

_EVs Immobilized: Instantly & Safely

*The safe and fast way to immobilize
& monitor EVs during maintenance.*








_The Garage Plug was developed to prevent unpredictable vehicle behaviour during maintenance on an EV. The Garage Plug is compatible with all R100 EV's and provides visual feedback on the connection with the vehicle and whether the plug is working.

_Overview of differences

| | Garage Plug | Mennekes plug type 2 | J1772 Type 1 |
|---------------------------------|-------------|----------------------|--------------|
| Works fully in all scenarios | ● | ● | ● |
| Fits all electric vehicles | ● | ● | ● |
| PP and CP value self-test | ● | ● | ● |
| Visual contact with the vehicle | ● | ● | ● |
| Checks loss of connection | ● | ● | ● |
| Removable | ● | ● | ● |
| No contact with high voltage | ● | ● | ● |
| Updates protocols | ● | ● | ● |

_The Garage Plug LED-indicator states

The led indicator shows the status of the car when garage plug is plugged in

| | In the car | Safe | Diagnostic |
|--|------------|-------|-------------------------|
|  | Green | No | Waiting for connection |
|  | Blue | Yes | Full connection |
|  | Yellow | Check | PP connection |
|  | Purple | Check | CP connection |
|  | Red | No | Connection lost CP & PP |

_Why the vehicle's own charging plug is NOT a guarantee of predictable vehicle behaviour

Different types of charging plugs

There are several types of charging plug for different vehicle types. The charging plug is designed to supply a maximum amount of current based on a resistance applied to the Proximity Pilot.

These different resistances are not intended to prevent a vehicle from driving away. Some manufacturers have a protocol which does prevent the vehicle from driving off when a resistance is detected. This is NOT standard and therefore does NOT guarantee it is safe to work for all vehicles.

R100 regulations:

"If the on-board RESS can be externally charged by the user, vehicle movement by its own propulsion system shall be impossible as long as the connector of the external electric power supply is physically connected to the vehicle inlet."

The automotive industry has developed a number of solutions in response to these regulations. Certain countries also have different protocols. Due to these differences, not all charging plugs prevent the car from driving off





_Conclusion

Normal separate charging plugs are not suitable for preventing unpredictable vehicle behaviour for all types of vehicles. When using a 'normal' charging plug, you cannot be certain that it will take the vehicle out of drive and put it into park. There is also no visible indication of whether it has connected to the vehicle correctly or if it is malfunctioning.

The Garage Plug is a patented, universal plug that actively communicates with the vehicle and gives a visible indication of this using LEDs. This ensures vehicle behaviour is predictable.

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