

Item No.	Base Cost Each	Tax & Shipping	Actual Cost Each	Qty	Total Cost	Part Number
1	\$0.82	7%	\$0.88	1	\$0.88	MD No. 0-43374-13045-4
2	\$1.79	7%	\$1.92	1	\$1.92	Radio Shack 276-087
3	\$0.60	7%	\$0.64	1	\$0.64	Radio Shack 276-080
4	\$0.60	7%	\$0.64	1	\$0.64	Radio Shack 274-346
5	\$0.10	7%	\$0.11	1	\$0.11	Radio Shack 271-1328
6*	\$13.50	13%	\$15.21	1	\$15.21	Clarostat CR-25
7	\$0.50	7%	\$0.54	1	\$0.54	Radio Shack 274-403
8	\$2.99	7%	\$3.20	2	\$6.40	Radio Shack 275-612
9	\$1.00	7%	\$1.07	1	\$1.07	

\$27.40 Subtotal 1 - Upper Co

Purchased Parts						
10	\$0.40	7%	\$0.43	1	\$0.43	Radio Shack 274-650
11	\$16.50	7%	\$17.66	2	\$35.31	LGB 12010
12	\$10.55	7%	\$11.29	2	\$22.58	LGB 12030
13	\$12.00	0%	\$12.00	1	\$12.00	D8811-165 Sheet 9
14	\$0.50	0%	\$0.50	1	\$0.50	see instructions P165
15	\$1.59	7%	\$1.70	1	\$1.70	Radio Shack 274-659
16*	\$3.93	13%	\$4.44	1	\$4.44	Beau 76016

Adhesive, Fasteners, F						
17	\$10.00	7%	\$10.70	0.2	\$2.14	3M #77
18	\$0.10	7%	\$0.11	1	\$0.11	
19	\$8.00	7%	\$8.56	0.1	\$0.86	Ace 35A-1A Beechtree
20*	\$1.00	7%	\$1.07	1	\$1.07	Carol 75241-Black
21*	\$1.00	7%	\$1.07	1	\$1.07	Carol 75241-Blue
22*	\$1.00	7%	\$1.07	1	\$1.07	Carol 75241-Gray
23*	\$1.00	7%	\$1.07	1	\$1.07	Carol 75241-Green
24*	\$1.00	7%	\$1.07	1	\$1.07	Carol 75241-Red
25*	\$1.00	7%	\$1.07	1	\$1.07	Carol 75241-Yellow
26	\$4.49	7%	\$4.80	0	\$0.00	Radio Shack 278-1223
27	\$2.00	7%	\$2.14	1	\$2.14	
28	\$0.20	7%	\$0.21	2	\$0.43	
29	\$0.10	7%	\$0.11	22	\$2.35	

\$91.40 Subtotal 2 - Lower Co

\$118.80 Subtotal 3 - Control U

\$80.20 Labor, Advertising, Printin

\$10.00 Shipping

\$209.00 Assembled, Delivered

Description	Source
Angle—Aluminum, 2-3/4" x 1-1/2" x 1/16" x 36" (cut 3-1/4" from 36" piece @ \$8/piece = \$0.82 ea)	Ace Hardware
LED, super Bright Red 20 mA @ 1.85 VDC	Radio Shack
LED Holder, Panel Mount for T-1-3/4 size (use 1 from pkg of 2 @ \$1.19/pkg = \$0.60 ea)	Radio Shack
Phono Jack, Panel Mount, for standard RCA plug (use 1 from pkg of 4 @ \$2.49/pkg = \$0.62 ea)	Radio Shack
Resistor, 3300 Ohm, 1/4 watt (use 1 from pkg of 5 @ \$0.49/pkg = \$0.10 ea)	Radio Shack
Rheostat, Wire Wound, 15 ohms, 25 watts (Newark Stock# 87F6390, pg 265, 1994 Cat#113)	Newark Electronics, 800-367-3573
Rheostat Knob, 1/2" Dia x 3/8 wide, for 1/4" Rheostat shaft (use 1 from pkg of 2 @ \$0.99/pkg = \$0.99 ea)	Radio Shack
Switch, SPST, Submini Toggle	Radio Shack
Tubing, Shrink Wrap, Size 3/32", Yellow (to wrap resistors)	electronics parts supply store

Control Unit (Rheostat Bracket Assy, Items 1-9)

Jumper, 8 Position, for term. blocks (cut 1 strip into 4 pieces per Sh 9 @ \$1.59/strip = \$0.40 ea)	Radio Shack
Switch Motor	LGB Train Stop
Relay Points, DPDT (snaps in end of 12010 switch motor)	LGB Train Stop
Template, Plastic-Laminated & Color Coded	Ingram Autocontrols
Label, Plastic-Laminated, Yellow Control, for side of rheostat mounting bracket	Ingram Autocontrols
Terminal Block, 6 Position Dual Row	Radio Shack
Terminal Block, 16 Position (Newark Stock# 14F2609, pg 916, 1994 Cat#113)	Newark Electronics, 800-367-3573

Paint, Wire, Wood

Adhesive, Spray (for glueing laminated Sh 9 template to wood base) (use 1/5 can @ \$10/can)	art supply store
Cement, Rubber	art supply store
Paint, brown, for plywood base. (use 1/10 can @ \$8/can)	Ace Hardware
Wire, 18 Ga Solid, color black (DC +, switched) (All Wire 50018000-0)	All Wire (303) 295-0106 (Denver)
Wire, 18 Ga Solid, color blue (DC +, unswitched) (All Wire 50018000-6)	All Wire (303) 295-0106 (Denver)
Wire, 18 Ga Solid, color gray (AC +, switched, constant for target signal) (All Wire 50018000-8)	All Wire (303) 295-0106 (Denver)
Wire, 18 Ga Solid, color green (AC +, switched, momentary, output from track contacts) (50018000-4)	All Wire (303) 295-0106 (Denver)
Wire, 18 Ga Solid, color red (AC -, unswitched) (All Wire 50018000-2)	All Wire (303) 295-0106 (Denver)
Wire, 18 Ga Solid, color yellow (AC +, unswitched) (All Wire 50018000-4)	All Wire (303) 295-0106 (Denver)
Wire, 18 Ga Solid, black, green, red. (Alternate for above. Blue, yellow, gray not avail. from Radio Shack)	Radio Shack
Wood, Plywood Base for Control Unit — approx. 12-7/8" Long x 6-1/4" Wide X 1/2" Thk (Sh. 9, It)	building supply store
Screw, Machine, #8-32 X 1-1/4" Lg, Truss Head, w/Wing Nut & Washers (connect control unit to base)	Ace Hardware
Screw, Wood, #4 X 1/2" Long (connecting components to wood base)	Ace Hardware

Control Unit, Items 10-29

Notes:

Unit (Subtotal 1 + Subtotal 2)

Computer Services, Auto Mileage

Price, Control Unit

* Item 6 rheo. & 16 term. from Newark Electronics (usually has \$25 minimum order).

* Item 6 Rheostat: Alternate is Ohmite RHS15R.

* Items 20-25 18 ga Wire: made by Carol Cable Co., 800-372-6374

* Items 20-25 also made by Apex Wire Co, Hauppauge NY, 516/273-3322.

(Built per Sh. 9)

MODEL 165 AUTO SWITCHING BLOCK	By James R. Ingram, Littleton CO 303-798-1968	ORIG 01Feb94; Rev G, 01Sep95
PARTS LIST, CONTROL UNIT		D8811-165-Sh. 7