

# ALCOLOCK™ GR

## OBD-II KIT – Installation guide

### ⚠ **ATTENTION!**

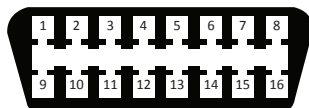
- This guide is intended for authorized service technicians only
- This guide is intended for use with the ALCOLOCK GR installation manual (60-000140)
- If any vehicle components are not functioning, it is the client's responsibility to have the vehicle repaired before continuing installation
- The ECU and OBD-II cabling must not obstruct the operation of the vehicle
- Keep the ECU and OBD-II cabling away from components that move or that may become excessively hot
- Do not connect the ECU to the ECU cable until the ECU cable is installed and visually inspected
- Do not seal any connections until instructed by this guide

### INTRODUCTION:

The GR OBD-II (On-Board Diagnostic) kit—93-002365—is used to link the GR electronic control unit (ECU) to the vehicle OBD-II system.

### OBD-II:

OBD-II is a computer system built into vehicles, which can be accessed to provide important vehicle-diagnostic information. Vehicles with OBD-II have a 16-pin receptacle, usually attached to a vehicle panel under the dashboard and within 2 feet of the driver's wheel.



OBD-II receptacle

The vehicle OBD-II system can provide a tach (rpm) reading for the ALCOLOCK GR device – as an alternative to obtaining tach from under the hood (e.g., from the vehicle alternator wire or with a digital tach sensor).

In hybrid vehicles, tach is unavailable and the ALCOLOCK GR device requires a reading of vehicle speed. A speed reading can only be obtained through OBD-II connection.

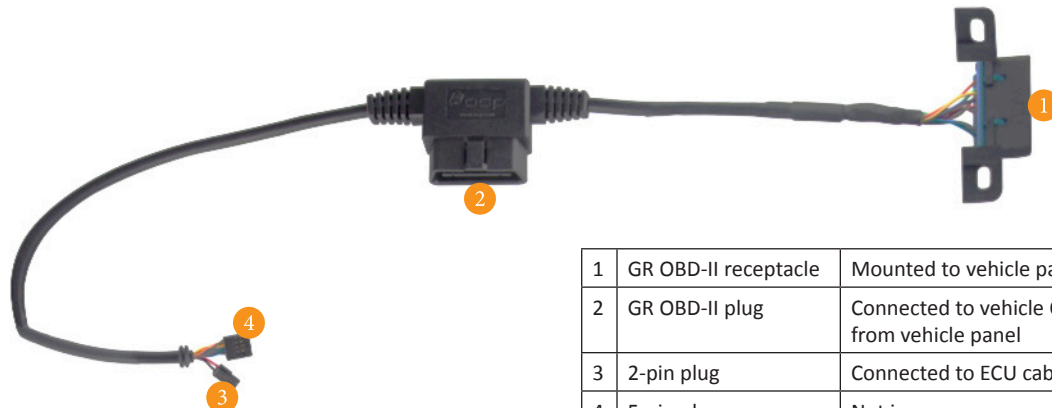
### GR OBD-II kit (93-002365) – parts:

- 13-001080 – GR OBD-II cable assembly
- 79-000262 – Heat shrink, printed black ¾" D x 10 cm L

### GR OBD-II cable assembly – description:

The OBD-II cable assembly provides a secure pass-through connection between the ECU cable and the vehicle OBD-II system. After installation, the driver or a mechanic can still access vehicle OBD-II.

### GR OBD-II cable assembly – connection summary:



1	GR OBD-II receptacle	Mounted to vehicle panel (replaces vehicle OBD-II receptacle)
2	GR OBD-II plug	Connected to vehicle OBD-II receptacle, which is removed from vehicle panel
3	2-pin plug	Connected to ECU cable receptacle
4	5-pin plug	Not in use

## INSTALLATION STEPS:

**⚠ ATTENTION!** Do not install the GR OBD-II kit until completing the following procedures (found in the GR installation manual):

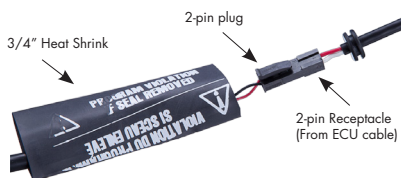
- Inspecting the vehicle electrical system
- Mounting the ECU, alarm horn and alarm flasher (if required)
- Connecting all other required wires from the ECU cable to the vehicle



1. Locate the vehicle **OBD-II receptacle** attached to the vehicle panel – usually under the dashboard, within 2 feet of the driver's wheel.



2. Detach the vehicle OBD-II receptacle from the vehicle panel, keeping all of its wires connected.
3. Connect the detached vehicle OBD-II receptacle to the GR OBD-II plug **2**.



4. Fit the black heat shrink (79-000262) over the 2-pin plug of the GR OBD-II cable assembly. **ATTENTION!** Do not seal the heat shrink until instructed.
5. Connect the 2-pin plug of the GR OBD-II cable assembly to the 2-pin receptacle that branches-off from the ECU cable.

**⚠ ATTENTION!** Do not continue to the next step until completing the following procedures (found in the GR installation manual):

- Connecting the ECU, alarm horn and alarm flasher wires (if required)
- Performing an HS install procedure (on the HS display) and an ITE transaction
- Performing post-installation testing (making sure that the device works correctly)



6. Mount the **GR OBD-II receptacle** to the vehicle panel – in place of the vehicle OBD-II receptacle (detached in step 2). This is so vehicle OBD-II can still be accessed by the driver or a mechanic. **NOTE:** Use existing hardware and holes to minimize vehicle modification.
7. Seal the heat shrink over the connection between the ECU cable and the OBD-II cable (from step 5).
8. Apply a tamper proof label over the connection between the vehicle OBD-II receptacle and the GR OBD-II plug (from step 3).
9. Use tie wraps to neatly incorporate the GR OBD-II cable assembly with the vehicle wire loom. This concludes the OBD-II kit install procedure.

Alcohol Countermeasure Systems Corp



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