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
1 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	alligator clips
12	insulating sleeves, black*
10	alligator clips
10	insulating sleeves, red
4 *ft*	wire, #22 black, stranded
4 *ft*	wire, #22 red, stranded
	***use 2 black for transformer**

MM

1	cell, $1.5V$ AA
1	battery holder
2	resistors, 20Ω $1/2W$

LVPS

1	perfboard
4	rubber feet
1	full wave bridge rectifier
1	electrolytic capacitor, $1000\mu F$
1	socket for LM317T regulator
1	potentiometer, $5k\Omega$
1	electrolytic capacitor, $1\mu F$
1	resistor, 390Ω $1/2W$
1 *ft*	wire, #22 bare solid
1	voltage regulator LM317T

LVPST

1	resistor, 2.4Ω $2W$
1	lamp #1157 automotive
1	heat sink for LM317 regulator

VI

3	lamps, #47 $6.3V$ $0.15A$
3	lamp holders
3	resistors, 43Ω $1/2W$
1	electrolytic capacitor, $1000\mu F$
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, $5\,mH$
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
2	washers, 1in. plated steel
4 ft	wire, #30 bare solid
1piece	Al foil, $2\,in$ square $0.0003\,in$ thick
1piece	sand paper 80 grit

EB

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
1piece	foam core, $2\,in$ by $10\,in$ (**RB**)
2	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

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

MI

2	magnets (**RB**)
2 *ft*	thread
9 *in*	wire, house 12x2 w/ground (NM) (**RB)**
1piece	aluminum foil as needed (**RB**)
3 *ft*	wire, #22 speaker (from EB)

MW

1	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)