

Schematic Symbol	NuTone Part No.	Description
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MODEL S-245 SMOKE DETECTOR

10255-900	Complete Assembly
38963-000	Cover
31526-015	Screw #6-20 x 1 3/4" Ph. Pan Hd. "A" — Mounting Cover to Back
16978-038	Screw #6 x 7/8" Slit. Rd. Hd. Mach. — For Installation
38951-000	Mounting Plate
48301-000	Instruction Sheet

MODEL S-245H SMOKE DETECTOR

10260-900	Complete Assembly
38963-000	Cover
31526-015	Screw #6-20 x 1 3/4" Ph. Pan Hd. "A" — Mounting Cover to Back
16978-038	Screw #6 x 7/8" Slit. Rd. Hd. Mach. — For Installation
38951-000	Mounting Plate
48301-000	Instruction Sheet

MODEL SA-2300 MASTER UNIT

10763-900	Complete Assembly
42223-000	P. C. Board Assembly

RESISTORS

R1	33101-102	1K \pm 10%, 1/2 watt, Carbon
R2, R3	33082-561	560
R4	33082-273	27K
R5	33082-104	100K
R6	33082-822	8.2K
R7	33082-105	1M
R8	33082-823	82K
R9	33082-224	220K
R10	33082-104	100K
R11	33082-103	10K
R12	33082-102	1K
R13	33082-474	470K
R14, R15	33082-154	150K
R16	33082-273	27K
R17	33082-561	560
R18	33082-104	100K
R19	33082-103	10K
R20	33082-474	470K
R21	33082-223	22K
R22	Not Used	
R23	33082-274	270K
R24	33082-102	1K
R25	33082-103	10K
R26	33082-474	470K
R27, R28	33082-224	220K
R29	33082-105	1M
R30	33082-104	100K
R31	33082-221	220
R32	33082-105	1M
R33	33082-224	220K
R34, R35	33082-104	100K
R36	33082-680	68
R37	33082-474	470K
R38	33082-105	1M
R39, R40, R41	33082-103	10K

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R42	33082-680	68
R43	33082-273	27K
R44	33082-220	22
R45	33082-104	100K
R46	33082-474	470K
R47	33082-105	1M
R48	33082-273	27K
R49	33082-103	10K
R50	33082-102	1K
R51	33082-183	18K
R52	33082-121	120
R53	33082-182	1.8K
R54	33082-102	1K
R55	33082-103	10K
R56	33082-680	68

DIODES

D1, D2	36608-000	Silicon Rectifier, Power Supply, 3 Amp DC, 100 PIV; Mot. MR-502 General Instrument 1N540Z
D3, D4, D5, D6	36549-000	Silicon Rectifier Type 1 Amp DC, 100 PIV; 1N4002
D7	36539-000	Zener, Silicon 12V \pm 5%; 1N4742A
D8, D9, D10	36549-000	Silicon Rectifier Type 1 Amp DC, 100 PIV; 1N4002
D11	Not Used	
D12	36549-000	Silicon Rectifier Type 1 Amp DC, 100 PIV; 1N4002
D13	Not Used	
D14	36632-000	Zener, Silicon, 27V \pm 10% 1N4750
D15, D16	36549-000	Silicon Rectifier Type 1 Amp DC, 100 PIV, 1N4002
D17		
D18	36632-000	Zener, Silicon, 27V \pm 10% 1N4750
D19	36549-000	Silicon Rectifier Type 1 Amp DC, 100 PIV; 1N4002
D20	Not Used	
D21, D22	36631-000	Zenner, Silicon, 15V \pm 15% 1N744Z
D23		
D24	36632-000	Zener, Silicon, 27V \pm 10% 1N4750
D25	36549-000	Silicon Rectifier Type 1 Amp DC, 100 PIV, 1N4402

CAPACITORS

C1	35091-101	470, +100%, -10% 35WVDC Electrolytic
C2	35091-104	33, +100%, -10% 25WVDC Electrolytic
C3	35091-108	100, +100%, -10% 25WVDC Electrolytic
C4	35055-101	.47 \pm 20%, 100V Polyester Film
C5	35100-139	.01, +80%, -20%, 50V Ceramic Disc.
C6, C7, C8	35055-101	.47 \pm 20%, 100V Polyester Film
C9	35055-106	.047 \pm 10%, 100V Polyester Film
C10	35100-139	.01, +80%, -20%, 50V Ceramic Disc.
C11, C12, C13	35055-101	.47 \pm 20%, 100V Polyester
C14	35100-127	.1, +80%, -20%, 100V Ceramic Disc.

Schematic Symbol	NuTone Part No.	Description
C15	35091-104	33, +100%, -10% 25WVDC Electrolytic
C16	35100-127	.1, +80% -20%, 100V Ceramic Disc.
C17, C18	35100-139	.01, +80%, -20%, 50V Ceramic Disc.
C19	35091-103	4.7, +100%, -10% 25WVDC Electrolytic
C20	35100-177	820, ± 10%, 500V Ceramic Disc.
C21, C22	35100-127	.1, +80%, -20%, 100V Ceramic Disc.
RELAYS		
K1	39505-000	DPDT, AC/DC Supply Switching; Contact Rating .03 to 5 Amp Resistive; and 2.5 Amp Inductive @ 24VDC. Coil 400 Ohms ± 10% Nominal 12VDC ± 33%; Must Pull-In at 8V or less at 25°C. RBM 164-321104-1110 Cornell Dubilier 683-674B
K2	39506-000	SPST, Off/On Switch for Alarm Horns and/or Bell Contact Rating .03 to 5 Amp Resistive, and 2.5 Amp Inductive @ 24VDC. Coil: 360-550 Ohms; Nominal 12VDC ± 33%; Must Pull-In at 8V or less at 25°C Cornell Dubilier 601-675B. RBM #64-153151-100. Price Electronic 28B111AE-0120 North American Phillips 28B111AE-0120
K3	39507-000	DPDT, Fire Detector Circuit Switching. Contact Rating 500 microamps to 10 ma Resistive @ 9 to 15Vdc. Coil: 400 to 550 ohms; nominal 12Vdc; must pull-in at 9V or less at 25°C. RBM X301BR (modified); Cornell-Dubilier Series 683-715G
K4	39337-000	SPST, Reed, Standby, Electronic Specialty Div. Datron Systems Inc. #LM-30-004
SWITCHES		
S1	39503-000	DPDT, Slide Trouble Buzzer Audible-Silence; Switchcraft XW-2791
S2	39690-000	5 Position Rotary, 2 End Positions are Momentary. Contact with Rush-In for Contact of 1 and 5 Standard Grigsby #46622-MLR-1
	39512-000	Knob, S2 Rotary Switch
S3	39508-000	DPDT, Slide Reset; Momentary In Reset Position — Switchcraft XW-2790
S4	39503-000	DPDT, Slide, Alarm Silent-Audible — Switchcraft XW-2791
	11551-003	Screw #6-32 x 3/8 Ph. Tr. Hd. "23"; S3 to Control Panel Mounting

Schematic Symbol	NuTone Part No.	Description
S5	38502-000	DPST, Slide Interior Intruder Off/On; Switchcraft 4620LR (Modified)
	38669-003	Bracket, Switch S5
	25511-015	Screw #6-32 x 1/4" Slit. Pan Hd. "23" S5 to Bracket Mounting
	41797-000	S5 and Bracket Complete Mounting
CONNECTORS		
J1	39500-000	18-Pin Male, Connect through P1 to TB1
J2	41814-000	3-Pin, male and Wire Assy. connect through P2 to AC voltage from T1
J3	Not Used	
J4	39499-107	10-Pin (12 Sockets) Female, Connect through P4 to SA-2280 Exit/Entry Timer
J5	39499-106	8-Pin (10 Sockets) Female, Connect through P5 to SA-2375 Phone Dialer
J6	39499-106	10-Pin (12 Sockets) Female, Connect through P6 to S-2330 Alarm Shutdown Timer
J7	39499-103	3-Pin (6 Socket) Female, Connect through P7 to S-2370 Battery Charger
	39494-000	Key, Polarizing, for use in extra Sockets in J4, J5, J6 and J7
HORNS AND BUZZERS		
B1	36116-000	Buzzer, Signal; 12V Trinetics Inc. #22110-8
	26604-000	Screw #8-32 x 3/8 Slit. Hd. Mach.-Buzzer Mounting
B2	41708-000	Horn, Alarm; 12V, Complete Assembly with Connecting Wires
	39590-000	Horn
	39720-015	Screw #10 x 1/8" Ph. Tr. Hd. Mach. — Horn Mounting
TRANSISTORS		
Q1, Q5, Q6	36613-000	NPN Silicon Motorola MPSA20 Texas Inst. T1S-98
Q2	36605-000	NPN Silicon Power Regulator — Motorola MPS-U05
Q3	36615-000	PNP Silicon — Motorola MPSK71
Q4	36606-000	PNP Silicon, Mot. MPSK71
INTEGRATED CIRCUITS		
Z1	36625-000	14 Pin, Monolithic Quad Norton Operational Amplifier; Motorola MC-3301-P Nat. Semiconductor LM-3900N or LM2900N
Z2	36630-000	14 Pin, Quad 2 — Input AND Gates; Motorola MC14081CP Solid State Scientific SCL-4081-AE
Z3, Z4	36644-000	14 Pin, Quad 2 — Input NOR Gates; RCA CD4001AE (only)
IC SOCKETS		
	39501-000	14 Pin

Schematic Symbol	NuTone Part No.	Description
INDICATOR LAMPS		
I1	36637-000	LED, Green, 40MA Maximum 5 PIV: AC on Pilot Xciton XC556-G-2
I2	36637-000	LED, Green, 40MA Maximum 5 PIV: Intruder Circuit Armed Xciton XC556-G-2
	41725-000	12, Wire and Sleeving, Complete Assembly
I3	36636-000	LED, Yellow Trouble/Alarm
I4	39438-000	Neon, 105-125V, Alarm Horn Circuit Protection: G.E. Glow Lamp #C2A-ET (NE-2H3T) or Engineering Equivalent
FUSES		
F1	31160-000	2 Amp. AGC3, Smoke Detector Power Supply
F2	31160-000	2 Amp. AGC3, Remote Alarm Horns and/or Bell
	39634-000	Clip, F1 and F2 (2 Required for each Fuse)
	9686-000	Clip, Spare Fuse
	31990-015	Screw #4-40 x 1/2" Ph. Pan Hd. "A" Fuse Clip Mounting
	11159-003	Hex Nut #4-40 Fuse Clip Mounting
	25471-000	Washer — Fuse Clip Mounting
	31872-000	Lockwasher — Ext. Tooth Fuse Clip Mounting
MISCELLANEOUS		
	42224-000	Control Panel Complete
	38909-000	Inlay — Switch
	38670-000	Control Panel
	90029-004	Screw #6 x 3/8" Ph. Tr. "A"

Schematic Symbol	NuTone Part No.	Description
	38673-000	Inlay Switch Mtg. to Control Panel (5 Req.)
	90029-004	Cover — Batt. & Wiring Screw #6 x 3/8" Ph. Tr. "A" Mounting of Cover — Batt. & Wiring
	48009-000	Cover — Main P. C. Board
	39415-000	Retainer Strap
	76845-015	Screw #8-32 x 1/2" Ph. Tr. Hd. "B" — P. C. Board Mtg. to Control Panel (5 Req.)
	31967-000	Cable Clamp
	42225-000	Door Assembly Complete
	38674-000	Door
	38509-000	Lock, 3-Position with Keys
	39586-000	Lockwasher — Lock Mtg.
	39510-003	Cam
	39568-000	Hinge Pin
	48020-000	Label — Instruction
	48079-000	Label — Model Warning
	41710-000	Mounting Bracket and Screw Assembly
	10573-000	Envelope — Mtg. Screws
	9501-015	Screw #8 x 1" Slit. Rd. Hd. "A" Control Panel to Mtg. Brkt.
	10296-003	Screw #8 x 3/8" Rd. Hd. Slit. "A" Mtg. Brkt. to SA-22/23R
	14384-038	Screw #8 x 3/8" Pan Hd. Slit. "A" Retainer Straps to SA-22/23R
	38676-000	Control Inlay
	22577-000	Warning Label
	48007-000	Instruction Sheet
	48117-000	Instruction Sheet Suppl.
	48023-000	Homeowner's Manual

NuTone Housing Products

Product specifications subject to change without notice.

Scovill

Madison & Red Bank Roads, Cincinnati, Ohio 45227

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