

NORTRONICS®

**BROADCAST
PROFESSIONAL 
 **TAPE HEAD
REPLACEMENT
 **GUIDE******

SIXTH EDITION

DIRECT TECHNICAL AND SALES ASSISTANCE

Nortronics technical and sales personnel are available to assist in selecting the correct replacement head for your model. They guarantee the head selected will be compatible with your recorder.

GUARANTEED SATISFACTION

If you are not completely satisfied just return the head within 30 days for a full refund. Also, all parts are delivered with a full warranty on material and workmanship.

IMMEDIATE AVAILABILITY

Nortronics maintains an extensive inventory of replacement heads which allows us to ship direct within one day.

**FOR MORE INFORMATION OR TO PLACE YOUR ORDER, CALL
TOLL FREE 1-800-328-5640
IN MINNESOTA, CALL 1-800-742-0687**

NORTRONICS QUALITY POLICY

Nortronics will develop and deliver defect free products on time at the lowest possible cost. Quality will be the primary consideration in all decisions related to design, cost, and delivery.



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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 or C 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 C.

Manufacturer's Listed In This Book

Ampex
Ampro (Instatape)
ATC (Gates) (Harris)
Audi-Cord
Beucart (UMC Electronics)
Broadcast Electronics
(Spotmaster)
Concertone (Berlant)
Crown International
Cuemaster (Consolidated
Electronics) (Cepak)
Dictaphone (see also Metrotech)
Electro Sound
Fidelipac (Dynamax)
Harris (Gates) (ATC)
IGM
Instatape (see AMPRO)
International Tapetronics/3M (ITC)
ITC (International Tapetronics)
Lyrec
Macarta (see SMC)
Magnecord (Telex)
MCI
Metrotech (Scully)
3M (see Wollensak, ITC)
Muzak
Newcomb
Otari
Pacific Recorders
Pioneer
Presto
Ramko Research
RCA
Revox
Schafer (Cetec)
Scully (Scully/Metrotech)
(Dictaphone)
L.J. Scully
SMC (Macarta) (Sono-Mag)
Sparta (Cetec)
Spotmaster
(see Broadcast Electronics)
Stancil-Hoffman
Tape-Athon
Tapecaster
Teac
Technics (Panasonic)
Television Technology (see Ampro)
Telex (Magnecord) (Viking)
Vega
Viking (Telex)
Wollensak (3M)

Reel to Reel

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Replacement by
Manufacturer &
Model Number

Broadcast Cartridge

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Replacement by
Manufacturer &
Model Number

Cross Reference

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Manufacturer Head Part
Number to Nortronics Part
Number

Accessories

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Reference Notes and
Abbreviations

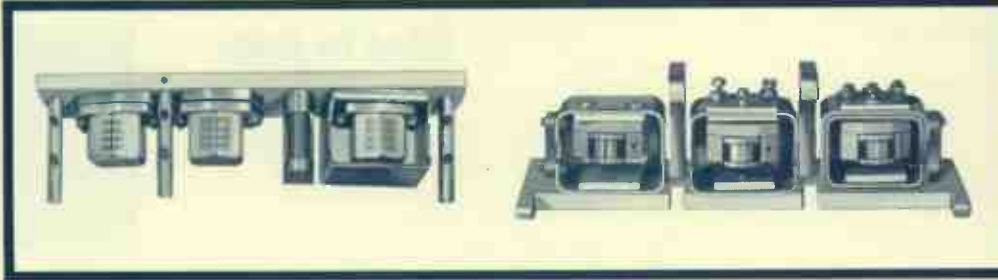
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Nortronics Tape Head Replacements for: Reel-to-Reel Recorders/Players

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 QK mount when needed. Subsequent head replacements will usually not require another QK.
3. Consult REFERENCE NOTES on inside back cover as indicated by number in second column.



Model No.	Track Style & Ref. Notes	RP or RPE	4th Head or Combo	Record Head & QK	Playback Head & QK	Erase Head & QK
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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	9102+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	
AG305	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	9102+76	
AG355	2TS	P 4TS	8600+76	9202+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+79
AG440	4CH 1/2" 44			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" 44			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+79
AG440C	4CH 1/2" 44			9465	9474	9472
AG445	FT	P 2T	9209+76	9109+76	9109+76	
AG445	2TS	P 4TS	8609+76	9209+76	9209+76	
AG445	4CH 1/4"				5605+76	
AG445B	FT	P 2T	9209+76	9109+76	9109+76	
AG445B	2TS	P 4TS	8609+76	9209+76	9209+76	
AG445B	4CH 1/4"				5605+76	
AG445C	FT	P 2T	9209+76	9109+76	9109+76	
AG445C	2TS	P 4TS	8609+76	9209+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	9203+87	9207+87	9227+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
ATR700	2TS			9203+85	9213+85	9226+86
ATR700	4TS			8604+85	8608+85	8701+86
ATR700	FT			9103+85	9119+85	9126+86
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	9203+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

Model No.	Track Style & Ref. Notes	RP or RPE	4th Head or Combo	Record Head & QK	Playback Head & QK	Erase Head & QK
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AMPEX (Continued)

300 4	4CH 1/2" 17			9465	9464	9472
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+76	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	P			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	9102+106	4400+304
AV102	2M 4			8401+106	2600+106	3600+304
AV102	2S 4			2003+106	2000+106	2200+304
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			9105+106	9111+106	4400+304
BA-1	2M			8401+106	2600+106	3600+304
BA-1	2S			2003+106	2000+106	2200+304
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+304
BAX	4S			1203+106	1200+106	1400+304
BAX	FT			9105+106	9111+106	4400+304
BRX	2M			8401+106	2600+106	3600+304
BRX	2S			2003+106	2000+106	2200+304
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+304
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+304
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+304

Tape Head Replacements for: Reel-to-Reel

Model No.	Track Style & Ref. Notes	RP or RPE	4th Head or Combo	Record Head & QK	Playback Head & QK	Erase Head & QK
CONCERTONE (BERLANT) (Continued)						
8RX-1	4S			1203+106	1200+106	1400+304
C-540-IGM	2M				2601+84	NDNE
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
MARK VII	4S			1203+106	1200+106	1400+304
MARK VII-C	2S			2003+106	2000+106	NSI
TWR	FT - 4			9105+106	9111+106	4400+304
TWR	2M - 4			8401+106	2600+106	3600+304
TWR	2S - 4			2003+106	2000+106	2200+304
TWR	4S - 4			1203+106	1200+106	1400+304
TWR-1	FT - 4			9105+106	9111+106	4400+304
TWR-1	2M - 4			8401+106	2600+106	3600+304
TWR-1	2S - 4			2003+106	2000+106	2200+304
TWR-1	4S - 4			1203+106	1200+106	1400+304
20/20 SERIES	FT - 4			9105+106	4000+106	4400+304
20/20 SERIES	2M			8401+106	2600+106	3600+304
20/20 SERIES	2S - 4			2003+106	2000+106	2200+304
20/20 SERIES	4S - 4			1203+106	1200+106	1400+304
30/30 SERIES	FT - 4			9105+106	9111+106	4400+304
30/30 SERIES	2M - 4			8401+106	2600+106	3600+304
30/30 SERIES	2S - 4			2003+106	2000+106	2200+304
30/30 SERIES	4S - 4			1203+106	1200+106	1400+304
33	2S			2003+106	2000+106	NONE
36-ST	FT - 4			9105+106	9111+106	4400+304
36-ST	2M - 4			8401+106	2600+106	3600+304
36-ST	2S - 4			2003+106	2000+106	2200+304
36-ST	4S - 4			1203+106	1200+106	1400+304
60 SERIES	FT - 4			9105+106	9111+106	4400+304
60 SERIES	2M - 4			8401+106	2600+106	3600+304
60 SERIES	2S - 4			2003+106	2000+106	2200+304
60 SERIES	4S - 4			1203+106	1200+106	1400+304
60 SERIES	4C - 4, 11			5601+106	5603+106	8101+106
63-K	2S				2000+106	
91	2M			8401+84	2601+84	8506+84
92	2M			8401+84	2601+84	8506+84
93-.2-.2A	2S			2010+84	2000+84	8306+66
93-.2-.2A	4S - Trail Head				1200+84	
122	2M - 8	RP		3101+21		3601+18
216S	4S	RP		5232		NONE
240	2M	RP		5130		NONE
303	4S			8602+66	1202+66	1408+66
303D	4S			1203	1202	1408
400	NONE					NONE
406D	4S	RP		5230		NONE
500	4S - 3			1210+84	1200+84	8708+84
505R	4S - 3			8614+84	8608+84	8708+66
605 SERIES	FT - 5			9103+66	9111+66	4402+19
605 SERIES	2M - 5			8401+66	2600+66	3602+19
605 SERIES	2S - 5			2010+66	2000+66	2202+19
605 SERIES	4S - 5			1210+66	1200+66	8640+66
700	2M - 2	RP		3002		NONE
727	4S - 8			1203+38	1207+38	1408+38
770	4S - 2, 8			1203	1207	1408+18
790	4S				1202+66	NSI
790	4S - 2			1203	1207	NONE
800	4S			1203+66	1201+66	1401+19
801	4S			1203+66	1201+66	1401+19
802	4S			1203+66	1201+66	1401+19
804	4S			1203+66	1201+66	1401+19
1033	FT - 15			9105+106	9111+106	4400+304
1033	2M - 4			2603+106	2600+106	3600+304
1033	2S - 4			2003+106	2000+106	2200+304
1033	4S			1203+106	1200+106	1400+304

CROWN INTERNATIONAL

A-51	2M - L/R				8406+66	NONE
A-54	4S - L/R				8601+66	NONE
A-314	2M - L/R				8406+66	NONE
A-324	4S - L/R				8601+66	NONE
A-1314	2M - L/R				8406+66	NONE
8/C801	FT - 18			9103+66	9111+66	8104+66
8/C802	2M - 18			8404+66	8403+66	8304+66
8/C822	2S - 18			9205+66	9213+66	8304+66
8/C824	4S - 18			8603+66	8608+66	1401+19
8X801	FT			9103+66	9111+66	8104+66
8X802	2M			8404+66	8406+66	3601+18
8X822	2S - 19			9205+66	9213+66	9222+66
8X824	4S			8603+66	8601+66	1401+18
8X1024	4S			8603+66	8601+66	1401+18
8X1401	FT			9103+66	9111+66	8104+66
8X1402	2M			8404+66	8406+66	3601+18
8X1422	2S - 19			9205+66	9213+66	9222+66
CBD	2M - 19	RP		8403+66		
CBF	FT	RP		9111+66		
C1744	4T, 4C			5604+66	5603+66	1401+18
C1844	4C			5604+66	5603+66	1401+18
CID	2M - 9	RP		8403+66	8301+66	8104+66
CIDS	2S	RP		8209+66	8301+66	8301+66
CIF	FT	RP		9111+66	8104+66	8301+66
CPDS	2S	RP		8209+66	8301+66	8301+66
CPF	FT	RP		9111+66		8104+66
CR	2S	RP		8209+66		2201+18
CX711	FT			9103+66	9111+66	8104+66
CX712	2M			8404+66	8406+66	3601+18
CX722	2S - 19			9205+66	9213+66	9222+66
CX722-P4	2S, P4S	RE		6101+66	8208+66	1401+18
CX724	4S			8603+66	8601+66	1401+18
CX724-P2	4S, P2S	RE		6004+66	8208+66	8601+66
CX744	4T, 4C			5604+66	5603+66	1401+18

Model No.	Track Style & Ref. Notes	RP or RPE	4th Head or Combo	Record Head & QK	Playback Head & QK	Erase Head & QK
CROWN INTERNATIONAL (Continued)						
CX811	FT				9103+66	9111+66
CX812	2M				8404+66	8406+66
CX822	2S - 19				9205+66	9213+66
CX822-P4	2S, P4S	RE		6101+66	8601+66	8208+66
CX824	4S				8603+66	8601+66
CX824-P2	4S, P2S	RE		6004+66	8208+66	8601+66
CX844	4C				5604+66	5603+66
SL724	4S				6004+66	8600+66
SL802	2M				8603+66	8600+66
SL822	2S				9205+66	9213+66
SL824	4S				8603+66	8600+66
SP314	2M - L/R					8406+66
SP324	4S - L/R					NONE
SP702	2M					NONE
SP722	2S					NONE
SP724	4S					8601+66
SP801	FT					9111+66
SP802	2M					8406+66
SP822	2S					9213+66
SP824	4S					8601+66
SP844	4CH					5603+66
SS702	2M	RE		6126+66	8406+66	8208+66
SS722	2S	RE		6101+66	8208+66	8600+66
SS724	4S	RE		6004+66	8600+66	9111+66
SS801	FT				9103+66	8104+66
SS802	2M - 19				8404+66	8406+66
SS822	2S - 19				9205+66	9213+66
SS824	4S				8603+66	8601+66
SS1400	2S - 19				8204+66	8208+66
SX701	FT				9103+66	9111+66
SX702	2M				8404+66	8406+66
SX711	FT				9111+66	9111+66
SX712	2M				8404+66	8406+66
SX722	2S - 19				9205+66	9213+66
SX722-P4	2S, P4S	RE		6101+66	8601+66	8208+66
SX724	4S				8603+66	8601+66
SX724-P42	4S, P2S	RE		6004+66	8208+66	8601+66
SX811	FT				9103+66	9111+66
SX812	2M				8404+66	8406+66
SX822-P4	2S, P4S	RE		6101+66	8601+66	8208+66
SX824	4S				8603+66	8601+66
SX824-P2	2S, P2S	RE		6004+66	8208+66	8601+66
701-GC8	FT	RP			9111+66	8104+66
702-GCP	2M	RP			8403+66	3601+18
712-GCSX	2S - 19	RP			8209+66	9222+66
714C	4S	RP			6004+66	8601+66
752	2S	RP			8209+66	8304+38
800PK	FT				9103+66	
844	4CH				5604+66	5602+66
844ST	4S	P				8601+66
1001	FT				9103+66	9111+66
1002	2M				8404+66	8403+66
1022	2S - 19				9205+66	9213+66
1024	4S				8603+66	8608+66
1401	FT				9103+66	9111+66
1402	2M				8404+66	8403+66
1422	2S - 19				9205+66	9213+66
1424	4S				8603+66	8601+66

ELECTRO SOUND

ES-505	FT 1/4"				9104+73	9102+73	9127+79
ES-505	2TM 1/4"				9204+73	9202+73	9227+79
ES-505	2TS 1/4"				9204+73	9202+73	9227+79
ES-505	4TS 1/4"				8614+73	8600+73	8640+79
ES-505	4CH 1/4"				5607+73	5603+73	8640+79 (2)
ES-505	4CH 1/2"						
ES-505	8CH 1"					9102+73	
ES-555	FT 1/4"					9202+73	
ES-555	2TM 1/4"	P				9202+73	
ES-555	2TS 1/4"	P					

Tape Head Replacements for: Reel-to-Reel

Model No.	Track Style & Ref. Notes	RP or RPE	4th Head or Combo	Record Head & QK	Playback Head & QK	Erase Head & QK
INTERNATIONAL TAPETRONICS (ITC) (Continued)						
855-7545	750 Series 4TS			8603	8608	8640
856-7514	FT				9119	
856-7515	FT				9119	
856-7524	2TM				8403	
856-7525	2TM				8403	
856-7532	2TS				8202	
856-7534	2TS				8202	
856-7535	2TS				8202	
856-7544	4TS				8608	
856-7545	4TS				8608	
770 Series	FT			9105	9119	9125
770 Series	2TS			8204D	8209	9226
770 Series	4TS			8603	8608	8640
750 Series	2TS			9205	9207	9226
855 Series	2TS			9205	9207	9226
856 Series	2TS			9205	9207	9226

LYREC

TR532-8	8CH 1"			9885	9889	9891
TR532-16	16CH 2"			9501	9502	9997
TR532-24	24CH 2"			9988	9989	9987

MAGNACORD (TELEX)

8358	NONE					
DMT Series	2S			9204	8202	
DST Series	2S			9204	8202	
F358	NONE					
M30 Series	NONE					
M33	NONE					
M80, M90, P60, P75	FT			9103+35	9102+35	9127+35
M80, M90, P60, P75	2M			8401+35	8403+35	9227+35
M80, M90, P60, P75	2S			8201+35	8200+35	9227+35
M80, M90, P60, P75	4S			8604+35	8600+35	8640+35
PT-6	NONE					
PT-63	NONE					
S35B	NONE					
S36B	NONE					
230L/1-R	2TM		3202	3203	3201	3601L
230L/4-R				5601	5603	1401L(2)
728	2S - 40	4S	8600+88	9204+88	9202+88	9228+88
748	4S - 40	2S	9202+88	8604+88	8600+88	
815, 16, 17	2M			8403+75	8403+75	
815, 16, 17	4S			8608+75	8608+75	
1020	4S	2S	8202	8602	8607	8702
1021	FT	2M	8406	9112	9111	8102
1022	2S	4S	8607	8203	8202	8302
1024	4S	2S	8202	8602	8607	8702
1028	2S - 40	4S	8600+88	9204+88	9202+88	9228+88
1048	4S - 40		9202+88	8604+88	8600+88	
1421F	FT	FT	9111	9112	8406	8102
1421H	2M			8404	8406	8302
1422H	2S	4S	8607	8203	8202	8302
1422Q	4S	2S	8202	8602	8607	8702
3000	FT	2M	8406	9112	9111	8101
3000	2TM			8404	8406	8301
3000	2TS	4S	8607	8203	8202	8301
3000	4TS	2S	8202	8602	8607	8702

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
JH110	FT 1/4"			9104	9109	9125
JH110	2TS 1/4"			9204	9209	9222
JH114-8	8CH 1"			9885	9886	
JH114-16	16CH 2"			9993	9994	
JH114-24	24CH 2"			9983	9984	

METROTECH

400L	8T 1/4"			5833	5832	
514A	2TM	P			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	

Model No.	Track Style & Ref. Notes	RP or RPE	4th Head or Combo	Record Head & QK	Playback Head & QK	Erase Head & QK
METROTECH (Continued)						
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)

MUZAK

Muzak	2TM - 4S					8402+66
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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

OTARI

ARS-1000	2TS					9213+93
Mark II-2	2TS					9213+93
Mark II-4	4CH 1/2"					9227+93
MTR-60	2TS					9213+93
MX-5050-FL	FTM	2T P	9213+93	9203+93	9119+93	NONE
MX-5050-2SH	2TS	4TS P	8608+93	9204+93	9207+93	NONE
MX-5050-QXHD	4CH 1/4"	4TS P	8608+93	5606+93	5603+93	NONE
MX-5050B	2TS	4TS P	8608+93	9203+93	9213+93	NONE
MX-5050B	FTM	4TS P	8608+93	9103+93	9119+93	NONE
MX-5050B	4CH 1/4"	2TS P	9213+93	5606+93	5603+93	NONE
MX-7000	2TS	4TS P	8608+93	9203+93	9213+93	9222+95
MX-7000	FTM	4TS P	8608+93	9103+85	9119+85	

PIONEER

RT 701	4TS				8604+93	8608+93	NONE
RT 701	2TS - 43				9203+93	9213+93	9227+94
RT 701	FT - 43				9103+93	9119+93	9125+94
RT 701	4TS	4TS P	8608+93		8604+93	8608+93	NONE
RT 901	4TS				8604+93	8608+93	8640+94
RT 901	2TS - 43				9203+93	9213+93	9222+94
RT 901	FT - 43				9103+93	9119+93	9126+94
RT 909	4TS	4TS P	8608+93		8604+93	8608+93	8640+94
RT 1020	4TS - 43				8604+96	5603+96	8641+95
RT 1020	2TS - 43				9203+96	9227+96	
RT 1050	2TS				9203+96	9213+96	9223+95
RT 1051	4TS - 43				8604+96	5603+96	8641+95
RT 1051	2TS - 43				9203+96	9207+96	9227+95
RT 2022	2TS				9203+93	9207+93	9227+95
RT 2022	FT				9103+93	9111+93	9127+95
RT 2044	4CH				5604+93	5603+93	NONE

PRESTO

CDR	2M					8403+35
PB-17	2M					8403+35
PT-900	FT				9103+35	9106+35
PT-900	2M				8401+35	8402+35
RC-10	FT				9103+35	9106+35
RC-10	2M				8401+35	8402+35
RC-24	FT				9103+35	9106+35
RC-24	2M				8401+35	8402+35
RD175	2M					8400+38
625	2S					8208+35
625	4S					8601+35
800	FT				9103+35	9111+35
800	2M				8401+35	8406+35
800	2S				8201+35	8208+35
800	4S				8604+35	8601+35
825	FT				9103+35	9111+35
825	2M				8401+35	8406+35
825	2S				8201+35	8208+35
825	4S				8604+35	8601+35
850	FT				9103+35	9111+35
850	2M				8401+35	8406+35
850	2S				8201+35	8208+35
850	4S				8604+35	8601+35

RCA

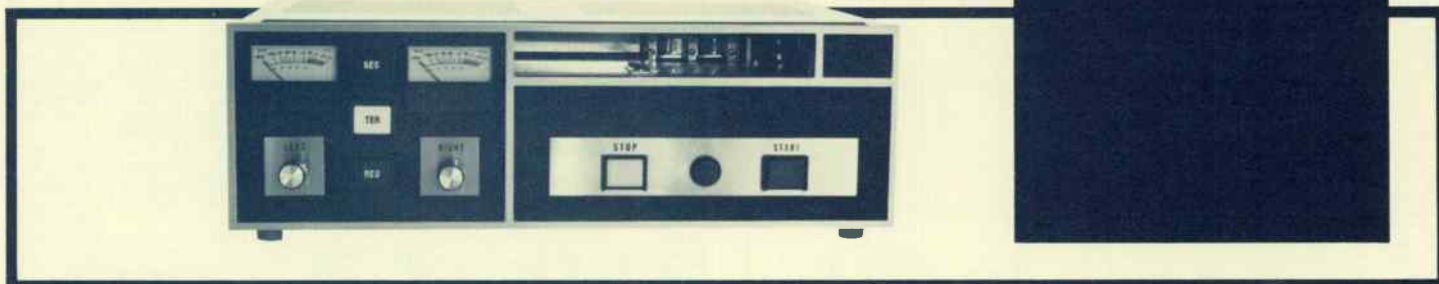
RT-19 Log.	4CH, 4T				6007	8601
RT-21	FT				9107	9108
RT-21	2TS				8206	8205
RT-22	2T R-Cart.				2002	2002
TP-66	16-mm					4951

REVOX

A-67	2TS				9203+97	9207+97	9227+95
A-67	FT				9103+97	9111+97	9127+95
A-67	4TS				8604+97	8607+97	8640+95
A-77	2TS				9203+97	9207+97	NONE
A-77	FT				9103+97	9111+97	NONE
A-77	4TS				8604+		

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

SECTION B



INTRODUCTION

Nortronics heads are standard as original equipment on most broadcast cartridge machines, and the tables in Section B should permit the selection of the correct replacement head for over 90% of the transports in existence. If the machine has a Nortronics head it can be identified by the OEM part number stamped on it, such as "P-B2H7K" or its equivalent RCD number "2001". Cross-reference between OEM and RCD numbers is given with Head Specs in Section F.

REPLACEMENT LISTING

1. The first column of the following machine/head listings gives the recorder model number and indicates if it is a Mono (2-channel heads) or a Stereo (3-channel) machine. Delay machines are always mono, but may use either single-channel or two-channel heads.
2. The second column gives the machine manufacturer's head part number, which probably will not be stamped on the head, but which will most likely appear in the parts list in the machine maintenance manual.
3. The third column gives *head function*. Each machine usually has two heads; one to *record program and cue*, and the other head to *play program and cue*. Mono recorders use the top channel for program and the lower channel for cue, utilizing two-channel heads. Early mono machines incorporated single channel heads, one to *record and play program*, and the other to *record and play cue*; no monitoring during recording was possible as in current "NAB Standard" machines. (See "NAB CONVERSION" below for possible modification to two-channel heads.)
Stereo machines use three-channel heads, with the program on the top two channels and cue on the lower. Play-only machines have only one active head, playback, and often place a dummy head in the record position to support the tape for better guidance.
Delay cartridge recorders generate the typical seven second time delay needed for live telephone talk shows. They use a special combination erase-record head next to the capstan, plus a normal play head located in the left position. The tape sequence is play, erase, record, delay, and again play. Early delay-only machines used single-channel heads, while the more recent machines have two channel heads so they can also be used for conventional playback and record.
4. The fourth column ("Mount Type") shows the mounting style of the original heads. The first cartridge machines used exclusively rear-mount heads with the 1/4-28 threaded mounting stud. Recent models use mostly no-mount heads which are easier to install and more convenient to adjust. Be sure to verify the head mounting style on your machine as it may have been converted to no-mount heads with the aid of a Nortronics QK-114 cartridge-mount kit.
5. The fifth column ("Orig. Head") indicates the Nortronics RCD head number to replace the original equipment heads. In some cases a two-channel head is specified as a replacement instead of the original single-channel head furnished on early recorders; if so, use only one channel of the head. Note that the part number for a rear-mount head is derived by adding 50 to the equivalent no-mount head, i.e. 2001 becomes the 2051 rear-mount head.
6. The sixth column ("Duracore") indicates the equivalent long-wear Duracore head, when available, and is usually the regular head number with the letter D added. Some machines are supplied with Duracore heads as original equipment.
7. The seventh column ("No-Mount Conversion") shows the heads and Quik-Kit to convert from rear-mount heads to no-mount, when practical and feasible. On certain Harris and RCA machines, as indicated in the application notes, conversion is not recommended.

NAB CONVERSION

The very early cartridge machines equipped with single-channel heads can sometimes be converted to "NAB monitor" by replacing the single-channel heads with two-channel types. However, this requires modification of the electronics to separate the record and playback functions, and can be a fairly difficult task. Write to NORTRONICS RCD giving make and model of recorder and we will try to give assistance when possible.

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, which can dent the head face if inserted at an angle. Use of a hold-down spring and side-guide rail is highly recommended.

Penetration of the head into the cartridge should be set at 9/32-in. Excessive penetration will cause faster head wear and possible tape skewing.

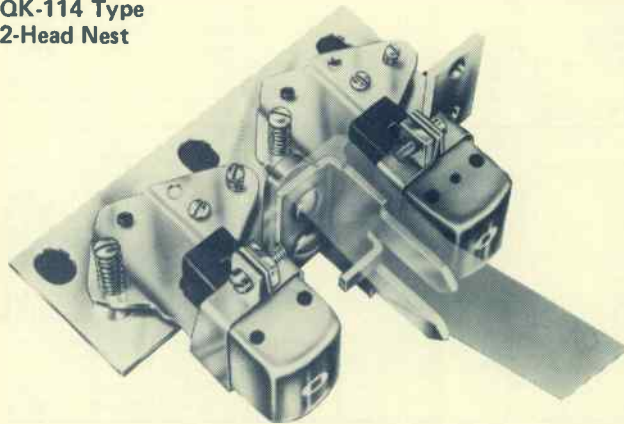
QUIK-KITS

QK-114 installs two no-mount B-size heads on a cartridge transport. It includes micrometer adjustments for head position, a cartridge hold-down spring, and side-guide rail to control cartridge insertion.

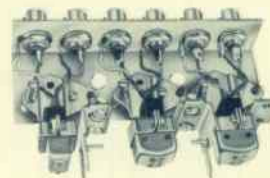
QK-110 installs two no-mount B-size heads, with provision for third head. Third bracket not included—order QK-112 if needed. Includes phono jacks and head plugs, plus cartridge side-guide rail and hold-down spring.

QK-112 is the single B-size head bracket and mounting screws to fit either QK-100 or QK-114.

QK-114 Type
2-Head Nest



QK-110 Type
3-Head Nest



Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT			SPECIAL NOTES
	Mfgr. Head No.	Head Function	Mount Type	Original Head	Dura- core	No-Mount Conversion	

AMPRO (INSTATAPE)

CT-2500, 3500, 4500 5500 Series Mono	9086-1 9103-1	Record Program & Cue Play Program & Cue	No Mount	2010 2001	2010D 2001D		Play-only machines have no record head. Use 7605 for dummy record head.
CT-2500, 3500, 4500, 5500 Series Stereo	9085-1 9102-1	Record Program & Cue Play Program & Cue	No Mount	5710 5701	- 5701D		

ATC (GATES) (Also see HARRIS)

Criterion CP11, CP12, CP13 Mono	20-1014 20-1011	Record Program & Cue Play Program & Cue	Rear Mount	2053 2057	2053D 2057D	*	Play-only machines have no record head. Use 7605 for dummy record head.
Criterion CP11, CP12, CP13 Stereo	20-1016 20-1015	Record Program & Cue Play Program & Cue	Rear Mount	5753 5757	5753D -	*	
P150, P190, PB150, PB190, PC150, PC190 Mono	20-1001 20-1001	Record/Play Program Record/Play Cue	Rear Mount	2051 2050		2001 } 2000 } ¹¹⁴	*Conversion to No- Mount heads not recommended.

AUDI-CORD

100, 101 Mono		Dummy Head* Play	No Mount	7605 2001	7605D 2001D		*Play-only machines substitute dummy head for record head.
105, 106 Stereo		Dummy Head* Play	No Mount	7605 5701	7605D 5701D		
110, 111 Mono		Record Play	No Mount	2003 2001	2003D 2001D		
115, 116 Stereo		Record Play	No Mount	5703 5701	5703D 5701D		
120, 121 Mono		Record Play	No Mount	2003 2001	2003D 2001D		
125, 126 Stereo		Record Play	No Mount	5703 5701	5703D 5701D		
130, 132, 134, 136 Network Delay		Play	No Mount	2000			
131, 133, 135, 137 Delay	P-A2H44R	Erase/Record Play	No Mount	6101 2001	2001D		
140, 141 Mono		Play	No Mount	2001	2001D		
145, 146 Stereo		Play	No Mount	5701	5701D		
127 4-Chan.		Record Play	No Mount	5601 5603			

BEAUCART (UMC ELECTRONICS)

11-X1X-XXX Mono	BH-1001 BH-3001	Dummy Head* Play	No Mount	7605 2001	7605D 2001D		*Play-only machines substitute dummy head for record head.
11-X2X-XXX Stereo	BH-1001 BH-5001	Dummy Head* Play	No Mount	7605 5701	7605D 5701D		
12-X1X-XXX Mono	BH-2001 BH-3001	Record Play	No Mount	2003 2001	2003D 2001D		
12-X2X-XXX Stereo	BH-4001 BH-5001	Record Play	No Mount	5703 5701	5703D 5701D		
13-X1X-XXX Mono	BH-1001 BH-3001	Dummy Head* Play	No Mount	7605 2001	7605D 2001D		
13-X2X-XXX Stereo	BH-1001 BH-5001	Dummy Head* Play	No Mount	7605 5701	7605D 5701D		
14-X1X-XXX Mono	BH-2001 BH-3001	Record Play	No Mount	2003 2001	2003D 2001D		
14-X2X-XXX Stereo	BH-4001 BH-5001	Record Play	No Mount	5703 5701	5703D 5701D		
21-X1X-XXX Mono	BH-1001 BH-3001	Dummy Head* Play	No Mount	7605 2001	7605D 2001D		



Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT			SPECIAL NOTES
	Mfgr. Head No.	Head Function	Mount Type	Original Head	Dura-core	No-Mount Conversion	

BEAUCART (UMC ELECTRONICS) Continued

21-X2X-XXX	Stereo	BH-1001 BH-5001	Dummy Head* Play	No Mount	7605 5701	7605D 5701D	*Play-only machines substitute dummy head for record head.
22-X1X-XXX	Mono	BH-2001 BH-3001	Record Play	No Mount	2003 2001	2003D 2001D	
22-X1X-011	Mono Delay	BH-2001 P-A2H44R BH-3001	Record Erase/Record Play	No Mount	2003 6101 2001	2003D 6101 2001D	
22-X1X-021	Mono Delay	BH-2001 B1EF4J BH-3001	Record Erase Play	No Mount	2003 8104 2001	2003D 2001D	
22-X2X-XXX	Stereo	BH-4001 BH-5001	Record Play	No Mount	5703 5701	5703D 5701D	
22-X5X-XXX	Stereo	BH-4005 BH-5001	Record Play	No Mount	— 5701	5701D	
41-X1X-XXX	Mono	BH-3001	Play	No Mount	2001	2001D	
42-X1X-XXX	Mono	BH-2001 BH-3001	Record Play	No Mount	2003 2001	2003D 2001D	

BROADCAST ELECTRONICS (SPOTMASTER)

303, 305, 400 405, 500, 505 605, 610, 1070, three/70, 2000	Mono	DM2RB DM1B ¹	Record-Program & Cue Play-Program & Cue	Rear Mount	2053 2051 ¹	2053D 2051D ¹	2003 2001 ¹¹⁴	NOTES: 1. Play units take play heads only. 2. Special narrow "C" size (3/8" wide) heads used on some models. Use only where needed. 3. Early units. 4. Later units furnished with Dura-core heads. 5. Additional head part numbers in Section E.
		DM2RC ² DM1C ²	Record-Program & Cue Play-Program & Cue	Rear Mount	7252 ² 7251 ²	— —		
303, 305, 500, 605, 610, 1070RPS, 2000	Stereo	DM3RB D1SA ¹	Record-Program & Cue Play-Program & Cue	Rear Mount	5753 5751 ¹	5753D 5751D		
		DM3RC ²	Record-Program & Cue	Rear Mount	7253 ²	—		
3000, 4000, 5000, 5300, 5500	Mono	M1R ³ M1P ^{1,3}	Record-Program & Cue Play-Program & Cue	No Mount	2003 ³ 2001 ^{1,3}	2003D 2001D		
		LMR ⁴ LMP ^{1,4}	Record-Program & Cue Play-Program & Cue	No Mount	— —	2003D ⁴ 2001D ^{1,4}		
3000, 4000, 5000, 5300, 5500	Stereo	S1R ³ S1P ^{1,3}	Record-Program & Cue Play-Program & Cue	No Mount	5703 ³ 5701 ^{1,3}	5703D 5701D		
		LSR ⁴ LSP ^{1,4}	Record-Program & Cue Play-Program & Cue	No Mount	— —	5703D ⁴ 5701D ^{1,4}		
500, 1070	Delay	DL2C DM1B	Combo Erase-Record Play-Program & Cue	Rear Mount	6151 2051	— 2051D	6101 2001 ¹¹⁴	
3000	Delay	DL2D LMP	Combo Erase-Record Play-Program & Cue	No Mount	6101 —	— 2001D		

FIDELIPAC (DYNAMAX)

CTR 100 Series	Stereo		Play Record	— —	— —	5730D 5715D	
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HARRIS (GATES) (ATC)

M5944	Mono	730-0329 730-0330	R/P — Program R/P — Cue	Rear Mount	2051 2050	— —	2001 2000 ¹¹⁴	NOTES: 1. Play units take play head only. 2. Additional head numbers in Section E. 3. Use #7605 for dummy record head. 4. Conversion to No-Mount heads not recommended.
M6211, M6213	Mono	730-0343 730-0423	Record-Program & Cue Play-Program & Cue ¹	Rear Mount	2052 2052 ¹	2052D 2052D ¹	2002D 2002D ¹¹⁴	
M6212, M6214	Stereo	730-0726 730-0727	Record-Program & Cue Play-Program & Cue ¹	Rear Mount	5753 5751 ¹	5753D 5751D ¹	5703 5701 ¹¹⁴	
Criterion I, II, III Compact	Mono	730-1429 730-1376	Record-Program & Cue Play-Program & Cue ¹	No Mount	2003 2007 ¹	2003D 2007D ¹		
Criterion I, II, III Compact	Stereo	730-0730 730-1371	Record-Program & Cue Play-Program & Cue ¹	No Mount	5703 5707 ¹	5703D 5701D ¹		
Criterion 80	Mono	730-1155 730-1153	Record-Program & Cue Play-Program & Cue ¹	Rear Mount	2053 2057 ¹	2053D 2051D ¹	Note 4.	

Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT			SPECIAL NOTES
	Mfgr. Head No.	Head Function	Mount Type	Original Head	Dura-core	No-Mount Conversion	

HARRIS (GATES) (ATC) Continued

Criterion 80	Stereo	730-1157 730-1156	Record-Program & Cue Play-Program & Cue ¹	Rear Mount	5753 5757 ¹	5753D 5751D ¹	Note 4.
Criterion 90	Mono	730-1429 730-1376	Record-Program & Cue Play-Program & Cue ¹	No Mount	2003 2007 ¹	2003D 2001D ¹	
Criterion 90	Stereo	730-0730 730-1371	Record-Program & Cue Play-Program & Cue ¹	No Mount	5703 5707 ¹	5703D 5701D ¹	
KSP-10	Delay	730-1439 730-1376	Combo Erase/Record Play	No Mount	6103 2007		

IGM

Instacart	12PBM Mono		Play, Program & Cue	Rear Mount ¹	2001D w/R-8		1. Special R-8 rear mount
Instacart	24PBM Mono		Play, Program & Cue	Rear Mount ¹	2001D w/R-8		
Instacart	48PBM Mono		Play, Program & Cue	Rear Mount ¹	2001D w/R-8		
Instacart	12PBS Stereo	1350-XXXX-99	Play, Program & Cue	Rear Mount ¹	5701D w/R-8		
Instacart	24PBS Stereo	1350-XXXX-99	Play, Program & Cue	Rear Mount ¹	5701D w/R-8		
Instacart	48PBS Stereo	1350-XXXX-99	Play, Program & Cue	Rear Mount ¹	5701D w/R-8		

INTERNATIONAL TAPETRONICS CORP/3M (ITC)

Encore Series	Mono	504-0006 504-0001 504-0003	Playback Dummy Head* Record	No Mount	2001 7605 2003	2001D 7605D 2003D	*Play-only machines substitute dummy head for record head.
PD-II Series	Mono	504-0020 504-0021	Playback Record	No Mount	2001 2003	2001D 2003D	**Original heads are Duracore.
RP Series SP Series WP Series	Mono	504-0002 504-0001 504-0003	Playback Dummy Head* Record	No Mount	-** - -	2030D 7605D 2003D	†P/B head is under Patent & is available from ITC.
RP Series SP Series WP Series	Stereo	504-0004 504-0001 504-0005	Playback Dummy Head* Record	No Mount	-** - -	5730D 7605D 5703D	
RPD Series	Delay	504-0011 504-0002	Combo Erase/Record Playback	No Mount	6101 -	- 2001D	
3D Series	Mono	504-0002 504-0001 504-0003	Playback Dummy Head* Record	No Mount	-** - -	2030D 7605D 2003D	
3D Series	Stereo	504-0004 504-0001 504-0005	Playback Dummy Head* Record	No Mount	-** - -	5730D 7605D 5703D	
Series 99	Mono	504-0033 504-0036	Play, Program & Cue Record, Program & Cue	No Mount	- -	† 2015D	
Series 99	Stereo	504-0034 504-0037	Play, Program & Cue Record, Program & Cue	No Mount	- -	† 5715D	
Omega	Mono Stereo		Play Record Play Record	No Mount	- - - -	† 2015D † 5715D	
Delta	Mono Stereo		Play Record Play Record	No Mount	- - - -	2030D 2015D 5730D 5715D	

MACARTA (See SMC)

PACIFIC RECORDERS

Tom Cat	Stereo		Record, Program & Cue Play, Program & Cue	No Mount	5900 5901		
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Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT			SPECIAL NOTES
	Mfgr. Head No.	Head Function	Mount Type	Original Head	Dura-core	No-Mount Conversion	

RAMKO RESEARCH

RPS-1	Stereo		Play Record	No Mount	— —	5730D 5710D	
PS-1	Stereo		Play	No Mount	—	5730D	
Primus	Mono		Play Record	No Mount	—	2030D	
	Stereo		Play Record		—	2010D 5730D 5715D	

RCA

RT-7A ²	Mono	223320 223320	Record/Play Program ⁴ Record/Play Cue	Rear Mount	2051 2051		2001 } 2001 } 114 ²	<ol style="list-style-type: none"> 1. Program head is next to the capstan. 2. NAB monitor conversion of RT-7 series to two-channel heads is described in Nortronics Form #7407. Order a copy from RCD Div. of Nortronics. Different heads are specified from those on this sheet. 3. Quik-Kit conversion to No-Mount heads is not recommended. 4. Play-only machines have no record head. Use #7605 for dummy head, (No-Mount) or 7655 (Rear Mount). 5. "A" Series takes different record head from older "non-A" machines.
RT-7B, RT-7C, RT-7D ²	Mono	226517 223320	Record/Play Program ⁴ Record/Play Cue	Rear Mount	2052 2051		2002 } 2001 } 114 ²	
RT-8, RT-17, RT-27, RT-37	Mono	231290 231290	Record Program & Cue ⁴ Play Program & Cue	Rear Mount	2052 2052	2052D 2052D	Note 3.	
RT-8, RT-17, RT-27, RT-37	Stereo	231289 231289	Record Program & Cue ⁴ Play Program & Cue	Rear Mount	5752 5752		Note 3.	
RT-125, RT-126, RT-127	Mono	Note 5.	Record Program & Cue ⁴ Play Program & Cue	No Mount	2010 2001	2010D 2001D		
RT-125, RT-126, RT-127	Stereo	Note 5.	Record Program & Cue ⁴ Play Program & Cue	No Mount	5710 5701	5701D		
RT-125A, RT-126A, RT-127A	Mono	Note 5.	Record Program & Cue ⁴ Play Program & Cue	No Mount	2003 2001	2003D 2001D		
RT-125A, RT-126A, RT-127A	Stereo	Note 5.	Record Program & Cue ⁴ Play Program & Cue	No Mount	5703 5701	5703D 5701D		

SCHAFFER (CETEC)

Audiofile	Mono	P-B2H4R P-B2H7K	Record-Program & Cue Play-Program & Cue	No Mount	2003 2001	2003D 2001D		Play-only machines have no record head. For dummy head use #7605.
Audiofile	Stereo	P-B3Q4R P-B3Q7K	Record-Program & Cue Play-Program & Cue	No Mount	5703 5701	5703D 5701D		

SMC (MACARTA) (SONO-MAG)

105/108	Mono	P-B2H7K-N P-B2H7K-N	Record/Play Program Record/Play Cue	No Mount	2001 2001	2001D 2001D	Notes 1, 2	NOTES: <ol style="list-style-type: none"> 1. QK-114 needed if machine has rear-mount heads. 2. Play-only machines have no record head. Use #7605 for dummy head.
208	4T Stereo	P-B2Q7K	Play Program	No Mount	8608		Notes 1, 2	
245 & 248 & 250 Carousel, 500, 510, 710, 721, 790 Caro-Stat, Mark II	Mono	P-B2H2K	Play, Program & Cue	No Mount	2000		Notes 1, 2	
245-2 & 248-2 & 252 Carousel, 502, 512, 572, 712, 722, 792, Mark II	Stereo	P-B3Q7K	Play, Program & Cue	No Mount	5701	5701D	Notes 1, 2	
350 Carousel	Mono	P-B2H2K-R P-B2H4R-R	Play, Program & Cue Record, Program & Cue	Rear Mount	2050 2053		2000 } 2003 } QK114	
352 Carousel	Stereo	P-B3Q7K P-B3Q4R	Play, Program & Cue Record, Program & Cue	Rear Mount	5751 5753		5701 } 5703 } QK114	
560, 570, 590, 770, 790	Mono	P-B2H4R P-B2H7K	Record, Program & Cue Play, Program & Cue	No Mount	2003 2001	2003D 2001D	Note 1	
572, 592, 772, 792	Stereo	P-B3Q4R P-B3Q7K	Record, Program & Cue Play, Program & Cue	No Mount	5703 5701	5703D 5701D	Note 1	

Tape Head Replacements for: Broadcast Cartridge Recorders

RECORDER MANUFACTURER AND MODEL	ORIGINAL HEADS			NORTRONICS REPLACEMENT			SPECIAL NOTES
	Mfgr. Head No.	Head Function	Mount Type	Original Head	Dura-core	No-Mount Conversion	

SMC-(MACARTA) (SONO-MAG) Continued

593, 793	Delay Mono	P-A1HC44R P-B1HY2K	Erase/Record Program Play Program	No Mount	6126 2600		
2405/2408 Carousel	Mono	P-B2H7K-N P-B2H7K-N	Play Program Play Cue	No Mount	2001		Notes 1, 2

SPARTA (CETEC)

CD 15-2	Delay	895-0030 895-0020	R/P/E (Combo Head) Play	No Mount	6127 2601		QK-114 ²	NOTES: 1. Playback units take play head only. 2. Early units with rear mount heads need QK. 3. For dummy head use #7605.
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	2051 2051		2001 } 2001 } 114	
MC104, 300B, 300C, 400P, 400RP, 800P, 800RP, 4510, 4515, 4610, 4615, Century	Mono	895-0010 895-0020	Record-Program & Cue Play-Program & Cue	No Mount	2003 2001 ¹	2003D 2001D		
MC204, 200P, 200RP, 600P, 600RP, 4520, 4620, 4625, Century	Stereo	895-0040 895-0042	Record-Program & Cue Play-Program & Cue	No Mount	5703 5701 ¹	5703D 5701D	QK-114 ²	

TAPECASTER

600P, 600RP	Mono	P-G1H7K-R G1H2K-R	Record/Play-Program Record/Play-Cue	Rear Mount	2051 2050		2001 } 2000 } 114	Older vacuum tube models will take the same heads listed.
700P, 700RP	Mono	P-B2H7K-R ³ P-B2H7K-R6	Record & Play ^{1,2} (2 heads, same)	Rear Mount	2051 ¹ 2056	or	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 5754	or	5701+114	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.
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			

TELEX/MAGNECORD

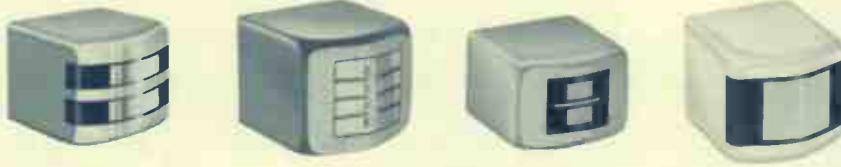
MC-P3	Mono	55748 55742	Play-Program & Cue Dummy Head	No Mount	2001D 7605D	2001D 7605D	
MC-PR3	Mono	55747 55748	Record-Program & Cue Play-Program & Cue	No Mount	2003D 2001D	2003D 2001D	
MC-PS3	Stereo	55746 55742	Play-Program & Cue Dummy Head	No Mount	5701D 7605D	5701D 7605D	
MC-PRS3	Stereo	55745 55746	Record-Program & Cue Play-Program & Cue	No Mount	5703D 5701D	5703D 5701D	

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 C



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
7040111-10	8603+66
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) (HARRIS)	
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	G1HY5L8-B
WW9454-44	6128

BROADCAST ELECTRONICS (See SPOTMASTER)	
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BRUSH (CLEVITE)	
8K-1065	8403+35
8K-1072	9213+35
8K-1072E	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	NONE
L03-013	NONE
L03-014	2001

CODE-A-PHONE (Cont'd.)	
L03-015	4400
L03-018	6131
L03-021	6131
L03-025	6302
L03-033	2200
L03-039	6302
L03-041	6131

COLLINS	
020-8000-010	5703
020-8000-020	5707
020-8000-030	2007
020-8000-040	2003
020-8003-010	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	9105
270-2271-020	P-81HC4K
270-2299-010	4401+19
270-2299-020	5613
270-2299-030	5614

CONCERTONE	
8D-35	1200+106
8H-1	4400+304
8H-3	9105+106
8H-6	2600+106
8T-2	1400+304
8T282	1400+304
8T-3	9105+106
8T-4	1203+106
8T-6	1200+106
8T-22	1400+304
8T 66	2600+106
ND51	1202
ND52	1207
ND53	NONE
THP-102	2601+87
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	1203
04-0057	1202
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
105242	1400+304
105243	1400+304

CONCERTONE (Cont'd.)	
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	8640+66
700543	1210+66
700544	8600+66
700545	8200+66
700547	9226+66
700548	2010+66
700682 RECORD	9105+66
700682 PLAY	9111+66
700683	9128+66

CROWN INTERNATIONAL	
ASO3K	1201+66
ASO4R	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	3601+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
1790	5603+66
1799	1200+66

Cross Reference

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

CROWN INTERNATIONAL (Continued) Head & QK

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	6101+66
2501	5603+66
2501A	5603+66
2530	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
3059	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 (See METROTECH)

120059	5834
120062	5832
120339	8104
121358	6005
121359	1207
122103	6127
124037	ZJL144R
132461	6200
132462	5130
150100	6300
150431	7419

ECHOPLEX (MARKET)

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

ELECTRONIC SECRETARY (See AUTOMATIC ELECTRIC)

9300 242	4408
9300 245	5612
9300 246	5613
9300 369	9111
9300-500	5833
9300-501	C1LC4K-83

FENDER (ECHO-FONIC)

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

FORD INDUSTRIES (See CODE-A-PHONE)

GABLES

C1HY7K-R5-125	7466
P-G2Q7K-R-125	7658

HARRIS (GATES) (ATC)

730-0101	3251
730-0328	3251
730-0329	3251
730-0343	2052
730-0423	2052
730-0726	5753
730-0727	5751
730-0729	2002
730-0730	5703
730-0731	5701
730-1153	2057

HARRIS (GATES) (ATC) Continued

730-1155	2053
730-1156	5757
730-1157	5753
730-1158	2051
730-1162	6151
730-1163	7655
730-1371	5707
730-1375	7605
730-1376	2007
730-1429	2003
730-1439	6103
750-1641	3252
750-1990	3251

INFONICS

13-0003	8260
13-0004	8251
13-0005	9153
13-0008	3252
13-0009	3253
13-0011	8210
13-0013	5416/5410D
13-0014	5205/5205D
13-0015	5201/5201D
13-0018	8610
13-0019	9156
13-0020	8260
13-0021	8654
13-0022	5205/5205D
13-0023	5656
13-0024	5654
13-0025	CH3-83
13-0026	5413/5413D
13-0028	5891
13-0029	5890
13-0030	5411/5411D
13-0032	5205/5205D
13-0033	5413/5413D
13-0034	5201/5201D
13-0035	5411/5411D
13-0038	5606
13-0039	5413/5413D
13-0040	5412/5415D
10008-15	5220/5220D
813100.001	6100

INSTATAPE (See AMPRO)

INTERNATIONAL TAPE- TRONICS (ITC)

504-0001	7605D
504-0002	2001D
504-0003	2003D
504-0004	5701D
504-0005	5703D
504-0011	6101
504-0012	8202
504-0013	9226
504-0014	9125
504-0015	9119
504-0018	9105
504-0020	2001
504-0021	2003
504-0022	2001
504-0027	8608
504-0028	8603
504-0029	8640
504-0030	2001

INTERNATIONAL VIDEO

76100090	6303
76100100	7422
76100111	7721

LOCKHEED

10077Y500	7609
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MAGNASYNC (See MOVIOLA)

MAGNECORD (See TELEX)

METROTECH (SCULLY)

P-A2H48R	6104
P-A2Q48K	6007
P-B2Q7F	8601
PR-81F7K	9119
PR-81F8R	9103
PR-82H7K	9213
SMEF4-N9	4401
WP-82H7K	8209
WP-82Q7F	8601
QP-82Q7K	8608

MICRO MAGNETICS

1410-001	7420
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3M (See WOLLENSAK)

MOVIOLA/MAGNASYNC

36151	7411
36155	7411
36155-1	7411
76241	4955
3077316	7413
2108-910	7423
2108-911	7425
2108-912	7426
028-0270	9111
045-0009	4956
045-0018	4401

PENTAGON

68-01	9210
68-02	9203
68-03	5606
68-04	5604
68-05	5205
68-06	5201
68-07*	5410
68-08*	5411
68-09*	5201
68-12*	9203
68-13*	5604
68-14*	5411
68-15	5411
68-16	9468
68-17	9103
68-20	9106
68-21	5413
68-22	5841
68-2201	5845
68-2202	5846
68-23	5840
68-2301	5847
68-2302	5848
68-28	5221
68-31	9210
68-32	5606
68-33	5201D
68-34	5221D
68-35	5411D
68-36	5413D
68-37	9203
68-38	5604
68-41	5847
68-42	5848
68-43	5845
68-44	5846
68-45	5213

RCA

626-143	5752
98808	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	2052
231773	3252
232937	1401+18
234449	8205
234450	9108
234451	8110
234452	8307
234453	9108
234454	8206
240080	8110
240081	8307
240083	2002
241571	9107

RCA (Continued)

249421	4951
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
3310376-6	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	5201/5201D
87702	5206
87703	5410/5410D
87704	5411/5411D
87705	8610+38
87706	9206/9206D+38
87707	5205/5205D
87708	5220/5220D
87709	5214

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

SCULLY/METROTECH (DICTAPHONE)

180000	9211+91
180001	9209+91
180002	9102+91
180003	9202+91
180004	9110+91
180005	9470
180006	9476
180007	9469
180008	NONE
180009	NONE
180010	NONE
180011	7721
180012	NONE
180013	NONE
180014	NONE
180015	NONE
180016	4404
180017	9998
180018	8641
180019	8618+91
180020	9128+91
180021	9223+91
180022	8606+91
180023	NONE
180024	PR 82G10R
180025	PR 82G4K
180026	6104
180027	8209
180028	6007
180029	6006
180030	1221
180031	NONE
180032	9213
180033	9119
180034	9103
180035	4401
180036	8601
180037	8608

* Obsolete "D" is Duracore

Cross Reference

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

TELEX (MAGNECORD) (VIKING) (Continued)		Head & QK	TELEX (MAGNECORD) (VIKING) (Continued)		TELEX (MAGNECORD) (VIKING) (Continued)		TELEX (MAGNECORD) (VIKING) (Continued)	
55025		NONE	55127	1250	55230	3600+19	55333	3202
55026		2250	55128	1250	55231	1250	55334	2000
55027		2000+66	55129	1200	55232	1252	55335	3201
55028		1200+66	55130	1250	55233	1203	55336	2005
55029		1400+19	55131	1250	55234	1203	55337	2251
55030		NONE	55132	1202	55235	5603	55338	3202
55031		NONE	55133	1202	55236	5602	55339	3202
55032		2200+19	55134	1202	55237	5653	55340	2052
55033		NONE	55135	1201+66	55238	1203	55341	3200
55034		2002	55136	1201	55239	1201+19	55342	3200
55035		1203	55137	7406+21	55240	3601L	55343	3200+21
55036		2005	55138	4450	55241	2201+19	55344	1202+66
55037		NONE	55139	3101	55242	2251	55345	3251
55038		3250	55140	4450	55243	2201L	55346	3200+21
55039		1250	55141	4400L	55244	1451	55347	3200+21
55040		1450	55142	1200	55245	3250	55348	7406+21
55041		2050	55143	3600+19	55246	3203	55349	3202+21
55042		NONE	55144	3600+19	55247	3251	55350	3202+21
55043		2200+19	55145	NONE	55248	9111+66	55351	2052
55044		3201+21	55146	2000	55249	9110	55352	3201
55045		3000+21	55147	2005	55250	3051	55353	1201
55046		1400+19	55148	1200	55251	2001+66	55354	3200
55047		3600+19	55149	1205	55252	2052	55355	1205
55048		3600+19	55150	9111	55253	1400+19	55356	2005
55049		3600+19	55151	4400+19	55254	1200	55357	2003
55050		1401+19	55152	9111+66	55255	2000	55358	3205
55051		1201	55153	1450	55256	1200	55359	3203
55052		3650	55154	1200+66	55257	1205	55360	1200
55053		1202	55155	1200+66	55258	2201+19	55361	1203
55054		1401L	55156	1400+19	55259	3002	55362	2002
55055		2201+19	55157	1400+19	55260	3001	55363	4401L
55056		2201+19	55158	1200	55261	1205	55364	3201
55057		3251	55159	1400L	55262	1401+19	55365	3601L
55058		3000	55160	1200	55263	3201	55366	3203
55059		NONE	55161	1251	55264	3201	55367	9105
55060		2001+66	55162	3255	55265	2201L	55368	2002
55061		NONE	55163	1255	55266	1200+66	55369	2010
55062		3200	55164	1252	55267	1400L	55370	1210
55063		3200	55165	2201L	55268	1201+66	55371	P-G1H8R
55064		3200+21	55166	2051	55269	1200+66	55372	1202
55065		3001+21	55167	5651	55270	1200+66	55373	9110
55066		3250	55168	5653	55271	2000	55374	2051
55067		3250	55169	2002	55272	2005	55375	3051
55068		3250	55170	7406+21	55273	2200L	55376	2053
55069		3201	55171	3601+19	55274	3202	55377	2001+66
55070		3201	55172	2200+19	55275	1400L	55378	2021+66
55071		3201+21	55173	3202	55276	4450	55379	5602
55072		3201+21	55174	3201	55277	3251	55380	5751
55073		3201+21	55175	3250	55278	3202+21	55381	5752
55074		3201+21	55176	3201+21	55279	2200L	55382	2003
55075		3251	55177	3201+21	55280	1401L	55383	1201+66
55076		3201+21	55178	3251	55281	NONE	55384	1201+66
55077		3201	55179	3205+21	55282	1201	55385	1401+19
55078		CH3R	55180	3201	55283	1202	55386	5653
55079		9111	55181	3201	55284	3200	55387	NONE
55080		9161	55182	1201+66	55285	1205	55388	9103
55081		9161	55183	1202	55286	3205+21	55389	NONE
55082		3200	55184	1202+66	55287	1202+66	55390	1252
55083		3250	55185	1200	55288	1221	55391	2052
55084		3200+21	55186	1201+66	55289	1203	55392	2251
55085		3200+21	55187	1251	55290	2005+66	55393	3102
55086		3205	55188	1201+66	55291	5601	55394	6000
55087		3251	55189	1203+66	55292	2200L	55395	PA2H17R-R
55088		3251	55190	4450	55293	3600L	55396	6180
55089		3201	55191	3600+19	55294	1400L	55397	NONE
55090		3251	55192	3600L	55295	4400L	55398	PA2H17K-R
55091		3202+21	55193	3601+19	55296	2003	55399	5602+66
55092		3202+21	55194	1401L	55297	3200	55400	1257
55093		3252	55195	2200L	55298	1451	55401	1251
55094		3202+21	55196	2200L	55299	1400L	55402	1221
55095		3202+21	55197	2200+19	55300	1400+19	55403	3202
55096		3202	55198	2250	55301	7406+21	55404	3252
55097		1200	55199	2201L	55302	3600+19	55405	1251
55098		1202	55200	2201L	55303	1200+66	55406	PA1Q17K-R
55099		1202+66	55201	2201L	55304	2000+66	55407	5604
55100		1202+66	55202	1400L	55305	2200+66	55408	2050
55101		1202+66	55203	1450	55306	2052	55409	3651
55102		1250	55204	1450	55307	3251	55410	A2Q22K-R
55103		2000	55205	1401L	55308	2002	55411	1201
55104		2005	55206	1400+19	55309	3202	55412	3102+21
55105		2050	55207	1401+19	55310	2001	55413	3202+21
55106		2005	55208	1401+19	55311	1257	55414	1207
55107		2051	55209	1401L	55312	1002	55415	3252
55108		2002	55210	2050	55313	2051	55416	3252
55109		2052	55211	2051	55314	1200+66	55417	9111
55110		2003	55212	2051	55315	1200+66	55418	2053
55111		1200	55213	1250	55316	1200+66	55419	3251
55112		1200+66	55214	1200	55317	3202+21	55420	2005
55113		1201	55215	1202+66	55318	3202+21	55421	2001
55114		1201+66	55216	1207	55319	3601+19	55422	7406
55115		1202	55217	3202	55320	7406+21	55423	1201+66
55116		1203	55218	2002	55321	2002	55424	A2Q44K-R
55117		1203+66	55219	3600+19	55322	6103	55425	PA1HC17K-R
55118		1202+66	55220	3600+19	55323	2603	55426	9103
55119		1202+66	55221	3600+19	55324	1201+66	55427	2010
55120		1205	55222	2200+19	55325	1202	55428	1210
55121		1200	55223	2200+19	55326	3200	55429	5800
55122		1250	55224	2200+19	55327	1201+66	55430	6153
55123		1202+66	55225	2201+19	55328	1201+66	55431	3201+21
55124		1202+66	55226	1400+19	55329	1257	55432	3201+21
55125		1201	55227	1400+19	55330	3200	55433	3201+21
55126		1202+66	55228	1401+19	55331	3202	55434	3201+21
			55229	1400+19	55332	3202	55435	3201+21

"L" is Duracore

Cross Reference

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

TELEX (MAGNECORD) (VIKING) (Continued)	Head & QK
55436	1201+66
55437	1201+66
55438	1202+66
55439	1202+66
55440	3201
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	3202+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
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	3201+21
55492	PA2Q47K-R
55493	2002+66
55494	PA2Q44K-R
55495	2000
55496	1251
55497	1251
55498	NONE
55499	NONE
55500	3201+21
55501	3201+21
55502	1221+66
55503	3253
55504	6180
55505	3251
55506	1257
55507	3251
55508	5751
55509	1201+66
55510	1203+66
55511	9111+66
55512	3251
55513	6152
55514	3201+21
55515	1251
55516	1202+66
55517	1251
55518	2002
55519	A1HC44R-R
55520	5653
55521	5652
55522	7468
55523	1200
55524	1201
55525	2000
55526	1252
55527	7406+21
55528	3250
55529	7406
55530	3252+21
55531	6126+66
55532	6153
55533	6151
55534	6002
55535	PA2Q42K-R
55536	PA2Q42K-R
55537	1253

TELEX (MAGNECORD) (VIKING) (Continued)	
55538	1257
55539	1222
55540	3201
55541	2050
55542	2007
55543	1201
55544	1202+66
55545	2002
55546	3255
55547	2001
55548	2052
55549	3201
55550	7406+21
55551	5800
55552	5850
55553	1002+66
55554	8210
55555	3251
55556	1202+66
55557	1202+66
55558	8400
55559	7406+21
55560	5835
55561	5651
55562	2055
55563	3201+21
55564	3201+21
55565	1202
55566	9105
55567	2007
55568	3201
55569	5757
55570	1260
55571	2602
55572	3202
55573	3202+66
55574	5813
55575	5603
55576	2050
55577	PA2H17K-R
55578	2203+19
55579	7406
55580	1255
55581	2051
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	3252
55597	1202
55598	3201
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	3201+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

TELEX (MAGNECORD) (VIKING) (Continued)	
55641	5200
55642	NONE
55643	NONE
55644	NONE
55645	NONE
55646	5602
55647	NONE
55648	5206
55649	5410
55650	PR-82H14N
55651	5230A
55652	5213
55653	5213
55654	5213
55655	3150
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	5223
55673	5211
55674	5833
55675	5802
55676	NONE
55677	6201
55678	5211
55679	5232
55680	7421
55681	5210
55682	5410
55683	5201
55684	NONE
55684	NONE
55685	NONE
55686	NONE
55687	B210
55688	NONE
55689	NONE
55690	NONE
55691	2004
55692	8614
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	8601
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	5230A
55729	5800
55730	5424D
55731	5415
55732	6004
55733	5603
55734	5230A
55735	5230A
55736	NONE
55737	NONE
55738	NONE
55739	NONE
55740	8304
55741	5800
55742	7605D

TELEX (MAGNECORD) (VIKING) (Continued)	
55743	8208
55744	1271D
55745	5703D
55746	5701D
55747	2003D
55748	2001D
55749	NONE
55750	5800
55751	5224D
55752	5201D
55753	5424D
55754	5411D
55755	NONE
55756	6101
55757	9202
55758	
55759	
55760	

TELEX (VIKING) (MAGNECORD)	
A36B106-1	9103+35
A36B107-1	9102+35
A36B117-1	9112
A36C119-1	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
EBB157	1400+19
EFN141	4400L
EFN295	4400L
EFN363	4401L
EFR140	4450
EFR276	4450
EHB143	3600+19
EHB144	3600+19
EHB302	3600+19
EHN11	3600L
EHN293	3600L
EHN365	3601L
EHR23	3650
EMB156	1400+19
EMB157	1400+19
EMB253	1400+19
EMN159	1400L
EMN299	1400L
EMR253	1450
EQB29	1400+19
EQB46	1400+19
EQB262	1401+19
EQB300	1400+19
EQN15	1400L
EQN267	1400L
EQN275	1400L
EQN280	1401L
EQN294	1400L
EQR40	1450
ESB32	2200+19
ESB258	2201+19
ESB305	2200+19
ESN13	2200L
ESN266	2201L
ESN273	2200L
ESN279	2200L
ESN292	2200L
ESR26	2250
ESR298	2251
ESR337	2251
FB152	9111+66
FN18	9111
FN82	2600
FN150	9111
FN367	9105
FR80	9161
HB139	3101+21
HB286	2603+66
HB301	2000+21
HB317	2602+66
HB318	2602+66
HB320	7401
HB332	2602
HB333	2602
HB342	3101+21
HB343	3202+21
HB346	3100+21
HB347	3002+21
HB348	3101+21
HB349	3202+21
HB350	3202+21
HN63	3000
HN69	3001
HN82	2600

"L" and "D" are Duracore heads.

Cross Reference

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

TELEX (VIKING) (MAGNECORD) (Continued)	Head & QK
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
MB154	1000+66
MB155	1000+66
MB344	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

TELEX (VIKING) (MAGNECORD) (Cont'd)	
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
SB27	2000+66
SB251	2001+66
SB290	2005+66
SB304	2000+66
SN103	2000
SN106	2005
SN146	2000
SN147	2005
SN255	2000
SN271	2000
SN272	2005
SN296	2003
SN308	2002
SN310	2001

TELEX (VIKING) (MAGNECORD) (Cont'd)	
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	2004
36C142	1204
36C143	8202
36C153	8202
75-G58	1401+19
75Q2	1200+66
7552	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

WOLLENSAK (3M)	
78-8010-4492	7810
78-8473-8962	7810
26161-700	5221
27161-001	NONE
27161-010	NONE
27161-060	7601
27161-070	7722
27161-080	7722
27161-090	NONE
27161-100	NONE
27161-110	NONE
27161-130	7722
27161-140	7601
27161-180	NONE
27161-190	6125
27161-200	6026
27161-210	6002
27161-220	NONE
27161-221	NONE
27161-250	6005+66
27161-270	6128+66
27161-280	NONE
27161-281	NONE
27161-320	NONE
27161-380	6008
27161-410	5232
27161-450	5133
27161-460	NONE
27161-470	NONE
27161-510	6008
27161-520	1202
27161-540	5207
27161-570	52050
27161-580	52010
27161-590	W2ER6
27161-600	8210
27161-610	5212
27161-620	W1R25G
27161-680	52200
27161-700	52210
27161-860	5151

VIKING (See TELEX)

DURACORE® Heads



DURACORE REPLACEMENT TAPE HEADS FOR PROFESSIONAL RECORDERS

Professional recording equipment users need magnetic heads with greatly-extended wear life to directly reduce operational costs by eliminating electronic adjustments, requiring fewer service calls and cutting recorder downtime. Nortronics now offers a new series of direct replacement magnetic heads constructed with a new wear-resistant material called DURACORE. It provides ten times the operational lifespan of conventional Mu-metal replacements to yield meaningful cost advantages. More than three years of extensive testing have proved DURACORE to be the ideal material for long-life replacement heads. You'll find that DURACORE heads provide excellent wear resistance and they're also affordable. DURACORE replacements are currently available for popular professional reel-to-reel and cartridge recorders/payers manufactured by many well-known companies



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.



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

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

QUIK-KIT MOUNTING BRACKETS



QK-75

QK-74 Universal Mounting Bracket. A unique, general-purpose assembly featuring alignment for head, face and 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 1/16" W x 1 27/32" L. Base size without tabs: 1 1/16" W x 1 7/32" L.

QK-75 Identical to QK-74, but two TG-7 guide posts are included.

QK-77 Identical to QK-74, but for No-Mt. heads in 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 QUIK-KIT MOUNTS AVAILABLE

QK-18	Std. Erase - Side	QK-88	Magnecord 728	QK-111	810-046
QK-19	Std. Erase - Base	QK-89	Scully Adaptor	QK-112	810-042
QK-20	"G" Case - Side	QK-90	Scully Adaptor	QK-113	810-043
QK-21	"G" Case - Base	QK-91	Scully	QK-114	810-055 "B" Cart.
QK-35	"B" Case - Sp. Base	QK-92	Ampex 600	QK-115	810-056
QK-38	"B" Case - Side	QK-93	Otarl	QK-116	Roberts
QK-66	"B" Case - Base	QK-94	Pioneer RT701	QK-117	810-066
QK-73	Electro Sound	QK-95	Pioneer 2022	QK-119	Sony 300 R/P
QK-79	Ampex AG440	QK-96	Sony TC650, TC850	QK-300	Pentron
QK-82	Tandberg	QK-97	Revox	QK-304	Concertone - Erase
QK-84	Concertone	QK-101	Bell & Howell	QK-305	Sony - Erase
QK-85	Teac	QK-102	"B" Dual-Stud Base	QK-306	Sony - Erase - Lge.
QK-86	Ampex 900/600	QK-106	Concertone "B"	QK-701	Pioneer RT701 Oscillator
QK-87	Ampex PR-10	QK-110	810-045		

TAPE GUIDE PLATE



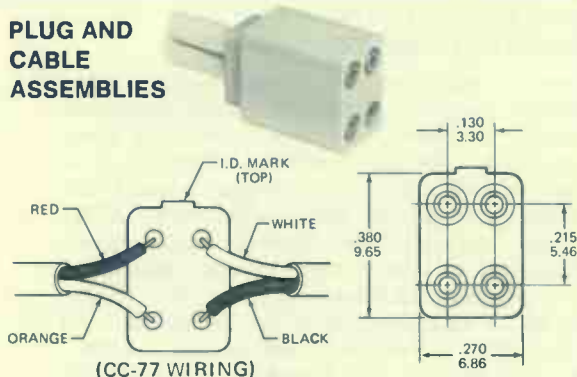
TG-8 Stainless Steel for use with side-mount heads when space prohibits use of a TG-7 guide post or when replacing side-mount heads with a built-in tape guide. Can be used with L-5 or L-6 brackets. Slotted holes provide variable adjustment.
Size: 21/32" H x 25/32" W.

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.

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

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



PIN CLIPS AND CABLE ASSEMBLIES

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



REFERENCE NOTES

1. Epoxy head to bracket.
2. Epoxy head to original plate.
3. Use two playback heads.
4. Ground one side of erase head, connect other side to one erase lead, float other lead.
5. Change erase coupling capacitors C45 and C46 to .02 mfd.
6. Mounting not available.
7. Erase head replacement requires circuit modification.
8. Requires L-5 Bracket.
9. Readjust bias and record currents.
10. Use original head mounting plate.
11. Erase head is Full Track type.
12. Two-track stereo play head.
13. Mount head and QK inside Original Head Cup.
14. AG-300/350 require erase circuit modification with 9127 FT head. Short 4L2 coil, and add shunt .01-mfd. across 4C37.
15. To adjust new erase head voltage or current to spec. value, raise or lower size of the erase coupling capacitor.
16. 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.
17. Add 1-mH 150 mA min. r.f. choke in series with each coil of erase head and adjust for spec. voltage or current at head. (Per Form 7307 instructions.)
18. Machines with 6V6 Bias Oscillator use for Record Head the same as the Play Head. Listing is correct as is for 6SN7 Oscillator.
19. Erase head for Older Models with Side-Mount Erase Head should be #2201 plus QK-18.
20. 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.
21. 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.
22. 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.
23. Head shown in "RP" column may be used for playback in fourth head position.
24. Connect .001-mfd. capacitors across record head coils, if necessary, to increase adjustment range of bias potentiometers.
25. Serial No.'s below 96-280.
26. Serial No.'s above 96-280.
27. Special 4-head nests require QK-87 mounts in place of QK-76. Fourth head model shown in RP column.
30. Full-track erase head shown. For selective 4-channel erase, use instead two 8640 stereo 4-track erase heads with two QK-87 mounts.
31. AMPEX 3200 duplicator for cassette tape requires new tape guides. W-size cassette slave heads need shims to fit QK-76 mount.
32. 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 Drawing No. 725B001 (with QK-86) for instructions.)
33. Use bracket from original head to mount new head.
34. 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.
35. 36 series, mount new head inside shield-can, from top of can. Bend cable sharply, near pins, to clear inside of can.
36. The QK-91 SCULLY mount is re-usable and needs to be installed only once. Check present head mount; if it has a set screw holding head in its bracket, then the QK-91 is not needed. To help remove old head, heat bracket with soldering iron to soften epoxy cement.
37. AMPEX 602 series needs QK-86 on later models with oval brass head plate 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.
38. 100 Series SCULLY machines have dual-head nest with one RP and one erase head. Order complete RPE assembly, or separate RP or Erase heads as needed.
39. Fixed-head SCULLY 270-44 machines with electronics switching can use the 5603 4-channel play heads.
40. QK-88 mount needed only when replacing the one-piece cylindrical heads.
41. Add 2.5-mH r.f. choke in series with each channel of 8640 erase head to limit head voltage to 25-30v. rms at 100 kHz.
42. Precision-mount upper and lower tracks.
43. Conversion of RT-701 to 2-track or Full-track heads requires one QK-701 (T70-T22) booster erase oscillator in addition to heads and mounts. (See Form 7395 Instructions.)
44. Add 0.5-mH 150 mA min. r.f. choke in series with each coil of erase head to give correct impedance match. Verify correct head voltage and current.
45. Order Form #7394 from RCD Division of Nortronics; describes how to mount heads on MUZAK tape players.
46. Requires precision-mounted non-adjustable heads.
47. SHOWCHRON 7402 "Picture" head requires wear shoe, removed from old head and epoxied to new head. Sound-1 and Sound-2 heads are 7427.
48. Verify correct AMEGA replacement head by Model No. and also by D.C. resistance; 9105/60 ohms, 9111/170 ohms, and 9109/2.5 ohms. Electronics with low-impedance playback matching transf. take 9109.

ABBREVIATIONS IN THIS CATALOG

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

NOTES:



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NORTRONICS®