

KENWOOD

INSTRUCTION MANUAL



VHF P25 TRANSCEIVER

TK-5210

UHF P25 TRANSCEIVER

TK-5310

700/800MHz P25 TRANSCEIVER

TK-5410

Kenwood Corporation

© B62-2155-00 (K, K2, K3, K4, K5, K6, K7)
09 08 07 06 05 04 03 02 01 00

Terminal Descriptions

Universal connector

It is possible to use a resin-based cover for the Universal connector.

No.	Name	Description	Specification	I/O
1	SSW	Ext/Int Speaker Switch Input	Hi: INT, Low: EXT	I
2	SP+	BTL Output + for External Speaker	Standard load 8 Ω	O
3	SP-	BTL Output - for External Speaker	Standard load 8 Ω	O
4	MSW	Ext/Int MIC Switch Input	Hi: INT, Low: EXT	I
5	EMC	External MIC Input	Impedance: 1.8 k Ω	I
6	ME	External MIC GND	-	-
7	PTT	External PTT Input	Low: PTT ON	I
8	PF	Programable Function Key Input	Input voltage: 0 V - 3.3 V	I
9	OPT	Aux I/O Port (for EXT Option)	I: 0 V - 3.3 V O: Standard load 25 k Ω	I/O
10	E	GND	GND	-
11	5V	5V	5V power supply output Max output current: 140 mA	O
12	TXD	Serial Data Output	Baud rate: 115200 bps max	O
13	RXD	Serial Data Input	Baud rate: 115200 bps max	I
14	NC	Not used	-	-

Antenna Terminal

50 Ω impedance

THANK YOU

We are grateful you have chosen **Kenwood** for your land mobile radio applications.

MODELS COVERED BY THIS MANUAL

The models listed below are covered by this manual:

- **TK-5210** (K/K2/K3/K7): VHF P25 Transceiver
- **TK-5310** (K/K2/K3/K4/K5/K6/K7): UHF P25 Transceiver
- **TK-5410** (K2/K3): 700/800MHz P25 Transceiver

NOTICES TO THE USER

- ◆ Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- ◆ Illegal operation is punishable by fine and/or imprisonment.
- ◆ 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.

Firmware Copyrights

The title to and ownership of copyrights for firmware embedded in Kenwood product memories are reserved for Kenwood Corporation.

This device made under license under one or more of the following US Patents: 4,590,473; 4,636,791; 4,716,407; 4,972,460; 5,148,482; 5,185,796; 5,271,017; 5,377,229; 5,502,767.

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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.



The RBRC Recycle seal found on **Kenwood** nickel-cadmium (Ni-Cd) battery packs indicates **Kenwood's** voluntary participation in an industry program to collect and recycle Ni-Cd batteries after their operating life has expired. The RBRC program is an alternative to disposing Ni-Cd batteries with your regular refuse or in municipal waste streams, which is illegal in some areas.

For information on Ni-Cd battery recycling in your area, call (toll free) 1-800-8-BATTERY (1-800-822-8837).

Kenwood's involvement in this program is part of our commitment to preserve our environment and conserve our natural resources.



The RBRC Recycle seal found on **Kenwood** nickel metal hydride (Ni-MH) battery packs indicates **Kenwood's** voluntary participation in an industry program to collect and recycle Ni-MH batteries after their operating life has expired. The RBRC program is an alternative to disposing Ni-MH batteries with your regular refuse or in municipal waste streams, which is illegal in some areas.

For information on Ni-MH battery recycling in your area, call (toll free) 1-800-8-BATTERY (1-800-822-8837).

Kenwood's involvement in this program is part of our commitment to preserve our environment and conserve our natural resources.



The RBRC Recycle seal found on **Kenwood** lithium-ion (Li-ion) battery packs indicates **Kenwood's** voluntary participation in an industry program to collect and recycle Li-ion batteries after their operating life has expired. The RBRC program is an alternative to disposing Li-ion batteries with your regular refuse or in municipal waste streams, which is illegal in some areas.

For information on Li-ion battery recycling in your area, call (toll free) 1-800-8-BATTERY (1-800-822-8837).

Kenwood's involvement in this program is part of our commitment to preserve our environment and conserve our natural resources.

PRECAUTIONS

- Do not charge the transceiver and battery pack when they are wet.
- Ensure that there are no metallic items located between the transceiver and the battery pack.
- Do not use options not specified by **Kenwood**.
- If the die-cast chassis or other transceiver part is damaged, do not touch the damaged parts.
- If a headset or headphone is connected to the transceiver, reduce the transceiver volume. Pay attention to the volume level when turning the squelch off.
- Do not place the microphone cable around your neck while near machinery that may catch the cable.
- Do not place the transceiver on unstable surfaces.
- Ensure that the end of the antenna does not touch your eyes.
- When the transceiver is used for transmission for many hours, the radiator and chassis will become hot. Do not touch these locations when replacing the battery pack.
- Do not immerse the transceiver in water.
- When water gets into the microphone opening or the speaker grill, the voice level may become incoherent or distorted. Lightly shake the transceiver to remove the water from the speaker and/or microphone before operating the transceiver.
- Always switch the transceiver power off before installing optional accessories.

**WARNING****Turn the transceiver power off in the following locations:**

- Near explosives or blasting sites.
- In aircrafts. (Any use of the transceiver must follow the instructions and regulations provided by the airline crew.)
- Where restrictions or warnings are posted regarding the use of radio devices, including but not limited to medical facilities.
- Near persons wearing pacemakers.

Turn the transceiver power off in the following locations, unless the model is specifically qualified for such use (Intrinsically Safe such as approved by Factory Mutual, CSA):

- In explosive atmospheres (inflammable gas, dust particles, metallic powders, grain powders, etc.).
- While taking on fuel or while parked at gasoline service stations.

**CAUTION**

- Do not disassemble or modify the transceiver for any reason.
- Do not place the transceiver on or near airbag equipment while the vehicle is running. When the airbag inflates, the transceiver may be ejected and strike the driver or passengers.
- Do not transmit while touching the antenna terminal or if any metallic parts are exposed from the antenna covering. Transmitting at such a time may result in a high-frequency burn.
- If an abnormal odor or smoke is detected coming from the transceiver, switch the transceiver power off immediately, remove the battery pack from the transceiver, 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 expose the transceiver to extremely hot or cold conditions.
- Do not carry the battery pack (or battery case) with metal objects, as they may short the battery terminals.

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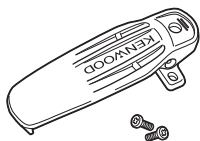
UNPACKING AND CHECKING EQUIPMENT

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

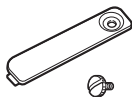
Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

SUPPLIED ACCESSORIES

Belt clip	1
• Screws for belt clip (3 x 8 mm)	2
Universal connector cap	1
• Dressing screw	1
• Packing (preassembled)	1
Quick reference card	1
Instruction manual	1



Belt clip + screws



Universal connector cap
+ Dressing screw

PREPARATION

BATTERY PACK PRECAUTIONS

Do not use battery packs or battery chargers not recommended by **Kenwood**.



CAUTION

- ◆ Do not recharge the battery pack if it is already fully charged. Doing so may cause the life of the battery pack to shorten or the battery pack may be damaged.
- ◆ After charging the battery pack, disconnect it from the charger. If the charger power is reset (turned ON after being turned OFF), recharging will start again and the battery pack will become overcharged.
- ◆ Do not use the transceiver while charging the battery pack. We recommend you switch the transceiver power OFF while charging is taking place.
- ◆ Do not charge the battery pack when the battery pack or transceiver is wet, to avoid the risk of fire or damage. Wipe the water from the battery pack or transceiver using a dry cloth before charging.
- ◆ Do not short the battery terminals or dispose of the battery by fire.
- ◆ Never attempt to remove the casing from the battery pack.

■ Charging the Battery Pack

For charging procedures, refer to the battery charger Instruction Manual.

Information concerning the battery pack:

The battery pack includes flammable objects such as organic solvent. Mishandling may cause the battery to rupture producing flames or extreme heat, deteriorate, or cause other forms of damage to the battery. Please observe the following prohibitive matters.



DANGER

- **Do not disassemble or reconstruct battery!**

The battery pack has a safety function and protection circuit to avoid danger. If they suffer serious damage, the battery may generate heat or smoke, rupture, or burst into flame.

- **Do not short-circuit the battery!**

Do not join the + and – terminals using any form of metal (such as a paper clip or wire). Do not carry or store the battery pack in containers holding metal objects (such as wires, chain-necklace or hairpins). If the battery pack is short-circuited, excessive current will flow and the battery may generate heat or smoke, rupture, or burst into flame. It will also cause metal objects to heat up.

- **Do not incinerate or apply heat to the battery!**

If the insulator is melted, the gas release vent or safety function is damaged, or the electrolyte is ignited, the battery may generate heat or smoke, rupture, or burst into flame.

- **Do not use or leave the battery near fires, stoves, or other heat generators (areas reaching over 80°C/ 176°F)!**

If the polymer separator is melted due to high temperature, an internal short-circuit may occur in the individual cells and the battery may generate heat or smoke, rupture, or burst into flame.

- **Avoid immersing the battery in water or getting it wet by other means!**

If the battery becomes wet, wipe it off with a dry towel before use. If the battery's protection circuit is damaged, the battery may charge at extreme current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

**DANGER**

- **Do not charge the battery near fires or under direct sunlight!**

If the battery's protection circuit is damaged, the battery may charge at extreme current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

- **Use only the specified charger and observe charging requirements!**

If the battery is charged in unspecified conditions (under high temperature over the regulated value, excessive high voltage or current over regulated value, or with a remodelled charger), it may overcharge or an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not pierce the battery with any object, strike it with an instrument, or step on it!**

This may break or deform the battery, causing a short-circuit. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not jar or throw the battery!**

An impact may cause the battery to leak, generate heat or smoke, rupture, and/or burst into flame. If the battery's protection circuit is damaged, the battery may charge at an abnormal current (or voltage), and an abnormal chemical reaction may occur.

- **Do not use the battery pack if it is damaged in any way!**

The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not solder directly onto the battery!**

If the insulator is melted or the gas release vent or safety function is damaged, the battery may generate heat or smoke, rupture, or burst into flame.

- **Do not reverse the battery polarity (and terminals)!**

When charging a reversed battery, an abnormal chemical reaction may occur. In some cases, an unexpected large amount of current may flow upon discharging. The battery may generate heat or smoke, rupture, or burst into flame.

**DANGER**

- **Do not reverse-charge or reverse-connect the battery!**

The battery pack has positive and negative poles. If the battery pack does not smoothly connect with a charger or operating equipment, do not force it; check the polarity of the battery. If the battery pack is reverse-connected to the charger, it will be reverse-charged and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not touch a ruptured and leaking battery!**

If the electrolyte liquid from the battery gets into your eyes, wash your eyes out with fresh water as soon as possible, without rubbing your eyes. Go to the hospital immediately. If left untreated, it may cause eye-problems.

**WARNING**

- **Do not charge the battery for longer than the specified time!**

If the battery pack has not finished charging even after the regulated time has passed, stop it. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not place the battery pack into a microwave or high pressure container!**

The battery may generate heat or smoke, rupture, or burst into flame.

- **Keep ruptured and leaking battery packs away from fire!**

If the battery pack is leaking (or the battery emits a bad odor), immediately remove it from flammable areas. Electrolyte leaking from battery can easily catch on fire and may cause the battery to generate smoke or burst into flame.

- **Do not use an abnormal battery!**

If the battery pack emits a bad odor, appears to have different coloring, is deformed, or seems abnormal for any other reason, remove it from the charger or operating equipment and do not use it. The battery may generate heat or smoke, rupture, or burst into flame.

■ Using the Li-ion Battery Pack

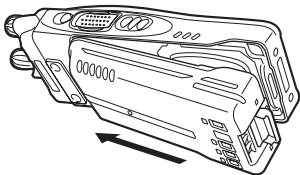
- Charge the battery pack before using it.
- To keep the battery discharge at a minimum, remove the battery pack from the equipment when it is not in use. Store the battery pack in a cool and dry location.
- When storing the battery pack for a long period:
 - 1 Remove the battery pack from the equipment.
 - 2 Discharge the battery pack, if possible.
 - 3 Store the battery pack in a cool (below 25°C/ 77°F) and dry location.

■ Characteristics of the Li-ion Battery Pack

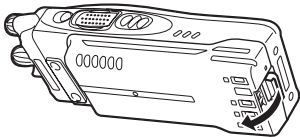
- As the battery pack is charged and discharged repeatedly, the battery capacity decreases.
- Even if the battery pack is unused, the battery pack degrades.
- It takes a longer time to charge the battery pack in cooler areas.
- The life of battery pack is shortened when it is charged and discharged in hotter areas. When the battery pack is stored in a hot location, the battery pack degrades quicker. Do not leave the battery pack in vehicles or near heating appliances.
- When the battery pack operating time becomes short, even if it is fully charged, replace the battery pack. Continuing to charge and discharge the battery pack may result in electrolyte leakage.

INSTALLING/ REMOVING THE (OPTIONAL) BATTERY PACK

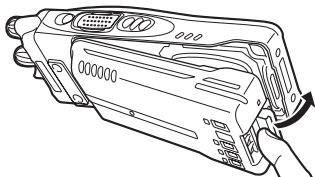
- 1 Match the guides of the battery pack with the corresponding grooves on the upper rear of the transceiver, then firmly press the battery pack to lock it in place.



- 2 Lock the safety catch to prevent accidentally pressing the release latch and removing the battery pack.



- 3 To remove the battery pack, lift the safety catch, press the release latch, then pull the battery pack away from the transceiver.

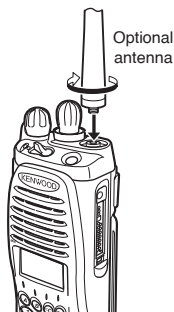


Note:

- ◆ To lift the battery pack safety catch, use a piece of hardened plastic or metal, such as a screwdriver, that is no more than 6 mm wide and 1 mm thick. It is imperative that you place the implement under only the lip of the safety catch so that you do not damage the release latch.
 - ◆ Before charging a battery pack that is attached to the transceiver, ensure that the safety catch is firmly closed.
-

INSTALLING THE (OPTIONAL) ANTENNA

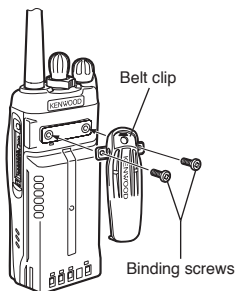
Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.



INSTALLING THE BELT CLIP

If necessary, attach the belt clip using the two supplied 3 x 8 mm binding screws.

Note: If the belt clip is not installed, its mounting location may get hot during continuous transmission or when left sitting in a hot environment.

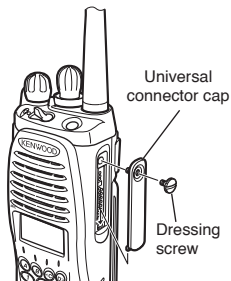


CAUTION

Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver. Acrylic ester, which is contained in these glues, may crack the transceiver's back panel.

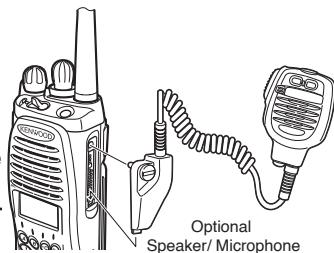
INSTALLING THE CAP OVER THE UNIVERSAL CONNECTOR

- 1 If you are not using an optional speaker/ microphone or headset, install the cap over the universal connector.
- 2 Secure the cap in place using the dressing screw.



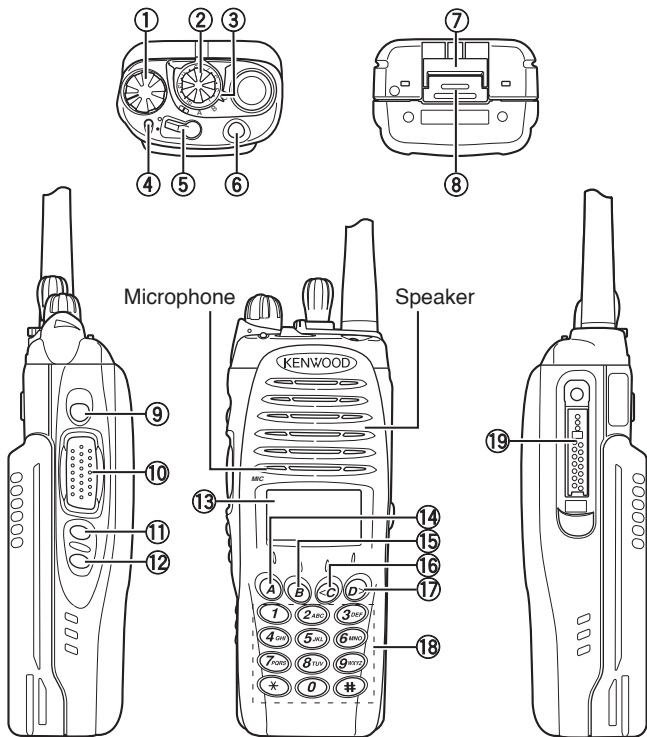
INSTALLING THE (OPTIONAL) SPEAKER/ MICROPHONE OR HEADSET

- 1 Insert the guide of the speaker/ microphone or headset connector into the groove of the universal connector.
- 2 Secure the connector in place using the attached screw.



Note: When not using an optional speaker/ microphone or headset, install the cap over the universal connector.

GETTING ACQUAINTED



There are 3 model types available:

K/K4 models: Basic models.

K2/K5/K7 models:

Equipped with a display and 4-key keypad (A, B, <C, and D>).

K3/K6 models: Equipped with a display and full keypad.

The above illustration displays the K3/K6 models.

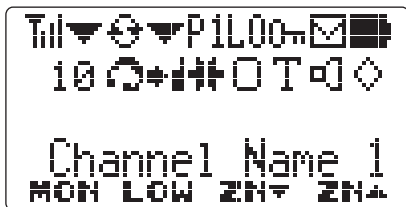
- ① **Power switch/ Volume control**
Turn clockwise to switch the transceiver ON. Rotate to adjust the volume. Turn counterclockwise fully to switch the transceiver OFF.
- ② **Selector knob**
Rotate this control to activate its programmable function {page 15}. The default setting is Channel Select.
- ③ **Concentric switch**
Rotate this switch to activate one of its programmable functions {page 15}.
- ④ **Transmit/ Receive/ Battery low indicator**
Lights red while transmitting, green while receiving (on Conventional channels only), and orange when receiving an encoded call (i.e. 2-tone, DTMF signaling, etc.). Flashes red when the battery power is low while transmitting. Replace or recharge the battery pack when the battery power is low.









Note: This indicator can be disabled by your dealer.











- ⑤ **Lever switch**
Switch the toggle position to activate its programmable function {page 15}. The **O** position turns the function ON. The **●** position turns the function OFF.
- ⑥ **Auxiliary (orange) key**
Press to activate its programmable function {page 15}.
- ⑦ **Safety catch**
Lock this catch to avoid accidentally pressing the release latch and removing the battery pack {page 7}.
- ⑧ **Release latch**
Press the release latch to unlock and remove the battery pack {page 7}.
- ⑨ **Side 1 key**
Press to activate its programmable function {page 15}.

- ⑩ **PTT (Push-To-Talk) switch**
Press and hold this switch, then speak into the microphone to call a station.
- ⑪ **Side 2 key**
Press to activate its programmable function {page 15}. Acts as an Up key for certain transceiver settings.
- ⑫ **Side 3 key**
Press to activate its programmable function {page 15}. Acts as a Down key for certain transceiver settings.
- ⑬ **Display (K2/K3/K5/K6/K7 models only)**
Refer to the display on page 13.
- ⑭ **A key (K2/K3/K5/K6/K7 models only)**
Press to activate its programmable function {page 15}. The programmed name appears on the bottom of the display.
- ⑮ **B key (K2/K3/K5/K6/K7 models only)**
Press to activate its programmable function {page 15}. The programmed name appears on the bottom of the display.
- ⑯ **<C key (K2/K3/K5/K6/K7 models only)**
Press to activate its programmable function {page 15}. The programmed name appears on the bottom of the display. Also acts as a Down key for certain transceiver settings.
- ⑰ **D> key (K2/K3/K5/K6/K7 models only)**
Press to activate its programmable function {page 15}. The programmed name appears on the bottom of the display. Also acts as an Up key for certain transceiver settings.
- ⑱ **Keypad (K3/K6 models only)**
Press the keys on the keypad to send DTMF tones. The keypad keys can also be programmed with secondary functions {page 15} if a programmable function keys is programmed as Function.
- ⑲ **Universal connector**
Connect the (optional) speaker/ microphone here. Otherwise, keep the supplied cap in place.

DISPLAY (K2/K3/K5/K6/K7 MODELS ONLY)



Indicator	Description
	The number of bars indicates the strength of incoming signals. The antenna plus 3 bars represents a strong signal while only the antenna represents a weak signal. No antenna means no signal is present. On Trunking channels, the antenna indicator flashes while searching for a control channel.
	Appears when the current zone (left icon) or channel (right icon) is added to the scanning sequence.
	Appears when you are using Scan mode.
	Appears when the current channel is programmed as a Priority channel. "P1" represents Priority channel 1. "P2" represents Priority channel 2. "PP" represents priority channels 1 and 2.
	Appears when low transmit power is selected. "HI" appears when using high transmit power.
	Appears when the key lock function is activated.
	Appears when there is a message stored in the transceiver memory. Flashes when a new message has arrived.
	Displays the current battery power status.

Indicator	Description
10	Displays various characters depending on dealer settings.
	Appears when the VOX function is activated.
	Appears when the Talk Around function is activated.
	Appears when the internal compander function is active.
	Appears when the Operator Selectable Tone function is activated.
	Appears when you have entered a Tactical Group zone.
	Appears when the Monitor or Squelch Off function is activated.
	Appears when the Scrambler/ Encryption function is activated.
	Appears when the vibrator function is activated.
	Appears when the auxiliary function is activated.
	Appears when the Auto Recording function on the VGS-1 option is activated.
Channel Name 1	Displays the operating zone and channel number or channel name. Also displays various text messages depending on the function being used.
MON LOW ZNR ZNA	Displays the functions of the A , B , <C , and D> keys. Abbreviated function names appear by the full function names in the descriptions starting on page 44. Additionally, the following key functions are available: ▲ (up), ▼ (down), SET (set), DEL (delete), ESC (escape), CAN (cancel), BAK (back), YES (yes), NO (no), MNU (to menu), and TOP (to top of display).

PROGRAMMABLE FUNCTIONS

Refer to the following tables to determine which functions are available for appropriate channels. Function descriptions start on page 44. Please contact your dealer for further details on these functions.

- Con FM: Channels set up for Conventional FM Operation
 Con P25: Channels set up for Conventional P25 Operation
 Trunk P25: Channels set up for Trunking P25 Operation
- ✓: Available
 Mix: Mixed Mode (Con FM and Con P25) only
 N/A: Not Available

Programmable Function	Con FM	Con P25	Trunk P25
2-tone ^{1,2}	✓	Mix	N/A
Autodial ²	✓	Mix	✓
AUX	✓	✓	✓
Battery Status	✓	✓	✓
Call Response	Mix	✓	N/A
Channel Down	✓	✓	✓
Channel Recall	✓	✓	✓
Channel Select ³	✓	✓	✓
Channel Up	✓	✓	✓
Clock ²	✓	✓	✓
Direct Channel 1 ~ 5	✓	✓	✓
Display Character ²	✓	✓	✓
Emergency ⁴	✓	✓	✓
External Speaker	✓	✓	✓
Function	✓	✓	✓
GPS Position Display	✓	✓	✓
Home Channel	✓	✓	✓

Programmable Function	Con FM	Con P25	Trunk P25
Individual ²	Mix	✓	✓
Key Delete ²	Mix	✓	✓
Key Lock	✓	✓	✓
Keypad ^{2,5}	Mix	✓	N/A
Light ²	✓	✓	✓
Low Transmit Power	✓	✓	✓
Monitor	✓	✓	N/A
Monitor Momentary	✓	✓	N/A
None	✓	✓	✓
Operator Selectable Tone ²	✓	Mix	N/A
OST Down ²	✓	Mix	N/A
OST Up ²	✓	Mix	N/A
Playback ⁶	✓	✓	✓
Regroup Request	N/A	N/A	✓
Rekey Request ^{2,5}	Mix	✓	N/A
Scan	✓	✓	✓
Scan Delete	✓	✓	✓
Scan Program ^{1,2}	✓	✓	✓
Scrambler/ Encryption	✓	✓	✓
Scrambler/ Encryption Code ²	✓	✓	✓
Selcall ^{1,2,7}	✓	Mix	N/A
Selcall + Status ^{1,2,7}	✓	Mix	N/A
Send the GPS Data ^{1,7}	✓	Mix	N/A
Site Lock	N/A	N/A	✓
Speaker Attenuation ⁸	✓	✓	✓
Squelch Level ²	✓	Mix	N/A
Squelch Off	✓	Mix	N/A
Squelch Off Momentary	✓	Mix	N/A

Programmable Function	Con FM	Con P25	Trunk P25
Status ^{1,2,7}	✓	Mix	✓
System Search	N/A	N/A	✓
Tactical Group ¹	✓	Mix	N/A
Talk Around	✓	✓	✓
Talkgroup ²	Mix	✓	N/A
Tone	✓	✓	✓
Vibrator ¹	✓	✓	✓
VOX	✓	✓	✓
Zeroize	✓	✓	✓
Zone Down	✓	✓	✓
Zone Select ⁹	✓	✓	✓
Zone Up	✓	✓	✓

¹ 2-tone, Scan Program, Selcall, Selcall Status, Status, Send the GPS Data, Tactical Group, and Vibrator are available only on the TK-5210/TK-5310.

² 2-tone, Autodial, Clock, Display Character, Individual, Key Delete, Keypad, Light, Operator Selectable Tone, OST Down, OST Up, Rekey Request, Scan Program, Scrambler/ Encryption Code, Selcall, Selcall Status, Squelch Level, Status, and Talkgroup are available only on K2/K3/K5/K6/K7 model transceivers.

³ Channel Select can be programmed only on the Selector knob.

⁴ Emergency can be programmed only on the Auxiliary (orange) key and the optional speaker/ microphone PF1 (orange) key.

⁵ Keypad and Rekey Request can be used when set as P25 OTAR.

⁶ Playback is available only if the VGS-1 optional board has been installed.

⁷ Selcall, Selcall + Status, Send the GPS data, and Status cannot be used when the transmit mode is set as Conventional P25.

⁸ Speaker Attenuation can be programmed only on the microphone programmable function keys.

⁹ Zone Select can be programmed only on the Selector knob, the Concentric switch, and the Lever switch.

BASIC OPERATIONS

SWITCHING POWER ON/ OFF

Turn the **Power** switch/ **Volume** control clockwise to switch the transceiver ON.

Turn the **Power** switch/ **Volume** control counterclockwise to switch the transceiver OFF.

■ Transceiver Password

K2/K3/K5/K6/K7 model transceivers may be password protected. If the transceiver is protected, "INPUT PASSWORD" will appear on the display when the power is turned ON. To unlock the transceiver, enter the correct password:



- 1 Enter a character using the **Side 2** and **Side 3** keys.
 - On K3/K6 model transceivers, you can enter the password by pressing the DTMF keys instead.
- 2 Press **SET** (**D>** key) to accept the character.
 - This step is unnecessary when using the keypad.
- 3 Repeat steps 1 and 2 to enter the entire password.
 - Press **DEL** (**B** key) to delete an incorrectly entered character. Press and hold **DEL** to delete all characters.
- 4 Press **CNF** (**A** key) to confirm the entry.
 - If you enter an incorrect password, an error tone sounds and the transceiver remains locked.
 - The password can contain a maximum of 6 digits.

ADJUSTING THE VOLUME

Rotate the **Power** switch/ **Volume** control to adjust the volume. Clockwise increases the volume and counterclockwise decreases it.

SELECTING A ZONE AND CHANNEL

Select the desired zone using the selector knob or the keys programmed as **Zone Up/ Zone Down**. Each zone contains a group of channels

Select the desired channel using the selector knob or the keys programmed as **Channel Up/ Channel Down**. Each channel is programmed with settings for transmitting and receiving.

- The default setting for the selector knob is **Channel Select**.

K2/K3/K5/K6/K7 model transceivers may have names programmed for zones and channels. Each name can contain up to 16 character. While selecting a zone, the zone name will appear above the channel name for approximately 2 seconds.

- If programmed by your dealer, your transceiver will announce the zone and channel numbers as you change them.

TRANSMITTING

For Trunking channels, refer to “Making Group Calls” and “Making Individual Calls” on the following pages.

- 1 Select the desired zone and channel using the selector knob and the **Zone Up/ Zone Down** or **Channel Up/ Channel Down** keys.



- 2 Press the key programmed as **Monitor** or **Squelch Off** to check whether or not the channel is free.
 - If the channel is busy, wait until it becomes free.
- 3 Press the **PTT** switch and speak into the microphone. Release the **PTT** switch to receive.
 - The LED indicator lights red while transmitting and green while receiving a signal. This indicator can also be disabled by your dealer.
 - For best sound quality at the receiving station, hold the microphone approximately 1.5 inches (3 ~ 4 cm) from your mouth.

■ Making Group Calls (P25)

Channels programmed for Conventional P25 and Trunking P25 operation already have a Group ID assigned. For these channels, simply press and hold the **PTT** switch to make the call.

- On Trunking channels, if the traffic channel is busy, a busy message appears and the busy tone sounds. Release the **PTT** switch and wait for the channel to become free. When the traffic channel becomes free, a proceed tone sounds.

Otherwise, on K2/K3/K5/K6/K7 model transceivers, if a key has been programmed with **Talkgroup** (Conventional P25 only), you can select a group ID from the list to make a call to those parties. To select a group ID:

- 1 Press the key programmed as **Talkgroup**.
- 2 Press the **Side 2** and **Side 3** keys or the **<C** and **D>** keys to select a group ID/name from the list that has been pre-entered into your transceiver.
 - The target group ID/name appears on the display.
- 3 Press the **Side 1** key to set the selected group ID.
- 4 Press and hold the **PTT** switch to make the call. Speak into the transceiver as you would during a normal transmission.

■ Making Individual Calls (P25) (K2/K3/K5/K6/K7 models only)

If a key has been programmed with **Individual**, you can make calls to specified persons.

- 1 Press the key programmed as **Individual**.
- 2 Press the **Side 2** and **Side 3** keys to select a unit ID from the list that has been pre-entered into your transceiver.
 - On K3/K6 model transceivers, you can enter a unit ID by pressing the DTMF keypad instead.
 - The target unit ID/name appears on the display.
- 3 Press and hold the **PTT** switch to make the call.
 - Speak into the transceiver as you would during a normal transmission.
 - On Trunking channels, a ringing tone will sound and the display will alternate between the called unit ID/name and "CALLING".
- 4 On Trunking channels, to end the call, press the **Side 1** key or the keypad **#** key.

RECEIVING

- 1 Select the desired zone and channel using the selector knob and the **Zone Up/ Zone Down** or **Channel Up/ Channel Down** keys. (If the Scan function has been programmed, you can switch it on or off as desired.)
- 2 When you hear a caller's voice, readjust the volume as necessary.
 - If the vibrator function is on, the transceiver will vibrate when a call is received.
 - If signaling has been programmed on the selected channel, you will hear a call only if the signal tone matches the tone set up on your transceiver.

Note: Signaling allows your transceiver to code your calls. This will prevent you from listening to unwanted calls. It does not make calls private, it only prevents them from being heard by transceivers set with a different signaling code. Refer to "SIGNALING" on page 39 for details.

■ Receiving Group Calls (P25)

When you receive a group call on a Conventional channel and the received group ID matches the ID set up on your transceiver, you can hear the caller's voice.

When you receive a group call on a Trunking channel, the transceiver automatically switches to the traffic channel to receive the call.

- Readjust the volume as necessary.
- If the vibrator function is on, the transceiver will vibrate when a call is received.

■ Receiving Individual Calls (P25)

When you receive an individual call on a Conventional channel, a ringing tone will sound and on K2/K3/K5/K6/K7 model transceivers, the display will show the caller's ID.

To respond to the call, press and hold the **PTT** switch and speak into the transceiver as you would during a normal transmission.


When you receive an individual call on a Trunking channel, a ringing tone will sound and on K2/K3/K5/K6/K7 model transceivers, the display will alternate between the caller's ID and "RECEIVING". To receive the call, press the **PTT** switch. To deny the call, press and hold the **Side 1** key or the keypad **#** key. After receiving the call, you can respond to the call by pressing and holding the **PTT** switch and speaking into the transceiver as you would during a normal transmission. After the call is finished, press the **Side 1** key or the keypad **#** key to end the call.

- If the vibrator function is on, the transceiver will vibrate when a call is received.

SCAN

Scan is useful for monitoring signals on the transceiver channels. While scanning, the transceiver checks for a signal on each channel and only stops on a channel if a signal is present.

To begin scanning, press the key programmed as **Scan**.

- On K2/K3/K5/K6/K7 model transceivers, the  icon appears on the display.
- The channels included in the scan list are scanned.
- When a signal is detected on a channel, Scan pauses on that channel. The transceiver will remain on the busy channel until the signal is no longer present. When the signal “drops out”, the transceiver will remain on the channel momentarily before Scan resumes. This delay time is programmed by your dealer. If a signal is received during the delay time, the transceiver will remain on the same channel.


To stop scanning, press the **Scan** key again.

Note: In order for Scan to operate, there must be at least 2 channels added to the scanning sequence. If there are less channels than this, Scan will not operate.

TEMPORARY CHANNEL LOCKOUT

If a key is programmed with the **Scan Delete** function, each channel can be locked out of the scan sequence manually.

During scan, you can temporarily remove specific channels from the scanning sequence by selecting them and pressing the **Scan Delete** key.

- On K2/K3/K5/K6/K7 model transceivers, the  icon no longer appears on the display for that channel.
- The channel is no longer scanned. However, when scanning is ended and restarted, the channels will reset and the channel will again be in the scanning sequence.

PRIORITY SCAN

A Priority channel must be programmed in order for Priority Scan to function.

When using a single Priority channel, the transceiver will automatically change to the Priority channel when a call is received on it, even if a call is being received on a normal channel.

When using dual Priority channels, Priority channel 1 is given precedence over Priority channel 2. So, if a call is received on Priority channel 1 while a call is already on Priority channel 2, the transceiver will automatically change to Priority channel 1.

- On K2/K3/K5/K6/K7 model transceivers, “P1” appears on the display when the channel is Priority channel 1, “P2” appears when the channel is Priority channel 2, and “PP” appears when the channel is both Priority channel 1 and Priority channel 2.

SCAN REVERT

The Scan Revert channel is the channel selected when you press the **PTT** switch to transmit during scan. Your dealer can program one of the following Scan Revert channels:




- **Selected:** The last channel selected is assigned as the new revert channel.
- **Selected + Talkback:** If the channel has been changed, the newly selected channel is assigned as the new revert channel. The transceiver “talks back” on the current channel.
- **Priority 1/ Priority 2:** If your dealer has programmed a Priority channel (either Priority 1 or Priority 2), this channel is the revert zone and channel.
- **Priority 1 + Talkback/ Priority2 + Talkback:** If your dealer has programmed a Priority channel (either Priority 1 or Priority 2), this channel is the revert zone and channel. The transceiver “talks back” on the current receive channel.
- **Last Called:** The last channel on which you made a call is assigned as the new revert channel.

SCAN PROGRAMMING (K2/K3/K5/K6/K7 MODELS ONLY) <TK-5210/ TK-5310 ONLY>


Note: Scan programming is only available when using Conventional operation.

■ Conventional Operation

If Scan Type has been programmed for Conventional operation, you are able to reprogram your scan list.

- 1 Press the key programmed as **Scan Program**.
 - The  icon appears on the display and blinks.
- 2 Press the **Side 2** and **Side 3** keys to select the zone or channel you will add to or remove from the scan list.
 - The  icon appears on the display for zones/ channels that are added to the scan list.
 - Press the **A** key to toggle between Zone Select and Channel Select.
- 3 Press the **<C** key to add the selected zone or channel to the scan list or the **B** key to remove the selected zone or channel from the scan list.
 - The  icon appears on the display when a zone/ channel is added to the scan list, and disappears when a zone/ channel is removed from the scan list.
- 4 Press the **Side 1** key to exit scan programming.


If the Priority channel has been set as Operator Selectable by your dealer, you are also able to reprogram the Priority mode.

- 1 Press the key programmed as **Scan Program**.
 - The  icon appears on the display and blinks.
- 2 Press and hold the **A** key for 2 seconds to edit the Priority channel.
- 3 Press the **Side 2** and **Side 3** keys to select the channel you will set as the Priority channel.

- 4 Press the **D>** key to toggle the selected channel between Priority and Normal.
 - “P1”, “P2”, or “PP” appears on the display when Priority mode is selected.
- 5 Press the **A** key again to set the new channel setting.
- 6 Press the **Side 1** key to exit scan programming.

■ Conventional Operation (Single Zone/ Multi-Zone)

If Scan Type has been programmed for Conventional Single Zone or Conventional Multi-Zone operation, you are able to reprogram the Priority mode.

- 1 Press the key programmed as **Scan Program**.
 - The  icon appears on the display and blinks.
- 2 Press the **Side 2** and **Side 3** keys to select the channel you will set as the Priority channel.
- 3 Press the **<C** and **D>** keys to select your desired zone.
- 4 Press the **D>** key to toggle the selected channel between Priority and Normal.
 - “P1”, “P2”, or “PP” appears on the display when Priority mode is selected.
- 5 Press the **A** key again to set the new channel setting and exit scan programming.
 - To exit without saving, press the **Side 1** key.

FleetSync: ALPHANUMERIC 2-WAY PAGING FUNCTION

<TK-5210/ TK-5310 ONLY >

FleetSync is an Alphanumeric 2-way Paging Function, and is a protocol owned by **Kenwood** Corporation. FleetSync enables a variety of paging functions on your transceiver, some of which depend on dealer programming.

Note: This function is available only in Conventional FM Operation.

SELCALL (SELECTIVE CALLING)

A Selcall is a voice call to a particular station or to a group of stations.

■ Transmitting (K2/K3/K5/K6/K7 models only)

- 1 Select your desired zone and channel.
- 2 Press the key programmed as **Selcall** or **Selcall + Status** to enter Selcall mode.
- 3 Press the **Side 2** and **Side 3** keys to select the ID of the station you want to call.
 - On K3/K6 model transceivers, if Manual Dialing is enabled, you can enter the station ID by using the DTMF keypad.
- 4 Press the **PTT** switch and begin your conversation.
 - Alternatively, you can press the **<C** key to page the selected station, rather than making a voice call.

■ Receiving

An alert tone will sound and the transceiver will automatically enter Selcall Mode.

On K2/K3/K5/K6/K7 model transceivers, the calling station's ID will appear when a Selcall is received. When the call station's ID appears on the display, you can respond to the call by pressing the **PTT** switch and speaking into the microphone.

■ Identification Codes


An ID code is a combination of a 3-digit Fleet number and a 4-digit ID number. Each transceiver must have its own Fleet and ID number.

- Enter a Fleet number (100 ~ 349) to make a group call.
- Enter an ID number (1000 ~ 4999) to make an individual call in your fleet.
- Enter a Fleet number to make a call to all units in the selected fleet (Fleet call).
- Enter an ID number to make a call to the selected ID in all fleets (Supervisor call).
- Select “ALL” Fleet and “ALL” ID to make a call to all units (Broadcast call).

Note: The ID range may be limited by programming.

STATUS MESSAGE (K2/K3/K5/K6/K7 MODELS ONLY)


You can send and receive 2-digit Status messages which may be decided in your talk group. Messages can contain up to 16 alphanumeric characters. Status messages range from 10 to 99 (80 ~ 99 are reserved for special messages).

A maximum of 15 received messages can be stored in the stack memory of your transceiver. These saved messages can be reviewed after reception. Depending on your dealer settings, when the stack memory is full, either the oldest message will be erased when a new message is received or the new message will not be stored in the stack memory. The  icon lights when a message is stored in the stack memory.

■ Transmitting

- 1 Select your desired zone and channel.
- 2 Press the key programmed as **Status** to enter Status mode or **Selcall + Status** to enter Selcall mode.
 - When using the **Status** key to enter Status mode, the station ID is fixed and cannot be selected. Skip to step 5 to continue.
- 3 In Selcall mode, press the **Side 2** and **Side 3** keys to select the ID of the station you want to call.
 - If Manual Dialing is enabled, you can enter the station ID by using the DTMF keypad.
- 4 Press the **A** key to enter Status Mode.
- 5 Press the **Side 2** and **Side 3** keys to select the status ID you want to transmit.
 - If Manual Dialing is enabled, you can enter a status ID by using the DTMF keypad.
- 6 Press the **PTT** switch or the **<C** key to initiate the Status call.

■ Receiving

The  icon will flash and a calling ID or text message will appear when a Status call is received.

Press any key to return to normal operation.

■ Reviewing Messages in the Stack Memory

- 1 Press and hold the key programmed as **Selcall**, **Status**, or **Selcall + Status** for 1 second to enter Stack mode.
 - The last received message is displayed with the message number.
- 2 Press the **Side 2** and **Side 3** keys to select the desired message.
- 3 Press the **Side 1** key to return to normal operation.
 - To delete the selected message, press the **B** or **#** key. To confirm the deletion, press the **B** or **#** key again.
 - To delete all messages, press and hold the **B** or **#** key for 1 second. To confirm the deletion, press the **B** or **#** key again.

SHORT MESSAGES

To send a short message, you must connect the transceiver to a PC. Ask your dealer for details.

- Short messages can contain a maximum of 48 characters.
- On K2/K3/K5/K6/K7 model transceivers, received short messages are displayed the same as Status messages and are stored in the same stack memory. A combined maximum of 15 Status calls and short messages can be stored in the stack memory.

LONG MESSAGES

To send and receive long messages, you must connect the transceiver to a PC. Ask your dealer for details.

- Long messages can contain a maximum of 4096 characters.

GPS REPORT

To send your location data, you must first connect a GPS microphone to the transceiver. GPS data can be transmitted using 1 of 5 methods: auto transmission, upon request, manual transmission, upon pressing/releasing the **PTT** switch, and during emergency mode. Ask your dealer for details.

DTMF (DUAL TONE MULTI FREQUENCY) CALLS

Note: DTMF calls can be made only in Conventional FM Operation.

MAKING A DTMF CALL

■ Manual Dialing (K3/K6 models only)

- 1 Press and hold the **PTT** switch.
- 2 Enter the desired digits using the DTMF keypad.
 - The corresponding DTMF tones sound each time you press a key.
 - If you release the **PTT** switch, transmit mode will end even if the complete number has not been sent.

■ Keypad Auto PTT (K3/K6 models only)

If your dealer has activated the Keypad Auto PTT function, simply press the keys on the keypad to make the call.

- The DTMF code will be sent automatically when you press a key.

■ Store & Send (K2/K3/K5/K6/K7 models only)

- 1 Enter the desired digits using the DTMF keypad.
 - The digits appear on the display as you enter them.
 - On K2/K5/K7 model transceivers, you can enter digits by using the **Side 2** and **Side 3** keys. Press these keys to cycle through the DTMF digits.
 - You can enter up to 31 digits before transmitting.
- 2 After entering the complete number, press the **PTT** switch to transmit.

Note: If you switch the power OFF before transmitting the number, the number will be cleared.

AUTODIAL (K2/K3/K5/K6/K7 MODELS ONLY)

Autodial allows you to quickly call DTMF numbers that have been programmed onto your transceiver.

- 1** Press the key programmed as **Autodial**.
 - The first entry in the Autodial list appears on the display.
- 2** Press the **Side 2** and **Side 3** keys or enter the appropriate DTMF number (01 ~ 32) to select your desired Autodial list number.
 - The stored entry appears on the display.
- 3** Press the **PTT** switch to make the call.
 - Alternatively, you can press the **<C** key to transmit the selected DTMF number, rather than making a call.

STUN CODE <TK-5210/ TK-5310 ONLY>

This function is used when a transceiver is stolen or lost. When the transceiver receives a call containing a stun code, either transmit mode will be disabled, or both receive mode and transmit mode will be disabled. The stun code is cancelled when the transceiver receives a call with a revive code.

TRUNKING CALLS

MAKING A TELEPHONE CALL

■ Manual Dialing (K2/K3/K5/K6/K7 models only)

- 1 Press the key programmed as **Autodial**.
 - The last called unit appears on the display.
 - Press the **A** key to switch the display between the unit name and the list number.
- 2 Press and hold the **A** key to enter Store & Send mode.
- 3 Enter your desired number using the DTMF keys.
 - Alternatively, you can select a digit by using the **Side 1** and **Side 2** keys or by rotating the selector knob, and then set the selected digit by pressing the **D>** key. Repeat this process to enter the entire number.
- 4 Press the **PTT** switch to make the call.
 - Alternatively, you can press the **<C** key to page the selected unit, rather than making a call.

■ Selecting a Number from the List (K2/K3/K5/K6/K7 models only)

- 1 Press the key programmed as **Autodial**.
 - The last called unit appears on the display.
 - Press the **A** key to switch the display between the unit name and the list number.
- 2 Press the **Side 2** and **Side 3** keys to select your desired list number.
- 3 Press the **PTT** switch to make the call.
 - Alternatively, you can press the **<C** key to page the selected unit, rather than making a call.

RECEIVING A TELEPHONE CALL

- 1 When a call is received, a ringing tone will sound and "PHONE CALL" will appear on the display.
 - If the vibrator function is on, the transceiver will vibrate when a call is received.
- 2 Press and hold the **PTT** switch to speak, and release it to receive.
 - Only one person can speak at a time.

MAKING A STATUS CALL

- 1 Select your desired zone and channel.
- 2 Press the key programmed as **Status** to enter Status mode.
- 3 Press the **Side 2** and **Side 3** keys to select the status ID you want to transmit.
- 4 Press the **PTT** switch or the **<C** key to initiate the Status call.
 - After the status call has been successfully received by the called unit, "COMPLETE" appears on the display.

EMERGENCY CALLS

If your transceiver has been programmed with the Emergency function, you can make emergency calls.

Note: Only the Auxiliary (orange) key and the PF1 (orange) key of the optional speaker/ microphone can be programmed with the Emergency function.

- 1 Press and hold the key programmed as **Emergency**.
 - Depending on the delay time programmed into your transceiver, the length of time you must hold the Emergency key will vary.
 - When the transceiver enters Emergency mode, the transceiver will change to the Emergency channel and begin transmitting based on how the transceiver is set up by your dealer. Transmit periods are also set by your dealer.
- 2 To exit Emergency mode, press and hold the **Emergency** key again.
 - If the Emergency mode completes a preset number of cycles, Emergency mode will automatically end and the transceiver will return to the zone and channel that was in use before Emergency mode was entered.

Note:

- ◆ Your dealer can set the transceiver to emit a tone when Emergency mode starts and stops
 - ◆ Your dealer can set the transceiver to emit tones and received signals as normal or mute the speaker during Emergency operation.
-


SCRAMBLER (FM) <TK-5210/ TK-5310 ONLY>/ ENCRYPTION (P25)

Note:

- ◆ The Scrambler function can be used only in Conventional FM Operation. Additionally, the Voice Scrambler board must be installed before this function can be activated.
 - ◆ Ask your dealer for details concerning the Voice Scrambler board and the Encryption DES/AES settings.
-

SECURE (ENCRYPTED) TRANSMISSION

Press the key programmed as **Scrambler/ Encryption** to switch the transceiver to secure (encrypted) transmission.

- On K2/K3/K5/K6/K7 model transceivers, the  icon appears when the Scrambler or Encryption function is turned ON.
- Pressing the **PTT** switch after the Scrambler or Encryption function has been turned ON encrypts the transmitted signal.
- Each group member must activate their respective Scrambler/ Encryption functions to descramble the received signals.

SELECTING THE SCRAMBLER CODE

- 1 Press the key programmed as **Scrambler/ Encryption Code** (K2/K3/K5/K6/K7 models only) or press and hold the key programmed as **Scrambler/ Encryption** for 1 second, to enter Code Selection Mode.
- 2 Press the **Side 2** and **Side 3** keys or the **D>** and **<C** keys to increase or decrease the Scrambler code.
 - There are 16 available Scrambler codes (1 ~ 16).
 - Each group member must use the same code in order for the transceivers to descramble the received signals.
- 3 Press the **Side 1** key to set the new Scrambler code.

SELECTING THE ENCRYPTION KEY

- 1 Press the key programmed as **Scrambler/ Encryption Code** (K2/K3/K5/K6/K7 models only) or press and hold the key programmed as **Scrambler/ Encryption** for 1 second, to enter Key Selection Mode.
- 2 Select the new Encryption key using the **Side 2** and **Side 3** keys or the **<C** and **D>** keys.
 - There are 16 available Encryption keys (1 ~ 16).
 - When a call is received, the transceiver will descramble the call as long as the received code is in the encryption list.
- 3 Press the **Side 1** key to set the new Encryption key.

Note: To return the transceiver to the default Encryption key programmed, select "PRESET". However, if you delete the Encryption key (see below), it will not be recovered.

DELETING THE ENCRYPTION KEY (K2/K3/K5/K6/K7 MODELS ONLY)

- 1 Press the key programmed as **Key Delete** to enter Key Delete mode.
- 2 Select the current Encryption key using the **Side 2** and **Side 3** keys or the **<C** and **D>** keys.
- 3 Press the **B** key to delete the Encryption key.
- 4 Press the **Side 1** key to exit Key Delete mode.

Note: To delete all Encryption keys (when more than one key has been set up), select "ALL".

PASSWORD PROTECTION (K2/K3/K5/K6/K7 MODELS ONLY)

If the transceiver is password protected, entering an incorrect password successively 15 times will automatically delete all the Encryption keys.

- Turning the transceiver power OFF and the ON again will not reset the number of attempts for entering an incorrect password.

SIGNALING

Note: Signaling can be used only in Conventional FM Operation.

QUIET TALK (QT)/ DIGITAL QUIET TALK (DQT)


Your dealer may have programmed QT or DQT signaling on your transceiver channels. A QT tone/ DQT code is a sub-audible tone/code which allows you to ignore (not hear) calls from other parties who are using the same channel.

When a channel is set up with a QT tone or DQT code, squelch will only open when a call containing a matching tone or code is received. Likewise, signals that you transmit will only be heard by parties whose QT/ DQT signaling matches your transceiver.

If a call containing a different tone or code is made on the same channel you are using, squelch will not open and you will not hear the call. This allows you to ignore (not hear) these calls. Although it may seem like you have your own private channel while using QT/ DQT, other parties can still hear your calls if they set up their transceiver with the same tone or code.

■ Operator Selectable Tone (OST) (K2/K3/K5/K6/K7 models only)

If a key has been programmed with **Operator Selectable Tone**, you can reprogram the QT tone or DQT code on each of your channels.

- 1 Select your desired channel.
- 2 Press and hold the key programmed as **Operator Selectable Tone** for 1 second.
 - The  icon appears on the display.
- 3 Press the **Side 2** and **Side 3** keys or the **D>** and **<C** keys to select your desired tone or code from 1 to 40.
- 4 Press the **Side 1** key to save your new setting.

After selecting and setting up your desired tone or code, press the **Operator Selectable Tone** key to activate the OST function. Press this key again to turn the OST function OFF.

OPTIONAL SIGNALING <TK-5210/ TK-5310 ONLY>

Your dealer may also program several types of option signaling for your transceiver channels.

■ **2-tone Signaling**

2-tone Signaling opens the squelch only when your transceiver receives a call containing matching 2 tones.

■ **DTMF Signaling**

DTMF Signaling opens the squelch only when the transceiver receives a call containing a matching DTMF code.

■ **FleetSync Signaling**

Refert to "SELCALL (SELECTIVE CALLING)" on page 28.

■ **MDC-1200 Signaling**

MDC-1200 is a data system using Audio Frequency Keying (AFSK).

VOICE OPERATED TRANSMISSION (VOX)


VOX can be activated or deactivated by your dealer. VOX operation allows you to transmit hands-free. This feature can only be used if you are using a supported headset.

When operating VOX, you must set a VOX Gain level. This setting allows the transceiver to recognize sound levels. If the microphone is too sensitive, it will begin transmitting when there is noise in the background. If it is not sensitive enough, it will not pick up your voice when you begin speaking. Be sure to adjust the VOX Gain level to an appropriate sensitivity to allow smooth transmission.

VOX GAIN LEVEL

- 1 Connect the headset to the transceiver.
 - The VOX function does not activate when a headset is not connected to the accessory terminal of the transceiver.
- 2 Press the key programmed as **VOX**.
 - On K2/K3/K5/K6/K7 model transceivers, the current VOX Gain level appears on the display.
- 3 Press the **Side 2** and **Side 3** keys or the **D>** and **<C** keys to increase or decrease the VOX Gain level.
 - The VOX Gain can be adjusted from levels 1 to 10.
- 4 While adjusting the gain level, speak into the headset microphone as you would while under normal operation, to test the sensitivity level.
 - When the microphone recognizes a sound, the LED lights orange. This allows you to determine a suitable level where background noise will not activate VOX operation while speaking into the microphone will activate it.
 - The transceiver does not transmit your voice during this test procedure.
- 5 Press the **Side 1** key to save the setting.

VOX OPERATION

- 1 Connect the headset to the transceiver.
 - The VOX function does not activate when a headset is not connected to the accessory terminal of the transceiver.
- 2 Press and hold the key programmed as **VOX** for 2 seconds.
 - On K2/K3/K5/K6/K7 model transceivers, the  icon appears on the display.
- 3 To transmit, simply speak into the microphone.
 - The transceiver recognizes sound levels depending on the VOX Gain level. If the microphone is too sensitive, it will begin transmitting when there is noise in the background. If it is not sensitive enough, it will not pick up your voice when you begin speaking. Be sure to adjust the VOX Gain level to an appropriate sensitivity to allow smooth transmission.
- 4 When you finish speaking, the transceiver automatically returns to receive mode.
 - Depending on the pre-programmed delay time, it may take a moment before returning to receive mode. The delay time is present to ensure that the end of your conversation is not cut off when you finish speaking.
- 5 To turn the VOX function OFF, press and hold the **VOX** key again, for 2 seconds.

Note:

- ◆ If a speaker/ microphone is connected to the transceiver while the VOX function is switched ON and the VOX Gain Level is configured to a higher, more sensitive level, louder received signals may cause the transceiver to start transmission.
 - ◆ When you operate the VOX function, you must use an optional KHS-11BL, KHS-14, KHS-15-BH, or KHS-15-OH accessory.
-

CLOCK (K2/K3/K5/K6/K7 MODELS ONLY)

If activated by your dealer, your transceiver can track the time with its built-in clock. The time will display momentarily when the transceiver power is turned ON. Additionally, you can view the clock any time by pressing the key programmed as **Clock**.

Note: Removing or leaving the battery pack uncharged for extended periods will cause the clock time to clear.

CLOCK ADJUSTMENT

To set the time:

- 1 With the transceiver power OFF, press and hold the **Auxiliary (orange)** key and the **PTT** switch while turning the transceiver power ON.


- The current time setting appears.



- 2 Release the **Auxiliary (orange)** key, followed by the **PTT** switch.
- 3 Press the **Side 2** and **Side 3** keys or the **D>** and **<C** keys to increase or decrease the year setting.
- 4 Press the **A** key to set the year.
 - The transceiver cycles to the month setting.
- 5 Repeat steps 3 and 4 to set the month, day, hour, and minute.
- 6 Turn the transceiver power OFF and then back ON to return to normal operation.

ADVANCED OPERATIONS

Your transceiver operations vary according to the functions that your dealer has programmed onto the transceiver keys. Following is brief overview of the programmable functions. Refer to those functions which have been programmed onto your transceiver.

- **2-tone (2TN) <TK-5210/ TK-5310 only>**
Press this key to display the list of 2-tone codes that has been pre-stored in your transceiver memory. While viewing the 2-tone list, press the **Side 2** and **Side 3** keys to select your desired code, then press the **PTT** switch to make the call.
- **Autodial (AD)**
Refer to "AUTODIAL" on page 33.
- **AUX (AUX)**
Press this key to toggle the auxiliary port ON and OFF. When toggled on, the optional feature connected to the auxiliary port will be activated, and on K2/K3/K5/K6/K7 model transceivers, the  icon will appear on the display.
- **Battery Status (BAT) <TK-5210/ TK-5310 only>**
Press this key to view the battery power status. Battery status is represented by the number of times the LED indicator flashes red. Five flashes represents high power, 4 represents medium power, 3 represents low power, and 2 represents very low power. If the LED flashes red only 1 time, recharge or replace your battery pack immediately. When the Low Battery Warning function is active {page 52} and the battery power is low, this key will not operate.
- **Call Response (RES)**
Press this key to respond to a private call. When an Individual Call is received, the Alert tone stops.
- **Channel Down (CH▼)**
Press this key to decrease the channel number {page 19}.

- **Channel Recall (RCL)**
Press this key during Scan to return to the last called zone and channel.
- **Channel Select**
Turn the selector clockwise to increase the channel number and counterclockwise to decrease it {page 19}.
- **Channel Up (CH▲)**
Press this key to increase the channel number {page 19}.
- **Clock (CLK)**
Refer to “CLOCK” on page 43.
- **Direct Channel 1 ~ 5 (DC1 ~ DC5)**
Press 1 of these 5 keys to jump to a frequently used zone and channel (pre-programmed by your dealer). If activated by your dealer, you can set your own Direct Channels by selecting your desired zone and channel, then pressing and holding the **Direct Channel 1 ~ 5** key for 3 seconds.
- **Display Character (CHR)**
Press this key to switch the display between the zone and channel number and the channel name.
- **Emergency**
Refer to “EMERGENCY CALLS” on page 36.
- **External Speaker (ESP)**
Press this key to switch the speaker from the transceiver’s built-in speaker to an optional external speaker.
- **Function (FNC)**
Press this key, then press a programmable key to activate its secondary function.
- **GPS Position Display (GPP)**
Press this key when the GPS unit has been installed to display your location data.

- **Home Channel (HOM)**
Press this key to jump to your home zone and channel (pre-programmed by your dealer). If activated by your dealer, you can set your own Home Channel by selecting your desired zone and channel, then pressing and holding the **Home Channel** key for 3 seconds.
- **Individual (IDV)**
Refer to “Making Individual Calls” on page 22.
- **Keypad (KST)**
Press this key to change the Keypad stored in a Secure Cryptographic Module (SCM).
- **Key Delete (KDL)**
Refer to “DELETING THE ENCRYPTION KEY” on page 38.
- **Key Lock (LCK)**
Press and hold this key for 1 second to lock the transceiver keys. Press and hold the **Key Lock** key again to unlock the keys. The PTT switch, Selector, Concentric switch, and Toggle switch still function normally, and the following functions can still be operated: Battery Status, Emergency, Light, Monitor, Monitor Momentary, Squelch Off, Squelch Off Momentary, Function, and Speaker Attenuation.
- **Light (LIT)**
Press this key to turn the display and keypad backlight on. The backlight remains on for 5 seconds before automatically turning off. While the backlight is on, pressing any key other than the **PTT** switch, the **Volume** control, or the **Light** key will reset the 5 second timer. To manually turn the backlight off, press the **Light** key again. If Auto backlight is activated by your dealer, the backlight will activate by pressing any key other than the **PTT** switch or the **Volume** control.
- **Low Transmit Power (LOW)**
When using a channel programmed with high power, press this key to change the output power to low. Press the **Low Transmit Power** key again to return to high power.

- **Monitor (MON)**
Press this key to turn the transceiver signaling off, to listen to all calls that are received on the channel. Press the **Monitor** key again to turn the transceiver signaling back on.
- **Monitor Momentary (MON)**
Press and hold this key to momentarily turn the transceiver signaling off. Releasing this key turns the transceiver signaling back on. While signaling is off, you can listen to all calls that are received on the channel.
- **None**
No function has been programmed on the key.
- **Operator Selectable Tone (OST)**
Refer to “QUIET TALK (QT)/ DIGITAL QUIET TALK (DQT)” on page 39.
- **OST Down (OS▼)**
Press this key to decrease the Operator Selectable Tone number of your selected channel.
- **OST Up (OS▲)**
Press this key to increase the Operator Selectable Tone number of your selected channel.
- **Playback (PLY)**
Refer to “VGS-1 OPTIONAL VOICE GUIDE & STORAGE UNIT” on page 55.
- **Regroup Request (RGP)**
Press this key to send a request to the dispatcher to join the talkgroup set up by the dispatcher. On K2/K3/K5/K6/K7 model transceivers, “Dyn. Regroup” appears on the display when the transceiver joins the talkgroup.
- **Rekey Request (RKY)**
Press this key to send a Hello Command (Rekey Request).
- **Scan (SCN)**
Refer to “SCAN” on page 24.
- **Scan Delete (DEL)**
Refer to “TEMPORARY CHANNEL LOCKOUT” on page 24.

- **Scan Program (SCP) <TK-5210/ TK-5310 only>**
Refer to “SCAN PROGRAMMING” on page 26.
- **Scrambler/ Encryption (SE)**
Refer to “SCRAMBLER (FM) <TK-5210/ TK-5310 only>/ ENCRYPTION (P25)” on page 37.
- **Scrambler/ Encryption Code (SEC)**
Refer to “SCRAMBLER (FM) <TK-5210/ TK-5310 only>/ ENCRYPTION (P25)” on page 37.
- **Selcall (SEL) <TK-5210/ TK-5310 only>**
Refer to “FleetSync: ALPHANUMERIC 2-WAY PAGING FUNCTION” on page 28.
- **Selcall + Status (SES) <TK-5210/ TK-5310 only>**
Refer to “FleetSync: ALPHANUMERIC 2-WAY PAGING FUNCTION” on page 28.
- **Send the GPS data (GPS) <TK-5210/ TK-5310 only>**
Press this key when the GPS unit has been installed to send your positioning data to the base station.
- **Site Lock (SIT)**
Press this key to lock the current site. The transceiver cannot search for alternate sites, and on K2/K3/K5/K6/K7 model transceivers, “SITE LOCK” appears on the display. Press and hold the **Site Lock** key for 2 seconds to unlock the transceiver to allow roaming again.
- **Speaker Attenuation**
Press this microphone key to attenuate received voice signals. This reduces the strength of the speaker output to cut back any noise and distortion present in the signal.
- **Squelch Level (SQL)**
Press this key to adjust the transceiver squelch level. When adjusting the squelch level, use the **Side 2** and **Side 3** keys or the **D>** and **<C** keys to increase and decrease the squelch level from 0 (open) to 9 (tight). The default setting is 5.

- **Squelch Off (MON)**
Press this key to turn the transceiver squelch off, to better hear weak signals on the channel. Press the **Squelch Off** key again to turn the transceiver squelch back on.
- **Squelch Off Momentary (MON)**
Press and hold this key to momentarily turn the transceiver squelch off. Releasing this key turns the transceiver squelch back on. While squelch is off, you can better hear weak signals on the channel.
- **Status (STS) <TK-5210/ TK-5310 only>**
Refer to “FleetSync: ALPHANUMERIC 2-WAY PAGING FUNCTION” on page 28 and “MAKING A STATUS CALL” on page 35.
- **System Search (SRC)**
Press this key to view the current Trunking site. With the site displayed, press and hold the **System Search** key again to enter Search mode. The transceiver begins searching for a new site and on K2/K3/K5/K6/K7 model transceivers, “SEARCH” appears on the display. When a site is found, searching ends and the transceiver switches to the new site.
- **Tactical Group (TAC) <TK-5210/ TK-5310 only>**
Press and hold this key for 1 second to register the selected channel as a Tactical Group channel. Press and hold this key for 3 seconds to register all channels within the current zone as Tactical Group channels.
- **Talk Around (TA)**
Press this key to toggle Talk Around ON and OFF. Talk Around redirects the transceiver signals directly to other party members rather than relaying the signals through a repeater.
- **Talkgroup (TGR)**
Refer to “MAKING GROUP CALLS” on page 21.

- **Tone (TON)**
Press this key to toggle the transceiver audible tones ON and OFF.
- **Vibrator (VIB) <TK-5210/ TK-5310 only>**
Press and hold this key for 1 second to toggle the vibrator function ON and OFF. When the vibrator is on, the transceiver will vibrate when a call is received.
- **VOX (VOX)**
Refer to “VOICE OPERATED TRANSMISSION (VOX)” on page 41.
- **Zeroize (ZER)**
Press and hold this key for the pre-programmed zeroize delay time, to delete the Encryption key.
- **Zone Down (ZN▼)**
Press this key to decrease the zone number {page 19}.
- **Zone Select**
Turn the selector clockwise to increase the zone number and counterclockwise to decrease it {page 19}.
- **Zone Up (ZN▲)**
Press this key to increase the zone number {page 19}.

BACKGROUND OPERATIONS

Your dealer can activate a variety of transceiver functions to perform without any additional operation on your part.

TIME-OUT TIMER (TOT)

The Time-out Timer can be activated only on Conventional channels. It is used 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 the TOT time in the range of 15 seconds to 20 minutes.

If programmed by your dealer, a pre-alert tone will sound before the timer expires. Also, if programmed by your dealer, you may have to wait for a short duration before you can continue to transmit. If you press the **PTT** switch before the timer has been reset, an alert tone will sound and the transceiver will not enter transmit mode.

BATTERY SAVER

The Battery Saver function can be activated only on Conventional channels. When activated, this function decreases the amount of power used when a signal is not being received and no operations are being performed (no keys are being pressed and no switches are being turned).

While the channel is not busy and no operation is performed for 5 seconds, Battery Saver activates. When a signal is received or an operation is performed, Battery Saver is disabled.

LOW BATTERY WARNING

Low Battery Warning alerts you when the battery needs to be recharged.

On all transceivers, your dealer can set an alert tone to sound and the LED indicator to blink red when the battery power is low. On K2/K3/K5/K6/K7 model transceivers, the battery power icon displays the battery power remaining, as illustrated below.



High



Sufficient



Low



Very low

When the battery power is very low, recharge or replace the battery pack.

SIGNAL STRENGTH INDICATOR (K2/K3/K5/K6/K7 MODELS ONLY)

The signal strength indicator displays the strength of received calls.



Strong signal



Sufficient signal




Weak signal



Very weak signal

COMPANDER

The compander can be programmed only for specific Conventional FM channels. If it has been programmed by your dealer, transmitted signals are compressed before being sent and received signals are expanded when they arrive.

- Your dealer must set the compander for both the transmit side and the receive side in order for the compander to operate.
- On K2/K3/K5/K6/K7 model transceivers, the  icon appears on the display for when the compander activates.

This background feature allows higher clarity of signals, avoiding excessive noise and interference. This feature is not used on digital channels, as they are not susceptible to noise and interference.

BUSY CHANNEL LOCKOUT (BCL)

On Conventional channels, if BCL is set up by your dealer, you will be unable to transmit on the channel if it is already in use. Under these circumstances, use a different channel or wait until the channel becomes free.

However, if BCL Override has also been programmed, you can transmit over the current signal:

- 1 Press and hold the **PTT** switch.
 - If the channel is already in use, a warning tone will sound.
- 2 Release the **PTT** switch, then press and hold the **PTT** switch again within half a second.
- 3 Speak into the transceiver as you would during a normal call.

OUT OF RANGE

On Trunking channels, if set up by your dealer, the transceiver will indicate when it is out of range. When it can no longer communicate with any site, an out of range tone sounds and on K2/K3/K5/K6/K7 model transceivers, "OUT OF RANGE" appears on the display.

SITE TRUNKING

On Trunking channels, if set up by your dealer, the transceiver will indicate a network condition on the registered site. On K2/K3/K5/K6/K7 model transceivers, "SITE TRUNK" appears on the display when the transceiver receives a network disabled message.

CONTROL CHANNEL HUNT

On Trunking channels, the transceiver must search for a control channel. While searching for a control channel, no signals can be received. The search begins automatically when you change to a Trunking channel.

- On K2/K3/K5/K6/K7 model transceivers, while hunting for a channel, the antenna icon will flash. When a control channel has been found, the antenna icon remains on the display without flashing.

VOICE ANNUNCIATION

When changing the zone and/or channel, an audio voice will announce the new zone and channel number. The Voice Annunciation will not function when using the VGS-1 option {page 55}. (Voice Annunciation can be enabled or disabled by your dealer.)

PTT ID

PTT ID is the transceiver unique ID code which is sent each time the PTT switch is pressed.

Note: PTT ID can be made only in FM Operation.

If Beginning of Transmit is set, the ID signal is transmitted when you press the **PTT** switch.

If End of Transmit is set, the ID signal is transmitted when you release the **PTT** switch.

If both are set, the ID signal is transmitted when you press and release the **PTT** switch.

VGS-1 OPTIONAL VOICE GUIDE & STORAGE UNIT


When using the optional VGS-1 voice guide & storage unit, you gain access to the voice recorder and voice announcement functions. Ask your dealer for details.

VOICE RECORDER (K2/K3/K5/K6/K7 MODELS ONLY)

The voice recorder provides you with an auto recorder to record your conversations and a voice memo function to create voice memos.

■ Auto Recording

If activated, the auto recording function will continuously record all transmitted and received signals. The recording storage area retains 30 seconds of recording, so all transmitted and received signals are simultaneously recorded and erased, leaving only the last 30 seconds of recording in memory.

- The  icon appears on the display when this function is activated.

■ Voice Memos

To record a voice memo, for later playback:

- 1 Press and hold the key programmed as **Playback** for 1 second.
 - The duration of recording memory will appear on the display and begin counting down.
- 2 Speak into the microphone to record your voice memo.
- 3 Press the **Side 1** key to end the recording at any time and store it into the transceiver memory.
 - If the memory becomes full, recording will stop automatically and store the voice memo to memory.

■ Playback

To play back a recorded conversation, memo, or message:

- 1 Press the key programmed as **Playback** to enter Playback mode.
 - If the last action on your transceiver was to auto record your conversation, “STORE?” will appear on the display, otherwise a recording channel with the time of the recording will appear.
- 2 Press the **Side 2** and **Side 3** keys to select the channel which you want to play back.
 - “AR” represents conversation records (auto recording).
 - “VM” represents voice memos.
- 3 The transceiver will announce the channel, then the recording will automatically play back.
 - When the entire recording has been played, “END OF MSG” is displayed.
 - To delete the selected recording, press the **<C** key. To clear all the recorded data, press and hold the **<C** key. A confirmation message will appear on the display. Press the **A** or DTMF * key to delete the recording(s) or any other key to cancel.

VOICE GUIDE

When changing the zone and/or channel, an audio voice will announce the new zone and channel number. Additionally, when changing a function setting, an audio voice will announce the new setting. (Voice announcements vary by dealer setting.)

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