VHF REPEATER/UHF REPEATER

TKR-720/820 INSTRUCTION MANUAL

KENWOO

KENWOOD CORPORATION

FCC ID: ALHTKR-820N-2 2.983 (d)(8) MANUAL

> ©PRINTED IN JAPAN B62-0066-10(K, M)(MC) 93/12 11 10 9 8 7 6 5 4 3 2 1 92/12 10 9 8 7 6 5 4

FCC WARNING

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

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

BEFORE OPERATION

IMPORTANT GOVERNMENT LAW PROHIBITS THE RADIO TRANSMITTERS OPERATION OF UNLICENSED WITHIN TERRITORIES UNDER GOVERNMENT CONTROL. LLEGAL OPERATION IS **PUNISHABLE** MPRISONMENT OR BOTH. FINE OR SERVICE TO A QUALIFIED LICENSED CERTIFIED TECHNICIAN ONLY.

Please read this instruction manual carefully before placing your Repeater in service.

SAVE THIS INSTRUCTION MANUAL.

o prevent electric shock, fire and other injury, ease note the followings:

To ensure good ventilation, do not put anything on top of the cabinet.

To avoid risk of electric shock, circumstances should the unit be opened.

under If an abnormal smell or smoke immediately turn the power off and pull out the plug. Contact the KENWOOD service station or your dealer.

INSTALLATION

ase consult your dealer for installation of the eater and antenna.

UTION

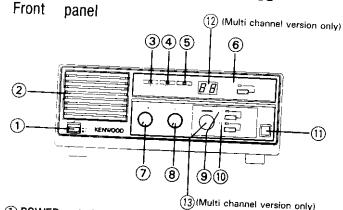
not place the unit, where it will be exposed to ect sunlight or close to heating appliance. not place the unit in areas of excessive dust, high nidity or on unstable surfaces.

following installation instructions are for use by KENWOOD service facility only.

Carefully unpack the repeater. 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 Repeater			
Fuse (3A) (for 120V)	F06-3024-05	• • • • •	1 ea. 1 ea.
Fuse (1.6A) (for 220V)	F05 1000 05		
Fuse(10A) (for TKR-820 Multi ch	nannel version or	ıly)	1 ea.
Fuse(15A) (for TKR-720 Multi ch	F51-0016-05 annel version on	 IV)	1 ea.
Coax. Cable (TKR-820 only) Power cable Ass'y (Multi channe	F51-0017-05		1 ea.
	el version only)	****	1 ea.
Duplexer Bracket (TKR-820 only	E30-2076-15)	• • • •	1 ea.
Machine screw (TKR-820 only)	J21-4248-04		2 ea.
Warranty card (U.S.A. only) Instruction manual	N09-0704-05 10 ea.		
	B62-0066-××	1s	copy heet

CONTROLS and FUNCTIONS



① POWER switch: Press to turn the unit ON.

SPEAKER: Front mounted for best sound quality.

③ POWER indicator: Lights when the unit is turned

BUSY indicator: ON when channel is in use.

⑤ TX indicator: Glows during transmit.

6 TAKE OVER switch and indicator: (with dealer optional remote controller) Press this switch when you will take over control from the remote controller, if so equipped.

TVOL control: Turn to about the 12 o'clock position.

® SQL (Squelch) control: Squelch is activated when the control is rotated clockwise. Further rotation sets threshold level. This control does not determine

REPEAT switch and indicator: Press this switch for repeater operation and the indicator light. Leave but the switch for full duplex transceiver operation.

MONI (monitor) switch and indicator:

Defeats signaling decoder in the full duplex transceiver mode, allowing the operator to check for traffic on the channel before transmitting. The indicator lights when the MONI switch is pressed.

Microphone Input Receptacle

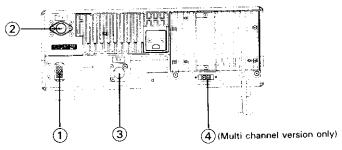
CHANNEL indicator (Multi channel version only)

Lights when the radio is turned ON, and indicates operaring channel number.

CHANNEL selector (Multi channel version only)

Roatary control knob for channel selection.

ar panel R-720



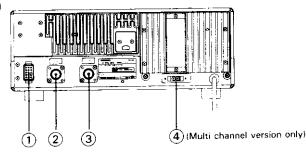
Accessory connector

TX antenna connector

RX/Duplexer antenna connector

DC input connector (Multi channel version only)





Accessory connector

TX/Duplexer antenna connector

RX antenna connector

DC input connector (Multi channel version only)

■ REPEATER OPERATION

witch on the unit by pressing the POWER switch.

ress the REPEAT switch to turn the indicator ON. The nit transmits and transfers message from stations in our own system automatically.

he TX light will light during transmission. You will be ble to hear messages being transferred by turning the OL control clockwise, if necessary.

■ TRANSCEIVER OPERATION

RECEIVE

Switch the unit ON by pressing the POWER switch ON. Next, leave out the REPEAT switch to turn the REPEAT Indicator OFF, and adjust the volume and squelch 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 if no one is using the channel, the radio will remain quiet.

To adjust the volume, depress the MONI switch, which defeats the QT system (if so programmed), and allows you to hear all activity on the channel. Set the volume control for a comfortable listening level, and again depress the MONI switch, allowing it to return to the OFF position for normal operation.

With the MONI switch in the OFF position, QT system programmed radios will ignore transmissions from stations other than those in your system.

Radios not programmed with QT will receive all transmissions occurring on the channel, even those from stations outside your own 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.

TRANSMIT

Calling another station on your KENWOOD radio is very simple:

First, listen for a few seconds to make certain the channel is not being used. The monitor switch may be depressed to check for activity on the channel.

Squeeze the TRANSMIT switch and speak in your normal speaking voice. FCC regulations require that you identify the station you are calling, and your station.

The TX light will light during transmission. When you are through speaking, release the TRANSMIT switch, and you are automatically back in the receive mode.

■ MICROPHONE

Plug the KENWOOD KMC-9 optional Microphone into the Microphone Input Receptacle on the front panel.

