

## General Information

### Basic Operation

The Fuel level sending unit is basically designed to measure the amount of fuel in the corresponding tank at a given moment. This product operates according to the continuity principle and through a rheostat (variable resistance). Therefore, it does not require voltage supply to operate.

Each fuel sending unit has been carefully manufactured in order to guarantee its best performance. Original conditions of the product should not be modified; otherwise the guaranty and any further claims shall be void.

### Information on handling, care, conservation and best Operation

- \* Do not supply any kind of energy directly to the fuel sending unit (voltage, current, etc.)
- \* Keep fuel sending unit inside it's original case unit until the moment of installation.
- \* Keep fuel sending unit in a safe place, away from dust and corrosivo agents. Avoid placing heavy objects on fuel sending unit.
- \* To handle fuel sending unit, grab it by the metal structure and not by the wires, rod or accessories.
- \* Never try to repair or calibrate fuel sending unit.
- \* Do not introduce foreign objects inside rheostat.
- \* To avoid unit failure. protect fuel sending unit against dirty environments.

### Installation instructions for fuel level units.

**Important Note:** This procedure involves fuel handling. Fuel vapor tend to accumulate in lower places. Working area must have proper ventilation and be located away from any ignition source.

1. Disconnect negative wire from battery. Have class B fire extinguisher in working area.
  2. Empty fuel from the tank and store it in a safe place.
  3. Disconnect electric wires and hoses to be replaced from fuel level units, if needed. Do not forget to draw a mark between tank nozzle and fuel sending unit base to keep proper orientation of the new fuel sending unit to be installed.
  4. Remove fuel sending unit from tank body. This may very depending on fastening type used by the car. In some models this is accomplished by loosing a series of screws located on the fuel sending units base. In other models you will have to turn fuel sending units base or remove the padlock that holds fuel sending unit against the tank body.
  5. Place a new joint (seal or gasket) to assure air tight seal of the assembly ( gas tank - fuel sending unit).
  6. Introduce new fuel sending unit into the tank body. Be sure not to damage fuel sending unit during this Operation. Avoid its components to be stocked when passing through tank nozzle. Give special attention to the fuel sending unit's arm (rod).
  7. Fix and direct fuel sending unit according to the mark drawn in step 3. In fuel sending units with screw fastening system. be sure to place its rubber washers in their proper place, to avoid leaks and vapor release. If needed, use a copper-plated washer to assure proper performance of fuel sending unit when design does not include a ground wire or terminal.
  8. Connect electric wires and hoses. if required, to the new fuel sending unit. Check connections before deliver fuel to tank. Verify that there isn't any leak before completing the work.
  9. Connect negativo wire to battery: place starting connector (switch) to ON and check reading of fuel level in the car's panel.  
In case of a reading failure. check polarity and proper contact of connections.
- \* In some cases. in order to acces the fuel sending unit it is necessary to remove the fuel tank according to the corresponding manual.