



Telocation Systems Ltd.
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Customer Support
CL-01.005

October, 2001

Important!

For proper, reliable functioning of the RMU, read the installation instructions carefully.

Before installing the RMU, pay attention to those basic rules:

- Before installing the RMU in the vehicle, check that the correct voltage is supplied.
- Do not install the RMU close to heat sources (heating system outlets).
- Install the RMU in watertight locations ONLY.
- Do not install the RMU in the engine compartment.
- Do not install the RMU behind the fuse box.
- Insulate all loose cables.
- Secure the RMU with screws or strips.
- Install the RMU in the passenger compartment or in the trunk.
- Conceal the RMU, including cables, when installing.

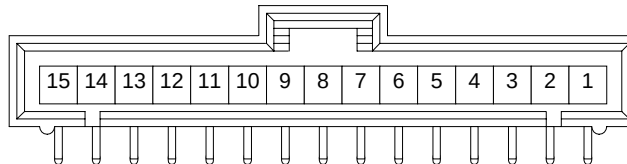
Instructions concerning human exposure to radio frequency electromagnetic fields.

To comply with FCC, Section 1.1307(b) (1) for human exposure to radio frequency of electromagnetic fields, implement the following instructions:

1. The installation position of the antenna shall provide a separation distance of at least 20 cm. between the general public, the user, and the equipment antenna.
2. The equipment user should keep a distance of at least 20 cm. from the equipment antenna.

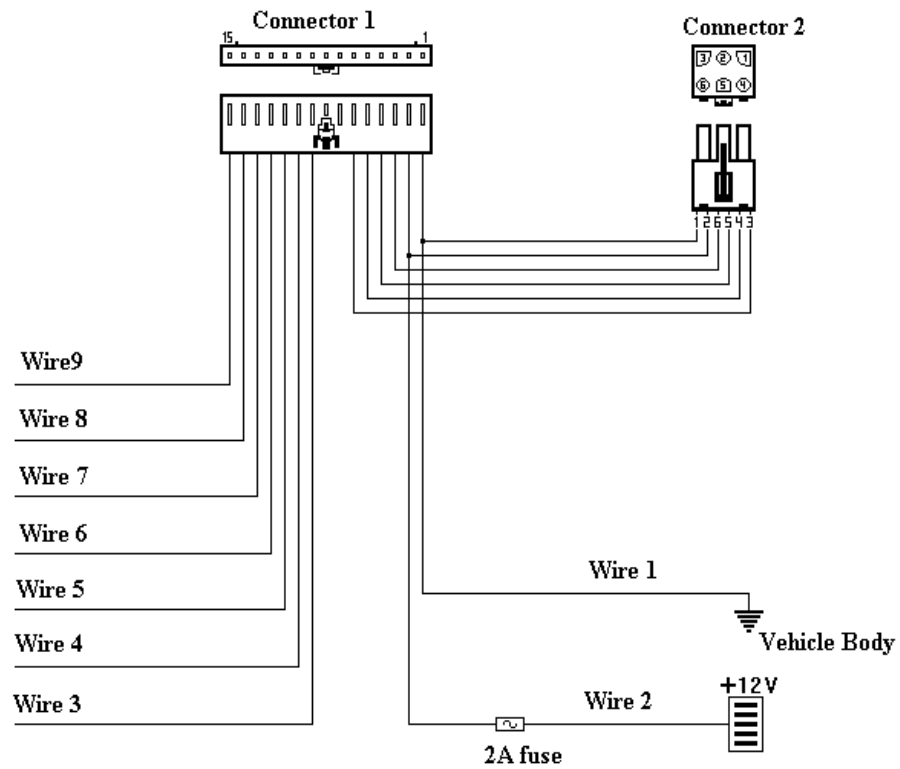
Wiring Connections:

The RMU (Ver. 1.7), uses “Molex” type connector (Serial number 70553-0014), as following:



<u>Pin 1</u>	:	Ground
<u>Pin 2</u>	:	+12v
<u>Pin 3</u>	:	+Rx Data
<u>Pin 4</u>	:	- Rx Data
<u>Pin 5</u>	:	+Tx Data
<u>Pin 6</u>	:	- Tx Data
<u>Pin 7</u>	:	Output “B”
<u>Pin 8</u>	:	LED
<u>Pin 9</u>	:	Output “A”
<u>Pin 10</u>	:	Output “C”
<u>Pin 11</u>	:	Input “A”
<u>Pin 12</u>	:	Input “B”
<u>Pin 13</u>	:	Input “C”
<u>Pin 14</u>	:	Input “D”
<u>Pin 15</u>	:	Output “Gnd.”

Wiring Diagram:





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Connecting the Wires - Connector 1

ELECTRICAL INTERFACE

Pin	Name	Description
1	Ground.	Power Supply. Vcc Range (8-17 Volt)
2	Vcc (+ 12V).	
3	RS 422 (Rx+)	Serial Port.
4	RS 422 (Rx-)	
5	RS 422 (Tx+)	
6	RS 422 (Tx-)	
7	OUTPUT B	OFF = 0 Volt. ON = 12 Volt / 130 mAmp
8	OUTPUT LED	12 mAmp max
9	OUTPUT A	OFF = 0 Volt. ON = 12 Volt / 130 mAmp
10	OUTPUT C	OFF = 0 Volt. ON = 12 Volt / 130 mAmp.
11	INPUT A	Default: Active High. (>3.0 Volt)
12	INPUT B	Default: Active Low. (< 0.6 Volt)
13	INPUT C	Default: Active Low. (< 0.6 Volt)
14	INPUT D	Default: Active Low. (< 0.6 Volt)
15	OUTPUT GND.	Internal Loop.

Wire 1: Connect Wire 1 permanently to the vehicle body. The connection site must be protected against corrosion.

Wire 2: Connect Wire 2 to a permanent positive connection (+) in the fuse box.

Wire 3: See Option 2.

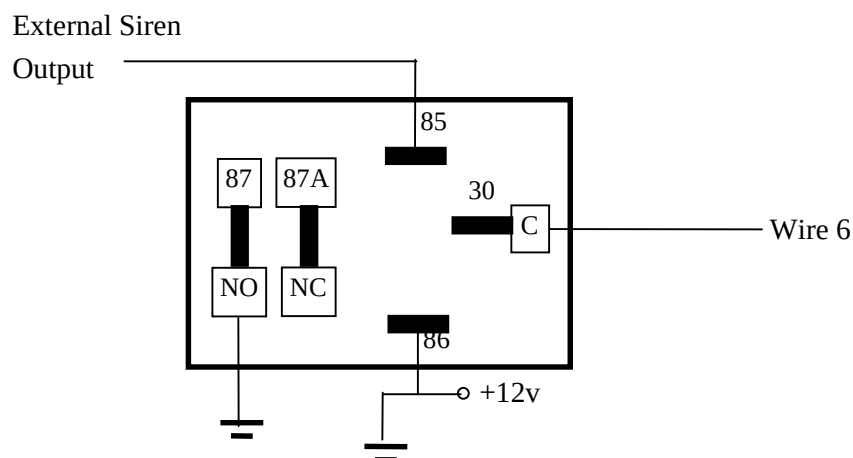
Wire 4: See Option 1.

Wire 5: See Option 1.

Wire 6: Optional connection to alarm system.

Outlet A. Connect through relay to the output of an additional alarm system siren.

Connect according to the diagram:

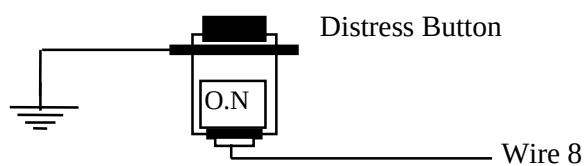


Note: The connection numbers correspond to the BOSCH 12V 40A relay.

Wire 7: Outlet B. Do not connect. Insulate outlet B.

Wire 8: Optional connection for distress button.

Outlet C. Can be use as an distress button outlet.



Wire 9: Do not connect. Insulate Wire 9.



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Installing Antennas

Important!

Proper installation of the antennas is vital for the reliable functioning of the RMU.

Very important:

- Do not shorten or lengthen the antenna cables.
- Do not position the antennas near the vehicle computer or any other transmitter.
- Do not combine antennas.
- Position antennas at least 10 cm away from metal.
- Antennas can be installed horizontally or vertically. The cable can be rolled up.
- Antennas can be fixed or held in position using adhesive tape or strips.

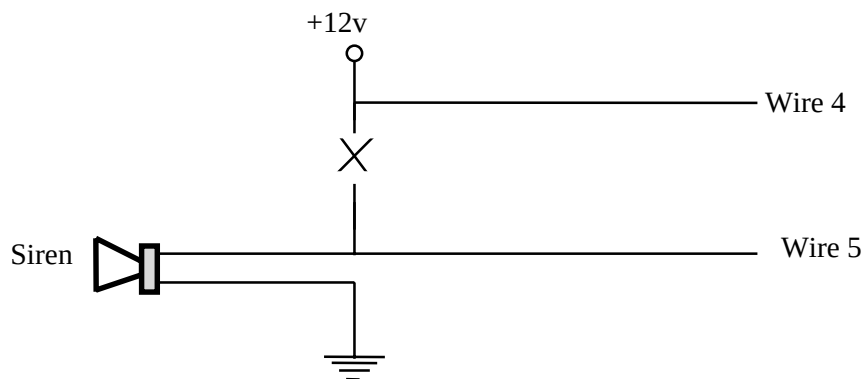
Optional Antenna Sites :

Front dash board:	Inside the upper section of the dash board. The antennas are positioned above the window line.
Rear dash board:	Between the shelf and the metal surface. Position as far away as possible from the metal. Mount above the window line.
On the vehicle ceiling:	The RMU can be installed in trucks or cars that have a space (at least 10 cm) between the ceiling covering and the ceiling. Antennas can be distributed.

Options

Option 1:

Wires 4 and 5: Split alarms. No connection to an additional siren. Wires 4 can serve and 5 as current detector (up to maximum 1.5 Amp.).

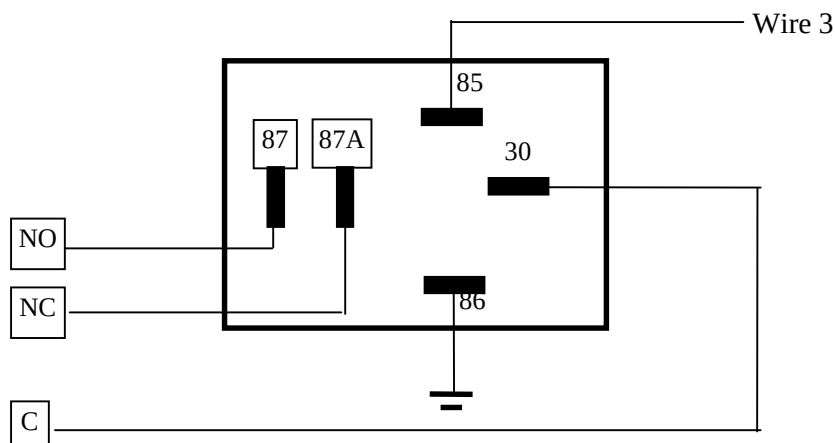


Option 2:

Wire 3: Positive (+) output (up to 130mA) to an external relay.

The output (Wire 3) can be used to operate an external relay. The relay serves to connect/disconnect an accessory in the vehicle, e.g. indicators, additional siren, etc.

The relay is controlled by the control center.





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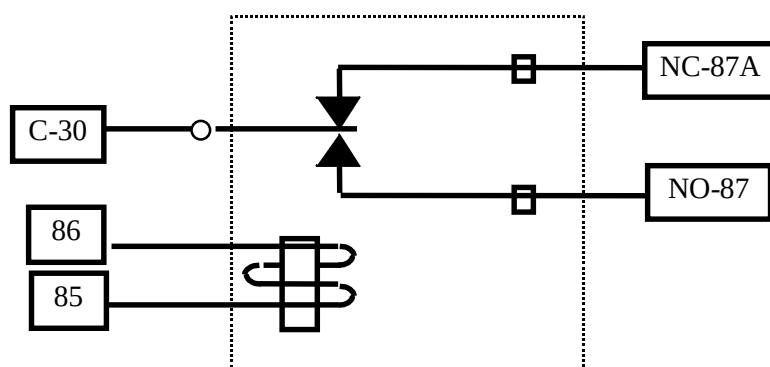
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The RMU kit includes:



Electrical diagram - BOSCH 12V 40A relay



Attention !
wiring and unit is not to be exposed to oil
and/or grease such as in engine compartment.