lever control position in respect of the steering place as shown in **Fig.1**.
2. Insert the stop ring (**2**) in its seats on the single lever box (**1**) and fasten it by means N°4 self-tapping screws d.2.9x16 (**4**).
3. Apply the rectangular label (**3**) on the box.

### LEVER INSTALLATION

Before proceeding with the installation, check that the gear is in neutral position (see **Fig.2**)

1. Insert the lever (**5**) in the hub, positioning the safety lock in the stop ring key (see **Fig.3**).
2. Fasten the lever with one M6x20 screw (**6**) and tighten.
3. Fix the cover (**4**) in its seat.

## CONTROL CABLES PREPARATION

*The single lever control CM01 can be used with RIVIERA F05 - F14 - F02 and F08 cables.*

1. USE OF F02–F08 UNIVERSAL CABLES (see Fig.4):

Remove the protection cover (3) and the sealing (2) from the cable. Insert the cable connector (4) to the limit stop and insert the cable clamp block (5) in its slot. Screw the nut (6) and the cable end (7) on the threaded cable rod.

2. USE OF F05 CABLES (see Fig.5):

Insert the lower barrel (2) in the groove as shown in the figure. Insert the upper barrel (3) matching it with the lower barrel (2). Insert the elastic pin (4) making sure that the holes of the two barrels are perfectly aligned.

*The F14 cable does not need any adapter.*

## ASSEMBLY OF CABLE IN THE BOX

### INSTALLATION OF REVERSE CONTROL CABLE

1. Insert the reverse stud (1) in the control cable rod eyelet (Fig.6) and fix it with the stop ring (2). The cable shall be positioned in the "E" or "F" seat (Fig.3), according to the direction of the installation of the box (see Fig.7).
2. Insert the reverser stud (1) in the slot (Fig.6) and place it in position "C" (in ward) or "D" (outward) depending on the necessary stroke (Fig.7). Fasten the stud with one M4x18 screw (3).

### INSTALLATION OF THROTTLE CABLE

1. Insert the cable in the throttle stud (5) and fix it with the stop ring (2) (Fig.6). In case of acceleration by traction, the cable shall be positioned in "A", while in case of acceleration by compression, the cable shall be positioned in "B".

### IN CASE OF THE USE OF UNIVERSAL CABLES F02 OR F08 THE WORKING POSITION IS ALWAYS THE "A"

Before proceeding, check that the assembly is correct by moving the lever back and forth, making sure that the cables allow the entire stroke to be carried out.

*If necessary, using universal F02/F08 cables, adjust the stroke by screwing/unscrewing the terminal (7) (see Fig.4).*

2. Insert the lock cable (6) fully (taking care that the cable barrels correctly engage the respective seats and fix it with 4 screws M4x40 (7) (see Fig.6).
3. Perform some lever movements back and forth making sure that the cables work properly and that they are installed in the correct position.

### ASSEMBLING OF THE BOX ON THE WALL

1. Place the single lever box in the desired position. Insert the cover **(1)** (see Fig. 8).
2. Fix it by means of N°2 self tapping screws d.4x40 **(2)** and N°2 self tapping screws d.4x60 **(3)** (see Fig. 8).

### USE OF THE CONTROLS

The CM01 single lever control is provided with a safety lock switch, to avoid accidental in-gear starting. To engage the gear, press the switch and push the lever. Warm up of the engine can be done, while in neutral position, by pushing the lever (the safety lock remains engaged).

It is recommended to carry out a complete check of the system after few hours of operation, and to carry out periodical overhauls. If the steering system is unused for long time, an accurate test is recommended.

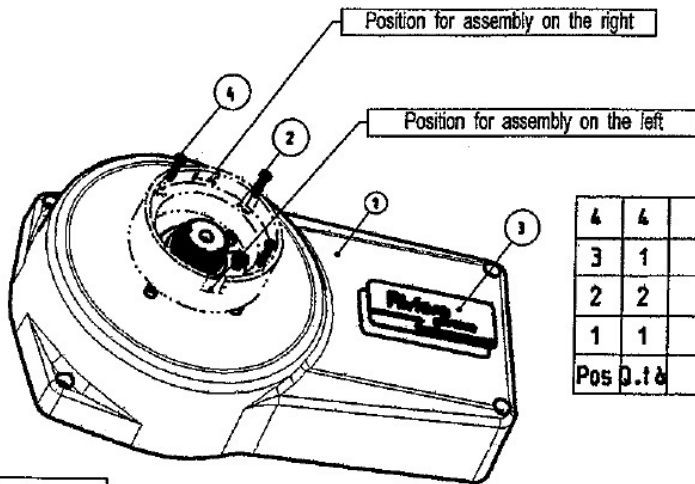


Fig. 1

4	4	A2 2.9x16 UNI 6955 DIN 7983 screw without point
3	1	Rectangular label
2	2	Stop ring
1	1	Single lever box
Pos	Q.tà	Description

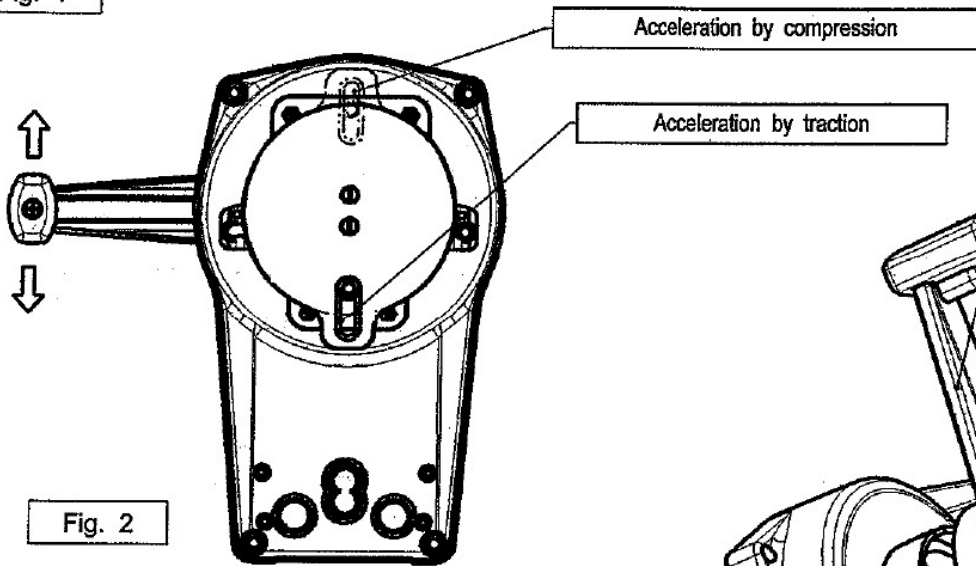


Fig. 2

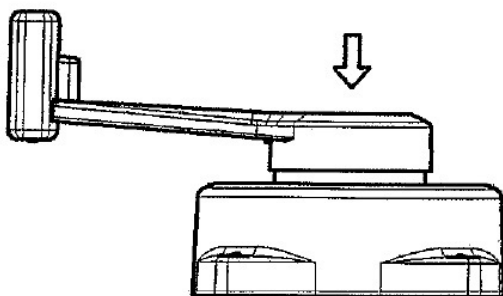
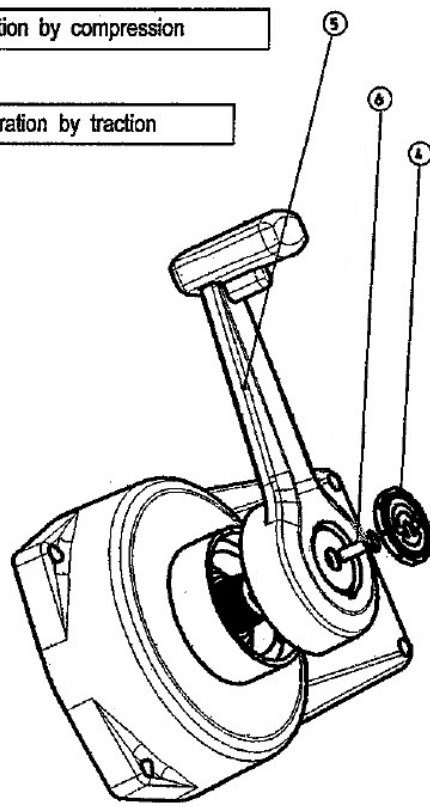
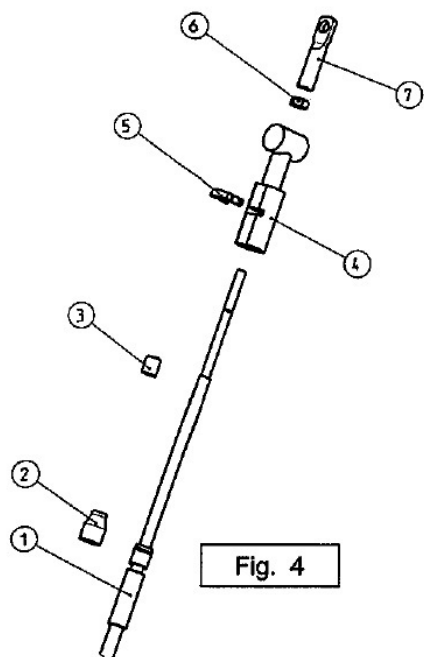


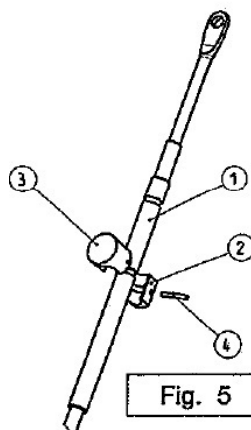
Fig. 3

6	1	A2 M6x20 screw
5	1	Lever
4	1	Cover
Pos	Q.tà	Description



Pos	Q.ty	Description
1	1	F02/F08 Cable
2	1	Sealing
3	1	Protection cap
4	1	Connector cable
5	1	Cable clamp block
6	1	Nut
7	1	Cable end

Fig. 4



Pos	Q.ty	Description
1	1	F05 Cable
2	1	Lower barrel
3	1	Upper barrel
4	1	Elastic pin

Fig. 5

"D" Position: stroke 78.5 mm

"C" Position: stroke 67 mm

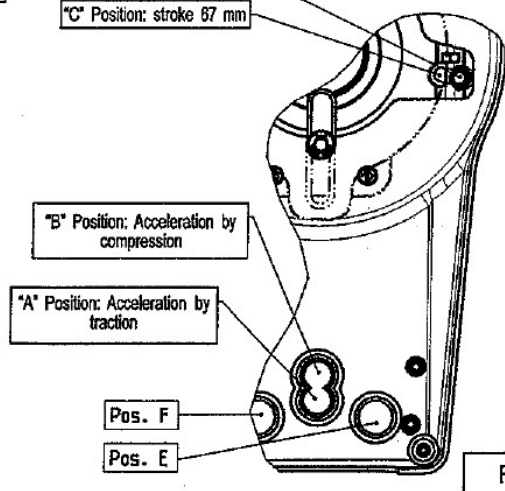


Fig. 7

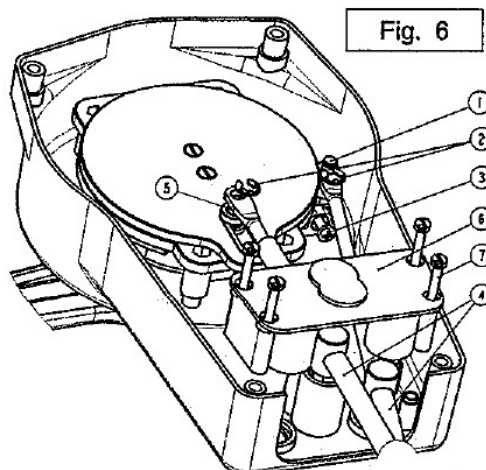
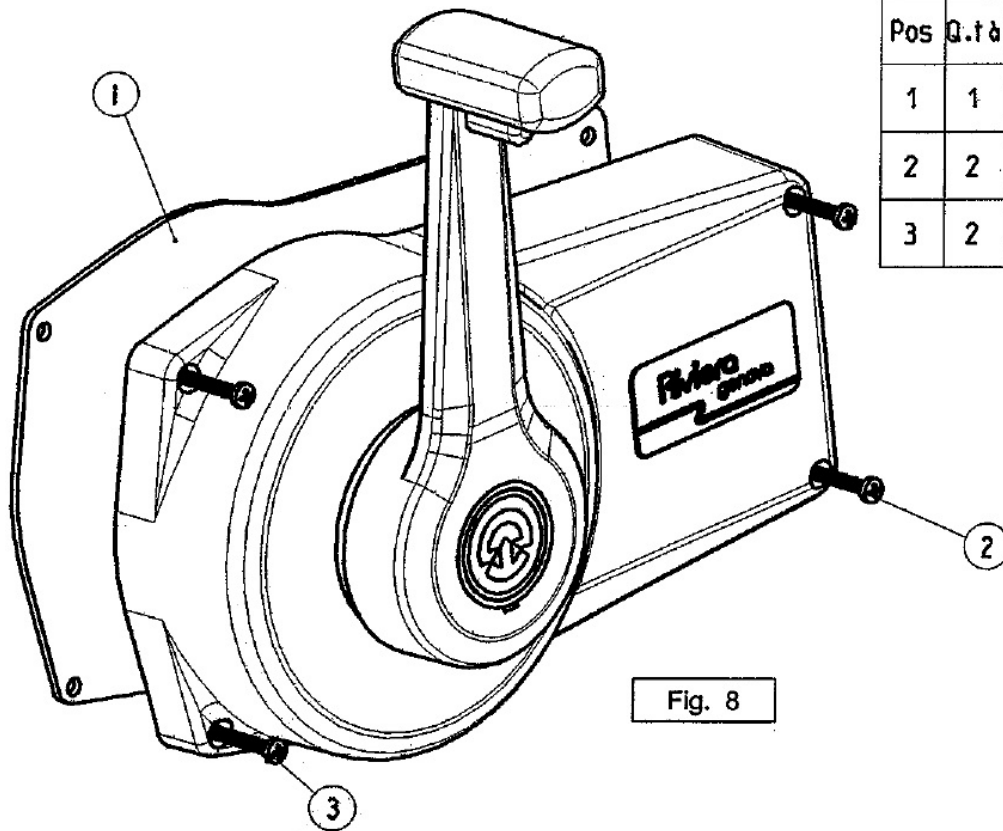


Fig. 6

Pos	Q.ty	Description
1	1	Reverse stud
2	2	Stop ring
3	1	M4x18 Screw
4	2	Control cable
5	1	Throttle stud
6	1	Lock cable
7	4	M4x40 Screw

NOTE: F02/F08 universal cables shall always be placed in "A" position, both in case of acceleration by traction and for acceleration by compression



Pos	Q.tà	Description
1	1	Cover
2	2	d.4 x 60 Screw
3	2	d.4 x 40 Screw

