



SUBURBAN MANUFACTURING COMPANY
Post Office Box 399
Dayton, Tennessee 37321



DYNALINE MODEL DL-1220 COMBINATION HEATING AND COOLING UNIT FOR YEAR ROUND OPERATION OWNER'S MANUAL INSTALLATION, OPERATING, AND SERVICE INSTRUCTIONS

This book contains instructions for installation and operation of your unit. Keep with unit at all times.
Should you require further information, contact your dealer.

FOR YOUR SAFETY
IF YOU SMELL GAS:
1. OPEN ALL WINDOWS.
2. DON'T TOUCH ANY ELECTRICAL SWITCHES.
3. EXTINGUISH ANY OPEN FLAMES.
4. IMMEDIATELY CALL YOUR GAS SUPPLIER.

FOR YOUR SAFETY
DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

FOREWORD

You have just purchased a Suburban heating and cooling unit. This unit is design certified by the American Gas Association as a Fan Type Direct Vent Wall Furnace With Cooling Unit and complies with the latest edition of American National Standard Z21.44. It is listed under the heading of Direct Vent Wall Furnaces in the Listings Directory. It is designed for use with natural gas or liquefied petroleum (LP) gas only.

To simplify the proper installation and to assure that the unit will operate in conformity with generally accepted safety regulations, it requires that you read carefully and fully understand the step-by-step instructions outlined in this manual.

NOTE: Do not deviate from the instructions as outlined in this manual. Failure to follow the installation, operating and maintenance instructions will void the responsibility of Suburban Manufacturing Company.

INSPECTING FOR FREIGHT DAMAGES

Your unit was carefully packed in a container which complies with the National Safe Transit Test. This means that the packaged product, with normal handling, will withstand the load conditions encountered in normal transit and in handling.

Your unit should be inspected immediately after unpacking to determine if any damage is present due to shipping or handling. If any damage is discovered, **do not install the unit.** Notify the transportation company immediately and file a damage claim.

Manufacturer can bear no responsibility for damages which occur in transit or improper operation of the unit as a result of shipping damages.

Keep this manual in a safe place for ready reference.

For future reference, you should record the Model Number, Serial Number and Date Code of your unit.

MODEL NUMBER _____

SERIAL NUMBER _____

DATE CODE _____

INTRODUCTION

This manual is intended to familiarize the installer, serviceman and user with the installation, operation and maintenance of the heating and cooling unit.

These units are designed to be installed in residential homes and commercial buildings with a minimum wall thickness of 1" and a maximum wall thickness of 13". The unit is not certified for installation in mobile homes.

These units must be installed so that the rear portion is vented to the outside atmosphere. Do not attempt to alter the venting system of these units.

PRE-INSTALLATION TIPS

A. Choosing a suitable location:

The unit must be located along the outside wall of a room. A location should be selected with consideration for circulation of discharge (room) air. Generally, the location which provides the most effective circulation is midway along the way of the room the unit is to serve and away from a stairwell or other openings. The heater must not be located behind a door or at a point where a door, if left open, would tend to obstruct the heater.

NOTE: Do not install the heater in an alcove or recess which does not allow good air circulation.



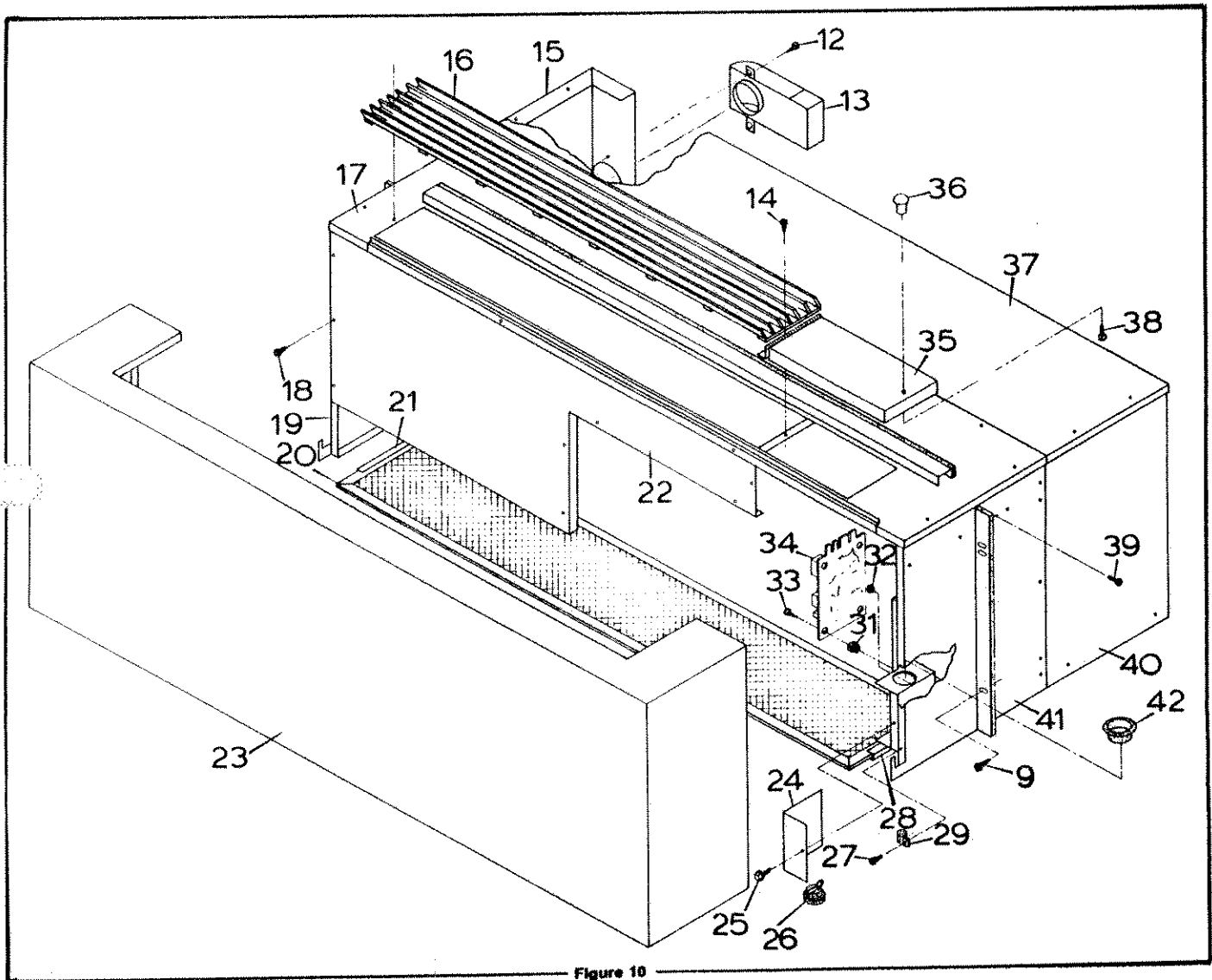


Figure 10

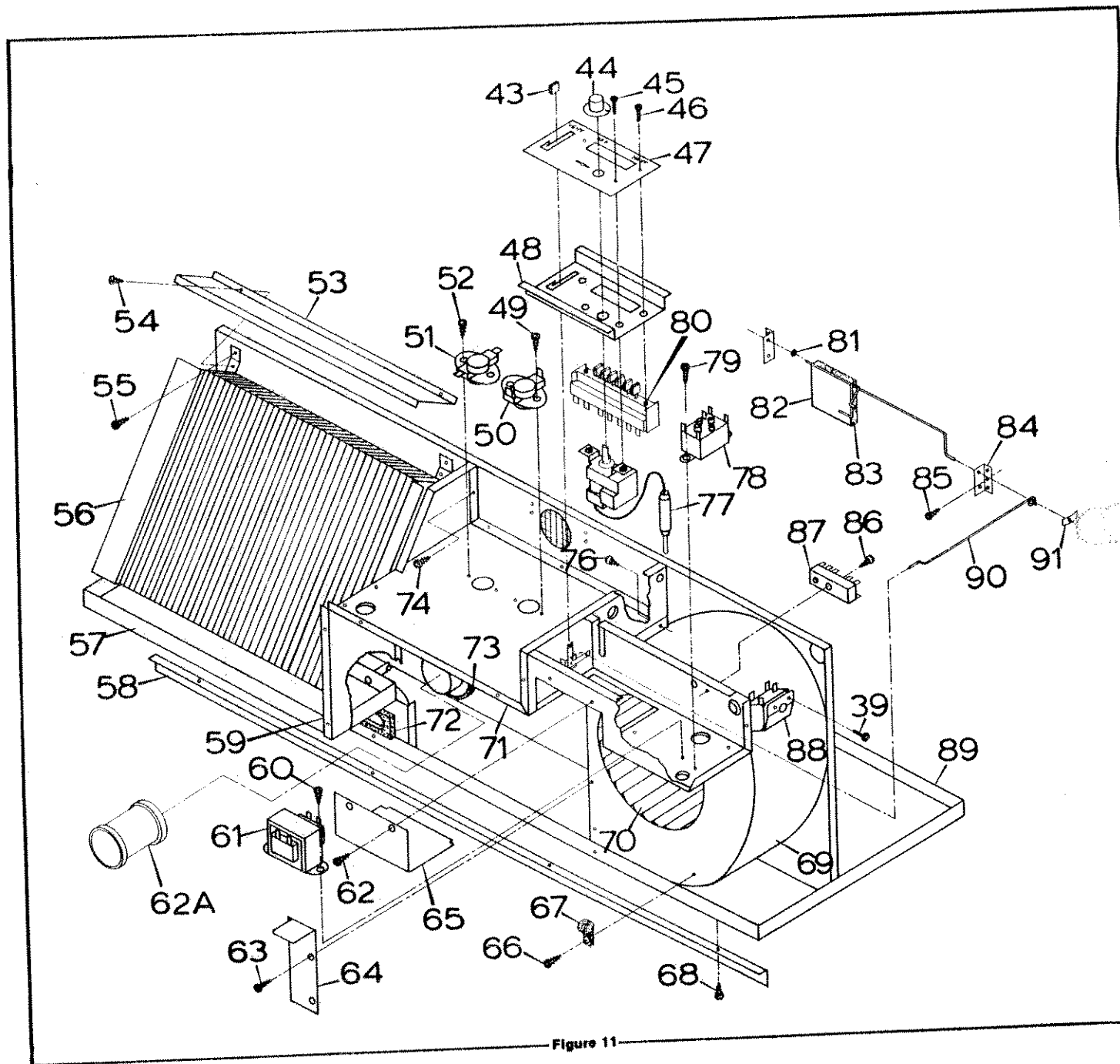


Figure 11

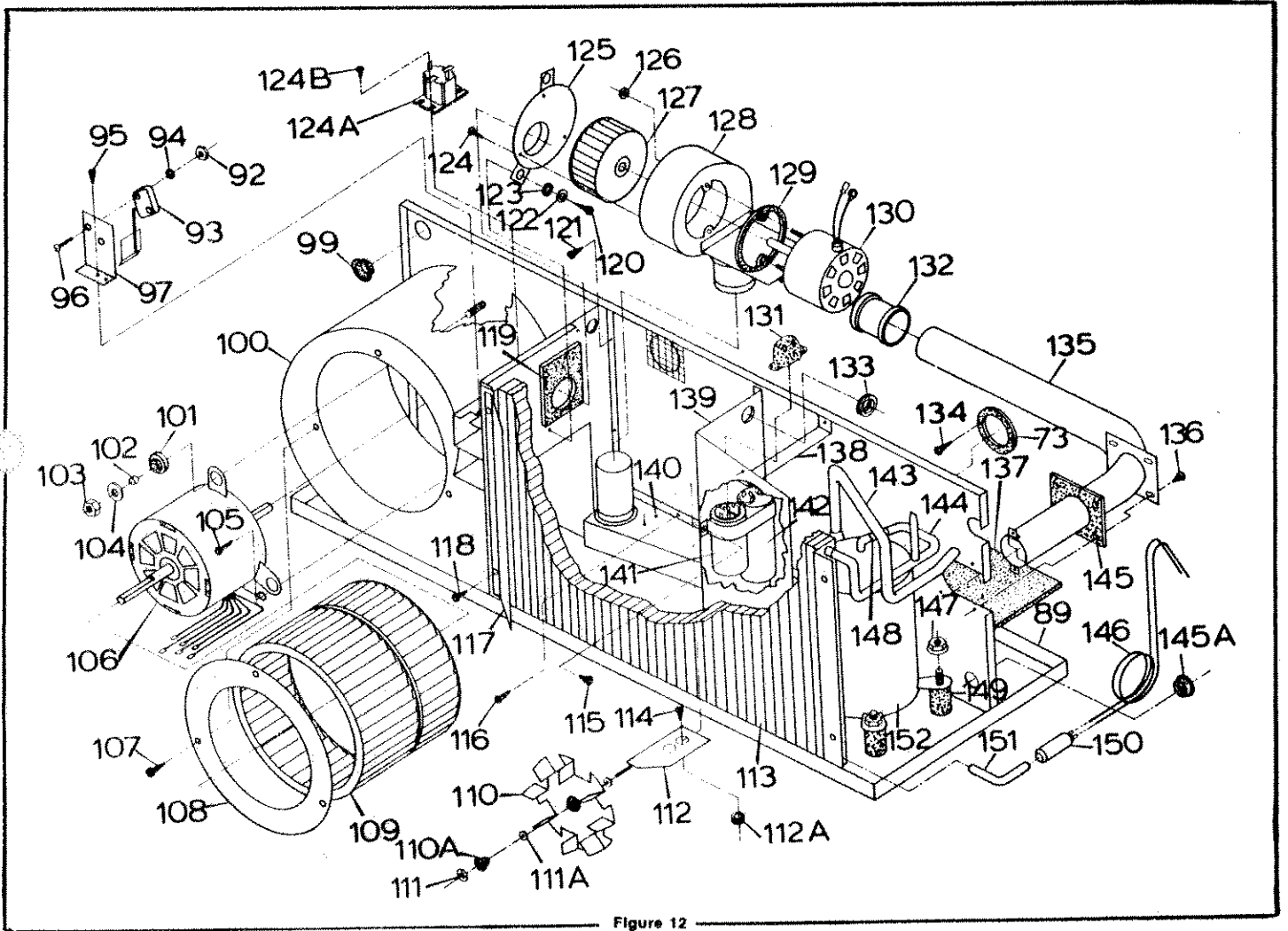


Figure 12

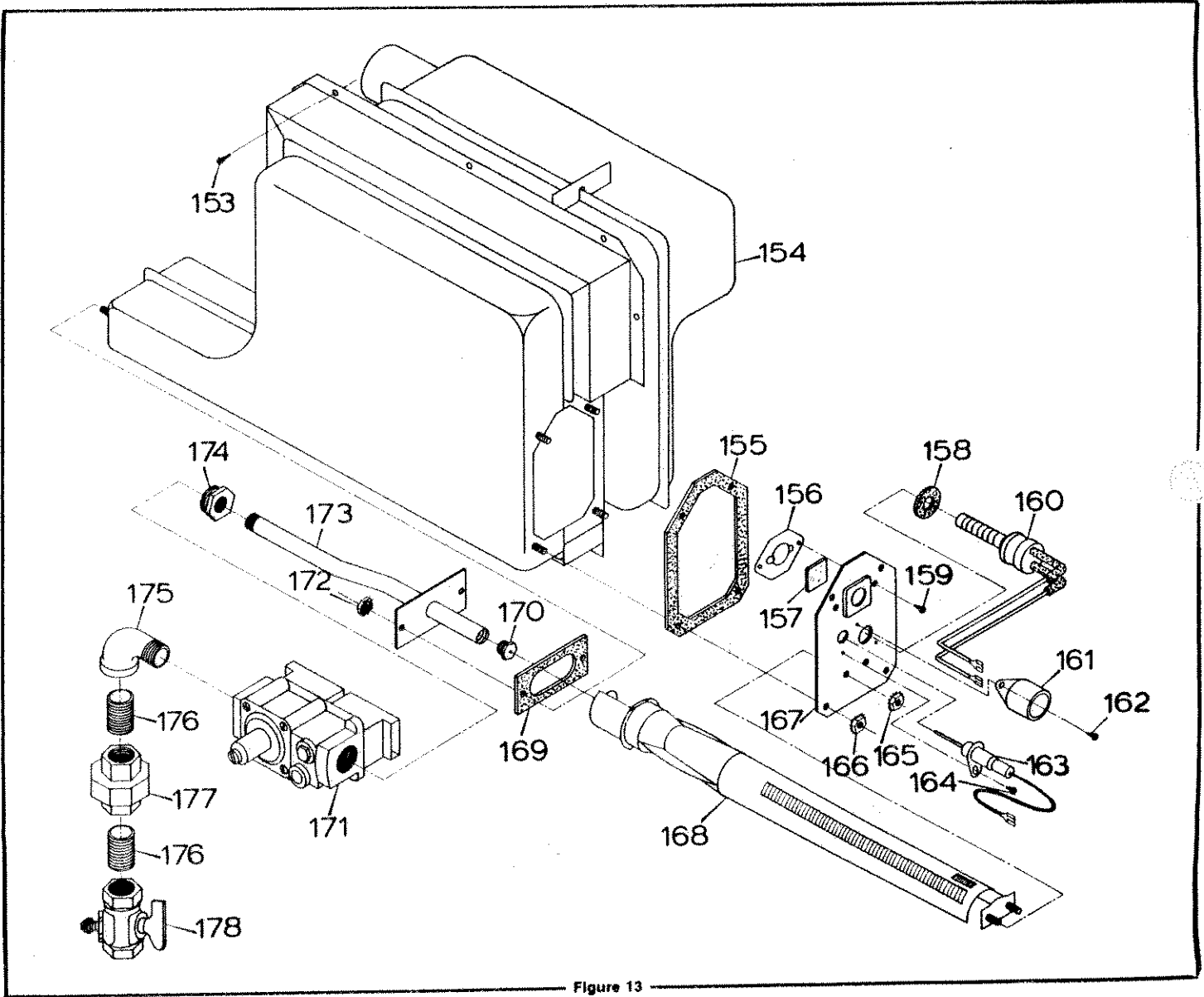


Figure 13

ORDERING AIR PARTS

Do not attempt to repair damaged parts. Only factory authorized parts are to be used.

This manual should be used when ordering repair parts. Keep it in a safe place for future reference.
When ordering parts from your dealer or distributor, always give the following information:

1. Part Name (Not Item Number)
2. Part Description
3. Model and Serial Number of Unit
4. Number of Parts Required

Item No.	Description	Part No.	Item No.	Description	Part No.
A	Screw #10 - 24 x 3/8 (6 Required)	121654	121	Screw #8 x 3/8 (2 Required)	120158
B	Grill, Architectural (Aluminum)	030623	122	Washer #10 Flat (2 Required)	120159
C	Grill, Architectural (Bronze)	030622	123	Grommet (2 Required)	070485
D	Frame Assembly	X030626	124	Screw #8 x 3/8 (3 Required)	120158
1	Screw #8 - 1/2 (4 Required)	121647	124A	Relay, Time Delay	231202
2	Grill Assembly (Standard)	X030626	124B	Screw #6 x 5/8 (2 Required)	121357
3	Gasket, Wall Case Top	070675	125	Combustion Air Housing Cover Assembly	X050796
4	Gasket, Wall Case End (Short) (2 Required)	101094	126	Nut #8 - 32 Hex Lock (2 Required)	121271
5	Gasket, Wall Case End (Long) (2 Required)	070677	127	Wheel, Combustion Air	350689
5A	Nut 10 - 24 Hex	070676	128	Blower Housing Assembly, Combustion Air	X390359
6	Gasket, Wall Case Bottom	120717	129	Gasket, Motor	070490
7	Wall Case Assembly (Bottom and Sides with Gasket)	070673	130	Motor Assembly, Combustion Air	231103
8	Tinnerman (4 Required)	101103	131	Boot, Capacitor (2 Required)	231231
9	Screw #10 x 1/2 (4 Required)	121378	132	Coupling	X050851
10	Screw #8 x 1/2 (4 Required)	121368	133	Grommet	120158
11	Tinnerman (2 Required)	121647	134	Screw #8 x 3/8 (2 Required)	120242
12	Nameplate	121442	135	Exhaust Tube Assembly	120158
13	Screw #8 x 3/8 (2 Required)	530028	136	Screw #8 x 3/8 (4 Required)	X050931
14	Vent Cap Assembly	120158	137	Insulation Cabinet Base	070700
15	Screw #6 x 1/2 (2 Required)	X260139	138	Spacer Bracket	062700
16	Cabinet Left Side (Rear Half)	121647	139	Condenser Air Deflector Assembly	X040335
17	Cabinet Top Assembly with Insulation (Front Half)	101133	140	Combustion Air Tunnel Assembly	X050801
18	Screw #8 x 3/8 (Cabinet Parts to Base Assembly - 41 Required)	030656	141	Capacitor 7.5 MFD	X050801
19	Cabinet Left Side Assembly with Insulation	101048	142	Capacitor 25 MFD	230738
20	Filter, Return Air	120158	143	Tube, Suction	230830
21	Evaporator Front Panel Assembly with Insulation	101052	144	Discharge Tube Assembly	170928
22	Cabinet Front Assembly	030600	145	Gasket, Exhaust Tube Bracket	X170959
23	Cover, Junction Box	062819	146	Bushing, Universal	070708
24	Screw #8 - 32 x 3/8	101051	147	Nut 5/16 - 18 Lock (3 Required)	170780
25	Bushing, Strain Relief	090234	148	Reducer, Discharge Line	121495
26	Screw #8 - 32 x 3/8	121407	149	Support Compressor Mounting (3 Required)	170779
27	Screw #8 x 3/8	510405	150	Sitainer, Capillary	070582
28	Bracket, Filter Retainer (Right)	120158	151	Tube, Strainer Connector	170781
29	Clamp, Wire	062620	152	Compressor Assembly (Note: Also order with Compressor Item #148)	380117
30	Nut 10 - 24 Keps (Green)	121632	153	Screw #8 x 3/8 (9 Required)	120158
31	Spacer Panel (4 Required)	121576	154	Combustion Chamber Assembly	X021004
32	Screw #6 x 5/8 (2 Required)	121357	155	Gasket, Burner Access Door	070398
33	Module Board	230954	156	Cover Plate	290120
34	Control Access Door Assembly	030657	157	Glass Disc	310026
35	Knob, Control Access Door	140136	158	Gasket, Glo-Bar (2 Required)	070568
36	Cabinet Top Assembly with Insulation (Rear Half)	101061	159	Screw #8 x 3/8 (2 Required)	120158
37	Screw #6 - 32 x 1/4	121585	160	Glo Bar	230811
38	Cabinet Right Side (2 Required)	120703	161	Retainer, Glo-Bar	062445
39	Screw #8 - 32 x 3/8 (2 Required)	101038	162	Flame Probe	231376
40	Cabinet Right Side, Rear Half	101062	163	Screw #6 x 3/8 (2 Required)	121502
41	Cabinet Right Side Assembly with Seal Strip (Front Half)	070486	164	Screw #6 x 3/8	121502
42	Bushing	140157	165	Nut 10 - 24 Hex Keps (Burner Mounting - 2 Required)	120717
43	Button, Vent Door Lever	140157	166	Nut 10 - 24 Hex Keps (Burner Access Door)	030602
44	Knob, Thermostat	140156	167	Burner Access Door	120717
45	Screw #6 - 32 x 3/8 Truss Hd (2 Required)	121650	168	Burner Assembly	X030602
46	Screw #6 - 32 x 3/8 Truss Hd (2 Required)	190519	169	Gasket, Manifold	X010705
47	Plate, Controls Indicator	062621	170	Orifice, LP Gas Only	070450
48	Panel, Controls Mounting	190519	171	Orifice, Natural Gas Only	180188
49	Screw #8 x 3/8 (2 Required)	120158	172	Valve, LP Gas Only	180187
50	Switch, Fan	231084	173	Valve, Natural Gas Only	160822
51	Switch, Limit	230739	174	Nut 10 - 24 Hex Keps (Manifold Mounting - 2 Required)	160821
52	Screw #8 x 3/8 (2 Required)	120158	175	Manifold Assembly	120717
53	Cap, Evaporator Coil (Cover)	380100	176	Filling, Reducer	X170932
54	Screw #8 x 3/8 (2 Required)	120158	177	Street Elbow 90°	170543
55	Screw #8 x 3/8 (2 Required)	120158	178	Pipe Nipple 1/2 (2 Required)	170278
56	Coil, Evaporator	380091	179	Union	170614
57	Evaporator Drain Pan Assembly with Insulation and Gaskets	380101	180	Manifold, Spur On Valve	180654
58	Evaporator Drain Pan Assembly with Insulation and Gaskets	380101			





Dayton, Tennessee • Elkhart, Indiana • Anaheim, California

Technical Services Information

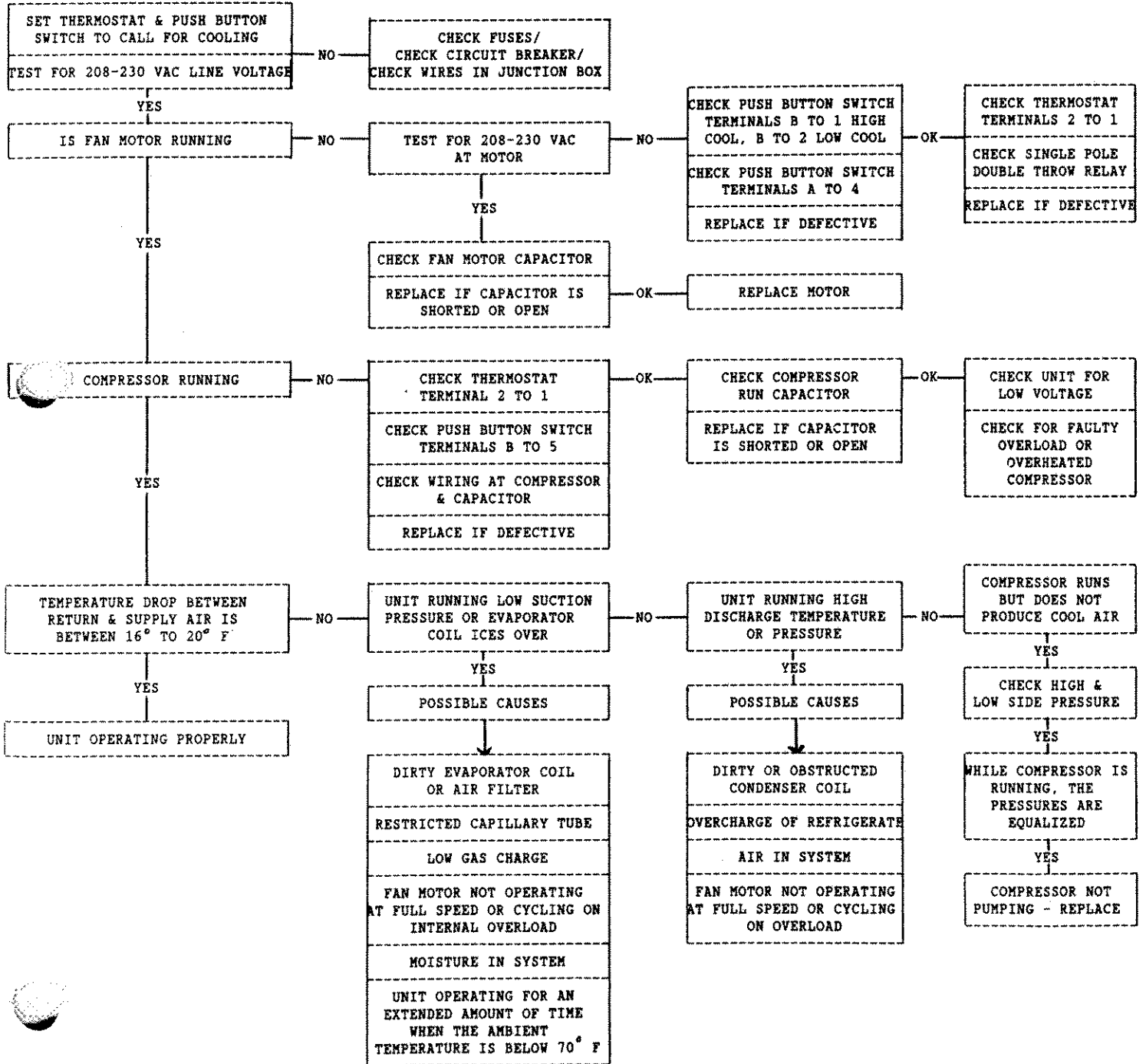
Trouble-shooting Guide/Cooling Cycle
For Models DL-0912 and DL-1220

TSI: RG87-116

Date: 05/08/87

SERVICE BULLETIN

DL-0912 AND DL-1220







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Technical Services Information

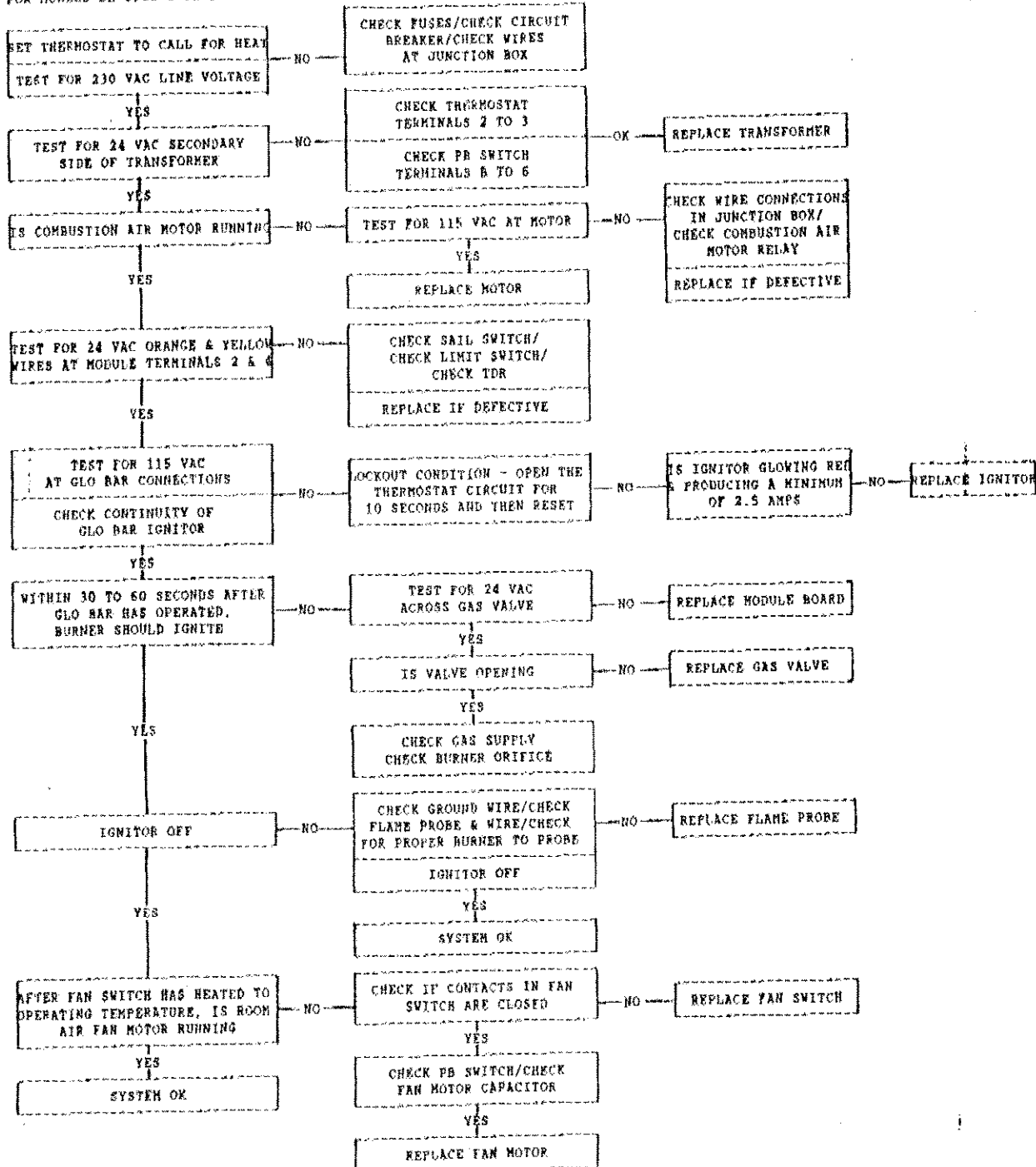
Dynalene - Models DL-0912 and DL-1220
 Trouble-shooting Guide
 Carborundum Glo-bar System
 Heating Section

TSI: RC87-114

Date: 05/15/87

SERVICE BULLETIN

FOR MODELS DL-0912 & DL-1220



PB: PUSH BUTTON SWITCH
 TDR: TIME DELAY RELAY

*SEE WIRING DIAGRAM APPLICABLE UNIT FOR COLOR CODES

