BUTTONS	TEENSY 4.1 PIN # (Inputs)	NOTES	
Puppet 1 Left Foot: Button Lead	0	The Teensy (button) inputs are utilizing a pullup-resistor setup.	
Puppet 1 Right Foot: Button Lead	1		
Puppet 1 Left Arm: Button Lead	2	Utilize Teensy's ground for the other side of each buttons' terminal.	
Puppet 1 Right Arm: Button Lead	3		
		View the circuit diagram for	
Puppet 2 Left Foot: Button Lead	4	reference.	
Puppet 2 Right Foot: Button Lead	5		
Puppet 2 Left Arm: Button Lead	9		
Puppet 2 Right Arm: Button Lead	14		
BUTTON LIGHTS	TEENSY 4.1 PIN # (Outputs)	NOTES	
Puppet 1 Left Foot: Relay Input	16	Each Teensy button light output is connected to its respective relay input. As Teensy operates with a 3.3v logic level, the relays are rated at 3v for operation.	
Puppet 1 Right Foot: Relay Input	17		
Puppet 1 Left Arm: Relay Input	22		
Puppet 1 Right Arm: Relay Input	24		
		View the circuit diagram for	
Puppet 2 Left Foot: Relay Input	25	reference.	
Puppet 2 Right Foot: Relay Input	26		
Puppet 2 Left Arm: Relay Input	27		
Puppet 2 Right Arm: Relay Input	28		
SOLENOIDS	TEENSY 4.1 PIN # (Outputs)	NOTES	
Puppet 1 Left Foot: Relay Input	29	Each Teensy solenoid output is connected to its respective	

Puppet 1 Right Foot: Relay Input	30	relay input.	
Puppet 1 Left Arm: Relay Input	31	As Teensy operates with a 3.3v logic level, the relays are rated at 3v for operation.	
Puppet 1 Right Arm: Relay Input	32		
		View the circuit diagram for	
Puppet 2 Left Foot: Relay Input	33	reference.	
Puppet 2 Right Foot: Relay Input	34		
Puppet 2 Left Arm: Relay Input	35		
Puppet 2 Right Arm: Relay Input	36		
SPOTLIGHTS	TEENSY 4.1 PIN # (Outputs)	NOTES	
SPOTLIGHTS Puppet 1 Spotlight: Relay Input		As Teensy operates with a	
	(Outputs)		
	(Outputs)	As Teensy operates with a 3.3v logic level, the relays are	

SEMNOX FUNCTION	SEMNOX PIN #	RELAY SETUP	TEENSY 4.1 PIN #	NOTES
*Player Count Pulse (Listed as COM)	J3: 2 (Brown wire)	5v Relay Semnox->DC+ Teensy->COM	3.3v	The reader, when swiped, activates the Semnox interface's relay. Thereafter, the ground is bridged to the Teensy unit (for gamestart)
*Player Count Pulse (Listed as NO)	J3: 4 (Orange wire)	5v Relay Semnox->in Teensy->NO	37	
Ticket Activation	J1: 1 (White wire)	3.3v Relay Semnox -> NO Teensy -> COM	38	*The 5v Relay setup is "Hacky," as I received too much
**Ticket Count Pulse	J1: 6 (Blue wire)	N/A	39	noise from the Semnox Unit. See the Diagram for further information.

	**Semnox must be set to 5v logic. Additionally, a 12v->5v must be utilized for the 5v->3v conversion. See the circuit diagram for signal flow
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