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INTRODUCTION

This service manual describes the latest service information for the IC-706MKIIIG HF/VHF/UHF ALL MODE TRANSCEIVER at the time of publication.

VERSION NO.	VERSION	SYMBOL
#02_#12	Europe	EUR
#03_#13	France	FRA
#04_#14	Spain	ESP
#05_#15	U.S.A.	USA
#06_#16	Other	OTK

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

DANGER

NEVER connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. This will run the transceiver.

DO NOT expose the transceiver to rain, snow or any liquids.
DO NOT reverse the polarities of the power supply when connecting the transceiver.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.



ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

1. 10-digit order numbers
2. Component part number and name
3. Equipment model name and unit name
4. Quantity required

<SAMPLE ORDER>
 111000000 S IC JPC270T IC-706MKIIIG MAIN UNIT 5 pieces
 891000000 Screw M2.6 x 5.2K IC-706MKIIIG Top cover 10 pieces

Addresses are provided on the inside back cover for your convenience.

REPAIR NOTES

1. Make sure a problem is internal before disassembling the transceiver.
2. **DO NOT** open the transceiver until the transceiver is disconnected from its power source.
3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool **MUST** be used for all adjustments.
5. **DO NOT** keep power ON for a long time when the transceiver is defective.
6. **DO NOT** transmit power into a signal generator or a sweep generator.
7. **ALWAYS** connect a 50 dB to 60 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.



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Mode : USB, LSB, CW, RTTY (FSK), AM, FM, WFM (WFM A receiver only) memory number CH. 3 - 13 - 2 transmitter circuits..... You are reading a free preview page from 49 to 69 not shown in this preview. CIA² may damage the PARTSBE PARTSBE DISCUSSE DEI PROCESSABLE INCLUDE the following four points when ordering the parts: 1. Component part number and name3.: 107 (99 Regular Borders, 6 Scanning Borders, 1 Call) Antenna connector: SO-239 2 (for HF / 50 MHz and 144/440 MHz) / 50 Power Requirements: 1 3.8 V DC 15% (negative earth) Stability frequency: less than 7 ppm for 1 minute, after power on. 3 - 63 - 4 logic circuits..... It must be an insufficient tuning tool used for all adjustments.5. Do not keep power on for long when the trans-meter is defective.6. Do not transmit power to a signal generator or insurance generator.7. Always connect a 50 dB to 60 dB attenuator between the transceiver and a deviation meter or an ANA-LYZER spectrum when using such test equipment.8. Read the test instructions No # 02, # 12 # 03 # 13 # 04, # 14 # 05, # 15 # 08, # 14 # 05, # 15 # 08, # 18 Versions - # 15 # 08, # 18 Versions Viewsection 3 Circuit Description3 - 1 Receiver 8 - 58 - 4 PA unit..... You are reading a free preview page from 77 to 86 are not shown in this preview. Numbers in the 10-digit order2. The full details are in our privacy policy, our GDPR privacy policy and our cookie policy. 8 - 38 - 3 HPP Card and Drivers..... Make sure an internal problem occurs before the Transceiver is disconnected.2. Do not open the transceiver until the A² transceiver is disconnected from its power source.3. Do not force any of the variable components. Equipment model name and drive name 44. Power 20 Areceive Standby 1.8 Amax. Top Support Instruction Manual / Guide IC-706 Document Instruction Manual Documents Note File Size 5.01 MB We use cookies to improve your online experience of this site. - More! than 50 dB Microphone connector: modular 8-pin jack (600) Key connector: 3-conductor 6.35 (D) mm (1/4") RTTY connector: 3-conductor 3.5 (D) mm (1/8") Receive System: SSB / CW / AM / WFM Dual SuperHeterodyNefm Triple SuperHeterodyne Intermediate frequencies: * FM or mode FM-N Mode only Admissibility : (Pre-Amp on) Note: modes SSB, CW and AM shall be measured at 10 DB S / N; Mode FM AT12 DB Sinad. * Except 44.5 MHz, 89 MHz. Sensitivity SQUENCH: (pre-AMP ON) SSB less than 5.6 VFM less than 0.32 V selectivity *: SSB, CW, RTTY more! than 2.4 KHz / 6 DBLEDS FIND OF 4.8 KHZ / 6 DBAM / FM-N more! than 8.0 kHz / 6 DBLEDS of 30 kHz / 40 dbfm more! than 12 kHz / 6 DBLEFT of 30 kHz / 6 dB * without a unit. filter is optional and has the average bandwidth selected. Afterwards©, of instability less than 1 ppm/hour. 4 - 24 - 3 Transmitter settings..... ServicemanualHF / VHF / UHF All Modes mode 99.3.11 7:31 PM Page 11INTRODUCTIONThis service manual describes the latest service information! for the IC-706MKIG HF/VHF/UHF ALL MODE TRANS-CEIVER at the time of publication.To improve quality, all electrical or mechanical parts and internal circuits are subject to change without notice or obligation.PERICOLONON never connect the transceiver to an AC outlet or DC power supply using more than 16 V.4 - 10SECTION 5 PARTS LIST 6 MECHANICAL PARTS ASSEMBLY SECTION 7 SEMICONDUCTOR INFORMATION YOUTS8 - 1 DISPLAY BOARD..... Turn them slowly and smoothly.4. DO NOT corrupt any circuit or electronic parts. 4 - 24 - 4 RECEIVER ADJUSTMENTS..... This will ruin the transmitter.DO NOT expose the transmitter to rain, snow or any liquid.DO NOT flip the wires power supply when connecting the transmitter.DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. You are reading a free preview Pages 21 to 33 are not shown in this preview. 8 - 78 - 5 UNITS PLL..... at 60 mm. 4 - 84 - 5 MODE ADJUSTMENT SET..... Current consumption : Max. Transmission 4 - 14 - 2 PLL ADJUSTMENTS..... 8 - 11SECTION 9 BLOCK DIAGRAM SECTION 10 VOLTAGE DIAGRAM GENERAL-Receiveing 0.030 200.000 MHz*430.000 470.000 MHz*Transmission 1.800 1.999 MHz*3.500 3.999 MHz*7.000 7.300 7.300 10.150 MHz14.000 14.350 MHz18.068 18.168 MHz21.000 21.450 MHz24.890 24.990 MHz28.000 29.700 MHz50.000 54.000 MHz*14.430.000 MHz**Depending on version. 3 - 8SECTION 4 REGULATION PROCEDURES4 - 1 PREPARATION BEFORE MAINTENANCE..... You are reading a free preview Pages 12 to 17 are not shown in this preview. 3 - 43 - 3 PLL CIRCUITS..... audio 2.0 A Usable temperature range: 10-60A°C Dimensions: 167 (L) 58 (A) 200 (P) mm (not included) 6916 (L) 2932 (A) 778 (P) inches Weight: CI-V connector 2.45 kg: 3.5 (d) mm (1/8") /8 ACC 2-conductor connector: 13-pin transmitter Output power: 1.850 MHz band SSB/CW/RTTY/FM 5100 WAM 240 W144 MHz band SSB/CW/RTTY/FM 550 WAM 220 W440 MHz band SSB/CW/RTTY/FM 220 WAM 28 W Modulation system: SSB Balanced modulationAM Low level modulationFM Variable reactance modulation Spurious emissions:Less than 47.5 MHz Less than 50 dB (typical) Greater than 47.5 MHz Less than 60 dB Carrier suppression: Greater than 40 dB Supp. sideband indes Considered at +25C (+77F). Ham Radio Search Engine click to go back to: You are reading a free preview Pages 7 to 8 are not shown in this preview. You are reading a free preview Pages 42 to 45 are not shown in this preview. 8 - 18 - 2 MAIN DETAILS..... BOARD.

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