

### REFERENCE CHART FOR CONTROL SETTINGS

USE THIS CHART AS A QUICK GUIDE TO OPERATING YOUR 348 SOLID STATE TUNER/AMPLIFIER.

	BUMBLE		SCRATCH		MULTIPLIER		INPUT		BASS		TREBLE		BALANCE		LOUDNESS		COMP		SPEAKERS	
	OUT	OUT	OUT	OUT	FM OR SUB. CH. F.L.	STEREO*	0	0	0	0	0	0	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	LOUD	MAIN ON	LOUD	MAIN ON
FM MONO OR STEREO	OUT	OUT	OUT	OUT	PHONO	STEREO*	0	0	0	0	0	0	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	LOUD	MAIN ON	LOUD	MAIN ON
PHONO	OUT	OUT	OUT	OUT	PHONO	STEREO*	0	0	0	0	0	0	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	LOUD	MAIN ON	LOUD	MAIN ON
TAPE DECK WITHOUT ELECTRONICS	OUT	OUT	OUT	OUT	TAPE HEAD	STEREO*	0	0	0	0	0	0	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	LOUD	MAIN ON	LOUD	MAIN ON
TAPE RECORDER W/PLAYBACK ELECTRONICS	OUT	OUT	OUT	IN	TAPE HEAD	STEREO*	0	0	0	0	0	0	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	LOUD	MAIN ON	LOUD	MAIN ON
OTHER	OUT	OUT	OUT	OUT	EXTRA	STEREO*	0	0	0	0	0	0	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	LOUD	MAIN ON	LOUD	MAIN ON

\*If a mono/stereo source is used, set SELECTOR switch to "L" input.  
 \*\*If a mono/stereo source is used, set SELECTOR switch to "L" input.  
 Notes: Positions of the Bumble, Scratch, Bass, Treble, Balance, Dynamic Multiplier, Comp, and Loud controls are optional. These controls should be set for your preference.  
 \*If a mono/stereo source is used, set SELECTOR switch to "L" input.



SERVICE BULLETIN FOR  
MODEL 348  
SOLID STATE STEREO TUNER/AMPLIFIER

SPECIFICATIONS

TUNER (FM-MPX)

Usable Sensitivity (IHF)	1.9 microvolts
Cross Modulation Rejection	85 db
Signal to Noise Ratio	60 db below 100% modulation
Total Harmonic Distortion	0.8%
Frequency Deviation (Drift)	0.02%
*Frequency Response (Stereo)	50 to 15,000 cps $\pm$ 1 db
Capture Ratio	4.0 db
Selectivity	45 db
AM Suppression	55 db
Tuning Range	88 to 109 mc
Accuracy of Calibration	0.5%
Separation	35 db or better

\*This is limit of FCC Stereo Broadcast specifications. All H. H. Scott tuners have far wider frequency response.

TAPE OUTPUT

Rated Voltage Output to Tape Recorder	0.5v
Minimum Recommended Load Resistance	47K ohms

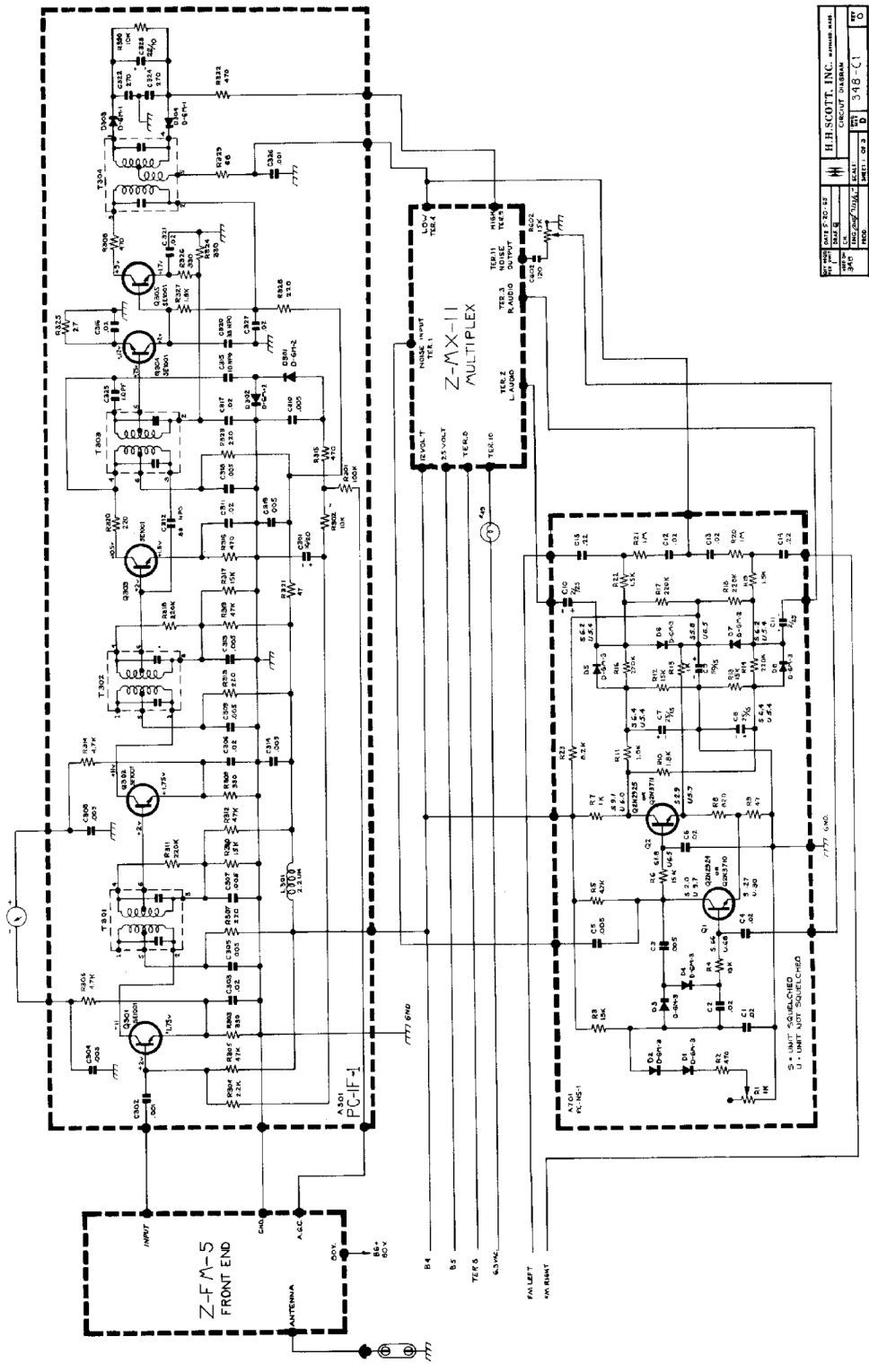
PRE-AMPLIFIER

Input:

Tape Head - Input Impedance	47K ohms
Signal for Rated Output	3 mv
S/N Ratio	52 db
Phono - Input Impedance (All Switch Positions)	47K ohms
Signal for Rated Output (Adjustable by Switch)	3, 5, 9 mv
S/N Ratio	55 db
High Level Inputs - Input Impedance	50K ohms
Signal for Rated Output	.5v
S/N Ratio	75 db
Frequency Response in Flat Position	20-20KC $\pm$ 2.0 db
Treble Controls Measured at 10,000 cps, Boost & Cut	10 db $\pm$ 2 db
Bass Controls Measured at 30 cps, Boost & Cut	12 db $\pm$ 2 db
Scratch Filter	-6 db @ 10KC
Loudness Compensation (Maximum)	+9 db @ 50 cps
Loudness Compensation	+2 db @ 10K cps

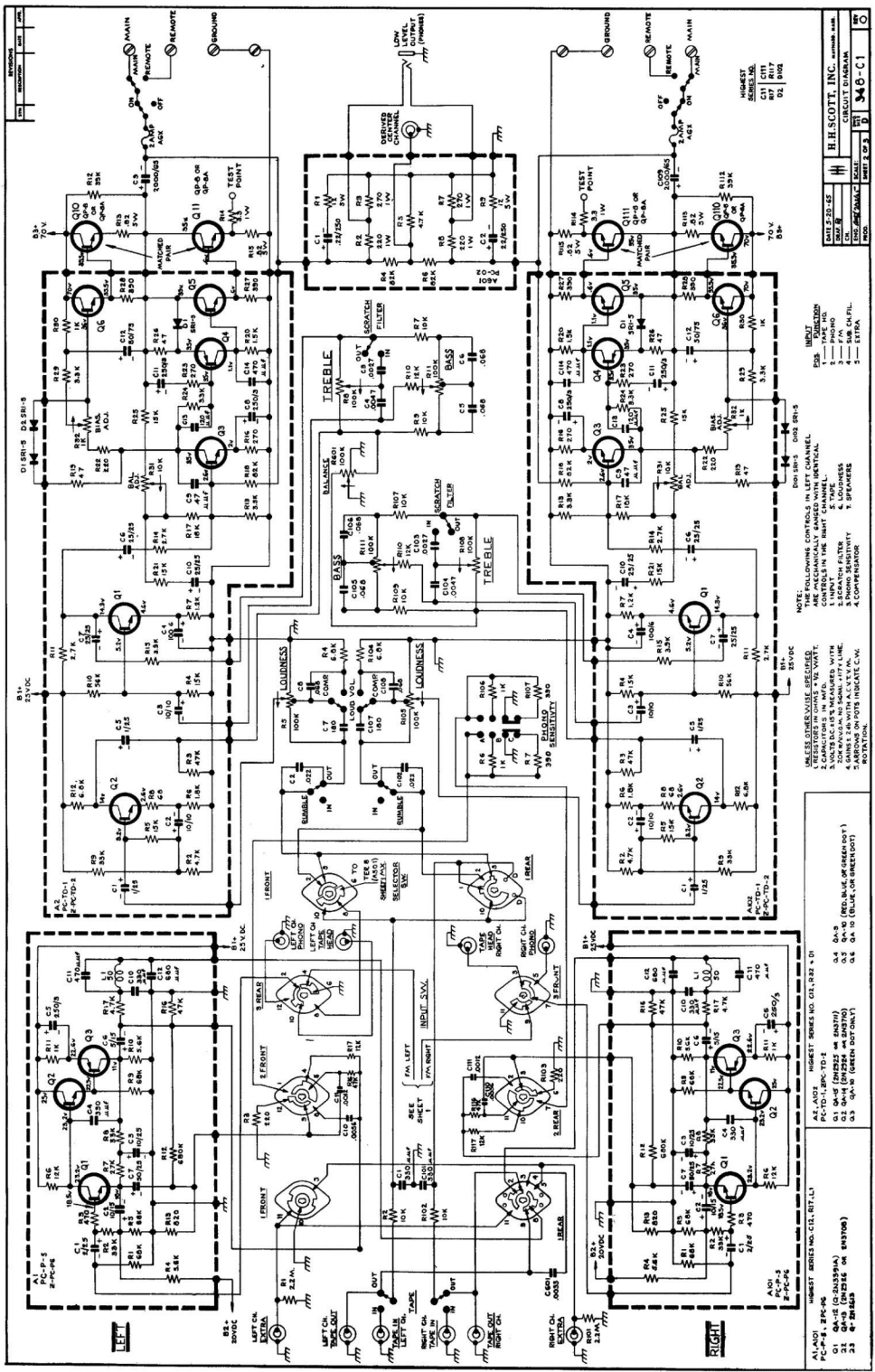
AMPLIFIERS

Power Ratio (Watts Per Ch.) @ 8% HD	
@ 4 ohms	60/60
@ 8 ohms	50/50
Continuous Output (Watts) Single Channel @ 8 ohms, 0.8% HD	35
Continuous Output (Watts) Both Channels @ 8 ohms, 0.8% HD	30/30
Frequency Response	15-30,000 cycles $\pm$ 2 db
Power bandwidth at Rated Distortion (IHF Method)	20-20,000 cps
Hum and Noise	75 db below rated power
Range of Line Voltage and Frequency	105-120v, 50-60 cps
Power Consumption - 117v at 60 cps (AC Only)	35-135w



REV. 1	DATE 5-20-52	H. H. SCOTT, INC. - PHOENIX, ARIZ.	CIRCUIT DIAGRAM	348-C1	10
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REV. 3	DATE 11-10-52				
REV. 4	DATE 12-10-52				
REV. 5	DATE 1-10-53				
REV. 6	DATE 2-10-53				
REV. 7	DATE 3-10-53				
REV. 8	DATE 4-10-53				
REV. 9	DATE 5-10-53				
REV. 10	DATE 6-10-53				
REV. 11	DATE 7-10-53				
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REV. 97	DATE 9-10-60				
REV. 98	DATE 10-10-60				
REV. 99	DATE 11-10-60				
REV. 100	DATE 12-10-60				

S - UNIT SQUELCHED  
U - UNIT NOT SQUELCHED



**LEFT** **RIGHT**

B1+ 25VDC  
 B1- 70V AC

UNLESS OTHERWISE SPECIFIED:  
 1. RESISTORS IN OHMS UNLESS NOTED  
 2. CAPACITORS IN MICROFARADS UNLESS NOTED  
 3. 500K RESISTORS MEASURED WITH 500K RESISTOR IN PARALLEL  
 4. GAIN IS 2.0 WITH A.C.T.V. IN. 1.0 WITH A.C.T.V. OUT.  
 5. PHONO SENSITIVITY 4.5 COMPARATOR  
 6. PHONO SENSITIVITY 1.5 SPEAKERS  
 7. EXTRA

NOTE: THE FOLLOWING CONTROLS IN LEFT CHANNEL ARE MECHANICALLY LINKED WITH VERTICAL SLIDER IN RIGHT CHANNEL:  
 1. PHONO 2. TONE 3. VOLUME 4. SPEAKERS 5. COMPARATOR

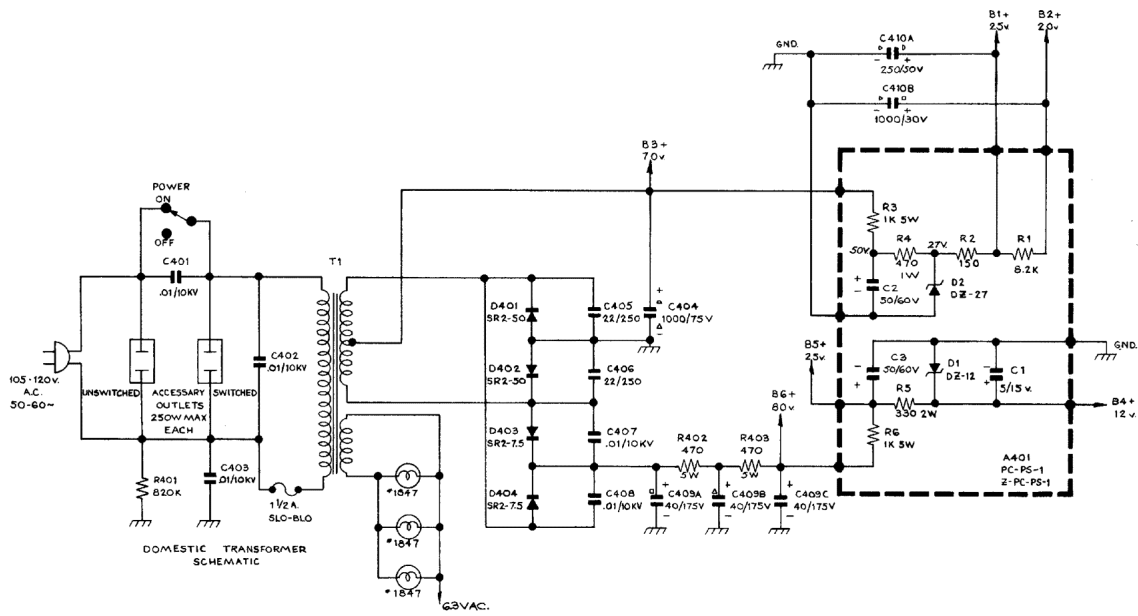
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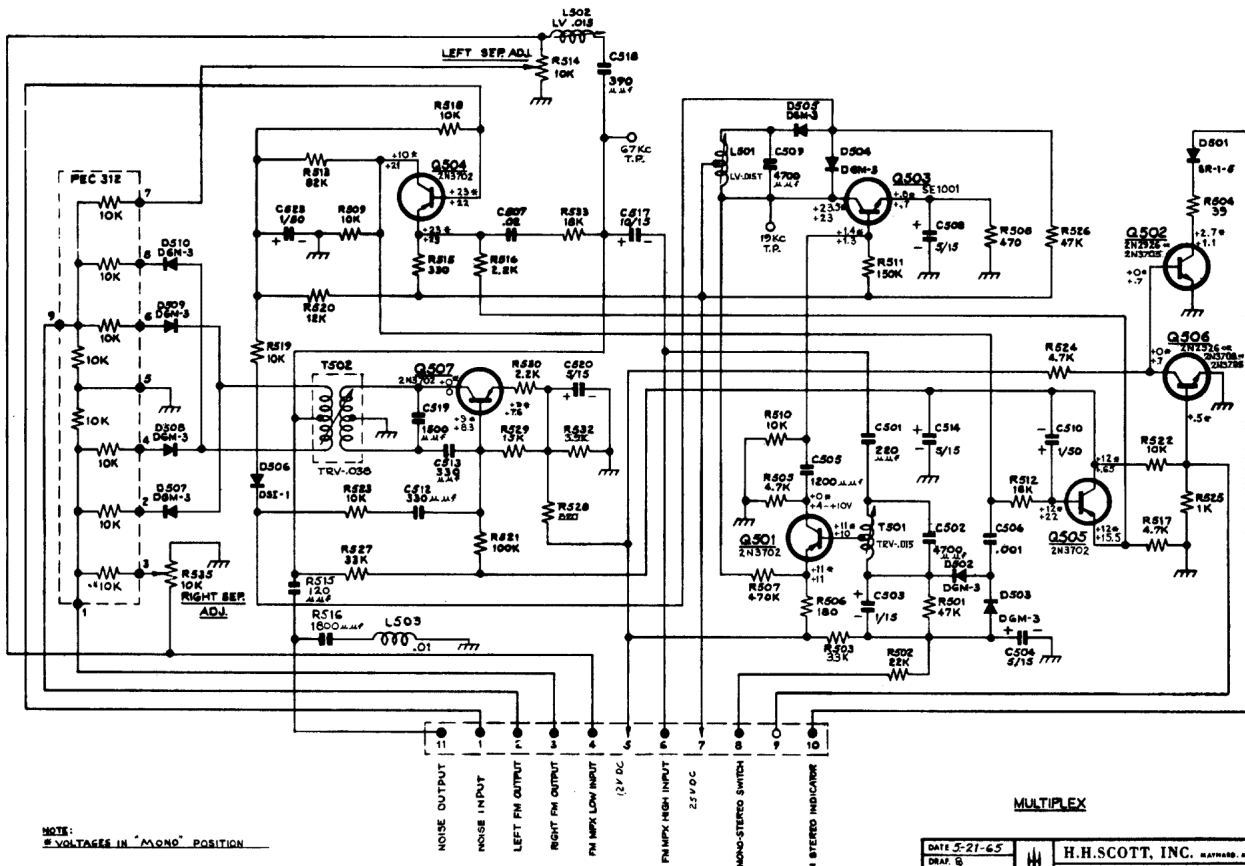
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R.R. SCOTT, INC. 348-C1  
 1965



DATE 5-25-65	H.H. SCOTT, INC. NAYTHAM, MASS.
DRAW. R	CIRCUIT DIAGRAM
CH.	
ENG. <i>W. J. L.</i>	SCALE: SHEET C
PROD.	REV. 0
	348-C1

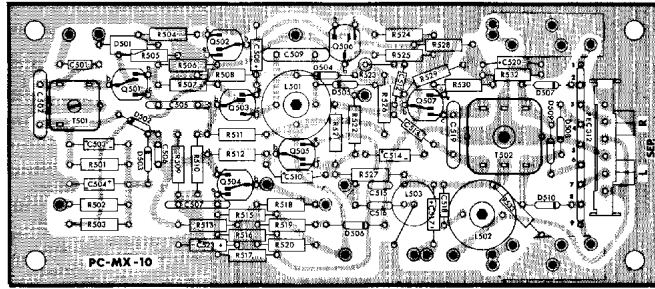


MULTIPLEX

DATE 5-21-65	H.H. SCOTT, INC. NAYTHAM, MASS.
DRAW. S	CIRCUIT DIAGRAM
CH.	
ENG. <i>W. J. L.</i>	SCALE: SHEET C
PROD.	REV. 0
	Z-MX-11-C1



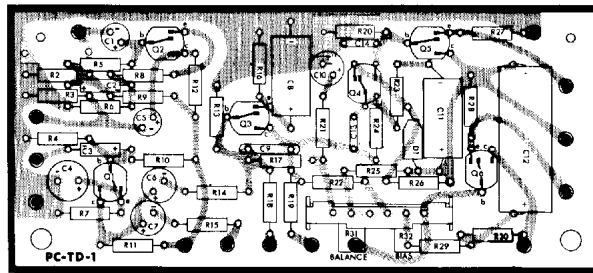
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 Q503 - 5E1001



MULTIPLEX

N-PC109-4L

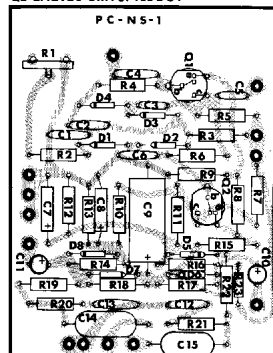
Q1 - 2N2926 YEL or GRN      Q4 - QA-9  
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 Q3 - QA-10 GRN ONLY      Q6 - QA-10 BLUE or GRN



PC-TD-1

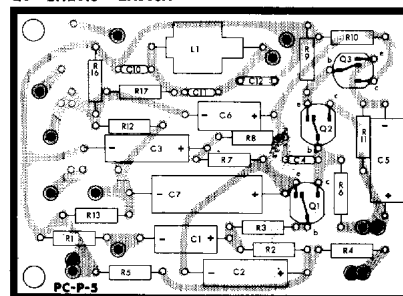
N-PC110-2L

Q1 - 2N2926 YEL DOT  
 Q2 - 2N2926 GRN or YEL DOT



NOISE AMP - SQUELCH      N-PC115-1L

Q1 - 2N2926 OR, YEL or GRN DOT  
 Q2 - 2N2926 BRN, RED or OR DOT  
 Q3 - 2N2613 or 2N508A



PREAMP

N-PC111-2L