

Warranty

The conditions of warranty applicable to the radio remote control are specified in the "Warranty Certificate" in the manual.

The electronic components which have a 3 year guarantee are: MTX_____, MRX_____, RD97_____, RI97_____ and CH97_____.

Technical data sheet

The technical data sheet shows the wiring system between the receiving unit and the machine. It should be filled out and checked by the installer, who has the responsibility of a correct wiring.

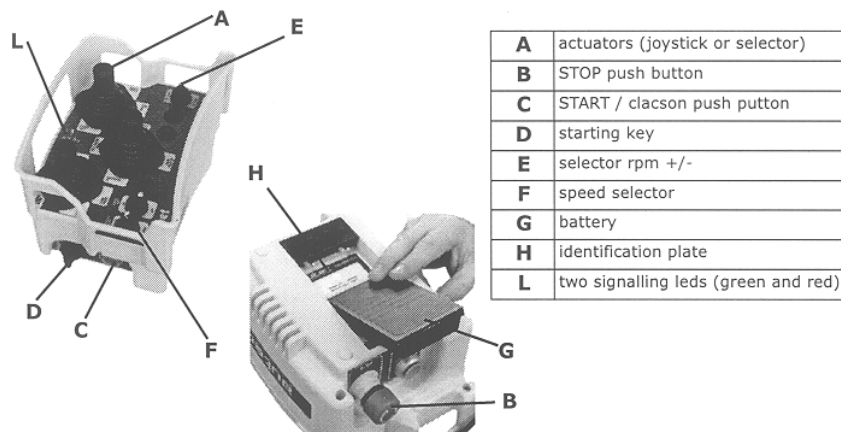
Once all necessary checks have taken place the installer must undersign the technical data sheet, which must be kept with the user's manual (always keep a copy of this data sheet in case it could be required).

Identification plates

The radio remote control identification data are written on a technical data plate both on the transmitting unit and on the receiving unit.

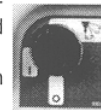
The plates MUST NOT be removed from where they are placed or damaged. In this case, the warranty will be forfeited.

9 TRANSMITTING UNIT AND HOW IT WORKS



Power on and starting

Check that the starting key is in position "O", insert the battery in its housing without force. Check that the STOP push button has not been pressed and that none of the actuators have been out of neutral position. Turn the key to "I" and activate START push button and release it when the green light starts to flash.



The transmitting unit only switches on if the battery is charged enough and if all the actuators are inactive.

Commands

It is possible to control the radio remote machine only after the transmitting unit has been radio linked to the receiving unit (signalled by the lighting up of the ENABLE pilot light on the receiving unit (see chapter 10)).

Activate the actuators that carry out the moves to be made.

All commands protected by the SAFETY function are approved category 3 of EN 954 - 1 against the undesired movements when in the standstill position (UMFS - Unintended Movement From Standstill).

Clacson

Some transmitting unit commands are given below:

With the transmitting unit switched on, press the START pushbutton: the machine horn/alarm activates.

STOP

To immediately stop the machine, press the STOP pushbutton: the transmitting unit switches off automatically.
To start working again, rotate the STOP button in the direction indicated and repeat the power on and starting procedures.



The STOP pushbutton must be used each time the machine has to be stopped immediately because of a danger situation.

The STOP circuit is approved in category 4 according to the EN 954 -1.

RPM +/-

This selector works in two ways:

- 1) during normal operation: increases (rpm +) or decreases (rpm -) the machine motor turns
- 2) during the setting up phase REMOTE SET UP: see chapter 11



Speed selector

A speed selector may be present, which makes the machine operate at different speeds as necessary. This selector can have two, three or four positions which respectively activate two, three or four speed levels.



Frequency change

In case of interference or conflict with other radio systems, it is possible to change the radio frequency being used.

With the transmitting unit powered and started, keep the START pushbutton pressed for 5-6 seconds: a prolonged beep accompanied by the switching on of both signalling leds indicate that the frequency has changed. During this operation the receiving unit switches off: press the START pushbutton again to start working normally.

LED signals

Some transmitting unit operating conditions are signalled by two signalling leds (one green and one red):

Type of signal	Led	
	green	red
Slow flashing	normal operation	/
Quick flashing	Warning that the battery is almost not charged	Warning that the battery is not charged
Continuous light during power on *	/	Command operated during the power on
Both lights steadily lit simultaneously *	Frequency changed	
* accompanied by an acoustic signal		

When the battery is approximately 90% discharged, the green light will start flashing at a faster rate to inform the operator that the battery requires recharging. If the operator continues to use the radio control, approximately 3 minutes before the battery is fully discharged, the red light will start flashing and an acoustic alarm will sound. In this situation, the operator must return the machine to a condition of safety (by pressing the stop button), switch off the transmitting unit, and recharge the battery or fit a fully charged battery.

Power off

Turn the ignition key to "O".
Always remember to extract the starting key and put it in a safe place.

Automatic power off

The transmitting unit can switch off automatically when:

- the battery is not charged enough and/or
- the radio remote control has not been used for 3 and a half minutes (to deactivate automatic switching off, please contact Autec authorised personnel).

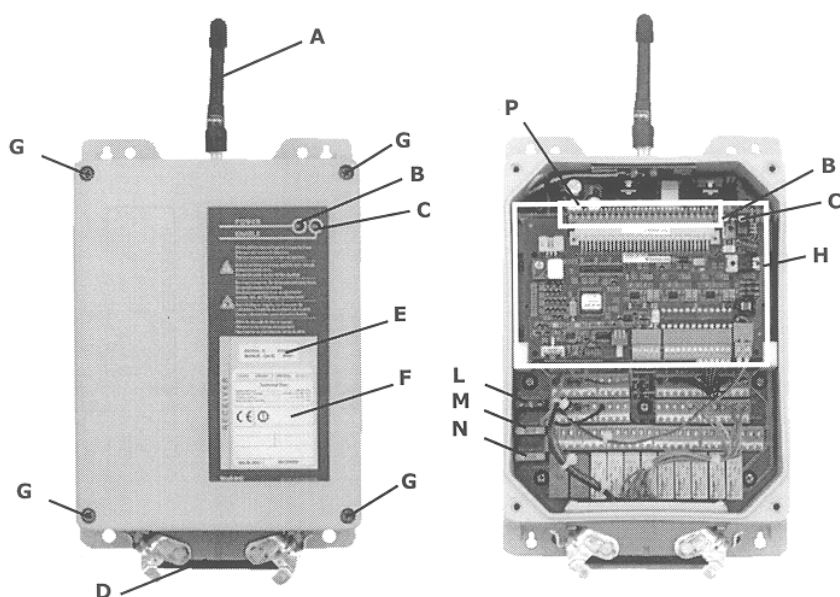
Recharging the battery

Remove the battery from the transmitting unit and insert in the battery charger. The "ON CHARGING" light will illuminate to indicate that the battery is being charged. Once the battery is fully charged, the "END OF CHARGE" light will illuminate. Battery charging should be performed at an ambient temperature within the range +5°C to +45°C.



See the supplied booklet for all instructions, warnings and technical data regarding the batteries and the battery charger.

10 RECEIVING UNIT



A	antenna
B	POWER light
C	ENABLE light
D	connection plug
E	identification plate
F	technical data plate
G	closing screws

B	POWER light
C	ENABLE light
H	RI97-08 module
L	fuse F1
M	fuse F2
N	fuse F3
P	internal led

External signalling

The POWER light indicates the presence (on) or not (off) of the power supply in the receiving unit

The ENABLE light indicates that the connection between the transmitting unit and the receiving unit is enabled (on) or disabled (off).

When the receiving unit is powered, proper operation is indicated when :

- POWER and ENABLE lights on, with transmitting unit on;
- POWER light on and ENABLE off, with transmitting unit off.