

KENWOOD

TK-705D
TK-805D

VHF/UHF FM TRANSCEIVER
INSTRUCTION MANUAL

EMETTEUR-RECEPTEUR VHF/UHF FM
MODE D'EMPLOI

TRANSCPTOR VHF/UHF FM
MANUAL DE INSTRUCCIONES

KENWOOD CORPORATION

© PRINTED IN JAPAN B62-0129-20(K, M)(T)
92/12 11 10 9 8 7 6 5 4 3 2 1 91/12

VHF / UHF FM TRANSCEIVER
INSTRUCTION MANUAL

ENGLISH

CONTENTS

1. INTRODUCTION	4
2. SAFETY	5
3. UNPACKING AND CHECKING EQUIPMENT	5
4. INSTALLATION AND CONNECTION	
4-1. INSTALLATION EQUIPMENT	7
4-2. PLANNING THE INSTALLATION	7
4-3. POWER CABLE	8
4-4. INSTALLING THE RADIO	9
4-5. MOBILE MICROPHONE	9
5. OPERATION	
5-1. CONTROLS AND FUNCTIONS	10
5-2. RECEIVE	14
5-2-1. Scan and PRIORITY Channel	14
5-2-2. DRS(Digital Recording System)	14
5-2-3. Two Tone System	15
5-2-4. DTMF System	15
5-3. TRANSMIT	15
6. MEMO	16

1. INTRODUCTION

Your two-way radio has been designed to provide dependable communications, and is simple and easy to operate.

All KENWOOD radios incorporate the latest in advanced technology, providing communications that can be counted on to keep vehicles and personal operating at peak efficiency.

This instruction manual covers the following radios.

TK-705D : VHF FM TRANSCEIVER

TK-805D : UHF FM TRANSCEIVER

When there are differences in operation separate instructions will be given for each model.

IMPORTANT

GOVERNMENT LAW PROHIBITS THE OPERATION OF UNLICENSED RADIO TRANSMITTERS WITHIN THE TERRITORIES UNDER GOVERNMENT CONTROL. ILLEGAL OPERATION IS PUNISHABLE BY FINE OR IMPRISONMENT OR BOTH. REFER SERVICE TO A QUALIFIED LICENSED OR CERTIFIED TECHNICIAN ONLY.

Notice to the user:

One or more of the following statements may be applicable to this equipment.

FCC WARNING

This equipment generates or uses radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Information to the digital device user required by the FCC:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can generate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer for technical assistance.

2. SAFETY

It is important the operator understands and is aware of hazards common to the operation of any two-way radio.

WARNING

1. EXPLOSIVE ATMOSPHERES (GASES, DUST, FUMES, etc.)

Turn off and do not operate your radio while taking on fuel, or while parked in gasoline service stations. Do not carry spare fuel containers in the trunk of your vehicle if your radio is mounted in the trunk area.

2. INJURY FROM RADIO FREQUENCY TRANSMISSIONS

Do not operate your radio when anyone is touching the antenna, or when anyone is standing within two to three feet of your antenna, to avoid the possibility of radio frequency burns or related physical injury.

3. DYNAMITE BLASTING CAPS

Dynamite blasting caps may explode by the operation of two-way radio transmitters, if such operation occurs within 500 feet of the blasting caps. Turn off and do not operate your radio when in an area where blasting is in progress, or where "TURN OFF TWO-WAY RADIO" signs have been posted. If you are transporting blasting caps in your vehicle, make certain they are carried in a closed metal box having a padded interior. Do not transmit during the time that caps are being placed into or removed from this container.

3. UNPACKING AND CHECKING EQUIPMENT

NOTE

The following instructions are for use by your KENWOOD dealer, either an authorized KENWOOD service facility, or the factory only.

Carefully unpack the two-way radio. It is recommended that you identify the items listed and check them off before discarding the packing material. If any damage has occurred to the equipment during shipment, file a claim with the carrier immediately.

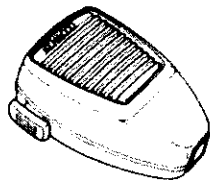
EQUIPMENT

Two-way radio		1 ea.
① Microphone (K type only)	T91-0374-18	1 ea.
or		
① Microphone with cable (M type only)	T91-0509-05	1 ea.
② Microphone cable (K type only)	E30-2089-08	1 ea.
③ Microphone hanger	J19-1376-15	1 ea.
④ Power cable ass'y	E30-2076-05	1 ea.
⑤ Spare fuse (10 A)	F05-1031-05	1 ea.
⑥ Cable with connector	E30-2036-05	1 ea.
⑦ Mounting bracket	J29-0441-03	1 ea.

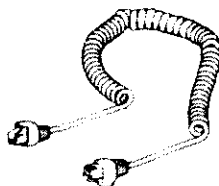
Mounting hardware

⑧ Hex. bolt		7 ea.
⑨ Tapping screw (Large)	N09-0335-05	4 ea.
⑩ Tapping screw (Small)	N46-4016-46	3 ea.
⑪ Spring washer	N16-0050-46	4 ea.
⑫ Flat washer	N15-1050-46	4 ea.
Instruction manual	B62-0129-XX	1 copy
Warranty card (K type only)		1 ea.

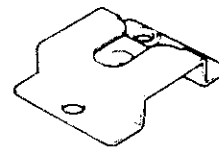
①



②



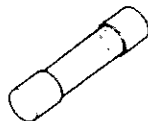
③



④



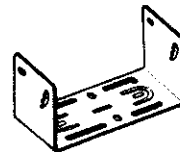
⑤



⑥



⑦



⑧



⑨



⑩



⑪



⑫



4. INSTALLATION AND CONNECTION

WARNING

Interference with vehicular electronics - Electronic fuel injection systems, electronic antiskid braking systems, electronic cruise control systems, etc., are typical of the types of electronic devices which may be prone to malfunction due to the lack of protection from radio frequency energy which is present when transmitting. If the vehicle contains such equipment, consult the dealer for the make of vehicle and enlist his aid in determining if such electronic circuits will perform normally when the radio is transmitting.

NOTE

The following instructions are for use by your KENWOOD dealer; either an authorized KENWOOD service facility, or the factory only.

4-1. INSTALLATION EQUIPMENT

CAUTION

Be careful to avoid damaging some vital part of the vehicle when drilling mounting holes. Always check to see how far the mounting screws will extend below the mounting surface before installing.

The following tools are required for installing this two-way radio.

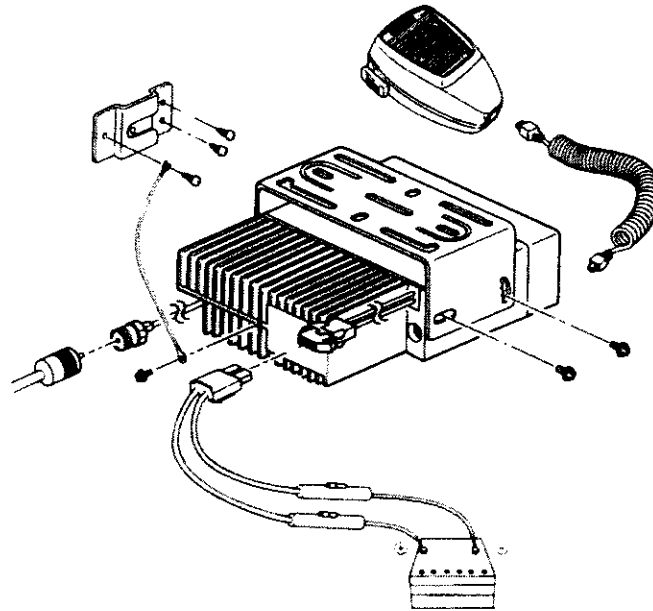
- 1/4" or larger electric drill.
- Drills and circle cutters. (Sizes listed below.)

DRILL SIZES

- φ 4.2 mm for φ 5×16 self-tapping screws.(Large)
- φ 3.2 mm for φ 4×16 self-tapping screws.(Small)

4-2. PLANNING THE INSTALLATION

The accompanying illustrations should help you in planning your installation. Before starting, plan your installation carefully so that it will be convenient for the operator to use, protected from water damage, easy to service, and out of the way of auto mechanics and passengers.



4-3. POWER CABLE

The power cable consists of a fused red lead, a fused black lead, and a 2-pin systems plug. To install the power cable, if an existing hole is conveniently located for passage of the power cable through the firewall, start with the plug end of the cable at the radio and connect the two leads to the vehicle battery.

Drill the firewall as required and install a rubber grommet. Pass the power cable leads into the engine compartment from the passenger compartment.

Connect the red fused lead to the positive (+) battery terminal or switched power source, and black lead to the negative (-) battery terminal. Always locate the fuse as close to the battery as possible. Coil up the surplus cable and secure it out of the way with the retaining strap provided. Be sure to leave some slack in the cables going to the radio so that it may be pulled out for servicing with the power applied.

CAUTION

The transceiver operates in **12-volt** negative ground system only! Always check the battery polarity and voltage of the vehicle before installing the radio.

4-4. INSTALLING THE RADIO

Mount the two-way radio so that the controls are within reach of the operator. Use the mounting bracket as a template to locate the holes, and mount the radio. Be sure to leave enough room at the rear of radio for cable connections. Before attaching the radio in the mounting bracket, connect the antenna plug, system plug and microphone.

ENGLISH

WARNING

For passenger safety, mount the radio securely so that the unit will not break loose in the event of a collision. This is especially important in station wagons, vans and similar type installations where a loose radio could be extremely dangerous to the vehicle occupants.

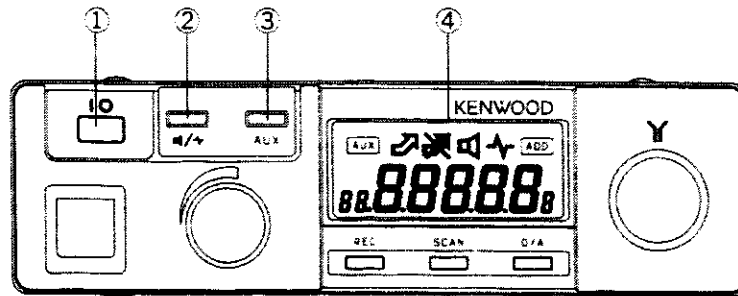
4-5. MOBILE MICROPHONE

Mount the microphone where it will be within reach of the operator, but will not interfere with safe operation of the vehicle. After mounting the microphone hanger, connect the microphone plug to the microphone jack on the front of the radio.

5. OPERATION

5-1. CONTROLS AND FUNCTIONS

FRONT PANEL



① POWER switch

Press to turn the power ON or OFF.

② MONITOR key

Allowing the operator to check for traffic on the channel before transmitting. Press and hold the MONITOR key for longer than 2 seconds will cause squelch off.

③ AUX key

(Not wired). Provided for control of auxiliary functions.

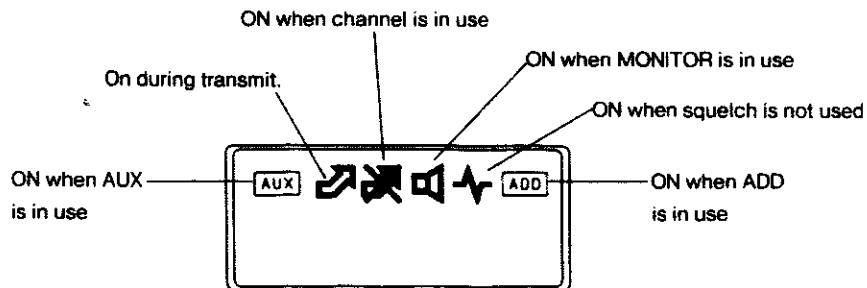
Installation and wiring of such auxiliary functions must be performed by your dealer's licensed or certified service technicians.

● If the optional DRS unit is mounted, playback begins.

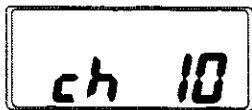
● If the Talkaround function is programmed, talkaround takes place.

● If the optional Two-Tone or DTMF Horn Alert System is mounted, it functions.

④ LCD display



For example
DISPLAY



Selected channel number.



On when TALK AROUND is selected.



On when PRIORITY CHANNEL mode is selected.(Fixed PRIORITY mode)



On when 2 TONE or DTMF Horn Alert mode is selected.



On when 2 TONE or Horn Alert is decoded.



On when recording mode.



On when playback mode.



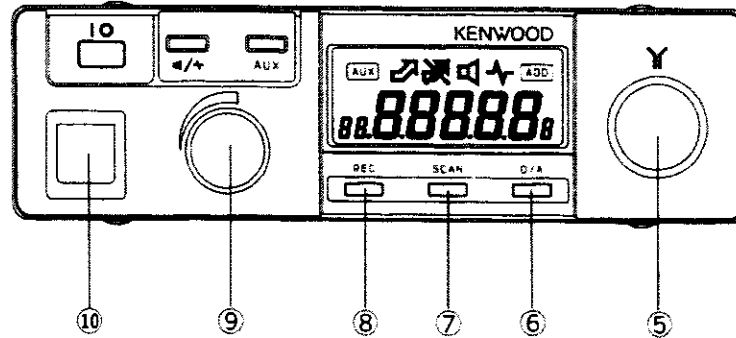
During SCAN



On when SCAN stop.



On when SCAN stop on PRIORITY CHANNEL



⑤ CHANNEL SELECTOR switch

Used when selecting a channel.

⑥ D/A key

Press and hold SCAN key then press this key when a channel is desired to be skipped during scanning. The displayed channel is deleted so that the channel is jumped during scanning. To release this, call the channel on display and Press and hold SCAN key then press this key.

Note

D/A key may be not activate, as initially selected by your dealer during installation.

⑦ SCAN key

Press this key to scan channels.

⑧ REC key

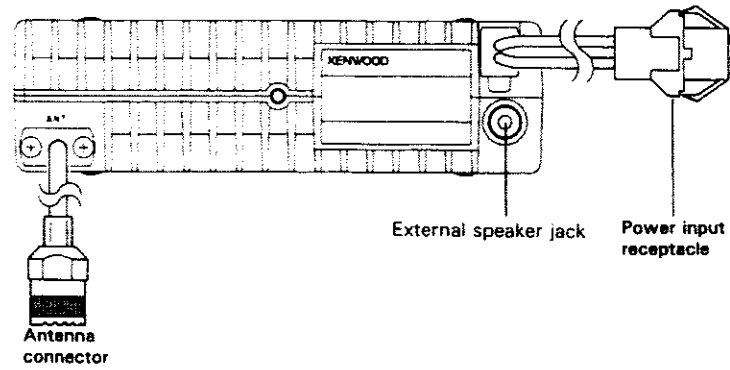
If the DRS unit is mounted, recording begins.

⑨ Volume control

Turn the knob to increase or decrease the volume.

⑩ Microphone Input Receptacle.

REAR PANEL

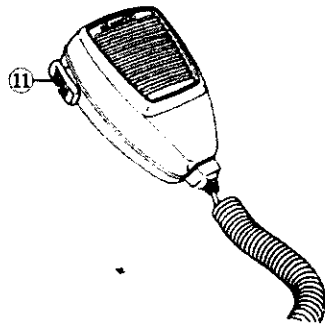


ENGLISH

MICROPHONE

① PTT (Push-To-Talk) switch

Press this switch to transmit, and speak into the microphone.



5-2. RECEIVE

Turn the power switch ON and turning the volume control clockwise. Next, turn the CHANNEL selector to your regular operating channel. Normally, once you have selected this channel, it will not be changed. Finally, adjust the volume control for the desired listening levels.

NOTE

If your radio is programmed with QT or DQT signaling, there will be virtually no noise coming from the speaker, even at full volume setting. You will hear transmissions being made by other radios IN YOUR SYSTEM ONLY.
If your radio is NOT PROGRAMMED with QT or DQT, you will hear ALL TRANSMISSIONS being made by any stations using the channel, or no one is using the channel, the radio will remain quiet.

To adjust the volume, press the monitor key, and allows you to hear all activity on the channel. Set the volume control for a comfortable listening level, and again press the monitor key, allowing it to return to the OFF position, for normal operation. With the monitor key in the OFF position, radios will ignore transmissions from stations other than those in your system.

At the first reception of a message from your dispatcher or another vehicle in your fleet, you may wish to make a minor adjustment of your volume control.

5-2-1. Scan and PRIORITY Channel

Pressing the SCAN key starts scanning. When the scan stops at a channel other than the priority channel, the signal alternately between the channel and the priority channel.

The priority channel may be selected by the channel selector knob or may be fixed, as initially selected by your dealer during installation.

Taking the microphone offhook reverts the radio to the priority channel (dealer selectable to stay on the current channel for non-priority channel scan).

5-2-2. DRS (Digital Recording System)

If the optional DRS unit is mounted, pressing the REC key records the received tones. Recording lasts for up to 32 seconds. Press the AUX key to play back the recorded data.

5-2-3. Two Tone System

If your radio contains the optional two-tone unit, and the programmed two-tone matches, the display shows CA, and a receiving tone is output from the speaker. To reset, set the microphone offhook, then onhook again. The Horn Alert system is alternately set and canceled each time the AUX key is depressed. When the system is on, HA appears on the LCD.

5-2-4. DTMF System

If your radio contains the optional DTMF unit, and the programmed DTMF code matches, the display shows CA, and an alert tone and a receiving tone are output from the speaker.

The alert tone stops when the microphone is set offhook. To reset, set the microphone onhook again. The Horn Alert system is alternately set and canceled each time the AUX key is depressed. When the system is on, HA appears on the LCD.

5-3. TRANSMIT

Calling another station on your KENWOOD radio is very simple:

First, press the monitor key ON, and listen for a few seconds to make certain the channel is not being used.

Now, hold the microphone about one and one half inches from your lips, squeeze the PTT (Push-To-Talk) switch, and speak in your normal speaking voice.

The TX indicator will display during transmission. When you are through speaking, release the PTT switch, and you are automatically back in the receive mode. When your conversation is completed, place the microphone back on its hook.

Notes

1. Do not press REC key during play back.
2. To stop play back operation or recording operation, please be sure to press AUX key.

6. MEMO

ENGLISH

Model TK-				Serial No.			
CH NO.	RX freq.	TX freq.	Signaling	CH NO.	RX freq.	TX freq.	Signaling
Dealer Name & Address							
Dealer Tel. ()				Date purchased / /19			