

NOTES:

1. BATTERIES ARE MIGHTY MAX 12VDC 22AH LEAD ACID BATTERIES
2. RELAY K1 IS USED TO ISOLATE BATTERIES DURING CHARGING
3. RELAY K1 AUTOMATICALLY SWITCHES WHEN 120VAC IS CONNECTED TO CHARGER
4. RELAY K2 IS CONTROLLED VIA SWITCH S1. THIS ISOLATES THE DRIVE ESC ALLOWING THE REST OF THE DROID TO OPERATE.
5. DIP SWITCHES ON SABERTOOTH AND SYREN SHOW WHAT POSITION THEY NEED TO BE SET WHITE BLOCK INDICATES SWITCH, RED BLOCK IS GAP

NOTES:

- 1) ROUTING IS DIAGRAMTIC ONLY. PATHWAYS SHOW WHAT NEED TO BE CONNECTED, ORDER IS NOT SPECIFIC
- 2) GREEN LINES ARE INDIVIDUAL WIRES.
- 3) BLUE LINES ARE BUSSES (MULTIPLE WIRES SHOWN AS ONE)

ASTROMECH PADAWAN/S.H.A.D.O.W.
VADER7071 VARIANT

TITLE: 12VDC POWER

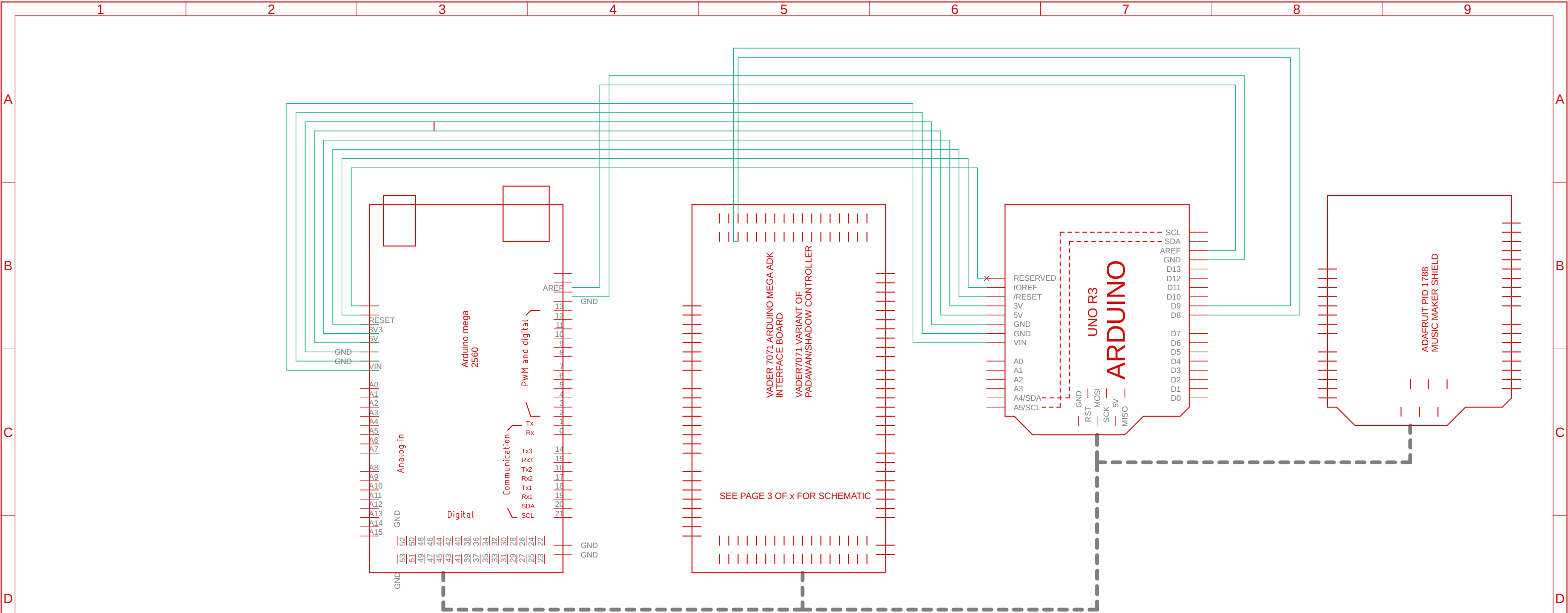
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SHEET 1 OF 7

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NOTES:

- 1. ADK INTERFACE BOARD AND ARDUINO LEONARD USE PASS THROUGH HEADERS
- 2. DOTTED LINE INDICATES ALL BOARDS ARE STACKED ON EACH OTHER.
- 3. WIRING CONNECTIONS SHOW WHAT PINS PASS FROM ONE PROCESSOR TO ANOTHER
- 4. IT IS UNDERSTOOD EACH SHIELD HAS ALL PINS CONNECTED TO RESPECTIVE PROCESSOR
- 5. TRIM OFF ANY PIN ON LEONARDO NOT CONNECTED FROM LEONARDO TO MEGA ADK

NOTES:

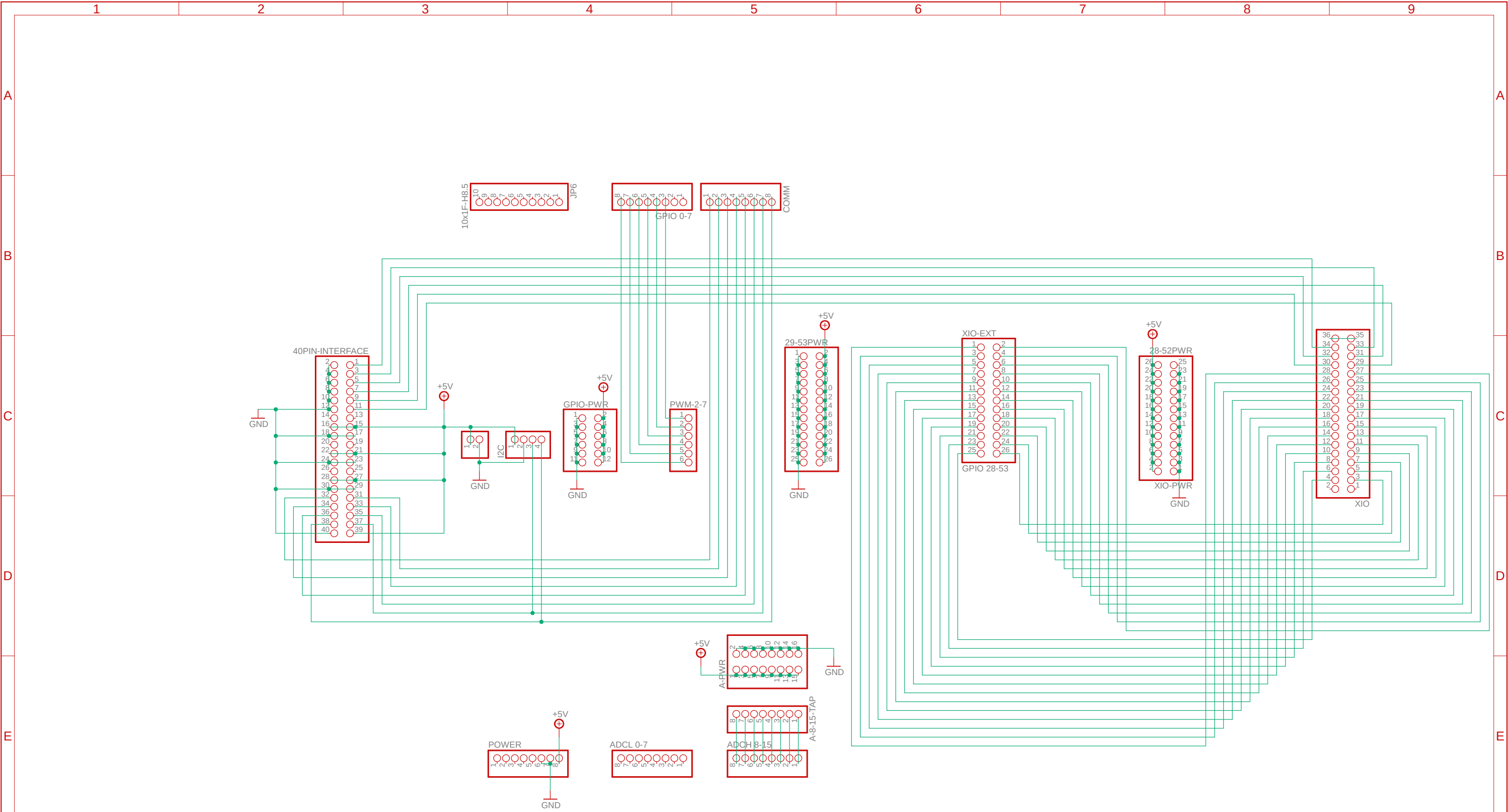
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ASTROMECH PADAWAN/S.H.A.D.O.W.
VADER7071 VARIANT

TITLE: ARDUINO SHIELD STACKING

Document Number: SHEET 2 OF 7 REV: 0

Date: not saved! Sheet: 2/7



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ASTROMECH PADAWAN/S.H.A.D.O.W.
VADER7071 VARIANT

TITLE: ADK INTERFACE BOARD

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	1	2	3	4	5	6	7	8	9	
A										
B										
C										
D										
E										
F										

PIN	ADK PIN	FUNCTION
1	GPIO 22	COIN SLOT LED 1
2	GROUND	DC NEGATIVE
3	GPIO 23	COIN SLOT LED 2
4	GROUND	DC NEGATIVE
5	GPIO 24	COIN SLOT LED 3
6	GROUND	DC NEGATIVE
7	GPIO 25	COIN SLOT LED 4
8	GROUND	DC NEGATIVE
9	GPIO 26	COIN SLOT LED 5
10	GROUND	DC NEGATIVE
11	GPIO 27	COIN SLOT LED 1
12	GROUND	DC NEGATIVE
13	GPIO 13	SERVO CONNECTION
14	GPIO 12	SERVO CONNECTION
15	DC+	DC POSITIVE
16	DC+	DC POSITIVE
17	GROUND	DC NEGATIVE
18	GROUND	DC NEGATIVE
19	GPIO 11	SERVO CONNECTION
20	GPIO 10	SERVO CONNECTION
21	DC+	DC POSITIVE
22	DC+	DC POSITIVE
23	GROUND	DC NEGATIVE
24	GROUND	DC NEGATIVE
25	GPIO 9	BOTTOM UTILITY ARM SERVO
26	GPIO 8	TOP UTILITY ARM SERVO
27	DC+	DC POSITIVE
28	DC+	DC POSITIVE
29	GROUND	DC NEGATIVE
30	GROUND	DC NEGATIVE
31	RX3	SERIAL DATA 3 RX
32	TX3	SERIAL DATA 3 TX
33	RX2	SERIAL DATA 2 RX
34	TX2	SERIAL DATA 2 TX
35	RX1	SERIAL DATA 1 RX
36	TX1	SERIAL DATA 1 TX
37	SDA	I2C SDA
38	SCL	I2C SCL
39	DC+	DC POSITIVE
40	GROUND	DC NEGATIVE

1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40

Astromech Mega ADK
Interface Board
Designed by Vader7071
See link in description for more info

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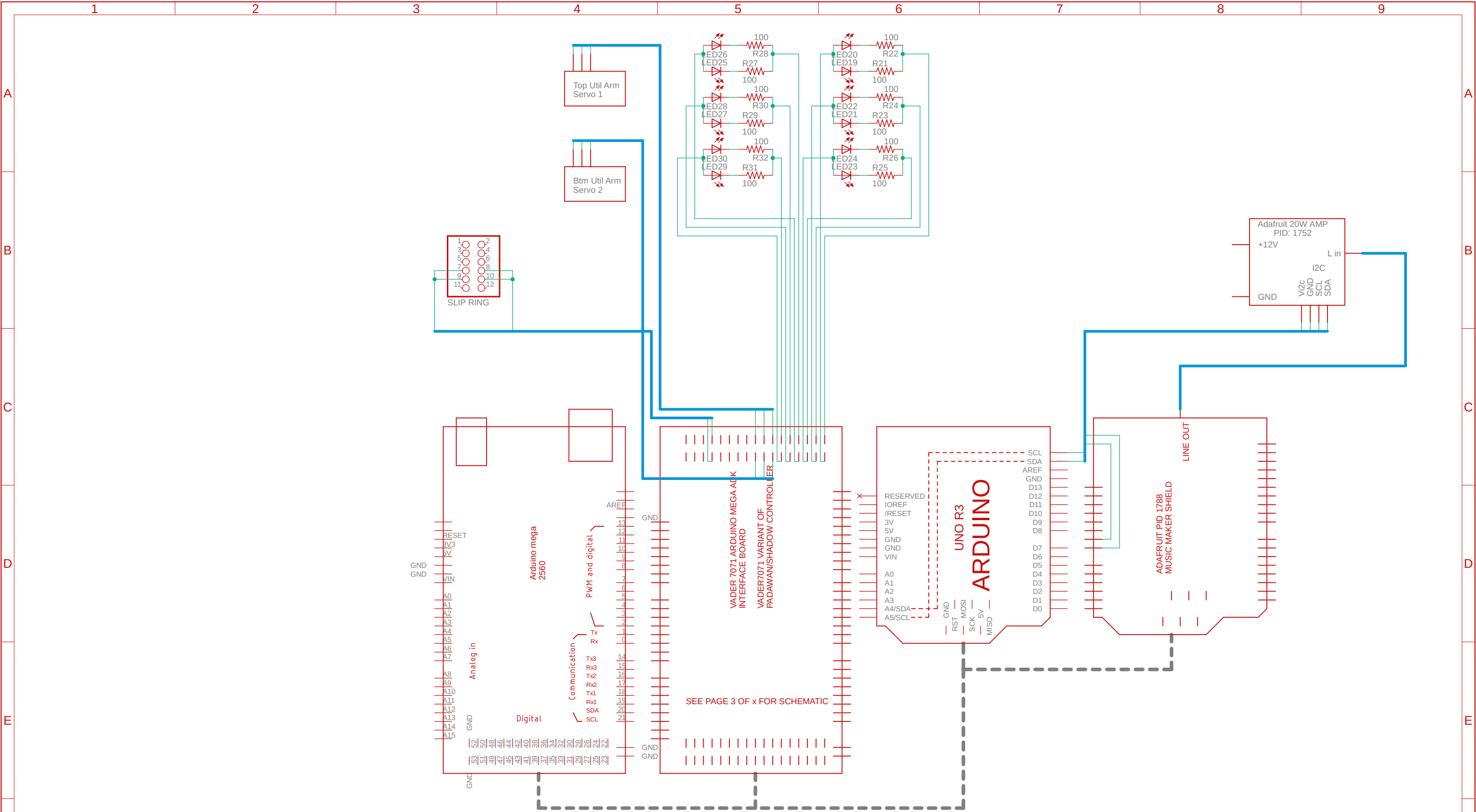
TITLE: INTERFACE BOARD PINOUTS

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REV: 0

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ASTROMECH PADAWAN/S.H.A.D.O.W.
VADER7071 VARIANT

TITLE: BODY SIGNALS & CONTROLS

Document Number: SHEET 6 OF 7 REV: 0

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