

CTRL UL101 AVIATION TROUBLESHOOTER

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 Troubleshooter for Boeing 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 Troubleshooter** 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

UL101 Troubleshooter Specifications

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| 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 ² (0 dB SPL) Minimum Ultrasonic Pressure: 2.0×10^{-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 |

