


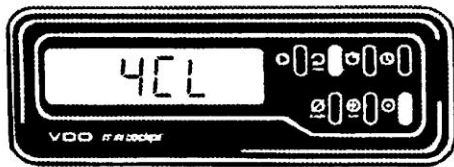


# MINICOCKPIT



## OPERATION AND SETTING INSTRUCTIONS

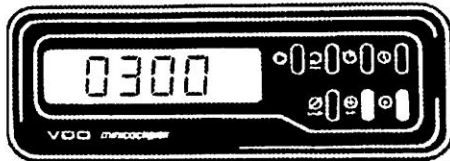
1.  Reset Button
2.  RPM
3.  Stop Watch
4.  Clock
5.  Average Speed
6.  Trip Distance
7.  Setting




Setting:

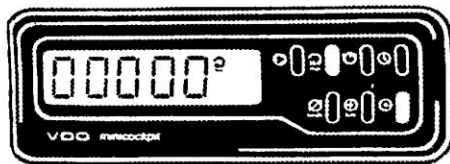
The instrument must be set to the number of cylinders of the engine (4, 5 or 6).

Push the engine speed key  and enter the number of cylinders, confirm with the set key . The display changes to distance mode, and displays 0300, the last zero flashing.




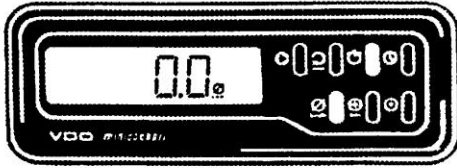
Enter the ratio "W" (for mechanical speedometers or "K" (for electronic speedometers). Generally this parameter is indicated on the speedometer dial or the speedometer casing. If this is not the case, have the ratio determined by a tachograph service station, or ask the vehicle manufacturer. Enter the ratio "W" directly. The "K" value of electronic speedometers must be divided by 6, and the result rounded off to the nearest whole unit (no decimals) entered.

Setting: Push the KM key  and enter last digit, confirm with the set key. enter the following digits in the same way. when all digits have been entered and confirmed, push the KM key. The display changes to engine speed mode, and displays 000.



Setting the engine speed alarm (engine speed limit about 15000 min<sup>-1</sup> max):

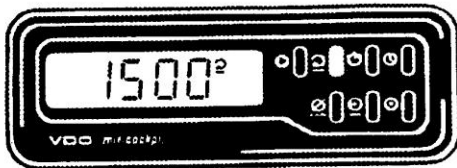
Push key during 2 seconds. The display changes from 000 to 00000, the centre zero flashing. Enter the hundred digit with the engine speed key  and confirm with the set key. Enter the following digits in the same way and confirm, then press the set key. If no overspeed alarm is desired, the respective zeros will have to be confirmed. The engine entries are completed the display changes to engine speed.



### Average speed :




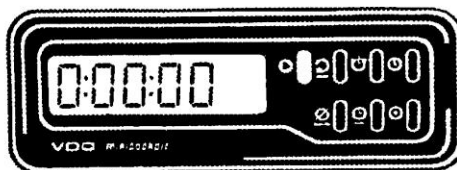
Push average speed key. The display is combined with the stop watch function, the average speed being related to the trip distance. The speed average is recalculated after each stopping and restarting (without resetting) of the stop watch, the trip distances are added. Reset by pressing the set key during two seconds.



### Engine speed :



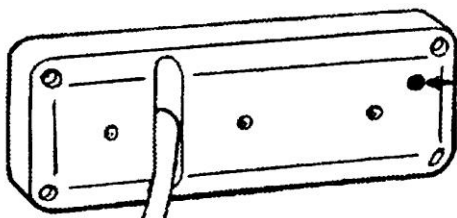
The engine speed display is called with the  key when the engine is running. The speed symbol starts flashing, and an acoustic alarm is given three times when the applicable engine speed limit (if previously inputted) is exceeded. Flashing symbol and acoustic alarm are independent of the current mode at that time.



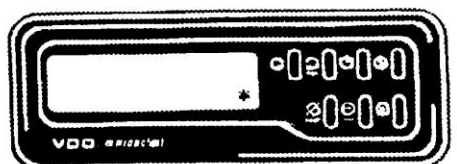
### Reset key :



This key resets stop watch, trip distance, leg of trip, and average speed to zero. When the reset key has been pressed the display changes to engine speed mode.



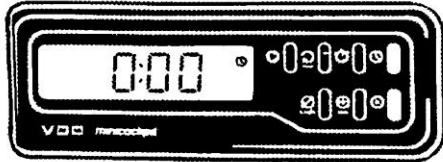
If as a result of low battery voltage the display gives garbled information, disconnect the supply to the unit momentarily. This can be done either by pushing the reset button or disconnecting the positive connection or by removing the earth lead from the battery. You can then reprogram the unit.




### Frost warning :

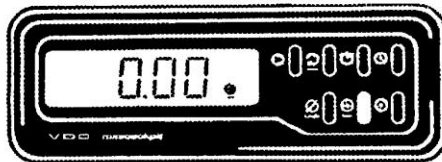


Three warning sounds are given when the temperature drops below +3°C, the frost warning symbol starts flashing. It continues flashing until the temperature rises above +3°C. Flashing symbol and acoustic alarm are independent of the current mode at that time.



#### Setting the clock (24 h):

Push clock key  then press set key during 2 seconds. The hours digits start flashing. Enter hours with the clock key, and confirm with the set key. Minutes are entered in the same way.

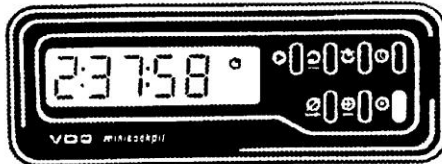


#### Trip distance :


The total distance is displayed if the KM key is pushed once.

#### Resetting the display:

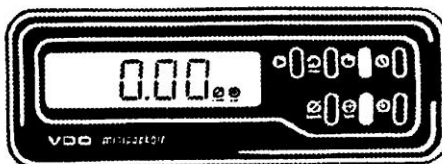
Press set key during 2 seconds. After a distance of 999.99 km the display will automatically roll over to zero and restart counting.



#### Stop watch:

Push stop watch key. 

The stop watch is started and stopped with the set key (max 9:59:59 h), and is reset by pressing the set key during 2 seconds. Time display and trip counter roll over and start counting from zero when the maximum time is exceeded.



#### Legs of trip :

To display the distance covered since the stopwatch was started, press the KM key twice.

To reset the trip counter press the stop watch key, then press the set key during two seconds. The stop watch is reset to zero, the trip distance and the average speed are reset to zero.

# VDO MINICOCKPIT

## INSTALLATION INSTRUCTIONS

### Minicockpit Installation

- a) **Installation with plastic bracket**  
Find a suitable position where the Minicockpit will be visible and accessible to the driver / operator.  
The bracket can be fixed in location with double side adhesive tape or by using a screw.
- b) **Installation without plastic bracket**  
Remove the screw holding the bracket and the two plastic plugs.  
Fix the double side adhesive tape on the Minicockpit back (See Fig. 8), then place the unit in the chosen position, where the surface was pre-cleaned with polish / wax remover.

### Temperature Sensor Installation

The temperature sensor should be installed on the vehicle front, away from the engine heat influence. Eg.: Behind the number plate, or on either side of the bumper bar. (If the Temp Sensor is not used, connect sensor wire to earth )

### Wiring

- Hide the wire loom behind the dashboard.
- Connect wires as shown on **Fig. 15**
- **Colour Coding:**

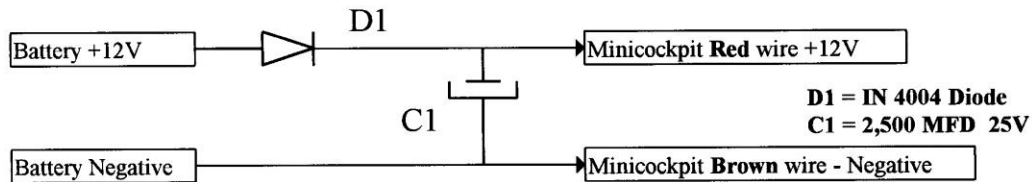
<b>Red</b>	Battery Positive	+12V
<b>Brown</b>	Battery Negative	Earth
<b>Blue</b>	Illumination	+12V
<b>Grey</b>	Speed Signal Input	Signal Generator (Mechanical Speedo) OR Speed sensor (Electronic Speedo)
<b>White</b>	Temperature Sensor	Insulated terminal (Body to earth, see fig 9)
<b>Green</b>	RPM Input Signal	Negative side of Ignition Coil (See Fig. 16)

- The Temp Sensor needs a good earth connection.
- **Mechanical Speedometer:** Vehicles with mechanical speedo, the signal generator terminals must be connected to Grey (Signal) and Brown (Earth) on the Minicockpit.
- **Electronic Speedometer:** In the case of an electronic speedo, check the vehicle Service Manual or contact an Autoelectrician, for the speed sensor wire colour coding.
- **Positive Earth Vehicles:** When connecting the Minicockpit to a positive earth vehicle, connect the **Red** wire to *earth*, **Brown** wire to *Battery Negative*, **Grey** and **Brown** wires to the (Above earth) *Signal generator*, **White** and **Green** wires must be connected to *Brown* (Negative) as Temp sensor and Tacho can **not** be connected.

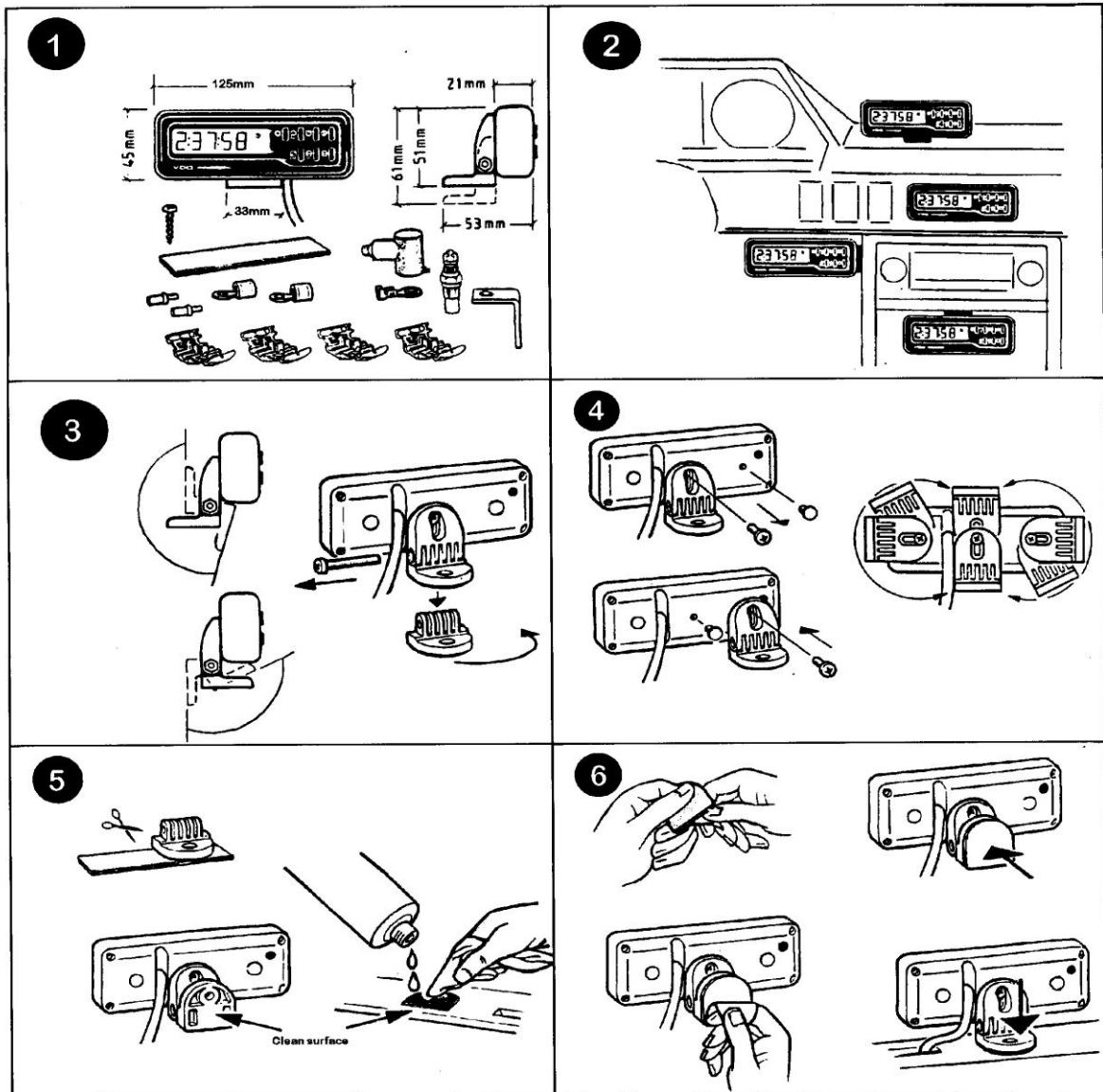
**Trouble Shooting**

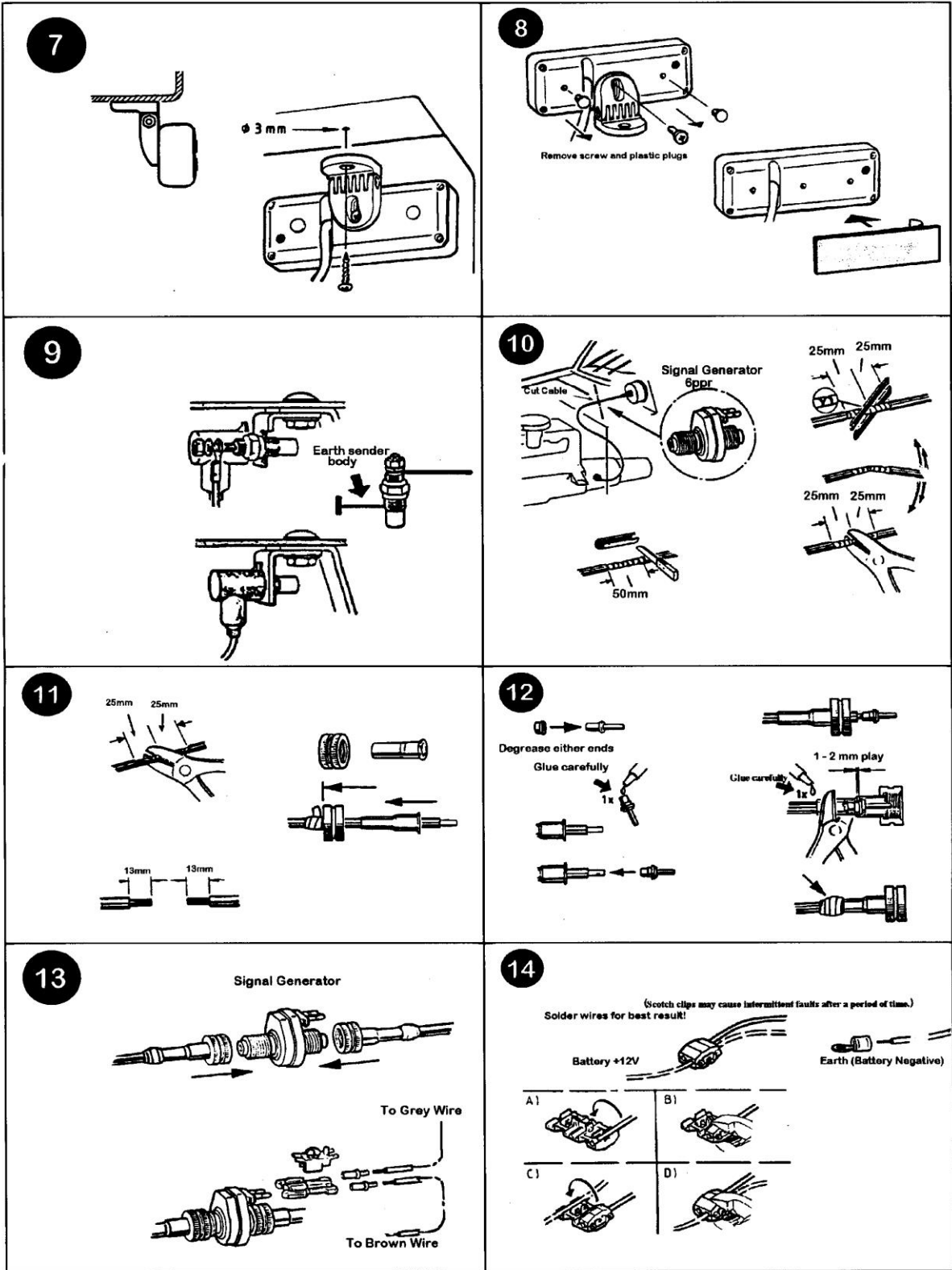
**Battery Voltage Drop**

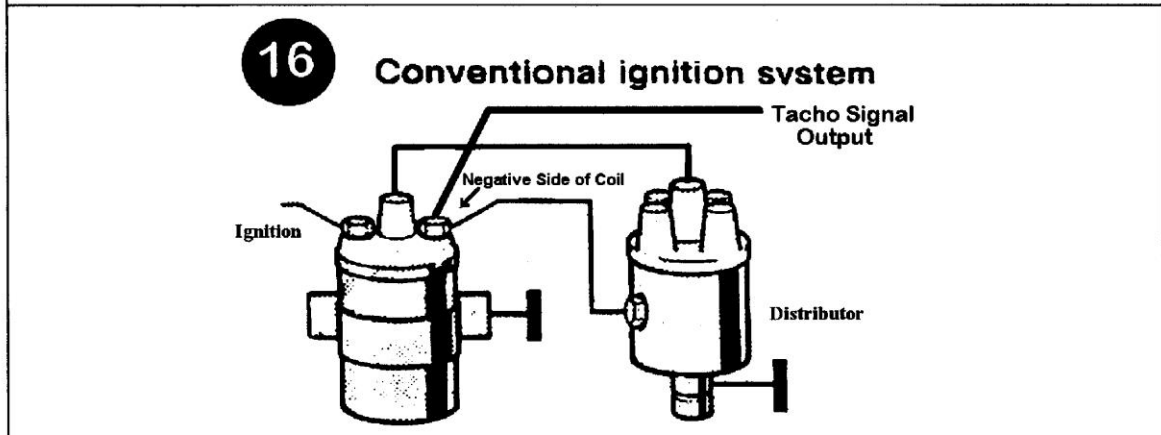
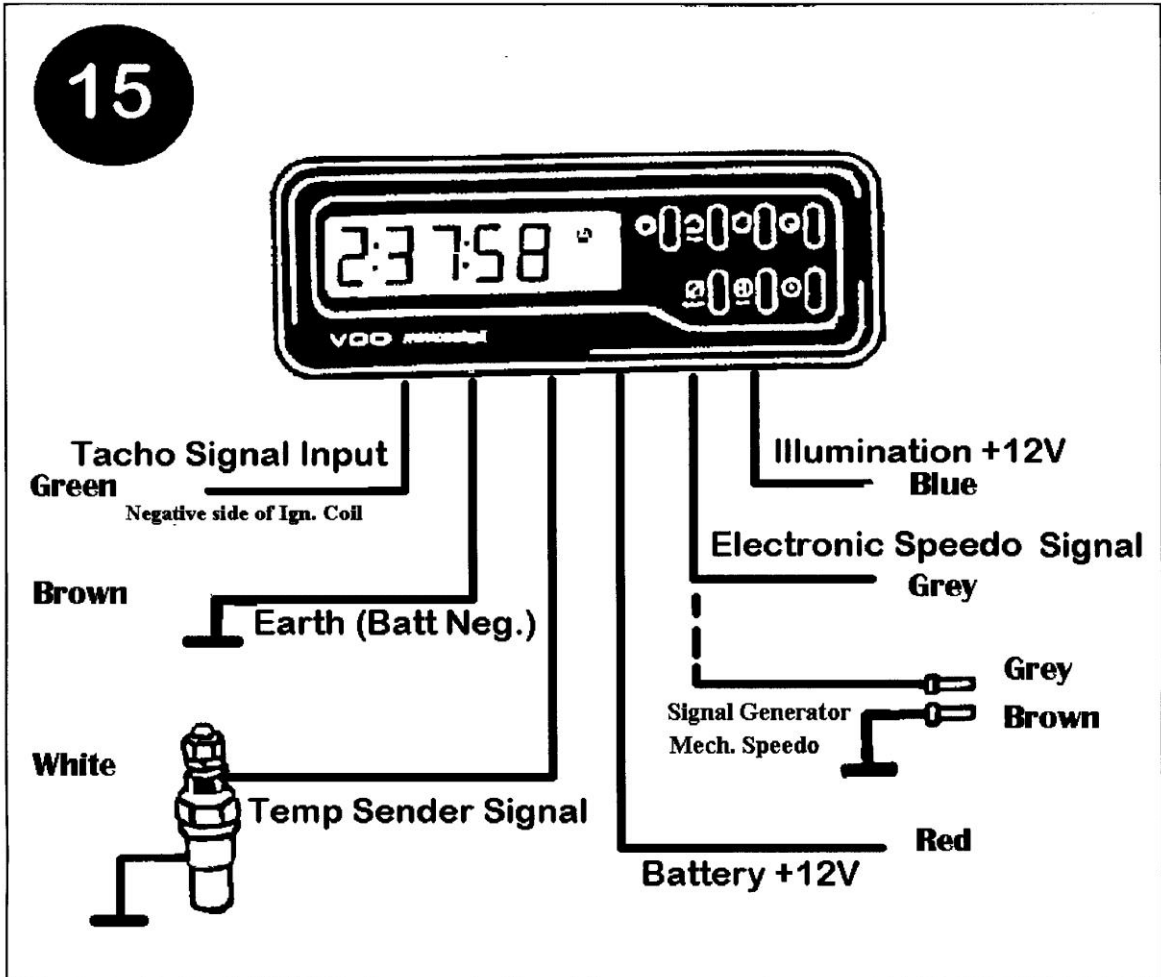
If the Minicockpit is re-setting (in calibration mode) due to a battery voltage drop when starting the vehicle, the following filter can be added between the battery and the Minicockpit, Red wire:



The above circuit can be used if the Ignition Coil is not using a Ballast Resistor when spikes from the Coil is freezing the Minicockpit LCD display.







For further information contact

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