		Arduino Mega R3					Breadboard	1	
Pin Label SCL	Feature		Label	Red	Blue	a b c d e	f g h i j Red	Blue	1
SDA		LED Display		2 Arm 5v	<-Reistor->	Arm 5v	RGB LED RGB LED	Button LED Grn	
REF				3	Arm Pull Down	Arm Signal	RGB LED RGB LED	Button Ground	3
SND				4	Arm Switch GNE		RGB LED RGB LED	Button LED Grn	d 4
113	PWM	RGB LED	Switch One	5	Switch Ground		RGB LED RGB LED	Button Ground	5
12	PWM	RGB LED	Kob One	6	Switch Ground		RGB LED RGB LED	Button LED Grn	
011	PWM	RGB LED RGB LED	Switch Two	7	0.31.0		RGB LED	2 " 2 1	7
)10)9	PWM PWM	RGB LED	Kob Two Switch Three	8 9	Switch Ground Switch Ground		RGB LED RGB LED	Button Ground Button LED Grn	8 d 9
)8	PWM	RGB LED	Switch Four	10	Switch Ground		RGB LED RGB LED	Button Ground	10
07	PWM	RGB LED	Knob Three	11	Switch Ground		RGB LED RGB LED	Button LED Grn	
06	PWM	RGB LED	Switch Five	12	Switch Ground		RGB LED RGB LED	Button Ground	12
05	PWM	RGB LED	Switch Six	13			RGB LED		13
04	PWM	RGB LED	Switch Seven	14	Switch Ground		RGB LED RGB LED	Button LED Grn	
03	PWM	RGB LED	Switch Eight	15	Switch Ground		RGB LED RGB LED	Button Ground	15
)2)1	PWM	RGB LED	Knob Four	16	Switch Ground Switch Ground	Oimele Du	RGB LED RGB LED	Button LED Grn	
00		Cannot use. Shared with US	B Serial.	17 18	Switch Ground	Simple Bu Simple Bu		Button Ground Button LED Grn	17
D14		RGB LED No Brightness	Switch Nine	19	Switch Ground	Simple Bu		Button LLD Gill	19
D15		RGB LED No Brightness		20 Potentiometer	Potentiometer	Simple Bu		Button Ground	20
016		RGB LED No Brightness	Switch Eleven	21 Potentiometer		Simple Bu		Button LED Grn	
017		RGB LED No Brightness	Switch Twelve	22 Potentiometer		Simple Bu		Button Ground	22
018		Switch Signal	Switch One	23 Potentiometer		Simple Bu		Button LED Grn	
019		Switch Signal	Switch Two	24 Potentiometer	Potentiometer	Simple Bu		Button Ground	24
D20		Cannot use. Shared with		25 26 Potentiometer	Potentiometer	Simple Bu		Triangle Ground	25
D21 5v		Cannot use. Shared with Breadboard	SDE.	26 Potentiometer 27 Potentiometer		Simple Bu	RGB LED RGB LED	Triangle Ground Triangle Ground	
5v 5v		Breadboard		28 Potentiometer	. C.Shillofficter		RGB LED RGB LED	Big Ground	28
D22		Simple Button LED		29			RGB LED RGB LED	Big Ground	29
D23		Button Signal		30 Arduino 5V	Arduino Ground		Arduino		
D24		Simple Button LED							
D25		Button Signal							
D26		Simple Button LED							
D27		Button Signal							
D28 D29		Simple Button LED Button Signal		NOTE: LEDo	tied to non DWM n	ina CANNOT a	et brightness. (Code wi	Il ianoro attamata)	
030		Simple Button LED		NOTE: LEDS	tied to non-Pvvivi p	IIIS CANNOT S	et brightness. (Code wi	ii ignore attempts)	
031		Button Signal							
032		Simple Button LED							
D33		Button Signal							
D34		Simple Button LED							
D35		Button Signal							
D36		Simple Button LED							
D37		Button Signal							
D38		Simple Button LED							
D39 D40		Button Signal Simple Button LED							
D40 D41		Button Signal							
D42		Switch Signal	Switch Five						
D43		Switch Signal	Switch Six						
D44	PWM	RGB LED	Knob Five						
045	PWM	RGB LED	Knob Six						
046	PWM	RGB LED	Knob Seven						
047		Switch Signal	Switch Seven						
048 049		Switch Signal Switch Signal	Switch Eight Switch Nine						
D49 D50		Switch Signal	Switch Ten						
D51		Switch Signal	Switch Eleven						
052		Switch Signal	Switch Twelve						
D53		Arming Switch Signal							
GND		Breadboard							
SND		Breadboard							
A15/D69 A14/D68		Triangle Button Signal Triangle Button LED							
14/D68 13/D67		Big Button Signal							
\12/D66		Big Button LED							
\11/D65		Switch Signal	Switch Three						
A10/D64		Switch Signal	Switch Four						
N9/D63									
\8/D62									
\7/D61		Detections	и						
\6/D60		Potentiometer Potentiometer	Knob Seven						
\5/D59 \4/D58		Potentiometer	Knob Six Knob Five						
44/D56 43/D57		Potentiometer	Knob Four						
A2/D56		Potentiometer	Knob Three						
\1/D55		Potentiometer	Knob Two						
A0/D54		Potentiometer	Knob One						
/in									
GND									
GND		LED Display							
5 v 3.3v									
RESET									

						Dente	ed Resources								
	Count		Ard			Resistors			Breadb						
		Digital			5v G		Power				Side				
		Each To	al Each	Total			Each Total	al Each	Total	Each	Total	Each T	otal		
Simple Buttons	10	2 :	20			1	0	0 2	20	- 1	10	- 1	10		
Switches		1 .						0 1	12						
Potentiometers	7		0 1	7			- 1		7						
RGB LEDs		1 .		- 1					1					pit half left and half right.	
	19	1 '	19					y							
Arming Switch	- 1	- 1	1				1	1 3	3					ird ground isn't used, just cov	ered by resistor
Big Button	- 1	2	2			1	0	0 2	2	0	0 0	0	0		
Triangle Button	- 1	2	2				1	0 2	2	- 1	1 1	- 1	1		
LED Display	- 1		0		- 1	1							< Us	se direct Arduino 5v and Grou	nd
Breadboard					2	2		2	2						
					-	-			-						
Required	52		56	7	3	3	2	9	48		23		20		
Available			50	16	3	5	5	0	50		30		30		
Balance			-6	9	0	2	2	1	2		7		10		
- after converting	4 to D		3											de Total in use	
- aner convening	A ID D.		3	3									17 < Sid		