



ATR Services, Inc. has restored hundreds of ATR machines of various vintages and conditions since 1991. A restored machine provides a cost effective means of addressing multiple performance and reliability issues at one time, issues that are common to most aging ATR-100 recorders. All restored machines operate smoothly, look new, meet (and usually exceed) all published specifications and perform reliably. Best of all, they *feel* new.

**Standard restoration includes:**

- Complete disassembly of the recorder
- Elevation check / adjustment of the deck plate and inserted machined parts
- ATR Services ultra-low flutter urethane mastering grade capstan/tachometer assembly
- New capstan/tachometer precision optics
- New class 7 tape guide bearings
- Head assembly cleaning, elevation adjustment and checkout
- Scrape flutter idler cleaning, lubrication and alignment
- Wiring harness inspection
- Tin connector pins on older machines replaced with Gold pins. (Extra Cost)
- Replacement of all electrolytic capacitors
- Various circuit board factory updates added depending on board and frame level
- Motherboard upgrade and reliability modifications
- Complete rebuild of capstan and reeling motors
- New class 5 timer tachometer bearings
- New stainless steel protective sleeves installed on tape lifter arms
- Complete power supply rebuild, including new filter capacitors, diodes and bridge rectifiers
- New power supply output transistors, tension arm drivers, new matched capstan and reeling motor driver transistors
- New AC Mains Switch
- New transport control, edit and reset switches
- Soft servo on tape threading modification
- Motherboard and input/output module grounding modification installed to reduce HF noise
- Installation of library spooling speed switch on the capstan servo board
- New, exact OEM vinyl wrist pad and end caps
- Complete preparation, painting and silk-screening of all exterior parts to perfect match of original Ampex factory colors and markings
- New OEM control unit overlays
- Reel turntables are surface machined to .001" lateral run-out
- New reel turntable high traction cork pads
- Pedestal stand refurbished, painted to OEM colors and equipped with new hardware
- Complete alignment, tuning and testing of your new ATR