



Suburban
Manufacturing Company

a subsidiary of AIRXCEL, Inc.

SUBURBAN MANUFACTURING COMPANY

676 Broadway Street
Dayton, Tennessee 37321



DYNATRAIL

INSTALLATION INSTRUCTIONS FOR MODELS

NT-24SP • NT-30SP • NT-34SP



The design of the furnace has been certified for installation in recreational vehicles only. In order for the furnace to operate in conformity with generally accepted safety regulations, the installation instructions must be followed. Failure to comply with the installation instructions will void the warranty on the furnace and any responsibility on the part of Suburban Manufacturing Company.

The furnace was inspected before it left the factory. If any parts are found to be damaged, do not install the furnace. Immediately contact the transportation company and file a claim.

WARNING! Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to the installation instructions and/or owners manual provided with this appliance. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

INSTALLATION INSTRUCTIONS

WARNING! Installation of this appliance must be made in accordance with the written instructions provided in this manual. No agent, representative or employee of Suburban or other person has the authority to change, modify or waive any provision of the instructions contained in this manual.

CAUTION: If possible, do not install the furnace to where the vent can be covered or obstructed when any door on the trailer is opened. If this is not possible, then the travel of the door must be restricted in order to provide a 6" minimum clearance between the furnace vent and any door whenever the door is open. **NOTE:** The exhaust temperature of this furnace could discolor or warp some materials. You should verify that the material used on the coach door, panel, or cover will not discolor or warp from the exhaust temperature whenever any door, panel, or cover is in the open position.

CAUTION: Due to the differences in vinyl siding, this appliance should not be installed on vinyl siding without first consulting with the manufacturer of the siding or cutting the siding away from the area around the appliance vent.

CAUTION: In any installation in which the vent of this appliance can be covered due to the construction of the RV or some special feature of the RV such as slide out, pop-up, etc. always insure that the appliance cannot be operated by setting the thermostat to the positive "OFF" position and shutting off all electrical and gas supply to the appliance. Never operate furnace with vent covered.

NOTE: These furnaces must be installed and vented as described in this manual so that the negative pressure created by the air circulating (return air) fan cannot affect the combustion air intake or venting of any other appliance. It is imperative that the products of combustion be properly vented to the atmosphere and that all combustion air supplied to burner be drawn from the outside atmosphere. (See Installing Vent Assembly.)

IMPORTANT: If this furnace is to be connected to a common duct system also serving a cooling unit, a manual or automatic damper is required to prevent any cold conditioned air from circulating back into the furnace. Cold air passing over the furnace combustion chamber during the operation of the cooling unit can result in the formation of condensation inside the furnace combustion chamber. This condensation may promote corrosion and premature failure of the combustion chamber.

NOTE: These furnaces shall be installed so the electrical components are protected from water.

These furnaces are design certified for Propane/LP gas only. Do not attempt to convert to natural gas.

Gas supply pressure for purposes of input adjustment:

Minimum - 11" W.C.* Maximum - 13" W.C.*
(W.C.* - Water Column)

In the U.S.A., the installation of the furnace must be in accordance with local codes and regulations. In the absence of local codes and regulations, refer to the latest edition of:

1. Standard for Recreational Vehicles ANSI A-119.2/NFPA 501C.
2. National Fuel Gas Code ANSI Z223.1.

3. Furnace must be electrically grounded in accordance with the latest edition of the National Electrical Code ANSI/NFPA No. 70.

This unit is equipped with an electric ignitor device that has an energy consumption of .1 amp @ 12 volts D.C.

In Canada, the furnace must be installed in accordance with:

1. Standard CAN/CSA Z240 - Recreational Vehicles.
2. CSA Standard CAN/CSA Z240.6.2-M86 - Electrical Requirements for Recreational Vehicles.
3. Standard CAN/CSA Z240.4.2-M86 - Installation Requirements for Propane Appliances and Equipment in Recreational Vehicles.
4. CAN/CGA B149 Installation Codes.
5. Any applicable local codes and regulations.

Return Air

There are three methods described below for installing the furnace. Regardless of the method you choose, we require that a permanent opening be provided in the interior cabinetry of the coach directly in front of the furnace. The opening must allow for free, unobstructed removal of the furnace. This opening may be used as a means of providing circulating return air to the furnace. Other openings may be used as well. The minimum return air to the furnace must total 55 square inches free area. It is important that adequate return air be provided to assure normal heating and operation of the furnace. Failure to provide the minimum return air will cause erratic furnace cycling.

A. INSTALLATION DIRECTLY AGAINST OUTER SKIN OF COACH (See Figure 1.)

Maximum wall thickness for this type installation is 3".

1. Locate the furnace near lengthwise center of the coach. Do not install the furnace with the vent facing toward the forward end of the coach.
2. Choose a location for installation out of the way of wires, pipes, etc. which might interfere with the installation. Adhere to the minimum clearances from the cabinet to combustible construction as listed in Table 1.

NOTE: Side and top clearances may be 0" for through the wall installations up to a maximum wall thickness of 3". (See Figure 1.)

3. When an appliance is installed directly on carpeting, tile or other combustible material, other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance. If preferred, the carpeting, tile or combustible materials, other than wood may be cut away the full length and depth of the appliance plus the appliance minimum clearances to combustibles. (See Table 1.)

4. Cut an opening through the inner wall 12 7/16 x 13". This will allow the rear of the furnace to be installed against the outer skin of the coach. (See Figure 1.)
5. Cut two 2 1/4" diameter holes through the outer skin of coach as shown in Figure 1.

6. Put furnace in place, making sure that rear of furnace cabinet is as close to outer skin of coach as possible and still assure proper vent tube overlap. (See Installing Vent Assembly.)

7. Fasten furnace to floor of coach using the two (2) holes provided in the front plenum area of furnace cabinet. (See Figure 1.)

8. Install vent assembly. (See instructions for installing vent.)

B. INSTALLATION DIRECTLY AGAINST INNER WALL OF COACH (See Figure 2)

Maximum wall thickness for this type installation is 2 1/4".

1. Locate the furnace near lengthwise center of the coach. Do not install the furnace with the vent facing toward the forward end of the coach.
2. Choose a location for installation out of the way of wires, pipes, etc. which might interfere with the installation. Adhere to the minimum clearances from the cabinet to combustible construction as listed in Table 1. Refer to Figure 3 for illustration of furnace clearances.
3. When an appliance is installed directly on carpeting, tile or other combustible material, other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance. If preferred, the carpeting, tile or combustible materials, other than wood may be cut away the full length and depth of the appliance plus the appliance minimum clearances to combustibles. (See Table 1.)
4. Locate center lines for exhaust and intake tubes as shown in Figure 1. Cut two 2 3/4" diameter holes through coach wall for exhaust and intake. (See Figure 2.)
5. Put furnace in place, making sure that rear of furnace cabinet is as close to inner wall of coach as possible and still assure proper vent tube overlap. (See Installing Vent Assembly).
6. Fasten furnace to floor of coach using the two holes provided in front plenum area of furnace cabinet. (See Figure 1.)
7. Install vent assembly. (See instructions for installing vent.)

C. INSTALLATION USING VENT EXTENSION TUBES

When it is not possible to install the furnace as described in installations A or B, extension tubes must be used to connect the exhaust and intake tube to the vent assembly on the outside of the coach.

Avoid the use of extension tubes whenever possible. If they must be used, it is important that the correct length tubes are used.

In order to determine the correct extension tube kit, you must determine the range in which the extension falls. To do this, position the furnace in its permanent location and measure the distance from the end of the exhaust and intake tube to the outer edge of the coach skin. This determines the extension tube range you need. Figure 4 lists by kit number the vent extension range up to 9'.

Example: If the distance you measured is 2 7/8", using Figure 4as your guide, You will order Kit #520498, which accommodates a range from 2 1/4" to 3 1/8". The extension tube kit comes with complete installation instructions.

WARNING! Under no circumstances are the extension tubes, as supplied by Suburban, to be cut, altered, or modified in any way. To do so could be dangerous and will void the responsibility of Suburban Manufacturing Company.

Model	Front	Left Side	Right Side	Top	Bottom	Back	Exhaust and Intake Tube
NT-24SP	0"	1"	1"	0"	0"	0"	3/8"
NT-30SP	0"	1"	1"	0"	0"	0"	3/8"
NT-34SP	0"	2"	2"	0"	0"	0"	3/8"

-NOTE-
0" MEANS TO SPACER BUMPS
CLEARANCE FROM DUCTS TO
COMBUSTIBLE MATERIAL - 1" (See Figure 3)

TABLE 1

INSTALLING VENT ASSEMBLY

The vent outlet must be installed so it is in the same atmospheric pressure zone as the combustion air intake. The exhaust and intake tubes must be installed from the outside, pass through the RV skin and slide 3/4" into the furnace exhaust and intake.

WARNING! Do not alter the vent assembly supplied with this furnace. Any modifications will result in improper installation which could cause unsafe furnace operation.

CAUTION! Combustion air must not be drawn from the living area. All air for combustion must be drawn from the outside atmosphere. All exhaust gases must be vented to the outside atmosphere - never inside the RV. Therefore, it is essential to insure that the vent cap and tube assemblies are properly installed.

1. Apply caulking to RV skin behind vent cap as shown in Figure 2. Apply caulking generously around perimeter of vent cap and across center as shown.
2. Insert intake tube through RV skin and slide it onto the furnace intake. (See Figure 2.) Minimum tube overlap of 1/2" is required.
3. Insert vent cap exhaust tube through RV skin and slide it onto the furnace exhaust. (See Figure 2.) Minimum tube overlap of 1 1/4" is required.
4. Attach vent cap assembly to outer skin of RV with the six (6) screws provided. Do not install vent assembly upside down. The words "Suburban" and "Dayton, Tenn." must be right side up.
5. Attach the vent assembly to the furnace using the special 3 1/2" screw provided. Insert screw through hole provided in exhaust opening of vent assembly and secure to bracket in exhaust tube of furnace. This anchors the furnace to the vent assembly and the outer skin of the RV. (See Figure 2.)

CONNECTING GAS SUPPLY

Connect the gas supply to the furnace at the manifold, following the suggestions outlined below. It will be necessary to hold the flare fitting on the furnace manifold when connecting or loosening gas line.

NOTE: The compound used on threaded joints must be resistant to liquefied petroleum (L.P.) gas.

NOTE: The appliance must be disconnected from the gas supply piping system during any pressure testing of that system at test pressure in excess of 1/2 PSIG. The appliance must be isolated from the gas supply piping during any pressure testing of the gas supply piping system at test pressure equal to, or less than, 1/2 PSIG.

1. Be sure that the gas fitting is outside of the furnace jacket and easily accessible. (See Figure 1.) The fitting may be connected directly to the 90° elbow at the gas inlet to the furnace. To assure an airtight seal, be sure the gasket provided with the furnace is installed between the fitting and the furnace cabinet, as illustrated in Figure 1. If this gasket is omitted, it could result in overheating of component parts within the furnace.
2. In order to maintain a check on gas supplied pressure to the furnace, a 1/8" NPT plug tap must be installed and accessible for test gauge connection immediately upstream of the gas supply connection to the furnace.
3. After the furnace has been connected to the gas supply, all joints must be checked for leaks.

WARNING! Never check for leaks with an open flame. Turn on the gas and apply soapy water to all joints to see if bubbles are formed.

CONNECTING ELECTRICAL SUPPLY

CAUTION: This furnace is designed for negative ground 12 volt D.C. system only. Do not attempt to alter the furnace for a positive ground system or connect the furnace directly to 115 volts A.C. Damage to furnace component parts will occur.

Be sure all wiring to the furnace is of heavy enough gauge to keep the voltage drop through it to a minimum and to provide enough power for start-up surge. No. 12 gauge wire is recommended.

If any of the original wire that is supplied with the appliance must be replace, it must be replaced with Type 105°C or its equivalent.

Connect the power supply to the quick connect pigtail on the right side of the furnace. The wires are color coded, red for positive (+) and yellow for negative (-). This polarity must be observed so the furnace motor will run with the proper direction of rotation to insure correct air delivery. (See wiring diagram.)

If the furnace power supply is to be from a converter, we recommend that the converter system used to power the furnace be wired in parallel with the battery. This will service two purposes.

1. Provide a constant voltage supply to the furnace.
2. Filter any A.C. spikes or volt surges.

CONNECTING DUCTS TO FURNACE

The following duct requirements must be followed in order to assure proper operation of the furnace:

1. For Models NT-24SP and NT-30SP, maintain a minimum of 36 square inches open duct area throughout entire duct system including through register. (Minimum 3 ducts - 4" diameter.)
- For Model NT-34SP, maintain a minimum of 48 square inches open duct area throughout entire duct system including through register. (Minimum 4 ducts - 4" diameter.)

On all models, maintain a minimum of 48 square inches throughout entire duct system including through register when under floor ducting is used.

NOTE: Ducts terminating in a dead air space (like holding tank compartments) with no means for return air recirculation should not be counted in the required duct area. Also, ducts 2" in diameter or smaller should not be counted in the required duct area.

2. Make the duct connections at the furnace cabinet tight. Loose connections will result in overheating of the component parts on the furnace and a reduction of the heated air flow through the duct system.
3. Avoid making any sharp turns in the duct system. Sharp turns will increase the static pressure in the plenum area and could cause the furnace to cycle.
4. Avoid making a lot of turns in the duct system. The straighter the duct system, the better the performance of the furnace.
5. Maintain a minimum of 1" clearance where ducts pass through any combustible construction such as, coach cabinetry. (See Figure 3.) NOTE: UL listed duct materials can be "0" clearance.

6. Do not install air boosters in the duct system. Such devices will cause the furnace to cycle on limit and cause erratic sail switch operation.

NOTE: After installation of the furnace and duct system is completed, adjustments must be made to obtain a temperature rise within the range specified on the Rating Plate.

INSTALLING THERMOSTAT

Locate the room thermostat approximately 4 1/2 feet above the floor on an inside bulkhead where it is not affected by heat from any source except room air. Connect thermostat wires to the blue wires leaving power supply plug on right side of furnace. (See wiring diagram.)

PREVENTIVE MAINTENANCE

WARNING! If the user of this appliance fails to maintain it in the condition in which it was shipped from the factory or if the appliance is not used solely for its intended purpose or if appliance is not maintained in accordance with the instructions in this manual, then the risk of a fire and/or the production of carbon monoxide exists which can cause personal injury, property damage or loss of life.

CAUTION: Label all wires before disconnecting for servicing. Proper polarity must be observed so the furnace motor will run with the proper direction of rotation to insure correct air delivery. (See wiring diagram).

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring error can cause improper and dangerous furnace operation.

Always verify proper operation of furnace after servicing.

Your furnace should be inspected by a qualified service agency yearly before turning the furnace on. Particular attention should be given to the following items:

1. Inspect furnace installation and vent termination to be sure furnace is properly secured in place. (See Installation Instructions), that vent terminates to the atmosphere, and that vent tubes overlap properly. (See Installing Vent Assembly.)
2. Inspect chamber and venting to assure that these components are physically sound, without holes or excessive corrosion and that the installation and/or reinstallation is in accordance with Suburban's installation instructions. (Reference installation manual supplied with furnace.)

WARNING! It is imperative that the products of combustion be properly vented to atmosphere and that all combustion air supplied to burner be drawn from outside atmosphere.

3. Check the base on which furnace is mounted. Be sure it is physically sound, void of any sagging, deterioration, etc.
 4. Inspect furnace, the venting, ducting and gas piping to furnace for obvious signs of deterioration. Correct any defects at once.
 5. Inspect combustion chamber for restrictions in exhaust or intake. It is imperative that the flow of intake combustion air and the flow of exhaust gases being expelled to the outside atmosphere not be obstructed. Any soot or loose debris should be blown out using compressed air. (See Figure 8.)
 6. Inspect all gaskets. If any gaskets show signs of leakage or deterioration, replace them. Safe operation of the furnace depends on all gaskets being tight.
 7. Inspect return air inlet openings to the furnace. Remove any restrictions to assure adequate air flow.
- You, as the owner/user, should inspect the furnace monthly during the heating season for presence of soot on vent.** Operating the furnace under this condition could lead to serious property damage, personal injury or loss of life. If soot is observed on the vent, immediately shut the furnace down and contact a qualified service agency.
- Listed below are several safety related items that you should follow during the heating season to assure continued safe operation of the furnace.
1. Inspect furnace venting. Venting must be free of obstructions, void of soot, and properly terminated to the atmosphere. (See Installing Vent Assembly.)

WARNING! Do not install screens over the vent for any reason. Screens will become restricted and cause unsafe furnace operation. Accessories are being marketed for RV products which we do not recommend. For your safety, only factory authorized parts are to be used on your furnace.

2. Periodically inspect the vent for obstructions or presence of soot. Soot is formed whenever combustion is incomplete. This is your visual warning that the furnace is operating in an unsafe manner. If soot is present, immediately shut furnace down and contact your dealer or a qualified service person.

3. Periodically observe the main burner flame to assure it is burning with a hard blue flame with well defined burner ports. (See Figure 9). If flame appears yellow or burner has a lazy flame, shut furnace down. It is possible that burner needs cleaning or replaced. To inspect the main burner, remove the four (4) screws (A, B, C and D) securing the burner access door to the combustion chamber (See Figure 7). If excessive rust and corrosion are present on burner surface, the burner must be thoroughly cleaned or replaced. The burner may be cleaned using a steel wire brush and blown clean using high compression air. Contact a qualified service person for assistance.

NOTE: To observe flame, cabinet front must be removed. Operation of burner can then be observed through the viewing window on front of chamber (See Figure 7).

4. Keep furnace clean. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.
5. The motor is permanently lubricated and requires no oiling.
6. Keep the furnace area clear of any combustible materials, gasoline or other flammable vapor and liquids.
7. Before operating furnace, check the location of the furnace vent to make sure it will not be blocked by the opening of any door on the trailer. If it can be blocked, do not operate the furnace with the door open.
8. Do not restrict the flow of combustion air or the warm air circulation to the furnace. To do so could cause personal injury and/or death.
9. Never operate the furnace if you smell gas. Do not assume that the smell of gas in your RV is normal. Any time you detect the odor of gas, it is to be considered life threatening and corrected immediately. Extinguish any open flames including cigarettes and evacuate all persons from the vehicle. Shut off gas supply at LP gas bottle. (See safety notice on front cover of this manual.)
10. Immediately shut furnace down and call a service agency if furnace cycles erratically or delays on ignition.

WARNING! Should overheating occur, or the gas supply fail to shut off, shut off the manual gas valve to the appliance before shutting off the electrical supply.

11. Never attempt to repair damaged parts. Always have them replaced by a qualified service agency.
12. Never attempt to repair the furnace yourself. Seek the help of a qualified service person.
13. Never restrict the ducting installed by your trailer manufacturer. To do so could cause improper furnace operation.
14. Do not install air boosters in the duct system. Such devices will cause the furnace to cycle on limit and to have erratic sail switch operation.
15. Clothing or other flammable material should not be placed on or near the appliance.
16. Always follow the operating instructions. Do not deviate from the step-by-step procedures.
17. Do not use this appliance if any part has been submerged under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been submerged under water.
18. In any installation in which the vent of this appliance can be covered due to the construction of the RV or some special feature of the RV such as slide out, pop-up etc. always insure that the appliance cannot be operated by setting the thermostat to the positive "OFF" position and shutting off all electrical and gas supply to the appliance. Never operate furnace with vent covered.

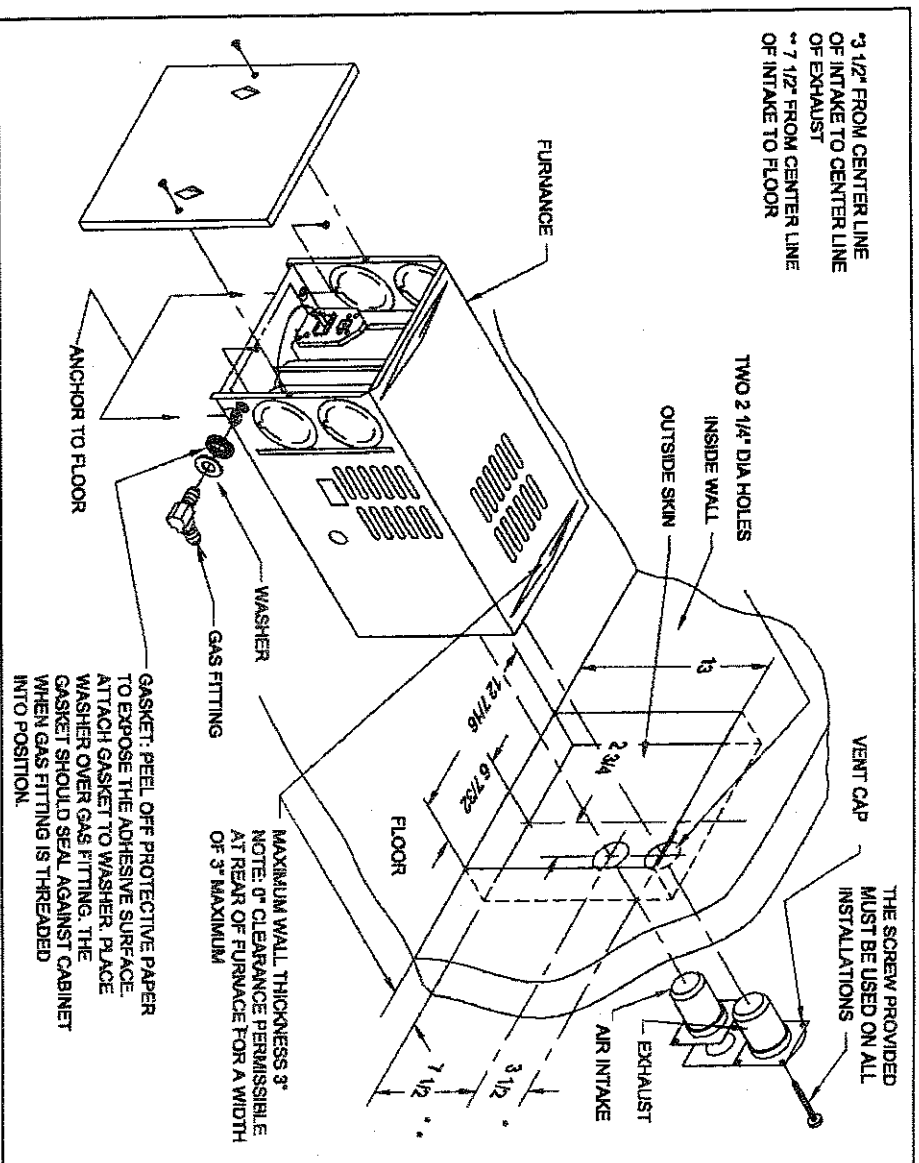


Figure 1

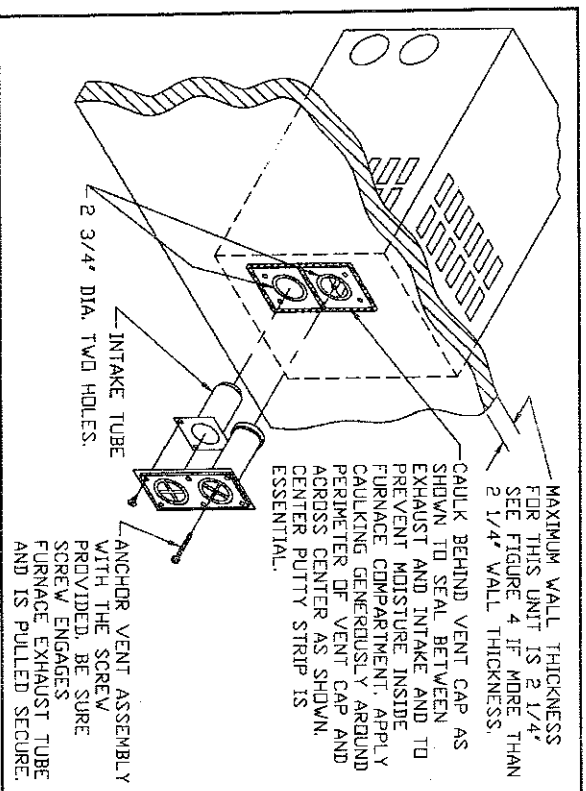


Figure 2

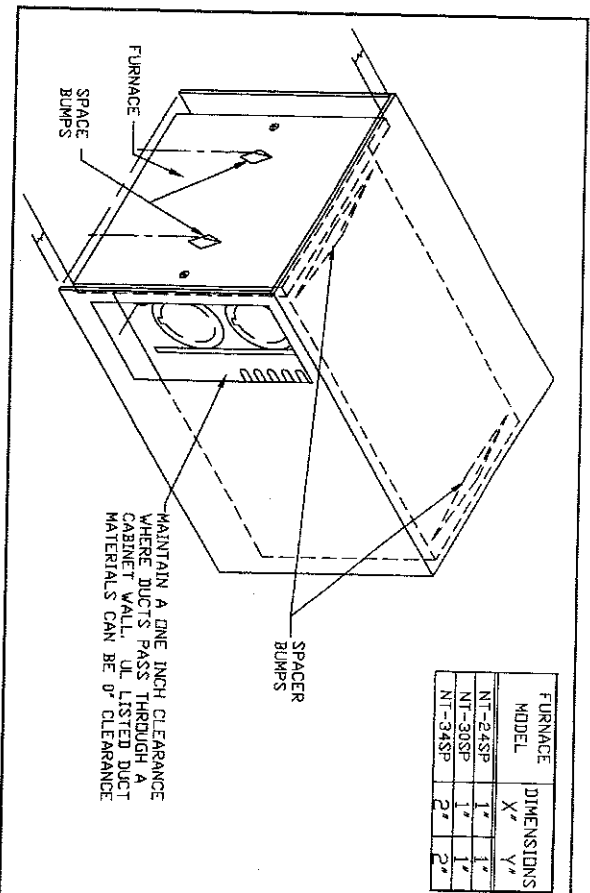
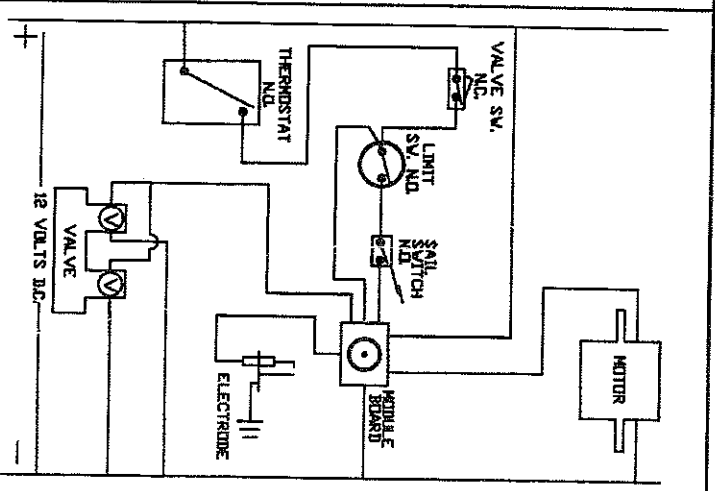
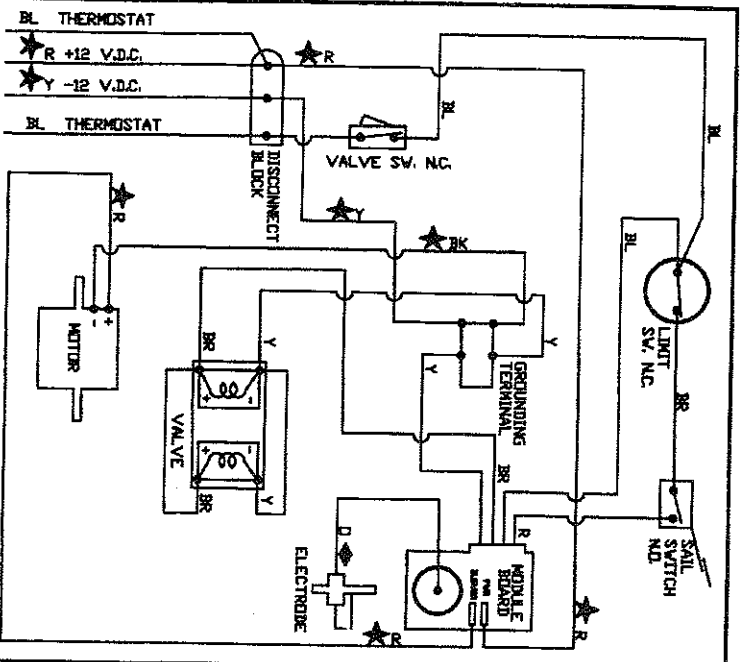


Figure 3

EXTENSION TUBE KIT NUMBER	MIN./MAX. LENGTH (Extension Tube Range)
520498	2-1/4" to 3-1/8"
520499	3-1/8" to 4-7/8"
520500	4-7/8" to 7"
520501	7" to 9"

Figure 4



CODE	COLOR
D	DRANGE
BK	BLACK
BR	BROWN
BL	BLUE
R	RED
Y	YELLOW
G	GREEN

ALL WIRES ARE 18 AWG UNLESS OTHERWISE SPECIFIED
NOTE: IF ANY OF THE ORIGINAL WIRES AS SUPPLIED
WITH THE APPLIANCE MUST BE REPLACED, IT MUST
BE REPLACED WITH WIRING MATERIAL HAVING A
TEMPERATURE RATING OF AT LEAST 105° C.
◆ NO. 18 250°C RADIX WIRE UL-3257

★ 14 AWG 105°C THERMOPLASTIC
APPLICABLE ONLY TO THE MODELS
LISTED BELOW/
NT-34SP
NT-40

340512

Figure 5

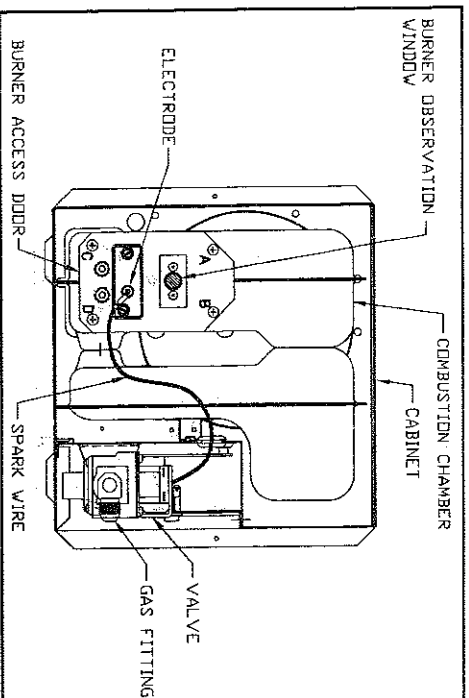


Figure 7

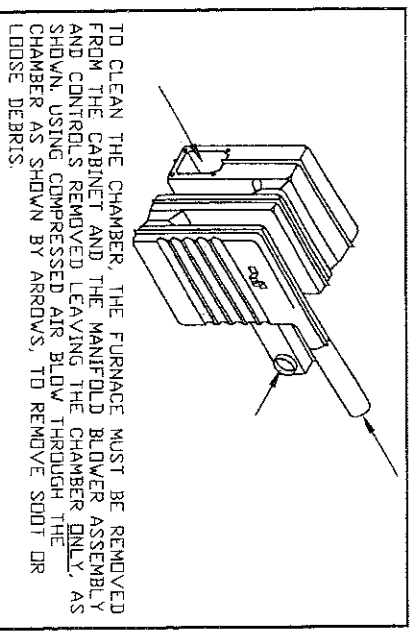


Figure 8

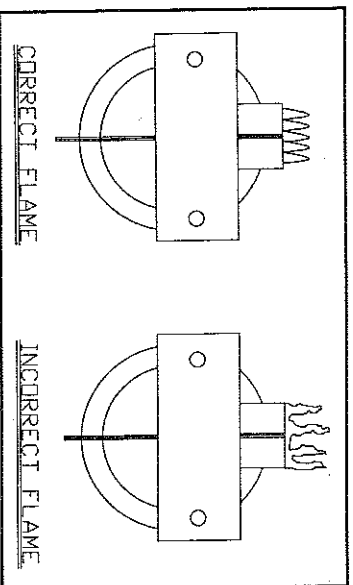


Figure 9

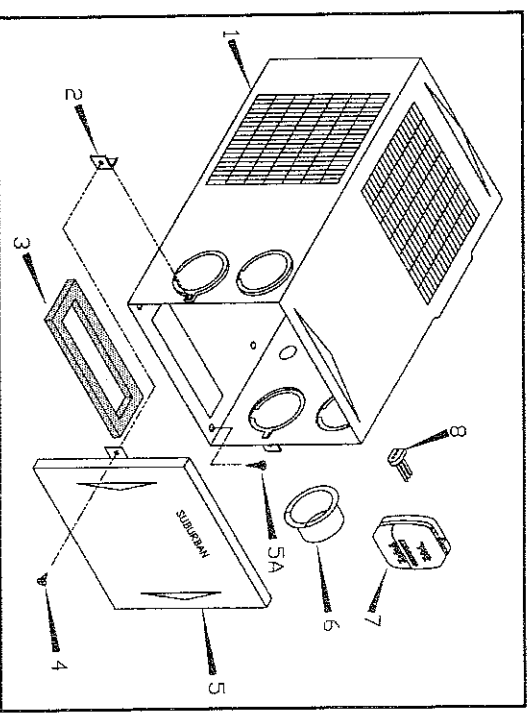


Figure 10

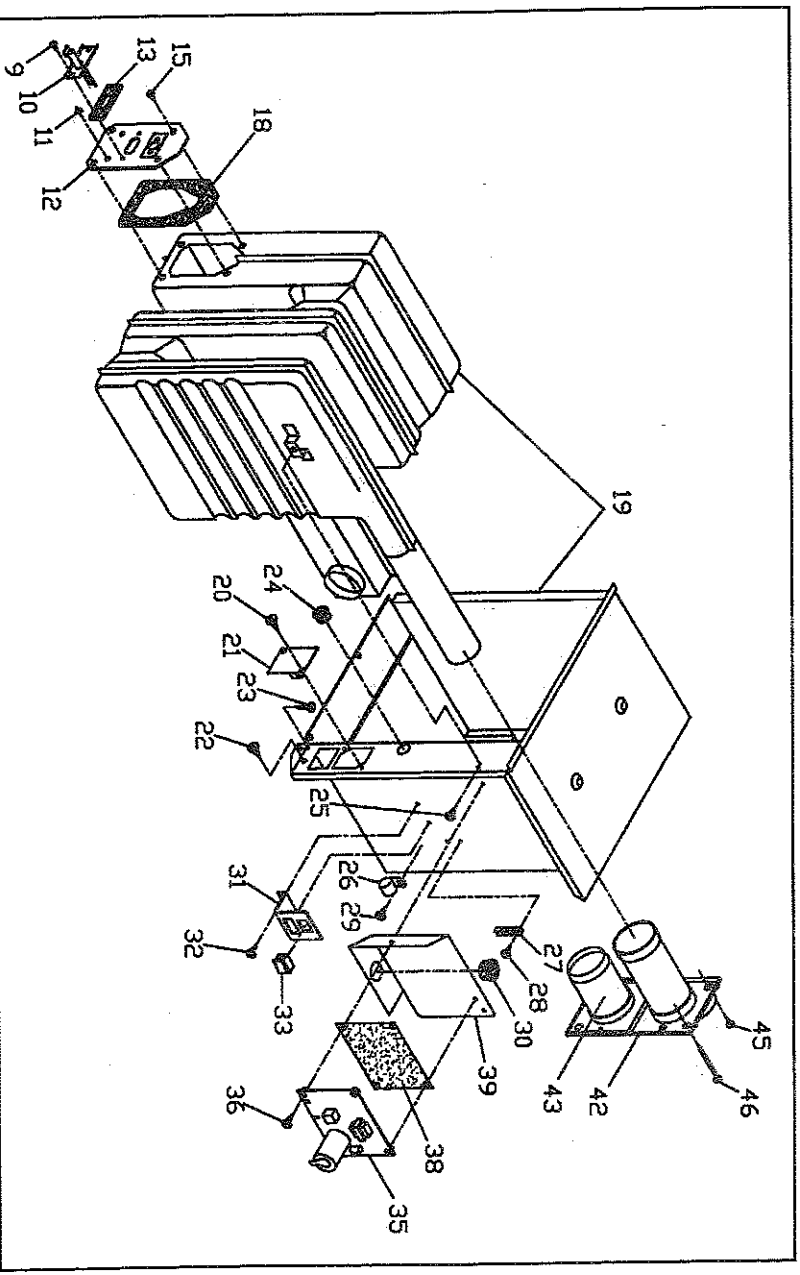


Figure 11

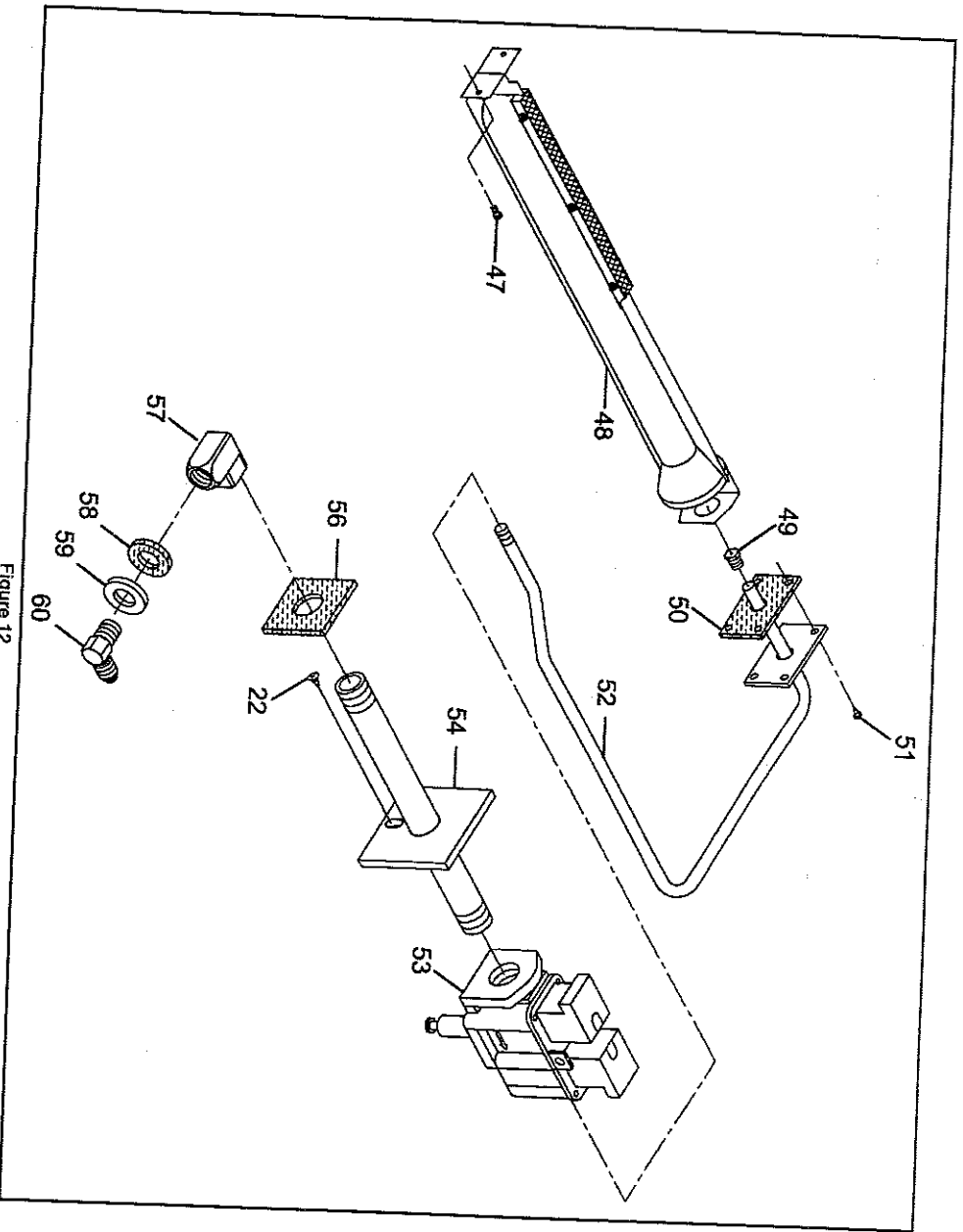


Figure 12

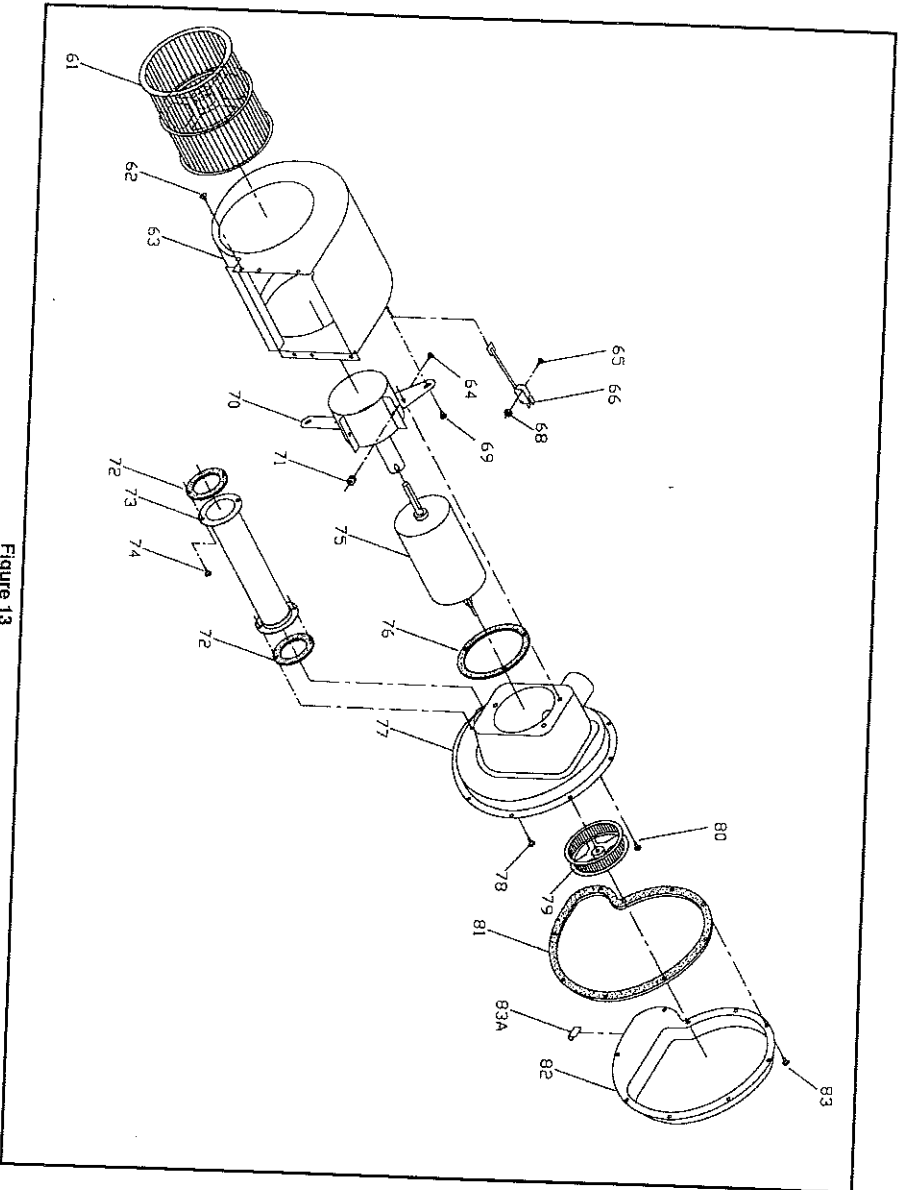


Figure 13

REPLACEMENT PARTS LIST

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

When ordering repair parts from your dealer, a Suburban Service Center, or distributor, always give the following information:

1. Part Number (Not Item No.)
2. Part Description
3. Model Number, Serial Number, and Date Code of Furnace
4. Number of Parts Required

Item No.	Description	Part Number	Item No.	Description	Part Number
1	Cabinet Assembly	101874	45	Screw, #10 x 3/4 (6 Required)	121853
2	Fastener, Timmerman (2 Required)	121662	46	Screw, Vent Exhaust Tube	121711
3	Gasket, Bottom Duct Adaptor (Required Only if Bottom Ducting is used)	062164	47	Screw, #10 - 24 x 1/2 (2 Required)	121459
4	Screw, #10 - 24 x 1/2 (2 Required)	121227	48	Burner Assembly	010701
5	Cabinet Front (NT-24SP)	10187SDG	49	Orifice, Main Burner (NT-24SP)	180215
	Cabinet Front (NT-30SP)	10187IDG		Orifice, Main Burner (NT-30SP)	180214
5A	Cabinet Front (NT-34SP)	101873DG	50	Orifice, Main Burner (NT-34SP)	180222
6	Screw, #10 x 3/4 (2 Required)	121224	51	Gasket, Manifold	070408
	Duct Collar (3 Required on Models NT-24SP and NT-30SP, 4 Required on Model NT-34SP)		52	Screw, #10 x 1/2 (4 Required)	121388
7	Thermostat	050715	53	Manifold Pipe	171468
8	Power Supply Harness	161154	54	Valve	161123
9	Screw, #8 - 32 x 3/8 (2 Required)	520322	55	Pipe Assembly, Gas Inlet (Includes Item 57)	171434
10	Electrode	121407	56	Gasket, Gas Inlet Pipe	071034
11	Nut, 10 - 24 Hex (2 Required)	231933	57	Elbow, 90°	171428
12	Burner Access Door	120717	58	Gasket, Disc Cover	070534
13	Gasket, Electrode	030764	59	Disc Cover, Gas Inlet	062408
15	Screw, #10 x 1/2 (4 Required)	070163	60	Gas Fitting	170374
18	Gasket, Burner Access Door	121388	61	Wheel, Room Air	350113
19	Combustion Chamber Assembly (NT-24SP)	070398	62	Screw, #10 x 3/8 (4 Required)	121262
20	Combustion Chamber Assembly (NT-30SP and NT-34SP)	020922BK	63	Blower Housing Assembly	390283BK
21	Screw, #10 x 3/8 (2 Required)	121252	64	Screw #10 - 24 x 1/2 (3 Required)	121227
	Limit Switch (NT-24SP)	231626	65	Microswitch and Paddle Assembly (NT-24SP)	230510
	Limit Switch (NT-30SP)	231244	66	Microswitch and Paddle Assembly (NT-30SP, NT-34SP)	230509
22	Screw, #10 x 3/8	230496	68	Screw #2 - 56 x 5/8 (2 Required)	121247
23	Screw, #8 x 3/8	121252	69	Nut #2-56 (2 Required)	121951
24	Bushing	120158	70	Screw, #10 x 1/2 (3 Required)	121388
25	Screw, #10 x 3/8 (2 Required)	070362	71	Bracket, motor Mount (3 Required)	062138
26	Wire Clamp	121252	72	Nut, #10 - 24 Hex Keps (3 Required)	120717
27	Splicer	060270	73	Gasket, Crossover Tube (2 Required)	070385
28	Screw, #6 x 1/4 (2 Required)	230714	74	Crossover Tube	050751
29	Screw, #8 x 3/8	121244	75	Screw #10 x 1/2 (2 Required)	121388
30	Bushing	120158		Motor Assembly (NT-24SP)	231206
31	Bracket, Power Supply	230218		Motor Assembly (NT-30SP)	231207
32	Screw, #10 3/8 (2 Required)	063248	76	Motor Assembly (NT-34SP)	231208
33	Switch, ON/OFF	121252	77	Gasket, Motor Mount	070384
35	Module Board	232351		Housing, Combustion Air Assembly (NT-24SP, NT-30SP)	390179BK
36	Screw, #6 x 5/8 (2 Required)	520820		Housing, Combustion Air Assembly (NT-34SP)	390410BK
38	Insulator, Module Board	121357	78	Screw, #10 x 1/2 Hex Washer Hd. (2 Required)	121974
39	Panel Board Mounting	070807	79	Wheel, Combustion Air	350110
42	Vent Cap and Exhaust Tube Assembly	090301	80	Screw, #10 x 1/2 Hex Washer Hd. (3 Required)	121974
43	Intake Tube Assembly	260164	81	Gasket, Combustion Air Housing	070386
		050906	82	Housing, Combustion Air (Outside)	390424
			83	Screw, #10 x 1/2 (9 Required)	121388
			83A	Timmerman	121712