

1994年 5月 9日 17時54分
TK-UK 殿

Kenwood Corp (Tokyo)

No. 2843 P. 1/3

KENWOOD

KENWOOD CORPORATION

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Cable: KENWOOD TOKYO

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Date : May 9, 1994

To : TK-UK
From : CES/Kenwood Corp.

Attn : Mr. David Wilkins

Re : TS-60S Mod.

In order to modify TS-60S(E) to receive from 40.000MHz,
please follow the modification below. But please note
that it is not recommended for the novice
operator/technician and require DVM or VTVM.

- 1) Open the case
- 2) Locate Digital unit, X46-3182-71
- 3) Remove or cut either side of the diode, D3 and D4
(See attached sheet for the locations)
- 4) Locate PLL unit, X50-3200-00
- 5) Connect the DC cable to the power supply
- 6) Reset microprocessor by depressing A=B key while
turning it on
- 7) Now tune the dial to 40.000 MHz
- 8) Connect VTVM or Digital DC volt-meter (DVM) to TP2
on PLL unit, X50-3200-00. (Please refer to the
attached sheet for the location.)
- 9) Turn TC1 to set the voltage of TP2 at 2.8VDC
(Never touch TC2!!! Because it has been adjusted at
factory)

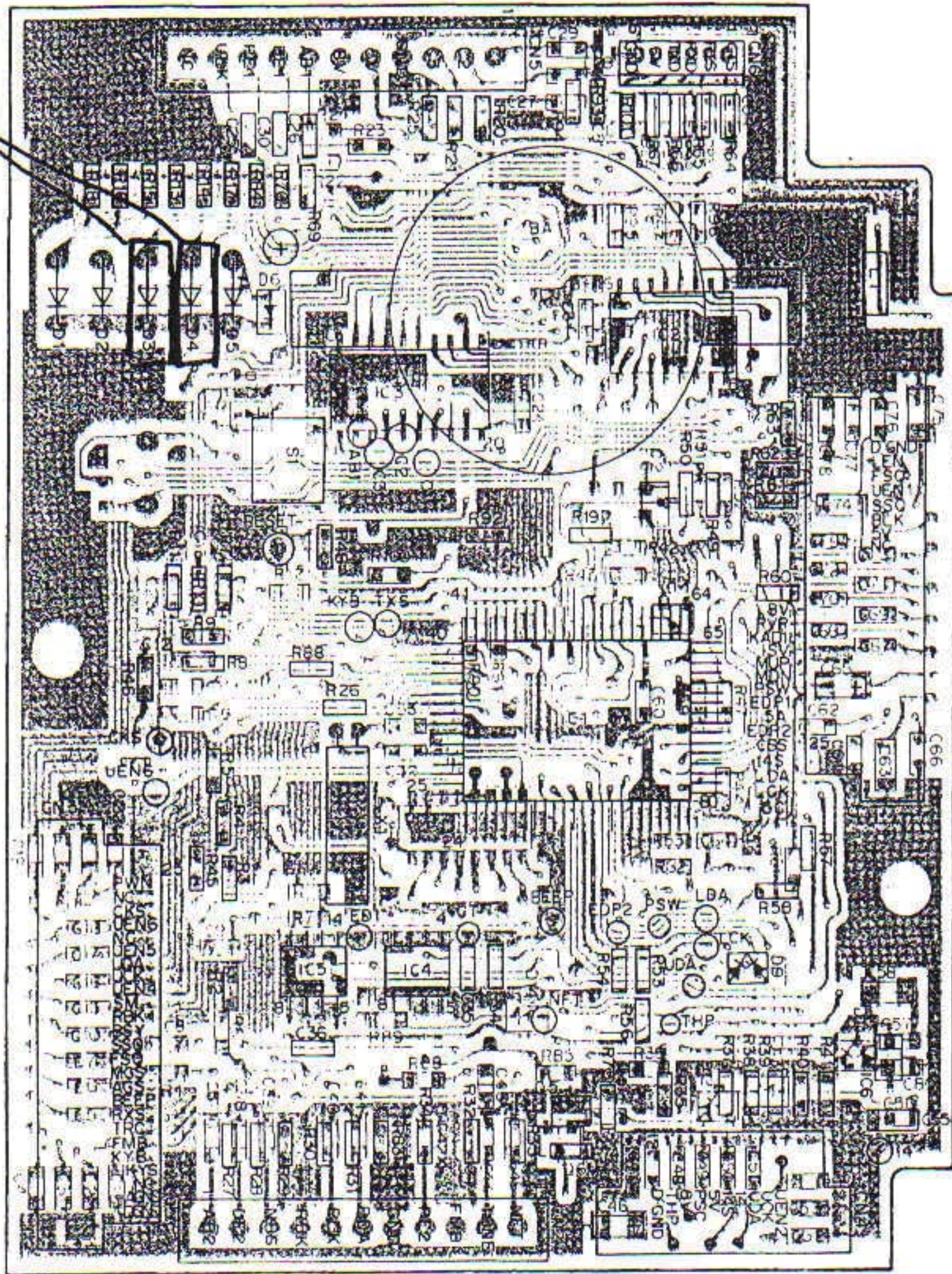
Now TS-60S can receive from 40.000MHz to 60.000MHz and
transmit 50.000MHz to 54.000MHz.

Best regards,
Hirofumi Oishi

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REMOVE or cut.

DIGITAL UNIT (X46-318X-XX) 0-11 : K 2-71 : E Foil side view



Component side
Foil side

TC74HC238AF

M37702M4A265FP

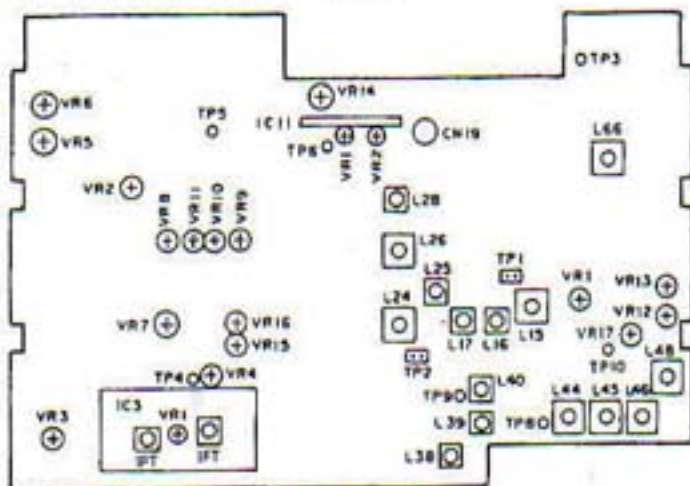


ADJUSTMENT

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Adjustment Points

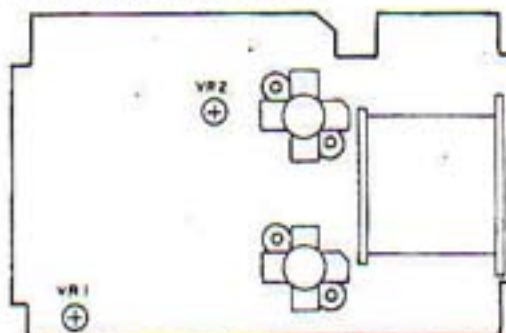
TX-RX UNIT (X57-4570-00) (A/4)



TX-RX UNIT (X57-4570-00) (A/4)

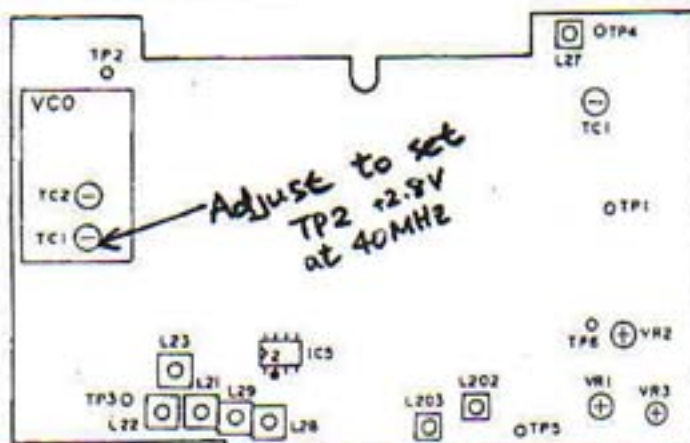
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|----------------------|------------------------------|
| VR1: MIX BAL | VR14: Hi power |
| VR2: FM meter | VR15: Low power |
| VR3: SSB squelch | VR16: Mid power |
| VR4: RFG | VR17: Spurious |
| VR5: Side tone | L15-17: MCF |
| VR6: Beep tone | L24-26, 28: IF AMP |
| VR7: MIC sensitivity | L38-40, 44-46, 48: TX AMP |
| VR8, 9: Suppression | L66: RX AMP |
| VR10: MIX BIAS (AM) | VR1 in IC3: SSB S-meter (S1) |
| VR11: MIX BIAS (CW) | IFT in IC3: IF AMP |
| VR12: MIX BIAS (MAX) | VR1 in IC11: SWR protection |
| VR13: Spurious | VR2 in IC11: ALC voltage |

FINAL UNIT (X45-3490-00)



FINAL UNIT (X45-3490-00)
VR1, 2: Final idling current

PLL UNIT (X50-3200-00)



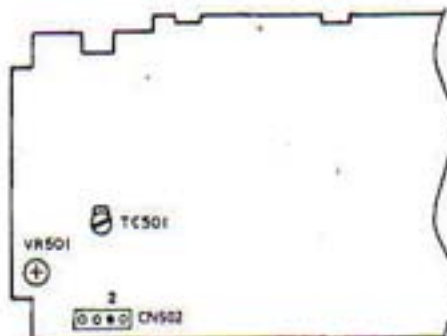
PLL UNIT (X50-3200-00)

- VR1: FM MIC sensitivity
VR2: FM MAX DEV
VR3: Sub tone
L21-23: 75.045-75.545MHz
L27: 10.695MHz
L28, 29: 80MHz
L202, 203: NB
TC1: Reference OSC

VCO (X58-4120-00)

TC1, 2: Lock voltage

TX-RX UNIT (X57-4570-00) (C/4)



TX-RX UNIT (X57-4570-00) (C/4)
VR501: Power frequency response
TC501: NULL