

THE APPLICANT HAS BEEN CAUTIONED AS TO THE FOLLOWING:

15.21 INFORMATION TO USER.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

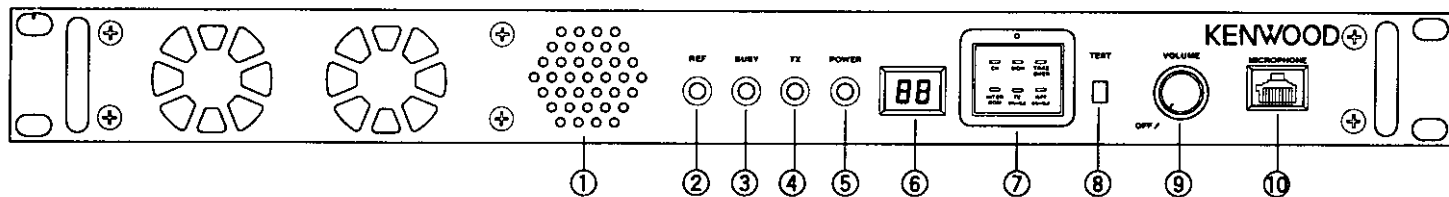
15.27(a) SPECIAL ACCESSORIES.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

CONTROLS AND FUNCTIONS

■ Front Panel



① Speaker

② REF (reference) indicator

Lights red when using an external reference frequency. Lights green when using the internal reference frequency.

③ BUSY indicator

Lights green while a signal is being received.

④ TX (transmit) indicator

Lights red while transmitting.

⑤ POWER indicator

Lights green when power is applied.

⑥ Display

Two, 7-segment digits display the channel number or status.

⑦ Programmable Function keys

Press these keys to activate their programmable functions.

⑧ TEST switch

Press to transmit an unmodulated signal with no external microphone connected.

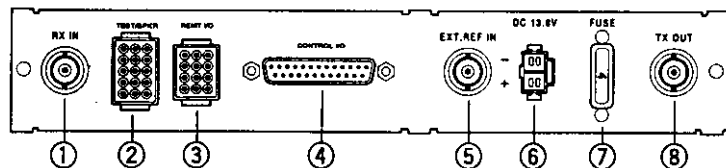
⑨ VOLUME control

Turn clockwise until a click sounds, to unmute the volume. Rotate to adjust the volume. Turn counterclockwise fully to mute the volume.

⑩ MICROPHONE jack

Connect a microphone to this 8-pin modular jack.

■ Rear Panel



① RX IN jack

Connect a RX antenna or a duplexer to this BNC receptacle.

② TEST/SPKR jack

Test input/output jack. Connect an external speaker to this jack.

③ REMT I/O jack

Connect an external remote controller to this jack.

④ CONTROL I/O jack

Connect an external programming device or repeater controller to this DB-25 interface.

⑤ EXT. REF IN jack

Connect an external reference frequency (10 MHz, -10 dBm or higher) to this BNC receptacle.

⑥ DC 13.8V jack

Connect a 13.8 V DC power supply to this jack.

⑦ FUSE

Insert a 4 A blade fuse into this fuse holder.

⑧ TX OUT jack

Connect a TX antenna or a duplexer to this BNC receptacle.

REPEATER OPERATION

Note: Please consult your dealer for programming the repeater.

When power is applied to the unit, the **POWER** indicator lights green.

Turn the **VOLUME** control clockwise until a click sounds, to unmute the volume. Rotate to adjust the volume. Turn the **VOLUME** control counterclockwise fully to mute the volume.

The **BUSY** indicator lights green while receiving a signal, and the **TX** indicator lights red while transmitting.

TRANSCEIVER OPERATION

■ Receive

Adjust the volume to your desired level. You may need to readjust the volume when you receive a message from your dispatcher or another member in your fleet.

- The **BUSY** indicator lights while a signal is being received.

■ Transmit

- 1 Listen to the channel before transmitting, to make sure it is not being used.
- 2 Press the **PTT** switch and speak in your normal speaking voice.
 - FCC regulations require that you identify the station you are calling as well as your own station (your assigned call sign).

Connect a **KENWOOD** optional microphone to the **MICROPHONE** jack on the front panel.

MICROPHONE

Please consult your dealer for installing the repeater and secure the handles using the supplied screws.

To install the handles onto the front panel of the receiver, align the handles with the holes on the front panel, then

INSTALLATION

Item	Part Number	Quantity
Front glass	B10-2590-X4	1
Fuse (4 A)	F06-4027-X5	1
Handles and screw set	K01-0421-X5	1
Power cable assembly	E30-3344-X5	1
Lead wire with connector	E31-3228-X5	1
Square plug	E59-0410-X5	1
Dressed screw	N08-0543-X4	1
Instruction manual	B62-1136-XX	1

Carefully unpack the repeater. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

UNPACKING AND CHECKING EQUIPMENT

WARNING:

- ◆ 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 QUALIFIED TECHNICIANS ONLY.

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.

NOTICES TO THE USER

- Do not place the unit in excessively dusty and/or humid areas, nor on unstable surfaces.
- If you detect an abnormal odor or smoke coming from the unit, disconnect the power from the unit immediately. Contact your **KENWOOD** service center or dealer.

- Do not expose the unit to long periods of direct sunlight, nor place it close to heating appliances.
- Do not open the unit under any circumstances; to avoid risk of electric shock.
- Do not expose the unit to rain or moisture; to prevent fire or electric shock.

PRECAUTIONS

- Squelch (Analog/ RSSI)
- Signalling Balance
- Digital Pager Balance
- Maximum Deviation
- Signalling Deviation (TD)
- QT Deviation
- DQT Deviation
- CW Deviation
- Digital Pager Deviation
- Test Tone Deviation
- Remote TA
- RF Power
- RX Audio Signal Output (RA)
- RX Detector Signal Output (RD)
- TX Audio Input (TA)
- Voting Tone Level
- You can adjust the following functions from a PC:
Wide: 30 kHz, 25 kHz/ Narrow: 15 kHz, 12.5 kHz (TKR-740)
Wide: 25 kHz/ Narrow: 12.5 kHz (TKR-840)
- The repeater has multi-mode capability.
- The interface port can be used with external equipment, such as a repeater controller.
- When using the KPG-47D version 2.00 or later (optional), RX PLL lock voltage, RX input signal strength, TX PLL lock voltage, TX output power, and the power supply voltage can be monitored on a PC.
- QT/DQT signalling can be programmed on each channel. It decodes up to 16 different QT/DQT tones at one time.
- The firmware can be written to the Flash memory through an external source.
- You can recall 1 of 32 preset channels using either a PF key or the external control line.
- You can easily program channel data using the KPG-47D version 2.00 or later (optional) on a PC.

FEATURES

KENWOOD incorporates the latest in advanced technology into all of our products. As a result, we feel strongly that you will be pleased with the quality and features of this product.

We are grateful you purchased this **KENWOOD** repeater. We believe this easy-to-program repeater will be highly effective in your communications system, and will keep personnel operating at peak efficiency.

THANK YOU!

INSTRUCTION MANUAL

TKR-740/TKR-840