



# CTRL UL101 AVIATION KIT

*Recommend in the Aircraft Maintenance Manual (AMM) for all Boeing Commercial jet aircraft | CTRL Part No. B00033 / Boeing Tool Tag SPL-1473*



## Instantaneous.

The CTRL UL101 Aviation Kit is the approved instrument for minimizing cost of delay related to the applications listed in the AMM for all Boeing Commercial jet aircraft. With the UL101, processes that used to take days can be accomplished in single hour.

## Superior sound clarity.

Easily distinguish the different sounds produced by systems leakage and quickly pinpoint the exact location of the fault using the UL101. No other ultrasound device on the market offers similar noise-to-signal ratio, ease of use, or sound quality. Never miss a fault with the UL101.

## APPLICATIONS ON ALL BOEING COMMERCIAL JET AIRCRAFT

Pressurization Leak Tests | Air Conditioning Leak Checks | Bleed Air Checks (Airframe and Engine) | Hydraulic Bypassing | Pitot Static Check | Oxygen | Evacuation Slides, Tires & Other Pressure Components

## TROUBLESHOOTING

The **CTRL UL101 Aviation Kit** converts ultrasound signals produced by industrial machinery and vehicles into easily recognizable audible sounds so the Aircraft Maintenance Technicians can quickly locate leaks in various systems on all Boeing Commercial jet aircraft.

## FEATURES

- Fixed Frequency
- High Sensitivity to all turbulent flow air, gas, or vacuum leaks
- Easily adjustable sensitivity and gain
- Lightweight, one-handed operation
- Converts ultrasound to easily recognizable audible sounds

# CTRL UL101 Aviation Kit Specifications

Receiver / Transmitter Dimensions	8.75" x 1.26" x 1.26" (222 x 32 x 32 mm) 4.125" x 1.26" x 1.26" (105 x 32 x 32 mm)
Receiver / Transmitter Weight	11.6 oz (330 g) 6.2 oz (175 g)
Kit Shipping Dimensions	17" x 8" x 14" (43 x 20 x 35 cm)
Kit Shipping Weight	10 lbs (4.5 kg)
Housing	Extruded Aluminum, wall thickness .09" (2.3 mm)
Battery	9-Volt Alkaline (> 45 continuous hours use)
Distance of Reception	Up to 150 feet (45 m)
Sensitivity Threshold	Minimum Intensity: $10^{-12}$ W/m <sup>2</sup> (0 dB SPL) Minimum Ultrasonic Pressure: $2.0 \times 10^{-5}$ PA @ 40 kHz
Frequency Bandwidth	1.8 - 2.2 kHz @ level 0.7 (or -3 dB SPL)
Working Resonance Frequency	40 kHz +/- 1.5 kHz
Operating Temperature Range	-4° to +130° F (-20° to +54° C)
Headset	Industrial Grade/600-Ohm Impedance 21-24 dB External Noise Attenuation Over or Behind-the-Head (for use with hard hat)
Warranty	5-year parts & labor on all manufacturer's defects. No calibration required. Requalification of performance (once per year)
Intrinsically Safe (optional upgrade)	ANSI /UL 91 3-88, for DIVISION 1, CLASS I, Groups A, B, C and D, CLASS II, Groups E, F, G and CLASS III It also complies with DIVISION 2, CLASS I, Groups A, B, C and D, CLASS II , Groups F, G, and CLASS III

