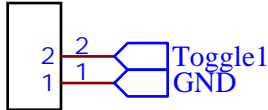
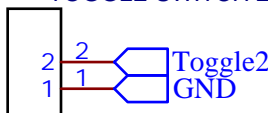


Toggle Switches

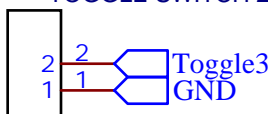
S1
TOGGLE SWITCH 2 POSITIONS



S2
TOGGLE SWITCH 2 POSITIONS



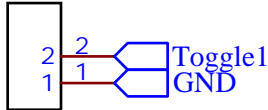
S3
TOGGLE SWITCH 2 POSITIONS



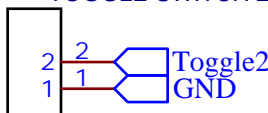
Used to turn audio effects ON/OFF

Toggle Switches

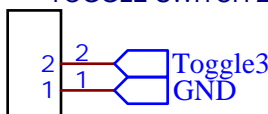
S1
TOGGLE SWITCH 2 POSITIONS



S2
TOGGLE SWITCH 2 POSITIONS



S3
TOGGLE SWITCH 2 POSITIONS



Used to turn audio effects ON/OFF

[illegible][illegible]

Indicator LEDs

LED1Pos

D1 LED

R1 220

GND

LED2Pos

D2 LED

R2 220

GND

LED3Pos

D3 LED

R3 220

GND

Indicate if an audio effect is on.

Indicator LEDs

LED1Pos

D1 LED

R1 220

GND

LED2Pos

D2 LED

R2 220

GND

LED3Pos

D3 LED

R3 220

GND

Indicate if an audio effect is on.

The diagram illustrates the connection of three KY-040 rotary encoders (labeled U1, U2, and U3) to an Arduino Uno. Each encoder has five pins: CLK, DT, SW, Vcc, and GND. The connections are as follows:

- U1 (KY-040):** CLK is connected to EncoderClk1, DT to EncoderDT1, SW to EncoderSW1, Vcc to 3.3V, and GND to GND.
- U2 (KY-040):** CLK is connected to EncoderClk2, DT to EncoderDT2, SW to EncoderSW2, Vcc to 3.3V, and GND to GND.
- U3 (KY-040):** CLK is connected to EncoderClk3, DT to EncoderDT3, SW to EncoderSW3, Vcc to 3.3V, and GND to GND.

The diagram illustrates the connection of three KY-040 rotary encoders (labeled U1, U2, and U3) to an Arduino Uno. Each encoder has five pins: CLK, DT, SW, Vcc, and GND. The connections are as follows:

- U1 (KY-040):** CLK is connected to EncoderClk1, DT to EncoderDT1, SW to EncoderSW1, Vcc to 3.3V, and GND to GND.
- U2 (KY-040):** CLK is connected to EncoderClk2, DT to EncoderDT2, SW to EncoderSW2, Vcc to 3.3V, and GND to GND.
- U3 (KY-040):** CLK is connected to EncoderClk3, DT to EncoderDT3, SW to EncoderSW3, Vcc to 3.3V, and GND to GND.

Teensy 4.1 T2 TEENSY_41_AUDIO_SHIELD_ONLY

Pin 1: GND

Pin 2: D0/RX1

Pin 3: D1/TX1

Pin 4: D2

Pin 5: D3

Pin 6: D4

Pin 7: D5

Pin 8: D6

Pin 9: DIN

Pin 10: DOUT

Pin 11: D7/RX2

Pin 12: D8/TX2

Pin 13: D10/CS

Pin 14: D11/MOSI

Pin 15: D12/MISO

Pin 16: GND

Pin 17: VOL

Pin 18: 3.3V

Pin 48: Vin (3.6 to 5.5 volts)

Pin 49: GND

Pin 50: 3.3V(250mA max)

Pin 51: D23/A9

Pin 52: D22/A8

Pin 53: D21/A7/RX5

Pin 54: D20/A6/TX5

Pin 55: D19/A5/SCL

Pin 56: D18/A4/SDA

Pin 57: D17/A3/TX4/SDA1

Pin 58: D16/A2/RX4/SCL1

Pin 59: D15/A1/RX3

Pin 60: D14/A0/TX3

Pin 61: D13/SCK/LED

Pin 62: GND

Pin 63: MIC

Pin 64: R_OUT

Pin 65: GND

Pin 66: L_OUT

U5 3.5MM TRRS

Pin 1: SLEEVE (Mic)

Pin 2: RING2 (Gnd)

Pin 3: RING1 (R)

Pin 4: TIP (L)

Pin 1: L_IN

Pin 2: R_IN

Pin 3: L_OUT

Pin 4: R_OUT

Contains CODEC allowing DAC & ADC conversions. Audio goes in and back out through this system

Teensy 4.1 T2 TEENSY_41_AUDIO_SHIELD_ONLY

Pin 1: GND

Pin 2: D0/RX1

Pin 3: D1/TX1

Pin 4: D2

Pin 5: D3

Pin 6: D4

Pin 7: D5

Pin 8: D6

Pin 9: DIN

Pin 10: DOUT

Pin 11: D7/RX2

Pin 12: D8/TX2

Pin 13: D10/CS

Pin 14: D11/MOSI

Pin 15: D12/MISO

Pin 16: GND

Pin 17: VOL

Pin 18: 3.3V

Pin 48: Vin (3.6 to 5.5 volts)

Pin 49: GND

Pin 50: 3.3V(250mA max)

Pin 51: D23/A9

Pin 52: D22/A8

Pin 53: D21/A7/RX5

Pin 54: D20/A6/TX5

Pin 55: D19/A5/SCL

Pin 56: D18/A4/SDA

Pin 57: D17/A3/TX4/SDA1

Pin 58: D16/A2/RX4/SCL1

Pin 59: D15/A1/RX3

Pin 60: D14/A0/TX3

Pin 61: D13/SCK/LED

Pin 62: GND

Pin 63: MIC

Pin 64: R_OUT

Pin 65: GND

Pin 66: L_OUT

U5 3.5MM TRRS

Pin 1: SLEEVE (Mic)

Pin 2: RING2 (Gnd)

Pin 3: RING1 (R)

Pin 4: TIP (L)

Pin 1: L_IN

Pin 2: R_IN

Pin 3: L_OUT

Pin 4: R_OUT

Contains CODEC allowing DAC & ADC conversions. Audio goes in and back out through this system

TITLE: Audio Effect Processor		REV: 1.1
	Company: Circuit Syndicate	Sheet: 1/1
	Date: 2025-11-12 Drawn By: Antonio Hernandez Olivares	