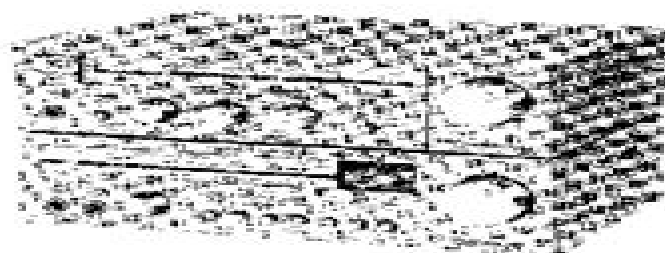


# **HITACHI** **SERVICE MANUAL**

**TY**
**No. 248 EGF**
**323**
**J-2**
**FT-J2  
HA-J2**

 for W. Germany,  
 France, U.K.,  
 Australia,  
 Switzerland &  
 Sweden


## CONTENTS

<b>SPECIFICATIONS</b> .....	<b>1</b>
<b>DISASSEMBLY</b> .....	<b>4</b>
<b>DIAL CORD STRINGING</b> .....	<b>6</b>
<b>ADJUSTMENT</b> .....	<b>8</b>
<b>CIRCUIT DIAGRAM</b> .....	<b>13, 18</b>
<b>PRINTED WIRING BOARD</b> .....	<b>14, 17</b>
<b>BLOCK DIAGRAM</b> .....	<b>18</b>
<b>REPLACEMENT PARTS LIST</b> .....	<b>20</b>
<b>KEY TO ILLUSTRATIONS</b> .....	<b>25</b>

## SAFETY PRECAUTIONS

- The following precautions should be observed when working:
1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi replacement parts. Especially critical parts in the circuit (such as capacitors and resistors) should be replaced with correct values.
  2. Critical parts are marked with "C" in the schematic diagram and circuit board diagram.
  3. When working on capacitors, be sure to discharge them with a resistor (100kΩ or more) before touching or soldering.

## SPECIFICATIONS

### FT-J2 (FM/MW/LW STEREO TUNER)

#### GENERAL SPECIFICATIONS

Semi-conductors	IC's: 7 1. 2SA1084C-21 PRT's: 2 LED's: 3 Diodes: 3 J's: 6H, 12C, 12F, 12G, 12H, 12J, 12K, 12L, 12M, 12N, 12P, 12Q, 12R, 12S, 12T, 12U, 12V, 12W, 12X, 12Y, 12Z, 12AA, 12AB, 12AC, 12AD, 12AE, 12AF, 12AG, 12AH, 12AI, 12AJ, 12AK, 12AL, 12AM, 12AN, 12AO, 12AP, 12AQ, 12AR, 12AS, 12AT, 12AU, 12AV, 12AW, 12AX, 12AY, 12AZ, 12BA, 12BB, 12BC, 12BD, 12BE, 12BF, 12BG, 12BH, 12BI, 12BJ, 12BK, 12BL, 12BM, 12BN, 12BO, 12BP, 12BQ, 12BR, 12BS, 12BT, 12BU, 12BV, 12BW, 12BX, 12BY, 12BZ, 12CA, 12CB, 12CC, 12CD, 12CE, 12CF, 12CG, 12CH, 12CI, 12CJ, 12CK, 12CL, 12CM, 12CN, 12CO, 12CP, 12CQ, 12CR, 12CS, 12CT, 12CU, 12CV, 12CW, 12CX, 12CY, 12CZ, 12DA, 12DB, 12DC, 12DD, 12DE, 12DF, 12DG, 12DH, 12DI, 12DJ, 12DK, 12DL, 12DM, 12DN, 12DO, 12DP, 12DQ, 12DR, 12DS, 12DT, 12DU, 12DV, 12DW, 12DX, 12DY, 12DZ, 12EA, 12EB, 12EC, 12ED, 12EE, 12EF, 12EG, 12EH, 12EI, 12EJ, 12EK, 12EL, 12EM, 12EN, 12EO, 12EP, 12EQ, 12ER, 12ES, 12ET, 12EU, 12EV, 12EW, 12EX, 12EY, 12EZ, 12FA, 12FB, 12FC, 12FD, 12FE, 12FF, 12FG, 12FH, 12FI, 12FJ, 12FK, 12FL, 12FM, 12FN, 12FO, 12FP, 12FQ, 12FR, 12FS, 12FT, 12FU, 12FV, 12FW, 12FX, 12FY, 12FZ, 12GA, 12GB, 12GC, 12GD, 12GE, 12GF, 12GG, 12GH, 12GI, 12GJ, 12GK, 12GL, 12GM, 12GN, 12GO, 12GP, 12GQ, 12GR, 12GS, 12GT, 12GU, 12GV, 12GW, 12GX, 12GY, 12GZ, 12HA, 12HB, 12HC, 12HD, 12HE, 12HF, 12HG, 12HH, 12HI, 12HJ, 12HK, 12HL, 12HM, 12HN, 12HO, 12HP, 12HQ, 12HR, 12HS, 12HT, 12HU, 12HV, 12HW, 12HX, 12HY, 12HZ, 12IA, 12IB, 12IC, 12ID, 12IE, 12IF, 12IG, 12IH, 12II, 12IJ, 12IK, 12IL, 12IM, 12IN, 12IO, 12IP, 12IQ, 12IR, 12IS, 12IT, 12IU, 12IV, 12IW, 12IX, 12IY, 12IZ, 12JA, 12JB, 12JC, 12JD, 12JE, 12JF, 12JG, 12JH, 12JI, 12JJ, 12JK, 12JL, 12JM, 12JN, 12JO, 12JP, 12JQ, 12JR, 12JS, 12JT, 12JU, 12JV, 12JW, 12JX, 12JY, 12JZ, 12KA, 12KB, 12KC, 12KD, 12KE, 12KF, 12KG, 12KH, 12KI, 12KJ, 12KK, 12KL, 12KM, 12KN, 12KO, 12KP, 12KQ, 12KR, 12KS, 12KT, 12KU, 12KV, 12KW, 12KX, 12KY, 12KZ, 12LA, 12LB, 12LC, 12LD, 12LE, 12LF, 12LG, 12LH, 12LI, 12LJ, 12LK, 12LL, 12LM, 12LN, 12LO, 12LP, 12LQ, 12LR, 12LS, 12LT, 12LU, 12LV, 12LW, 12LX, 12LY, 12LZ, 12MA, 12MB, 12MC, 12MD, 12ME, 12MF, 12MG, 12MH, 12MI, 12MJ, 12MK, 12ML, 12MN, 12MO, 12MP, 12MQ, 12MR, 12MS, 12MT, 12MU, 12MV, 12MW, 12MX, 12MY, 12MZ, 12NA, 12NB, 12NC, 12ND, 12NE, 12NF, 12NG, 12NH, 12NI, 12NJ, 12NK, 12NL, 12NM, 12NN, 12NO, 12NP, 12NQ, 12NR, 12NS, 12NT, 12NU, 12NV, 12NW, 12NX, 12NY, 12NZ, 12OA, 12OB, 12OC, 12OD, 12OE, 12OF, 12OG, 12OH, 12OI, 12OJ, 12OK, 12OL, 12OM, 12ON, 12OO, 12OP, 12OQ, 12OR, 12OS, 12OT, 12OU, 12OV, 12OW, 12OX, 12OY, 12OZ, 12PA, 12PB, 12PC, 12PD, 12PE, 12PF, 12PG, 12PH, 12PI, 12PJ, 12PK, 12PL, 12PM, 12PN, 12PO, 12PP, 12PQ, 12PR, 12PS, 12PT, 12PU, 12PV, 12PW, 12PX, 12PY, 12PZ, 12QA, 12QB, 12QC, 12QD, 12QE, 12QF, 12QG, 12QH, 12QI, 12QJ, 12QK, 12QL, 12QM, 12QN, 12QO, 12QP, 12QQ, 12QR, 12QS, 12QT, 12QU, 12QV, 12QW, 12QX, 12QY, 12QZ, 12RA, 12RB, 12RC, 12RD, 12RE, 12RF, 12RG, 12RH, 12RI, 12RJ, 12RK, 12RL, 12RM, 12RN, 12RO, 12RP, 12RQ, 12RR, 12RS, 12RT, 12RU, 12RV, 12RW, 12RX, 12RY, 12RZ, 12SA, 12SB, 12SC, 12SD, 12SE, 12SF, 12SG, 12SH, 12SI, 12SJ, 12SK, 12SL, 12SM, 12SN, 12SO, 12SP, 12SQ, 12SR, 12SS, 12ST, 12SU, 12SV, 12SW, 12SX, 12SY, 12SZ, 12TA, 12TB, 12TC, 12TD, 12TE, 12TF, 12TG, 12TH, 12TI, 12TJ, 12TK, 12TL, 12TM, 12TN, 12TO, 12TP, 12TQ, 12TR, 12TS, 12TT, 12TU, 12TV, 12TW, 12TX, 12TY, 12TZ, 12UA, 12UB, 12UC, 12UD, 12UE, 12UF, 12UG, 12UH, 12UI, 12UJ, 12UK, 12UL, 12UM, 12UN, 12UO, 12UP, 12UQ, 12UR, 12US, 12UT, 12UU, 12UV, 12UW, 12UX, 12UY, 12UZ, 12VA, 12VB, 12VC, 12VD, 12VE, 12VF, 12VG, 12VH, 12VI, 12VJ, 12VK, 12VL, 12VM, 12VN, 12VO, 12VP, 12VQ, 12VR, 12VS, 12VT, 12VU, 12VV, 12VW, 12VX, 12VY, 12VZ, 12WA, 12WB, 12WC, 12WD, 12WE, 12WF, 12WG, 12WH, 12WI, 12WJ, 12WK, 12WL, 12WM, 12WN, 12WO, 12WP, 12WQ, 12WR, 12WS, 12WT, 12WU, 12WV, 12WW, 12WX, 12WY, 12WZ, 12XA, 12XB, 12XC, 12XD, 12XE, 12XF, 12XG, 12XH, 12XI, 12XJ, 12XK, 12XL, 12XM, 12XN, 12XO, 12XP, 12XQ, 12XR, 12XS, 12XT, 12XU, 12XV, 12XW, 12XX, 12XY, 12XZ, 12YA, 12YB, 12YC, 12YD, 12YE, 12YF, 12YG, 12YH, 12YI, 12YJ, 12YK, 12YL, 12YM, 12YN, 12YO, 12YP, 12YQ, 12YR, 12YS, 12YT, 12YU, 12YV, 12YW, 12YX, 12YY, 12YZ, 12ZA, 12ZB, 12ZC, 12ZD, 12ZE, 12ZF, 12ZG, 12ZH, 12ZI, 12ZJ, 12ZK, 12ZL, 12ZM, 12ZN, 12ZO, 12ZP, 12ZQ, 12ZR, 12ZS, 12ZT, 12ZU, 12ZV, 12ZW, 12ZX, 12ZY, 12ZZ
Dimensions	120mm (W) x 120mm (H) x 120mm (D)
Weight	1.5 kg
<b>TUNER SECTION</b>	
Circuit system	FM/MW/LW 3 band superheterodyne
Frequency range	FM: 87.5 - 108 MHz MW: 531 - 1,602 kHz LW: 150 - 960 kHz FM: 1.0 μV (S/N 26 dB, 40 Hz, 70 dB) MW: 1.0 μV (S/N 26 dB, 400 Hz, 70 dB) LW: 1.0 μV (S/N 26 dB, 400 Hz, 70 dB) FM: 1.0 μV (S/N 26 dB, 400 Hz, 70 dB) MW: 1.0 μV (S/N 26 dB, 400 Hz, 70 dB) LW: 1.0 μV (S/N 26 dB, 400 Hz, 70 dB)
Sensitivity	
FM capture ratio	2 dB (1 - 10, 40 kHz, 20 dB)

FM selectivity	40 dB (S/N 26 dB, 40 Hz, 70 dB)
FM Harmonic distortion	0.3% (S/N 26 dB, 40 Hz, 70 dB)
FM stereo separation	40 dB (S/N 26 dB, 40 Hz, 70 dB)
FM Pilot suppression	35 dB (S/N 26 dB, 40 Hz, 70 dB)
AM suppression	40 dB (S/N 26 dB, 40 Hz, 70 dB)
Image rejection	40 dB (S/N 26 dB, 40 Hz, 70 dB)
Intermediate frequency	455 kHz
Antenna (Aerial)	FM: External antenna (Aerial) MW/LW: 400 kHz
FM frequency response	20 Hz - 15 kHz (±1.5 dB)
S/N (Signal to Noise Ratio)	FM: 26 dB (S/N 26 dB, 40 Hz, 70 dB) MW: 26 dB (S/N 26 dB, 40 Hz, 70 dB) LW: 26 dB (S/N 26 dB, 40 Hz, 70 dB)

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

## STEREO TUNER/STEREO AMPLIFIER

March 1981 TOYOKAWA WORKS

# Hitachi Ha J2 Manual

**JS Bruner**



## **Hitachi Ha J2 Manual:**

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In some sort of inundated with screens and the cacophony of instantaneous interaction, the profound energy and psychological resonance of verbal artistry frequently fade into obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, nestled within the musical pages of **Hitachi Ha J2 Manual**, a charming function of fictional splendor that pulses with organic feelings, lies an unforgettable trip waiting to be embarked upon. Published with a virtuoso wordsmith, that enchanting opus manuals readers on a psychological odyssey, gently revealing the latent potential and profound affect stuck within the elaborate web of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is key styles, dissect their fascinating writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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### **Table of Contents Hitachi Ha J2 Manual**

1. Understanding the eBook Hitachi Ha J2 Manual
  - The Rise of Digital Reading Hitachi Ha J2 Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Hitachi Ha J2 Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hitachi Ha J2 Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hitachi Ha J2 Manual

- Personalized Recommendations
- Hitachi Ha J2 Manual User Reviews and Ratings
- Hitachi Ha J2 Manual and Bestseller Lists
- 5. Accessing Hitachi Ha J2 Manual Free and Paid eBooks
  - Hitachi Ha J2 Manual Public Domain eBooks
  - Hitachi Ha J2 Manual eBook Subscription Services
  - Hitachi Ha J2 Manual Budget-Friendly Options
- 6. Navigating Hitachi Ha J2 Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Hitachi Ha J2 Manual Compatibility with Devices
  - Hitachi Ha J2 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hitachi Ha J2 Manual
  - Highlighting and Note-Taking Hitachi Ha J2 Manual
  - Interactive Elements Hitachi Ha J2 Manual
- 8. Staying Engaged with Hitachi Ha J2 Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hitachi Ha J2 Manual
- 9. Balancing eBooks and Physical Books Hitachi Ha J2 Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hitachi Ha J2 Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hitachi Ha J2 Manual
  - Setting Reading Goals Hitachi Ha J2 Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hitachi Ha J2 Manual

- Fact-Checking eBook Content of Hitachi Ha J2 Manual
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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