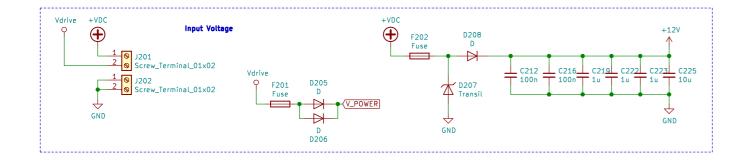
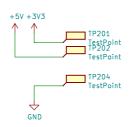
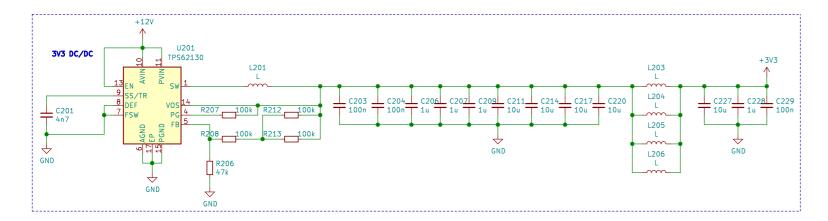
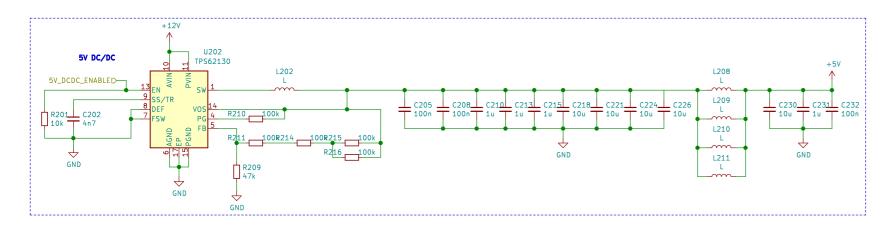
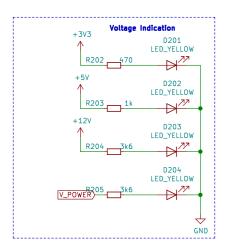
Sheet: CruiseControl	Sheet: MCU		Sheet: Peripherals
PowerOn_CRUISE_CONTROL< PWM_EN_ENGINE<	POWER_ON_CRUISE_CONTROL PWM_CRUISE_CTRL	USART1_TX < USART1_RX <	DRX_GPS DTX_GPS
IN1_ENGINE <	>IN1_CNTRL_ENGINE	POWER_ON_GPSC	>PowerOn_GPS
IN2_ENGINE C	DIN2_CNTRL_ENGINE	BUZZER	DBUZZER
EN_ELECTRO_CLUTCH<	>EN_ELECTRO_CLUTCH >ENCODER_1_BUTTON	USB_HS_PC	DUSB_DP
ENC1_BUTTON<	>ENCODER_1_BUTTON >ENCODER_1_B	USB_HS_N <	USB_DN
ENC1_CH_BC	ENCODER_1_A		
ENC2_BUTTON<	>ENCODER_2_BUTTON	NRST	RESET_BUTTON
ENC2_CH_AC	ENCODER_2_B	POWER_ON_LCD <	PowerOn_LCD
ENC2_CH_B C	ENCODER_2_A		——————————————————————————————————————
		PWM_LCD_BACKLIGHT C	PWM_BACKLIGHT_LCD
ile: CruiseControl.sch		USART6_TX_NODE<	DRX_NODEMCU
		USART6_RX_NODE <	TX_NODEMCU
		POWER_ON_NODEMCU <	PowerOn_NODEMCU
Sheet: Measurements			
ADC_LM35_1_N <	DADC_21	USB_OTG_FS_P < USB_OTG_FS_N <	DUSB_BTLD_DP DUSB_BTLD_DN
ADC_LM35_1_P <	DADC_22	USB_OTG_FS_ID <	DUSB_BTLD_ID
ADC_LM35_2_P<	>ADC_20		
ADC_LM35_2_N<	ADC_19 ADC_18		
ADC_LM35_3_N <	>ADC_16 >ADC_17		File: Peripherals.sch
ADC_LM35_4_P <	DADC_2		
ADC_LM35_4_NC	ADC_1		
ADC_LM35_5_P <	DADC_0 DADC_23		Sheet: PowerSupply
		DC_5V_ENABLE <	D5V_DCDC_ENABLE
ADC_RESISTANCE_SENS_1 <	ADC_7 >ADC_6	ADC_12 C	DADC_BOARD_TEMP_1
	DADC_5	ADC_12 C	ADC_BOARD_TEMP_2
ADC_POTENTIOMETER_1 <	>ADC_5 >ADC_4	ADC_14C	DADC_BOARD_TEMP_3
ADC_ACC_POSITION <	DADC_11	ADC_9<	DADC_3V3
ADC_FUEL_LEVEL	>ADC_11 >ADC_10	ADC_8C	ADC_5V
OIL_PRESSURE_BINARY C	OIL_PRESSURE_BIN	ADC_3<	DADC_VIN
ALTERNATOR_CHARGING	ALTERNATOR_SIGNAL		File Deve Carely and
ADC_MAIN_BATTERY ADC_AUX_BATTERY	DADC_16 DADC_15		File: PowerSupply.sch
ADO_NO/_DATTER! C	5,500_13		
KEY_IGNITION <	DKEY_IGNITION		
KEY_CRANKING C	KEY_CRANKING		Sheet: Memory
BRAKE_PEDALC	>BRAKE_PEDAL	12C3_SDA<	DEEPROM_SDA
CLUTCH_PEDAL C	CLUTCH_PEDAL	I2C3_SCLC EEPROM_WP1 C	DEEPROM_SCL DEEPROM_WP1
RPMC	RPM_SIGNAL	EEPROM_WP2<	DEEPROM_WP2
SPEED C-	SPEED_SIGNAL	POWER_ON_MICROSD <	DPowerOn_MICROSD
IN_BIN_1	OIN_BINARY_1	SDIO_DO<	DSDIO_DATA0
IN_BIN_2	IN_BINARY_2	SDIO_D1 <	SDIO_DATA1
IN_BIN_3	IN_BINARY_3 IN_BINARY_4	SDIO_D2 SDIO_D3	——————————————————————————————————————
IN_BIN_5	DIN_BINARY_5	SDIO_D3C	SDIO_CMD
IN_BIN_6 <	IN_BINARY_6	SDIO_CLK<	>SDIO_CLK
IN_BIN_7	IN_BINARY_7	MICROSD_DETECT C	MICROSD_DETECT
IN_BIN_8 C	IN_BINARY_8	I2C1_SDA<	FRAM_SDA
le: Measurements.sch			DFRAM_SCL DFRAM_WP
		FRAM_WF1	P RAII_WF
heet: Controls			
PWM_MOS_P_ON_1 C	PWM_TIM8_4		File: Memory.sch
MOS_P_ON_2<	>MOS_P_ON_2		
MOS_P_ON_3 <	>MOS_P_ON_3		
	M0S_P_0N_4		Sheet: AdditionalSignals
PWM_MOS_N_ON_1 <	PWM_TIM4_3 PWM_TIM4_4	IN_BIN_9 <	DIN_BIN_9
PWM_MOS_N_ON_3<	DPWM_TIM4_2	IN_BIN_10	IN_BIN_10
PWM_MOS_N_ON_4C	PWM_TIM4_1	IN_BIN_11	→ IN_BIN_11 → IN_BIN_12
PWM_MOS_N_ON_5 <	PWM_TIM5_2 PWM_TIM5_1	IN_BIN_13<	IN_BIN_13
PWM_MOS_N_ON_7<	>PWM_IIM5_1 >PWM_TIM5_3	IN_BIN_14C	DIN_BIN_14
PWM_MOS_N_ON_8<	>PWM_TIM12_1	IN_BIN_15	>IN_BIN_15 >IN_BIN_16
PWM_MOS_N_ON_9	PWM_TIM12_2	IN_BIN_17<	→ N_BIN_17
RELAY_ON_1	RELAY_ON_1		
RELAY_ON_2C	PRELAY_ON_2		
RELAY_ON_3 C RELAY_ON_4 C	PRELAY_ON_3		
WIPERS_SIG2_ON <	WIPERS_SIG2_ON WIPERS_SIG3_ON		File: AdditionalSignals.sch
WIPERS_SIGS_UNC	>WIPERS_SIGS_ON	PWM_TIM8_1 <	rice. Additional Signals, Sch
IN_WIPERS_ON <	>IN_WIPERS_ON	PWM_TIM8_2C	
IN_WIPERS_SLOW C	IN_WIPERS_SLOW	MOS_P_ON_8	
IN_WIPERS_FAST <	IN_WIPERS_FAST File: MCU.sch	PWM_TIM5_4 d	
PWM_MOS_P_ON_5C	The Project		
MOS_P_ON_6 <			
PWM_MOS_P_ON_8 <			
			Wojciech Grzeliński
le: Controls.scn			
le: Controls.scn			Sheet: /
ie: Controls.scn			File: BodyComputer_v2.sch
ile: Controls.sch			File: Body Computer_v2.sch Title: Body Computer V2.0
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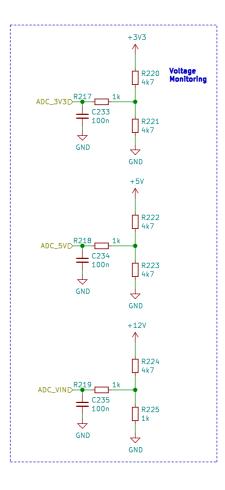


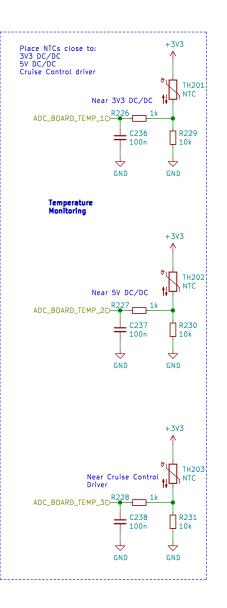










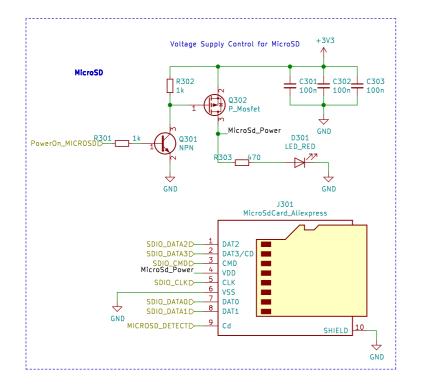


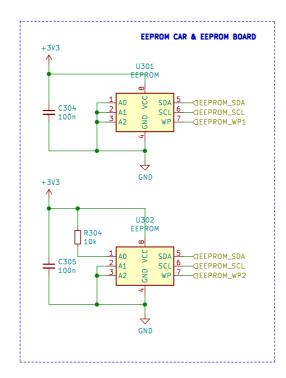
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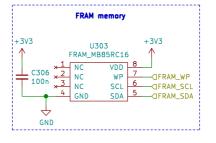
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 Date: 2021-02-18

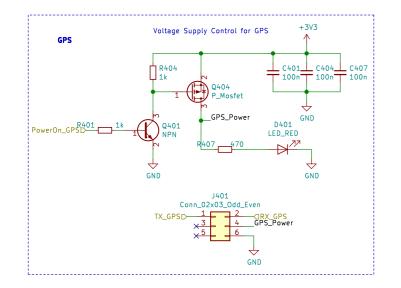
 KiCad E.D.A. kicad (5.1.5)-3
 Rev: V2.0

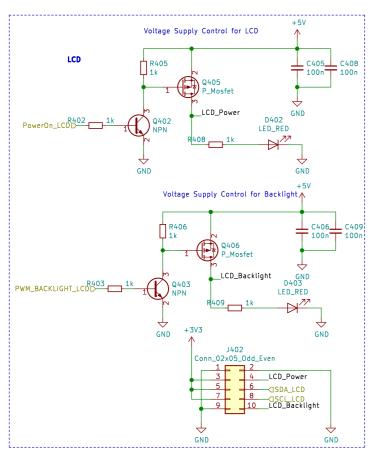


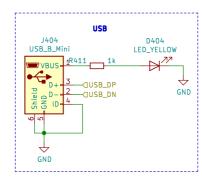


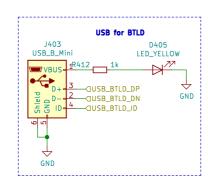


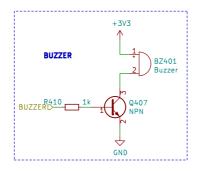
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Sheet: /Memory/ File: Memory.sch					
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Size: A3 KiCad E.D.A. kid	Date: 2021-02-18 ad (5.1.5)-3		Rev: V2.0 Id: 3/9		

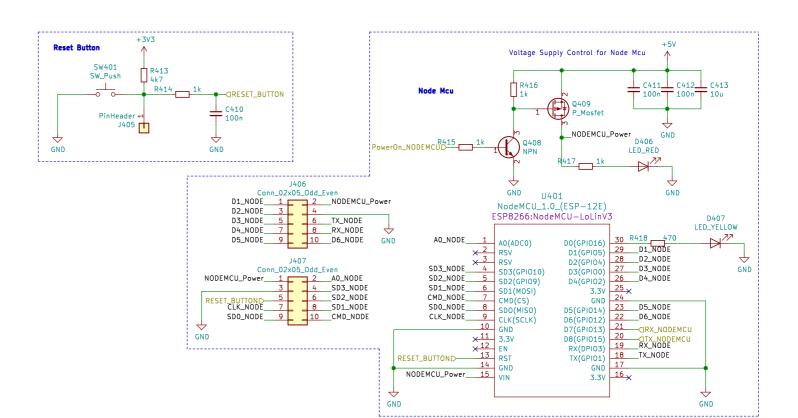












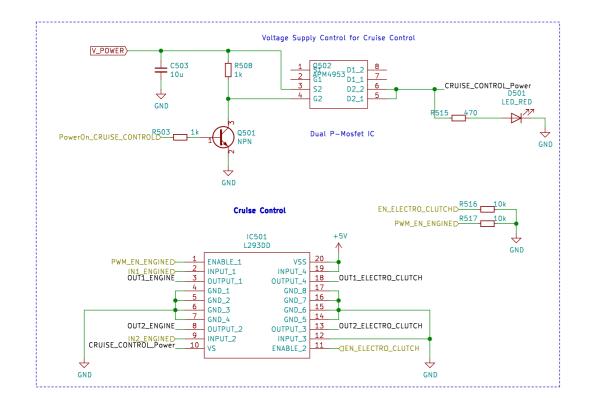
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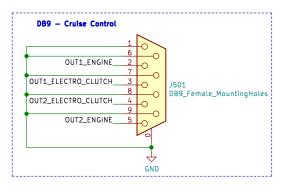
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File: Peripherals.sch

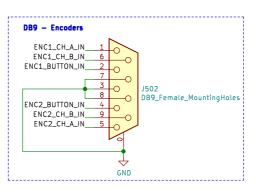
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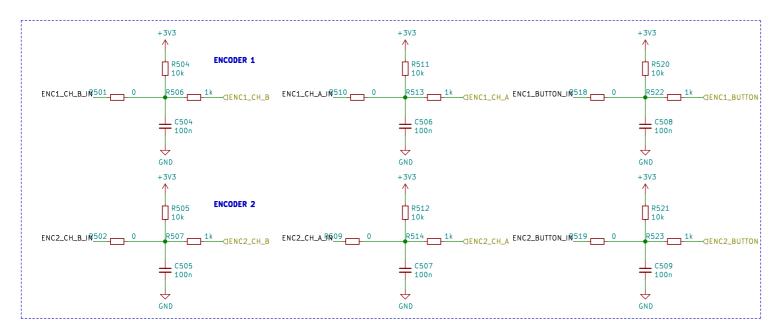
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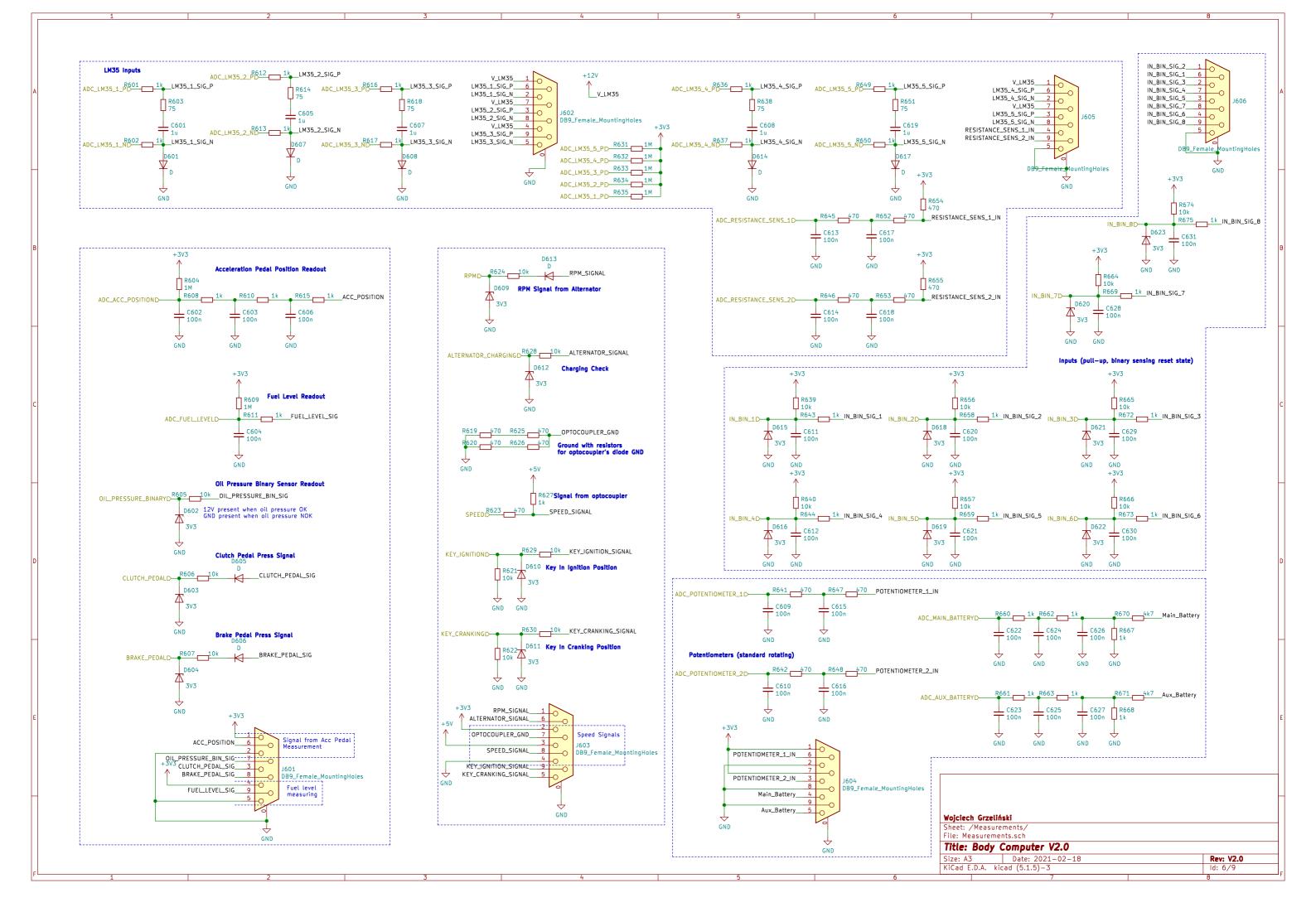
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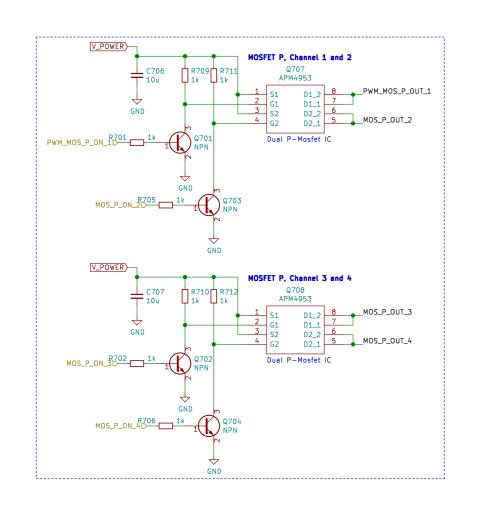
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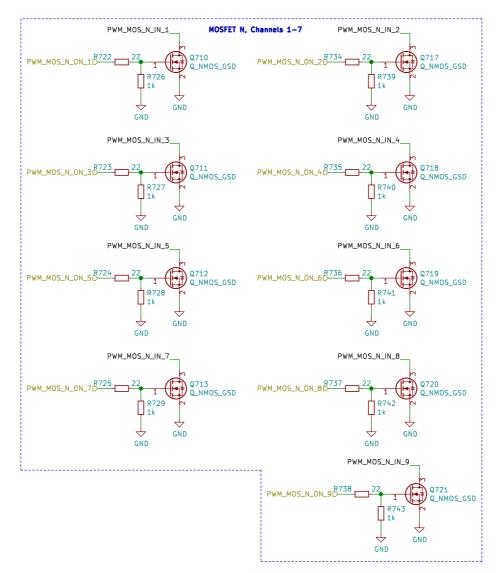
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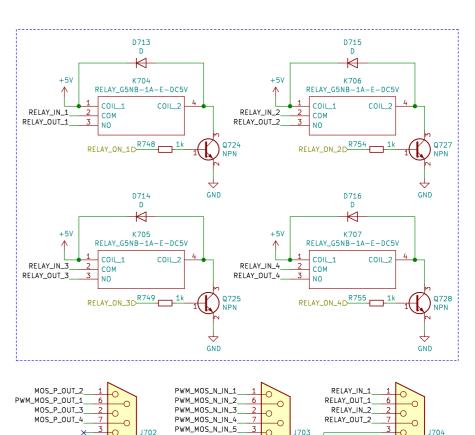
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 Id: 5/9







V_POWER>



PWM MOS N IN 6

PWM_MOS_N_IN_9

DB9_Female_Mount

PWM_MOS_N_IN_7

PWM MOS N IN 8

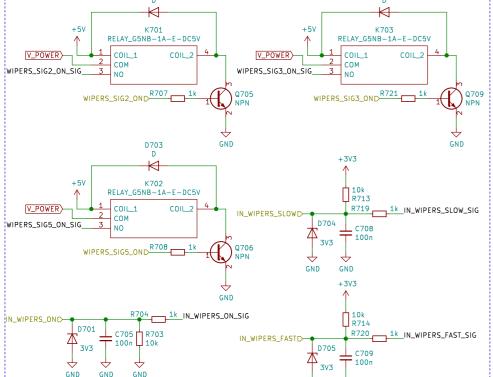
RELAY_OUT_3 8

RELAY_OUT_4 9

RELAY_IN_3 4

RELAY_IN_4 5

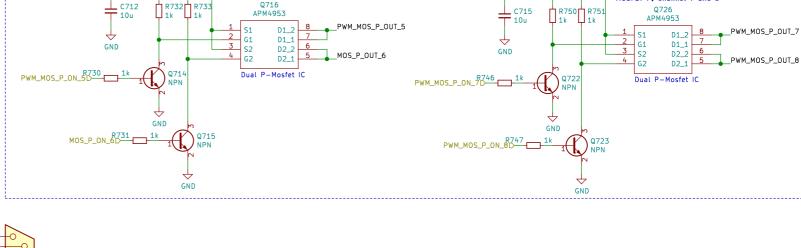
DB9_Female_MountingHoles



GND

GND

D702



MOSFET P, Channel 5 and 6

PWM_MOS_P_OUT_5 8

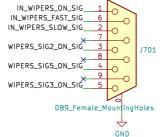
PWM_MOS_P_OUT_8

PWM_MOS_P_OUT_7_

MOS_P_OUT_6___4

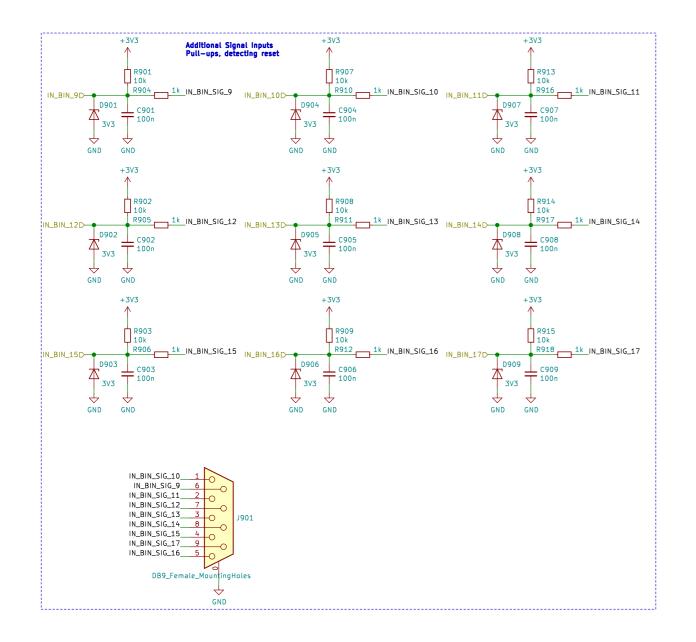
DB9 Female Mounti

V_POWER>



Wojciech Grzeliński Sheet: /Controls/ File: Controls.sch Title: Body Computer V2.0 Size: A3 Date: 2021-02-18 KiCad E.D.A. kicad (5.1.5)-3 Rev: V2.0

MOSFET P, Channel 7 and 8



Wojciech GrzelińskiSheet: /AdditionalSignals/
File: AdditionalSignals.sch

 Title: Body Computer V2.0

 Size: A3
 Date: 2021-02-18

 KiCad E.D.A. kicad (5.1.5)-3

