

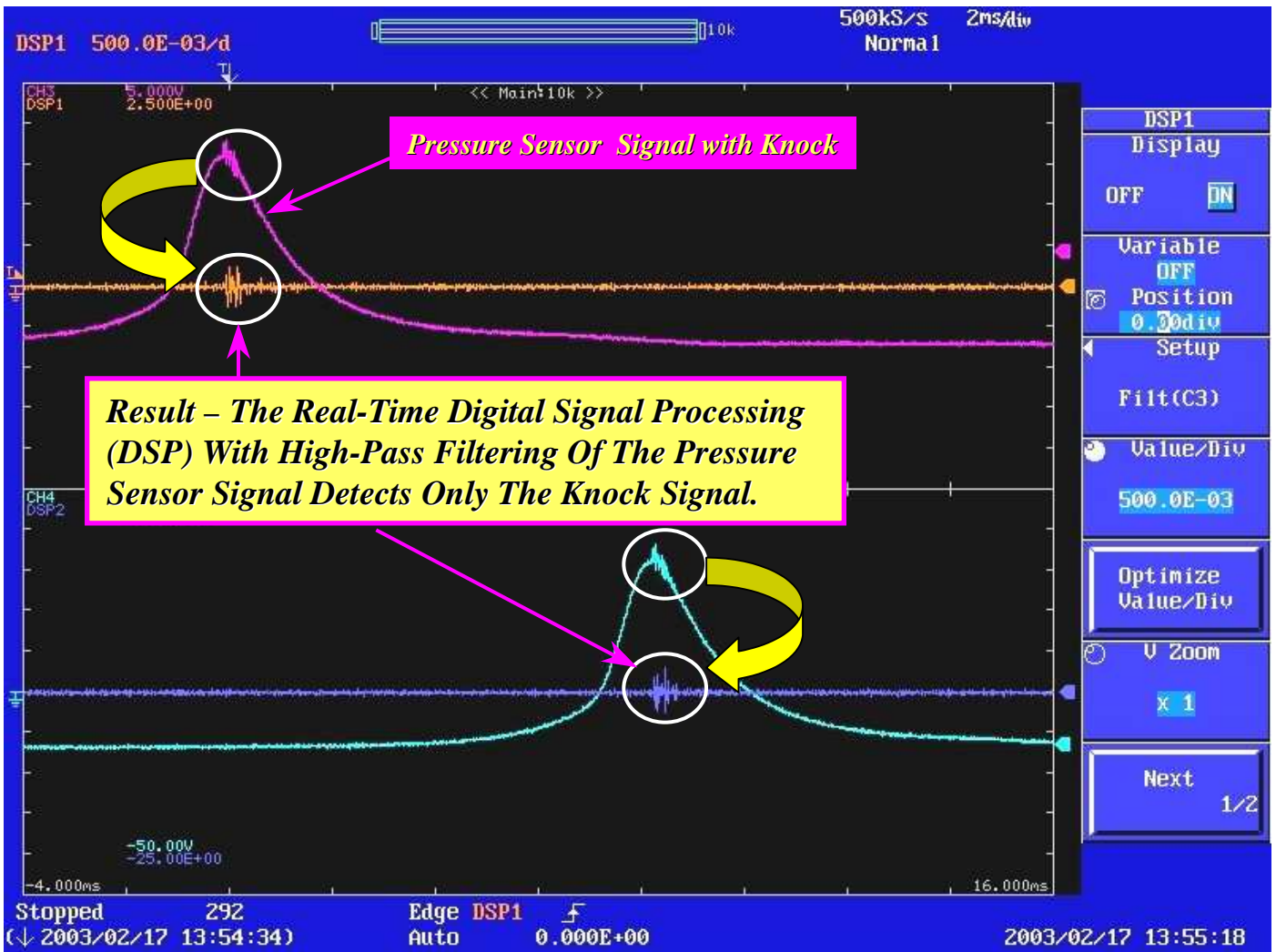
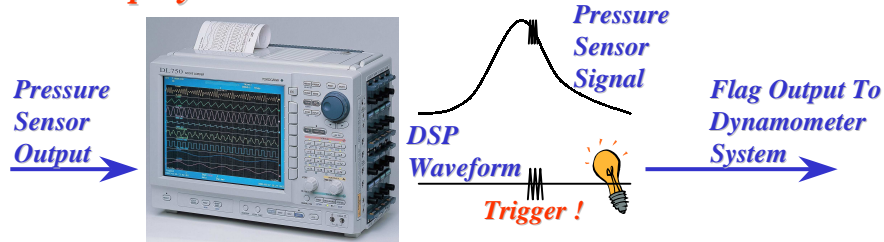
Real Time Engine Knock Detection

DL750 Application



Detecting engine knock is critical for verification of ignition advance mapping. Two types of knock sensors include the accelerometer and the cylinder pressure sensor. Measuring cylinder pressure offers the advantage of being able to monitor multiple cylinder pressures simultaneously. Cylinder pressure sensors detect knock as the change in combustion pressure. When knock occurs, high frequency components are superimposed on the combustion pressure signal. Past methods of detecting this superimposed signal required the use of external high-pass or band-pass filters.

NOW – the New Yokogawa DL750 ScopeCorder with its DSP function and real-time digital filter math channel eliminates the need for external filters – and it can trigger on the math channel and display as shown...



- > Individual Frequency Cut-Off Set - points For Each Channel's Digital Filter
- > Trigger On DSP Waveforms
- > Activate A Buzzer Output Or Trigger Output With Each Trigger



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