

# Icom Ic 706 Service Repair Manual

## INTRODUCTION

This service manual describes the latest service information for the **IC-706MKIIG** 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	OTH

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 ruin 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>**

1110004050 S-IC  $\mu$ PC2703T IC-706MKIIG MAIN UNIT 5 pieces  
8810008020 Screw PH M2.6 x 5.2K IC-706MKIIG 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.

**icom ic 706 service repair manual** is an essential resource for anyone who owns or works with the Icom IC-706, a versatile and popular all-band transceiver. This compact radio is well-regarded for its portability and functionality, making it a favorite among amateur radio operators and professionals alike. However, like any electronic device, it can encounter issues that require repair and maintenance. Having access to a comprehensive service repair manual ensures that users can troubleshoot and resolve problems effectively, prolonging the lifespan of their equipment.

# What is the Icom IC-706?

The Icom IC-706 is a hybrid transceiver that operates on various bands, including HF, VHF, and UHF. It is particularly known for its compact design, making it suitable for mobile operations and portable use. The IC-706 offers a range of features, including:

- Multi-mode capability (SSB, CW, AM, FM)
- Built-in automatic antenna tuner
- Digital Signal Processing (DSP)
- Wide frequency coverage from 1.8 MHz to 440 MHz
- Easy-to-read LCD display

These features have contributed to the IC-706's popularity among both amateur radio enthusiasts and professional users. However, to ensure optimal performance, a service repair manual is invaluable.

## Importance of the Icom IC-706 Service Repair Manual

The service repair manual for the Icom IC-706 serves several critical purposes:

### Troubleshooting

When encountering issues with your transceiver, the manual provides detailed troubleshooting steps. It outlines common problems, possible causes, and solutions. This can save time and reduce frustration when diagnosing issues.

### Repair Guidance

Should you need to perform repairs, the manual includes schematics, parts lists, and step-by-step instructions for disassembling and reassembling the unit. Knowing how to navigate these processes is crucial for ensuring that repairs are done correctly.

### Preventive Maintenance

Regular maintenance is key to keeping your IC-706 in top shape. The manual often includes maintenance schedules and tips on cleaning, calibrating, and checking various components to prevent future issues.

# What's Included in the Icom IC-706 Service Repair Manual?

When you obtain an Icom IC-706 service repair manual, you can expect to find a wealth of information organized into several sections:

- **Specifications** - Detailed technical specifications of the device, including electrical characteristics and frequency coverage.
- **Block Diagrams** - Schematic diagrams that illustrate the internal structure and signal flow within the transceiver.
- **Service Procedures** - Step-by-step instructions for troubleshooting and repairing common problems.
- **Parts Lists** - Comprehensive lists of all components used in the IC-706, including part numbers and descriptions.
- **Schematic Diagrams** - Detailed circuit diagrams that show how individual components are connected, which is crucial for understanding the device's operation.
- **Alignment Instructions** - Guidelines for aligning the transceiver to ensure optimal performance and frequency accuracy.

## Common Issues and Solutions for the Icom IC-706

While the IC-706 is a reliable device, users may encounter several common issues. Here are a few along with their respective solutions:

### 1. Power Supply Problems

Symptoms: The radio does not power on or experiences intermittent power loss.

Solution: Check the power supply connections and ensure the voltage is within the specified range. Inspect the power cord for damage and replace it if necessary.

### 2. Poor Audio Quality

Symptoms: Distorted audio or low volume during transmission or reception.

Solution: Adjust the audio settings in the menu. If the problem persists, check the microphone and speaker connections, and inspect for any loose wires.

### 3. Frequency Drift

Symptoms: The radio does not stay on the set frequency, causing tuning issues.

Solution: Perform a frequency calibration using the instructions in the service manual. This may involve adjusting internal trimmer capacitors.

### 4. Display Issues

Symptoms: The LCD display is dim, flickering, or not functioning at all.

Solution: Inspect the display connection and replace any faulty components as indicated in the repair manual. You may also need to adjust the display brightness settings.

## Where to Obtain the Icom IC-706 Service Repair Manual

Finding a service repair manual for the Icom IC-706 can be done through several avenues:

- **Icom Official Website:** Check the Icom website for downloadable manuals or contact customer support for assistance.
- **Online Retailers:** Websites like Amazon or eBay may have physical or digital copies of the repair manual available for purchase.
- **Amateur Radio Forums:** Communities and forums dedicated to amateur radio often share resources, including service manuals. Websites like QRZ.com or eHam.net can be good places to start.
- **Local Electronics Repair Shops:** Some shops may have copies of service manuals or can provide guidance on obtaining one.

## Conclusion

Having access to the **icom ic 706 service repair manual** is vital for any IC-706 owner. It not only empowers users to troubleshoot and repair their equipment effectively but also helps maintain the transceiver's performance over time. With the right manual in hand, amateur radio operators can ensure that their Icom IC-706 continues to deliver exceptional performance, whether in the field or at home. Investing time in understanding the manual's contents can lead to a more enjoyable and trouble-free experience with this versatile radio.

# Frequently Asked Questions

## What is included in the Icom IC 706 service repair manual?

The Icom IC 706 service repair manual typically includes detailed schematics, troubleshooting guides, parts lists, and repair procedures for the radio, aiding technicians in diagnosing and fixing issues.

## Where can I find a downloadable version of the Icom IC 706 service repair manual?

You can find downloadable versions of the Icom IC 706 service repair manual on various electronics repair websites, forums, or directly from Icom's official website under their support or resources section.

## Is the Icom IC 706 service repair manual suitable for both the IC 706MKI and IC 706MKIIG models?

Yes, the Icom IC 706 service repair manual is generally applicable to both the IC 706MKI and IC 706MKIIG models, though it's important to verify any specific instructions or differences mentioned in the manual.

## How can I effectively use the Icom IC 706 service repair manual for troubleshooting?

To effectively use the Icom IC 706 service repair manual for troubleshooting, start by identifying the symptoms of the problem, then refer to the troubleshooting section for relevant tests and procedures, following the step-by-step guides provided.

## Are there any common issues documented in the Icom IC 706 service repair manual?

Yes, the Icom IC 706 service repair manual documents common issues such as power supply problems, display malfunctions, and audio issues, along with recommended fixes for each problem.

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## [Icom Ic 706 Service Repair Manual](#)

Apr 3, 2002 · Сообщение от RA0JV взял IC-F320 для APRS А что это за ...

### **CAT в Icom 7600 - Технический порт...**

Nov 21, 2009 · Проблем с установкой драйвера Icom нет. К разъемам ничего ...

### **DG2IAQ Modification Sheet ICOM IC-720...**

The famous ICOM IC-7200 is a great transceiver and I like it very much. As ...

### Icom X60 - Технический порт...

Jul 6, 2009 · ICOM отжигает по полной! Куча плат,это будущий ...

### ICOM IC-765 - Технический порт...

Aug 30, 2003 · Аппарат своих денег стоит и я бы считал его просто ...

### **Icom IC-F320 - Технический портал QRZ.RU**

Apr 3, 2002 · Сообщение от RA0JV взял IC-F320 для APRS А что это за аппарат? Можно поподробнее про него? Желательно с картинкой и с обоснованием причин выбора.

### CAT в Icom 7600 - Технический портал QRZ.RU

Nov 21, 2009 · Проблем с установкой драйвера Icom нет. К разъемам ничего лишнего не подключено Только кабель USB - USB B и со второго USB через переходник USB-COM и 2 ключа PTT и CW в ACC 1 и KEY.

### **DG2IAQ Modification Sheet ICOM IC-7200.doc**

The famous ICOM IC-7200 is a great transceiver and I like it very much. As announced in several forums I realized that it has some (few) weaknesses on the early models.

### **Icom X60 - Технический портал QRZ.RU**

Jul 6, 2009 · ICOM отжигает по полной! Куча плат,это будущий трансивер?

### *ICOM IC-765 - Технический портал QRZ.RU*

Aug 30, 2003 · Аппарат своих денег стоит и я бы считал его просто супер девайсом если бы не гемор с переменниками. Но в целом очень даже ничего. Я перед покупкой 940-го еще крутил 765-й, очень понравился местами но переменники убили ...

### **Ищу схемы к ICOM IC-F110/F111**

Aug 29, 2004 · Разыскиваются схемы на Icom IC-F110 и на Icom IC-F111, а также схемы программаторов и софт на эти станции. Если у кого есть - залейте, pls, на

### **Icom X60 - Страница 2**

Sep 24, 2011 · ICOM 7760 Стырили у Кенвуда второй дисплей. ))) Как я и писал, топа не будет, смысла нет. 7851 самодостаточен.

### *IC - 7760 - Технический портал QRZ.RU*

Jan 10, 2008 · То-то, я смотрю, HDMI уже лет 15 повсюду, во всех мыслимых устройствах, чуть ли не в умных унитазах установлен, при всех описанных вами ужасах, но именно ICOM не может потянуть такое. Теперь понятно.

### *IC-705 - Технический портал QRZ.RU*

Oct 4, 2016 · The Icom IC-705 is expected to be available around March 2020. No word yet on price, but the sub-US\$1000 mark shouldn't be too hard to hit. Последний раз редактировалось R1BET;

31.08.2019 в 10:40.

**УКВ: ICOM [Архив] - Форум QRZ.RU**

Программирование ICOM IC-F3 Ищу рус.мануал к ICOM IC-F3 Трансивер ICOM IC-901D Ищу схему и описание ICOM IC-2310 ICOM IC-E91 Ищу рус.описание ICOM IC-2330 IC-M3A и 2 м диапазон Помогите с ICOM T21A Как раскрыть ICOM T2A ?

"Find the ultimate Icom IC 706 service repair manual to troubleshoot and maintain your radio. Discover how to enhance your device's performance today!"

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