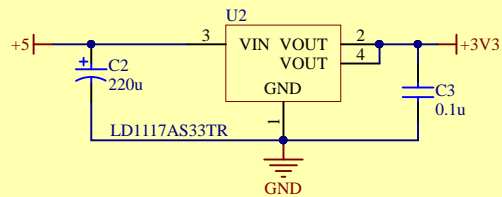
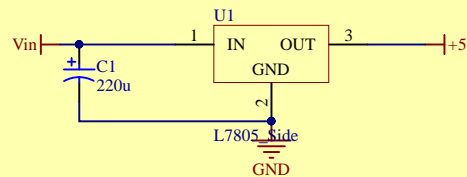
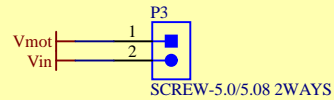
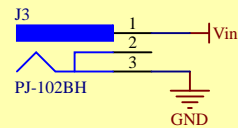
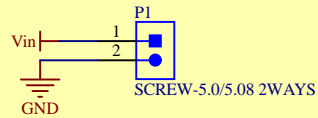
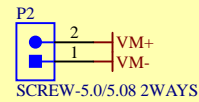
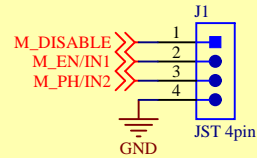


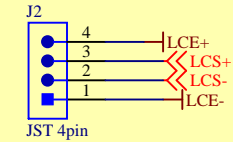
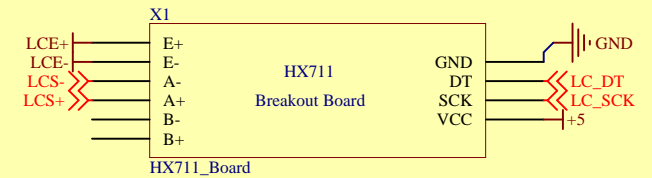
Power Supply



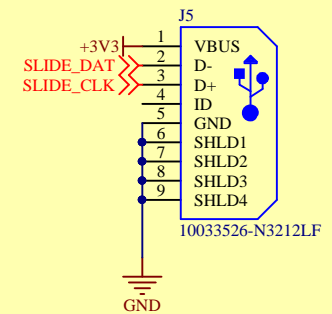
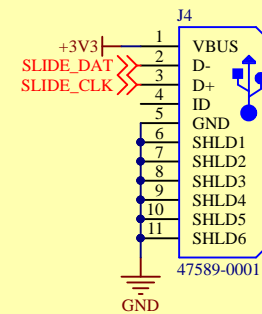
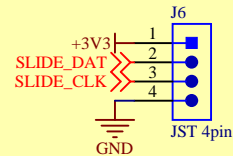
Motor Connections



Loadcell Connections



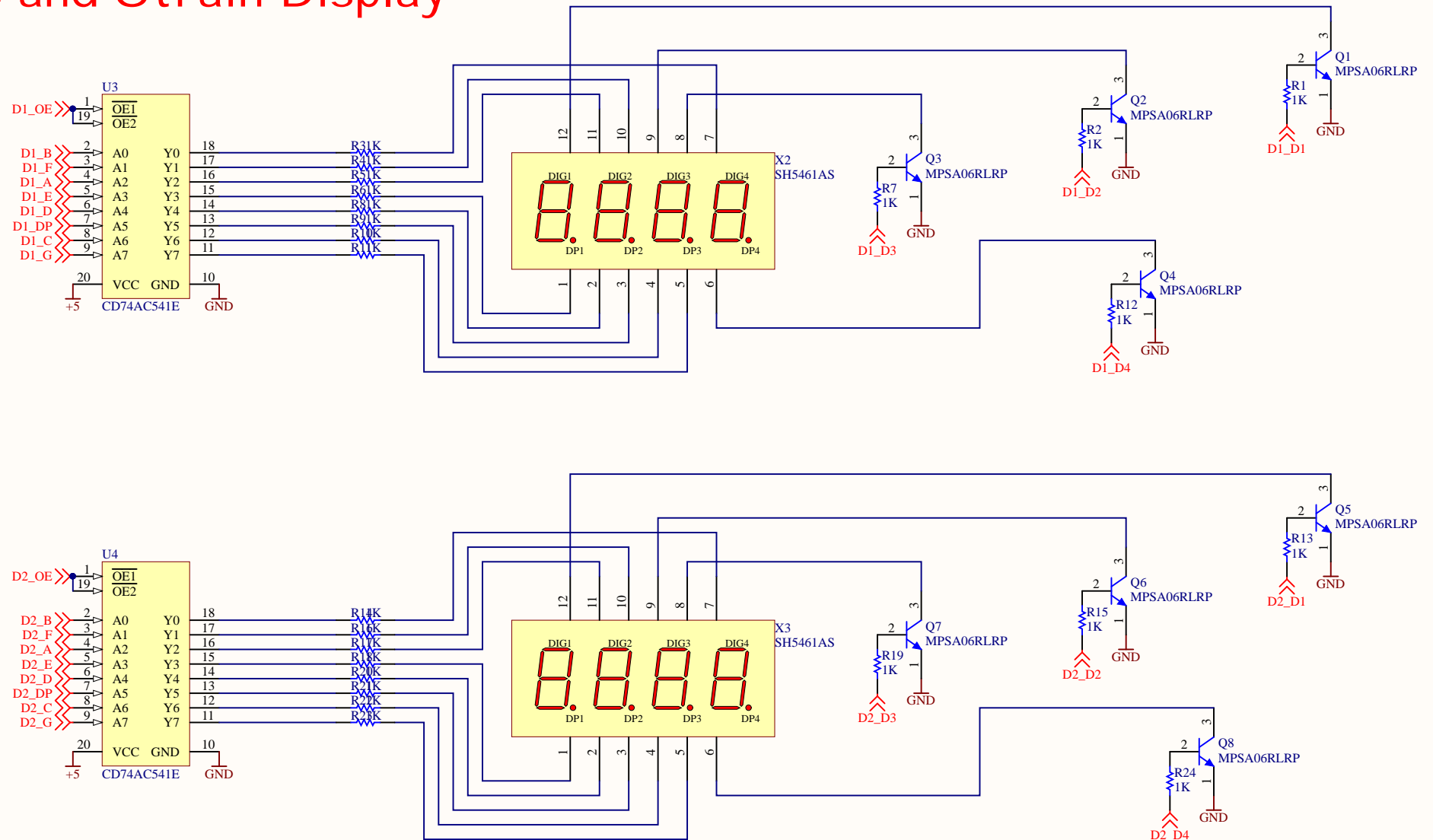
Linear Scale Connections



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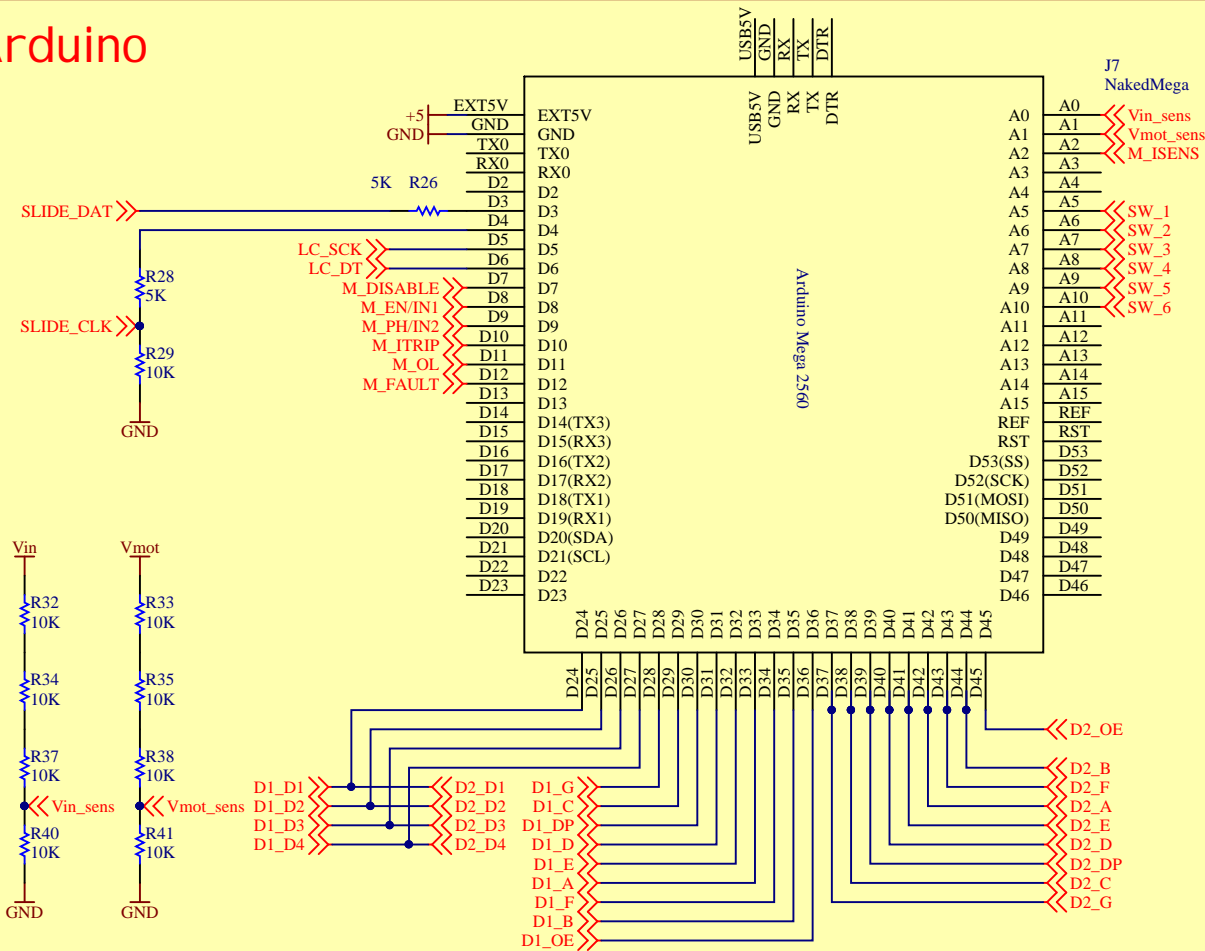
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Force and Strain Display

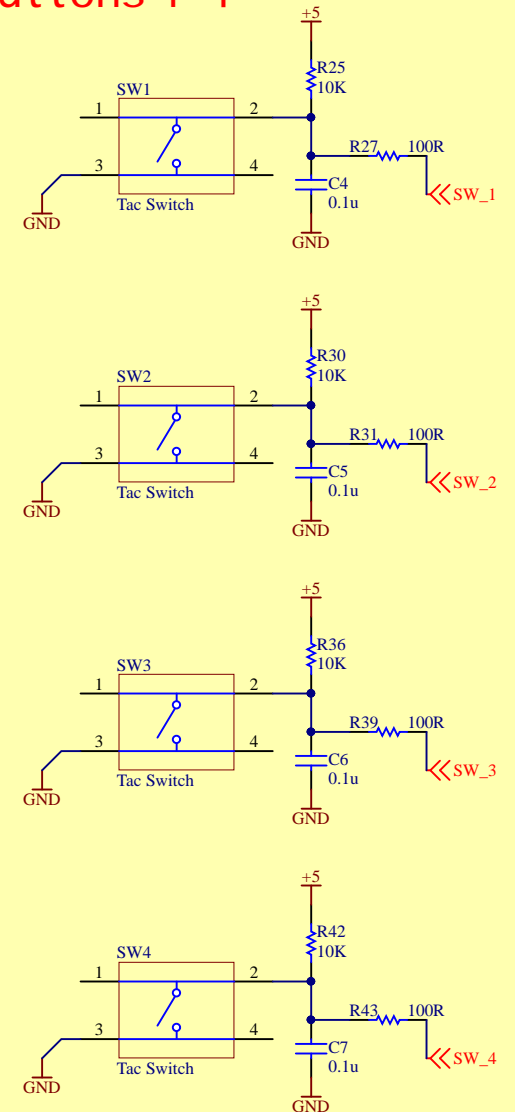


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Arduino



Buttons 1-4

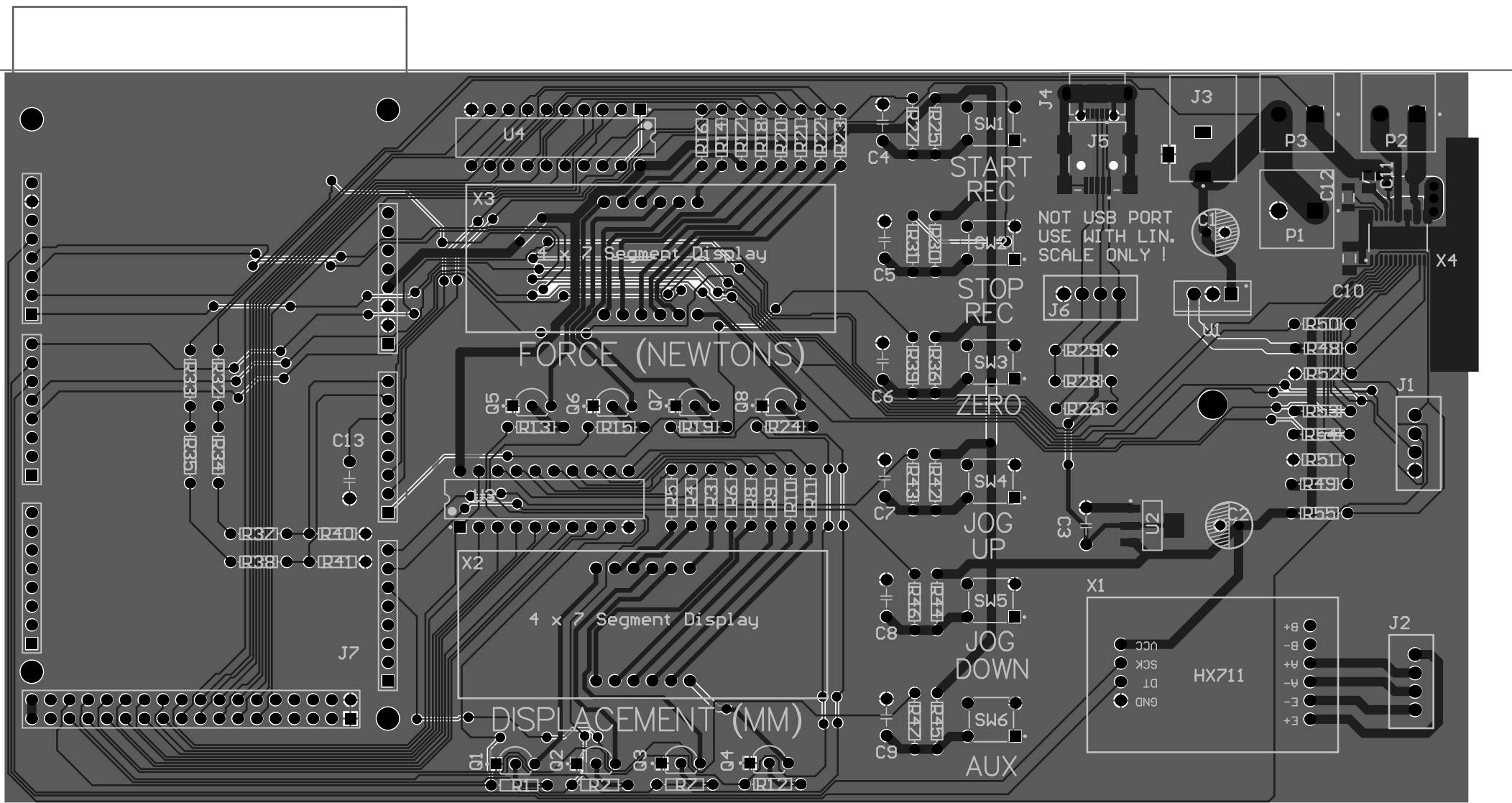


Buttons 5-6



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Bill of Materials

Bill of Materials for Project [UMTK.PrjPCB] (No PCB Document Selected)

Source Data From: UMTK.PrjPCB
 Project: UMTK.PrjPCB
 Variant: None

Creation Date: 2019-03-22 05:03
 Print Date: 22-Mar-19 5:03:32 AM

Footprint	Comment	LibRef	Designator	Description	Quantity
Alu Cap 6.3x2	220u	Polar Cap	C1, C2		2
Ceramic Cap 5	0.1u	Cap	C3, C4, C5, C6, C7, C8, C9, C13		8
CAPC1206(32	CAP 1uF 6.3V 12	CMP-1037-04669	C10	CAP 1uF 6.3V ±20% 1206 (3216 Metric) Thick Film	1
CAPC1206(32	CAP 1uF 25V 12	CMP-1037-04700	C11	CAP 1uF 25V ±10% 1206 (3216 Metric) Thick Film	1
CAPC1206(32	CAP 47nF 50V 12	CMP-1037-03986	C12	CAP 47nF 50V ±20% 1206 (3216 Metric) Thick Film	1
4Pin JST	JST 4pin	4Pin JST	J1, J2, J6		3
CUI-PJ-102BH	PJ-102BH	CMP-2000-06901	J3	Through Hole Right Angle DC Power Jack, 5 Pin	1
MOLX-47589-	47589-0001	CMP-2000-05610	J4	Right Angle Female Type AB Micro USB Connector	1
FCI-10033526	10033526-N3212	CMP-1698-00001	J5	Mini USB B-Type, 5-Pin SMD, RoHS, Tape and Reel	1
Arduino Mega	NakedMega	NakedMega	J7		1
SCREW-5.0-2	SCREW-5.0/5.08	CMP-0617-00009	P1, P2, P3	Socket, Screw Terminal Block, 2 Way, 5.0 mm Pitch	3
ONSC-TO-92-	MPSA06RLRP	CMP-1048-01505	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	80 V, 0.5 A, Amplifier Transistor, NPN Transistor	8
AXIAL-0.3-3D	Res1	Res1	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10,	Resistor	55
TacSwitch	Tac Switch	Tac Switch	SW1, SW2, SW3, SW4, SW5, SW6		6
TO220_Side M	L7805_Side	L7805_Side	U1		1
SOT-223_M	LD1117AS33TR	CMP-0244-00316	U2	1A, Low Drop Positive Voltage Regulator, 3-Lead TO-18	1
N0020A	CD74AC541E	CMP-0440-00981	U3, U4	Non-Inverting Octal Buffer/Line Drivers with 3-State Outputs	2
HX711_Board	HX711_Board	HX711_Board	X1		1
4x7Seg	SH5461AS	4x7Seg	X2, X3	4 Character 7 Segment Display, Common Cathode	2
DRV8873	DRV8873H	DRV8873	X4	DRV8873-Q1 Automotive H-Bridge Motor Driver	1
					100

Approved	Notes