

A1	1	GND	D+	54	B1
A2	2	0_RX1_CRX2_CS1	D-	53	B2
A3	3	1_TX1_CTX2_MISO1	39_DAT2_TX5	52	B3
A4	4	2_OUT2	38_DAT3_RX5	51	B4
A5	5	3_LRCLK2	37_CMD_SCK2	50	B5
A6	6	4_BCLK2	3V3	49	B6
A7	7	5_IN2	36_CLK_CS2	48	B7
A8	8	6_OUT1D	GND	47	B8
A9	9	7_RX2_OUT1A	35_DAT0_MOSI2	46	B9
A10	10	8_TX2_IN1	34_DAT1_MISO2	45	B10
A11	11	9_OUT1C	33_MCLK2	44	
A12	12	10_CS_MQSR	32_OUT1B	43	
A13	13	11_MOSL_CTX1	31_CTX3	42	
A14	14	12_MISO_MQSL	30_CRX3	41	
	15	VBAT	29_TX7	40	
	16	3V3	28_RX7	39	
	17	GND	27_A13_SCK1	38	
	18	PROGRAM	26_A12_MOSI1	37	
	19	ON_OFF	25_A11_RX6_SDA2	36	
A20	20	13_SCK_CRX1_LED	24_A10_TX6_SCL2	35	
A21	21	14_A0_TX3_SPDIF_OUT			
A22	22	15_A1_RX3_SPDIF_IN			
A23	23	16_A2_RX4_SCL1	VUSB	34	B21
A24	24	17_A3_TX4_SDA1	3.6V to 5.5V VIN	33	B22
A25	25	18_A4_SDA0	GND	32	B23
A26	26	19_A5_SCL0	max 250mA 3V3	31	B24
A27	27	20_A6_TX5_LRCLK1	23_A9_CRX1_MCLK1	30	B25
A28	28	21_A7_RX5_BCLK1	22_A8_CTX1	29	B26

Teensy4.0

Teensy4 digital in/outs:

OUT:
 relay_on_off =10
 PWM1 =
 PWM2(30V power) =16
 Motor LED B =9
 Motor LED G =6
 Motor LED R =5
 Beat B =4
 Beat G =3
 Beat R =2

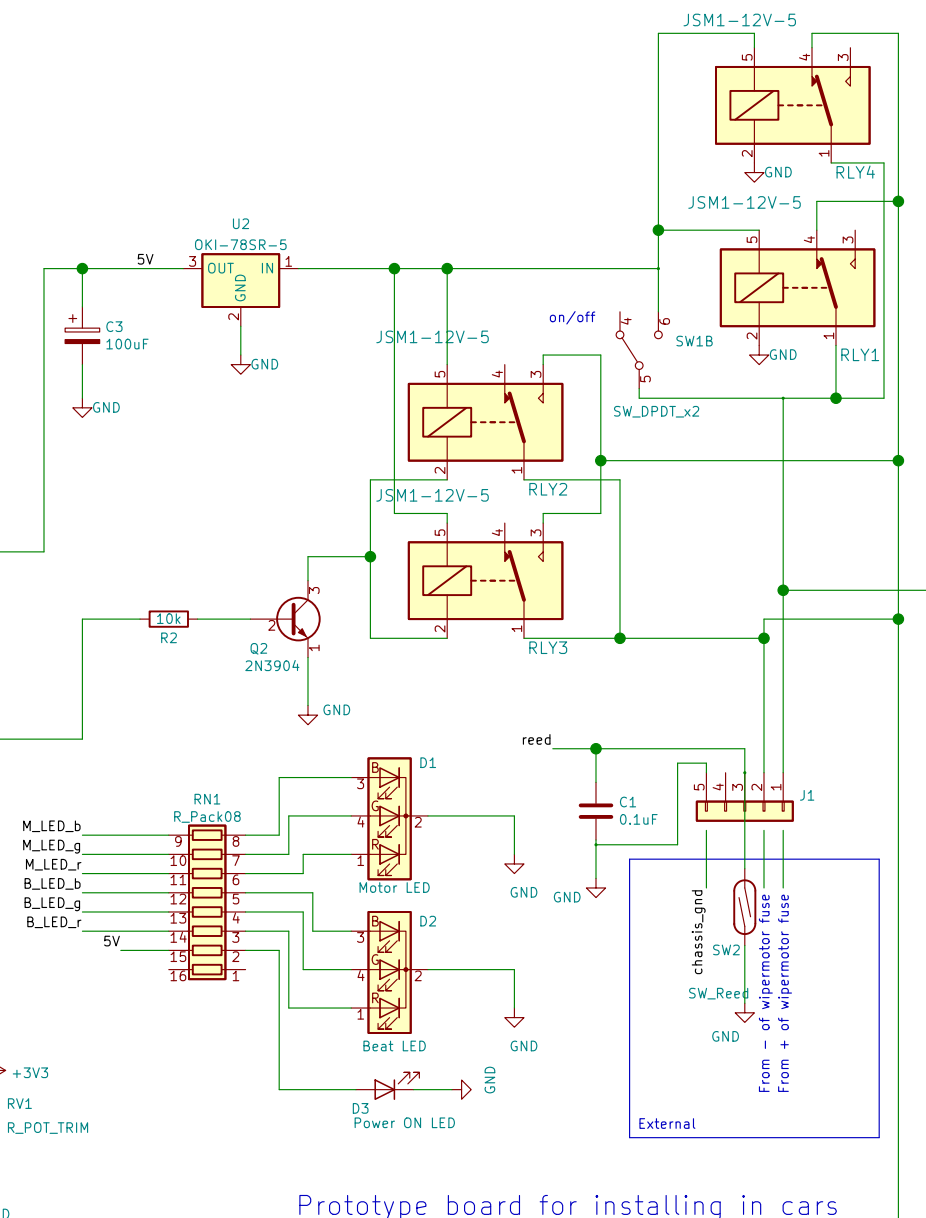
IN:
 Reed-switch =14
 PotentMeter =17

For I2S programing Xbee BLE:
<https://www.tinyosshop.com/audiob-i2s-bluetooth-digital-audio-receiver-module>
https://www.tinyosshop.com/index.php?route=information/news&news_id=42
 7 - GND
 8 - BCK I2S synchronous data clock, It's a 2.304MHz square wave signal.
 9 - SD I2S synchronous data output.
 10 - LRCK I2S word select, 48KHz. 1 - Left channel data, 0 - Right channel data.
 Setting switch: We set to I2S in normal state. Set to SPI when you need programming the module
 11 - Vin 3.3V.

Prepare for P-Channel MOSFET version 2

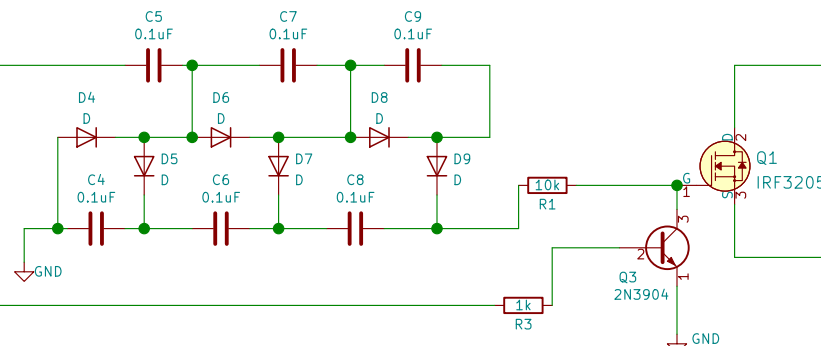
A1	1	GND	D+	54	B1
A2	2	0_RX1_CRX2_CS1	D-	53	B2
A3	3	1_TX1_CTX2_MISO1	39_DAT2_TX5	52	B3
A4	4	2_OUT2	38_DAT3_RX5	51	B4
A5	5	3_LRCLK2	37_CMD_SCK2	50	B5
A6	6	4_BCLK2	3V3	49	B6
A7	7	5_IN2	36_CLK_CS2	48	B7
A8	8	6_OUT1D	GND	47	B8
A9	9	7_RX2_OUT1A	35_DAT0_MOSI2	46	B9
A10	10	8_TX2_IN1	34_DAT1_MISO2	45	B10
A11	11	9_OUT1C	33_MCLK2	44	
A12	12	10_CS_MQSR	32_OUT1B	43	
A13	13	11_MOSL_CTX1	31_CTX3	42	
A14	14	12_MISO_MQSL	30_CRX3	41	
	15	VBAT	29_TX7	40	
	16	3V3	28_RX7	39	
	17	GND	27_A13_SCK1	38	
	18	PROGRAM	26_A12_MOSI1	37	
	19	ON_OFF	25_A11_RX6_SDA2	36	
A20	20	13_SCK_CRX1_LED	24_A10_TX6_SCL2	35	
A21	21	14_A0_TX3_SPDIF_OUT			
A22	22	15_A1_RX3_SPDIF_IN			
A23	23	16_A2_RX4_SCL1	VUSB	34	B21
A24	24	17_A3_TX4_SDA1	3.6V to 5.5V VIN	33	B22
A25	25	18_A4_SDA0	GND	32	B23
A26	26	19_A5_SCL0	max 250mA 3V3	31	B24
A27	27	20_A6_TX5_LRCLK1	23_A9_CRX1_MCLK1	30	B25
A28	28	21_A7_RX5_BCLK1	22_A8_CTX1	29	B26

Teensy4.0



Prototype board for installing in cars

Notes:



Sheet: /
 File: Hyperwiper 2020 production prototype.kicad_sch

Title: Prototype board

Size: A3 Date: 2021-08-25

Rev: V2.5.1

KiCad E.D.A. kicad 5.99.0-unknown-ba2e6119-131-ubuntu20.04.1

Id: 1/1