

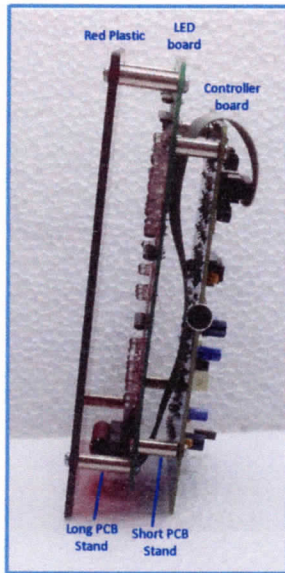
"The Face" soldering kit provides novice and intermediate electronics enthusiasts with the opportunity to practice their soldering skills.

It is recommended that novices start with the controller board as this is the easier of the 2 boards to solder.

Once the soldering is completed assembly takes about 10 minutes.

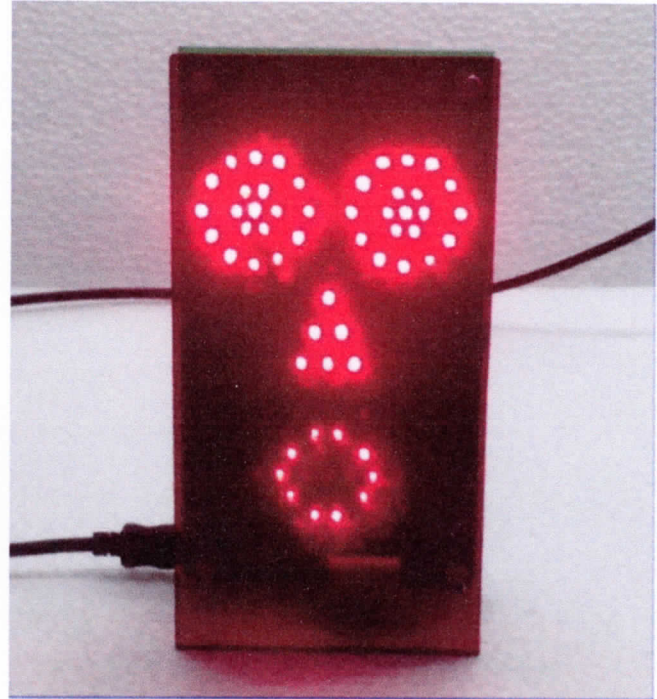
"The Face" has 7 facial expressions which change depending on where the sound is coming from and how loud the sound is: *asleep*; *looking left*; *looking right*; *looking forward*; *surprised left*; *surprised right* and *surprised straight*.

For more information including schematics for the circuit visit: www.austhai.com/makers/the_face.html

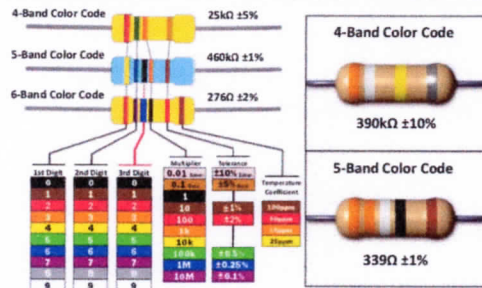


"The Face"

Soldering Practice Kit



Resistor Color Code



A Maker's Corner product from
AusThai Solutions

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Parts List

Led Board

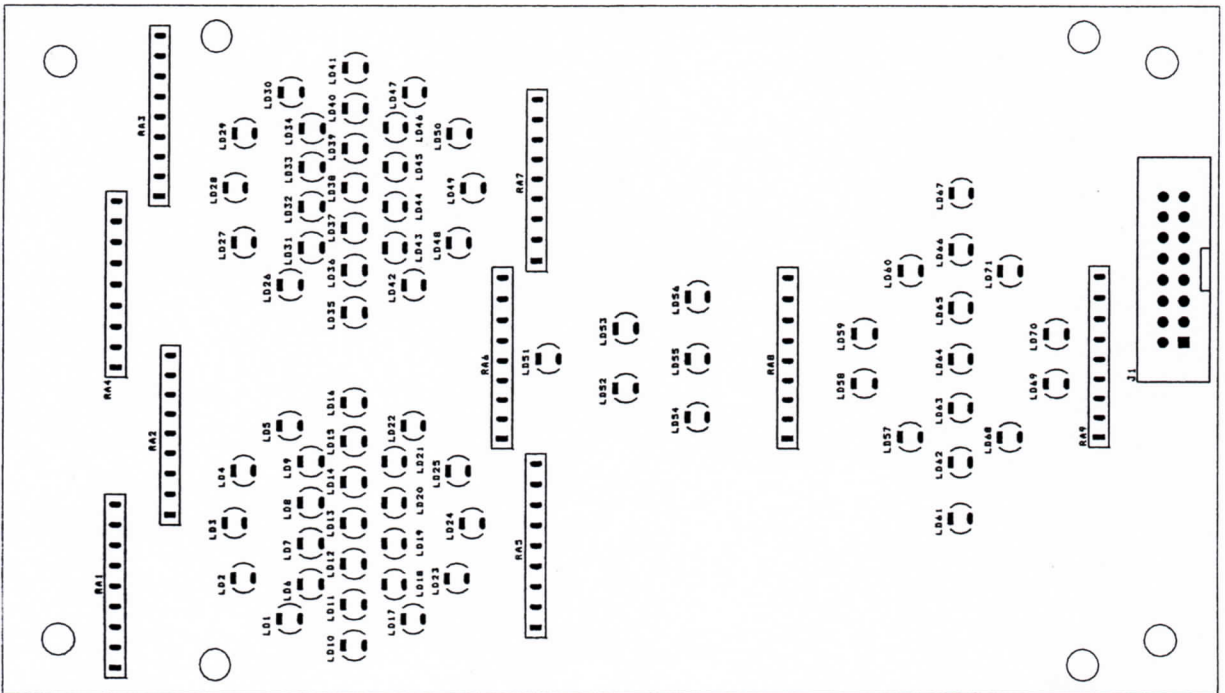
| Item | QTY | Reference | Part |
|------|-----|---|-------------------|
| 1 | 1 | J1 | 16 pin Header |
| 2 | 71 | LD1,LD2,LD3,LD4,LD5,LD6,LD7,LD8,LD9,LD10,LD11,LD12,LD13,LD14,LD15,LD16,LD17,LD18,LD19,LD20,LD21,LD22,LD23,LD24,LD25,LD26,LD27,LD28,LD29,LD30,LD31,LD32,LD33,LD34,LD35,LD36,LD37,LD38,LD39,LD40,LD41,LD42,LD43,LD44,LD45,LD46,LD47,LD48,LD49,LD50,LD51,LD52,LD53,LD54,LD55,LD56,LD57,LD58,LD59,LD60,LD61,LD62,LD63,LD64,LD65,LD66,LD67,LD68,LD69,LD70,LD71 | LED |
| 3 | 9 | RA1,RA2,RA3,RA4,RA5,RA6,RA7,RA8,RA9 | 1k Resistor Array |
| 4 | 1 | PCB | INH1115a |

Controller Board

| Item | QTY | Reference | Part |
|------|-----|--|--------------------|
| 1 | 3 | C1,C5,C7 | 2u2 16V |
| 2 | 2 | C6,C2 | 220n |
| 3 | 4 | C3,C4,C8,C10 | 100n |
| 4 | 2 | C9,C11 | 100u 16V |
| 5 | 2 | D2,D1 | 1N4148 |
| 6 | 1 | J1 | 16 pin Header |
| 7 | 1 | J2 | Mini USB Connector |
| 8 | 1 | L1 | Ferrite |
| 9 | 2 | M2,M1 | Microphone |
| 10 | 12 | Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12 | BC337 |

| Item | QTY | Reference | Part |
|------|-----|---------------------|---------------------|
| 11 | 4 | R1,R4,R9,R12 | 39k |
| 12 | 1 | R2 | 8k2 |
| 13 | 1 | R3 | 3k9 |
| 14 | 1 | R5 | 15k |
| 15 | 4 | R6,R7,R8,R10 | 22k |
| 16 | 4 | R11,R17,R26,R28 | 1M |
| 17 | 5 | R13,R15,R22,R23,R25 | 10k |
| 18 | 5 | R14,R18,R19,R24,R29 | 2k2 |
| 19 | 3 | R16,R27,R30 | 1k |
| 20 | 1 | R20 | 3k3 |
| 21 | 1 | R21 | 100k |
| 22 | 1 | SW1 | Slide Switch (SPDT) |
| 23 | 1 | U1 | LM324 |
| 24 | 1 | U2 | MC68HC908QY2 |
| 25 | 1 | PCB | INH1428 |
| 26 | 1 | J1a | Ribbon cable (24cm) |
| 27 | 2 | J1b | IDC socket |
| 28 | 1 | | Red Plastic |
| 29 | 4 | | PCB Stand (Short) |
| 30 | 4 | | PCB Stand (Long) |
| 31 | 1 | U1a | 14P IC Socket |
| 32 | 1 | U2a | 16P IC Socket |
| 33 | 1 | | Link Wire (20cm) |

Face LED Board
 AusThai Solutions
 INH004_DRIVE_LEDS_1.0
 PCB INH115a



Face Control Board
 AusThai Solutions
 INH004_CONTROLLER_1.1
 PCB-INH142B

