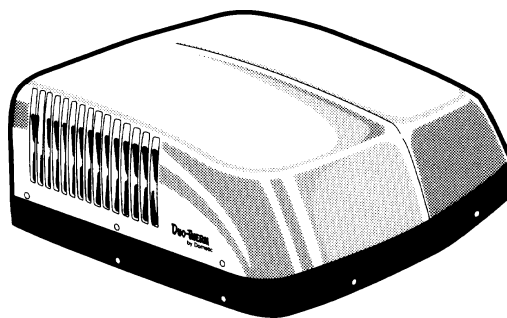


Duo-THERM®
by Dometic

WHEN ORDERING SPARE PARTS, ALWAYS STATE:

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

MODULARIZED **BRISKAIR** Roof-Top Air Conditioner



Includes C & D Suffix

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 Technical
Assistance Call:
800-544-4881

PARTS LIST

REVISION
Form No. 3106669.041 2/99
(Replaces 3106669.033)
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LaGrange, IN 46761

MODELS

59516.501, C & D

Product No. 991731749

59516.506, C

Product No. 991731750

59516.601, C & D

Product No. 991731759

59516.606, C

Product No. 991731760

[illegible]

ALPHABETICAL INDEX

Customer Options
Roof Mounted Assembly
Specifications
Wiring Diagram

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3	—

SPECIFICATIONS

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

MODEL NO.	59516.501, .506, .601, .606
Nominal Capacity (BTU/HR)	15,000
Electrical Rating	115 VAC, 60 Hz., 1 ph.
Compressor Rated Load Amps	12.9
Fan Motor Rated Load Amps	2.5
Compressor Locked Rotor Amps	71.0
Fan Motor Locked Rotor Amps	6.0
SCFM-High Speed Max./Min.	325 / 250
Total Static - Min./Max.	0.40 / .10
Refrigerant (R22) Oz.	31.0
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)	102
Minimum Generator	1 Unit 3.5 KW
Size **	2 Units 5.0 KW

SPECIFICATIONS

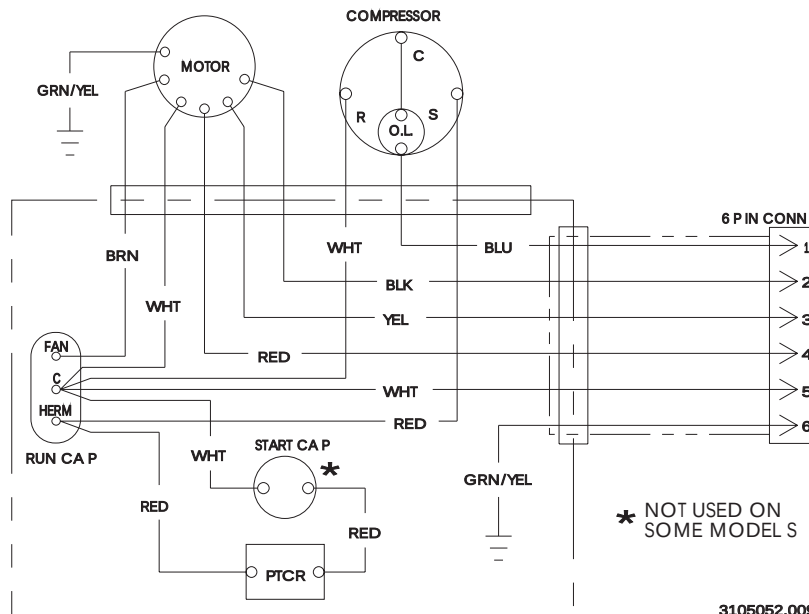
Bi-Metal Air Distribution Box Kit #3105637.007/3105637.015
Manual Air Distribution Box Kit #3105023.000/3105023.018

MODEL NO.	59516.501,506,601,606
Nominal Capacity (BTU/HR)	15,000
Electrical Rating	115 VAC, 60 Hz., 1 ph.
Compressor Rated Load Amps	12.9
Fan Motor Rated Load Amps	2.5
Compressor Locked Rotor Amps	71.0
Fan Motor Locked Rotor Amps	6.0
Heater Amps/ Watts@120VAC	12.7/1530
Refrigerant (R22) Oz.	31.0
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)	111
Minimum Generator	1 Unit 3.5 KW
Size **	2 Units 5.0 KW

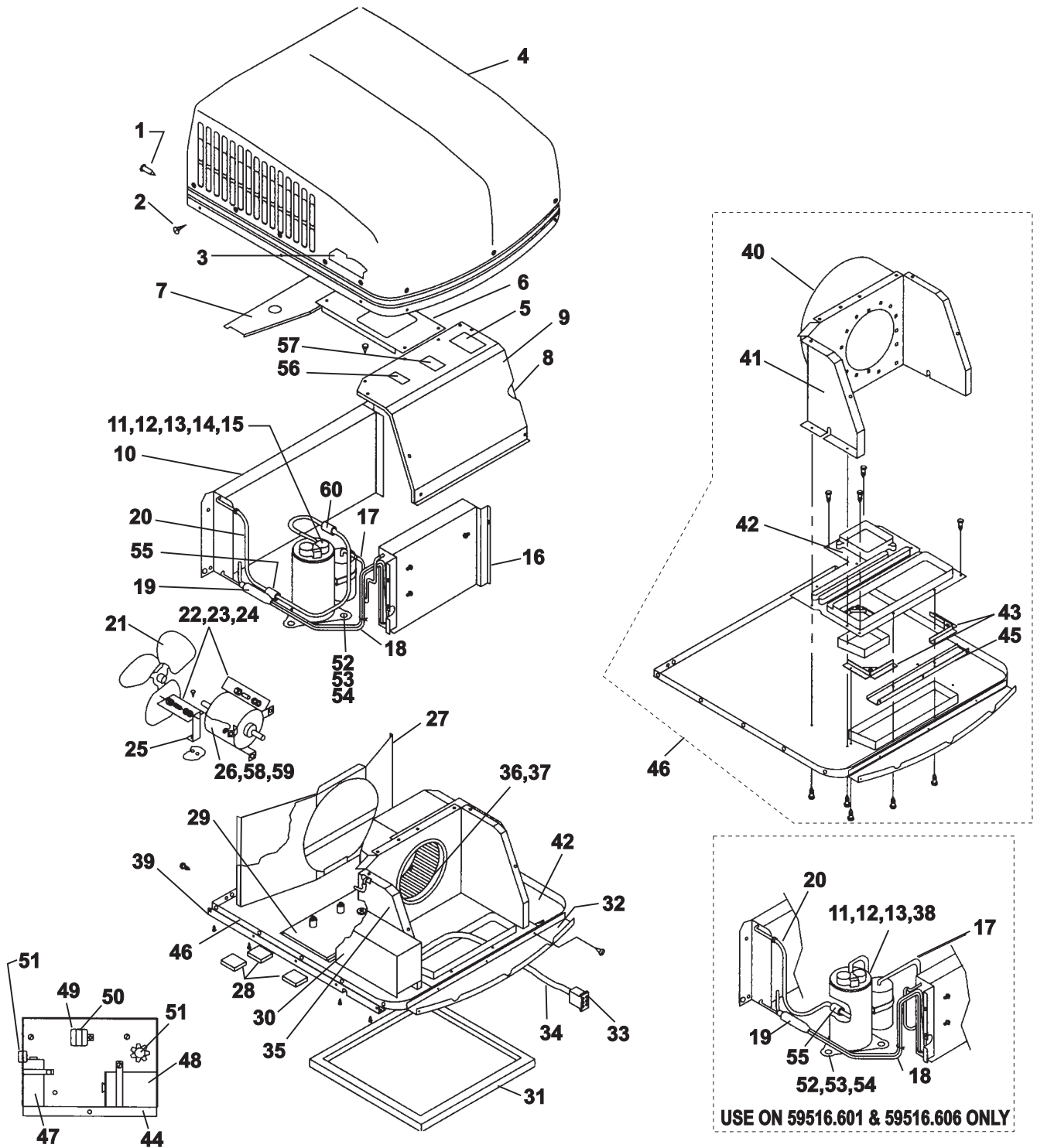
*** For distances over 24 ft. consult the National Electrical Code.

** 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



USE ON 59516.601 & 59516.606 ONLY

CUSTOMER OPTIONS – REQUIRED

Air Distribution Box (SW)	3105023.000
Air Distribution Box (PW)	3105023.018
Electronic Kit /Gas Heat	3104999.002
Electronic Kit w/o Gas Heat	3104999.010
Control Kit, Analog Cool Only	3107541.009
Control Kit, Analog Heat Strip	3107541.017
Box asm., complete Shell White	3107210.001
Box asm., complete Polar White	3107210.019
*SEE INDIVIDUAL PARTS LIST FOR EACH OPTION	

MODEL 59516 SERIES ROOF TOP AIR CONDITIONER

Index #	Description	59516.501	59516.506	59516.601	59516.606
1	Screw, shoulder (2 req.)	3102834.003	3102834.003	3102834.003	3102834.003
2	Screw, shroud (12 req.)	313685.001	313685.001	313685.001	313685.001
3	Decal, Shroud	See NOTE 1	See NOTE 1	See NOTE 1	See NOTE 1
4	Shroud	See NOTE 2	See NOTE 2	See NOTE 2	See NOTE 2
5	Decal, field wiring	3105052.009	3105052.009	3105052.009	3105052.009
6	Bulkhead, brace	3100357.023	3100357.023	3100357.023	3100357.023
7	Cover, condenser	309383.000	309383.000	309383.000	309383.000
8	Insulation, evaporator	317797.001	317797.001	317797.001	317797.001
9	Cover, evaporator coil	314885.002	314885.002	314885.002	314885.002
10	Coil, condenser	3106341.005	3106341.005	3106341.005	3106341.005
11	Compressor, asm. (Matsushita 2K21C3R126A-5A)	3104616.002	3104616.002	— — — — —	— — — — —
	Compressor, asm. (Tecumseh RK2254T-026)	— — — — —	3105610.004	3105610.004	— — — — —
12	Cover, terminal	3102548.009	3102548.009	3103799.007	3103799.007
13	Gasket, terminal cover	3102549.007	3102549.007	3103800.003	3103800.003
14	Nut, terminal cover	3102550.005	3102550.005	— — — — —	— — — — —
15	Gasket, nut	3102551.003	3102551.003	— — — — —	— — — — —
16	Coil, evaporator	3105060.010	3105060.010	3105060.010	3105060.010
17	Line, suction	3104627.017	3104627.017	3105823.003	3105823.003
18	Tube, capillary (2 req.) *	3100245.343	3100245.343	3100245.426*	3100245.426*
19	Filter-drier	3103882.001	3103882.001	3103882.001	3103882.001
20	Line, discharge	3105422.004	3105422.004	3105824.001	3105824.001
21	Blade, fan	317937.000	317937.000	317937.000	317937.000
22	Grommet, motor (4 req.)	3100230.022	3100230.022	3100230.022	3100230.022
23	Spacer, motor (4 req.)	308046.002	308046.002	308046.002	308046.002
24	Nut, flange #8-32 (4 req.)	306342.003	306342.003	306342.003	306342.003
25	Kit, motor support	3108700.067	3108700.067	3108700.067	3108700.067
26	Kit, motor	3108702.394	3108702.394	3108702.394	3108702.394
27	Bulkhead, condenser	317923.001	317923.001	317923.001	317923.001
28	Blocks, foam (7 req.)	3100587.009	3100587.009	3100587.009	3100587.009
29	Plate, compressor mounting	3107478.004	3107478.004	3107478.004	3107478.004
30	Cover, elec. box	3100828.007	3100828.007	3100828.007	3100828.007
31	Gasket 14" x 14"	3100247.000	3100247.000	3100247.000	3100247.000
32	Channel, front	3102811.001	3102811.001	3102811.001	3102811.001
33	Plug, connection	314470.001	314470.001	314470.001	314470.001
34	Sleeving, wire	318087.009	318087.009	318087.009	318087.009
35	Insulation (3 piece set)	3104152.008	3104152.008	3104152.008	3104152.008
36	Blower, inlet ring	309304.000	309304.000	309304.000	309304.000
37	Wheel, blower	3104887.009	3104887.009	3104887.009	3104887.009
38	Nut, flange	— — — — —	306342.004	306342.004	— — — — —
39	Bracket, basepan side	See NOTE 4	3103930.008	See NOTE 4	3103930.008
40	Housing, weld blower	3101145.005	3101145.005	3101145.005	3101145.005
41	Bulkhead, evaporator	3100831.076	3100831.076	3100831.076	3100831.076
42	Pan, drain	See NOTE 3	See NOTE 3	See NOTE 3	See NOTE 3
43	Bracket, mounting (3 req.)	3106290.004	3106290.004	3106290.004	3106290.004
44	Box, electrical	3100827.058	3100827.058	3100827.058	3100827.058
45	Brace, front	See NOTE 3	See NOTE 3	See NOTE 3	See NOTE 3
46	Pan, base	See NOTE 3	See NOTE 3	See NOTE 3	See NOTE 3
47	Capacitor, start	3100236.169	3100236.169	3100236.169	3100236.169
48	Capacitor, run	3100248.511	3100248.511	3100248.495	3100248.495
49	Relay, PTCR	3100876.006	3100876.006	3100876.006	3100876.006
50	Bracket, PTCR	3100877.004	3100877.004	3100877.004	3108700.004
51	Strain relief (2 req.)	302994.017	302994.017	302994.017	302994.017
52	Grommet, compressor (4 req.)	3102324.005	3102324.005	3102324.005	3102324.005
53	Nut, flange (3 req.)	306342.002	306342.002	306342.002	306342.002
54	Sleeve, compressor (3 req.)	3100239.056	3100239.056	3100239.056	3100239.056
55	Tape, mastic 12" x 1" x 7"	3105425.007	3105425.007	3105425.007	3105425.007
56	Decal, "Caution"	3100384.001	3100384.001	3100384.001	3100384.001
57	Decal, "UAW/Diel"	316655.000	316655.000	316655.000	316655.000
58	Sleeving, Wire	3108087.004	3108087.004	3108087.004	3108087.004
59	Wire Tie	317228.003	317228.003	317228.003	317228.003
60	Vibration Pad	3107016.002	3107016.002	3107016.002	3107016.002
	Customer Options - Required	See Pg. 4	See Pg. 4	See Pg. 4	See Pg. 4

NOTE 1: SHROUD DECAL (2 REQ.) 3104238.005

NOTE 2: SHROUD PART NO.

No Suffix letter	Shell White	3103144.006
With Suffix letter C	Polar White	3103147.009
With Suffix letter D	Lt. Gray	3103143.008

NOTE 3: NOT AVAILABLE AS INDIVIDUAL PART

Order Base Kit No. 3108705.348
Kit includes Items 35, 39, 40, 41, 42, 43, 45 & 46

NOTE 4: BRACKET BASE PAN SIDE

Used only on Models 59516.506, .606