

Open Panzer TCB Mk 1 - Atmega 2560 Pin assignments

All board revisions from 0.19

				Atm Ard								Atm Ard			
		Atm	Ard			Port	Pin	Pin			Port	Pin	Pin		
Port	Pin	Pin													
A0	78	22	Servo 8			OC0A/OC1C->	B7	26	13	MotorB - 1		F0	97	A0	
A1	77	23	Servo 7			OC1B->	B6	25	12			F1	96	A1	
A2	76	24	Servo 6			OC1A->	B5	24	11	MotorB - 2 (Timer 1 OC1A)		F2	95	A2	
A3	75	25	Servo 5			OC2A->	B4	23	10	MotorA - 1 (Timer 2 OC2A)		F3	94	A3	Red LED (left)
A4	74	26	Servo 4			OC2B->	H6	18	9	IR SEND - (Timer 2 OC2B)		F4	93	A4	Green LED (right)
A5	73	27	Servo 3			OC4C->	H5	17	8	Aux Output (PWM Timer 4)		F5	92	A5	Dipswitch 2
A6	72	28	Servo 2			OC4B->	H4	16	7	Hit Notification LED (PWM Timer 4)		F6	91	A6	Dipswitch 1
A7	71	29	Servo 1			OC4A->	H3	15	6	MotorA - 2 (PWM not used - Timer 4)		F7	90	A7	
C7	60	30				OC0B->	G5	1	4	Brakelights (PWM on Timer 0)		K0	89	A8	Aux Input B (analog/digital input, pin-change interrupt, or digital output)
C6	59	31					E7	9	X	Not used - (Atmega INT 7)		K1	88	A9	Aux Input A (analog/digital input, pin-change interrupt, or digital output)
C5	58	32					E6	8	X	Mechanical Recoil Switch (Atmega INT 6)		K2	87	A10	Dipswitch 3
C4	57	33	Fight/Repair Switch			OC3C->	E5	7	3	PPM - INT 1 (Atmega INT 5, Arduino INT 1)		K3	86	A11	Dipswitch 4
C3	56	34				OC3B->	E4	6	2	IR RECEIVER - Timer 3 Arduino INT 0(Atmega INT 4)		K4	85	A12	Dipswitch 5
C2	55	35				OC3A->	E3	5	5	Light 2 (PWM on Timer 3 but disabled)		K5	84	A13	
C1	54	36					E2	4	X	Machine Gun LED		K6	83	A14	Input pushbutton switch
C0	53	37					E1	3	1	Serial 0 - TX Out - USB		K7	82	A15	Battery voltage sense
D7	50	38					E0	2	0	Serial 0 - RX In - USB					
G2	70	39													
G1	52	40					J1	64	14	Serial 3 - TX Out - Serial LCD					
G0	51	41	High Intensity Flash Trigger				J0	63	15	Serial 3 - RX In - iBus/SBus in (Sbus must be inverted)					
L7	42	42					H1	13	16	Serial 2 - TX Out - Motor driver					
L6	41	43	Recoil motor driver				H0	12	17	Serial 2 - RX In - UNUSED					
OC5C->	L5	40	44	Heng Long Smoker PWM (Timer 5)			D3	46	18	Serial 1 - TX Out - AUX Serial (Atmega INT 3)					
OC5B->	L4	39	45	Motor A PWM (Timer 5)			D2	45	19	Serial 1 - RX In - AUX Serial (Atmega INT2)					
OC5A->	L3	38	46	Motor B PWM (Timer 5)			D1	44	20	I2C - SDA - (DIY Version - Machine Gun LED) (Atmega INT1)					
	L2	37	47				D0	43	21	I2C - SCL - (DIY Version - Mech Recoil Switch) (Atmega INT0)					
	L1	36	48												
	L0	35	49												
	B3	22	50	MISO											
SPI	B2	21	51	MOSI											
	B1	20	52	SCK											
SS	B0	19	53	Light 1 (Headlights) (SS)											

NOT CONNECTED IN ARDUINO

PWM Capable

ALTERNATE PINS FOR DIY VERSION