

Marc J. Zeitlin

LG Auto Extend Circuit BOM

Revision 1

February 22, 2017

Item Name	MFG / Distributor	MFG Part Number	Digi-Key Part Number	Quantity	Price	Extension	Description	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	
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 Relay; Down Relay			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 9POS .084	
Sockets for Connector - P1			WM1271-ND	9	\$0.10	\$0.90	Sockets for Plug	bank order
Motor Connector	Molex, LLC	50842090	WM1251-ND	1	\$0.92	\$0.92	CONN RECEPTACLE 9POS .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	
LG Up / Down Switch	Carling	HM251-73		1	\$9.32	\$9.32	3PDT Toggle Switch (ON-OFF-OFF)	Allied Electronics P/N 70131553 or McMaster-Carr MCM 8001K42
ITD LED - Blue	SloanLED / Lightware	240-126		1	\$5.81	\$5.81	Blue LED - w/internal resistor	Allied Electronics P/N 70015794
Laser Altimeter Alarm	Optoelectronics Designflex - World Magnetics	SF11	PSF-103 - 5" H2O	1	\$250.00	\$250.00	Drone Laser Altimeter	
< 90KIAS Switch	World Magnetics	PSF-100A-1.0 1"		1	\$25.00	\$25.00	NC Air Pressure Switch	
> 40 KIAS Switch	World Magnetics	H2O (20816)		1	\$20.00	\$20.00	NO Air Pressure Switch	
TOTAL					\$389.70			

NOTES:

1) Will also need 2, 3 and 9 pin connectors for integrating the switch and relay panels

Digi Key 119.01
 Allied 36.86

Handwritten notes:
 any lab ordered


Handwritten initials: NA

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