

TURN GTE DIY BILL OF MATERIALS

PRODUCT NAME	TURN GTE	CONTACT INFO
APPROVED BY	Zach Hodgson	support@turnracing.com
TOTAL COST	Varies	



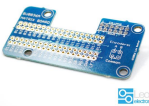




Hardware Suppliers



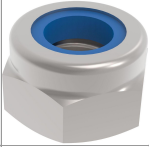


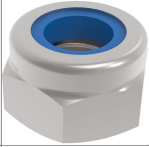

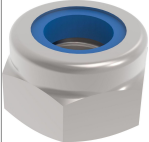
<https://www.albanycountyfasteners.com/>

<https://www.accu.co.uk/en/>






<https://www.gwr-fasteners.co.uk/>

PART NUMBER	PART NAME	DESCRIPTION	PART IMAGE	QUANTITY	SUPPLIER / MANUFACTURER	UNIT COST	TOTAL PART COST
	Turn Paddle Shifter	Anodized aluminum neodymium snap action shifter		1 (pair)	https://www.turnracing.com/collections/accessories/products/turn-paddle-shifter	\$ 145.00	\$ 145.00
BU0836A	USB Controller	A small USB joystick interface board		1	http://www.leobodnar.com/shop/index.php?main_page=product_info&cPath=94&products_id=219	\$ 35.43	\$ 35.43
BU0836A	Breakout Board	A small add on board that provides an easy matrix circuit for the BU0836A		1	http://www.leobodnar.com/shop/index.php?main_page=product_info&cPath=94&products_id=274	\$ 21.25	\$ 21.25
IPP3SAD2	Apem Black Flat Top Push Button	This is the same button used in the real car. They are what I use on the Turn R8 LMS wheel as well. They are quite expensive and difficult to source so I put a link to a page that shows several suppliers with prices		12	https://octopart.com/ipp3sad2-apem-7548694	\$ 23.58	\$ 282.96
GPB556A05BB	CW Industries Push Button	Low cost flat top button alternative		12	https://www.digikey.com/en/products/detail/cw-industries/GPB556A05BB/3193531	\$ 5.77	\$ 69.24
PV5S24011	E-Switch Push Button	momentary switch		12	https://www.digikey.com/product-detail/en/e-switch/PV5S24011/EG5949-ND/4028816	\$ 4.51	\$ 54.12

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CTS 288 Short Shaft	Rotary Encoder	Shaft Length: 10.5mm - 16 detents per revolution - 1 pulse per detent - 1:1 mode in our encoder config software - Shaft diameter: 1/4"		5	http://www.leobodnar.com/shop/index.php?main_page=product_info&cPath=98_75&products_id=243	\$ 6.37	\$ 31.85
	M5x.8 65mm Socket Screw	Button Head Hex Drive Screw, 18-8 Stainless Steel, M5 x 0.80mm Thread, 65mm Long Wheel hub/Main Plate bolt		3	https://www.accu.co.uk/en/socket-button-screws/155111-SSB-M5-65-A2-BL	\$ 0.56	\$ 1.68
	M5 Hexagon Nylon Lock Nut	18-8 Stainless Steel Nylon-Insert Locknut, M5 x 0.8 mm Thread. 3 for wheel hub, 6 for grips.		9	https://www.accu.co.uk/en/hexagon-nylon-locking-nuts/7947-HNN-M5-A2	\$ 0.45	\$ 3.24
	M4x6mm Set Screw	Set Screw for Encoder Knob		5	https://www.accu.co.uk/en/cup-point-set-screws/5028-SSU-M4-6-A2	\$ 0.46	\$ 2.30
	M2.5x.45 25mm Flat Head Screw	Button Head Hex Drive Screw, Black-Oxide Alloy Steel, M2.5 x 0.45 mm Thread, 25 mm Long for mounting the Bodnar boards		4	https://www.mcmaster.com/91239A769/	\$10.95 for 25	\$ 10.95
	M2.5x.45 lock nut	Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc Plated, M2.5 x 0.45 mm Thread, 3.8 mm High for mounting the Bodnar boards		4	https://www.accu.co.uk/en/hexagon-nylon-locking-nuts/7943-HNN-M2-5-A2	\$ 0.56	\$ 2.24
	M3x.5 18mm screw	Black-Oxide Alloy Steel Hex Drive Flat Head Screw, M3 x 0.5 mm Thread, 18 mm Long for button covers and trim pieces		6	https://www.accu.co.uk/en/countersunk-socket-head-screws/153241-SSK-M3-18-A2-BL	\$ 0.32	\$ 1.92
	M3x.5 lock nut	Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc Plated, M3 x 0.5 mm Thread, 4 mm High for button covers and trim pieces		6	https://www.accu.co.uk/en/hexagon-nylon-locking-nuts/7944-HNN-M3-A2	\$ 0.31	\$ 1.86

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	M5x.8 25mm screw	Black-Oxide Alloy Steel Socket Head Screw, M5 x 0.8 mm Thread, 25 mm Long for grips		6	https://www.accu.co.uk/en/low-head-cap-screws/155497-SSCL-M5-25-A2-BL	\$ 0.46	\$ 2.76
	M3x.5 30mm screws	Button Head Hex Drive Screw, Black-Oxide Alloy Steel, M3 x 0.50 mm Thread, 30 mm Long to mount ALUMINUM shifters. 3d printed shifters require longer bolts and 4 additional M3 lock nuts		4	https://www.accu.co.uk/en/socket-button-screws/155060-SSB-M3-30-A2-BL	\$ 0.36	\$ 1.44
	M3x.5 10mm screws	Button Head Hex Drive Screw, Black-Oxide Alloy Steel, M3 x 0.50 mm Thread, 10 mm Long for mounting paddles to ALUMINUM shift levers. For 3D printed shift levers, longer bolts and 4 additional M3 lock nuts are required		4	https://www.accu.co.uk/en/socket-button-screws/155052-SSB-M3-10-A2-BL	\$ 0.33	\$ 1.32
	M4 x 30mm Socket Button Screw			4	https://www.accu.co.uk/en/socket-button-screws/155262-SSB-M4-30-A4-BL		
KVF 40	4 pin connector	Connector Socket PA GF (Body) Front Mount VDC IEC Approved		1	https://www.alliedelec.com/product/lumberg/kfv-40/70151670/	\$ 3.27	\$ 3.27
						TOTAL	Varies