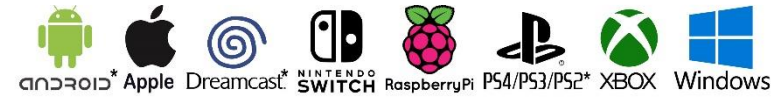


GAME CONTROL MIXER 1 HANDED

OneSwitch.org.uk and Celticmagic.org

Multi-platform one-handed gaming adapter. Use with 2x Nintendo Joy-Cons (needs connector + T2 blue-tooth kit) or one or two gamepads. Can be used with Xbox Adaptive Controller and various controllers.

Includes mouse and joypad modes. 24 thumb-stick modes to make play easier. Mix in PC controls if wanted.



Right-Handed play with a standard controller (slots 7-8).

Left-Handed play with a standard controller (slots 5-6).



Use 2x **Nintendo Switch Joy-Cons** as a single controller on PS4, Xbox One, etc. (slots 0-5).

Requires Blue-tooth module. Slot 1 = Mouse. Slot 2 = Xbox 360/PC.

Slot 3 = AUTO. Slot 4 = PS4.



Titan Two SLOTS 0-4 (Joy-Cons)

CHANGE SLOTS* = T2 UP/DOWN buttons

HOLD UP until display rolls to pair with blue-tooth controllers. See [JOY-CON HELP](#).



SHIFT = **—** / TOUCH /  / select / back

SHIFT enables extra control.

SLOT 0 = BASIC USE AUTO detects platform. No special features.

SLOT 1 = MOUSE Experimental feature that may require a PC restart to work correctly.



LEFT-STICK = Mouse (LS/L3 = change speed R-STICK = Precise Mouse Y/ = AXIS lock x-axis/y-axis/OFF)

B/ = LEFT-CLICK **A/ = RIGHT-CLICK** **X/ = DRAG** (RED LED when active) **ZR/R2 = DOUBLE-CLICK**
+ / OPTIONS (TAPPED) = ALT+F4 or (HELD) = Escape **D-PAD = CURSORS** **ZL/L2 = ENTER** *SHIFT x6 = GOTO SLOT 2

SLOT 2 = PC JOYSTICK Xbox 360 output protocol for PC, RetroPie and more. See HELP Connecting section.



24 Joystick Modes (see Thumb-stick Mode guide)

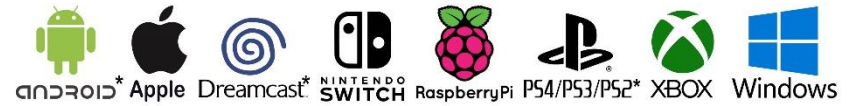
- (SHIFT x2) **+ (SHIFT x3)** **L3+R3 (SHIFT x4)** **SHARE (SHIFT x5)**

***CHANGE SLOT:** In mode N6, press SHIFTx6, rotate stick to change number 1-8, then SHIFT to activate)

SLOT 3 = AUTO (same as slot 2 but for use with PS4, Xbox One, Nintendo Switch, etc. - see HELP Connecting section)


SLOT 4 = PS4

NOTE: ZL and ZR are digital only. You can connect two extra wired controllers to add to this set-up if helpful. Tap Joy-Con sync buttons to turn them off.



SLOT 5 = LEFT HANDED PC
SLOT 6 = AUTO


L1 = SHIFT + actual L1
 L2 = SHIFT + actual L2
 D-PAD = SHIFT + actual D-pad (or W2)

SHIFTx2 = TOUCH /  / -
 SHIFTx3 = R3 (or SHIFT + L3)
 SHIFTx4 = L3 + R3
 SHIFTx5 = SHARE (or OPTIONS)
 Also see [GCM Thumb-stick Modes](#) page.



SLOT 7 = RIGHT HANDED PC
SLOT 6 = AUTO

L1 = SHIFT + R1
 L2 = SHIFT + R2
 D-PAD = SHIFT + Shapes (or W2)

SHIFTx2 = TOUCH /  / -
 SHIFTx3 = L3
 SHIFTx4 = L3 + R3
 SHIFTx5 = SHARE (or OPTIONS)
 Also see [GCM Thumb-stick Modes](#) page.



TO CHANGE SLOT FROM GAMEPAD: In [joystick mode N6](#), press SHIFTx6, rotate stick to change number 1-8, then SHIFT to activate.

Connect via USB or Blue-Tooth if kit fitted. [See HELP for more](#). Many modern-day USB controllers will work. **NOTE:** For PS4/Xbox One use, a PS4/Xbox One official controller must be connected via USB to the front of the Titan Two. This satisfies Sony/Microsoft connectivity requirements.

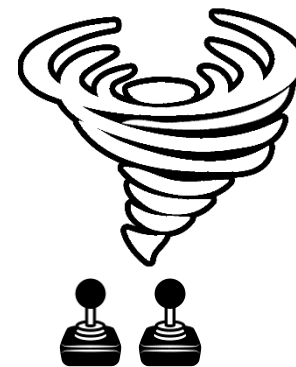
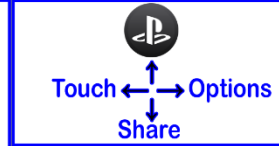
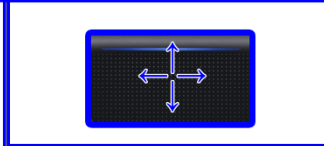
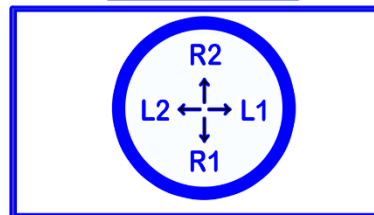
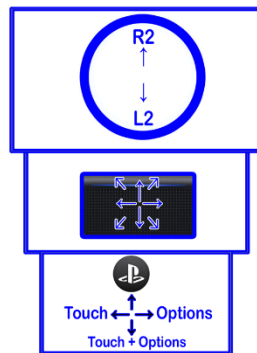
GCM Thumb-stick Modes



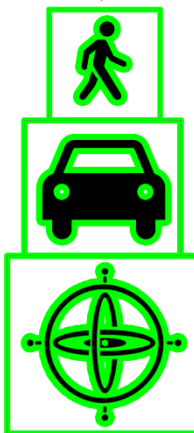
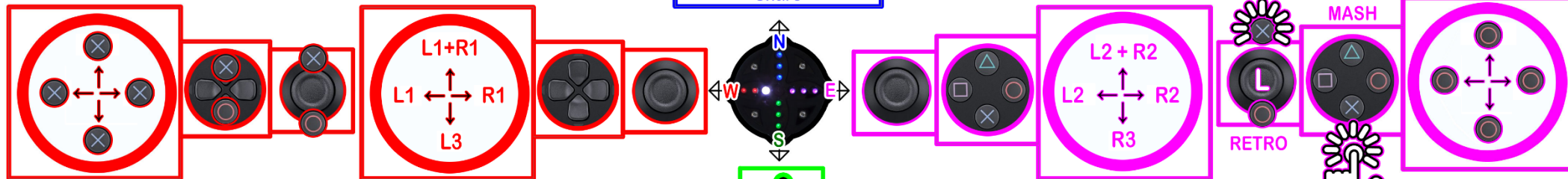
SHIFT + move either stick 1-6 times North, East, South or West to change function. The Titan Two display will indicate the joystick mode via a colour, number and dot. Up to 2 sticks can be changed at any time.



- N1 = Menu buttons
- N2 = PS4 Touch-pad
- N3 = Shoulder buttons
- N4 = (Menu buttons for RetroPie)
- N5 = PS4 Touch-pad Analogue
- N6 = R2 / L2

- W1 = Left-stick
- W2 = D-pad
- W3 = L1, R1, L3
- W4 = Left-stick left/right, Cross + Circle
- W5 = D-pad left/right, Cross + Circle
- W6 = CROSS stick. Stick becomes a single button.



- E1 = Right-stick
- E2 = Shape buttons
- E3 = L2, R2, R3
- E4 = RETRO [constantly mashes CROSS button]
- E5 = MASH Shapes [hold for button mashing action]
- E6 = CIRCLE stick.

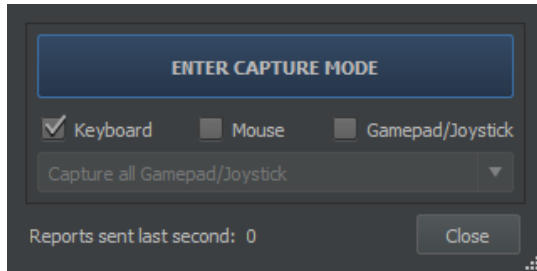


Shift = TOUCH /  /  / select / back

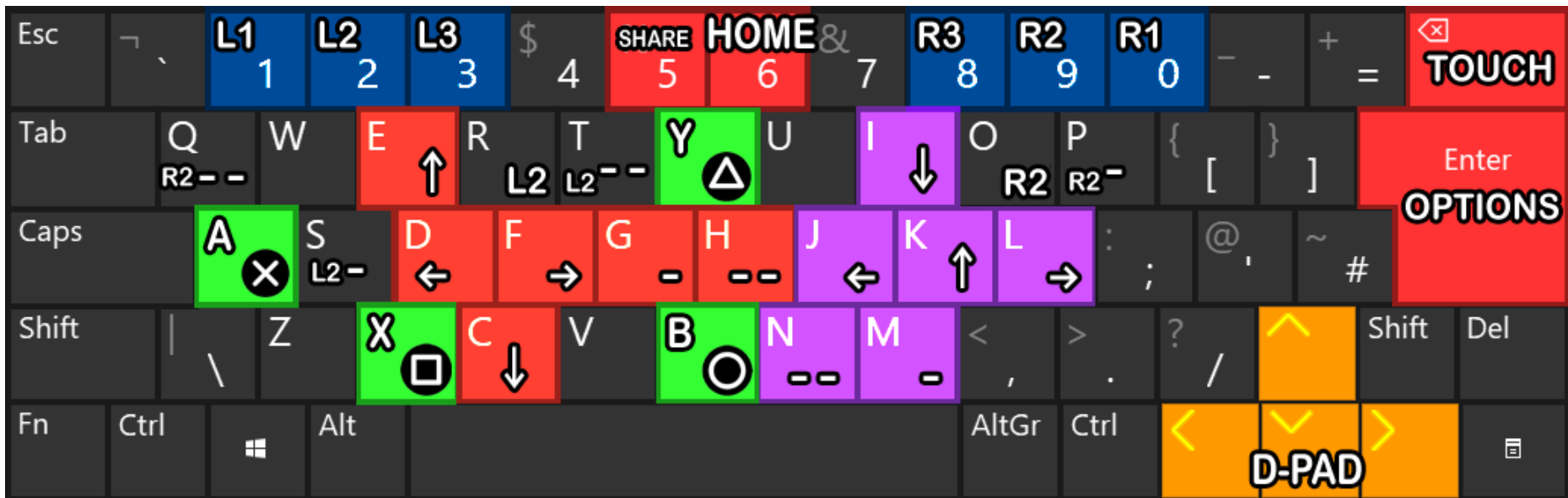
- S1 = Explorer. Explore 3D worlds.
 ← → = r-stick look left/right. ↑ = walk forward.
 ↓ = back / look-up / back / look-down.
- S2 = Driver [left/right/L2 and R2].
- S3 = PS4 Six-Axis [Everybody's Gone to the Rapture]
- S4 = Basic Explorer. Simpler version of S1.
- S5 = Drive Slow. Easier to control version of S2.
- S6 = PS4 Six-Axis [Flower]

KMG Capture: Mixing in Windows 10 controls

Keyboard, Mouse and Gamepad (KMG) controls can be “captured” from a Windows PC and added to a control mix. PC apps such as Voice Attack (speech recognition), Project Iris (eye-gaze), JoyToKey and Universal Control Remapper (advanced gamepad to keyboard converters) are ideal.



1. Connect the **short USB cable** between **T2 PROG** and **PC**. Connect the **long USB cable** between **T2 OUTPUT** and your **Games Machine/PC**. Cables must be of a high-quality, e.g. Aukey CB-D9 2M cable.
2. Start the **GTuner IV utility** (download free via consoletuner.com). Select a gaming slot (e.g. slot 2). Press **F4** and then with at least Keyboard ticked, click on “ENTER CAPTURE MODE”.
3. Click on the Device Monitor tab and experiment with the keys below.



LEFT-STICK = CDEF (+G +H +GH to incrementally reduce strength). E.g. **C G H** all held at the same time = left-stick DOWN softest]

RIGHT-STICK = IJKL (+M +N +MN)

L2 = R (+S +T +ST) **R2** = O (+P +Q +PQ).

ACCELEROMETER = ACCEL_1_X -100% = Number Pad 1 ACCEL_1_X +100% = 2 ACCEL_1_Y -100% = 3 ACCEL_1_Y +100% = 4.

GYRO = GYRO_1_X -100% = Number Pad 5 GYRO_1_X +100% = 6 GYRO_1_Y -100% = 7 GYRO_1_Y +100% = 8

HELP

JOY-CON HELP: **1.** Make sure your two controllers are charged (you may need a docking station for this) and you have a Blue-Tooth module fitted to your Titan Two adapter. **2.** Slide them free from the 3D printed connector to expose the small “sync” push button. **3.** Hold T2 UP button until display rolls then hold the left Joy-Con sync button until it rolls. Wait for it to go steady. **4.** Repeat step 3 but for the right Joy-Con. **5.** Slide back into the joiner, choose slot on T2 then play. **6. In future, just press a button on the left-side and a button on the right-side to wake them both up.**

PS4 WIRELESS CONNECTION: **1.** Make sure your PS4 controller is well-charged. **2.** Hold **SHARE** + **PS** home button together until a white light bar pulses. **3.** Hold UP on the Titan Two until the display rolls. Pairing should happen quickly. **NOTE:** If using with a PS4 console, a wired controller must be connected to the Titan Two for authentication purposes.

HELP Connecting T2 INPUT A = left front USB socket

Android: INPUT-A optional. Requires an On-The-Go adapter to suit your device. Use PC or PS4 slot for gamepad games or a Mouse slot for touch games.

iOS: Requires an Apple USB 3.0 camera adapter with connected Apple iPad power adapter (or 2.0 amp quality alternative). Use Mouse mode for touch (use touch assist mode in accessibility options) and PS4 with PS4 controller attached for Gamepad.

Nintendo Switch: INPUT-A optional. Use AUTO (or custom Nintendo) slot. Use L+R (or W3 + UP) to sync GCM.

PC: INPUT-A optional. Use a PC or PS4 slot. Can use AUTO if a XAC is attached for Xbox One type control.

PS4: INPUT-A PS4 controller essential. Use an Auto or PS4 slot. Set PS4 console to “Use USB Cable option” via Setting > Devices > Controllers > Communication Method.

PS3: INPUT-A optional. Use Auto slot. Use HOME to set as controller 1.

PS2: INPUT-A optional. Use PS4 slot. Requires a PS3/PS4 to PS2 Brook adapter that has been updated.

Raspberry Pi/RetroPie: INPUT-A optional. Use a PC slot.

SEGA Dreamcast: INPUT-A optional. Use PS4 slot. Requires a Brook adapter. Connect Brook PS3/PS4 to Dreamcast adapter to Dreamcast (if not in green LED mode –hold adapter button for 5 seconds). Titan PS4 slot. Additional power is needed (connect to a Raspberry Pi USB power supply). VMU access can only be achieved by physically swapping back to a standard Dreamcast controller for most games, during loading/saving.

Xbox One: INPUT-A Xbox1 controller essential (if XAC ensure fully charged, if Xbox Gamepad, remove batteries). Use Auto slot.

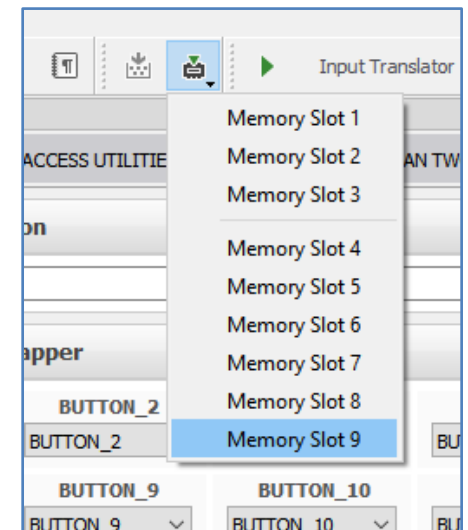
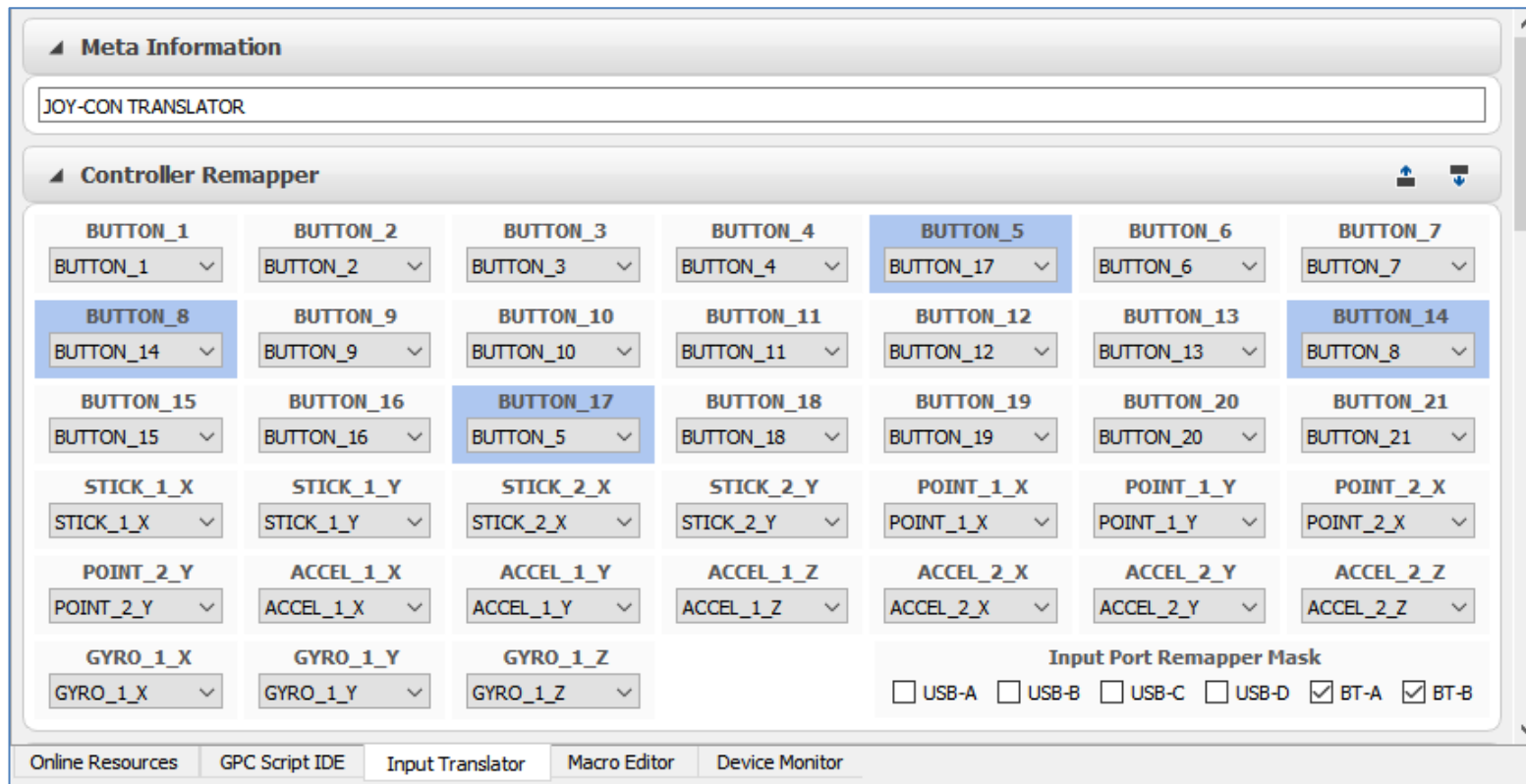
Xbox 360: INPUT-A Xbox 360 hard wired controller essential. Use PC slot.

Wii-U Wireless: Requires T2 Bluetooth kit. **1.** Press “A” on a Wii remote. **2.** Pair Titan Two to Wii-U (hold UP on T2 until display rolls, then press red sync button on Wii-U. When paired, press “B” on Wii remote. Press HOME x2 on your controller. Go to controller settings. Press “A”. Select Wii Remote/other controller settings. “A”. Change order. “A”. Home. “B” repeatedly to go back to Wii U Menu. Good luck! It’s tricky.

Wii and Wii-U: Connect Wii-mote to Maxgear Cross Fighter adapter only. Start Wii/Wii-U (sync controller if needed). Press “A” when asked. Connect Wii to rear of Maxgear adapter via USB to USB cable. Count to 10. Connect Titan Two output socket to front of Maxgear adapter with the short USB lead. A good connection is indicated by the Wiimote LED being on, and the T2 having a green LED for OUTPUT and for INPUT sockets. Make sure the Titan is in slot 1 or 5 (forced Xbox 360 mode). Reconnect the T2 if not. Start again if this still does not connect.

SLOT 9: Remapping Basic Controls

1. **Connect GCM XAC Titan Two adapter to a Windows PC** (use the short USB lead via the T2 PC Prog connector) then **Start GTuner IV** software (download from www.consoletuner.com/downloads).
2. **Edit a GCM Input Translator File.** Click on the Input Translator tab. Drag a .git file onto the blank window (e.g. BASIC TRANSLATOR.git via this [OneSwitch dropbox link](#)) or start afresh. Click on the controller/s you want to be remapped (e.g. BT-A and BT-B for Blue-tooth controllers such as a Joy-Con). Press **F1** for a controller guide to help (COPIED ON NEXT PAGE). Below, I have swapped ZL with the X button, and ZR with the Y button. Swap the controls as you need. Rename the Meta Information as you wish. Save if you wish.



3. **Copy to slot 9.** Do this via the "Install Active Work to Memory Slot" icon (pictured above right, next to the green arrow). Test in the "Device Monitor" tab. Slot 9 is free for experimentation.

GPC Input Reference



	GPC Designator	PlayStation 4	Xbox One	Nintendo Switch	PlayStation 3	Xbox 360	Wii / Wii U
0	BUTTON_1	PS	Xbox	Home	PS	Guide	Home
1	BUTTON_2	Touch Click	View	Minus	Select	Back	Minus
2	BUTTON_3	Options	Menu	Plus	Start	Start	Plus
3	BUTTON_4	R1	RB	R	R1	RB	R
4	BUTTON_5	R2	RT	ZR	R2	RT	ZR
5	BUTTON_6	R3	RS	RS	R3	RS	SR / Two
6	BUTTON_7	L1	LB	L	L1	LB	L / C
7	BUTTON_8	L2	LT	ZL	L2	LT	ZL / Z
8	BUTTON_9	L3	LS	LS	L3	LS	SL / One
9	BUTTON_10	DPad Up	DPad Up	DPad Up	DPad Up	DPad Up	DPad Up
10	BUTTON_11	DPad Down	DPad Down	DPad Down	DPad Down	DPad Down	DPad Down
11	BUTTON_12	DPad Left	DPad Left	DPad Left	DPad Left	DPad Left	DPad Left
12	BUTTON_13	DPad Right	DPad Right	DPad Right	DPad Right	DPad Right	DPad Right
13	BUTTON_14	Triangle	Y	X	Triangle	Y	X
14	BUTTON_15	Circle	B	A	Circle	B	A
15	BUTTON_16	Cross	A	B	Cross	A	B
16	BUTTON_17	Square	X	Y	Square	X	Y
17	BUTTON_18	Share	P1	Capture			
18	BUTTON_19	Touch P1	P2	SL			Infrared P1
19	BUTTON_20	Touch P2	P3	SR			Infrared P2
20	BUTTON_21		P4				
21	STICK_1_X	Right Stick X	Right Stick X	Right Stick X	Right Stick X	Right Stick X	Right Stick X
22	STICK_1_Y	Right Stick Y	Right Stick Y	Right Stick Y	Right Stick Y	Right Stick Y	Right Stick Y
23	STICK_2_X	Left Stick X	Left Stick X	Left Stick X	Left Stick X	Left Stick X	Left Stick X
24	STICK_2_Y	Left Stick Y	Left Stick Y	Left Stick Y	Left Stick Y	Left Stick Y	Left Stick Y
25	POINT_1_X	Touch P1 X					Infrared P1 X
26	POINT_1_Y	Touch P1 Y					Infrared P1 Y
27	POINT_2_X	Touch P2 X					Infrared P2 X
28	POINT_2_Y	Touch P2 Y					Infrared P2 Y
29	ACCEL_1_X	Accel X		Accel X	Accel X		Accel X
30	ACCEL_1_Y	Accel Y		Accel Y	Accel Y		Accel Y
31	ACCEL_1_Z	Accel Z		Accel Z	Accel Z		Accel Z
32	ACCEL_2_X			Joy Acc X			Nunchuk Acc X
33	ACCEL_2_Y			Joy Acc Y			Nunchuk Acc Y
34	ACCEL_2_Z			Joy Acc Z			Nunchuk Acc Z
35	GYRO_1_X	Gyro X		Gyro X			
36	GYRO_1_Y	Gyro Y		Gyro Y			
37	GYRO_1_Z	Gyro Z		Gyro Z	Gyro Z		

CONNECTION TROUBLE SHOOTING

1. Unless using a PC to console link-up, **only** use the supplied short gold USB cable between your games machine and the Titan Two. Avoid USB extension leads. Use long HDMI cables to bring the games machine closer to you if needed. Make sure all connections are firmly in place. If LED lights flicker continuously, try a different cable or controller. You may have a poor connection.
2. Make sure you are in the correct slot. Press the UP button slowly step by step to get there.
3. Unplug and re-plug the Titan adapter. Disconnect XAC. Hold Xbox button until light goes out. Alternatively, power down Xbox One controller or power off PS4 controller (press tiny button on back with paperclip). Reconnect in a different USB socket.
4. Advanced: If updating the T2 firmware, you must also update the SD card by pressing the “Configure” button in GTuner IV Device Configuration window.

N.B. Do not use round power socket on T2. Only use extra power as detailed on previous page.

For more help with your One Handed Controller kit, including how to obtain Joy-Con 3D printed joiners and lighten a controller contact barrie.ellis@oneswitch.org.uk. The Game Control Mixer is a joint project between OneSwitch.org.uk and [Celtic Magic](#). We are indebted to Jefferson Koppe ([ConsoleTuner.com](#)) and Scachi for their invaluable help. Thanks also to Zachary Gage for recommendation to look into the Joy-Con method and of course to [Rami Wehb](#) at [OneHandDesigned](#) for his brilliant 3D printed Joy-Con joiners.



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