

Parts List for Motorised Headrest controller battery pack

Description	Manufacturer	Supplier	Link
Actuator, 50mm, 12V	Generic IP60-50/108-S1-12V-Y	Ebay	https://www.ebay.co.uk/itm/155487490939
Motor Control Board, H-bridge 2A	Adafruit 3190 (DRV8891)	Rapid Online 73-0178	https://www.rapidonline.com/adafruit-ada3190-adafruit-drv8871-dc-motor-driver-breakout-board-3-6a-max-73-0178
Battery Management System (BMS) Board 2S 0.5A	DedicateStore	Ebay	https://www.ebay.co.uk/itm/375522125972
Charger Board - LiPo 8.4V 0.5A	Generic "2S05A"	AliExpress	https://www.aliexpress.com/item/32992417346.html
Battery LiPo 3.7V 1200mAh x 2	LiPo-Fatty	Ebay	https://www.ebay.co.uk/itm/265471650956
Enclosure - Battery Pack, Black ABS	Hammond 1599BBKBAT 130 x 65 x 35	RS 262-6424	https://uk.rs-online.com/web/p/hand-held-enclosures/2626424
Enclosure - Buttons	CamdenBoss 58 x 28 x 18	RS 457-4303	https://uk.rs-online.com/web/p/potting-boxes/4574303
Push button x 2	Diptronic DTSM-24N-B	Rapid Online 78-1168	https://www.rapidonline.com/diptronics-dt-sm-24n-b-tact-switch-12-x-12mm-sq-160gf-smt-78-1168
Push button cap x 2	Diptronic KTSC-22I	Rapid Online 78-1192	https://www.rapidonline.com/diptronics-ktsc-22i-ivory-button-12-x-12mm-round-78-1192
Stereo 3.5mm jack socket, panel		RS 907-5680	https://uk.rs-online.com/web/p/products/9075680/
Stereo 3.5mm jack plug, free, right-angle			
Cable assembly, stereo jack plug to bare end		Ebay	www.ebay.co.uk/itm/192313778413
DC power connector, panel, 2.1mm			
Charger power block 9V 1A regulated		Stock 19V 200mA	
Connector, 2-pin plug, free (for motor)	Binder 710 series	RS 468-857	https://uk.rs-online.com/web/p/industrial-circular-connectors/0468857
Connector, 2-pin socket, panel	Binder 710 series	RS 129-6662	https://uk.rs-online.com/web/p/industrial-circular-connectors/1296662
Connector, 2-way free JST 2.0mm (for batteries)	JST PHR-2	RS 820-1466	https://uk.rs-online.com/web/p/wire-housings-plugs/8201466

Contacts, JST 2.0mm x 2 (for batteries)	JST BPH-002T-P0.5S	RS 820-1456	https://uk.rs-online.com/web/p/crimp-contacts/ 8201456
Connector, 2-way, header solder JST 2.0mm (for batteries)	JST S2B-PH-K-S(LF) (SN)	RS 820-1494	https://uk.rs-online.com/web/p/pcb-headers/8201494