

GS 00S 54695
PROFESSIONAL MAGNETIC TAPE RECORDERS

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AUTHORIZED FEDERAL
SUPPLY SCHEDULE
PRICE LIST

CONTRACTOR:
AMPEX CORPORATION

FSC Group 58, Part III
Communication Equipment

CONTRACT NUMBER:
GS-OOS-54695

ITEMS NUMBER:

136-8

136-9

136-11

136-13

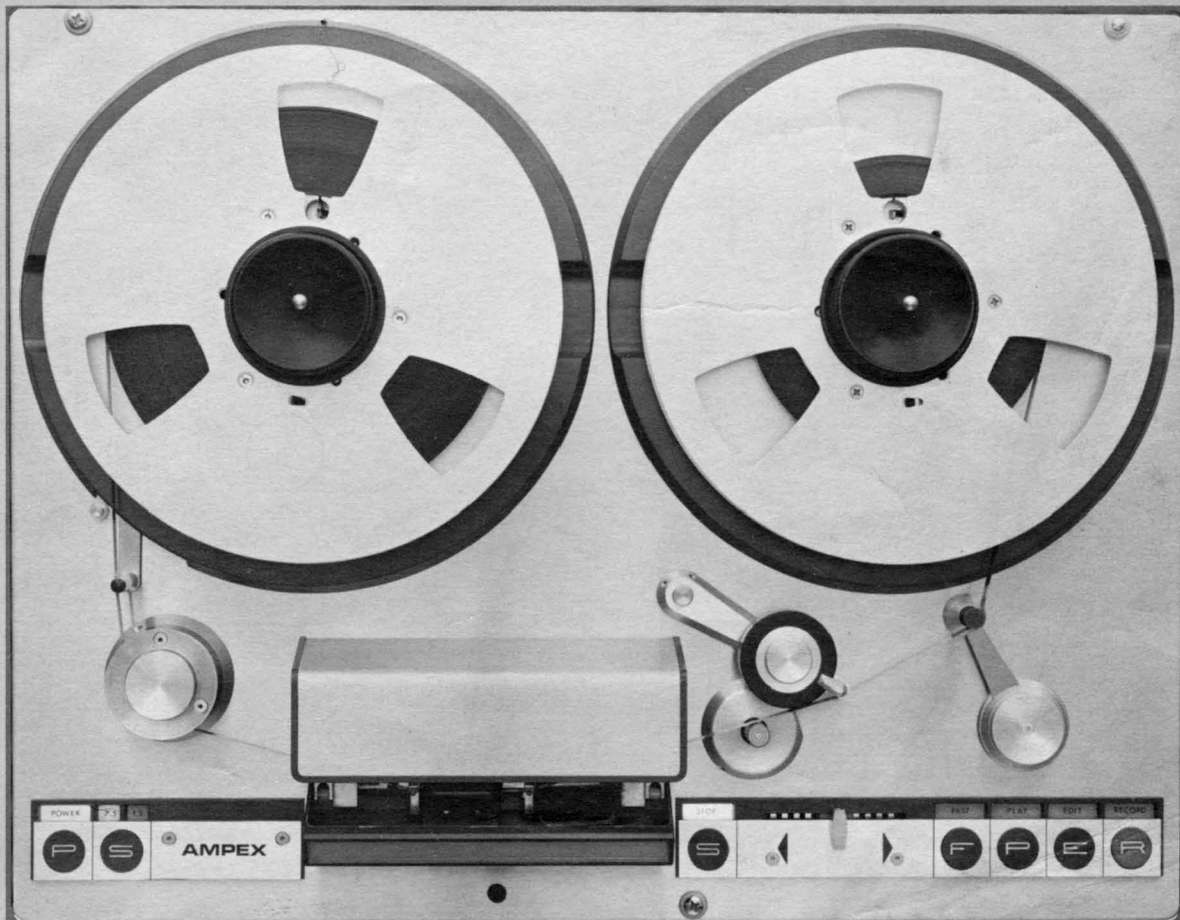
136-18

136-21

Period July 1, 1966
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General Services Administration
Federal Supply Service
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AMPEX



PROFESSIONAL MAGNETIC TAPE RECORDERS

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AV 770 RECORDER/REPRODUCER



AV 770
Tape Recorder/Reproducer
(Includes model 701 microphone
with desk stand and lavalier holder.)



Model 6505
Optional Microphone
Headset Combination

GSA Special Item 136-8

MODEL	VOLTS and CYCLES	SPEED(ips)	HEADS (Tracks)	SELLING PRICE TO GOVERNMENT	
				1 - 9	10+
AV 770	117 V	1 $\frac{7}{8}$, 3 $\frac{3}{4}$, 7 $\frac{1}{2}$	1/2 track	\$242.10 Microphone included	\$228.65

**AN EXTREMELY RELIABLE, GENERAL PURPOSE RECORDER
DESIGNED ESPECIALLY FOR INSTRUCTIONAL USE.**

General Description — half-track monophonic recording and playback; all solid state electronics; 3 speed, 1 $\frac{7}{8}$, 3 $\frac{3}{4}$ and 7 $\frac{1}{2}$ ips; portable with built-in speaker and amplifier; die-cast aluminum construction for precision alignment of critical parts. One year parts and labor warranty.

Dual Capstan Drive — most reliable tape drive system available.

Accurate VU Meters — record and playback each has its own separate meter for extremely accurate readings.

Electro-stop Pause Control — allows you to stop tape motion instantly during record or playback. Recorder instantly resumes play by pushing play lever forward.

Top-Mounted Jacks for Microphone and Instructor Headphones — allow easy access for operator. Instructor's phones remain active while recorder is in any mode of operation.

Use as a Public Address System — simply plug microphone into top input, pull volume control, and the AV 770 becomes a Public Address system.

Overall Frequency Response:	Signal-to-Noise: 7 $\frac{1}{2}$ ips 46 db
7 $\frac{1}{2}$ ips \pm 4 db, 50 to 15,000 cps	3 $\frac{3}{4}$ ips 43 db
Playback Frequency Response:	Speed Accuracy: 7 $\frac{1}{2}$ ips \pm 2%
7 $\frac{1}{2}$ ips \pm 3 db, 50 to 15,000 cps	3 $\frac{3}{4}$ ips \pm 3%
3 $\frac{3}{4}$ ips \pm 3 db, 50 to 8,000 cps	Flutter: 7 $\frac{1}{2}$ ips 0.15%
	3 $\frac{3}{4}$ ips 0.20%

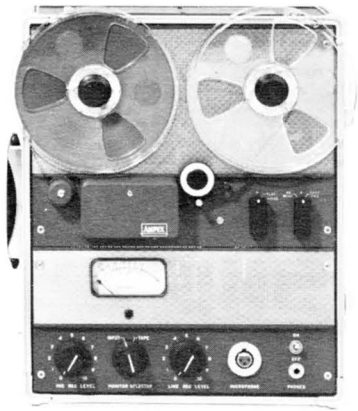
GSA Special Item 136-11

Accessory Microphone/Headset Combination Model 6505	SELLING PRICE TO GOVERNMENT	
	1- 11	12+
	\$31.50	\$27.00

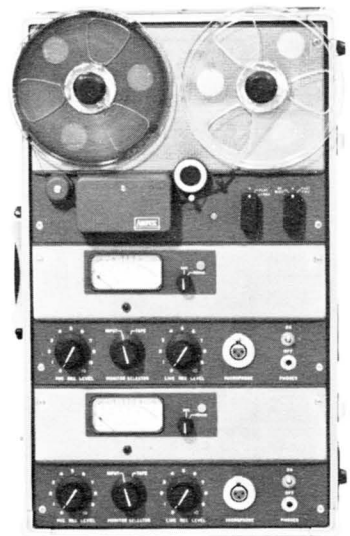
Model 6505 Microphone/Headset Combination — This lightweight, easily adjusted optional accessory is ideal for classroom use. The padded headset deadens external noises . . . closes out distractions and adds to listening comfort.



602 SERIES RECORDERS/REPRODUCERS



Model 602-1 Portable



Model 602-2 Portable



Model 622 Portable

GSA Special Item 136-9

MODEL	HEADS	SPEED (ips)	MOUNTING	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
					1	2 - 9	10 +
602-1 ONE CHANNEL (Mono) See note b.	FULL TRACK	7 1/2	Unmounted	4016021-01	546.25	534.75	517.50
			Portable	4016021-02	593.75	581.25	562.50
	HALF-TRACK	7 1/2	Unmounted	4016021-03	546.25	534.75	517.50
			Portable	4016021-04	593.75	581.25	562.50
			Portable	4016021-08	593.75	581.25	562.50
	602-2 TWO CHANNEL (Stereo) See note b.	TWO TRACK	7 1/2	Unmounted	4016023-01	755.25	739.35
Portable				4016023-02	831.25	813.75	787.50
Portable		4016023-04	831.25	813.75	787.50		
622 SPEAKER/AMPLIFIER			Portable	622	180.02	176.23	170.55

NOTES: a. Operation and Maintenance Manual furnished with each unit.
 b. All units listed are 117 V, 60 cycle, NAB equalization. For 50 cycle so specify, add \$12.00 per unit, and also specify NAB or CCIR equalization.

DESCRIPTION

Uses time-proven basic Ampex 600 transport design, but with new advancements and all new electronics. Can be rack mounted (with adaptor panels) for studio use. Individual mixing controls for mike and line inputs. Meters read directly all operating levels on each channel. Built-in low impedance mike transformer. Record/safe switch on each channel of 602-2 models. Hysteresis synchronous drive motor. DC filament for low noise. Model 622 speaker/amplifier is designed for use with any 602 recorder—monophonic or stereo. Has jack for external speaker.

SPECIFICATIONS

- FREQUENCY RESPONSE:** 40 to 15,000 cps, down no more than 4 db at 15,000; ±2 db from 40 to 10,000 at 7 1/2 ips. 3 3/4 ips model, +2 -4 from 40 to 8,000 cps.
- SIGNAL-TO-NOISE RATIO:** With full track head, over 57 db; with half-track, over 55 db; two track model, over 55 db (at 7 1/2 ips).
- FLUTTER/WOW** (by ASA Standards): Less than 0.17% at 7 1/2; less than 0.25% at 3 3/4 ips.
- TIMING ACCURACY:** ±0.2% at 7 1/2 ips (±3.6 seconds in 30 minute recording).
- INPUTS** (each channel): Low impedance mike input; line input. For Cannon XL connectors.
- OUTPUTS** (each channel): +4 dbm into 600 ohm, balanced or unbalanced load.
- REEL SIZE:** 7" and 5".
- POWER REQUIREMENTS:** Models for 117 v., 60 cps; 115/230 v., 50 cps. Model 602-1, 70 volt-amperes; Model 602-2, 105 volt-amperes.
- WEIGHT** (in case): 602-1, 28 lbs., 602-2, 42 lbs., 622, 25 lbs.

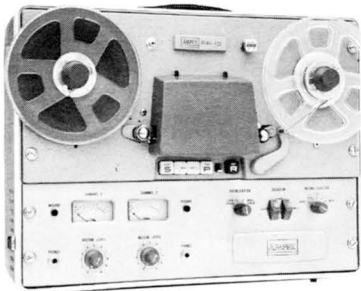
See accessories listed on page 13 and 14.

PR-10 SERIES RECORDERS/REPRODUCERS

GSA Special Item 136-9



Model PR-10-1 Portable



Model PR-10-2 Portable



Model PR-10-4 Portable

If microphones are to be used with PR-10-2 or PR-10-4, plug-in microphone pre-amps or MX-10 mixer should be used. See accessory page for information and description.

MODEL	HEADS	SPEED (ips) AND EQUALIZATION	MOUNTING	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT					
					1	2-9	10+			
PR-10-1 ONE CHANNEL, One or two track	FULL TRACK	7½ and 15 NAB	Unmounted	96001-09	992.75	971.85	940.50			
			Portable	96001-35	1068.75	1046.25	1012.50			
	TWO TRACK (note b.)		Unmounted	96001-01	992.75	971.85	940.50			
			Portable	96001-33	1068.75	1046.25	1012.50			
	FULL TRACK		3¾ and 7½ NAB	Unmounted	96001-11	992.75	971.85	940.50		
				Portable	96001-36	1068.75	1046.25	1012.50		
	TWO TRACK (note b.)	Unmounted		96001-03	992.75	971.85	940.50			
		Portable		96001-34	1068.75	1046.25	1012.50			
	FULL TRACK Multi-volt 50 cps	7½ & 15 CCIR		Unmounted	96001-18	1040.25	1018.35	985.50		
				Unmounted	96001-17	1040.25	1018.35	985.50		
			Unmounted	96001-40	1040.25	1018.35	985.50			
	PR-10-2 TWO CHANNEL, Two track	TWO TRACK	7½ and 15 NAB	Unmounted	96000-01	1182.75	1157.85	1120.50		
Portable				96000-17	1258.75	1232.25	1192.50			
TWO TRACK		3¾ 7½ NAB	Unmounted	96000-03	1182.75	1157.85	1120.50			
			Portable	96000-18	1258.75	1232.25	1192.50			
TWO TRACK Multi-volt 50 cps		7½ & 15 CCIR 7½ & 15 NAB 3¾ & 7½ NAB	Unmounted	96000-02	1230.25	1204.35	1165.50			
			Unmounted	96000-09	1230.25	1204.35	1165.50			
			Unmounted	96000-04	1230.25	1204.35	1165.50			
			PR-10-4 TWO CHANNEL, Four track	FOUR TRACK	3¾ 7½ NAB	Unmounted	4018004-01	1230.25	1204.35	1165.50
						Portable	4018004-03	1306.25	1278.75	1237.50
FOUR TRACK Multi-volt 50 cps	3¾ 7½ NAB	Unmounted	4018004-06	1277.75	1250.85	1210.50				
		Portable	4018004-08	1353.75	1325.25	1282.50				
Four-track playback head is available installed on any PR-10-2, complete with integral switch to select playback from two-track or four-track playback head.					95.00	93.00	90.00			

NOTES: a. All models are 117 V, 60 cps, NAB equalization, ¼" tape width unless otherwise noted.
 b. Two-track heads are used in place of half-track to permit later conversion to two-channel, two-track stereo without changing heads.
 c. PR-10-4 includes four 2-channel heads: 4-track erase, 4-track record, 4-track playback, and 2-track playback, with playback head selector switch.

DESCRIPTION

The tape transport features an exclusive electro-dynamic clutch system providing fast, gentle starts and stops. Low operating and braking tensions permit the use of half-mil tapes. All modes of the PR-10 can be operated by remote control for true studio flexibility. Large, continuous duty hysteresis synchronous motor for timing accuracy. Compact electronics include record/safe, A-B monitor switches; all frequently used electronic alignment controls are accessible through front panel door. The PR-10 and PR-10-2 are equipped with separate erase, record, playback heads; plus an extra position for optional 4-track stereo playback or special needs. The PR-10-4 has four heads: 4-track erase, 4-track record, 4-track play, and 2-track play. Selector on PR-10-2 and PR-10-4 permits mono, stereo, parallel track and sound-on-sound recording.

SPECIFICATIONS

FREQUENCY RESPONSE: 30-15,000 cps ±2 db at 15 ips; 40-12,000 cps ±2 db at 7½ ips; 40-8,000 cps ±2 db at 3¾ ips.
SIGNAL-TO-NOISE RATIO: 55 db at 15 and 7½ ips; 50 db at 3¾ ips.
 PR-10-4 better than 55 db at 3¾ and 7½ ips.
FLUTTER/WOW (by ASA Standards): Less than 0.15% rms at 15 ips; less than 0.18% rms at 7½ ips; less than 0.25% rms at 3¾ ips.
TIMING ACCURACY: Within 0.25% at 15 and 7½ ips; within 0.40% at 3¾ ips.
REEL SIZE: Up to 7".
OUTPUTS: ±4 dbm into 600 ohm balanced or unbalanced load. Cannon XL connectors. Single and two-channel headphone jacks provided.
INPUT: PR-10-1: low impedance mike and unbalanced bridging (use plug-in mike preamps or line transformers); PR-10-2: two unbalanced bridging (use plug-in mike preamps, line transformers or MX-10 mixer).
POWER REQUIREMENTS: 117 volts, 60 cps, 1.84 amp (215 watts).
RACK SPACE: Transport: 8¾"; Electronics; 5¼"
WEIGHT: Unmounted 44 lbs. Portable 53 lbs.

See accessories listed on page 13 and 14.

GSA Special Item 136-9



AG-350-1 Console



AG-350-2 Console

MODEL	HEADS	SPEEDS	MOUNTING	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
					1	2 - 9	10 or
MONO AG-350	FULL	7½ - 15	Unmounted	4010035-01	1662.50	1627.50	1575.00
			Portable	4010035-05	1776.50	1739.10	1683.00
			Console	4010035-03	1971.25	1929.75	1867.50
	FULL	3¾ - 7½	Unmounted	4010035-13	1662.50	1627.50	1575.00
			Portable	4010035-17	1776.50	1739.10	1683.00
			Console	4010035-15	1971.25	1929.75	1867.50
HALF	7½ - 15	Unmounted	4010035-07	1662.50	1627.50	1575.00	
		Unmounted	4010035-19	1662.50	1627.50	1575.00	
STEREO AG-350-2	TWO	7½ - 15	Unmounted	4010036-01	2227.75	2180.85	2110.50
			Portable	4010036-05	2351.25	2301.75	2227.50
			Console	4010036-03	2536.50	2483.10	2403.00
	TWO	3¾ - 7½	Unmounted	4010036-07	2227.75	2180.85	2110.50
			Portable	4010036-11	2351.25	2301.75	2227.50
			Console	4010036-09	2536.50	2483.10	2403.00
	TWO-CH. with 4th Pos. Head	7½ - 15	Unmounted	4010036-13	2275.25	2227.35	2155.50
			Unmounted	4010036-19	2275.25	2227.35	2155.50
		3¾ - 7½	Console	4010036-15	2584.00	2529.60	2448.00
			Console	4010036-21	2584.00	2529.60	2448.00

NOTES: a. All units listed are 117 v, 60 cps. For 50 cps, so specify. Prices are the same.
b. All units are ¼" tape width, NAB equalization. If CCR equalization is desired, so specify. Prices are the same.

DESCRIPTION

Designed to sustain professional quality over a long life of continuous duty. Fully solid state electronics. Plug-in transistors. Three motors, including two torque motors and heavy-duty hysteresis synchronous direct drive motor. Pushbutton, relay-solenoid operation permits using optional full-remote, plug-in control. Individual electronics panel for each channel. Large VU meter has selector: reads input, tape level, bias and erase current. Separate record and play electronics permit monitoring while recording. Dual speed models, 7½-15 ips or 3¾-7½ ips. Equalization automatically changed by speed switch.

SPECIFICATIONS

FREQUENCY RESPONSE: 15 ips: ±2 db 30-18,000; 7½ ips: ±2 db 40-10,000 (±4 db 30-15,000); 3¾ ips: ±2 db 50-7,500.

SIGNAL-TO-NOISE-RATIO: 15 and 7½ ips: Full track, 60 db; half-track and 2-track, 55 db; 3¾ ips: Full track, 50 db; half-track and 2-track, 50 db.

FLUTTER/WOW: (by ASA Standards): 15 ips: well below 0.11%; 7½ ips: well below 0.14%; 3¾ ips: well below 0.18%.

TIMING ACCURACY: 0.2% (±3.6 seconds in 30 minutes).

INPUTS: AG-350, unbalanced bridge; low impedance mike, or balanced by accessory plug-in mike pre-amp or transformer.

OUTPUT: ±8 dbm into 600 ohm, balanced or unbalanced.

REEL SIZE: Up to and including 10½ inches.

RACK SPACE AND WEIGHT: Transport: 15¾" rack space, 50 lbs.
Electronics: AG-350, 5¼" rack space, 19 lbs. ea.

POWER REQUIREMENTS: Single channel models: 2.0 amperes current; two channel: 2.5 amperes. 117 V., 60 cps.

See accessories listed on page 13 and 14.



AG-355-1 Console

GSA Special Item 136-21

MODEL	SPEED (IPS) NAB	HEADS (tracks)	MOUNTING	ORDER BY CATALOG NUMBER		SELLING PRICE TO GOVERNMENT		
				117 Volt 60 cycle	117 Volt 50 cycle	1	2 - 9	10+
AG-355-1 Single-Channel	7 1/2-15 NAB	FULL	Unmounted	4010037-01	4010037-02	1,258.75	1,232.25	1,192.50
			Console	4010037-03	4010037-04	1,567.50	1,534.50	1,485.00
	HALF	Unmounted	4010037-07	4010037-08	1,258.75	1,232.25	1,192.50	
		Console	4010037-09	4010037-10	1,567.50	1,534.50	1,485.00	
Monophonic	3 3/4-7 1/2 NAB	FULL	Unmounted	4010037-13	4010037-14	1,258.75	1,232.25	1,192.50
			Console	4010037-15	4010037-16	1,567.50	1,534.50	1,485.00
	HALF	Unmounted	4010037-19	4010037-20	1,258.75	1,232.25	1,192.50	
		Console	4010037-21	4010037-22	1,567.50	1,534.50	1,485.00	
AG-355-2 Two-Channel	7 1/2-15 NAB	TWO TRACK	Unmounted	4010038-13	4010038-14	1,448.75	1,418.25	1,372.50
			Console	4010038-15	4010038-16	1,757.50	1,720.50	1,665.00
	TWO AND FOUR TRACK	Unmounted	4010038-01	4010038-02	1,515.25	1,483.35	1,435.50	
		Console	4010038-03	4010038-04	1,824.00	1,785.60	1,728.00	
	3 3/4-7 1/2 NAB	TWO TRACK	Unmounted	4010038-19	4010038-20	1,448.75	1,418.25	1,372.50
			Console	4010038-21	4010038-22	1,757.50	1,720.50	1,665.00
Stereo	3 3/4-7 1/2 NAB	TWO AND FOUR TRACK	Unmounted	4010038-07	4010038-08	1,515.25	1,483.35	1,435.50
			Console	4010038-09	4010038-10	1,824.00	1,785.60	1,728.00
Special Item 136-11 Accessories				PART NUMBER		PRICE TO GOVERNMENT		
AG-350/AG-355 operations and maintenance manual				4890161-02		\$ 9.50		
Head Demagnetizer				4040575-30		9.45		
Head cleaner fluid, 4-oz. can				087-007		1.38		
Lubricating oil, in plastic oiler bottle				4010825-02		1.71		

DESCRIPTION

Designed to sustain professional quality over a long life of continuous duty. Fully solid state electronics. Plug-in transistors. Three motors, including two torque motors and heavy-duty hysteresis synchronous direct drive motor. Pushbutton, relay-solenoid operation permits using optional full-remote, plug-in control. Individual electronics panel for each channel. Large VU meter. Dual speed models, 7 1/2-15 ips or 3 3/4-7 1/2 ips. Equalization automatically changed by speed switch.

SPECIFICATIONS

FREQUENCY RESPONSE: 15 ips: ±2 db 30-18,000; 7 1/2 ips: ±2 db 40-10,000 (±4 db 30-15,000); 3 3/4 ips: ±2 db 50-7,500.

SIGNAL-TO-NOISE-RATIO: 15 and 7 1/2 ips: Full track, 60 db; half-track and 2-track, 55 db; 3 3/4 ips: Full track, 50 db; half-track and 2-track, 50 db.

FLUTTER/WOW: (by ASA Standards): 15 ips: well below 0.11%; 7 1/2 ips: well below 0.14%; 3 3/4 ips: well below 0.18%.

TIMING ACCURACY: 0.2% (±3.6 seconds in 30 minutes).

OUTPUT: ±8 dbm into 600 ohm, balanced or unbalanced.

REEL SIZE: Up to and including 10 1/2 inches.

RACK SPACE AND WEIGHT: Transport: 15 3/4" rack space, 50 lbs.
Electronics: AG-355, 5 1/4" rack space, 15 lbs. single channel,
20 lbs. 2 channels.

POWER REQUIREMENTS: Single channel models: 2.0 amperes current; two channel: 2.5 amperes. 117 V., 60 cps.

See accessories listed on page 13 and 14.

AG-300 SERIES MASTER RECORDER/REPRODUCER



AG-300-2 Master Recorder

GSA Special Item 136-9

MODEL	SPEED (IPS) NAB	HEADS (tracks)	MOUNTING	ORDER BY CATALOG NUMBER		SELLING PRICE TO GOVERNMENT		
				117 Volt 60 cycle	117 Volt 50 cycle	1	2 - 9	10+
AG-300-1 1/4" Tape	7 1/2 - 15	Full	Unmounted Console	4010051-01	4010051-02	2,498.50	2,445.90	2,367.00
		Half	Console	4010051-03	4010051-04	2,926.00	2,864.40	2,772.00
	Full	Console	4010051-07	—	2,926.00	2,864.40	2,772.00	
AG-300-2 1/4" Tape	7 1/2 - 15	Two	Unmounted Console	4010052-01	4010052-02	3,068.50	3,003.90	2,907.00
		Two	Console	4010052-03	4010052-04	3,496.00	3,422.40	3,312.00
	3 3/4 - 7 1/2	Two	Console	4010052-07	4010052-08	3,496.00	3,422.40	3,312.00
		Two	Console	4010052-11	4010052-12	3,496.00	3,422.40	3,312.00
AG-300-3 1/2" Tape	7 1/2 - 15	Three	Console	4010053-03	—	4,493.50	4,398.90	4,257.00
AG-300-3 1/2" Tape Sel Sync	7 1/2 - 15	Three	Unmounted Console	4010053-09	4010053-10	4,161.00	4,073.40	3,942.00
		Three	Console	4010053-11	4010053-12	4,826.00	4,724.40	4,572.00
AG-300-4 1/2" Tape Sel Sync	7 1/2 - 15	Four	Unmounted Console	4010054-09	4010054-10	4,835.50	4,733.70	4,581.00
		Four	Console	4010054-11	4010054-12	5,500.50	5,384.70	5,211.00
AG-300-4 1/2" Tape	7 1/2 - 15	Four	Console	4010054-15	4010054-16	5,500.50	5,384.70	5,211.00
		Four	Console	4010054-03	—	5,073.00	4,966.20	4,806.00

- NOTES:**
1. Above items may be intermixed with other Item 136-9, 136-18, or 136-21 units to obtain minimum quantity price on a single order.
 2. All units are NAB equalization.
 3. One operation and maintenance manual is supplied with each Recorder at no extra charge.

DESCRIPTION

The 100% solid state circuitry is newly designed and takes maximum advantage of the capabilities and reliability inherent in transistors. High performance and reliability are the keystones of this master recorder. Available in single or multi-channel models and a variety of mounting types. Uses three heavy-duty precision motors for positive starts and stops and exceptional timing accuracy. Optional Sel-Sync[®] feature provides switching to convert any of the recording heads to serve as a temporary playback head while others are still recording.

SPECIFICATIONS

FREQUENCY RESPONSE:

15 ips ± 2 db 30 - 18,000 cps
 7 1/2 ips ± 2 db 40 - 10,000 cps
 +2 - 4 db 30 - 15,000 cps

SIGNAL-TO-NOISE RATIO:

Peak record level to unweighted noise (db) 7 1/2 or 15 ips. 60 db—full track 1/4" and 3 track 1/2"; 57 db—2 track 1/4" and 4 track 1/2". Peak record level defined as highest level at which overall (input to output) total rms harmonic distortion does not exceed 3% when measured on 400 cycle tone. Noise is measured when erasing signal of peak recording level in absence of new signal. Thus, bias and erase noise are included as well as playback amplifier noise. All frequencies measured from 50-15,000 cycles.

FLUTTER AND WOW:

15 ips—less than .07% rms; 7 1/2 ips—less than .14%. Measured in accordance with ASA Z57.1 - 1954 standard, measuring all frequencies between 0-250 cps.

PHASING:

All channels in phase when simultaneously recording and playing back a mid-frequency range test signal.

CROSS TALK REJECTION:

50 db on standard Multi-Channel models at 500 cycles.

STARTING TIME:

To full speed: 1/10 sec. for 1/4" tape
 1/2 sec. for 1/2" tape

STOPPING TIME:

15 ips -2" of tape past heads
 7 1/2 ips -1" of tape past heads

TIME ACCURACY:

0.2% or ± 3.6 sec. for 30 min. recording

REWIND TIME:

1 min. approx. for full 10 1/2" reel (2400 ft.)

CONTROLS:

Stop, Start, Record—push button, relay operated; remote control optional. Normal Play, Fast Forward, Rewind—on selector switch which may be changed from one model to another without stopping in between. Multi-Channel recorders have separate button on electronics panel that energizes record relay for that channel only. Relay drops out when Stop button is depressed. Operation of Record button on tape transport actuates record relays on all channels.

MONITORING:

Independent record and playback systems allow tape to be monitored while recording.

EQUALIZATION:

All standard models supplied with NAB equalization. CCIR curves available on special order.

RECORD INPUT:

100k bridging—18 dbm to produce recommended operating level.

PLAYBACK OUTPUT:

+8 dbm into 600 ohms—restrappable for +4 dbm output, balanced or unbalanced. Maximum of +28 dbm before clipping.

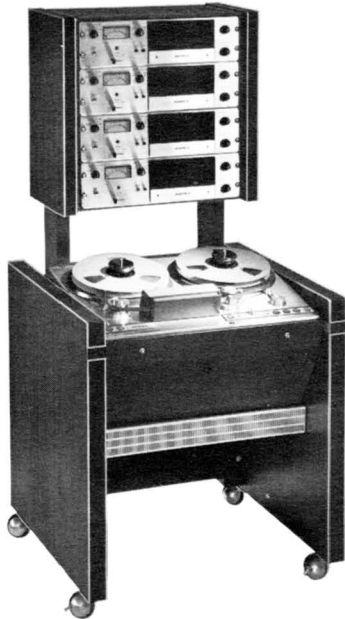
POWER INPUT REQUIRED:

117 volts, 60 cycles (also available for 50 cycles). Single channel recorders require 2.5 amperes, add 0.15 amperes for each additional channel.

See accessories listed on page 13 and 14.

MR-70 SERIES MASTER RECORDERS/REPRODUCERS

GSA Special Item 136-9



MR-70-4 Master Recorder

TAPE WIDTH NO. CHANNELS	PLAYBACK HEAD AZIMUTH	SPEEDS*	MOUNTING	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT	
					1	2+
¼ inch one channel	Variable	7½-15	Unmounted	4017011-01	3884.85	3804.75
			Console	4017011-03	4277.70	4189.50
	Fixed		Unmounted	4017011-05	3928.50	3847.50
			Console	4017011-07	4321.35	4232.25
¼ inch two channel	Variable	7½-15	Unmounted	4017012-01	5019.75	4916.25
			Console	4017012-03	5456.25	5343.75
	Fixed		Unmounted	4017012-05	5062.50	4959.00
			Console	4017012-07	5499.90	5386.50
½ inch two channel	Fixed	7½-15	Unmounted	4017012-17	5194.35	5087.25
			Console	4017012-19	5630.85	5514.75
½ inch three channel	Variable	7½-15	Unmounted	4017013-01	6067.35	5942.25
			Console	4017013-03	6678.45	6540.75
	Fixed		Unmounted	4017013-05	6111.00	5985.00
			Console	4017013-07	6722.10	6583.50
1 inch three channel	Fixed	7½-15	Unmounted	4017013-17	6285.60	6156.00
			Console	4017013-19	6896.70	6754.50
½ inch four channel	Variable	7½-15	Unmounted	4017014-01	7202.25	7053.75
			Console	4017014-03	7813.35	7652.25
	Fixed		Unmounted	4017014-05	7245.90	7096.50
			Console	4017014-07	7857.00	7695.00
1 inch four channel	Fixed	7½-15	Unmounted	4017014-17	7420.50	7267.50
			Console	4017014-19	8031.60	7866.00

* All catalog numbers shown are for 7½-15 ips, 60 cycle. For 15-30 ips models or 50 cycle, please specify when ordering.

DESCRIPTION

Engineered and designed specifically for the master recording industry. Major design innovations have provided significant advances in electric and mechanical performance: (1) with today's low noise tapes, an improvement in broadband (20 cps to 15 kc) signal-to-noise ratio of 10 db is realized over previous specifications, (2) major reduction in electronic distortion, (3) built-in capability for still higher performance with future tape improvements, (4) greatly improved tape motion, (5) maximum reliability through use of industrial/military grade nuvistors, (6) fully compatible with other ¼ inch and ½ inch Ampex recorders, (7) human-engineered for easy loading and editing. See MR-70 Product Brochure for complete information on features and specifications: (Lit. #2162)

SPECIFICATIONS

Reel Size: 11½" maximum, EIA, NAB or CCIR reels, or hubs; CCIR reel adaptors available.

Input: 20K ohms unbalanced convertible to 20K ohms balanced with the addition of a plug-in bridging transformer. Will accept line levels from -20 to +12 vu.

Output: Strappable for 150 or 600 ohms, balanced or unbalanced, with nominal line levels of +4 vu or +8 vu.

Overall Frequency Response:

15 ips NAB ±1 db 50 cps to 14 kc, ±2 db 30 cps to 20 kc.

7½ ips NAB ±1 db 50 cps to 12 kc, ±2 db 40 cps to 15 kc.

30 ips (17.5 microseconds) full track heads ±1 db 50 cps to 20 kc.

30 ips (17.5 microseconds) multi-track heads ±1 db 100 cps to 20 kc, ±2 db 50 cps to 20 kc.

Flutter and Wow: 15 ips less than 0.05% rms; 7½ ips less than 0.08% rms; 30 ips less than 0.05% rms.

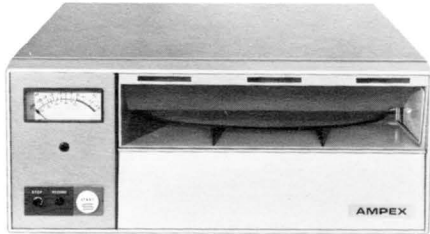
Timing Accuracy: Better than ±0.15%.

Power Requirements: Universal voltage transformer; strappable for 115 volts or 230 volts; adjustable by switch for ±12 volts providing nominal voltages of 103, 115, 127, 218, 230 or 242. Versions for 50 or 60 cps available.

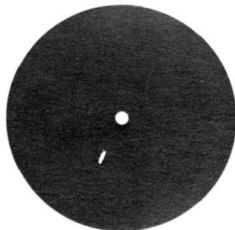
See accessories listed on page 13 and 14.

AG-100 SERIES MAGNETIC MAT RECORDERS

GSA Special Item 136-9



AG-100 Cue-matic



Cue-mat



Cue-mat file case

MODEL	HEADS	MOUNTING	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
				1	2 - 9	10 +
AG-100 Rec/Rep	Mono	Cabinet	4010039-01	1325.25	1297.35	1255.50
AG-105 Rep Only	Mono	Cabinet	4010039-02	1087.75	1064.85	1030.50

DESCRIPTION

A brand new concept in the magnetic recording and reproducing of audio frequencies. Specifically designed for radio station "spot" messages, and other applications requiring short recording time, fast cueing and ease of handling. The recording medium is a mat revolving at 12 rpm, made of .003 inch Mylar coated with a specially formulated magnetic oxide. Maximum playing time per mat is three minutes, 45 seconds. Quick, automatic cueing for both recording and playback modes. A low cost recording medium that is extremely simple to operate and highly reliable. Provides broadcast quality results in recording and reproducing voice and music. All solid state circuitry. Most used electronic adjustments can be made from the front.

SPECIFICATIONS

MECHANICAL

Recording and Playing Time: 3 minutes, 45 seconds.

Magnetic Disc: 3 mil Mylar, 11¼-inch diameter.

Turntable Speed: 12 rpm.

Disc to Head Speed: Varies from approximately 7½ ips at outside of disc to 3½ ips at inside.

Timing Accuracy: ±0.2%.

Flutter and Wow: Not more than 0.15% rms measured to ASA standard.

Start Time: Reaches stable speed in approximately 0.1 second.

Stop Time: Less than 0.3 second in record mode after the start of the 30 cps control tone.

Cueing Time: Maximum of 5 seconds.

ELECTRONIC

Frequency Response: First Minute: ±3 db 70 to 12,000 cps. Response is measured with recording made at least 10 db below the normal operating level of +4 dbm.

Signal-to-noise Ratio: 50 db measured from the peak record level of +10 dbm.

Input Impedance: 100,000 ohms, unbalanced. Facilities provided for balancing transformer and microphone preamp. Microphone input 50 to 200 ohms.

Output Impedance: Drives 600 ohm line, balanced or unbalanced.

Output Level: +4 dbm.

Bias Frequency: Nominal 100,000 cps with less than 1% second harmonic distortion.

GSA Special Item 136-11

CUE-MAT* Magnetic Recording Mat for AG-100 Series

The Ampex CUE-MAT is an 11¼ inch diameter, 3 mil polyester magnetic mat which is coated with a specially developed random oriented magnetic formulation. It maintains all the broadcast quality sound requirements and durability of tape, and can be erased quickly by bulk erasing methods. Mats are packed 50 to a box . . . one pressure sensitive label is included for each mat. (Labels are easily removable.)

ITEM	ORDER BY CATALOG NUMBER	GOVERNMENT PRICE	
		50-250	250 or more
CUE-MAT	672-EGLL JY	43¢ ea.	38¢ ea.
FILE CASE	4010045-01	18.53	

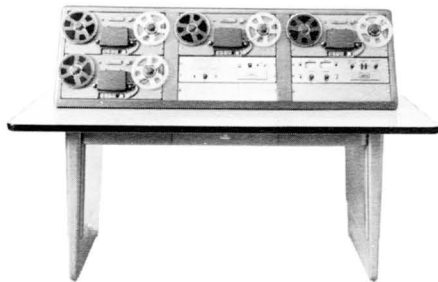
* TM of Ampex Corporation for Magnetic Mat Recorder.

Accessory File Case

An accessory file case is available which provides a convenient index and file system for 100 to 200 mats. Case includes 100 dividers.

See accessories listed on page 13 and 14.

3000 SERIES / PD-10 SERIES TAPE DUPLICATOR SYSTEMS



PD-10 Tape Duplicator

GSA Special Item 136-18

**PD-10 MONO/STEREO
TAPE DUPLICATOR SYSTEM**

MODEL	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
		1	2-9	10+
PD-10 duplicating system consists of master reproducer and three duplicating recorders, capable of producing simultaneously three copies of half-track or two-channel, or two-track stereo tapes. Duplicates at either 7½ or 15 ips. Will also record one to three master tapes simultaneously.	01-0028-30	3673.50	3555.00	3555.00

NOTES: a. For 50 cps version, add \$95.00 and so specify.
b. Operation and Maintenance Manual furnished with system at no additional cost.

ACCESSORIES (Item 136-11)	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
		1	2-4	5 or more
Table top cabinet, houses complete PD-10 system	01-0031-10	209.00	209.00	209.00

DESCRIPTION

A complete tape duplicating system. Simple to operate... a non-technical user can produce professional-quality tape copies at the rate of over seventy-five 1200-foot reels in an eight-hour day (over 18,000 copies a year). Complete system consists of: one master reproducer transport, three slave recorder transports, one dual-channel electronics unit, one master-control unit, and necessary interconnecting cabling. Independent track selection permits recording or duplicating language masters. Accessory table top cabinet provides efficient slant-mounting for complete system, for placement on ordinary office table.

SPECIFICATIONS

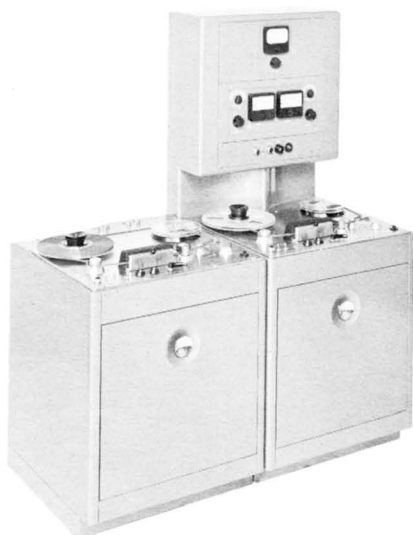
SPEEDS: System duplicates master tapes recorded at 1⅞, 3¾, 7½ and 15 ips. PD-10 transports operate at 7½ and 15 ips. Duplicating time for 1200-foot tape at 15 ips is 16 minutes. Rewind time 90 seconds for 1200 feet.

TAPE/REELS: ¼" tape width, 5 and 7 inch diameter reels.

FREQUENCY RESPONSE: Maximum deviation of 7½ ips copies from master tape, +2 -4 db, 50 to 15,000 cps; 3¾ ips copies, 50 to 7,500.

SIGNAL-TO-NOISE: Will not introduce more than 3 db noise on duplicates.

FLUTTER/WOW: Will not introduce more than 0.25% rms in duplicates.



3000 Series Tape Duplicator

GSA Special Item 136-18

**3000 SERIES HIGH SPEED
TAPE DUPLICATOR SYSTEM UNITS**

MODEL	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
		1	2-9	10+
3201-C MASTER PLAYBACK UNIT, with master control	16295-03	4702.50	4603.50	4455.00
3202-C SLAVE RECORDER UNIT	16294-03	2422.50	2371.50	2295.00
3302-C SLAVE RECORDER UNIT for 4-track tapes	30636-01	2636.25	2580.75	2497.50

NOTES: a. All units listed are 60 cps. For 50 cps, so specify. Prices are the same.
b. Operation and Maintenance Manual furnished with each unit at no additional charge.

DESCRIPTION

High speed, high quality duplication in single or mass production runs. Master unit contains master playback transport, master amplifier panel, master bias oscillator, master control panel. Master unit and slaves equipped with full controls. Simultaneous control of all slaves from master panel. Any slave may be stopped or started during duplication without affecting operation of others. All operations are meter-monitored. Master unit will drive from one to ten slave recorder units. Slaves can be added at any time, up to maximum of ten. 3200 models duplicate full-track, half-track and dual half-track tapes (duplication of stereo tapes requires optional in-line heads). Simultaneous duplication of both tracks of dual half-track tapes.

SPECIFICATIONS

SPEEDS: Two speed, 60 and 30 ips.

TAPE/REELS: ¼" tape width, all size reels to 14".

FREQUENCY RESPONSE: ±2 db, 50-15,000 cps on 7½ ips duplicates made from either 7½ or 15 ips masters.

SIGNAL-TO-NOISE: No more than 3 db degradation from master, in 7½ ips duplicates.

FLUTTER/WOW: No more than 0.1% degradation from master.

See accessories listed on page 13 and 14.

CL-10 SERIES / GS-80 SERIES RECORDERS/REPRODUCERS



CL-10 Communications Logging Recorder/Reproducer

See accessories listed on page 13 and 14.

GSA Special Item 136-9

CL-10 COMMUNICATIONS LOGGING RECORDER

MODEL	HEADS	SPEED	MOUNTING	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
					1	2-9	10+
CL-10 Two-channel 60 cps. 117 volt	Four Track*	15/16 and 1 7/8 ips	Unmounted	4018002-01	1182.75	1157.85	1120.50
			Portable	4018002-03	1258.75	1232.25	1192.50
CL-10 Two-channel 50 cps. Multi-volt			Unmounted	4018002-06	1230.25	1204.35	1165.50
			Portable	4018002-08	1306.25	1278.75	1237.50
CL-10-44 4 Chan. 60 cps. 117 volt	Four Tracks† (1, 2, 3, 4)	1 5/16 and 1 7/8	Unmounted	4018006-01	1895.25	1855.35	1795.50
			Portable	4018006-03	2018.75	1976.25	1912.50

* HEADS: Four-track heads, recording tracks 1 and 3 in forward direction and 2 and 4 by transposing reels, thereby doubling time capacity of tape reel.

† Records all four tracks simultaneously in one direction.

DESCRIPTION

Two-channel slow-speed recorder built for reliability and long life under heavy and continuous use. Keeps an accurate, permanent log of voice communications. Ideally suited for military communications, conferences, air traffic control, city, county governments for police and fire departments and ambulance dispatch and report.

SPECIFICATIONS

FREQUENCY RESPONSE: 200-3,000 cps ± 3 db at 1 5/16 ips. 200-5,000 cps ± 3 db at 1 7/8.

SIGNAL-TO-NOISE: 40 db at 1 5/16 and 1 7/8 ips (60 cps).

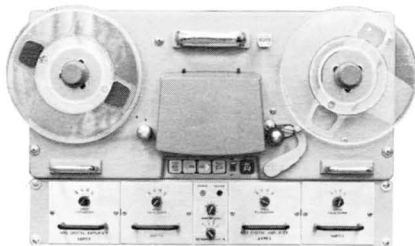
OUTPUT: +4 dbm into 600 ohm balanced or unbalanced load. XL Connectors.

INPUTS: Two, one for each channel. Both are unbalanced bridging with provision for plug-in transformer or low impedance microphone preamps.

COUNTER: 4-digit resettable.

WEIGHT: Unmounted, 44 lbs.; in portable case, 53 lbs.

SOLID STATE



GS-80 Communications Recorder/Reproducer (Audio or Digital)

See accessories listed on page 13 and 14.

GSA Special Item 136-9

GS-80 SERIES COMMUNICATIONS RECORDER (Audio or Digital)

DESCRIPTION	TYPE OF ELECTRONICS	TAPE SPEEDS (ips)	LINE FREQUENCY	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT					
					1-9	10-25				
GS-80 Recorders Two-channel Unmounted	NRZ	3 3/4 & 7 1/2	60 cps	4018005-01	2129.00	2085.00				
			50 cps	4018005-02						
		1 7/8 & 3 3/4	60 cps	4018005-03						
			50 cps	4018005-04						
		1 5/16 & 1 7/8	60 cps	4018005-05						
			50 cps	4018005-06						
		5 5/8 & 7 1/2	60 cps	4018005-07						
			50 cps	4018005-08						
	Audio	3 3/4 & 7 1/2	60 cps	4018005-11	2226.00	2180.00				
			50 cps	4018005-12						
		1 7/8 & 3 3/4	60 cps	4018005-13						
			50 cps	4018005-14						
		GS-80 Four Channel Four Track	Above Recorder / Reproducers including conversion to 4 track simultaneous operation. 4 heads, 4 electronics, no erase. Specify catalog number of basic unit plus "4 track conversion."					NRZ	3276.00	3208.00
								AUDIO	3523.00	3450.00
Electronic Modules	NRZ	All	50/60	4020241-01	325.00	318.00				
		3 3/4 & 7 1/2	50/60	4020240-01	383.00	375.00				
	1 7/8 & 3 3/4		50/60	4020240-02						
Rack Tray Assembly: Accepts 1-4 modules.					4020239-01	412.00	404.00			

NOTES: GS-80 components may be intermixed for quantity discount but may not be mixed with any recorders, accessories, etc. GS-80 recorders meet specification MIL-1-26600.

DESCRIPTION

Either audio or digital (NRZ), 2 track or 4 track tape recorder-reproducer, two speed, manually switched. Solid state modular electronics plug in for 2, 3, or 4 channel operation. The GS-80 accommodates up to 7 inch reels and uses 1/4 inch tape. Footswitch remote control, and monitor capability included. Field retrofittable speed kits, power frequency kits and other accessories available.

SPECIFICATIONS

FREQUENCY RESPONSE: Audio: to 12,000 cps, ± 2 db, 55 db S/N - 2 chan.; 50 db - 4 chan.

DIGITAL: 5,000 bits per second.

TAPE SPEED: Any two adjacent pairs of 1 5/16, 1 7/8, 3 3/4, and 7 1/2 ips.

VOLTAGE: Either 50 or 60 cps, 117 V $\pm 10\%$.

PHYSICAL: 12 1/4 inches of rack space.

ENVIRONMENT: Qualified to MIL-1-26600, 32° to 122° F, to 90% R.H.

INSTRUMENTATION RECORDERS/REPRODUCERS

GSA Special Item 136-9



SP-300 Instrumentation Recorder
4-channel 1/4-inch



SP-300 Instrumentation Recorder
7-channel 1/2-inch

MODEL	NUMBER OF AMPLIFIERS	SPEEDS (ips)	ORDER BY CODE NUMBER		SELLING PRICE TO GOVERNMENT
			50 cps	60 cps	
SP-300 FOUR TRACK 1/4" TAPE	One	1 7/8	A-12	A-01	3292.00
	Two	3 3/4	A-13	A-02	3838.00
	Three	7 1/2	A-14	A-03	4384.00
	Four	15	A-15	A-04	4741.00
SP-300 SEVEN TRACK 1/4" TAPE	One	1 7/8 3 3/4 7 1/2 15	A-16	A-05	3515.00
	Two		A-17	A-06	4061.00
	Three		A-18	A-07	4608.00
	Four		A-19	A-08	5154.00
	Five		A-20	A-09	5700.00
	Six		A-21	A-10	6246.00
	Seven		A-22	A-11	6603.00
SP-300 SEVEN TRACK 1/2" TAPE (IRIG std.)	One	1 7/8 3 3/4 7 1/2 15	A-30	A-23	4940.00
	Two		A-31	A-24	5486.00
	Three		A-32	A-25	6033.00
	Four		A-33	A-26	6579.00
	Five		A-34	A-27	7125.00
	Six		A-35	A-28	7671.00
	Seven		A-36	A-29	8028.00

NOTES: a. Mounting: Normally supplied with case; can be rack-mounted.
b. Purchaser must order by description and 50 or 60 cps code number.

GSA Special Item 136-11

SP-300 COMPONENTS AND ACCESSORIES

ITEM	CATALOG NUMBER	SELLING PRICE GOVERNMENT
TRANSPORT, 60 cycle — 1/4"	103130-120	1378.00
TRANSPORT, 50 cycle — 1/4"	103130-130	1378.00
TRANSPORT, 60 cycle — 1/2"	103130-150	2553.00
TRANSPORT, 50 cycle — 1/2"	103130-160	2553.00
HEAD ASSEMBLY, Record/Reproduce 4-track, in-line 1/4"	1815001-02	903.00
HEAD ASSEMBLY, Record/Reproduce 4-track, staggered 1/4"	1815001-03	903.00
HEAD ASSEMBLY, Record/Reproduce 7-track 1/4"	1815001-01	1283.00
HEAD ASSEMBLY, Record/Reproduce 7-track IRIG — 1/2"	1815018-01	1283.00
AMPLIFIER ASSEMBLY, Record/Reproduce	100512-080	546.00
ELECTRONIC CARD RACK — 1/4"	100510-140	599.00
CASE	100476-010	71.00
CASE, front cover	100472-010	38.00
CASE, rear panel	103985-020	10.00
INSTRUCTION MANUAL — 1/4"	48814-020	21.00
INSTRUCTION MANUAL — 1/2"	48814-30	21.00
ALIGNMENT TAPE — 1/4"	103400-010	14.00
ALIGNMENT TAPE — 1/2"	103400-020	34.00
REEL ROTATION COUNTER KIT — 1/2"	1800427-01	142.00
MODULE EXTENSION CABLE	1800240-01	71.00
DUMMY AMPLIFIER CARD	100505-01	5.00

DESCRIPTION

Combines the advanced techniques of Ampex's larger, more complex instrumentation recorders with portability, compactness, and economy. Direct, FM, and audio recording facilities are available. Uses standard 1/4-inch or 1/2-inch tape to provide from one to seven recording channels. Has electrically switched amplifiers, built-in calibration, full-track erase head supplied on 1/4-inch tape units only. Truly portable (weighs 85 lbs., measures 22" x 13" x 19 5/8". 105 lbs. for 1/2" version.)

SPECIFICATIONS



TAPE SPEED: 1 7/8, 3 3/4, 7 1/2 and 15 ips, electrically switched.
TAPE SPECIFICATIONS: Versions for 1/4 or 1/2-inch tape, 1 or 1 1/2 mil base polyester or acetate on 10 1/2-inch NAB or 7-inch plastic reels (1/4-inch only).
HEADS: 4 or 7-track on 1/4-inch tape; 7-track on 1/2-inch tape.
RECORDING MODES: Direct, FM and audio, electrically switched.
FREQUENCY RESPONSE: Direct: 50 to 40 Kc ± 3 db at 15 ips.
FM: DC to 2.5 Kc within 1.0 db at 15 ips.

For Remote Control, see accessories listed on page 13.

ALL SERIES ACCESSORIES

GSA Special Item 136-11

GENERAL ACCESSORIES	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT		
		1	2 - 9	10 +
MX-10 MIXER , Four-position, two-channel mixer, feeds 4 mic. or 2 mic. and 2 line inputs to either or both channels. Unmounted. For Ampex recorders and general use. With gray knobs (for PR-10)..... With black knobs (for 350/300).....	96900-01 96900-03	375.25	367.35	355.50
MICROPHONES , Professional; dynamic; diaphragms of Dupont Mylar; sintered bronze filter; impedance: 30-50, 150-250, or 20,000 ohms. Omnidirectional, 50-20,000 cps Cardioid, 45-15,000 cps	4010802-10 4010803-10	54.63 71.25	51.75 67.50	48.88 63.75

	ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT
REMOTE CONTROL , For all 350 Line, PR-10, CL-10, GS-80, SP-300. Full remote of play, record, fast forward, and rewind. In a box with 30-foot cord..... Panel (unmounted).....	96510-01 96520-01	80.75 54.63
STANDARD AND ALIGNMENT TAPES , Laboratory test tapes for alignment of heads and equalization checkout. For NAB equalization, 15 ips..... For NAB equalization, 7½ ips..... 120 µsec equalization, 3¾ ips..... For other tapes (CCIR, ½", flutter, level set, etc.) consult commercial price schedule.	1-31311-01 1-31321-01 1-31331-01	20.85 20.85 20.85
AC POWER CABLE , Grounded, three-wire cable for reduction of shock hazard on following equipment: 602, 622, PD-10, CL-10, GS-80, MX-10.....	73-0107-01	3.23

ACCESSORIES FOR SPECIFIC MODEL SERIES

FOR 602 SERIES Speed-frequency conversion kits, equalization (NAB). To 60 cps, 3¾ ips..... To 60 cps, 7½ ips..... To 50 cps, 3¾ ips..... To 50 cps, 7½ ips.....	4850094-03 4850094-01 4850094-04 4850094-02	27.55 23.75 27.55 23.75
Rack mounting adaptor panel, 19" wide, for 602 series only For 602-1..... For 602-2.....	01-0864 01-0865	16.63 23.75
FOR PR-10/CL-10 SERIES Position indicator, four digit, resettable.....	4012201-01	33.25
FOR GS-80 SERIES Speed-frequency conversion kits. (See equalizer accessory section and order as necessary.) To 60 cps, 3¾ and 7½ ips..... To 60 cps, 1⅞ and 3¾ ips..... To 60 cps, 1⅝ and 1⅞ ips..... To 50 cps, 3¾ and 7½ ips..... To 50 cps, 1⅞ and 3¾ ips..... To 50 cps, 1⅝ and 1⅞ ips..... 1⅝, 1⅞, 3¾, 5⅞, 7½, either 50 or 60 cps, NRZ or Audio..... To 50 cps, 5⅞ and 7½ ips..... To 60 cps, 5⅞ and 7½ ips.....	4012991-04 4012991-05 4012991-06 4012991-01 4012991-02 4012991-03 4012991-07 4012991-08 4012991-09	47.50 61.75 57.00 47.50 61.75 57.00 228.00 76.00 76.00
FOR MR-70 Sel-Sync Amplifier (one per channel)..... Editing Foot Pedal.....	4012107-01 4012121-01	104.50 28.45

ALL SERIES ACCESSORIES

GSA Special Item 136-11

PLUG-IN EQUALIZERS, PREAMPS, LINE TRANSFORMERS		ORDER BY CATALOG NUMBER	SELLING PRICE TO GOVERNMENT
EQUALIZERS, plug-in, extra or spare:			
PR-10, CL-10			
Record	7½ and 15 ips NAB.....	2-96121-01	9.41
Record	3¾ (specify 120 or 200 µsec).....	2-96120-01	9.41
Record	15/16 and 17/8 ips.....	4020230-01	9.41
Reproduce	7½ and 15 ips NAB — Full Track.....	2-96111-05	9.41
Reproduce	7½ and 15 ips NAB — Two Track.....	2-96111-03	9.41
Reproduce	15/16 and 17/8 ips.....	4020229-01	9.41
GS-80 Series			
Combined record-reproduce audio	7½ ips.....	4020246-01	14.20
	3¾ ips.....	4020246-02	16.62
	17/8 ips.....	4020246-03	16.62
MICROPHONE PREAMPLIFIERS, for AG-350, PR-10, CL-10 and 602 Series (for low impedance microphones, 50 to 250 ohms.)			
Plug-in type. One per channel required.			
	40 db.....	1-96440-01	42.75
	60 db.....	1-96440-04	57.00
	40/60 db switchable gain for AG-350.....	4010040-01	71.25
LINE INPUT TRANSFORMERS, for MX-10, AG-350, PR-10, CL-10, MR-70, and 602 Series			
Plug-in type. One per channel required.			
	Balanced bridging.....	58-0116-01	13.77
	Matching 600 ohm.....	58-0116-02	13.77

PORTABLE CASES

For 602-1 single channel.....	01-0854-01	56.53
For 602-2 two channel.....	01-0855-01	85.03
For PR-10, PR-10-2, PR-10-4, CL-10,.....	4150200-01	71.25
For PR-10-1, PR-10-2, PR-10-4, CL-10, with MX-10 mixer.....	1-96940-01	118.75
For AG-350 transport.....	4030154-01	71.25
For AG-350 electronics or MX-10 (5¼ inch).....	4150296-01	42.75
For two AG-350 electronics, or AG-350 plus MX-10 (10½ inch).....	4150297-01	52.25

OPERATION/MAINTENANCE MANUALS

One manual is provided free of charge with each unit			
AG-100	Mat recorder.....	4890146-03	9.50
AG-300	Recorder/reproducers.....	4890163-01	9.50
AG-350	Recorder/reproducers.....	4890161-03	9.50
MR-70	Single and multi-channel recorders.....	4890145-11	13.98
602	One and two-channel recorders.....	4890080-20	5.70
622	Amplifier/speaker.....	4890099-01	.95
3200/3300	Duplication systems.....	4890162-01	9.50
CL-10	Communications Logging Recorder (See PR-10).....		
MX-10	Mixer.....	4890138-20	3.80
PD-10	Duplication system.....	4890154-20	6.65
PR-10	One and two-channel 2 and 4-track, CL-10.....	4890158-10	6.65
GS-80	Series Recorders.....	4890159-20	6.65

NEW AUDIO HEAD ASSEMBLIES

Ampex offers head assemblies for spare or replacement purposes. All head assemblies carry the full Ampex one year warranty. Orders are processed promptly through your normal procurement channels per paragraph three in "How to Order" on page 15.

TRACKS	FOR AMPEX SERIES	NEW ASSEMBLIES	
		ORDERING NUMBER	GOV'T PRICE
FULL	300	4020475-02	209.00
	351/400	4020475-18	209.00
	352	4020475-23	138.00
	602	4020242-02*	90.00
HALF	351/400	4020475-17	200.00
	352	4020475-22	133.00
	602	4020242-01*	90.00

TRACKS	FOR AMPEX SERIES	NEW ASSEMBLIES	
		ORDERING NUMBER	GOV'T PRICE
TWO	300/351/354 352-2	40230028-02	309.00
		40230028-04	166.00
DUPLI-CATOR	3200 Master	4020475-26	214.00
	3200 Slave	4020475-28	261.00

* 602 Series heads, specify series number of recorder when ordering.

HOW TO ORDER

1. Determine items desired from this catalog.
2. The Government Agency prepares Purchase Order and lists each item separately by the Ampex Catalog Number indicated herein.

Note: Prices for Special Items 136-8, 136-9, 136-18, and 136-21 are subject to quantity price brackets as indicated in this contract. These items may be intermixed on a single order to qualify for lowest price. Intermix does not apply to SP-300 instrumentation recorder. Model GS-80 Series recorders may not be mixed with other recorders, and volume bracket pricing shown for series applies to GS-80 units only. Components for GS-80 may be intermixed only with other components for the same series.
3. The Government may place orders as follows:

Series GS-80 recorders, components, and spare parts should be ordered directly from Ampex Corporation, Redwood City, California.

All other orders may be placed either directly with Ampex Corp., Redwood City, California, or in care of nearest distributor franchised to sell the items required. If the order is placed with a distributor, it should be addressed as follows:

Ampex Corp.
c/o Joe Doe, Distributor
Street Address
City, State, Country

Note: For name of franchised Ampex distributor in your area, contact the nearest Ampex Office on back cover.
4. The Ampex Distributor may elect to deliver the merchandise from his inventory or have the merchandise shipped from Ampex Corporation.
5. The Ampex Distributor in every case will forward the Government Purchase Order to the appropriate Ampex Regional Office listed on back cover.
6. If the Ampex Distributor has delivered the equipment from his stock, the serial numbers of units delivered and a receipt for delivery will accompany the original Government Purchase Order mailed to the Ampex Regional Office.
7. Ampex will invoice the Government Agency on all purchases under this contract. Government agencies must mail payments to: Ampex Corporation, P. O. Box 3646, San Francisco, California 94119.
8. If any equipment is received in damaged condition, the Government Agency will immediately advise Ampex Corporation, Redwood City, California, by collect wire, indicating Purchase Order Number, serial number of item (if any), extent of damage and when items may be inspected.
9. UNIT PRICE—Prices are for each unit F.O.B. destination by surface shipment within the 48 contiguous states and the District of Columbia. Add 3% to unit price for delivery to Alaska, Hawaii, and Puerto Rico. Other overseas destinations are F.O.B. port of exit.
10. DELIVERY—In the 48 contiguous states and District of Columbia, delivery will be within 90 days of receipt of order. Same delivery applies port of exit on overseas shipments.
11. TERMS OF PAYMENT—1%, 20 days, net 30 days after delivery or date of invoice received if latter date is later than date of delivery.
12. PACKING — Commercial packing will be performed in conformity to the standards and practices of the industry. Standard export packing will be billed at 1% of the unit price as an additional charge and invoiced as a separate item.
13. U. S. Government Agencies overseas (excluding Alaska and Hawaii) should address inquiries to the appropriate overseas Ampex Office on back cover or to the Ampex Corporation, Redwood City, California.
14. REPLACEMENT PARTS (136-13, -23) Replacement parts for Ampex equipment listed in this catalog may be purchased under this contract with terms and conditions as indicated above. Prices for such parts shall be current user prices less 5%. All such replacement parts (except those for GS-80) may be ordered from nearest distributor franchised to sell the items required—OR— all parts including those for GS-80 may be ordered from Ampex Corporation, Redwood City, California. Parts price lists for each Ampex model are available on request from Ampex Corporation, Parts and Service Department, 401 Broadway, Redwood City, California.
15. Factory source inspection, when required, shall be performed at the Ampex Professional Audio Factory, 600 Wooten Way, Colorado Springs, Colorado, on all items listed herein except replacement parts and the AV 770 recorder/reproducer. Parts will be available for inspection at Ampex Corporation, 401 Broadway, Redwood City, California. The AV 770 will be available for inspection at Ampex Consumer and Educational Products Division, 2201 Landmeier Road, Elk Grove Village, Illinois.

IMPORTANT

AMPEX OFFICES / PARTS and SERVICE DEPOTS

For additional information concerning the products listed in this catalog and for names of Franchised Ampex Distributors in your area, write to: Ampex Corporation, 401 Broadway, Redwood City, California, or contact the nearest Ampex Regional Office listed below.

AMPEX U. S. REGIONAL OFFICES

ATLANTA, GEORGIA 30326
3376 Peachtree Road, N. E.
(404) 231-3480
TWX 404-231-1637

CHICAGO AREA
10 King Street
Elk Grove Village, Illinois 60007
(312) 439-4600
TWX 910-222-2864

DALLAS, TEXAS 72535
2626 West Mockingbird Lane
(214) 357-0481
TWX 214-899-9001

LOS ANGELES, CALIFORNIA 90048
8467 Beverly Boulevard
(213) 653-1610
TWX 213-655-6535

NEW YORK AREA
75 Commerce Way
Hackensack, New Jersey 07601
(201) 489-7400
TWX 510-230-5013
(in New York, Phone 736-6116)

SAN FRANCISCO AREA
2220 Bay Road
Redwood City, California 94063
(415) 367-3861
TWX 415-364-9034

WASHINGTON D. C. AREA
3620 South 27th Street
Arlington, Virginia 22206
(703) 671-4000
TWX 710-955-9832

AMPEX DISTRICT OFFICES

ALBUQUERQUE, NEW MEXICO 87108
414 San Mateo Boulevard N. E.
(505) 265-8507
TWX 910-989-1639

BOSTON AREA
235 Bear Hill Road
Waltham, Massachusetts 02154
(617) 899-2040
TWX 710-324-0364

CAPE KENNEDY AREA
1980 North Atlantic Avenue
Cocoa Beach, Florida 32931
(305) 783-1811
TWX 305-783-1738

DAYTON, OHIO 45432
4130 Linden Avenue
(513) 254-6101
TWX 810-459-1714

DETROIT AREA
23875 Northwestern Highway
Southfield, Michigan 48076
(313) 356-6750
TWX 810-232-1643

HOUSTON, TEXAS 77023
6001 Gulf Freeway
(713) 928-3741
TWX 713-571-1494

HUNTSVILLE, ALABAMA 35801
3322 South Memorial Parkway
(205) 881-4271
TWX 205-533-2820

PHILADELPHIA AREA
947 York Road
Abington, Pennsylvania 19001
(215) 887-7650
TWX 215-884-2822

PHOENIX, ARIZONA 85020
8900 North Central Avenue
(602) 944-4381

MINNEAPOLIS, MINNESOTA 55424
4010 West 65th Street
(612) 927-5638
TWX 910-576-2806

SEATTLE, WASHINGTON 98118
8434 Rainier Avenue South
(206) 723-3170
TWX 206-998-0914

AMPEX INTERNATIONAL REGIONAL OFFICES

**UNITED KINGDOM/EUROPE
AFRICA and MIDDLE EAST**
Acre Road
Reading, Berkshire, England

LATIN AMERICA and CANADA
Box 4000
Redwood City, Calif.

FAR EAST/AUSTRALIA/NEW ZEALAND
Room 201, Rediffusion House
Gloucester Road
Hong Kong, B.C.C.

AMPEX PARTS and SERVICE DEPOTS

SOUTH CENTRAL
6623 Denton Drive
Dallas, Texas 72535
(214) 357-9255
TWX 214-899-9001

SOUTHWEST
600 Paula Avenue
Glendale, California
(213) 653-1610
TWX (Unassigned)

MIDWEST
2201 Lunt Avenue
Elk Grove Village, Illinois 60007
(312) 439-5711
TWX 910-222-2864

NORTHEAST
75 Commerce Way
Hackensack, New Jersey
(201) 489-7407
TWX 201-488-6715

AMPEX