



# CESSNA

## SmoothRide Engine Mount System

FAA/PMA Approved (STC SA000796AT)

## Are you ready for a smoother ride?

### SMOOTHRIDE ENGINE MOUNT SYSTEM FAQs:

What's the biggest advantage the SmoothRide Engine Mount System offers over the standard Cessna system?

The reduction in cabin vibration is striking, especially in the lower RPM ranges. This means you and your passengers will immediately notice that your flights are smoother, less tiring and more enjoyable. It also means your airplane won't be subjected to as much vibration, which offers the possibility of future savings through improved component life.

Besides reduction in cabin vibration, are there any other benefits of the system?

Yes! Most standard engine mounts in the Cessna 200 Series will begin to sag. This is because the weight of the engine compresses the rubber isolator in the front engine mounts. When the engine sags, the thrust line of the propeller moves away from perfect alignment, which affects efficiency and performance. The SmoothRide Engine Mount System provides increased support preventing sag, restoring thrust efficiency and eliminating the need to shim the engine mounts periodically.

How was the cabin vibration reduction measured?

Our aeronautical engineers attached dual vibration sensors to the pilot seat tracks of several Cessna 210s and the airplanes were first flown with the standard four-point Cessna engine mount. Multiple vibration amplitudes were measured and recorded at each power setting. Then, the SmoothRide Engine Mount System was installed in the same airplanes with the same engines. The flight tests were repeated and cabin vibration was measured and recorded in the same manner using the same instruments. The data was compiled and loaded into a computer spreadsheet.

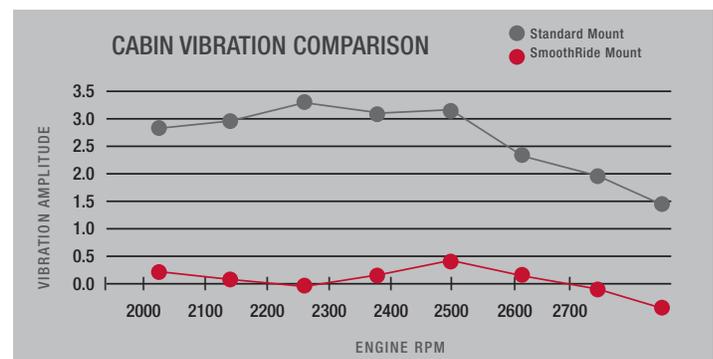
What does the installation involve and how long does it take?

The STC must be installed by an FAA-licensed A&P mechanic. Experience has shown that the quickest installation is accomplished by removing the engine, locating and installing the SmoothRide Engine Mount System and then reinstalling the engine. We have found that the installation can normally be completed in three working days and requires about 20 man hours. If needed repairs are discovered, the total job may take longer.

TruAtlantic Mfg introduces a revolutionary innovation in engine technology with the SmoothRide Engine Mount System STC for Cessna 200 series aircraft. Developed and marketed exclusively by TruAtlantic, the STC kit includes a newly designed and tested six-point engine mount that provides a dramatic reduction of engine vibration to the cockpit environment. The increased stability of the SmoothRide Engine Mount System prevents engine mount sag during engine life and maintains a centered thrust line. Engine vibrations are significantly decreased from takeoff to touchdown, reducing fatigue and stress on both the airplane and the pilot.

Engine isolators are increased from four to six, while dual front mounts add strength and stability. The kit includes dual engine mounts, mount legs, heat shields, all new isolators, STC drawing and fittings. Dual front mounts add strength and stability.

- 70% reduction in cabin vibration
- Revolutionary six-mount system
- Simple installation
- Reduced stress on airplane
- Reduced engine sag
- FAA/PMA Approved



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