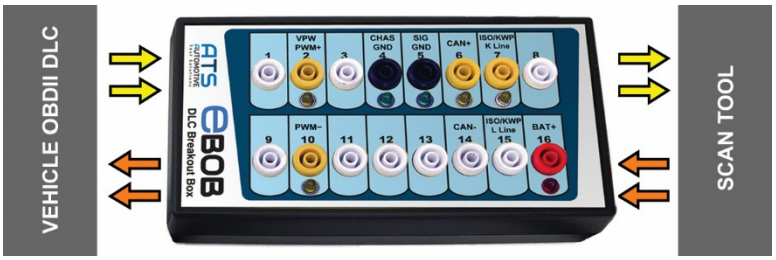
ATS DLC Breakout Box

OBDII data line monitor and breakout box

The ATS ***DLC Breakout Box*** is a 'pass through' breakout box for the OBDII DLC (diagnostic link connector). The ATS ***DLC B.O.B*** offers easy access to the OBDII DLC for safe probing and testing without the fear of accidental shorting of the wrong pins and without the need to be a contortionist.

BENEFITS

- Eliminate the need to probe at the DLC.
- Access each of the 16 DLC pins while scan tool communicates with vehicle.
- LEDs to quickly indicate DLC power or ground problems.
- ***DLC B.O.B*** mimics the DLC connector layout for quick reference.
- Use the ***DLC B.O.B*** as an extension cord for your scan tool.
- Quick, safe and convenient access to chassis ground and power through the DLC connector.



FEATURES

- Uses safety banana sockets that accept all types of 4mm banana plugs including those with safety sheaths.
- Socket layout mimics DLC connector.
- LEDs to indicate activity:
    - Yellow LED's light up to show communication with scan tool and protocol identification.
    - Green LED's on grounds (Pin 4 and 5) light up when ground is good.
    - Red LED on power lights up when there is power.
- 4-ft" extension cable with DLC adapter connects to vehicle.
- Pin 16 input protected with 1.2 amp polyfuse.

Cautions / Disclaimers

This tool is designed for use by automotive professionals. Since neither the manufacturer nor the reseller can control the application of or installation of this product, their obligation shall be to replace this product if defective and shall not be liable for any injury, loss, or damage arising from the installation or application of this product. User assumes all risk in using this product and is therefore cautioned in selecting the product suitable to the intended use. No other warranty expressed or implied is given unless required by the state in which the product is purchased.

This tool provides easy access to the vehicle data bus lines.
Improper use of this tool can result in damage to the vehicle data communication system and associated circuits and systems.
If you are not sure about what you are doing - don't!

- Do not jumper pins together without understanding the circuit.
- Do not use the tool to power up a load device exceeding 1 amp.
- Do not place the tool in a spot that may interfere with foot pedal controls.
- Do not place a jumper between the power pin 16 and ground pins 4, 5.

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DLC Breakout Box 'Diagnostic Mode' and 'Activity Mode'

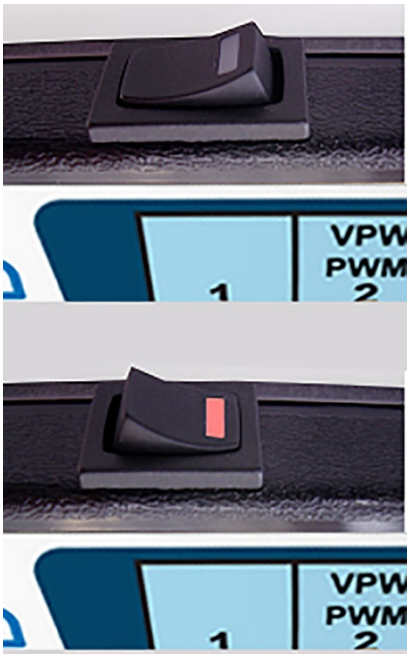
The ***DLC B.O.B*** has two operational modes: Activity Mode and Diagnostic Mode. The operational modes allow the circuit of the ***DLC B.O.B*** to be engaged or disengaged. When the circuitry is engaged the yellow LEDs will flash when changes take place on the corresponding data line. The flashing LEDs will allow you to determine the activity on that line. When the circuit is disengaged the circuitry for the yellow LEDs becomes fully transparent to your testing. The yellow LEDs will no longer flash.

Activity Mode - Smart breakout box

- Switch LED is off
- Yellow LED circuit is engaged.
    - o Yellow LEDs will flash when data is present on the corresponding line.

Diagnostic Mode - Basic breakout box

- Switch LED is on
- Yellow LED circuit is disengaged.
    - o Yellow LEDs will not flash when data is present on the corresponding line.



When to use Diagnostic Mode

The circuitry for the yellow LED is very high impedance. In most situations this will be completely transparent to your testing and will not affect any signals on the data lines. The yellow LED circuitry can be an issue when are diagnosing a open wire to the DLC on pin 2, 10, 6, 14, or 7. For example, if you want to use a logic probe to detect an open wire you would expect these results:

- Wire Low = green light
- Wire High = red light
- Wire Signal Toggling = red or green and flashing yellow
- Wire Open = no lights

If the circuitry to ***DLC B.O.B*** yellow LEDs is engaged (Activity Mode) then you will never be able to get a Wire Open = no lights result because the logic probe will be responding to the **Line*Spi*** circuitry. Switching the ***DLC B.O.B*** to Diagnostic Mode and you will be able to get a Wire Open = no lights.

Other times when you might want to use Diagnostic Mode:

If you have a no-communication problem with your scan tool and you simply want to eliminate the the yellow LED circuitry.

Note: The green and red LEDs corresponding to DLC pins 4, 5 and 16 are always active.