



# TRINE

Aerospace & Defense

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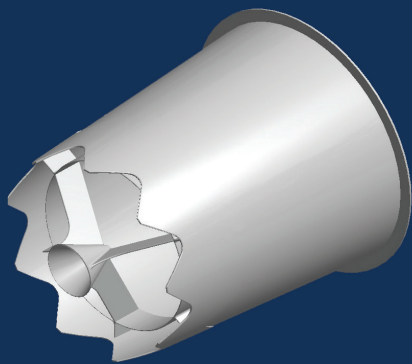
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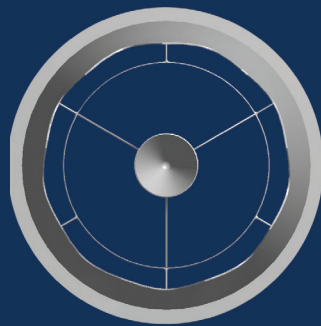


## Learjet 20 Series Hush Kit

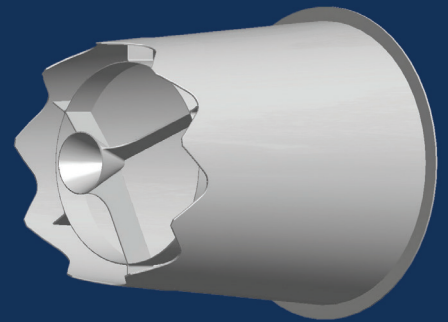
The Lear 20 Series is an icon of business jet travel.  
We can keep your 20 Series flying well into the future...



The Hush Kit installs in 3 to 5 days at our Colorado Springs facility.



We use in-house engineering and manufacturing, ensuring quality, reliability, and competitive pricing.



No changes to engine core or cockpit readouts. Thrust reversers remain on the aircraft.

## The Lear 20 Series defined the standard for business travel. It was your first love in aviation.

The FAA Modernization and Reform Act of 2012 prohibits aircraft with a maximum weight of 75,000 pounds or less from operating within the contiguous U.S. after December 31, 2015 unless they can comply with Stage 3 noise guidelines. This act threatens to ground over three hundred 20 Series Learjets currently operating in the U.S. Those aircraft unable to comply with the Stage 3 guidelines will be relegated to operating outside the contiguous U.S., parted out, or scrapped.

Trine Aerospace & Defense is proud to present a hush kit solution that will allow 20 Series aircraft to comply with Stage 3 guidelines, maximize performance, retain the thrust reversers and be affordable enough to justify.

The excessive noise from a jet engine is caused by high-velocity, high-temperature exhaust clashing with cooler ambient air. Noise levels can be reduced by slowing the exhaust, cooling the exhaust and spreading out the area in which the mixing of air takes place. Our new Learjet 20 Series Hush Kit incorporates an internal eductor and new chevron design technology developed by the engine manufacturer. The chevron concept is a series of cutouts around the aft end of the exhaust nozzle. These cut outs create vortices in the engine's exhaust flow allowing hot exhaust to mix with cool ambient air prior to exiting the engine cowling. Trine's internal eductor creates a flow of high pressure to low pressure air that slows and cools the exhaust, quieting the engine.

Trine Aerospace is a full service aviation company offering comprehensive aircraft solutions that include maintenance (Part 145), engineering, parts manufacturing, aircraft modification, and FAA certification services for both fixed wing and rotary-wing aircraft. Using our own experienced in-house engineers and FAA-DER authority, and drawing from a broad range of aircraft program management experience, Trine offers turn-key solutions with competitive pricing and unmatched customer service.



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