

Duo-THERMTM

by Dometic

Part No. 3106481.009 Electronic Control Kit USED WITH

Roof Top Air Conditioners & Heat Pumps

630 Series PENGUIN

600 Series PENGUIN

579 Series BRISK AIR

595 Series QUICK COOL

591 Series HEAT PUMP

USA
SERVICE OFFICE
The Dometic Corp.
509 So. Poplar St.
LaGrange, IN 46761
(219) 463-4858

CANADA
Dometic Dist.
866 Langs Dr.
Cambridge, Ontario
CANADA N3H 2N7
(519) 653-4390

**For Service Center
Assistance Call:**
800-544-4881

THIS UNIT IS DESIGNED FOR OEM INSTALLATION
ALL INITIAL INSTALLATIONS MUST BE APPROVED BY THE DOMETIC CORP.



**UNDERWRITERS
LABORATORIES**
LISTED INC. ®
637G



! WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer or service agency.

! AVERTISSEMENT

Une mauvaise installation, de mauvais réglages, modifications ou opérations d'entretien peuvent endommager les biens ou même blesser. Se reporter à la notice. Pour obtenir de l'aide ou des renseignements complémentaires, consulter un installateur qualifié ou une agence de service après-vente.

PARTS LIST

**Part No.
3106481.009
Electronic
Control Kit**

REVISION

Form No. 3106813.011 8/99
(Replaces 3106813.003)
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LaGrange, IN 46761

SPECIFICATIONS

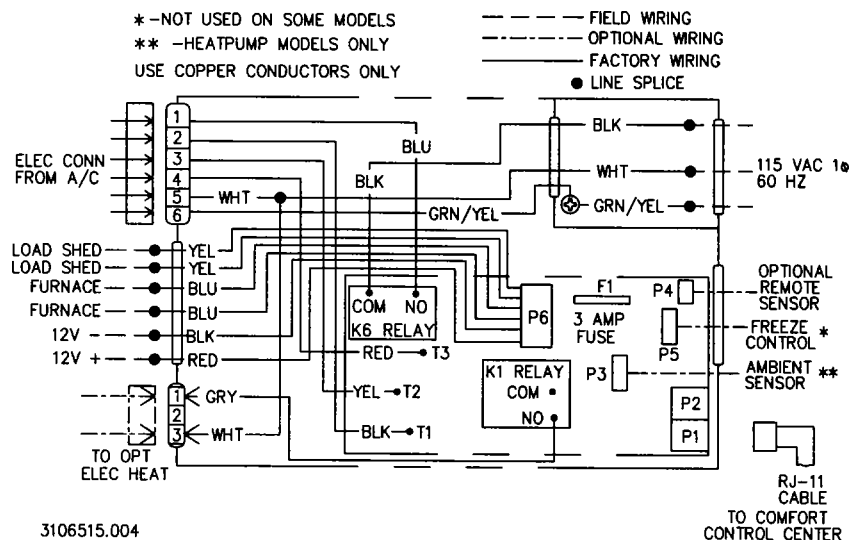
MODEL NO.	57908 .521	57912 .621	57915 .421 .426	57915 .521 .526	57915 .621 .626	59516 .501 .506 .601 .606	59136 .521	600312 .321	600312 .421	600315 .321	600315 .421	630035 .421
Nominal Capacity (BTU/HR) *	7,100	11,000	13,500	13,500	13,500	15,000	15,000	11,000	11,000	13,500	13,500	13,500
Electrical Rating	115 VAC, 60 Hz, 1 ph.											
Compressor Rated Load Amps	6.6	8.5	11.5	12.1	11.0	12.9	12.9	9.5	10.7	12.4	11.5	11.5
Fan Motor Rated Load Amps	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.1	3.1	3.1	3.1	3.1
Compressor Locked Rotor Amps	34.0	48.3	50.0	59.0	54.4	71.0	71.0	53.0	50.0	60.0	50.0	50.0
Fan Motor Locked Rotor Amps	5.8	5.8	5.8	5.8	5.8	6.0	6.0	8.8	8.8	8.8	8.8	8.8
Heater Amps/Watts @ 120VAC	NOT AVAILABLE ON THESE MODELS					2.7/1530	NOT AVAILABLE ON THESE MODELS					
SCFM-High Speed Max./Min.	325 / 250					350/250			335/250			
Total Static - Min/Max.	0.55 / 0.90" W.C.					0.40/1.10			0.12/0.65" W.C.			.4/1.1
Refrigerant R22 Charge (Oz.)	17.0	16.0	13.5	16.0	16.0	31.0	34.5	16.5	16.0	15.5	17.0	19.5
Minimum Wire Size **	12 AWG Copper Up to 24 ft.											
AC Circuit Protection	20 Amp Time Delay Fuse or 20 Amp HACR Circuit Breaker											
DC Circuit Protection	Installation must comply with all National, State, Providence, and/or local Electrical Codes											
Installed Weight (Pounds)	75	94	100	94	94	102	105	95	101	96	102	102
Minimum Generator Size ***	1 Unit	2.5 KW		3.5 KW				2.5 KW		3.5 KW		
	2 Units	4.0 KW		5.0 KW				4.0 KW		5.0 KW		

* Maximum unit performance achieved at full rated voltage.

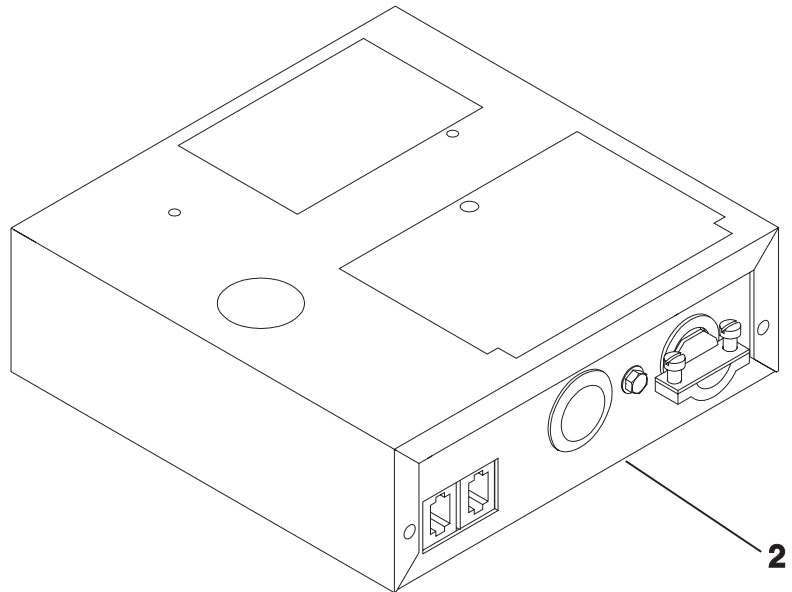
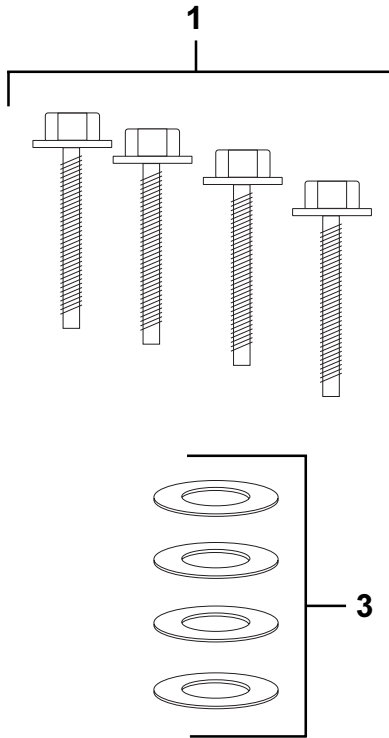
** For distances over 24 ft. consult the National Electrical Code.

*** 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.

ELECTRONIC FIELD WIRING DIAGRAM



3106481.009 Electronic Control Kit

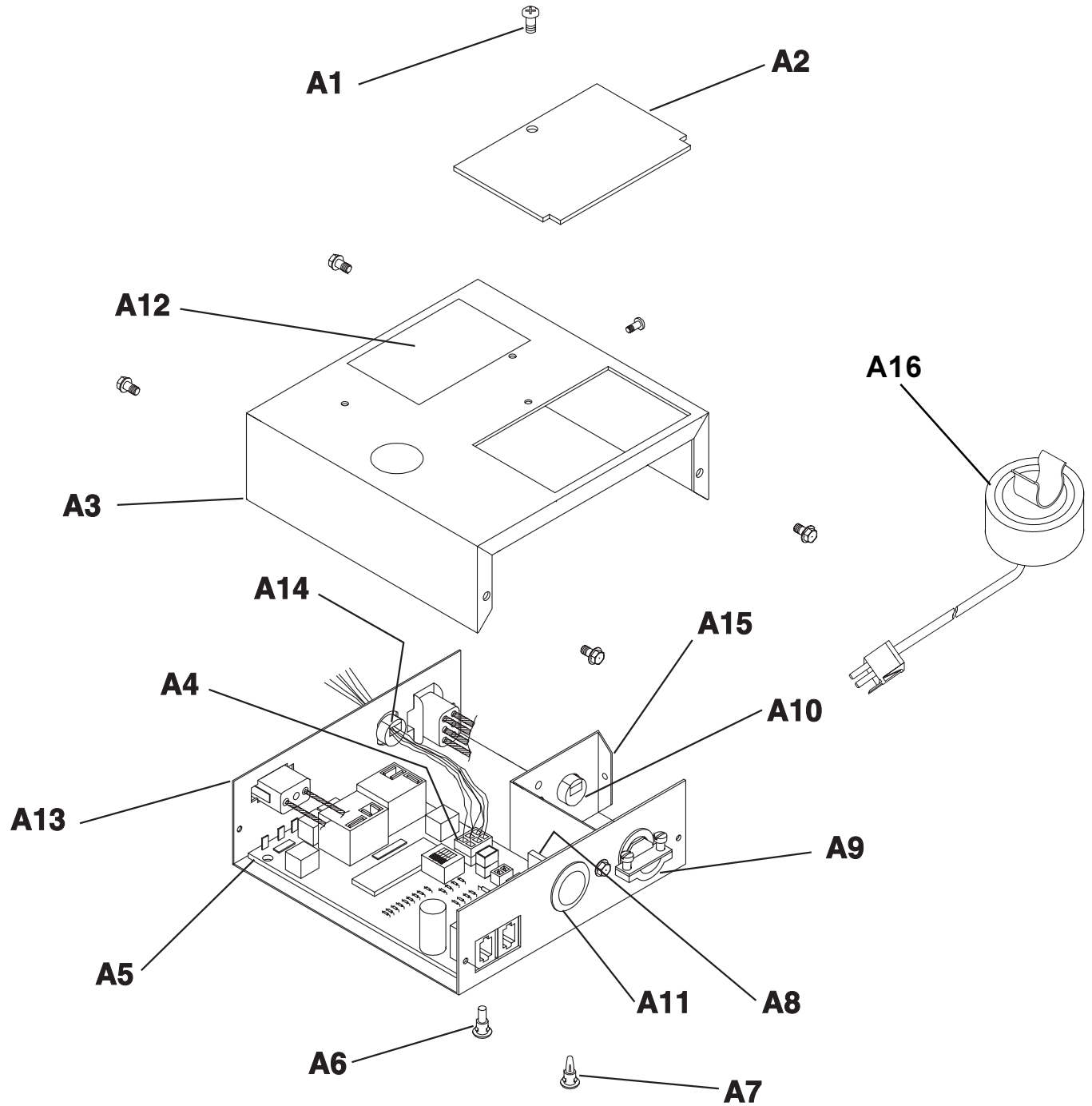


- | | | |
|--------------------------------------|--------|-------------|
| 1. Screw 1/4-20 x 8.00 (4 req.) | | 3100375.066 |
| 2. Box, Power Comfort Control Center | A1-A15 | See Page 5 |
| 3. Washer (4 req.) | | 309513.015 |

CUSTOMER OPTION – NOT REQUIRED:

3106486.003	Sensor Kit, remote	B1-B5	See Page 6
3105007.003	Cover Kit, return air	SW,	See Page 7
3105007.011	Cover Kit, return air	PW,	See Page 7
3105007.029	Cover Kit, return air	Gray,	See Page 7
3105935.005	Cover Kit, Quick Cool	SW,	See Page 7
3105935.013	Cover Kit, Quick Cool	PW,	See Page 7
3105164.002	Heat Kit		See Page 8

3106551.025 Box, Power Comfort Control Center



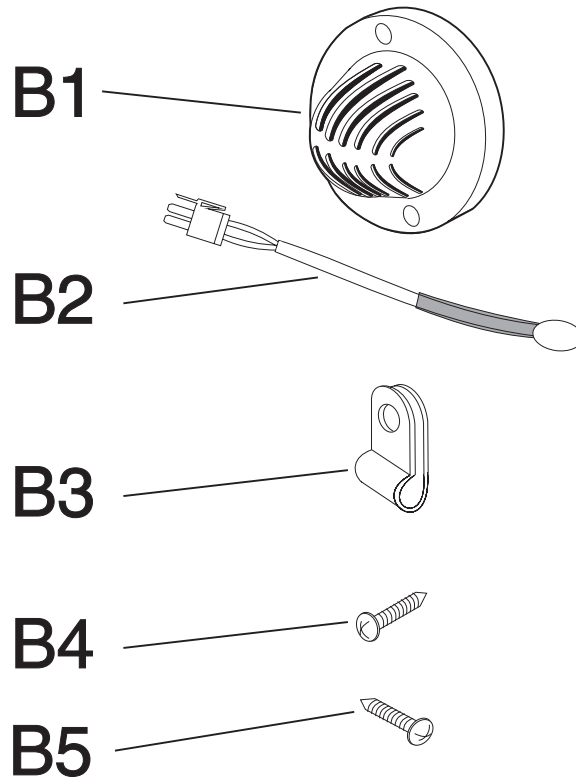
3106551.025 Box, Power Comfort Control Center

Item #	Description		Part No.
A1	Screw #10-24 x .38	(3 req.)	317224.001
A2	Cover, junction box		3106498.003
A3	Cover, main box		3106499.001
A4	Connector asm.		3106532.009
A5	Board, a/c power module		3106482.007
A6	Support, PC board	(6 req.)	3101623.019
A7	Standoff, PC board	(4 req.)	3101624.017
A8	Fuse, 3-amp		3106592.003
A9	Connector, cable		20010.000
A10	Relief, strain		302994.001
A11	Bushing, snap-in		301028.042
A12	Decal, field wiring		3106515.004
A13	Box, main		3106496.007
A14	Relief, strain		302994.006
A15	Cover, junction box enclosure		3106497.005
A16	Switch, low temperature		3106480.001

Customer Option - Not Required

3106486.008 REMOTE SENSOR (B1-B5)

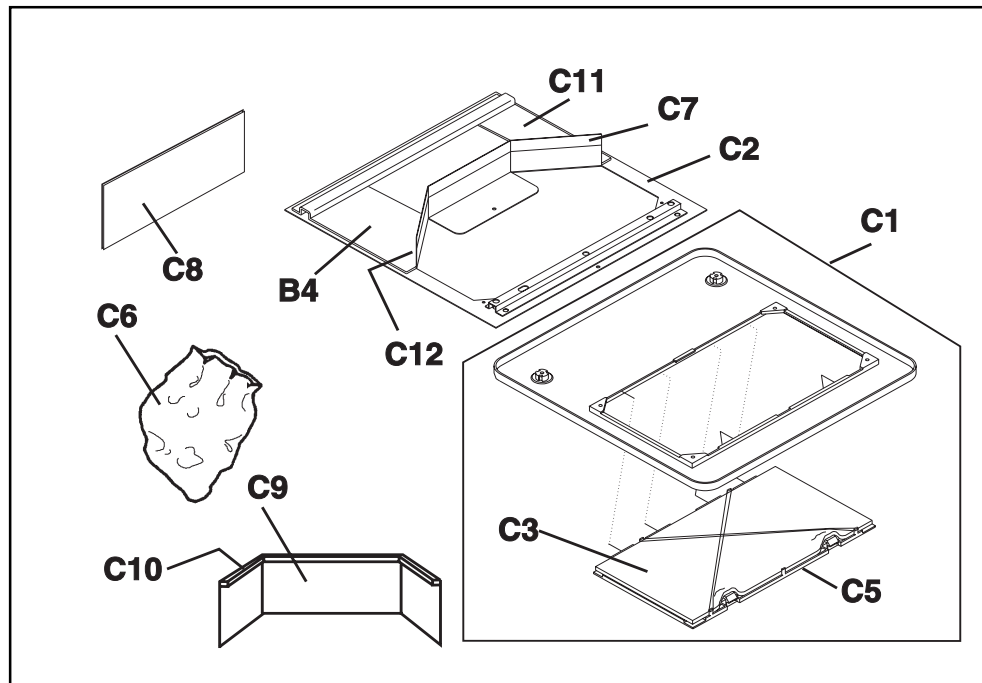
Index #	Description	Part No.
B1	Cap, sensor	3106488.012
B2	Sensor	3106484.004
B3	Nyloclip	304203.001
B4	Screw #4-24 x .62 (2 req.)	312096.005
B5	Screw #8-18 x .5	312096.014



Customer Option -- Return Air Asm.

Used with Electronic Control Kit 3106481.009

Item	Description	Part No.	Part No.
C	Cover Asm. Complete SW B1-B7	3105007.003	3105935.005
	Cover Asm. Complete PW B1-B7	3105007.011	3105935.013
	Cover Asm. Complete Gry B1-B7	3105007.029	— — — —
C1	Grill asm., (SW)	3105148.005	3105958.007
	Grill asm., (PW)	3105148.013	3105958.015
	Grill asm., (GRY)	3105148.021	— — — —
C2	Template, ceiling	3105000.008	3105000.016
C3	Filter	3105012.003	3105012.003
C4	Insulation, foam	3105010.007	3105946.002
C5	Grill, return air (SW)	3104928.001	3104928.001
	Grill, return air (PW)	3104928.019	3104928.019
	Grill, return air (GRY)	3104928.027	— — — —
C6	Parts bag	3108701.381	3108701.381
C7	Double-sided tape (16")	3105154.003	3105154.003
C8	Insulation	3105014.009	3105014.009
C9	Divider	3105009.009	3105009.009
C10	Foam tape (16" req.)	306168.000	306168.000
C11	Insulation (LH)	— — —	3105946.010
C12	Insulation	3105014.017	3105014.017



Customer Option

HEAT KIT — 590/595 SERIES ONLY

Item	Description	Part No.
D D1-D7	Heat Kit Complete	3105164.002
D1	Element, heat	3103778.001
D2	Switch, auto limit	3103785.006
D3	Plug, male (3-pole)	3106625.001
D4	Cover, heater term.	3103779.017
D5	Guard, heat element	3103821.001
D6	Sleeving, wire	3108087.004
D7	Strain, relief	302994.012

