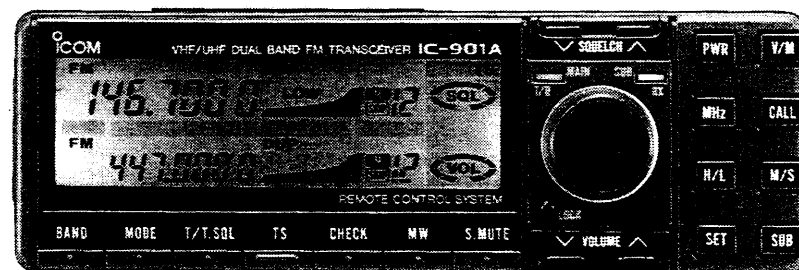


ICOM

INSTRUCTION MANUAL

VHF/UHF
DUAL BAND FM TRANSCEIVER

IC-901A IC-901E



Icom Inc.

FOREWORD

Thank you for choosing this Icom product.

The IC-901A/E is a 144 and 430 (440) MHz dual band mobile transceiver. Up to 6 band units including the SSB/CW unit and receiver unit can be connected and used with the IC-901A/E, systematically upgrading the degree of transceiver versatility with every new band unit added.

IMPORTANT

- (1) **READ THIS INSTRUCTION MANUAL CAREFULLY** before attempting operation. If you have any questions regarding the operation of the IC-901A/E, feel free to contact your nearest authorized Icom Dealer or Service Center.
- (2) **SAVE THIS INSTRUCTION MANUAL** — This instruction manual contains important safety and operating instructions for the IC-901A/E.

CAUTIONS

- (1) **NEVER** connect the transceiver to an AC outlet. This will ruin the transceiver.
- (2) **NEVER** connect more than 15 V DC power supplies or batteries to the transceiver. Check the source before connecting the power cable.
- (3) **NEVER** place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.
- (4) **NEVER** allow children to touch the transceiver.
- (5) **DO NOT** install the transceiver where hot or cold air blows directly on it.
- (6) **DO NOT** use or place the transceiver in areas with temperatures below -10°C ($+14^{\circ}\text{F}$) or over $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$) and in direct sunlight, such as on the dashboard.
- (7) **BE CAREFUL!** The heatsink may become hot when operating the transceiver continuously for long periods.

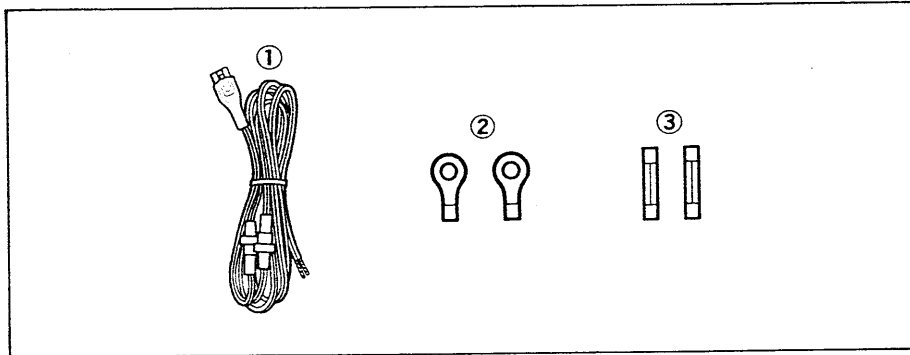
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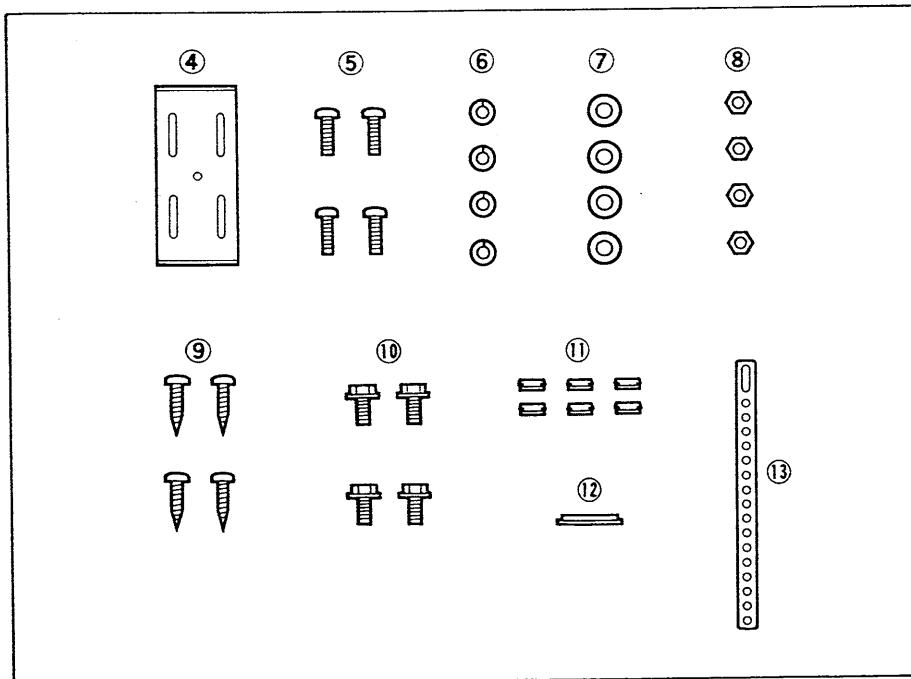
UNPACKING

Power cable connections



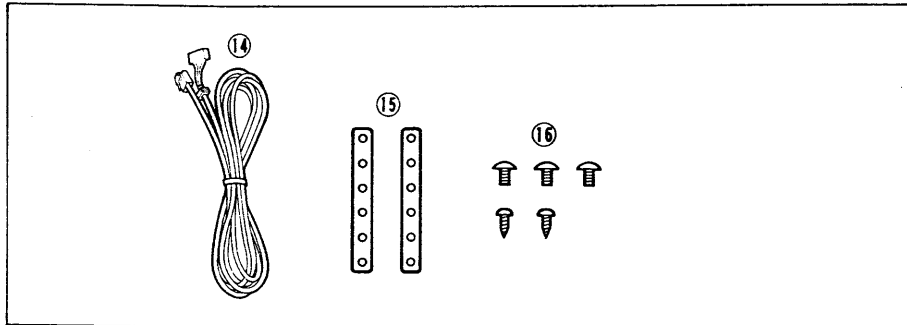
NO.	ITEM	DESCRIPTION
①	DC power cable	For applying DC power to the transceiver.
②	Battery terminals	Use terminals when connecting the DC power cable to a car battery.
③	Fuses (20 A)	Spare fuses for the DC power cable.

Transceiver mounting



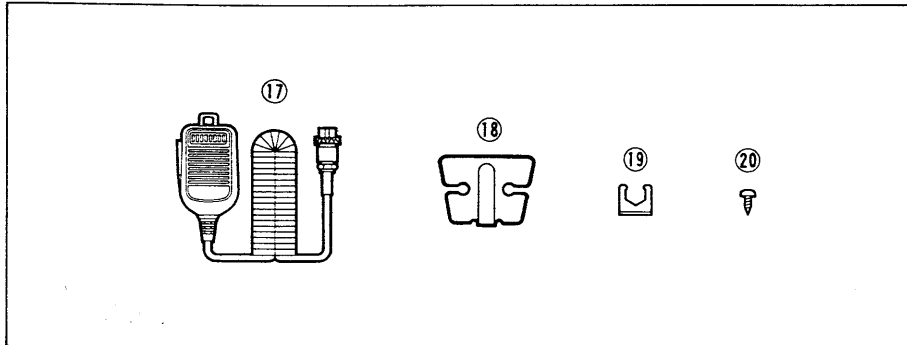
NO.	ITEM	DESCRIPTION
④	Mounting bracket	For mounting the transceiver.
⑤	Screws	
⑥	Spring washers	For installing the mounting bracket.
⑦	Flat washers	
⑧	Nuts	
⑨	Mounting screws	For mounting the transceiver.
⑩	Mounting bolts	For mounting the transceiver to the to the mounting bracket.
⑪	Rubber bushing (S)	Used to cover holes on the band unit top cover.
⑫	Rubber bushing (L)	
⑬	Mounting support bracket	For installing the transceiver.

Remote controller installation



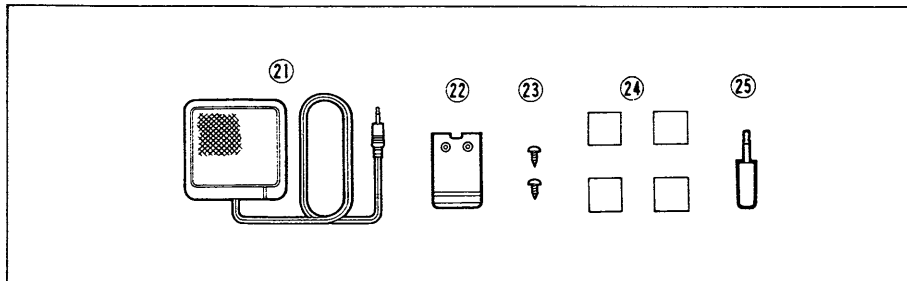
NO.	ITEM	DESCRIPTION
⑭	Remote control cable	Used when separating the remote controller and main body.
⑮	Remote controller support brackets	Used when mounting the remote controller to a vehicle dashboard, etc.
⑯	Screws	Used for attaching the brackets in item ⑮ above.

Microphone



NO.	ITEM	DESCRIPTION
⑰	Microphone	U.S.A. version : HM-14 Australia version : HM-12 Europe version : HM-15
⑱	Microphone hanger	
⑲	Mic connector holder	Used for holding the mic connector.
⑳	Screw	Used for attaching the mic connector holder in item ⑲ above.

Speaker



NO.	ITEM	DESCRIPTION
⑳	Speaker (SP-12)	
㉑	Metal grip	Used for mounting the SP-12 to a car sun visor, etc.
㉒	Screws	For attaching the speaker.
㉓	Double-sided tape	For attaching the speaker.
㉔	Speaker plug	For extra speaker connections.

System upgrading

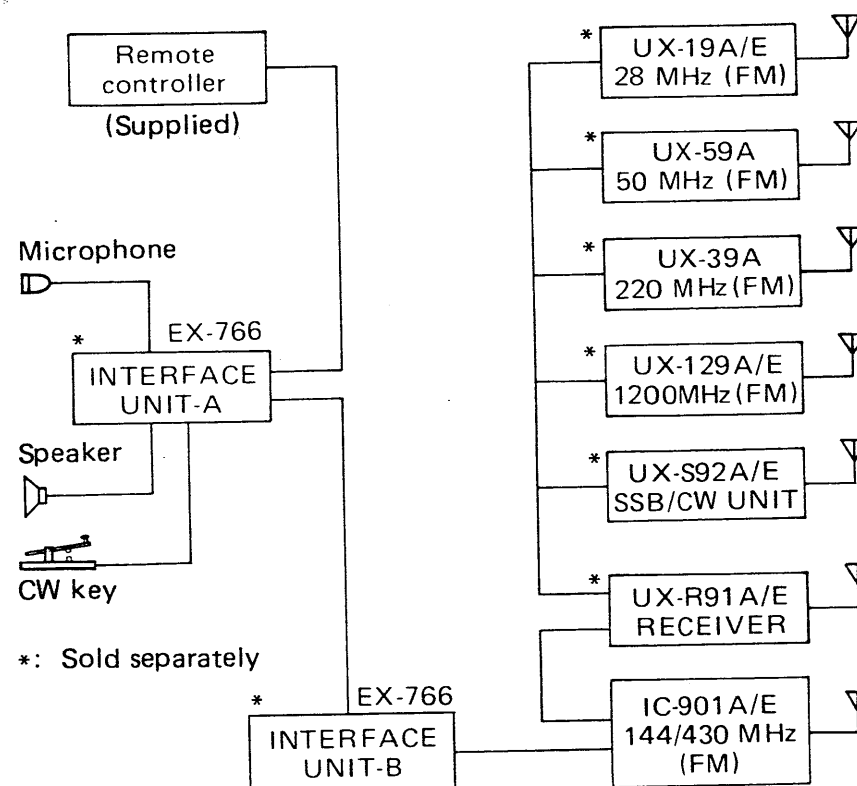
The IC-901A/E is a dual band transceiver for 144 and 430 (440) MHz bands. By installing optional units to the transceiver, the transceiver will have the following additional capability and features:

- Remote control operation
- 28 MHz operation for Tx and Rx
- 50 MHz operation for Tx and Rx
- 220 MHz operation for Tx and Rx
- 1200 MHz operation for Tx and Rx
- 144 MHz SSB and CW operation
- MW to UHF receiving

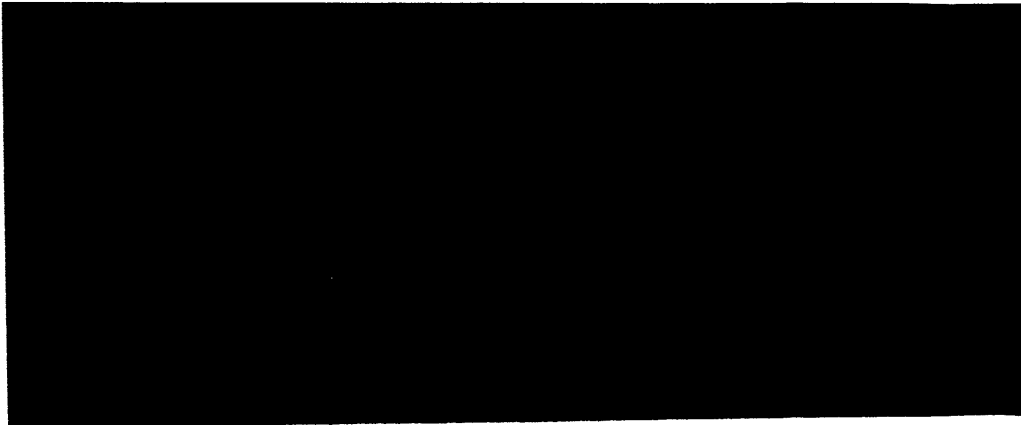
Up to 6 separate band units can be connected and used with the IC-901A/E, systematically upgrading the degree of transceiver versatility with every new band unit added. 4 different system settings are possible. See p. 4 for example settings.

Full option multi-bander system

The following diagram shows the multi-bander system with all optional band units. The IC-901A/E system covers transmitting and receiving between 28 ~ 1200 MHz. Especially the system can operate in FM, LSB, USB and CW modes on the 144 MHz band. In addition, the system functions as a general coverage receiver from the MW to the UHF band.



Count on us!



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