

Remanufactured  
Ampex ATR-102  
1/2" Two-track



Alatronics, Boston  
Bluefield Mastering, Raleigh, NC  
**GRAMMY WINNER**  
Classic Sound Mastering & Scott Hull, NYC  
Dreamhire, NYC  
Emerald Entertainment, Nashville  
**GRAMMY WINNER**  
Eric Schilling (Gloria Estefan...), Miami, FL  
InnerCity Studios, Saskatchewan  
John McIntire, Chicago  
John Klett /Singularity Enterprises  
Looking Glass, NYC  
Purple Audio, NYC  
Sonic Circus, Boston  
Sony Music, NYC  
Sony Music, London, U.K.  
Sound Station 7, Providence  
Woolly Mammoth Sound, Boston  
+ plus many more

Many audio professionals believe that the ATR-100 is the finest analog tape recorder ever built. We concur! These machines were 20-30 years ahead of their time and their "sound" is legendary. They deliver tape handling, low flutter & audio performance which to this day have never been equaled by any other machine.

Like all the finest analog professional equipment, these machines are holding their value and unlike many European machines, ATR-100's are easily serviced and maintained. If you've been missing analog, then don't miss this opportunity to own a fully restored American Classic - not just a showpiece but a machine which will truly enhance the value of your facility - a machine you'll use for a long time to come.

**MDI** PrecisionMotorWorks

241 White Pond Rd., Hudson, Massachusetts 01749 U.S.A.  
Tel.: 978/562-4420 Fax: 978/568-1887  
www.PrecisionMotorWorks.com

## AMPEX ATR-100

### *The Ultimate Analog Audio Recorder.*

Fully remanufactured AMPEX ATR-100's are available from MDI PrecisionMotorWorks. The last tape recorder built in the U.S.A. by Ampex, these machines have been 100% restored in the way that only we can. Critical motion control & power supply components have been replaced, upgraded and/or modified to enhance reliability. These machines are delivered to you well behaved, sounding great, and looking like they just left they factory.

**XIRON™**  
Transformerless



"Extended response, vastly improved imaging and clarity - with the classic warmth and overall sound that AMPEX intended!"

#### Prices:

- 1/4" 2-Trk. is \$6,7495.00 w/O.E.M. heads-lapped
- 1/2" 2-Trk. is \$9,595.00 w/new EMC Long Life, Low Distortion Heads
- new 1" - 2 trk "**MASTERMONSTER**" - \$15,595.00

#### Some options:

- new XIRON™ transformerless I/O Modules: add \$750.00 (pair) w/ purchase of machine.
  - 25' Remote Control - \$495.00 limited availability
  - Single point Search-to-Cue - \$495.00 limited availability
  - Varispeed - \$795.00 Call for details
  - Ampex on-board Monitor Panel \$300.00 Call for details
- 120 day Parts & Labor warranty on electronics.  
1 full year on motors and most assemblies.  
F.O.B. Hudson, Massachusetts

If you already own one of these great machines  
Talk to us about a trade-in, ...or perhaps a rebuild?

Prices subject to change without notice. Please call for current prices.

**Just need parts?...We got 'em!**

# AMPEX ATR-100 series recorders

## Rebuild Menu & Parts Price List

### COSMETICS- O.E.M. COLORS& MATERIALS

Repainting & Touch-up (per request) . . . . .	\$ 65.00 per major panel or item
. . . . .	\$ 35.00 per minor item
• Refinish/Paint (Stand plus 8 major surfaces) . . . . .	\$ 315.00
• Armrest recovered . . . . .	\$ 65.00
Replacement armrest end caps ( machined from aluminum - Nice!) . . . . .	\$ 35.00 ea.
Replacement Head Cover . . . . .	\$175.00 (very limited qty.)

### FUNCTIONAL REBUILDS & REPLACEMENTS

• Full Transport Clean & Douche /paint . . . . .	\$245.00
The entire deck plate, including the head assembly & card cage, is stripped down and given a bath. Functional parts and hardware are replaced and/or lubricated & adjusted. Includes re-painting of the deck surround.	
• Capstan Motor Rebuild . . . . .	\$350.00
• Reel Motor Rebuild . . . . .	\$280.00 ea.
• Reel motor Turntables . . . . .	\$ 65.00 ea.
covered with new neoprene/cork composite & machined flat.	
Replacement NAB (VIF) Reel Holders . . . . .	\$ 37.50 ea.
• Rebuild Rotary Solenoids & Tension arm Assemblies . . . . .	\$ 150.00 ea. (rebuildable version)
. . . . .	\$ 265.00 ea. (early version - converted to rebuildable)
• Capstan w/Optical Encoder Assembly incl. trade-in of core . . . . .	\$ 365.00
• Timing Idler Assembly . . . . .	\$ 275.00
Above items covered with our proprietary, "red" high performance thermoplastic elastomer, precision ground & slit. Always tested for speed & flutter performance.	
Quartz/Pyrex Tape Lifter Sleeves (2) . . . . .	\$ 43.95
Bearings (626 ZZ A5) for rebuildable tape guides . . . . .	\$ 15.90 ea. (Prices may fluctuate)
Rebuild 1/4" Tape guide . . . . .	\$ 45.00 ea. non-rebuildable style will be discarded
Rebuild 1/2" Tape guide . . . . .	\$ 65.00 ea. non-rebuildable style will be discarded
Replacement 1/4" Tape Guide (2 per machine) . . . . .	\$130.00 ea.
Replacement 1/2" Tape Guide . . . . .	\$150.00 ea.
Class 5 bearings only are used in the roller guides. A 1/4" machine converted to 1/2" will require replacement tape guides. 1/4" guides may be worth 30.00 ea. in trade.	
• Rebuild O.E.M Scrape Flutter Filter . . . . .	\$ 90.00 plus parts as required
Replacement TFF Scrape Flutter Filter Set . . . . .	\$375.00
Optional Remote Control w/25 ft extension . . . . .	\$495.00 (very limited qty.)
Optional Single point Search-to-Cue w/25 ft extension . . . . .	\$495.00 limited quantity available.

### ELECTRONICS & "THE WORKS"

• Test all audio electronics, transport control & motion control electronics. . . . .	\$275.00 mandatory
All edge & harness connectors are cleaned and treated with a protectant/preservative (Cramolin™).	
• Rebuild the Power Supply . . . . .	\$ 425.00 mandatory
Includes new C.G. electrolytic capacitors & rectifiers throughout, with increased capacitance & current handling capacity. We do not like running these machines or even turning them on without a rebuilt supply. Some needed parts may be additional.	
• Rebuild the Capstan & Reel Control Electronics . . . . .	\$ 290.00 ea. mandatory
These cards and particularly the Reel Servo maybe the weakest links in the machine. The discreet PWM reel driver circuit is extremely "fussy". Failure can create serious problems. We employ a number of modifications which dramatically stabilize these critical circuits.	
Audio electronics, transport control repaired to OEM specifications - additional. . . . .	\$90.00/hr. plus Parts
We will test all of the electronics you send us. The audio portion of your deck is repaired only per your request.	
Xiron™ Transformerless I/O modules . . . . .	\$425.00 ea. w/ Trade-in of your OEM I/O's
30 day trial available - If you don't like em' we'll gladly take them back.	
Head Relapping . . . . .	\$Additional - by quotation
As required. We'll advise.	
"The Works": includes all items marked with * . . . . .	\$3,975.00
Includes 1 full year warranty on all motors and electromechanical assemblies & 120 days on all rebuilt electronics.	
Transportation & Destination charges . . . . .	\$ Additional - by quotation
Available Covered Skid & Hood for transportation to anywhere (reusable) . . . . .	Full: \$290.00

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### Capstan with Optical Encoder Assembly

A durable Thermoplastic Elastomer (TPE) drive surface provides excellent traction. Each carefully made part is guaranteed less than .025% din peak flutter @ 30 ips and typically less than .02% @ 30 ips measured on a carefully calibrated transport.

Part# ATR.C.TPE.70  
\$ 365.00 w/ Trade-in of old core.



### Timer Idler Assembly

Durable Thermoplastic Elastomer (TPE) covering. Guaranteed accuracy and concentricity and excellent timing accuracy. With Abec Class 5 bearings installed.

Part# ATR.TI.TPE.70  
\$ 275.00 w/ Trade-in of old core.



### Bearings

For rebuildable roller guides (626 ZZ A5)  
\$15.90 ea. (2 required for 1/2" tape)

### TPE Bearing

For outgoing roller guide. Individually ground and tested. Carefully maintaining concentricity is very important for optimal flutter performance. Guaranteed accuracy and concentricity.

\$69.00 ea. (2 required for 1/2" tape)



### Quartz/Pyrex Lifter Sleeves.

A proven product on early Ampex machines. Harder than chrome steel - virtually no wear! Each piece is centerless ground and polished for accurate tracking. Simple installation.

Part# ATR.100.LS.1  
\$ 43.95 per SET of 2



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## **AMPEX** ATR-100 Series - Audio Recorders

### Ampex ATR-100 Maintenance & Shop manual

Complete high quality copy on 28 lb. paper - Loose-leaf, 3-ring, hard cover bound like the original and taken from the latest version published. A must have for the ATR owner and an excellent study for anyone interested.

CD version only



### Replacement Control Panel Overlay for all Ampex ATR-100's.

The fastest, easiest way to give your machine a face lift. Instructions and everything you'll need for removal of the old panel and installation of the new are provided. Permanent factory colors on 25 mil LEXAN !

Part# ATR.CP.OL.4 Price:\$49.50



### TFF Scrape Flutter Filter Set for the Ampex ATR-100

- Extremely low coefficient of friction
  - Non-rotating
  - Adjustable azimuth
- "Shock mounted" - isolated elements
- No "low frequency" flutter component
- No low frequency noise or tone generation
  - Patent Pending

1/4" - 1/2" order# TFF.SFF.05  
\$375.00/pair



*Prices subject to change without notice. Please call for current prices.*

## Unsolicited customer feedback:

Subj: Re: Your ATR-102 - Shipping...  
Date: Tuesday, July 27, 1999 10:53:17 PM  
From: mcentire@csi.com  
To: PREMOWO@aol.com

Dear Jeff,

The ATR arrived today, safe and sound. I managed to get the crate off (thanks for doing such an excellent packing job), and everything looks great.

I won't have a chance to fire it up for several days, but I trust there is no reason to think anything would not be working properly.

My deepest thanks for your fine work. I will look forward to enjoying this machine for many years.

Best Regards,  
John McEntire

----- Headers -----

Return-Path: <mcentire@csi.com>  
Received: from aol.com (rly-yh05.mail.aol.com [172.18.147.37]) by air-yh04.mx.aol.com (v60.18) with ESMTTP; Tue, 27 Jul 1999 22:53:16 2000  
Received: from hpdmraaa.compuserve.com (dh-img-rel-1.compuserve.com [149.174.206.132]) by rly-yh05.mx.aol.com (v60.18) with ESMTTP; Tue, 27 Jul 1999 22:53:08 2000

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Subj: Re: ATR Shipment  
Date: Wednesday, September 22, 1999 10:01:04 AM  
From: laurence\_shear@sonymusic.com  
To: PREMOWO@aol.com  
cc: geoff\_atter@uk.sonymusic.com

Dear Jeff,

Thanks for all your assistance in getting the ATR-102 refurbished and shipped to England. The London installation is complete and I saw the unit on site. It looks great and I am told it is flat to 30K!

Our technician in London, Geoff Atter, would like to get the schematics for the SSI Input modules. Could you please send these to me or tell me where I can get them.

Thanks,  
Laurence.

----- Headers -----

Return-Path: <laurence\_shear@sonymusic.com>  
Received: from rly-yh05.mx.aol.com (rly-yh05.mail.aol.com [172.18.147.37]) by air-yh01.mail.aol.com (v60.28) with ESMTTP; Wed, 22 Sep 1999 10:01:04 -0400  
Received: from mail2.fw-sj.sony.com (mail2.fw-sj.sony.com [198.93.2.18]) by rly-yh05.mx.aol.com (v61.9) with ESMTTP; Wed, 22 Sep 1999 10:01:02 -0400

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