

The RD³ (Rapid Damage Detection Device) is a hand held, low cost non-destructive inspection instrument that can be used to detect voids, degradation, and delaminations in composite structures. With a Tap Hammer, no more tapping with a coin in a noisy environment for questionable results. The RD³, also known as the Electronic Digital Tap Hammer, supplements the subjective tonal discrimination of the operator with a quantitative, objective numeric readout that can be correlated to delaminations in the structure. The unit consists of a lightweight hammer containing an accelerometer, which is connected by flexible cable to a hand held module containing digital logic components and a liquid crystal display.

In a controlled comparison against another bondtester now on the market, the RD³ produced similar results and actually showed slightly greater relative signal change (sensitivity) at 4, 6 and 7 plies. (Their bondtester uses a solenoid-driven impact head to produce a controlled amplitude impact.) The RD³ did not show as great a signal change as the solenoid tapper did at 2 plies, but sensitivity is not an issue at this level because the signal difference between bonded and disbonded plies is so large. In terms of actual data, the RD³ compares favorably with the other much more complex and costly device.

For use on Composite and metallic Aircraft Structures for :

- Locating/measuring impact damage
- Repair evaluation
- Monitoring :
- Matrix degradation
- Delaminations and disbonds

Specifications-

Items	P/N F4TAP002, RD ³ Electronic Digital Tap Hammer
Size	7" x 4" x 1 5/8"

NSN

6625-01-459-0019


Standard Features⁺

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Portable, hand held low cost system
Can detect flaws with as little as 10 percent change
Large 0.350 inch display for digital value
Automatic display reset
Low weight detection hammer
Scope monitor jack for hammer signal evaluation and signal storage
Approximately 20 hours of continuous battery operation
Durable impact resistant case
“Low battery” light
1-year warranty

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