

Item Name	MFG / Distributor	MFG Part Number	Digi-Key P/N	Quantity	Price	Extension	Description	Optional	Comments
ITU LED - Amber			5102H3-12V-ND	1	\$1.92	\$1.92	Amber LED – w/internal resistor		
Up LED - Red			5102H1-12V-ND	1	\$1.92	\$1.92	Red LED – w/internal resistor		OPTIONAL
Down LED - Green			5102H5-12V-ND	1	\$1.92	\$1.92	Green LED – w/internal Resistor		
EMF Lock/Unlock / AE Override	Carling	2GK51-73	432-1080-ND	1	\$5.82	\$5.82	DPST NC Override Switch	Digikey 360-3244-ND (NKK M2021SS1W01) - retrofit for Wilhelmson switch hole	
Throttle < 10% Switch			SW247-ND	2	\$3.08	\$6.16	Lever Microswitch		Any appropriate microswitch
Diode			1N4007GOS-ND	7	\$0.18	\$1.26	Coil protection diodes		
Alt. Laser Transistor Switch			497-2616-5-ND	1	\$0.89	\$0.89	Transistor Switch for Altimeter Alarm Output		
Auto Extend Relay			PB614-ND	1	\$18.65	\$18.65	3PDT Relay - non-polarized		
Up & Down Relays			PB349-ND	2	\$15.43	\$30.86	DPDT Relay - non-polarized		
LG Circuit Connector - P1	Molex, LLC	50841090	WM1250-ND	1	\$0.43	\$0.43	CONN PLUG 9 POS .084"		
Sockets for Connector - P1			WM1271-ND	9	\$0.10	\$0.90	Sockets for Plug		
Motor Connector	Molex, LLC	50842090	WM1251-ND	1	\$0.92	\$0.92	CONN RECEPTACLE 9 POS .084"		Only need if Wilhelmson system not used
Pins for Connector			WM1270-ND	9	\$0.10	\$0.90	Pins for Receptacle		Only need if Wilhelmson system not used
Current Limiting Resistor			560KH-ND	1	\$0.10	\$0.10	560 Ohm Base current limit resistor		
Dimming Resistor			3.6KQBK-ND	1	\$0.10	\$0.10	Brightness Dropping Resistor		
Switch Cover	Bulgin	TG1-RED	1091-1134-ND	1	\$6.82	\$6.82	TOGGLE SWITCH GUARD RED		
ITD LED - Blue	SloanLED	240-126		1	\$5.81	\$5.81	Blue LED – w/internal resistor		Allied Electronics P/N 70015794 (OPTIONAL)
LG Up / Down Switch	Carling	HM251-73		1	\$9.32	\$9.32	3PDT Toggle Switch (ON-OFF-ON)	Digikey EG2426-ND (E-Switch 1003P3T1B1M1QE)H) - retrofit for Wilhelmson switch hole	Allied Electronics P/N 70131553 or McMaster-Carr MCM 8001K42
Laser Altimeter Alarm	Lightware Optoelectronics	SF11		1	\$250.00	\$250.00	Drone Laser Altimeter		
Voltage converter	Supernight	CA10500		1	\$16.00	\$16.00	Altimeter 12V - 5V converter	Any decent 12V - 5V converter	Amazon: <a href="https://www.amazon.ca/gp/product/B077444WQY?th=1">https://www.amazon.ca/gp/product/B077444WQY?th=1</a>
< 90 KIAS Switch (<100 KIAS for 6.0")	Designflex - World Magnetics / Multicomp Pro	PSF103 - 5" H2O (9052-902) or: PSF103-9011-902 or: PSF100A-6.0 6" H2O (will also need relay for switching from NO to NC operation)		1	\$32.66	\$32.66	NC Air Pressure Switch		Newark Electronics
> 40 KIAS Switch (>49 KIAS for 1.5")	Designflex - World Magnetics / Multicomp Pro	PSF100A-1.0 1.0" H2O or: PSF100A-1.5 1.5" H2O		1	\$32.66	\$32.66	NO Air Pressure Switch		Newark Electronics
<b>TOTAL</b>						<b>\$426.02</b>			

**OPTIONAL ELECTRIC BACKUP EXTENSION - REV. 2 (if no mechanical extend)**

Primary / Backup Extend Switch	B&C	S700-2-3		1	\$9.00	\$9.00	DPDT Toggle Switch (ON-ON)		
Backup Battery	EarthX	ETZ5G		1	\$159.00	\$159.00	3.4 Ahr Motorcycle Battery	Any 1 - 4 Ahr lightweight battery	
Charging Diode		RHRG1560-F085	2156-RHRG1560-F085-ND	1	\$1.85	\$1.85			

**OPTIONAL ELECTRIC BACKUP EXTENSION - REV. 2a (if no mechanical extend)**

Momentary Pushbutton Switch	SteinAir			1	\$16.45	\$16.45	Red button DPDT (usually TOGA)	Any SPDT or DPDT momentary pushbutton	
Backup Down Relay			PB349-ND	1	\$15.43	\$15.43	DPDT Relay - non-polarized		
Backup Battery	EarthX	ETZ5G		1	\$159.00	\$159.00	3.4 Ahr Motorcycle Battery	Any 1 - 4 Ahr lightweight battery	
Charging Diode		RHRG1560-F085	2156-RHRG1560-F085-ND	1	\$1.85	\$1.85			
Diode			1N4007GOS-ND	7	\$0.18	\$1.26	Coil protection diode		

**NOTES:**

- Will also need 2, 3 and 9 pin connectors for integrating the switch and relay panels
- The "Optional" switches are small switches which will fit in the standard 1/4" panel holes used for the Wilhelmson supplied switches in the harness. These are good for retrofits where the panel is already complete and space limited