INTRODUCTION:

This LED Lamp with three switch control is a very simple LED lamp kit. This intermediate level soldering kit features 32 super bright white LEDs, 16 resistors, a diode, and three switches. The user can turn on the LEDs in three different ways using the control switches. In addition, the LED lamp kit can be used in a practical way as a flashlight or night light. All component parts are included with the kit.

A 9V battery is required, optional 9V/400mA wall adapter available. (Not included)

TOOLS/EQUIPMENT NEEDED:

1. Solder iron/stand – Recommended solder iron:
   - RSR High Performance 3-wire iron w/conical tip (060509)
   - Stand w/sponge (060841)
2. Soldering station - Recommended soldering station:
   - RSR Economy Model w/conical tip (0603ZD98)
3. 60/40 solder or unleaded solder
4. Desolder pump
5. Wire Cutter

OPTIONAL ITEMS (RECOMMENDED):

6. RSR Fume Extractor or economy model smoke/fume absorber (0608426DLX, 0608ZD153)
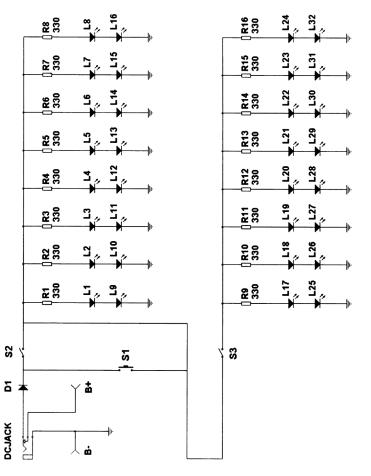7. RSR Helping Hand complete set (060834)

PARTS LIST

QTY	SYMBOL ON PCB	DESCRIPTION	PART NO.
16	R1-R16	Resistor: 330 ohms	13005330
		Color Code: Orange, Orange, Brown	
32	L1-L32	Super Bright White LEDs	08LCHW5
1	D1	Diode: 1N4001	111N4001
1	S1	Push Button Switch	17DTS83K
2	S2, S3	Slide Switch	17PMWSS
1	DC Jack	3.5mm Mono Jack Socket	0703PMWDCJ
1	B+, B-	9V Battery Snap	2801BST
2	LEG	LEG for the lamp	97PMWLEG
1		PCB for Lamp	97PCB270033

13005330 08LCHW5 111N4001

17DTS83K 17PMWSS 0703PMWDCJ

2801BST

ASSEMBLY INSTRUCTIONS:

A. Take the time to inspect the kit to make sure all components parts are included with the kit.
B. Identify and locate resistors R1-R16 on the pcb (97PCB270033). Solder to the board and cut excess leads.
C. Place the super bright white LEDs on the pcb with the long lead (anode side) where the "+" sign is located. Orient all LEDs this way observing polarity. Cut excess leads.
D. Take diode D1 and solder to pcb observing component orientation.
E. Place push button switch S1 on the board and solder to pcb.
F. Place slide switches on the board and solder to pcb.
G. Place the DC jack on the pcb. Be sure to orient the socket properly and solder to pcb.
H. Take the 9V battery snap and solder to pcb observing proper polarity.
I. Place the lamp Legs in the slots designated for them.

YOU MAY BE INTERESTED IN THESE RELATED PRODUCTS/KITS:

BEGINNER TO INTERMEDIATE LEVEL KITS:

- Night Light Kit – RSR Part No. 3200NTLTKIT
- Automatic Street Light Kit – RSR Part No. 32PWM270006
- Traffic Light – RSR Part No. 32VKMK131
- Solar Blinking Light Kit – RSR Part No. 32GSK1005
- Solar Guide Light Kit – RSR Part No. 32GSK1004
- Strobe Light Kit – RSR Part No. 32EKI2040

SOLDERING AIDS:

- Tip Cleaner – RSR Part No. 0603460
- Tip Tinner – RSR Part No. 0603WTT
- Solder Aid Kit – RSR Part No. 060830
- Solder Paste Flux – RSR Part No. 0608ZD170

For tips on soldering techniques and safety information, please visit the Better Soldering page on our website at www.elexp.com/soldering

NOTE: For additional component parts, please go to our website at http://www.elexp.com or contact one of our customer reps for assistance at 1-800-972-2225.