

MOTOR SPEED CONTROL

CAT# MSC-6

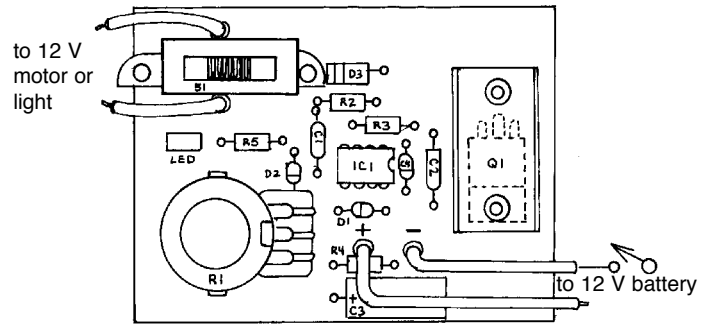
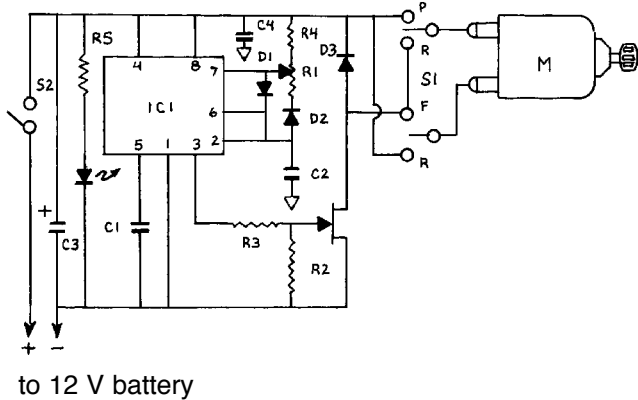


FIGURE B

RESISTORS

| | |
|----|---------|
| R1 | Pot |
| R2 | 20K |
| R3 | 1K |
| R4 | 1K |
| R5 | 470 ohm |

CAPACITOR

| | |
|-------|-------------------|
| C1,C4 | 104 or 0.1 or 0.3 |
| C2 | 0.082 |
| C3 | 100uf |

DIODES

| | |
|--------|-------------------------|
| D1, D2 | SIGNAL DIODE |
| D3 | 3A-300V (large) (MR504) |

MISC

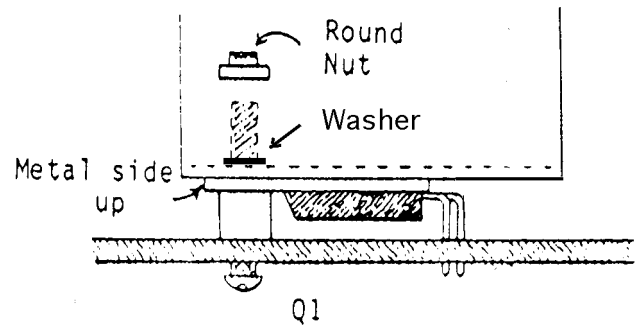
| | |
|-----|----------------------|
| Q1 | Power Mosfet |
| IC1 | 555 (1455P1 or 035B) |
| S1 | Switch |
| S2 | Switch |
| M | Motor |

LED

Heat Sink

PC Board

Hardware & Wire



Q1

FIGURE C
MOSFET Mounting
to Heat Sink/PC Board

Please READ ALL INSTRUCTIONS BEFORE beginning assembly.

1. Insert resistors R2, R3, R4, & R5 and solder them in place. (see figure B)
2. Insert integrated circuit IC1 and capacitors C1, C2, C3 & C4 and solder.. (see figure B)
3. Insert diodes D1, D2 & D3 and LED and solder.
4. Insert potentiometer R1, solder 3 pins and trim.
5. Install motor. Solder wires from motor, next to S-1 (switch) as shown. Polarity does not matter.
6. Install S1 on the board and solder. (Trimming of 1 row of leads, may be necessary.)
7. Bend the leads on the power Mosfet and assemble as shown in figure C.
8. Attach wires for power input. Mark the positive (+) and negative (-) wires.
NOTE: All wiring should handle 10 amps.
9. A 12 volt car head light can be dimmed if it is attached to the same connections as the motor.