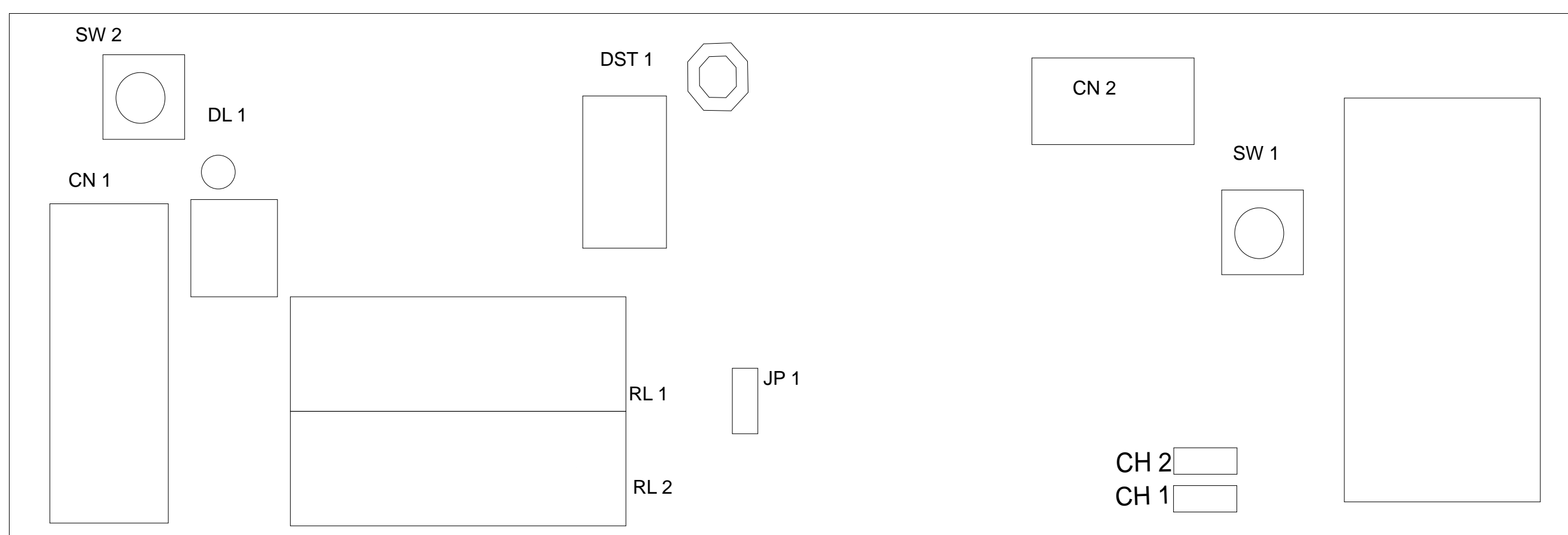**SEA**

S.E.A (UK) Limited,
Unit 6A Olton Wharf (off Richmond Road)
Olton, Solihull.
B92 7RN
Tele: 0121 706 9629, Fax: 0121 764 5603
Email: SALES@SEAUKLTD.CO.UK
www.seaukltd.co.uk

ISO 9001 SGS

Double Channel Receiver
with box - 50 users
INSTALLATION AND MAINTENANCE MANUAL

GENERAL
The reception module (RX) at 433.920 Mhz and/or 868.300 Mhz has been designed by SEA to speed the instillation procedure and guarantee the maximum working reliability through the following functions: radio transmitters self learning by acting on the receiver, impulse self learning from distance, memory erase, button/channel placement, erase of each single channel.

THE PACKAGE OF THE RECEIVER CONTAINS:
Electronic circuit
Installation manual
Plastic box
Whip Antenna

CN 1:	Power supply connector/relay exit
CN 2:	Antenna connector
JP 1:	Jumper to select power supply 12-24Vdc/Vac
CH 1:	Jumper to activate channel 1
CH 2:	Jumper to activate channel 2
SW 2:	Self-learning button
SW 1:	Button to erase memory
DL 1:	Led
RL 1:	Relay 1
RL 2:	Relay 2
DST 1:	Connector for whip antenna

Technical Data
Voltage: 12 - 24 Vdc
Consumption: 20mA (While not working)
Frequency: 433.920 and/or 868.300 Mhz
Sensitivity: -100dB
Coding: digital at 64 bit encrypted rolling code
Number of possible codes: 50
Number of channels: 2
Type of exit: monostable, bistable
Working temperature: -15°C/+60°C
Storage temperature: -40°C/+80°C
Dimension: 46 x 74mm

SPARE PARTS
To obtain spare parts contact:
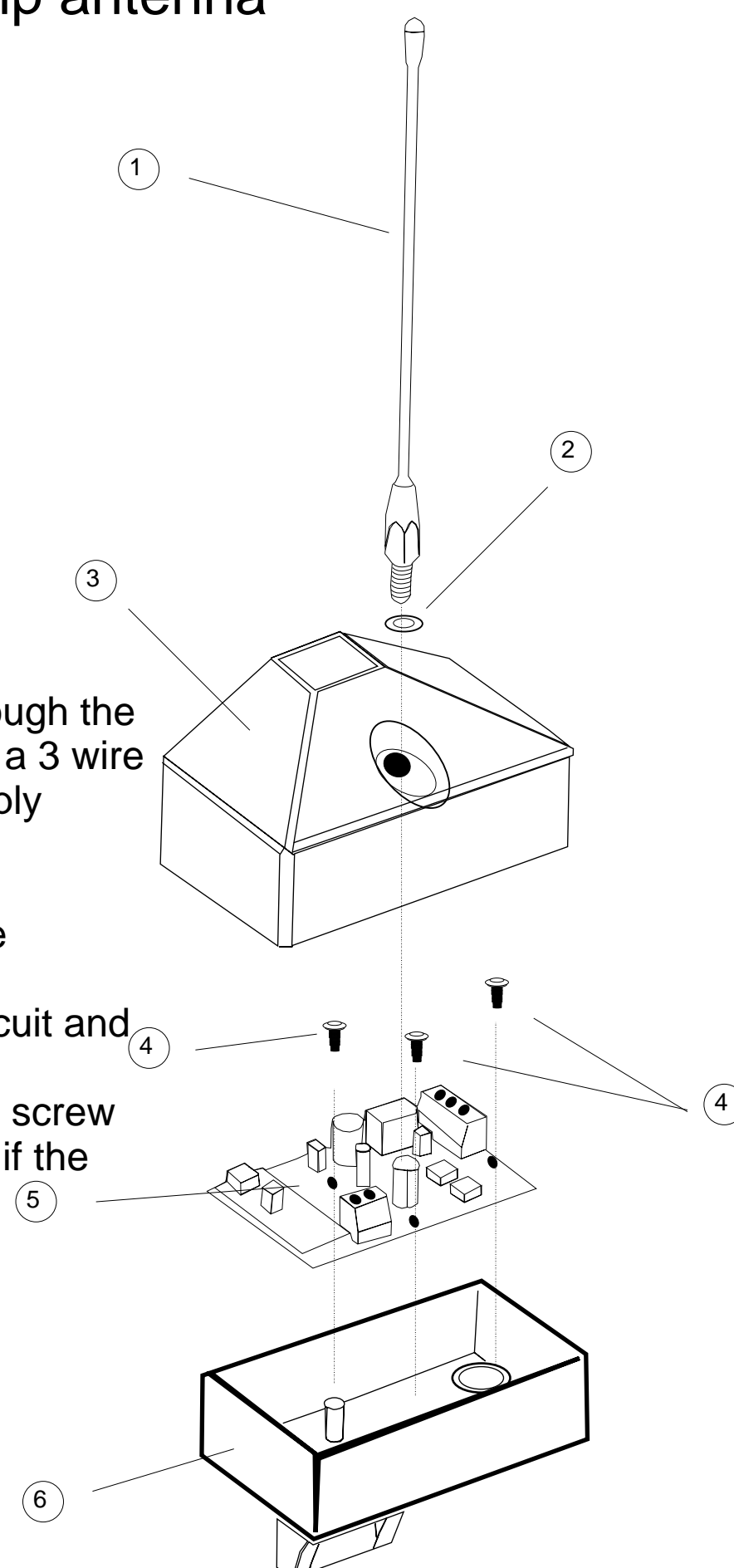SEA(UK)LTD

ASSEMBLING THE RECEIVER

1. Antenna
2. Weather gasket
3. Upper box
4. Fixing screws fro electronic board
5. Electric board
6. Fixing base for wall

To assemble follow these instructions:

a) Fix the base to the wall.
b) Insert the 3 or 4 wire cable in the base through the rubber sheath. If the connection is made with a 3 wire cable, wire link terminal 3 with the power supply negative (terminal 2).
c) Make the connection to the terminal board.
d) Fix the electronic board to the base with the provided screws.
e) Screw the antenna temporally, feed the circuit and follow the TX programming procedure.
f) Remove the antenna, fix the upper box and screw the antenna again checking the right position if the gasket in its proper seat.

ENVIRONMENT
Please dispose of all product and circuit packing material responsibly so not to spoil the environment.
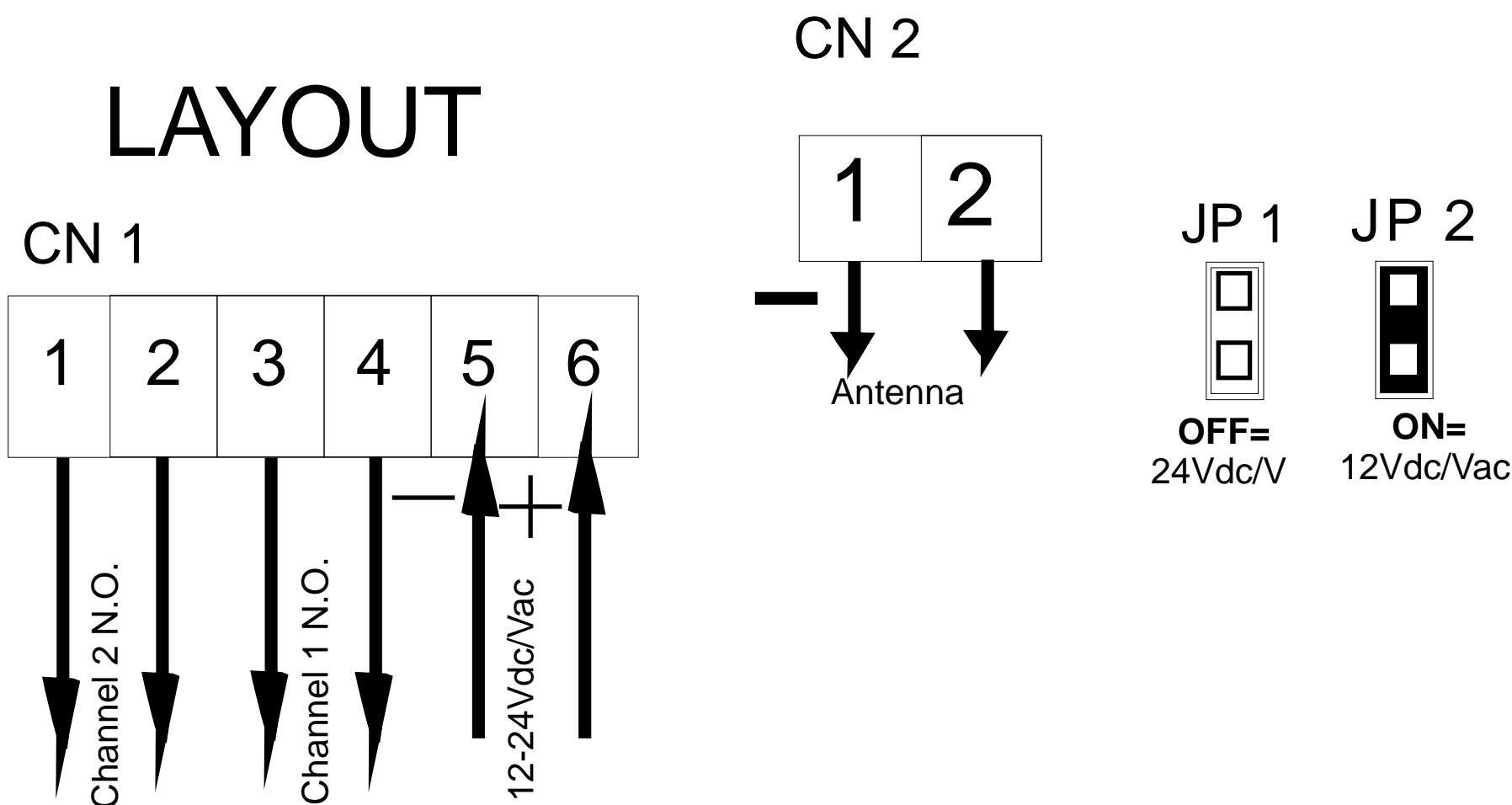
Double Channel Receiver with box - 50 users

INSTALLATION AND MAINTENANCE MANUAL

LAYOUT

CN 2

CN 1

1 2 3 4 5 6

Channel 2 N.O.

Channel 1 N.O.

12-24Vdc/Vac

1 2

Antenna

JP 1
OFF=
24Vdc/V

JP 2
ON=
12Vdc/Vac

INTENDED USE

The reception module at 433.920 Mhz and/or 868.300 Mhz had been projected to be exclusively used as a receiver of digital data at a frequency of 433.920 Mhz and/or 868.300 Mhz sent from a remote control built by SEA which transmits at the same frequency and is being interfaced must only be used as a generator of commands to be sent to a SEA control unit for doors, gates and leaves and must be power supplied at security tension.

RC MODULE WORKING MODE DESCRIPTION

Learning of a radio control
- When programming Channel 1 close jumper "JP1"
- When programming Channel 2 close jumper "JP2"

-Close jumpers (ch1/ch2) one at time corresponding to exit/exits you want to use.
-Push SW 2 for at least ½ second, Led will start flashing.
-Activate the button on the transmitter that you want to program.
- The led will emit a long flash and turn off to show that memo procedure is ok.
-Check immediately the memorisation by giving one impulse.
-Check that if no compatible remote control is being activated within 18 seconds from the entrance in self-learning mode (flashing led), a safety timer will bring the circuit back into normal working mode (the led is off).
Notice: during the self-learning phase of the radio control, place yourself to a distance of approximately 2 metres from the radio receiver.

N.B. THE BISTABLE EXIT MODES WILL BE SET ON BY LEAVING THE JUMPER CLOSED AFTER THE LEARNING PROCEDURE IS OVER

Remote control erase
- Take all the jumpers corresponding to exit/exits off
.- Activate learning SW 2.
- Activate the button/channel of the remote control to be erases.
- the led will turn off to confirm that erase is ok.
Whole memory erase
- Push the erase button Sw1 for one second at least.
- After release the erase must start.
- The led will light during the erase procedure and will turn off soon after the procedure is over.

Long distance learning
- Take the remote control(master) already learnt by the unit.
- Push the remote learning button on the remote control
- Led must flash.
- Push the button on the remote control that you want to learn.
- Led must stop flashing after a longer flash.
- Check that all the programming done on the master is being copied on the new remote control.

MAINTENANCE AND DECOMMISSIONING

The out of service and/or decommissioning at 433.920 Mhz and.or 868.300 Mhz within the Countries of the European Community.

LIMIT OF GUARANTEE

The receiving module at 433.920 Mhz and/or 868.300 Mhz is guaranteed for a period of 24months. The guarantee period starts from the date stamp printed on the product. The warranty purpose, tampered with or modified in any way. The validity of this guarantee only extends to the original purchaser.

CONFORMITIES

The receiving module 23120165 - 23120166 at 433.920 Mhz and 23120320 at 868.300 Mhz conforms to the following:
• 1999/5/CE (R&TTE) Regulation
• ETS 300 683, ETS 300 220
• EN 600065

STORING

STORING TEMPERATURES			
T min	T max	Humidity min	Humidity max
-40°C	+80°C	5% no condensing	90% no condensing

When being transported this product must be properly packaged and handled with care.

SEA reserves the right to make changes or modifications to its products and/or manual without obligation to give and notice
----