

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

1. **Engine/Propulsion**
2. **Engine Controls and Fuel - 6.2L (LT2)**
3. **Specifications**
- 4.

Oscilloscope Waveform Library

Description

The figures in the tables below are reference waveforms collected from known-good vehicles and faulted vehicles. Each figure is accompanied by a description.

Relative Compression - Diesel Engines

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1. 8> Cylinder Engine
2. 4> Cylinder Engine
3. 6> Cylinder Engine

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1. 3> Cylinder Engine - Low Compression
2. Low Compression - The waveform repeats every 3> compression strokes, indicating a current and repeatable compression fault.
3. 8> Cylinder Engine - High Starter Load
4. Exhaust Valve = Stuck Closed - The waveform repeats every 8> compression strokes, indicating a current and repeatable compression fault. When one cylinder displays double the relative compression, this is an indication of a stuck closed exhaust valve on the companion cylinder.

Normal	Abnormal
Note : • An engine with little to no compression variance between cylinders will have waveform valleys that are even. • If the engine compression is equally low across all cylinders, the oscilloscope pattern will appear good. • The total amplitude (range from highest to lowest point of the waveform) is NOT an indicator of good compression. Operating Conditions: 1. Fuel System>> Disabled 2. { Automatic Transmission } Apply & Hold >> Brake Pedal 3. { Manual Transmission } Apply & Hold >> Clutch Pedal 4. Engine >> Cranking - For 5Ã¢Â€Â“10nsps	

Relative Compression - Gasoline Engines

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1. 8> Cylinder Engine
2. 6> Cylinder Engine
3. 4> Cylinder Engine
4. 3> Cylinder Engine

[Click here for full size](#)

1. 3> Cylinder Engine - Low Compression
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Normal	Abnormal
Note : • An engine with little to no compression variance between cylinders will have waveform valleys that are even. • If the engine compression is equally low across all cylinders, the oscilloscope pattern will appear good. • The total amplitude (range from highest to lowest point of the waveform) is NOT an indicator of good compression. Operating Conditions: 1. Fully Applied >> Accelerator Pedal @ Wide Open Throttle 2. { Automatic Transmission } Apply & Hold >> Brake Pedal 3. { Manual Transmission } Apply & Hold >> Clutch Pedal 4. Engine >> Cranking - For 5-10s	