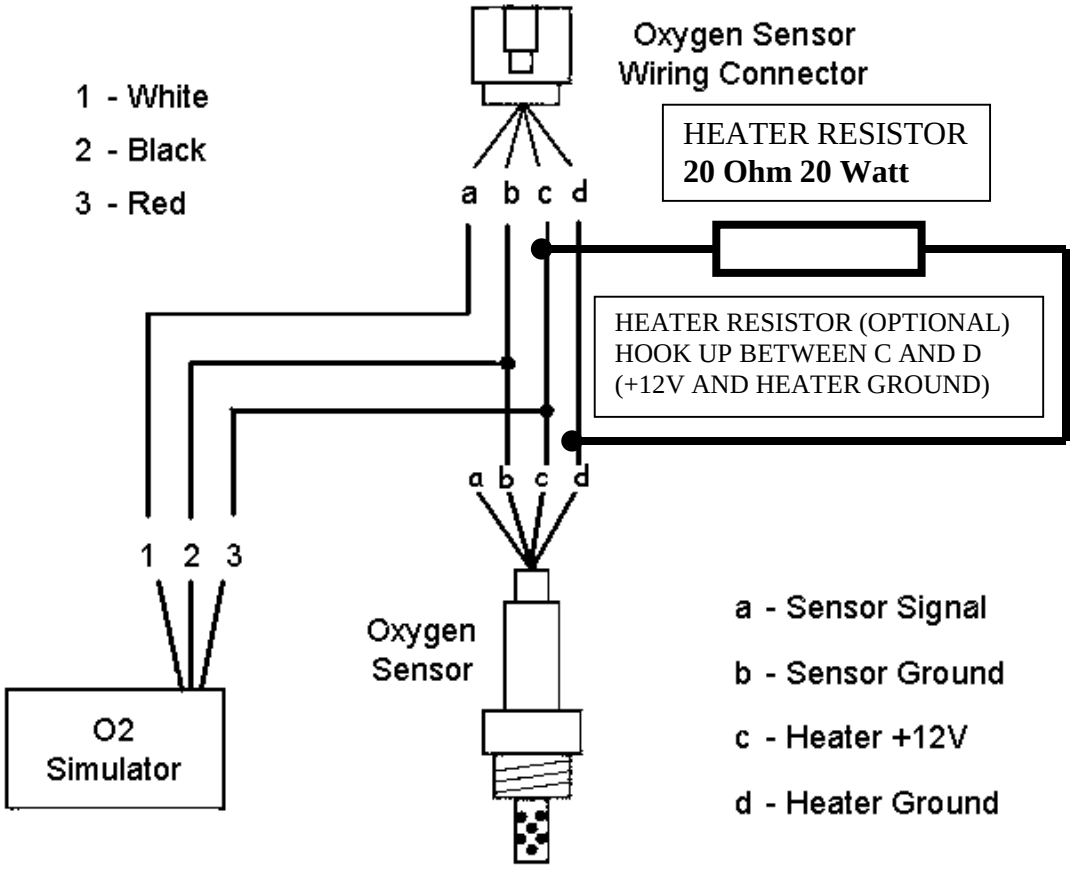
Universal (HEMI, MINI, LEXUS) o2 simulator installation instructions.

Dual output o2simulator has two White Signal wires for dual exhaust application.



WARNING: Removing or defeating of a vehicle emissions system may be prohibited in your State or Country. Please check your local State laws.

1. Locate secondary o2sensor (sensors).
2. Establish which o2sensor wires are: Signal, +12V and o2sensor ground. Use factory service manual for reference. You can find secondary oxygen sensor color coding table on: www.o2simulator.com/download/makespecifico2colorcoding.pdf or make/model reference on: www.o2sim.com/28301/28845.html
3. Verify +12V wire with Voltmeter, by probing the wire with respect to chassis ground, when Ignition key is in ON position. +12V is one of the o2sensor heater element wires, they are usually same color (2 white, 2 black, 2 brown, 2 red). Some cars cut +12V heater power, when o2sensor heater element riches normal operating temperature (JEEP,FORD etc.), so you can use any constant +12V source (ignition).

4. Look at the wires of two different colors. They are: o2sensor ground wire (usually gray) and o2sensor signal wire (usually black). Verify o2sensor ground wire by measuring resistance or continuity test between wire and chassis. The resistance should be around 4ohms or less. Please note: o2sensor ground, heater ground and chassis ground are different. Remaining wire would be: o2sensor signal wire.
Email us if you need color of your secondary o2sensor harness wires (engine side)

5. Disconnect Negative battery terminal to avoid damaging vehicle electric system.

6. Connect o2 simulator Black wire to o2sensor Ground wire. *Recommendation: connect wires by using insulated crimps or soldering and using appropriate insulation, electrical tape or heat-shrinking tubing.*

7. Splice o2 simulator Red wire to o2sensor +12V or +12V ignition wire. Do not cut +12V heater wire. *Recommendation: connect wires by using insulated crimps or soldering and using appropriate insulation, electrical tape or heat-shrinking tubing.*

8. Cut (do not splice) the o2sensor Signal wire and connect the o2sensor harness wire (not the o2sensor side) to o2simulator White signal wire. If you have two secondary o2 sensors, connect second o2simulator white wire to remaining o2sensor harness end. *Recommendation: connect wires by using insulated crimps or soldering and using appropriate insulation, electrical tape or heat-shrinking tubing.*
If you have dual output o2simulator (2 white signal wires) and only one secondary o2sensor, just use one white signal wire and leave second signal wire unhooked.

9. Insulate cut oxygen sensor signal wire with the electrical tape. Secure O2 Simulator with the double-sided tape and the plastic strap. Reconnect negative battery terminal.

10. With the Ignition in ON position o2simulator internal LED should blink.
11. If you want to eliminate secondary o2sensor completely, you have to use our heater resistor (20 Ohm, 20 Watt) to simulate o2sensor heater element and avoid the P0141 (faulty o2 heater error code). Hook up heater resistor between 2 heater wires (usually same color): +12V and heater ground. One heater resistor for each o2sensor. Please be aware: Heater resistor will get hot, too hot to touch. Mount heater resistor in a location that keeps anything flammable or melt-able from touching it.
12. If you have any questions, please e-mail us at: o2sim@o2simulator.com Please provide : Make/Model/Year/engine size, color of your secondary o2sensor, how o2simulator connected, and what error code you are getting. You can scan PCM/ECM for free in AutoZone stores. To reset error code: disconnect battery for 3 minutes.

THANK YOU! WWW.O2SIM.COM