YAESU
The radio

PCC-5000

REFERENCE BOOK

The PCC-5000 allows you to quickly and easily operate the Yaesu FTDX5000 HF/50 MHz Transceiver from your personal computer.

YAESU MUSEN CO., LTD.

PCC-5000 REFERENCE BOOK

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PCC-5000 SYSTEM COMPONENTS

❏ IBM® PC / compatible Computer with Microsoft® Windows® XP, Vista or Windows® 7

❏ 30 MB of available Hard Disk space

❏ 256 MB or more RAM

❏ RS-232C port

❏ 1024 x 768 color display with 256-bit color support on the video card

FTDX5000 AND COMPUTER INTERCONNECTIONS

COM

CAT

RS-232C "Straght" Cable

"PCC-5000" PERSONAL COMPUTER CONTROLLER WINDOW

PCC-5000 REFERENCE BOOK

OPENING/CLOSING THE PCC-5000 CONTROLLER PROGRAM

OPENING THE PCC-5000 PROGRAM

Double click the left mouse button on the "PCC-5000" icon. The logo will appear for three seconds; afterwards the "PCC-5000" Personal Computer Controller will be opened.
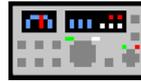
"PCC-5000" icon

CLOSING THE PCC-5000 PROGRAM

Close button

To close the "PCC-5000" Personal Computer Controller:

☐ Click the left mouse button on the Close Button "⊠" on the "PCC-5000" Personal Computer Controller.

☐ Click the left mouse button on the "Exit" parameter in the "File" menu on the "PCC-5000" Personal Computer Controller.

☐ Press the [**ESC**] button on the keyboard.
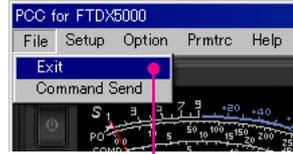
"EXIT" parameter

COM PORT SELECT

☐ Click the left mouse button on the "COM Select" parameter in the "Setup" menu on the "PCC-5000" Personal Computer Controller to open the "COM Select" pop-up window.

☐ Click the left mouse button on the communication port which is connected to the RS-232C cable which is connected to the FTDX5000.

☐ Click the left mouse button on the [**OK**] button to save new setting and close the "COM Select" window.
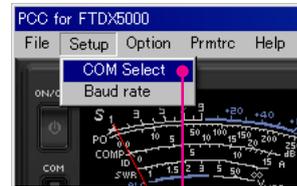
"COM Select" parameter

DATA CONNECTION

☐ Click the left mouse button on the [**COM**] button of the "PCC-5000" Personal Computer Controller to enable computer control. The yellow indicator will glow.

☐ Click the left mouse button on the [**COM**] button of the "PCC-5000" Personal Computer Controller again to disable computer control. The yellow indicator will go out.

Advice: You may operate the [**ON/OFF**] button of the "PCC-5000" Personal Computer Controller, even if the yellow COM indicator turns off.

[**OK**] button

[**COM**] button

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SWITCHING POWER ON/OFF OF THE FTDX5000

Click the left mouse button on the [**ON/OFF**] button of the "PCC-5000" Personal Computer Controller to turn the transceiver "On" and "Off."

Note: the transceiver's rear panel Power switch must already have been turned on manually.

[**ON/OFF**] button

AF GAIN CONTROL

VFO-A AF GAIN

Click the left mouse button on the VFO-A [**AF GAIN**] knob (this turns the color of the "AF GAIN" image yellow), then turn the mouse scroll or press the left/right buttons to adjust the audio for a comfortable listening level.

VFO-B AF GAIN

Click the left mouse button on the VFO-B [**AF GAIN**] knob (this turns the color of the sub "AF GAIN" image yellow), then turn the mouse scroll or press the left/right buttons to adjust the audio for a comfortable listening level.

VFO-B [**AF GAIN**] knob   VFO-A [**AF GAIN**] knob

SQL LEVEL CONTROL

VFO-A SQL LEVEL

Click the left mouse button on the VFO-A [**SQL**] knob (this turns the color of the "SQL" image yellow), then turn the mouse scroll, or press the left/right buttons, to adjust the squelch threshold level.

VFO-B SQL LEVEL

Click the left mouse button on the VFO-B [**SQL**] knob (this turns the color of the sub "SQL" image yellow), then turn the mouse scroll, or press the left/right buttons, to adjust the squelch threshold level.

VFO-B [**SQL**] knob   VFO-A [**SQL**] knob

PCC-5000 REFERENCE BOOK

FREQUENCY NAVIGATION ON THE VFO-A

MAIN TUNING DIAL KNOB

❒ Bring the mouse cursor to the Main Tuning Dial knob, then turn the mouse scroll to tune the VFO-A frequency.

❒ Press and hold in the left mouse button on the edge of the Main Tuning Dial knob, then rotate the mouse, to tune the VFO-A frequency while holding in the left mouse button.

Main Tuning Dial knob

DIRECT FREQUENCY DIGIT SET

1. Click the left mouse button on the frequency digit which you wish to change on the VFO-A frequency. The frequency digit will change to Orange.

2. Turn the mouse scroll to tune the frequency digit of the VFO-A frequency.

3. Click the left mouse button to terminate the frequency change. The frequency digit will return to Blue.

Frequency Digit

[▼(DOWN)]/[▲(UP)] BUTTONS

❒ Click the left mouse button on the [▼(**DOWN**)] button to turn down the VFO-A frequency in 100 kHz step.

❒ Click the left mouse button on the [▲(**UP**)] button to turn up the VFO-A frequency in 100 kHz step.

[**DOWN**] button   [**UP**] button

BAND CHANGE

Click the left mouse button on the [**BAND**] button corresponding to the Amateur on which you wish to operate.

BAND keys

DIRECT KEYPAD FREQUENCY ENTRY

1. Click the left mouse button on the [**ENT**] button of the BAND keys. The "VFO SET" window will open.

2. Enter a frequency directly from the BAND keys or computer's keyboard. Available entry values are 30000 - 60000000 (300 Hz - 60 MHz).

3. Click the left mouse button on the [**OK**] button of the "VFO SET" window or press the computer's [**ENTER**] key to terminate the frequency entry.

[**ENT**] button

"VFO SET" window

[**OK**] button

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FREQUENCY NAVIGATION ON THE VFO-B

[VFO-B] KNOB

❒ Click the left mouse button on the [**A/B**] button to enable the [**CLAR**(**VFO-B**)] knob. The orange LED in the [**A/B**] button is illuminated. Bring the mouse cursor to the [**CLAR**(**VFO-B**)] knob, then turn the mouse scroll to tune the VFO-B frequency.

❒ Click the left mouse button on the [**A/B**] button to enable the [**CLAR**(**VFO-B**)] knob. The orange LED in the [**A/B**] button is illuminated. Press and hold in the left mouse button on the edge of the [**CLAR**(**VFO-B**)] knob, then rotate the mouse, to tune the VFO-B frequency while holding in the left mouse button.

[**A/B**] button

[**CLAR**(**VFO-B**)] knob

DIRECT FREQUENCY DIGIT SET

1. Click the left mouse button on the frequency digit which you wish to change on the VFO-B frequency. The frequency digit will change to Orange.

2. Turn the mouse scroll to tune the frequency digit of the VFO-B frequency.

Frequency Digit

[▼(DOWN)]/[▲(UP)] BUTTONS

❒ Click the left mouse button on the [**B**] button. The [**B**] button will change to Orange.

❒ Click the left mouse button on the [▼(**DOWN**)] button to turn down the VFO-B frequency in 100 kHz step.

❒ Click the left mouse button on the [▲(**UP**)] button to turn up the VFO-B frequency in 100 kHz step.

[**B**] button

[**DOWN**] button   [**UP**] button

BAND CHANGE

Click the left mouse button on the [**B**] button (the [**B**] button will change to Orange), then click the left mouse button on the [**BAND**] button corresponding to the Amateur band on which you wish to operate.

[**B**] button

BAND keys

PCC-5000 REFERENCE BOOK

FREQUENCY NAVIGATION ON THE VFO-B

DIRECT KEYPAD FREQUENCY ENTRY

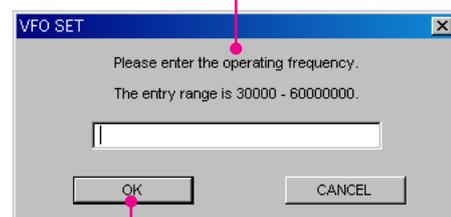1. Click the left mouse button on the [**B**] button (the [**B**] button will change to Orange), then click the left mouse button on the [**ENT**] button of the BAND keys. The "VFO SET" window will open.

2. Enter a frequency directly by the BAND keys or computer's keyboard. Available entry values are 30000 - 60000000 (300 Hz - 60 MHz).

3. Click the left mouse button on the [**OK**] button of the "VFO SET" window or press the computer's [**ENTER**] key to terminate the frequency entry.

[**B**] button

[**ENT**] button

"VFO " window
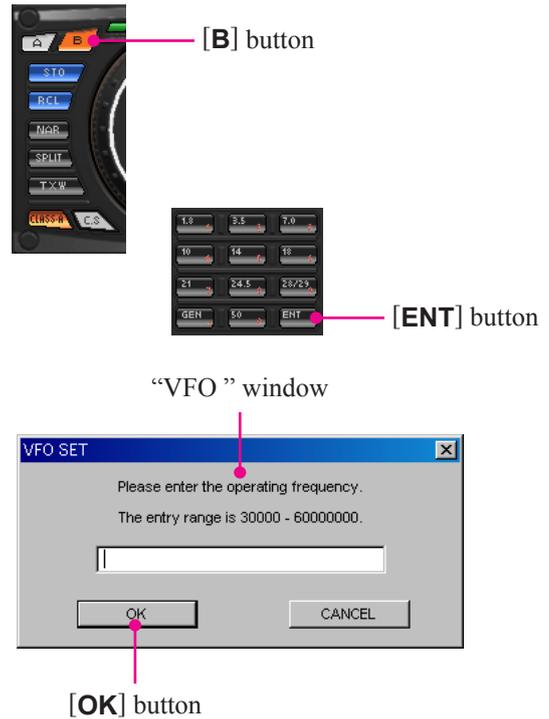
[**OK**] button

MODE SWITCH

❒ Click the left mouse button on the [**MODE**] button to select the desired operating mode for the VFO-A.

❒ Click the left mouse button on the [**B**] button, then click the left mouse button on the [**MODE**] button to select the desired operating mode for the VFO-B.

Note:

❍ Click the [**CW**] button repeatedly to toggle the operating mode between the "CW-U" and "CW-L" selections (CW with Upper Sideband or Lower Sideband BFO injection).

❍ Click the [**AM/FM**] button to toggle the operating mode between "AM" (inside of the button glows red) and "FM" (inside of the button glows orange).

❍ Click the [**RTTY**] button to toggle the operating mode between "RTTY-U" and "RTTY-L."

❍ Click the [**PKT**] button to toggle the operating mode between "PKT-U," "PKT-L," and "PKT-FM."

MODE key's
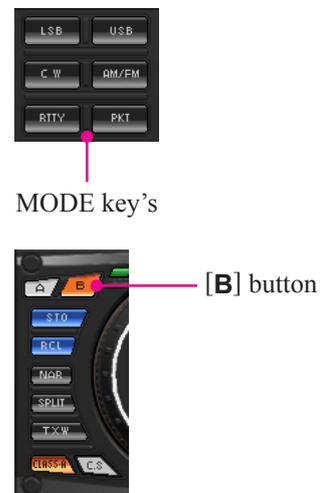
[**B**] button

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CLARIFIER OPERATION

[RX CLAR/FAST] SWITCH

1. Click the left mouse button on the [**CLAR**] button (the [**CLAR**] button will change to Red).
2. Click the left mouse button on the [**RX CLAR**] button to turn the RX Clarifier on and off.

[TX CLAR/LOCK] SWITCH

1. Click the left mouse button on the [**CLAR**] button (the [**CLAR**] button will change to Red).
2. Click the left mouse button on the [**TX CLAR**] button to turn the TX Clarifier on and off.

CLEAR SWITCH

Click the left mouse button on the [**CLEAR**] button to clear the Clarifier offset frequency (thereby setting the offset to "Zero").

[CLAR(VFO-B)] KNOB

❒ Click the left mouse button on the [**CLAR**(**VFO-B**)] knob, then turn the mouse scroll to tune the Clarifier offset frequency.
❒ Press and hold in the left mouse button on the edge of the [**CLAR**(**VFO-B**)] knob, then rotate the mouse to tune the Clarifier offset frequency while holding in the left mouse button.

[**RX CLAR/FAST**] button
[**CLEAR**] button
[**TX CLAR/LOCK**] button

[**CLAR**] button

[**CLAR**(**VFO-B**)] knob

AUDIO PLAYBACK FEATURE

RECORDING

1. Click the left mouse button on the "Playback" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "Playback" pop-up window.
2. Click the left mouse button on the [**REC**] button of the Audio Playback feature to initiate recording.
3. Click the left mouse button on the [**STOP**] button of the Audio Playback feature to stop recording.

PLAYBACK

1. Click the left mouse button on the "Playback" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "Playback" pop-up window.
2. Click the left mouse button on the [**PLAY**] button of the Audio Playback feature to begin playback of the recorded audio.
3. Click the left mouse button on the [**STOP**] button of the Audio Playback feature to stop the playback.

"Playback" parameter

Window Close button
[**STOP**] button
[**REC**] button

"Playback" window   [**PLAY**] button
[**STOP**] button

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VOICE MEMORY FEATURE

RECORDING

1. Select the LSB, USB, AM, or FM mode using the [**MODE**] button.
2. Click the left mouse button on the "Playback" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "Playback" pop-up window.
3. Click the left mouse button on the desired Memory Channel button (REC [**Ch-1**] ~ REC [**Ch-5**]) for the Voice Memory feature to initiate recording.
4. Click the left mouse button on the [**STOP**] button for the Voice Memory feature to stop recording.

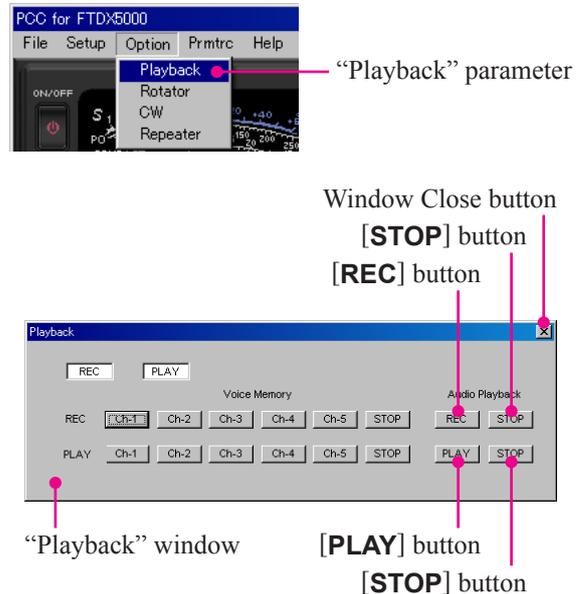### PLAYBACK

1. Click the left mouse button on the "Playback" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "Playback" pop-up window.
2. Click the left mouse button on the desired Memory Channel button (PLAY [**Ch-1**] ~ PLAY [**Ch-5**]) for the Voice Memory feature to begin playback of the recorded audio.
3. Click the left mouse button on the [**STOP**] button for the Voice Memory feature to stop the playback.

TRANSMITTING

1. Click the left mouse button on the [**BK-IN**] button. The "**BK-IN**" icon will appear in the display.
2. Click the left mouse button on the "Playback" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "Playback" pop-up window.
3. Click the left mouse button on the desired Memory Channel button (PLAY [**Ch-1**] ~ PLAY [**Ch-5**]) for the Voice Memory feature to begin transmitting of the recorded audio.
4. Click the left mouse button on the [**STOP**] button for the Voice Memory feature to stop the transmitting.

MODE key's

"Playback" parameter
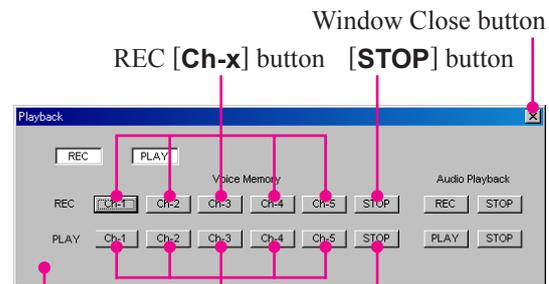
Window Close button
REC [**Ch-x**] button   [**STOP**] button

PLAY [**Ch-x**] button   [**STOP**] button
"Playback" window

[**BK-IN**] button

ANTENNA SELECTION

VFO-A ANTENNA

❒ Click the left mouse button on the [**ANT 1-4**] button to open the "ANT" pop-up window, then select the antenna on which you wish to operate.
❒ To use the RX ANT, repeatedly click the left mouse button on the [**RX ANT**] button to turn the RX antenna on and off.

VFO-B ANTENNA

❒ Click the left mouse button on the [**B**] button. The [**B**] button will change to Orange.
❒ Click the left mouse button on the [**ANT 1-4**] button to open the "ANT" pop-up window, then select the antenna on which you wish to operate.
❒ To use the RX ANT, repeatedly click the left mouse button on the [**RX ANT**] button to turn the RX antenna on and off.

[**RX ANT**] button   [**ANT 1-4**] button

"Antenna" window

[**B**] button

[**RX ANT**] button   [**ANT 1-4**] button

"Antenna" window

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IPO (INTERCEPT POINT OPTIMIZATION)

VFO-A IPO

❒ Click the left mouse button on the [**IPO**] button to open the "IPO" pop-up window, then select the front-end system you wish to use (**AMP1**, **AMP2**, **IPO1**, and **IPO2**).

[**IPO**] button

"IPO" window
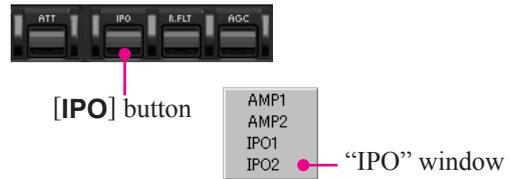
VFO-B IPO

❒ Click the left mouse button on the [**B**] button. The [**B**] button will change to Orange.

❒ Click the left mouse button on the [**IPO**] button to open the "IPO" pop-up window, then select the front-end system you wish to use (**AMP1**, **AMP2**, and **IPO1**).

[**B**] button

[**IPO**] button

"IPO" window
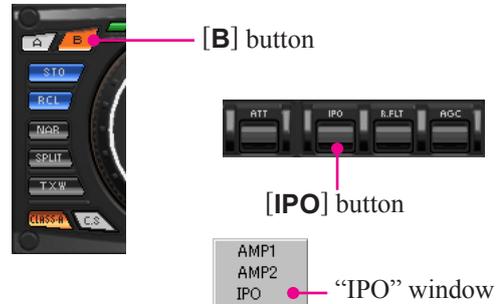
ATT (ATTENUATOR)

VFO-A ATT

❒ Click the left mouse button on the [**ATT**] button to open the "ATT" pop-up window, then select the attenuation level which you wish to utilize.

[**ATT**] button

"ATT" window

VFO-B ATT

❒ Click the left mouse button on the [**B**] button. The [**B**] button will change to Orange.

❒ Click the left mouse button on the [**ATT**] button to open the "ATT" pop-up window, then select the attenuation level which you wish to utilize.

[**B**] button

[**ATT**] button

"ATT" window
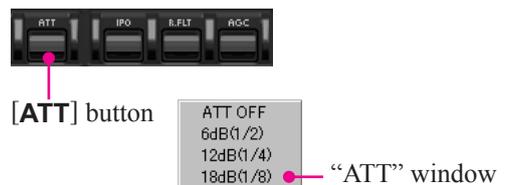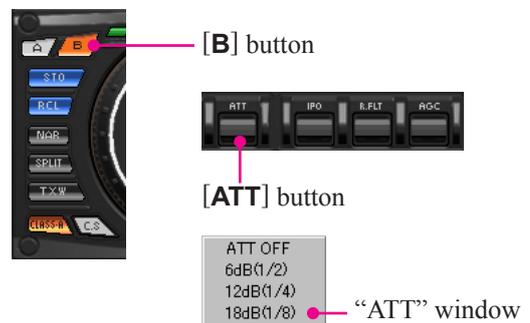
RF GAIN CONTROL

VFO-A RF GAIN

Click the left mouse button on the VFO-A [**RF GAIN**] knob (the indication color of "RF GAIN" will turn yellow), then turn the mouse scroll or press the left/right buttons to adjust the RF gain.

VFO-B RF GAIN

Click the left mouse button on the VFO-B [**RF GAIN**] knob (the indication color of "RF GAIN" will turn yellow), then turn the mouse scroll or press the left/right buttons to adjust the RF gain.

VFO-B [**RF GAIN**] knob   VFO-A [**RF GAIN**] knob

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VRF (VARIABLE RF FRONT-END FILTER) /µ-TUNE OPERATION

VFO-A VRF/µ-TUNE

1. Click the left mouse button on the [**VRF/µ-T**] button to toggle the configuration of the RF suppression among "**VRF**", "**µ-TUNE**"※, and "**THRU**". Indicates the configuration of the RF suppression at the FLT column of the Block Diagram Display and indicates the relative skew of the RF suppression in the Sub Window.

    VRF: Turns the VRF filter on.

    µ-TUNE: Turns the optional µ-TUNE filter※ on.

    THRU: Turns the VRF filter and optional µ-TUNE filter※ off.

2. When you have set the [**VRF/µ-T**] button to "**VRF**" or "**µ-TUNE**"※, the inside of the [**VRF/µ-T**] button glows Red:

    ❐ Bring the mouse cursor to the (**VFO-A**)[**SELECT**] knob, then turn the mouse scroll to move the passband of the VRF or µ-TUNE filter※.

    ❐ Press and hold in the left mouse button on the edge of the (**VFO-A**)[**SELECT**] knob, then rotate the mouse to move the passband of the VRF or µ-TUNE filter※ while holding the left mouse button.

3. Click the left mouse button on the [**RESET**] button to move the passband of the VRF filter and optional µ-TUNE filter※ to center of the current Amateur band.

※: The µ-TUNE filter is optional.

Sub Window

[**VRF/µ-T**] button

[**RESET**] button

(**VFO-A**)[**SELECT**] knob
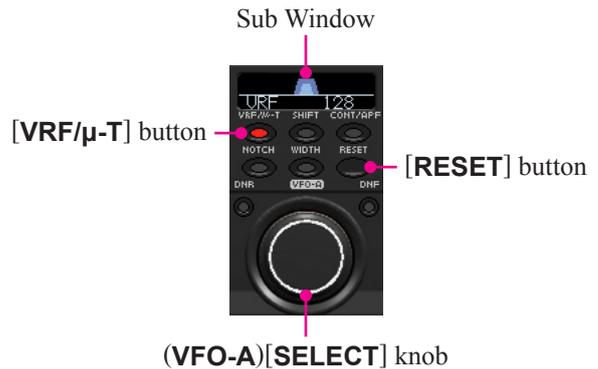
VFO-B VRF

1. Click the left mouse button on the [**VRF**] button to toggle the VRF filter "on and "off". Indicates the configuration of the RF suppression at the FLT column of the Block Diagram Display and indicates the relative skew of the RF suppression in the Sub Window.

    VRF: Turns the VRF filter on.

    THRU: Turns the VRF filter off.

2. When you have set the [**VRF**] button to "on", the inside of the [**VRF**] button glows Orange:

    ❐ Bring the mouse cursor to the (**VFO-B**)[**SELECT**] knob, then turn the mouse scroll to move the passband of the VRF filter.

    ❐ Press and hold in the left mouse button on the edge of the (**VFO-B**)[**SELECT**] knob, then rotate the mouse to move the passband of the VRF filter while holding the left mouse button.

3. Click the left mouse button on the [**RESET**] button to move the passband of the VRF filter to center of the current Amateur band.

Sub Window

[**VRF**] button

[**RESET**] button

(**VFO-B**)[**SELECT**] knob

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ROOFING FILTER SELECTION

VFO-A ROOFING FILTER

❒ Click the left mouse button on the [**R.FLT**] button to open the "Roofing Filter" pop-up window, then select the bandwidth you wish to utilize (**AUTO**, **300Hz**, **600Hz**, **3kHz**, **6kHz**, and **15kHz**).

[**R.FLT**] button

"R.FLT" window

VFO-B ROOFING FILTER

❒ Click the left mouse button on the [**B**] button. The [**B**] button will change to Orange.

❒ Click the left mouse button on the [**R.FLT**] button to open the "Roofing Filter" pop-up window, then select the bandwidth you wish to utilize (**AUTO**, **3kHz**, **6kHz**, and **15kHz**).

[**B**] button

[**R.FLT**] button

"R.FLT" window

CONTOUR FILTER OPERATION

VFO-A CONTOUR

1. Click the left mouse button on the [**CONT/APF**] button to turn the Contour filter "on" and "off". The Contour filter characteristic will appear in the Sub Window.
   When the Contour filter is set to "on", inside of the [**CONT/APF**] button glows Red.

2. Click the left mouse button on the edge of the (**VFO-A**) [**SELECT**] knob, then turn the mouse scroll to adjust the center frequency of the Contour filter.
   Or, press and hold in the left mouse button on the edge of the (**VFO-A**)[**SELECT**] knob, then rotate the mouse to adjust the center frequency of the Contour filter.

Sub Window

[**CONT/APF**] button

(**VFO-A**)[**SELECT**] knob

VFO-B CONTOUR

1. Click the left mouse button on the [**CONT/APF**] button to turn the Contour filter "on" and "off". The Contour filter characteristic will appear in the Sub Window.
   When the Contour filter is set to "on", inside of the [**CONT/APF**] button glows Orange.

2. Click the left mouse button on the edge of the (**VFO-B**) [**SELECT**] knob, then turn the mouse scroll to adjust the center frequency of the Contour filter.
   Or, press and hold in the left mouse button on the edge of the (**VFO-B**)[**SELECT**] knob, then rotate the mouse to adjust the center frequency of the Contour filter.

Sub Window

[**CONT/APF**] button

(**VFO-B**)[**SELECT**] knob

APF OPERATION (CW MODE ONLY)

If you have set the CW mode, the APF (Audio Peak Filter) feature appears when clicking the [**CONT/APF**] button: it provides a very narrow audio bandwidth. The bandwidth over which the APF (Audio Peak Filter) effect is applied may be adjusted using Menu item "#112 RDSP APF WDTH". You may adjust the peak frequency by a same method as the CONT operation.

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IF SHIFT OPERATION

VFO-A IF SHIFT

1. Click the left mouse button on the [**SHIFT**] button (inside of the button glows Red). The center position of the IF passband will appear in the Sub Window. The (**VFO-A**) [**SELECT**] knob will now function as the IF SHIFT knob.
2. Click the left mouse button on the edge of the (**VFO-A**) [**SELECT**] knob, then turn the mouse scroll to move the filter passband.
   Or, press and hold in the left mouse button on the edge of the (**VFO-A**)[**SELECT**] knob, then rotate the mouse to move the filter passband.
3. Click the left mouse button on the [**RESET**] button to move the filter passband to center.
4. To disable the IF SHIFT operation, click the left mouse button on the [**SHIFT**] button again. The Red [**SHIFT**] button will turn off, and move the filter passband to center (but not change the Sub Window display).

Sub Window

[**SHIFT**] button

[**RESET**] button
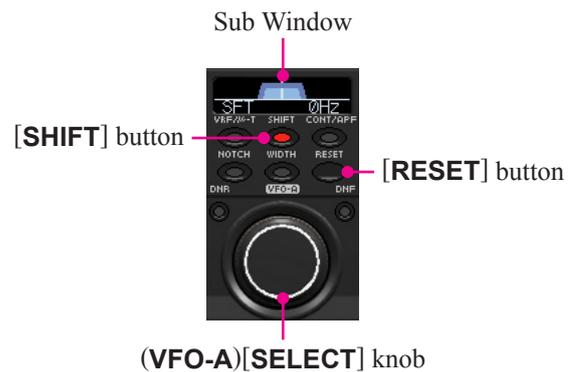
(**VFO-A**)[**SELECT**] knob

VFO-B IF SHIFT

1. Click the left mouse button on the [**SHIFT**] button (inside of the button glows Orange). The center position of the IF passband will appear in the Sub Window. The (**VFO-B**) [**SELECT**] knob will now function as the IF SHIFT knob.
2. Click the left mouse button on the edge of the (**VFO-B**) [**SELECT**] knob, then turn the mouse scroll to move the filter passband.
   Or, press and hold in the left mouse button on the edge of the (**VFO-B**)[**SELECT**] knob, then rotate the mouse to move the filter passband.
3. Click the left mouse button on the [**RESET**] button to move the filter passband to center.
4. To disable the IF SHIFT operation, click the left mouse button on the [**SHIFT**] button again. The Orange [**SHIFT**] button will turn off, and move the filter passband to center (but not change the Sub Window display).

Sub Window

[**SHIFT**] button

[**RESET**] button
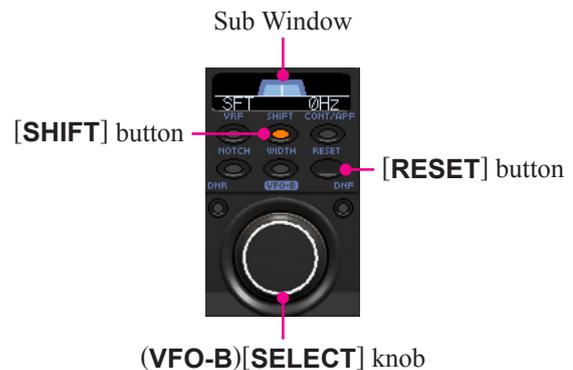
(**VFO-B**)[**SELECT**] knob

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WIDTH Operation

VFO-A WIDTH
1. Click the left mouse button on the [**WIDTH**] button (inside of the button glows Red). The current bandwidth will appear in the Sub Window. The (**VFO-A**)[**SELECT**] knob will now function as the WIDTH knob.
2. Click the left mouse button on the edge of the (**VFO-A**) [**SELECT**] knob, then turn the mouse scroll to adjust the filter bandwidth.
Or, press and hold in the left mouse button on the edge of the (**VFO-A**)[**SELECT**] knob, then rotate the mouse to adjust the filter bandwidth.
3. Click the left mouse button on the [**RESET**] button to set the bandwidth to default.
4. To disable the WIDTH operation, click the left mouse button on the [**WIDTH**] button again. The Red [**WIDTH**] button will turn off, and set the bandwidth to default (but not change the Sub Window display).

Sub Window

[**WIDTH**] button — [**RESET**] button

(**VFO-A**)[**SELECT**] knob

VFO-B WIDTH
1. Click the left mouse button on the [**WIDTH**] button (inside of the button glows Orange). The current bandwidth will appear in the Sub Window. The (**VFO-B**)[**SELECT**] knob will now function as the WIDTH knob.
2. Click the left mouse button on the edge of the (**VFO-B**) [**SELECT**] knob, then turn the mouse scroll to adjust the filter bandwidth.
Or, press and hold in the left mouse button on the edge of the (**VFO-B**)[**SELECT**] knob, then rotate the mouse to adjust the filter bandwidth.
3. Click the left mouse button on the [**RESET**] button to set the bandwidth to default.
4. To disable the WIDTH operation, click the left mouse button on the [**WIDTH**] button again. The Orange [**WIDTH**] button will turn off, and set the bandwidth to default (but not change the Sub Window display).

Sub Window

[**WIDTH**] button — [**RESET**] button
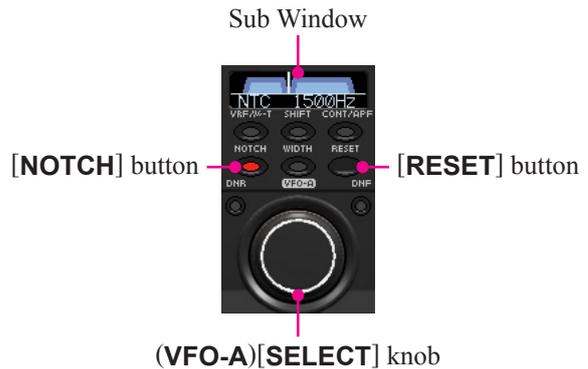
(**VFO-B**)[**SELECT**] knob

PCC-5000 Reference Book

IF NOTCH Operation

VFO-A IF NOTCH

1. Click the left mouse button on the [**NOTCH**] button (inside of the button glows Red). The current "null" (or "Peak") position of the IF NOTCH filter will appear in the Sub Window. The (**VFO-A**)[**SELECT**] knob will now function as the NOTCH knob.
2. Click the left mouse button on the edge of the (**VFO-A**)[**SELECT**] knob, then turn the mouse scroll to adjust the center frequency of the IF NOTCH filter.
   Or, press and hold in the left mouse button on the edge of the (**VFO-A**)[**SELECT**] knob, then rotate the mouse to adjust the center frequency of the IF NOTCH filter.
3. Click the left mouse button on the [**RESET**] button to move the "null" (or "Peak") position to center.
4. To disable the IF NOTCH filter, click the left mouse button on the [**NOTCH**] button again. The Red [**NOTCH**] button will turn off, and set the bandwidth to default (but not change the Sub Window display).

Sub Window

[**NOTCH**] button   [**RESET**] button

(**VFO-A**)[**SELECT**] knob

VFO-B IF NOTCH

1. Click the left mouse button on the [**NOTCH**] button (inside of the button glows Orange). The current "null" (or "Peak") position of the IF NOTCH filter will appear in the Sub Window. The (**VFO-B**)[**SELECT**] knob will now function as the NOTCH knob.
2. Click the left mouse button on the edge of the (**VFO-B**)[**SELECT**] knob, then turn the mouse scroll to adjust the center frequency of the IF NOTCH filter.
   Or, press and hold in the left mouse button on the edge of the (**VFO-B**)[**SELECT**] knob, then rotate the mouse to adjust the center frequency of the IF NOTCH filter.
3. Click the left mouse button on the [**RESET**] button to move the "null" (or "Peak") position to center.
4. To disable the IF NOTCH filter, click the left mouse button on the [**NOTCH**] button again. The Orange [**NOTCH**] button will turn off, and set the bandwidth to default (but not change the Sub Window display).

Sub Window

[**NOTCH**] button   [**RESET**] button

(**VFO-B**)[**SELECT**] knob

Digital Notch Filter (DNF) Operation

VFO-A Digital Notch Filter (DNF)

Click the left mouse button on the [**DNF**] button to turn the Digital Notch Filter "on" and "off". When the Digital Notch Filter is set to "on", inside of the button glows Red.

[**DNF**] button

VFO-B Digital Notch Filter (DNF)

Click the left mouse button on the [**DNF**] button to turn the Digital Notch Filter "on" and "off". When the Digital Notch Filter is set to "on", inside of the button glows Orange.

[**DNF**] button

PCC-5000 REFERENCE BOOK

DIGITAL NOISE REDUCTION (DNR) OPERATION

VFO-A DIGITAL NOISE REDUCTION (DNR)

1. Click the left mouse button on the [**DNR**] button (the inside of the button glows Red). The current noise-reduction algorithm will appear in the Sub Window. The (**VFO-A**) [**SELECT**] knob will now function as the DNR knob.

2. Click the left mouse button on the edge of the (**VFO-A**) [**SELECT**] knob, then turn the mouse scroll to select the setting that most effectively reduces the noise level.
   Or, press and hold in the left mouse button on the edge of the (**VFO-A**)[**SELECT**] knob, then rotate the mouse to select the setting that most effectively reduces the noise level.

3. Click the left mouse button on the [**RESET**] button to set the noise-reduction algorithm to default.

4. To disable the Digital Noise Reduction operation, click the left mouse button on the [**DNR**] button again. The Red [**DNR**] button will turn off, and set the noise-reduction algorithm to default (but not change the Sub Window display).

Sub Window

[**DNR**] button   [**RESET**] button

(**VFO-A**)[**SELECT**] knob

VFO-B DIGITAL NOISE REDUCTION (DNR)

1. Click the left mouse button on the [**DNR**] button (the inside of the button glows Orange). The current noise-reduction algorithm will appear in the Sub Window. The (**VFO-B**) [**SELECT**] knob will now function as the DNR knob.

2. Click the left mouse button on the edge of the (**VFO-B**) [**SELECT**] knob, then turn the mouse scroll to select the setting that most effectively reduces the noise level.
   Or, press and hold in the left mouse button on the edge of the (**VFO-B**)[**SELECT**] knob, then rotate the mouse to select the setting that most effectively reduces the noise level.

3. Click the left mouse button on the [**RESET**] button to set the noise-reduction algorithm to default.

4. To disable the Digital Noise Reduction operation, click the left mouse button on the [**DNR**] button again. The Orange [**DNR**] button will turn off, and set the noise-reduction algorithm to default (but not change the Sub Window display).

Sub Window

[**DNR**] button   [**RESET**] button

(**VFO-B**)[**SELECT**] knob

NAR (One-Touch Narrow IF Filter Selection)

VFO-A One-Touch Narrow IF Filter Selection

1. Click the left mouse button on the [**NAR**] button to engage the preset "Narrow" IF filter selection. When the narrow bandwidth is engaged, the "NAR" indication will appear in the display.
2. Click the left mouse button on the [**NAR**] button again; the bandwidth will revert to that set by the [**WIDTH**] knob.

[**NAR**] button

VFO-B One-Touch Narrow IF Filter Selection

1. Click the left mouse button on the [**B**] button. The [**B**] button will change to Orange.
2. Click the left mouse button on the [**NAR**] button to toggle the bandwidth between "Wide" and "Narrow." When the "Narrow" option is selected, the "NAR" icon will appear in the display.
3. Click the left mouse button on the [**NAR**] button again; the bandwidth will revert to that set by the [**WIDTH**] knob.

[**B**] button

[**NAR**] button
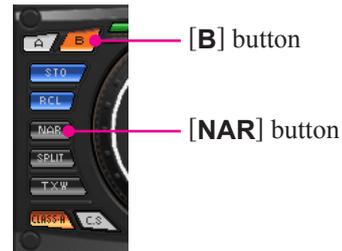
Noise Blanker Operation

VFO-A Noise Blanker

1. Click the left mouse button on the [**NB**] button to open the "NB" pop-up window, then select the configuration you wish to use.
   NB OFF: Turns the Noise Blanker off.
   NB ON: Turns the Noise Blanker on (for short-duration pulses).
   NB-W ON: Turns the Noise Blanker on (for longer-duration pulses).
2. When you have set the [**NB**] button to "NB ON" or "NB-W ON", click the left mouse button on the (**VFO-A**)[**NB**] knob, then turn the mouse scroll or press the left/right buttons to select the noise blanking level.

[**NB**] button

"NB" window

VFO-A [**NB**] knob

VFO-B Noise Blanker

1. Click the left mouse button on the [**B**] button. The [**B**] button will change to Orange.
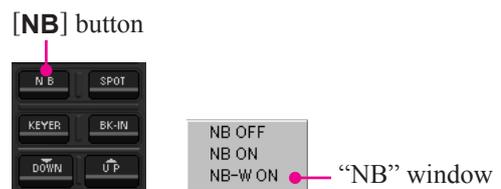2. Click the left mouse button on the [**NB**] button to open the "NB" pop-up window; now select the configuration you wish to use.
   NB OFF: Turns the Noise Blanker off.
   NB ON: Turns the Noise Blanker on (for short-duration pulses).
   NB-W ON: Turns the Noise Blanker on (for longer-duration pulses).
2. When you have set the [**NB**] button to "NB ON" or "NB-W ON", click the left mouse button on the (**VFO-B**)[**NB**] knob, then turn the mouse scroll or press the left/right buttons to select the desired noise blanking level.

[**B**] button

[**NB**] button

"NB" window

VFO-B [**NB**] knob

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AGC

VFO-B AGC

Click the left mouse button on the [**AGC**] button to open the "AGC" pop-up window, then select the desired receiver-recovery time.

[**AGC**] button

"AGC" window

VFO-B AGC
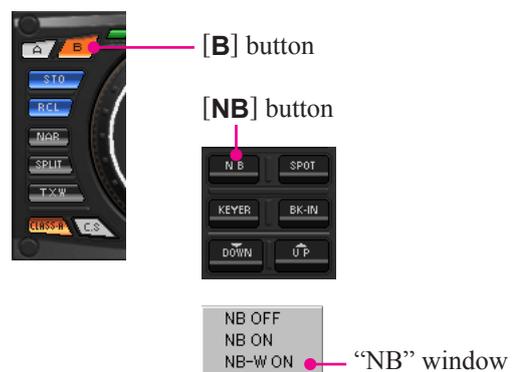
Click the left mouse button on the [**B**] button (the [**B**] button will change to Orange), and then click the left mouse button on the [**AGC**] button to open the "AGC" pop-up window; now select the desired receiver-recovery time.

[**B**] button

[**AGC**] button

"AGC" window

LOCK FEATURE

VFO-A LOCK

Click the left mouse button on the [**LOCK**] button to turn the Main Tuning Dial knob Lock "on" and "off". When the Main Tuning Dial knob is set to be locked, the "LOCK" icon will appear in the display.

[**LOCK**] button

VFO-B LOCK

Click the left mouse button on the [**A/B**] button (the inside of the button glows Orange), then Click the left mouse button on the [**TX CLAR/LOCK**] button to turn the [**CLAR**(**VFO-B**)] knob Lock "on" and "off". When the [**CLAR**(**VFO-B**)] knob is set to be locked, the "LOCK" icon will appear in the display.

[**TX CLAR/LOCK**] button
[**A/B**] button

VOX OPERATION

1. Click the left mouse button on the [**VOX**] button to turn the VOX circuit on and off. When the VOX circuit is set to on, the inside of the button glows Red.
2. Click the left mouse button on the [**VOX**] knob (the indication color of "VOX" will turn yellow), then turn the mouse scroll or press the left/right buttons to adjust the VOX gain.
3. Click the left mouse button on the [**DELAY**] knob (the indication color of "DELAY" will turn yellow), then turn the mouse scroll or press the left/right buttons to adjust the hang time of the VOX circuit.

[**VOX**] button

[**VOX**] knob
[**DELAY**] knob

PCC-5000 REFERENCE BOOK

USING THE SPEECH PROCESSOR

1. Click the left mouse button on the [**PROC**] button to open the "PROCESSOR" pop-up window, then select the "**PROC**".

   OFF: Turns the Speech Processor/Parametric Microphone Equalizer "off".

   MIC-EQ: Turns the Parametric Microphone Equalizer.
   Adjust the characteristic of the Parametric Microphone Equalizer by the "Premtrc" menu in advance. Refer to page 21 for details.

   PROC: Turns the Speech Processor on, with the Parametric Microphone Equalizer.
   Adjust the characteristic of the Parametric Microphone Equalizer by the "Premtrc" menu in advance. Refer to page 21 for details.

2. Click the left mouse button on the [**PROC**] knob (the indication color of "PROC" will turn yellow), then turn the mouse scroll or press the left/right buttons to select the Compression level.

[**PROC**] button
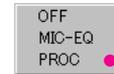
"PROCESSOR" window

[**PROC**] knob

USING THE MONITOR

1. Click the left mouse button on the [**MONI**] button to turn the Monitor circuit on and off. When the Monitor is set to on, the "MONI" icon will appear in the display.

2. Click the left mouse button on the [**MONI**] knob (the indication color of "MONI" will turn yellow), then turn the mouse scroll or press the left/right buttons to adjust the Monitor level.

[**MONI**] button

[**MONI**] knob

PCC-5000 REFERENCE BOOK

PARAMETRIC MICROPHONE EQUALIZER ADJUSTMENT

1. Click the left mouse button on the "Prmtrc" menu on the "PCC-5000" Personal Computer Controller to open the "Parametric" pop-up window, then select the configuration you wish to use.

   Prmtric: Adjust the characteristic of the Parametric Microphone Equalizer when the Speech Processor is disabled.

   P-Prmtric: Adjust the characteristic of the Parametric Microphone Equalizer when the Speach Processor is enabled.

   "Parametric" window

2. When click the left mouse button on the "Prmtrc" or "P-Prmtrc" menu, open the "Parametric Microphone Equalizer Graph" window on the monitor.

3. Adjust the characteristic of the Parametric Microphone Equalizer using the each arrow switch. You may observe the setting of the characteristic of the Parametric Microphone Equalizer on the monitor.

   Red Curve: Appears the characteristic of the lower range for the parametric microphone equalizer.

   Blue Curve: Appears the characteristic of the middle range for the parametric microphone equalizer.

   Green Curve: Appears the characteristic of the high range for the parametric microphone equalizer.

   Black Curve: Appears the characteristic of the overall range for the parametric microphone equalizer.

4. Click the left mouse button on the [**APPLI**] button on the "Parametric Microphone Equalizer Graph" window to save the new setting and click the left mouse button on the [**EXIT**] button on the "Parametric Microphone Equalizer Graph" window to close the "Parametric Microphone Equalizer Graph" window.

"Parametric Microphone Equalizer Graph" window
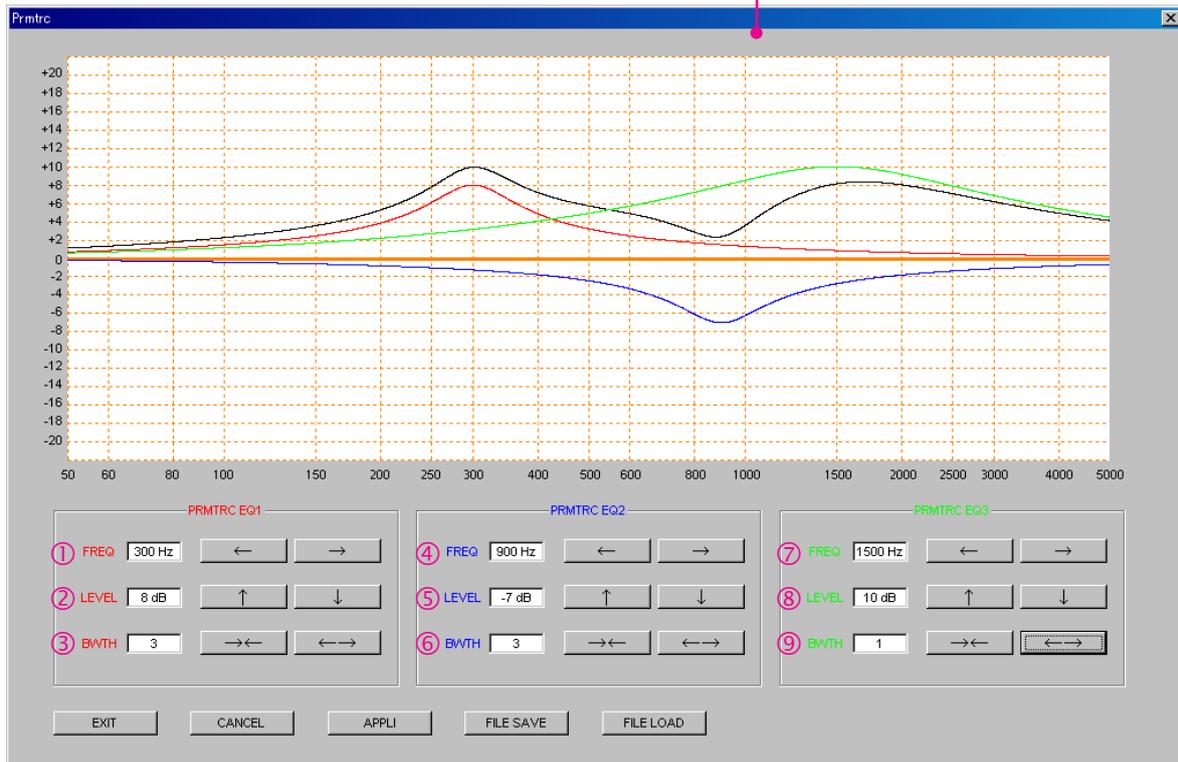
① **PRMTRC EQ1 (P-PRMTRC EQ1) FREQ**
Click the left mouse button on the [←]/[→] button to selects the center frequency of the lower range for the parametric microphone equalizer.
Available selections are 100 ~ 700 Hz (100 Hz/step) or OFF.

② **PRMTRC EQ1 (P-PRMTRC EQ1) LEVEL**
Click the left mouse button on the [↑]/[↓] button to adjusts the equalizer gain of the low range of the parametric microphone equalizer.
Available selections are –20 dB ~ +10 dB.

③ **PRMTRC EQ1 (P-PRMTRC EQ1) BWTH**
Click the left mouse button on the [→←]/[←→] button to adjusts the Q-factor of the low range of the parametric microphone equalizer.
Available selections are 1 ~ 10.

④ **PRMTRC EQ2 (P-PRMTRC EQ2) FREQ**
Click the left mouse button on the [←]/[→] button to selects the center frequency of the middle range for the parametric microphone equalizer.
Available selections are 700 ~ 1500 Hz (100 Hz/ step) or OFF.

- 21 -

PARAMETRIC MICROPHONE EQUALIZER ADJUSTMENT

⑤ **PRMTRC EQ2 (P-PRMTRC EQ2) LEVEL**

Click the left mouse button on the [↑]/[↓] button to adjusts the equalizer gain of the middle range of the parametric microphone equalizer.
Available selections are –20 dB ~ +10 dB.

⑥ **PRMTRC EQ2 (P-PRMTRC EQ2) BWTH**

Click the left mouse button on the [→←]/[←→] button to adjusts the Q-factor of the middle range of the parametric microphone equalizer.
Available selections are 1 ~ 10.

⑦ **PRMTRC EQ3 (P-PRMTRC EQ3) FREQ**

Click the left mouse button on the [←]/[→] button to selects the center frequency of the high range for the parametric microphone equalizer.
Available selections are 1500 ~ 3200 Hz (100 Hz/ step) or OFF.

⑧ **PRMTRC EQ3 (P-PRMTRC EQ3) LEVEL**

Click the left mouse button on the [↑]/[↓] button to adjusts the equalizer gain of the high range of the parametric microphone equalizer.
Available selections are –20 dB ~ +10 dB.

⑨ **PRMTRC EQ3 (P-PRMTRC EQ3) BWTH**

Click the left mouse button on the [→←]/[←→] button to adjusts the Q-factor of the high range of the parametric microphone equalizer.
Available selections are 1 ~ 10.

[**EXIT**] Button

Click the left mouse button on this button to close the "Repeater" pop-up window.

[**CANCEL**] Button

Click the left mouse button on this button to save the new setting.

[**APPLI**] Button

Click the left mouse button on this button to save the new setting.

[**FILE SAVE**] Button

Click the left mouse button on this button to open the "File Save" pop-up window and save the new setting to your computer (pef file).

[**FILE LOAD**] Button

Click the left mouse button this button to open the "File Load" pop-up window and load the previously stored setting.
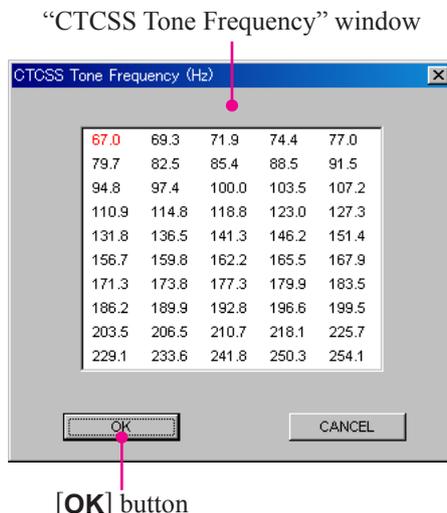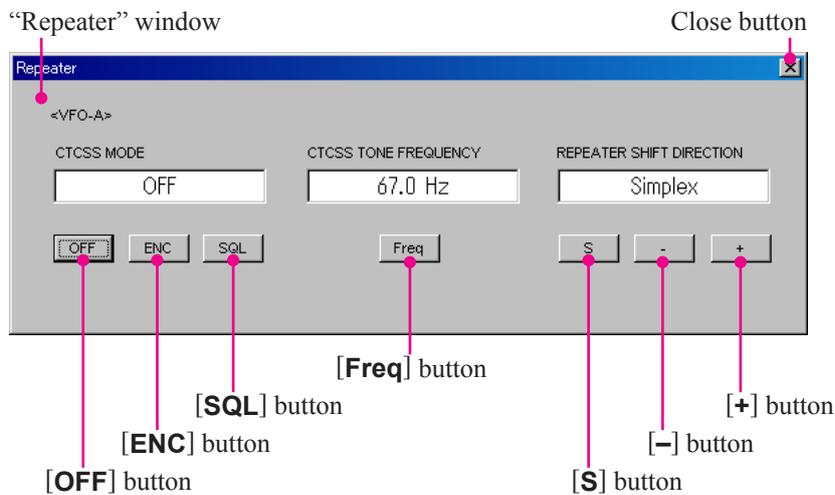
PCC-5000 REFERENCE BOOK

ANTENNA TUNER OPERATION

Click the left mouse button on the [**TUNE**] button to open the "TUNER" pop-up window, then select the configuration you wish to use.

    TUNER OFF: Turns the Automatic Antenna Tuner off.
    TUNER ON: Turns the Automatic Antenna Tuner on.
    TUNING: Turns the Automatic Antenna Tuner on, and begins the automatic tuning process.

[**TUNE**] button

"TUNER" window

REPEATER OPERATION

1. Click the left mouse button on the "Repeater" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "Repeater" pop-up window.
2. Click the left mouse button on the [**ENC**], [**SQL**], or [**OFF**] button to select the desired CTCSS mode.
3. Click the left mouse button on the "Freq" button to open the "CTCSS Tone Frequency" pop-up window, and then select the desired tone frequency.
4. Click the [**OK**] button to close the "CTCSS Tone Frequency" pop-up window.
5. Click the left mouse button on the [**S**], [**−**], or [**+**] button to select the desired Repeater Shift Direction.
6. Click the left mouse button on the Close Button "✖" on the "Repeater" pop-up window to save the new setting and close the "Repeater" pop-up window.

"Repeater" parameter

"Repeater" window   Close button

[**Freq**] button
[**SQL**] button
[**ENC**] button
[**OFF**] button

[**+**] button
[**−**] button
[**S**] button

"CTCSS Tone Frequency" window
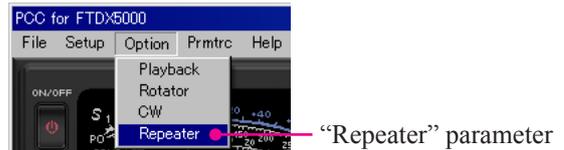
[**OK**] button

PCC-5000 REFERENCE BOOK

KEYER OPERATION

1. Click the left mouse button on the [**KEYER**] button to turn the CW Keyer on and off. When the CW Keyer is set to on, the "KEYER" icon will appear in the display.

2. Click the left mouse button on the [**SPEED**] knob (the indication color of "SPEED" will turn yellow), then turn the mouse scroll or press the left/right buttons to set the desired keying speed.

3. Click the left mouse button on the [**PITCH**] knob (the indication color of "PITCH" will turn yellow), then turn the mouse scroll or press the left/right buttons to set the desired CW tone pitch.

4. Click the left mouse button on the [**BK-IN**] button to turn the CW Break-in circuit on and off. When the CW Break-in circuit is set to on, the "BK-IN" icon will appear in the display.

5. Click the left mouse button on the [**DELAY**] knob (the indication color of "DELAY" will turn yellow), then turn the mouse scroll or press the left/right buttons to adjust the CW delay time.

[**KEYER**] button — [**BK-IN**] button

[**SPEED**] knob — [**PITCH**] knob

[**DELAY**] knob

PCC-5000 REFERENCE BOOK

CONTEST MEMORY KEYER

TEXT MEMORY STORAGE

1. Click the left mouse button on the "CW" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "CW" pop-up window.
2. Click the left mouse button on the desired Text Memory Channel ("Text Ch-1" ~ "Text Ch-5"), then enter the message from the computer's keyboard. Remember to add the "}" character at the end to signify the termination of the message.
3. Click the left mouse button on the [**CH-x WR**] button to save the message.

PLAYBACK

1. Click the left mouse button on the [**MONI**] button to turn "on" the Monitor function. The "**MONI**" icon will appear in the display.
2. Click the left mouse button on the [**BK-IN**] button to turn "off" the Monitor function. The "**BK-IN**" icon will disappear from the display.
3. Click the left mouse button on the "CW" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "CW" pop-up window.
4. Click the left mouse button on the desired Memory Channel button (Message Play [**Ch-1**] ~ Message Play [**Ch-5**] or Text Play [**Ch-1**] ~ Text Play [**Ch-5**]) to begin playback of the saved message.

TRANSMITTING

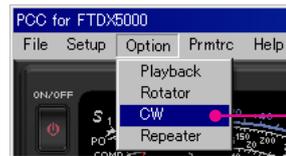1. Click the left mouse button on the [**BK-IN**] button. The "**BK-IN**" icon will appear in the display.
2. Click the left mouse button on the "CW" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "CW" pop-up window.
3. Click the left mouse button on the desired Memory Channel button (Message Play [**Ch-1**] ~ Message Play [**Ch-5**] or Text Play [**Ch-1**] ~ Text Play [**Ch-5**]) to begin transmitting of the saved message.

"CW" parameter

"Message Play" button's   "Text Play" button's
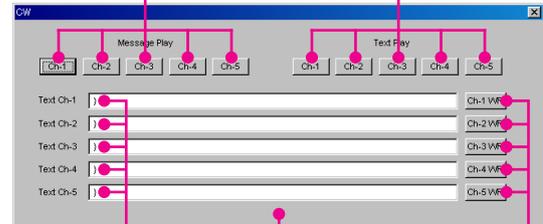
Text Memory Channel   [**CH-x WR**] button

"CW" window

[**MONI**] button

[**BK-IN**] button

PCC-5000 REFERENCE BOOK

ROTATOR CONTROL

1. Click the left mouse button on the "Rotator" parameter in the "Option" menu on the "PCC-5000" Personal Computer Controller to open the "Rotator" pop-up window.
2. Click the left mouse button on the [**CCW**] or [**CW**] button to rotate the antenna.
3. Click the left mouse button on the [**SLOW**] or [**FAST**] button to adjust the rotation speed.

"Rotator" parameter

"Rotator" window
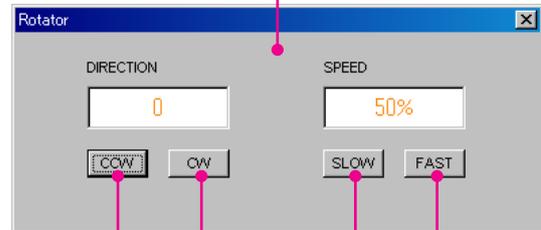
[**CW**] button   [**FAST**] button

[**CCW**] button   [**SLOW**] button

QMB MEMORY

❒ Click the left mouse button on the [**STO**] button to write the current main band (VFO-A) data to the QMB memory.
❒ Click the left mouse button on the [**RCL**] button to recall the QMB memory.

[**STO**] button
[**RCL**] button

PCC-5000 REFERENCE BOOK

OPERATION OF MISCELLANEOUS KNOBS AND BUTTONS

[METER] KNOB

Click the left mouse button on the [**METER**] knob, then turn the mouse scroll or press the left/right buttons to select the function of the meter during transmission.

[**METER**] knob

[MIC] KNOB

Click the left mouse button on the [**MIC**] knob (the indication color of "MIC" will turn yellow), then turn the mouse scroll or press the left/right buttons to select the Microphone gain level.
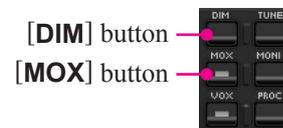
[**MIC**] knob

[RF PWR] KNOB

Click the left mouse button on the [**RF PWR**] knob (the indication color of "RF PWR" will turn yellow), then turn the mouse scroll or press the left/right buttons to set the desired output power.

[**RF PWR**] knob

[DIM] BUTTON

Click the left mouse button on the [**DIM**] button to toggle the illumination level of the Meter/Display between "Hi" and "Low."

[**DIM**] button
[**MOX**] button

[MOX] BUTTON

Click the left mouse button on the [**MOX**] button to engage transmission. When the MOX circuit is set to on, the inside of the button glows red.

[A] BUTTON

When this button glows red, the following buttons are active on the VFO-A.

[**A**] button   [**B**] button

- ❒ [**RX ANT**] Button
- ❒ [**ANT 1-4**] Button
- ❒ [**ATT**] Button
- ❒ [**IPO**] Button
- ❒ [**R.FLT**] button
- ❒ [**AGC**] Button
- ❒ [**MODE**] Button
- ❒ [**BAND**] Button
- ❒ [**NAR**] Button
- ❒ [**NB**] Button
- ❒ [**UP**] Button
- ❒ [**DOWN**] Button

[B] BUTTON

Click the left mouse button on the [**B**] button to turn the button orange for five seconds. When this button glows orange, the following buttons are active on the VFO-B.

- ❒ [**RX ANT**] Button
- ❒ [**ANT 1-4**] Button
- ❒ [**ATT**] Button
- ❒ [**IPO**] Button
- ❒ [**R.FLT**] button
- ❒ [**AGC**] Button
- ❒ [**MODE**] Button
- ❒ [**BAND**] Button
- ❒ [**NAR**] Button
- ❒ [**NB**] Button
- ❒ [**UP**] Button
- ❒ [**DOWN**] Button

PCC-5000 REFERENCE BOOK

OPERATION OF MISCELLANEOUS KNOBS AND BUTTONS

[SPLIT] BUTTON

Click the left mouse button on the [**SPLIT**] button to open the "SPLIT" pop-up window, then select the configuration you wish to use.

SPLIT: Activates the Split Frequency operation. (The VFO-A register will be used for reception while the VFO-B register will be used for transmission).

QUICK SPLIT: Activates the Quick Split feature. (The VFO-B register will automatically be set to a frequency 5 kHz higher than the VFO-A register with same operating mode.)

[**SPLIT**] button
[**TXW**] button
[**CLASS-A**] button

"SPLIT" window
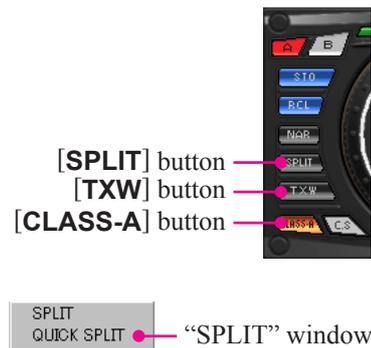
[TXW] BUTTON

Click the left mouse button on the [**TXW**] button to monitor the transmit frequency when split frequency operation is engaged. Release the mouse button to return to normal operation.

[CLASS-A] BUTTON

Click the left mouse button on the [**CLASS-A**] button to engage the Class-A transmit capability. When the Class-A operation is engaged, the "CLASS-A" icon will appears in the display.

VFO-A [RX] BUTTON

Click the left mouse button on the VFO-A [**RX**] button to toggle the VFO-A receiver "on" and "off". When the VFO-A receiver is set to "on", this button glows green.

VFO-A [TX] BUTTON

Click the left mouse button on the VFO-A [**TX**] button to toggle transmitter control between the "VFO-A" and "VFO-B". When the transmitter control is set to "VFO-A", this button glows red.

SUB [RX] BUTTON

Click the left mouse button on the Sub [**RX**] button to toggle the Sub Band (VFO-B) receiver on and off. When the Sub Band (VFO-B) receiver is set to on, this button glows green.

SUB [TX] BUTTON

Click the left mouse button on the Sub [**TX**] button to toggle transmitter control between the "Main Band (VFO-A)" and "Sub Band (VFO-B)." When the transmitter control is set to "Sub Band (VFO-B)," this button glows red.

VFO-A [**RX**] button   VFO-A [**TX**] button

VFO-B [**RX**] button   VFO-B [**TX**] button

OPERATION OF MISCELLANEOUS KNOBS AND BUTTONS

[FAST] BUTTON

Click the left mouse button on the [**FAST**] button to toggle the tuning rate of the Main Tuning Dial knob between "Fast" and "Slow". When the tuning rate is set to "Fast", the "FAST" icon will appear in the display.

[A►B] BUTTON

Click the left mouse button on the [**A►B**] button to transfer data from the VFO-A frequency (or a recalled memory channel) to the VFO-B.

[A⭰B] BUTTON

Click the left mouse button on the [**A⭰B**] button to exchange the contents of the VFO-A (or a recalled memory channel) and the VFO-B.

[V/M] BUTTON

Click the left mouse button on the [**V/M**] button to toggle the VFO-A receiver operation between the memory system and the VFO.

[M►A] BUTTON

Click the left mouse button on the [**M►A**] button to copy the data from the currently-selected memory to the VFO-A.

[A►M] BUTTON

Click the left mouse button on the [**A►M**] button to copy the current operating data from the VFO-A into the currently selected memory channel, overwriting any previous data stored there.
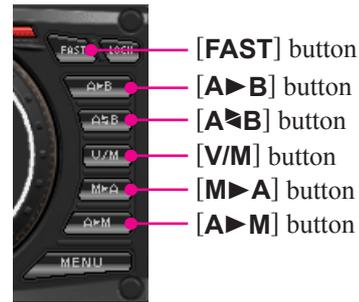
[RX CLAR/FAST] BUTTON

The function of this button is changed by the setting of the [**A/B**] button (described later).

❒ *When the* [**A/B**] *button is turned "off"*, click the left mouse button on the [**RX CLAR/FAST**] button to turn the RX Clarifier on and off, described previously.

❒ *When the* [**A/B**] *button glows Orange*, clicking the left mouse button on the [**RX CLAR/FAST**] button increases the tuning rate of the VFO-B ([**SUB VFO-B**] knob) by a factor of 10.

[TX CLAR/LOCK] BUTTON

The function of this button is changed by the setting of the [**A/B**] button (described later).

❒ *When the* [**A/B**] *button is turned "off"*, click the left mouse button on the [**TX CLAR/LOCK**] button to turn the TX Clarifier "on" and "off", described previously.

❒ *When the* [**A/B**] *button glows Orange*, clicking the left mouse button on the [**RX CLAR/FAST**] button toggles locking of the [**SUB VFO-B**] knob, to prevent accidental frequency change.

[**FAST**] button
[**A►B**] button
[**A⭰B**] button
[**V/M**] button
[**M►A**] button
[**A►M**] button

[**RX CLAR/FAST**] button
[**TX CLAR/LOCK**] button

PCC-5000 Reference Book

Operation of Miscellaneous Knobs and Buttons

[CLAR/GRP] Button

❒ *Click* the left mouse button on the [**CLAR/GRP**] button *briefly* (the inside of the button will glow Red), the Clarifier operation will be enabled, described previously.

❒ *Press and hold* the left mouse button on the [**CLAR/GRP**] button *for two seconds* (the inside of the button will glow Orange) allows you to select the memory group using the [**CLAR**(**VFO-B**)] knob.

[BAND/MCH] Button

❒ *Click* the left mouse button on the [**BAND/MCH**] button *briefly* (the inside of the button will glow Red) allows you to select the VFO-A operating band (Amateur bands) using the [**CLAR**(**VFO-B**)] knob.

❒ *Press and hold* the left mouse button on the [**BAND/MCH**] button *for two seconds* (the inside of the button will glow Orange) allows you to select the memory channel using the [**CLAR**(**VFO-B**)] knob.

[A/B] Button

Click the left mouse button on the [**A/B**] button to toggle the actions of the [**CLAR**(**VFO-B**)] button between the VFO-A and VFO-B.

[**CLAR/GRP**] button
　[**BAND/MCH**] button
　　[**A/B**] button
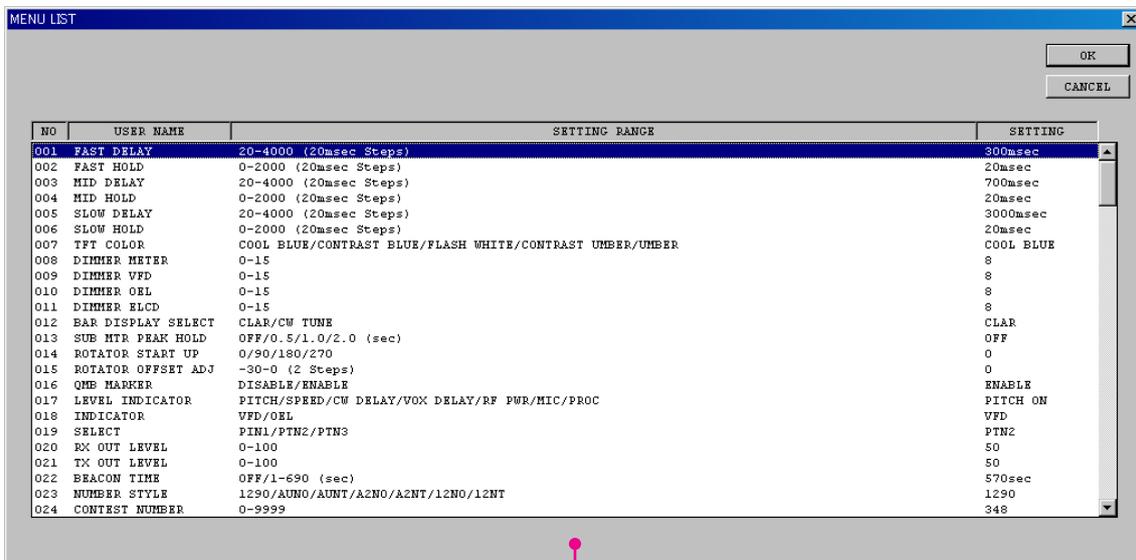
MENU OPERATION

1. Click the left mouse button on the [**MENU**] button to open the "MENU" window.
2. Turn the mouse scroll to select the Menu item you wish to work on, then double click the left mouse button on the Menu item to open the pop-up window.
3. Change the current setting of the selected Menu item, then click the [**OK**] button to close the pop-up window.
   Click the [**CANCEL**] button to close the pop-up window without changing the setting.
4. Click the [**OK**] button to save the new setting and close the "MENU" window.
   Click the [**CANCEL**] button to close the "MENU" window without saving the setting.
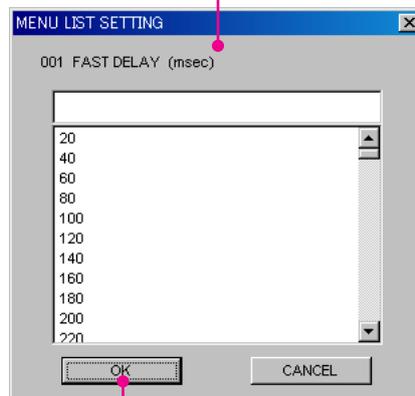
[**MENU**] button

NO	USER NAME	SETTING RANGE	SETTING
001	FAST DELAY	20-4000 (20msec Steps)	300msec
002	FAST HOLD	0-2000 (20msec Steps)	20msec
003	MID DELAY	20-4000 (20msec Steps)	700msec
004	MID HOLD	0-2000 (20msec Steps)	20msec
005	SLOW DELAY	20-4000 (20msec Steps)	3000msec
006	SLOW HOLD	0-2000 (20msec Steps)	20msec
007	TFT COLOR	COOL BLUE/CONTRAST BLUE/FLASH WHITE/CONTRAST UMBER/UMBER	COOL BLUE
008	DIMMER METER	0-15	8
009	DIMMER VFD	0-15	8
010	DIMMER OEL	0-15	8
011	DIMMER ELCD	0-15	8
012	BAR DISPLAY SELECT	CLAR/CW TUNE	CLAR
013	SUB MTR PEAK HOLD	OFF/0.5/1.0/2.0 (sec)	OFF
014	ROTATOR START UP	0/90/180/270	0
015	ROTATOR OFFSET ADJ	-30-0 (2 Steps)	0
016	QMB MARKER	DISABLE/ENABLE	ENABLE
017	LEVEL INDICATOR	PITCH/SPEED/CW DELAY/VOX DELAY/RF PWR/MIC/PROC	PITCH ON
018	INDICATOR	VFD/OEL	VFD
019	SELECT	PTN1/PTN2/PTN3	PTN2
020	RX OUT LEVEL	0-100	50
021	TX OUT LEVEL	0-100	50
022	BEACON TIME	OFF/1-690 (sec)	570sec
023	NUMBER STYLE	1290/AUN0/AUNT/A2N0/A2NT/12N0/12NT	1290
024	CONTEST NUMBER	0-9999	348

"MENU LIST" window

"MENU LIST SETTING" window

MENU LIST SETTING
001 FAST DELAY (msec)

20
40
60
80
100
120
140
160
180
200
220

[**OK**] button

PCC-5000 REFERENCE BOOK

COMMAND SEND

1. Click the left mouse button on the "Command Send" parameter in the "File" menu on the "PCC-5000" Personal Computer Controller to open the "Command Send" pop-up window.

2. Enter the CAT command you wish send to the FTDX5000 with the PC keyboard.
   For example: Set the VFO-A frequency to 14.250000 MHz.
   FA14250000;
   Refer to a "FTDX5000 CAT Operation Reference Book" for the CAT command. You may download the "FTDX5000 CAT Operation Reference Book" from the YAESU Web site.

3. Click the [**OK**] button to send the CAT command to the transceiver and close the pop-up window.

"Command Send" parameter

"Command Send" window
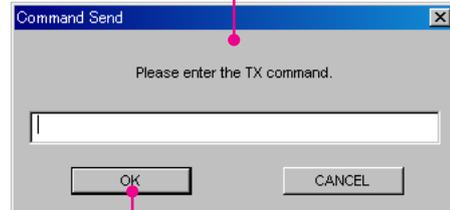
[**OK**] button

PCC-5000 REFERENCE BOOK

FUNCTION KEY OPERATION

You can program and assign the CAT commands into your computer's Function keys using the YAESU MUSEN KSE4PCC Keyboard Shortcut Editor, then you may control the transceiver by pressing your computer's Function keys while activating the "PCC-5000" Personal Computer Controller.

Each of the following 46 Function keys may be programmed with a CAT command sequence. There are a total of 52 commands to chose from:
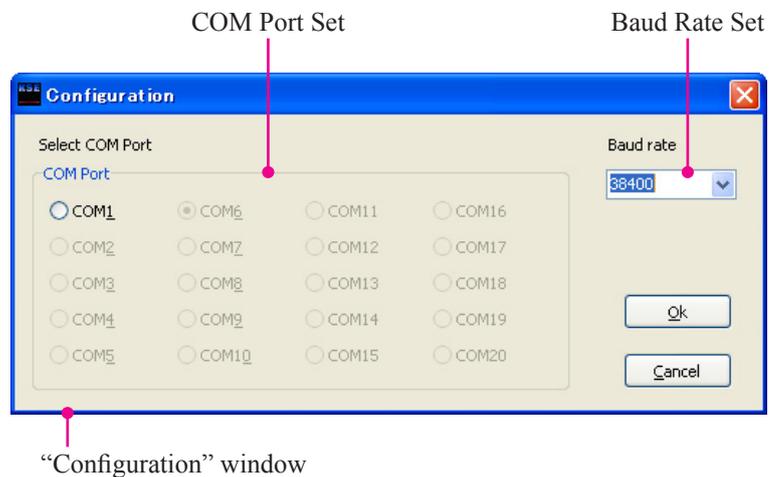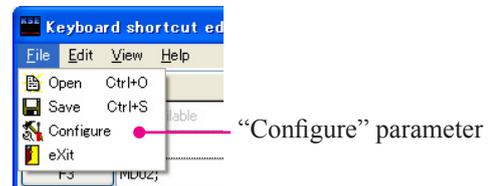
[**F2**] key ~ [**F9**] key, [**F11**] key, [**F12**] key,
[**Shift**] + [**F1**] key ~ [**Shift**] + [**F9**] key, [**Shift**] + [**F11**] key, [**Shift**] + [**F12**] key,
[**Cntl**] + [**F1**] key ~ [**Cntl**] + [**F9**] key, [**Cntl**] + [**F11**] key, [**Cntl**] + [**F12**] key,
[**Alt**] + [**F1**] key ~ [**Alt**] + [**F3**] key, [**Alt**] + [**F5**] key, [**Alt**] + [**F7**] key, [**Alt**] + [**F12**] key,
[**Page Up**] key, [**Page Down**] key, [**Home**] key, and [**End**] key

INSTALLATION
1. Copy the "KSE4PCC.exe" file into the folder where you installed the "PCC-5000.exe" file.
2. Double click the left mouse button on "KSE4PCC.exe" to open the "Keyboard Shortcut Editor" window.

CONFIGULATION SETTING
1. Click the left mouse button on the "Configure" parameter in the "File" on the "Keyboard Shortcut Editor", then click the left mouse button on the "Configure" parameter to open the "Configulation" pop-up window.
2. Click the left mouse button on the communication port which is connected to the RS-232C cable which is connected to the FTDX5000, then selects the transceiver's computer-interface circuitry for the Baud Rate to be used. We recommend "4800 bps".
3. Click the left mouse button on the [**OK**] button to save new setting and close the "Configulation" window.
4. Re-boot the "Keyboard Shortcut Editor".

"Configure" parameter

COM Port Set   Baud Rate Set

"Configuration" window

FUNCTION KEY OPERATION

PROGRAMMING

Following is an example of programming a CAT command shortcut into one of the Function keys:

1. Enter the CAT command you wish to assin to a specific Function key.

   Example 1: Set the VFO-A frequency to 14.250000 MHz.
   FA14250000;

   Example 2: Set the VFO-A Operating Mode to "USB"
   MD02;

   Example 3: Set the VFO-A frequecy to 14.250000 MHz, USB mode.
   FA14250000; MD02;

   (Notice in Example 3 that you may assign more than one CAT command to a single function key. Simply add a semi-colon after each command, and end the command line with a semi-colon).

   Refer to the "FTDX5000 CAT Operation Reference Book" for the CAT command.

   Note: You can not enter CAT commands into the following function keys.

   [**F1**] key, [**F10**] key, [**Shift**] + [**F10**] key,

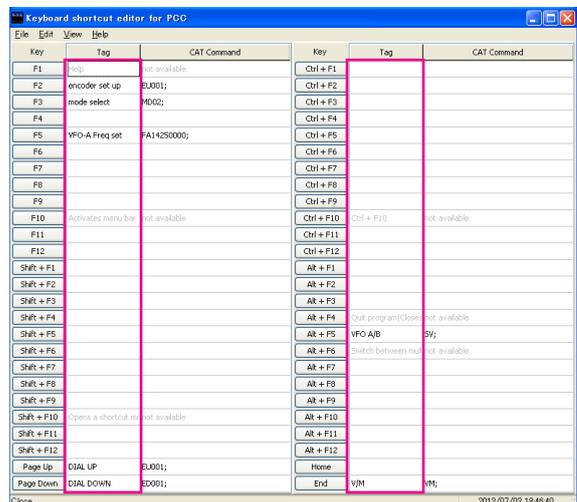   [**Cntl**] + [**F10**] key, [**Alt**] + [**F4**] key, and [**Alt**] + [**F6**] key

2. You may append an Alpha-numeric "Tag" to a CAT Command for your reference (This is for reference only. The Alpha-numeric "Tag" is not displayed on the "PCC-5000" Personal Computer Controller).

   To append a "Tag" to your CAT shortcut key, click the left mouse button on the "Tag" or the "Both" parameter in the "View" menu on the "Keyboard Shortcut Editor". Your new reference "Tag" appears in the "Tag" column on the "Keyboard Shortcut Editor".

5. To close the "Keyboard Shortcut Editor" and save the CAT commands, click "File" in the menu bar, and then click "Save" parameter in the drop-down list. In the Confirmation pop-up window, click the [**Yes**] button to save the new setting.
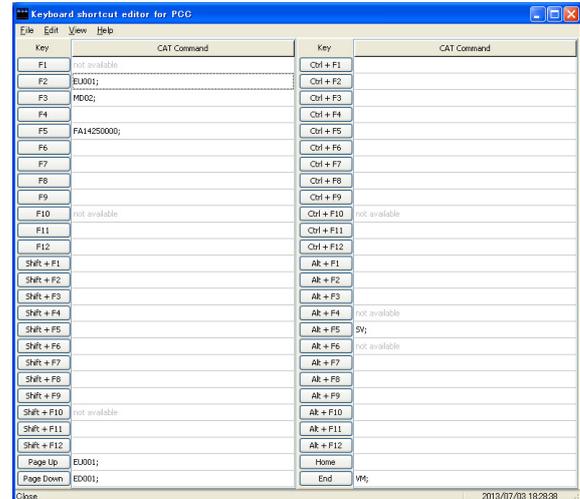
"View" menu

"Save" parameter

NOTE

YAESU
The radio