

# Weather Radar Test System PTS-3500

The Ideal Aerosmith PTS-3500 Weather Radar Test System provides automated return-to-service testing of all current models of the Rockwell Collins digital Weather Radar Systems, including the WXR-700, the Forward Looking Windshear (FLW) unit, and the Multi-scan WXR-2100 radar systems. The system is used by Rockwell Collins' service centers worldwide for Level I and II testing of R/Ts, antenna pedestals, radar control panels, and dedicated radar indicators, and it is specified as the recommended test solution in the respective Rockwell Collins CMMs.

The PTS-3500 is a complete turnkey test system containing all of the hardware and software that an avionics shop needs to test and re-certify weather radar LRUs. The system replaces the previous generation of obsolete manual test equipment and provides the added benefit of automation by running the same \*ADATE software that Collins uses. This minimizes test discrepancies between the avionics shop and the OEM, since both are using the same test hardware and software. The system also has a manual mode that allows the user to control LRU inputs and read LRU outputs in a manner identical to that of the previous manual equipment, reducing upgrade training requirements.



The system is supplied in a single 6-foot equipment bay, with casters. The following components are installed and thoroughly tested prior to delivery:

- IFR RDX-7708R Weather Radar Test Set
- Tektronix TDS-460A four channel digital oscilloscope
- Agilent 6812C programmable AC power supply
- Agilent 66000 programmable DC power supply
- Ideal Aerosmith PTS-3100 Weather Radar Resource Panel (contains all aircraft interfaces, including ARINC 429, ARINC 453, synchro/resolver, analog and digital I/O, and power control resources)
- Ideal Aerosmith PTS-3000 System Test Controller (a rack mounted PC with GPIB controller and all test software for R/T, WXI, WCP, and WMA installed)
- System Power Control Panel
- Radar UUT Fan Tray
- Turbulence Test Controller
- Antenna Weight Simulator
- UUT Test Cables for Collins radar R/Ts, WXI indicators, WCP control panels, and WMA antenna pedestals

*NOTE: A WXI-701 (622-5128-XXX) or WXI-711 (622-6514-XXX) Radar Indicator is required for test and must be supplied by the user. It is not included in the system.*

The system can be ordered for either 115Vac or 230Vac, 50Hz or 60Hz shop power.

Ideal Aerosmith routinely provides on-site installation, commissioning, and training at each customer's site. To discuss a particular radar test application, please contact Ideal Aerosmith.

**\*Please note that the PTS-3500B WXR Test System uses ADATE test application software that is owned, controlled, and updated by Rockwell Collins. Rockwell Collins uses this test system and software in their factory and service centers for weather radar component testing. Only with Rockwell Collins' approval does Ideal Aerosmith install the latest version of the Collins ADATE software on the PTS-3500B before it is delivered to an Airline. If this approval is granted, future software releases and revisions shall then come directly from Rockwell Collins. Please contact Rockwell Collins for information on purchasing their software and their update service.**