

Duo-THERM
by Dometic

WHEN ORDERING SPARE PARTS, ALWAYS STATE:

MODEL NO. - PRODUCT NO. - QUANTITY -
PART NUMBER - DESCRIPTION

BRISKAIR

ROOF-Top Air Conditioner

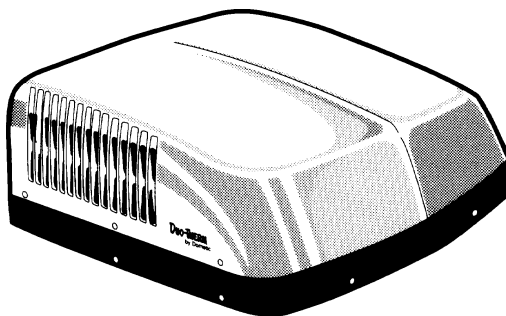
WITH CUSTOMER OPTIONS

Air Distribution Box Kit - 3105023.000

Electronic Control Kit 3104999.002

Electronic Control Kit - 3104999.010

BiMetal Relay control Kit - 3104998.004



USA
SERVICE OFFICE
The Dometic Corp.
509 So. Poplar St.
LaGrange, IN 46761

CANADA
Dometic Dist.
866 Lings Dr.
Cambridge, Ontario
CANADA N3H 2N7

PARTS LIST

MODEL
59016.511
Product No. 991731630

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ALPHABETICAL INDEX

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SPECIFICATIONS

Electronic Control Kit #3104999.002/3104999.010 Bi-Metal Relay Control Kit #3104998.004

MODEL NO.	59016.511
Nominal Capacity (BTU/HR)	15,000
Electrical Rating	115 VAC, 60 Hz., 1 ph.
Compressor Rated Load Amps	11.0
Fan Motor Rated Load Amps	2.5
Compressor Locked Rotor Amps	54.4
Fan Motor Locked Rotor Amps	6.0
Heater Amps/Watts @ 120 VAC	12.7/1530
Input Watts, Cooling	1700
Input Watts, Heating	1800
SCFM-High Speed Max./Min.	350 / 250
Total Static - Min./Max.	0/55/0.90" WC
Refrigerant (R22) Oz.	26.5
Minimum Wire Size *** AC	12 AWG Copper Up to 24 ft.
AC Circuit Protection (User Supplied)	20 Amp Time Delay Fuse or HACR Circuit Breaker
DC Circuit Protection (User Supplied)	Installation must comply with the National Electrical Code, the Canadian Electrical Code and any State or Local Codes and Regulations.
Installed Weight (Pounds)	101
Minimum Generator	1 Unit 2.5 KW
Size **	2 Units 4.0 KW

SPECIFICATIONS

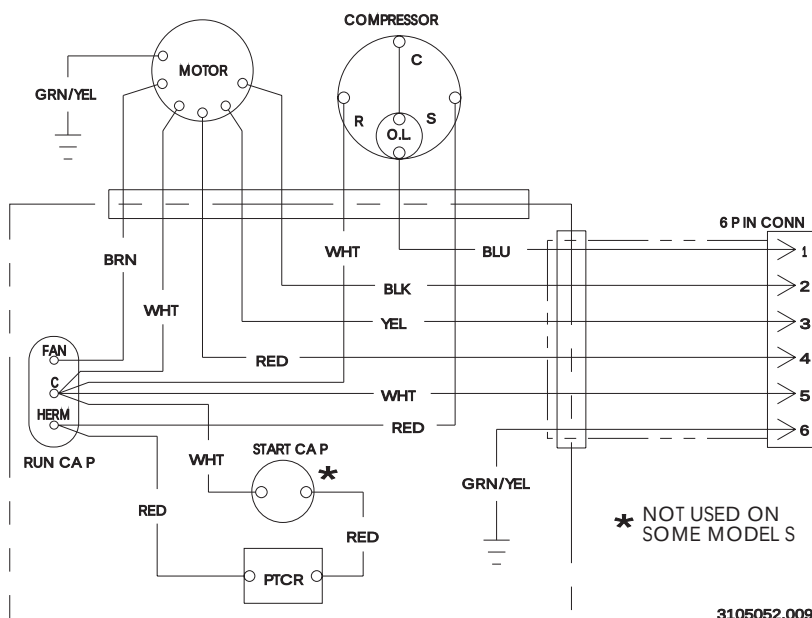
Air Distribution Box Kit #3105023.000

MODEL NO.	59016.511
Nominal Capacity (BTU/HR)	15,000
Electrical Rating	115 VAC, 60 Hz., 1 ph.
Compressor Rated Load Amps	11.0
Fan Motor Rated Load Amps	2.5
Compressor Locked Rotor Amps	54.4
Fan Motor Locked Rotor Amps	6.0
Heater Amps/Watts@120VAC	12.7/1530
Input Watts, Cooling	1700
Input Watts, Heating	1800 @ 120 VAC
Refrigerant (R22) Oz.	26.5
Minimum Wire Size *** AC	12 AWG Copper Up to 24 ft.
AC Circuit Protection (User Supplied)	20 Amp Time Delay Fuse or HACR Circuit Breaker
Installed Weight (Pounds)	110
Minimum Generator	1 Unit 3.5 KW
Size **	2 Units 5.0 KW

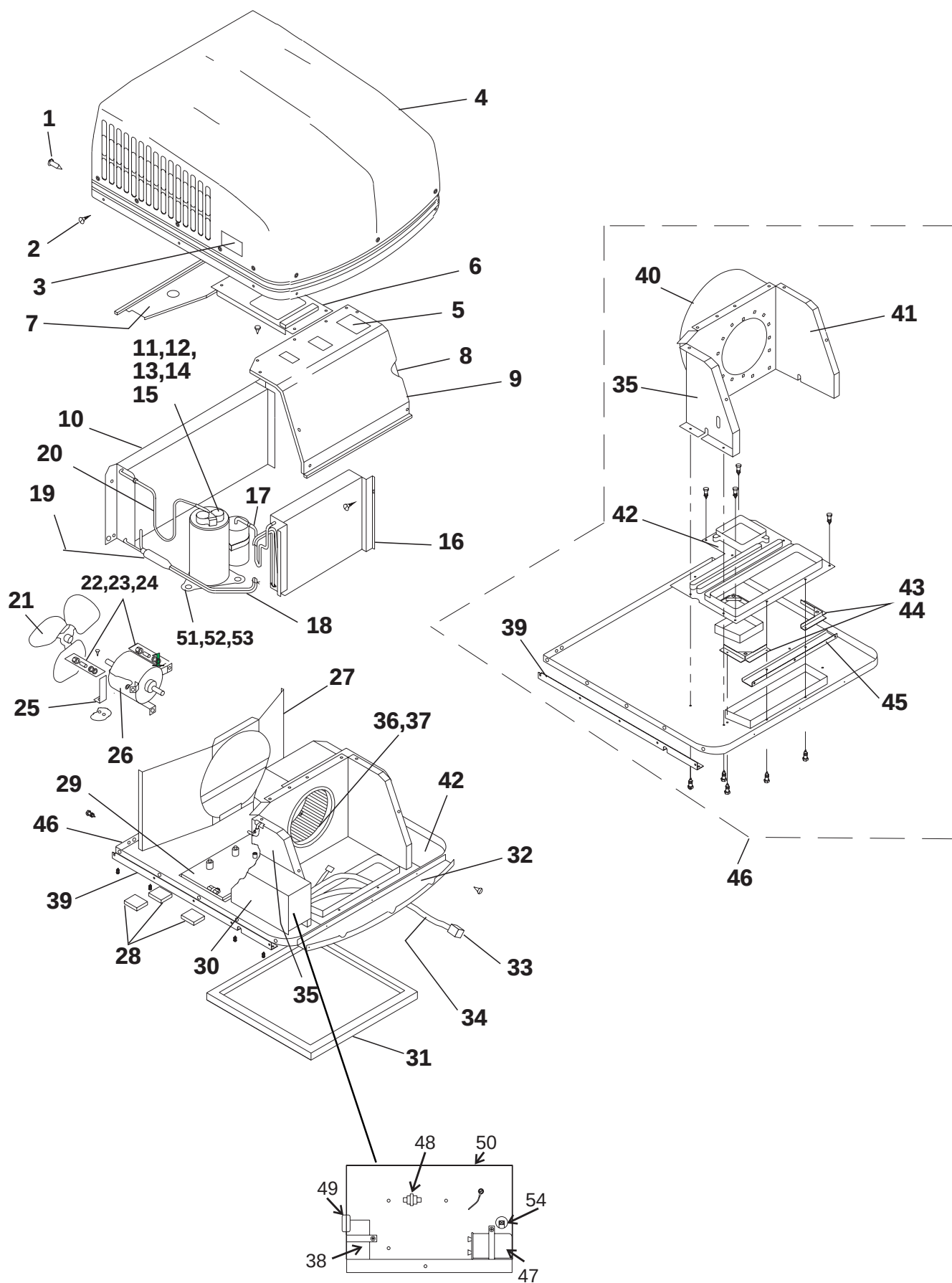
*** For distances over 24 ft. consult the National Electrical Code.

** The Dometic Corporation gives **GENERAL** guidelines for generator requirements. These guidelines come from experiences people have had in actual applications. When sizing the generator, the total power usage of your recreational vehicle must be considered. Also keep in mind generators lose power at high altitudes and from lack of maintenance.

UPPER UNIT FIELD WIRING DIAGRAM



3105052.009



Index #	Description	Part No. - 59016.511
1	Screw, shoulder (2 req.)	3102834.003
2	Screw, shroud (12 req.)	313685.001
3	Decal, shroud (2 req.)	3104238.005
4	Shroud	3103144.006
5	Decal, field wiring	3105052.009
6	Cover, condenser	309383.000
7	Bulkhead brace	3100357.023
8	Insulation, evap. cover	317797.001
9	Cover, evaporator	314885.002
10	Coil, condenser	3104621.002
11	Compressor asm. (Tecumseh RK1GOAT-024)	3104465.004
12	Cover, terminal	3103799.007
13	Gasket, terminal	3103800.003
14	Nut, terminal cover	306342.004
15	Overload	3100250.277
16	Coil, evaporator	3105060.010
17	Line, suction	3104627.009
18	Tube, capillary (2 req.)	3100245.343
19	Filter drier	3103882.001
20	Line, discharge	3103758.003
21	Fan blade	317937.000
22	Grommet, motor (4 req.)	3100230.022
23	Spacer, motor (4 req.)	308046.000
24	Nut, flange, motor (4 req.)	306342.003
25	Support, motor	3108700.067
26	Motor, fan	3108701.430
27	Bulkhead, condenser	317923.001
28	Foam blocks (7 req.)	3100587.009
29	Plate, compressor	3104109.008
30	Cover, elec. box	3100828.007
31	Gasket, 14 x 14	3100247.000
32	Channel, front	3102811.001
33	Plug, connection	314470.001
34	Sleeving, wire	318087.003
35	Insulation (3 piece set)	3104152.008
36	Blower inlet ring	309304.000
37	Wheel, blower	3104887.009
38	Start, capacitor	3100236.219
39	Bracket, base pan side (2 req.)	Not Used on this Model
40	Housing, weld, blower	3101145.005
41	Bulkhead, evaporator	3100831.050
42	Drain, pan	See Note 1
43	Bracket, mounting (3 req.)	See Note 1
44	Nut with mtg. clip (3 req.)	3100280.027
45	Brace, front	See Note 1
46	Pan, base (See Note 1)	3108700.323
47	Capacitor, fan (run)	3100248.420
48	PTCR device	3100876.006
49	Strain, relief	302994.012
50	Box, elec.	3100827.058
51	Sleeve, compressor (3 req.)	3100239.122
52	Grommet, compressor (3 req.)	3100238.207
53	Nut, flange, compressor (3 req.)	306342.002
54	Strain, relief	302994.017
60	Customer options	
	Air Distribution Box Kit (See page 7 - A-F)	3105023.000
	Electronic Control Kit (See page 8 - H)	
	Bi-Metal Relay Control Kit (See page 11 - L)	3104998.004

NOTE 1: Not Available as Individual Part

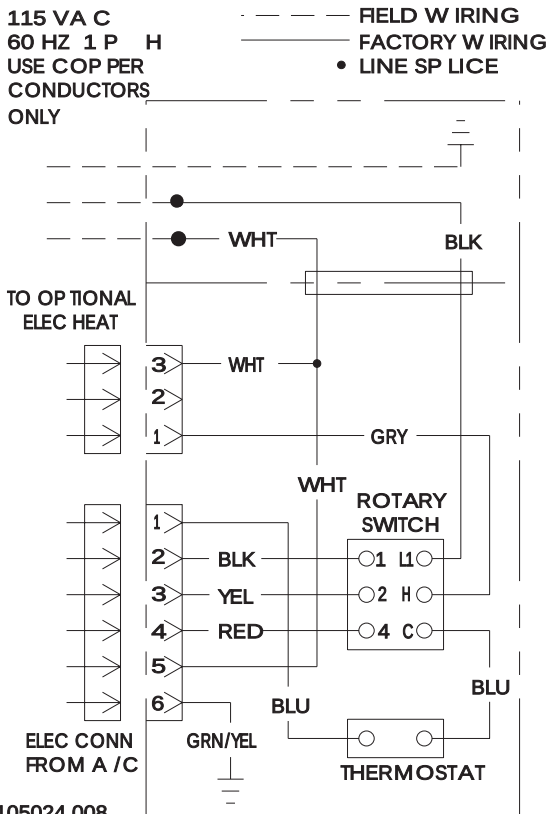
Order Base Pan Kit Number 3108700.323.
Kit includes Items 35, 39, 40, 41, 42, 43, 44, 45 & 46.

CUSTOMER OPTION

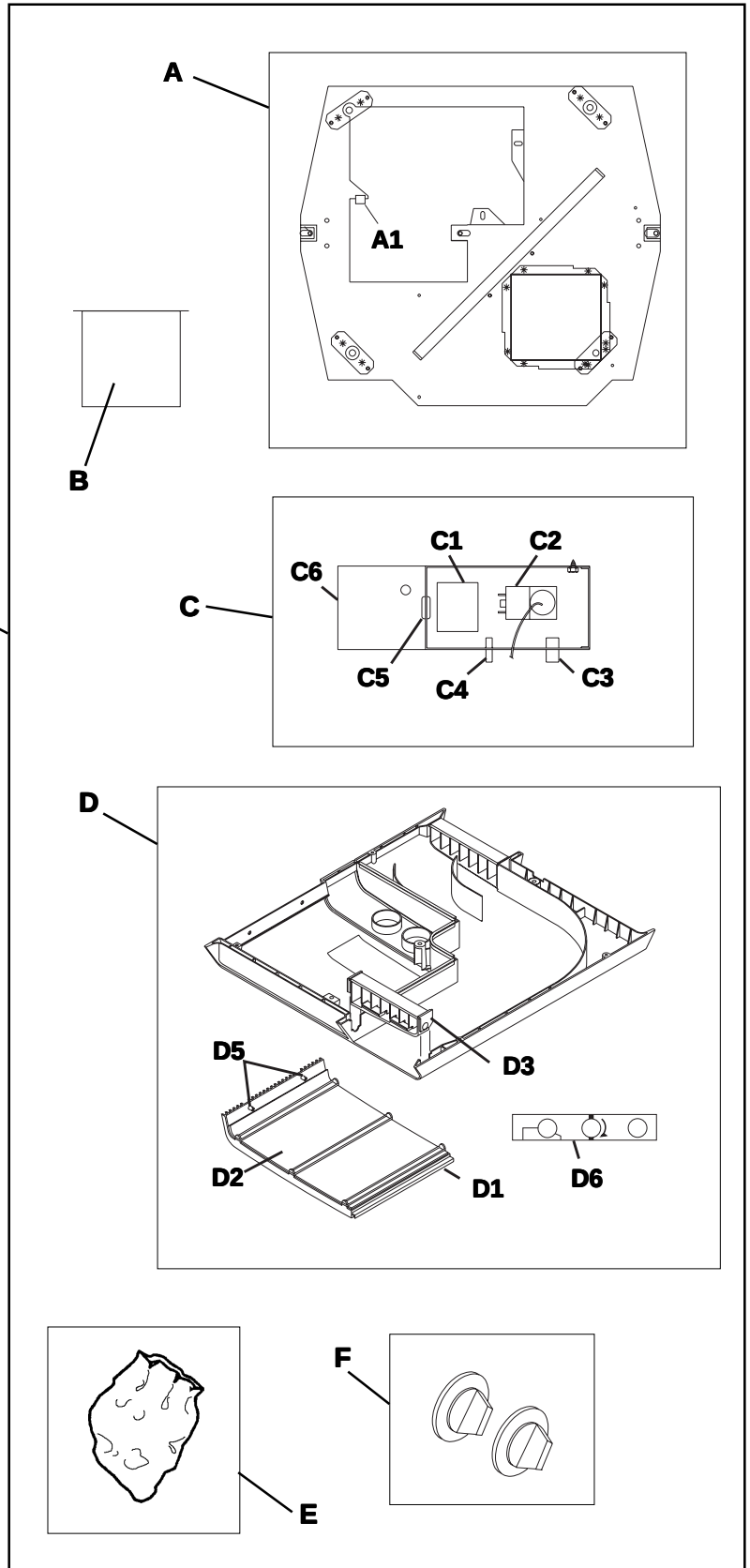
3105023.000 Air Box Asm. Complete A thru F

A THRU F

AIR BOX FIELD WIRING DIAGRAM



3105024.008

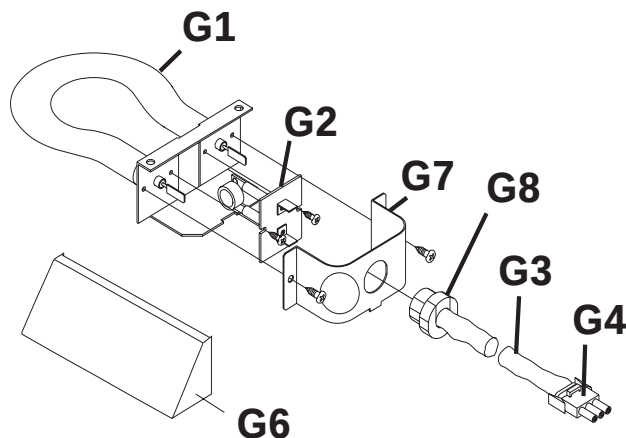


Customer Option - 3105023.000 Air Box Asm. Complete A thru F

Item	Description	Part No.
A	Template, ceiling	315427.001
	A1 Bushing, snap-in	301028.040
B	Extension, duct	313606.000
C	C1-C6 Box asm., control	3105026.003
	C1 Switch, rotary	20250.000
	C2 Thermostat	3100781.008
	C3 Cap, conn. housing (6- pole)	314471.001
	C4 Plug, female	314471.000
	C5 Strain, relief	302994.002
	C6 Weldment, junction box	3104161.017
D	D1-D6 Air box asm., heat/cool	3104234.004
	D1 Door, return air	3104071.000
	D2 Filter, return air	308166.000
	D3 Louvers (2 req.)	310138.000
	D4 Cover, plate (not shown)	See E4 Bag Asm. Parts
	D5 Push / pull latch (Set of 2)	3108700.307
	D6 Decal, air box	3104083.005
E	E1-E4 Bag asm., parts	3105043.008
	E1 Connector, cable (not shown)	20010.000
	E2 Bolt, mtg. (4 req.) not shown	3100375.058
	E3 Cover, jct. box (not shown)	313650.000
	E4 Cover, plate (not shown)	316659.000
F	F Knobs (2 req.)	3100364.011

Customer Option -- Heat Kit Used with Option 3105023.000 Air Box Asm.

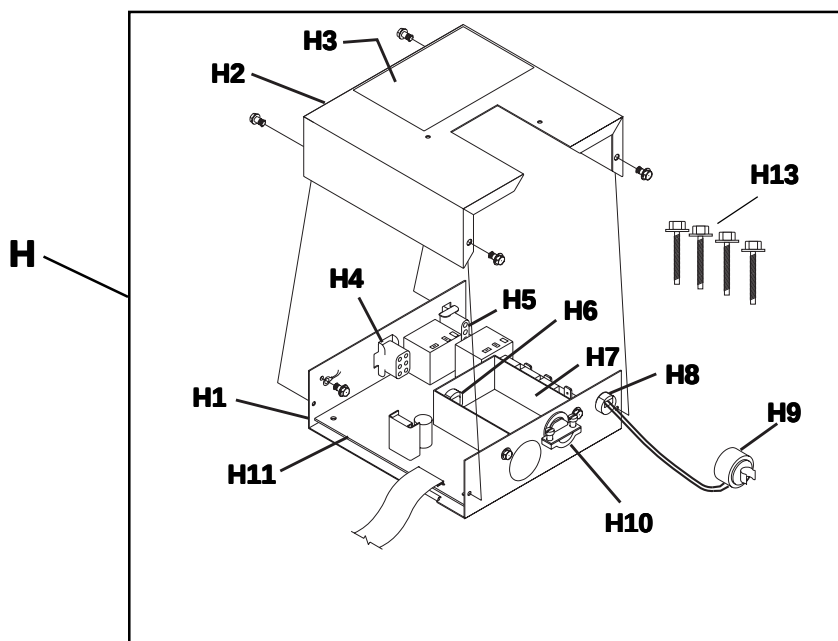
Item	Description	Part No.
G	G1-G8 Heat Kit complete	3101121.022
	G1 Element, heating	3104615.004
	G2 Switch, auto limit	3104613.009
	G3 Sleeving, fiberglass	3100394.083
	G4 Plug, male (3-pole)	314470.000
	G6 Guard, heat	3101143.000
	G7 Electric box	3101125.007
	G8 Strain, relief	302994.012



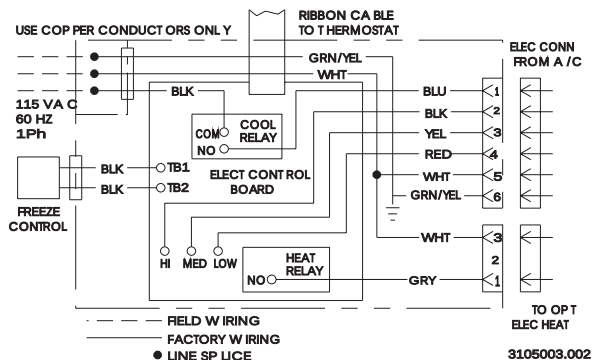
Customer Option

3104999.002 & 3104999.010 ELECTRONIC KIT with T-Stat H Thru K, & M

Item	Description	Part No.	Part No.
H H1-H13	Electronic Kit	3104999.002	3104999.010
H1	Box, main board	3104964.006	3104964.006
H2	Cover, man board box	3104965.003	3104965.003
H3	Decal, field wiring	3105003.002	3105003.002
H4	Connector asm. (6-pole)	3105001.006	3105001.006
H5	Connector asm.	3105002.004	3105002.004
H6	Strain, relief	302994.001	302994.001
H7	Box, junction	3104966.001	3104966.001
H8	Strain, relief	302994.002	302994.002
H9	Control, cold	3104996.008	3104996.008
H10	Connector, cable	20010.000	20010.000
H11	Board, cycle main	3104855.006	3104855.006
H12	Cover, junction box (not shown)	3104967.009	3104967.009
H13	Anchor Bolts, .25-20 x 8.00 (4)	3100375.066	3100375.066
H14	Thermostat asm.	See page 9 I	See page 9 I
J	Customer option (cable asm.)	See page 9 J	See page 9 J
K	Customer option (return air cover)	See page 10 K	See page 10 K



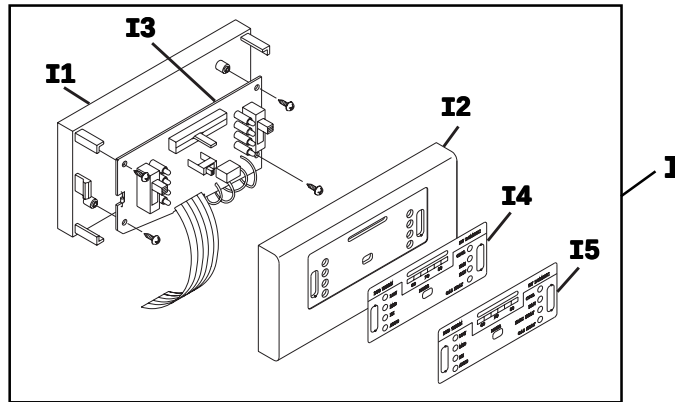
ELECTRONIC FIELD WIRING DIAGRAM



THERMOSTAT ASSEMBLY

Included with Electronic Kit #3104999.002

		3104999.002	3104999.010
Item	Description	Part No.	Part No.
I	I1-I5 Thermostat, complete	(See note 1)	(See note 2)
	I1 Base, thermostat	3103808.014	3103808.014
	I2 Cover, thermostat	3103809.020	3103809.038
	I3 Board, control	3108701.339	3108701.339
	I4 Decal, T-stat (clg./gas heat)	3105317.006	3105379.006
	I5 Decal, T-stat (clg./gas & elec. heat)	3105318.004	3105380.004



Note 1: Thermostat Assembly is not normally required. Order individual part. Thermostat complete is part number 3105325.009

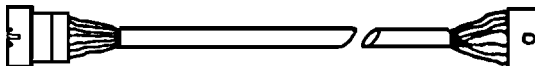
Note 2: Thermostat Assembly is not normally required. Order individual part. Thermostat complete is part number 3105375.004

Customer Option

Used with Electronic Kit 3104999.002 & 3104999.010

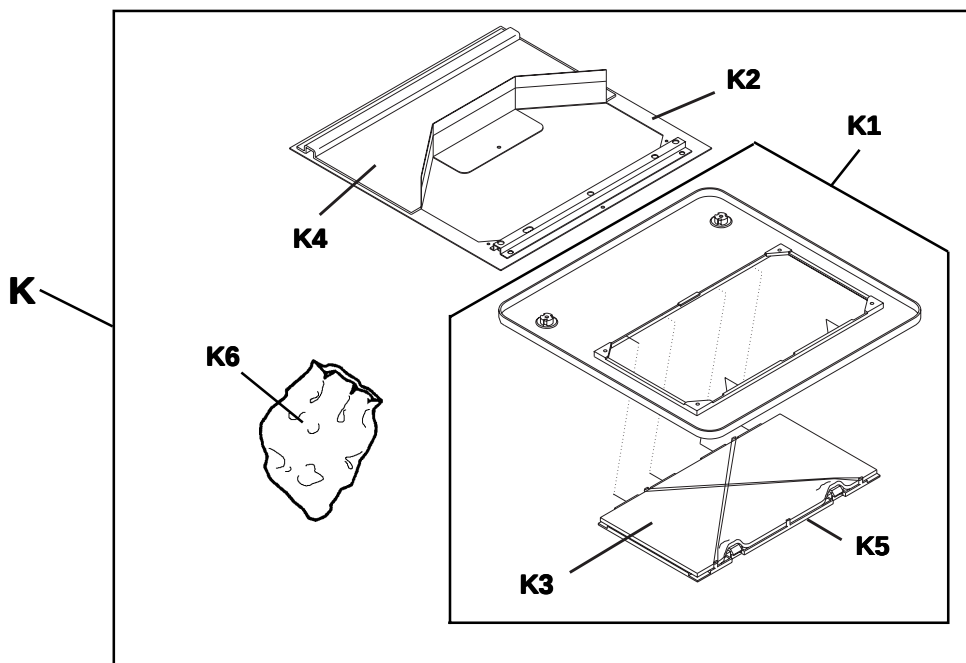
CABLE ASSEMBLY

Item	Description	Part No.
J	J1 Cable 15'	3101632.010
	J2 Cable 25'	3101632.028
	J3 Cable 30'	3101632.036



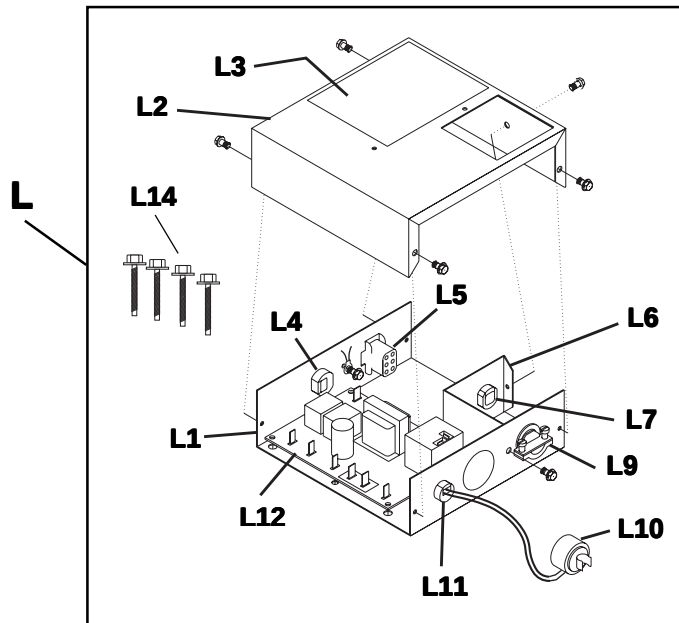
Customer Option -- Return Air Asm.
Used with Electronic Kit 3104999.002 / 3104999.010
& Bi-Metal Relay Kit 3104998.004

Item	Description	Part No.
K	K1-K6 Cover asm., return air comp. - SW	3105007.003
	Cover asm., return air comp. - PW	3105007.011
	Cover asm., return air comp. - Gry.	3105007.029
K1	Grill asm. - SW	3105148.005
	Grill asm. - PW	3105148.013
	Grill asm. - Gry.	3105148.021
K2	Template, ceiling	3108701.373
K3	Filter	3105012.003
K4	Insulation, foam	3105014.009
K5	Grill, return air - SW	3104928.001
	Grill, return air - PW	3104928.019
	Grill, return air - Gry.	3104928.027
K6	Parts bag	3108701.381

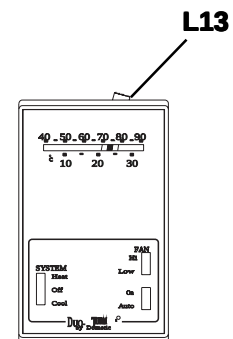
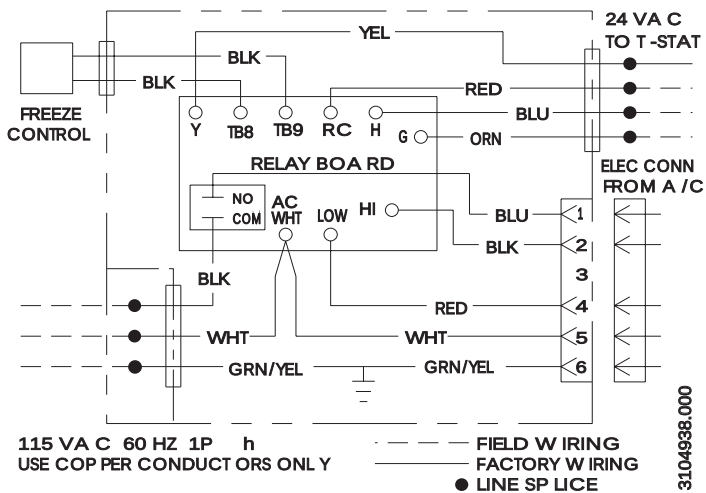


Customer Option 3104998.004 RELAY KIT

Item	Description	Part No.
L L1-L14	Relay, box	3104998.004
L1	Box, relay	3104932.003
L2	Cover, relay box	3104933.001
L3	Decal, field wiring	3104938.000
L4	Strain, relief	302994.006
L5	Connector, asm.	3104991.009
L6	Box, junction	3104934.009
L7	Strain, relief	302994.001
L8	Cover, junction box (Not shown)	3104935.006
L9	Connector, cable	20010.000
L10	Control, cold	3104996.008
L11	Strain, relief	302994.002
L12	Board, relay	3104757.004
L13	T-stat, Bi-Metal (heat/cool)	3105058.014
L14	Anchor bolts, .25-20 x 8.00 (4)	3100375.066
L15	Customer option (return air cover)	See page 10 K



RELAY KIT WIRING DIAGRAM



Customer Option

HEAT KIT

Item	Description	Part No.
M M1-M7	Heat Kit Complete	3105164.002
M1	Element, heat	3103778.001
M2	Switch, auto limit	3103785.006
M3	Plug, male (3-pole)	3104470.000
M4	Cover, heater term.	3103779.017
M5	Guard, heat element	3103821.001
M6	Sleeving, wire	3108087.004
M7	Strain, relief	302994.012

