

PRECISION MAGNETIC TEST TAPES



STL Test Tapes are recorded directly from precision generating equipment to provide the most accurate reference possible. An independent standards laboratory, STL provides a completely objective service, with test tapes available to major manufacturers, governments, and all who need a precision reference tool.

GENERAL DESCRIPTIONS

REPRODUCE ALIGNMENT TEST TAPES—FOR HIGHEST ACCURACY CALIBRATION—

Contains Level Set, Azimuth, and Frequency Run test sections. All tones voice announced.

PINK NOISE—For phase alignment of multi-track systems, and response check with 1/3 octave filters.†

LEVEL SET—Single Tone (see program of equivalent alignment tape for frequency).†

AZIMUTH—Single Tone (see program of equivalent alignment tape for frequency).†

FLUTTER & SPEED—A crystal-controlled frequency source recorded at low flutter and accurate speed.†

†5 minutes

Sweep and many other special-purpose test tapes can be ordered directly from our laboratory on a manufacture-to-order basis.

USE OF TAPE SELECTION CHART

Prefix Designations—Add the prefix designation listed to differentiate between Reproduce Alignment, Pink Noise, Level Set, and Azimuth. Example: C-0001-1 is a Reproduce Alignment test tape. Tapes ordered without a prefix designation will be assumed to be a Reproduce Alignment.

Reel-to-Reel—All tapes listed are full track, recorded at standardized flux levels (no fringing compensation). ¼" tapes with catalog numbers ending in "-1" can be ordered as 2 channel, ½ track (.075"/1.91 mm tracks) by changing the "-1" to "-2". Likewise, for 2 channel, ¼ track (tracks 1 and 3), change to "-4". Example: C-0001-2 indicates 2 channel, ½ track.

Broadcast Cartridge—All tapes listed are stereo. For mono, change the "-2" to "-1". Full track tapes can be ordered for MAXTRAX® machines by changing the "-2" to "-0". Select cartridge type from list below the chart and add appropriate suffix to the catalog number. Example: C-0034-2-SC for Scotchcart.

Cassette—In high-quality screw-type cassettes. Also available on 8" NAB hub-reel. Add "-R" to catalog number.

35mm Film—Full coat recorded full width of film except sprocket area.

STANDARD TAPE MANUAL

A practical tool for those who are familiar with the fundamentals of magnetic recording and simply require a quick source of reference data to "plug in" to their routine endeavors. Contains data on head losses, flux levels, azimuth determination, induction loop response, wavelength losses, head resonance, low-frequency head calibration and other useful information. Price \$ 60

MAGNETIC TAPE REPRODUCER CALIBRATOR

A flux injection device used with your signal generator to supply signals to pb head, and a precision passive network to be inserted between reproducer output and your electronic voltmeter. Allows you to check the magnetic properties and resonance characteristic of your reproduce head. Use with the appropriate Reproduce Alignment Tape to completely evaluate the reproduce head capability.

For all popular time constants—Specify type of head and reproducer Price \$420

Additional flux induction fixtures for additional magnetic heads Price \$ 65

WHERE TO ORDER

Tapes in this catalog can be ordered directly from our laboratory or they can be purchased from select dealers throughout the world.

Domestic Orders—Phone for fast delivery. Terms are net, COD, FOB our laboratory. However, if check comes with order, we pay shipping costs by UPS Blue (air) where available. California orders require sales tax for your area.

Foreign Orders—For all orders to be shipped outside the USA, please add 15% to the prices listed in the catalog for shipping and handling. All shipments will be by air, best way, and insured. If insurance is not available for shipments to your area, delivery will be the buyer's responsibility. A check in US dollars drawn on a US bank for the amount indicated must accompany order.

STANDARD TAPE LABORATORY, INC.

26120 EDEN LANDING ROAD #5, HAYWARD, CALIFORNIA 94545 U.S.A. • (415) 786-3546

TAPE SELECTION CHART

GENERAL SPECIFICATIONS							1/4" — 6.3 mm (Cassette) — .150" (Film)					1/2" — 12.6 mm			1" — 25.2 mm			2" — 50.4 mm	
SPEED IPS mm/s	EQUALIZATION uSEC	STANDARD	PRO-GRAM See Back	FREQ. RUN LEVEL dB	REFERENCE LEVEL ‡		CATALOG NUMBER	REPRO. ALIGN.	PINK NOISE	LEVEL SET	AZI- MUTH	CATALOG NUMBER	REPRO. ALIGN.	PINK NOISE	CATALOG NUMBER	REPRO. ALIGN.	PINK NOISE	CATALOG NUMBER	REPRO. ALIGN.
					FREQ. Hz	nWb/m ANSI (DIN)													
							Prefix → C-	P-	L-	A-	Prefix → C-	P-	Prefix → C-	P-	Prefix → C-	P-			

REEL TO REEL							U.S.A. STANDARDS					ORIGINAL STL PROGRAMS										
3 3/4	95	3180-90	NAB 1965	C	-20*	400	185 (200)	0001-1	\$ 66	\$ 72			\$ 39	\$ 39	0023	\$ 130	\$ 130	0024	\$ 290	\$ 290	---	---
7 1/2	190	3180-50	NAB 1965	B	-10	700	185 (200)	0002-1	\$ 61	\$ 66			\$ 39	\$ 39	0005	\$ 125	\$ 125	0008	\$ 280	\$ 280	0019	\$ 540
7 1/2	190	3180-50	NAB 1965	B	-10	700	260 (280)	3002-1	\$ 61	---			\$ 39	---	3005	\$ 125	---	3008	\$ 280	---	3019	\$ 540
7 1/2	190	3180-50	NAB 1965	A	0	700	185 (200)	0022-1	\$ 61	---			---	---	---	---	---	---	---	---	---	---
15	380	3180-50	NAB 1965	A	0	700	185 (200)	0003-1	\$ 61	\$ 66			\$ 39	\$ 39	0006	\$ 125	\$ 125	0009	\$ 280	\$ 280	0020	\$ 540
15	380	3180-50	NAB 1965	A	0	700	260 (280)	3003-1	\$ 61	---			\$ 39	---	3006	\$ 125	---	3009	\$ 280	---	3020	\$ 540
30	760	∞-17 1/2	AES 1971	A	0	700	185 (200)	0004-1	\$ 72	\$ 78			\$ 44	\$ 44	0007	\$ 140	\$ 140	0012	\$ 320	\$ 320	0021	\$ 610
30	760	∞-17 1/2	AES 1971	A	0	700	260 (280)	3004-1	\$ 72	---			\$ 44	---	3007	\$ 140	---	3012	\$ 320	---	3021	\$ 610

REEL TO REEL							U.S.A. STANDARDS					INTERNATIONAL TEST FREQUENCIES										
3 3/4	95	3180-90	NAB 1965	L	-20	500	200 (215)	0101-1	\$ 66	\$ 72			\$ 39	---	0123	\$ 130	\$ 130	0124	\$ 290	\$ 290	---	---
7 1/2	190	3180-50	NAB 1965	K	-10	1000	200 (215)	0102-1	\$ 61	\$ 66			\$ 39	---	0105	\$ 125	\$ 125	0108	\$ 280	\$ 280	0119	\$ 540
7 1/2	190	3180-50	NAB 1965	K	-10	1000	250 (270)	2102-1	\$ 61	---			\$ 39	---	2105	\$ 125	---	2108	\$ 280	---	2119	\$ 540
15	380	3180-50	NAB 1965	K	0	1000	200 (215)	0103-1	\$ 61	\$ 66			\$ 39	---	0106	\$ 125	\$ 125	0109	\$ 280	\$ 280	0120	\$ 540
15	380	3180-50	NAB 1965	K	0	1000	250 (270)	2103-1	\$ 61	---			\$ 39	---	2106	\$ 125	---	2109	\$ 280	---	2120	\$ 540
30	760	∞-17 1/2	AES 1971	K	0	1000	200 (215)	0104-1	\$ 72	\$ 78			\$ 44	---	0107	\$ 140	\$ 140	0112	\$ 320	\$ 320	0121	\$ 610
30	760	∞-17 1/2	AES 1971	K	0	1000	250 (270)	2104-1	\$ 72	---			\$ 44	---	2107	\$ 140	---	2112	\$ 320	---	2121	\$ 610

REEL TO REEL							INTERNATIONAL STANDARDS					THESE TEST TAPES COMPLY WITH STANDARDS ESTABLISHED BY IEC, DIN, and CCIR.										
3 3/4	95	3180-90	IEC 1971	L	-20	500	230 (250)	2201	\$ 66	\$ 72			\$ 39	---	2223	\$ 130	\$ 130	2224	\$ 290	\$ 290	---	---
7 1/2	190	∞-70	IEC 1971	K	-10	1000	230 (250)	2202	\$ 61	---			\$ 39	---	2205	\$ 125	\$ 125	2208	\$ 280	\$ 280	2219	\$ 540
7 1/2	190	∞-70	IEC 1971	K	-10	1000	295 (320)	4202	\$ 61	\$ 66			\$ 39	---	4205	\$ 125	\$ 125	4208	\$ 280	\$ 280	4219	\$ 540
15	380	∞-35	IEC 1971	K	-10	1000	230 (250)	2203	\$ 61	---			\$ 39	---	2206	\$ 125	\$ 125	2209	\$ 280	\$ 280	2220	\$ 540
15	380	∞-35	IEC 1971	K	-10	1000	295 (320)	4203	\$ 61	\$ 66			\$ 39	---	4206	\$ 125	\$ 125	4209	\$ 280	\$ 280	4220	\$ 540
30	760	∞-17 1/2	IEC 1971	K	0	1000	295 (320)	4204	\$ 72	\$ 78			\$ 44	---	4207	\$ 140	\$ 140	4212	\$ 320	\$ 320	4221	\$ 610

REEL TO REEL							AUDIO ONLY REPRODUCE ALIGNMENT TAPES					FOR VIDEO MACHINES*** U.S.A. STANDARD (NTSC)										
9.6	244	3180-15	SMPTE	D	0	1000	---	---	---	---			---	---	---	---	---	0017	\$ 320	---	---	---
15	380	2000-35	SMPTE	D	0	1000	110 (120)	---	---	---			---	---	---	---	---	---	---	---	0016	\$ 355

BROADCAST CARTRIDGE†							U.S.A. or INTERNATIONAL STANDARDS																																
7 1/2	190	∞-50	NAB 1976	E	-10	1000	160 (175)	0034-2	\$ 75	\$ 85			\$ 45	\$ 55	<div style="border: 1px solid black; padding: 5px;"> <p>3150 Hz. FLUTTER/SPEED TEST TAPES All Formats</p> <p>REEL TO REEL—Flutter less than .03% RMS. Speed better than 0.1% at 74°F & 4 oz.</p> <table border="1"> <thead> <tr> <th>SPEED (IPS) (mm/s)</th> <th>1/4" TAPE (6.3 mm) CAT. NO. PRICE (\$)</th> <th>1/2" TAPE (12.6 mm) CAT. NO. PRICE (\$)</th> <th>1" TAPE (25.2 mm) CAT. NO. PRICE (\$)</th> </tr> </thead> <tbody> <tr> <td>3 3/4 95</td> <td>X-1251 55</td> <td>X-1351 75</td> <td>X-1451 135</td> </tr> <tr> <td>7 1/2 190</td> <td>X-1252 60</td> <td>X-1352 85</td> <td>X-1452 150</td> </tr> <tr> <td>15 380</td> <td>X-1253 65</td> <td>X-1353 95</td> <td>X-1453 165</td> </tr> <tr> <td>30 760</td> <td>X-1254 70</td> <td>X-1354 105</td> <td>X-1454 180</td> </tr> </tbody> </table> <p>BROADCAST CARTRIDGE—7 1/2 IPS (190 mm/s)†. Catalog number X-1235. Price \$70.</p> <p>35MM FILM—18 IPS (457 mm/s). Catalog number X-0090. Price \$250.</p> <p>CASSETTE—1 1/8 IPS (47.5 mm/s)** Catalog number X-1129. Price \$55. 5 minute recording, flutter less than .05% RMS—Speed accuracy 0.15% at 74°F.</p> </div>					SPEED (IPS) (mm/s)	1/4" TAPE (6.3 mm) CAT. NO. PRICE (\$)	1/2" TAPE (12.6 mm) CAT. NO. PRICE (\$)	1" TAPE (25.2 mm) CAT. NO. PRICE (\$)	3 3/4 95	X-1251 55	X-1351 75	X-1451 135	7 1/2 190	X-1252 60	X-1352 85	X-1452 150	15 380	X-1253 65	X-1353 95	X-1453 165	30 760	X-1254 70	X-1354 105	X-1454 180
SPEED (IPS) (mm/s)	1/4" TAPE (6.3 mm) CAT. NO. PRICE (\$)	1/2" TAPE (12.6 mm) CAT. NO. PRICE (\$)	1" TAPE (25.2 mm) CAT. NO. PRICE (\$)																																				
3 3/4 95	X-1251 55	X-1351 75	X-1451 135																																				
7 1/2 190	X-1252 60	X-1352 85	X-1452 150																																				
15 380	X-1253 65	X-1353 95	X-1453 165																																				
30 760	X-1254 70	X-1354 105	X-1454 180																																				
7 1/2	190	∞-50	NAB 1976	J	0	1000	250 (270)	4039-2	\$ 80	---			\$ 45	---																									
7 1/2	190	∞-70	IEC 1971	E	-10	1000	160 (175)	0234-2	\$ 75	\$ 85			\$ 45	---																									
7 1/2	190	∞-70	IEC 1971	J	0	1000	250 (270)	4239-2	\$ 80	---			\$ 50	---																									

CASSETTE**							INTERNATIONAL STANDARDS								
1 1/8	47.5	3180-120	IEC 1981	H	-20	315	145 (160)	0086	\$ 85	\$ 95			\$ 40	\$ 55	
1 1/8	47.5	3180-70	IEC 1981	H	-20	315	145 (160)	0087	\$ 85	\$ 95			---	---	
1 1/8	47.5	3180-70	Dolby single tone				400	185 (200)	2028	---	---			\$ 45	---

35MM FILM							U.S.A. STANDARDS							
18	457	∞-35	SMPTE	M	0	1000	185 (200)	0090	\$375	\$250			\$250	\$250
24 Frames—.005" Polyester—Full Coat—Full Track								600'	400'			400'	400'	



STANDARD TAPE LABORATORY, INC.

26120 EDEN LANDING ROAD #5, HAYWARD, CALIFORNIA 94545 U.S.A. • (415) 786-3546

*-10 on 1/4" tapes.
 **In high-quality screw-type cassette. Also available on 8" reel—NAB center: add -R to catalog number.
 ***One Inch—Type C, Two Inch—Quadrex.
 †Specify the cartridge desired by adding the suffix indicated below to the catalog number:
 -AP (A2 Audiopak), -AF (AA 4 Audiopak), -FI (Fidelipac 350), -MA (Mastercart), -SC (Scotchcart).
 ‡ANSI (DIN)—U.S. vs. European (DIN and IEC) methods of measurement result in level discrepancies listed.
 Example: 185 nWb/m ANSI = 200 nWb/m DIN or IEC.

REPRODUCE ALIGNMENT PROGRAMS

A				B				C				D				E			
Hz	SEC.		dB	Hz	SEC.		dB	Hz	SEC.		dB	Hz	SEC.		dB	Hz	SEC.		dB
	1/4"-1/2"	1"-2"			1/4"-1/2"	1"-2"			1/4"-1/2"	1"-2"			1/4"	1/2"			1"-2"	1/4"	
15000	30	60	0	15000	30	60	-10	10000	30	60	†	1000	60	0	1000	20	0		
700	20	40	0	700	20	40	-10	400	20	40	†	10000	60	0	1000	10	-10		
15000	30	60	0	15000	30	60	-10	15000	30	60	†	1000	30	0	12500	30	-10		
12000	12	24	0	12000	12	24	-10	12000	12	24	†	10000	30	0	50	5	-10		
10000	12	24	0	10000	12	24	-10	10000	12	24	†	63	10	0	63	5	-10		
7500	12	24	0	7500	12	24	-10	7500	12	24	†	125	10	0	125	5	-10		
5000	12	24	0	5000	12	24	-10	5000	12	24	†	250	10	0	250	5	-10		
2500	12	24	0	2500	12	24	-10	2500	12	24	†	500	10	0	500	5	-10		
1000	12	24	0	1000	12	24	-10	1000	12	24	†	1000	10	0	1000	5	-10		
500	12	24	0	500	12	24	-10	500	12	24	†	2000	10	0	2000	5	-10		
250	12	24	0	250	12	24	-10	250	12	24	†	4000	10	0	4000	5	-10		
100	12	24	0	100	12	24	-10	100	12	24	†	8000	10	0	8000	5	-10		
50	12	24	0	50	12	24	-10	50	12	24	†	10000	10	0	10000	5	-10		
30	12	24	0	700	20	40	0	400	20	40	0	12500	10	0	12500	5	-10		
												16000	10	0	16000	5	-10		
												1000	60	0	1000	20	0		

H				J				K				L				M				
Hz	SEC.		dB	Hz	SEC.		dB	Hz	SEC.		dB	Hz	SEC.		dB	Hz	SEC.		dB	
	1/4"	1/2"			1"-2"	1/4"			1/2"	1"-2"			1/4"	1/2"			1"-2"			
315	30	0		1000	15	0		1000	30	40	60	0	500	30	40	60	0	1000	30	0
6300	30	-20		32	15	0		4000	10	12	20	0	500	10	12	20	-10	16000	30	0
12500	30	-20		50	15	0		8000	15	20	30	0	6300	15	20	30	-10	Pink Noise }	30	—
315	10	-20		12500	15	0		16000	20	25	40	0	12500	20	25	40	-10			
32	10	-20		16000	15	0		1000	10	12	20	†	500	10	12	20	†	1000	10	0
40	10	-20		32	5	0		32	10	12	20	†	32	10	12	20	†	32	10	0
63	10	-20		50	5	0		40	10	12	20	†	40	10	12	20	†	40	10	0
100	10	-20		100	5	0		63	10	12	20	†	63	10	12	20	†	50	10	0
125	10	-20		250	5	0		100	10	12	20	†	100	10	12	20	†	80	10	0
250	10	-20		500	5	0		125	10	12	20	†	125	10	12	20	†	100	10	0
500	10	-20		1000	5	0		250	10	12	20	†	250	10	12	20	†	160	10	0
1000	10	-20		2000	5	0		500	10	12	20	†	500	10	12	20	†	400	10	0
2000	10	-20		4000	5	0		1000	10	12	20	†	1000	10	12	20	†	1000	10	0
4000	10	-20		8000	5	0		2000	10	12	20	†	2000	10	12	20	†	2500	10	0
6300	10	-20		10000	5	0		4000	10	12	20	†	4000	10	12	20	†	4000	10	0
8000	10	-20		12500	5	0		8000	10	12	20	†	8000	10	12	20	†	6300	10	0
10000	10	-20		16000	5	0		10000	10	12	20	†	10000	10	12	20	†	8000	10	0
12500	10	-20		1000	15	0		12500	12	15	25	†	12500	10	15	25	†	10000	10	0
14000	10	-20		1000	15	-4		16000	12	15	25	†	14000	10	15	25	†	12500	10	0
16000	10	-20		0 dB=250 nWb/m ANSI,				20000	12	15	25	†	16000	10	15	25	†	16000	30	0
18000	10	-20		-4=160				1000	12	15	25	†	500	10	15	25	†	1000	10	0

†Frequency run level specified on tape selection chart.

BROADCAST CARTRIDGE CUE TONE TEST TAPES—Standard 7½ IPS Speed. These tapes provide 10 second test tones for threshold sensitivity, standard level and maximum level. Similar test sequences are recorded for primary, secondary, and tertiary tones.

Catalog #L-0096 is for NAB Format machines Price \$ 65

Catalog #L-0097 is for MAXTRAX® Format machines ... Price \$ 65

Also available for fast checking of Standard NAB Cue Levels only, Catalog #L-0095 provides repeating sequences of 500 ms. bursts of primary, secondary, and tertiary tones.

Catalog #L-0095 Price \$ 75

Please add appropriate suffix for cartridge desired. See list of available cartridges at bottom of table.