MAD CATZ

**CUSTOMIZABLE ERGONOMIC
GAME CONTROLLER**

C.A.T. 17

Quick Start Guide

CUSTOMIZABLE ERGONOMIC
GAME CONTROLLER

C.A.T. 17

1. Power On/Off

1.1 Power on: when the controller is turned off, press HOME to wake up the controller and enter the reconnection mode.

1.2 Reconnect to the device:

① When the controller is turned off, press HOME to wake up the controller.

② When the controller is on, toggle the platform switch to reconnect to the last connected device.

1.3 Power off: press and hold HOME for 5 seconds

2. Battery Indication

2.1 Press and hold HOME for 3 seconds. When the controller is turned on for pairing, the indicator light will display the battery level for 1 second, and then the controller will start pairing (the indicator lights will rapidly flash in an array).

2.2 Battery Level Indication:

When the indicator LED1 is on, the battery level is below 30%.

When the indicators LED1+LED2 are on, the battery level is between 30% and 50%.

When the indicators LED1+LED2+LED3 are on, the battery level is between 50% and 80%.

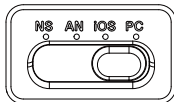When the indicators LED1+LED2+LED3+LED4 are on, the battery level is above 80%.

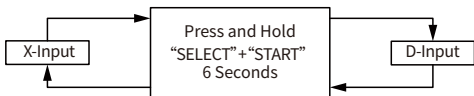| Voltage	Percentage of Electricity	Lighting Display
3.3-3.5	0-30	LED1
3.5-3.7	30-50	LED1+LED2
3.7-4.0	50-80	LED1+LED2+LED3
4.0-4.2	80-100	LED1+LED2+LED3+LED4
Press and hold HOME for 3 seconds. When the controller is turned on for pairing, the indicator light will display the battery level for 1 second, and then the controller will start pairing (the indicator lights will rapidly flash in an array).		

3. PC Platform

3.1 Wired connection

Toggle to PC Platform

① Connect the controller to the PC with a USB-A to USB-C data cable.

② The PC will prompt that a new hardware device has been found and the installation is complete. The indicators LED1+LED4 will flash slowly. When the controller is connected successfully, it will vibrate once.

③ The default connection between the controller and PC is X-Input mode, and the controller is connected as Controller

④ When the controller is in X-Input mode, press and hold SELECT+START for 6 seconds to switch to D-Input mode.

⑤ The indicators LED2+LED3 will flash slowly. When the switch is completed, the handle will vibrate once.
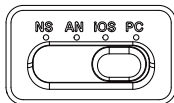
⑥ The controller is now connected as Gamepad

```
              ┌──────────→┌─────────────────┐
┌─────────┐   │           │  Press and Hold  │          ┌─────────┐
│ X-Input │───┘           │ "SELECT"+"START" │──────────│ D-Input │
└─────────┘←──────────────│    6 Seconds     │          └─────────┘
                          └─────────────────┘←──────────────
```

Toggle to PC Platform

⑦ When the controller is turned off, connect the controller to PC with a USB-A to USB-C data cable.

⑧ When the connection is successful, the indicator LED1 will flash slowly and the controller will vibrate once.

⑨ The controller is now connected as Pro Controller.

3.2 Bluetooth connection

Toggle to PC platform

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┌─────────────────────┐
│  NS  AN  IOS  PC     │
│   ○   ○   ○  ⬤       │
└─────────────────────┘
```
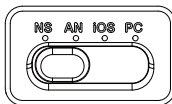
① When the controller is turned off, press and hold HOME for 3 seconds to start pairing (the indicator lights will rapidly flash in an array).

② Open PC Settings -> Bluetooth and other devices -> Add device -> Bluetooth, and start searching

③ Find "Pro Controller" and click to pair

④ When connected, the indicator LED1 will stay on while the controller will vibrate once
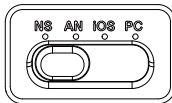
4. Switch Platform

4.1 Wired connection

Toggle to NS platform

① From the Switch HOME menu, select: System Settings -> Controller and Sensor -> Set Pro Controller Wired Communication to On

② When the controller is turned off, connect the controller to the Switch dock with a USB-A to USB-C data cable, or connect the controller to the TYPE-C port on the Switch console with an OTG converter and a USB-A to USB-C data cable.

③ When connected successfully, the indicator LED (1~4) flashes (it stays on when the controller is fully charged).
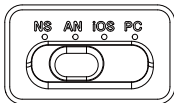
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4.2 Bluetooth connection

Toggle to NS platform

① Select "Controller" on the HOME menu -> select "Change Grip/Order"

② When the controller is turned off, press and hold HOME for 3 seconds and the controller will start pairing (the indicator lights will rapidly flash in an array).

③ When connected, the indicator LED (1~4) will stay on.

4.3 Wake up Switch

① When the controller is in BT connection mode and the Switch console is in the sleep mode, press HOME on the controller to reconnect and wake up the Switch console.

② If the controller fails to wake up the Switch console, you should manually wake up the console.
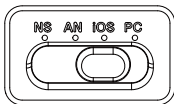
5. Android Platform

Toggle to AN platform

① When the controller is turned off, press and hold HOME for 3 seconds and the controller will start pairing (the indicators LED2+LED3 will flash rapidly).

② On the Android device, go to: Settings -> Bluetooth, and start searching.

③ Find "Game Pad" and click to pair

④ When connected successfully, the indicators LED2+LED3 will stay on while the controller will vibrate once

⑤ If the BT pairing is unsuccessful, the controller will automatically turn off after 2 minutes and 30 seconds.
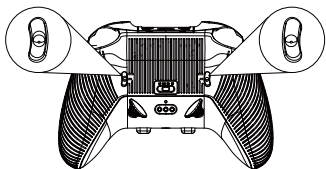
6. iOS Platform

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Toggle to iOS platform

① When the controller is turned off, press and hold HOME for 3 seconds and the controller will start pairing (the indicators LED1+LED4 will flash rapidly).

② Open the iOS device and select: Settings -> Bluetooth, and start searching.

③ Find "Xbox Wireless Controller" and click Pair to connect.

④ When connected successfully, the indicators LED1+LED4 will stay on while the controller vibrates once.

⑤ If the BT pairing connection is unsuccessful, the controller will automatically turn off after 2 minutes and 30 seconds.
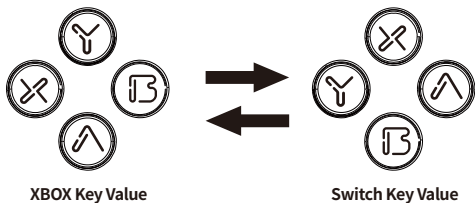
7. Trigger Travel Adjustment

The distance of the left and right triggers can be adjusted separately

① Max distance is about 8mm.

② Mid distance is about 3-4mm.

③ Min distance is about 0.7mm (with mechanical switch sound).
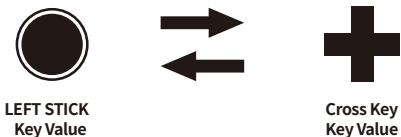
8. ABXY Button Alternation

Press and hold B+SELECT+START to swap the function of A, B, X and Y according to the arrangements of XBOX and Switch controllers. When the swap is in effect, the controller will vibrate once.

XBOX Key Value   **Switch Key Value**

9. Change of the Cross Key and LEFT STICK Key Value

When the power is on, press and hold L3+SELECT+START for 1 second, the D-PAD and the LEFT STICK functions will be swapped. When the swap is in effect, the controller will vibrate once (the swap will return to the default setting once the power is turned off).

LEFT STICK Key Value   **Cross Key Key Value**

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10. Lighting Effect Settings

10.1 Lighting mode

SELECT+D-PAD UP/DOWN to adjust the lighting effect: from "Fantasy" (default) to "Constant On" and "Breathing".

10.2 Adjustment in "Constant On" and "Breathing" modes

① SELECT+D-PAD LEFT: adjust the light color in the sequential order.

② SELECT+D-PAD RIGHT: adjust the light color in the reverse order.

Sequential order: red → orange → yellow → green → cyan → blue → purple.

10.3 Brightness adjustment

① SELECT+LEFT STICK UP: brighten the light.

② SELECT+LEFT STICK DOWN: dim the light.

There are 5 levels of brightness: 0% (off) -> 25% -> 50% -> 75% (default) -> 100%.

10.4 Joystick light on/off

Press and hold A+SELECT+START to turn the light on/off.

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11. Macro and Mapping Settings

11.1 Default programming buttons: FL = D-PAD Left, FR = D-PAD Right, ML = L3, MR = R3.

11.2 Assignable buttons: LEFT STICK, RIGHT STICK, A, B, X, Y, LB, LT, RB, RT, L3, R3, directional keys, SELECT and START.

11.3 Settings steps

① Press and hold TURBO+ML/MR/FL/FR for 2 seconds, the indicators LED2+LED3 will start flashing slowly.

② Press the assignable button – or a string of commands, and finally press either ML, MR or any of the programming button to exit. The LED light returns to the original state when the macro and mapping are completed.

A macro can hold up to 32 commands, but only assignable buttons may be used.

11.4 Clearing macro

Press TURBO+ML/MR/FL/FR for 2 seconds, the indicators LED2+LED3 will flash slowly, then press ML/MR/FL/FR that needs to be cleared.

11.5 Macro remains after the controller is turned back on.

12. Turbo setting

12.1 The buttons that can be set are: A, B, X, Y, LB, LT, RB, RT, L3, R3, directional keys.

12.2 Steps

① Press and hold one of the above buttons+TURBO, the semi-automatic burst will be activated.

② Press and hold the same button+TURBO again, the full-automatic burst will be activated.

③ Press and hold the same button+TURBO again, the burst will be deactivated.

12.3 Cancelation for all buttons

Press and hold TURBO for 5 seconds to clear the burst function of all buttons.

12.4 Turbo burst rate adjustment

① TURBO+START will increase the burst rate.

② TURBO+SELECT will reduce the burst rate.

③ There are three speed settings: Slow (8 times/second), Medium (16 times/second), and Fast (21 times/second).

12.5 All the TURBO settings will be removed once the controller is turned off.

13. Controller Vibration Settings

13.1 There are four vibration levels: Strong (100%), Medium (70%), Weak (30%) and Off (0).

13.2 Default setting: Medium

13.3 Vibration level setting: press and hold TURBO and press the LEFT STICK UP/DOWN to adjust the vibration level. UP to increases the intensity, and DOWN to decrease the intensity.

① Weak vibration: the indicator LED1 flashes once with low vibration.

② Medium vibration: the indicators LED1+LED2 flash once with medium vibration.

③ Strong vibration: the indicators LED1+LED2+LED3 flash once with strong vibration.

④ Turned off: the indicators LED1+LED2+LED3+LED4 flash once, without any vibration.

13.4 The vibration settings remain when the controller is turned back on next time.
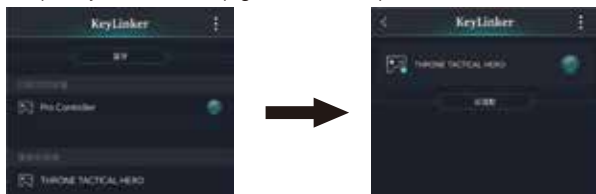
14. Reset function

14.1 Forced reset: when the controller malfunctions, freezes, or experiences other abnormalities, press RESET on the back of the controller for 1 second and the controller will be forced to reset.

14.2 Restore default factory settings: press and hold TURBO for 10 seconds to restore the default factory settings and the controller will vibrate once.

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15. APP Setting

15.1 Android platform

① Open Google Play, search and download KeyLinker.

② Refer to Step 5 and connect the controller to your Android device.

③ Open Keylinker, refresh the page and select Gamepad.

④ Click on ⬤ to enter the Settings page. Buttons, Joysticks, Triggers, Vibrations, Turbo, Lighting Effects, and Sleep Mode can be customized here.

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按键设置　　　摇杆设置　　　扳机设置　　　震动设置　　　Turbo设置　　　灯光设置　　　休眠时间设置

⑤ Click on ⋮ in the top corner and select Advanced Settings for more detailed settings.

⑥ Click on Apply at the bottom to complete the settings.

15.2 iOS platform

① Open App Store, search and download KeyLinker.

② Refer to Step 6 and connect your controller to your iOS device.

③ Open KeyLinker, refresh the search page, select Xbox Wireless Controller.

④ Click on ⚫ to enter the Settings page. Buttons, Joysticks, Triggers, Vibrations, Turbo, Lighting Effects, and Sleep Mode can be customized here.

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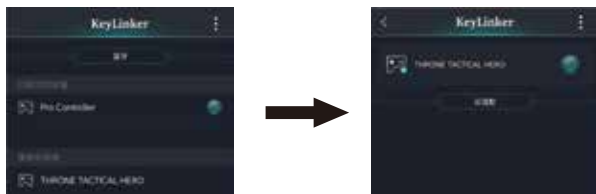按键设置   摇杆设置   扳机设置   震动设置   Turbo设置   灯光设置   休眠时间设置

⑤ Click on ⋮ in the top corner and select Advanced Settings for more detailed settings.

⑥ Click on Apply at the bottom to complete the settings.

16. Function Buttons Reference Table

Platform Button	NS	PC X-INPUT	Android HID	iOS MFi
LEFT STICK	LEFT STICK	LEFT STICK	LEFT STICK	LEFT STICK
RIGHT STICK	RIGHT STICK	RIGHT STICK	RIGHT STICK	RIGHT STICK
D-PAD	D-PAD	D-PAD	D-PAD	D-PAD
A	A	A	A	A
B	B	B	B	B
X	X	X	X	X
Y	Y	Y	Y	Y
LB	L	LB	L1	L1
LT	ZL	LT	L2	L2
L3	L3	LB	L3	L3
RB	R	RB	R1	R1
RT	ZR	RT	R2	R2
R3	R3	RB	R3	R3
SELECT	−	BACK	SELECT	Double click for screenshot
START	+	START	START	Pause
○	○			
HOME	HOME	HOME	HOME	
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17. Summary

Function	Action	Note
Reconnect to device	Tap on HOME	
Turn off the controller	Press and hold HOME for 5 seconds	
BT pairing	Press and hold HOME for 3 seconds	Also displays the current battery level
Switch X-input/D-input under wired connection	Toggle to PC, press and hold SELECT+START for 6 seconds	
Connect PC and Switch console under wired connection	Toggle to NS platform and connect the controller to PC with a data cable	
Connect to PC X-input under BT connection	Toggle to PC platform, press and hold HOME for 3 seconds	
Connect to Android devices under BT connection	Toggle to AN, press and hold HOME for 3 seconds	
Connect to iOS device under BT connection	Toggle to iOS platform, press and hold HOME for 3 seconds	
Connect to NS under BT connection	Toggle to NS platform, press and hold HOME for 3 seconds	
Joystick and gyroscope manual calibration	Press and hold SELECT+START+X for 1 second to begin the calibration, press START to complete	When the controller is turned on
Swap button values of A, B, X, and Y	Press and hold SELECT+START+B for 1 second	
Swap button values of D-PAD and RIGHT STICK	Press and hold SELECT+START+L3 for 1 second	
Switch actuation points for joysticks	Press TURBO and SCREENSHOT for 2 seconds	
Remap gyroscope control to LEFT STICK	Press START+L3 for 3 seconds	
Remap gyroscope control to RIGHT STICK	Press START+R3 for 3 seconds	
Reverse X axis during gyroscope control	Press START+X for 1 second	Only available when remapping gyroscope control to LEFT/RIGHT STICK is successful
Reverse Y axis during gyroscope control	Press START+Y for 1 second	Only available when remapping gyroscope control to LEFT/RIGHT STICK is successful

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Function	Action	Note
Adjust sensitivity of X axis during gyroscope control	Press START+D-PAD LEFT/RIGHT	Only available when remapping gyroscope control to LEFT/RIGHT STICK is successful
Adjust sensitivity of Y axis during gyroscope control	Press START+D-PAD UP/DOWN	Only available when remapping gyroscope control to LEFT/RIGHT STICK is successful
Turn RGB lights on/off	Press and hold SELECT+START+A for 1 second	
Switch lighting effects	Press and hold SELECT+D-PAD UP/DOWN	
Switching lighting color	Press and hold SELECT+D-PAD LEFT/RIGHT	Effective in both "Constant On" and "Breathing" modes
Switching lighting brightness	Press and hold SELECT+LEFT STICK UP/DOWN	
Mapping setup	Press TURBO+M1/M2 -> assignable buttons -> M1/M2	
Clear mapping	Press TURBO+M1/M2 -> M1/M2	
TURBO setup	Press TURBO+assignable buttons	
Instant clear TURBO	Press and hold TURBO for 5 seconds	
TURBO speed	Press TURBO+SELECT/START	3 levels of speed
Vibration	Press TURBO+LEFT STICK UP/DOWN	4 levels of vibration
Reset	Press and hold RESET for 1 second	
Restore factory setting	Press and hold TURBO for 10 seconds	Clear TURBO, vibration, macro and mapping settings

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FCC STATEMENTS

NOTE: 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 radiate 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 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 into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADA (IC) STATEMENTS

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

⚠ WARNING

M/N [型號/型号]: C.A.T. 17

FCC ID: 2ASFYGCSWDOINWH003   IC: 24750-GCSWDOINWH0

HVIN: GCSWDO01   PMN: GCSWDO01

Made in China [中國製造/中国制造]

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