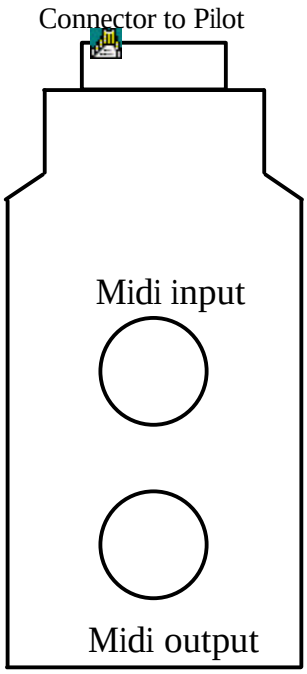
Midi Interface for the Palm Pilot

palMidi



Notes:
The LED indicates midi input only.

The connector to the Pilot is either the cradle that came with your Pilot or you can purchase a separate hot sync cable. NOT a serial cable.

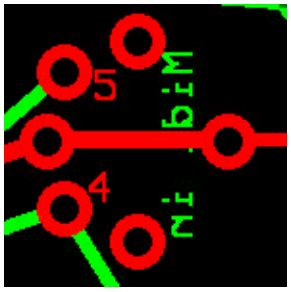


Fig 1

Type	Value	#	Notes
Resistor			
	220K	7	Red,red,brown
	100K	1	Brown,Black,yellow
	20K	2	Red,black,orange
	1K	1	Brown,black,red
Transistor			
	PN2222A	3	
Diode			
	1N4448	1	
IC			
	6N138	1	Opto-coupler
Capacitor			
	100uF	2	10v electrolytic
Connectors			
	Din9	1	Male
	Din5	2	PCB mount,female
Opto			
	LED	1	
PCB			
	Custom	1	

Assembly instructions for PilotMidi board
- Geoff Smith

1. Identify the component side of the board. To identify the component side find the numbers that identify the numbered midi connections, as in Fig 1. You are looking at the component side. All soldering is carried out of the reverse side.
2. Identify each of the resistors,, insert into the correct position and solder into location.
3. Select the 9 pin D connector and insert and solder into the PCB.
4. Identify the capacitors(2) and insert them into the correct position and orientation and solder. The capacitors are polarized,, that is they have a positive and negative pin (the negative pin is identified with a minus sign down the side of the capacitor body). On the PCB the negative hole has a round pad. The positive hole Has a square pad.
5. Identify the diode and insert it into the correct position and orientation and solder. The positive connection is identified on the component as a line around the body. A square pad indicates the positive connection on the PCB.
6. Identify the transistors(3). Insert them into the board with the orientation indicated in the component layout. Solder carefully into the board.
7. Identify the LED, light emitting diode, and insert it into the correct position and orientation and solder. The positive connection is identified on the component by the longer leg. The negative side has a flat section at the base of the LED. A square pad indicates the positive connection on the PCB.
8. Identify the 6N138 IC and insert into the PCB and solder. Ensure the correct orientation. Pin 1 on the component can be identified as a dot next to the pin. A square pad indicates pin 1 on the PCB.
9. Solder the midi connections into the connections supplied.
10. The three holes next to the midi connections are for strain relief. Tie down the midi cables through these holes to prevent movement of the midi cables.
11. If you have a case, place the board against the half of the case with the holes for the connectors. Screw the connectors to the case. Snap the case shells together - it maybe necessary to superglue the case together at the LED end.
12. Select either the clear or black end piece and glue onto the end
13. When there are midi input signals the LED will flash.