

# r2p<sup>®</sup> Tracking

*...visions on the move™*



# ProBox 3100 Installation

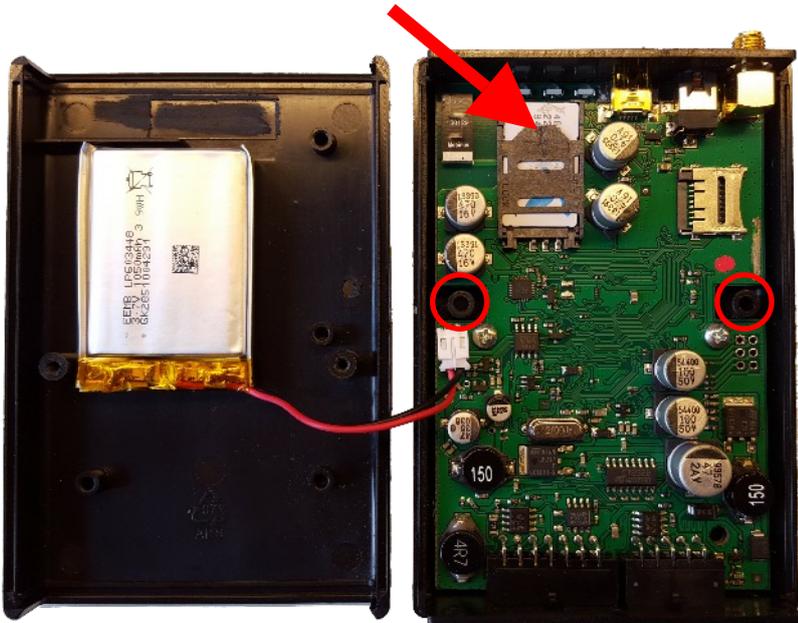
Revision: 030918

<http://www.r2ptracking.dk>



# PROBOX 3100

The ProBox sends the tracking data by means of GMS/GPRS. A SIM card is required. Make sure PIN code has been turned off. You may have to insert the SIM card into a mobile phone to turn off PIN code.

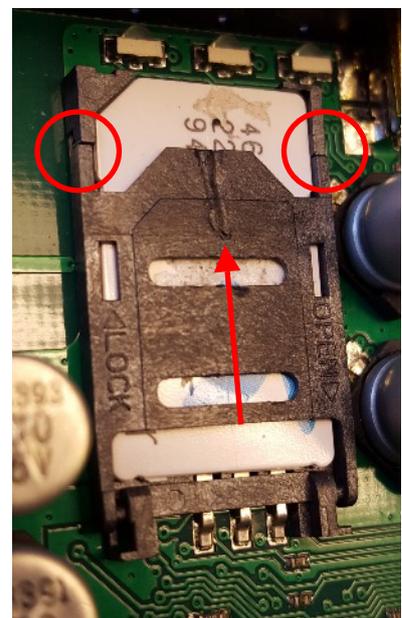
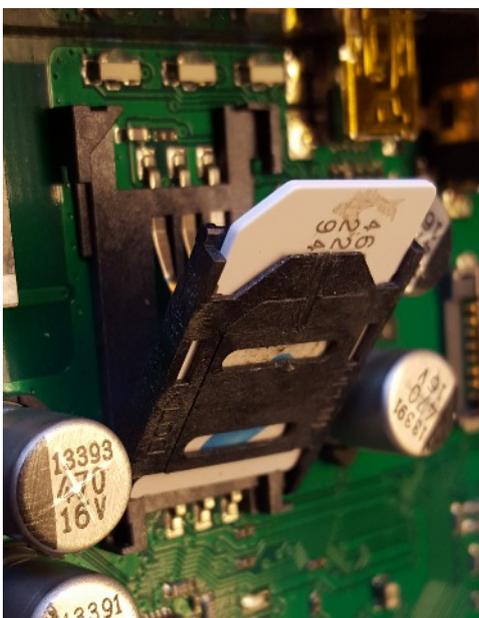


Use a Philips screwdriver to remove two screws in the back and remove the screws before opening the cabinet.

When SIM card is inserted, the cabinet is assembled and screws are secured firmly.

The card is inserted like shown below. Make sure the card fits properly into the socket when socket is closed.

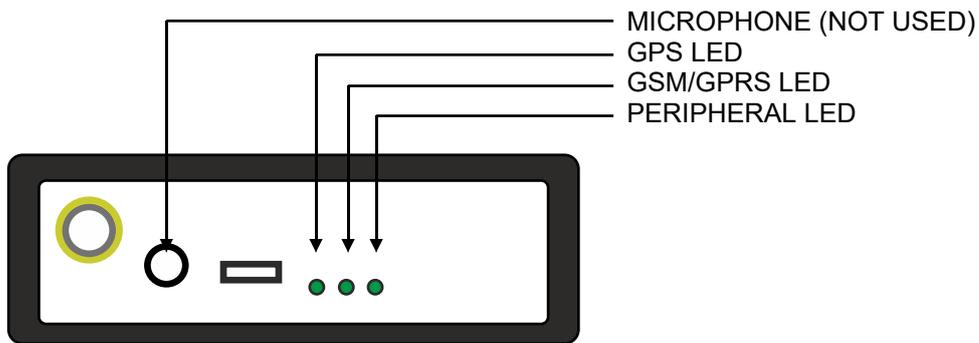
Make sure that the card is locked properly in both sites when you push the lid up.





# PROBOX 3100

## LED's



FRONT VIEW

### GPS LED

Two (2) blinks pr second	= GPS NOT OK
One (1) blink pr second	= GPS OK

### GSM/GPRS LED

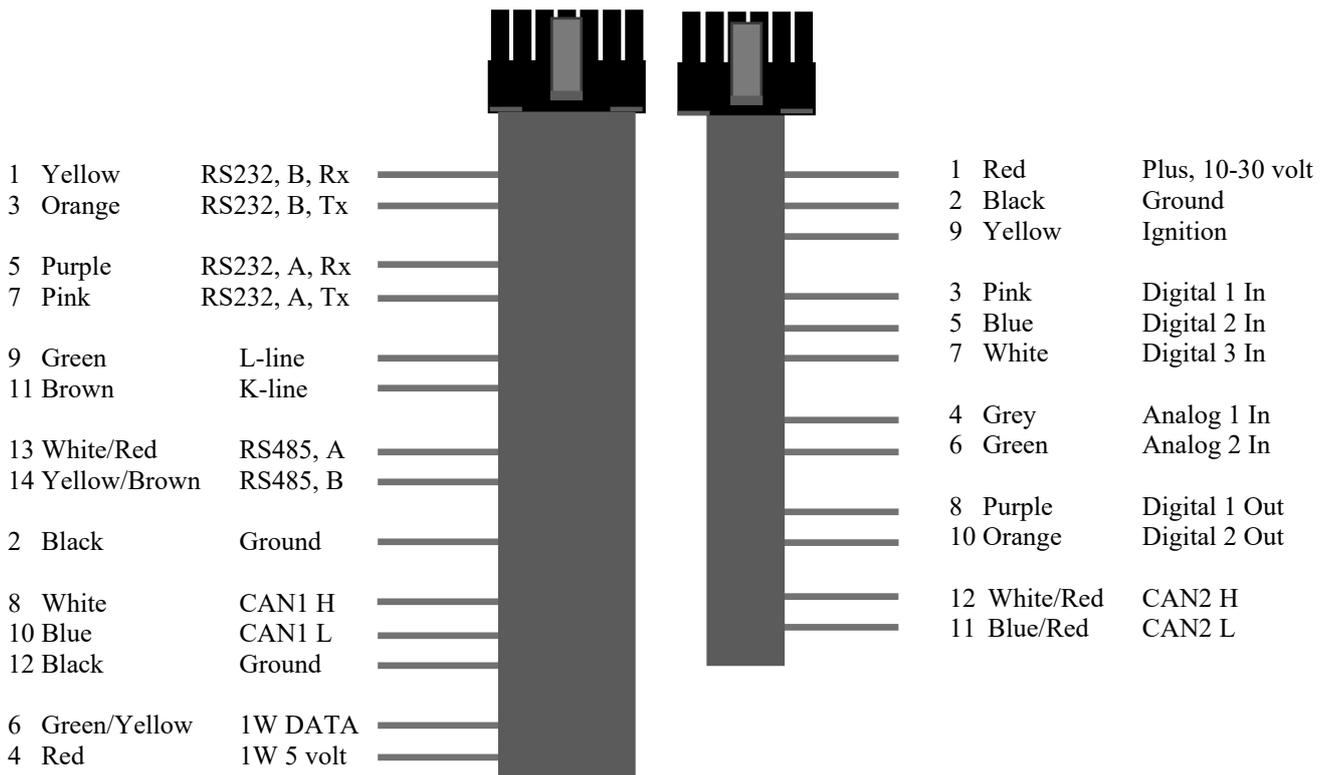
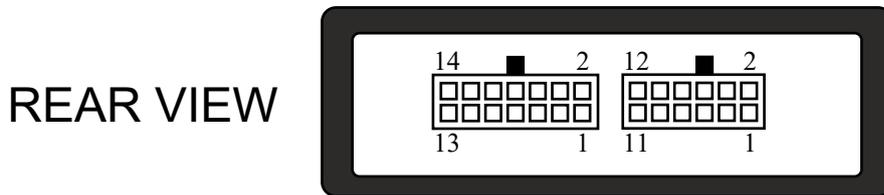
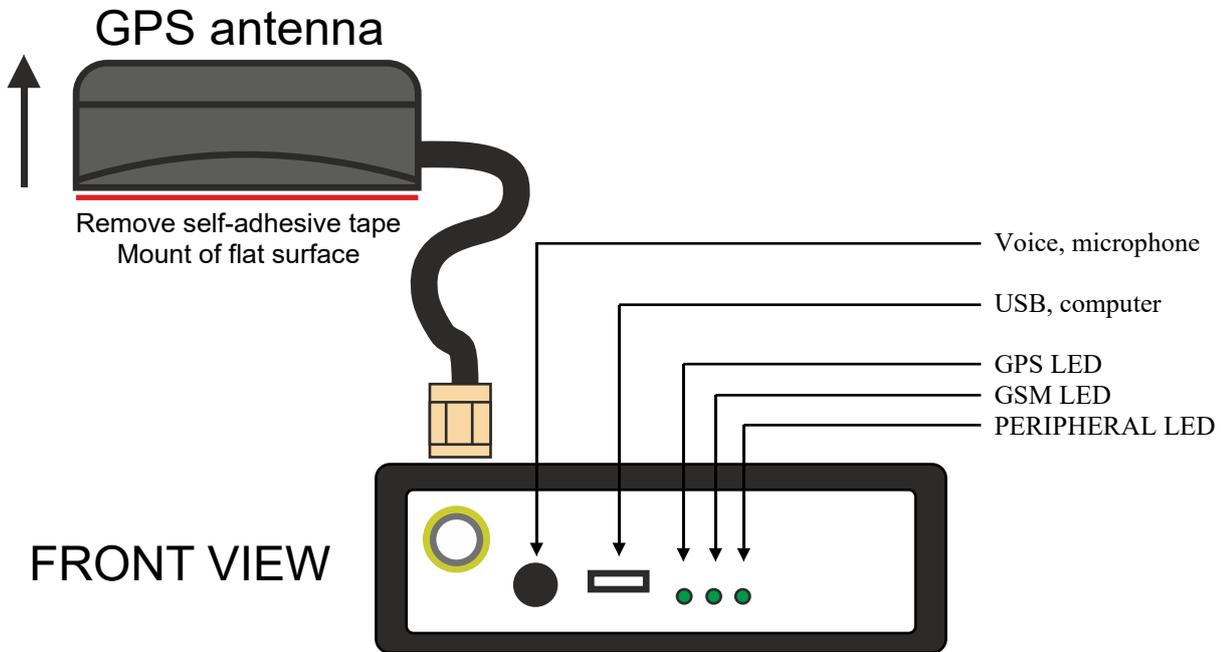
Four (4) blinks pr second	= GSM NOT OK
One (1) blink pr second	= GSM OK, But NO GPRS
One (1) blink every 4 seconds	= GSM AND GPRS OK
ON	= Sending data by GPRS

### PERIPHERAL LED

Zero (0) blinks every 5 seconds	= No peripheral is connected
One (1) blink every 5 seconds	= 1 pcs peripheral is connected
Two (2) blinks every 5 seconds	= 2 pcs peripheral is connected
Three (3) blinks every 5 seconds	= 3 pcs peripheral is connected



# PROBOX 3100





# PROBOX 3100

Start by finding a good location for the hardware.  
Installation-wires can be extended if required.

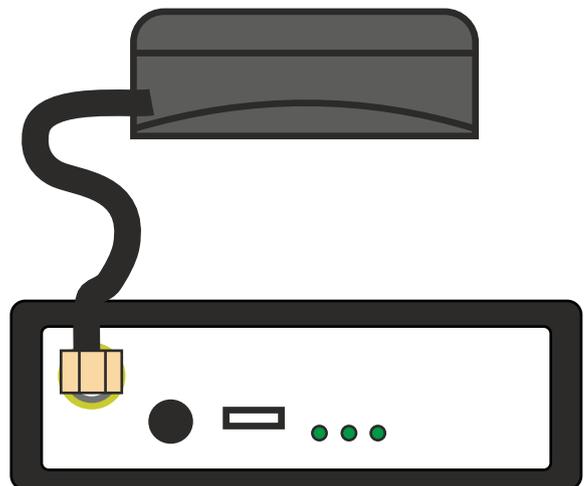


A typical installation spot is under the dashboard but behind or over the glove compartment.

From here you can often run the wires to the back of the radio where you find the power and ignition (switched 12 volt).

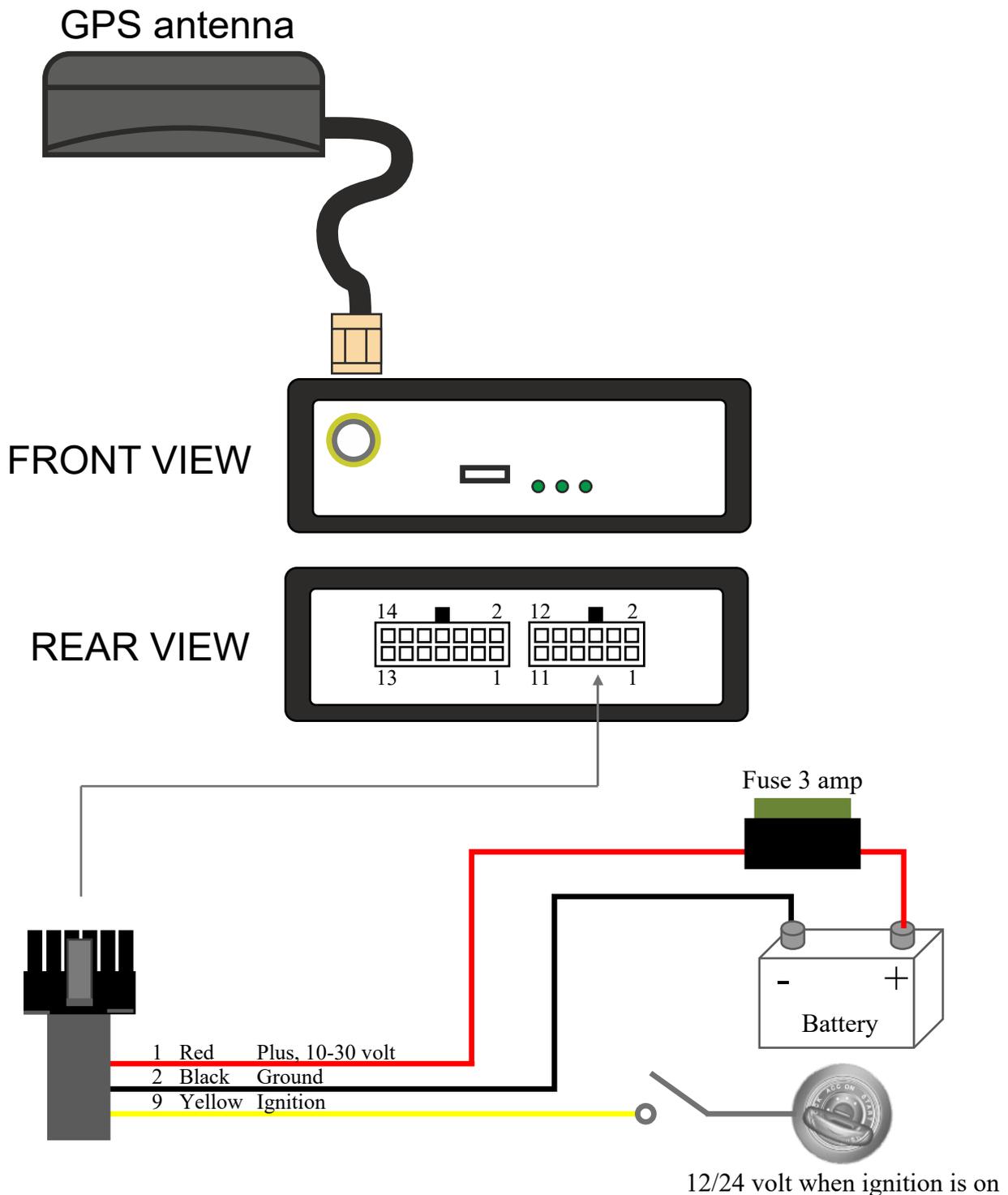
Always mount the antenna as shown, pointing up towards the satellites.

Beware of airbags.



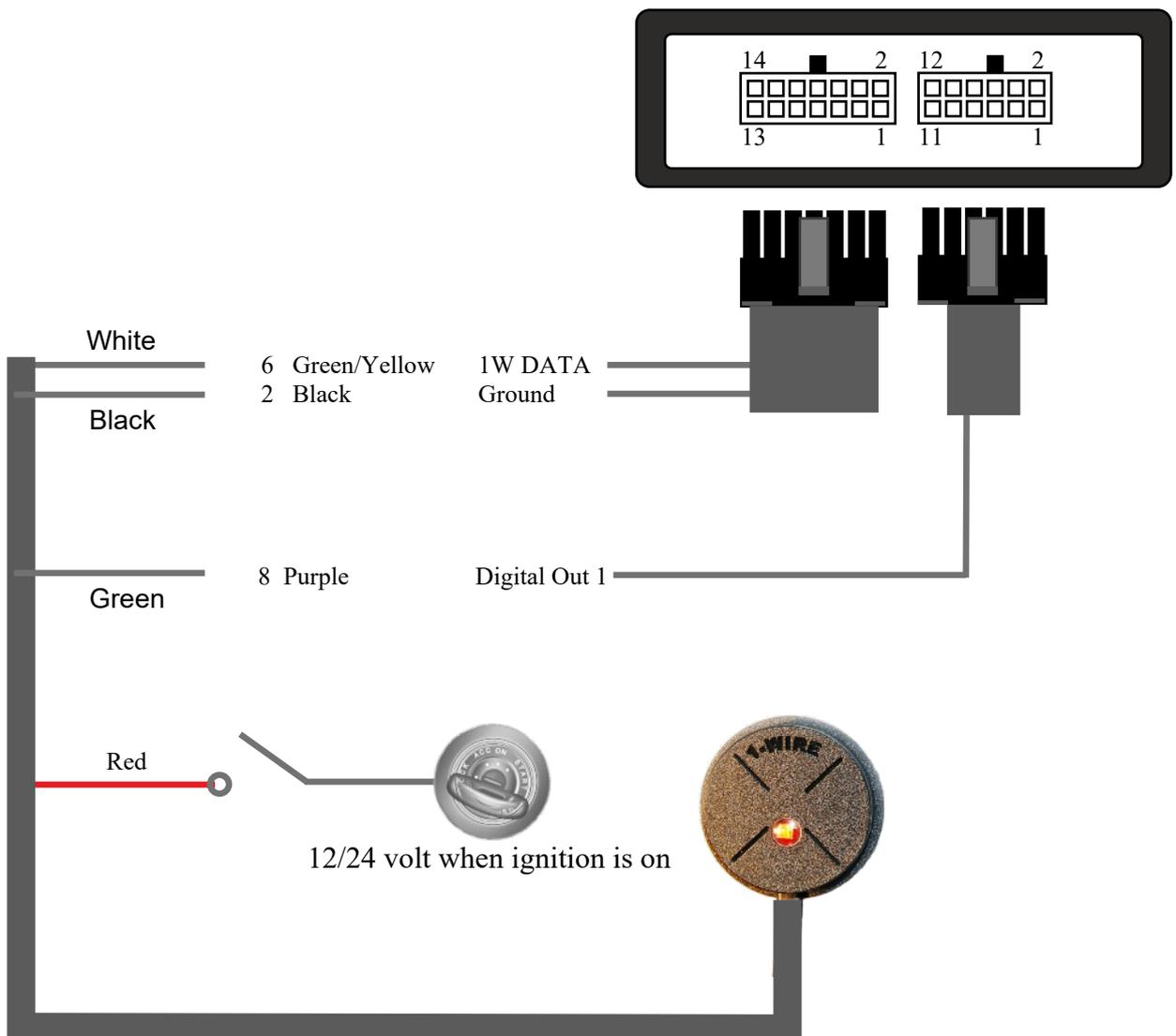


# Minimum wiring for tracking: Ground, 12 volt and ignition.



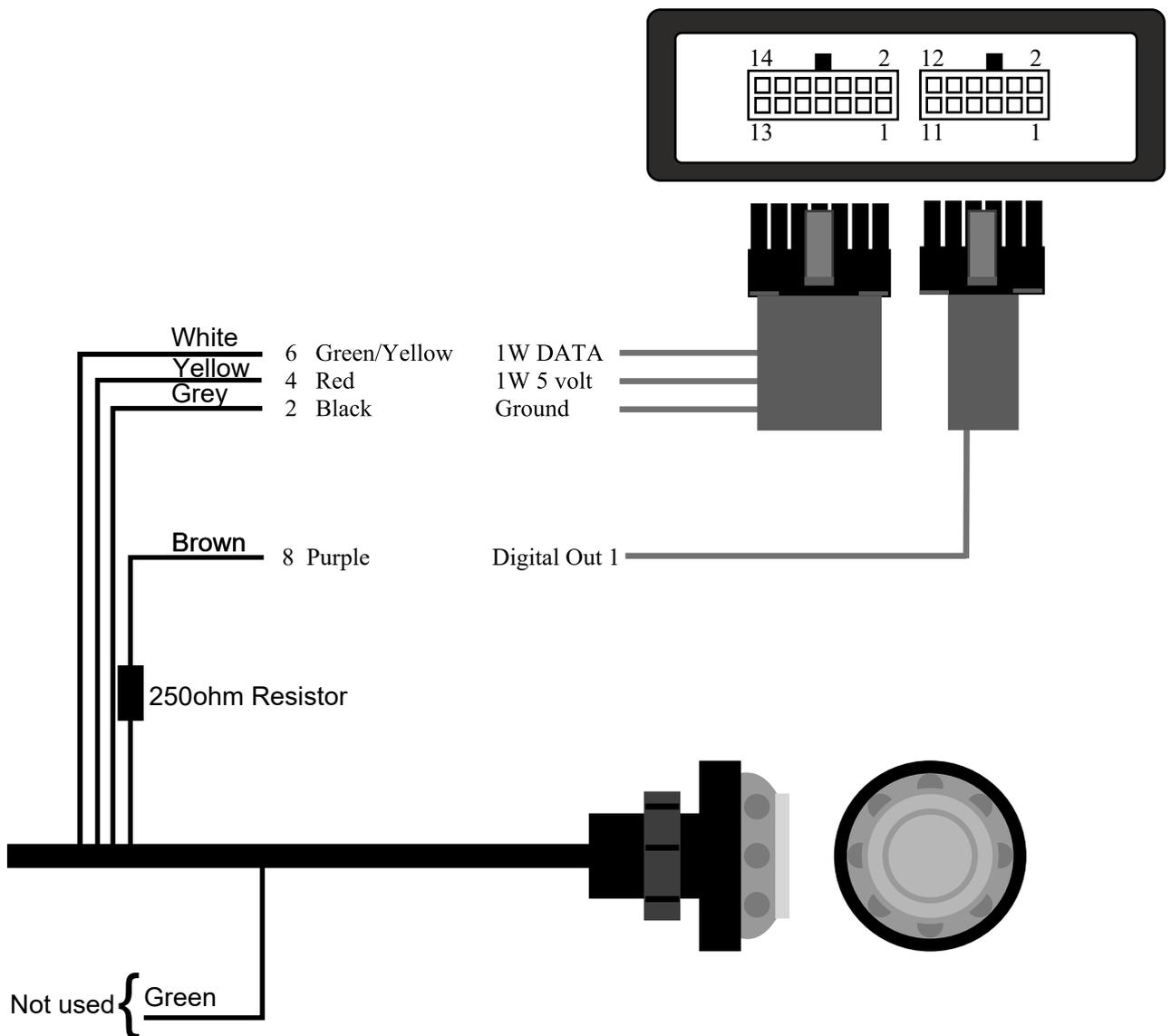


# 1-wire connection Driver RFID login





# 1-wire connection Driver login





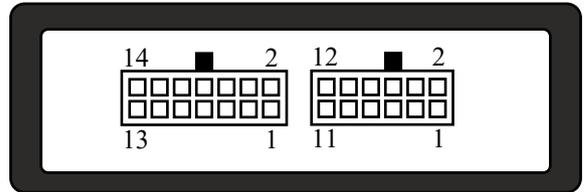
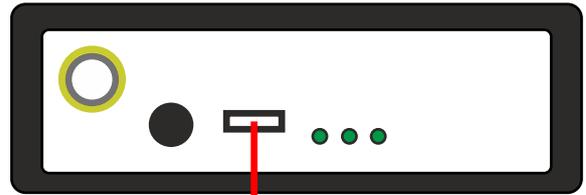
PROBOX 3100

# Computer USB connection



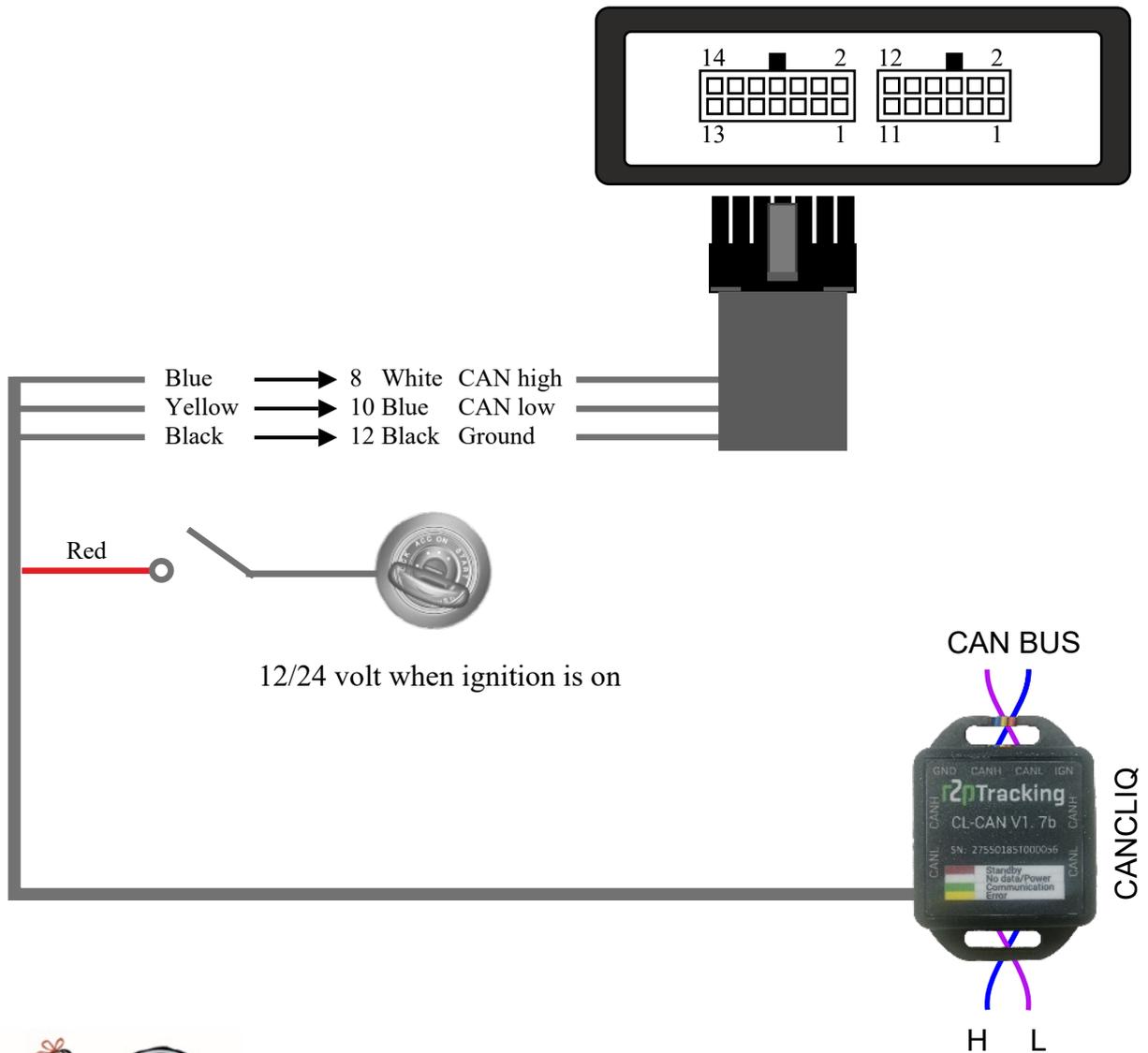
USB

Software updates / configurator





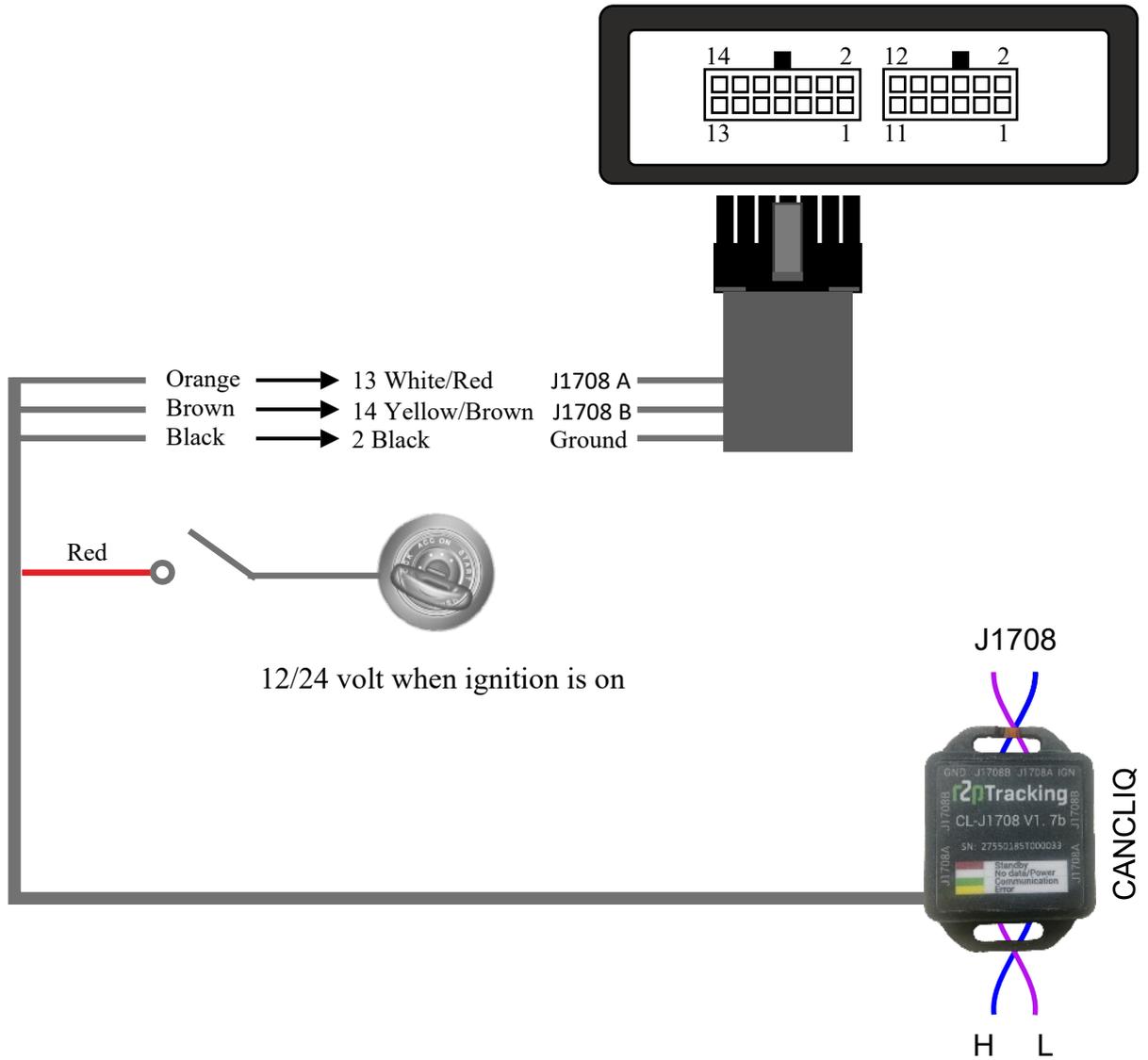
# CANCLIQ connection



See our manual  
**CAN BUS DETECTION**  
 if you do not know how to detect  
 CAN HIGH and CAN LOW.

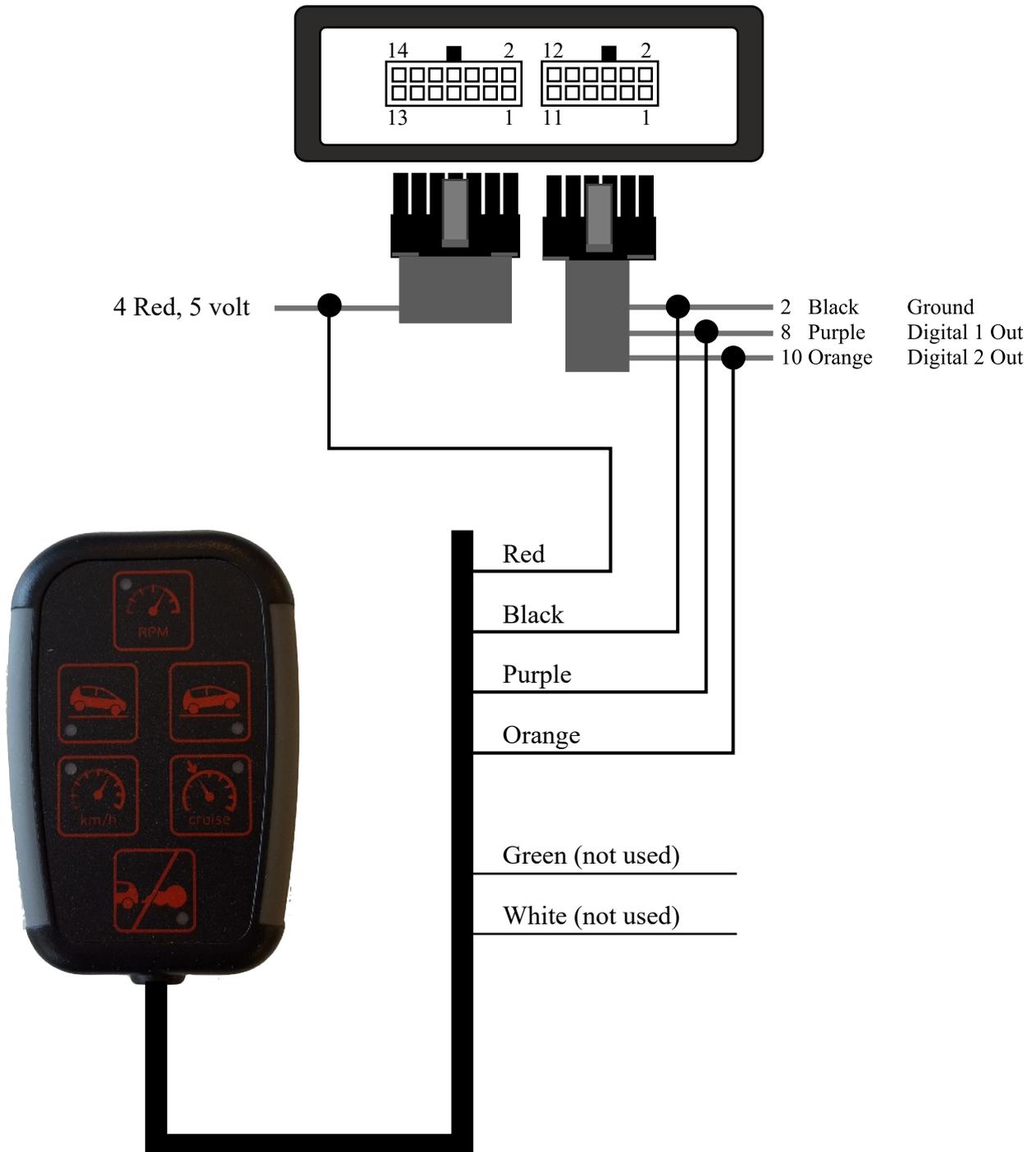


# J1708 connection



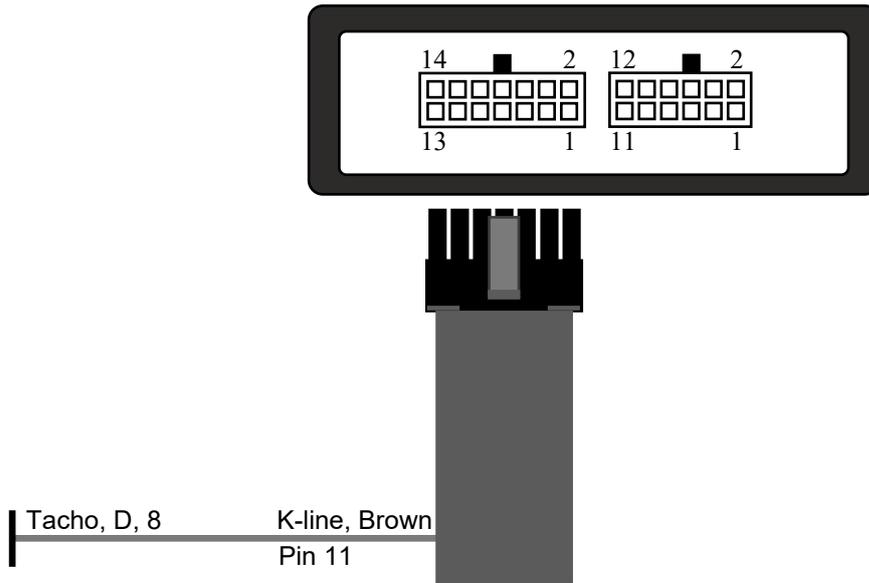


# Driver panel connections

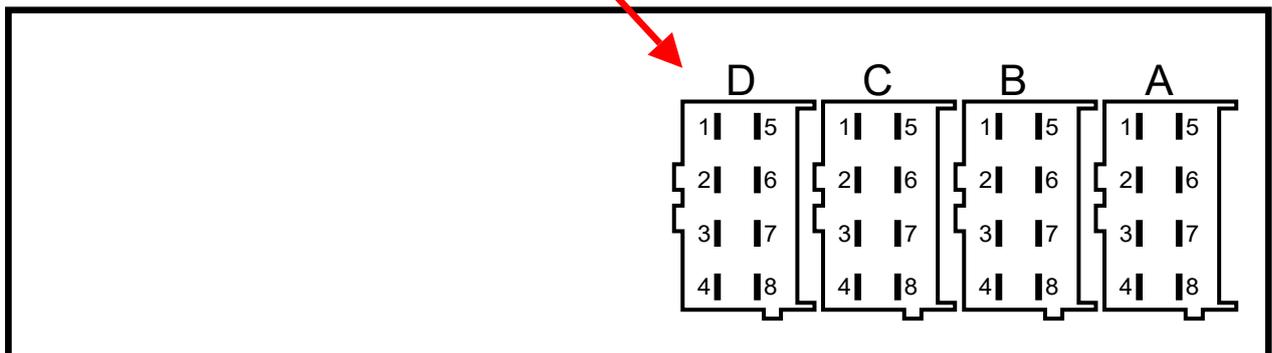




# Tacho Driver Login

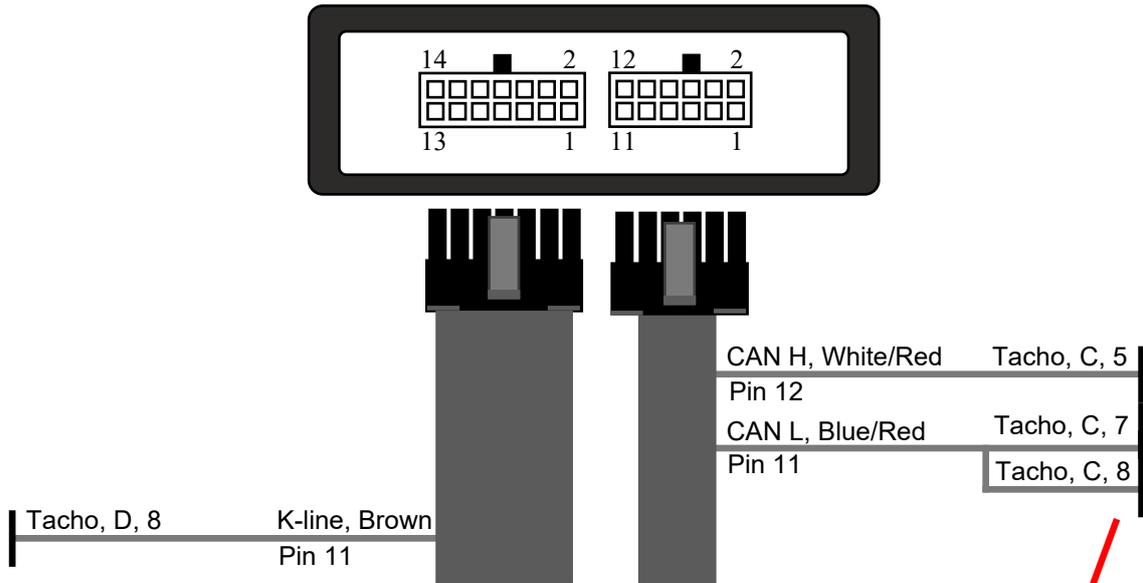


TACHO, REAR VIEW

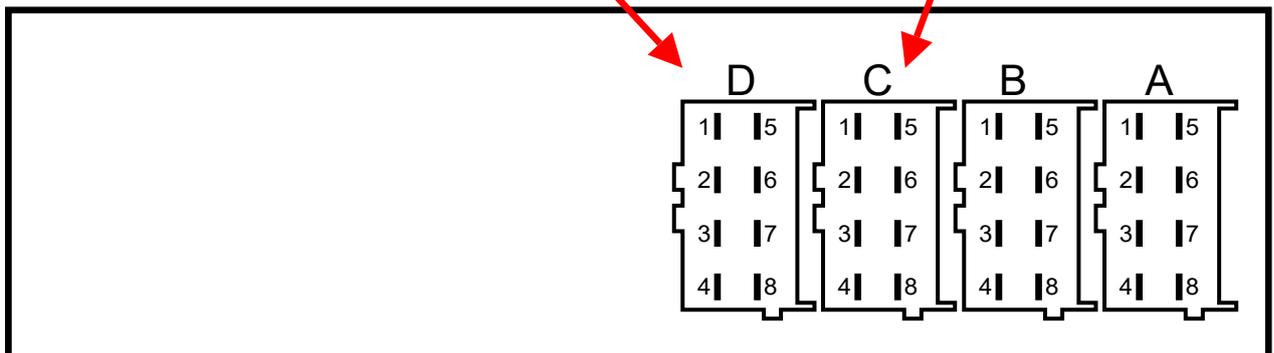




# TACHO REMOTE DOWNLOAD

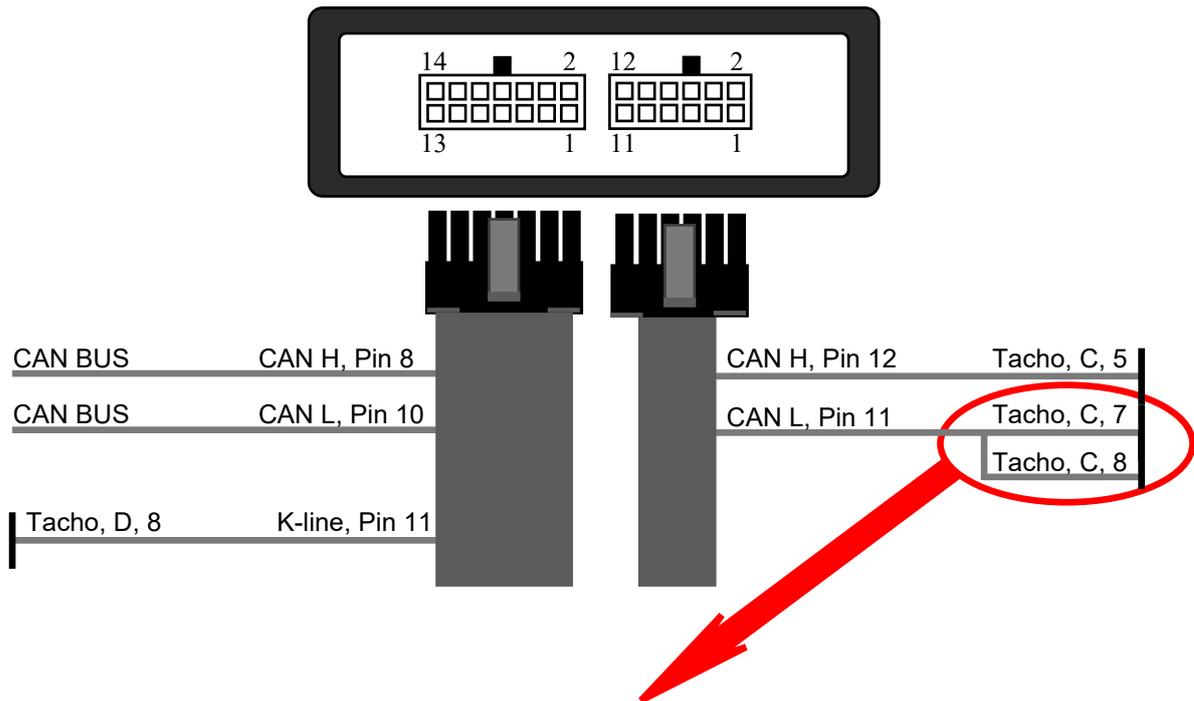


TACHO, REAR VIEW





# TACHO REMOTE DOWNLOAD

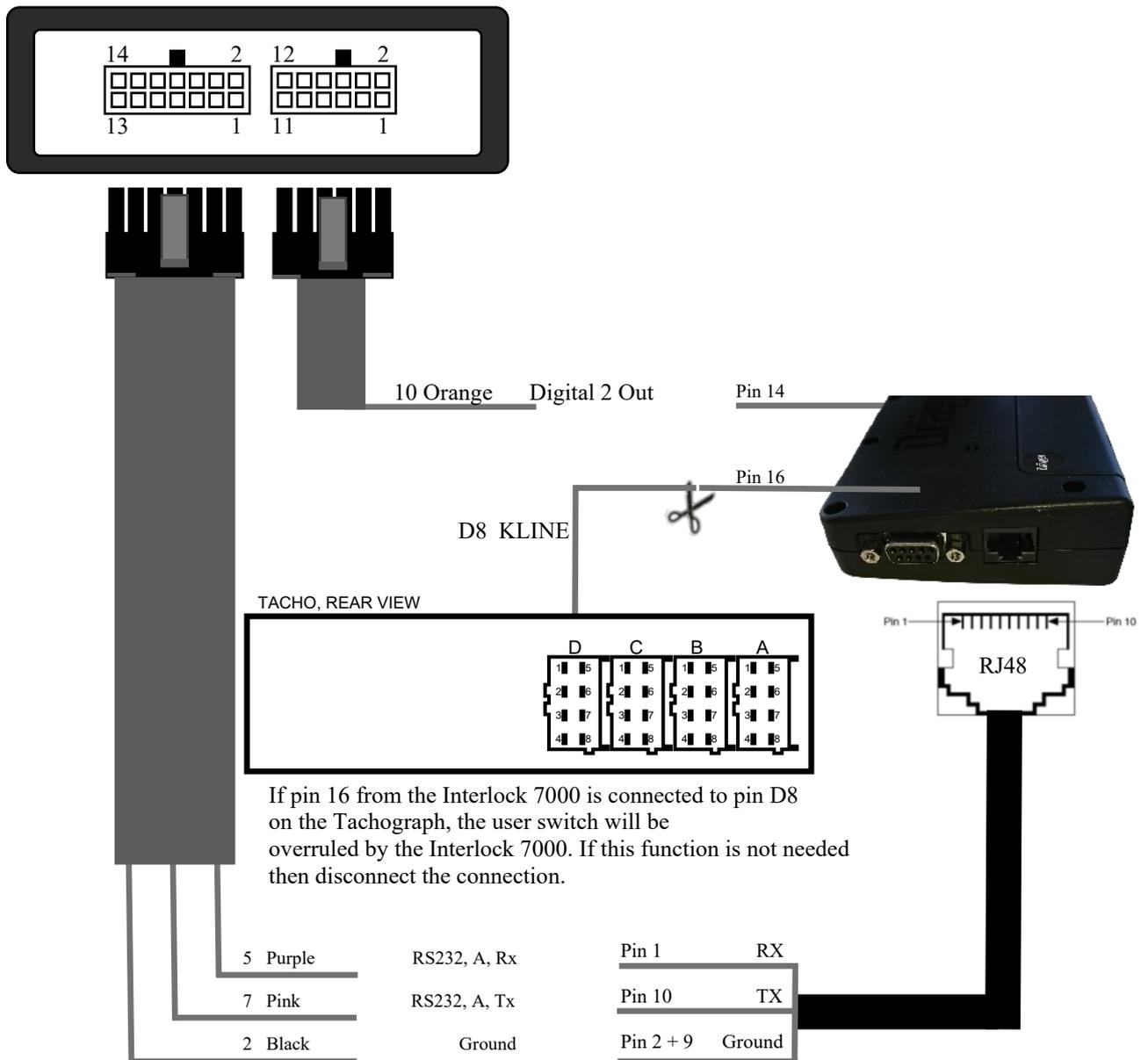


Interconnections between pins **C7** and C8 is Usually required. To check whether you need To use this interconnections follow these steps:

1. Vehicle IGNITION must be off.
2. C-connector is free
3. Set your multimeter to measure Ohms
4. Measure the resistance between pins C5 and C7
  - A) If resistance value is approximately equal to 120  $\Omega$ , then the interconnection between pin C7 and C8 is not required. In this case, connect CAN High wire to C5 pin and CAN Low wire to C7 pin.
  - B) If measured resistance is shown to be infinitely high, then the interconnection between the pins C7 and C8 is required. Connect Can High wire to C5 pin and Can Low wire to C7 and C8.



# Draeger Interlock 7000



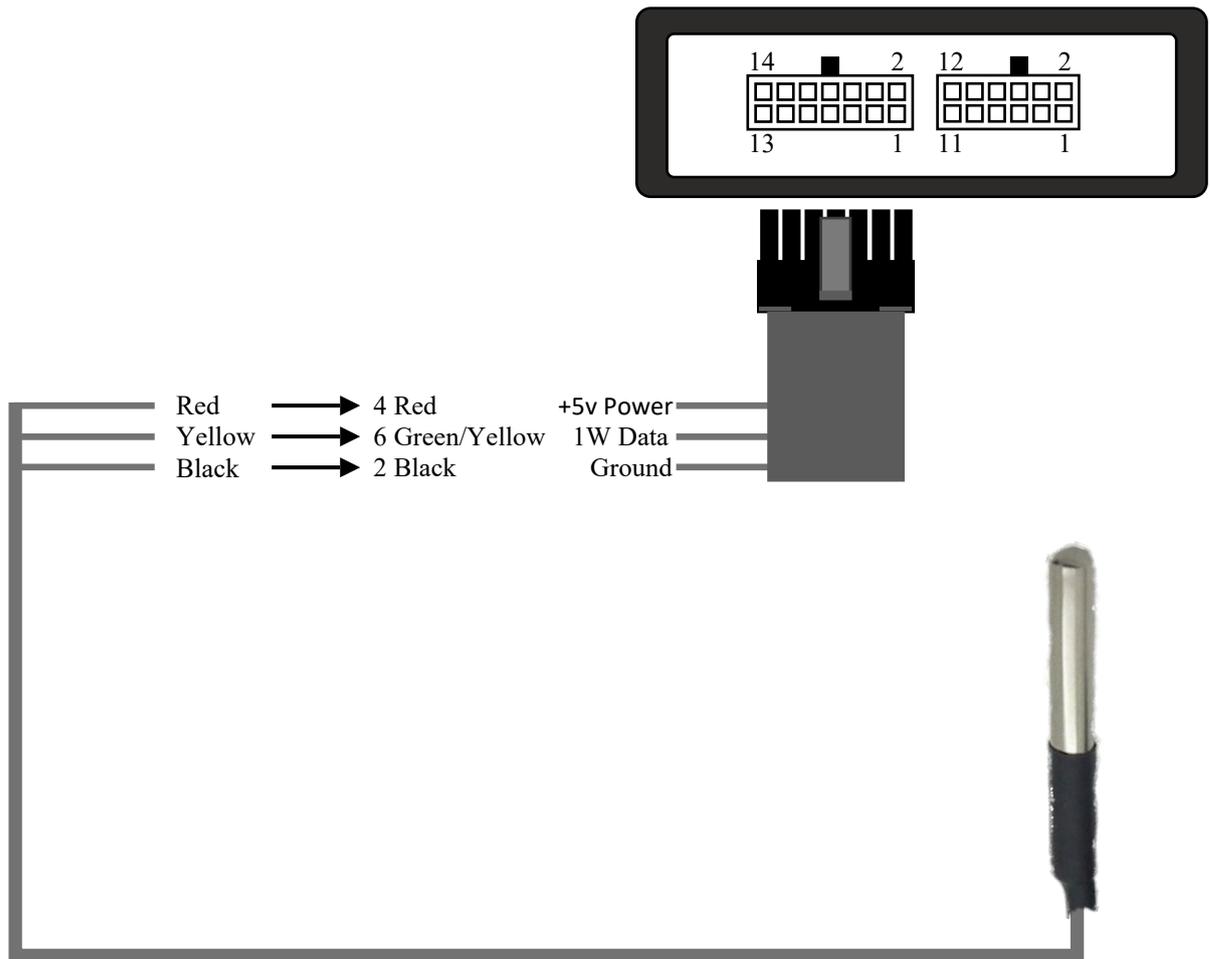
Installation information about Tacho Driver login see page 12  
 Installation information about RFID login see page 6  
 Installation information about Ibutton login see page 7

**IMPORTANT:**  
 REMEMBER TO CONFIGURE THE DRAGER INTERLOCK 7000 SO THE RS232 OUTPUT IS ACTIVE



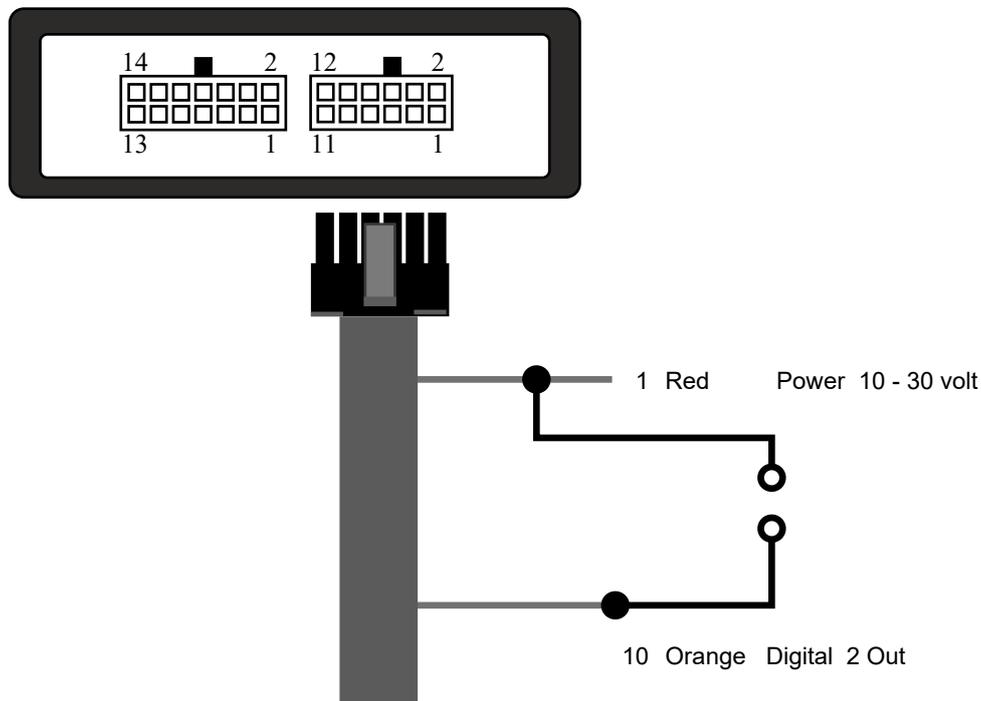
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# Temperature Sensor





# GSM Jamming Detection



Digital output 2 is enabled when Jamming is detected. The digital output 2 is an open collector output and have a maximum rating of 300 mA.

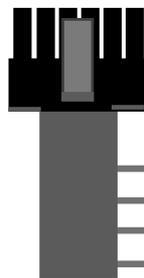
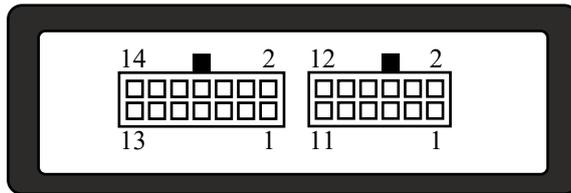
When the digital output is enabled there will be Ground on the output wire.

If more than 300 mA is needed please use a relay.

If Driver Panel is connected use White wire from the panel. Driver Panel connections can be found on page 12.



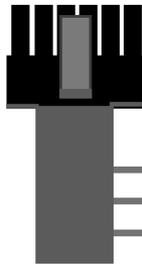
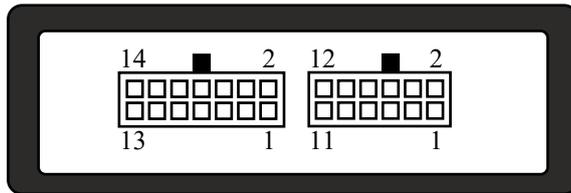
# Digital inputs



3	Pink	Digital 1 In
5	Blue	Digital 2 In
7	White	Digital 3 In
2	Black	Ground



# Analog inputs

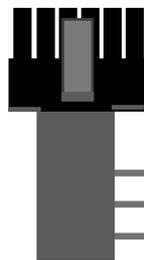
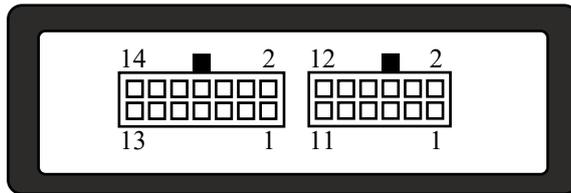


- 4 Grey Analog 1 In
- 6 Green Analog 2 In
- 2 Black Ground



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# Digital outputs



8	Purple	Digital 1 Out
10	Orange	Digital 2 Out
2	Black	Ground