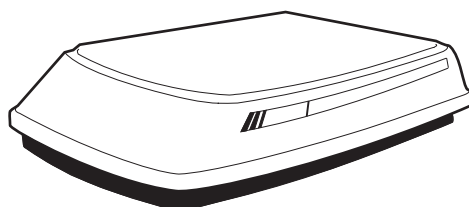


CAL SERIES

Roof Mount

Caravan Air Conditioner



CAL MODELS

With Optional Electric Heat

220/240 VAC, 50 HZ.

MODELS **CAL 61.501**
 CAL 136.303

Product Code 991640102
Product Code 991650422

PARTS LIST

MODELS
CAL61.501
CAL136.303 & C

REVISION

Form No. 3106098.050 8/98
(Replaces 3106098.043)
©1998 The Dometic Corporation
LaGrange, IN 46761

⚠ WARNING

This unit must be serviced an authorized serviceman.
Modification of this appliance can be extremely hazardous
and could lead to serious injury or death.

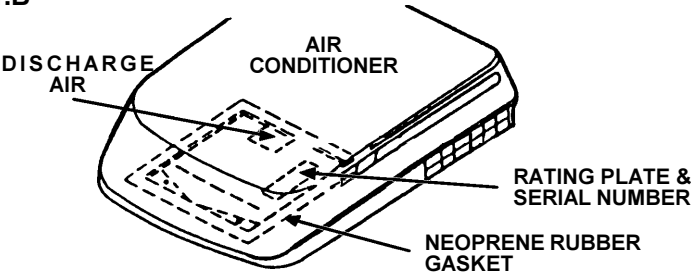
SPECIFICATIONS (FIG. 1.B)

ALPHABETICAL INDEX		
	Page	Index #
Air Box Complete	11	E-G
Heat Kit	12	H1-H10
Relay Kit	9	A1-A13
Relay Kit - Analog	14	M1-M18
Return Air Assembly	9	B1-B12
Roof Mount		
CAL61.501	5	1-55
CAL136.303	7	1-59
Wiring Diagrams	2,3	

MODEL NO.'s	CAL 136.303	CAL 61.501	ELECTRIC HEATER
Nominal Capacity (KW)	3.2	2.1	1.6
Electrical Rating	220—240V, 50 Hz., Ph. 1		
FL Amps (Comp/Motor)	4.9/0.8	3.4/0.8	6.3/0.8
LR Amps (Comp/Motor)	24/5	13/5	- - /5
Power (KW)	1.2	0.85	1.9
Min. Wire Size	Up to 8 meters, use 1mm ² Copper		
Circuit Protection	10 Amp Time Delay Fuse or 10 Amp Circuit Breaker		
Refrigerant			
R22	17.0 oz.	20.5 oz.	—
R407	16.5 oz.	—	—

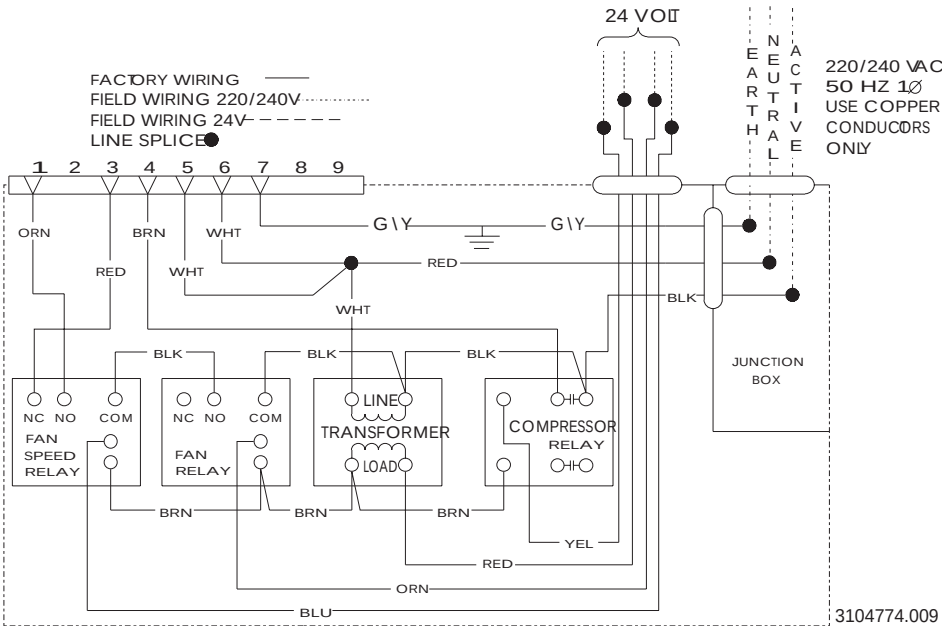
FIG. 1.B

** The Manufacturer gives only general guidelines for Generator requirements. These Generator requirements come from experiences consumers have with our equipment in field applications. When sizing Generators, the total electrical power consumption of the Caravan must be considered. Keep in mind that Generators lose power because of altitude increases above sea level, high outside temperatures, and lack of maintenance.

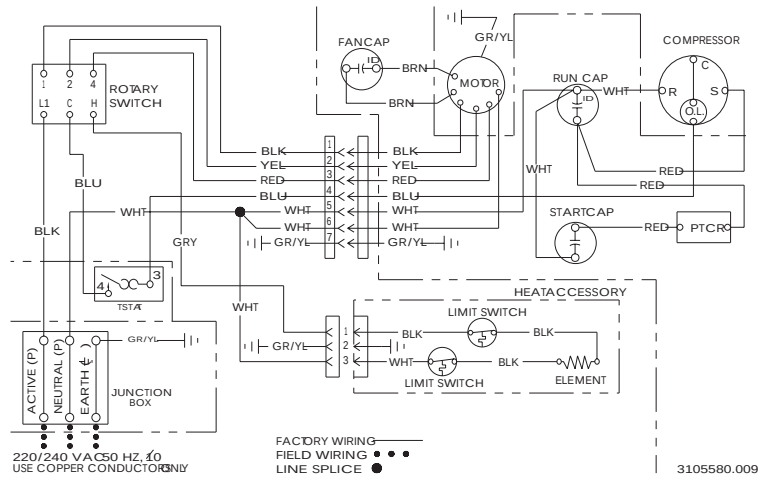


** Normal Min.	1 Unit	3.5 KW
Generator Size	2 Units	5.0 KW

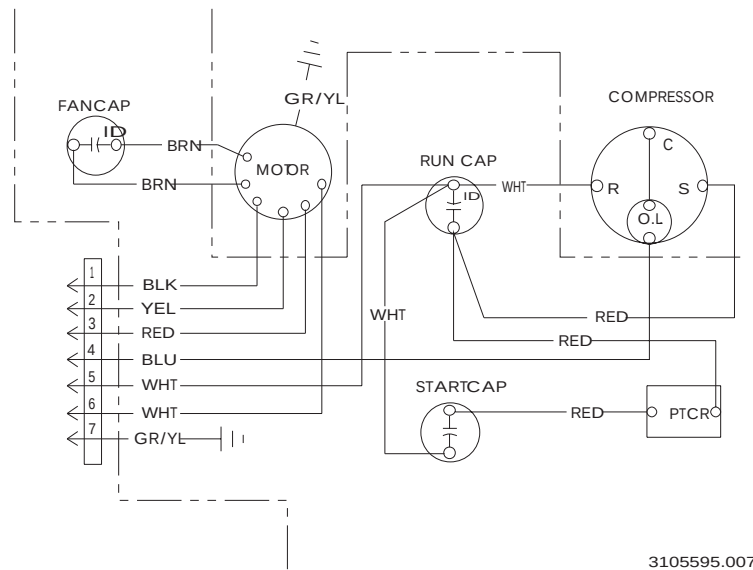
WIRING DIAGRAM
FOR 3104765.007 RELAY KIT



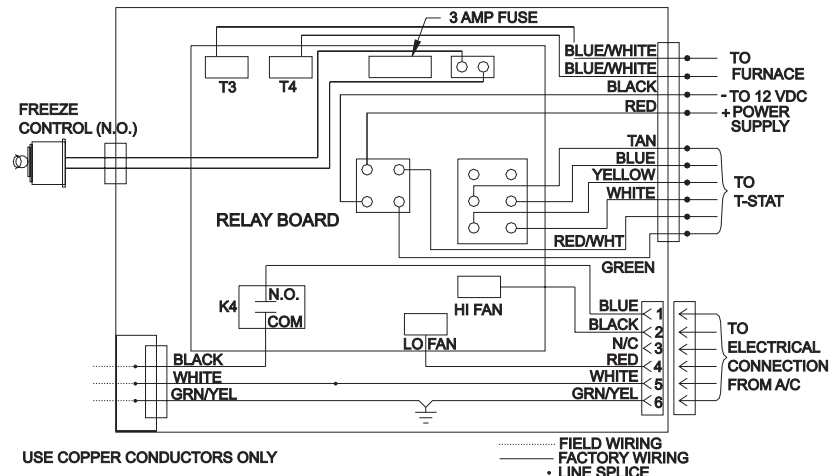
WIRING DIAGRAM **FOR MODELS CAL 61.501 & CAL 136.303** **With 3100292.071 & 3100292.089 Air Box Assembly**



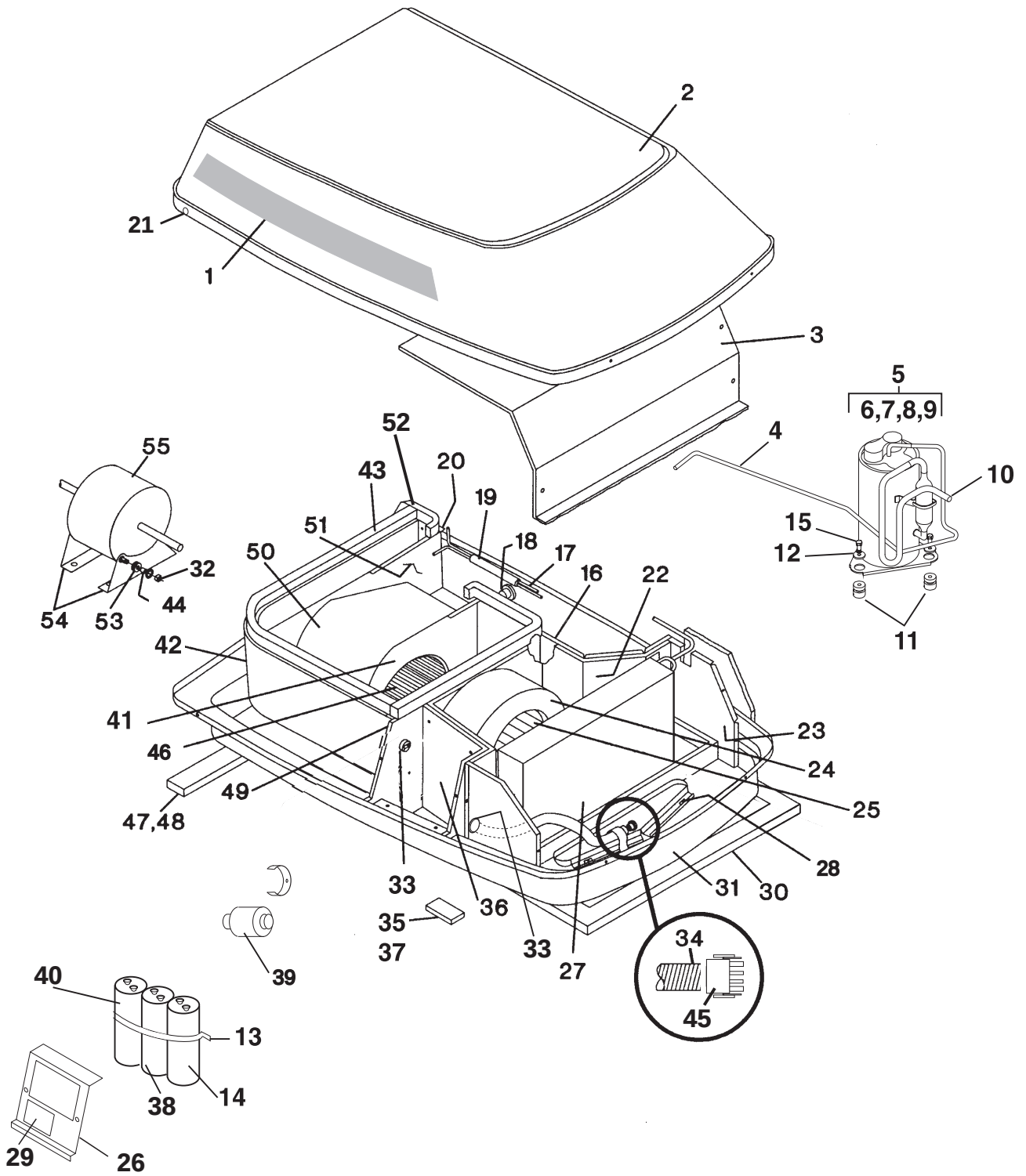
WIRING DIAGRAM FOR ROOM MOUNT ASSEMBLY **FOR MODELS CAL 61.501 & CAL 136.303**



WIRING DIAGRAM FOR 3108255.05



CAL 61.501 AIR CONDITIONER ASSEMBLY



CAL 61.501 AIR CONDITIONER ASSEMBLY

Index #	Description	CAL61.501 Part No.	Index #	Description	CAL 61.501 Part No.
1	Decal (2 req.)	3104799.006	29	Decal, field wiring	3105595.007
2	Shroud	3105591.006	30	Gasket 14 x 14	3100247.000
3	Evap. cover w/insulation	3102514.803	31	Base pan	3103179.028
4	Line discharge	3105601.003	32	Nut, flange #8-32 (4 req.)	306342.003
5	Compressor, complete	3105578.003	33	Strain relief (2 req.)	302994.011
6	Cover, terminal	3105581.007	34	Sleeve, wire	318087.009
7	Gasket, terminal	3102549.007	35	Foam block (2 req.)	3100587.009
8	Overload	3100250.319	36	Bulkhead, electric box	3102532.029
9	Nut, Terminal	3102550.005	37	Insulation, bottom, blower housing	3100294.002
10	Line, suction	3105599.009	38	Capacitor, 20 mfd	3100956.014
11	Grommet (3 req.)	3100238.215	39	PTCR device	3100876.006
12	Washer (3 req.)	309513.015	40	Capacitor, start	3100236.219
13	Strap, capacitor (2 req.)	317188.000	41	Blower, side front	3100259.005
14	Capacitor (8 mfd)	3100956.022	42	Coil, condenser	3101467.003
15	Screw, M .25-20x .7 (3 req.)	312110.024	43	Foam tape, 1-1/4 x 1-1/4 (34" req.)	3102669.029
16	Bulkhead, compressor	3102511.049	44	Spacer, mounting (4 req.)	308046.000
17	Capillary tubes	3100245.046	45	Plug, male 9-pole	314470.003
18	Bushing, snap-in	301028.037	46	Wheel, blower condenser	3100386.006
19	Filter-drier	3103882.001	47	Gasket 16 x 1.5" (2 req.)	3100286.016
20	Close-off plate	3100256.001	48	Gasket 10 x 1.5"	3100286.032
21	Screw, shroud (4 req.)	313685.002	49	Bulkhead, evaporator	3100254.048
22	Insulation, evaporator bulkhead	3102516.022	50	Blower scroll	3100260.003
23	Plate, evaporator close-off (Split & use 1 each side)	3102512.021	51	Blower, side rear	3100261.001
24	Blower housing	3100300.007	52	Foam tape 1-1/4 x 3/4" (66" req.)	3102669.045
25	Wheel, evaporator, plastic	3100385.008	53	Grommet, motor (4 req.)	3100230.022
26	Cover, electrical box	3102510.009	54	Bracket, motor (2 req.)	3100258.007
27	Coil, evaporator	3105582.005	55	Motor	3106068.004
28	Bracket, front mounting	3105495.000			

CUSTOMER OPTION

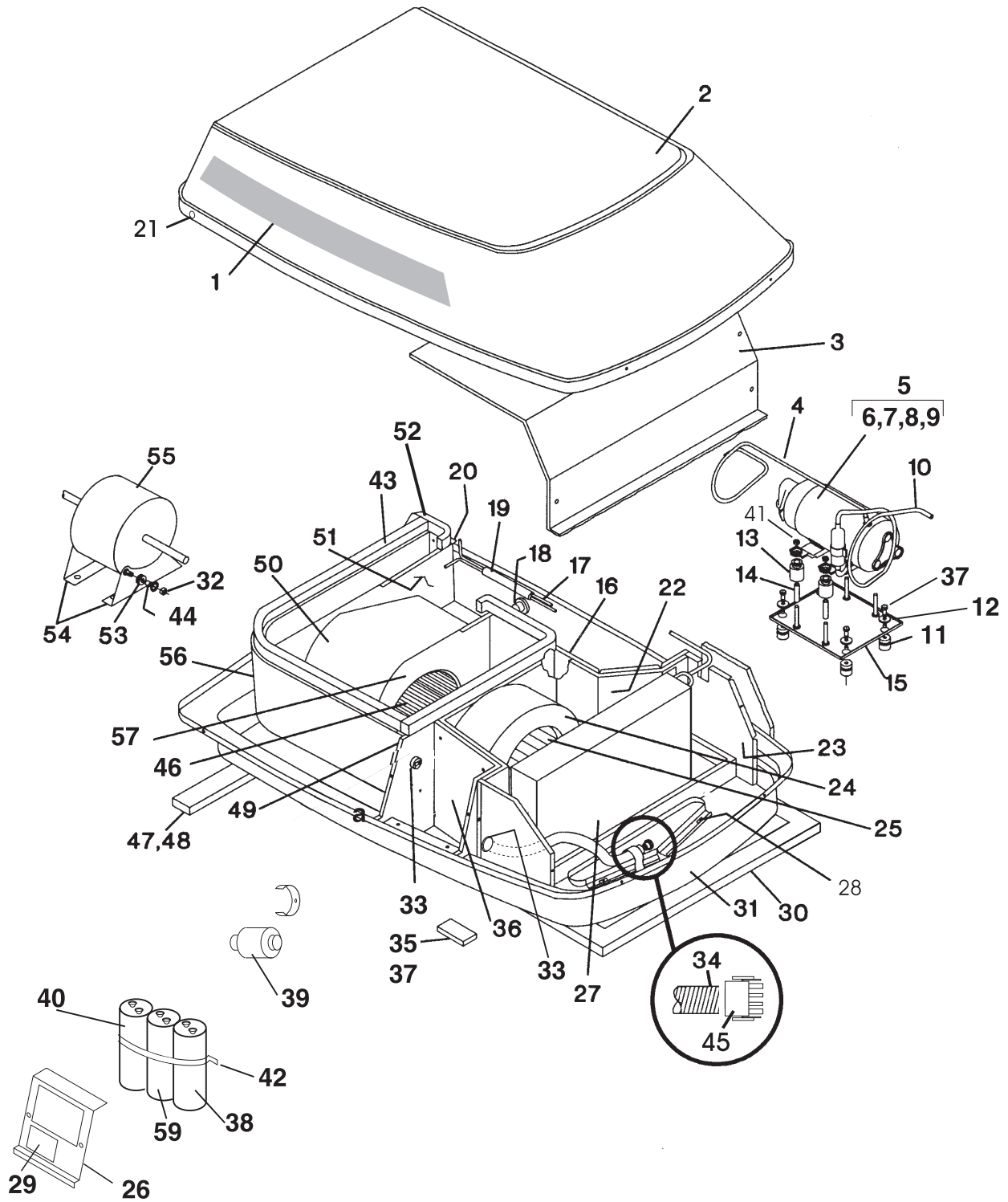
A	3104765.007	Relay Kit	(See Breakdown on Page 9)
B	3100292.089	Air Box Asm. , Polar White, with heat	*(See NOTE 1, Page 11)
C	3100292.071	Air Box Asm., Shell White	*(See NOTE 1, Page 11)
L	3108255.005	Relay Kit	(See Breakdown on Page 13)

CUSTOMER OPTION – NOT REQUIRED

H	3104794.007	Heat Kit	*(See NOTE 1, Page 11)
J	318556.000	Duct Extension	
K	3100895.006	Bolt Kit 6" – 9"	

See individual Parts List for each Option.

CAL 136.303 AIR CONDITIONER ASSEMBLY



CAL 136.303 AIR CONDITIONER ASSEMBLY

Index #	Description	CAL 136.303 Part No.	Index #	Description	CAL 136.303 Part No.
1	Decal (2 req.)	3104799.014	30	Gasket, mounting 14 x 14	3100247.000
2	Shroud	See NOTE 1	31	Base pan	3103179.010
3	Evap. cover w/insulation	3102514.803	32	Nut, flange (#8-32)(4 req.)	306342.003
4	Line discharge	3104306.000	33	Strain relief (2 req.)	302994.011
5	Compressor, Sanyo	3102790.007	34	Sleeve, wire	318087.009
6	Cover, terminal	3102321.001	35	Foam block (2 req.)	3100587.009
7	Gasket, terminal	3102320.003	36	Bulkhead, electric box	3102532.029
8	Overload	3100250.210	37	Screw .25-20x .7 (4 req.)	312110.024
9	Nut, Terminal	306342.005	38	Capacitor	3100248.396
10	Line, suction	3102986.001	39	PTCR device	3100876.006
11	Grommet, mounting plate (4 req.)	3102324.005	40	Capacitor, start	3100236.219
12	Washer, flat (4 req.)	309513.015	41	Nut, flange (4 req.)	306342.002
13	Grommet, compressor (4 req.)	3100238.181	42	Strap, capacitor (2 req.)	317188.000
14	Sleeve, compressor (4 req.)	3100239.114	43	Foam tape 1-1/4" x 1-1/4" (34" req.)	3102669.029
15	Plate, compressor mounting	3102590.035	44	Spacer, motor mounting (4 req.)	308046.000
16	Bulkhead, compressor	3102511.049	45	Plug, male (9-pole)	314470.003
17	Capillary tubes (2 req.)	3100245.392	46	Wheel, condenser blower	3100386.006
18	Bushing, snap-in	301028.037	47	Gasket, 16 x 1.5" (2 req.)	3100286.016
19	Filter-drier	3103882.001	48	Gasket, 10 x 1.5	3100286.032
20	Close-off plate	3100256.001	49	Bulkhead, evaporator	3100254.048
21	Screw, shroud (4 req.)	313685.002	50	Blower scroll	3100260.003
22	Insulation, evaporator bulkhead	3102516.022	51	Blower side, rear	3100261.001
23	Plate, evap. close-off (Split and use 1 each side)	3102512.021	52	Foam tape 1-1/4 x 3/4" (66" req.)	3102669.045
24	Blower housing	3100300.007	53	Grommet, motor (4 req.)	3100230.022
25	Wheel, evaporator plastic	3100385.008	54	Bracket, motor mounting (2 req.)	3100258.007
26	Cover, electric box	3102510.009	55	Motor	3106068.004
27	Coil, evaporator	3104573.005	56	Coil, condenser	3101467.003
28	Bracket, front, mounting	3105495.000	57	Blower side, front	3100259.005
29	Decal, field wiring	3105595.007	58 *	Insulation, bottom blower housing	3100294.002
			59	Capacitor, fan (7.5 mfd)	3100248.222

* Not Shown

Note 1:	Shroud Part No.	
	No Suffix Letter	Shell White 3107746.004
	With Suffix Letter C	Polar White 3107746.012

CUSTOMER OPTION

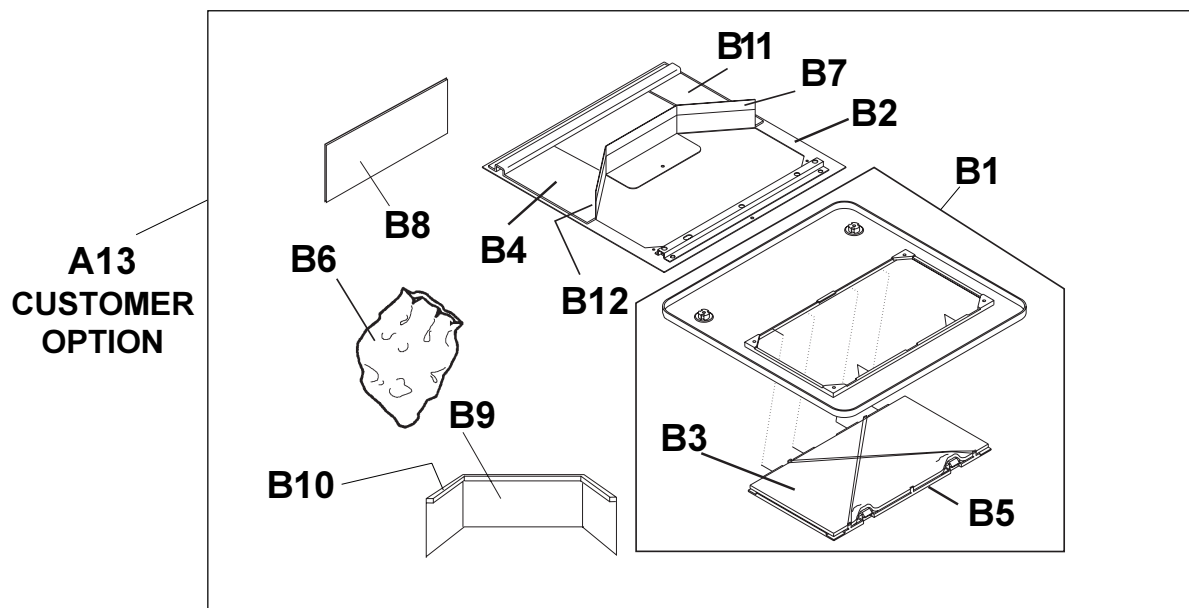
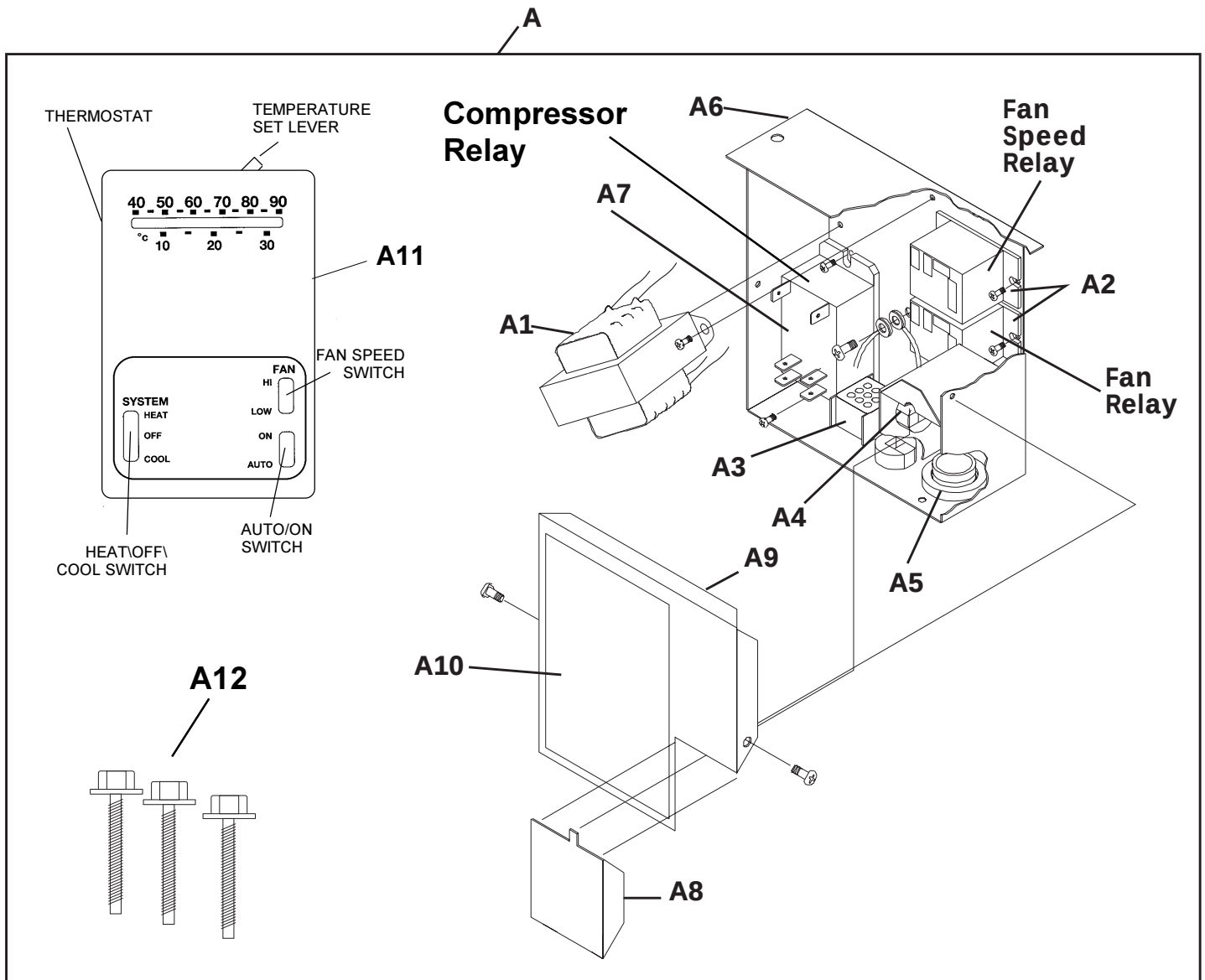
A	3104765.007	Relay Kit	(See Breakdown on Page 9)
B	3100292.071	Air Box Asm., Shell White	*(See NOTE 1, Page 11)
	3100292.113	Air Box Asm., Polar White	*(See NOTE 1, Page 11)
C	3100292.089	Air Box Asm., Polar White with heat	*(See NOTE 1, Page 11)
	3100292.105	Air Box Asm., Shell White with heat	*(See NOTE 1, Page 11)
L	3108255.005	Relay Kit	(See Breakdown on Page 13)

CUSTOMER OPTION – NOT REQUIRED

H	3104794.007	Heat Kit	*(See NOTE 1, Page 11)
J	318556.000	Duct Extension	
K	3100895.006	Bolt Kit 6" – 9"	

See individual Parts List for each Option.

A CUSTOMER OPTION 3104765.007 RELAY KIT (A1-A13)



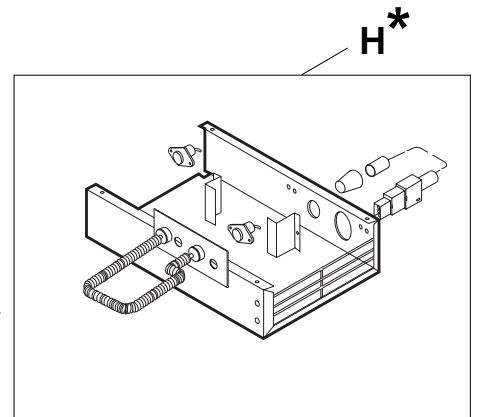
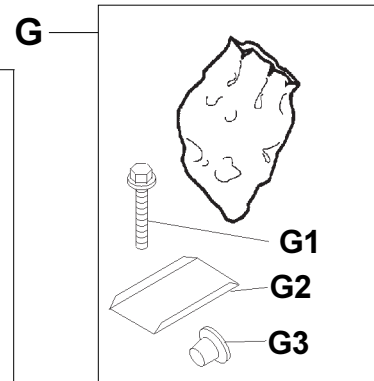
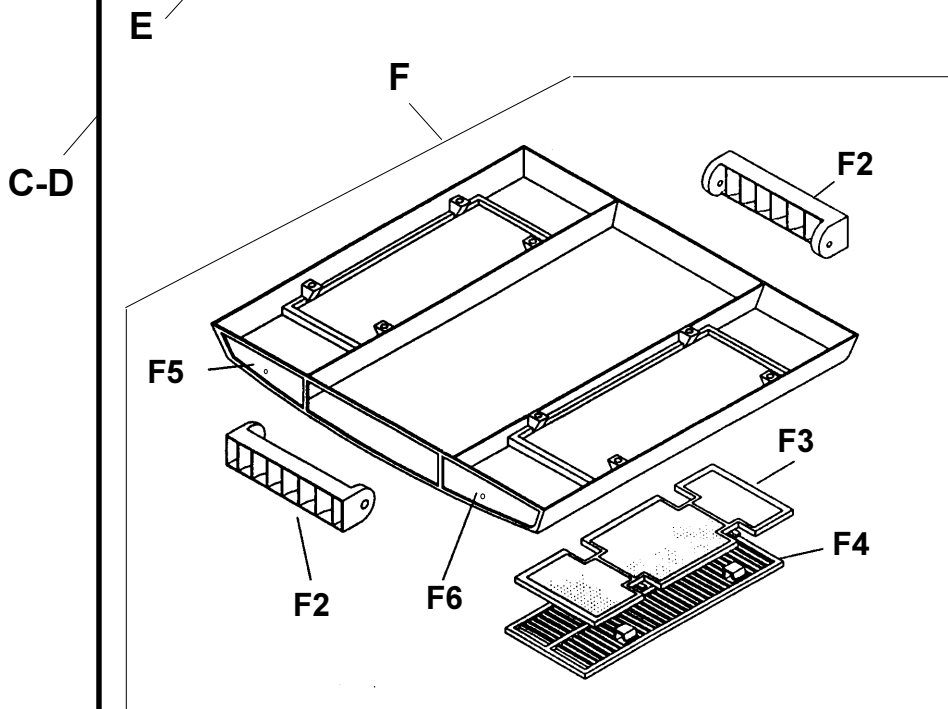
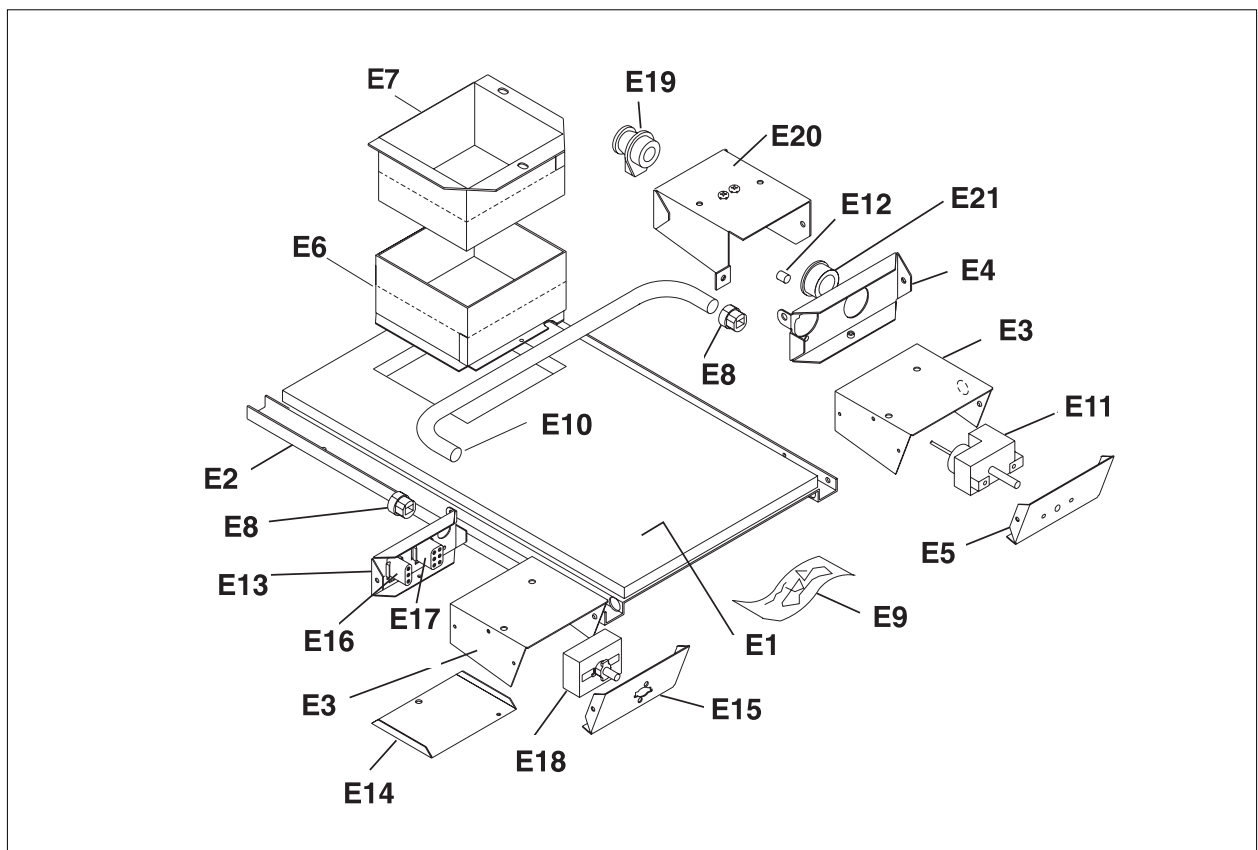
**A CUSTOMER OPTION – 3104765.007 RELAY KIT
(A1–A13)**

A1	Transformer	3104096.007	
A2	Relay, SPDT Fan (2 req.)	3104766.005	
A3	Plug, female (9-pole)	314471.003	
A4	Strain relief (2 req.)	302994.006	
A5	Connector cable	20010.000	
A6	Box, electric	3104769.009	
A7	Relay, compressor	3104446.004	
A8	Cover, junction box	3104771.005	
A9	Cover, electric box	3104773.001	
A10	Decal, field wiring	3104774.009	
A11	Thermostat	3104775.014	
A12	Bolt, mounting (3 req.)	3100375.041	
A13	Customer Option		
	3105007.003** Cover kit, return air	Shell White	
	3105007.011** Cover kit, return air	Polar White	
	3105007.029** Cover kit, return air	Gray	
	3105935.005** Cover kit, return air	Shell White	
	3105935.013** Cover kit, return air	Polar White	
		<u>3105007.(XXX)**</u>	<u>3105935.(XXX)**</u>
B1	Grill asm., Shell White	3105148.005	3105958.007
	Grill asm., Polar White	3105148.013	3105958.015
	Grill asm., Gray	3105148.021	— — —
B2	Template, ceiling	3105000.008	3105000.016
B3	Filter	3105012.003	3105012.003
B4	Insulation, foam	3105010.007	3105946.002
B5	Grill, return air (SW)	3104928.001	3104928.001
	Grill, return air (PW)	3104928.019	3104928.019
	Grill, return air (GRY)	3104928.027	— — —
B6	Parts bag	3108701.381	3108701.381
B7	Double sided tape (16")	3105154.003	3105154.003
B8	Insulation	3105014.009	3105014.009
B9	Divider	3105009.009	3105009.009
B10	Foam tape (16" req)	306168.000	306168.000
B11	Insulation (LH)	— — —	3105946.010
B12	Insulation	3105014.017	3105014.017

**** Replace (XXX) with suffix number listed under Index A13.**

CUSTOMER OPTION

- C** 3100292.089 & 3100292.105 AIR BOX, COMPLETE with Heat (E-H*)
D 3100292.071 & 3100292.113 AIR BOX, COMPLETE [Heat Pkg. Opt (E-H*)]



***NOTE 1:** 3104794.007 Electric Heat is included with 3100292.089 & 3100292.105 air box asm., and can be **ADDED** as a customer option to 3100292.071 & 3100292.113 air box asm.

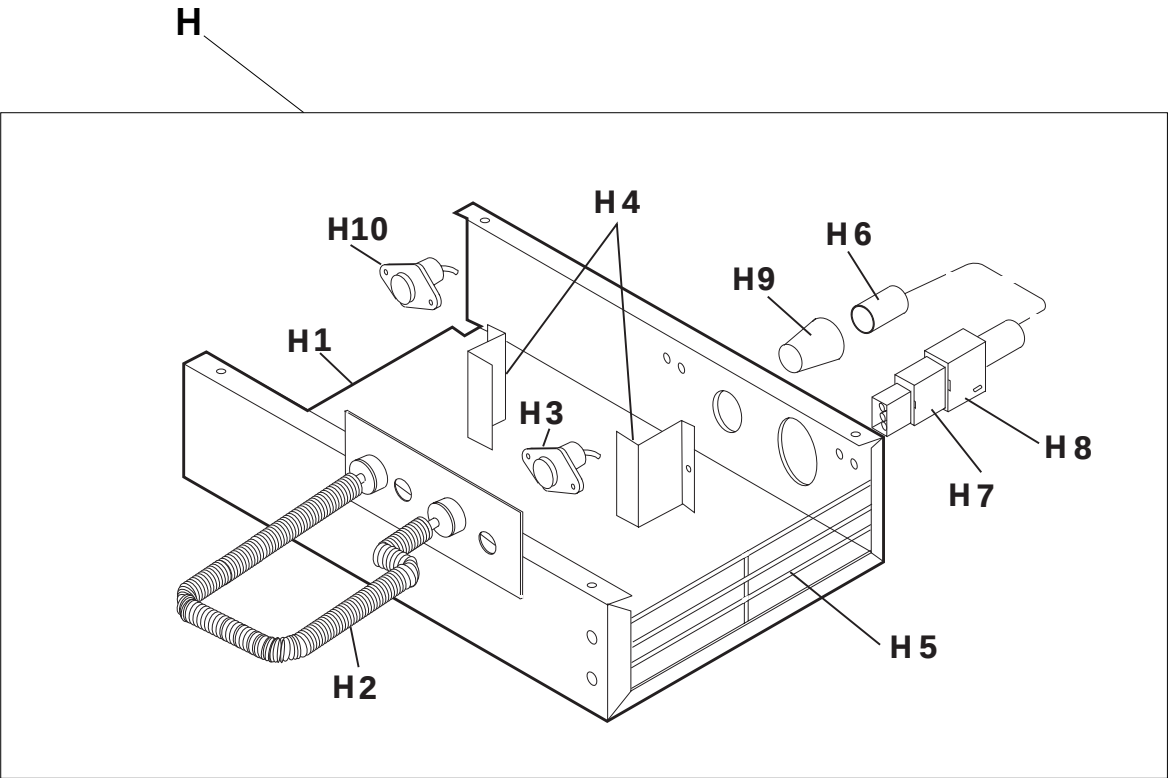
CUSTOMER OPTION

C	Air Box Complete with Heat	E-H *See NOTE 1	3100292.089
	Air Box Complete with Heat	E-H *See NOTE 1	3100292.105
D	Air Box Complete	E-G (Option H* See NOTE 1)	3100292.071
	Air Box Complete	E-G (Option H* See NOTE 1)	3100292.113
E		<u>3100292.071, 3100292.113</u>	<u>3100292.089, 3100292.105</u>
	Template, ceiling D1-D21	318716.014	318716.014
	E1 Insulation	3100287.006	3100287.006
	E2 Template, ceiling	3100265.028	3100265.028
	E3 Box, junction	3100275.001	3100275.001
	E4 Box, back (RH)	3100279.011	3100279.011
	E5 Box, front (RH)	3100277.031	3100277.031
	E6 Duct, ext. lower	3100342.017	3100342.017
	E7 Duct, ext. upper	3100262.009	3100262.009
	E8 Strain relief (2 req.)	302994.017	302994.017
	E9 Decal, field wiring	3105580.009	3105580.009
	E10 Sleeve, wire	318087.003	318087.003
	E11 Thermostat	3100781.008	3100781.008
	E12 Bushing, snap-in	301028.040	301028.040
	E13 Box, back (LH)	3100299.019	3100299.019
	E14 Cover, junction box	3100278.013	3100278.013
	E15 Box, front (LH)	3105271.005	3105271.005
	E16 Plug, female	314471.000	314471.000
	E17 Plug, female (9-pole)	314471.003	314471.003
	E18 Switch (8-position)	20250.000	20250.000
	E19 Strain relief	3100492.002	3100492.002
	E20 Box, junction	3100231.012	3100231.012
	E21 Bushing, snap-in	301028.025	301028.025
F	Air Box Only (F2-F6) Polar White	3100288.061	3100288.061
	Air Box Only (F2-F6) Shell White	3100288.087	3100288.087
	F2 Louvers (2 req.)	3100289.002	3100289.002
	F3 Filter (2 req.)	3100281.009	3100281.009
	F4 Grill, return air (2 req.)	3100270.002	3100270.002
	F5 Decal, switch	3105624.005	3105624.006
	F6 Decal, thermostat	3100406.002	3100406.002
G	Parts Bag (G1-G3)	3101582.009	3101582.009
	G1 Bolt, mounting 1/4-20	3100375.025	3100375.025
	G2 Cover, junction box	3100232.002	3100232.002
	G3 Knob (2 req.)	3106121.001	3106121.001
H	Heat Kit (H1-H10, Page 12)	3104794.007 *	3104794.007 *

***NOTE 1: 3104794.007 Electric Heat is included with 3100292.089 & 3100292.105 air box asm., and can be ADDED as a customer option to 3100292.071 & 3100292.113 air box asm.**

H 3104794.007 HEAT KIT (H1–H10)

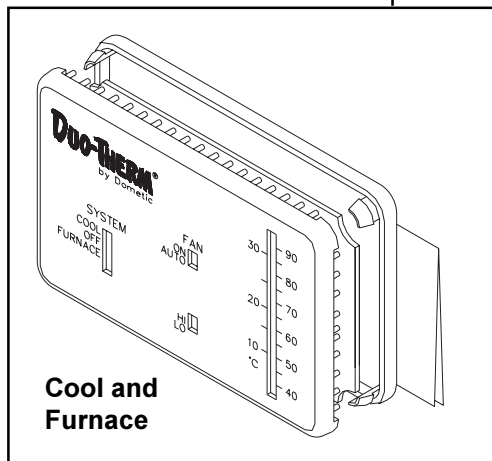
Index #	Description	Part No.
H1	Shield, heat	3100264.005
H2	Element, heat	Order Complete Kit
H3	Limit switch	3100962.020
H4	Bracket, mtg. (2 req.)	3106089.000
H5	Grill	3100378.003
H6	Sleeving, wire	318087.004
H7	Plug, male (3-pole)	314470.000
H8	Strain relief (2 req.)	3100486.012
H9	Strain relief	302994.011
H10	Switch, manual limit	3100962.012



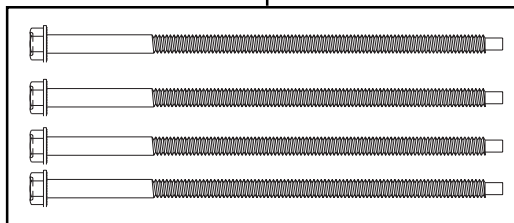
***NOTE 1: 3104794.007 Electric Heat is included with 3100292.089 & 3100292.105 air box asm., and can be ADDED as a customer option to 3100292.071 & 3100292.113 air box asm.**

L 3108255.005 ANALOG THERMOSTAT KIT (L1-L5)

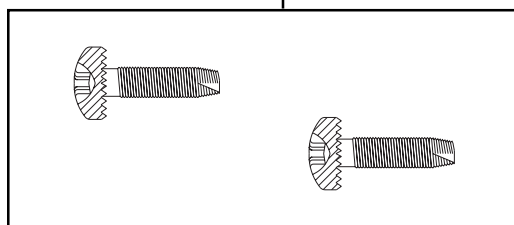
L1



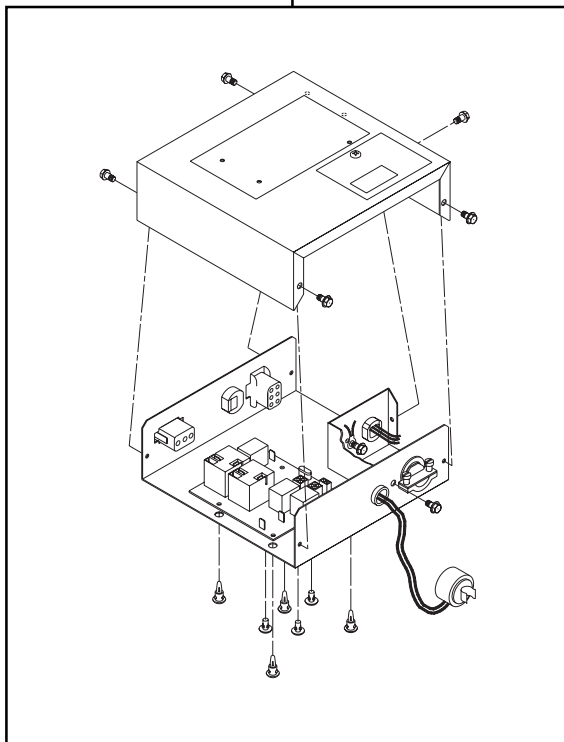
L2



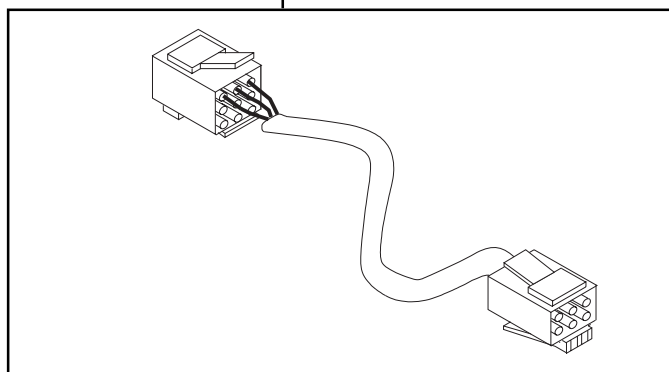
L3



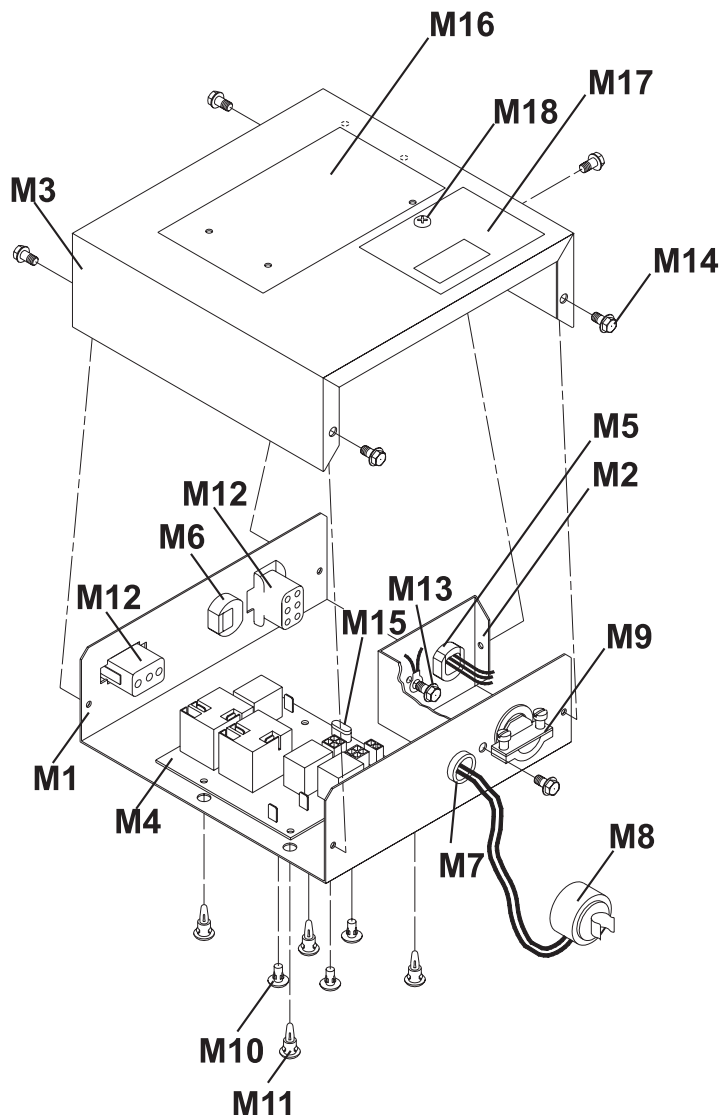
L4



L5



Index #	Description	Part No.
L	Control Kit, Analog	3108255.005
L1	Thermostat, Analog	3106995.032
L2	Screw, M1/4-20 x 8" (4 req.)	3106756.020
L3	Screw, 10-24 x .50" (2 req.)	312194.002
L4	Relay Board Kit (See Page 14 for M1-M18)	3106997.004
L5	Cable, Adapter	3108217.005



Kit, Board Relay

Item No.	Description	Part No.
M	Relay, Board kit	3106997.004
M1	Box, relay	3107153.003
M2	Box, junction	3106497.005
M3	Cover, A/C control	3106499.001
M4	Board, relay	3106996.022
M5	Relief, strain	302994.001
M6	Relief, strain	302994.006
M7	Bushing, snap-in	301028.042
M8	Switch, low temperature	3106480.001
M9	Connector, cable	20010.000
M10	Support, PC board	3101623.019
M11	Stand-off, PC board	3101624.017
M12	Connector asm.	3107155.008
M13	Screw, T-8-32 x .38	312237.012
M14	Screw, T-8-32 x .38	307987.007
M15	Element, fuse 3 amp	3106592.003
M16	Decal, wiring	3107750.006
M17	Cover, junction	3106498.003
M18	Screw, T-10-24 x .50	312194.002