

# KENWOOD

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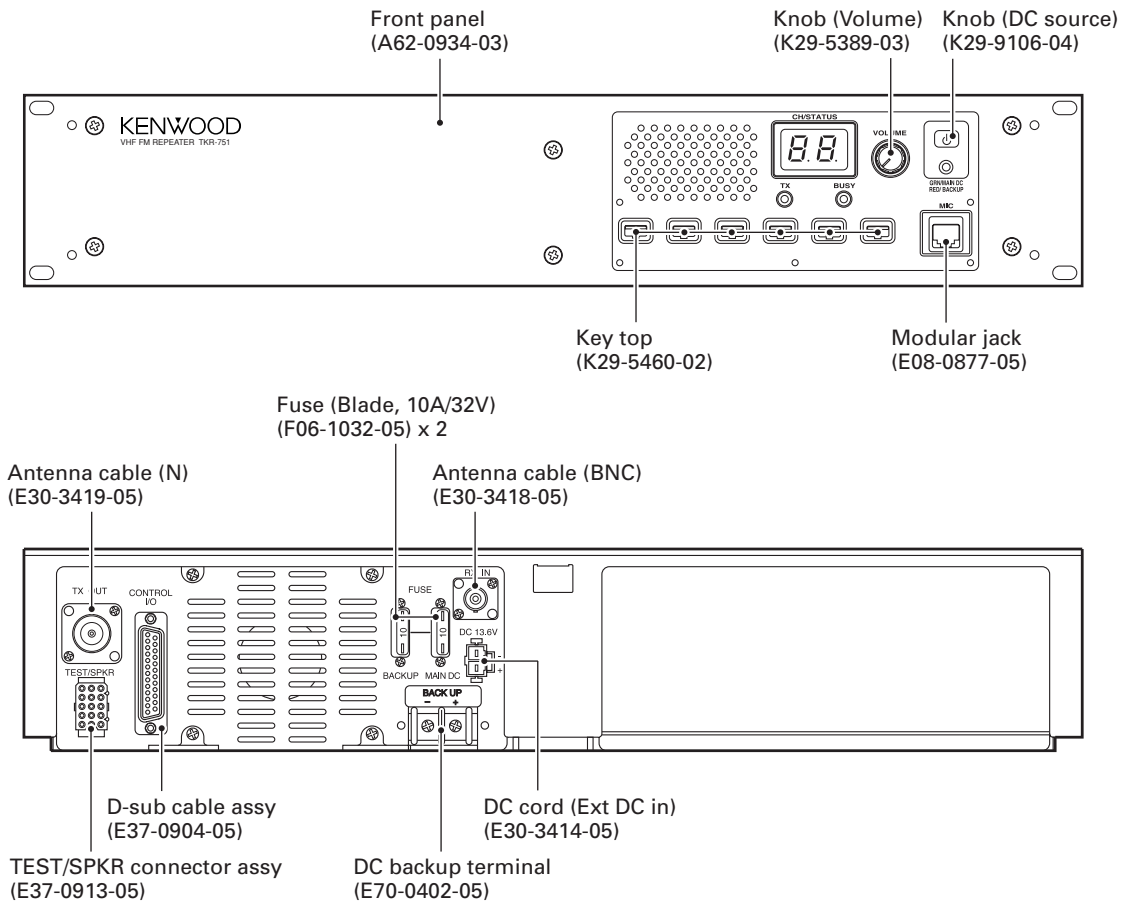
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This supplement to the service manual is available for products with serial number 60700001 or later.  
This service manual contains a parts list, schematic diagrams and PC board of a new final unit for the TKR-751.  
Since the adjustment procedure is the same as before, refer to the service manual (B51-8683-00) the TKR-751 for items not provided in this service manual.



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## MODIFICATION

### 3. Single Antenna

The TKR-751 can be used as a base station by sharing an external antenna connector for both transmitting and receiving data.

#### 3-1. Modification

1. Change the installation position of C92 and C160 of the final unit using a soldering iron.

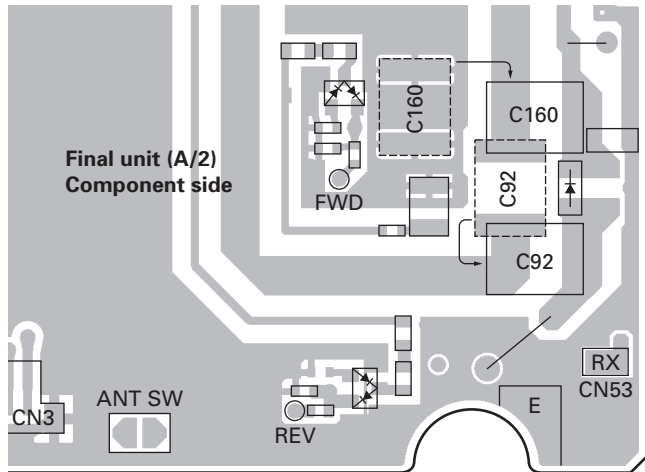


Fig. 3

2. Short-circuit the printed pattern of ANT SW near the CN3 connector by soldering.
3. Disconnect the pin connector from CN18 of the TX-RX unit.  
Remove the two screws used for securing the BNC connector on the back panel of the unit. Detach the antenna cable assy. (E30-3418-05)
4. Cut off the coaxial cable of the removed antenna cable assy on the BNC connector side.  
Strip off the insulation of the cut-off coaxial cable to prepare it to be soldered.

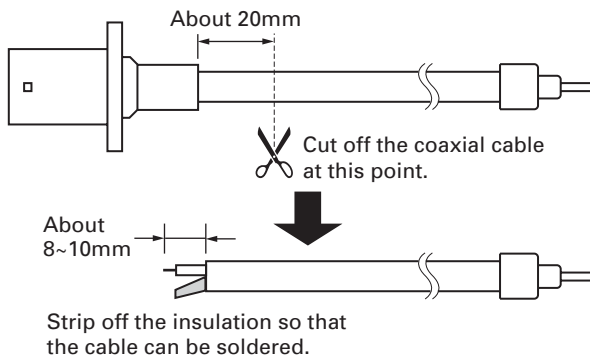


Fig. 4

#### 3-2. Connection

1. Solder the prepared coaxial cable to the final unit.
2. Connect the pin connector of the coaxial cable to CN18 of the TX-RX unit.

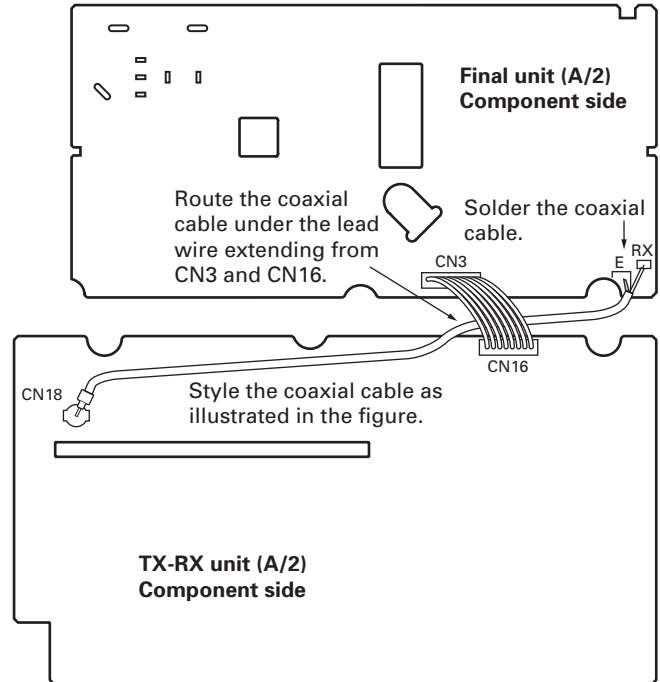


Fig. 5

#### 3-3. Setting the FPU

Set the channel to be used as "Simplex" using the FPU.

## PARTS LIST

\* New Parts.  $\Delta$  indicates safety critical components.

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

**L** : Scandinavia

**Y** : PX (Far East, Hawaii)

**Y** : AAFES (Europe)

**K** : USA

**T** : England

**X** : Australia

**P** : Canada

**E** : Europe

**M** : Other Areas

**TKR-751 (Y54-322X-XX)**  
**FINAL UNIT (X45-3732-71)**

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
<b>TKR-751</b>											
51	1B		G02-0894-04	EARTH SPRING (FINAL FET)		C106-109			CK73GB1H102K	CHIP C 1000PF K	
64	1B		J21-8467-04	MOUNTING HARDWARE (DRIVE FET)		C110			C92-0628-05	CHIP-TAN 10UF 10WV	
<b>FINAL UNIT (X45-3732-71)</b>											
C1,2			CK73GB1H102K	CHIP C 1000PF K		C112			C93-0560-05	CHIP C 10PF D	
C3			C90-2146-05	ELECTRO 100UF 25WV		C117			CM73F2H221J	CHIP C 220PF J	
C7			CK73GB1H102K	CHIP C 1000PF K		C118			CK73FB1E474K	CHIP C 0.47UF K	
C9,10			CK73GB1H102K	CHIP C 1000PF K		C136,137			CK73GB1H102K	CHIP C 1000PF K	
C11			CC73GCH1H470J	CHIP C 47PF J		C143			CC73FCH1H330J	CHIP C 33PF J	
C12			CK73GB1H102K	CHIP C 1000PF K		C145			CC73GCH1H220J	CHIP C 22PF J	
C13			CK73FB1E104K	CHIP C 0.10UF K		C146			CC73GCH1H101J	CHIP C 100PF J	
C14,15			CK73GB1H102K	CHIP C 1000PF K		C160			CM73F2H102J	CHIP C 1000PF J	
C16			CK73FB1H102K	CHIP C 1000PF K		C161,162			CM73F2H270J	CHIP C 27PF J	
C19			C93-0603-05	CHIP C 1000PF K		C163			C93-0569-05	CHIP C 56PF J	
C21			C93-0564-05	CHIP C 22PF J		C164			CM73F2H820J	CHIP C 82PF J	
C22			C93-0568-05	CHIP C 47PF J		C165			CK73FB1H102K	CHIP C 1000PF K	
C27			CK73FB1H102K	CHIP C 1000PF K		C166			CC73GCH1H220J	CHIP C 22PF J	
C28			CK73GB1H102K	CHIP C 1000PF K		C167			CC73GCH1H101J	CHIP C 100PF J	
C29			C93-0603-05	CHIP C 1000PF K		C168-171			CC73GCH1H220J	CHIP C 22PF J	
C30			C93-0573-05	CHIP C 120PF J		C172			CC73GCH1H101J	CHIP C 100PF J	
C31			C93-0569-05	CHIP C 56PF J		C173			C93-0563-05	CHIP C 18PF J	
C32			C93-0603-05	CHIP C 1000PF K		C174			CC73FCH1H270J	CHIP C 27PF J	
C35			CK73GB1H102K	CHIP C 1000PF K		CN1			E04-0154-05	PIN SOCKET	
C37			CK73FB1E474K	CHIP C 0.47UF K		CN3			E40-5632-05	PIN ASSY	
C39			CK73GB1H102K	CHIP C 1000PF K		CN4			E40-3246-05	PIN ASSY	
C42			CK73FB1H223K	CHIP C 0.022UF K		CN5			E40-5703-05	PIN ASSY	
C43,44			CK73GB1H102K	CHIP C 1000PF K		CN6-8			E23-0462-05	TERMINAL	
C46			C93-0603-05	CHIP C 1000PF K		F1			F53-0217-05	FUSE	
C49			C93-0564-05	CHIP C 22PF J		CN51,52			J13-0071-05	FUSE HOLDER	
C53			CK73FB1H473K	CHIP C 0.047UF K		L2			L40-4775-34	SMALL FIXED INDUCTOR (47NH)	
C54			CM73F2H102J	CHIP C 1000PF J		L3			L40-6875-34	SMALL FIXED INDUCTOR (68NH)	
C55			CK73GB1H103K	CHIP C 0.010UF K		L4,5			L34-4518-05	AIR-CORE COIL	
C57			C90-2143-05	ELECTRO 47UF 25WV		L6			L34-4520-05	AIR-CORE COIL	
C60			CK73GB1H102K	CHIP C 1000PF K		L7			L34-4523-05	AIR-CORE COIL	
C64			CK73GB1H102K	CHIP C 1000PF K		L8			L34-4518-05	AIR-CORE COIL	
C68			CK73GB1H102K	CHIP C 1000PF K		L9-11			L34-4520-05	AIR-CORE COIL	
C69,70			C93-0559-05	CHIP C 9.0PF D		L12			L34-4523-05	AIR-CORE COIL	
C71			C93-0563-05	CHIP C 18PF J		L16			L40-1575-92	SMALL FIXED INDUCTOR (15NH)	
C72			C93-0564-05	CHIP C 22PF J		L17			L40-1875-92	SMALL FIXED INDUCTOR (18NH)	
C75			C93-0566-05	CHIP C 33PF J		L19			L34-4667-05	AIR-CORE COIL	
C77			C93-0564-05	CHIP C 22PF J		L20			L34-4744-05	AIR-CORE COIL	
C80-87			CK73GB1H102K	CHIP C 1000PF K		R1			RK73FB2A100J	CHIP R 10 J 1/10W	
C89			CC73GCH1H101J	CHIP C 100PF J		R6			RK73GB1J220J	CHIP R 22 J 1/16W	
C90			CK73GB1H102K	CHIP C 1000PF K		R7			RK73GB1J822J	CHIP R 8.2K J 1/16W	
C91			C92-0777-05	ELECTRO 1000UF 25WV		R8			RK73FB2A100J	CHIP R 10 J 1/10W	
C92			CM73F2H102J	CHIP C 1000PF J		R9			RK73FB2A560J	CHIP R 56 J 1/10W	
C96			CC73FCH1H180J	CHIP C 18PF J		R10			RK73FB2A151J	CHIP R 150 J 1/10W	
C98			CK73GB1H102K	CHIP C 1000PF K		R11			RK73GB1J472J	CHIP R 4.7K J 1/16W	
C99			C90-4016-05	ELECTRO 47UF 16WV		R13			RK73GB1J471J	CHIP R 470 J 1/16W	
C103			CC73GCH1H101J	CHIP C 100PF J		R14			R92-1253-05	CHIP R 82 J 1/2W	
C105			CC73GCH1H101J	CHIP C 100PF J		R15			R92-1213-05	CHIP R 100 J 1/2W	
						R16			R92-1253-05	CHIP R 82 J 1/2W	
						R17			RK73FB2A154J	CHIP R 150K J 1/10W	
						R18			RK73EB2B101J	CHIP R 100 J 1/8W	
						R19			RK73FB2A104J	CHIP R 100K J 1/10W	
						R20,21			R92-1252-05	CHIP R 0 OHM J 1/16W	

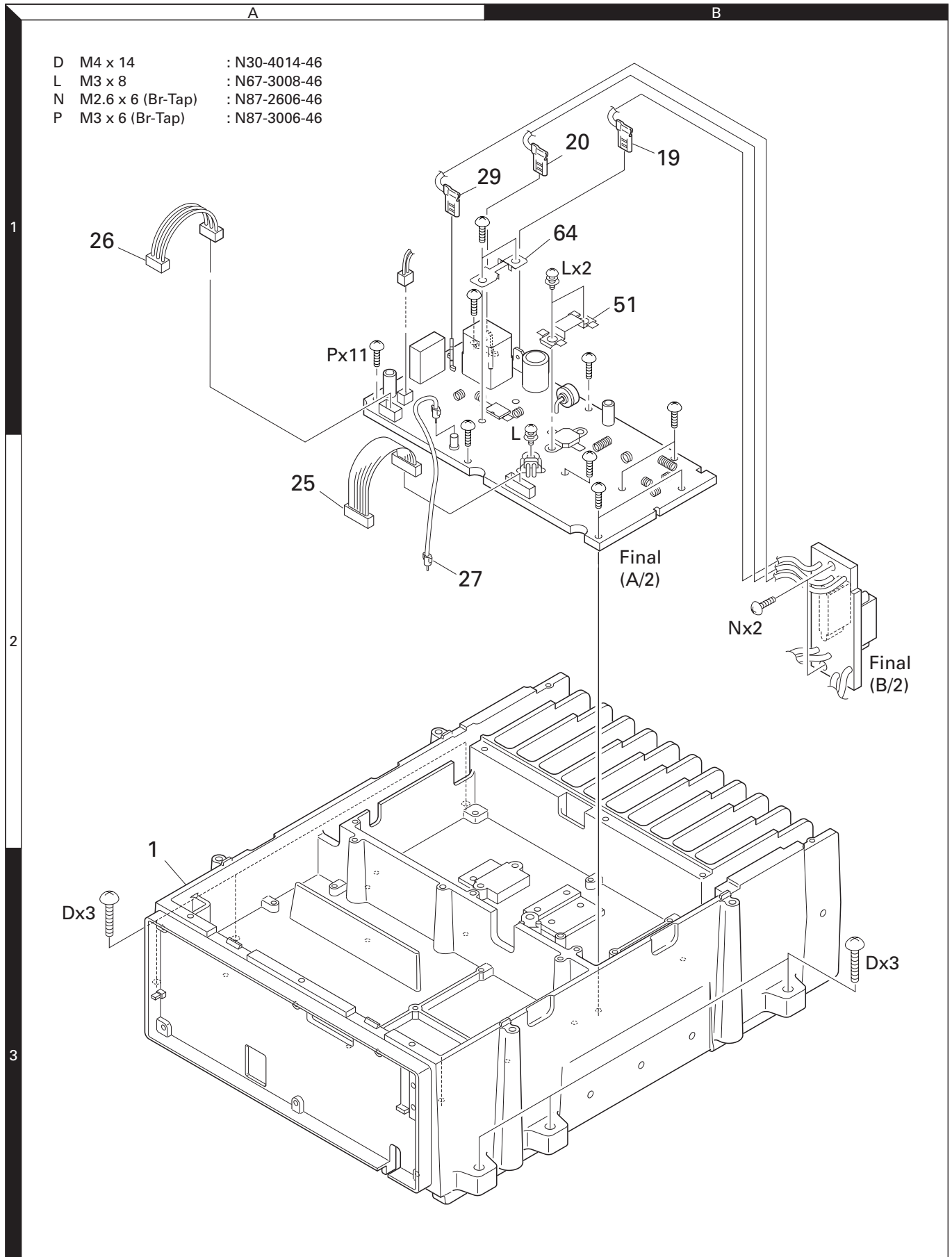
# TKR-751

## PARTS LIST

### FINAL UNIT (X45-3732-71)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R22			R92-2559-05	CHIP R 12 J 1/2W							
R23,24			RK73FB2A104J	CHIP R 100K J 1/10W							
R25			RK73GB1J473J	CHIP R 47K J 1/16W							
R26			RK73GB1J101J	CHIP R 100 J 1/16W							
R27			RK73GB1J471J	CHIP R 470 J 1/16W							
R28			RK73GB1J474J	CHIP R 470K J 1/16W							
R29			R92-1252-05	CHIP R 0 OHM J 1/16W							
R30			RK73GB1J683J	CHIP R 68K J 1/16W							
R31			RK73GB1J103J	CHIP R 10K J 1/16W							
R32			RK73GB1J104J	CHIP R 100K J 1/16W							
R34			R92-1252-05	CHIP R 0 OHM J 1/16W							
R35			RK73GB1J104J	CHIP R 100K J 1/16W							
R36			R92-1252-05	CHIP R 0 OHM J 1/16W							
R38			RK73GB1J333J	CHIP R 33K J 1/16W							
R40			R92-1204-05	CHIP R 100 J 1/4W							
R41			R92-1252-05	CHIP R 0 OHM J 1/16W							
R45			RK73GB1J101J	CHIP R 100 J 1/16W							
R48			RK73GB1J471J	CHIP R 470 J 1/16W							
R49			R92-1217-05	CHIP R 0 OHM							
R50			RK73EB2B222J	CHIP R 2.2K J 1/8W							
R52,53			RK73GB1J102J	CHIP R 1.0K J 1/16W							
R55			RK73GB1J102J	CHIP R 1.0K J 1/16W							
R56			R92-1317-05	CHIP R 18 J 1W							
R57			RK73GB1J224J	CHIP R 220K J 1/16W							
R60			R92-1252-05	CHIP R 0 OHM J 1/16W							
R61			R92-2687-05	RESISTOR 5.6 J 5.0W							
R62,63			R92-0670-05	CHIP R 0 OHM							
R64			R92-1252-05	CHIP R 0 OHM J 1/16W							
R70			R92-1205-05	CHIP R 120 J 1/4W							
R71			R92-0670-05	CHIP R 0 OHM							
R72			R92-1214-05	CHIP R 120 J 1/2W							
R73			R92-1252-05	CHIP R 0 OHM J 1/16W							
VR1			R12-6427-05	TRIMMING POT. (47K)							
K1			S76-0426-05	RELAY							
D1			1SS226	DIODE							
D2			02DZ6.2(Y)	ZENER DIODE							
D4,5			HSM88AS	DIODE							
D6			1SS355	DIODE							
D7			ZSA5A27	ZENER DIODE							
D8			RB051L-40	DIODE							
D9			MINISMDC050-02	VARISTOR							
D51,52			DSA3A1	DIODE							
D53			MA4PH633	DIODE							
D55,56			XB15A709	DIODE							
IC1			TA75W01FU	MOS-IC							
IC2			MAX6502UKP035	ANALOGUE IC							
IC3			NJM78L05UA	BI-POLAR IC							
Q2			2SC3356(R24)	TRANSISTOR							
Q3			2SC3357	TRANSISTOR							
Q4			PD55003S	DRIVE FET							
Q5			RD70HVF1-01	FINAL FET							
Q8			2SC4116(Y)	TRANSISTOR							
Q9			DTD123EK	DIGITAL TRANSISTOR							
TH1			PTH9M04BE471TS	THERMISTOR							

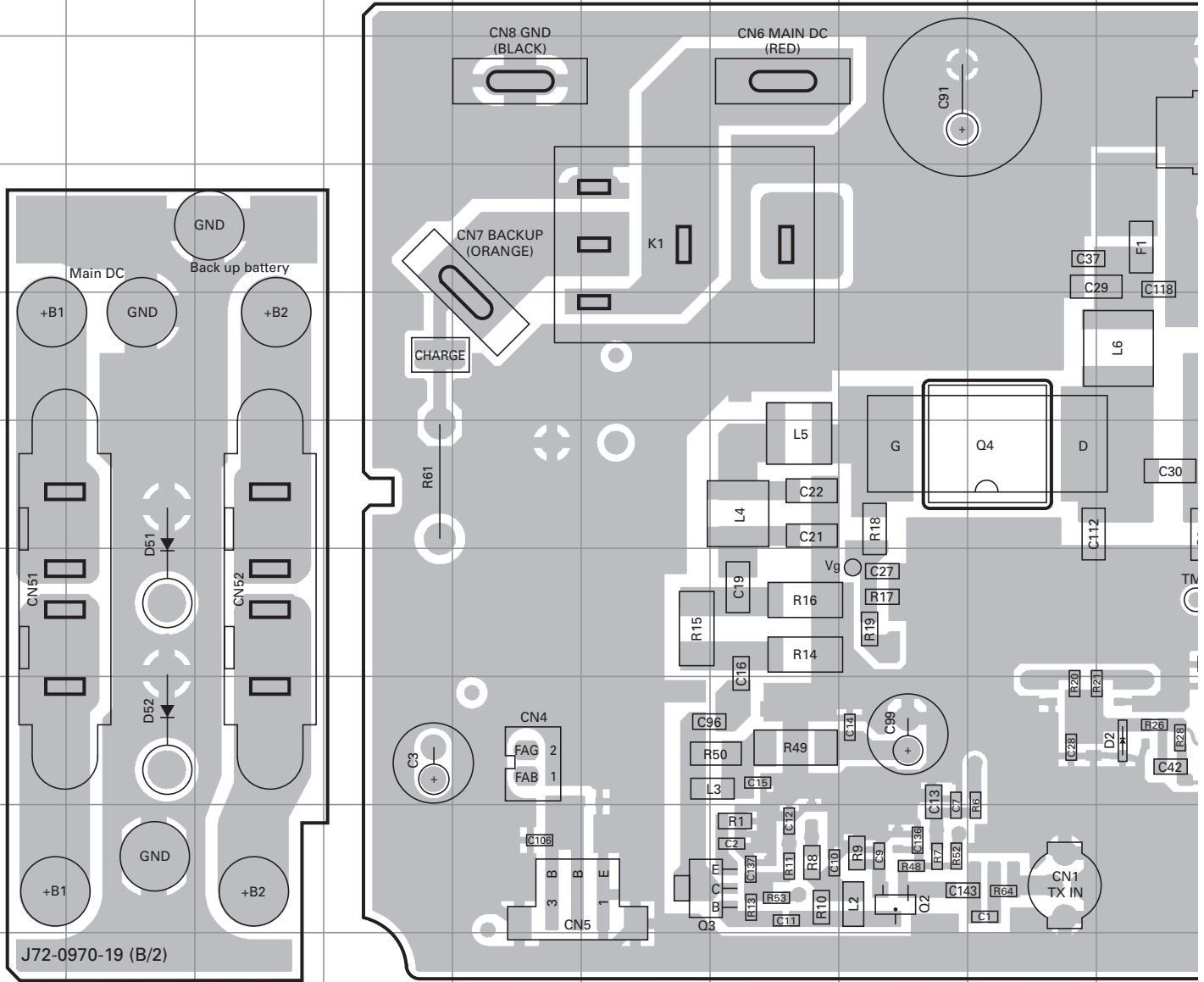
## EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

# TKR-751 PC BOARD

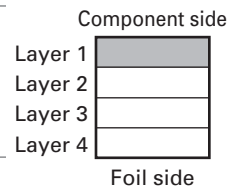
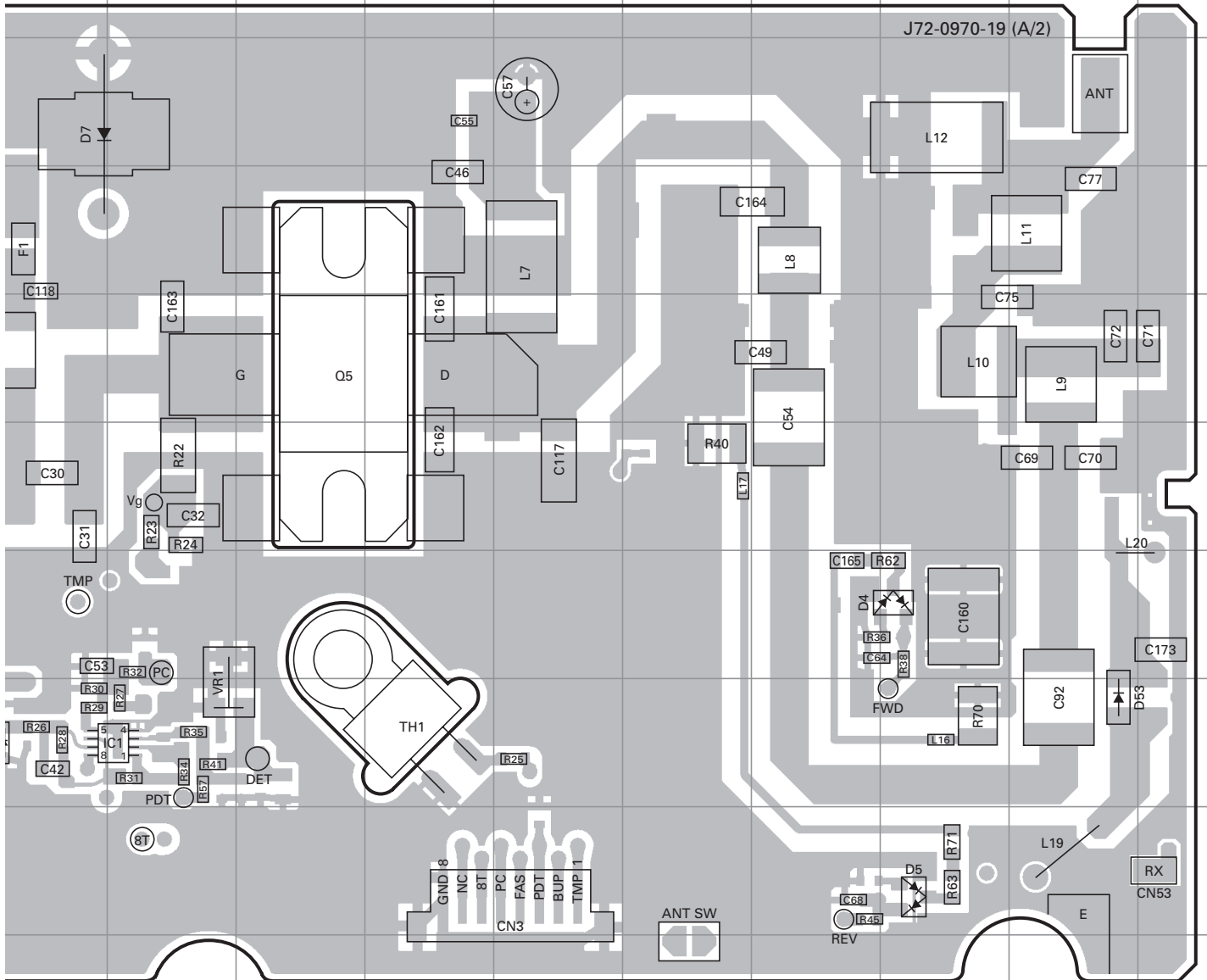
## FINAL UNIT (X45-3732-71) Component side view (J72-0970-19)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	8K	Q5	5L	D7	3J
Q2	9H	D2	8J	D51	7B
Q3	9F	D4	7Q	D52	8B
Q4	6I	D5	9Q	D53	8R

# PC BOARD TKR-751

## FINAL UNIT (X45-3732-71) Component side view (J72-0970-19)



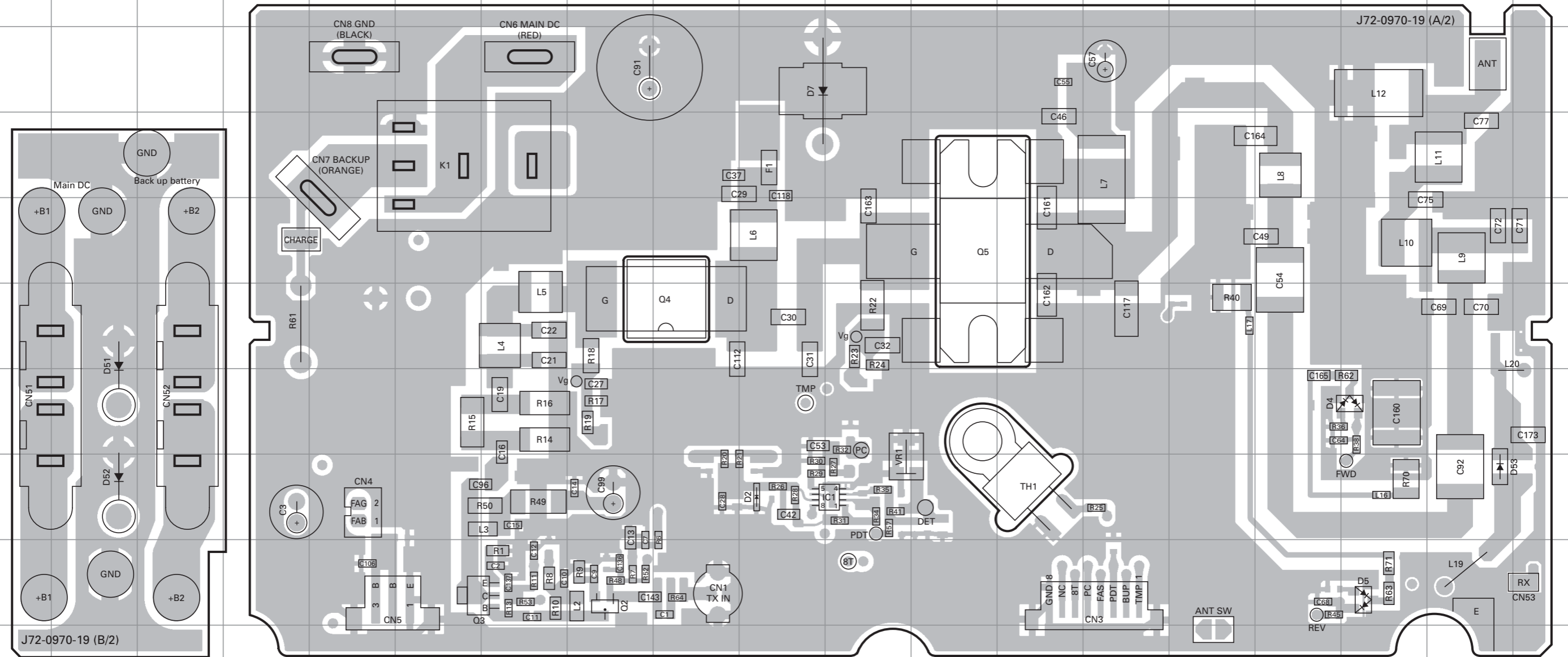


# TKR-751 PC BOARD

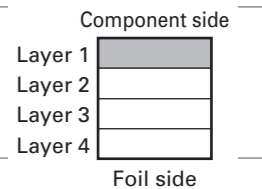
# PC BOARD TKR-751

FINAL UNIT (X45-3732-71) Component side view (J72-0970-19)

FINAL UNIT (X45-3732-71) Component side view (J72-0970-19)

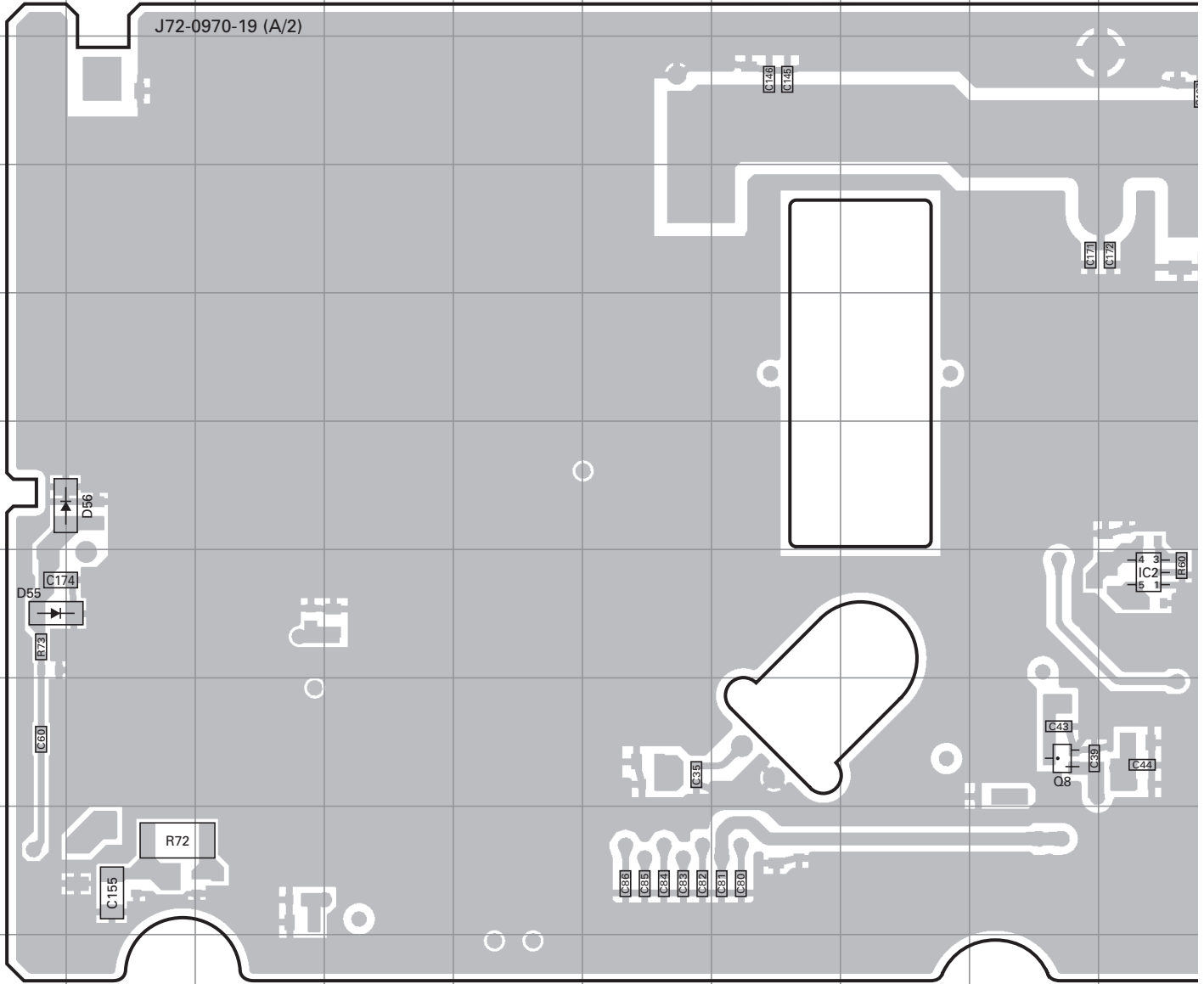


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	8K	Q5	5L	D7	3J
Q2	9H	D2	8J	D51	7B
Q3	9F	D4	7Q	D52	8B
Q4	6I	D5	9Q	D53	8R



# TKR-751 PC BOARD

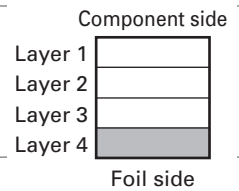
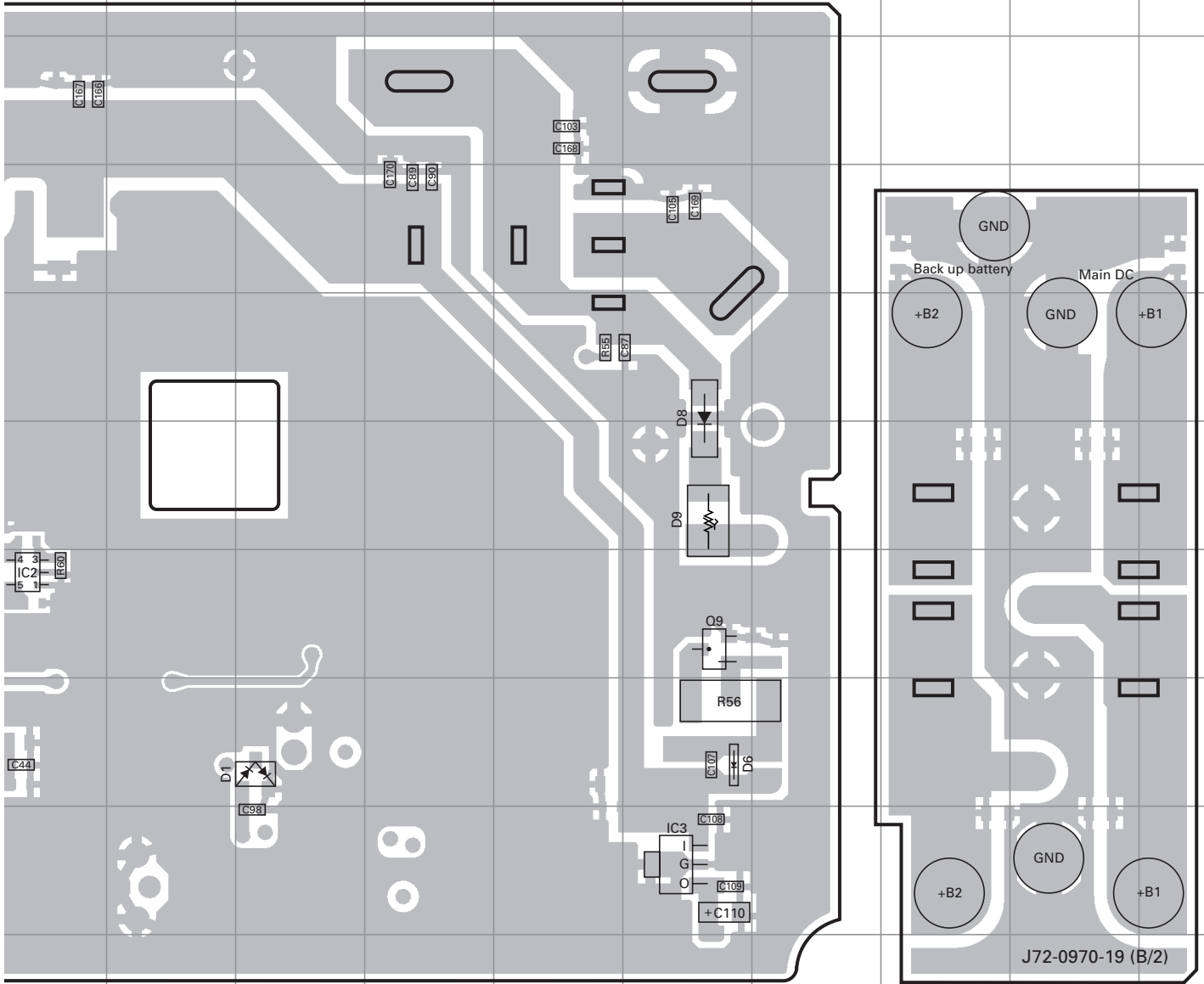
## FINAL UNIT (X45-3732-71) Foil side view (J72-0970-19)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	7J	D1	8L	D55	7A
IC3	9O	D6	8O	D56	6B
Q8	8I	D8	5O		
Q9	7O	D9	6O		

# PC BOARD TKR-751

FINAL UNIT (X45-3732-71) Foil side view (J72-0970-19)

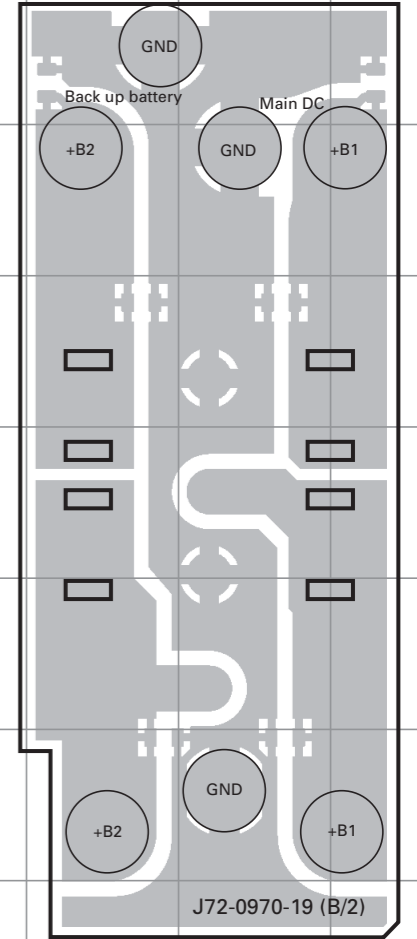
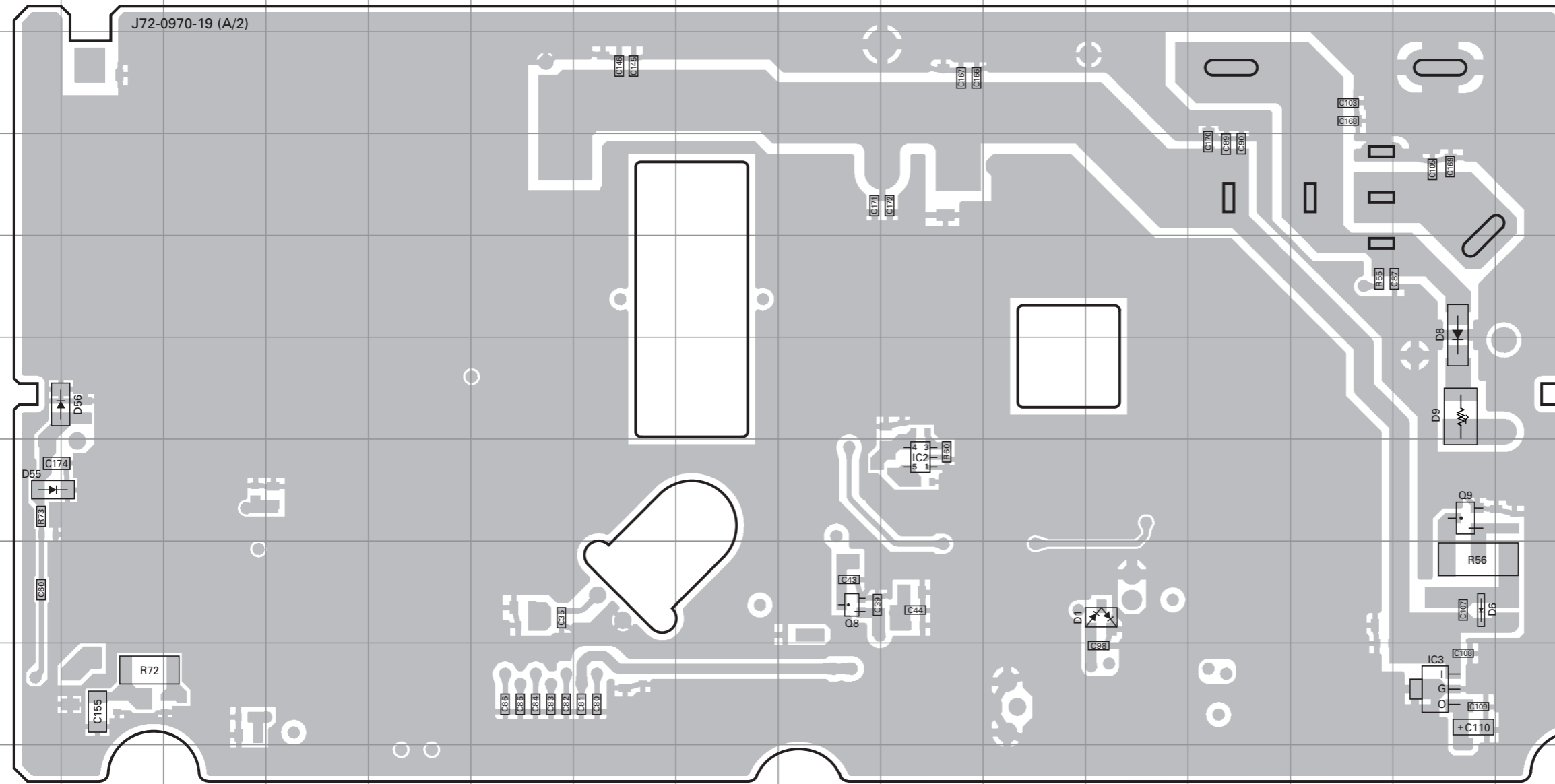


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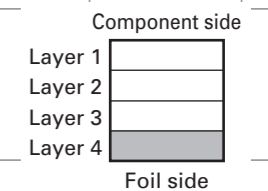
# PC BOARD TKR-751

FINAL UNIT (X45-3732-71) Foil side view (J72-0970-19)

FINAL UNIT (X45-3732-71) Foil side view (J72-0970-19)

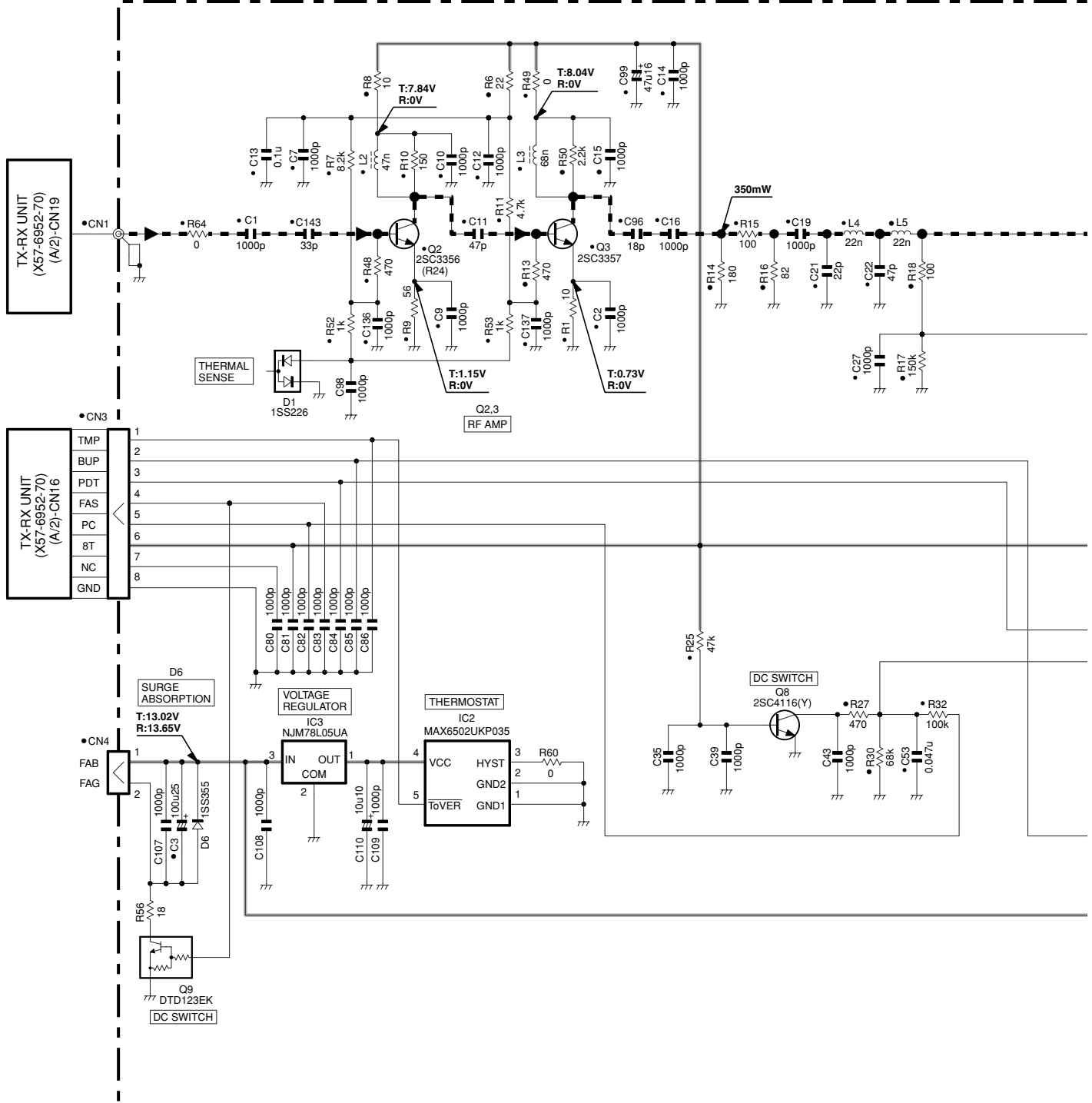


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	7J	D1	8L	D55	7A
IC3	9O	D6	8O	D56	6B
Q8	8I	D8	5O		
Q9	7O	D9	6O		



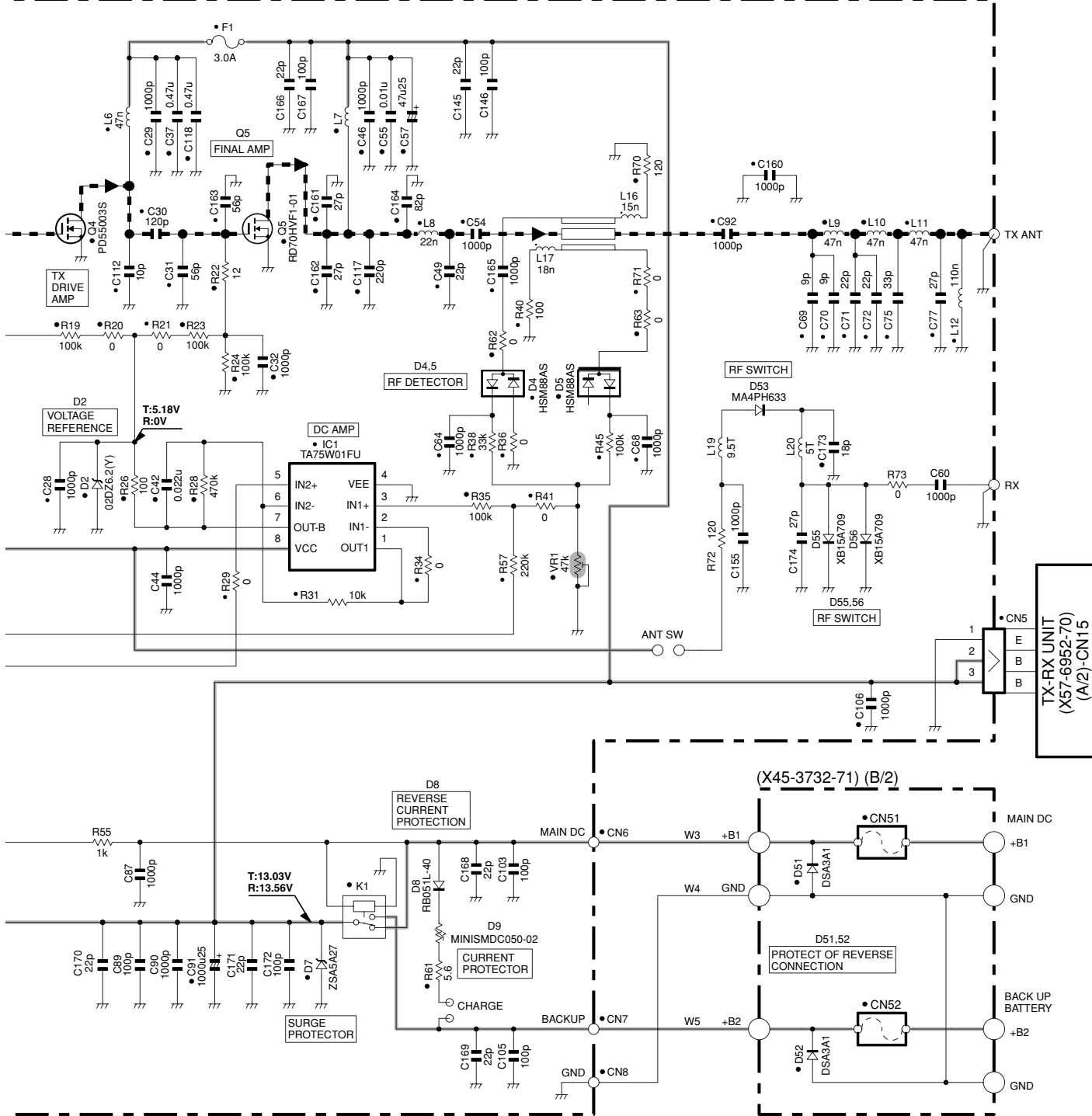
# TKR-751 SCHEMATIC DIAGRAM

FINAL UNIT (X45-3732-71) (A/2)



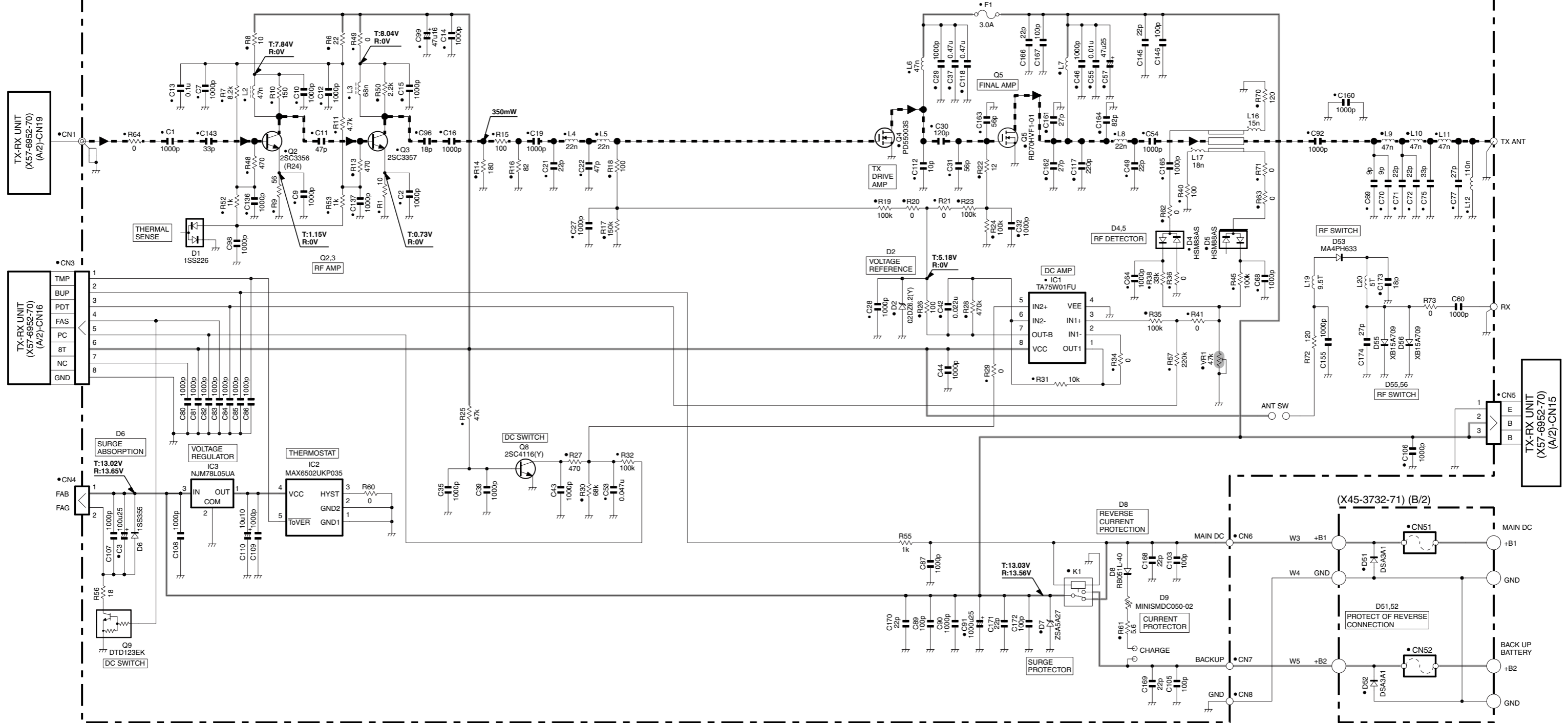
# SCHEMATIC DIAGRAM TKR-751

## FINAL UNIT (X45-3732-71) (A/2)

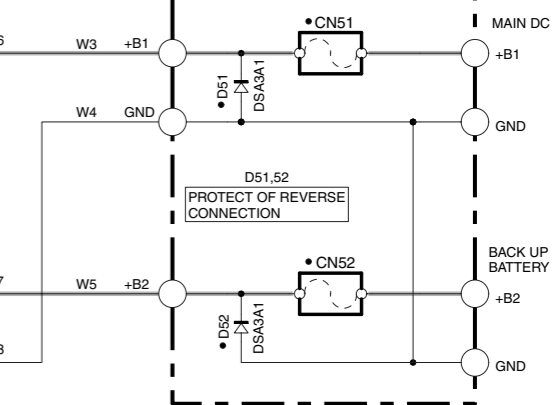


Note : The components marked with a dot (•) are parts of layer 1.

FINAL UNIT (X45-3732-71) (A/2)



(X45-3732-71) (B/2)



# TKR-751

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