INSTRUCTION MANUAL

THANK YOU

We are grateful you chose **KENWOOD** for your personal mobile applications. We believe this easy-to-use transceiver will provide dependable communications to keep personnel operating at peak efficiency.
KENWOOD transceivers incorporate the latest in advanced technology. As a result, we feel strongly that you will be pleased with the quality and features of this product.

MODELS COVERED BY THIS MANUAL

The models listed below are covered by this manual:

- **NX- 700:** VHF DIGITAL TRANSCEIVER
- **NX- 800:** UHF DIGITAL TRANSCEIVER

PRECAUTIONS

Observe the following precautions to prevent fire, personal injury, and transceiver damage.

- Do not attempt to configure the transceiver while driving; it is too dangerous.
- Do not disassemble or modify the transceiver for any reason.
- Do not expose the transceiver to long periods of direct sunlight, nor place it near heating appliances.
- If an abnormal odor or smoke is detected coming from the transceiver, switch the transceiver power off immediately, and contact your **KENWOOD** dealer.
- Use of the transceiver while you are driving may be against traffic laws. Please check and observe the vehicle regulations in your area.
- Do not use options not specified by **KENWOOD**.

NOTICES TO THE USER

WARNING:

♦ GOVERNMENT LAW PROHIBITS THE OPERATION OF UNLICENSED TRANSMITTERS WITHIN THE TERRITORIES UNDER GOVERNMENT CONTROL.
♦ ILLEGAL OPERATION IS PUNISHABLE BY FINE AND /OR INPRISONMENT.
♦ REFER SERVICE TO QUALIFIED TECHNICIANS ONLY.

SAFETY:

It is important that the operator is aware of, and understands, hazards common to the operation of any transceiver.

WARNING:

♦ **EXPLOSIVE ATMOSPHERES (GASES, DUST, FUMES, etc.)**
Turn OFF your transceiver 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 transceiver is mounted in the trunk area.

♦ **INJURY FROM RADIO FREQUENCY TRANSMISSIONS**
Do not operate your transceiver when somebody is either touching the antenna or standing within 2 to 3 feet (60 to 90 cm) of it, to avoid the possibility of radio frequency burns or related physical injury.

♦ **DYNAMITE BLASTING CAPS**
Operating the transceiver within 500 feet (150m) of dynamite blasting caps may cause them to explode. Turn OFF your transceiver when in an area where blasting is in progress, or where 'TURN OFF TWO-WAY RADIO' sighs have been posted. If you are transporting blasting caps in your vehicle, make sure they are carried in a closed metal box with a padded interior. Do not transmit while the caps are being placed into or removed from the container.

One or more of the following statements may be applicable:

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 to an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer for technical assistance.

UNPACKING AND CHECKING EQUIPMENT

Note: The following unpacking instructions are for use by your **KENWOOD** dealer, an authorized **KENWOOD** service facility, or the factory.

Carefully unpack the transceiver. 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.

♦ Supplied Accessories

Item	Part Number	Quantity
Microphone (with cable)	T91-0639-xx	1
Microphone hanger	J19-1584-xx	1
DC power cable •Fuse (15A)	E30-7523-xx F52-0024-xx	1 2
Mounting bracket	J29-0726-xx	1
Screw Set: •5 x 16 mm self-tapping screw (4pieces) •Hex-headed screw with washer (4 pieces) •Spring washer (4 pieces) •Flat washer (4 pieces)	N99-xxxx-xx	1
Instruction Manual	B62-××××-××	1

PREPARATION

WARNING

Various electronic equipment in your vehicle may malfunction if they are not properly protected from the radio frecuency
energy which is present while transmitting. Electronic fuel injection,anti-skid braking,and cruise control systems are typical examples of equipment that may malfunction. If your vehicle contains such equipment, consult the dealer for the make of vehicle and enlist his/her aid in determining if they will perform while transmitting.

Note: The following preparation instructions are for use by your **KENWOOD** dealer,an authorized **KENWOOD** service facility, or the factory.

TOOLS REQUIRED

Note: Before installing the transceiver, always check how far the mounting screws will extend below the mounting Surface. When drilling mounting holes, be careful not to damage vehicle wiring or parts.

The following tools are required for installing the transceiver:

- 1/4inch (6 mm) or larger electriic drill
- 5/32 inch (4.2 mm) drill bit for the 5 x 16 mm self-tapping screws
- 1/8 inch (3.2 mm) drill bit for the 4 x 16 mm self-tapping screws
- Circle cutters

POWER CABLE CONNECTION

CAUTION

•The transceiver operates in **12V** negative ground systems only! Check the battery polarity and voltage of the vehicle before installing the transceiver.
•Do not cut and/or remove the fuse holder from the DC power cable.

1 Check for an existing hole, conveniently located in the firewall, where the power cable can be passed through.
If no hole exists, use a circle cutter to drill the firewall, then install a rubber grommet.
2 Run the two- power cable leads through the firewall and into the engine compartment, from the passenger compartment.
3 Connect the red lead to the positive (+) battery terminal and the black lead to the negative (-) battery terminal.
Locate the fuse as close to the battery as possible.
4 Coil and secure the surplus cable with a retaining band.
Be sure to leave enough slack in the cables so the transceiver can be removed for servicing while keeping the power applied.

INSTALLING THE TRANSCEIVER

WARNING

For passenger safety,install the transceiver securely, using the supplied mounting bracket, so the transceiver will not break loose in the event of a collision.

1 Mark the position of the holes in the dash by using the mounting bracket as a templete. Drill the holes, then attach the mounting bracket using the supplied self-tapping screws.
Be sure to mount the transceiver in a location where the controls are within easy reach of the user and where there is sufficient space at the rear of the transceiver for cable connections.
2 Connect the antenna and the supplied power cable to the transceiver.
3 Slide the transceiver into the mounting bracket and secure it using the supplied hex-headed screws.
4 Mount the microphone hanger in a location where it will be within easy reach of the user.

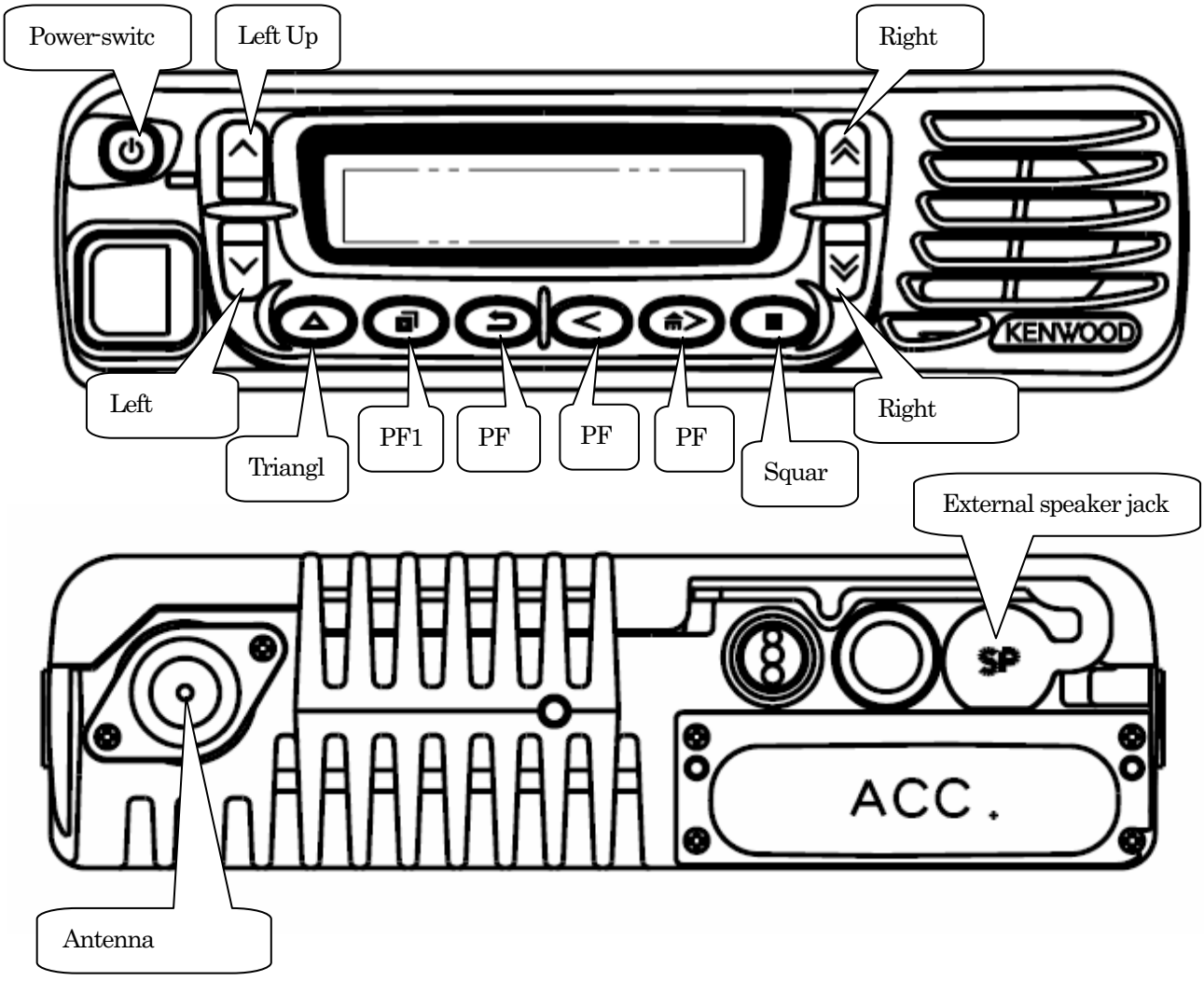
The microp hone and microphone cable should be mounted in a place where they will not interfere with the safe operation of the vehicle.

CAUTION

When replacing the fuse in the DC power cable,be sure to replace it with a fuse of the same value. Never replace a fuse with a fuse that has a higher value.

GETTING ACQUAINTED

ORIENTATION



Functional and Operational specifications

1) Front Panel

Switch(Push type)

No.	Print	Name	Description
1	⏻	Power-switch	Power On/Off
2	^	Left Up	Programmable Function Default : Volume Up 2nd Function Default : None Hold Default : Volume Up (Continuous)
3	v	Left Down	Programmable Function Default : Volume Down 2nd Function Default : None Hold Default : Volume Down (Continuous)
4	△	Triangle	Programmable Function Default : None 2nd Function Default : None Hold Default : None
5	❐	PF1	Programmable Function Default : Menu 2nd Function Default : None Hold Default : None
6	⮌	PF2	Programmable Function Default : Squelch Off Momentary 2nd Function Default : None Hold Default : None
7	<	PF3	Programmable Function Default : Zone Down 2nd Function Default : None Hold Default : Zone Down (Continuous)
8	⌂>	PF4	Programmable Function Default : Zone Up 2nd Function Default : None Hold Default : Zone Up (Continuous)
9	■	Square	Programmable Function Default : None 2nd Function Default : None Hold Default : None
10	^^	Right Up	Programmable Function Default : CH/GID Up 2nd Function Default : None Hold Default : CH/GID Up (Continuous)
11	vv	Right Down	Programmable Function Default : CH/GID Down 2nd Function Default : None Hold Default : CH/GID Down (Continuous)

Functions of the switches No.2-11 are PC programmable

TX/BUSY INDICATION

No.	Name	Description
1	Red	TX display
2	Green	Busy display
3	Orange	Call display

OPERATING BASICSA

♦ Switching Power ON/OFF

Press the switch to switch the transceiver ON.
Press and hold the switch for approximately 1 second to switch the transceiver OFF.

♦ Adjusting the Volume

The **Volume Up/Down SW** control to adjust the volume. You can adjust the volume up sw to increases the volume and the volume down sw to decreases it.

♦Selecting a Channel

The **Channel Up/Down SW** to select a channel.
The channel up sw the channel number increases and The channel down sw decreases it.

♦Transmitting

Note: Before transmitting, first monitor the channel to make sure it is not already in use.

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1 Select your desired channel.
• If the channel is busy, wait until it becomes free.
1 Press the microphone **PTT** switch and speak into the microphone. Release the **PTT** switch when you have finished speaking.

• For best sound quality at the receiving station, hold the microphone approximately 1.5 inches (3~4cm) from your mouth.

♦ Receiving

1 Select your desired channel.
2 When you hear a signal, readjust the volume level if necessary.
2 Respond to the call as described in step 2 of “TRANSMITTING”,above.

AUXILIARY FEATURES

♦ Time-out Timer (TOT)

The purpose of the Time-out Timer is to prevent any caller from using a channel for an extended period of time. If you continuously transmit for a period of time that exceeds the programmed time, the transceiver will stop transmitting and an alert tone will sound. To stop the tone, release the **PTT** switch.

Your dealer can program a warning function to alert you before the TOT expires. Continuously transmitting for the specified by your dealer will cause the warning tone to sound.

MANDATORY SAFETY INSTRUCTIONS TO INSTALLERS AND USERS

- Use only manufacturer or dealer supplied antennas.
- Antenna Minimum Safe Distance: **120 cm (4 feet), 50% duty Cycle.**
- Antenna Gain: **0** dBd referenced to a dipole.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy which is below the OSHA (Occupational Safety and Health Act) limits.

- Antenna Mounting: The antenna supplied by the manufacturer or radio dealer must not be mounted at a location such that during radio transmission, any person or persons can come closer than the above indicated minimum safe distance to the antenna, i.e. **120 cm (4 feet) , 50% duty Cycle.**
- To comply with current FCC RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.
- Vehicle installation: The antenna can be mounted at the center of a vehicle metal roof or trunk lid, if the minimum safe distance is observed.
- Base Station Installation: The antenna should be fixed-mounted on an outdoor permanent structure. RF Exposure compliance must be addressed at the time of installation.

Antenna substitution: Do not substitute any antenna for the one supplied or recommended by the manufacturer or radio dealer.

You may be exposing person or persons to excess radio frequency radiation. You may contact your radio dealer or the manufacturer for further instructions.

WARNING

Maintain a separation distance from the antenna to person(s) of at least **120 cm (4 feet), 50% duty Cycle.**

"This transmitter is authorized to operate with a maximum duty factor of 50%, in typical push-to-talk mode, for satisfying FCC RF exposure compliance requirements."

You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum separation distance (above) is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use, transmit only when person(s) are at least the minimum distance from the properly installed, externally mounted antenna. Transmit only when people outside the vehicle are at least the recommended minimum lateral distance away from the antenna/ vehicle.