VULCAN™ II TKL

QUICK START GUIDE

IMPORTANT
READ BEFORE USING

CERTIFICATION MODEL:
KAAB0025

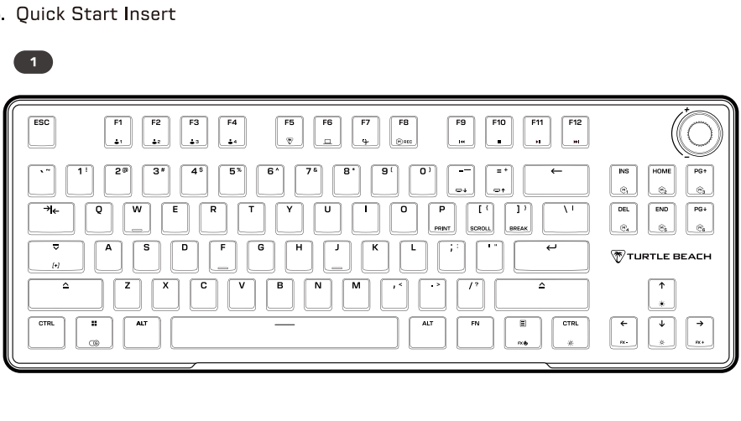
CONTENTS

-Package Contents
-Setup
-Additional FN-Layer Functionality
-Switch & Keycap Replacement
-On-Board Macro Recording Instructions
-Tech Specs

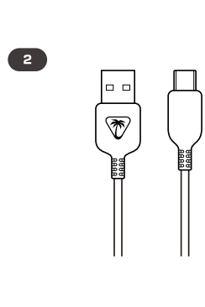
PACKAGE CONTENTS

1. Vulcan™ II TKL Mechanical Gaming Keyboard
2. USB-C to USB-A Cable
3. Keycap & Switch Puller
4. 3 Extra TITAN HS Linear Switches
5. Quick Start Insert

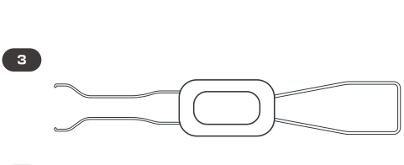
1



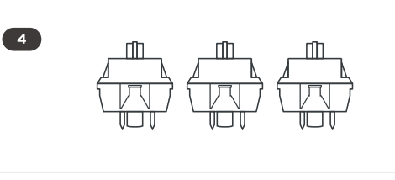
2



3

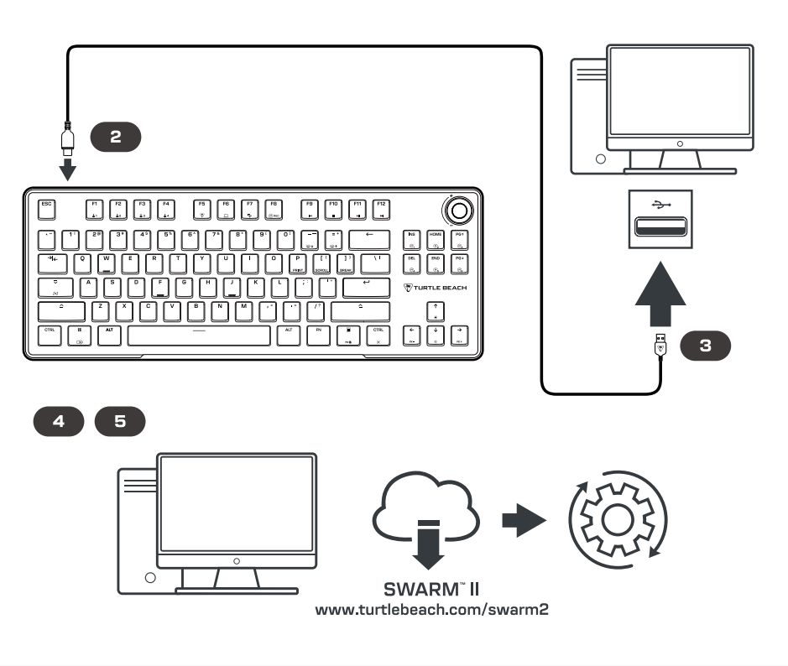


4



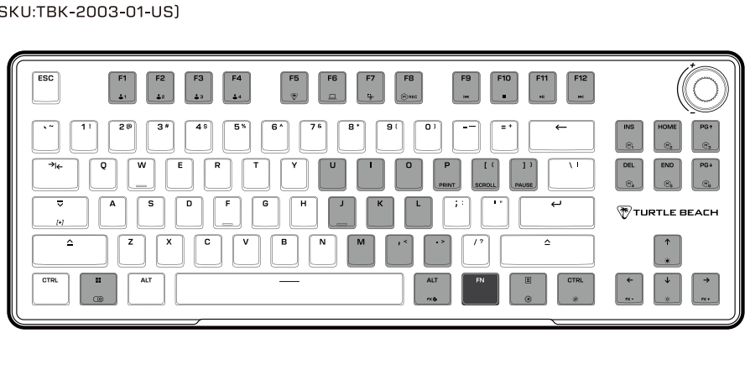
SETUP

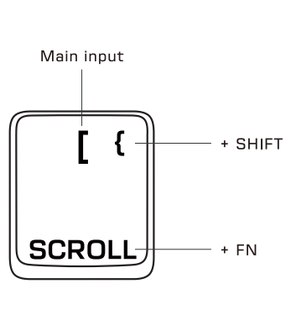
1. **For a more ergonomic position, fold out the stands on the base of the keyboard.**
2. **Plug USB Type-C connector to the Keyboard.**
3. **Plug USB type-A connector into any free USB port.**
4. **Navigate to www.turtlebeach.com/swarm2 and download the latest driver software.**
5. **Complete the installation to get access to all software features and setup.**



ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

US LAYOUT
(SKU:TBK-2003-01-US)





US LAYOUT
(SKU:TBK-2003-01-US)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + [	Scroll
FN +]	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INS	Macro 1
FN + HOME	Macro 2
FN + PG up	Macro 3
FN + DEL	Macro 4
FN + END	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

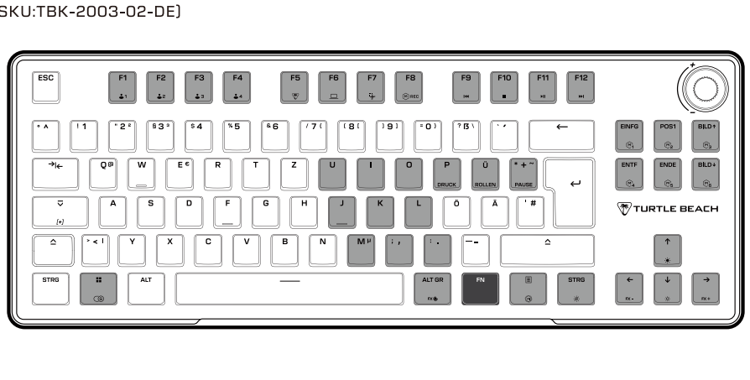
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

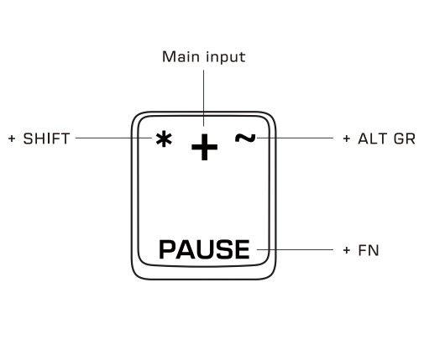
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT R	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

DE LAYOUT
(SKU:TBK-2003-02-DE)





DE LAYOUT
(SKU:TBK-2003-02-DE)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + Ü	Scroll
FN + +	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + EINFG	Macro 1
FN + POS 1	Macro 2
FN + BILD ↑	Macro 3
FN + ENTF	Macro 4
FN + ENDE	Macro 5
FN + BILD ↓	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

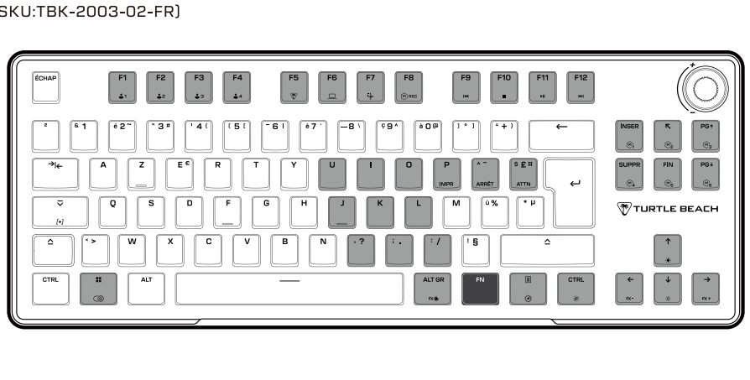
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

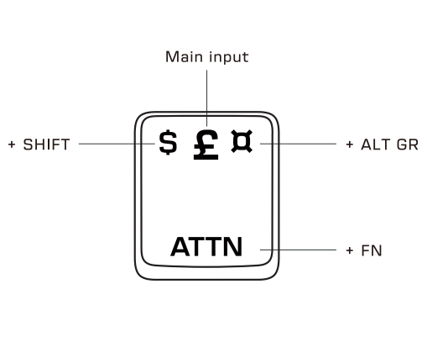
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT GR	RGB cycle preset colors
FN + STRG	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

FR LAYOUT
(SKU:TBK-2003-02-FR)





FR LAYOUT
(SKU:TBK-2003-02-FR)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + ˆ	Scroll
FN + £	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INSER	Macro 1
FN + ↖	Macro 2
FN + PG up	Macro 3
FN + SUPPR	Macro 4
FN + FIN	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

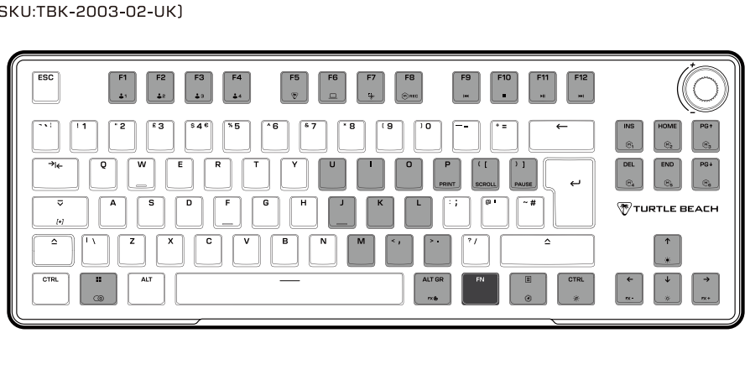
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + ?	1 (num pad)
FN + .	2 (num pad)
FN + /	3 (num pad)

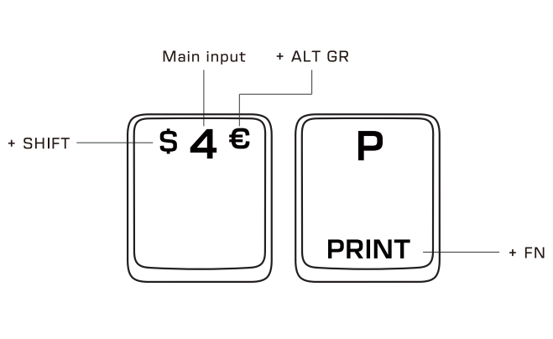
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT GR	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

UK LAYOUT
(SKU:TBK-2003-02-UK)





UK LAYOUT
(SKU:TBK-2003-02-UK)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + [	Scroll
FN +]	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INS	Macro 1
FN + HOME	Macro 2
FN + PG up	Macro 3
FN + DEL	Macro 4
FN + END	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

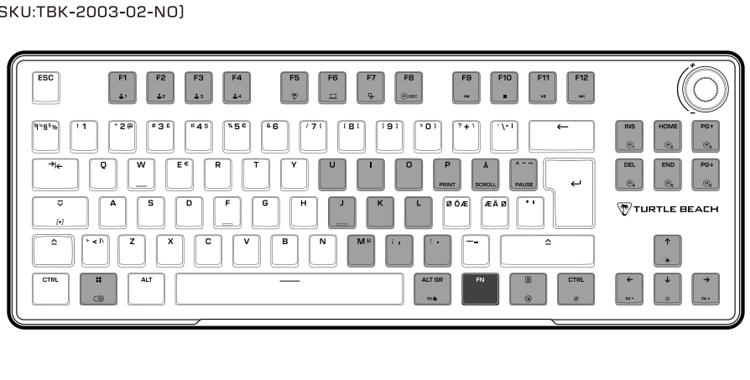
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

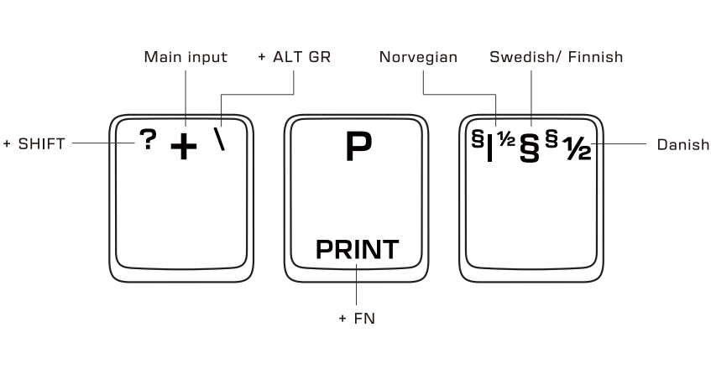
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT GR	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

NO LAYOUT
(SKU:TBK-2003-02-NO)





NO LAYOUT
(SKU:TBK-2003-02-NO)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + å	Scroll
FN + ¨ or ^ or ~	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INS	Macro 1
FN + HOME	Macro 2
FN + PG up	Macro 3
FN + DEL	Macro 4
FN + END	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

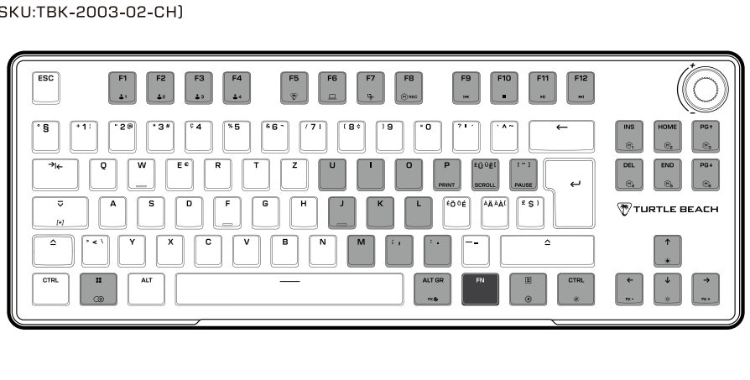
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

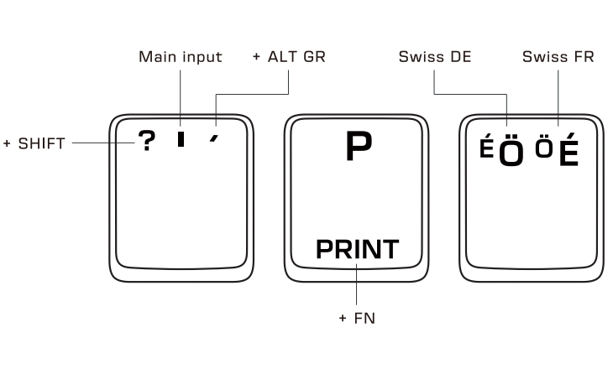
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT GR	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

CH LAYOUT
(SKU:TBK-2003-02-CH)





CH LAYOUT
(SKU:TBK-2003-02-CH)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + ü or è	Scroll
FN + ¨	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INS	Macro 1
FN + HOME	Macro 2
FN + PG up	Macro 3
FN + DEL	Macro 4
FN + END	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

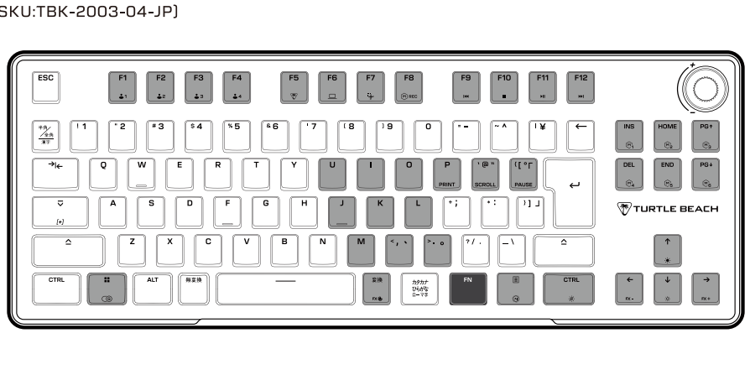
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

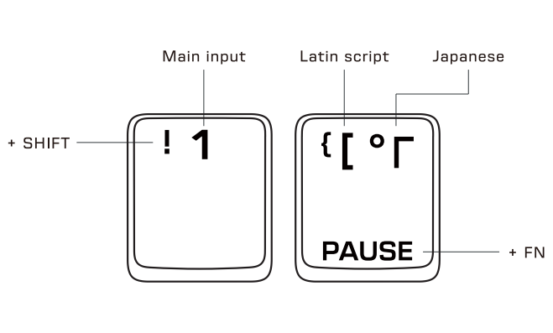
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT GR	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

JP LAYOUT
(SKU:TBK-2003-04-JP)





JP LAYOUT
(SKU:TBK-2003-04-JP)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + @	Scroll
FN + [	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INS	Macro 1
FN + HOME	Macro 2
FN + PG up	Macro 3
FN + DEL	Macro 4
FN + END	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

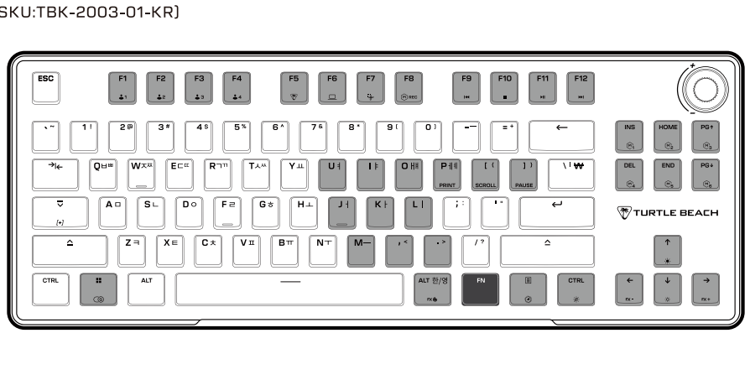
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

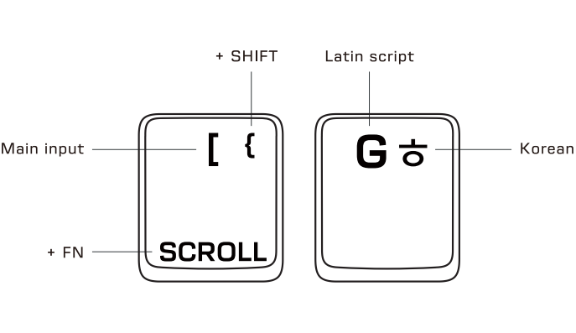
LED CONTROL KEYS

FUNCTION	ACTION
FN + 変換	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

KR LAYOUT
(SKU:TBK-2003-01-KR)





KR LAYOUT
(SKU:TBK-2003-01-KR)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + [	Scroll
FN +]	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INS	Macro 1
FN + HOME	Macro 2
FN + PG up	Macro 3
FN + DEL	Macro 4
FN + END	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

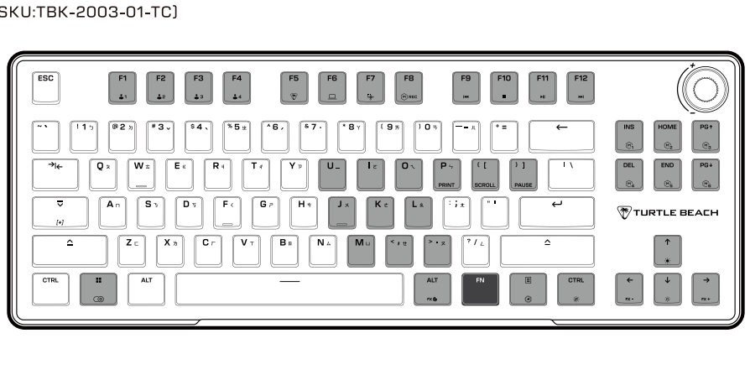
FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

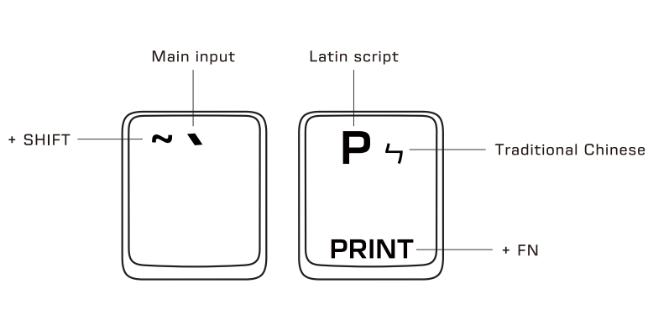
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT R	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

ADDITIONAL FN-LAYER FUNCTIONALITY
(no driver installed)

TC LAYOUT
(SKU:TBK-2003-01-TC)





TC LAYOUT
(SKU:TBK-2003-01-TC)

STANDARD

FUNCTION	ACTION
FN + F1	Switch to Profile 1
FN + F2	Switch to Profile 2
FN + F3	Switch to Profile 3
FN + F4	Switch to Profile 4
FN + F5	Open Swarm II
FN + F6	Open my PC
FN + F7	Snapshot
FN + p	Print
FN + [	Scroll
FN +]	Pause

MEDIA KEYS

FUNCTION	ACTION
FN + F9	Skip to backward track
FN + F10	Stop
FN + F11	Track Play/Pause
FN + F12	Skip to forward track

AI

FUNCTION	ACTION
FN + MENU	AI launch • COPILOT

VOLUME KNOB

FUNCTION	ACTION
Clockwise rotation	Volume up
Counterclockwise rotation	Volume down
Press	Audio Mute

MACRO KEYS

FUNCTION	ACTION
FN + F8	Record Macro
FN + INS	Macro 1
FN + HOME	Macro 2
FN + PG up	Macro 3
FN + DEL	Macro 4
FN + END	Macro 5
FN + PG down	Macro 6

GAME MODE

FUNCTION	ACTION
FN + Win	Toggle Game Mode
Caps Lock	Toggle Easy-Shift[+]™

NUM PAD

FUNCTION	ACTION
FN + U	7 (num pad)
FN + I	8 (num pad)
FN + O	9 (num pad)
FN + J	4 (num pad)
FN + K	5 (num pad)
FN + L	6 (num pad)
FN + M	1 (num pad)
FN + ,	2 (num pad)
FN + .	3 (num pad)

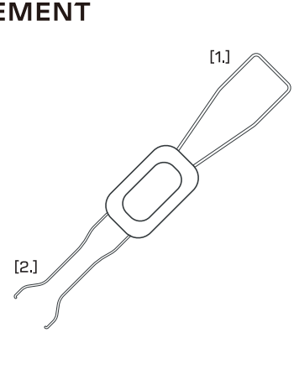
LED CONTROL KEYS

FUNCTION	ACTION
FN + ALT R	RGB cycle preset colors
FN + CTRL R	LED On/Off
FN + Right	RGB FX next
FN + Left	RGB FX previous
FN + Up	Brightness up
FN + Down	Brightness down

SWITCH AND KEYCAP REPLACEMENT

Tools Needed

- Keycap puller [1.]
- Switch puller [2.]
- (Optional) Small containers for organizing keycaps and switches



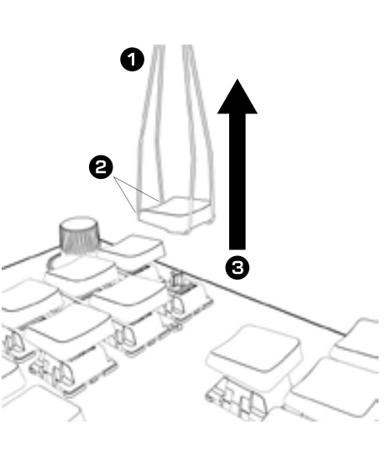
SUGGESTION: If replacing all switches, remove all keycaps first to save time and avoid switching tools repeatedly. Before reinstalling all keycaps, test first that all switches are working correctly.

Unplug the Keyboard

ATTENTION: Before replacing keycap or switches unplug the keyboard from any power source.

Removing the Keycap

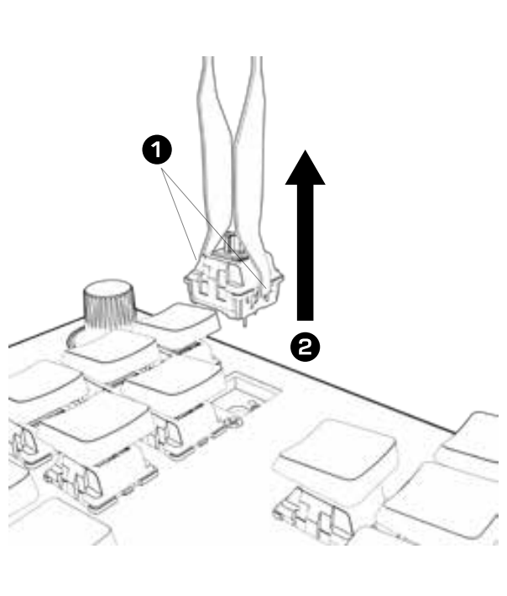
1. Take your keycap puller from the keycap remover side.
2. Place both metal wire under the keycap. For longer keys, grip from the shorter sides. **BE CAREFUL:** not to scratch nearby keys.
3. Pull straight up slowly. **DO NOT:** twist or pull at an angle to avoid damaging the switch or keycap.



SUGGESTION: Set the keycap aside in an organized manner, it will help with reassembly later.

Removing the Switch

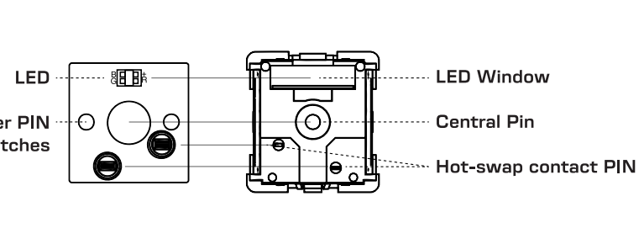
1. Place the switch puller on both top and bottom of the switch, fitting into the small side grooves. Squeeze gently.
2. And pull the switch upward.
   NOTE: If it feels stuck, DON'T force it, work it out gently.
   SUGGESTION: Place your switches in a closed container/sealed bag better with a desiccant bag to avoid copper part oxidation and humidity.



Installing the New Switch

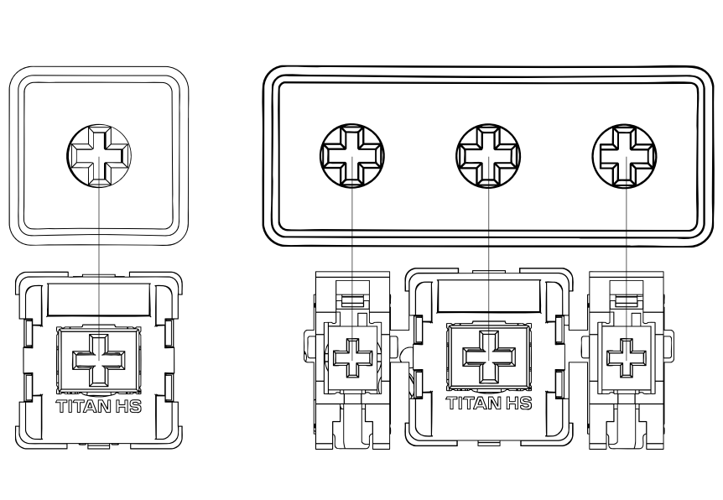
- Vulcan II TKL is compatible with both 3pin and 5pin mechanical switches.
- Check the pins on the new switch and align them with the holes in the socket.
- Make sure pins are straight and properly aligned.
WARNING: do not touch the metal pins to avoid risk of piercing and oxidation.
- Press the switch gently into the socket.

If it doesn't go in easily, STOP and realign.
WARNING: Forcing it may bend the pins.
NOTE: If you experience no input, remove again the switch to check if pins bent. It is advised to replace bent pin switches with a new one.



Installing the Keycap

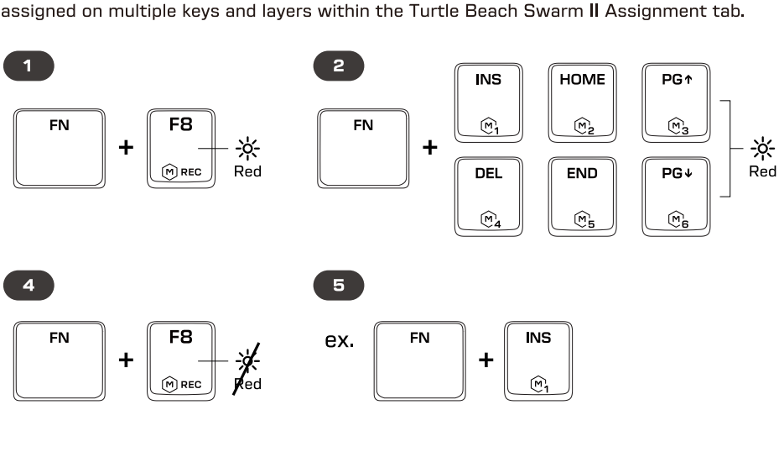
- Align the keycap's ✚ shaped slot with the switch stem ✚.
- Ensure proper alignment to avoid cracking the stem. For larger key, make sure to align properly to both switch stem and stabilizers.
- Press down gently until the keycap is secure.



ON-BOARD MACRO RECORDING INSTRUCTIONS

1. **Start Recording.** Press FN + F8 to start Macro recording, the LED light will turn red, indicating that Macro recording mode is active.
2. **Select the Macro key.** While holding FN, press one of the Macro keys (Macro 1 to 6 M1 ~ M6).
   Both F8 and the selected Macro key will blink red, indicating that Macro recording is in progress.
3. **Record Keystrokes.** Now enter the sequence of keystrokes you want to assign to the Macro.
4. **End Recording.** Press FN + F8 again to stop the Macro recording. The LED light on F8 and the Macro key will return to the current illumination effect.
5. **Use the Macro.** To activate the Macro, press FN + the assigned Macro key.

For more advanced Macro features please install Turtle Beach Swarm II to use the dedicated Macro Manager to create, edit and customize Macros; Macros can be assigned on multiple keys and layers within the Turtle Beach Swarm II Assignment tab.



TECHNICAL SPECIFICATIONS

- Connectivity: USB-A Wired
- Cable: 1.8m / 5.9ft USB-C to USB-A
- Lighting: RGB Per-Key Illumination
- Switches: TITAN HS Mechanical
- Switch Lifecycle: 50M Keystrokes
- Processor: 32-bit ARM Cortex M3
- Polling Rate: 1,000Hz
- Adjustable Height: Double Height Kickstand
- Keyboard Rollover: Full Keys, Anti-Ghosting
- On-Board Memory: Yes, 5 profiles on-board
- Software: Swarm™ II

SYSTEM REQUIREMENTS

- Windows® 10 and above (software support)
- USB 2.0 or higher
- Internet connection (for driver software)

TURTLE BEACH™

Any questions?
www.turtlebeach.com/support

Please register your product to receive important updates.
www.turtlebeach.com/productregistration

For warranty, visit:
www.turtlebeach.com/warranty