

### MTS components:

- LMA-3: Auxiliary Input #3 (AuxBox- RPM, Temp, Duty Cycle, Acceleration, Boost/MAP): #3742
- LC-1 (Lambda Cable): #3769
- Stainless Steel Bung w/ Steel Plug" #3736
- HBX-1: Heat-sinking Bung Extender: #3729

### Replacement Parts:

- Terminator Plug: #3750
- MTS 2.5mm to 2.5mm serial cable: #3760
- Serial Programming Cable: #3746

Order parts, get support, find FAQ answers, and read case studies at [www.tuneyouengine.com](http://www.tuneyouengine.com)



**Warning!**

1) The Oxygen Sensor used with this device gets very hot in operation. Do not touch the hot sensor. Do not let a hot sensor touch a combustible surface. Do not use the sensor with or near flammable liquids or gases. Failure to heed these warnings may result in severe burns, explosions or fires. 2) When installed in the exhaust, the oxygen sensor **MUST** be connected and operating with the wideband controller whenever the car is running. An un-powered oxygen sensor will be quickly damaged when exposed to hot exhaust gases.



## XD-1 QUICK START GUIDE

*The complete instruction manual is on the CD*



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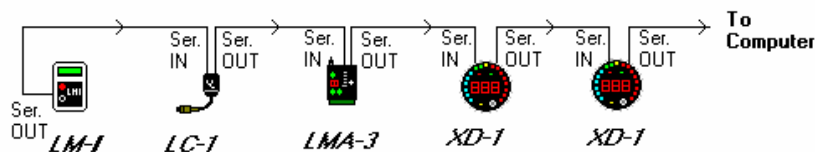
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# XD-1

## QUICK START GUIDE

1. If not using a gauge pod, cut a 52mm hole into the intended dash location.
2. Insert and mount the XD-1 with the included mounting bracket, leaving the XD-1 cables in the back accessible.
3. Connect the RED wire from the back of the XD-1 to a switched 12V source in your car. A switched 12V source is powered as soon as the ignition on the car is on or the engine runs. Make sure the connection is fused with at least a 2A fuse. Connect the BLACK wire from the back of the XD-1 to a chassis ground.
4. If connecting to a LM-1, connect the "XD-1 to LM-1 cable" to the LM-1's Serial Port. Plug the 2.5mm male stereo end into the XD-1 Serial IN port (female 2.5 mm socket marked "IN").
5. If connecting to an LC-1 or LMA-3, connect the male to male 2.5mm Stereo cable between the Serial OUT port of the LC-1 or the LMA-3 to the Serial IN port of the XD-1.
6. If using a computer to data log or download LM-1 data, connect the XD-1 to Computer cable between the Serial OUT port of the XD-1 and the computer's serial port

The following diagram show how to connect multiple Innovate Motorsports devices to form a logging and display chain. The example chain consists of a LM-1, a LC-1, a LMA-3 and 2 XD-1's. In this case the chain has 12 channels (6 from LM-1, 1 from LC-1 and 5 from LMA-3).



### Tips/Tricks

#### 1. Initiating a free air calibration

Press the Control button three times rapidly. The display will show a blinking:



Pressing the Control button while the blinking CAL is displayed will initiate a free air calibration on ALL connected wideband devices.

If the button was press accidentally three times, wait for 5 seconds. The XD-1 will return to normal display mode.

#### 2. Start/Stop Recording

When the XD-1 is used with the LM-1, press the Control button once to start recording. The Record indicator light will blink. Press the Control button again to stop recording. The Record indicator will switch off.



**To gain access to the complete XD-1 manual please install the software provided on the CD which was included as part of your kit. The manual will contain important information such as configuration, programming, and other tips & tricks.**