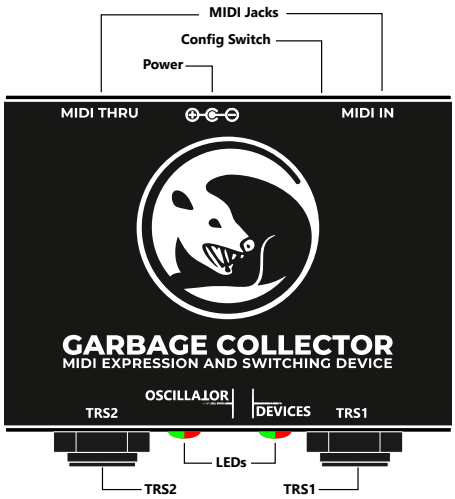
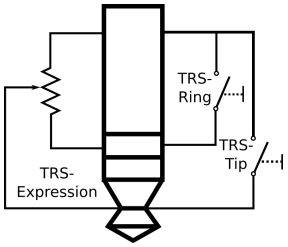
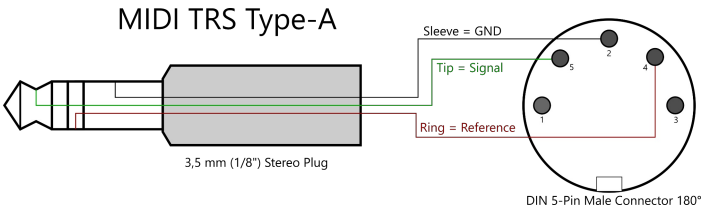
GARBAGE COLLECTOR

Quick Reference



- **TRS:** 1/4 '' stereo jack sockets. When used as switch, the *tip* and *ring* are open and close individually to the *sleeve*. As an expression out, the wiper is on the *tip* and connected to the *sleeve* and *ring* via the potentiometer.
- **Power:** Power supply 9-18V. 2.1mm barrel connector, center negative (Boss-Style).
- **Config Switch**: If the switch is pressed shortly while the device is switched on, *tip*, *ring* and *tip+ring* are closed in sequence. If the switch is held, the expression function is activated and it is slowly moved from heel to toe and back again.
- **MIDI In/Thru**: 1/8“ stereo jack sockets according to MIDI standard for MIDI TRS (**MIDI TRS-Type A**).





Please disconnect all devices from the power supply, before making any connections.

Caution: In the delivery state, under no circumstances should there be more than +5V or negative voltages be applied to the TRS sockets. Refer to the user manual for support of more than +5V and negative voltages.

MIDI Commands (Expression)

The following commands apply to the use of TRS1/2 as expression out. The change from switch to expression and back is done automatically. The expression out has 256 steps. Command 16/17 or 36/37 distributes the entire range over 128 steps. The high-resolution commands 18/38 and 19/39 can be used to set a precise value.

CC			Function
TRS1 (EXP1)	TRS2 (EXP2)	#	
16	36	0-127	Expression out from heel (0) to toe (127)
17	37	0-127	Expression out from toe (0) to heel (127)
18	38	0-127	Expression out from heel (0) to middle position (127)
19	39	0-127	Expression out from middle position (0) to toe (127)

MIDI Commands (Switch)

CC					Function					
TRS1-Tip	TRS1-Ring	TRS2-Tip	TRS2-Ring	#	Basic functions and NO	#	NC	#	Toggle
10	20	30	40	00	**Set „Open“**				
				01	**Set „Closed“**				
				02	Single Pulse NO				
				03	Single Pulse NC				
				04	Toggle (Open → Close/Close -> Open)				
				10	Pulse NO MIDI clock 1/4	30	Pulse NC MIDI clock 1/4	50	Toggle MIDI clock 1/4
				11	Pulse NO MIDI clock 1/8	31	Pulse NC MIDI clock 1/8	51	Toggle MIDI clock 1/8
				12	Pulse NO MIDI clock triplets	32	Pulse NC MIDI clock triplets	52	Toggle MIDI clock triplets
				13	Pulse NO MIDI clock 1/16	33	Pulse NC MIDI clock 1/16	53	Toggle MIDI clock 1/16
				14	Pulse NO MIDI clock dotted 1/8	34	Pulse NC MIDI clock dotted 1/8	54	Toggle MIDI clock dotted 1/8
				15	Pulse NO MIDI clock 1/32	35	Pulse NC MIDI clock 1/32	55	Toggle MIDI clock 1/32
				16	Pulse NO MIDI clock 1/2	36	Pulse NC MIDI clock 1/2	56	Toggle MIDI clock 1/2
				17	Pulse NO MIDI clk every whole note	37	Pulse NC MIDI clk every whole note	57	Toggle MIDI clock every whole note
				18	Pulse NO MIDI clk every 2nd whole note	38	Pulse NC MIDI clk every 2nd whole note	58	Toggle MIDI clock every 2nd note
				19	Pulse NO MIDI clk every 3rd whole note	39	Pulse NC MIDI clk every 3rd whole note	59	Toggle MIDI clock every 3rd note
				20	Pulse NO MIDI clk every 4th whole note	40	Pulse NC MIDI clk every 4th whole note	60	Toggle MIDI clock every 4th note
				21	Pulse NO MIDI clk every 5th whole note	41	Pulse NC MIDI clk every 5th whole note	61	Toggle MIDI clock every 5th note
				22	Pulse NO MIDI clk every 6th whole note	42	Pulse NC MIDI clk every 6th whole note	62	Toggle MIDI clock every 6th note
				23	Pulse NO MIDI clk every 7th whole note	43	Pulse NC MIDI clk every 7th whole note	63	Toggle MIDI clock every 7th note
				24	Pulse NO MIDI clk every 8th whole note	44	Pulse NC MIDI clk every 8th whole note	64	Toggle MIDI clock every 8th note

MIDI Channel

The ***Garbage Collector*** ships in omni mode (i.e. it responds to every channel).

The ***Garbage Collector's*** MIDI channel can be set in two ways. With the Config-Switch, or with a MIDI command.

To change the MIDI channel using the Config-Switch, follow the steps below

1. Disconnect the device from the power supply
2. Carefully press the Config-Switch with a pointed object (pen, pencil or small screwdriver) and restore the power supply while the button is pressed.
3. After the boot process is complete, the device starts to flash (TRS1 green LED). Press the button according to the number of the desired channel (e.g. twice for channel 2). The ***Garbage Collector*** acknowledges this by emitting short flashing pulses corresponding to the number of the channel.
4. Once the desired channel is set, press the button and hold it down until both green LEDs are lit.
5. Disconnect the supply voltage. The next time the ***Garbage Collector*** is started, it reacts to the selected MIDI channel.

To put the ***Garbage Collector*** in omni mode skip step 3.

To change the MIDI channel via MIDI, the following commands are sent directly one after the other.

For the complete set of functions and commands refer to the full user manual at
https://oscillatordevices.com/garbage-collector