

## **MAN 652-0M4**

## F02 Non intrusive configuration tool

## **User's Manual**



0.0	March 2006	First issue	A.G	G.A.
Rev.	Date	DESCRIPTION	Prepared	Approved

Note:

Biffi Italia has taken every care in collecting and verifying the documentation contained in this Instruction and Operating Manual.

The information herein contained is reserved property of Biffi Italia.

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## **1 OPTIONAL MODULE 4: NON INTRUSIVE CONFIGURATION TOOL**

## 1.1 MANUFACTURER

Manufacturer with respect to Machinery Directive 98/37: BIFFI ITALIA as specified on the motor label.

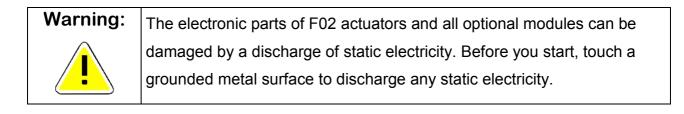
## 1.2 NON INTRUSIVE CONFIGURATION TOOL

The Optional Module OM4 NON INTRUSIVE CONFIGURATION TOOL is supplied as an OPTION on BIFFI F02 actuators.

It is possible to receive the actuator already equipped with the OM4, if the module is ordered together with the basic version. Alternatively, it is possible to order the OM4 as a separate kit to be later installed on the basic actuator.

The **OM4** optional module, based on "Bluetooth<sup>™</sup>" technology as a stand-alone unit, allows your PDA or PC to have direct access to the F02 actuator for non-intrusive operation, configuration and diagnostics.

# Warning:F02 actuator must be electrically isolated before all disassembling and<br/>reassembling operations. Before any disassembling or reassembling<br/>operations, please follow closely the relevant paragraph of the Basic<br/>Instruction and Operating Manual MAN 652 (latest revision available).



Warning:	It is assumed that the installation, setting, commissioning, maintenance
	and repair works are carried out by qualified personnel and checked by responsible Specialists.

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Warning:	Repair work, other than the operations outlined in this manual, is strictly
	reserved to qualified BIFFI ITALIA personnel or to personnel directly authorized by the Company itself.

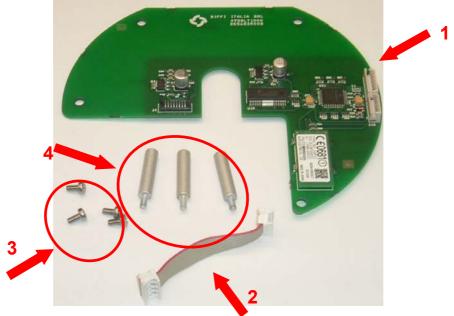
Warning:	The controls available via Bluetooth <sup>™</sup> allow full actuator operability at a		
	distance also when the valve is not visible. Special attention must be paid		
	under this condition to avoid all damages or injuries to people working		
	close to the valve. BIFFI will not accept any responsibility for damages or		
	injuries caused by an improper use of your Bluetooth <sup>™</sup> PDA.		

## 2 INSTALLATION

To assemble the OM4 module onto the F02 actuator, proceed as follows:

a. Ensure that all the parts received with the OM4 are available (see Picture 1):

POS.	Description	Q.TY
1	Bluetooth Stand Alone Electronic Card	1
2	Connecting Cable	1
3	Screws for Fixing Electronic Card	4
4	Spacers (only for F02 models 063 & 125)	3



Picture 1: OM4 kit for F02 actuator

b. Gather the right tools for the assembly (a 5 mm Allen key and a screwdriver, Picture 2):



Picture 2: Tools for installing OM4 kit

c. With the Allen key, loosen the 4 cover screws and remove the actuator enclosure (see Pictures 3 and 4). The inner actuator will appear as shown in Picture 5.





Pictures 3/3a: Removing F02 Actuator Enclosure



**Picture 4: Actuator Cover and Screws** 

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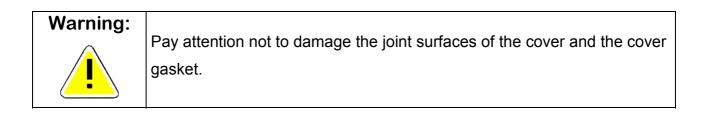




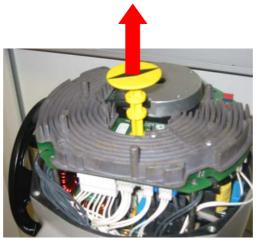
F02 Model 063/125

F02 Model 250/500

Picture 5/5a: Actuator inner part



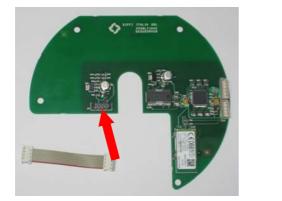
d. Remove the Indicator Shaft from its position



Picture 6: Removing the Indicator Shaft

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e. Connect the Connecting Cable to the Bluetooth<sup>™</sup> Stand Alone Electronic Card as shown in Picture 7.





Picture 7/7a: Installing the Cable on the Electronic Card

f. Install the Electronic Card just assembled on the Actuator, connecting the cable on connector J8 on the Card as shown in Picture 8.





Picture 8/8a: Installing the Electronic Card on the F02 Actuator

g. Fix the Card to the actuator with the 4 screws supplied in the optional kit (F02 models 250/500) or with the 3 spacers and the 4 screws (F02 models 063/125):

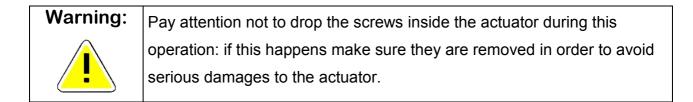


Picture 9: Electronic Card Fixed on F02 models 250/500

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Picture 9: Fixing Spacers and Electronic Card on F02 models 063/125



- h. The Electronic Card is now installed on the F02 Actuator.
- i. Re-assemble the Indicator Shaft removed during operation "d" and the Enclosure Cover:





Picture 10: Re-assembling the Indicator Shaft and Cover Enclosure

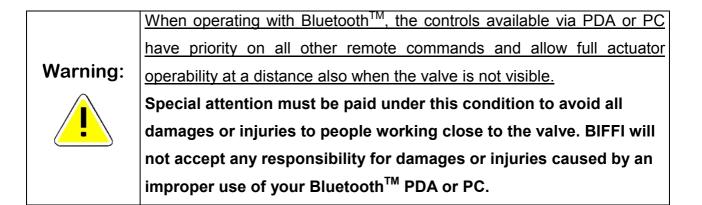
j. The installation of OM4 Non-Intrusive Configuration Tool module onto the F02 actuator is now complete.

## **3 DESCRIPTION OF OM4 NON INTRUSIVE CONFIGURATION TOOL**

When Bluetooth connection to the F02 is requested, simply follow the connection procedure indicated in MAN 659 and 660 for PDA and PC.

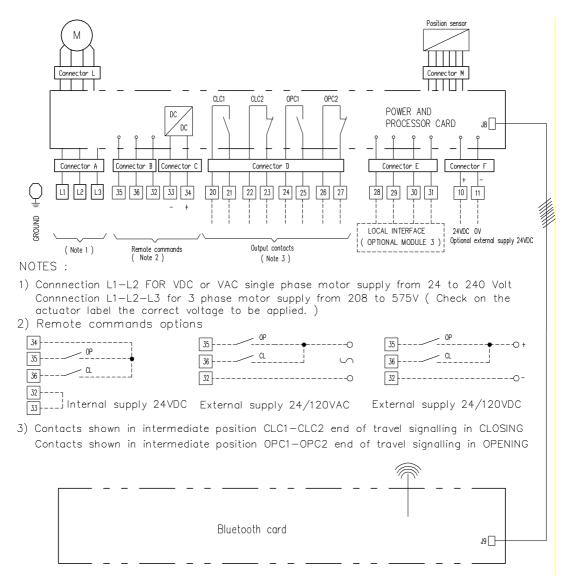
Once OM4 module is installed, all commands from PDA or PC have priority on remote commands to the F02.

If F02 is provided with OM3 (Local Interface Module), please bring the local selector to Remote position to set the actuator to establish connection.



For all information about the installation and use of the "A Manager" software with the OM4 module, please follow closely the relevant Installation and User Manual MAN 659 ("A Manager" Software for PDA) or MAN 660 ("A Manager" Software for PC), latest revision available.

## 4 OM4 WIRING DIAGRAM



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