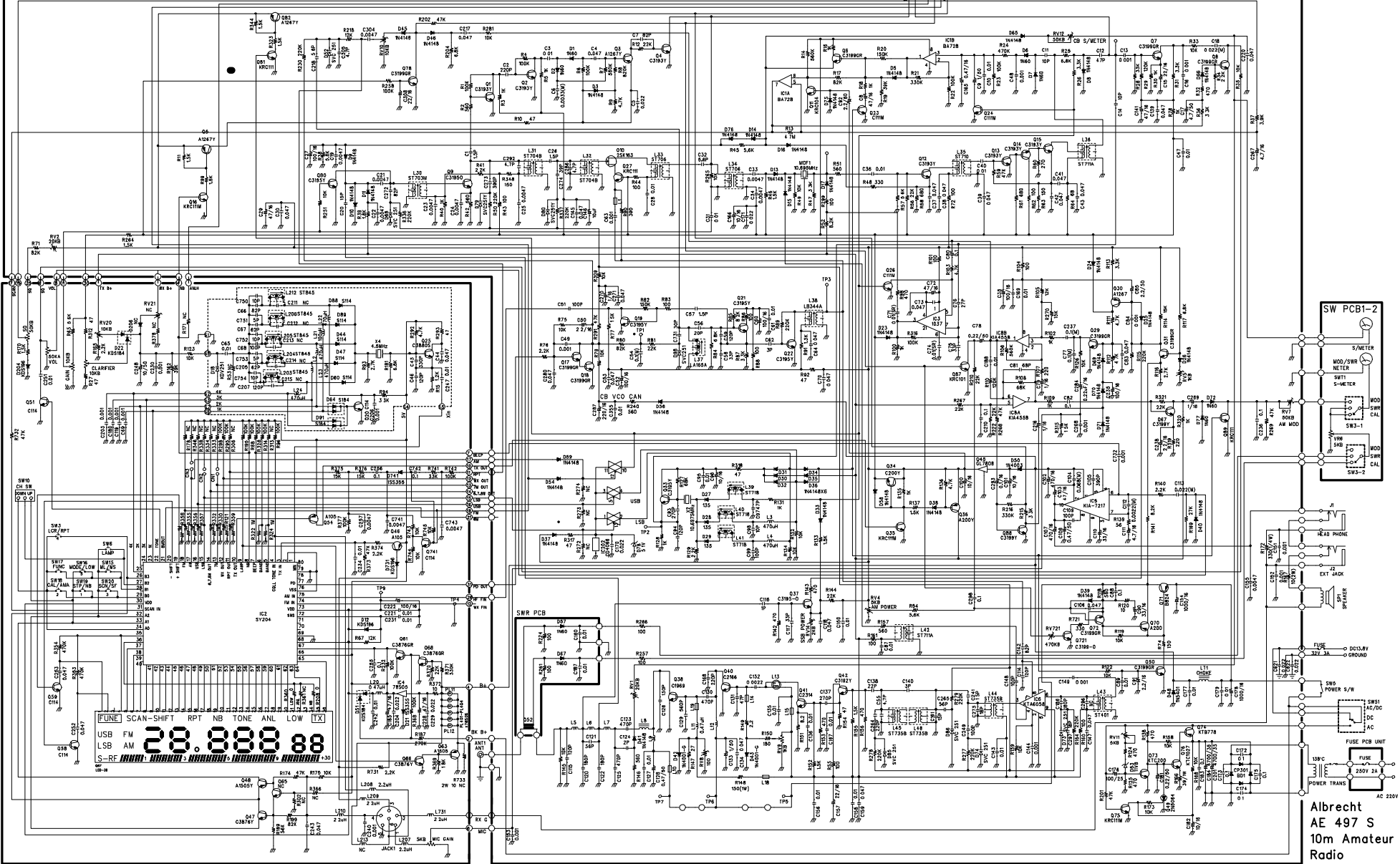
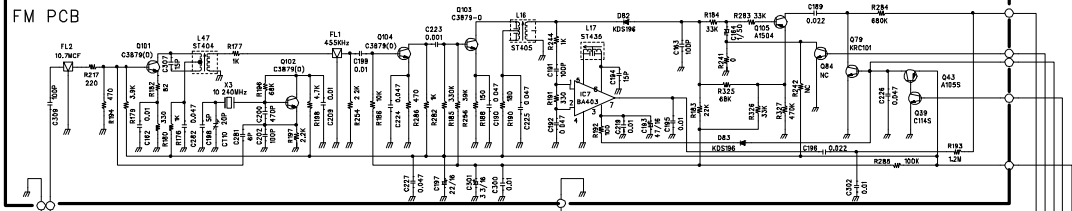
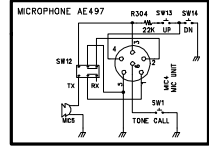
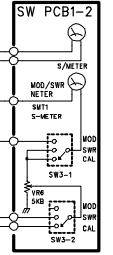


MODE SETTING		MODE SETTING	
PA	0. EXTENDED	PA	5. 500 MHz
PA	1. STANDARD	PA	6. 100 MHz
PA	2. B. BATTERY	PA	7. 100 MHz
PA	3. 100 MHz	PA	8. 100 MHz
PA	4. 100 MHz	PA	9. 100 MHz
PA	5. 100 MHz	PA	10. 100 MHz
PA	6. 100 MHz	PA	11. 100 MHz
PA	7. 100 MHz	PA	12. 100 MHz
PA	8. 100 MHz	PA	13. 100 MHz
PA	9. 100 MHz	PA	14. 100 MHz
PA	10. 100 MHz	PA	15. 100 MHz
PA	11. 100 MHz	PA	16. 100 MHz
PA	12. 100 MHz	PA	17. 100 MHz
PA	13. 100 MHz	PA	18. 100 MHz
PA	14. 100 MHz	PA	19. 100 MHz
PA	15. 100 MHz	PA	20. 100 MHz
PA	16. 100 MHz	PA	21. 100 MHz
PA	17. 100 MHz	PA	22. 100 MHz
PA	18. 100 MHz	PA	23. 100 MHz
PA	19. 100 MHz	PA	24. 100 MHz
PA	20. 100 MHz	PA	25. 100 MHz
PA	21. 100 MHz	PA	26. 100 MHz
PA	22. 100 MHz	PA	27. 100 MHz
PA	23. 100 MHz	PA	28. 100 MHz
PA	24. 100 MHz	PA	29. 100 MHz
PA	25. 100 MHz	PA	30. 100 MHz
PA	26. 100 MHz	PA	31. 100 MHz
PA	27. 100 MHz	PA	32. 100 MHz
PA	28. 100 MHz	PA	33. 100 MHz
PA	29. 100 MHz	PA	34. 100 MHz
PA	30. 100 MHz	PA	35. 100 MHz
PA	31. 100 MHz	PA	36. 100 MHz
PA	32. 100 MHz	PA	37. 100 MHz
PA	33. 100 MHz	PA	38. 100 MHz
PA	34. 100 MHz	PA	39. 100 MHz
PA	35. 100 MHz	PA	40. 100 MHz
PA	36. 100 MHz	PA	41. 100 MHz
PA	37. 100 MHz	PA	42. 100 MHz
PA	38. 100 MHz	PA	43. 100 MHz
PA	39. 100 MHz	PA	44. 100 MHz
PA	40. 100 MHz	PA	45. 100 MHz
PA	41. 100 MHz	PA	46. 100 MHz
PA	42. 100 MHz	PA	47. 100 MHz
PA	43. 100 MHz	PA	48. 100 MHz
PA	44. 100 MHz	PA	49. 100 MHz
PA	45. 100 MHz	PA	50. 100 MHz
PA	46. 100 MHz	PA	51. 100 MHz
PA	47. 100 MHz	PA	52. 100 MHz
PA	48. 100 MHz	PA	53. 100 MHz
PA	49. 100 MHz	PA	54. 100 MHz
PA	50. 100 MHz	PA	55. 100 MHz
PA	51. 100 MHz	PA	56. 100 MHz
PA	52. 100 MHz	PA	57. 100 MHz
PA	53. 100 MHz	PA	58. 100 MHz
PA	54. 100 MHz	PA	59. 100 MHz
PA	55. 100 MHz	PA	60. 100 MHz
PA	56. 100 MHz	PA	61. 100 MHz
PA	57. 100 MHz	PA	62. 100 MHz
PA	58. 100 MHz	PA	63. 100 MHz
PA	59. 100 MHz	PA	64. 100 MHz
PA	60. 100 MHz	PA	65. 100 MHz
PA	61. 100 MHz	PA	66. 100 MHz
PA	62. 100 MHz	PA	67. 100 MHz
PA	63. 100 MHz	PA	68. 100 MHz
PA	64. 100 MHz	PA	69. 100 MHz
PA	65. 100 MHz	PA	70. 100 MHz
PA	66. 100 MHz	PA	71. 100 MHz
PA	67. 100 MHz	PA	72. 100 MHz
PA	68. 100 MHz	PA	73. 100 MHz
PA	69. 100 MHz	PA	74. 100 MHz
PA	70. 100 MHz	PA	75. 100 MHz
PA	71. 100 MHz	PA	76. 100 MHz
PA	72. 100 MHz	PA	77. 100 MHz
PA	73. 100 MHz	PA	78. 100 MHz
PA	74. 100 MHz	PA	79. 100 MHz
PA	75. 100 MHz	PA	80. 100 MHz
PA	76. 100 MHz	PA	81. 100 MHz
PA	77. 100 MHz	PA	82. 100 MHz
PA	78. 100 MHz	PA	83. 100 MHz
PA	79. 100 MHz	PA	84. 100 MHz
PA	80. 100 MHz	PA	85. 100 MHz
PA	81. 100 MHz	PA	86. 100 MHz
PA	82. 100 MHz	PA	87. 100 MHz
PA	83. 100 MHz	PA	88. 100 MHz
PA	84. 100 MHz	PA	89. 100 MHz
PA	85. 100 MHz	PA	90. 100 MHz
PA	86. 100 MHz	PA	91. 100 MHz
PA	87. 100 MHz	PA	92. 100 MHz
PA	88. 100 MHz	PA	93. 100 MHz
PA	89. 100 MHz	PA	94. 100 MHz
PA	90. 100 MHz	PA	95. 100 MHz
PA	91. 100 MHz	PA	96. 100 MHz
PA	92. 100 MHz	PA	97. 100 MHz
PA	93. 100 MHz	PA	98. 100 MHz
PA	94. 100 MHz	PA	99. 100 MHz
PA	95. 100 MHz	PA	100. 100 MHz



FUNE SCAN-SHIFT RPT NB TONE ANL LOW TX  
 USB FM  
 LSB AM  
 S-RE

28.888.88



176 M/M

SCREEN TOP		COMP. SIDE	
MODEL M-497		SCALE 1=1	
BUTER DRAGON		MAT'L XPC-94VU	
NAME MAIN PCB		SIZE 227x176x1.61	
DRAWN	CHECKED	APPROVED	PART NO
07/03/24			JPMXX0247

R123

AC OUT JPMXX0149

AC IN

AC 250V 1A

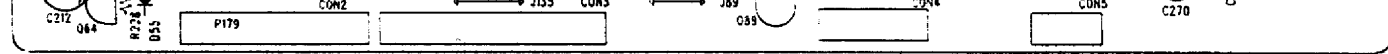
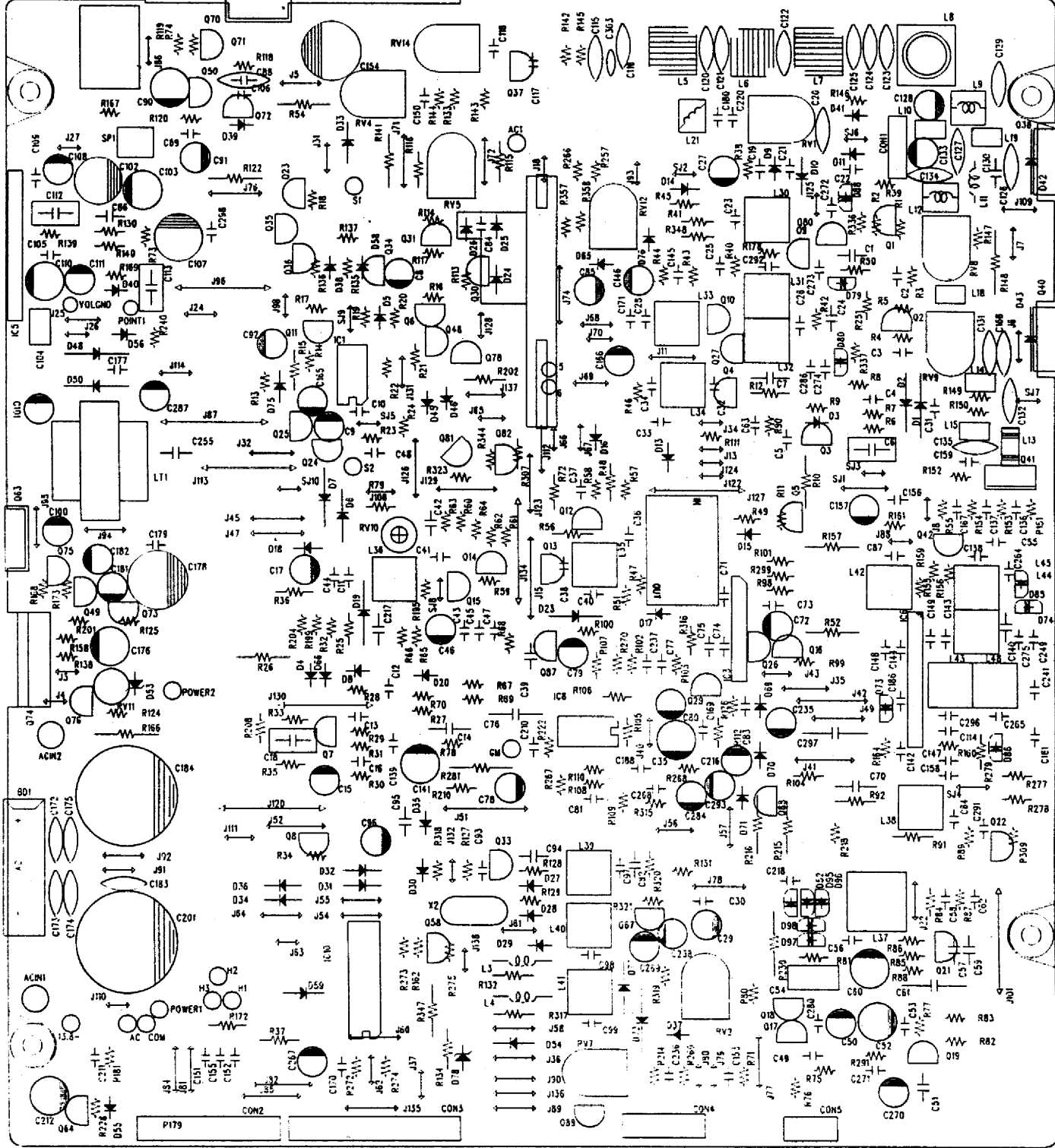
R123

AC OUT JPMXX0149

AC IN

AC 250V 1A

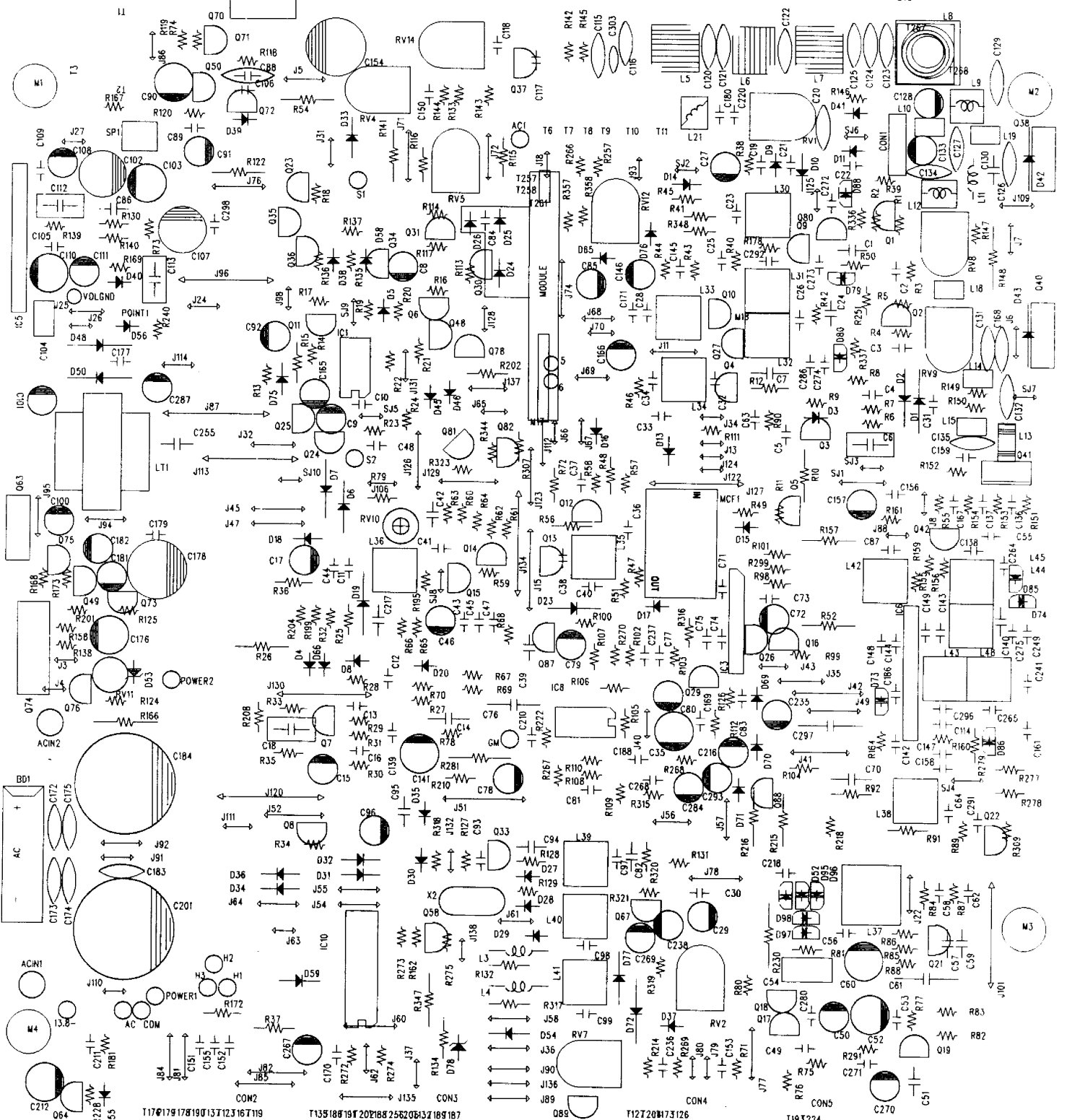
227 M/M



AE 497 S Main PCB-Hauptplatine

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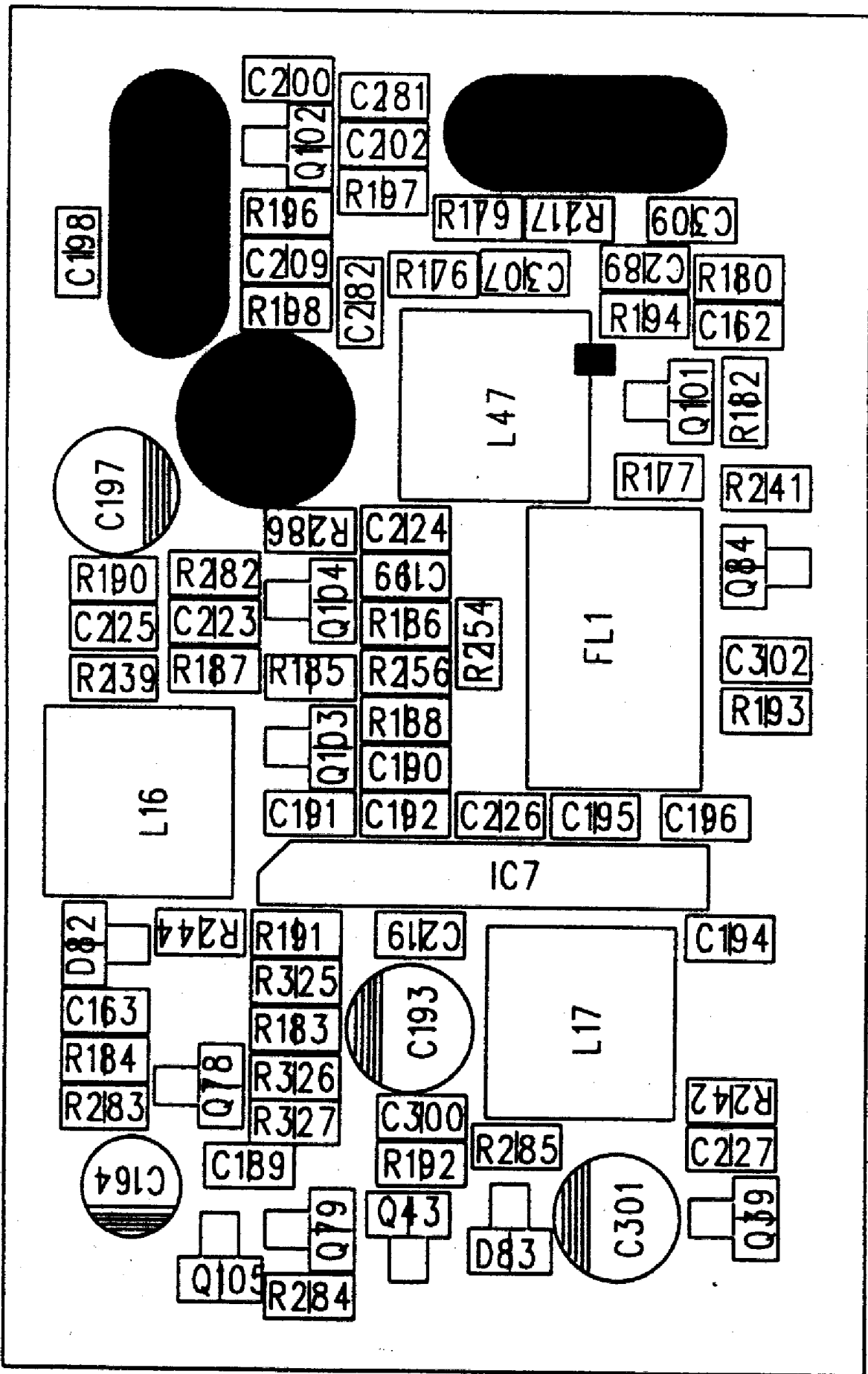


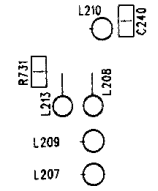
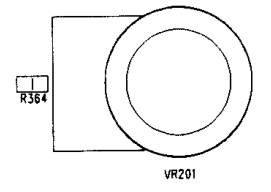
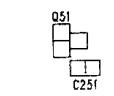
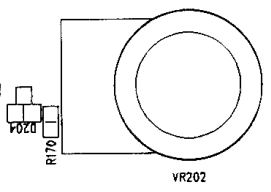
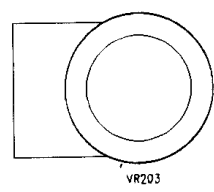
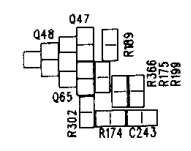
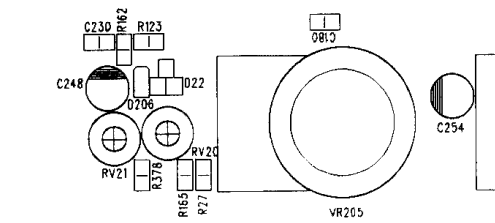
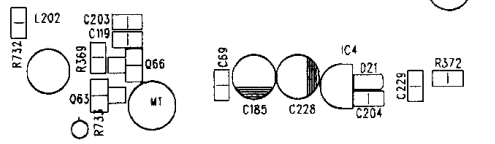
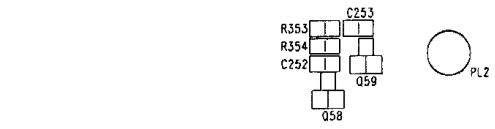
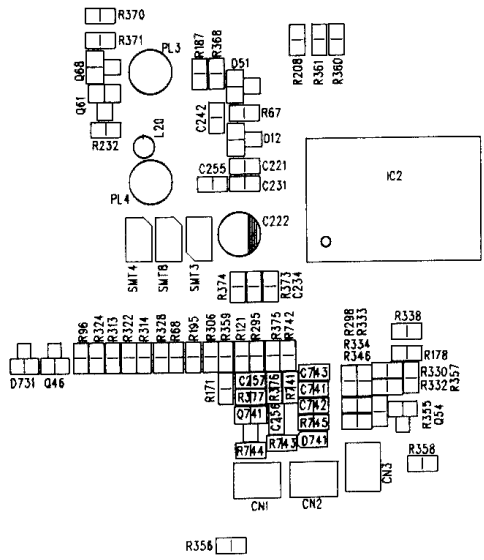
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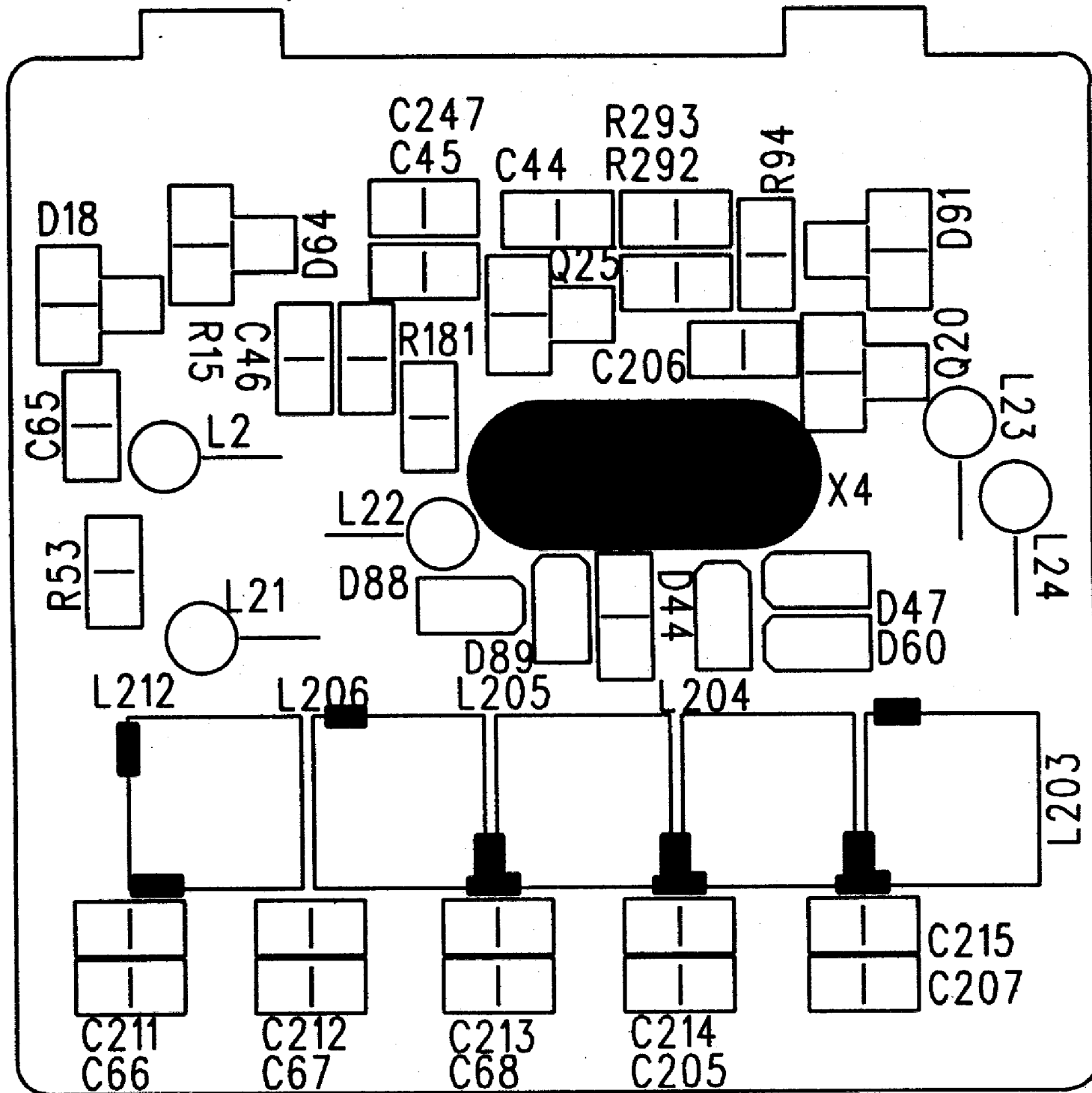
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T127208173126

T193224







Albrecht Electronic

EXPANSION SS497 25WATT

IC Pin	REF. NO	40ch only	40ch only	40ch only	454ch only	Ham only	HAM/454 HAM start	454/HAM CB start	40/HAM CB start	FM 40ch only
11	R418	L/H	L/H	H	H	L	L	H	H	H/L
13	R416/420	L/H	L/H	H	H	H	L	L	L	H/L
14	R414	H	H	L	L	L	L	L	L	H
15	R413/415	H	L	H	L	L	L	L	H	H
17	R411	L	L	L	L	L	L	L	L	H
Remark		step disable	ch9+power on 454ch step disable	step enable	step enable	step enable	step enable	step enable	step enable	step disable

H : ADD 10K

L : OPEN

H/L : ADD 10K or OPEN

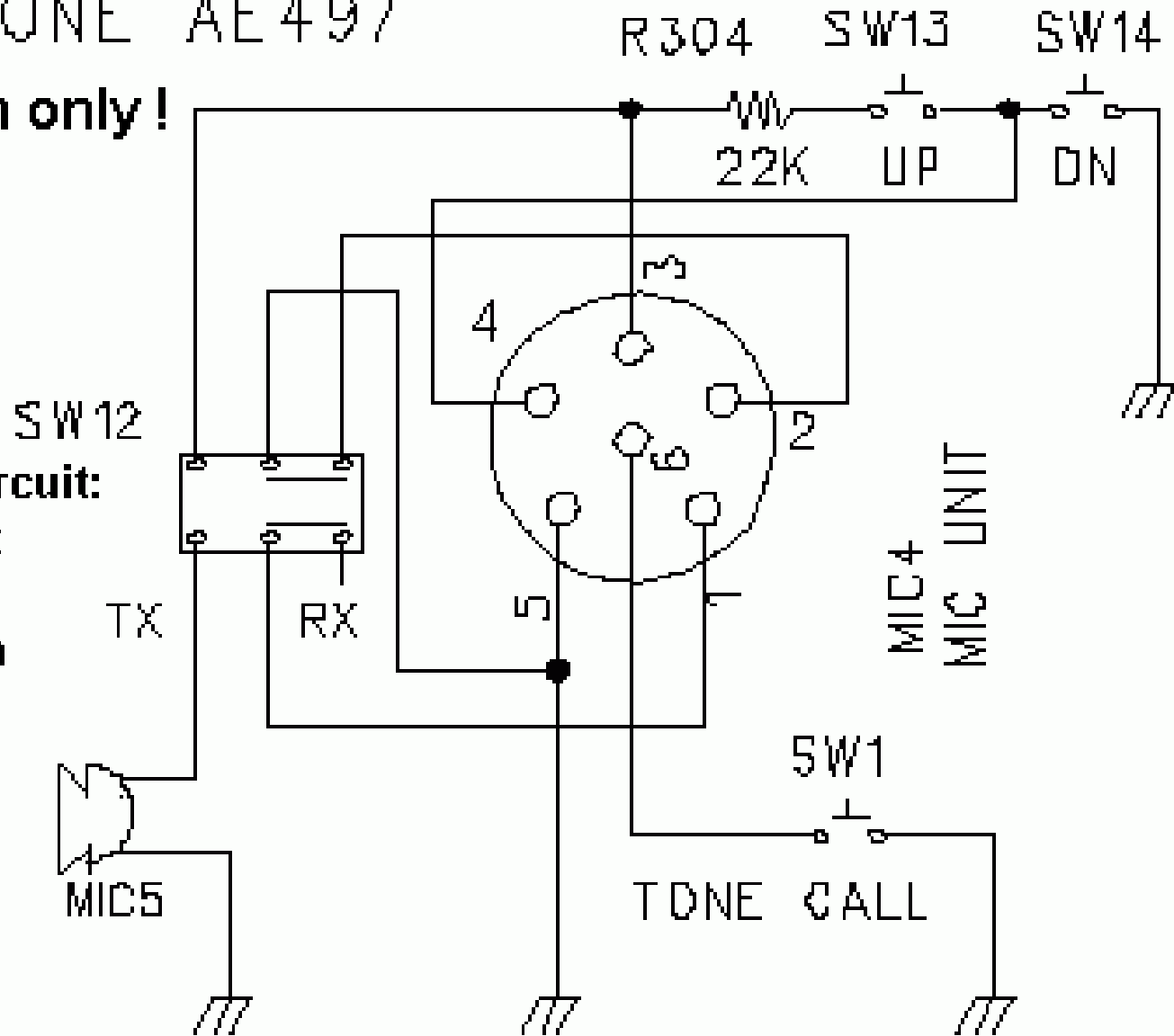
Channel expansion truth table for AE 497  
25 Watts version only

For use by licenced amateur radio operators only!

# MICROPHONE AE 497

**12 W version only !**

**Risk of short-circuit:  
Do not connect  
this MIC to  
25 Watt version  
of AE 497 S !**





**Servicemitteilung AE 497**  
**497-U2.PDF**  
**10. 2. 99**

**1. Verbesserung der S-Meter Linearität und der Squelch-Empfindlichkeit**

**Problem:**

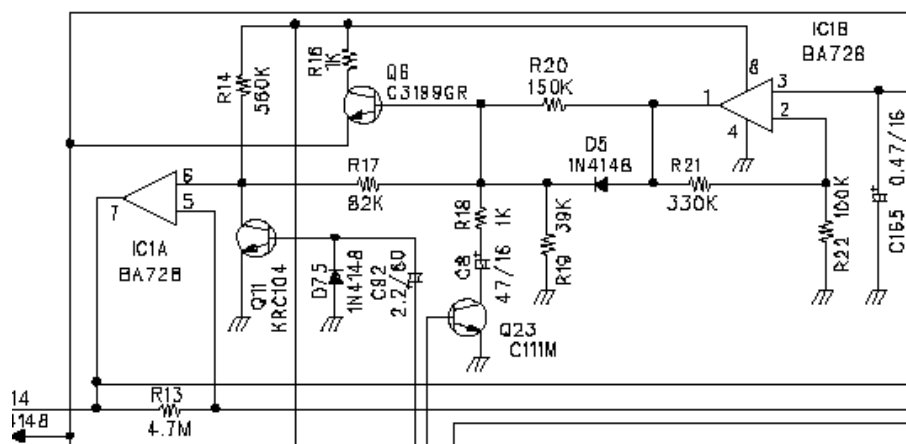
Die S-Meter Schaltung der AE 497 S zeigt bei vielen Geräten im unteren Bereich unter 20 dB $\mu$ V Eingangsspannung zu wenig an.

Die Squelchempfindlichkeit (Schaltpunkt bei höchster Empfindlichkeit) wird manchmal als zu gering (Schaltpunkt zwischen 8-12 dB $\mu$ V) bemängelt.

**Abhilfe:**

Diode D 5 (Original 1 N 4148) durch eine Germaniumdiode 1 N 60 ersetzen.

Es ist auch möglich, die Originaldiode in der Schaltung zu belassen und eine



Germaniumdiode von oben zusätzlich aufzulöten. Diese Änderung verbessert den Squelch-Schaltpunkt um 4-6 dB und korrigiert die S-Meter-Anzeige im Bereich zwischen S 1 und S 5.

Die Diode findet man links unter der FM-Zusatzplatine. Die Zusatzplatine kann man zum Einlöten der Diode vorsichtig an den stehenden Verbindungspfeilen etwas nach rechts wegdrücken, damit man an D 5 herankommt.



## User information for Albrecht 10 m transceivers

### Frequency extension to 454 Channel system

All our 10 m all mode transceivers AE 485 S, AE 497 S and AE 201S can be switched **temporarily** from frequency mode 28-29.7 MHz into "channel mode". The list of frequencies and channels can be found on the next page.

After the conversion, the radio can be used from 25.165 MHz to 29.695 MHz. While Albrecht specifications are only valid for the amateur range starting with 28.000 MHz, Albrecht cannot guarantee correct operation on extended frequencies, especially on the lower channels. It may happen that the transceiver operate with less performance (output and sensitivity) or does even not lock in on all frequencies outside of the specified amateur radio range.

**Note:** Only authorized users are allowed to operate on these frequencies! Even if You should have a valid amateur radio operator's licence it is not allowed to use channels or frequencies outside of the dedicated amateur radio band. The regulations may vary from country to country. Users are requested to fulfill all national user requirements for operating the radio.

#### Switching to 454 CHANNEL MODE:

##### AE 201 S:

Just press **FUNCTION** button, then press **CALL** and hold this key pressed for about 3 seconds. Release button and the unit works on 454 Channels until the radio will be later switched off again.

If You have once switched to 454 channels, You can also **toggle between channel number and frequency display** by pressing **FUNCTION + CALL**, but this only by touching the call button for short time.

**AE 495 S and AE 497 S:** same procedure, but here the correct buttons are the "**FUNCTION**" and the "**2**" buttons.









