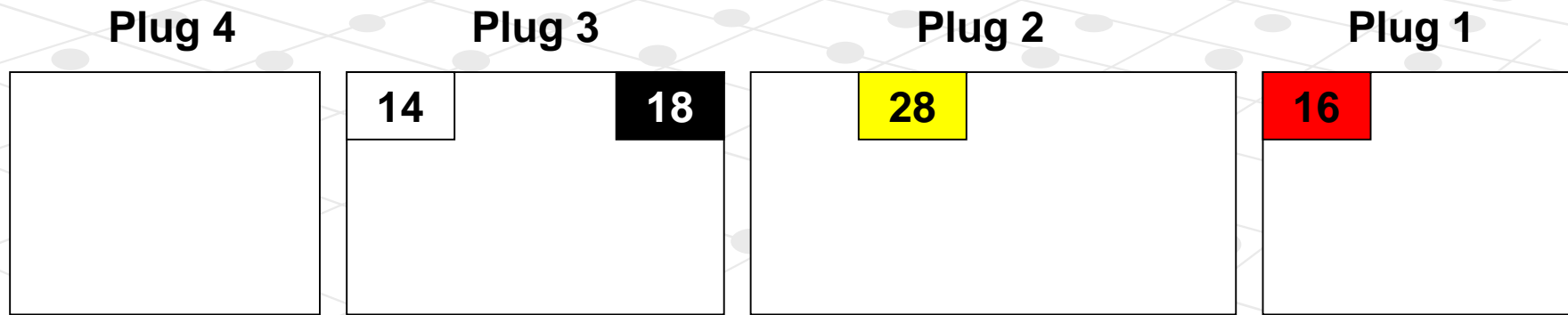


Mercedes 2,2 D 4 Plug Lucas Motor Control Unit









MCU	UNI-SYSTEM	Voltage / Range
■ Plug 3 / Pin 18	Black	Earth
■ Plug 1 / Pin 16	Red	12 Volt
■ Plug 2 / Pin 28	Yellow	2,5 Volt
□ Plug 3 / Pin 14	White	0,35 Volt increasing until 4 Volt

Installing Lucas-System

Installation of vehicle interface

- 1 Turn off vehicle ignition.
- 2 Remove all necessary coverings and uncover the diesel controller.
- 3 Pull out the big multipolar plug from controller and open the plug.
- 4 Now solder the four wires of the connector cable, according to the pin assignment of the controller, onto the respective wires of the controller plug.
- 5 Check assignment once more. A wrong assignment may lead to destruction of the controller and/or the power electronics.
- 6 Insulate all bare soldering joints and close plug.
- 7 Now re-install the controller.

Electronic Function:

-  Operating Voltage
-  Earth
-  Control Cable 1
-  Control Cable 2
-  Accelerator Signal
-  Air flow signal

Voltage Range:

- 12 to 14 Volt
- 0-0.6 Volt
- 2.5 Volt
- 2.5 Volt
- 0.35 to 4 Volt increasing
- 0,40 to 3 Volt increasing

Setting LUCAS-System

- 1 Keep ignition off and connect setting cable to vehicle interface; take the other end of the cable into the vehicle interior.
- 2 Now connect the UNI-System to the setting cable.

Setting range of power performance

The car *must* reach operating temperature before doing any adjustments!!

While you are driving with full-load, with an engine speed between 2000 rpm and 3000rpm, turn the screw of the potentiometer to the right until the increased efficiency of acceleration becomes noticeable or/and until moderate-strong smoke becomes visible. Turn the screw p1 (metal) back slightly; In no case at all should soot exhaust be higher than in the standard condition.

The other potentiometer (plastic) is set to center - twelve o'clock position.
But the module will already be delivered in this standard setting!

Final installation into vehicle.

The settings are now complete and the power electronics can finally be installed.
Remove the setting cable and connect the power electronics directly to the vehicle interface.