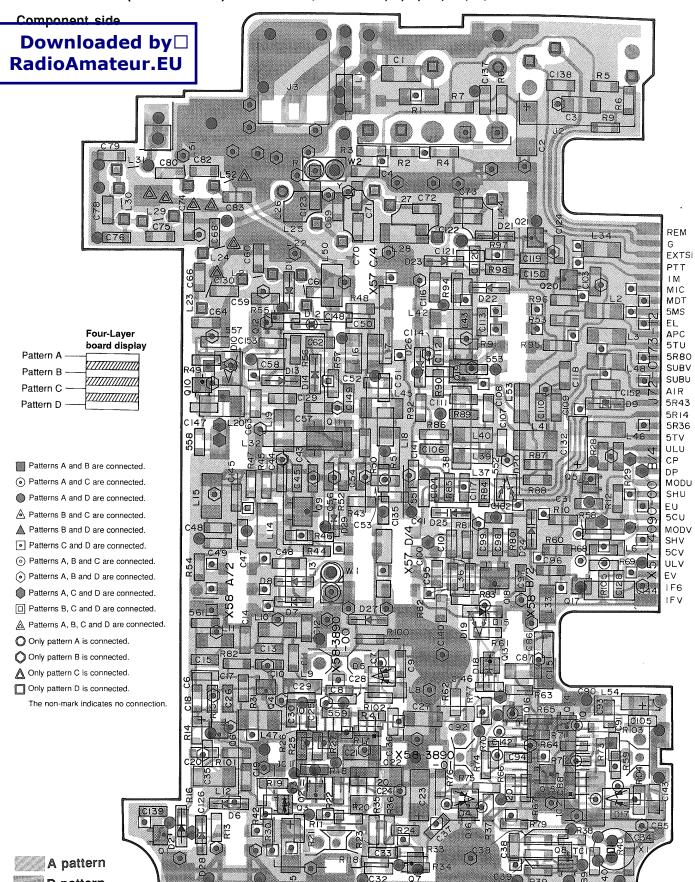
TH-78A/E

TX-RX UNIT-RF (X57-409X-XX) B/4 0-11: K, P 2-71: T, X, E, E2, E3, M, M2



D pattern

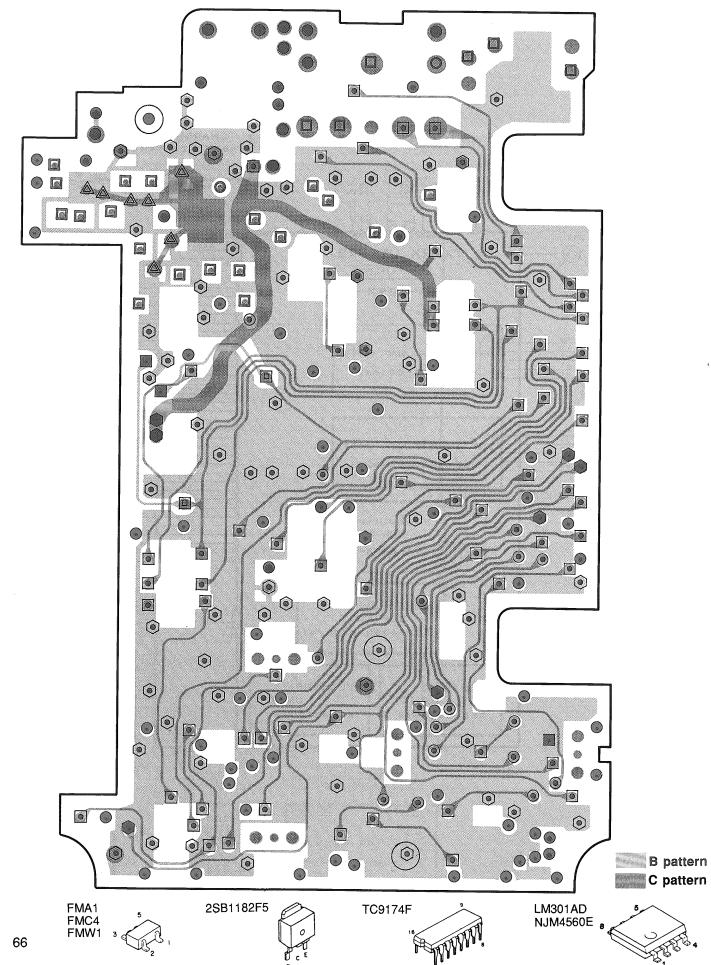


DTB113ZK 2SC4215 2SC4617 2SC4619

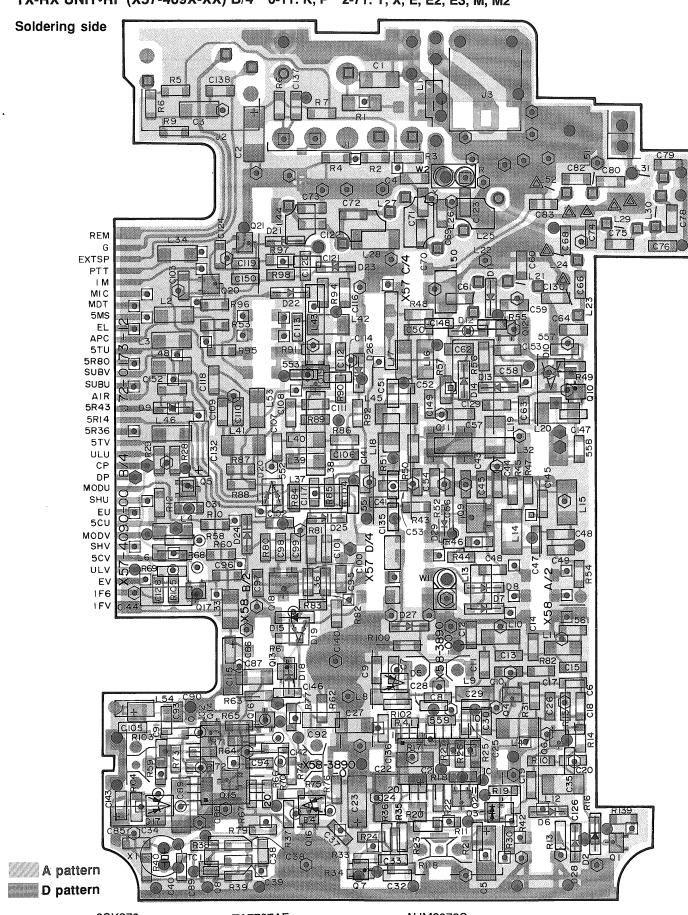


DTA114YE DTA144WE DTC114EE DTC114YE DTC144EE

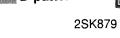




TX-RX UNIT-RF (X57-409X-XX) B/4 0-11: K, P 2-71: T, X, E, E2, E3, M, M2

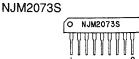


B pattern C pattern





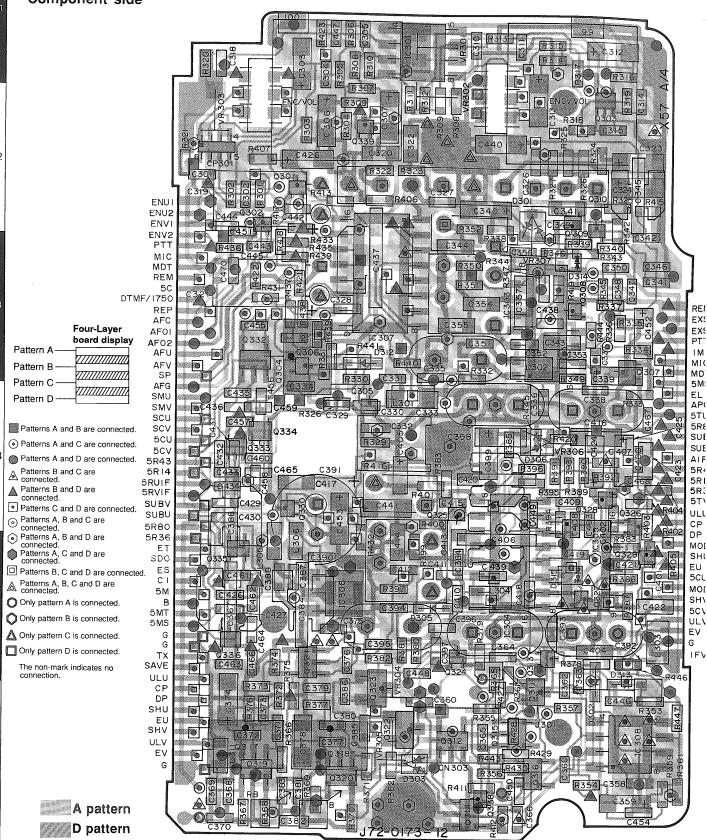


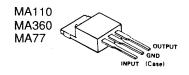


TH-78A/E **Downloaded by**□ RadioAmateur.EU ( ( 000 ( 000 0 ( ( 00 ( (**1** 0 ( 0 **(9)** ( 0 0 0 ( ( 0 0 (**©** 0 **(** 0 0 0 ( 0 0 **(**() ( (a)(b) 0 ( ( Ò 0 0 0 0 (a) 0 0 ( ( 0 0 ( ( 0 ( 0 (9) 0 0 ( 00/00 0 0 0 0 ( ( 0 0 ( 0 0 0 ( 0 0 (0) B pattern (0) C pattern S-81250HG-RD MC3372D 68 FLAT TYPE

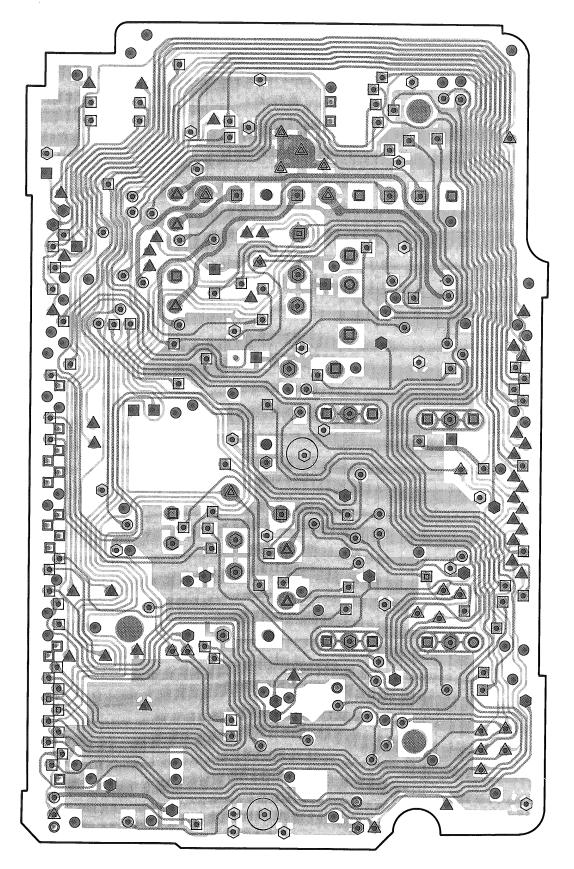
TH-78A/E

TX-RX UNIT-IF (X57-409X-XX) A/4 0-11: K, P 2-71: T, X, E, E2, E3, M, M2 Component side





2SC4083 2SC4617 2SA1832 2SC4726 2SC4738 2SC4839-J 2SC4226 DTC114YE

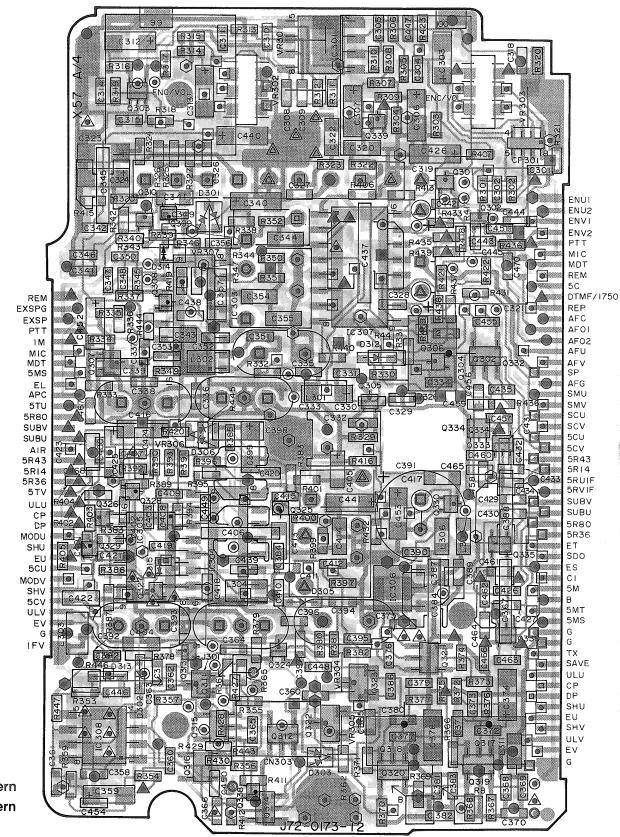


B patter C patter

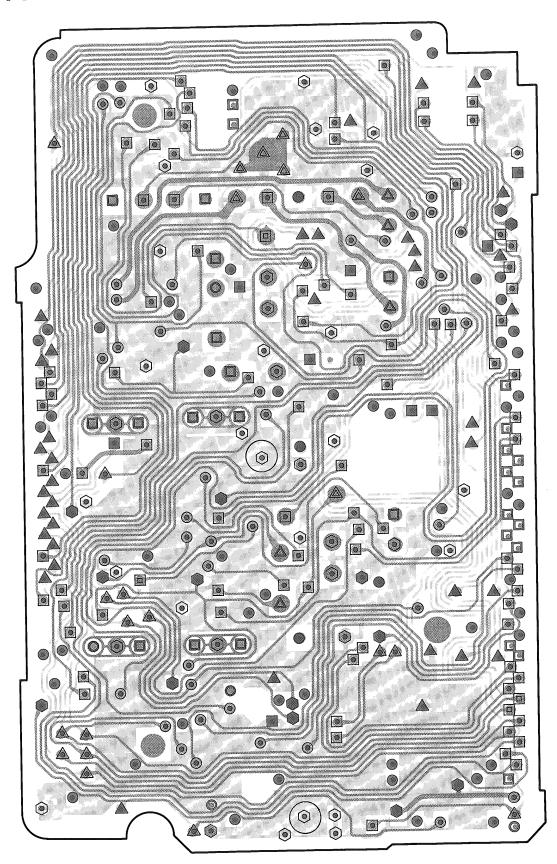
2SK1824

MB1511PFV-G-BND

TX RX UNIT•IF (X57-409X-XX) A/4 0-11: K, P 2-71: T, X, E, E2, E3, M, M2 Soldering side

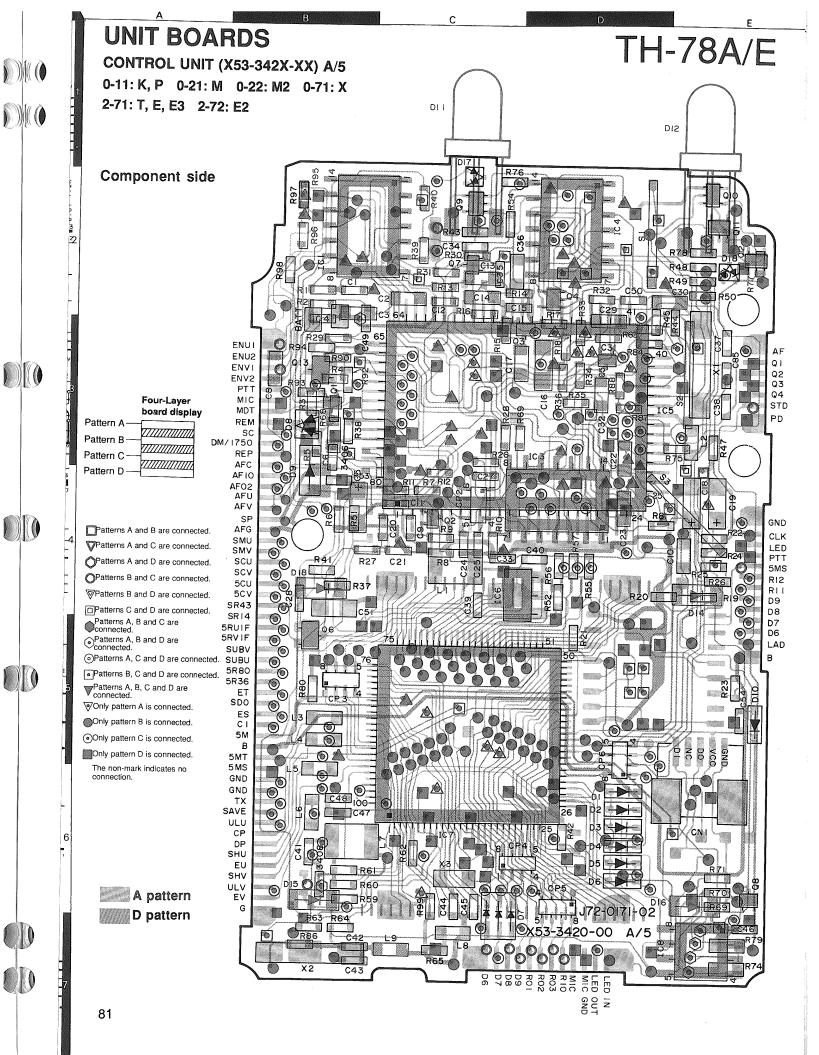


attern attern



ΑN

B pattern
C pattern



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B30-0897-( B30-2033-0 B30-2039-0 MA110



DTA143XE 2SC4617



2SJ144



S-8054ALR-



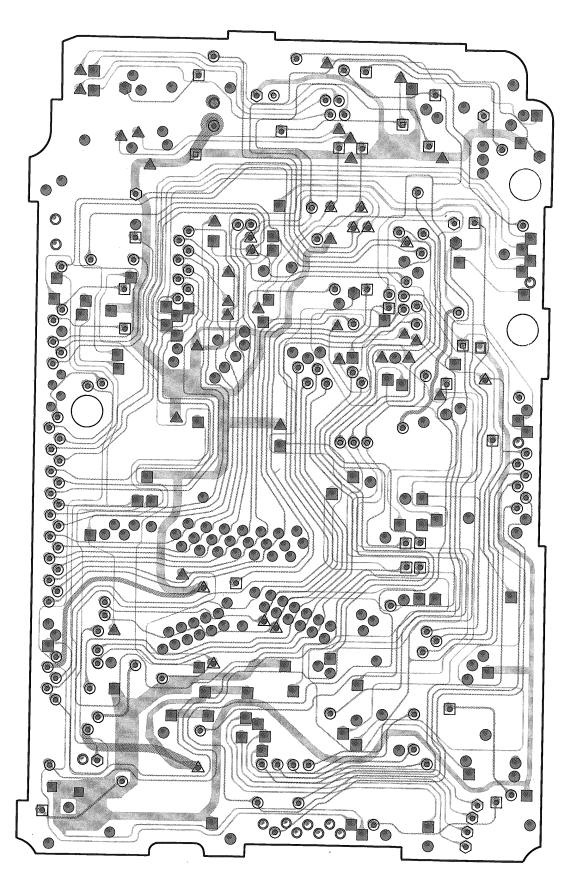
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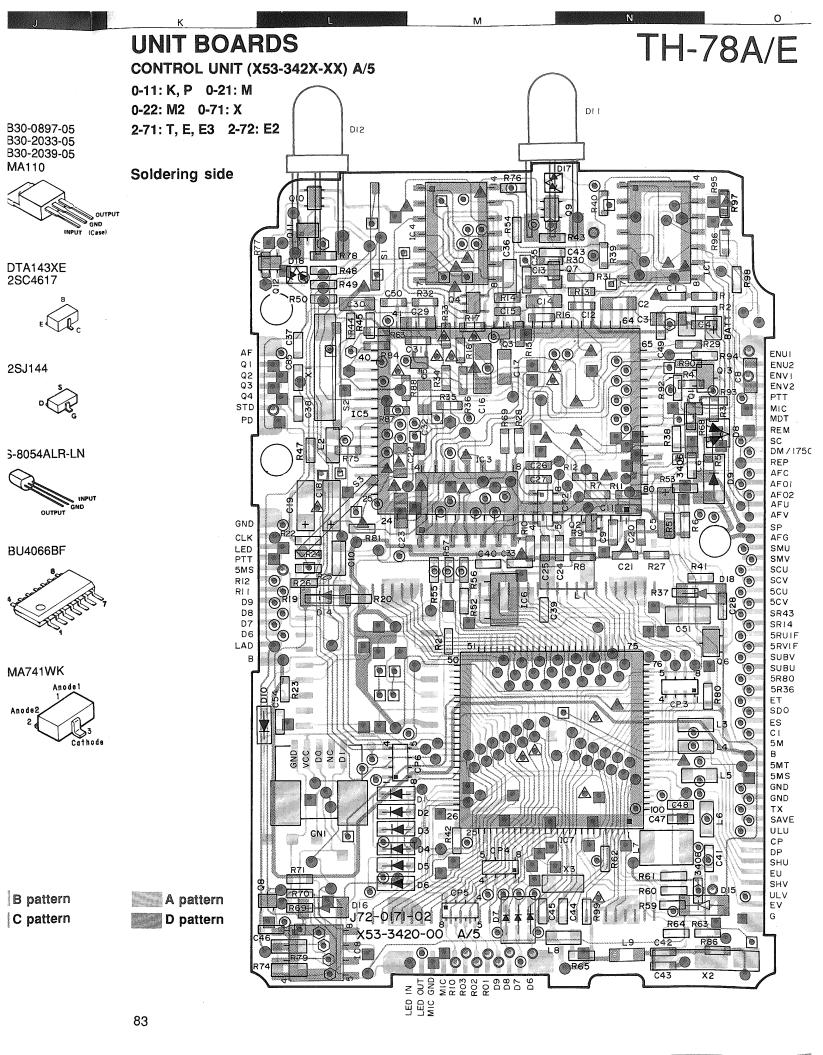


MA741WK



B pattern C pattern





О



2SK1824



DTC114EE



UMC4



HD404629A20H



75517GF-122-3B9

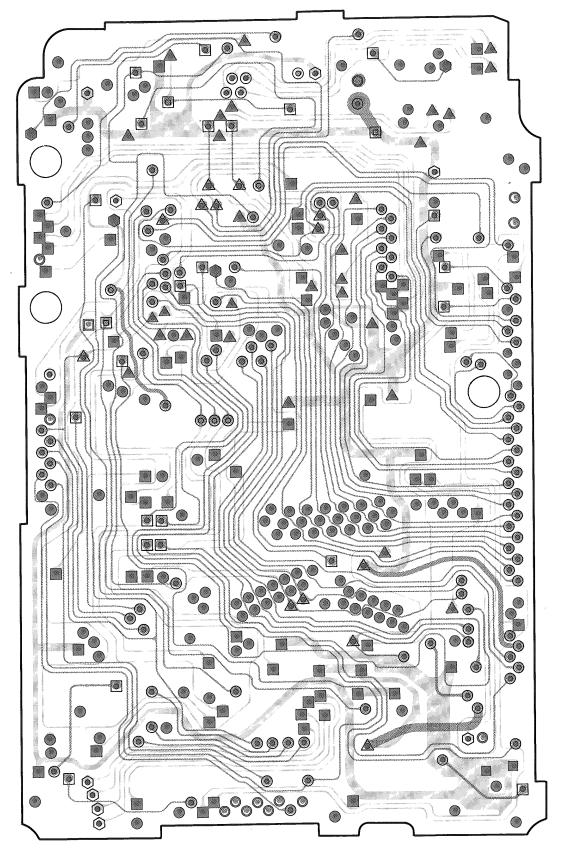


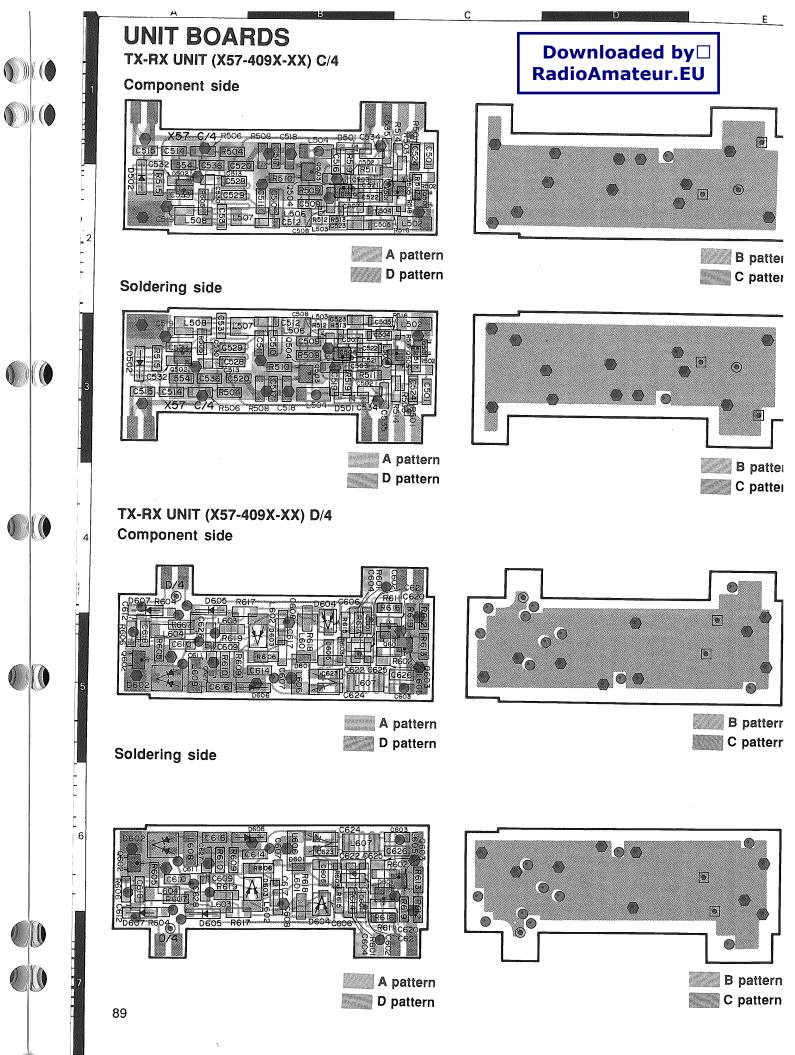
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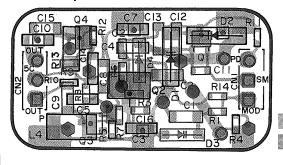




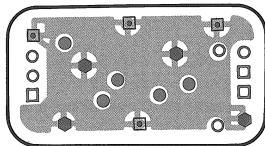


#### SUB UNIT (VHF VCO) (X58-3890-00)

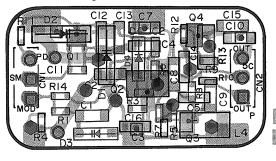
#### Component side



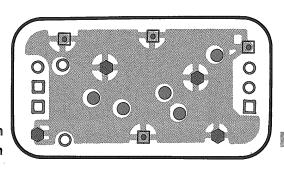
A pattern D pattern



Soldering side

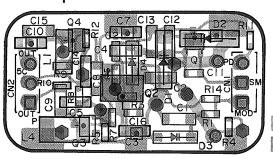


A pattern D pattern

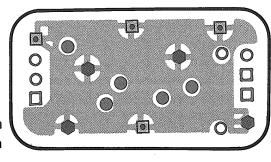


#### SUB UNIT (UHF VCO) (X58-3890-01)

#### Component side

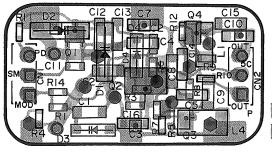


A pattern D pattern

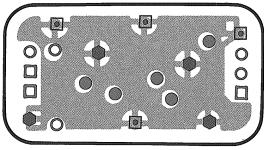


C pa

#### Soldering side



B pattern C pattern

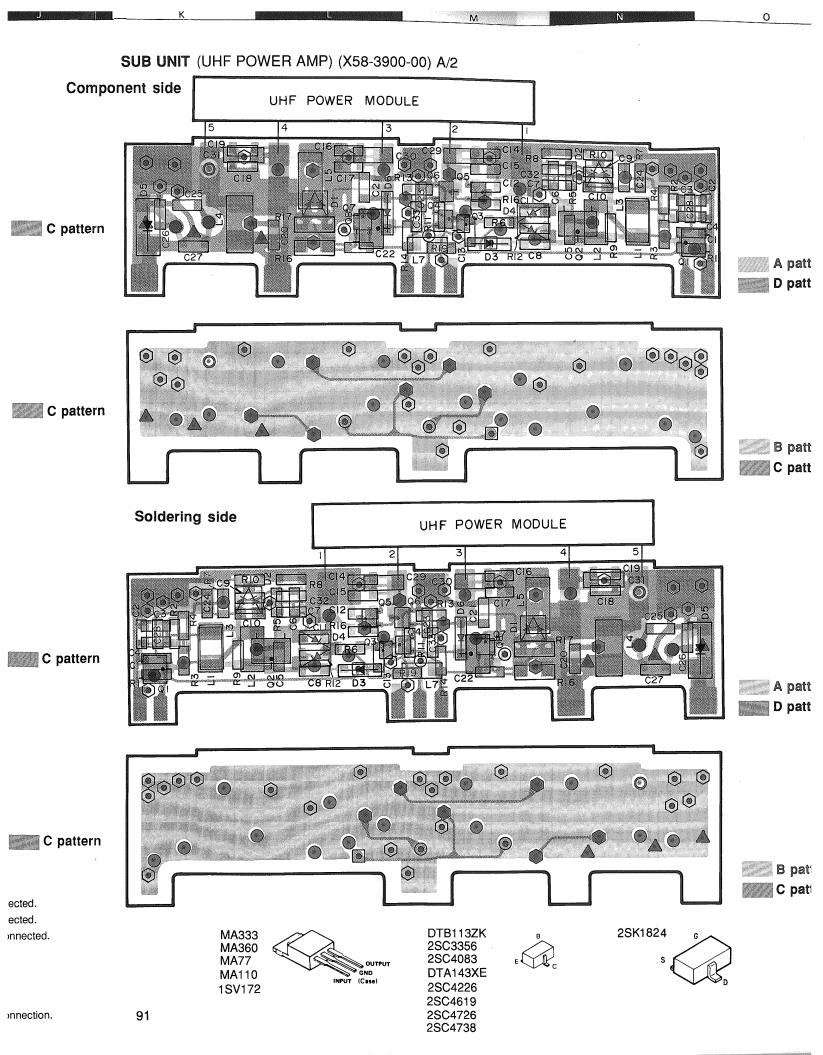


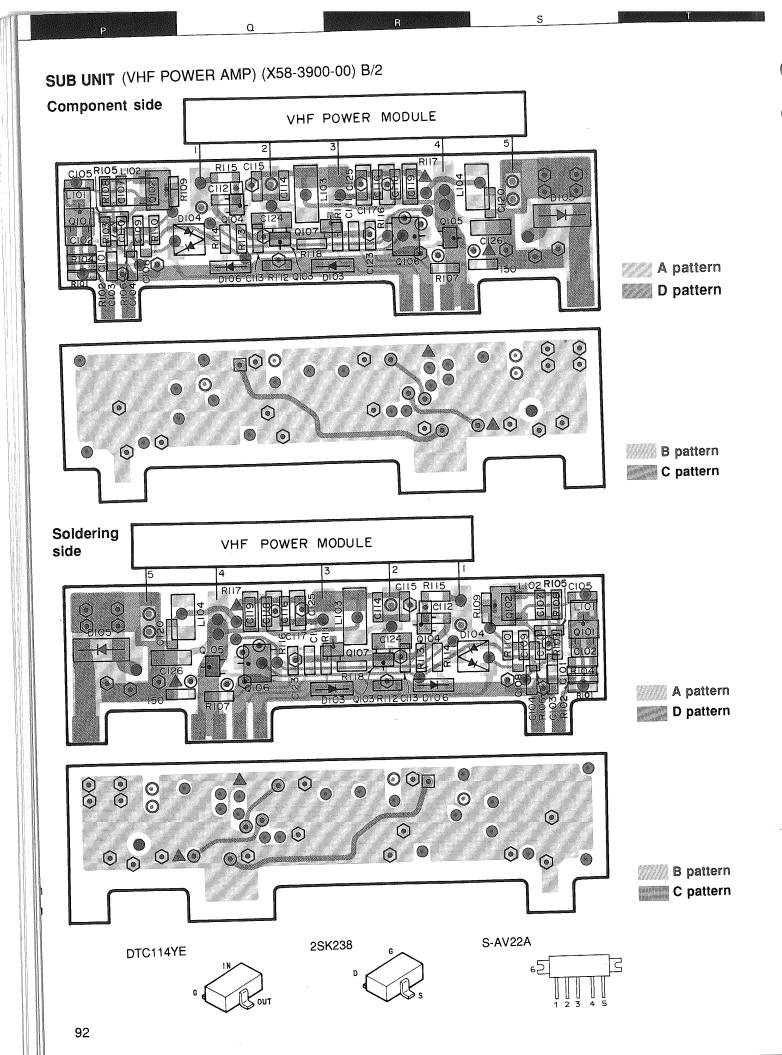
Four-Layer board display

Pattern A Pattern B Pattern C Pattern D

- Patterns A and B are connected.
- Patterns A and C are connected.
- Patterns A and D are connected.
- ♠ Patterns B and C are connected. ▲ Patterns B and D are connected.
- Patterns C and D are connected.
- Patterns A, B and C are connected.
- Patterns A, B and D are connected.
- Patterns A, C and D are connected.
- Patterns B, C and D are connected.
- △ Patterns A, B, C and D are connected.
- Only pattern A is connected.
- Only pattern B is connected.
- ▲ Only pattern C is connected.
- Only pattern D is connected.

The non-mark indicates no connection.

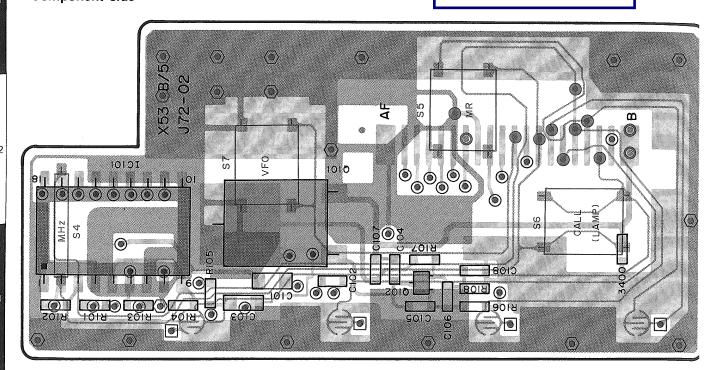




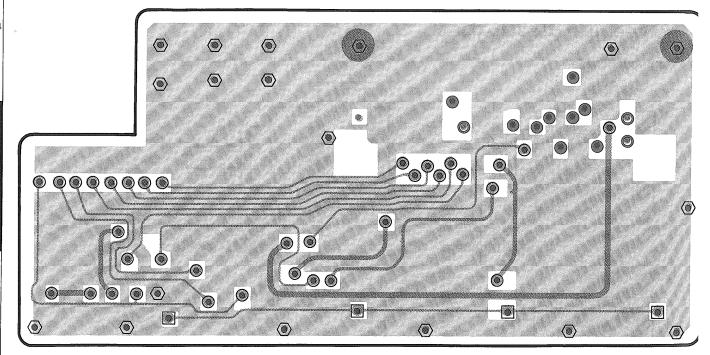
**CONTROL UNIT (X53-342X-XX) B/5** 

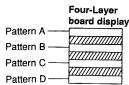
Component side

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A patterr
D patterr





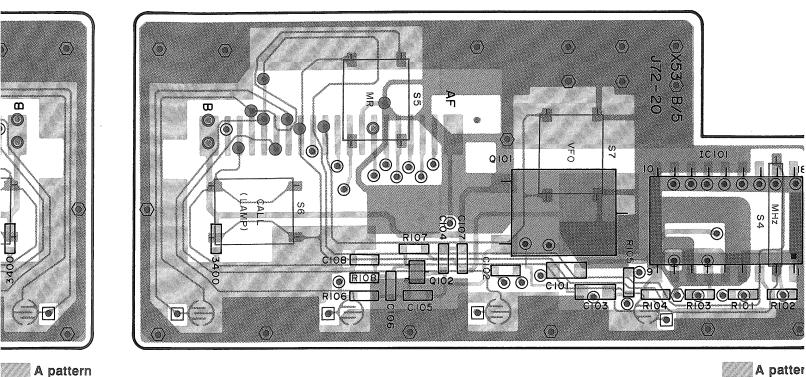
- Patterns A and B are connected.
- Patterns A and C are connected.
- Patterns A and D are connected.
- A Patterns B and C are connected.
- Patterns B and D are connected.
- Patterns C and D are connected.
- Patterns A, B and C are connected.Patterns A, B and D are connected.
- Patterns A, C and D are connected.
- Patterns B, C and D are connected.
- A Patterns A, B, C and D are connected.
- Only pattern A is connected.
- Only pattern B is connected.
- Only pattern C is connected.
- Only pattern D is connected.

The non-mark indicates no connection.

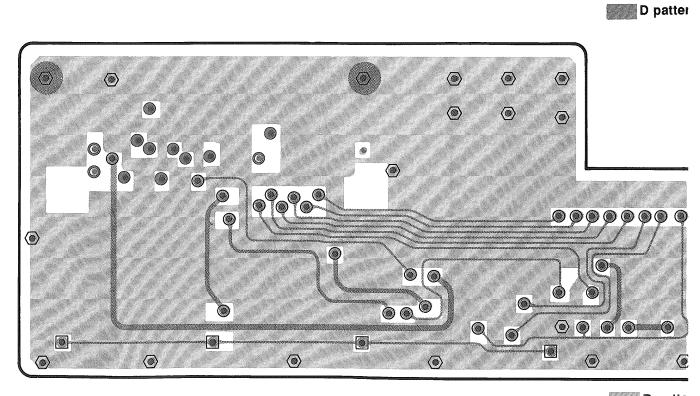
B pattern

C pattern

#### Soldering side











2SC4617



2SB1182F5

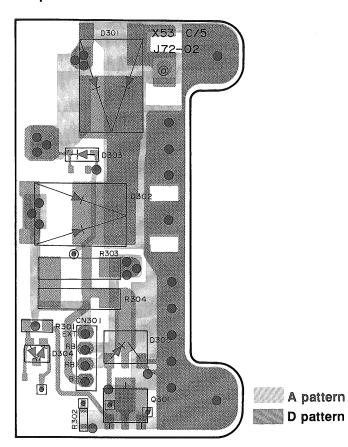


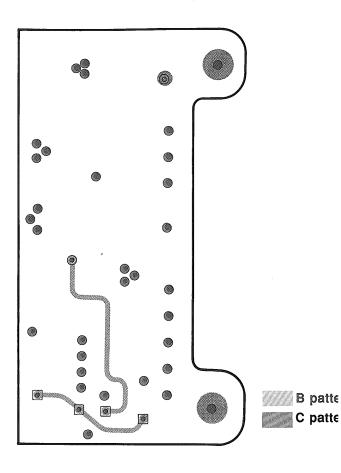
B patte
C patte

**CONTROL UNIT (X53-342X-XX) C/5** 

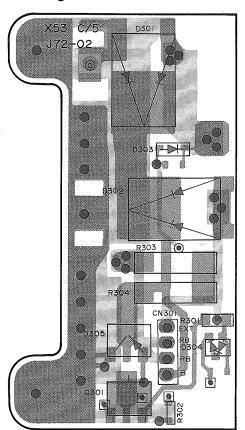
Component side

200

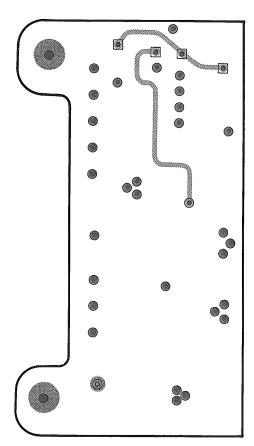




Soldering side



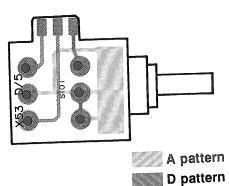


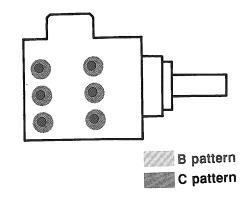




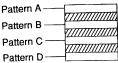
### CONTROL UNIT (X53-342X-XX) C/5

#### Component side



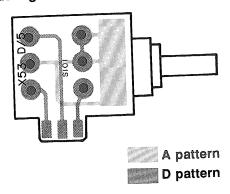


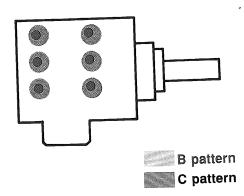
#### Four-Layer board display



- Patterns A and B are connected.
- Patterns A and C are connected.
- Patterns A and D are connected.
- Patterns B and C are connected.
- Patterns B and D are connected.
- Patterns C and D are connected.
- Patterns A, B and C are connected.
- Patterns A, B and D are connected. Patterns A, C and D are connected.
- Patterns B, C and D are connected.
- A Patterns A, B, C and D are connected.
- Only pattern A is connected.
- Only pattern B is connected.
- Only pattern C is connected.
- Only pattern D is connected. The non-mark indicates no connection.

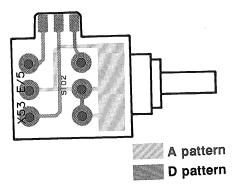
#### Soldering side

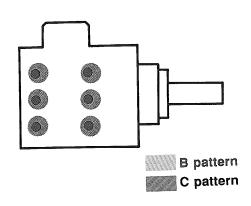


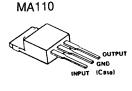


### CONTROL UNIT (X53-342X-XX)E/5

#### Component side



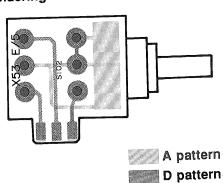


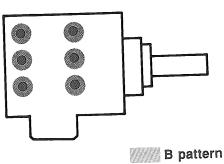


2SB798



#### Soldering side





C pattern

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