

## SAFETY INSTRUCTIONS



### WARNING !

#### INSPECTION ROUTINES, MAINTENANCE OR REPAIR

- The actions described in these instructions are strictly reserved for Service Technicians who have been authorized by the manufacturer. Any actions carried out by personnel who are unauthorized by the manufacturer will be considered to be improper and will result in the automatic void of washer's warranty.
- The manufacturer will not accept responsibility for any physical and/or material damage caused by actions taken by unauthorized personnel.
- Compliance with the safety warnings listed in the Installation Manual is obligatory; check them before. Read them before servicing the washer.
- Avoid carrying out any course of action on the machine without having first carefully read the washer's installation and operating manuals, paying special attention to the safety instructions.
- Making inspections, maintenance or repairs without taking safety measures or having the necessary technical competence can cause **ELECTRICAL SHOCK OR SERIOUS ACCIDENTS**.
- **COMPLETELY** disconnect the machine from the original power source and check for accidental reconnection.
- Disconnect the electrical connection from the external dosing to the washer. These circuits are independent of the supply to the washer.
- Moving the **ON switch** to the OFF position is not sufficient
- Wait a minimum of (5) five minutes after disconnection to ensure the elimination of residual voltage within the machine.
- Close and mechanically interlock the water supply valves and check that machine has **COMPLETELY** drained, parts have cooled down and that no pieces are in movement through inertia

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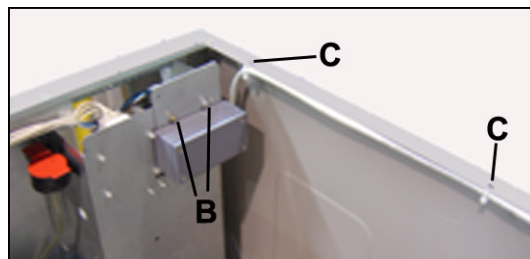
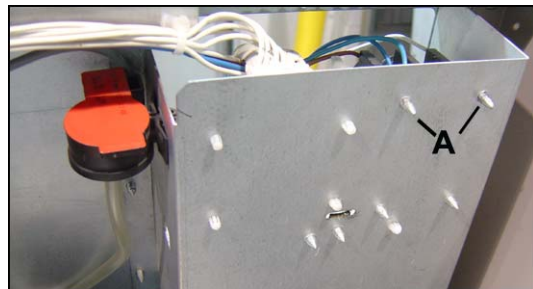
1. INSTALLATION
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option only applicable to HS-6 / MS-6 Coin Control

## 1. INSTALLING THE VENDING BOX

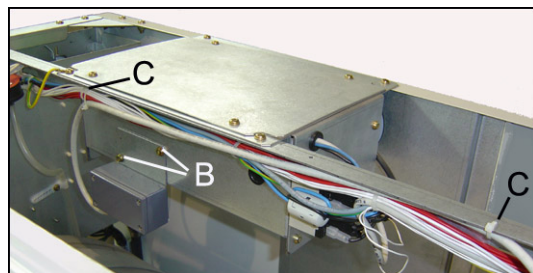
### HS-6008 - MS-610

- Open the locks and remove the top cover.
- Machines with electric heating: replace the top fixing bolts (A) for the heating relay or relays by the M4 bolts supplied with the kit.
- Mount the vending box on the outside panel of the electrical wiring box and tighten with the M4 nuts (B).
- Machines without heating: fix into the corresponding holes.
- Fix the electric wiring using straps (C).



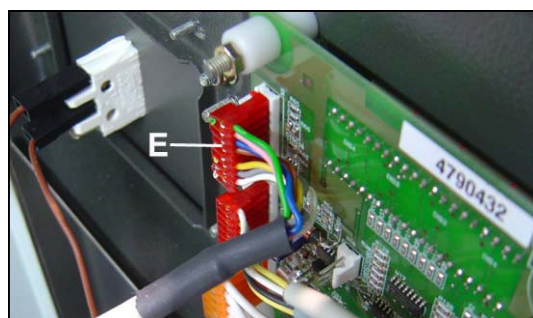
### HS-6 - MS-6

- Open the locks and remove the top cover.
- Remove the protective cover from the inverter connector.
- In place of the cover, fix the vending box using the same screws (B).
- Fix the electric wiring using straps (C).



### Common to all models:

- Connect the cable from the vending box to the microprocessor board, connector X8 (E).
- Replace the top cover.



option only applicable to HS-6 / MS-6 Coin Control

## 2. CONNECTION TO CENTRAL VENDING POINT

(Extract taken from the installation manual for Coin Control washers).

It is possible to connect the washer to an external central vending point by means of an adaptation circuit installed inside the washer. This option allows payments to be made and the prices to be controlled entirely from the central vending point.

The adaptation circuit allows the **PROGRAM START** command to be received from the central vending point and at the same time, a relay contact informs the central vending point of the **AVAILABILITY OF THE WASHER** to start a wash cycle.

### a) PROGRAM START command. Features.

The adaptation circuit is able to receive two signals or electrical impulses of different potentials from the central vending point. Each impulse detected by the circuit adaptor will decrease the value needed to start the wash cycle by one unit. When the total value has been accounted for, the washer will begin the wash cycle.

It must be pointed out that the Start Wash Program command can be overridden by pressing the **STOP** button on the washer's keyboard. Refer to the **PSH** parameter in the **Mod** menu in the Advanced Coin Control Instruction Manual on the manufacturer's Web: [www.girbau.com](http://www.girbau.com).

Features and wiring for different inputs (see board A8 on electric circuit diagram)

- Alternating current signal: voltage between 115 and 230V. Connection terminals: X1-4 and X1-5.
- Direct current signal: voltage between 5 and 25V. Connection terminals: X1-7 and X1-8.

The minimum duration for these impulses will be 50ms (0.05 seconds).

The electrical features on the central vending point will determine the application of one or another electrical signal.

### b) AVAILABILITY OF WASHER indicator. Features.

Free voltage relay contact. Maximum voltage: 250V.AC.

- Machine NOT AVAILABLE. Contacts closed between terminals C and NC (X1-1 and X1-2). Washer not in operation, door open, end of cycle or in the process of a wash cycle.
- Machine AVAILABLE. Contacts closed between terminals C and NO (X1-1 and X1-3). Washer ready to begin a wash cycle and door closed.

Making use of the AVAILABILITY indicator will depend on the central vending point's operating features.

### 2.1. Electrical connection from the central vending point to the washer

#### Signal conductor

- Features of the conductor: minimum section: 0.35mm<sup>2</sup>; minimum voltage: 250V.
- If using single-wire conductors, these must be encased within a safety conduit.
- The conductor must be affixed to the inlet opening of the machine using a secure connection appropriate for the type of conductor.
- The conductor must be protected against traction, crushing and friction.
- Additional specifications for the conductor: must comply with the statutory regulations of the country in which it is to be installed.

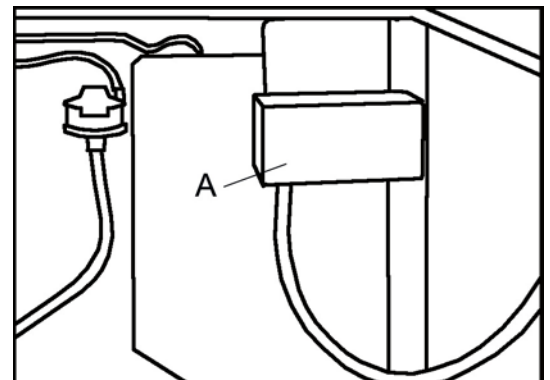


fig. 1

option only applicable to HS-6 / MS-6 Coin Control

#### Connecting the central vending point to the washer

- Disconnect and mechanically lock the external automatic switch.
- Open the machine's top cover.
- Fix a conductor bracket (not supplied with the washer) to the inlet hole and secure the conductor in place. (refer to installation specifications, in the corresponding Installation manual).
- Open circuit adapter box cover **A**. This box is located on the side of the inverter box (**fig. 2**) (HS-6008 & MS-610 units located at the rear panel **fig. 1**). Drill a hole in the inlet box protector to the size of the conductor to be used.
- Connect the communication signal wires up to the vending circuit on to terminal strip **X1**, according to the instructions in the previous section (**fig. 3**). Close the circuit box.
- Position and lock the top cover in place.

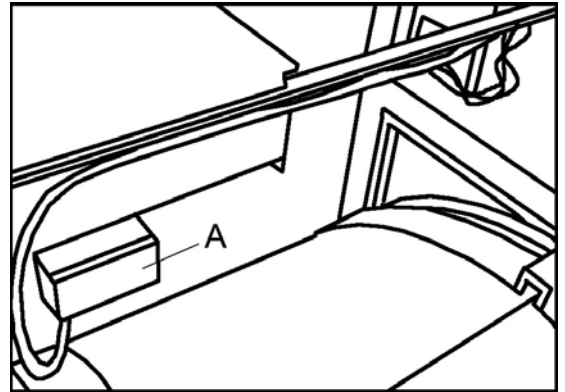


fig. 2

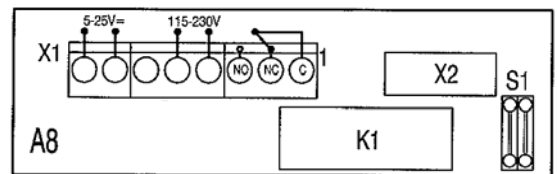


fig 3

### 3. Washer configuration

In washers connected to central vending points, the configuration for the token or coin meters (parameter **P**) should be configured as tokens (value **to**)

Refer to CONFIGURATION of COIN control in the Service Manual on the manufacturer's Web:

[www.girbau.com](http://www.girbau.com).