



Easy



...RADIO REMOTE CONTROL RECEIVERS USER AND MAINTENANCE MANUAL



WARNINGS

This manual is an essential part of the device and it should be thoroughly kept for later consultation. Carefully read the warnings contained in this manual, concerning safety and a proper preservation of the product. These warnings are **ALWAYS** to be carefully read before using the device. SIST&MATIC S.r.l. declines all responsibility for any trouble arising from the non-compliance with these warnings.

- **DO NOT TRAVEL WITH THE DEVICE SWITCHED ON**
- **CONNECT THE SYSTEM ONLY TO THE VEHICLE'S BATTERY**
- **BEFORE CARRYING OUT ANY MECHANICAL MAINTENANCE OPERATION (WELDING) ON THE VEHICLE, DISCONNECT THE BATTERY CLIPS.**
- **AVOID ATTEMPTING TO REPAIR THE DEVICE BY YOURSELF. REPAIRS PERFORMED BY UNSKILLED PEOPLE CAN CAUSE SERIOUS DAMAGES OR FAILURES. FOR ASSISTANCE, APPLY TO YOUR LOCAL AUTHORIZED SERVICE CENTRE. USE ONLY ORIGINAL SPARE PARTS.**
- **ALWAYS KEEP AT A SAFE DISTANCE FROM THE MOVING PARTS.**

TECHNICAL FEATURES

- Microprocessor electronics control;
- Glass reinforced polyester casing 80x75x55 grade of enclosure IP65;
- 12/24 VDC $\pm 10\%$ (10-30 allowed) rating power supply through connection to the vehicle's battery;
- Typical quiescent current: - 18mA a 12Vcc;
- 14mA a 24Vcc.
- Maximum suppliable current for each channel: 4A
- Maximum total suppliable current: 7A

SYSTEM CODING

It is necessary to code the system only if you have to replace the transmitter unit or if you want to use it with a different receiver from the one it was purchased with.

Follow the instructions to code the system:

1. Take the power supply off the receiver (emergency stop button released);
2. Open the receiver box, by unscrewing the 4 screws fixed on its top
3. Locate the coding pushbutton on the receiver board, shown in the picture below.



4. Push the coding button (and keep it pushed);
5. Put power into the receiver (emergency stop button released) keeping the coding pushbutton pushed
6. Wait for a few seconds (3-4 secs)
7. Release the coding pushbutton
8. Press any 3 keys at the same time on the radio control transmitter within 15 seconds since it has been switched on (also more times if it is necessary)
9. Check all the system functions (first, press START to enable the system reception)
10. Close the receiver box;

N.B.: The receiver can work with the radio control transmitters type: EASY, TREND and SMART

RELAY MOTOR RESETTING

The relay motor resetting is an operation to carry out in order to change its coupling with the other outputs (OUT1, OUT2, OUT3...) from the original standard system setting.



By a standard system setting when any key is pressed on the radio control transmitter the correspondent output + relay motor output is activated. (see "Instructions for use" in the radio control transmitter manual).

N.B.: The resetting operations can be carried out only by using the radio control transmitter *Easy* or *Trend*.

To change the relay motor output coupling with the output required, it is necessary to act as follows:

1. Open the receiver box, by unscrewing the 4 screws on the top
2. Put power on the receiver (emergency stop button released)
3. Press the coding button (and keep it pushed) on the receiver board (see the picture on the left hand side column)
4. Press START (and keep it pressed) on the radio control transmitter (Easy/Trend type)
5. Release the coding button and the key on the radio control transmitter
6. Activate in a row, by the radio control transmitter, the outputs that are to be coupled with the relay motor.
7. Press the coding button (and keep it pressed) on the receiver's board.
8. Press STOP (and keep it pressed) on the radio control transmitter.



Now the new output + relay motor coupling is recorded

9. Release the coding button and the key on the radio control transmitter
10. Check all the system functioning..

In case any error should occur while resetting the system, it is possible to cancel the operation, by taking the power off the system and repeating the operation.

CONNECTING INSTRUCTIONS

Description of the 2output receiver + relay motor connection to the users:

INPUTS/OUTPUTS LIST	CABLE NO.	CABLE COLOUR
OUT1	1	GREEN
OUT2	2	YELLOW
RELAY MOTOR	3	WHITE
+ BATTERY	4	RED
- BATTERY	YELLOW / GREEN	BLACK

Description of the 4output receiver+ relay motor connection to the users:

INPUTS/OUTPUTS LIST	CABLE NO.	CABLE COLOUR
OUT1	1	GREEN
OUT2	2	YELLOW
OUT3	3	GREY
OUT4	4	PINK
RELAY MOTOR	5	WHITE
+ BATTERY	6	RED
- BATTERY	YELLOW / GREEN	BLACK

Description of the 8output receiver+ relay motor connection to the users:

INPUTS/OUTPUTS LIST	CABLE NO.
OUT1	1
OUT2	2
OUT3	3
OUT4	4
OUT 5	5
OUT 6	6
OUT 7	7
OUT 8	8
RELAY MOTOR	10
+ BATTERY	11
- BATTERY	YELLOW / GREEN

DATAPLATES AND THEIR POSITIONING



Identification data plate of the receiver.



Positioning on the receiver box.



N.B.: Removing the identification data plates causes the existing warranties loss and involves the responsibility of SIST&MATICA S.R.L. to lapse with respect to the competent bodies

POSITIONING OF THE RECEIVER UNIT

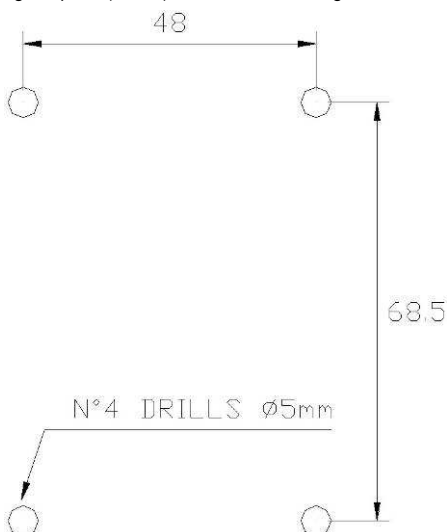
For a proper functioning, locate the receiver EASY with the cable output downwards, as shown in the following picture:



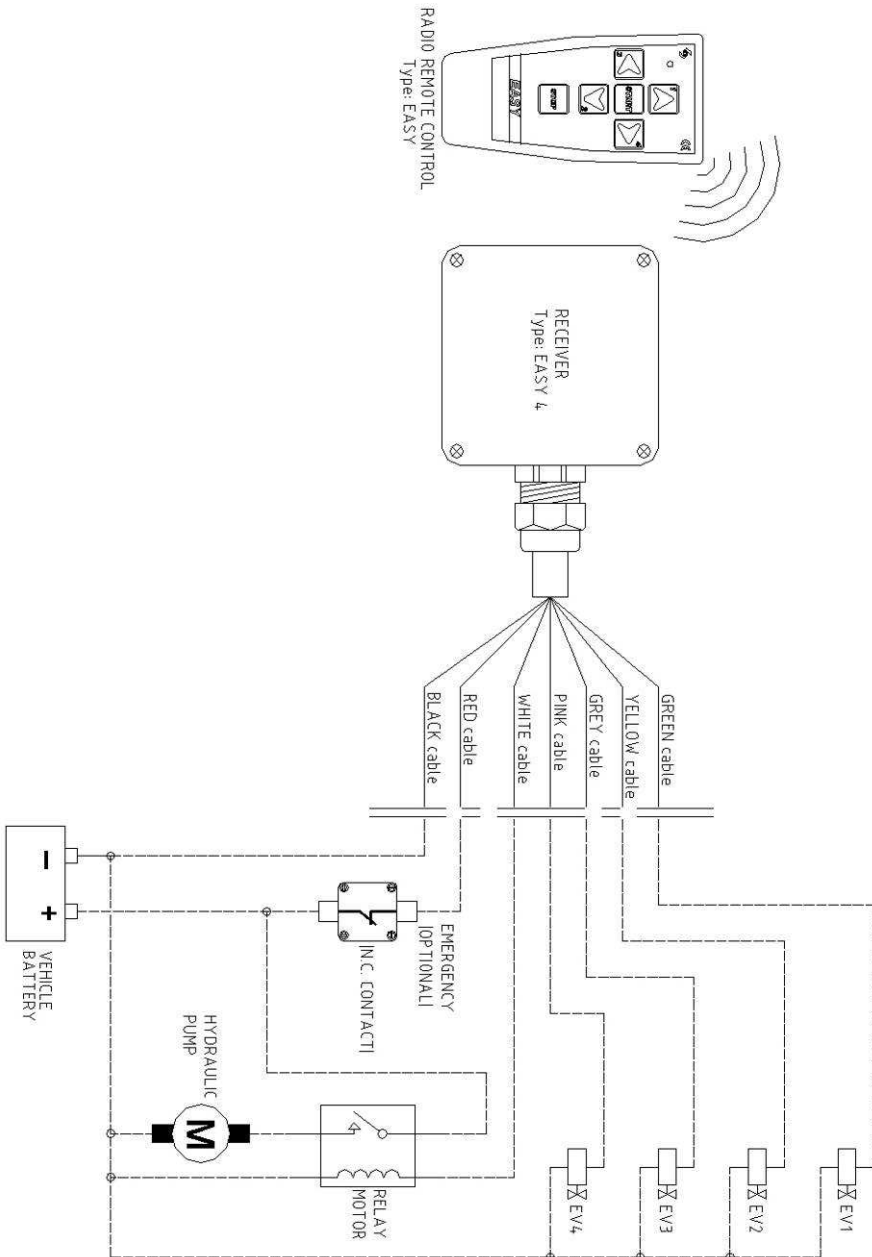
N.B.: Receiver with integrated antenna. Be sure to locate it at sight (not inside any metal box or screened by ferrous masses, ex. Protection carter...)



The figure below shows a drilling template (in mm) to be used for fixing the EASY receiver to the vehicle.



EXAMPLE OF APPLICATION



POLARITY REVERSAL

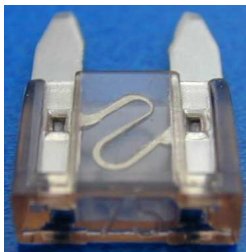
If the connection of the receiver towards the vehicle battery is not carried out properly (for instance, connecting the RED cable to the negative pole and the BLACK cable to the positive pole) the fuse that protects the electronic board might blow out. At this point it will be necessary to replace the damaged fuse with a new one.

Follow the instructions to carry out this operation:

1. Take the power supply off the receiver (emergency stop button released);
2. Open the receiver box, by unscrewing the 4 screws fixed on its top
3. Locate the damaged fuse on the receiver board, shown in the picture below.



4. Take the fuse out from the box
5. Put a new fuse inside (**MINI FUSE model type BLADE 7.5 A OMEGA RL07**). See images below



6. Put power into the receiver (emergency stop button released) and check the system's working by activating any key on the radio transmitter;
7. Close the receiver box.

TROUBLESHOOTING AND SOLUTIONS

PROBLEM	POSSIBLE CAUSE	SOLUTION
The system does not react to any command	The receiver is not powered	<ul style="list-style-type: none"> Check that the emergency stop button is released Check that the vehicle's battery is connected properly to the receiver unit Check that the fuses inside the receiver unit are sound; otherwise, replace them. Check that the green led inside the receiver unit lights
The system does not react to any command	Wrong connection of wires towards the users	Check the wiring towards the users (motors, solenoid valves, etc.)
The system does not react to any command	Wrong installation of the receiving antenna	Check the antenna installation Remote antenna: to be within a free field Integrated antenna: the receiver cannot be screened by ferrous masses
The system does not react to any command	System coding loss	Recode the system
The system does not react to any command	Wrong connection to the vehicle's battery	See section "POLARITY REVERSAL" in the previous page
Matching failure of keys with commands	Wrong connection of users wires.	Check the wiring towards the users (motors, solenoid valves, etc.)
The system reacts to commands in a not continuous way	The connections to the battery and users are carried out with cables having inadequate gauge and length	Check the connections to the battery and the users are carried out with cables having adequate gauge and length.



National Standards Authority of Ireland

EC TYPE-APPROVAL CERTIFICATE

With regard to Radio Interference of Motor Vehicles

Council Directive 72/245/EEC of 20th June 1972, as amended by Council Directive 95/54/EC of 31st October, 1995 of the approximation of the laws of the Member States relating to the radio interference suppression (electromagnetic compatibility) of motor vehicles.

EC Type Approval No: *e24*72/245*95/54*1039*00*

Reason for extension: *N/A.*

SECTION I

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|-------|---|--|
| 0.1 | Make (trade name of manufacturer's): | <i>SIST&MATICA Srl</i> |
| 0.2 | Type and general commercial description: | <i>Radio receiver for actuators.
Type: EAST 4.
Brand: SIST&MATICA.</i> |
| 0.3 | Means of identification of type, if marked on the separate technical unit: | <i>See 0.2 above.</i> |
| 0.3.1 | Location of that marking: | <i>On the cover of the main unit.</i> |
| 0.4 | Category of vehicle: | <i>M, N and O.</i> |
| 0.5 | Name and address of manufacturer: | <i>SIST&MATICA Srl,
Via Sandro Pertini, 17,
I-12030 Manta (CN),
Italy.</i> |
| 0.6 | In the case of components and separate technical units, location and method of affixing of the EEC approval mark: | <i>Adhesive label or engraving on the enclosure.</i> |
| 0.7 | Address(es) of assembly plant(s): | <i>SIST&MATICA Srl,
Via Sandro Pertini, 17,
I-12030 Manta (CN),
Italy.</i> |

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment".

SIST&MATICA SRL

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