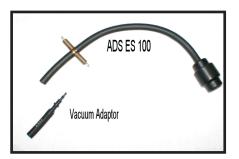


Automotive Engine Diagnostic Sens Model ADS ES 100





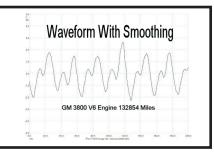
Sometimes the exhaust signal is very noisy. This is usually caused by reflections and resonance in an exhaust system containing many sharp angles and bends. Such a signal can be smoothed considerably by inserting the vacuum line probe into the regular exhaust probe as show below.



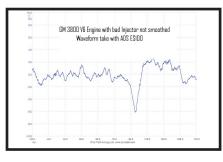


Doing this will smooth the signal as shown in the examples below:

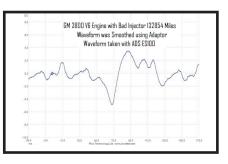
Waveform Without Smoothing				
10	Aller	1 1.	M-A.	1
10 M	m mr M	WW	hwy	N
-20			v	
-10	GM 3800 V6	Engine 13285	4 Miles	



Some data will be lost but major problems will remain obvious:







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