

Duo-THERM[®]

by Dometic

Part No. 3106917.002 Electronic Control Kit USED WITH Roof Top Air Conditioners 59528.XXX and 59530.XXX

USA

SERVICE OFFICE
The Dometic Corp.
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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
INC. [®]
LISTED
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.
3106917.002
Electronic
Control Kit**

SPECIFICATIONS

MODEL NO.	59528.601	59530.601
Electrical Rating *	115VAC, 60 Hz, 1 Ph.	
Compressor		
Rated Load Amps	6.0	8.0
Locked Rotor Amps	45.6	48.3
Fan Motor		
Run Load Amps	2.0	2.0
Locked Rotor Amps	5.6	5.6
Refrigerant R22 (oz.)	16.5	19.0
Minimum Wire Size **	12 AWG Copper Conductors up to 24 ft.	
Circuit Protection	15 Amp Time Delay Fuse or HACR Circuit Breaker	
Installed Weight (lbs.)	92	94
Min. Generator	1 Unit	2.5 KW
Size ***	2 Units	4.0 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.

3106917.002 Control Kit Asm., A/C Electronic

Item #	Part No.	Description
1	3106496.007	Box, relay
2	3106499.001	Cover, relay box
3	3106497.005	Box, junction
4	3106498.003	Cover, junction box
5	3106901.006	Decal, field wiring
6	3106532.009	Connector assembly
7	302994.001	Strain relief
8	3106480.001	Sensor, freeze control
9	20010.000	Connector, cable
10	3106514.023	Connector asm., 6-pole
11	301028.042	Bushing, snap-in
12	302994.006	Strain relief
13	3106482.007	Board, power module
14	3106592.003	Element, fuse, 3-amp
15	317224.001	Screw, 16-24x.38 PCR (3 req.)
16	3106756.020	Screw, 1/4-20x8 (4 req.)
17	3101623.019	Support, PC board (6 req.)
18	3101624.017	Stand-off, PC board (4 req.)

CUSTOMER OPTION, RETURN AIR ASM. (See Page 5, for breakdown)

3105007.003	Cover, kit, return air (SW)
3105007.011	Cover, kit, return air (PW)
3105007.029	Cover, kit, return air (Gry)
3105935.005	Cover, kit, quick cool (SW)
3105935.013	Cover, kit, quick cool (PW)

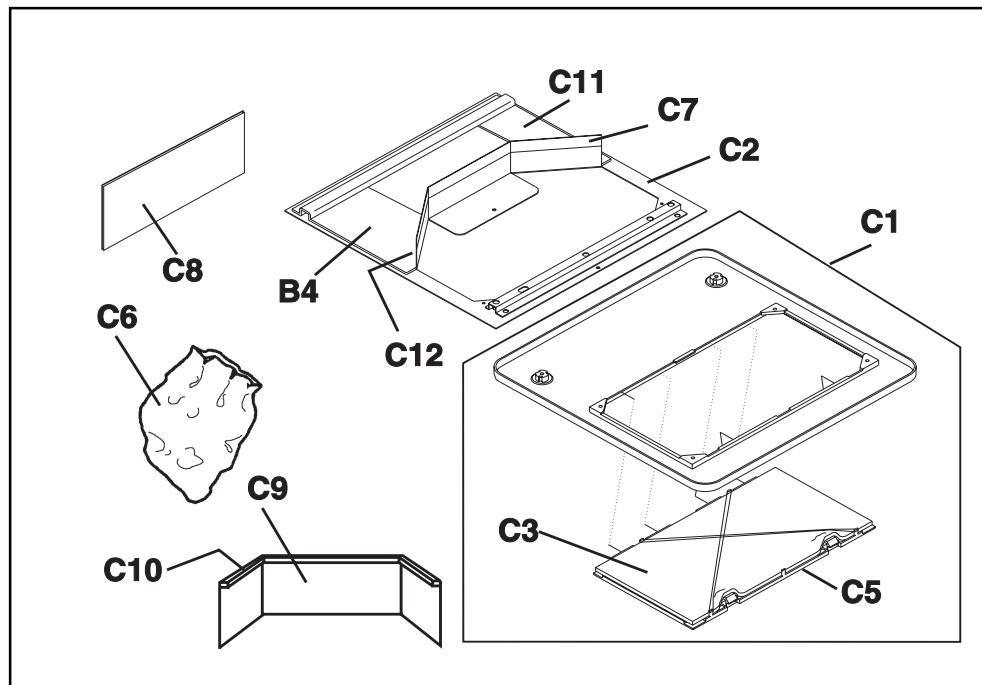
CUSTOMER OPTION, REMOTE SENSOR (See Page 6, for breakdown)

3106486.008	Remote sensor
3106486.016	Remote sensor (60")

Customer Option -- Return Air Asm.

Used with Electronic Control Kit 3106917.002

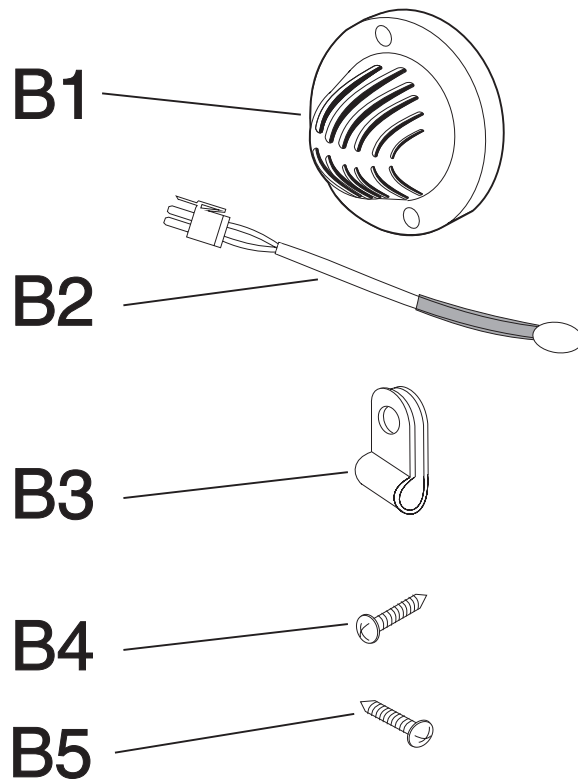
Item	Description	Part No.	Part No.
C	Cover Asm. Complete SW C1-C12	3105007.003	3105935.005
	Cover Asm. Complete PW C1-C12	3105007.011	3105935.013
	Cover Asm. Complete Gry C1-C12	3105007.029	-----
C1	Grill asm., (SW)	3105148.005	3105958.007
	Grill asm., (PW)	3105148.013	3105958.015
	Grill asm., (GRY)	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



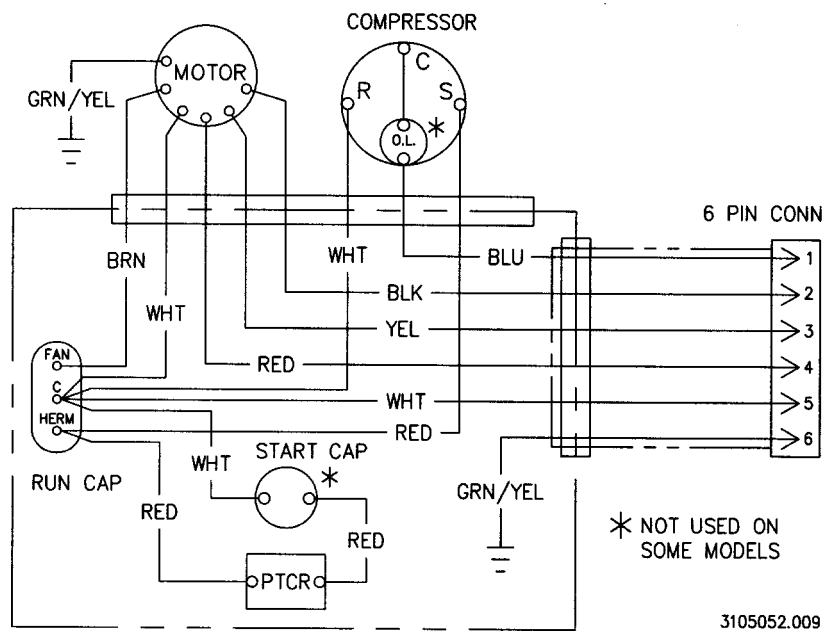
Customer Option - Not Required

3106486.008 & 3106486.016 REMOTE SENSOR (B1-B5)

Index #	Description	Part No.	Part No.
B	REMOTE SENSOR (B1-B5)	3106486.008	3106486.016
B1	Cap, sensor	3106488.012	3106488.012
B2	Sensor	3106484.004	3106484.011
B3	Nyloclip	304203.001	304203.001
B4	Screw #4-24 x .62 (2 req.)	312096.005	312096.005
B5	Screw #8-18 x .5	312096.014	312096.014



UNIT FIELD WIRING DIAGRAM (A/C)



ELECTRONIC FIELD WIRING DIAGRAM

