

Recorder Care Division

 **NORTRONICS**

broadcast studio duplicator

Professional Tape Head Replacement Guide

INCLUDES SPECIALIZED
AUDIO APPLICATIONS



3rd EDITION

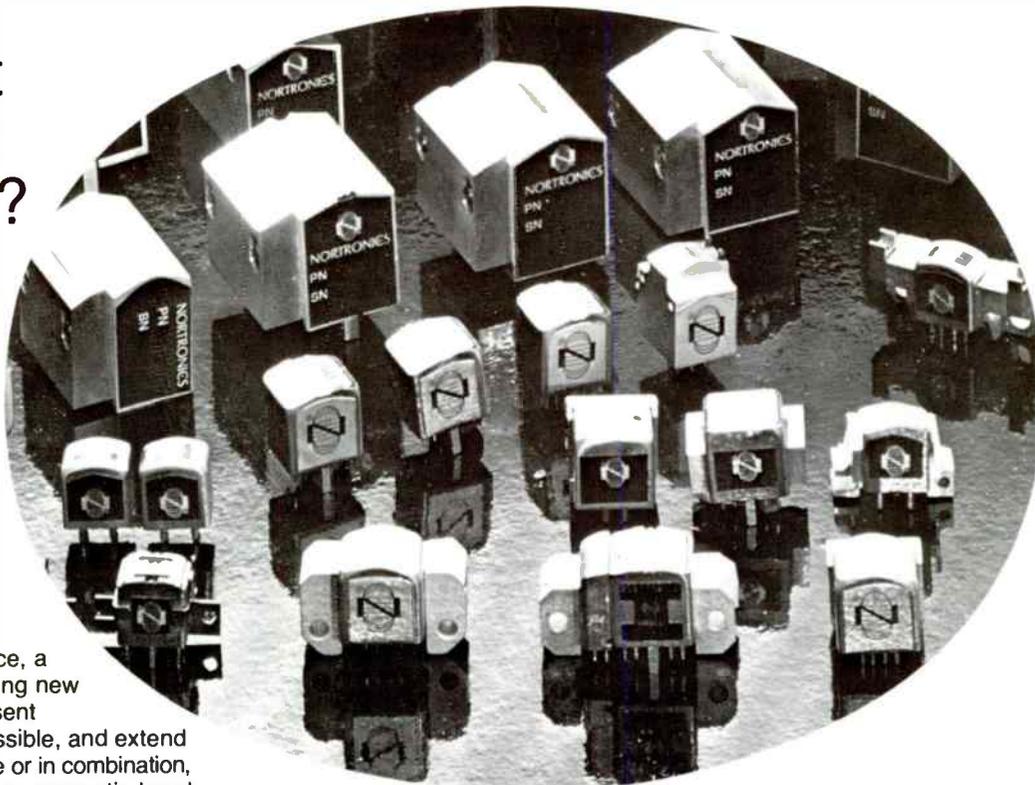
What do you need from magnetic heads?

Quality. Consistent, uniform quality you can count on order after order for performance that doesn't vary. • You need selection: A complete range of heads to meet virtually every requirement for broadcast, studio and duplicating. • And availability. From a nationwide network of distributors. Each one with stocks specially suited for professional use. • And you need service. Prompt attention. Dependable delivery. Technical information. Professional assistance, from application to installation know-how.

What does it take to meet those needs?

Technology...

That means the most advanced production techniques and constant research for improvement. Nortronics has more than 350 years of cumulative engineering experience, a heavy R&D budget for investigating new materials which will improve present products, make new products possible, and extend magnetic head operating life. Alone or in combination, they permit us to meet virtually any magnetic head requirement.



Dedication...

Our most valued asset. Our people. From the production floor to the nearby Nortronics' distributor ... from precision processing to prompt attention to your needs, the objective is to provide unsurpassed products backed by unsurpassed service. Pride, expertise, and experience are part of every order. Call your local Nortronics Recorder Care distributor.



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TO FIND YOUR NORTRONICS REPLACEMENT HEAD:

1. IF YOU KNOW RECORDER MODEL NUMBER AND HEAD TRACK STYLE, refer to Sections A, B, C or D for Head and QK Mounting Hardware, if needed.
2. IF YOU CAN'T FIND YOUR RECORDER IN THESE SECTIONS, BUT KNOW THE RECORDER MANUFACTURER'S HEAD PART NO., refer to Section E.
3. IF YOU KNOW THE NORTRONICS OEM HEAD NUMBER, refer to Section F to determine the RECORDER-CARE NUMBER.

MANUFACTURERS LISTED IN THIS BOOK

AMEGA	MACARTA (MOULIC SPECIALTIES) (ALSO SMC CORP.)
AMPEX	MAGNASYNC (SEE MOVIOLA)
AMPRO (INSTATAPE)	MAGNECORD (TELEX)
ATC (GATES)	MAGNEFAX
AUTOMATIC ELECTRIC (ELECTRONIC SECRETARY)	MCA
BECHT	MCI
BROADCAST ELECTRONICS (SEE SPOTMASTER)	METROTECH (SCULLY)
BRUSH (CLEVITE)	MICRO MAGNETICS
CODE-A-PHONE (FORD)	3M (SEE WOLLENSAK)
COLLINS	MOVIOLA (MAGNASYNC)
CONCERTONE (BERLANT)	NEWCOMB
CROWN INTERNATIONAL	PENTAGON
CUE MASTER (CONSOLIDATED ELECTRONICS)	PRESTO
DICTAPHONE	RCA
ECHOPLEX (MARKET) (GIBSON-MAESTRO)	RAWDON-SMITH
ELECTRONIC SECRETARY (SEE AUTOMATIC ELECTRIC)	RECORDEX
FAIRCHILD	REVOX
FENDER	SCHAFFER
FORD INDUSTRIES (SEE CODE-A-PHONE)	SCHOBER ORGAN
GABLES	SCULLY (SCULLY/METROTECH)
GARNER	L. J. SCULLY
GARRON (RAPID-Q)	SPARTA
GATES	SPOTMASTER (BROADCAST ELECTRONICS)
GATES (ATC)	STANCIL-HOFFMAN
INFONICS (VISUAL EDUCOM)	SUNDSTRAND (UNITED CONTROL)
INTERNATIONAL TAPETRONICS	TAPE-ATHON
INTERNATIONAL VIDEO	TAPECASTER
INSTATAPE (SEE AMPRO)	TEAC
ITC (INTERNATIONAL TAPE)	TELEX (MAGNECORD) (VIKING)
LOCKHEED	VIKING (TELEX)
	VISUAL EDUCOM (SEE INFONICS)
	WOLLENSAK (3M)

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HEAD SPECIFICATIONS & ACCESSORIES

REFERENCE NOTES AND
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INSIDE BACK COVER

Nortronics Tape Head Replacements for: Reel-to-Reel Recorders/Players

SECTION **A**

HEAD REPLACEMENT BY
RECORDER MANUFACTURER
AND MODEL NO

- 1 Look up particular machine, Model No and track style to determine the correct replacement heads
- 2 Head No. is followed by OK mount when needed Subsequent head replacements will usually not require an other OK.
- 3 Consult REFERENCE NOTES on inside back cover as indicated by number in second column



Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
AMEGA						
RP-32	2TM - 2		RPE	8401	8408	3601
AMPEX (Note: QK mounts needed first time only)						
A111	FT - 15			9103+86	9102+86	9125+86
A111	2TM - 17			8401+86	8400+86	9223+86
A111	2TS - 17			9203+86	9203+86	9223+86
A112	FT - 15			9103+86	9102+86	9125+86
A112	2TM - 17			8401+86	8400+86	9223+86
A112	2TS - 17			9203+86	9203+86	9223+86
A114	FT - 15			9103+86	9102+86	9125+86
A114	2TM - 17			8401+86	8400+86	9223+86
A114	2TS - 17			9203+86	9203+86	9223+86
A121	FT - 15			9103+86	9102+86	9125+86
A121	2TM - 17			8401+86	8400+86	9223+86
A121	2TS - 17			9203+86	9203+86	9223+86
A122	FT - 15			9103+86	9102+86	9125+86
A122	2TM - 17			8401+86	8400+86	9223+86
A122	2TS - 17			9203+86	9203+86	9223+86
A124	FT - 15			9103+86	9102+86	9125+86
A124	2TM - 17			8401+86	8400+86	9223+86
A124	2TS - 17			9203+86	9203+86	9223+86
AG300-1	FT - 14, 20			9104+76	9127+76	
AG300-2	2TS - 20			9204+76	9202+76	9222+76
AG300	4TS - 20			8614+76	8600+76	8640+76
AG300-4	4CH 1/2" - 17			9465	9464	9472
AG305-1	FT Play				9102+76	
AG305-2	2TS Play				9202+76	
AG305	4TS Play				8600+76	
AG350	4CH 1/4" Play				5603+76	
AG350-1	FT - 14, 20, 27	P 2T	8200+86*	9104+76	9102+76	9127+76
AG350-2	2TS - 20, 27	P 4TS	8600+86*	9204+76	9202+76	9222+76
AG350	4TS - 20, 27	P 2TS	9202+86*	8614+76	8600+76	8640+76
AG355	FT	P 2T	8200+76*		9102+76	
AG355	2TS	P 4TS	8600+76		9202+76	
AG440	FT - 23	P 2T	9209+76*	9104+76	9109+76	9127+79
AG440	2TS - 23	P 4TS	8609+76*	9204+76	9209+76	9227+79
AG440	4TS - 23	P 2TS	9209+76*	8618+76	8609+76	8640+76
AG440	4CH 1/2" - 17			9465	9474	9472
AG440B	FT - 23	P 2T	9209+76*	9104+76	9109+76	9127+79
AG440B	2TS - 23	P 4TS	8609+76*	9204+76	9209+76	9227+79
AG440B	4TS - 23	P 2TS	9209+76*	8618+76	8609+76	8640+76
AG440B	4CH 1/2" - 17			9465	9474	9472
AG440C	FT, 2T - 23	P 2T	9209+76*	9104+76	9109+76	9127+79
AG440C	2TS - 23	P 4TS	8609+76*	9204+76	9209+76	9227+79
AG440C	4TS - 23	P 2TS	9209+76*	8618+76	8609+76	8640+76
AG440C	4CH 1/2" - 17			9465	9474	9472
AG445	FT	P 2T	9209+76*		9109+76	
AG445	2TS	P 4TS	8609+76		9209+76	
AG445B	4CH 1/4"				5605+76	
AG445B	FT	P 2T	9209+76*		9109+76	
AG445B	2TS	P 4TS	8609+76		9209+76	
AG445B	4CH 1/4"				5605+76	
AG445C	FT	P 2T	9209+76*		9109+76	
AG445C	2TS	P 4TS	8609+76		9209+76	
AG445C	4CH 1/4"				5605+76	
AG500	FT	P 2T	9207+87*	9103+87	9111+87	9125+87
AG500	2TS - 21	P 4TS	8607+87*	9203+87	9207+87	9227+87
AG500	4TS - 22	P 2TS	9207+87*	8618+87	8607+87	8640+87
AG500	4CH 1/4" - 22, 30			5604+87	5603+87	9125+87
AG600	FT - 15			9103+86	9111+86	9125+86
AG600	2TM, 2TS - 21			9203+86	9207+86	9227+86
AG600	4TS - 22			8618+86	8607+86	8640+86
AG600B	FT - 15			9103+86	9111+86	9125+86
AG600B	2TM, 2TS - 21			9203+86	9207+86	9227+86
AG600B	4TS - 22			8618+86	8607+86	8640+86
AL500	2TS - 21	P 4TS	8607+87*		9207+87	
AL500	4TS - 22	P 2TS	9207+87*	8618+87	8607+87	8640+87
AL500	4CH 1/4" - 22, 30			5604+87	5603+87	9125+87
PR-10-1	FT - 15	P 2T	8400+87*	9103+87	9102+87	9125+87
PR-10-1	2TM - 15			8401+87	8400+87	8504+87
PR-10-2	2TS - 17	P 4TS	8600+87*	9203+87	9202+87	9223+87
PR-10-2	4TS - 15	P 2TS	9202+87*	8618+87	8600+87	8640+87
300-1	FT			9103+76	9102+76	9125+76
300-2	2TS - 17			9203+76	9202+76	9223+76
300-2	4TS			8618+76	8600+76	8701+76
300-4	4CH 1/2" - 17			9465	9464	9472

*Optional 4th position Playback Head

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
AMPEX (Continued)						
350-1	FT			9103+76	9102+76	9125+76
350-2	2TS - 17			9203+76	9202+76	9223+76
350-2	4TS			8618+76	8600+76	8701+76
350-4	4CH 1/2" - 17			9465	9464	9472
351-1	FT			9103+76	9102+76	9125+76
351-2	2TS - 17			9203+76	9202+76	9223+76
351-2	4TS			8618+76	8600+76	8701+76
354-1	FT - 15			9103+76	9102+76	9125+76
354-2	2TS - 17			9203+76	9202+76	9223+76
354-2	4TS - 15			8618+76	8600+87	8640+76
400	FT			9103+76	9102+76	9125+76
400	2TS - 17			9203+76	9202+76	9223+76
401	FT			9103+76	9102+76	9125+76
401	2TS - 17			9203+76	9202+76	9223+76
450	2TS				9202+35	
450	4TS	P			8600+35	
600	FT - 15			9103+92	9102+92	9125+92
600	2TM - 17			8401+92	8400+92	9223+92
601	FT - 15			9103+92	9102+92	9125+92
601	2TM - 17			8401+92	8400+92	9223+92
601-2	2TS - 15			9203+92	9202+92	9223+92
602-1	FT - 15, 37			9103+86	9102+86	9125+86
602-1	2TM - 17, 37			8401+86	8400+86	9223+86
602-2	2TS - 17, 37			9203+86	9202+86	9223+86
900 Series	FT - 32, 15			9103+86	9102+86	9125+86
900 Series	2TM - 32, 15			8401+86	8400+86	9223+86
900 Series	2TS - 32, 17			9203+86	9202+86	9223+86
900 Series	4TS - 32, 15			8604+86	8600+86	8701+86
1200	2TS - 15			9203+86	9202+86	9222+86
1200	4TS - 15			8604+86	8608+86	8640+86
1250	2TS - 15			9203+86	9202+86	9222+86
1250	4TS - 15			8604+86	8608+86	8640+86
CUEMASTER (CONSOLIDATED ELECTRONICS CEPAK)						
MK III	FT			9103	9102	PRB1EF14
MK IV	FT			9103	9102	PRB1EF14
MK V	FT			9109	9119	8109
MK V	2TS			9209	9213	8309
CONCERTONE (BERLANT)						
AV102	FT - 4			9111+106	9100+106	4400+304
AV102	2M - 4			8401+106	2600+106	3600+304
AV102	2S - 4			2003+106	2000+106	2200+106
AV102	4S - 4			1203+106	1200+106	1400+304
AV102	3C - 4, 11			5702+106	5701+106	8101+106
AV102	4C - 4, 11			5601+106	5603+106	8101+106
BA-1	FT			9111+106	9111+106	4400+304
BA-1	2M			8401+106	2600+206	3600+304
BA-1	2S			2003+106	2000+106	2200+106
BA-1	4S			1203+106	1200+106	1400+304
BA-1	3C - 4, 11			5702+106	5701+106	8101+106
BA-1	4C - 4, 11			5601+106	5603+106	8101+106
BAX	FT - 4			9105+106	9111+106	4400+304
BAX	2M			8401+106	2600+106	3600+304
BAX	2S			2003+106	2000+106	2200+106
BAX	4S			1203+106	1200+106	1400+304
BRX	4S			1203+106	1200+106	1400+304
BRX	FT			9105+106	9111+106	4400+304
BRX	2M			8401+106	2600+106	3600+304
BRX	2S			2003+106	2000+106	2200+106
BRX	4S			1203+106	1200+106	1400+304
BRXD5-5	FT			9105+106	9111+106	4400+304
BRXD5-5	2M - 4			8401+106	2600+106	3600+304
BRXD5-5	2S			2003+106	2000+106	2200+106
BRXD5-5	4S - 4			1203+106	1200+106	1400+304
BRX-P	FT - 4			9105+106	9111+106	4400+304
BRX-P	2M - 4			8401+106	2600+106	3600+304
BRX-P	2S - 4			2003+106	2000+106	2200+106
BRX-P	4S - 4			1203+106	1200+106	1400+304
BRX-1	FT			9105+106	9111+106	4400+304
BRX-1	2M			8401+106	2600+106	3600+304
BRX-1	2S			2003+106	2000+106	2200+106
BRX-1	4S			1203+106	1200+106	1400+304
C-540-IGM	2M				2601+84	NONE
MARK VII	FT			9105+106	9111+106	4400+304
MARK VII	2M			8401+106	2600+106	3600+304
MARK VII	2S			2003+106	2000+106	2200+304

Tape Head Replacements for: Reel-to-Reel

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
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MAGNACORD (TELEX) (Continued)

1022	4S			8602	8607	8702
1024	4S			9204+88	9202+88	9228+88
1028	2S			8604+88	8600+88	
1048	4S					

MCI

JH16	16CH 2"			9993	9994	9997
JH16-8	8CH 1"			9885	9886	9891
JH24	24CH 2"			9983	9984	9987
JH24-16	16CH 2"			9993	9994	9997
JH-110	FT 1/4"			9104	9117	9126
JH-120	2S 1/4"			9204	9216	9222
JH-140	4CH 1/2"			9467	9468	9473

METROTECH

400L	8T 1/4"			5833	5832	
514A	2TM				8209	
514P	2TM	P			8209	
516A	4CH, 4T	P			8601	
516LP	4CH, 4T	P			8601	
516P	4CH, 4T	P			8601	
523A	2TS	P			8209	
523P	2TS	P			8209	
525A	4TS	P			8601	
525P	4TS	P			8601	
526A	4TS	P			8601	
526LP	4TS	P			8601	
526P	4TS	P			8601	
527AL	4TS	P			8601	
527LP	4TS	P			8601	
531A	FT			9103	9119	4401
531R	FT			9103	9119	4401
533A	2TM			6104	8209	
533R	2TM			6104	8209	
534A	2TM			6104	8209	
534R	2TM			6104	8209	
543A	2TS			6104	8209	
543R	2TS			6104	8209	
545A	4TS			6007	8601	
545R	4TS			6007	8601	
546A	4TS			6007	8601	
546R	4TS			6007	8601	
547A	4TS			6007	8601	
547R	4TS			6007	8601	
552A	1CH, 4T			6007	8601	
552L	1CH, 4T			6007	8601	
554A	2CH, 4T			6007	8601	
554L	2CH, 4T			6007	8601	
555A	4CH, 4T			6007	8601	
555L	4CH, 4T			6007	8601	

3M (See WOLLENSAK)

NEWCOMB

AV-70M	2S	RP	2050			2250
SM-310	2S	RP	2050			2250
SM-310-4	4S	RP	1250			1450
TX10-4	4S	RP	1250			1450

PRESTO

CDR	2M				8403+35	
PB-17	2M				8403+35	
PT-900	FT			9103+35	9106+35	8106+35
PT-900	2M			8401+35	8402+35	8501+35
RC-10	FT			9103+35	9106+35	8106+35
RC-10	2M			8401+35	8402+35	8501+35
RC-24	FT			9103+35	9106+35	8106+35
RC-24	2M			8401+35	8402+35	8501+35
RD 175	2M				8400+38	8501+38
825	2S				8208+35	
625	4S				8601+35	
800	FT			9103+35	9111+35	8102+35
800	2M			8401+35	8406+35	8302+35
800	2S			8201+35	8208+35	8302+35
800	4S			8604+35	8601+35	8702+35
825	FT			9103+35	9111+35	8102+35
825	2M			8401+35	8406+35	8302+35
825	2S			8201+35	8208+35	8302+35
825	4S			8604+35	8601+35	8702+35
850	FT			9103+35	9111+35	8102+35
850	2M			8401+35	8406+35	8302+35
850	2S			8201+35	8208+35	8302+35
850	4S			8604+35	8601+35	8702+35

RCA (See also Section E)

RT-21	FT			9107	9108	8110
RT-21	2S			8206	8205	8307
TP-66	16 mm	P			4951	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
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REVOX

A-77	FT - 34			9103+87	9111+87	
A-77	2S - 34			9203+87	9211+87	
A-77	4S - 34			8604+87	8607+87	
D36.E36.F36.G36	FT - 35			9105+87	9102+87	
D36.E36.F36.G36	2S - 35			9205+87	9202+87	
D36.E36.F36.G36	4S - 35			8603+87	8600+87	

SCHAFFER (See also Section E)

AL-330				1222	1221	
VLR Logger				1222	8601	

SCULLY (SCULLY/METROTECH) See Ref. Note 36

100-8	8CH 1"	RPE	9887		(2-HEAD NEST)	
100-12	12CH 1"	RPE	9982		(2-HEAD NEST)	
100-16	16CH 2"	RPE	9998		(2-HEAD NEST)	
270	FT 1/4"	P			9102+91	
270	2TM 1/4" - 16	P			8200+91	
270	2TS 1/4" - 16	P			8200+91	
270	4TS 1/4"	P			8600+91	
270	4CH 1/4"	P			5603+91	
275	FT 1/4"	P			9102+91	
275-1	2TM 1/4" - 16	P			8200+91	
275-2	2TS 1/4" - 16	P			8200+91	
275-4	4TS 1/4"	P			8600+91	
275-44	4CH 1/4"	P			5603+91	
280	FT 1/4"			9104+91	9102+91	9128+91
280-1	2TM 1/4" - 16			9204+91	9202+91	9223+91
280-2	2TS 1/4" - 16			9204+91	9202+91	9223+91
280-4	4TS 1/4"			8618+91	8600+91	8702+91
280-44	4CH 1/4"			5607+91	5601+91	
2808-FT	FT 1/4"			9104+91	9110+91	9128+91
2808-1	2TM 1/4"			9209+91	9211+91	9223+91
2808-2	2TS 1/4"			9209+91	9211+91	9223+91
2808-4	4CH 1/2"			9469	9476	9470
2808-24	4TS 1/4"			8618+91	8606+91	8702+91
2808-44	4CH 1/4"			5607+91	5602+91	
282-3	3CH 1/2"			9361	9360	9370
282-4	4CH 1/2"			9461	9460	9470
284-8	8CH 1"			9881	9880	9890
288-8	8CH 1"			9881	9880	9890
288-12	12CH 1"			9981	9980	9986
288-16	16CH 2"			9992	9990	9996
288-24	24CH 2"			9983	9984	9987

L. J. SCULLY

LJ-10	2TM	P			9202	
LJ-10	2TS	P			9202	
LJ-10	4TS	P			8600	

STANCIL-HOFFMAN

R70/ARP76	FT			9105	9111	9125
R70/ARP76	2TM			8404	8403	8504
R70/ARP76	2TS			9205	9213	9226
R70/ARP76	4TS			8603	8608	8701
R70/ARP76	4CH			5601	5603	

TAPE-ATHON

CT-1	2TM	P			Pair Heads 7405D	
CT-375	2TM	P			Pair Heads 7405D	
CT-702	2TM	P			Pair Heads 7405D	
CT-702	4TS	P			1201+66	
900	FT			9103+66	9119+66	9125+66
900-1	2TM			8401+66	8403+66	9222+66
900-2	2TS			9203+66	9213+66	9222+66
900-4	4TS			8604+66	8608+66	8701+66
900-L2	2T			9203+66	9213+66	9222+66
900-L2-8	8T 2CH			5832+66	5832+66	
900-L4	4T			8604+66	8608+66	8701+66
900-L4-4	4T			8604+66	8608+66	8701+66
900-L4-8	8T 4CH			5832+66	5832+66	
900-L8	8T			5832+66	5832+66	
900-L8-8	8T			5832+66	5832+66	
1000	FT			9103+66	9119+66	9125+66
1400	FT			9103+66	9119+66	9125+66

TEAC

TCA40	4CH			5604+84	5603+84	
TCA41	4CH			5604+84	5603+84	
TCA42	4CH			5604+84	5603+84	
105	FT			9103+84	9119+84	9128+66
105	2TS			9203+84	9213+84	9223+66

Tape Head Replacements for: Reel-to-Reel

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & Qk	Record Head & QK	Playback Head & QK	Erase Head & QK
TEAC (Continued)						
105	4TS			8604+84	8608+84	8708+66
110	FT			9103+84	9119+84	9128+66
110	2TS			9203+84	9213+84	9223+66
110	4TS			8604+84	8608+84	8708+66
200	4CH			5604+84	5603+84	
310	FT			9103+84	9119+84	9128+66
310	2TS			9203+84	9213+84	9223+66
310	4TS			8604+84	8608+84	8708+66
340	FT			9103+84	9119+84	9128+66
340	2TS			9203+84	9213+84	9226+66
340	4TS			8604+84	8607+84	8640+66
410	4CH			5604+84	5603+84	
505	FT			9103+84	9119+84	9128+66
505	2TS			9203+84	9213+84	9223+66
505	4TS			8604+84	8608+84	8708+66
700S	FT			9103+84	9111+84	
1000	2TS			9205+84	9213+84	9226+66
1000	4TS			8604+84	8608+84	8640+66
1200	2TS			9205+84	9207+84	9226+66
1200	4TS			8604+84	8606+84	8701+66
1230	4TS			8604+84	8608+84	8640+66
1250	4TS	RE	6006+84		8607+84	
1300	4TS	RE	6006+84		8607+84	
1340	4CH			5604+84	5603+84	
1400	4TS			8604+84	8608+84	
1500	2TS			9203+84	9207+84	9226+66
1500	4TS			8604+84	8606+84	8640+66
1600	2TS			9203+84	9207+84	9226+66
1600	4TS			8604+84	8606+84	8640+66
2010	4TS	RP	8606+84			8640+66
2020	4TS	RP	8606+84			8640+66
2040	4TS	RP	8606+84			8640+66
2050	4TS	RP	8606+84			8640+66
2070	4TS	RP	8606+84			8640+66
2080	4TS	RP	8606+84			8640+66
2100	2TS			9205+84	9207+84	9226+66
2100	4TS			8604+84	8607+84	8640+66
2300	2TS			9205+84	9207+84	9226+66
2300	4TS			8604+84	8607+84	8640+66
2300S	2TS			9205+84	9207+84	9226+66
2300S	4TS			8604+84	8607+84	8640+66
2340	4CH			5604+84	5603+84	
2340R	4CH			5604+84	5603+84	
2500	4TS	RE	6006+84		8607+84	
2520	4TS	RE	6006+84		8607+84	
3300	2TS			9205+84	9213+84	9226+66
3300	4TS			8604+84	8607+84	8640+66
3300S	2TS			9205+84	9213+84	9226+66
3300S	4TS			8604+84	8607+84	8640+66
3340	4CH			5604+84	5603+84	
3340S	4CH			5604+84	5603+84	
4010	FT			9103+84	9119+84	8106+66
4010	2TS			9203+84	9213+84	9226+66
4010	4TS - 24			8604+84	8606+84	8640+66

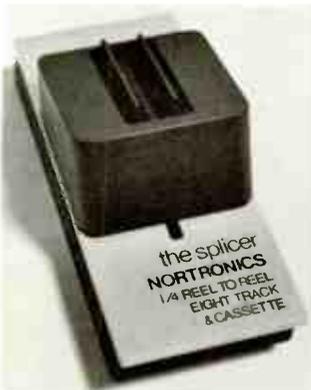
Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
TEAC (Continued)						
4010GSL	FT			9103+84	9119+84	8106+66
4010GSL	2TS			9203+84	9213+84	9226+66
4010GSL	4TS - 24			8604+84	8606+84	8640+66
4010S	FT			9103+84	9119+84	8106+66
4010S	2TS			9203+84	9213+84	9226+66
4010S	4TS - 24			8604+84	8606+84	8640+66
4010SRA	4CH			5604+84	5603+84	
4020	4TS	RP	8606+84			8640+66
4070	4TS	RE	6006+84			8607+84
4070G	4TS	RE	6006+84			8607+84
4300	4TS			8604+84	8608+84	8640+66
5010	4TS			8604+84	8608+84	8640+66
5300	4TS			8604+84	8608+84	8640+66
5500	4TS			8604+84	8608+84	8640+66
6000	2TS			9203+84	9213+84	9226+66
6000	4TS			8604+84	8608+84	8640+66
6010	4TS - 24			8604+84	8607+84	8640+66
7010GSL	2TS			9203+84	9207+84	9226+66
7010GSL	4TS			8604+84	8607+84	8640+66
7030GSL	2TS			9203+84	9207+84	9226+66
7030GSL	4TS			8604+84	8607+84	8640+66
7040	4CH			5604+84	5603+84	

VIKING (TELEX)

35	FT	RP	9161			4450
35	2TM	RP	3251			3650
35	2TS	RP	2051			2250
35	4TS	RP	1251			1450
36	FT	RP	9161			4450
36	2TM	RP	3251			3650
36	2TS	RP	2051			2250
36	4TS	RP	1251			1450
38	FT	RP	9161			4450
38	2TM	RP	3251			3650
38	2TS	RP	2051			2250
38	4TS	RP	1251			1450
Studio 96	FT - 25			9105	9111	4400L
Studio 96	2TM - 25			3205	3201	3600L
Studio 96	2TS - 25			2005	9213	2200L
Studio 96	4TS - 25			1205	8608	1400L
Studio 96	FT - 26			9105	9111	4401L
Studio 96	2TM - 26			3203	3201	3601L
Studio 96	2TS - 26			9205	9213	2201L
Studio 96	4TS - 26			1203	8608	1401L
230	FT			9105	9111	4401L
230	2TM			3203	3201	3601L
230	2TS			2003	2001	2201L
230	4TS			1203	1201	1401L

NORTRONICS INTRODUCES . . . the splicer AND reel tabs

Designed for quick, effortless splicing and editing, this combination of products makes a perfect splice without tedious cutting, aligning or trimming. **the splicer**, with its built-in block, holds either cassette or 1/4" tape perfectly "in-line" while its cutting edge slices rather than chops the tape. **reel tabs**, in their dispenser box, peel off one at a time. The convenient carrier allows you to position and secure the tab to the splice without touching the adhesive. When the carrier is removed no additional trimming is required.



the splicer - 1/4" Reel to Reel,
QM333 8 Track and Cassette

reel tabs - 1/4" Mylar
QM521 - Qty. 50/Pkg.
QM526 - Qty. 200/Pkg.
QM531 - Qty. 1,000/Pkg.

reel tabs - Cassette Mylar
QM522 - Qty. 50/Pkg.
QM527 - Qty. 200/Pkg.
QM532 - Qty. 1,000/Pkg.

reel tabs - 1/4" Metal-Sensing
QM524 - Qty. 50/Pkg.
QM529 - Qty. 200/Pkg.
QM534 - Qty. 1,000/Pkg.

Nortronics Tape Head Replacements and Conversion Guide for: Broadcast Cartridge Recorders

SECTION B



INTRODUCTION

The cartridge machines used in the broadcast field have traditionally used tape heads with a rear-mounted stud. The Nortronics Company pioneered the use of no-mount heads in these units to reduce the initial cost of the heads, to cut down installation time on replacement, and to provide micrometer adjustments where necessary to properly align the heads for cartridge use.

There have been other versions of the original Quik-Kits pioneered by Nortronics, and some manufacturers are still using rear-mounted heads. Most of the cartridge machines do use Nortronics heads as original equipment, but please check your cartridge unit to determine which mounting style is being used before ordering replacement heads. It should be remembered that machines already using no-mount heads will require no Quik-Kit.

A few words of explanation might be in order for a better understanding of the replacements and conversions offered for your use.

QUIK-KITS

A cartridge machine using rear-mount style heads can be adapted to no-mount heads through the use of Nortronics Quik-Kits as follows:

QK-114 installs two no-mount B-size dual channel heads for monophonic use or two no-mount three channel heads for stereo operation. The left head is for recording. The right head is for playback. Mounts heads similar to 2000 series, in "B-size" case.

QK-115 installs two no-mount G-size monophonic two track heads (see monitor conversion information). Mounts heads similar to 3000 series.

QK-117 installs one no-mount monophonic head and one no-mount dual channel head, and provides the advantages of monitoring program material during recording (see monitor conversion information). Requires one head similar to 2000 series, and one head similar to 3000 series.

The above Quik-Kits come completely assembled and semi-aligned. A cartridge hold-down spring and guide rail are included. A Nortronics head alignment card, Form 7195 is packed with each kit, plus a template for proper positioning of the mounting bracket.

QK-110 installs two B-size no-mount dual channel heads for monophonic use or two no-mount three channel heads for stereo operation. The left head is for recording. The right head is for playback. Requires heads similar to 2000 series. A third head may be added by using a QK-112.

QK-111 installs two G-size no-mount monophonic two track heads. Requires head similar to 3000 series. A third head may be added by using QK-113.

The QK-110 and QK-111 may be used where it is necessary to mount three heads instead of the normal two heads. These kits are neither pre-assembled nor prealigned, but do include the cartridge hold down spring and guide rail. A Nortronics head alignment card is packaged with each kit, plus a template for proper positioning of the mounting bracket.

NAB CONVERSION

As all professional users of tape equipment know, superior results can be achieved by using a special record-only head plus a separate playback head. Professionals also appreciate the ability to monitor a tape as it is being recorded. Nortronics offers a conversion to NAB Standard or monitor operation for those who prefer these features and desire to update their cartridge machines.

Write to Nortronics Customer Service Department for "NAB CONVERSION" information. Give make and model of recorder.

CAUTION

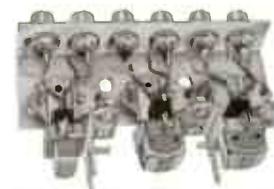
Care should be taken to avoid striking the face of the tape heads with any hard object and this does include the cartridge itself. The surface of the tape head can be easily gouged or damaged by such contacts. The use of the hold down spring and guide rail, in all cases, is highly recommended.

Excessive head wear can be caused by cartridge pressure pads that exert too much force on the heads. The pressure of the pads should be adjusted to provide just a kiss of the tape to the gap of the tape head. The Nortronics tape heads have a hyperbolic face and do not require the pressure or wrap necessary for older cylindrical faced heads. Unnecessary pressure contributes nothing — but does wear heads more rapidly.

QK 114, 115, 117 Type
2-Head Nests



QK 110, 111 Type
3-Head Nests



QK-110 } Use with "B" size: No-Mount series 1000, 1200, 2000,
QK-114 } 2600, 5600, 5700, 5800, 8000, 9000, etc.

QK-111 } Use with "G" size: No-Mount series 3000 and 3200.
QK-115 }

GK-117 Use 1 "B" size No-Mount series and 1 "G" size No-Mount series.

QK-112 Individual head Mounting Bracket for "B" size No-Mount series.

QK-113 Individual head Mounting Bracket for "G" size No-Mount series.

Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT		SPECIAL NOTES
	Mfg. Head No.	Head Function	Mount	Original Head	No-Mount Conversion	
AMPRO (INSTATAPE)						
CT-2500, CT-3500, CT-4500 Series Mono	9086-1 9103-1	Record-Program & Cue Play-Program & Cue	No Mount	2010 2001		Play machines have no record head.
CT-2500, CT-3500, CT-4500 Series Stereo	9085-1 9102-1	Record-Program & Cue Play-Program & Cue	No Mount	5710 5701		
ATC (GATES)						
CP11, CP12, CP13 Mono	20-1014 20-1011	Record-Program & Cue Play-Program & Cue	Rear Mount	2053 2057	2003 2007 } 114*	*A Quik-Kit is not required if the machine was equipped with No-Mount heads.
CP21, CP22, CP23, CPR23 Stereo	20-1016 20-1015	Record-Program & Cue Play-Program & Cue	Rear Mount	5753 5757	5703 5707 } 114*	
P150, P190, PB150, PB190 PC150, PC190 Mono	20-1001 20-1001	Record/Play-Program Record/Play-Cue	Rear Mount	3251 3250	3201 3200 } 115*	Requires circuit modification. See Nortronics Form No. 7213.
CUEMASTER (CONSOLIDATED ELECTRONICS CEPAK)						
CT85 751, 753, 754, 756 757, 903, 906 Mono		Erase Record-Pgm. & Cue Playback-Pgm. & Cue		6151 2050		Play only machines need no record head.
983-986 Stereo		Record-Pgm. & Cue Playback-Pgm. & Cue		5753 5751		Play only model 986 requires no record head.
COLLINS						
P150, P190, PB150, PB190 Mono	235-0012 235-0012	Record/Play-Program Record/Play-Cue	Rear Mount	3251 3250	3201 3200 } 115	Requires circuit modification. See Nortronics Form No. 7213.
642A-1, 642A-2 Mono	235-0012 235-0012	Record/Play-Program Record/Play-Cue	Rear Mount	3251 3250	3201 3201 } 115	
642E-1 Mono	020-8000-040 020-8000-030	Record-Program & Cue Play-Program & Cue	No Mount	2003 2007*		*Play-only machines need no record head.
642E-2 Stereo	020-8000-010 020-8000-020	Record/Program & Cue Play/Program & Cue	No Mount	5703 5707*		
GARRON (RAPID-Q)						
RQ-71 and RQ-3000 Series Mono		Record-Program & Cue Play-Program & Cue	No Mount	2003 2002*		*Play-only machines need no record head.
RQ-71 and RQ-3000 Series Stereo		Record-Program & Cue Play-Program & Cue	No Mount	5703 5702*		
GATES						
M5944 Mono	730-0329 730-0330	Record/Play-Program Record/Play & Cue	Rear Mount	3251 3250	3201 3200 } 115	
M6211 (Play Only) Mono	730-0343 } 730-0423 }	Play-Program & Cue	Rear Mount	2052	2002+114	
M6212, M6214 Stereo	730-0726 730-0727	Record-Program & Cue Play-Program & Cue	Rear Mount	5753 5751*	5703 5701 } 114	*Play-only machines need no record head.
M6211, M6213 Mono	730-0343 730-0423	Record-Program & Cue Play-Program & Cue	Rear Mount	2052 2052*	2002 } 114 2002 }	
Criterion (Compact) (Play Only) 6794, 6815 Mono	730-1376 730-1371	Mono Playback Stereo Playback	No Mount	2007* 5707*		Quik-Kit conversion to No-Mount heads is not recommended.
Criterion I, 80 Mono CPD-811, MPD-811 Mono	730-1155 730-1153	Record-Program & Cue Play-Program & Cue	Rear Mount	2053 2057*		*Play-only machines need no record head.
Criterion I, 80 Stereo CPD-821, MPD-821 Stereo	730-1157 730-1156	Record-Program & Cue Play-Program & Cue	Rear Mount	5753 5757*		
Additional Gates Part Numbers in Section E.						

Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT		SPECIAL NOTES
	Mfg. Head No.	Head Function	Mount	Original Head	No-Mount Conversion	

INTERNATIONAL TAPETRONICS

Encore Series	Mono	504-0006 504-0001 504-0003	Playback Dummy Head Record	No Mount	2001 7605* 2003		*Play-only machines substitute dummy head for record.
3D-0001, 3D-0003	Mono	504-0002 504-0001	Playback Dummy Head	No Mount	2001 7605*		
3D-0002, 3D-0004	Stereo	504-0004 504-0001	Playback Dummy Head	No Mount	5701 7605*		
SP-0001, SP-0003, SP-0005 (WP Series also)	Mono	504-0002 504-0001	Playback Dummy Head	No Mount	2001 7605*		
SP-0002, SP-0004, SP-0006, (WP Series also)	Stereo	504-0004 504-0001	Playback Dummy Head	No Mount	5701 7605*		
RP-0001, RP-0003, RP-0005	Mono	504-0004 504-0002	Record Playback	No Mount	2003 2001		
RP-0002, RP-0004, RP-0006	Stereo	504-0005 504-0004	Record Playback	No Mount	5703 5701		

MACARTA (Moulic Specialties) (Also SMC Corp.)

105/108 Playback 2405/2408 Carousels	Mono	P-G1H7K P-G1H7K	Play-Program Play-Cue	Rear Mount	3251 3251	3201 } 3201 } ¹¹⁵	*QK-114 needed if machine has rear-mount heads.
208 Stereo Playback 4T Stereo		P-B2Q7K	Play-Program	No Mount	1201	*	
248, 250 Carousel, 500, 501 Play-only	Mono	P-B2H2K	Play-Program & Cue	No Mount	2000	*	
510, 710 Play	Mono	P-B2H2K	Play-Program & Cue	No Mount	2000	*	
248-2, 250, 502, 512, 572, 712 Play	Stereo	P-B3Q7K	Play-Program & Cue	No Mount	5701	*	
560, 570	Mono		Record Play	Rear Mount	3255 2050	2005 } 2000 } ¹¹⁴	
570, 590, 770, 790	Mono	P-B2H4R P-B2H2K	Record-Program & Cue Play-Program & Cue	No Mount	2003 2000	*	
248, 252, 348, 352, 592, 792	Stereo	P-B3Q4R P-B3Q7K	Record-Program & Cue Play-Program & Cue	No Mount	5703 5701	*	
593, 793	Delay	A1HC44R G1H2K	Erase-Record-Program Play-Program	No Mount	6126 3000	*	

RCA

RT-7A	Mono	223320 223320	Record/Play-Program Record/Play & Cue	Rear Mount	3251 3251	3201 } 3201 } ¹¹⁵	The program head is next to the capstan.
RT-7B, RT-7C, RT-7D	Mono	226517 223320	Record/Play-Program Record/Play & Cue	Rear Mount	3252 3251	3202 } 3201 } ¹¹⁵	
RT-8, RT-17, RT-27	Mono	231290 231290	Record-Program & Cue Play-Program & Cue	Rear Mount	2052 2051		Quik-Kit conversion to No- Mount heads is not recom- mended.
RT-8, RT-27, RT-37	Stereo	231289 231289	Record-Program & Cue Play-Program & Cue	Rear Mount	5752 5752		
RT-125, RT-126, RT-127 Play	Mono		Play-Program & Cue	No Mount	2001		
RT-125S, RT-126S, RT-127S Play	Stereo		Play-Program & Cue	No Mount	5701		
RT-126R, RT-127R Record and Play	Mono		Record-Program & Cue Play-Program & Cue	No Mount	2010 2001		
RT-126SR, RT-127SR Record and Play	Stereo		Record-Program & Cue Play-Program & Cue	No Mount	5710 5701		

Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT		SPECIAL NOTES
	Mfg. Head No.	Head Function	Mount	Original Head	No-Mount Conversion	

SCHAFFER

Audiofile	Mono	P-B2H4R P-B2H7K	Record-Program & Cue Play-Program & Cue	No Mount	2003 2001		
Audiofile	Stereo	P-B3Q4R P-B3Q7K	Record-Program & Cue Play-Program & Cue	No Mount	5703 5701		

SPARTA

CD 15-2	Delay	895-0030 895-0020	R/P/E (Combo Head) Play	No Mount	6127 2001	QK-114 ²	NOTES: 1. Playback units take play head only. 2. Early units with rear mount heads need QK.
BP11, BP22, BP22B, BP22C, CP-5, Play, Port.	Mono	895-0024	Play-Program & Cue	Side Mount	2001+38		
200P, 200RP, 300P, 300RP	Mono	895-0022 895-0022	Record/Play-Program Record/Play-Cue	Rear Mount	3251 3251	3201 } 3201 } ¹¹⁵	
MC104, 300B, 300C, 400P, 400RP, 800P, 800RP, 4510, 4515, 4610, 4615	Mono	895-0010 895-0020	Record-Program & Cue Play-Program & Cue	No Mount	2003 2001 ¹		
MC204, 200P, 200RP 600P, 600RP, 4520, 4620, 4625	Stereo	895-0040 895-0042	Record-Program & Cue Play-Program & Cue	No Mount	5703 5701 ¹	QK-114 ²	

SPOTMASTER (BROADCAST ELECTRONICS)

2 Channel Heads 303C, 303D; 305C, 305D; 400A, 400B; 405A, 405B; 500B, 500BR, 500C, 500C/A, 500CR, 500D, 500D/A, 500DR; 505B, 505BR, 505C, 505C/A, 505CR, 505D, 505D/A, 505DR; 605B, 605C; 610A, 610BR, 610BX, 610CR, 610CX; Three/70; 1070P, 1070RP	Mono	DM2RB DM1B ¹	Record-Program & Cue Play-Program & Cue	Rear Mount	2053 2051 ¹		NOTES: 1. Play units take play head only. 2. Special narrow (3/8") "C" size heads – use to replace same on certain recent units. 3. "Phase-Loc" C-size, stereo record head. 4. Conversion not recommended. 5. Additional Spotmaster part numbers given in Section E.
		DM2RC ² DM1C ²	Record-Program & Cue Play-Program & Cue	Rear Mount	7252 ² 7251 ²	4	
	5						
3 Channel Heads 303C, 303D; 305C, 305D; 500ARS, 500AS, 500BS, 500BRS, 500CRS, 500CS; 1070RP-S	Stereo	DM3RB D1SA ¹	Record-Program & Cue Play-Program & Cue	Rear Mount	5753 5751 ¹		
		DM3RC ³	Record-Program & Cue	Rear Mount	7253 ³	4	
2 Channel Heads 500ADL, 500CDL, 500CRDL, 500DDL, 500DRDL; 1070RP-DL	Delay	DL2B DM1B	Erase-Record Play-Program & Cue	Rear Mount	6151 2051	4	

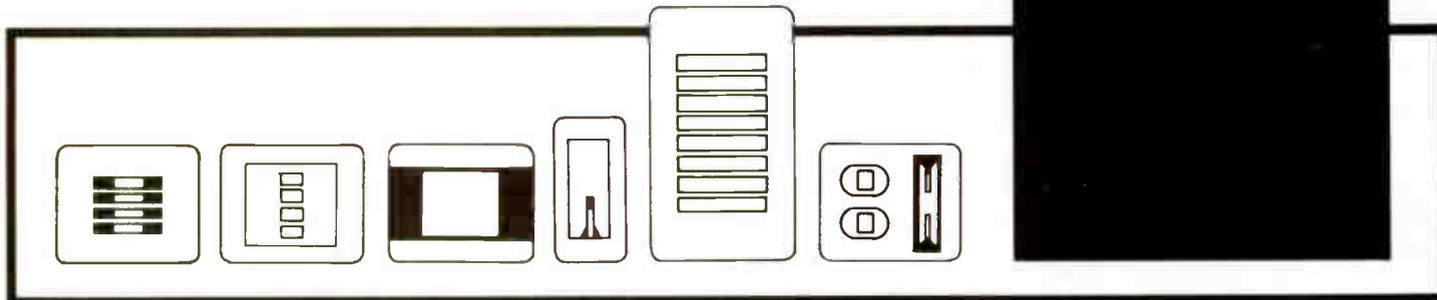
TAPECASTER

600P, 600RP	Mono	P-G1H7K-R G1H2K-R	Record/Play-Program Record/Play-Cue	Rear Mount	3251 3250	3201 } 3200 } ¹¹⁵	Older vacuum tube models will take the same heads listed. NOTES: 1. Mono record and play heads are same type. 2. Play-only and stereo machines have dummy head in left position. 3. Either "R" (short stud) or "R6" (long stud) rear mount heads will fit 700 series. 4. Only "R6" (long stud) heads will fit X700 series and precision head bracket.
700P, 700RP	Mono	P-B2H7K-R ³ P-B2H7K-R6	Record & Play ^{1,2} (2 heads, same)	Rear Mount	2051 ¹ or 2056	2001 ¹ } 2001 } ¹¹⁴	
700PS, 700RPS	Stereo	P-B3Q7K-R ³ P-B3Q7K-R6	R/P-Program & Cue ² (1 head only) ²	Rear Mount	5751 or 5754	5701+114	
X700P, X700RP	Mono	P-B2H7K-R6 ⁴ P-B2H7K-R6	Record-Program & Cue Play-Program & Cue ²	Rear Mount	2056 ⁴ 2056		
X700PS, X700RPS	Stereo	P-B3Q7K-R6 ⁴	R/P-Program & Cue ² (1 head only)	Rear Mount	5754 ⁴		
700RPD, X700RPD	Delay	P-A2H47K-R6 ⁴ P-B2H7K-R6	Rec/Erase-Prog. & Cue Play-Program & Cue	Rear Mount	6152 2056		
Dummy Head ² (used on Mono-play and on Stereo units)				Rear Mount	7655		
				No Mount	7605		

Nortronics Tape Head Replacements for: Duplicators/Copiers

SECTION C

This section lists Nortronics replacement heads by manufacturer's model number of machine. Particular attention should be noted to confirm track style and application. See also Section E.



Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
AMPEX						
PD-10	2TS			9214+87	9211+87	
PD-10	4TS			8614+87	8606+87	
3200	FT			9113+76	9106+76	
3200	2TM			8414+76	8409+76	
3200	2TS			9214+76	9206+76	
3200	4TS			8614+76	8610+76	
3200	8TS, 8TQ			5841+76	5840+76	
3200	2T CAS - 31			5520+76	5221+76	
3200	4T CAS - 31			5212+76	5213+76	
3300	4TS 1/4"	Slave				
3300	2TM CAS	Slave				
3300	4CH CAS	Slave				
3300	8T 1/4"	Slave				

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
BECHT						
BE-900	8T R-R SL			5810*		
BE-910	8T R-R SL			5810*		
BE-1000	8T R-R MAS				5800*	
BE-1010	8T R-R MAS				5800*	
BE-1910	8T CART SL			5841		
BE-2010	8T CART MAS				5842	
BE-2900	4CH CAS SL			5411		
BE-3000	4CH CAS MAS				5410	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
GARNER						
1056	FT R-R			9104	9106	
1056	2T 1/4" R-R			9204	9206	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
INFONICS (VISUAL EDUCOM)						
CC-2	2T C C			5201	5202	
CC-4	4T C C			5411	5413	
CS-2	2T CAS SL			5201		
CS-4	4T CAS SL			5411		
D-8	8T 1/4" R-R			5885	5883	
RC-2	2T 1/4" R-C			5201	8210	
RC-4	4T 1/4" R-C			5411	5606	
RCC-2	2T 1/4" R/C/C	C-PL	5202	5201	8210	
RCC-4	4T 1/4" R/C/C	C-PL	5413	5411	5606	
RR-1	FT 1/4" R-R			9164	9156	
RR-2	2T 1/4" R-R			8251	8260	
RR-4	4T 1/4" R-R			5654	5656	
RS-2	2T 1/4" R SL			8251		
RS-4	4T 1/4" R SL			5654		
74M	FT 1/4" R-R			9153	9156	
74S	2T 1/4" R-R			8251	8260	
102	2T C C			5220	5202	
202AS	2T CAS SL			5220		
202CM	2T CAS MAS				5202	
202CS	2T CAS SL			5220		
202CSS	2T CAS SL			5220		
202RM	2T 1/4" R MAS				8210	
204AS	4T CAS SL			5411		
204CM	4T CAS MAS				5413	
204CS	4T CAS SL			5411		
204CSS	4T CAS SL			5411		
204RM(S)	4CH 1/4" R MAS				5606	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
MAGNECORD (TELEX)						
1000D	2T R-R			9214	9207	
1000D	4TS R-R			1204	8607	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
MAGNEFAX						
Tube Types	FT R-R			9103	2608	
Tube Types	2T 1/4" R-R			9203	9206	
Tube Types	4T 1/4" R-R			5607	5606	
Solid State Types	FT R-R			9104	2608	
Solid State Types	2T 1/4" R-R			9204	9206	
Solid State Types	4T 1/4" R-R			5607	5606	
Solid State Types	2T CAS R-R			5220	9206	
Solid State Types	4T CAS R-R			5412	5606	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
MCA						
521	2T C C			5208	5202	5212

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
PENTAGON						
C 120	2T C C			5201	5202	
C 140	4T C C			5411	5410	
C-320	2T C C			5201	5202	
C 340-8	4T C C			5411	5410	
C 340-12	4T C C			5411	5413	
C1000	2T 1/4" R-C			5201	9210	
C-1320	2T 1/4" R-C			5201	9210	
					5202	
C-1323	2T 1/4" R-C			9203	9210	
				5201	5202	
C-1340-8	4T 1/4" R-C			5411	5606	
					5410	
C-1340 12	4T 1/4" R C			5411	5606	
					5413	
C-1343-8	4T 1/4" R C			5604	5606	
				5411	5410	
C 1343-12	4T 1/4" R C			5604	5606	
				5411	5613	
C-1400	4T 1/4" R-C			5411	5606	
C-5400	4T 1/2" R-C				9468	
CM1200	2T C MAS				5202	
CM 1400 8	4T C MAS				5410	
CM-1400 12	4T C MAS				5413	
CM-1401-8	4T C MAS				5410	
CM 1401-12	4T C MAS				5413	
CM 2000	2T C MAS				5202	
CM 4000 8	4T C C			5411	5410	
CM 4000 12	4T C C			5411	5413	
CS 420	2T C SL			5201		
CS 440	4T C SL			5411		
RM1200	2T R MAS				9210	
RM 1201	2T R MAS				9210	
RM-1400	4T 1/4" R MAS				5606	
RM-1401	4T 1/4" R MAS				5606	
RM-2250	2T 1/4" R MAS				9210	
RM 4250 8	4T 1/4" R MAS				5410	
RM 4250 12	4T 1/4" R MAS				5413	
RM-4500	4T 1/2" R MAS				9468	
RME-2210	2T 1/4" R MAS				9210	
RME-2410	4T 1/4" R MAS				5606	
RME-2810	8T 1/4" R MAS				5840	
RME-2850	8T 1" R MAS				9886	
RMT-2250	2T 1/4" R MAS			9203	9210	

*Four Heads

Nortronics Tape Head Replacements for: Duplicators/Copiers

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
PENTAGON (Continued)						
RMT 4250	4T 1/4" T MAS			5604	5606	
RS 1200	2T CR SL			5201		
RS 1210	2T 1/4" R SL				9203	
RS 1400	4T CR SL			5411		
RS 1410	4T 1/4" R SL			5604		
RS 2150	2T CR SL			5201		
RS 2200	2T 1/4" R SL			9203		
RS 2210	2T 1/4" R SL			9203		
RS 2250	2T 1/4" R SL			9203		
RS 2400	4T 1/4" R SL			5604		
RS-2410	4T 1/4" R SL			5604		
RS 2810	8T 1/4" R SL			5841		
RS 2818	8T 1/4" R SL			5841		
RS 4150	4T CR SL			5411		
S 120	2T C SL			5201		
S 140	4T C SL			5411		
S 1000	2T C SL			5201		
S 1400	4T C SL			5411		
SRCC 2250	2T 1/4" R-C			5201	9210	
					5202	
SRCC 4250-8	4T 1/4" R-C			5411	9210	
					5413	
SRCR 2250	2T 1/4" R-C			9203	9210	
				5201	5202	
SRCR 4250-8	4T 1/4" R-C			5604	5606	
				5411	5410	
SRCR 4250-12	4T 1/4" R-C			5604	5606	
				5411	5413	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
RAWDON-SMITH						
10HNN DUP	2S			8201+35	9206	NSI
1214 D	FT R-R			9103	9106	
1214 S	FT R-R			9103	9106	
1215 D	2T 1/4" R-R			9203	9206	
1215 S	2T 1/4" R-R			9203	9206	
1224 D	FT R-R			9103	9106	
1224 S	FT R-R			9103	9106	
1225-D Stereo 2	2T 1/4" R-R			9203	9206	
1225-S Stereo 2	2T 1/4" R-R			9203	9206	
1225-D Stereo 4	4T 1/4" R-R			5604	5606	
1225-S Stereo 4	4T 1/4" R-R			5604	5606	
3421	2T C-C			5201	5205	
3422	2T C-C			5201	5205	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
RECORDEX						
CS-200	2T C-C			5201	5200	
CS-2000	2T C-C			5201	5200	
CS-2500	2T C-C			5201	5200	
CS-200S	2T CAS SL			5201		
CS-2000S	2T CAS SL			5201		
CS-4000	4T C-C			5411	5410	
CS-4000S	4T CAS SL			5411		
MT 200	2T 1/4" R MAS				8210+38	
MT 2000	2T 1/4" R MAS				8210+38	
MT 4000	4T 1/4" R MAS				8610+38	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
VIKING (TELEX)						
235 Dup.	4TS R-R			1210	1202	
235 Dup.	2TS R-R			2010	2002	
235 Dup.	FT R-R			9103	9110	
235 Dup.	2T C-C			5201	5206	
300 Dup.						
86470-091	2T 1/4" R MAS				9210	
300 Dup.						
86470-093	4TS 1/4" R MAS				8610	
300 Dup.						
86470-094	4CH 1/4" R MAS				5606	
300 Dup.						
86470-095	FT 1/4" R MAS				9106	
300 Dup.						
86476-08X	2T 1/4" R-C			5201	9210	
300 Dup.						
86476-09X	4TS 1/4" R-C			5411	8610	
300 Dup.						
86779-051	4TS R-R			8604	8610	
300 Dup.						
86781-051	2T R-R				9203	9210
300 Dup.						
86782-051	FT R-R				9103	9106
300 Dup.						
86783-051	4CH R-R				5604	5606
300 Dup.						
86835-03X	4CH 1/4" R-C			5411	5606	
300 Dup.						
87110-012	2T C MAS				5206	
300 Dup.						
87110-016	4TS C MAS				5413	
300 Dup.						
87110-020	4CH C MAS				5413	
300 Dup.						
87113-03X	2T C-C			5201	5206	
300 Dup.						
87113-04X	4TS C-C			5411	5413	
300 Dup.						
87113-06X	4CH C-C			5411	5413	
300 Dup.						
87114-037	2T C SL				5201	
300 Dup.						
87114-041	4TS C SL				5411	
300 Dup.						
87114-045	4CH C SL			5411		
Cas. Cop. I						
88201	2T C-C				5220	5222
Cas. Cop. II						
88202	2T C SL				5220	

VISUAL EDUCOM (See INFONICS)

WOLLENSAK — 3M

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
1520AV	2M R-R					
2750AV	2T C MAS					
2760AV	2T C SL			5201	5205	
2770AV	2T C MAS					
2780AV	2T C SL			5220	5221	
6030AV	2T 1/4" R MAS			8210		

QUALITY ACCESSORIES FROM NORTRONICS



AT-120 1/4" Professional Reel-To-Reel Alignment Tape

A professional quality, 7.5 ips, first generation full track master recording. Contains all the tests and tones required to adjust recorders to NAB standards. Clear, concise voice instructions recorded on each tape. Supplied with a detailed instruction booklet. Individual response graph included.



AT-200 Cassette Alignment Tape

A splice-free, first generation master recording which provides zero reference, azimuth alignment and frequency response tests to DIN standards. Individual response graph supplied with each tape. Also includes 3,000 Hz. tone for speed and flutter test. For use with all track configurations.



AT-320 Broadcast Cartridge Alignment Tape

For use with NAB-type endless-loop mono and stereo cartridge recorders and players. First generation master full track recording at 7.5 ips for rapid test and adjustment of head azimuth, program frequency response, program record level, stereo head phasing, cue tone sensitivity and tape speed. Includes detailed instructions.



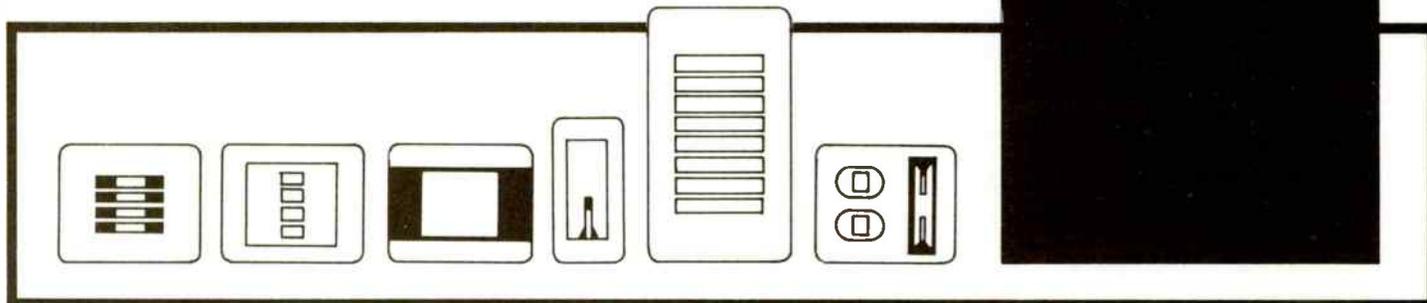
AT-820 8-Track Cartridge Alignment Tape

For rapid test and adjustment of home and auto 8-track cartridge recorders and players. Includes: program and channel identification by voice; track height; azimuth; frequency response, speaker phasing and tape speed. Also checks wow and flutter, switching and crosstalk. Four programs of stereo music included to check overall recorder performance. Includes detailed instructions.

Nortronics Tape Head Replacements for: Specialized Audio

This section covers those unique applications such as aircraft recorders, reverberation units, telephone answering systems, etc. Listing is by manufacturer's machine model number. See also Section E.

SECTION D



Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
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ECHOPLEX (MARKET) (GIBSON-MAESTRO)

EP 2	Tubes			6179	7456	
EP 3	S S			6183	7456	

FAIRCHILD

A 100	4CH 1/4" - 33			5601	5602	4408
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GABLES

G825	2TM				4408	
G1225	4TS				7458	

MOVIOLA (MAGNA SYNC)

M5M	2M	P			4955	
M50	2M	P			7411	
M77	2M	P			7413	
M79	2M	P			4955	
MB4		P			4956	
MB5		P			4956	
MS16	2M	P			7411	
MS35	2M	P			7411	

Model No.	Track Style & Ref. Notes	RP or RPE	RP or RPE Head & QK	Record Head & QK	Playback Head & QK	Erase Head & QK
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MOVIOLA (MAGNA SYNC) (Continued)

SC20	2M	P				7411
SD20	2M	P				7411
SK20	2M	P				7411
SL20	2M	P				7411
SRC	2M	P				7411
SRM16	2M	P				7411
SRM35	2M	P				7411

SCHOBER ORGAN REVERB

RV 3	2TM - 33			7415	7416	4401+18
RV-3A	2TM - 33			7415	7416	4401+18

SUNDSTRAND (UNITED CONTROL)

ATA	4TS					7602
CAM I	4TS					7602
CAM II	4TS					7602
CAM 202	4TS					5602
CVR	FT			9111		7417
200 Series	4TS					5602
400 Series	4TS					5602

QUALITY ACCESSORIES FROM NORTRONICS



QM-202
Professional Head Demagnetizer

For the first time a head demagnetizer with a long, flexible, plastic-covered probe that reaches even the most inaccessible head on all recorders. Fingertip switch deactivates when unit is put down. Attractive Cyclolac® case and convenient coiled AC cord for 110-120 VAC, 50-60 Hz.



QM-211
Professional Bulk Eraser

Industry's most effective, reliable professional bulk eraser. A powerful AC magnetic field erases reels, cassettes and 8-track cartridges to the level of virgin tape. A quality Microswitch™ activates on fingertip pressure and deactivates when the unit is put down. Burn-out proof design with hand-contoured Cyclolac® case. Operates on 110-120 VAC, 50-60 Hz.



QM-108
Liquid Tape/Head Cleaner

Because of size, preferred by Broadcasters, Studios and other commercial users. Popular for both audio and video recorders. Same chemical features as QM-102. 8 oz. net.



QM-116
Spray Tape/Head Cleaner

Used to clean video heads on all video tape recorders and also for cleaning audio recorder heads and parts. Extension tube provided to reach recessed parts and heads. Industrial and commercial users prefer the 16 oz. size.

Cross Reference

Recorder Manufacturer and/or Head Manufacturer's Part Number to Nortronic Replacement Head & Quik-Kit

This section lists head part numbers used by the recorder manufacturer cross-referenced to available Nortronic replacements. In cases where no replacement is possible, the word "NONE" appears in the replacement column. The letters "NSI" in this column indicates that our files do not contain sufficient information to make a head and/or Quik-Kit replacement recommendation.



SECTION E

1. Locate Recorder Manufacturer listed alphabetically.
2. Find exact head number listed alphabetically/numerically.
3. Replacement head and QK Mount, if required, is listed horizontally in adjacent column.

AMPEX	Head & QK
0296170-01	9202+87
0296170-02	9203+87
0296170-03	9223+87
0296170-07	9204+87
0296170-08	9211+87
0296192-01	9102+87
0296192-02	9103+87
0296192-03	9125+87
0296640-01	8600+87
1231757-01	9202+76
1231888-01	9472
1232357-01	9125+86
1232358-01	9103+86
1232359-01	9111+86
1232360-01	9222+86
1232361-01	8401+86
1232362-01	8403+86
1232363-01	8608+86
1232363-02	8604+86
1232363-03	8640+86
1815108-01	9111+87
1815108-02	9104+87
1815109-01	9125+87
1815110-01	9213+87
1815110-02	9203+87
1815111-01	9222+87
1815112-01	8600+87
1815112-02	8604+87
1815112-03	8708+87
1815112-04	8600+87
1815112-05	8605+87
4020228-01	8600+87
4020228-02	8604+87
4020228-03	8701+87
4020284-01	5607
4020285-01	5605
4040076-04	9202+66
4040076-05	9203+66
4040076-06	9223+66
4040084-10	9125+66
4040084-20	9103+66
4040084-30	9102+66
4040084-40	9223+66
4040084-50	8401+66
4040084-60	8400+66
4040323	8701+86
4040324	8604+86
4040325	8600+86
4040426-01	9125+76
4040437-01	9202+76
4040437-02	9203+76
4040437-05	9204+76
4040437-06	9209+76
4040438-51	8400+76
4040438-52	9102+76
4040438-63	9127+76
4040438-64	9125+76
4040438-66	8414+76
4040438-67	9104+76
4040438-68	9109+76
4040558-01	9464
4040558-02	9465
4040558-04	9465
4040558-05	9464
4040564-01	9472
4040684-03	9202+66
4040684-04	9203+66
4040684-05	9223+66
4040684-06	9125+66
4040684-07	9103+66
4040684-08	9102+66
4040684-09	9223+66
4040684-11	8400+66
4040684-12	8401+66
4040737-10	8607+86

AMPEX (Continued)	
4040738-10	1407+86
4040829-01	9127+76
4040829-02	9127+79
4040831-02	9227+79
4040837-01	9222+76
4045042-20	8607+86
4045043-10	8607+86
4350037-01	8609+76
7040015-20	8607+86
7040030	8607+86
7040161-01	8607+86
7040224-01	1203+86

AMPRO (INSTATAPE)	
8209	6103+66
8210	2001+66
9085-1	5710
9086-1	2010
9102-1	5701
9103-1	2001

ATC (GATES)	
20-1001 Pro	3251
20-1001 Cue	3250
20-1010	3251
20-1011	2057
20-1014	2053
20-1015	5757
20-1016	5753
20-1017	2051

AUTOMATIC ELECTRIC (ELECTRONIC SECRETARY)	
WW3253-44	7406+21
WW4430-44	7406+21
WW4446-44	3606+19
WW5392-44	7406+21
WW6604-44	2600
WW6896-44	3200+21
WW7222-44	7406+21
WW8086-44	G1HYSL8-8
WW9454-44	6128

BROADCAST ELECTRONICS (See SPOTMASTER)

BRUSH (CLEVITE)	
8K-1065	8403+35
8K-1072	9213+35
8K-1072R	8301+35
8K-1072R	9203+35
8K-1090	8403+35
8K-1091	8400+35
8K-1110	8501+35
8K-1250	9103+35
8K-1251	9102+35
8K-1252	8102+35

CODE-A-PHONE (FORD)	
L03-011	7406
L03-012	7407
L03-013	7408

CODE-A-PHONE (Cont'd.)	
L03-014	2001
L03-015	4400
L03-018	7461
L03-019	7606
L03-021	6027
L03-022	6301
L03-023	7607
L03-033	2200
L03-039	6302

COLLINS	
020-8000-010	5703
020-8000-020	5707
020-8000-030	2007
020-8000-040	2003
020-8000-010	5602
235-0012-000 Pro	3251
235-0012-000 Cue	3250
235-0412-000	3251
235-0413-000	3251
270-2250-000	2053
270-2251-000	1251
270-2271-010	9106
270-2271-020	P-81HC4K
270-2299-010	4401+19
270-2299-020	5601
270-2299-030	5602

CONCERTONE	
8D-35	1200+106
8H-1	4400+304
8H-3	9105+106
8H-6	2600+106
BT-2	1400+304
8T282	1400+304
8T-3	9105+106
8T-4	1203+106
8T-6	1200+106
8T-22	1400+304
8T-66	3000+106
ND51	1002
ND52	1008
ND53	NONE
THP-102	2601+84
THP-204	1200+84
0113	1402+19
0342	1203+66
04-0014	1401+19
04-0015	1203+66
04-0016	1201+66
04-0055	1408+18
04-0056	1003
04-0057	1002
33T	1203+106
951	2603+83
3754	1200+66
3758	1200+66
10124	2600
105230	4400+304
105231	9105+106
105232	9111+106
105233	3600+304
105234	2603+106
105235 (-1)	2600+106
105236 (-1)	3600+304
105237	1200+106
105238	1203+106
105239	1203+106
105240	2003+106
105241	2000+106

CONCERTONE (Cont'd.)	
105242	1400+304
105243	1400+304
105244	1400+304
105246	1400+304
105247	NONE
105248	NONE
106120	3600+304
106121	4400+304
106122 (-2)	2610+106
106123 (-2)	2010+106
106124	2600+106
106125	2000+106
106126 (-1, -2)	9103+106
106390	9111+106
106438	1200+106
108046	4403+304
108145	2002+106
108245	2002+106
135234	2603
400067	NONE
400068	NONE
700071-1	1200+84
700086-1	8708+84
700087-1	1203+84
700539	1402+19
700543	1203+66
700544	1200+66
700545	2000+66
700547	2202+19
700548	2010+66
700682 RECORD	9105+66
700682 PLAY	9111+66
700683	4402+66

CROWN INTERNATIONAL

ASQ3K	1201+66
ASQ4R	1203+66
SLA3L	2601+66
TLB3	1201+66
1189	6101+66
1190	9103+66
1191	8404+66
1192	9103+66
1193	8608+66
1194	8406+66
1195	8406+66
1196	36D1+19
1197	6004+66
1198	8204+66
1200	8603+66
1201	8106+66
1202	9111+66
1203	9213+66
1204	1401+18
1205	5604+66
1206	5602+66
1207	5603+66
1208	3600+19
1209	9222+66
1210	NONE
1211	NONE
1212	NONE
1621	8209+66
1631	9222+66
1690	8209+66
1705	9111+66
1716	8403+66
1763	8601+66
1785	8201+66
1786	NONE
1787	NONE
1788	NONE
1789	5604+66

Cross Reference

Recorder Manufacturer and/or Head Manufacturer's Part Number to Nortronics Replacement Head & Quik-Kit

CROWN INTERNATIONAL

(Continued)	Head & QK
1790	5603+66
1799	1200+66
1800	6126+66
1801	8208+66
1862	NONE
2065	NONE
2066	8404+66
2171	8601+66
2172	8603+66
2173	8204+66
2174	8208+66
2266	9111+66
2267	9103+66
2383	8209+66
2418	8406+66
2443	5603+66
2459	8608+66
2485	8404+66
2494	8101+66
2501	5603+66
2601A	5603+66
2630	8106+66
2572	8406+66
2578	9111+66
2579	9103+66
2741	8104+66
2750	3600+19
2791	8201+66
2864	5603+66
2901	9213+66
3058	9222+66
3069	9127+66
3086	7605
3088	5603+66
3160	1401+18
3166	1401+19
3167	3601+19
3183	9125+66
3184	9111+66
3328	5603+66
3522	NONE
3602	8640+66

DICTAPHONE

120059	5834
120062	5832
120339	8104
121358	6005
121359	1207
122102	7418
122103	6127
124037	ZJ2L44R
132461	6200
132462	5130
160100	6300
160431	7419

ECHOPLEX (MARKET)

A1HC44R-R	6183
A1HC47R-R	6179
G1HY2K-R	7456

ELECTRONIC SECRETARY (See AUTOMATIC ELECTRIC)

FAIRCHILD

9300-242	4408
9300-245	5602
9300-246	5601
9300-369	9111
9300-500	5833
9300-501	C1LC4K-B3

FENDER

13-1A1HC47R	6129+66
13-2GMH3L	7406+21

FORD INDUSTRIES (See CODE-A-PHONE)

GABLES

P-G2Q7K-R	7658
917365836	7466

GATES (ATC)

730-0304	NONE
730-0305	8501
730-0328	3251
730-0329	3251
730-0330	3250

GATES (ATC) (Continued)

730-0343	2052
730-0423	2052
730-0727	5751
730-0729	2002
730-0730	5703
730-0731	5701
730-1153	2057
730-1155	2053
730-1156	5757
730-1157	5753
730-1158	2051
730-1163	7655
730-1371	5707
730-1375	7605
730-1376	2007
730-1429	2003
730-1439	6103
730-1641	3252
730-1990	3251

INFONICS (VISUAL EDUCOM)

13-0003	8250
13-0004	8251
13-0008	3252
13-0009	3253
13-0011	8210+66
13-0013	5410
13-0014	5205
13-0015	5201
13-0016	5411
13-0018	8210
13-0019	9156
13-0020	8250
13-0021	8654
13-0022	5202
13-0023	5656
13-0024	5654
13-0025	CH3-83
13-0026	5413
13-0028	5885
13-0029	5890
13-0032	5202
13-0033	5413
13-0034	5201
13-0035	5411
13-0038	5206
13-0039	5413
13-0040	5412
10008-15	5220
813100-001	6100

INSTATAPE (See AMPRO)

ITC (INTERNATIONAL TAPE)

F.T. Play	9111
504-0001	7605
504-0002	2001
504-0003	2003
504-0004	5701
504-0005	5703
504-0006	2001
504-0011	6101
504-0012	9213
504-0013	9226
504-0014	9125
504-0018	9105

INTERNATIONAL VIDEO

76100090	6303
76100100	7422
76100111	7721

LOCKHEED

10077Y500	7609
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MAGNASYNC (See MOVIOLA)

MAGNECORD (See TELEX)

MCI

PR-81EF9	9126
PR-81F11K	9117
PR-81F11R	9104
PR-82EH5	9222
PR-82H11K	9216
PR-82H11R	9204
STE-4B12	9473
STE-8BN12	9891
STE-16BN12	9987
STE-24U28	9983
STP-4B23	9468
STP-8B23	9886
STP-24U29	9984
STR-4BN18	9469
STR-8BN18	9885

METROTECH (SCULLY)

P-A2H48R	6104
P-A2Q48K	6007
P-82Q7F	8601
PR-81F7K	9119
PR-81F8R	9103
PR-82H7K	9213
SMEF-4-N9	4401
WP-82H7K	8209
WP-82Q7F	8601
WP-82Q7K	8608

MICRO MAGNETICS

1410-001	7420
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3M (See WOLLENSAK)

MOVIOLA (MAGNASYNC)

36151	7410
36151-1	7411
36155	7411
76241	4955
3077316	7414
2-108910	9126
2-108911	9109
2-108912	9119
028-0270	9111
045-0009	4956

PENTAGON

68-00001	9210
68-00002	9203
68-00003	5606
68-00004	5604
68-00005	5202
68-00006	5201
68-00007	5410
68-00008	5411
68-00009	5201
68-00012	9203
68-00013	5604
68-00014	5411
68-00015	5411
68-00016	9468
68-00017	9103
68-00020	9106
68-00021	5413
68-00022	5841
68-00023	5840

RCA

626-143	5752
98908	3101+20
101494	RPE-24
103277	2000+66
105362	3601+19
106208	1009+103
106362	3601+19
108948	1401+18
110293	1009+38
111677	1408+18
111697	1401+18
116380	1009+38
116381	1408+19
117059	3600+19
117060	3101
123721	1007
123722	1007
123723	1408+19
124121	5800
127444	5800+66
127674	5130
165871	5800
167240	5230
167257	5800
222435	8205
222436	8206
222437	8306
222438	NONE
222439	9108
222440	9107
222441	8110
223320	3251
223870	3000
223925	2200
225132	2200+18
226517	3252
229552	4910
231289	5752
231290	2057
231773	3252
232937	1401+18
234449	8205
234450	9108
234451	8110
234452	8307
234453	9108
234454	8206
240080	8104
240081	8304
240083	2002
241571	9107
249421	4951

RCA (Continued)

274941	1009+38
945870	2200+18
946592-1	1401+18
946634-1	1000+38
1585201-1	2201+18
1621396-1	2000+66
3310376-3	8205
3310376-6	9108
3310377-1	8110
3310377-3	8307
3310378-1	9107
3310378-3	8206
3310378-6	9107
3450599-1	2200+18
3453976-1	1401+18
3481303-1	4951
5007283	4910
8453976-1	1401+18
8494854-1	4951
8546668-1	4910
8728446-3	8205
8728446-6	9108
8728447-1	8110
8728447-3	8307
8728448-1	9107
8728448-3	8206
8728448-6	9107
8746920-3	2047
8762076-1	1202
8762076-2	8600
8971589	4955

RECORDEX

87701	5201
87702	5200
87703	5410
87704	5411
87705	8610+38
87706	8210+38

REVOX

1.017.360	9205+87
1.017.370	9202+87
1.017.380	8603+87
1.017.390	8700+87
1.116.021	9203+87
1.116.022	9203+87
1.116.026	9211+87
1.116.027	9211+87
1.116.041	8604+87
1.116.042	8604+87
1.116.046	8607+87
1.116.047	8607+87

SCHOBER ORGAN REVERB

13304	7415
13305	7406
13306	7416
13307	3601+18
13308	4401+18

SCULLY

180000	9211+91
180001	9209+91
180004	9110+91
180005	9470
180006	9476
180007	9469
180011	7721
180016	4404
180017	9998
180018	NONE
180019	8618+91
180020	9128+91
180021	9223+91
180022	8606+19
200517-05	9104+91
200525-04	8200+91
200579-01	9110+91
200579-02	9211+91
200579-03	8606+91
200579-04	5602+91
200579-05	9476
200602-01	9211+91
200602-02	9209+91
200602-03	9110+91
200603-01	9104+91
200603-02	9209+91
200603-03	8618+91
200603-04	5607+91
200603-05	9469
200703-03	8702+91
200703-04	NONE
200703-05	9470
200708-00	4404
200742-01	9128+91
200742-02	9223+91
022110101	9128+91
022110201	9223+91
022120301	9370
022120401	9470

Cross Reference

Recorder Manufacturer and/or Head Manufacturer's Part Number to Nortronics Replacement Head & Quik-Kit

SCULLY (Cont'd.) Head & QK

022130801	9890
022131201	9886
022210101	9104+91
022210201	9204+91
022220301	9361
022220401	9461
022230801	9881
022231201	9981
022310101	9120+91
022310104	8200+91
022310201	9202+91
022320301	9360
022330801	9880
022331201	9980
101010000-08	9887
101010000-12	9982
101010000-16	9998
501250000-01	9102+91
501250000-02	8200+91
501250000-03	8200+91
501250000-04	8600+91
501250000-05	5603+91
502230000-01	9128+91
502230000-02	9223+91
502230000-03	9223+91
502230000-04	8702+91
502230000-05	9370
502230000-06	9470
502240000-01	9104+91
502240000-02	9204+91
502240000-03	9204+91
502240000-04	8618+91
502240000-05	9361
502240000-06	9461
502250000-01	9102+91
502250000-02	9202+91
502250000-03	9202+91
502250000-04	8600+91
502250000-05	9360
502250000-06	9460
504230000-01	9890
504230000-02	9886
504230000-03	NONE
504230000-04	9470
504240000-01	9881
504240000-02	9981
504240000-03	NONE
504240000-04	9470
504250000-01	9880
504250000-02	9980
504250000-03	NONE
504250000-04	9460
508230000-01	9890
508230000-02	9880
508230000-03	9996
508240000-01	9881
508240000-02	9981
508240000-03	9992
508250000-01	9880
508250000-02	9980
508250000-03	9990

SPARTA

895-010	2003
895-020	2001
895-022	3051
895-024	2001
895-030	6127
895-032	6127
895-040	5703
895-042	5701
895-060	3052
895-062	3251

SPOTMASTER (BROADCAST ELECTRONICS)

250-0001	D1/D2	3250
250-0002	D1A	3251
250-0003	D01A	3051
250-0004	D01AX	3001
250-0005	DOM8	3050
251-0001	DM1A	3251
251-0001	DM2TA	3251
252-0001	DM18	2051
252-0002	DM18X	2001
252-0003	DM2R8	2053
252-0004	DM2R8X	2003
252-0005	DM1C	7251
252-0006	DM2RC	7252
253-0001	DM3R8	5753
253-0002	D1SA	5751
253-0003	DM3RC	7253
254-0001	PK-1	3251
259-0001	D2M8	1250
259-0002	DL1A	6177
259-0003	DL2B	6153
259-0004	DL2A	2051
259-0004	DL18	2051
259-0005	DL2C	6151
500C	Rec. DM2R8	2053
500C	Pl. DM18	2051
505	Rec. DM18	2051
505	Pl.	2050
10/70	R. DM2R8	2053
10/70	P. DM18	2051

STANCIL-HOFFMAN

24-001	H805-004
24-004	2603
24-005	5603
24-007	2001
24-009	5601
24-010	9105
24-011	9111
24-013	2602
24-014	2003
24-015	2021
24-020	9213
24-021	4401+18
24-044	8210
24-053	5603
24-056	8104
24-057	6132

SUNDSTRAND (UNITED CONTROL)

317-1000-001	9111
317-1001-001	8101
317-1002-981	7602
317-1003-002	5832
317-1004	NONE
317-1005-001	5602
317-1006	NONE
317-1007-001	7417
317-1022-001	4400L
103032	7602
103033	9111
103034	8101
108417	5602

TAPECASTER

81HC7K-R6	7468
G1H2K-R	3250
P-A2H47K-R6	6152
P-82H7K-R6	2056
P-83Q7K-R6	5754
P-G1H7K-R	3251
Dummy - R	7655
Dummy - N	7605

TAPE-ATHON

0500	7405D
0501	7405U
0502	9125+66
0503	9103+66
0504	9119+66
0505	9222+66
0506	9203+66
0507	9213+66
0508	8701+66
0509	8604+66
0510	8608+66
0511	8403+66
0515	5603+66
0516	8401+66
0517	9222+66
0518	1201+66
0519	5832+66
0520	5800+66

TEAC

THE-202	8708+66
THP-204	8608+84
THR-202	8614+84
608	8704+66
1497	8708+84
2315	8600+84
66101	9128+66
66103	8106+66
66201	9223+66
66203	9226+66
66301	8702+66
66302	8701+66
66303	8701+66
66402	9104+84
66404	9112+84
66502	9204+84
66504	9204+84
66601	8604+84
66602	8614+84
66604	8604+84
66702	9119+84
66805	9213+84
66901	8608+84
66903	8606+84
66904	8608+84
66905	8606+84
66951	8607+84
562171	9112+84
562172	9104+84
5622318	8603+84
562241	9204+84
562242	9204+84
562251	8604+84
563171	9119+84
563231	8600+84
563241	9213+84
563251	8608+84
651231	8704+84

TEAC (Continued)

672099	8602+84
673298	8600+84
673737	8600+84
5611013	9128+66
5611313	8106+66
5612013	9223+66
5612023	8702+66
5612223	9226+66
5612313	8701+66
5622023	8614+84
50661010	9128+66
50662010	9223+66
50662030	9222+66
50662070	9222+66
50663030	8640+66
50663410	6006+84
50663430	6006+84
50664020	9103+84
50664110	NONE
50664210	5604+84
50664220	5604+84
50664250	5604+84
50664350	5603+84
50664410	5604+84
50664420	5703+84
50664430	8604+84
50664440	8608+84
50664450	NONE
50664480	8604+84
50664490	8608+84
50664820	5603+84
50665020	9203+84
50665041	9205+84
50665700	9103+84
50665800	9111+84
50666020	8604+84
50666041	8604+84
50666070	8604+84
50666200	9203+84
50666210	9203+84
50666310	9207+84
50666320	9207+84
50666700	9203+84
50666800	9207+84
50667020	9119+84
50667200	8604+84
50667250	8604+84
50667310	8607+84
50667320	8607+84
50667350	9216+84
50667410	6006+84
50667420	6006+84
50667700	8604+84
50667800	8607+84
50668050	9213+84
50668070	9207+84
50669010	8608+84
50669030	8606+84
50669040	8607+84
50669050	8606+84
50669070	8608+84
60570030	NONE
60570040	9222+84
60576057	8640+66

TELEX (MAGNECORD) (VIKING)

H85-F2	9111
H85-F5	4400L
H85-Q2	1200
H85-Q5	1400L
H85-RQ2A	1205
H85-S2	2000
H85-S5	2200L
H85-1	3000
H85-5	3600L
75-1	3101+21
75-5	1400+19
85-F2A	9111
85-F5A	4400L
85-S58	2200L
55010	3000
55011	3600L
55012	2000
55013	2200L
55014	1200
55015	1400L
55016	1400L
55017	3001
55018	9111
55019	4400L
55020	3200
55021	2050
55022	3250
55023	3650
55024	NONE
55025	NONE
55026	2250
55027	2000+66
55028	1200+66
55029	1400+19
55030	NONE
55031	NONE
55032	2200+19
55033	NONE
55034	2002
55035	1203

TELEX (Continued)

55036	2005
55037	NONE
55038	3250
55039	1250
55040	1450
55041	2050
55042	NONE
55043	2200+19
55044	3001+21
55045	3000+21
55046	1400+19
55047	3600+19
55048	3600+19
55049	3600+19
55050	1401+19
55051	1201
55052	3650
55053	1202
55054	1401L
55055	2201+19
55056	2201+19
55057	3051
55058	3000
55059	NONE
55060	2001+66
55061	NONE
55062	3000
55063	3000
55064	3000+21
55065	3001+21
55066	3050
55067	3050
55068	3050
55069	3001
55070	3001
55071	3001+21
55072	3001+21
55073	3001+21
55074	3001+21
55075	3051
55076	3001+21
55077	3001
55078	CH3R
55079	9111
55080	9161
55081	9161
55082	3200
55083	3250
55084	3200+21
55085	3200+21
55086	3205
55087	3251
55088	3251
55089	3201
55090	3251
55091	3202+21
55092	3202+21
55093	3252
55094	3202+21
55095	3202+21
55096	3202
55097	1000
55098	1002
55099	1002+66
55100	1002+66
55101	1002+66
55102	1250
55103	2000
55104	2005
55105	2050
55106	2005
55107	2051
55108	2002
55109	2052
55110	2003
55111	1200
55112	1200+66
55113	1201
55114	1201+66
55115	1202
55116	1203
55117	1203+66
55118	1202+66
55119	1202+66
55120	1205
55121	1200
55122	1250
55123	1202+66
55124	1202+66
55125	1201
55126	1202+66
55127	1250
55128	1250
55129	1200
55130	1250
55131	1250
55132	1202
55133	1202
55134	1202
55135	1201+66
55136	1201
55137	7406+21
55138	4450
55139	3101
55140	4450
55141	4400L
55142	1200
55143	3600+19
55144	3600+19

Cross Reference

Recorder Manufacturer and/or Head Manufacturer's Part Number to Nortronics Replacement Head & Quik-Kit

TELEX (Cont'd.) Head & QK

55145	NONE
55146	2000
55147	2005
55148	1200
55149	1205
55150	9111
55151	4400+19
55152	9111+66
55153	1450
55154	1000+66
55155	1000+66
55156	1400+19
55157	1400+19
55158	1000
55159	1400L
55160	1200
55161	1251
55162	3255
55163	1255
55164	1252
55165	2201L
55166	2051
55167	5651
55168	5653
55169	2002
55170	7406+21
55171	3601+19
55172	2200+19
55173	3202
55174	3001
55175	3050
55176	3001+21
55177	3001+21
55178	3251
55179	3205+21
55180	3201
55181	3201
55182	1201+66
55183	1002
55184	1002+66
55185	1200
55186	1201+66
55187	1251
55188	1201+66
55189	1203+66
55190	4450
55191	3600+19
55192	3600L
55193	3601+19
55194	1401L
55195	2200L
55196	2200L
55197	2200+19
55198	2250
55199	2201L
55200	2201L
55201	2201L
55202	1400L
55203	1450
55204	1450
55205	1401L
55206	1400+19
55207	1401+19
55208	1401+19
55209	1401L
55210	2050
55211	2051
55212	2051
55213	1250
55214	1200
55215	1202+66
55216	1207
55217	3002
55218	2002
55219	3600+19
55220	3600+19
55221	3600+19
55222	2200+19
55223	2200+19
55224	2200+19
55225	2201+19
55226	1400+19
55227	1400+19
55228	1401+19
55229	1400+19
55230	3600+19
55231	1250
55232	1252
55233	1203
55234	1203
55235	5603
55236	5602
55237	5653
55238	1203
55239	1201+19
55240	3601L
55241	2201+19
55242	2251
55243	2201L
55244	1451
55245	3250
55246	3203
55247	3251
55248	9111+66
55249	9110
55250	3051
55251	2001+66
55252	2052

TELEX (Continued)

55253	1400+19
55254	1200
55255	2000
55256	1200
55257	1205
55258	2201+19
55259	3002
55260	3001
55261	1205
55262	1401+19
55263	3001
55264	3001
55265	3001
55266	1200+66
55267	1400L
55268	1201+66
55269	1200+66
55270	1200+66
55271	2000
55272	2005
55273	2200L
55274	3202
55275	1400L
55276	4450
55277	3051
55278	3202+21
55279	2200L
55280	1401L
55281	NONE
55282	1201
55283	1202
55284	3200
55285	1205
55286	3205+21
55287	1202+66
55288	1221
55289	1203
55290	2005+66
55291	5601
55292	2200L
55293	3600L
55294	1400L
55295	4400L
55296	2003
55297	3200
55298	1451
55299	1400L
55300	1400+19
55301	7406+21
55302	3600+19
55303	1200+66
55304	2000+66
55305	2200+66
55306	2052
55307	3051
55308	2002
55309	3002
55310	2001
55311	1257
55312	1002
55313	2051
55314	1200+66
55315	1000+66
55316	1000+66
55317	3202+21
55318	3202+21
55319	3601+19
55320	7406+21
55321	2002
55322	6103
55323	2603
55324	1201+66
55325	1202
55326	3000
55327	1201+66
55328	1201+66
55329	1257
55330	3200
55331	3202
55332	3202
55333	3202
55334	2000
55335	3201
55336	2005
55337	2251
55338	3002
55339	3002
55340	2052
55341	3000
55342	3000
55343	3001+21
55344	1202+66
55345	3051
55346	3000+21
55347	3002+21
55348	7406+21
55349	3202+21
55350	3202+21
55351	2052
55352	3201
55353	1201
55354	3200
55355	1205
55356	2005
55357	2003
55358	3205
55359	3203
55360	1200

TELEX (Continued)

55361	1203
55362	2002
55363	4401L
55364	3201
55365	3601L
55366	3203
55367	9105
55368	2002
55369	2010
55370	1210
55371	P-G1H8R
55372	1202
55373	9110
55374	2051
55375	3051
55376	2053
55377	2001+66
55378	2021+66
55379	5602
55380	5751
55381	5752
55382	2003
55383	1201+66
55384	1201+66
55385	1401+19
55386	5653
55387	NONE
55388	9103
55389	NONE
55390	1252
55391	2052
55392	2251
55393	3002
55394	6000
55395	PA2H17R-R
55396	6180
55397	7468
55398	PA2H17K-R
55399	5602+66
55400	1257
55401	1251
55402	1221
55403	3202
55404	3252
55405	1251
55406	PA1Q17K-R
55407	5604
55408	2050
55409	3651
55410	A2Q22K-R
55411	1201
55412	3002+21
55413	3002+21
55414	1007
55415	3052
55416	3052
55417	9111
55418	2053
55419	3251
55420	2005
55421	2001
55422	7406
55423	1201+66
55424	A2Q44K-R
55425	PA1HC17K-R
55426	9103
55427	2010
55428	1210
55429	5800
55430	6153
55431	3001+21
55432	3001+21
55433	3001+21
55434	3001+21
55435	3001+21
55436	1001+66
55437	1001+66
55438	1202+66
55439	1202+66
55440	3001
55441	3202
55442	3601+19
55443	3253
55444	9160
55445	4451
55446	3600+19
55447	3253
55448	1401+19
55449	1202
55450	7406+21
55451	3002+21
55452	1202+66
55453	3201+21
55454	3205+21
55455	2001+66
55456	1205+66
55457	3202+21
55458	1202+66
55459	3203+21
55460	2002+66
55461	1203+66
55462	1205
55463	2003
55464	1203
55465	3203
55466	1202
55467	3205
55468	1257

TELEX (Continued)

55469	2052
55470	1250
55471	1250
55472	2051
55473	1207
55474	NONE
55475	1207
55476	5652
55477	1202
55478	5701
55479	1251
55480	2051
55481	2056
55482	6151
55483	3001
55484	1255
55485	6153
55486	2060
55487	7406+21
55488	1253
55489	2002
55490	A2H17K-R
55491	3001+21
55492	PA2Q47K-R
55493	2002+66
55494	PA2Q44K-R
55495	2000
55496	1251
55497	1251
55498	NONE
55499	NONE
55500	3001+21
55501	3001+21
55502	1221+66
55503	3253
55504	6180
55505	3251
55506	1257
55507	3051
55508	5751
55509	1001+66
55510	1003+66
55511	9111+66
55512	3051
55513	6152
55514	3201+21
55515	1251
55516	1202+66
55517	1251
55518	2002
55519	A1HC44R-R
55520	5653
55521	5652
55522	7468
55523	1000
55524	1001
55525	2000
55526	1252
55527	7406+21
55528	3050
55529	7406
55530	3002+21
55531	6126+66
55532	6153
55533	6151
55534	6002
55535	PA2Q42K-R
55536	PA2Q42K-R
55537	1253
55538	1257
55539	1222
55540	3201
55541	2050
55542	2007
55543	1201
55544	1202+66
55545	2002
55546	3255
55547	2001
55548	2052
55549	3001
55550	7406+21
55551	5800
55552	5850
55553	1002+66
55554	8210
55555	3051
55556	1202+66
55557	1202+66
55558	8400
55559	7406+21
55560	5835
55561	5651
55562	2055
55563	3001+21
55564	3001+21
55565	1202
55566	9105
55567	2007
55568	3001
55569	5757
55570	1260
55571	2602
55572	3002
55573	3202+66
55574	5813
55575	5603
55576	2050

Cross Reference

Recorder Manufacturer and/or Head Manufacturer's Part Number to Nortronics Replacement Head & Quik-Kit

TELEX (Cont'd.) Head & QK	
55577	PA2H17K-R
55578	2203+19
55579	7406
55580	1251
55581	2055
55582	2001
55583	9211
55584	5604
55585	5602
55586	5834
55587	1252
55588	9228
55589	9204
55590	9202
55591	NONE
55592	NONE
55593	NONE
55594	1252
55595	6055
55596	3052
55597	1202
55598	3001
55599	2021
55600	1250
55601	2000+66
55602	1251
55603	1200+66
55604	7406
55605	9161
55606	2055
55607	2060
55608	3251
55609	1257
55610	9160
55611	NONE
55612	3251
55613	2007
55614	3001+21
55615	1202
55616	1210
55617	5652
55618	2053
55619	2057
55620	1260
55621	1253
55622	5201
55623	2053
55624	1402
55625	1402+19
55626	5654
55627	NONE
55628	5685
55629	5683
55630	5652
55631	3250
55632	2602
55633	5200
55634	1201
55635	5850
55636	3252
55637	5411
55638	5411
55639	1257
55640	5130
55641	5200
55642	NONE
55643	NONE
55644	NONE
55645	NONE
55646	5602
55647	NONE
55648	5206
55649	5410
55650	PR-82H14N
55651	W2J4F-A
55652	5213
55653	5213
55654	5213
55655	3050
55656	9228
55657	9203
55658	9213
55659	2203
55660	1251
55661	NONE
55662	5220
55663	8602
55664	8607
55665	8702
55666	8203
55667	8202
55668	8302
55669	9112
55670	8102
55671	8408
55672	5205
55673	5211
55674	5833
55675	5802
55676	NONE
55677	6201
55678	5211
55679	5232
55680	7421
55681	5210

TELEX (Continued)	
55682	5410
55683	5201
55684	NONE
55685	NONE
55686	NONE
55687	8210
55688	NONE
55689	NONE
55690	NONE
55691	2004
55692	1204
55693	8202
55694	NONE
55695	NONE
55696	NONE
55697	NONE
55698	NONE
55699	NONE
55700	NONE
55701	NONE
55702	NONE
55703	2001
55704	5411
55705	5410
55706	NONE
55707	NONE
55708	NONE
55709	NONE
55710	NONE
55711	NONE
55712	NONE
55713	NONE
55714	NONE
55715	8607
55716	8208
55717	8406
55718	6201
55719	NONE
55720	NONE
55721	NONE
55722	NONE
55723	NONE
55724	NONE
55725	NONE
55726	NONE
55727	NONE
55728	5232
55729	5802
55730	5412

TELEX (VIKING)

A368 106-1	9103+35
A368 107-1	9102+35
A368 117-1	9112
A36C 119-1	8102
A91D8784-1	8602+74
A91D8784-2	8607
A91D8784-3	8203
A91D8784-4	9207
A91D8784-17	8702
A91D8784-20	8302
A91D8784-23	8102
A91D8784-26	9214
A91D8784-27	1204
AN291	5601
AN322	6103
E88157	1400+19
EFN 141	4400L
EFN295	4400L
EFN363	4401L
EFR 140	4450
EFR276	4450
EH8143	3600+19
EH8144	3600+19
EH8302	3600+19
EHN 117	3600L
EHN293	3600L
EHN366	3601L
EHR23	3650
EMB 156	1400+19
EMB 157	1400+19
EMB253	1400+19
EMN 159	1400L
EMN299	1400L
EMR253	1450
EQ829	1400+19
EQ846	1400+19
EQ8262	1401+19
EQ8300	1400+19
EQN 15	1400L
EQN267	1400L
EQN275	1400L
EQN280	1401L
EQN294	1400L
EQR 40	1450
ES832	2200+19
ES8258	2201+19
ES8305	2200+19
ESN 13	2200L
ESN265	2201L
ESN273	2200L
ESN279	2200L
ESN292	2200L
ESR26	2250

TELEX (VIKING) (Cont'd.)	
ESR298	2251
ESR337	2251
F8152	9111+66
FN18	9111
FN82	2600
FN150	9111
FN367	9105
FR80	9161
H8139	3101+21
H8286	2603+66
H8301	2000+21
H8317	2602+66
H8318	2602+66
H8320	7401
H8332	2602
H8333	2602
H8342	3101+21
H8343	3202+21
H8346	3100+21
H8347	3002+21
H8348	3101+21
H8349	3202+21
H8350	3202+21
HN63	3000
HN69	3001
HN82	2600
HN89	2600
HN259	3002
HN263	3001
HN264	3001
HN274	2602
HN278	2601
HN284	2600
HN297	2600
HN309	3002
HN316	3000
HN323	2603
HN326	3000
HN330	3200
HN331	3202
HN335	2601
HN338	3002
HN339	3001
HN341	3000
HN352	3201
HN354	3200
HN358	3205
HN359	2603
HN364	3201
HN366	3203
HR22	3250
HR90	3051
HR250	3051
HR277	3051
HR307	3051
HR345	3051
M122	1250
M8154	1000+66
M8155	1000+66
M8344	1202+66
MN51	1201
MN158	1200
MN160	1000
MR122	1251
QB131	1001+66
QB142	1000+66
QB266	1200+66
QB268	1201+66
QB269	1200+66
QB270	1200+66
QB281	1201+66
QB282	1201+66
QB283	1202+66
QB287	1202+66
QB303	1200+66
QB314	1200+66
QB315	1200+66
QB324	1201+66
QB327	1201+66
QB328	1201+66
QN129	1200
QN132	1205
QN148	1200
QN149	1205
QN256	1200
QN257	1205
QN261	1205
QN282	1201
QN283	1201
QN288	1221
QN289	1203
QN312	1202
QN325	1202
QN355	1205
QN360	1200
QN361	1203
QN370	1210
QN372	1202
QR127	1250
QR311	1251
QR329	1251
S827	2000+66
S8251	2001+66
S8290	2005+66
S8304	2000+66

TELEX (VIKING) (Cont'd.)	
SN103	2000
SN106	2005
SN146	2000
SN147	2005
SN255	2000
SN271	2000
SN272	2005
SN296	2003
SN308	2002
SN310	2001
SN321	2002
SN334	2000
SN336	2001
SN356	2005
SN357	2003
SN362	2002
SN368	2002
SN369	2010
SR21	2050
SR306	2052
SR313	2051
SR340	2052
SR351	2052
4A91A941	8403+75
4A91A942	8403+75
36C111	8602
36C112	8607
36C113	8702
36C114	8203
36C115	9207
36C116	8302
36C117	9112
36C118	9111
36C119	8102
36C141	9214
36C142	1204
36C143	8202
36C153	8202
75-G58	1401+19
75Q2	1200+66
75-S2	2000+66
51628-000	2001
51628-001	2001
51628-002	5603
51982-001	5201
51982-002	7421
51982-003	5220
51982-004	5205
85545-01	6800
90076-000	5802
7298991	5802

VIKING (See TELEX)

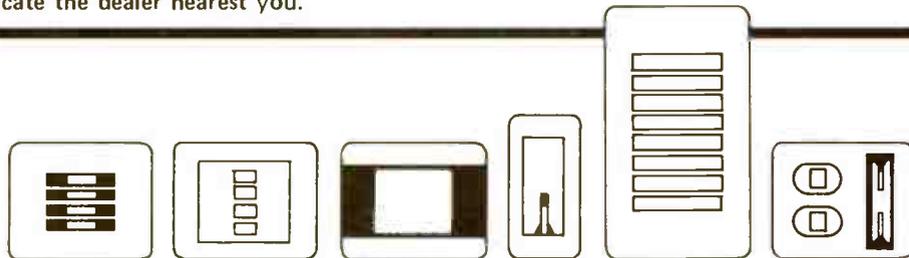
WOLLENSAK (3M)

78-8473-8962	7610
26161-700	5221
27161-001	RPE-20
27161-010	RPE-20
27161-060	7601
27161-070	7722
27161-080	7722
27161-090	NONE
27161-100	NONE
27161-110	RPE-20
27161-130	7722
27161-140	7601
27161-180	RPE-20
27161-190	6125
27161-200	6026
27161-210	6002
27161-220	RPE-20
27161-221	RPE-20
27161-250	6005+66
27161-270	6128+66
27161-280	RPE-21
27161-281	RPE-21
27161-320	RPE-22
27161-380	6008
27161-410	5232
27161-450	5133
27161-460	RPE-22
27161-470	NONE
27161-510	6008
27161-520	1202
27161-540	5207
27161-570	5205
27161-580	5201
27161-590	W2ER6
27161-610	W2ER5G
27161-620	W1R25G
27161-690	5220

Nortronics Magnetic Head Specifications

These specifications cover the complete line of Nortronics replacement heads listed by individual head part numbers. The Nortronics' line is industry's most complete line of replacement heads for .150" cassette; 1/4-inch and 8-track cartridge recorders and players of domestic and foreign manufacture. Applications of listed heads to specific machine types can be obtained from tabular material in the Nortronics Replacement Guide, available from nationwide Nortronics' Dealers. Write to Nortronics for a FREE complete list that will indicate the dealer nearest you.

SECTION **F**



Head Description Hyperbolic Metal Face Laminated Cores	Nortronics Model Number (No Mount) †	Case Size	O. E. M. Model Number	Head Function	Application (see notes)	1 kHz Inductance		Maximum Bias Frequency	DC Resistance	Gap Spacer	1 kHz Crosstalk Rejection	Average 7.5 IPS Constant Current R/P characteristics, using 3M190 tape, peak biased at 1 kHz and recorded 12 db below tape saturation					NRZ Digital Read/Write Data at 7.5 IPS, using 3M777 tape, 400 BPI						
						MHY	OHMS					kHz	OHMS	MILS	DB	60 kHz Peak Bias	Bias Voltage RMS 60 kHz	Record Current	1 kHz Output RMS	10 kHz/1 kHz Ratio	Write Current	Read Output 200 BPI	Mis. Read Peck. Dens.
						MA	VOLT					UA	MV	DB	MA	MA	MV	BPI					
Standard 4-Track Stereo .043 In. Track Width .136 In. C. to C. Track Spacing	1000†	B	B2Q2K	Record/Play	1	800	5000	80	700	0.1	55	0.30	45	25	2.4	-3	1.1	50	1600				
	1001†	B	B2Q7K	Record/Play	3	400	2500	100	390	0.1	55	0.42	35	35	1.6	-3	1.6	32	1600				
	1002†	B	B2Q4K	Record/Play	6	100	650	140	90	0.1	55	1.1	20	70	0.8	-4	3.1	16	1600				
	1003	B	B2Q4R	Record Only	8	50	400	250	90	0.5	55	0.65	7.5	60	-	-	2.7	16	400				
	1005	B	B2Q7R	Record Only	4	200	1300	120	390	0.5	55	0.26	20	38	-	-	1.7	32	400				
	1007	B	B2Q6K	Record/Play	5	200	1300	120	200	0.1	55	0.40	25	50	1.3	+1	2.2	26	1600				
	1008	B	B2Q6N2	Record/Play	6	110	700	100	210	0.2	55	0.5	12	50	1.2	-3	2.2	24	800				
	1009	B	B2Q2N2	Record/Play	3	500	3300	100	700	0.2	55	0.15	25	23	3.0	-3	1.1	60	800				
	Premium 4-Track Stereo .043 In. Track Width .136 In. C. to C. Track Spacing	1200†	B	P-B2Q2K	Record/Play	1	800	5000	80	700	0.1	55	0.16	45	25	2.6	+1	1.1	52	1600			
1201†		B	P-B2Q7K	Record/Play	3	400	2500	100	390	0.1	55	0.25	35	35	1.8	+1	1.6	36	1600				
1202†		B	P-B2Q4K	Record/Play	6	100	650	140	90	0.1	55	0.70	18	70	0.9	0	3.1	18	1600				
1203†		B	P-B2Q4R	Record Only	8	50	400	250	90	0.5	55	0.65	7.5	60	-	-	2.7	18	400				
1204		B	P-B2Q11R	Record	7	1.5	10	600	5	0.5	50	4.2	1.5	350	-	-	15	3	400				
1205†		B	P-B2Q7R	Record Only	4	200	1300	120	390	0.5	55	0.26	20	38	-	-	1.7	36	400				
1207†		B	P-B2Q6K	Record/Play	5	200	1300	120	200	0.1	55	0.40	25	50	1.3	+1	2.2	26	1600				
1210		B	P-B2Q8R	Record Only	7	10	70	500	32	0.5	55	1.3	3.0	140	-	-	6.2	9	400				
1221†		B	P-B2Q7F	Play Only	2	500	3300	100	390	0.05	55	-	-	-	1.8	+2	-	-	-				
1222		B	P-B2Q8F	Record/Play	-	20	150	250	32	0.5	55	1.5	7	140	4	0	6.2	8	1600				
Premium 2-Track Stereo .080 In. Track Width .160 In. C. to C. Track Spacing	2000†	B	P-B2H2K	Record/Play	1	800	5000	60	720	0.1	55	0.25	55	30	3.6	-1	1.3	72	1600				
	2001†	B	P-B2H7K	Record/Play	3	400	2500	100	410	0.1	55	0.33	40	40	2.4	+1	1.8	48	1600				
	2002†	B	P-B2H4K	Record/Play	6	100	650	150	130	0.1	55	0.80	20	80	1.2	0	3.6	24	1600				
	2003†	B	P-B2H4R	Record Only	8	50	320	200	130	0.5	55	0.70	9	75	-	-	3.4	24	400				
	2004	B	P-B2H11R	Record	7	1.5	10	600	4	0.5	50	5.2	2.0	470	-	-	20	6	400				
	2005†	B	P-B2H7R	Record Only	4	200	1300	150	370	0.5	55	0.30	22	40	-	-	1.8	48	400				
	2007†	B	P-B2H6K	Record/Play	5	200	1300	100	245	0.1	55	0.40	30	60	1.8	+1	2.7	36	1600				
	2010	B	P-B2H8R	Record Only	7	10	72	500	27	0.5	55	1.7	3.3	200	-	-	9.0	12	400				
	2021	B	P-B2H7F	Play Only	2	450	3300	80	410	0.05	55	-	-	-	2.2	+2	-	-	-				
	2047†	B	P-B2H47K	R/P Dual Impedance	6	100	650	150	130	0.1	55	0.80	20	80	1.2	0	-	-	-	-			
2056	B	P-B2H7K-R6	Record/Play	3	400	2500	100	410	0.1	55	0.33	40	40	2.4	+1	-	-	-	-				
Premium 2-Track Mono .080 In. Track Width Track .040 In. Off Center	2600	B	P-B1HY2K	Record/Play	1	800	5000	60	400	0.1	-	0.25	55	30	3.6	+1	1.3	72	1600				
	2601	B	P-B1HY7K	Record/Play	3	400	2500	100	165	0.1	-	0.33	40	40	2.4	+1	1.8	48	1600				
	2602	B	P-B1HY4K	Record/Play	6	100	650	150	70	0.1	-	0.80	20	80	1.2	0	3.6	24	1600				
	2603	B	P-B1HY4R	Record Only	8	50	320	200	70	0.5	-	0.70	9	75	-	-	3.4	24	400				
	2608	B	P-B1HY8K	Record/Play	6	20	150	500	28	0.1	-	1.9	10	145	.64	+1	-	-	-				
Standard 2 Track Mono .080 In. Track Width	3000†	G	G1H2K	Record/Play	1	800	5000	60	400	0.1	-	0.4	65	30	3.4	-3	1.3	70	1600				
	3001†	G	G1H7K	Record/Play	3	400	2500	100	165	0.1	-	0.6	45	40	2.2	-3	1.8	44	1600				
	3002†	G	G1H4K	Record/Play	6	100	650	150	70	0.1	-	1.1	20	80	1.1	-4	2.7	22	1600				
2-Track Mono .090 In. Center Track Cyl. Metal Face Solid Cores	3100	G	GMH1L	Record/Play	1	1000	6300	60	625	0.16	-	0.65	60	22	5.0	-9	1.0	100	800				
	3101	G	GMH3L	Record/Play	3	400	2500	80	350	0.16	-	0.8	25	30	3.0	-9	1.3	60	800				
Premium 2-Track Mono .080 In. Track Width	3200†	G	P-G1H2K	Record/Play	1	800	5000	60	400	0.1	-	0.25	55	30	3.6	+1	1.3	72	1600				
	3201†	G	P-G1H7K	Record/Play	3	400	2500	100	165	0.1	-	0.33	40	40	2.4	+1	1.8	48	1600				
	3202†	G	P-G1H4K	Record/Play	6	100	650	150	70	0.1	-	0.80	20	80	1.2	0	3.6	24	1600				
	3203†	G	P-G1H4R	Record Only	8	50	320	200	70	0.5	-	0.70	9	75	-	-	3.4	24	400				
	3205†	G	P-G1H7R	Record Only	4	200	1300	150	370	0.5	-	0.30	22	40	-	-	1.8	48	400				
Cassette 2-Track Mono .056 In. Track Width	4950	M	L24RBL5	Record/Play	9	40	250	150	125	0.16	-	0.65	8	50	0.4	0	2.2	8	800				
	4951	M	AL42R1L3	Playback	10	425	3000	600	-	0.16	-	-	-	-	0.9**	.11**	-	-	-				
	4952	M	L42RBL	Record/Play	11	80	500	200	128	0.16	-	0.7	16	60	1.0	0	3.1	18	800				
	4910	M	M70R4L3	Record/Play	-	20	125	150	80	0.16	-	2.0	4	100	0.5	-	-	-	-				
	4954	M	M70R4L4	Record/Play	-	20	150	150	80	0.16	-	2.0	7	10	.75	-	-	-	-				
	4955	M	M70R5L6	Record/Play	15	200	1500	150	700	0.16	-	0.6	25	33	2.2	-3	-	-	-				
	4956	M	L42R5K55	Record/Play	15	220	1600	150	260	0.1	-	0.4	25	30	1.0	0	-	-	-				
	5130	W	W1R6F-A	Record/Play	-	200	1300	-	200	.05	-	0.3*	20	35	0.5	.12	1	9	1600				
	5131	W	W1R8N-A	Record Only	-	10	75	-	40	0.2	-	1.7*	4	120	-	-	7	3.6	800				
	5132	W	W1R4F-A	Record/Play	5	100	700	-	120	.05	-	6*	16	55	.3	.12	1.4	6	1600				
5133	W	W1R5F-A	Record/Play	5	50	300	-	65	.05	-	1.0*	12	70	0.2	.12	4	4	1600					
5134	W	W1R8F-A	Record/Play	5	20	135	-	42	.05	-	1.4*	8	100	.15	.12	3	3	1600					
Cassette 2-Track Dual Channel .056 In. Track Width .088 In. C. to C. Track Spacing	5200	W	W2R6F-A	Record/Play	-	200	1300	-	200	0.05	50	0.3*	20	35	0.5	.12	1	9	1600				
	5201	W	W2R8N-A	Record Only	7	10	75	-	40	0.2	50	1.7*	4	120	-	-	7	3.6	800				
	5202	W	W2R8K-A	Record/Play	-	20	140	-	40	0.1	50	1.5*	6	100	.12	.18	7	3.6	1600				
	5203	W	W2R6N-A	Record Only	-	100	700	-	175	0.2	50	0.3*	10	30	-	-	2	13	800				
	5204	W	W2R6R-A	Record Only	-	100	700	-	175	0.2	50	0.4*	16	40	-	-	2	13	400				
	5205	W	W2R8F-A	Record/Play	-	20	140	-	40	0.05	50	1.8*	7	110	.14	.12	6	2.5	1600				
	5206	W	W2R4F-A	Record/Play	5	100	700	-	120	0.05	50	6*	16	55	.3	.12	1.4	6	1600				
	5207	W	W2R5F-A	Record/Play	5	50	300	-	65	0.05	50	1.0*	12	70	0.2	.12	4	4	1600				
Premium Cassette Dual Channel .056 In. Track Width .088 In. C. to C. Track Spacing	5220	W	P-W2P11N-A	Record Only	7	2.0	20	1000	9	0.2	50	2.5*	1.6	200	-	-	14	4	800				
	5221	W	P-W2P11F-A	Record/Play	6	2.0	20	-	14	.05	50	-	-	-	.04*	.10*	5	3	1600				
	5222	W	P-W2P8F-A	Playback	-	20	135	-	40	0.5	50	-	-	-	.15*	.12*	-	-	-				

† Add 50 to number for Rear Mount

* 1.875 IPS & 3M272 Tape

Magnetic Head Specifications

Record/Play, Playback Only, and Record Only Heads Continued	Nortronics Model Number (No Mount) †	Case Size	O. E. M. Model Number	Head Function	Application (see notes)	Average 7.5 IPS Constant Current R/P characteristics, using 3M190 tape, peak biased at 1 kHz and recorded 12 db below tape saturation										NRZ Digital Read-Write Data at 7.5 IPS, using 3M777 tape, 400 BPI			
						1 kHz Inductance	1 kHz Impedance	Maximum Bias Frequency	DC Resistance	Gap Spacer	1 kHz Crosstalk Rejection	60 kHz Peak Bias	Bias Voltage RMS 60 kHz	Record Current	1 kHz Output RMS	10 kHz/1 kHz Ratio	Write Current	Read Output 200 BPI	Max. Read Pkct. Dens.
						MHY	OHMS	kHz	OHMS	MILS	OB	MA	VOLT	UA	MV	OB	P MA	P MV	BPI
Cassette 4-Track Stereo .020 In. Track Width .035 In. C. to C. Track Spacing	5230A	W	H899023	Record/Play	—	120	800	—	170	—	35	.32*	—	20*	0.2*	-10*	—	—	—
Cassette 4-Track 4-Channel (Quadrasonic Sound)	5410	W	PW4J4F-A	Record/Play	14	—	600	—	235	0.05	60	0.6*	12	45	.14	-12	2	3	1600
	5411	W	PW4J8N-A	Record Only	14	10	100	1000	62	0.2	60	1.6*	3.5	130	—	—	7.5	2	800
	5412	W	PW4J11N-A	Record Only	14	2	15	1000	30	0.2	60	2.0*	1.2	200	—	—	—	—	—
	5413	W	PW4J8F-A	Record/Play	14	20	150	—	60	.05	60	0.8*	5	100	.08	-10	—	—	—
Premium 4-Track 4-Channel .037 In. Track Width .071 In. C. to C. Track Spacing (Quadrasonic Sound)	5601†	B	P-8QQ4R	Record Only	8	50	320	150	220	0.5	50	0.6	7	60	—	—	2.7	14	400
	5602†	B	P-8QQ4K	Record/Play	6	100	600	100	220	0.1	50	0.7	15	60	0.7	0	2.7	14	1600
	5603†	B	P-8QQ7K	Record/Play	3	400	2200	80	690	0.1	50	0.3	30	34	1.4	0	1.5	28	1600
	5604†	B	P-8QQ23R	Record Only	7	12	75	500	55	0.5	50	2.0	4	110	—	—	5.0	7	400
	5605†	B	P-8QQ5K	Record/Play	6	4	25	500	24	0.1	50	2.8	3	240	0.15	0	11	3	1600
	5606†	B	P-8QQ9K	Record/Play	6	10	70	500	40	0.1	50	1.8	5	150	0.2	0	6.7	4	1600
	5607	B	P-8QQ10R	Record/Play	7	4	25	500	32	0.5	50	3.0	3.5	200	—	—	9.0	4	400
	5608	B	P-8QQ7K-818	Play	4A	400	2200	80	690	0.1	50	—	—	—	—	1.4	0	—	—
Premium 3-Channel .043 In. Track Width .100 In. C. to C. Track Spacing	5701†	B	P-83Q7K	Record/Play	3	340	2000	100	800	0.1	55	0.25	35	35	1.8	+1	1.6	36	1600
	5702†	B	P-83Q4K	Record/Play	6	100	650	800	260	0.1	55	0.70	18	60	0.9	0	2.7	18	1600
	5703†	B	P-83Q4R	Record Only	8	50	400	250	260	0.5	55	0.65	7.5	60	—	—	2.7	18	400
	5707†	B	P-83Q6K	Record/Play	5	200	1300	120	450	0.1	55	0.40	20	50	1.3	+1	2.3	26	400
	5710	B	P-83Q8R	Record Only	7	10	70	500	100	0.5	55	1.7	3.3	200	—	—	8.0	9	400
	5754	B	P-83Q7K-R6	Record/Play	3	340	2000	100	800	0.1	55	0.25	35	35	1.8	+1	1.6	36	1600
8-Track Stereo .020 (5800-5801) In. Tr. W. .022 (5810-5813) In. Tr. W. .127 In. C. to C. Track Spacing	5800†	B	B2L7K	Record/Play	3	400	2500	100	700	0.1	55	0.44	27	20	0.9	-4	1.2	18	1600
	5801	—	H899019	Record/Play	3	400	2500	—	530	0.1	55	—	—	—	0.9	-4	—	—	
	5810	B	P-82L8R	Record Only	7	10	75	750	42	0.5	55	1.1	2.6	150	—	—	4.0	6	400
	5813	B	P-82L4R	Record Only	8	50	400	250	220	0.5	55	0.5	8	40	—	—	1.8	10	400
8-Track 4-Channel .021 In. Track Width .0635 In. C. to C. Track Spacing	5832	B	P-8QL6K	Record/Play	3	200	1400	150	500	0.1	35	0.35	25	35	0.7	0	1.6	14	1600
	5833†	B	P-8QL4K	Record/Play	6	100	700	150	250	0.1	35	0.55**	25**	50	0.5	0	2.3	10	1600
	5834	B	P-8QL4R	Record Only	8	50	300	300	250	0.5	35	0.6**	24**	50	—	—	2.3	10	400
	5835†	B	P-8QL8R	Record Only	7	10	65	500	60	0.5	35	2.5**	10**	150	—	—	4.0	6	400
	5836	B	P-8QL14R	Record Only	7	2.5	20	800	16	0.5	35	4**	4.5**	300	—	—	8.0	4	400
	5840	B	PC-8QL8K	Record/Play	14	20	145	500	45	0.1	55	1.35**	11**	95	22	+1	—	—	—
	5841	B	PC-8QL8R	Record Only	14	10	95	500	30	0.5	55	1.5**	7.5**	110	—	—	—	—	—
	5842	B	PC-8QL6K	Record/Play	14	200	1400	150	290	0.1	55	0.4**	38**	31	0.6	0	—	—	—

† Add 50 to number for Rear Mount * 1.875 IPS & 3M272 Tape ** @ 100 kHz

Head Description Metal Face Laminated Cores	Nortronics Model No. (No Mount) †	Case Size	O. E. M. Model No.	Head Function	RECORD/PLAYBACK										ERASE					
					1 kHz Inductance	1 kHz Impedance	Maximum Bias Frequency	DC Resistance	Gap Spacer	1 kHz Crosstalk Rejection	60 kHz Peak Bias	Bias Voltage RMS 60 kHz	Record Current	1 kHz Output RMS	10 kHz/1 kHz Ratio	1 kHz Inductance	60 kHz Impedance	Operating Erase Current	DC Resistance	60 kHz RMS Operating Voltage
					MHY	OHMS	kHz	OHMS	MILS	OB	MA	VOLT	UA	MV	OB	MHY	OHMS	MA	OHMS	VOLT
4 Track Stereo .043 In. Track Width .136 In. C. to C. Track Spacing	6000	B	P-A2Q17K	R/P/E	400	2500	100	390	0.1	55	0.25	35	35	1.8	+1	80	3000	3.5	270	90-150
	6002	B	P-A2Q47K	R/P/E	400	2500	100	390	0.1	55	0.25	35	35	1.8	+1	10	2800	10-15	40	28-42
	6003	B	U-A2Q22K40	R/P/E	800	5000	80	700	0.1	55	0.30	45	45	2.4	-3	0.13	40	80-140	2	3-6
	6004	B	P-A2Q44R	R/E	50	400	250	90	0.5	55	0.65	7.5	60	—	—	10	2800	10-15	40	28-42
	6005†	B	V-A2Q46K2	R/P/E	200	1300	120	200	0.1	55	0.40	25	50	1.3	+1	10	2800	10-15	40	28-42
	6006	B	P-A2Q48R	R/E	10	70	500	32	0.5	55	1.3	3.0	140	—	—	10	2800	10-15	40	28-42
	6007	B	P-A2Q48K	R/P/E	20	170	—	32	0.1	55	1.7	8	140	.35	+1	10	2800	10-15	40	28-42
	6008	B	P-A2Q125L	R/P/E	25	175	—	40	0.16	55	1.1	10	80	0.48	+1	8.5	—	—	28	45
	6009	B	A2Q42N2	R/P/E	500	3300	100	700	0.2	55	0.15	25	23	3.0	-3	10	2800	10-15	40	28-42
4-Track Mono .043 In. Track Width	6025	B	A1QC22K	R/P/E	800	5000	80	700	0.1	—	0.30	45	25	2.4	-3	0.13	40	80-140	2	3-6
	6026	B	A1QC47K	R/P/E	400	2500	100	390	0.1	—	0.42	35	35	1.6	-3	10	2800	10-15	40	28-42
	6027	B	A1QC17K	R/P/E	400	2500	100	240	0.1	—	0.42	30	25	1.6	-1	80	30000	3.5	270	90-150
2-Track Stereo .080 In. Track— .016 In. C. to C.	6100	B	P-A2H47K	R/P/E	400	2500	100	410	0.1	55	0.33	40	40	2.4	+1	8	2000	16-24	35	32-48
	6101†	B	P-A2H44R	R/E	50	320	200	130	0.5	55	0.70	9	75	—	—	8	2000	16-24	35	32-48
	6152	B	P-A2H47K-R6	R/P/E	400	2500	100	410	0.1	55	0.33	40	40	2.4	+1	8	2000	16-24	35	32-48
	6103†	B	P-A2H44K	R/P/E	100	650	150	130	0.1	55	0.8	20	80	1.2	0	8	2000	16-24	35	32-48
6104	B	P-A2H48R	R/E	10	72	500	27	0.5	55	1.7	3.0	200	—	—	8	2000	16-24	35	32-48	
2-Track Mono .080 In. Track Width	6125	B	A1HC11K	R/P/E	800	5000	60	400	0.1	—	0.4	65	30	3.4	-3	80	25000	4.5-7.0	205	100-150
	6126	B	P-A1HC44R	R/E	50	320	200	70	0.5	—	0.70	9	75	—	—	8	2000	16-24	35	32-48
	6127†	B	A1HC47K	R/P/E	400	2500	100	165	0.1	—	0.33	40	40	2.4	+1	8	2000	16-24	35	32-48
	6128	B	V-A1HC46K2	R/P/E	200	1300	100	245	0.1	—	0.40	30	60	1.8	+1	8	2000	16-24	35	32-48
	6129†	B	A1HC47R	R/E	200	1300	150	370	0.5	—	0.30	22	40	—	—	8	2000	16-24	35	32-48
	6131	B	A1HC15L2	R/P/E	450	3000	—	340	0.16	—	0.3	30	24	2.6	-7	50	12000	6	130	80
	6132	B	A1HC44K-N	R/P/E	100	650	—	70	0.1	—	1.2	23	66	1.1	-1	10	2500	17	27	36
	6183	B	A1HC44R-R	R/E	50	340	—	70	0.5	—	0.9	11	63	—	—	10	2500	17	27	36
6184	B	A1HC27K-R	R/P/E	400	2650	—	180	0.1	—	0.53	42	32	2.1	-1	2	55	75	1.8	4	
Special "Z" Combo	6300**	B	XZR1NC75K	R/P/E	500	3600	—	1500	0.1	—	*	*	30	1.1	-12	0.6	—	33*	7.5	2.4*
	6301**	B	XZR1LC47K	R/P/E	450	3600	—	1000	0.1	—	*	*	22	0.8	-14	1.3	—	13*	80	35*
	6302**	W	XZW1LC47K	R/P/E	400	3000	—	600	0.1	—	*	*	30	0.7	-15	10	—	18*	75	37*
	6303	—	H800135	R/P/E	350	2400	—	705	0.1	—	*	*	55	95	+1	11.5	—	120*	47	15*
8 Tr. (.020 In.) Stereo	6800	B	ZJ2L47K	R/P/E	425	2500	100	680	0.1	50	*	*	22	0.7	-12	14	3000	12*	45	35*

† Add 50 to number for Rear Mount. * Z Combo operation - Record bias automatically coupled to R/P section when erase section energized. ** 3.75 IPS

Magnetic Head Specifications

Head Description Hyperbolic Metal Face Laminated Cores	Nortronics Model Number	Case Size	O. E. M. Model Number	Head Function	Application (see notes)	Average 7.5 IPS Constant-Current R/P characteristics, using 3M190 tape, peak biased at 1 kHz and re- corded 12 db below tape saturation,										
						1 kHz Inductance MHY	1 kHz Impedance OHMS	DC Resistance OHMS	Gap Spacer MILS	1 kHz Crosstalk Reduction DB	Peak Bias 60 kHz MA	Bias Voltage RMS 60 kHz VOLT	Record Current UA	1 kHz Output MV	10 kHz/1 kHz Ratio DB	
2-Tr. (.080 In.) St. (.160 C.C.) Rear Mt.	7250	B	B2H2K-R6	Record/Play	-	800	5000	60	720	0.1	55	0.4	65	30	3.4	-1
2-Tr. (.080 In.) St. (.160 C.C.) Rear Mt.	7251	C	P-C2H7K-R5-4U	Record/Play	3	400	2500	100	410	0.1	55	0.33	40	40	2.4	+1
2-Tr. (.080 In.) St. (.160 C.C.) Rear Mt.	7252	C	P-C2H4R-R5-4U	Record	B	50	320	200	130	0.5	55	0.70	9	75	-	-
3-Tr. (.042 In.) .100 C.C., Rear Mt. Webcor Pole	7253	C	P-C3Q4R-R5-4U	Record	B	50	400	250	260	0.5	55	0.65	7.5	60	-	-
7400																
2-Tr. (.090 In.) Mono Base Mt.	7401	G	GMH3L-B3	Record/Play	-	400	2500	80	350	0.16	-	0.8	25	30	3.0	-9
2-Tr. (.080 In.) Mono Base Mt. Trk. Up	7405U	G	T1HY7K24-9B29UX2	Record/Play	-	400	2500	100	165	0.1	-	0.6	45	40	2.2	-3
2-Tr. (.080 In.) Mono Base Mt. Trk. Down	7405D	G	T1HY7K24-9B29DX2	Record/Play	-	400	2500	100	165	0.1	-	0.6	45	40	2.2	-3
2-Tr. (.080 In.) St. (.160 In. C.C.) No Mt.	7406	G	G1HY5L26-NO	Record/Play	-	450	3000	100	350	.160	-	.30	35	0.23	3.0	0
2-Tr. (.080 In.) Mono No Mt.	7410	B	B1HC27L-NO	Play	12	4500	18K	-	2.5K	0.16	-	-	-	-	10	0
2-Tr. (.080 In.) Mono No Mt.	7411	B	B1HC27L57-NO	Play	13	4500	18K	-	2.5K	0.16	-	-	-	-	10	0
Extended Pole (.020 In.)	7412	C	XA-C1QC13K-N16	Play	-	170	-	-	275	0.1	-	-	-	-	0.5	0
2-Tr. (.080 In.) Mono, Relieved Face	7414	B	B1HC7K19-NO	Play	-	400	2500	100	180	0.1	-	0.6	45	40	2.2	-3
2-Tr. (.080 In.) Mono Record	7415	G	G1HY4R-NO	Record	-	50	70	-	340	0.5	-	0.9	11	63	-	-
2-Tr. (.080 In.) Mono Play	7416	G	G1HY4K-NO	Play	-	100	650	150	70	0.1	-	1.1	20	80	1.1	-4
Special Full Track Monitor Play	7417	L	MEF2M2	Playback	-	110	800	-	365	-	-	-	-	-	-	-
2-Tr. (.080 In.) Mono No Mt.	7418	B	B1HC7K-NO	Record/Play	-	400	2500	100	180	0.1	-	0.6	45	40	2.2	-3
Extended Pole (.013 In.)	7419	B	X-R1NC10K-NO	Play	-	500	3500	-	690	0.1	-	-	-	-	0.7	-14
2-Tr. (.080) Mono Base Mt.	7420	G	T1HY2T10-B24	Read/Write	-	1.8	-	-	3.5	2	-	7.0	3.2	.37	-	-
Cassette Read After Write	7421	W	DC22R060K3-A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dual Diagonal	7422	K	H800136	Record/Play	-	400	2900	-	240	0.1	-	.41	26	30	1.5	+5
2-Tr. (.080 In.) Mono Rear Mt.	7450	B	B1HY2K-R6	Record/Play	-	800	5000	60	720	0.1	-	0.4	65	30	3.4	-1
2-Tr. (.080 In.) Mono Rear Mt.	7458	C	XPC1H7K-R7	Record/Play	-	400	2500	100	165	.100	-	.33	40	.040	2.4	2
2-Tr. (.080 In.) Mono Spec. Rear Mt.	7466	B	C1HY7K-R5	Record/Play	-	400	2500	100	180	0.1	-	0.6	45	40	2.2	-3
2-Tr. (.080 In.) Mono Spec. Rear Mt.	7468	B	B1HC7K-R6	Record/Play	-	400	2500	100	180	0.1	-	0.6	45	40	2.2	-3
4-Tr. (.043 In.) St. (.136 C.C.) No Mt.	7600	G	G2Q2K-NO	Record/Play	-	800	5000	80	700	0.1	55	0.3	45	25	2.4	-2
4-Tr. (.043 In.) St. (.136 C.C.) Base Mt.	7601	B	P-R2Q7K7-B6	Record/Play	-	400	2500	100	390	0.1	55	0.25	35	35	1.8	+1
4-Tr. (.043 In.) St. (.136 C.C.) No Mt.	7602	B	P-B2Q4F17-N9	Playback	-	150	900	-	100	.05	55*	.65	18	41	.65*	-10*
4-Tr. (.043 In.) St. (.136 In. C.C.) No Mt.	7603	G	G2Q6K-NO	Record/Play	-	200	1300	120	200	0.1	55	.70	25	.050	1.2	-3
4-Tr. (.043 In.) St. (.136 In. C.C.) No Mt.	7606	C	C2Q7K-NO	Record/Play	-	400	2500	100	390	0.1	55	.42	35	35	1.6	-3
4-Tr. (.043 In.) Mono (.136 In. C.C.) No Mt.	7607	G	G1QY7K26	Record/Play	-	400	2500	100	390	0.1	-	.42	35	35	1.6	-3
4-Tr. (.043 In.) St. (.136 In. C.C.) No Mt.	7608†	G	P-G2Q7K	Record/Play	-	400	2500	100	390	0.1	55	.25	35	35	1.8	+1
8-Tr. (.020 In.) 4 Chan. Base Mt.	7609	B	P-BQL4K-39B38	Record/Play	-	100	600	-	270	0.1	55	.4**	25	42	0.5	0
4-Tr. (.043 In.) Mono No Mt.	7610	B	P-B1QY6F2-N4	Play	-	200	1400	-	135	0.05	-	-	-	-	1.2	+1
4-Tr. (.043 In.) St. (.136 In. C.C.) No Mt.	7620	B	CSQ9N4-N2	Record/Play	-	650	5000	50	600	0.2	55	0.03	45	20	2.5	-3
4-Tr. (.043 In.) St. (.136 In. C.C.) Rear Mt.	7654	B	B2Q7K-R6	Record/Play	-	400	2500	100	390	.100	55	.42	35	35	1.6	-3
4-Tr. (.043 In.) St. (.136 In. C.C.) Rear Mt.	7658	G	P-G2Q7K-R5	Record/Play	-	400	2500	100	390	0.1	55	0.25	35	35	1.8	+1
4-Tr. (.043 In.) St. (.136 C.C.) No Mt.	7700	G	P-G2Q6K-N	Record/Play	-	200	1300	120	200	0.1	55	0.40	25	50	1.3	+1

†Add 60 to number for rear mount. * 3.75 IPS Data. ** 100 kHz Data.

Head Description Hyperbolic Metal Face Laminated Cores	Nortronics Model Number (No Mount)	O. E. M. Model Number	Head Function	Application (see notes)	Average 7.5 IPS Constant-Current R/P characteristics, using 3M190 tape, peak biased at 1 kHz and re- corded 12 db below tape saturation,										N/R2 Digital Read/Write Data at 7.5 IPS, using 3M777 tape, 400 BPI		
					1 kHz Inductance MHY	1 kHz Impedance OHMS	DC Resistance OHMS	Gap Spacer MILS	1 kHz Crosstalk Reduction DB	Peak Bias Current MA	Bias Voltage RMS 100 kHz VOLT	Record Current UA	1 kHz Output RMS MV	10 kHz/1 kHz Ratio DB	Write P-P MA	Read Current P-P MV	Read Output 200 BPI
2-Track Stereo .080 In. Track Width .160 In. C. to C. Track Spacing	8200	WP-B2H2K	Play	-	800	5000	380	0.16	55	-	-	3.5	0	1.3	72	1600	
	8201	P-B2H8R	Record	-	10	72	27	0.5	55	1.7	6	200	-	9.0	12	400	
	8202	WP-B2H6K	Play	-	200	1300	190	0.16	55	0.40	30	60	1.8	+1	2.7	36	1600
	8203	P-B2H3R	Record	-	30	200	72	0.5	55	0.9	15	100	-	4.0	20	400	
	8204	P-B2H4R	Record	-	50	320	130	0.5	55	0.7	18	75	-	3.4	24	400	
	8205	WP-B2H7K12-3N2	Play	-	400	2500	250	0.1	55	-	-	2.1	0	1.8	48	1600	
	8206	P-B2H37R12-3N2	Record	-	3.7	26	16	0.5	55	4.3	5.5	250	-	14	9	400	
	8208	WP-B2H7F	Play	-	450	3300	410	0.05	55	-	-	2.2	+2	1.8	48	1600	
	8209	WP-B2H7K	Record/Play	-	400	2500	410	0.1	55	0.33	60	40	2.4	+2	1.8	48	1600
	8210	WP-B2H8K	Record/Play	-	20	150	24	0.1	55	2.4	13	135	4	0	9.0	12	1600
8214	P-B2H14R	Record	-	2.0	15	5.5	0.5	55	5.0	3.5	250	-	18	7	400		
2-Track Mono .080 In. Track Width	8400	WP-B1HY2K	Play	-	800	5000	380	0.16	-	-	-	3.5	0	1.3	72	1600	
	8401	P-B1HY8R	Record	-	10	75	14	0.5	-	1.7	6	200	-	9.0	12	400	
	8402	WP-B1HY9K	Play	-	20	150	-	0.1	-	-	-	0.5	0	9.0	12	1600	
	8403	WP-B1HY7K	Record/Play	-	400	2500	165	0.1	-	0.33	60	40	2.4	+1	1.8	48	1600
	8404	P-B1HY4R	Record	-	50	320	70	0.5	-	0.7	18	75	-	3.4	24	1400	
	8406	WP-B1HY7F	Play	-	500	3300	165	0.05	-	-	-	2.2	+3	1.8	48	1600	
	8408	P-B1HY6K24	Record/Play	-	200	1300	110	0.1	-	0.4	30	60	1.8	+1	2.7	36	1600
	8409	WP-B1HY9K	Record/Play	-	10	65	20	0.1	55	3.0	60	300	.37	0	16	8	1600
	8414	P-B1HY14R	Record	-	2.0	15	5.5	0.5	-	5.0	3.5	250	-	18	7	400	
	4-Track Stereo .043 In. Track Width .136 In. C. to C. Track Spacing	8600	WP-B2Q2K	Play/Record	-	800	5000	700	0.1	55	-	-	2.6	+1	1.1	52	1600
8601		WP-B2Q7F	Play	-	500	3300	390	0.05	55	-	-	1.8	+2	-	-	-	
8602		P-B2Q3R	Record	-	30	200	60	0.5	55	0.80	12	78	-	3.0	15	400	
8603		P-B2Q4R	Record	-	50	400	160	0.5	55	0.65	15	60	-	2.7	18	400	
8604		P-B2Q8R	Record	-	10	70	32	0.5	55	1.3	6	140	-	6.2	9	400	
8606		WP-B2Q4K	Record/Play	-	100	750	100	0.1	55	0.7	18	45	0.8	+1	-	-	
8607		WP-B2Q6K	Record/Play	-	200	1300	200	0.1	55	0.4	40	50	1.3	+1	2.2	26	1600
8608		WP-B2Q7K	Record/Play	-	400	2500	390	0.1	55	0.25	60	35	1.8	+1	1.6	36	1600
8609		WP-B2Q5K	Record/Play	-	5	35	5	0.1	55	5.0	8	350	0.2	+1	-	-	
8610		WP-B2Q8K	Record/Play	-	20	140	32	0.1	50	1.5	10	100	.35	-	6.2	8	1600
8614		P-B2Q14R	Record	-	2.0	15	6.0	0.5	55	3.8	2.5	250	-	13	4	400	
8618		P-B2Q18R-NO	Record	-	4.2	28	8.5	0.5	50	2.5	2.9	180	-	-	-	-	
8619		P-B2Q18R-B18	Record	1A	4.2	28	8.5	0.5	50	2.5	2.9	180	-	-	-	-	
8620	WP-B2Q2K-B18	Play	1A	800	-	700	0.1	55	-	-	-	2.6	1	-	-		
Full Track .240 In. Track Width	9100	PR-B1F12N-B18	Play	1A	650	4000	275	0.20	-	-	-	5	+2	3	120	800	
	9101	PR-B1F11R-B18	Record	1A	4	27	3.3	0.50	-	9	14	540	-	22	14	400	
	9102	PR-B1F12N-NO	Play	-	650	4000	275	0.2	-	-	-	5	+2	3	120	800	
	9103	PR-B1F8R-NO	Record	-	10	70	10	0.5	-	5	22	350	-	14	22	400	
	9104	PR-B1F11R-NO	Record	-	4	27	3.3	0.5	-	9	14	540	-	22	14	400	
	9105	PR-B1F4R-NO	Record	-	50	320	60	0.5	-	1	45	150	-	6	50	400	
	9106	PR-B1F9K-NO	Play	-	10	66	15	0.1	-	-	-	0.5	+2	25	12	1600	
	9107	PR-B1F3R12-3N2	Record	2A	30	200	19	0.5	-	1.6	35	200	-	8	40	400	
	9108	PR-B1F7K12-3N2	Play	2A	400	2500	195	0.1	-	-	-	3.5	+2	4	90	1600	
	9109	PR-B1F5N-NO	Record/Play	-	5	33	2.5	0.2	-	12	16	650	0.5	+2	26	12	800
	9110	PR-B1F4N-NO	Record/Play	-	100	650	60	0.2	-	1.9	80	150	2.4	+2	6	50	800
	9111	PR-B1F6N-NO	Play	-	200	1300	170	0.2	-	-	-	3.3	0	5	75	800	
	9112	PR-B1F3R-NO	Record	-	3	200	19	0.5	-	1.6	35	200	-	8	40	400	
9113</																	

Magnetic Head Specifications

Professional Heads (B Case) – Continued	Head Description Hyperbolic Metal Face Laminated Cores	Nortronics Model Number (No Mount)	O. E. M. Model Number	Head Function	Application (see notes)	Average 7.5 IPS Constant Current R/P characteristics, using 3M190 tape, peak biased at 1 kHz and re- corded 12 db below tape saturation.										NRZ Digital Read/Write Data at 7.5 IPS, using 3M777 tape, 400 BPI							
						1 kHz Inductance		1 kHz Impedance		DC Resistance		Gap Spacer		1 kHz Crosstalk Reduction		Peak Bias Current	Bias Voltage RMS 100 kHz	Record Current	1 kHz Output RMS	10 kHz/1 kHz Ratio	Write Current	Read Output 200 BPI	Max. Read Pack. Dens.
						MHY	OHMS	OHMS	MILS	DB	MA	VOLT	UA	MV	DB	P MA	P MV	BPI					
(Continued) Full Track .240 In. Track Width		9119	PR-B1F7K-NO	Playback		400	2500	195	0.1						3.5	+3							
		9120	PR-B1F2K-NO	Playback		650	4200	395	0.1						4.0	+3							
2-Track Stereo .082 In. Track Width .156 In. C. to C. Track Spacing		9200	PR-B2H12L-818	Play	1A	700	4400	570	0.16	50					3.0	+2	1.6	75	800				
		9201	PR-B2H11R-818	Record	1A	4.5	33	15	0.5	50	6	10	360				16	8	400				
		9202	PR-B2H12K-NO	Play		650	4200	400	0.1	50					2.5	+3							
		9203	PR-B2H8R-NO	Record		10	70	24	0.5	50	3.3	14	190				10	12	400				
		9204	PR-B2H11R-NO	Record		4.5	33	15	0.5	50	6	10	360				16	8	400				
		9205	PR-B2H4R-NO	Record		50	330	95	0.5	50	0.65	30	80				4.5	26	400				
		9206	PR-B2H9K-NO	Play		10	70	15	0.1	55					0.4	+2	16	8	1600				
		9207	PR-B2H6K-NO	Record/Play		200	1400	210	0.1	55	0.8	54	75	1.45	+4								
		9209	PR-B2H5L-NO	Record/Play		4	28	4	0.16	50	8	12	500	0.25	+2	22	4.5	800					
		9210	PR-B2H8K-NO	Play		20	130	22	0.1	50					5	+3	10	12	1600				
		9211	PR-B2H4K-NO	Record/Play		100	640	100	0.1	50	0.8	55	100	1.1	+2	4.5	26	1600					
		9213	PR-B2H7K-NO	Record/Play		400	2500	300	0.1	50	1.3	130	550	2.0	+2	2.5	50	1600					
		9214	PR-B2H14R-NO	Record		2	18	10	0.5		7.5	6	510										
		9216	PR-B2H11K	Playback		7	50	14	0.1	50					3	+3							

Studio Heads	Head Description Hyperbolic Metal Face Laminated Cores	Nortronics Model Number (No Mount)	O. E. M. Model Number	Head Function	Application (see notes)	Average 7.5 IPS Constant-Current R/P characteristics, using 3M190 tape, peak biased at 1 kHz and re- corded 12 db below tape saturation.														
						1 kHz Inductance		1 kHz Impedance		DC Resistance		Gap Spacer		1 kHz Crosstalk Reduction		Peak Bias Current	Bias Voltage RMS 100 kHz	Record Current	1 kHz Output RMS	10 kHz/1 kHz Ratio
						MHY	OHMS	OHMS	MILS	DB	MA	VOLT	UA	MV	DB					
1/2" Three Channel .100 In. Track Width .185 In. C. to C.		9360	STP-3S9-E13	Play	4A	800	5000	360	0.2	55							3.5	+3		
		9361	STR-3S5-E12	Record	4A	4	30	9	0.5	55	5	10	400							
		9460	STP-4B8-E3	Play	4A	650	4000	530	0.2	55							3.0	+3		
		9461	STR-4B7-E23	Record	4A	4	47	40	0.5	55	5	9	380							
		9462	STP-4B8-N46	Play	5A	650	4000	530	0.2	55							3.0	+3		
		9463	STR-4B7-N55	Record	5A	4	47	40	0.5	55	5	9	380							
		9464	STP-4B8-F53	Play	6A	650	4000	530	0.2	55							3.0	+3		
		9465	STR-4B7-F64	Record	6A	4	47	40	0.5	55	5	9	380							
		9466	STR-4B7-N46	Record	4A	0.1	2	86	0.5	55	33	1.3	2200							
		9467	STR-4B7-N55	Record	7A	4	30	13	0.4	55	5.6	10	330							
		9468	STP-4B23-G87	Play	7A	8	50	15	0.2	55							0.3	+1		
		9469	STR-4B31-E99	Record		4			10	0.2	55	7.0	11.5	43						
		9474	STP-4B23-F93	Play		8	50	15	0.2	55							0.3	+1		
		9476	STP-4B32-E100	Play	4A	100	700	150	0.1	55							0.9	+3		
1" Eight Channel .070 In. Track Width .130 In. C. to C. Track Spacing		9880	STP-8B8-E33	Play	4A	650	4000	530	0.2	55							3.0	+3		
		9881	STR-8B7-E50	Record	4A	4	47	40	0.5	55	5	9	380							
		9883	STP-8B8-N49	Play	5A	650	4000	530	0.2	55							3.0	+3		
		9884	STR-8B7-N48	Record	5A	4	47	40	0.5	55	5	9	380							
		9885	STR-8B7-N48	Record	7A	4	30	13	0.4	55	5.6	10	330							
		9886	STP-8B23-G82	Play	7A	8	50	15	0.2	55							0.3	+1		
1" Twelve Channel .038 In. Track Width		9980	STP-12U21-E30	Play	4A	650	4000	720	0.2	50							1.7	+2		
		9981	STR-12U20-E24	Record	4A	6	45	36	0.5	50	5	10	300							
2" Twenty Four Channel .038 In. Track Width		9983	STR-24U28-G89	Record	7A	4	30	15	400	50	5.2	9	330							
		9984	STP-24U29-G90	Play	7A	5	35	15	200	50							17	+1		
2" Sixteen Channel .070 In. Track Width .130 In. C. to C. Track Spacing		9990	STP-16B8-E27	Play	4A	650	4000	820	0.2	55							3	+3		
		9992	STR-16B7-E09	Record	4A	4	47	40	0.5	55	5	9	380							
		9993	STR-16B7-N46	Record	7A	4	30	13	0.4	55	5.6	10	330							
		9994	STP-16B23-G85	Play	7A	8	50	15	0.2	55							0.3	+1		

Studio Head Assemblies	Head Description Metal Face Laminated Cores Ferrite Selective Erase	Nortronics Model No.	O. E. M. Model No.	Head Function	RECORD/PLAYBACK										ERASE											
					1 kHz Inductance *		1 kHz Impedance *		DC Resistance		Gap Spacer		1 kHz Crosstalk Rejection		Average 15 IPS Constant Current R/P characteristics, using 3M201 tape, peak biased at 1 kHz and re- corded 12 db below tape saturation		1 kHz Inductance		100 kHz Impedance		Operating Erase Current		DC Resistance		100 kHz RMS Operating Voltage	
					MHY	OHMS	OHMS	MILS	DB	MA	VOLT	UA	MV	DB	DB	MHY	OHMS	MA	OHMS	MA	VOLT					
1" Eight Channel		9887	H802003	E/R/P	50	320	275	0.3	50	7	8	440	1	+9	170	110	95	3	11							
1" Twelve Channel		9982	H802004	E/R/P	50	320	220	0.3	50	5	7.5	360	0.5	+9	170	90	95	4.5	11							
2" Sixteen Channel		9998	H802002	E/R/P	50	320	275	0.3	50	7	8	440	1	+9	170	110	95	3	11							

*Data shown full coil (playback). Coil is tapped for record winding.

Studio Erase	Head Description Full Metal Face	Std. No Mount Model No.	O. E. M. Model Numbers	Application (see notes)	1 kHz Inductance		1 kHz Impedance		DC Resistance		Operating Erase Current	
					MHY	OHMS	OHMS	VOLT	MA	MA		
					MHY	OHMS	OHMS	VOLT	MA	MA		
1/2" Three Channel		9370	STE-3S4-E11	4A	0.17		2.2	12	110			
		9470	STE-4B6-E1	4A	0.17		3	10	100			
	1/2" Four Channel	9471	STE-4B6-N44	5A	0.17		3	10	100			
		9472	STE-4B6-F51	6A	0.17		3	10	100			
		9473	STE-4B12-G88	7A	1.5		18	35	28			
1" Eight Channel	9890	STE-8B6-E31	4A	0.17		3	10	100				
	9891	STE-8B7-E28	7A	1.5		18	35	28				
1" Twelve Channel	9986	STE-12U19-E28	4A	0.17		4.5	10	80				
2" Twenty Four Channel	9987	STE-24U27-G91	7A	1.0		12	22	30				
2" Sixteen Channel	9996	STE-16B8-E25	4A	0.17		3	10	100				
	9997	STE-16B7-G83	7A	1.5		18	35	28				

Magnetic Head Specifications

■ Erase Heads

Head Description Full Metal Face	Std. No Mount Model No.	Case Size	O.E.M. Model Numbers	Application (see notes)	1 kHz Inductance MHY	60 kHz Impedance OHMS	DC Resistance OHMS	100 kHz Operating Voltage RMS VOLT	Operating Erase Current ** MA	
4-Track Stereo	1400†	S	SSEQ1-N9	—	80	30000	270	90-150*	3-5	
	1400L	L	LSEQ1-N2	—	80	30000	270	90-150*	3-5	
	1401†	S	SSEQ4-N9	—	10	2800	40	28-42*	10-15	
	1401L	L	LSEQ4-N2	—	10	2800	40	28-42*	10-15	
	1402	S	SSEQ2-N9	—	0.13	40	2	3-6*	80-140	
	1404	S	SSEQ3-N9	—	55	17000	200	70-120*	4-8	
	1407	S	SSEQ7-N9	—	30	8000	72	50-85*	7-11	
	1408	S	SSEQ8-N9	—	2.0	500	6	15-25*	30-50	
	1410	S	SSEQ5-B2	—	8	3000	30	25*	10	
2-Track Stereo	2200†	S	SSEH1-N9	—	80	25000	205	100-150*	4.5-7.0	
	2200L	L	LSEH1-N2	—	80	25000	205	100-150*	4.5-7.0	
	2201†	S	SSEH4-N9	—	8	2000	35	32-48*	16-24	
	2201L	L	LSEH4-N2	—	8	2000	35	32-48*	16-24	
	2202	S	SSEH2-N9	—	0.20	50	2	5-8*	100-150	
	2203	S	SSEH9-N9	—	4	800	17	20-30*	20-25	
2-Track Mono	3600†	S	SMEH1-N9U	—	80	25000	205	100-150*	4.5-7.0	
	3600L	L	LMEH1-N4	—	80	25000	205	100-150*	4.5-7.0	
	3601†	S	SMEH4-N9U	—	8	2000	35	32-48*	16-24	
	3601L	L	LMEH4-N4	—	8	2000	35	32-48*	16-24	
	3602	S	SMEH2-N9U	—	0.20	50	2	5-8*	100-150	
	3604	S	SMEH9-N9U	—	4	800	17	20-30*	20-25	
Full Track	4400†	S	SMEF1J-N9	—	40	12000	88	100-150*	10-15	
	4400L	L	LMEF1-N2	—	40	12000	88	100-150*	10-15	
	4401†	S	SMEF4J-N9	—	3.6	1000	25	32-48*	32-48	
	4401L	L	LMEF4-N2	—	3.6	1000	25	32-48*	32-48	
	4402	S	SMEFBJ-N9	—	2.6	600	20	30*	50	
	4404	S	SMEF2-N9	—	0.85	17	1.3	7*	300	
	4408	S	SMEFBJ-8	—	5	1200	25	32*	26*	
	4409	S	SMEFBJ-8	—	5	1200	25	32*	26*	
Miniature "M" Series	4953	M	M90E3U4	—	16	4000	315	50*	12*	
	Cassette 2-Track 2 Channel	5210	C	W2ER3-A	—	2	—	12	20	16
		5211	C	W2ER4-A	—	12	—	100	53	6.1
		5212	C	W2ER5-A	—	1.0	680	10	18	23
5213	C	W2ER9-A	—	.28	180	2.2	10	60		
Miniature Rear Mount	5350	M	L42E6U	—	5	1200	38	32-48*	28-42	

† Add 50 to number for rear mount * @ 60 kHz ** For 60 db erasure of saturated tape

■ Special Erase

2-Track Mono	7407	S	SMEH1A	—	50	25000	160	100-150*	4.5-7.0
	7408	S	SMEH18	—	50	25000	160	100-150*	4.5-7.0
Webcor Assembly	7500		SMEH18-13N						
2-Track Stereo Base Mt.	7708	S	SSEC2	—	19	4400	45	40-65*	11-17
1" Full Track Erase	7721	—	H806036	—	1	400	8	60*	150
4 Track Stereo Spec. Mt.	7722	S	SSEQ5-178	—	8	3000	30	25*	10

* @ 60 kHz

■ Professional Erase (B Case)

Full Track	8101	B1EF1J-NO	—	40	12000	88	160-200	10-15	
	8102	B1EF2J-NO	—	0.085	24*	1.3	10-14	250-350	
	8104	B1EF4J-NO	—	3.6	1000	25	50-70	32-48	
	8105	B1EF5J-NO	—	0.6	250*	4	20-30	80-100	
	8106	B1EF6J-NO	—	6	1800	30	75-95	30-40	
	8109	B1EF9J-NO	—	2.6	600*	20	43-57	42-57	
8110	B1EF9-3N2	—	2.6	600*	20	50-70	42-52		
2-Track Stereo	8301	B2EH1-NO	—	50	20000	205	160-200	4.5-7.0	
	8302	B2EH2-NO	—	0.2	50	2	8-15	100-150	
	8304	B2EH4-NO	—	8	2000	35	50-70	16-24	
	8306	B2EH6-NO	—	0.7	250*	3.6	20-30	40-70	
	8307	B2EH4-3N2	—	8	2000	35	—	16-24	
	8309	B2EH9-NO	—	5	1000	100	37-63	21-38	
2-Track Mono	8501	B1EH1-NO	—	50	20000	205	160-200	4.5-7.0	
	8504	B1EH4-NO	—	8	2000	35	50-70	16-24	
	8506	B1EH6-NO	—	0.7	250*	3.6	20-30	40-70	
	8509	B1EH9-NO	—	5	1000	100	37-63	21-38	
	4 Track Stereo	8640	PR-B2EQ4-NO	—	3	—	28	26	15
8701		B2EQ4-NO	—	10	2800	40	45-60	10-15	
8702		B2EQ2-NO	—	0.13	40	2	5-12	80-140	
8704		B2EQ1-NO	—	80	30000	270	150-200	3-5	
8707		B2EQ2-B18	1A	0.13	40	2	5-12	80-140	
8708		B2EQ8-NO	—	2.0	500*	6	20-30	30-50	
Full Track Ferrite Cores		9125	PR-B1EF4-NO	—	1.2	—	3.8	55	88
		9126	PR-B1EF9-NO	—	1.7	—	6.6	50	50
	9127	PR-B1EF15-NO	—	0.50	—	3	40	125	
	9128	PR-B1EF17-NO	—	0.12	—	0.7	21	270	
	9130	PR-B1EF17-818	1A	0.12	—	0.7	21	270	
2-Track Stereo Ferrite Cores	9221	PR-B2EH14-818	1A	0.20	—	4	14	130	
	9222	PR-B2EH5-NO	—	2.0	—	11	46	42	
	9223	PR-B2EH14-NO	—	0.2	—	4	14	130	
	9226	PR-B2EH4-NO	—	6	—	50	70	25	
	9227	PR-B2EH15-NO	—	0.5	—	6	24	85	
9228	PR-B2EH16-NO	—	0.01	—	0.2	5	600		

* @ 80 kHz

APPLICATION NOTES:

- High-impedance general purpose R/P or Play Only.
- Playback Only.
- Medium-Impedance R/P.
- Medium-Impedance Record Only.
- Medium-low impedance R/P.
- Low-impedance R/P.
- Special low-impedance Record Only for vacuum tube or transistor circuits in duplicators and professional recorders.
- Low-impedance Record Only for vacuum tube or transistor circuits.
- Extended track head for use on super 8mm film—rear mount.
- Alfenol extended track head with special base mount for 16mm film strip (RCA - TP66).
- Flush-face for tape operation. Rear Mount.
- Flush-face for Moviola #36155.
- Relieved-face for Moviola #36155.
- Improved crosstalk for use on duplicating equipment and other critical applications.
- Special relieved face.
- Special mounting block for Scully recorders included.
- Special terminal pin configuration for old 105-18 plug included. Special RCA base grind for track height included.
- Not recommended for write head because of high inductance, except at low repetition rates. (1000 BPs or lower).
- Special Scully base plate mounting included.
- No mount with tapped 2-46 holes in base.
- Special Ampex 300 type mount included.
- MCI Mount supplied.

Nortronics Mounting Hardware and Accessories

Nortronics offers a variety of hardware and mounting accessories for use with replacement heads. These are available from nationwide Nortronics dealers as 'off the shelf' items and are detailed below:

BIAS OSCILLATOR TRANSFORMERS



T-70 SERIES
for p.c. board mounting only

- Cat. No. Description**
T70-T2 For Xsistor circuits, 50-120 KHz & 40, 80 or 120 Volts RMS.
T70-T5 For Xsistor circuits, 150-200 KHz.
T70-T6 For Xsistor circuits, 230-500 KHz & 70 Volts RMS.



T-60 SERIES
for chassis mounting only

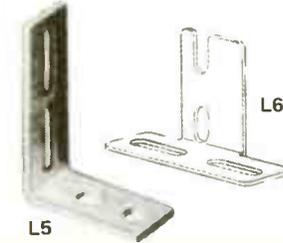
- Cat. No. Description**
T60-T2 For Xsistor circuits, 60-110 KHz & 40, 80 or 120 Volts RMS.
T60-T6 For Xsistor circuits, 230-500 KHz & 70 Volts RMS.
T60-E For Vacuum Tube circuits, 40-70 KHz & 7 or 120 Volts RMS.
T60-F For Vacuum Tube circuits, 60-100 KHz & 60 or 150 Volts RMS.



CONTACTOR HEAD
for end-of-tape sensing/
track switching

- CH-3-N/B** Contactor head, no mount head including base mount adapter
CH3-R Contactor head, Rear/Mount
WCH3-A Contactor head, cassette

MOUNTING BRACKETS



L5 Universal type for use with side-mount heads. Made of easily-worked aluminum. Includes hardware for mounting. Base Size: 13/32" W x 3/4" L.

L6 Plated Steel type with slotted base. Features left-hand bend for installing side-mount heads in locations that won't accept L5 brackets, or where longer, narrow base is required. Mounting hardware included. Base Size: 1 1/2" W x 1 1/2" L.

L7 type Right-hand bend version of the L6 described above.



TAPE GUIDE POST

TG-7 Precision guide for positioning and controlling tape path travel. Special chrome-plated brass finish for longest life, minimum wear. Supplied with a variety of mounting hardware.



TAPE GUIDE PLATE

TG-8 Stainless Steel for use with side-mount heads when space prohibits use of a TG-7 guide post or when replacing side-mount heads with a built-in tape guide. Can be used with L-5 or L-6 brackets. Slotted holes provide variable adjustment. Size: 21/32" H x 25/32" W.



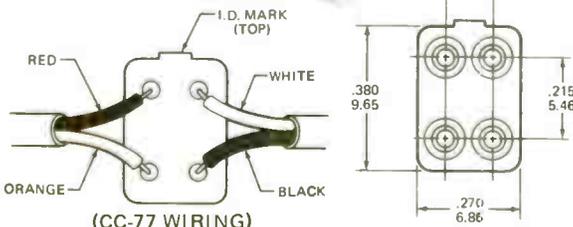
PIN CLIPS

- TC-54** Gold-plated beryllium copper (supplied in pks. of 100). For heads with .050" Pins
TC-91 Gold-plated beryllium copper (supplied in pks. of 100). For heads with .030" Pins

PRESSURE PAD STRIPS

- PP-5** Pressure Pad Strips, 5/Pkg.
PP-50 Pressure Pad Strips, 50/Pkg.

PLUG AND CABLE ASSEMBLIES



- CC-70** 18" Plug and shielded insulated cable assembly for new model Nortronics heads (except Mono Combo and Cassette heads).
CC-77 18" Plug and shielded insulated cable assembly for Nortronics Mono Combo and Cassette heads (except 5400 Series).
CC-110 4" Plug and unshielded cable assembly for Mono heads.
CC-111 4" Plug and unshielded cable assembly for Stereo heads.



PIN CLIPS AND CABLE ASSEMBLIES

- CC-55** 9" Terminal Clip and shielded cable assembly (red-orange) 2 per pkg. (for .050" pins only).
CC-56 As above — coded (yellow-blue)
CC-57 As above — coded (white-black)
CC-58 As above — coded (red-black)
CC-78 24" Terminal Clip and shielded cable assembly (red-orange) 2 per pkg. (for .050" pins only).
CC-79 As above — coded (yellow-blue)
CC-80 As above — coded (white-black)
CC-81 As above — coded (red-black)

WIRED AND ASSEMBLED CONVERSION KITS

- WR-35** Converts Wollensak & Revere recorders from 2-track stereo to 4-track stereo playback only
WR-40 Converts all Wollensak and later Revere Monophonic recorders to 4-track stereo playback only
WR-60 Converts all Wollensak and later Revere Monophonic and 2-track stereo recorders to 4-track stereo record and playback
W-2 & W-6 Converts Webcor tape recorders to 4-track stereo
W-2 conversion kit for models 2010, 2020, 2100, 2600 & 2700 Series
W-6 conversion kit for models 2800, 2900 and 2000 Series (except 2020)
W-2 conversion kit for models 210, 2020, 2100, 2600 & 2700 Series.
W-6 conversion kit for models 2800, 2900 and 2000 Series (except 2020)

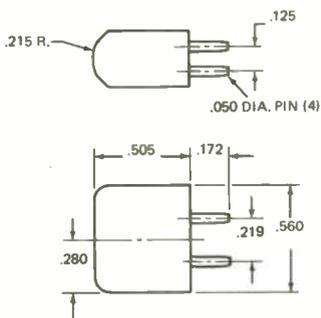
NORTRONICS Quik-Kit Mounting Brackets

For fast, easy replacement
of recording heads

S CASE

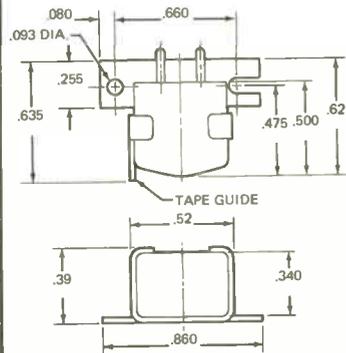
**SIDE-MOUNT
FOR "S" CASE
USE QK-18**

**BASE-MOUNT
FOR "S" CASE
USE QK-19**



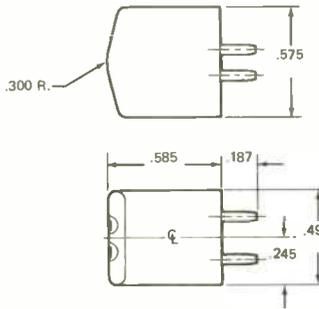
W CASE

(WITH "A" MOUNT
CASSETTE ONLY)



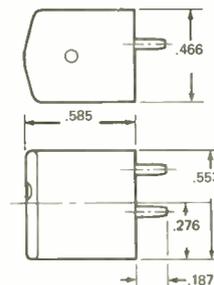
B CASE

**SIDE-MOUNT
USE QK-38
BASE-MOUNT
USE QK-66**



G CASE

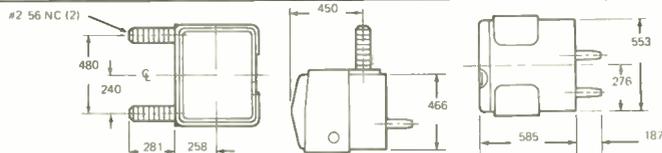
**SIDE-MOUNT
USE QK-20
BASE-MOUNT
USE QK-21**



REPLACEMENT MOUNTINGS

QK-18 Side-mount bracket with 2 studs for 'S'-Case Erase Heads

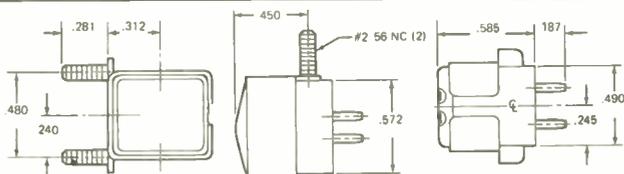
QK-19 Base-mount bracket with 1 stud for 'S'-Case Erase Heads



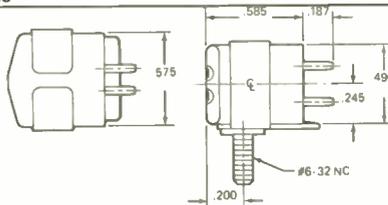
***QK-20** Side-mount bracket with 2 studs for 'G'-Case R/P Heads

QK-21 Base-mount bracket with 1 stud for 'G'-Case R/P Heads

QK-35 Mounting hardware to replace most BRUSH heads with Nortronics heads 'B'-Case



***QK-38** Side-mount bracket with 2 studs for 'B'-Case Erase or R/P Heads



***QK-66** Base-mount bracket with 1 stud for 'B'-Case Erase or R/P Heads

QK-74 **Universal Mounting Bracket.** A unique, general-purpose assembly featuring alignment for head, face & azimuth. Two TG-7 Guide Posts may be added if desired, or tabs for guide posts may be snapped-off for limited space applications. Base features holes for mounting on recorder. For all Nortronics No-Mount Record, Play, Record/Play, and Combo heads except 3000-3299 Series and miniature heads. Also fits special 'B'-Case Erase Heads. Base size with tabs: $1\frac{1}{4}$ " W x $1\frac{3}{4}$ " L. Without tabs: $1\frac{1}{4}$ " W x $1\frac{1}{2}$ " L.



QK-75 Identical to QK-74, but two TG-7 Guide Posts are included.

QK-77 Identical to QK-74, but for No-Mount heads in the 3000-3299 Series

QK-78 Identical to QK-74, but for No-Mount erase heads. Does not fit special 'B'-Case or 'L'-Case heads



QK-76 Mounting hardware to convert many AMPEX nests to Nortronics heads. Includes mounting block with hardware and plug

OTHER MOUNTS AVAILABLE

QK-79	Amplex Mount	QK-102	Sony Mount
QK-82	Tandberg Mount	QK-105	Bell & Howell Mount
QK-84	Concertone Mount	QK-106	Concertone Mount
QK-86	Amplex Mount	QK-119	Sony Mount
QK-87	Amplex Mount	QK-300	Pentron Mount
QK-88	Magnecord Mount	QK-304	Concertone Mount
QK-91	Scully Mount	QK-305	Sony Mount
QK-100	Pentron Mount	QK-306	Sony Mount
QK-101	Bell & Howell Mount		

CARTRIDGE MOUNTING BRACKETS



QK-110 3-head cartridge mount for stereo R/P or combo heads ('B' Size). Supplied unassembled.

QK-111 3-head cartridge mount for mono R/P heads ('G' Size). Supplied unassembled.

QK-112 Individual cartridge head-mount bracket for stereo R/P or combo heads ('B' Size).

QK-113 Individual cartridge head-mount bracket for mono R/P heads ('G' Size).

QK-114 2-head cartridge-mount bracket for stereo R/P or combo heads ('B' Size). QK-114 is supplied assembled.

QK-115 2-head cartridge mount for stereo R/P heads ('G' Size). QK-115 is supplied assembled.



QK-117 2-head cartridge mount for one stereo R/P head ('B' Size) and one mono head ('G' Size). QK-117 is supplied assembled.

ABBREVIATIONS IN THIS CATALOG

FT	Full Track, 1/4-inch	1/4" R-R	1/4-inch Reel-to-Reel. (Duplicator)
2TM	Two-Track Mono	R MAS	Reel Master
2M	Two-track Mono	CAS MAS	Cassette Master
2T	Two-Track, Two Channel	C-C	Cassette-to-Cassette Duplicator
2TS	Two-Track Stereo	CAS SL	Cassette Slave
2S	Two-Track Stereo	R SL	Reel Slave
4TS	Four-Track Stereo, 1/4-inch	1/4" R-C	1/4-inch Reel-to-Cassette Duplicator
4CH 1/2"	Four-Channels on 1/2-inch Tape	1/4" R/C-S	1/4-inch Reel and Cassette Master to Cassette Slave
4CH 1/4"	Four-Channels on 1/4-inch Tape	CAS R-R	Cassette 150-mil Reel-to-Reel
8TS	8-Track Stereo, 1/4-inch Tape	4TS CAS	4-Track Stereo Cassette
8TQ	8-Track Quadraphonic (4-Ch.)	2TM CAS	2-Track Mono Cassette (Single-Ch. Head)
8T 1/4"	8-Channels on 1/4-inch Tape	4CH 4T	Four Channels of 4-Track System on 1/4-inch Tape
8CH 1"	Eight Channels on 1-inch Tape	2CH 4T	Two Channels of 4-Track System, similar to 4-Track Stereo
12CH 1"	Twelve Channels on 1-inch Tape	C SL	Cassette Slave
16CH 2"	Sixteen Channels on 2-inch Tape	C MAS	Cassette Master
24CH 2"	24-Channels on 2-inch Tape	CR SL	Cassette Reel Slave
4CH CAS	Four Channels on Cassette Tape (4-Ch. Head)	S CAS	Stereo Cassette (4-Track)
4T CAS	Four Channels on Cassette Tape (4-Ch. Head)	S NAB	Stereo, NAB, Broadcast, 2 Program plus 1 Cue (3-Ch.)
2T CAS	Two Channels of Mono on Cas. Tape. (2-Ch. Head)	M NAB	Mono, Broadcast, 1 Program plus 1 Cue (2-Ch.)

REFERENCE NOTES

- Epoxy head to bracket.
- Epoxy head to original plate.
- Use two playback heads.
- Ground one side of erase head, connect other side to one erase lead, float other lead.
- Change erase coupling capacitors C45 and C46 to .02 mfd.
- Mounting not available.
- Erase head replacement requires circuit modification.
- Requires L-5 Bracket.
- Readjust bias and record currents.
- Use original head mounting plate.
- Erase head is Full Track type.
- Two-track stereo play head.
- Mount head and QK inside Original Head Cup.
- AG-300/350 require erase circuit modification with 9127 FT head, Short 4L2 coil, and add shunt .01-mfd. across 4C37.
- To adjust new erase head voltage or current to spec. value, raise or lower size of the erase coupling capacitor.
- New spacer blocks required when replacing LIPPS heads. Order one QK-89 for record head, one QK-89 for erase head, and one QK-90 for play head.
- Add 1 MHY. choke in series with each coil of erase head, and adjust for spec. voltage or current. (Form 7307 instructions.)
- Machines with 6V6 Bias Oscillator use for Record Head the same as the Play Head. Listing is correct as is for 6SN7 Oscillator.
- Erase head for Older Models with Side-Mount Erase Head should be #2201 plus QK-18.
- For AG-300/350 with single-screw-mount erase head, order also one set of SP-76 Spacer Plates for insertion between QK-76 and cup. See Form 7349 instructions.
- AG-600, AG-600B, AG-500, AL-500, with 9227 erase head, add 1500-pf. 5% across C28 erase coupling capacitor located on S4. See Form 7355 instructions.
- AG-600, AG-600B, AG-500, and AL-500, with 8640 erase head, replace C28 (located on S4) with 910-pf. 5% cap., per Form 7355 instructions.
- Head shown in "RP" column may be used for playback in fourth head position.
- Connect .001-mfd. capacitors across record head coils, if necessary, to increase adjustment range of bias potentiometers.
- Serial No.'s below 96-280.
- Serial No.'s above 96-280.
- Special 4-head nests require QK-87 mounts in place of QK-76. Fourth head model shown in RP column.
- Full-track erase head shown. For selective 4-channel erase, use instead two 8640 stereo 4-track erase heads with two QK-87 mounts.
- AMPEX 3200 duplicator for cassette tape requires new tape guides. W-size cassette slave heads need shims to fit QK-76 mount.
- AMPEX 952, 954, 960 4-track stereo recorder with dual-coil bias oscillator secondary. Requires replacement of original bias oscillator transformer with new Nortronics T60-F when replacing erase head, because original transformer has poor voltage regulation. (See Dwg. No. 725B001 (with QK-86) for instructions.)
- Use bracket from original head to mount new head.
- A77, mount new head on head plate, drilling new mounting hole, if necessary, for correct position. Cut slot in bottom of head shield-can, from mounting hole to rear edge, to permit it to be slid over head.
- 36 series, mount new head inside shield-can, from top of can. Bend cable sharply, near pins, to clear inside of can.
- NORTRONICS replacement heads on SCULLY recorders are equal to or better than original heads. QK-91 head mount needed only for original NORTRONICS replacement. Quick-release set-screw permits easy replacements with No-mount heads.
- AMPEX 602 series needs QK-86 on later models with oval brass headplate held with slot-head screws. Earlier machines may have threaded studs on brass head plate held by lock-nuts; these require QK-92 instead of QK-86.

Recorder Care Division



NORTRONICS®

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