Red Box Contents

Top Tray:

- 2 MM (magnetic multi meters) with leads
- 2 cells, 1.5*V* AA
- 4 fuses, for MMM
- 1 CLK (clip lead kit)
- 1 roll tape, black vinyl
- piece emery cloth
- 2 magnets
- 1 ft resistance wire, MWS type 800
- 1 socket, for 1157 lamp

Bottom Compartment:

1 transformer 120 *V* ac to 12 *V* ac 1pack. aluminum foil for expts. MF & MW

12 Kits in Packages:

- 1 MM (multi meter)
- 2 LVPS (low voltage power supply)
- 1 LVPST (low voltage power supply test)
- 1 VI (voltage & current)
- 1 HVPS (high voltage power supply)
- 1 EF (electrostatic force)
- 1 EB (electrical breakdown)
- 1 AMP (amplifier)
- 1 MF (magnetic force)
- 1 MW (microwaves)

Kits Parts List

Parts marked (RB) are in RedBox

CLK	12 12 10 10 4 ft 4 ft	alligator clips insulating sleeves, black* alligator clips insulating sleeves, red wire, #22 black, stranded wire, #22 red, stranded *use 2 black for transformer
MM	1 1 2	cell, 1.5 V AA battery holder resistors, $20\Omega \ 1/2W$
LVPS	S 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	perfboard rubber feet full wave bridge rectifier electrolytic capacitor, $1000 \mu F$ socket for LM317T regulator potentiometer, $5k\Omega$ electrolytic capacitor, $1\mu F$ resistor, 390Ω 1/2W wire, #22 bare solid voltage regulator LM317T
LVP	ST 1 1 1	resistor, 2.4Ω 2W lamp #1157 automotive heat sink for LM317 regulator
VI	3 3 3	lamps, #47 6.3 V 0.15 A lamp holders resistors, 43 Ω 1/2 W electrolytic capacitor, 1000 μF

1 ft wire, #22 insulated stranded

HVPS

- 1 transistor, 2N3055T
- 1 socket, transistor
- 1 heat sink, clip on
- 2 diodes, 1N5062
- 1 ferrite core inductor, 5mH
- 1 capacitor, ceramic disc, 100 pF
- 2 capacitors, ceramic disc, 470 pF
- 1 capacitor, ceramic disc, 1000 pF
- 1 resistor, $8.2 \, k\Omega \, 1/2W$
- 2 resistor, $1 M\Omega 1/2W$
- 1 ft wire, #26 insulated solid
- 1 ft wire, #22 red insulated solid
- 1 ft wire, #22 bare solid

EF

- 1 strip perfboard
- washers, 1in. plated steel
- 4 ft wire, #30 bare solid
- 1piece Al foil, 2in square 0.0003in thick
- 1piece sand paper 80 grit

$\mathbf{E}\mathbf{B}$

- 1 clothespin, wooden drilled
- 1-3/4 in rod, tungsten 0.040 in dia.
- 2 screws, brass 4-40x1/2
- 3 nuts, steel 4-40
- 2 solder lugs
- 1 corner brace, 2*in*
- 1 screw, 4-40x11/2" steel
- 3 washers, #4 flat
- 1 wing nut, 4-40 nylon
- 2 resistors, $1 M\Omega 1/2W$
- 3 ft wire, #22 speaker

MF

- 40 ft wire, #26 enameled copper
- 1 piece foam core, 2 in by 10 in (**RB**)
- pins, T-head
- 2 corner braces, 1*in*
- 1piece tape, double sided
- 1 ft wire, #22 red insulated stranded
- 1 ft wire, #22 black insulated stranded

AMP

- op amp, LF411
- 1 socket, IC 8 pin dual inline
- 1 potentiometer, $100 k\Omega$
- 1 potentiometer, $5k\Omega$
- 3 resistors, $100 \Omega 1/2W$
- 2 resistors, $9.1k\Omega 1/2W$
- 1 resistor, $91k\Omega$ 1/2W
- 1 resistor, $1.3k\Omega$ 1/2W
- 1 resistor, $150 k\Omega 1/2W$
- 1 capacitor, $0.05 \mu F$
- 1 ft wire, #22 red insulated solid
- 1 ft wire, #22 bare solid

MW

- diode, Schottky 1N5711
- 1 capacitor, 33 pF ceramic disc
- 4.5 in wire, household 14x2 w/ground(NM)
- 4 ft wire, 2 conductor shielded
- 3 ft wire, #22 speaker (from EB and MI)