MONACO

HVAC SERVICE MANUAL

CONTENTS

Specific Climate Systems, Inc.

SPECIFIC CLIMATE SYSTEMS, INC.
PUBLICATION 057-00268 SEPTEMBER 2003

I BASIC PRINCIPLES

Vehicle air conditioning is the cooling or refrigeration of the air in the passenger compartment. Refrigeration is accomplished by making practical use of certain laws of nature. These laws and their application are outlined in the following paragraphs.

If two substances of different temperature are placed near each other, the heat in the warmer substance will always travel to the colder substance until both are of equal temperature. For example, a cake of ice in an ice box does not communicate its coldness to the bottle of milk standing nearby. Rather, the heat in the warm milk automatically flows into the ice.

To determine the amount of heat that transfers from one substance to another, science uses the British Thermal Unit or BTU. One BTU is the amount of heat required to raise the temperature of one pound of water one degree Fahrenheit (at sea level). For example, to raise the temperature of one pound of water from 32°F to 212°F, one BTU of heat must be added for each 1 °F rise in temperature for a total of 180 BTU's required. Conversely, in order to lower the temperature of one pound of water from 212°F to 32°F, 180 BTU's of heat must be removed from the water.

There are three basic "states" or conditions in which most materials can exist; namely, solid, liquid, or gaseous. Conversion from one state to another can be accomplished by a change in temperature and / or pressure. When a change of state occurs for a substance a fixed amount of heat must be added to complete the change and the temperature will remain constant until all of the substance has completed the conversion. While within any given state the substance will absorb heat with an accompanying rise in temperature. The heat added to one (1) pound of a given material to raise its temperature one (1) degree F is called the Specific Heat of the material.

Consider the existence of water in its three states; ice, liquid, and steam. For the purpose of illustration we will imagine one pound of ice at 0° F is placed in a container over a flame. The Specific Heat of ice is 0.5. Therefore, 16 BTU's are required to raise one pound of pure ice from 0° F to 32° F (see Fig 1). This is the highest temperature at which the ice can exist, therefore an addition of heat will cause melting to occur. The amount of heat required to melt one pound of ice into one pound of 32° F water is 144 BTU and is known as the "Latent Heat of Fusion". The total heat added thus far is 160 BTU's (16 + 144).

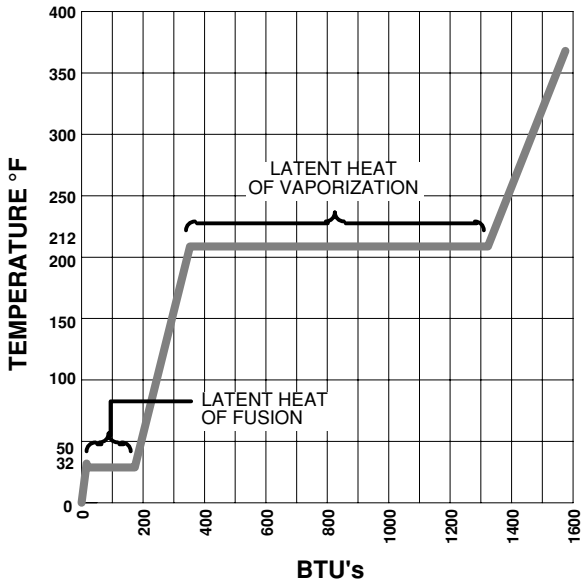


FIGURE 1

The Specific Heat of water is 1.0. Therefore, with each BTU of heat that the water absorbs from the flame, its temperature rises 1° F. Thus, after it has absorbed 180 Btu's of heat, the water reaches a temperature of 212°F. Our total heat added is now 340 BTU's (16 + 144 + 180). At 212° F another change of state takes place: the water turning to steam. Again an additional amount of heat must be added to accomplish the change of state, in this case 970 BTU's. The water and steam will both remain at 212° F until all of the water is evaporated. The heat required to cause this state change is called the Latent Heat of Vaporization (heat added without a resultant temperature change). Our total heat added is now 340 + 970 or 1310 BTU's.

The last part of our experiment demonstrates that when a liquid boils (changes to a gas) it absorbs heat without raising the temperature of the resulting gas. Reversing the process, when the gas condenses (changes back to a liquid), it gives off heat without lowering the temperature of the resulting liquid. The most efficient transfer of heat occurs during these changes of state. BTU's are absorbed during Evaporation and given off during Condensation. The quantity of BTU's transferred in this manner is called "Latent (hidden) Heat" and cannot be measured with a thermometer.

Water has a latent heat of vaporization of 970 BTU's and a boiling point of 212°F. This means that one pound of water at 212°F will absorb 970 BTU's of heat in changing to vapor at 212°F. Conversely, the vapor will give off 970 BTU's of heat in condensing back to water at 212°F. This heat given off is called the Latent Heat of Condensation.

Since water is the most common compound, it is well suited to describe a refrigerating process which utilizes the latent heat of vaporization. All other refrigerants perform in exactly the same manner as does water; the difference being in the values of latent heat of vaporization, pressure-temperature relationships, specific heat, etc.

For a liquid to be an efficient refrigerant, it must have a low boiling point (the point at which evaporation occurs). That is, the temperature at which it boils must be lower than the substance to be cooled. Refrigerant-134a is the liquid most commonly used in modern vehicle air conditioning systems because at any temperature above –15.1°F it will make a change of state, become vaporized, and thereby absorb great quantities of heat from inside the vehicle.

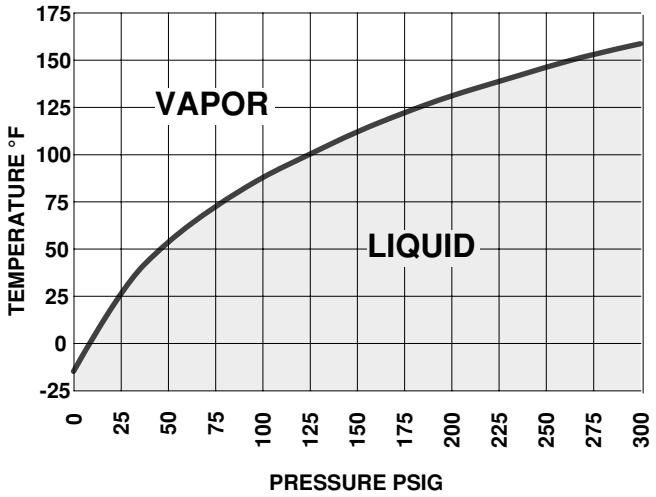


FIGURE 2

It is important to note that, as with all refrigerants, the pressure of R-134a has a fixed relationship to its temperature (see Fig. 2). We mentioned that R-134a vaporizes at a low temperature and absorbs great quantities of heat. This is because it is under very low pressures at the point in the system (the evaporator) where the cooling occurs. This temperature is much lower than the temperature of the air inside the vehicle; therefore, the heat will travel to the colder R-134a. As the heat is absorbed, the R-134a vaporizes and carries the heat to the condenser. At this point, the R-134a is at a high temperature because its pressure has been elevated by the compressor. Its temperature is, in fact, higher than that of the air passing through the condenser. The heat again flows from the warmer (refrigerant) to the cooler (air) and is released outside the vehicle. By giving off heat, the R-134a condenses back to a liquid and the process starts over again.

As we have seen, the basic principles involve the transfer of heat (warmer to cooler), changes of state (evaporation and condensation), and R-134a's suitability to the process. A discussion of each components role in the refrigeration cycle follows.

II AIR CONDITIONER COMPONENTS

Compressor

Commonly referred to as the heart of the system, the compressor is a belt driven pump that is mounted on the engine. It is responsible for compressing and transferring refrigerant gas. The A/C system is split into two sides, a high pressure side and a low pressure side; defined as discharge and suction. Since the compressor is a pump, it must have an intake side and a discharge side. The intake, or suction side, draws in refrigerant gas from the outlet of the evaporator. Once the refrigerant is drawn into the suction side, it is compressed and sent to the condenser, where it can then transfer the heat that is absorbed from the inside of the vehicle.

Condenser

This is the area in which heat dissipation occurs. As the compressed (therefore heated) gas is introduced into the top of the condenser, it is cooled off. As the gas cools, it condenses and exits the bottom of the condenser as a high pressure liquid.

Condensers must have good air flow anytime the system is in operation. On front engine motorhomes the air conditioning condenser is usually located in front of the radiator, taking advantage of the existing engine's cooling fan. Air flow is sometimes supplemented with an electric fan. On rear engine models, condenser air flow is usually provided by one or more electric fan.

Receiver-Drier

The receiver-drier is located between the outlet of the condenser and the inlet of the expansion valve. This type of metering valve requires liquid refrigerant. To ensure that the valve gets liquid refrigerant, a receiver is used. The primary function of the receiver-drier is to separate gas and liquid. The secondary purpose is to remove moisture and filter out dirt. A desiccant bag is mounted inside the receiver-drier to absorb moisture that may have accumulated in the system. Even one drop of moisture will cause an air conditioning unit to malfunction.

The receiver-drier usually has a sight glass in the top. This sight glass was formerly used to charge the system. Under normal operating conditions, vapor bubbles should not be visible in the sight glass. The use of the sight glass to charge the system is not recommended in R-134a systems as cloudiness and oil that has separated from the refrigerant can be mistaken for bubbles. This type of mistake can lead to a dangerous overcharged condition.

Expansion Valve

The expansion valve is located at the entrance of the evaporator. It meters refrigerant into the evaporator according to cooling requirements. The restrictive effect of the expansion valve, while limiting the refrigerant flow to the evaporator, results in the reduced evaporator pressure. The expansion valve consists of the valve and a temperature sensing capillary tube and bulb. The valve is connected to the inlet tube of the evaporator and the sensing bulb is clamped to the outlet tube of the evaporator.

The expansion valve is opened and closed by opposing pressures on either side of a diaphragm. The temperature sensing bulb which is clamped to the evaporator outlet tube usually contains R-134a. As evaporator outlet temperature rises, the R-134a in the sensing bulb expands and exerts pressure against the diaphragm to open the valve further and admit more refrigerant into the evaporator for increased cooling. As evaporator outlet temperature falls, the pressure against the diaphragm is decreased. Inlet pressure on the opposite side of the diaphragm then starts closing the valve. Sometimes the expansion valve is externally equalized by a capillary tube connected to the evaporator coil to allow evaporator outlet pressure rather than inlet pressure to oppose the pressure in the sensing bulb. The valve tends to seek a position to control the R-134a flow to maintain near maximum cooling from the evaporator.

Evaporator Core

The evaporator serves as the heat absorption component. Its primary duty is to remove heat from the inside of the vehicle. Refrigerant leaving the expansion valve enters the evaporator as a low pressure liquid. The warm air passing through the evaporator fins causes the refrigerant to boil (refrigerants have very low boiling points). As the refrigerant begins to boil, it can absorb large amounts of heat. This heat is then carried off with the refrigerant to the outside of the vehicle.

A secondary benefit is dehumidification. As warmer air travels through the aluminum fins of the cooler evaporator coil, the moisture contained in the air condenses on its surface. Dust and pollen passing through stick to its wet surfaces and drain off to the outside.

Thermostatic (De-lcing) Switch

The de-icing switch (thermostat) is used along with the control assembly to control the operation of the compressor with the magnetic clutch. When the function control is in an A/C position, the electrical circuit is completed to the thermostat from the clutch switch which is integral with the control assembly.

The temperature sensing tube of the thermostat is inserted through the evaporator core fins. When the temperature of the evaporator core drops below the cut out setting, the thermostat automatically opens the magnetic clutch electrical circuit which stops the compressor. The thermostat is pre-set to maintain the evaporator core surface temperature at a level slightly above freezing which prevents evaporator icing and resulting loss of airflow.

Manual Valves

Some vehicles are equipped with manual refrigerant shut-off valves. These valves serve to isolate various parts of the system to facilitate shipment of pre-charged components. Some valves are supplied by SCS while others were installed by the chassis manufacturer. All manual valves must be fully open for the air conditioner to function properly. See “Proper Use of Manual Valves” for more information.

Service Access Gauge Port Valves

These valves are similar to a tire valve. They allow access to the system for attaching service hoses and pressure gauges. See “Attaching the Manifold Gauge Set” for more information.

III HANDLING REFRIGERANT-134a

Safety Precautions

The refrigerant used in the air conditioner system is Refrigerant-134a. R-134a is non-explosive, nonflammable, noncorrosive, has practically no odor, and is heavier than air. Although it is classified as a safe refrigerant, certain precautions must be observed to protect the parts involved and the person who is working on the unit.

CAUTION: Avoid breathing A/C refrigerant and lubricant vapor or mist. Exposure may irritate eyes, nose, and throat. To remove R-134a from the A/C system, use service equipment certified to meet the requirements of SAE J2210 (R-134a recycling equipment). If accidental system discharge occurs, ventilate work area BEFORE resuming service. Additional health and safety information may be obtained from refrigerant and lubricant manufacturers.

Liquid R-134a, at normal atmospheric pressures and temperatures, evaporates so quickly that it has the tendency to freeze anything it contacts. For this reason, be very careful to prevent any liquid refrigerant from coming in contact with the skin and especially the eyes.

R-134a is readily absorbed by most types of oil. It is therefore recommended that a bottle of sterile mineral oil and a quantity of weak boric acid solution be kept nearby when servicing the air conditioning system. Should any liquid refrigerant get into the eyes, immediately use a few drops of mineral oil to wash them out, then wash the eyes clean with a weak boric acid solution. Seek a doctor's aid immediately even though irritation may have ceased.

Always wear safety goggles when servicing any part of the refrigerant system.

The R-134a in the system is always under pressure. Because the system is tightly sealed, heat applied to any part would cause this pressure to build up excessively. To avoid a dangerous explosion, never weld, use a blow torch, solder, steam clean, bake body finishes or use any excessive amount of heat on, or in the immediate area of, any part of the air cooling system or refrigerant supply tank while they are closed to the atmosphere; whether filled with refrigerant or not. Do not heat a refrigerant container with an open flame. If the container must be warmed, place the bottom of the container in a pail of warm water.

The liquid refrigerant evaporates so rapidly that the resulting refrigerant gas will displace the air surrounding the area where the refrigerant is released. Always maintain good ventilation surrounding the work area.

Although R-134a gas, under normal conditions, is nonpoisonous, the discharge of R-134a gas near open flame can produce a very poisonous gas. This gas will also attack all bright metal surfaces. This poisonous gas is generated when the flame-type leak detector is used. Use of this type of leak detector is not recommended.

Do not intentionally drop, puncture, or incinerate refrigerant containers. Do not store or heat refrigerant containers above 125°F. All R-134a disposable (colored Blue) containers are shipped with a heavy metal screw cap to protect the valve and safety plug of the container from damage. It is a good practice to replace the cap after each use to continue protection.

Recommended Practices

When it is necessary to "open" an air conditioning system to the atmosphere, have everything needed ready so that as little time as possible will be required to perform the operation. Do not leave the air conditioning system open any longer than necessary.

Anytime the air conditioning system has been "opened," it should properly evacuated before recharging.

When adding polyalkaline glycol (PAG) refrigerant oil, the container/transfer tube through which the oil will flow should be exceptionally clean and dry. Refrigerant oil must be as moisture-free as possible. Use only specified lubricant for the R-134a A/C system and R-134a components. If lubricants other than those specified are used, compressor failure is likely to occur

When disconnecting any fitting in the refrigerant system, the system must be discharged of all R-134a. However, proceed very cautiously, regardless of the gage readings. Wipe away any dirt or oil at or near the connection to eliminate the possibility to dirt entering the system. Open fittings very slowly, keeping your face and hands away so that no injury can occur. If pressure is noticed when a fitting is loosened, allow it to bleed off very slowly. Both sides of the connection should be capped, plugged, or taped as soon as possible to prevent the entrance of dirt and moisture. Remember that all air contains moisture. Air that enters any part of the refrigeration system will carry moisture with it, and the exposed surfaces will collect the moisture quickly.

Remove sealing caps from subassemblies just before making connections for final assembly. Use a small amount of clean 525 viscosity refrigerant oil on all tube and hose joints. Use new O-ring seals dipped in 525 viscosity refrigerant oil when assembling joints. The oil will aid in assembly and help provide a leak proof joint. O-ring seals and seats must be in perfect condition because a burr or a piece of dirt can cause a refrigerant leak.

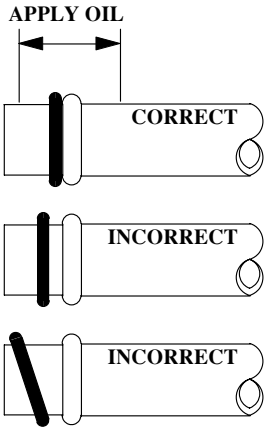


FIGURE 3

It is important to use the proper wrenches when making connections on O-ring seal fittings. The use of improper wrenches may damage the connection. The opposing fitting should always be backed up with a wrench to prevent distortion of connecting lines or components. When making the flexible hose connections, it is important that the swaged fitting and nut, as well as the coupling to which it is attached, be held at the same time using two wrenches to prevent turning the fitting and damaging the seat. Tighten tubing connections to the specified torque.

Keep tools clean and dry. This includes the manifold gage set and all replacement parts.

Use only R-134a. Do not use refrigerant that was canned for pressure operated accessories (such as boat air horns). This type is not pure R-134a and will cause a malfunction. R-12 refrigerant and R-134a refrigerant must never be mixed, even in the smallest of amounts. They are incompatible with each other. If the refrigerants are mixed, compressor failure is likely to occur.

Never bend flexible hose lines to a radius of less than four times the diameter of the hose. Do not allow flexible hose lines to come within a distance of 5 inches of the exhaust manifold. Inspect flexible hose lines regularly for leaks or brittleness and replace with new lines if deterioration or leaking is found.

IV DIAGNOSIS AND TESTING

Proper Use Of Manual Valves

Manually operated valves can be recognized by an adjustable stem which is located under a protective cover. A special wrench should be used on this stem to protect it from damage. These valves operate as follows:

Back-Seated Position – This is the normal operating position. The stem is turned fully outward (CCW) and the valve is open for system operation. If the valve includes a service access gauge port, the back-seated position will isolate the gauge port from the system allowing a manifold gauge set to be connected.

Mid (Test) Position – This position is only used if the valve includes a service access gauge port. After the manifold gauge set is connected (valve in the back-seated position), turn the valve stem inward (CW) slightly. This will allow the system to operate while allowing refrigerant pressure to reach the gauges.

Front-Seated Position – With the valve stem turned fully inward (CW), the valve will block passage of refrigerant flow through the system. *CAUTION – Never operate the system with the valves in this position, as the compressor will be damaged.*

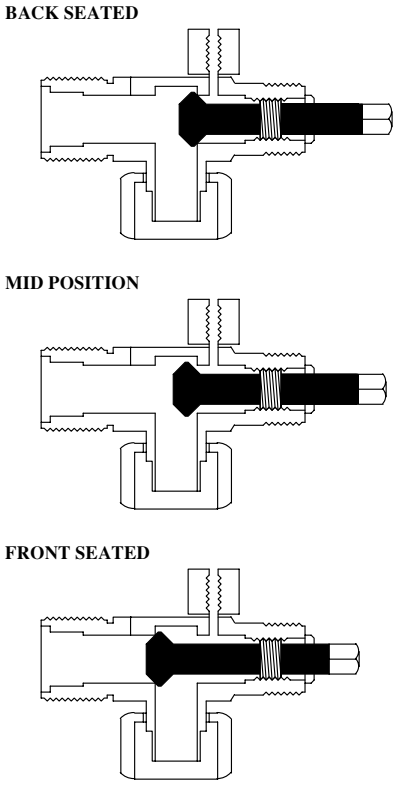


FIGURE 4

Attaching the Manifold Gauge Set

When performing any of the various tests, test equipment must be connected to the refrigerant system. If charge station type of equipment is used, follow the instructions of the manufacturer. If connecting to a manually operated valve, be sure the valve is in the Back-Seated position (see "Proper Use Of Manual Valves").

To attach a manifold gauge set to the service access gauge port valves, proceed as follows:
1. Be sure the engine is off.
2. Turn both manifold gauge set hand valves fully clockwise to close the high and low pressure hoses at the gauge.
3. Remove the caps from the high and low pressure service (Schrader) access gauge port valves in the high and low pressure lines.
4. Connect the high and low pressure refrigerant hoses with adapters containing depressing pins to the respective high and low pressure service access gauge port valves.
5. Connect the hose attached to the manifold center fitting to refrigerant supply tank or vacuum pump valve.

Checking For Leaks

Leaks are the most common source of vehicle A/C problems. Various techniques have been used to find leaks.

Electronic leak detectors:

Electronic leak detectors are generally the most reliable method of finding leaks. The following tips may be a useful supplement to the instructions included with your leak detector:

• Use compressed air to blow off excessive oil from the shaft seal area to reduce the possibility of an erroneous detection of refrigerant retained in the oil.
• Keep the tip clean at all times.
• Always test the leak detector before you use it.
• Carry out leak detection in a draft/wind free environment (inside and with the door closed), if possible.
• While testing for leaks, be very careful not to get any contamination what-so-ever in the tip.
• The gas is heavier than air, therefore the leak may be above where you think it is.
• Grab hoses just before the fittings and twist them while detecting for leaks, as some leaks only occur while under vibration or movement, (i.e. when the vehicle's engine is running).

If the temperature is below 54° F and therefore the gauge pressure is below 50 psi, you should add dry nitrogen in order to get the pressure up. Also ,if a leak is suspected and you cannot find it at around 50 psi you can add dry nitrogen to get the pressure up to 250 psi maximum. If you need to do this please note the following:

• Never take the pressure above 250 psi.
• If you have more than a small amount of R-134a in the system, recover the bulk before adding dry nitrogen. You only need a trace of R-134a for leak detection.
• Never recover gas with dry nitrogen in it.

Vacuum Check:

Get to know the gauges you are using. With the gauge set connected only to a vacuum pump, carefully note of the exact value of the lowest vacuum reading the gauge is capable of. Using this information, evacuate the system and see if this low reading can be achieved and, by closing the manifold hand valves, held for approximately 5 minutes. If not, the system may have a leak (it could also mean there is moisture in the system). This is only a guide, if you suspect a leak while evacuating a system use other methods to find it.

Traces of oil:

This applies mainly to R12 systems, as some PAG and POE (Ester) oils do not leave any trace (they evaporate). A trace of oil on any component is a sure sign that it is leaking (if the oil cannot have been spilled or have come from any other source, i.e. engine, transmission, power steering, etc.).

Soap Spray:

Soap sprays should only be used as a back-up to electronic leak detectors, they should only be used as a last resort and should only be used to pin point a leak if one is found or suspected. Once they have been used they can sometimes effect electronic leak detectors, therefore making further leak detection more difficult.

Submersion test:

In some cases if a leak is suspected but you are unable to prove one, it may be necessary to remove components from the vehicle, introduce pressure and submerse them in water.

Flame leak detectors:

These are not recommended for our industry as they are dangerous around vehicles.

Expansion Valve Test

Common expansion valve problems:

Expansion valve stuck closed or blocked: Indicated by low suction pressure readings and lack of cooling. As the refrigerant flow is restricted the low side could actually drop into a vacuum. Blockages may be due to foreign material or moisture freezing in the orifice.

Expansion valve stuck open: Indicated by poor cooling performance and high pressure readings on both sides of the system.

Sensing bulb incorrectly positioned or capillary tube damaged: The bulb must be securely clamped to the evaporator outlet and be well insulated. The capillary tube must not be kinked, damaged or touching any other surface.

To test the expansion valve, start the engine and run at fast idle (approx. 1500 RPM) with maximum A/C and high blower speed for approximately 10 minutes. Remove the insulation from the expansion valve temperature sensing bulb. Remove the clamp and expose the bulb to the high engine compartment temperatures. The expansion valve should open with a resulting increase in compressor suction pressure. Immerse the temperature sensing bulb into a container of salted, melting chipped ice. The expansion valve should close with a resulting reduction in compressor suction pressure. The suction pressure changes observed should be smooth and deliberate. If at any time, during the pressure change period, you should see a hesitation followed by a jump in the pressure gauge readings, the system may be contaminated and require cleaning. Corrosion of the valve stem may also be interfering with proper expansion valve operation.

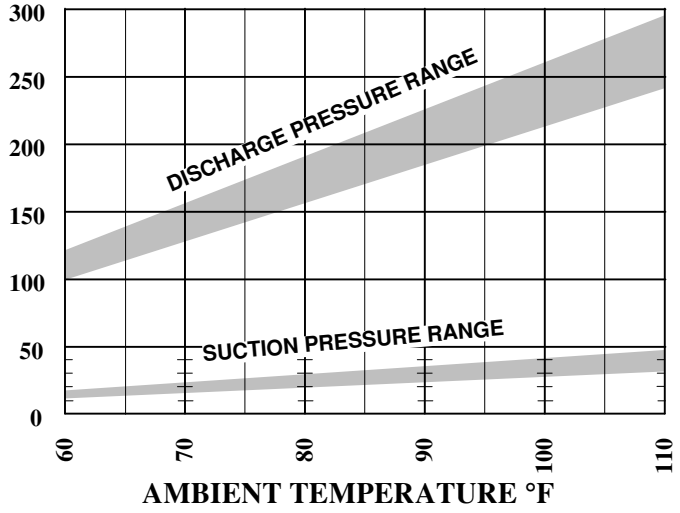
If the preceding test has no effect on compressor suction pressure, the expansion valve will have to be replaced.

Air Conditioner Performance Test

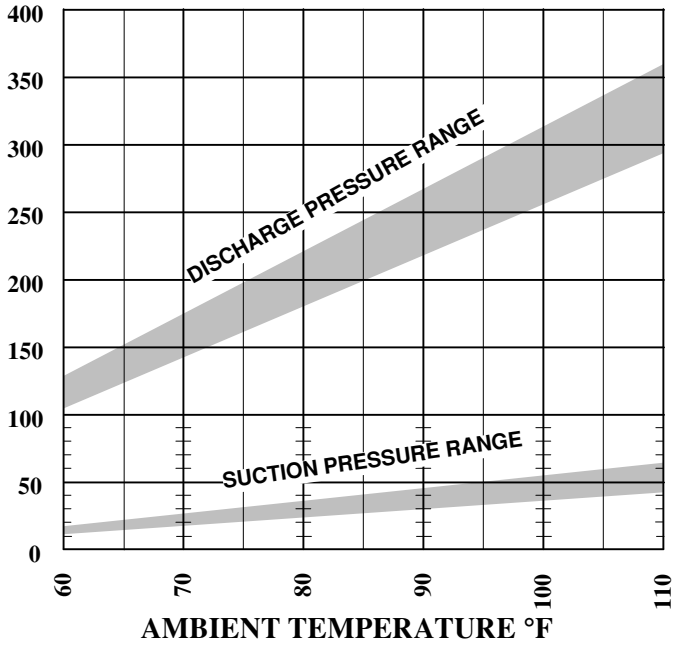
The pressures developed on the high pressure (discharge) and low pressure (suction) side of the compressor indicate whether or not the system is operating properly. System pressures (especially high side) are affected by ambient temperature. They are also affected by the type of motorhome. Front engine motorhomes will typically have lower suction pressures because of the shorter distance between the compressor and the evaporator than rear engine (pusher) units. Discharge pressures on front engine units can also be lower because the condenser is usually mounted in front of the engine cooling fan and sometimes exposed to greater ram air.

To test the system, attach the manifold gauge set with both gauge valves at the maximum clockwise, or closed, position. It will not be necessary to attach the Refrigerant-134A tank. Check the system pressures with the engine running at 1500 rpm, all controls set for maximum cooling, and the front of the vehicle at least 5 feet from any wall. Use a large fan in front of the condenser to simulate ram air. Operate the system under these conditions for 5-10 minutes in order for pressures to stabilize.
Measure the ambient (outside) air temperature with a thermometer held in front of the condenser. Referring to the appropriate pressure chart below (Front Engine or Rear Engine), compare the suction and discharge pressures to the values shown. If necessary, proceed to "A/C Pressure Diagnosis".

APPROXIMATE PRESSURES - FRONT ENGINE UNITS



APPROXIMATE PRESSURES - REAR ENGINE UNITS



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If the pressures are within or near the specified limits but the cooling performance is poor, the problem may be related to the heater control valve. A small amount of hot engine coolant in the heater coil will affect A/C performance. When the temperature control is placed in the "cold" position, both the inlet and outlet heater lines at the unit should be cool if the heater control valve is functioning properly. Adjust or replace a leaking cable operated valve or proceed to "Electric Water Valve Test".

A/C Pressure Diagnosis

If the discharge (High Side) or suction (Low Side) pressures are not within the specified limits, the cause may be one of the following:

Low Side too low, High Side too low-
Low R-134a charge, expansion valve stuck closed, ice on evaporator due to defective thermostat, moisture in system causing ice in expansion valve.

Low Side too low, High Side too high-
Collapsed hose on high side, clogged receiver drier

Low Side too high, High Side too low-
Inoperative or defective compressor

Low Side too high, High Side too high-
Overcharge, defective condenser fan, clogged condenser fins, expansion valve stuck open, contaminants in the system.

A/C Louver Temperature Test

The following chart illustrates the effect of humidity on A/C performance. Listed are the approximate temperatures that can be expected at various temperature and humidity conditions. To perform a check of louver temperature, place the systems' controls in "Normal A/C" (not Max A/C) position. Measure the temperature of the air entering the fresh (outdoor) air inlet. This will be the ambient temperature listed at the top of the chart. Run the engine at 1500 RPM and measure the air temperature at one of the center dash louvers. Compare this reading with the chart. (Note: Relative humidity can be determined in a number of ways, the most accurate being commercially available psychrometers and humidity meters.)

APPROXIMATE LOUVER TEMPERATURES

ENTERING AIR RELATIVE HUMIDITY	AMBIENT TEMPERATURE °F				
	60	70	80	90	100
10%	*	*	38	47	57
20%	*	*	41	50	60
30%	*	*	44	53	63
40%	*	38	48	57	66
50%	*	41	51	60	69
60%	*	44	54	64	73
70%	38	48	58	68	77
80%	41	51	62	72	82
90%	44	55	65	76	86
100%	47	58	69	80	91

* Values in shaded areas are subject to fluctuation due to cycling of the compressor

Thermostatic De-lcing Switch Test

Fill a container with crushed ice, salt and water. Put enough salt in the water so that the temperature of the solution is 25°F or lower. Use a self-powered test lamp or ohmmeter connected to the switch terminals to check whether or not the switch is closed. Place the sensing tube in the ice, salt and water solution. Make certain that no salt water gets into the control. The thermostatic (de-icing) switch contact points should open and remain open while the tube is in the solution.

Remove the sensing tube from the solution. As the tube warms up, the switch contacts should close. If the switch contacts do not open and close as indicated, replace the switch.
An ohmmeter check of the contacts should show a resistance of less than one ohm. If a resistance of one ohm or more occurs, replace the switch.

Magnetic Clutch Test

If the magnetic clutch does not pull in as it should, the battery should be checked for operation voltage (10.0 volts minimum). If the operating voltage is within specification, disconnect the electrical connector at the clutch coil. Apply battery voltage to the coil feed wire. If the clutch engages the clutch is OK and the electrical problem is elsewhere in the system. If the clutch doesn't engage the clutch must be replaced.

Electric Water Valve or Blend Door

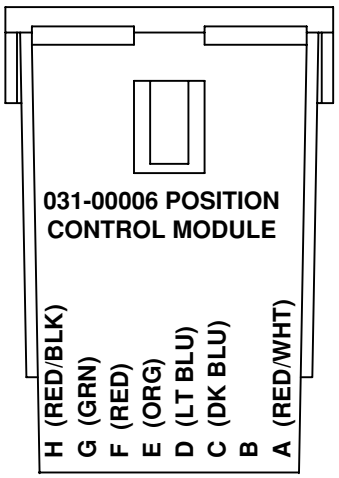
The temperature of the heated air is controlled by either regulating the volume of hot water through the heater coil with a flow control valve or by regulating the volume of air passing through the heater coil using a "blend door". The cable formerly used to adjust the position of the water valve or blend door has been replaced by an electric servo motor. Two styles of servo motors are used. Model years 1996-2001 and some 2002 models use an external position control module Part No. 031-00006 located in the wire harness near the dash control panel. In mid 2002, the servo was changed to a "smart motor" that contains internal driver circuitry thus eliminating the need for the external control module. Before attempting to trouble shoot a water valve or blend door servo, determine whether it is a smart motor or if it uses the external position control module. The wiring is not compatible between the two systems and the servos are not interchangeable. Blend door units prior to 2002 and water valves with four heater hose connections (H valves) require the 031-00006 external module. Water valves with only two heater hose connections use the smart motor.

Servo Motors with External Driver Circuitry

The position of the servo is controlled by a rotary potentiometer in the dash mounted control panel and Part No. 031-00006 position control module. When the dash mounted potentiometer is adjusted, its out voltage changes. The position control module senses the change and drives the servo clockwise or counter clockwise as required. Another potentiometer is built into the servo. Its output voltage varies depending upon the position of the servo. The position control module monitors the output of both potentiometers and drives the servo until the two voltages are within 1/2 volt of each other.

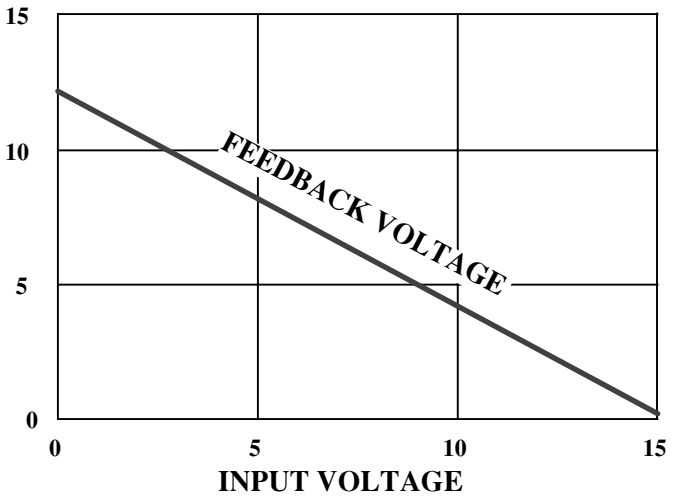
The position control module is mounted in a plastic housing and is usually located near the dash control. The functions of its individual terminals are shown below:

A 12VDC negative (grounded)
B Not Used
C Feedback from the potentiometer inside the servo. After the servo changes position in response to a request from the dash control, the voltage here should match termi nal D within 1/2 volt.
D Input from the dash potentiometer. Voltage here should be 0-1V when the control is in the cold (CCW) posi tion and 12V (or battery voltage) when the control is in the hot (CW) position.
E and F drive the servo motor. E is + 12V and F is -12V to drive the motor counter clockwise (water valve open or blend door to hot position). F is +12V and E is -12V to drive the motor clockwise (water valve closed or blend door to cold position).
G +12V (or battery voltage) when voltage at C exceeds 3. This terminal is sometimes used to drive a vacuum solenoid valve to open a water valve on blend door units. It can also be used to turn on a boost pump for increased water flow through the heater coil.
H 12VDC positive (or battery voltage)



Servo Motors with Internal Driver Circuitry

Electric water valves with "smart motors" have a built in potentiometer and controller circuit. As the dash mounted potentiometer is adjusted, its output voltages changes. The motor circuitry monitors the change and drives the valve open or closed as required. The output (feedback) voltage of the motors' internal potentiometer decreases as the input from the dash potentiometer increases. The relationship between the input and feedback voltage is shown on the following graph:



SPECIFIC CLIMATE SYSTEMS, INC.
PUBLICATION 057-00268 SEPTEMBER 2003

To test water valve operation:

Refer to the appropriate wiring diagram (see the SERVICE INDEX on page 12) and confirm that 12 volts exists at the water valve between "12V" and "GND". If not, check for a blown fuse, incorrect wire connection, or broken wire.

Check the voltage between water valve 'FB" and ground. This is the feedback voltage from the valve motors' internal potentiometer. If the valve is operating correctly, this voltage will vary from approx. 1 to 12 as the valve opens and closes in response to a change in the dash control setting. If no voltage exists, or if the voltage does not change after the dash control is rotated, proceed with the remainder of the test.

Check the voltage between water valve 'INPUT" and ground. This is the output voltage of the dash mounted potentiometer. It should vary from approx. 12 to 1 as the control is rotated from cold (CCW) to hot (CW). If not, check that 12 volts exists between "1" and "3" of the dash potentiometer and make repairs as necessary. Check the voltage between dash potentiometer "2" and ground. If no voltage exists or the voltage does not vary in response to changes in the control setting, the potentiometer should be replaced. If the voltage checks good, look for an incorrect connection between dash potentiometer "2" and water valve "INPUT".
Remove the motor from the water valve and recheck its operation. If the motor functions correctly, the problem is caused by mechanical fault within the valve and the valve should be replaced.

Heater Test

Heating is provided by hot engine coolant circulating through the units' heater coil. Air is drawn through the heater coil by A/C blower. The amount of coolant flow is controlled by a cable operated or electric water valve.

If the blower is operating correctly, the most likely cause of poor heater performance is inadequate coolant temperature or volume of flow.

• Verify that the engine is reaching operating temperature (check with the engine manufacturer for proper procedure).

• With the temperature control in the full "hot" position, both the inlet and outlet hoses of the water valve should be at or near engine temperature.

If they are not, a restriction could exist in a hose, heater valve, or heater coil. If the hoses are long (i.e. rear engine units), they may need to be insulated or a booster pump may be needed.

• If the heater outlet hose is much cooler than the inlet (more than 30° F), inadequate flow is indicated.

V SPECIFICATIONS

REFRIGERANT LINE CONNECTION TORQUE SPECIFICATIONS

METAL OUTSIDE DIAMETER	FITTING THREAD SIZE	TORQUE SPEC.	NOMINAL WRENCH SPAN
3/8"	5/8"	12 Ft. Lbs.	3/4"
1/2"	3/4"	18 Ft. Lbs.	7/8"
5/8"	7/8"	24 Ft. Lbs.	1-1/16"
3/4"	1-1/16"	30 Ft. Lbs.	1-1/4"

BLOWER MOTOR

BLOWER SPEED	CURRENT (AMPS)	BLOWER VOLTAGE
LOW	5	5
MEDIUM 1	7	6
MEDIUM 2	12	9
HIGH	17	12

HOLIDAY RAMBLER & MONACO R-134a CHARGE AMOUNTS

YEAR	CHASSIS	AMOUNT
04-94	ROADMASTER	52 Oz. (3.25 Lbs.)
99-96	FREIGHTLINER	52 Oz. (3.25 Lbs.)
99-94	GENERAL MOTORS	32 Oz. (2.00 Lbs.)
04-98	FORD (V-10 Engines)	40 Oz. (2.50Lbs.)
98-94	FORD (V-8 Engines)	32 Oz. (2.00 Lbs.)
97-95	SPARTAN	52 Oz. (3.25 Lbs.)
04-00	WORKHORSE	32 Oz. (2.00 Lbs.)

UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
MONACO OREGON 04; ADMIRAL, MONARCH, TREK, TRAVELLER, FORD CHASSIS														
090-00446	FORD	093-00680		FORD		076-00154	036-00120	086-00459	A-77	NA		D-47	E-46	F-07
MONACO OREGON 04; ADMIRAL, MONARCH, TREK, TRAVELLER, WORKHORSE CHASSIS														
090-00445	W-HORSE	093-00680		W-HORSE		076-00154		086-00459	A-76	NA		D-47	E-46	F-07
MONACO INDIANA 04; AMBASSADOR, KNIGHT, ROADMASTER CHASSIS (30FT. - 34FT.)														
090-00461	091-00138	093-00603		094-00018	093-00625	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO INDIANA 04; AMBASSADOR, KNIGHT, ROADMASTER CHASSIS (38 FT.)														
090-00461	091-00138	093-00603		094-00018	093-00651	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO INDIANA 04; BARON, ROADMASTER CHASSIS (38 FT)														
090-00461	091-00138	093-00603		094-00018	093-00651	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO INDIANA 04; BEAVER SANTIUM, ROADMASTER CHASSIS														
090-00449	091-00111	093-00601		094-00018	093-00573	076-00154	036-00120		A-80	B-34	C-43	D-47	E-46	F-07
MONACO INDIANA 04; CAMELOT, WINDSOR, ROADMASTER CHASSIS														
090-00448	RDMSTR	093-00602	082-00453	094-00018	082-00497	076-00154	036-00120		A-82	NA	C-45	D-48	E-46	F-07
MONACO OREGON 04; CHEETAH, ROADMASTER CHASSIS, CATERPILLAR ENGINE														
090-00449	091-00111	093-00601		094-00165	082-00518	076-00154	036-00120		A-80	B-34	C-43	D-47	E-46	F-07
MONACO INDIANA 04; DIPLOMAT, ENDEAVOR, ROADMASTER CHASSIS														
090-00449	091-00111	093-00601		094-00018	093-00573	076-00154	036-00120		A-80	B-34	C-43	D-47	E-46	F-07
MONACO OREGON 04; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE														
090-00457	RDMSTR	093-00602		094-00018	082-00407	083-00104			A-78	NA	C-45	D-48	E-50	F-07
MONACO OREGON 04; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE														
090-00457	RDMSTR	093-00602		094-00169	082-00456	083-00104			A-78	NA	C-45	D-48	E-50	F-07
MONACO INDIANA 04; IMPERIAL, ROADMASTER CHASSIS														
090-00448	RDMSTR	093-00601	082-00453	094-00018	082-0049	076-00154	036-00120	086-00298	A-82	NA	C-43	D-48	E-46	F-07
MONACO INDIANA 04; LA PALMA, VACATIONER, FORD CHASSIS														
090-00446	FORD	093-00603		FORD		076-00154	036-00120		A-77	NA	C-44	D-47	E-46	F-07
MONACO INDIANA 04; LA PALMA, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE														
090-00445	W-HORSE	093-00603		W-HORSE		076-00154			A-76	NA	C-44	D-47	E-46	F-07
MONACO OREGON 04; NEPTUNE, CAYMAN, ROADMASTER CHASSIS (30 FT, 32 FT)														
090-00461	091-00138	093-00603		094-00018	093-00641	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO OREGON 04; NEPTUNE, CAYMAN, ROADMASTER CHASSIS (34 FT, 36 FT, 38 FT)														
090-00461	091-00138	093-00603		094-00018	093-00625	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO INDIANA 04; SCEPTOR, ROADMASTER CHASSIS														
090-00450	RDMSTR	093-00601	082-00453	094-00018	082-00497	076-00154	036-00120		A-79	NA	C-43	D-48	E-46	F-07
MONACO OREGON 04; SIGNATURE, ROADMASTER CHASSIS, CUMMINS ISM, ISX ENGINE														
090-00459	RDMSTR	NA		094-00169	082-0048					NA	NA		E-52	NA
MONACO OREGON 04; SIGNATURE, ROADMASTER CHASSIS, DETROIT SERIES 60 ENGINE														
090-00459	RDMSTR	NA		094-00187	082-0048	050-00838				NA	NA		E-52	NA

UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
MONACO INDIANA 03; ADMIRAL, ENDEAVOR, MONARCH, TRAVELER, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE														
090-00445	W-HORSE	093-00603		W-HORSE		076-00154			A-76	NA	C-44	D-47	E-46	F-07
MONACO INDIANA 03; BARON, ROADMASTER CHASSIS (38 FT)														
090-00461	091-00138	093-00603		094-00018	093-00651	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO INDIANA 03; BEAVER SANTIUM, ROADMASTER CHASSIS														
090-00447	091-00111	093-00603		094-00018	093-00573	076-00154	036-00120		A-81	B-34	C-44	D-47	E-46	F-07
MONACO INDIANA 03; CAMELOT, WINDSOR, ROADMASTER CHASSIS														
090-00448	RDMSTR	093-00602	082-00453	094-00018	082-00497	076-00154	036-00120		A-82	NA	C-45	D-48	E-46	F-07
MONACO INDIANA 03; DIPLOMAT, ROADMASTER CHASSIS (REAR CONDENSER)														
090-00447	091-00111	093-00610		094-00018	093-00573	076-00154	036-00120		A-81	B-34	C-46	D-47	E-46	F-07
MONACO OREGON 03; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE														
090-00457	RDMSTR	093-00602		094-00018	082-00407	083-00104			A-78	NA	C-45	D-48	E-50	F-07
MONACO OREGON 03; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE														
090-00457	RDMSTR	093-00602		094-00169	082-00456	083-00104			A-78	NA	C-45	D-48	E-50	F-07
MONACO INDIANA 03; HR ENDEAVOR, ROADMASTER CHASSIS														
090-00449	091-00111	093-00601		094-00018	093-00573	076-00154	036-00120		A-80	B-34	C-43	D-47	E-46	F-07
MONACO OREGON 03; HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE														
090-00445	W-HORSE	093-00603		W-HORSE		076-00154			A-76	NA	C-44	D-47	E-46	F-07
MONACO INDIANA 03; HR IMPERIAL, ROADMASTER CHASSIS														
090-00448	RDMSTR	093-00601	082-00453	094-00018	082-00497	076-00154	036-00120	86-00298	A-82	NA	C-43	D-48	E-46	F-07
MONACO INDIANA 03; LA PALMA, ADMIRAL, ENDEAVOR, MONARCH, TRAVELER, VACATIONER, FORD CHASSIS														
090-00446	FORD	093-00603		FORD		076-00154	036-00120		A-77	NA	C-44	D-47	E-46	F-07
MONACO OREGON 03; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS														
090-00446	FORD	093-00603		FORD		076-00154	036-00120		A-77	NA	C-44	D-47	E-46	F-07
MONACO OREGON 03; NEPTUNE, CAYMAN, ROADMASTER CHASSIS (30 FT, 32 FT)														
090-00461	091-00145	093-00603		094-00018	093-00673	076-00154	036-00120		A-75		C-44	D-47	E-46	F-07
MONACO INDIANA 03; NEPTUNE, CAYMAN, ROADMASTER CHASSIS (34 FT, 36 FT)														
090-00461	091-00138	093-00603		094-00018	093-00625	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO OREGON 03; NEPTUNE, CAYMAN, ROADMASTER CHASSIS (34 FT, 36 FT, 38 FT)														
090-00461	091-00145	093-00603		094-00018	093-00672	076-00154	036-00120		A-75		C-44	D-47	E-46	F-07
MONACO INDIANA 03; SCEPTOR, ROADMASTER CHASSIS														
090-00450	RDMSTR	093-00601	082-00453	094-00018	082-00497	076-00154	036-00120		A-79	NA	C-43	D-48	E-46	F-07
MONACO INDIANA 02; ADMIRAL, HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE...TO 8/01														
090-00410	W-HORSE	087-00082		W-HORSE		076-00151			A-56	NA	C-23	D-10	E-42	F-07
MONACO INDIANA 02; ADMIRAL, HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE...FROM 8/01														
090-00445	W-HORSE	093-00603		W-HORSE		076-00154			A-76	NA	C-44	D-47	E-46	F-07
MONACO INDIANA 02; BEAVER SANTIUM, ROADMASTER CHASSIS (NOTE: PRESSURE SWITCH CHANGED 2/02, WAS 032-00045 (MALE THREAD))														
090-00447	091-00111	093-00603		094-00018	093-00573	076-00154	036-00120		A-81	B-34	C-44	D-47	E-46	F-07

UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
MONACO INDIANA 02; DIPLOMAT, ROADMASTER CHASSIS (NOTE: PRESSURE SWITCH CHANGED 2/02, WAS 032-00045 (MALE THREAD))...TO 12/01														
090-00416	091-00111	093-00607		094-00018	093-00573	076-00151	036-00120		A-62	B-34		D-10	E-39	F-07
MONACO INDIANA 02; DIPLOMAT, ROADMASTER CHASSIS (REAR CONDENSER)...FROM 1/02														
090-00447	091-00111	093-00610		094-00018	093-00573	076-00154	036-00120		A-81	B-34	C-46	D-47	E-46	F-07
MONACO INDIANA 02; DIPLOMAT LE, ROADMASTER CHASSIS...TO 12/01														
090-00418	091-00132	087-00083	082-00416	094-00018	082-00445	076-00151	036-00120		A-64	B-45	C-30	D-46	E-39	F-07
MONACO INDIANA 02; DIPLOMAT LE, ROADMASTER CHASSIS...FROM 1/02														
090-00448	091-00132	093-00602	082-00453	094-00018	082-00445	076-00154	036-00120		A-82	B-45	C-45	D-48	E-46	F-07
MONACO OREGON 02; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE...TO 12/01														
090-00409	RDMSTR	087-00083		094-00018	082-00407	083-00104			A-55	NA	C-30	D-29	E-27	F-07
MONACO OREGON 02; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE...FROM 1/02														
090-00457	RDMSTR	093-00602		094-00018	082-00407	083-00104			A-78	NA	C-45	D-48	E-50	F-07
MONACO OREGON 02; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE...TO 12/01														
090-00409	RDMSTR	087-00083		094-00169	082-00456	083-00104			A-55	NA	C-30	D-29	E-27	F-07
MONACO OREGON 02; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE...FROM 1/02														
090-00457	RDMSTR	093-00602		094-00169	082-00456	083-00104			A-78	NA	C-45	D-48	E-50	F-07
MONACO INDIANA 02; HR ENDEAVOR, ROADMASTER CHASSIS...TO 9/01														
090-00429	091-00111	093-00477		094-00018	093-00573	076-00151	036-00120		A-68	B-34	C-25	D-10	E-39	F-07
MONACO INDIANA 02; HR ENDEAVOR, ROADMASTER CHASSIS (NOTE: PRESSURE SWITCH CHANGED 2/02, WAS 032-00045 (MALE THREAD))...FROM 9/01														
090-00449	091-00111	093-00601		094-00018	093-00573	076-00154	036-00120		A-80	B-34	C-43	D-47	E-46	F-07
MONACO OREGON 02; HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE														
090-00445	W-HORSE	093-00603		W-HORSE		076-00154			A-76	NA	C-44	D-47	E-46	F-07
MONACO INDIANA 02; HR IMPERIAL, ROADMASTER CHASSIS...TO 8/01														
090-00418	RDMSTR	093-00477	082-00416	094-00018	082-00114	076-00151	036-00120	86-00298	A-64	NA	C-25	D-46	E-39	F-07
MONACO INDIANA 02; HR IMPERIAL, ROADMASTER CHASSIS...FROM 8/01														
090-00448	RDMSTR	093-00601	082-00453	094-00018	082-00114	076-00154	036-00120	86-00298	A-82	NA	C-43	D-48	E-46	F-07
MONACO INDIANA 02; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS...TO 11/01														
090-00412	FORD	087-00082		FORD		076-00151	036-00120		A-58	NA	C-23	D-10	E-39	F-07
MONACO OREGON 02; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS...TO 12/01														
090-00412	FORD	087-00082		FORD		076-00151	036-00120		A-58	NA	C-23	D-10	E-39	F-07
MONACO INDIANA 02; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS...FROM 11/01														
090-00446	FORD	093-00603		FORD		076-00154	036-00120		A-77	NA	C-44	D-47	E-46	F-07
MONACO OREGON 02; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS...FROM 12/01														
090-00446	FORD	093-00603		FORD		076-00154	036-00120		A-77	NA	C-44	D-47	E-46	F-07
MONACO OREGON 02; NEPTUNE, CAYMAN, ROADMASTER CHASSIS (30 FT, 32 FT)														
090-00461	091-00138	093-00603		094-00018	093-00641	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO OREGON 02; NEPTUNE, CAYMAN, ROADMASTER CHASSIS (34 FT, 36 FT, 38 FT)														
090-00461	091-00138	093-00603		094-00018	093-00625	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07

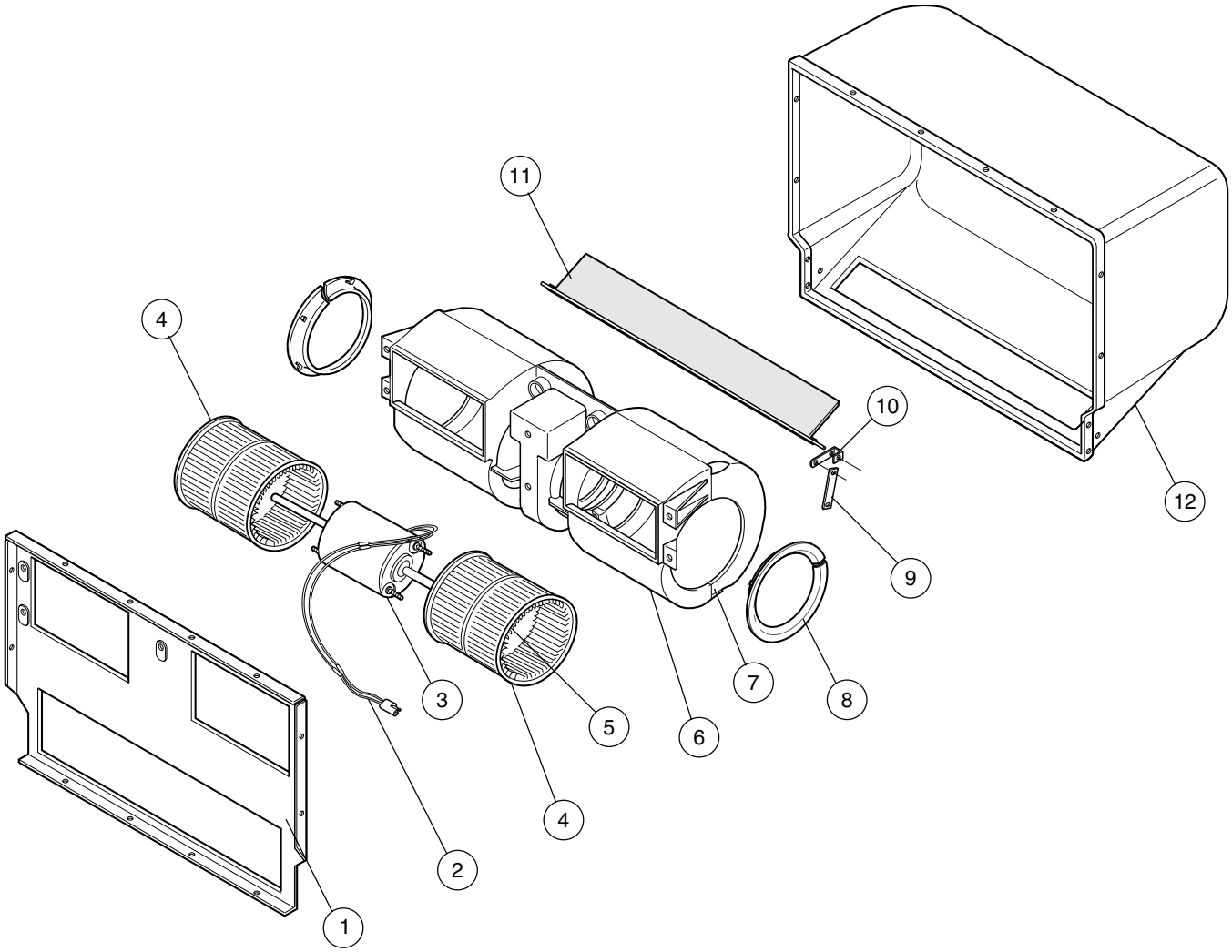
UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
MONACO INDIANA 02; NEPTUNE, CAYMAN, BARON, ROADMASTER CHASSIS (34 FT, 36 FT, 38 FT)														
090-00461	091-00138	093-00603		094-00018	093-00625	076-00154	036-00120		A-75	B-46	C-44	D-47	E-46	F-07
MONACO INDIANA 02; SCEPTOR, ROADMASTER CHASSIS...TO 11/01														
090-00434	091-00132	093-00477	082-00416	094-00018	082-00445	076-00151	036-00120		A-69	B-45	C-25	D-46	E-39	F-07
MONACO INDIANA 02; SCEPTOR, ROADMASTER CHASSIS...FROM 11/01														
090-00450	091-00132	093-00601	082-00453	094-00018	082-00445	076-00154	036-00120		A-79	B-45	C-43	D-48	E-46	F-07
MONACO INDIANA 02; WINDSOR, ROADMASTER CHASSIS...TO 12/01														
090-00418	RDMSTR	087-00083	082-00416	094-00018	082-00114	076-00151	036-00120		A-64	NA	C-30	D-46	E-39	F-07
MONACO INDIANA 02; WINDSOR, ROADMASTER CHASSIS...FROM 1/01														
090-00448	RDMSTR	093-00602	082-00453	094-00018	082-00114	076-00154	036-00120		A-82	NA	C-45	D-48	E-46	F-07
MONACO INDIANA 01; DIPLOMAT, ROADMASTER CHASSIS														
090-00416	091-00111	093-00607		094-00018	093-00573	076-00151	036-00120		A-62	B-34		D-10	E-39	F-07
MONACO INDIANA 01; DIPLOMAT LE, ROADMASTER CHASSIS														
090-00418	091-00132	087-00083	082-00416	094-00018	082-00445	076-00151	036-00120		A-64	B-45	C-30	D-46	E-39	F-07
MONACO OREGON 01; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE														
090-00409	RDMSTR	087-00083		094-00018	082-00407	083-00104			A-55	NA	C-30	D-29	E-27	F-07
MONACO OREGON 01; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE														
090-00409	RDMSTR	087-00083		094-00169	082-00456	083-00104			A-55	NA	C-30	D-29	E-27	F-07
MONACO INDIANA 01; HR ENDEAVOR, ROADMASTER CHASSIS (PRE-CHARGED)														
090-00429	091-00111	093-00477		094-00018	093-00573	076-00151	036-00120		A-68	B-34	C-25	D-10	E-39	F-07
MONACO INDIANA 01; HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE														
090-00410	W-HORSE	087-00082		W-HORSE		076-00151			A-56	NA	C-23	D-10	E-42	F-07
MONACO OREGON 01; HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE														
090-00445	W-HORSE	093-00603		W-HORSE		076-00154			A-76	NA	C-44	D-47	E-46	F-07
MONACO INDIANA 01; HR IMPERIAL, ROADMASTER CHASSIS														
090-00418	RDMSTR	093-00477	082-00416	094-00018	082-0011	076-00151	036-00120	086-00298	A-64	NA	C-25	D-46	E-39	F-07
MONACO INDIANA 01; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS														
090-00412	FORD	087-00082		FORD		076-00151	036-00120		A-58	NA	C-23	D-10	E-39	F-07
MONACO OREGON 01; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS														
090-00412	FORD	087-00082		FORD		076-00151	036-00120		A-58	NA	C-23	D-10	E-39	F-07
MONACO INDIANA 01; SCEPTOR, ROADMASTER CHASSIS														
090-00434	091-00132	093-00477	082-00416	094-00018	082-00445	076-00151	036-00120		A-69	B-45	C-25	D-46	E-39	F-07
MONACO INDIANA 01; WINDSOR, ROADMASTER CHASSIS														
090-00418	RDMSTR	087-00083	082-00416	094-00018	082-00445	076-00151	036-00120		A-64	NA	C-30	D-46	E-39	F-07
MONACO INDIANA 00; DIPLOMAT, ROADMASTER CHASSIS...TO 3/00														
090-00384	091-00111	087-00083		094-00018	093-00573	076-00151	036-00120		A-48	B-34	C-30	D-10	E-39	F-07
MONACO INDIANA 00; DIPLOMAT, ROADMASTER CHASSIS (REAR CONDENSER , PRE-CHARGED)...FROM 3/00														
090-00416	091-00111	087-00083		094-00018	093-00573	076-00151	036-00120		A-62	B-34	C-30	D-10	E-39	F-07

UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
MONACO INDIANA 00; DIPLOMAT LE, ROADMASTER CHASSIS...FROM 7/00														
090-00418	091-00132	087-00083	082-00416	094-00018	082-00114	076-00151	036-00120		A-64	B-45	C-30	D-46	E-39	F-07
MONACO INDIANA 00; DYNASTY, ROADMASTER CHASSIS...TO 3/00														
090-00389	RDMSTR	087-00083	082-00416	094-00018	082-00114	076-00152				NA	C-30	D-46	E-26	F-07
MONACO INDIANA 00; DYNASTY, ROADMASTER CHASSIS...3/00-5/00														
090-00418	RDMSTR	087-00083	082-00416	094-00018	082-00114	076-00152			A-64	NA	C-30	D-46	E-26	F-07
MONACO OREGON 00; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE...TO 4/00														
090-00108	RDMSTR	087-00083		094-00018	082-00407					NA	C-30	D-29	E-27	F-07
MONACO OREGON 00; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE...FROM 4/00														
090-00409	RDMSTR	087-00083		094-00018	082-00407				A-55	NA	C-30	D-29	E-27	F-07
MONACO OREGON 00; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE...TO 4/00														
090-00108	RDMSTR	087-00083		094-00169	082-00392					NA	C-30	D-29	E-27	F-07
MONACO OREGON 00; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE...FROM 4/00														
090-00409	RDMSTR	087-00083		094-00169	082-00392				A-55	NA	C-30	D-29	E-27	F-07
MONACO INDIANA 00; HR ENDEAVOR, FREIGHTLINER CHASSIS, CUMMINS 6BT 5.9L DIESEL ENGINE...TO 3/00														
090-00357	F-LINER	093-00477	086-00298	F-LINER		076-00151	036-00120		A-29	NA	C-25	D-10	E-39	F-07
MONACO INDIANA 00; HR ENDEAVOR, FREIGHTLINER CHASSIS, CUMMINS 6BT 5.9L DIESEL ENGINE...3/00-5/00														
090-00411	F-LINER	093-00477	086-00298	F-LINER		076-00151	036-00120		A-57	NA	C-25	D-10	E-39	F-07
MONACO INDIANA 00; HR ENDEAVOR, ROADMASTER CHASSIS...FROM 5/00														
090-00429	091-00111	093-00477	086-00298	094-00018	093-00573	076-00151	036-00120		A-68	B-34	C-25	D-10	E-39	F-07
MONACO INDIANA 00; HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L18 ENGINE...FROM 3/00														
090-00410	W-HORSE	087-00082		W-HORSE		076-00151			A-56	NA	C-23	D-10	E-42	F-07
MONACO INDIANA 00; HR ENDEAVOR, VACATIONER, WORKHORSE CHASSIS, L29 ENGINE...TO 3/00														
090-00355	W-HORSE	087-00082		W-HORSE		076-00151			A-27	NA	C-23	D-10	E-42	F-07
MONACO INDIANA 00; HR IMPERIAL 2000, ROADMASTER CHASSIS...TO 3/00														
090-00389	RDMSTR	093-00477	082-00416	094-00018	082-0011	076-00151	036-00120	086-00298		NA	C-25	D-46	E-39	F-07
MONACO INDIANA 00; HR IMPERIAL 2000, ROADMASTER CHASSIS...FROM 3/00														
090-00418	RDMSTR	093-00477	082-00416	094-00018	082-0011	076-00151	036-00120	086-00298	A-64	NA	C-25	D-46	E-39	F-07
MONACO OREGON 00; HR NAVIGATOR, ROADMASTER CHASSIS														
090-00114	RDMSTR	NA	NA	094-00018					A-20	NA	NA		E-17	NA
MONACO INDIANA 00; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS...TO 3/00														
090-00369	FORD	087-00082		FORD		076-00151	036-00120		A-34	NA	C-23	D-10	E-39	F-07
MONACO INDIANA 00; LA PALMA & HR ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS...FROM 3/00														
090-00412	FORD	087-00082		FORD		076-00151	036-00120		A-58	NA	C-23	D-10	E-39	F-07
MONACO INDIANA 00; WINDSOR, ROADMASTER CHASSIS...TO 3/00														
090-00389	RDMSTR	087-00083	082-00416	094-00018	082-00114	076-00151	036-00120			NA	C-30	D-46	E-39	F-07
MONACO INDIANA 00; WINDSOR, ROADMASTER CHASSIS...FROM 3/00														
090-00418	RDMSTR	087-00083	082-00416	094-00018	082-00114	076-00151	036-00120		A-64	NA	C-30	D-46	E-39	F-07

UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
HOLIDAY RAMBLER 99; ADMIRAL, ENDEAVOR, VACATIONER, FORD CHASSIS														
090-00369	FORD	087-00082		FORD		076-00150	036-00120		A-34	NA	C-23	D-10	E-21	F-07
MONACO INDIANA 99; DIPLOMAT, ROADMASTER CHASSIS (REAR CONDENSER , PRE-CHARGED)														
090-00384	091-00111	087-00083		094-00018	093-00509	076-00150	036-00120		A-48	B-34	C-30	D-10	E-21	F-07
MONACO OREGON 99; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISC ENGINE														
090-00108	RDMSTR	087-00083		094-00018	082-00407					NA	C-30	D-29	E-27	F-07
MONACO OREGON 99; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS, CUMMINS ISM ENGINE...FROM 11/98														
090-00108	RDMSTR	087-00083		094-00169	082-00392					NA	C-30	D-29	E-27	F-07
MONACO INDIANA 99; DYNASTY, WINDSOR, ROADMASTER CHASSIS														
090-00389	RDMSTR	087-00083	082-00097	094-00018		082-00114				NA	C-30	D-25	E-26	F-07
HOLIDAY RAMBLER 99; ENDEAVOR, FREIGHTLINER CHASSIS														
090-00357	F-LINER	093-00477	086-00298	F-LINER		076-00150	036-00120		A-29	NA	C-25	D-10	E-21	F-07
HOLIDAY RAMBLER 99; ENDEAVOR, VACATIONER, GM P-30 CHASSIS, L29 ENGINE														
090-00355	GM	087-00082		GM		076-00150			A-27	NA	C-23	D-10	E-22	F-07
HOLIDAY RAMBLER 99; IMPERIAL, ROADMASTER CHASSIS (REAR CONDENSER)														
090-00349	RDMSTR	093-00462		RDMSTR	093-0046	076-00145	036-00120	036-00121	A-41	NA	C-24		E-34	F-07
MONACO INDIANA 99; LA PALMA, FORD CHASSIS														
090-00369	FORD	087-00082		FORD		076-00150	036-00120		A-34	NA	C-23	D-10	E-21	F-07
HOLIDAY RAMBLER 99; NAVIGATOR, ROADMASTER CHASSIS														
090-00114	RDMSTR	NA	NA	094-00018					A-20	NA	NA		E-17	NA
MONACO INDIANA 98; DIPLOMAT, ROADMASTER CHASSIS (REAR CONDENSER , PRE-CHARGED)														
090-00384	091-00111	087-00083		094-00018	093-00509	076-00150	036-00120		A-48	B-34	C-30	D-10	E-21	F-07
MONACO OREGON 98; DYNASTY, EXECUTIVE, ROADMASTER CHASSIS														
090-00108	RDMSTR	087-00083		094-00018	082-00114	086-00083	062-00221			NA	C-30	D-29	E-27	F-07
MONACO INDIANA 98; DYNASTY, WINDSOR, ROADMASTER CHASSIS...TO 2/98														
090-00106	RDMSTR	087-00083		094-00018		082-00114	086-00083	062-00221		NA	C-30	D-25	E-26	F-07
MONACO INDIANA 98; DYNASTY, WINDSOR, ROADMASTER CHASSIS...FROM 2/98														
090-00389	RDMSTR	087-00083	082-00097	094-00018		082-00114	086-00083	062-00221		NA	C-30	D-25	E-26	F-07
HOLIDAY RAMBLER 98; ENDEAVOR, FREIGHTLINER CHASSIS														
090-00357	F-LINER	093-00477	086-00298	F-LINER		076-00150	036-00120		A-29	NA	C-25	D-10	E-21	F-07
HOLIDAY RAMBLER 98; ENDEAVOR / VACATIONER, 1997 FORD CHASSIS...TO 2/98														
090-00356	FORD	087-00082		FORD		076-00150			A-28	NA	C-23	D-10	E-22	F-07
HOLIDAY RAMBLER 98; ENDEAVOR / VACATIONER, 1999 FORD CHASSIS...FROM 2/98														
090-00369	FORD	087-00082		FORD		076-00150	036-00120		A-34	NA	C-23	D-10	E-21	F-07
HOLIDAY RAMBLER 98; ENDEAVOR / VACATIONER, GM P-30 CHASSIS, L29 ENGINE														
090-00355	GM	087-00082		GM		076-00150			A-27	NA	C-23	D-10	E-22	F-07
HOLIDAY RAMBLER 98; IMPERIAL, ROADMASTER CHASSIS (REAR CONDENSER)														
090-00349	RDMSTR	093-00462		RDMSTR	093-0046	076-00145	036-00120	036-00121	A-41	NA	C-24		E-34	F-07

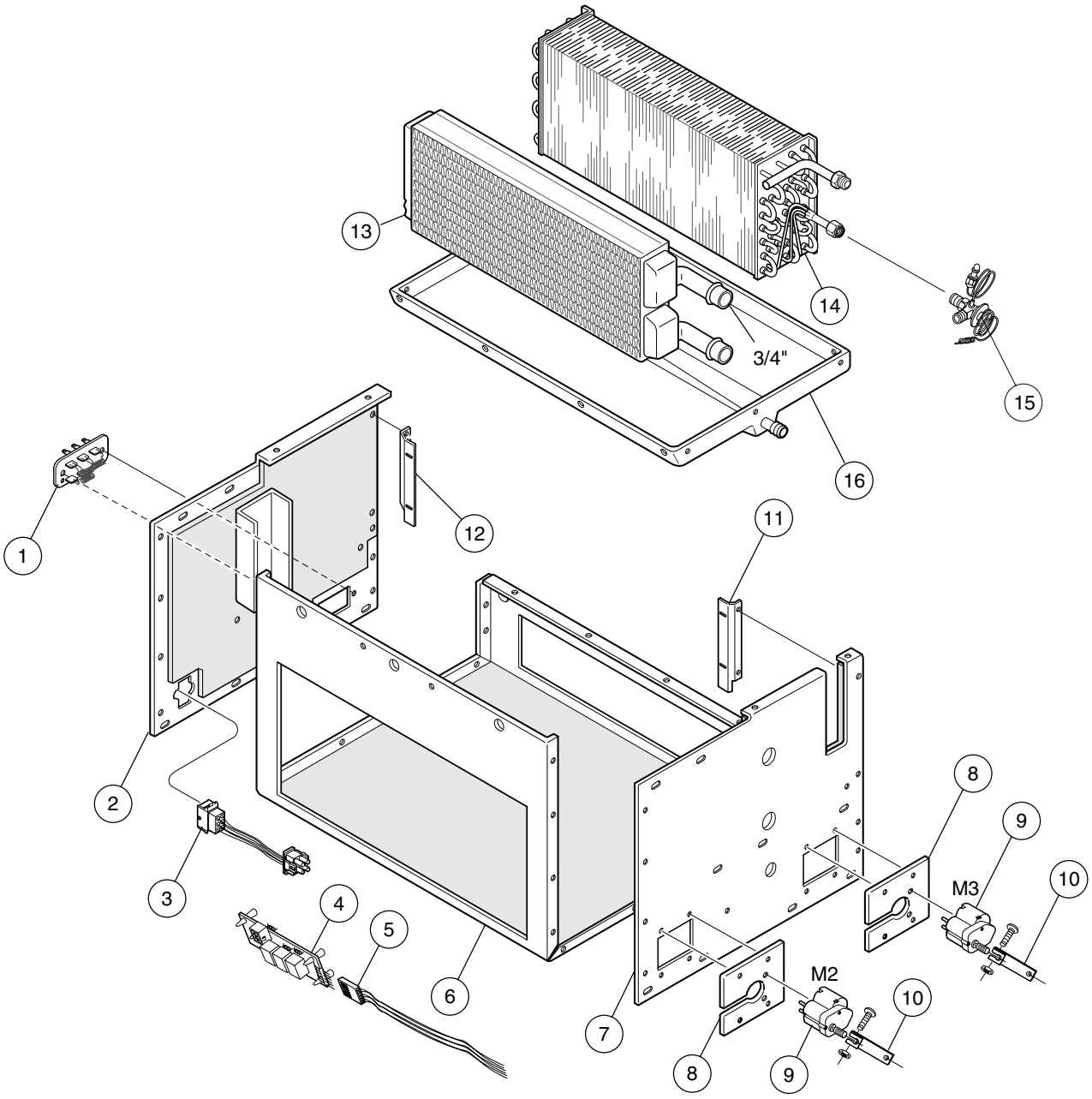
UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
HOLIDAY RAMBLER 98; NAVIGATOR, ROADMASTER CHASSIS														
090-00114	RDMSTR	NA	NA	094-00018					A-20	NA	NA		E-17	NA
MONACO INDIANA 97; ALL MODELS, ROADMASTER CHASSIS														
090-00106	RDMSTR	087-00083		094-00018		082-00114	086-00083	062-00221		NA	C-30	D-25	E-26	F-07
MONACO OREGON 97; ALL MODELS, ROADMASTER CHASSIS														
090-00108	RDMSTR	087-00083		094-00018	082-00114	086-00083	062-00221			NA	C-30	D-29	E-27	F-07
HOLIDAY RAMBLER 97; ENDEAVOR, FORD CHASSIS														
090-00323	FORD	087-00082		FORD		076-00145			A-32	NA	C-23		E-32	F-07
HOLIDAY RAMBLER 97; ENDEAVOR, FREIGHTLINER CHASSIS...TO 9/96														
090-00094	084-00046	087-00082		F-LINER		076-00121			A-52	B-31	C-23	D-21	E-19	F-09
HOLIDAY RAMBLER 97; ENDEAVOR, FREIGHTLINER CHASSIS...9/96-1/97														
090-00321	F-LINER	087-00082		F-LINER		076-00145	036-00120		A-16	NA	C-23		E-34	F-07
HOLIDAY RAMBLER 97; ENDEAVOR, FREIGHTLINER CHASSIS...FROM 1/97														
090-00343	F-LINER	087-00082		F-LINER		076-00145	036-00120		A-26	NA	C-23		E-34	F-07
HOLIDAY RAMBLER 97; ENDEAVOR, GM P-30 CHASSIS, L29 ENGINE														
090-00322	GM	087-00082		GM		076-00145			A-15	NA	C-23		E-32	F-07
HOLIDAY RAMBLER 97; IMPERIAL, ROADMASTER CHASSIS (FORD 7 POSITION CONTROL, REAR CONDENSER)...TO 4/97														
090-00333	RDMSTR	093-00160		RDMSTR	093-0046	076-00145	036-00120	036-00121	A-40	NA	C-15		E-34	
HOLIDAY RAMBLER 97; IMPERIAL, ROADMASTER CHASSIS (FORD 8 POSITION CONTROL, REAR CONDENSER)...FROM 4/97														
090-00349	RDMSTR	093-00462		RDMSTR	093-0046	076-00145	036-00120	036-00121	A-41	NA	C-24		E-34	F-07
HOLIDAY RAMBLER 97; IMPERIAL, SPARTAN CHASSIS (REAR CONDENSER)														
090-00333	091-00042	093-00160		SPARTAN	093-00108	076-00145	036-00121		A-40	B-21	C-15		E-32	F-04
HOLIDAY RAMBLER 97; VACATIONER, FORD CHASSIS...TO 8/96														
090-00096	FORD	087-00082		FORD		076-00124			A-17	NA	C-23	D-21	E-22	F-09
HOLIDAY RAMBLER 97; VACATIONER, FORD CHASSIS...FROM 8/96														
090-00323	FORD	087-00082		FORD		076-00145			A-32	NA	C-23		E-32	F-07
HOLIDAY RAMBLER 97; VACATIONER, GM P-30 CHASSIS (1995 MODEL CHASSIS)...TO 9/96														
090-00099	GM	087-00082		GM		076-00126				NA	C-23	D-21	E-21	F-09
HOLIDAY RAMBLER 97; VACATIONER, GM P-30 CHASSIS, L29 ENGINE...2/96-8/96														
090-00095	GM	087-00082		GM		076-00124				NA	C-23	D-21	E-22	F-09
HOLIDAY RAMBLER 97; VACATIONER, GM P-30 CHASSIS, L29 ENGINE...FROM 8/96														
090-00322	GM	087-00082		GM		076-00145			A-15	NA	C-23		E-32	F-07
MONACO INDIANA 96; DYNASTY, ROADMASTER CHASSIS														
090-00080	084-00048	087-00083	093-00095							B-33	C-30	D-25	E-26	F-07
MONACO OREGON 96; DYNASTY, ROADMASTER CHASSIS														
090-00080	084-00048	087-00083	093-00096							B-33	C-30	D-29	E-27	F-07
HOLIDAY RAMBLER 96; ENDEAVOR, FORD CHASSIS														
090-00096	FORD	087-00082		FORD		076-00124			A-17	NA	C-23	D-21	E-22	F-09

UNIT	COND. KIT	PLENUM KIT	ACCESS. KIT	COMP.	HOSE KIT	OTHER ITEMS			SERVICE MANUAL PAGE					
									UNIT	COND.	PLEN.	CON-TROL	WIR. DIA.	VAC. DIA.
HOLIDAY RAMBLER 96; ENDEAVOR, FREIGHTLINER CHASSIS														
090-00094	084-00046	087-00082		F-LINER		076-00121			A-52	B-31	C-23	D-21	E-19	F-09
HOLIDAY RAMBLER 96; ENDEAVOR, GM P-30 CHASSIS (1995 MODEL CHASSIS)														
090-00099	GM	087-00082		GM		076-00121				NA	C-23	D-21	E-15	F-09
HOLIDAY RAMBLER 96; ENDEAVOR, GM P-30 CHASSIS, L29 ENGINE (1996 MODEL CHASSIS)														
090-00095	GM	087-00082		GM		076-00125				NA	C-23	D-21	E-22	F-09
MONACO OREGON 96; EXECUTIVE, ROADMASTER CHASSIS														
090-00080	084-00048	087-00083	093-00097							B-33	C-30	D-29	E-27	F-07
HOLIDAY RAMBLER 96; IMPERIAL, SPARTAN CHASSIS (REAR CONDENSER)...TO 12/95														
090-00120	084-00104	093-00160	093-00152	SPARTAN	093-00108	086-00298			A-11		C-15	D-18	E-02	F-04
HOLIDAY RAMBLER 96; IMPERIAL, SPARTAN CHASSIS (REAR CONDENSER)...FROM 12/95														
090-00120	091-00042	093-00160	093-00152	SPARTAN	093-00108	086-00298			A-11	B-21	C-15	D-18	E-02	F-04
HOLIDAY RAMBLER 96; NAVIGATOR, SPARTAN CHASSIS, 350 HP ENGINE (ELECTRIC WATER VALVE, DUAL HTR CORES, REAR CONDENSER, INCLUDES OTR COMP.)														
090-00110	091-00041	NA	093-00153	SPARTAN					A-10	B-20	NA		E-17	NA
HOLIDAY RAMBLER 96; NAVIGATOR, SPARTAN CHASSIS, 350 HP ENGINE (ELECTRIC WATER VALVE, SINGLE HEATER CORE, REAR CONDENSER, INCLUDES OTR COMP.)														
090-00114	091-00041	NA	093-00153	SPARTAN					A-20	B-20	NA		E-17	NA
HOLIDAY RAMBLER 96; NAVIGATOR, SPARTAN CHASSIS, CUMMINS M11 ENGINE (ELECTRIC WATER VALVE, DUAL HTR CORES, NON OTR, REAR CONDENSER)														
090-00110	091-00045	NA	093-00153	SPARTAN					A-10	B-19	NA		E-17	NA
MONACO OREGON 96; SIGNATURE, ROADMASTER CHASSIS														
090-00080	084-00048	087-00083	093-00098							B-33	C-30	D-29	E-27	F-07
MONACO OREGON 96; WINDSOR, ROADMASTER CHASSIS														
090-00090	084-00054	087-00080	093-00090	094-00018		082-00087					C-21		E-25	F-03



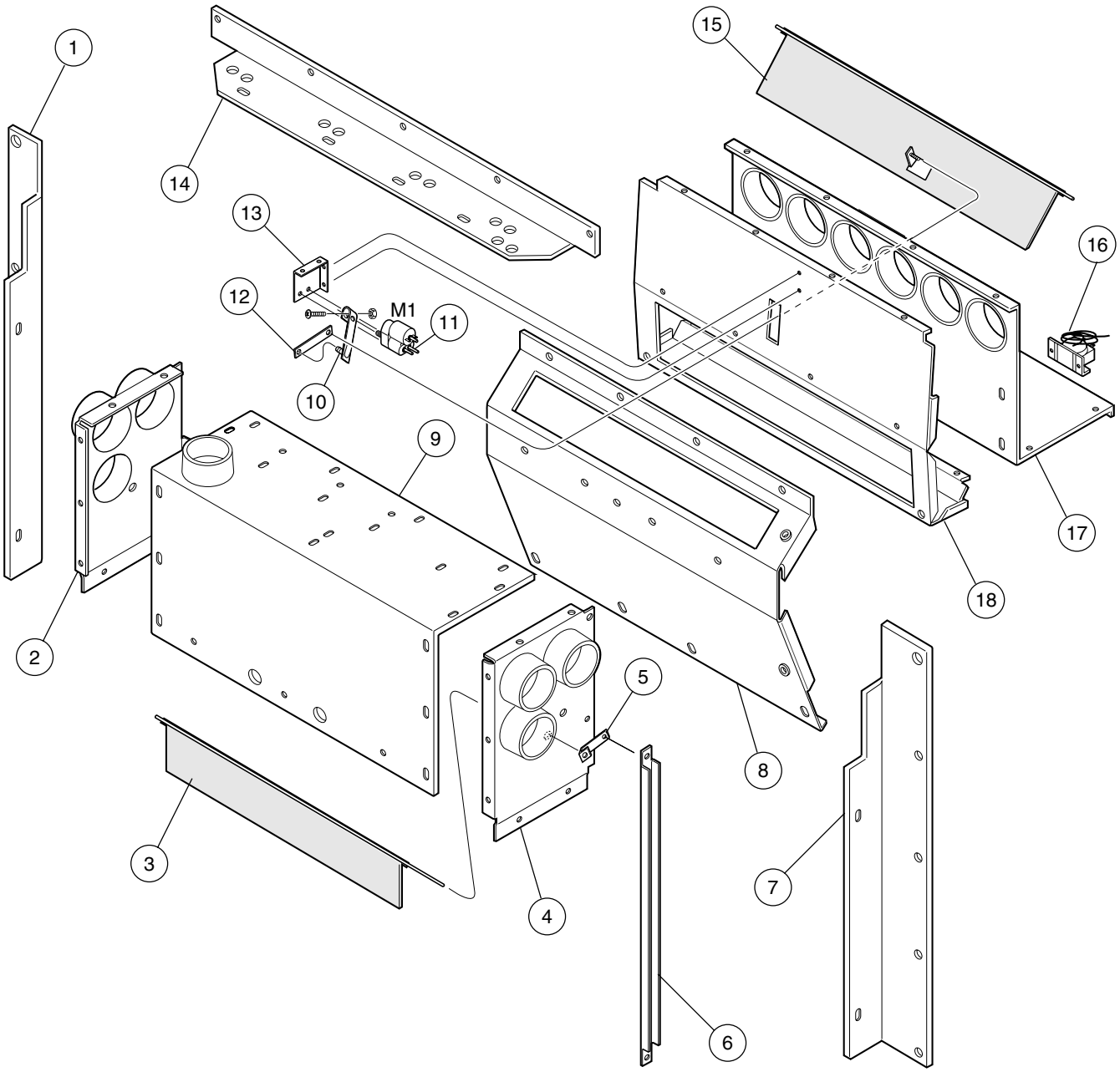
1. 060-00348 BLOWER PANEL
2. 036-00147 WIRE HARNESS
3. 030-00054 BLOWER MOTOR
4. 062-00258 BLOWER WHEEL
5. 022-00075 SPRING CLIP
6. 062-00259 HOUSING TOP
7. 062-00260 HOUSING BOTTOM
8. 062-00261 VENTURI
9. 070-00258 LINK
10. 073-00046 CRANK
11. 071-00412 BLEND DOOR
12. 060-00225 BLOWER COVER

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00110; EVAPORATOR ASSEMBLY 086-00161**	PAGE **A-10a** 12/7/98



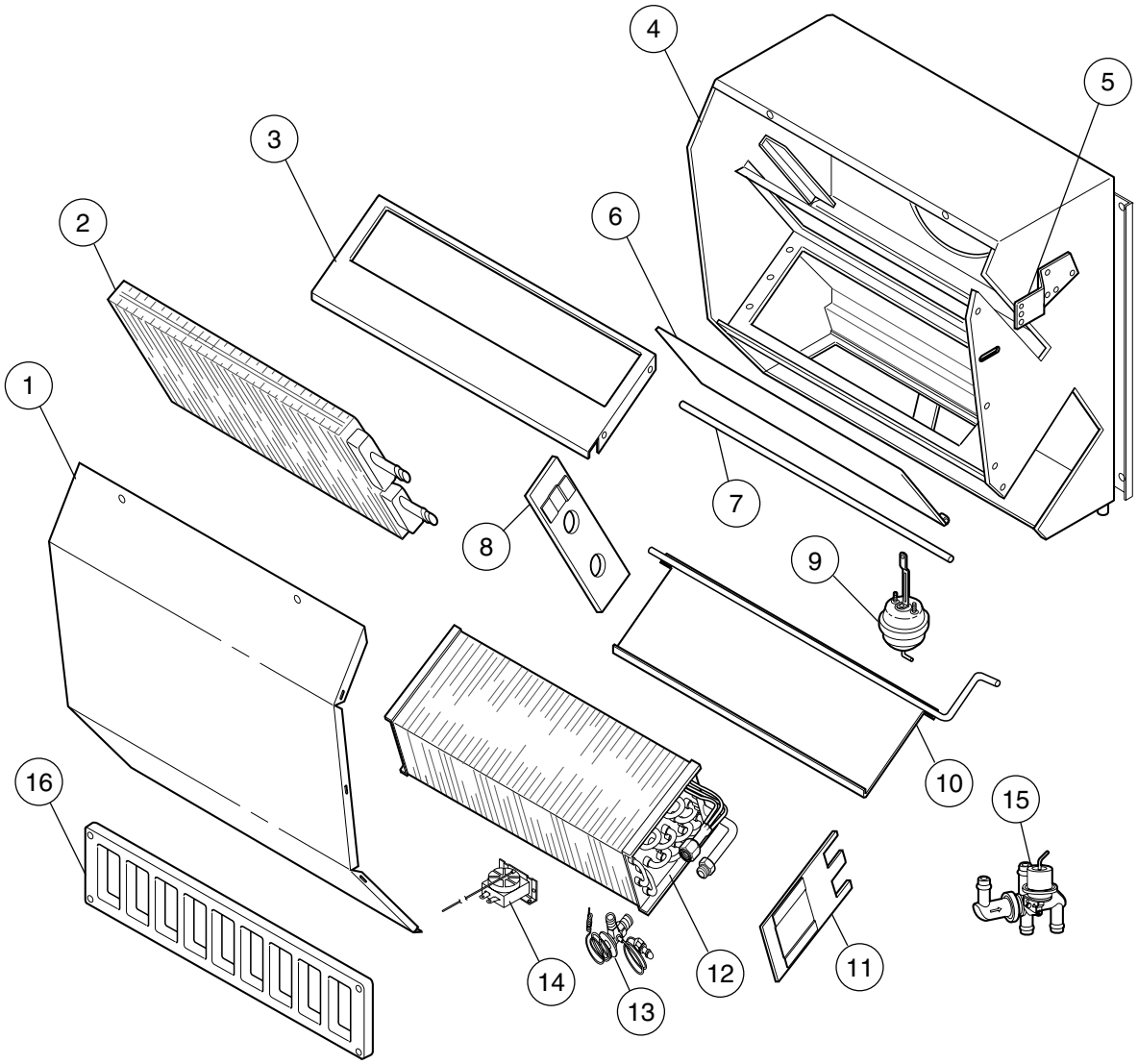
1. 035-00011 RESISTOR
2. 071-00385 SIDE PLATE
3. 036-00154 WIRE HARNESS
4. 035-00017 PC BOARD
5. 036-00173 WIRE HARNESS
6. 071-00435 WRAPPER
7. 071-00409 SIDE PLATE
8. 071-00386 MOTOR PLATE
9. 030-00063 GEAR MOTOR
10. 073-00050 CRANK
11. 070-00252 BRACKET, RH
12. 070-00253 BRACKET, LH
13. 042-00029 HEATER COIL
14. 041-00059 EVAPORATOR COIL
15. 034-00029 EXPANSION VALVE
16. 060-00329 DRAIN PAN

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00110; EVAPORATOR ASSEMBLY 086-00161**	PAGE **A-10b** 12/7/98



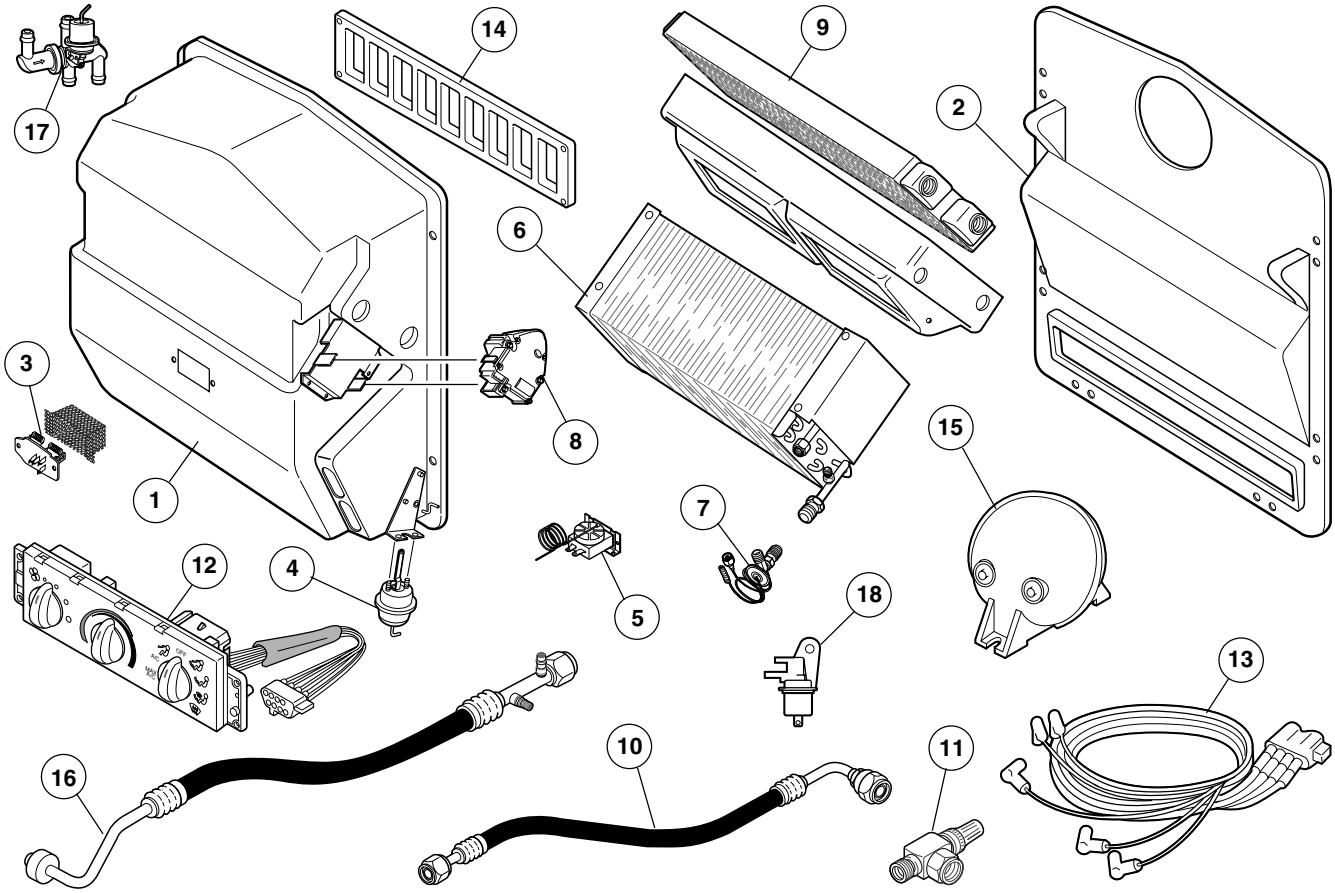
1. 070-00254 BRACKET, LH
2. 071-00433 LH PANEL
3. 071-00412 BLEND DOOR
4. 071-00432 PANEL, RH
5. 073-00046 CRANK
6. 070-00257 LINK
7. 070-00255 BRACKET, RH
8. 071-00388 LOWER DIVIDER
9. 071-00434 BACK PANEL
10. 073-00050 CRANK
11. 030-00063 GEAR MOTOR
12. 070-00258 LINK
13. 070-00261 BRACKET
14. 070-00256 BRACKET, TOP
15. 071-00430 DEFROST DOOR
16. 033-00003 THERMOSTAT
17. 071-00431 FRONT PANEL
18. 071-00389 UPPER DIVIDER

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00110; EVAPORATOR ASSEMBLY 086-00161**	PAGE **A-10c** 12/7/98



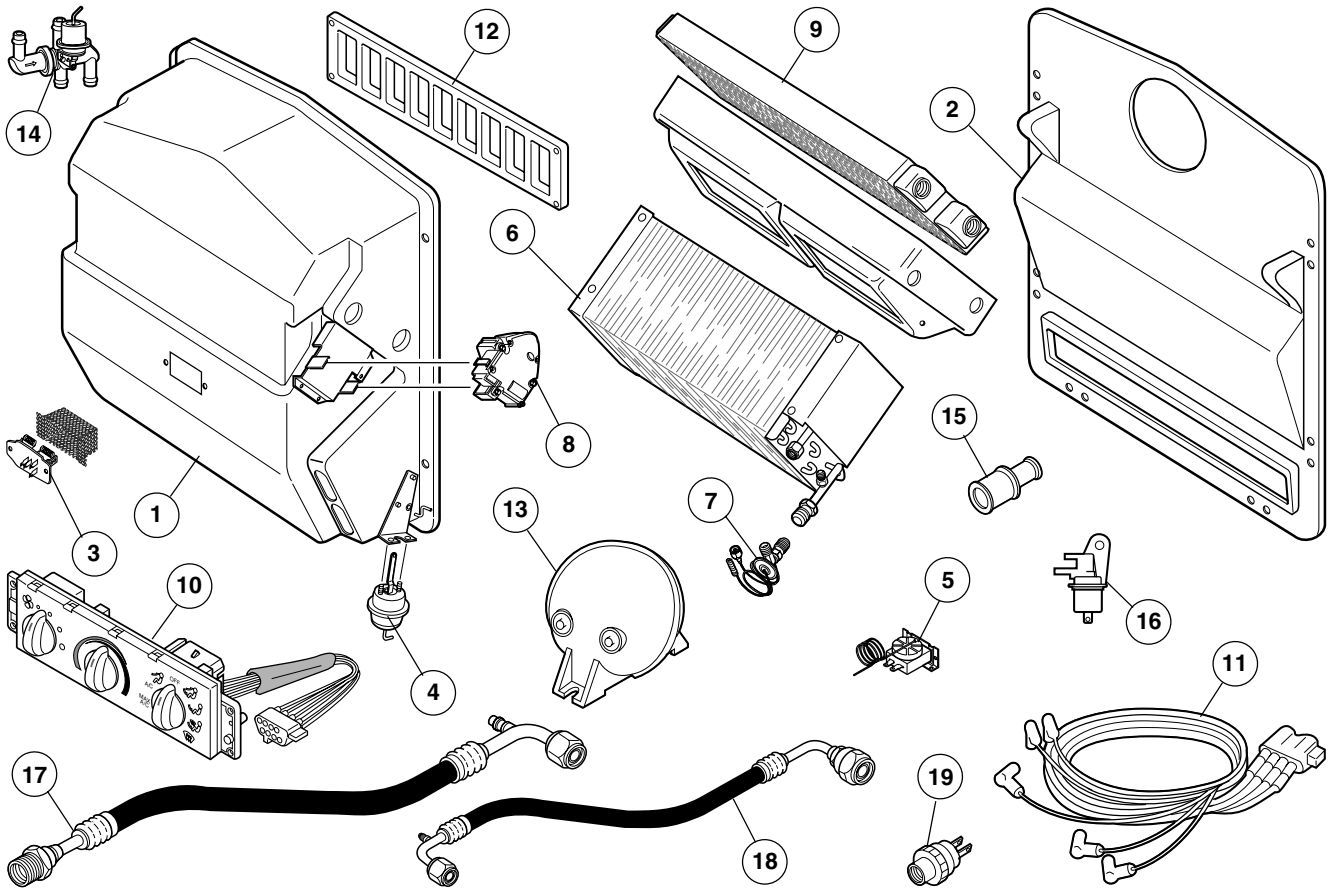
1. 071-00316 COVER
2. 042-00019 HEATER COIL
3. 071-00319 SEAL
4. 071-00317 BASE
5. 070-00259 BRACKET
6. 071-00418 DASH/FLOOR DOOR
7. 071-00302 PIVOT ROD
8. 071-00320 TUBE PLATE
9. 030-00046 VACUUM MOTOR
10. 071-00318 BLEND DOOR
11. 071-00321 TUBE PLATE
12. 041-00046 EVAPORATOR COIL
13. 034-00029 EXPANSION VALVE
14. 033-00003 THERMOSTAT
15. 034-00043 WATER VALVE
16. 062-00057 RETURN AIR GRILLE

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00120; EVAPORATOR ASSEMBLY 086-00160**	PAGE **A-11** 7/26/97

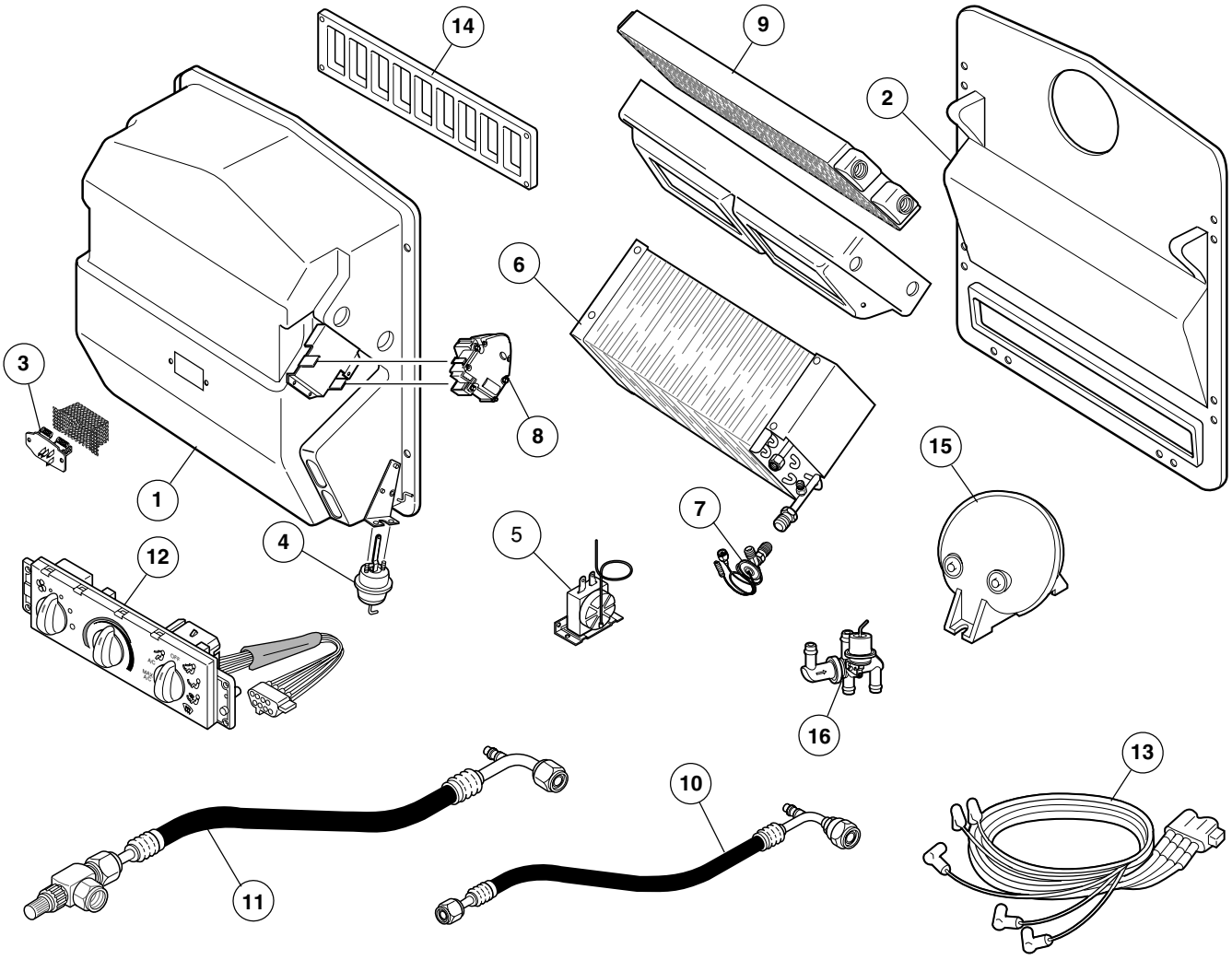


1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 041-00027 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 030-00044 SERVO MOTOR
9. 042-00010 HEATER COIL
10. 051-00103 #6 HOSE ASSEMBLY
11. 050-00130 SERVICE VALVE
12. 032-00058 CONTROL PANEL
13. 036-00475 VACUUM HARNESS
14. 062-00057 RETURN AIR GRILLE
15. 054-00002 VACUUM CANNISTER
16. 051-00357 #10 HOSE ASSEMBLY
17. 034-00037 WATER VALVE
18. 032-00188 VACUUM SOLENOID

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00322; EVAPORATOR ASSEMBLY 088-00083**	PAGE **A-15** 7/26/97

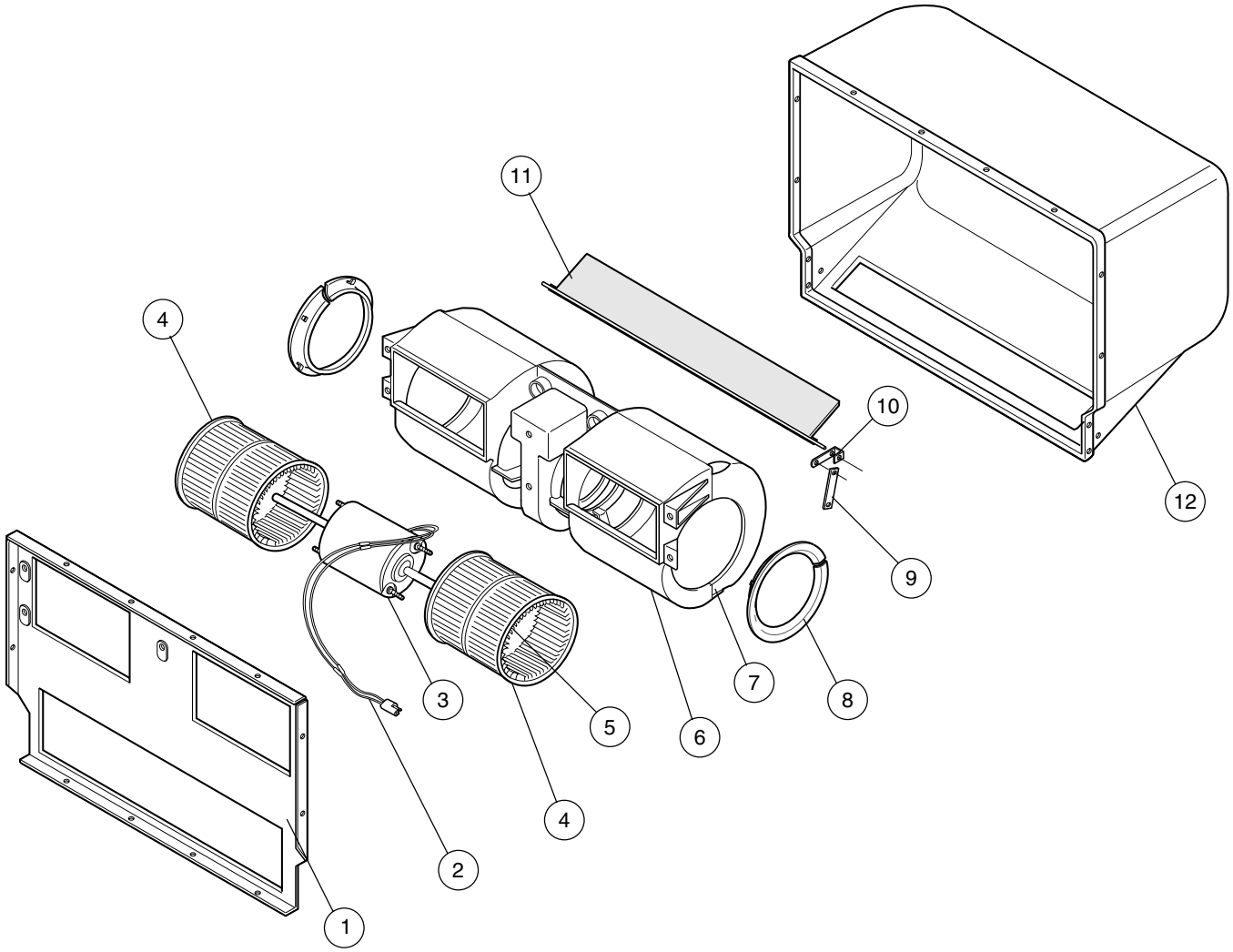


1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 041-00027 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 030-00044 SERVO MOTOR
9. 042-00010 HEATER COIL
10. 032-00058 CONTROL PANEL
11. 036-00475 VACUUM HARNESS
12. 062-00057 RETURN AIR GRILLE
13. 054-00002 VACUUM CANNISTER
14. 034-00037 WATER VALVE
15. 050-00091 SPLICE
16. 032-00188 VACUUM SOLENOID
17. 085-00360 #12 HOSE ASSEMBLY
18. 085-00362 #6 HOSE ASSEMBLY
19. 032-00067 BINARY SWITCH



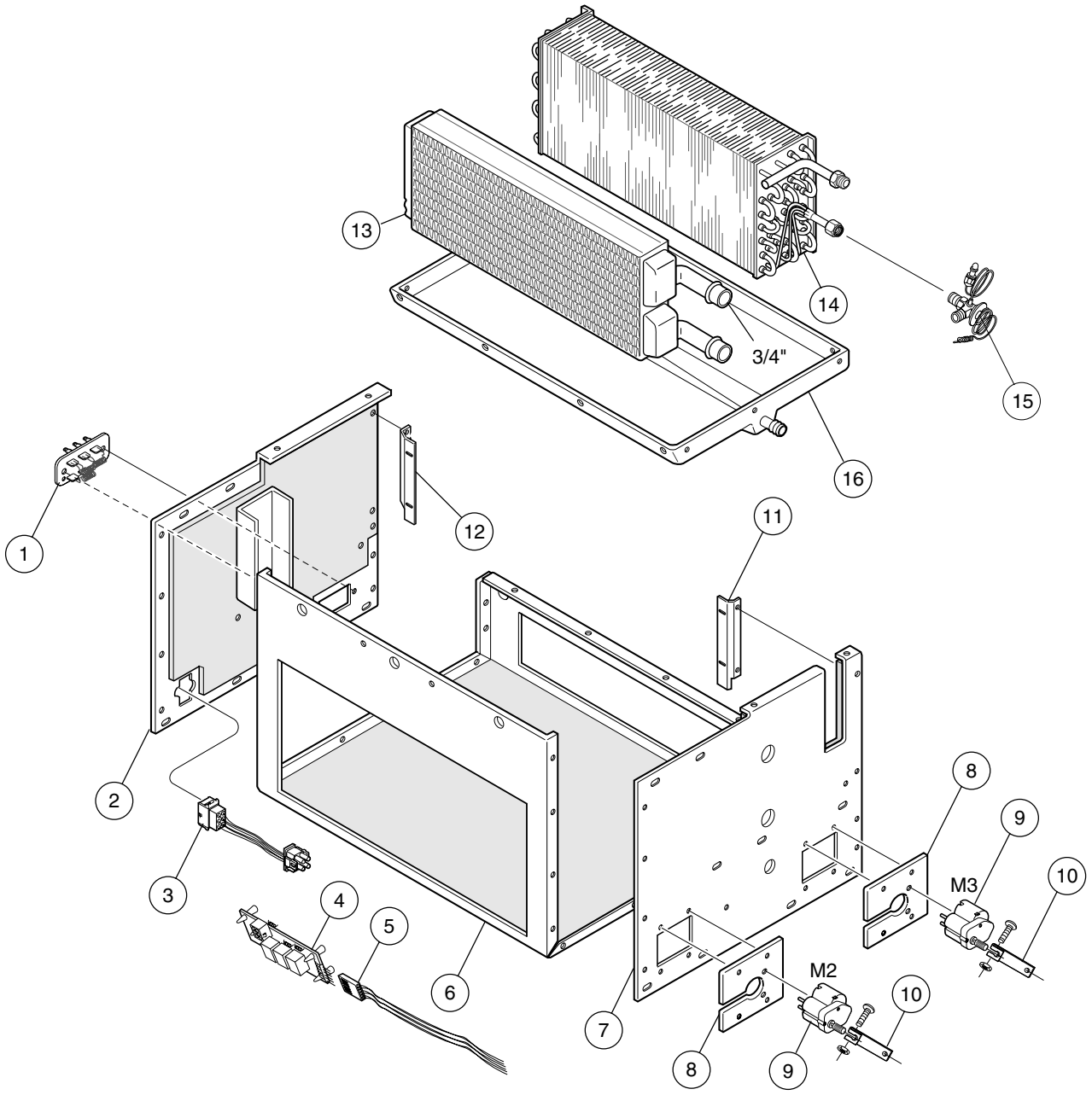
1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 041-00027 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 030-00044 SERVO MOTOR
9. 042-00010 HEATER COIL
10. 051-00105 #6 HOSE ASSEMBLY
11. 051-00099 #10 HOSE ASSEMBLY
12. 032-00058 CONTROL PANEL
13. 036-00098 VACUUM HARNESS
14. 062-00057 RETURN AIR GRILLE
15. 054-00002 VACUUM CANNISTER
16. 034-00014 WATER VALVE

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00096; EVAPORATOR ASSEMBLY 088-00084**	PAGE **A-17** 8/30/97



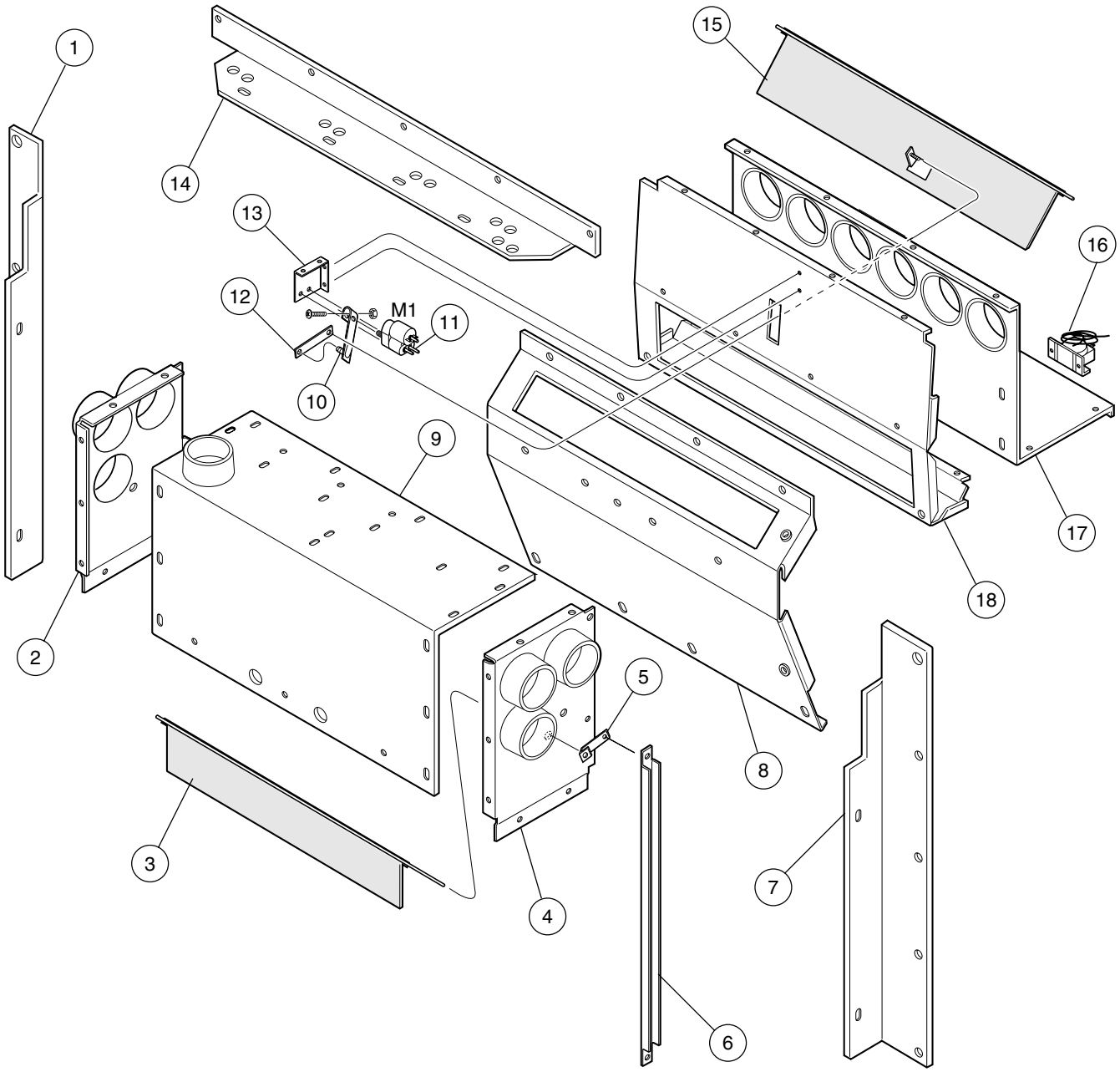
1. 060-00348 BLOWER PANEL
2. 036-00147 WIRE HARNESS
3. 030-00054 BLOWER MOTOR
4. 062-00258 BLOWER WHEEL
5. 022-00075 SPRING CLIP
6. 062-00259 HOUSING TOP
7. 062-00260 HOUSING BOTTOM
8. 062-00261 VENTURI
9. 070-00258 LINK
10. 073-00046 CRANK
11. 071-00412 BLEND DOOR
12. 060-00225 BLOWER COVER

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00114; EVAPORATOR ASSEMBLY 086-00150**	PAGE **A-20a** 12/7/98

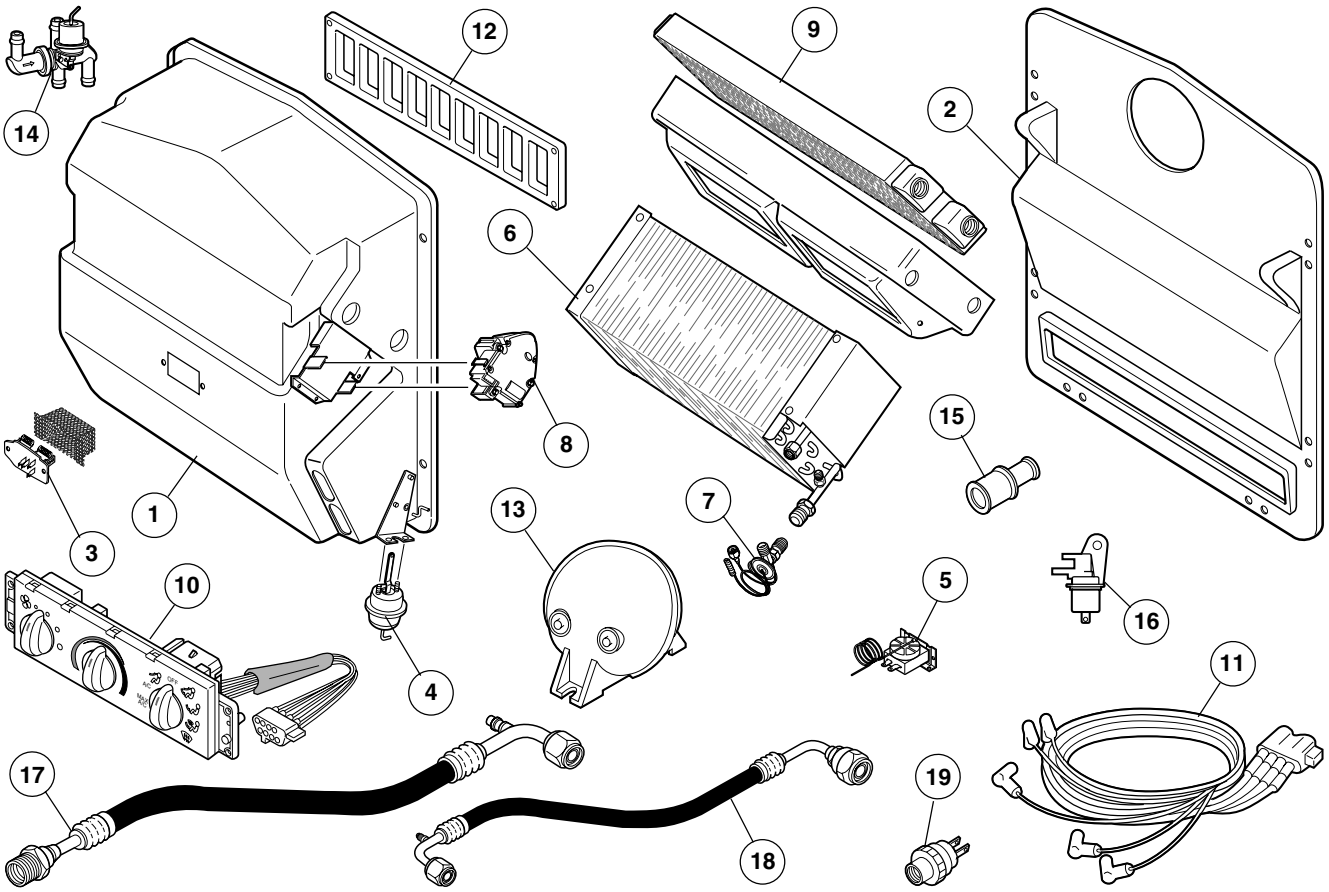


1. 035-00011 RESISTOR
2. 071-00385 SIDE PLATE
3. 036-00154 WIRE HARNESS
4. 035-00017 PC BOARD
5. 036-00173 WIRE HARNESS
6. 071-00435 WRAPPER
7. 071-00409 SIDE PLATE
8. 071-00386 MOTOR PLATE
9. 030-00063 GEAR MOTOR
10. 073-00050 CRANK
11. 070-00252 BRACKET, RH
12. 070-00253 BRACKET, LH
13. 042-00029 HEATER COIL
14. 041-00059 EVAPORATOR COIL
15. 034-00029 EXPANSION VALVE
16. 060-00329 DRAIN PAN

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00114; EVAPORATOR ASSEMBLY 086-00150**	PAGE **A-20b** 12/7/98

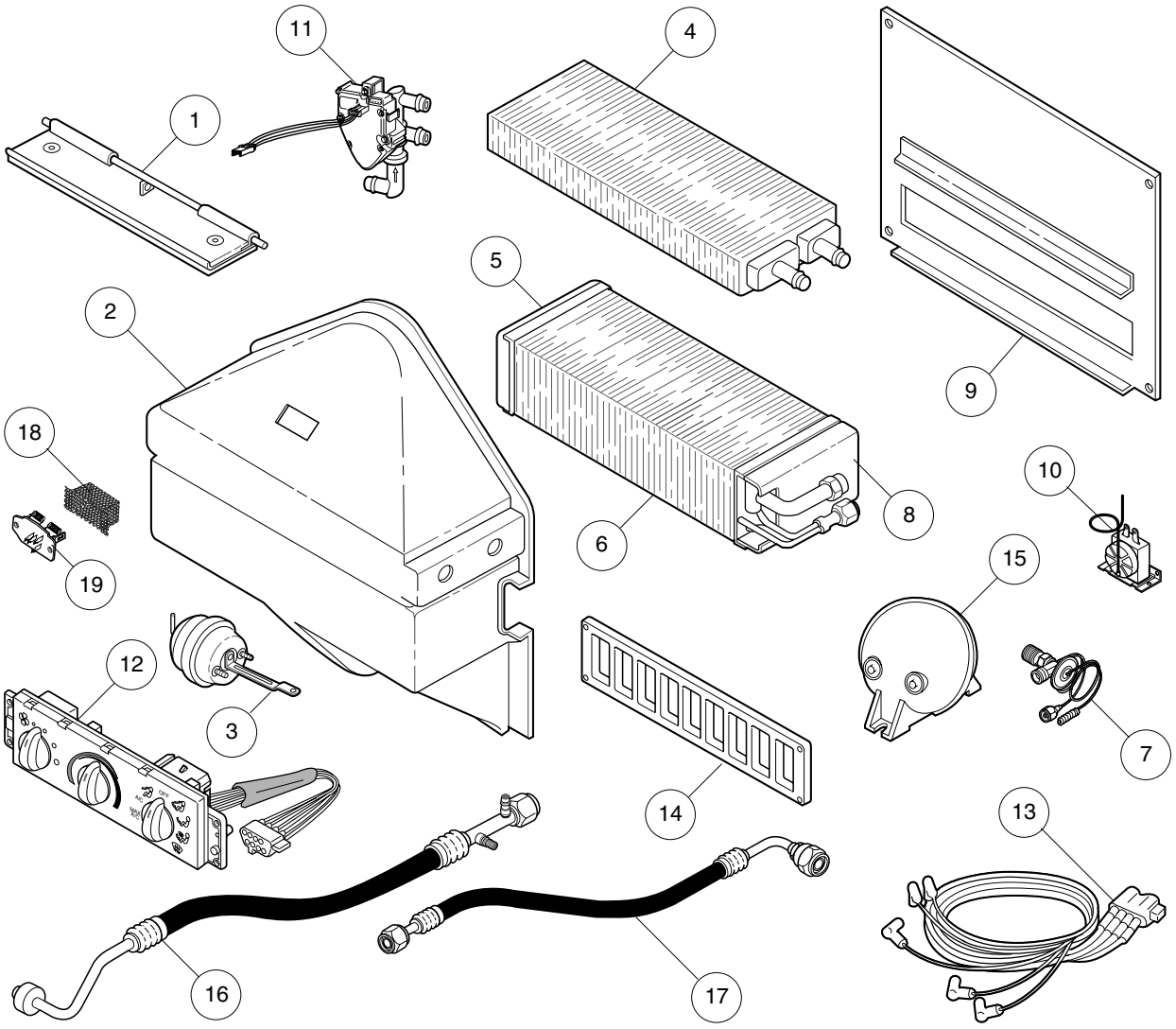


1. 070-00254 BRACKET, LH
2. 071-00433 LH PANEL
3. 071-00412 BLEND DOOR
4. 071-00432 PANEL, RH
5. 073-00046 CRANK
6. 070-00257 LINK
7. 070-00255 BRACKET, RH
8. 071-00388 LOWER DIVIDER
9. 071-00434 BACK PANEL
10. 073-00050 CRANK
11. 030-00063 GEAR MOTOR
12. 070-00258 LINK
13. 070-00261 BRACKET
14. 070-00256 BRACKET, TOP
15. 071-00430 DEFROST DOOR
16. 033-00003 THERMOSTAT
17. 071-00431 FRONT PANEL
18. 071-00389 UPPER DIVIDER

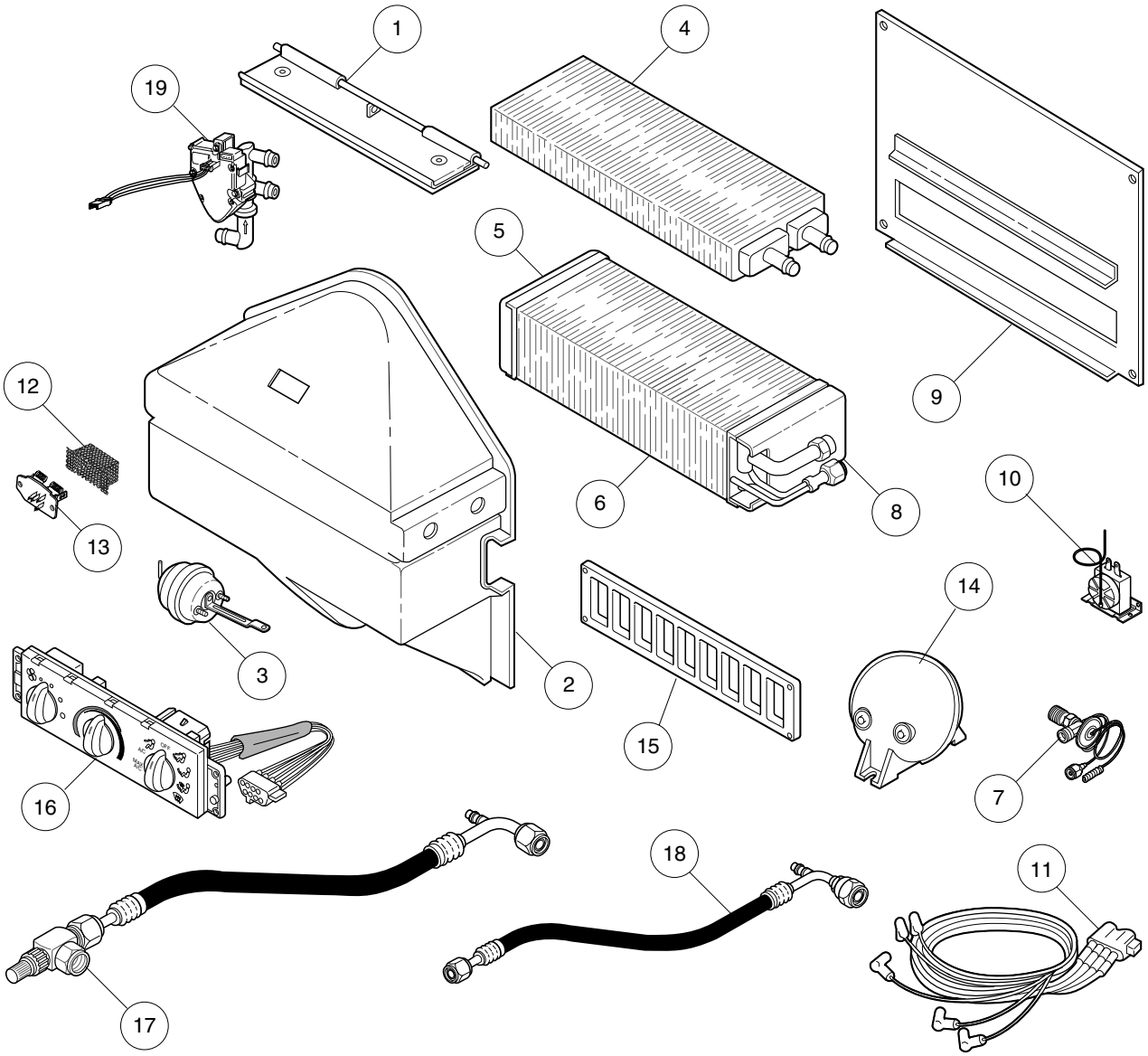


1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 034-00029 EXPANSION VALVE
7. 041-00027 EVAPORATOR COIL
8. 042-00010 HEATER COIL
9. 030-00044 SERVO MOTOR
10. 032-00058 CONTROL PANEL
11. 036-00475 VACUUM HARNESS
12. 062-00057 RETURN AIR GRILLE
13. 054-00002 VACUUM CANNISTER
14. 034-00037 WATER VALVE
15. 050-00091 SPLICE
16. 032-00188 VACUUM SOLENOID
17. 085-00360 #12 HOSE ASSEMBLY
18. 085-00362 #6 HOSE ASSEMBLY
19. 032-00067 BINARY SWITCH

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00343; EVAPORATOR ASSEMBLY 088-00189**	PAGE **A-26** 7/26/97

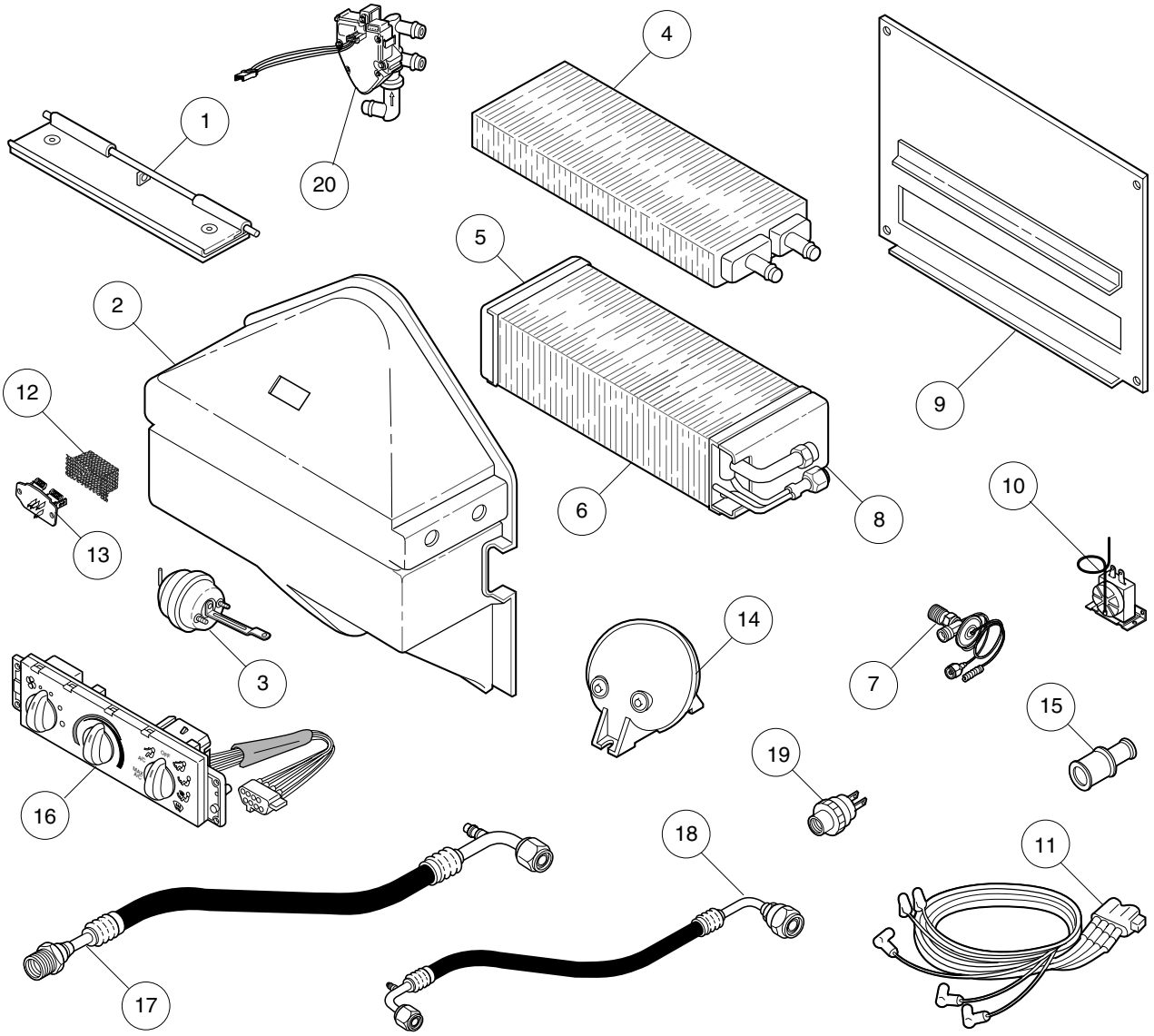


1. 071-00425 DOOR WITH ROD
2. 060-00480 CASE ASSEMBLY
3. 030-00046 VACUUM MOTOR
4. 042-00019 HEATER COIL
5. 062-00319 END CAP
6. 041-00046 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 062-00318 END CAP
9. 071-00297 BACK PANEL
10. 033-00003 THERMOSTAT
11. 034-00105 WATER VALVE ASSY.
12. 032-00058 CONTROL PANEL
13. 036-00504 VACUUM HARNESS
14. 062-00057 RETURN AIR GRILLE
15. 054-00002 VACUUM CANNISTER
16. 051-00357 #10 HOSE ASSEMBLY
17. 085-00466 #6 HOSE ASSEMBLY
18. 071-00143 SHIELD
19. 035-00006 RESISTOR

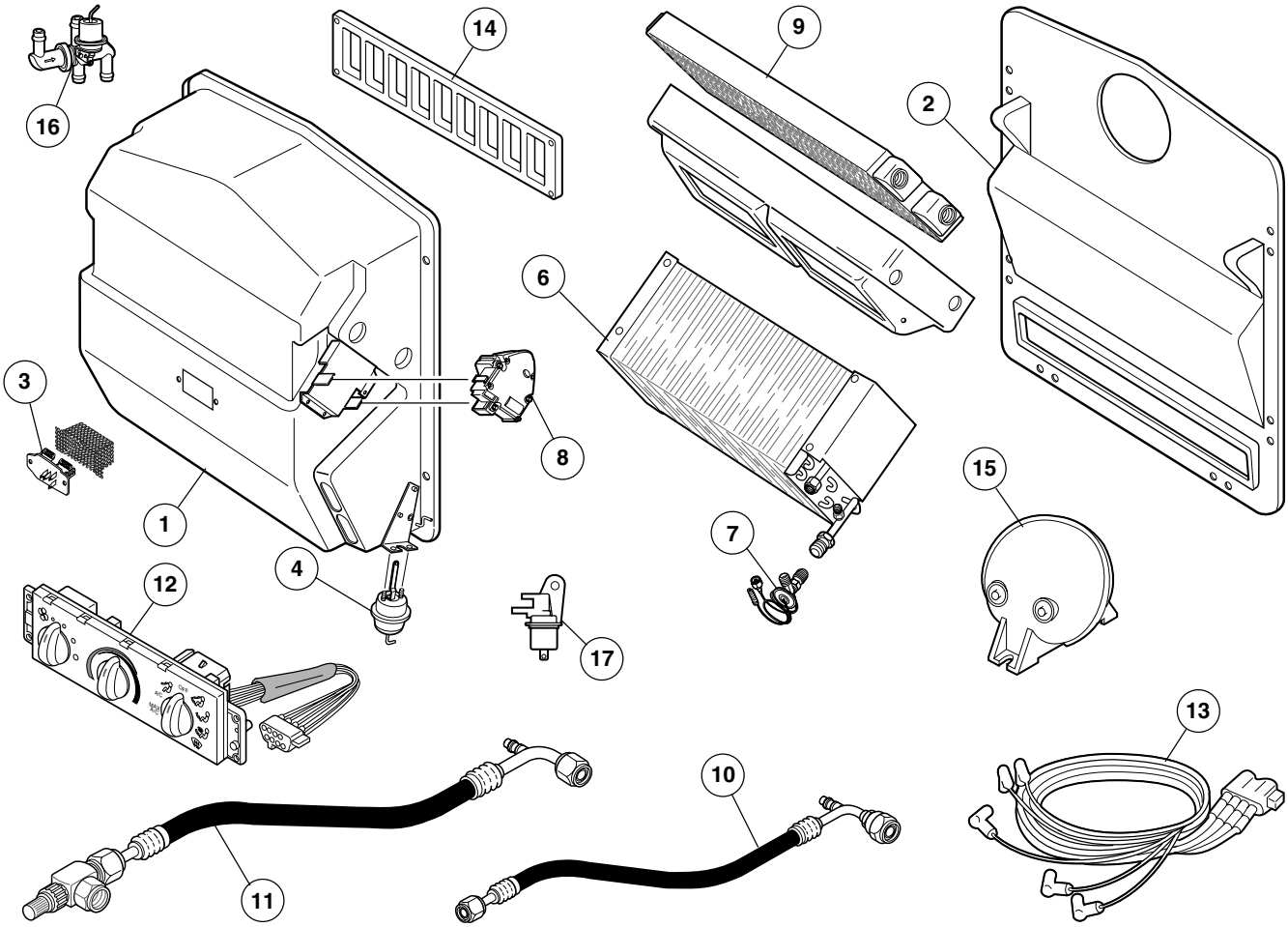


1. 071-00425 DOOR WITH ROD
2. 060-00480 CASE ASSEMBLY
3. 030-00046 VACUUM MOTOR
4. 042-00019 HEATER COIL
5. 062-00319 END CAP
6. 041-00046 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 062-00318 END CAP
9. 071-00297 BACK PANEL
10. 033-00003 THERMOSTAT
11. 036-00504 VACUUM HARNESS
12. 071-00143 SHIELD
13. 035-00006 RESISTOR
14. 054-00002 VACUUM CANNISTER
15. 062-00057 RETURN AIR GRILLE
16. 032-00058 CONTROL PANEL
17. 051-00099 #10 HOSE ASSEMBLY
18. 051-00105 #6 HOSE ASSEMBLY
19. 034-00105 WATER VALVE ASSY.

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00356; EVAPORATOR ASSEMBLY 088-00203**	PAGE **A-28** 8/11/97



1. 071-00425 DOOR WITH ROD
2. 060-00480 CASE ASSEMBLY
3. 030-00046 VACUUM MOTOR
4. 042-00019 HEATER COIL
5. 062-00319 END CAP
6. 041-00046 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 062-00318 END CAP
9. 071-00297 BACK PANEL
10. 033-00003 THERMOSTAT
11. 036-00504 VACUUM HARNESS
12. 071-00143 SHIELD
13. 035-00006 RESISTOR
14. 054-00002 VACUUM CANNISTER
15. 050-00091 SPLICE
16. 032-00058 CONTROL PANEL
17. 085-00360 #12 HOSE ASSEMBLY
18. 085-00362 #6 HOSE ASSEMBLY
19. 032-00067 BINARY SWITCH
20. 034-00105 WATER VALVE ASSY.

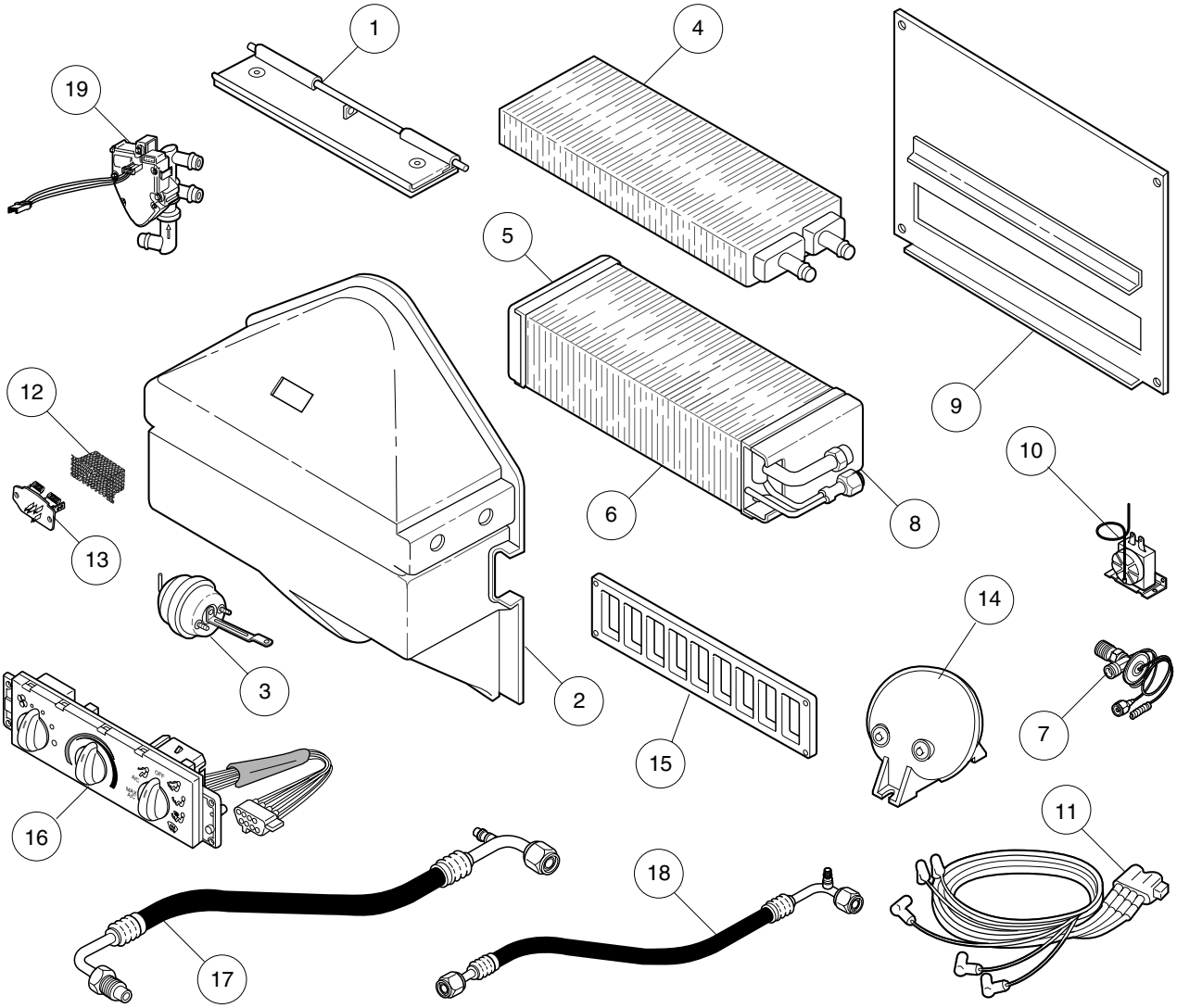


1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 041-00027 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 030-00044 SERVO MOTOR
9. 042-00010 HEATER COIL
10. 051-00105 #6 HOSE ASSEMBLY
11. 051-00099 #10 HOSE ASSEMBLY
12. 032-00058 CONTROL PANEL
13. 036-00475 VACUUM HARNESS
14. 062-00057 RETURN AIR GRILLE
15. 054-00002 VACUUM CANNISTER
16. 034-00037 WATER VALVE
17. 032-00188 VACUUM SOLENOID

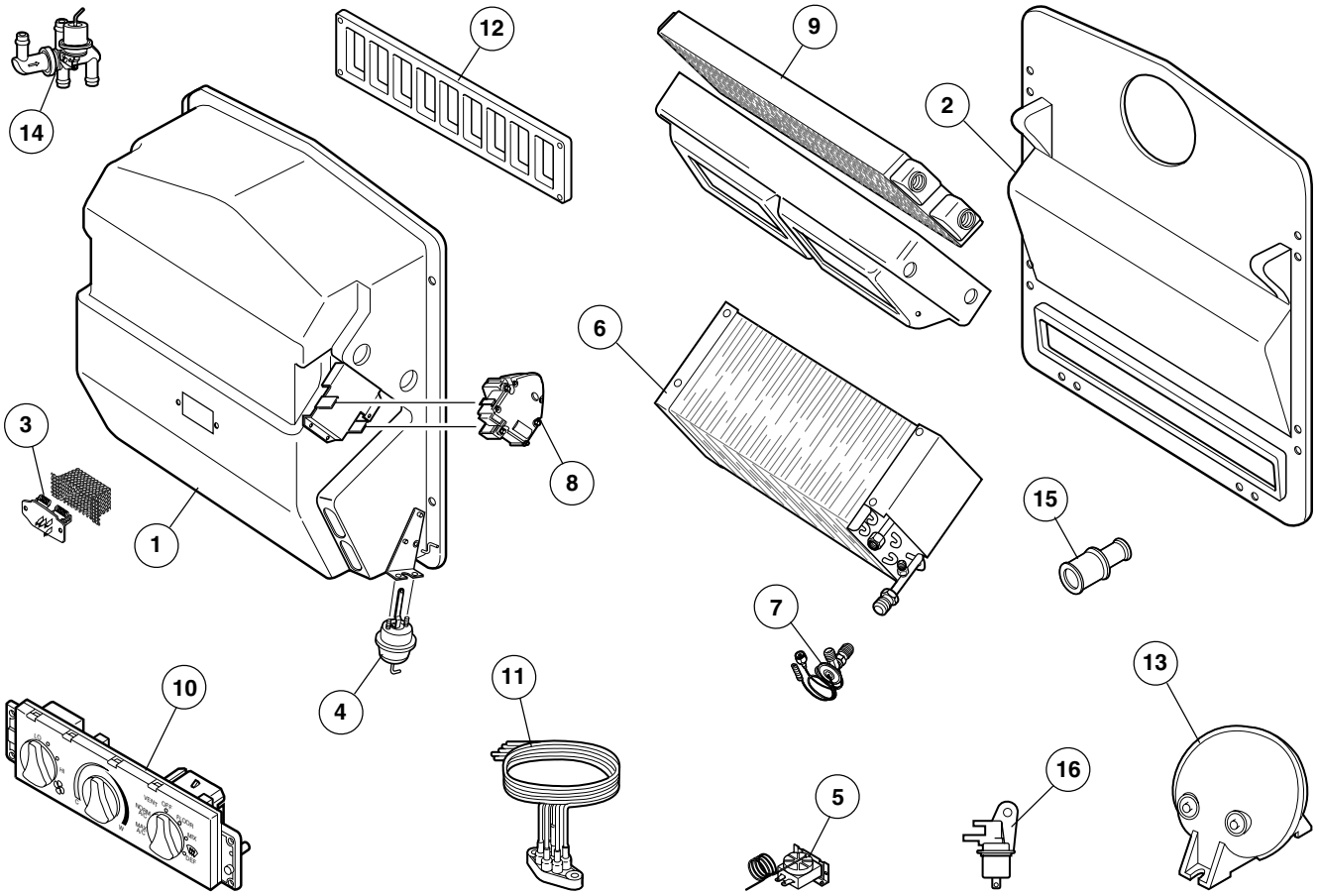
SPECIFIC CLIMATE SYSTEMS, INC.
1200 WEST RISINGER ROAD
FORT WORTH, TEXAS 76134
TEL. 817-293-5313

MASTER SERVICE MANUAL
KIT NO. 090-00323; EVAPORATOR ASSEMBLY 088-00086

PAGE **A-32** 7/26/97

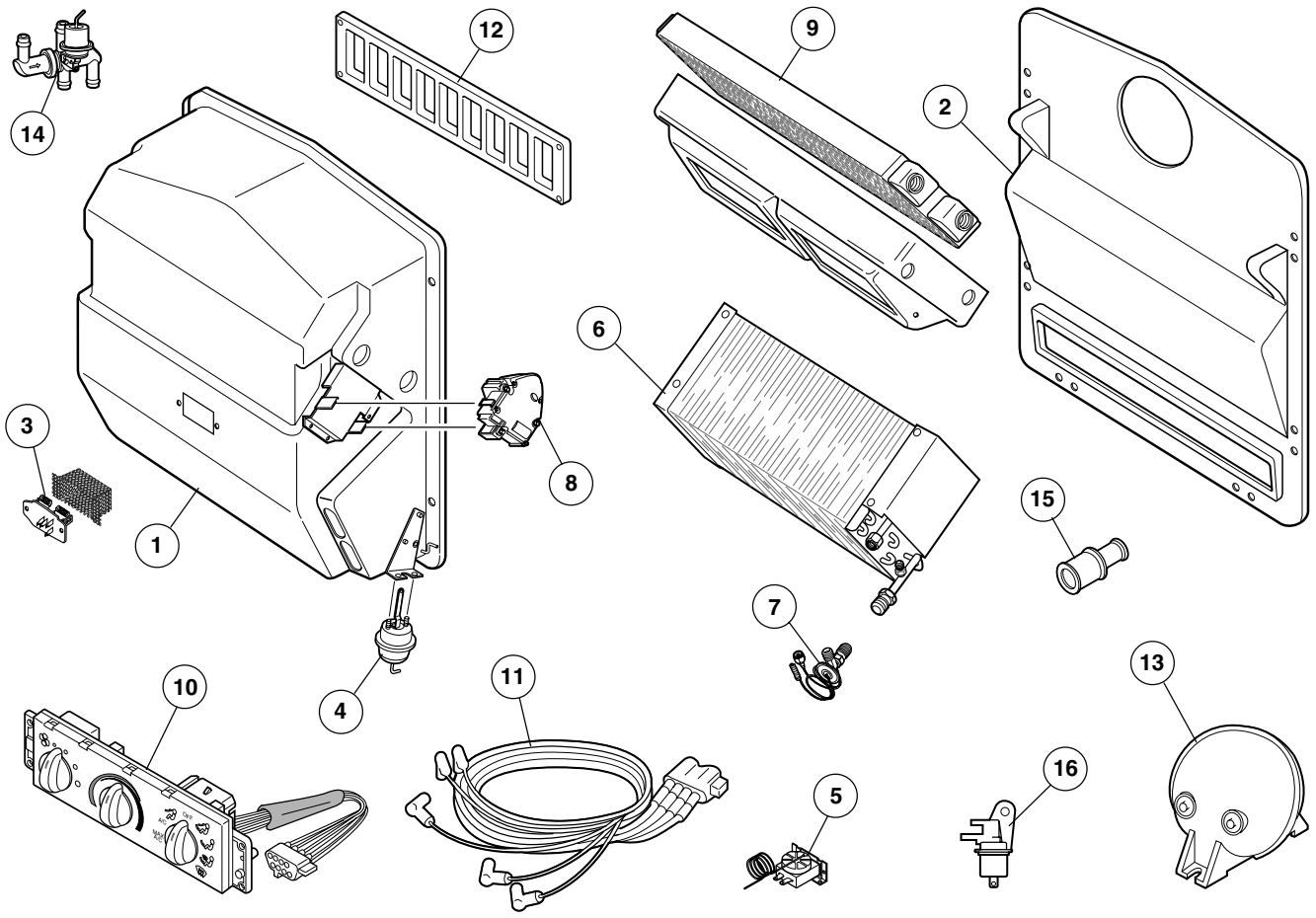


1. 071-00425 DOOR WITH ROD
2. 060-00480 CASE ASSEMBLY
3. 030-00046 VACUUM MOTOR
4. 042-00019 HEATER COIL
5. 062-00319 END CAP
6. 041-00046 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 062-00318 END CAP
9. 071-00297 BACK PANEL
10. 033-00003 THERMOSTAT
11. 036-00504 VACUUM HARNESS
12. 071-00143 SHIELD
13. 035-00006 RESISTOR
14. 054-00002 VACUUM CANNISTER
15. 062-00057 RETURN AIR GRILLE
16. 032-00058 CONTROL PANEL
17. 085-00452 #10 HOSE ASSEMBLY
18. 085-00451 #6 HOSE ASSEMBLY
19. 034-00105 WATER VALVE ASSY.

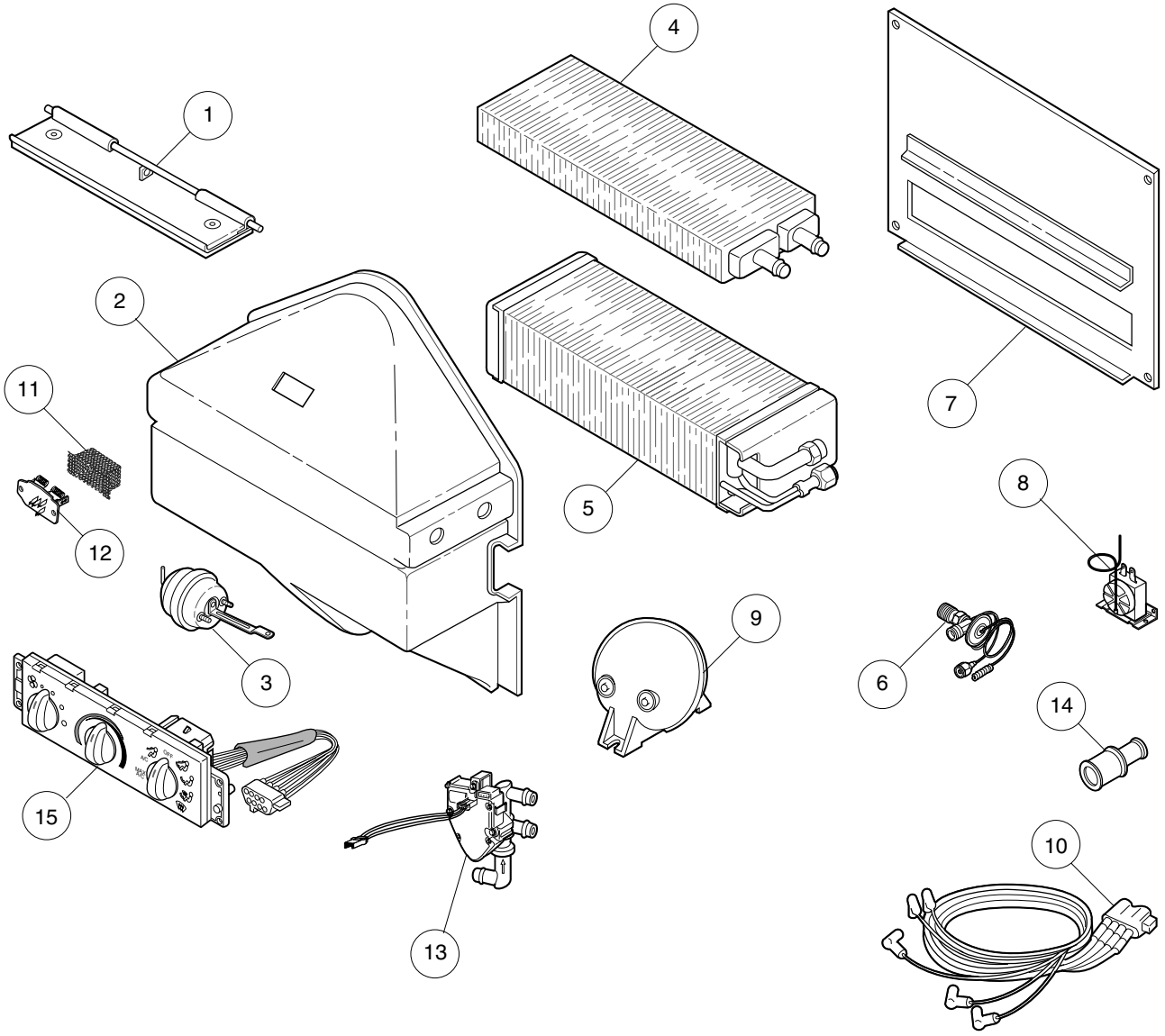


1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 041-00027 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 030-00044 SERVO MOTOR
9. 042-00010 HEATER COIL
10. 032-00193 CONTROL PANEL
11. 036-00125 VACUUM HARNESS
12. 062-00057 RETURN AIR GRILLE
13. 054-00002 VACUUM CANNISTER
14. 034-00037 WATER VALVE
15. 050-00091 SPLICE
16. 032-00188 VACUUM SOLENOID

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00333; EVAPORATOR ASSEMBLY 088-00176**	PAGE **A-40** 7/26/97



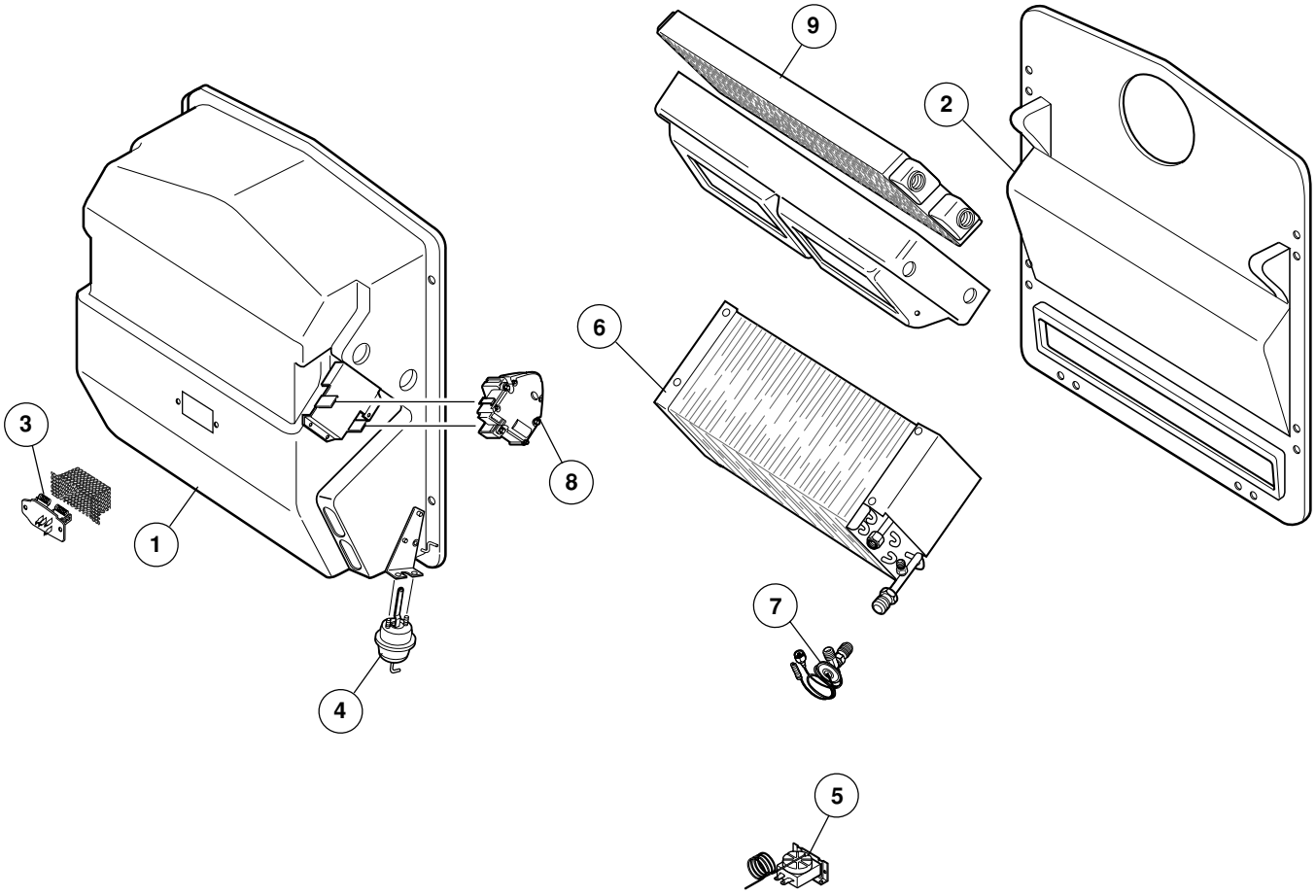
1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 041-00027 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 030-00044 SERVO MOTOR
9. 042-00010 HEATER COIL
10. 032-00058 CONTROL PANEL
11. 036-00475 VACUUM HARNESS
12. 062-00057 RETURN AIR GRILLE
13. 054-00002 VACUUM CANNISTER
14. 034-00037 WATER VALVE
15. 050-00091 SPLICE
16. 032-00188 VACUUM SOLENOID



1. 071-00175 RECIRC. DOOR
2. 060-00144 HOUSING
3. 030-00035 VACUUM MOTOR
4. 042-00010 HEATER COIL
5. 041-00026 EVAPORATOR COIL
6. 034-00029 EXPANSION VALVE
7. 071-00174 BACK PANEL
8. 033-00003 THERMOSTAT
9. 054-00002 VACUUM CANNISTER
10. 036-00504 VACUUM HARNESS
11. 071-00143 SHIELD
12. 035-00006 RESISTOR
13. 034-00105 WATER VALVE ASSY.
14. 050-00091 SPLICE
15. 032-00058 CONTROL PANEL

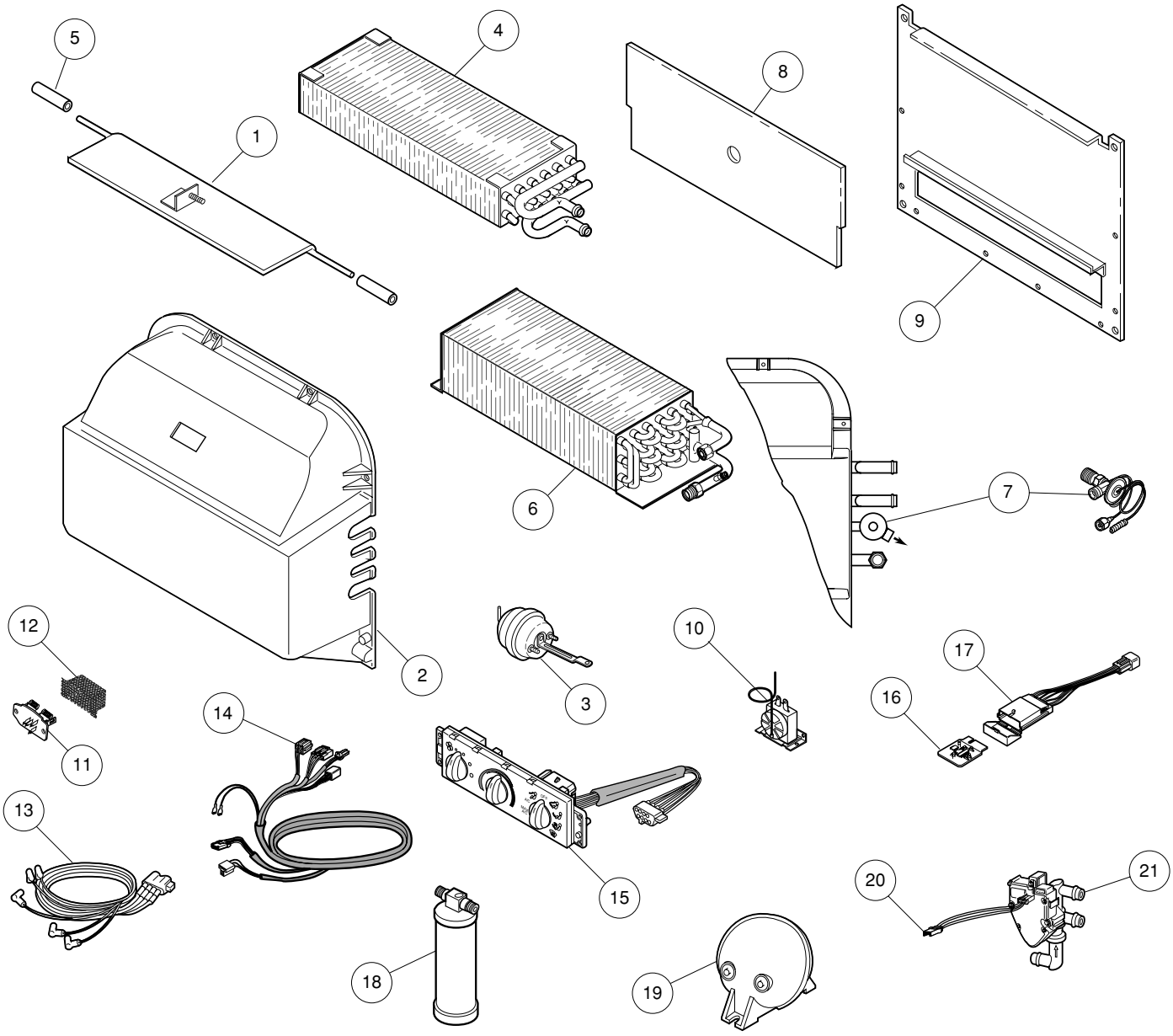
NS 062-00130 'Y' HOSE ADAPTER*

*NS = NOT SHOWN

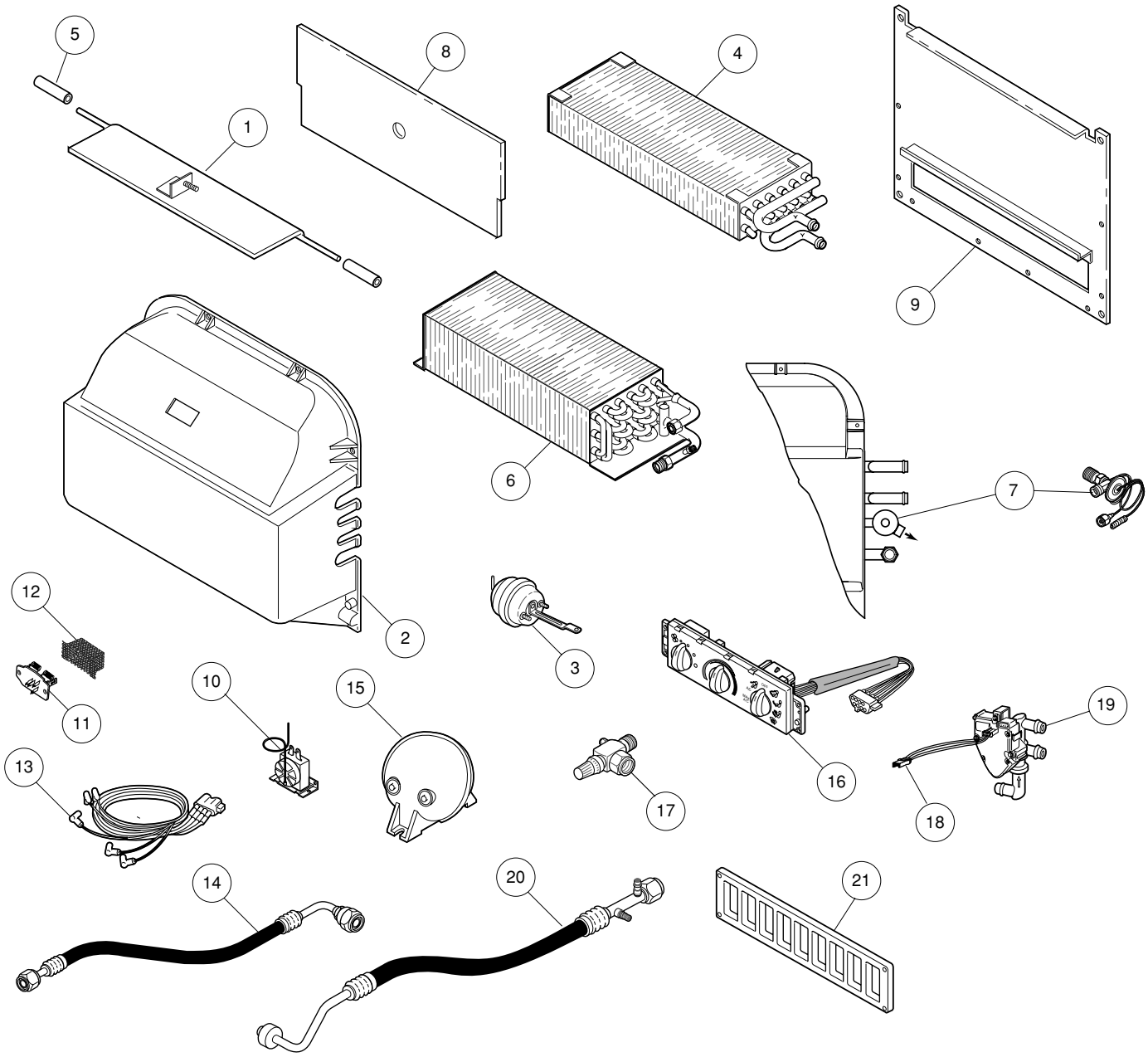


1. 060-00146 HOUSING
2. 060-00131 BACK PANEL
3. 035-00006 RESISTOR
4. 030-00025 VACUUM MOTOR
5. 033-00003 THERMOSTAT
6. 041-00027 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 030-00044 SERVO MOTOR
9. 042-00010 HEATER COIL

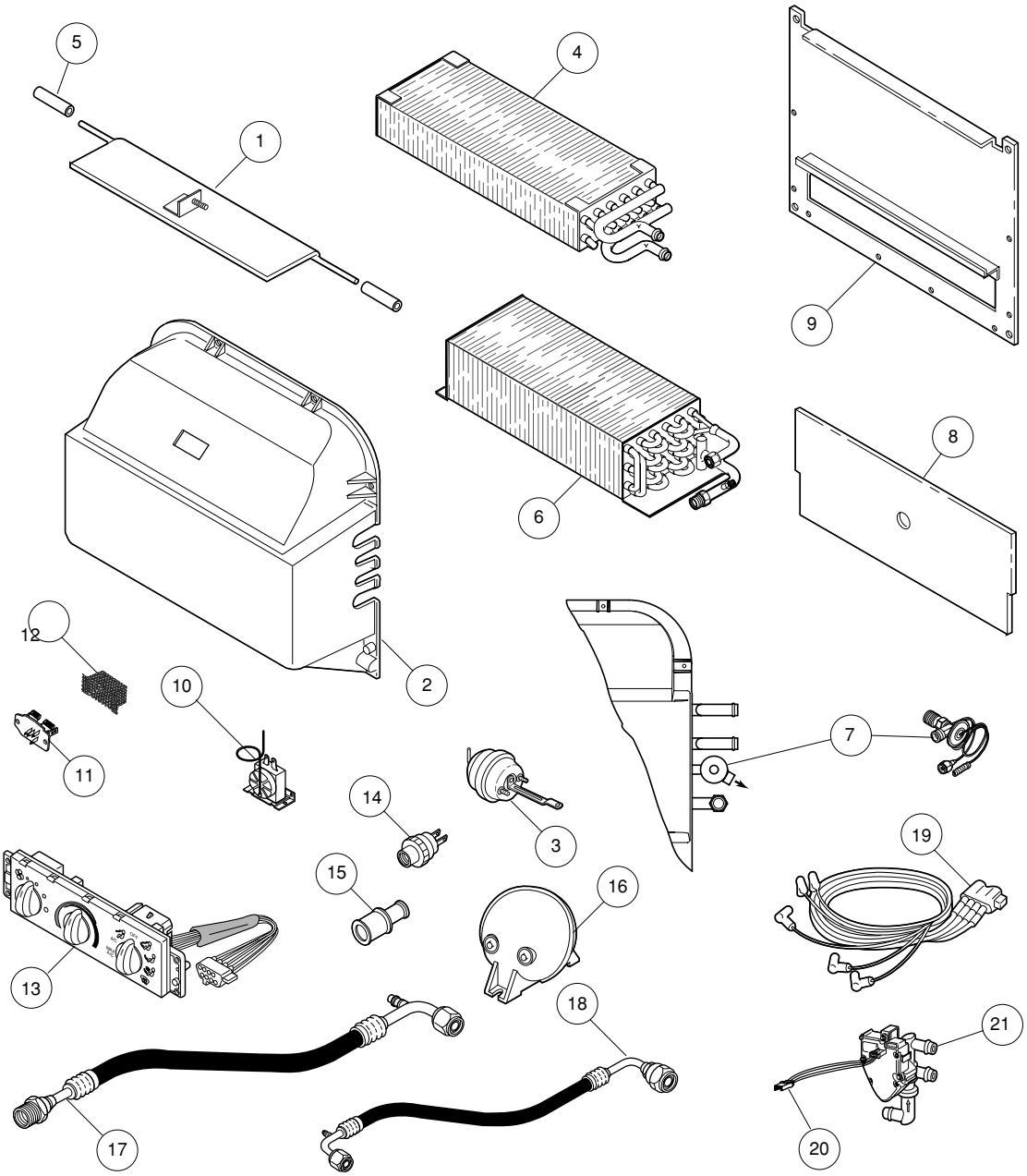
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 090-00404; EVAPORATOR ASSEMBLY 088-00176**	PAGE **A-52** 1/22/99



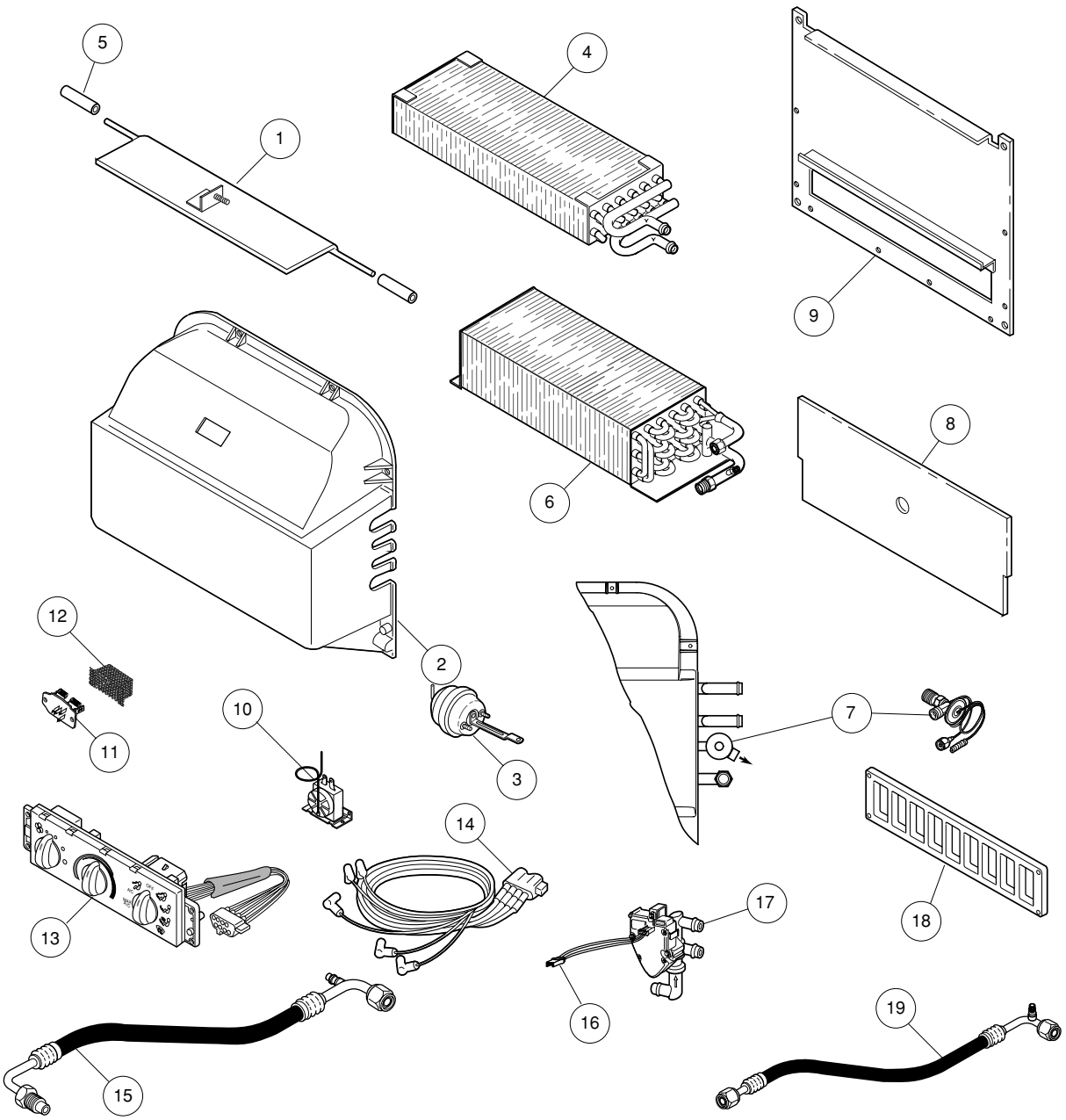
1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 036-00101 VACUUM HARNESS
14. 036-00115 WIRE HARNESS
15. 032-00058 CONTROL PANEL
16. 031-00006 CIRCUIT BOARD
17. 036-00114 HARNESS, PCB
18. 054-00001 RECEIVER DRIER
19. 054-00002 VACUUM CANNISTER
20. 036-00467 WIRE HARNESS
21. 034-00036 WATER VALVE



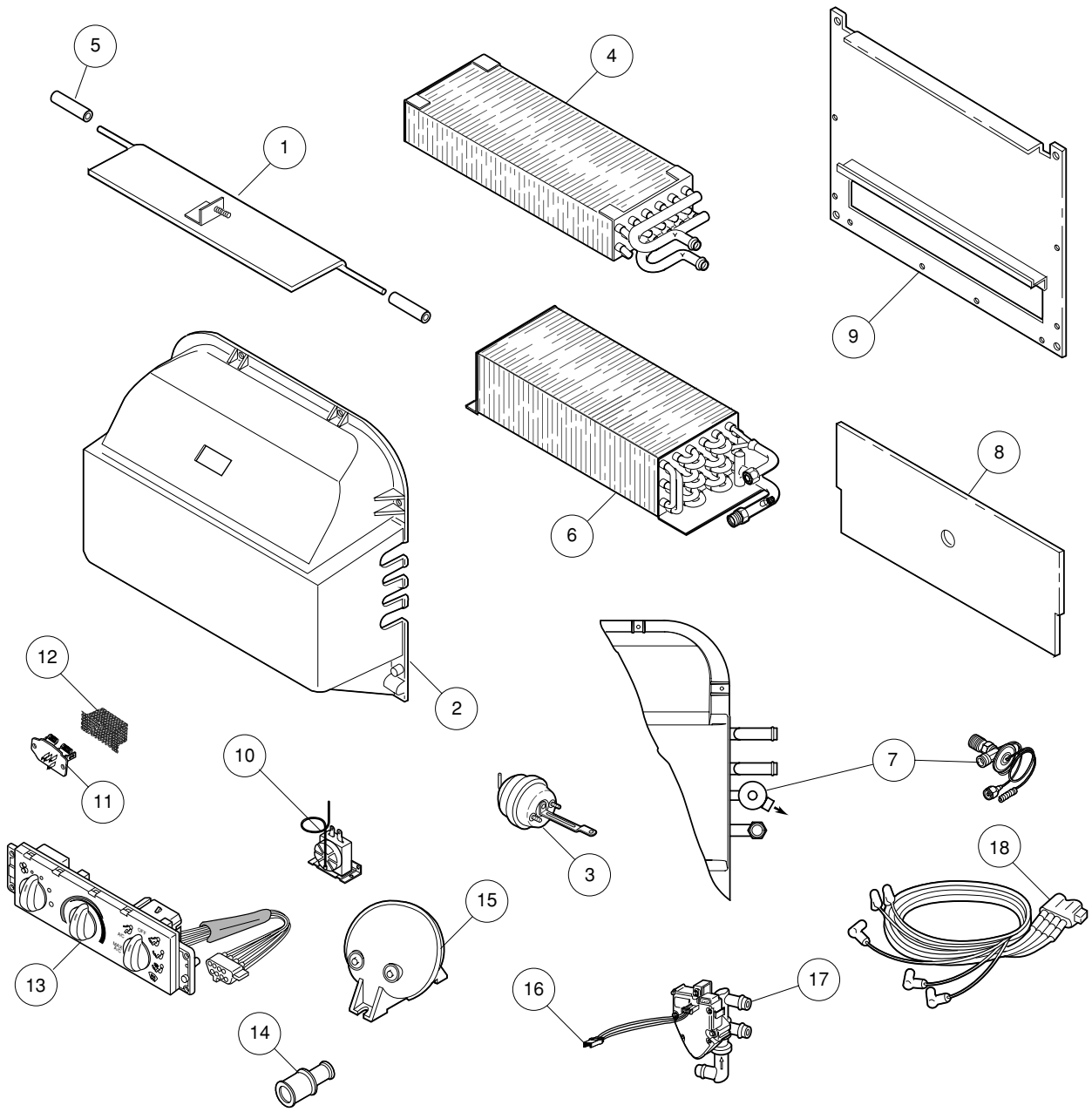
1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 036-00504 VACUUM HARNESS
14. 085-00466 #6 HOSE ASSEMBLY
15. 054-00002 VACUUM CANNISTER
16. 032-00058 CONTROL PANEL
17. 034-00049 SERVICE VALVE
18. 036-00467 WIRE HARNESS
19. 034-00036 WATER VALVE
20. 051-00357 #10 HOSE ASSEMBLY
21. 062-00057 RETURN AIR GRILLE



1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00052 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 032-00058 CONTROL PANEL
14. 032-00067 BINARY SWITCH
15. 050-00091 5/8 X 3/4 SPLICE
16. 054-00002 VACUUM CANNISTER
17. 085-00360 #12 HOSE ASSEMBLY
18. 085-00362 #6 HOSE ASSEMBLY
19. 036-00504 VACUUM HARNESS
20. 036-00467 WIRE HARNESS
21. 034-00036 WATER VALVE



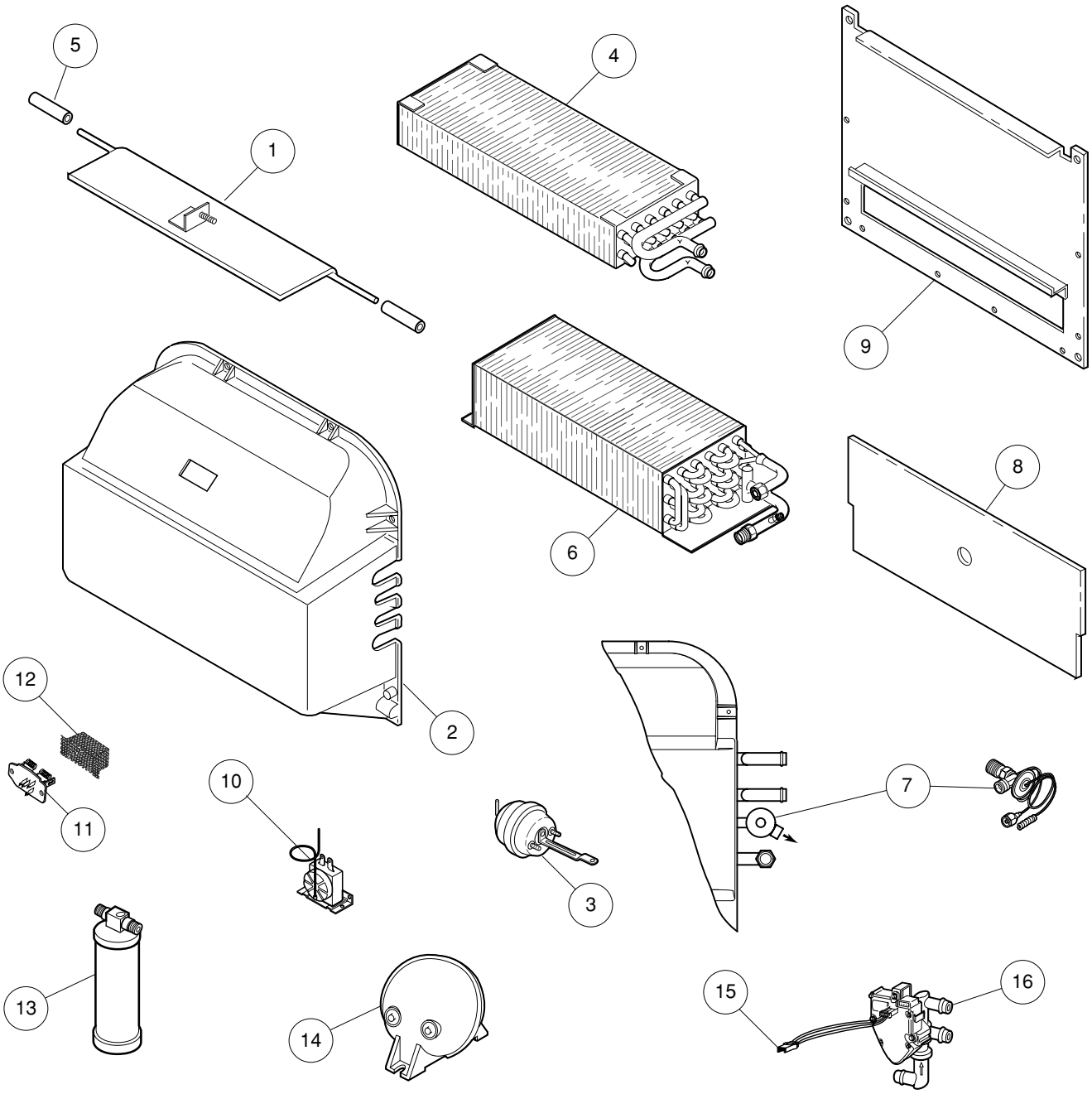
1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 032-00058 CONTROL PANEL
14. 036-00504 VACUUM HARNESS
15. 085-00452 #10 HOSE ASSEMBLY
16. 036-00467 WIRE HARNESS
17. 034-00036 WATER VALVE
18. 062-00057 RETURN AIR GRILLE
19. 085-00451 #6 HOSE ASSEMBLY



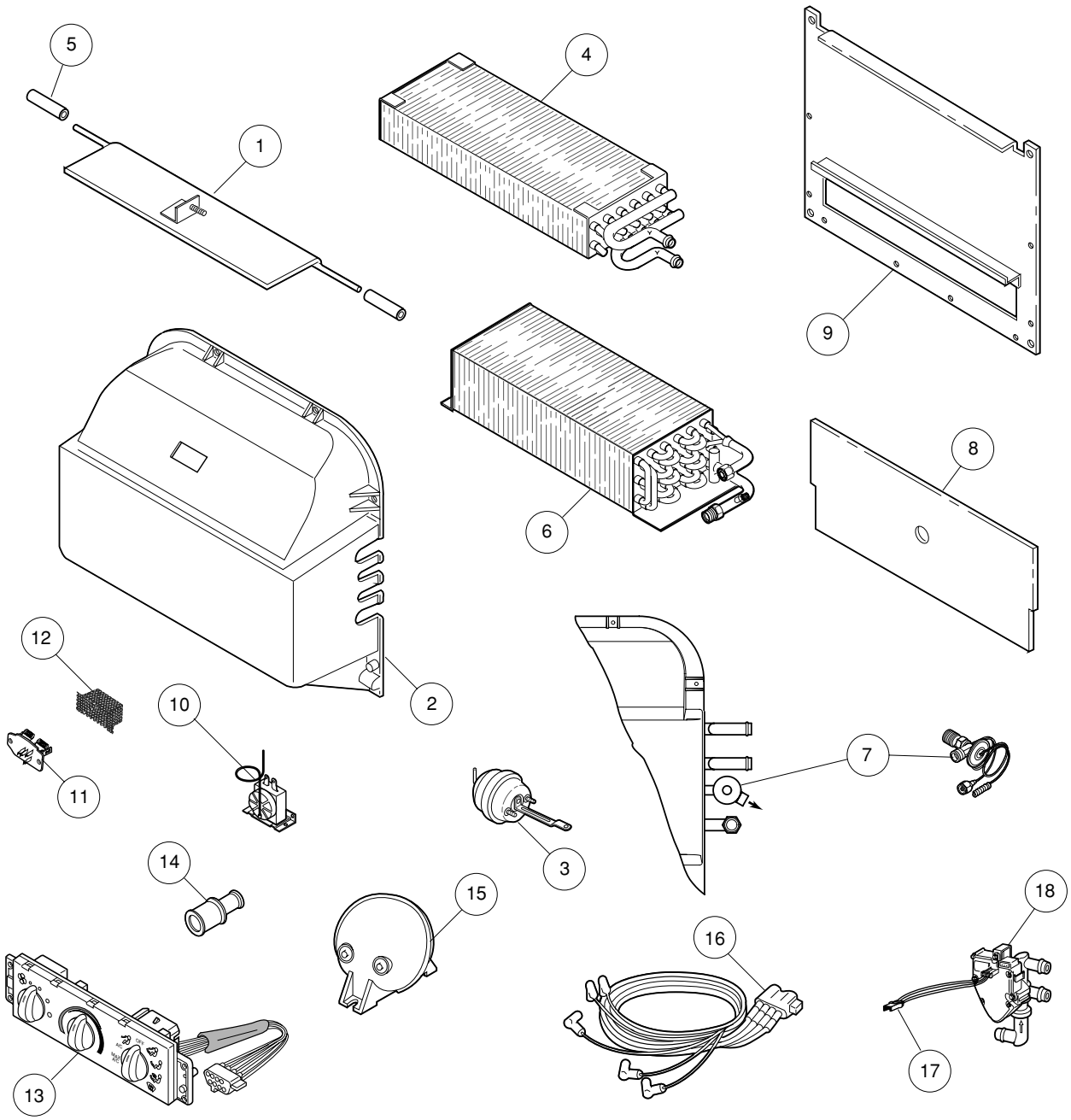
1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 032-00058 CONTROL PANEL
14. 050-00091 5/8 X 3/4 SPLICE
15. 054-00002 VACUUM CANNISTER
16. 036-00467 WIRE HARNESS
17. 034-00036 WATER VALVE
18. 036-00504 VACUUM HARNESS

NS 062-00130 'Y' HOSE ADAPTER*

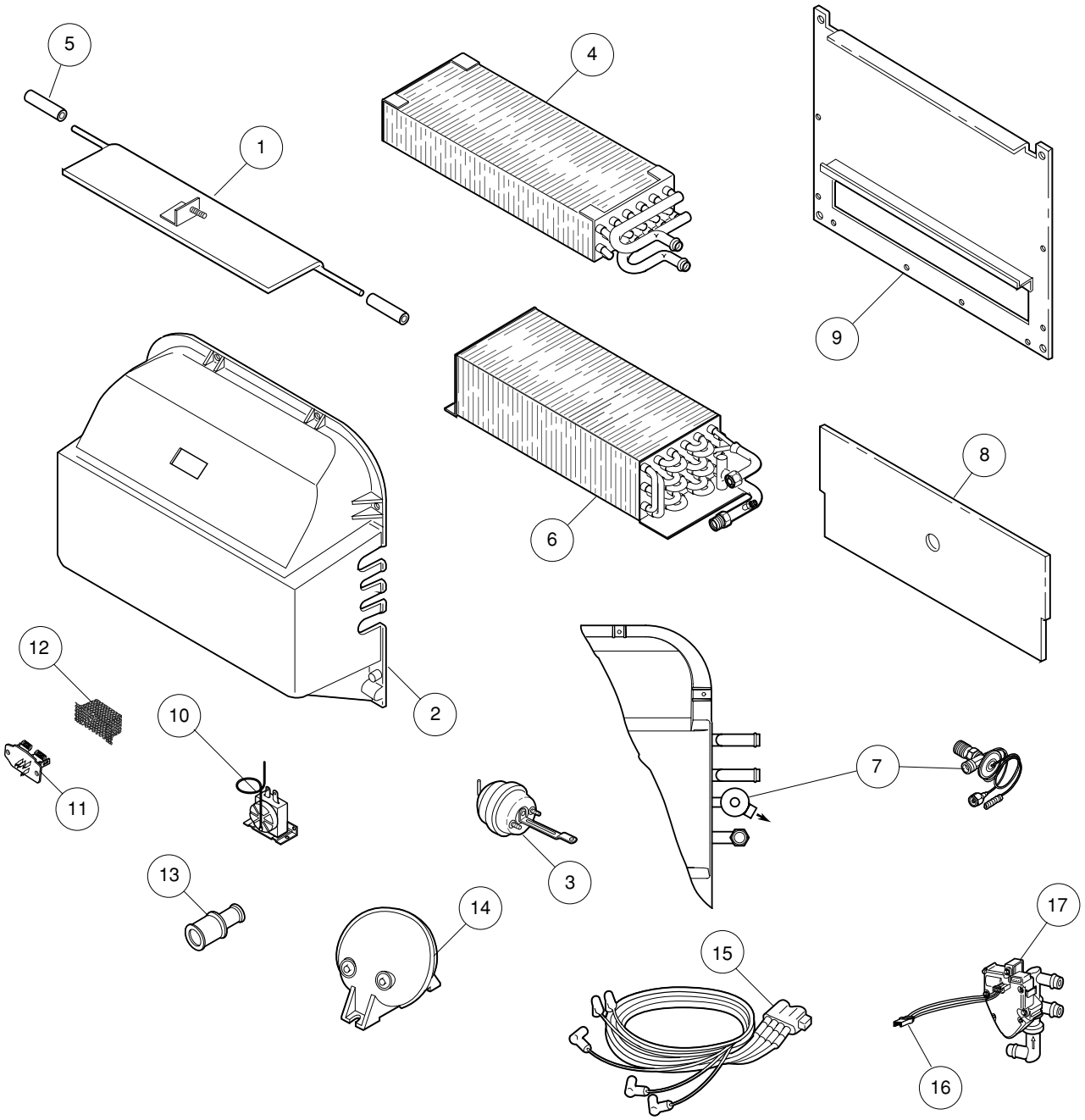
*NS = NOT SHOWN



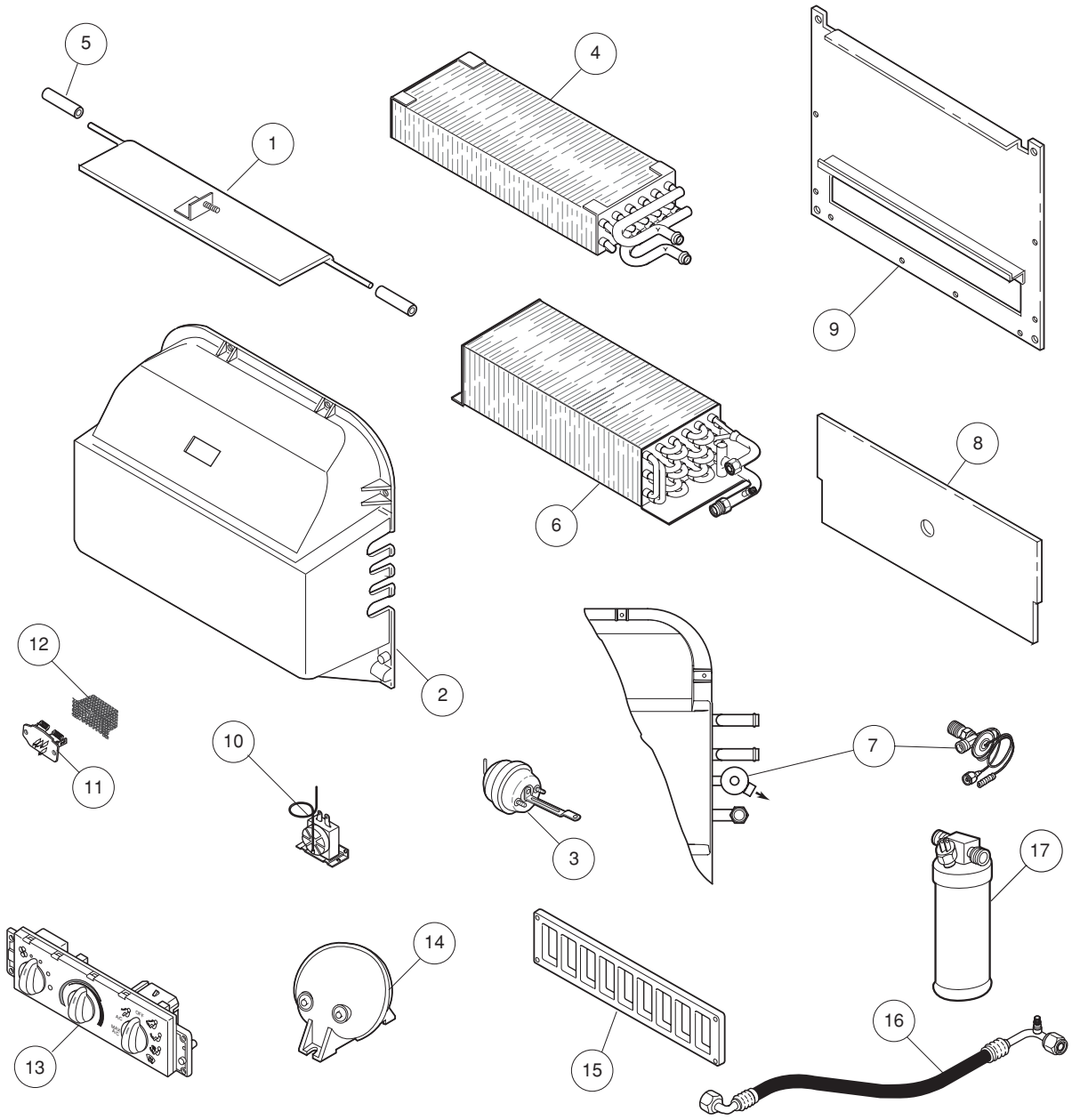
1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 054-00001 RECEIVER DRIER
14. 054-00002 VACUUM CANNISTER
15. 036-00467 WIRE HARNESS
16. 034-00036 WATER VALVE



1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00052 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 032-00058 CONTROL PANEL
14. 050-00091 5/8 X 3/4 SPLICE
15. 054-00002 VACUUM CANNISTER
16. 036-00504 VACUUM HARNESS
17. 036-00467 WIRE HARNESS
18. 034-00036 WATER VALVE



1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00052 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 SHIELD
13. 050-00091 5/8 X 3/4 SPLICE
14. 054-00002 VACUUM CANNISTER
15. 036-00504 VACUUM HARNESS
16. 036-00467 WIRE HARNESS
17. 034-00036 WATER VALVE



1.	087-00219	DOOR ASSEMBLY
2.	062-00605	CASE
3.	030-00046	VACUUM MOTOR
4.	042-00044	HEATER COIL
5.	062-00623	BUSHING
6.	041-00157	EVAPORATOR COIL
7.	034-00029	EXPANSION VALVE
8.	045-00521	INSULATION
9.	071-00680	BACK PANEL
10.	033-00003	THERMOSTAT
11.	035-00006	RESISTOR
12.	071-00143	RESISTOR SHIELD
13.	083-00222	CONTROL HEAD ASSY
14.	054-00002	VACUUM CANNISTER
15.	062-00057	RETURN AIR GRILLE
16.	085-00544	#6 HOSE ASSEMBLY
17.	054-00019	DRIER W/SWITCH
NS	082-00449	WATER VALVE KIT*
NS	051-00002	DRAIN HOSE*
NS	062-00130	'Y' HOSE ADAPTER*
NS	082-00476	HARDWARE PACKAGE*

*NS = NOT SHOWN

SPECIFIC CLIMATE SYSTEMS, INC.
1200 WEST RISINGER ROAD
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MASTER SERVICE MANUAL

KIT NO. 090-00461; EVAPORATOR ASSEMBLY 086-00347

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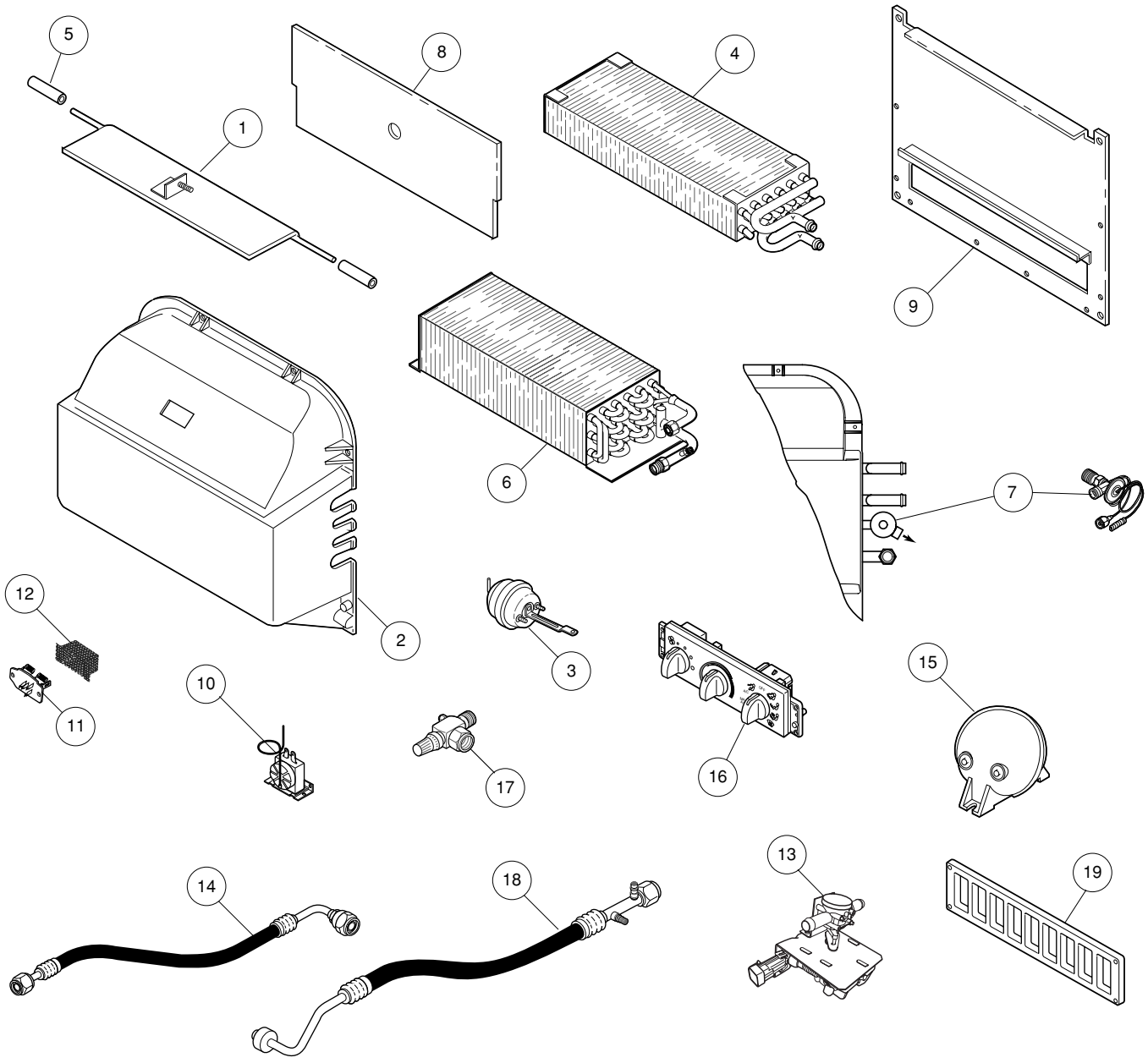

1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 RESISTOR SHIELD
13. 034-00131 WATER VALVE
14. 085-00466 #6 HOSE ASSEMBLY
15. 054-00002 VACUUM CANNISTER
16. 083-00256 CONTROL ASSEMBLY
17. 034-00049 SERVICE VALVE
18. 051-00357 #10 HOSE ASSEMBLY
19. 062-00057 RETURN AIR GRILLE

NS 051-00002 DRAIN HOSE*
NS 051-00010 5/32 ID VAC. HOSE*

*NS = NOT SHOWN

SPECIFIC CLIMATE SYSTEMS, INC.
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MASTER SERVICE MANUAL

KIT NO. 090-00445; EVAP. ASSY. W/HOSE 086-00348

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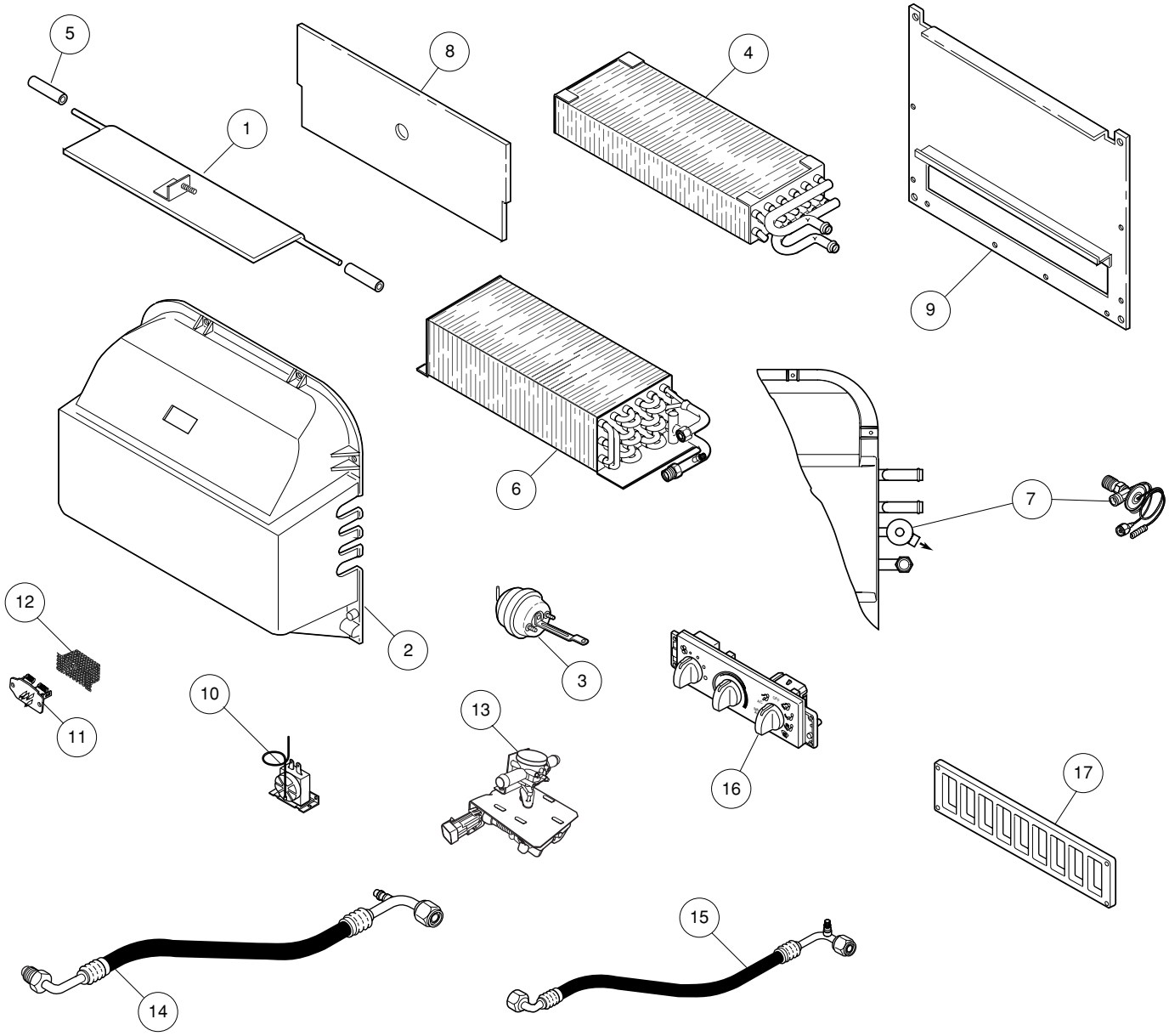
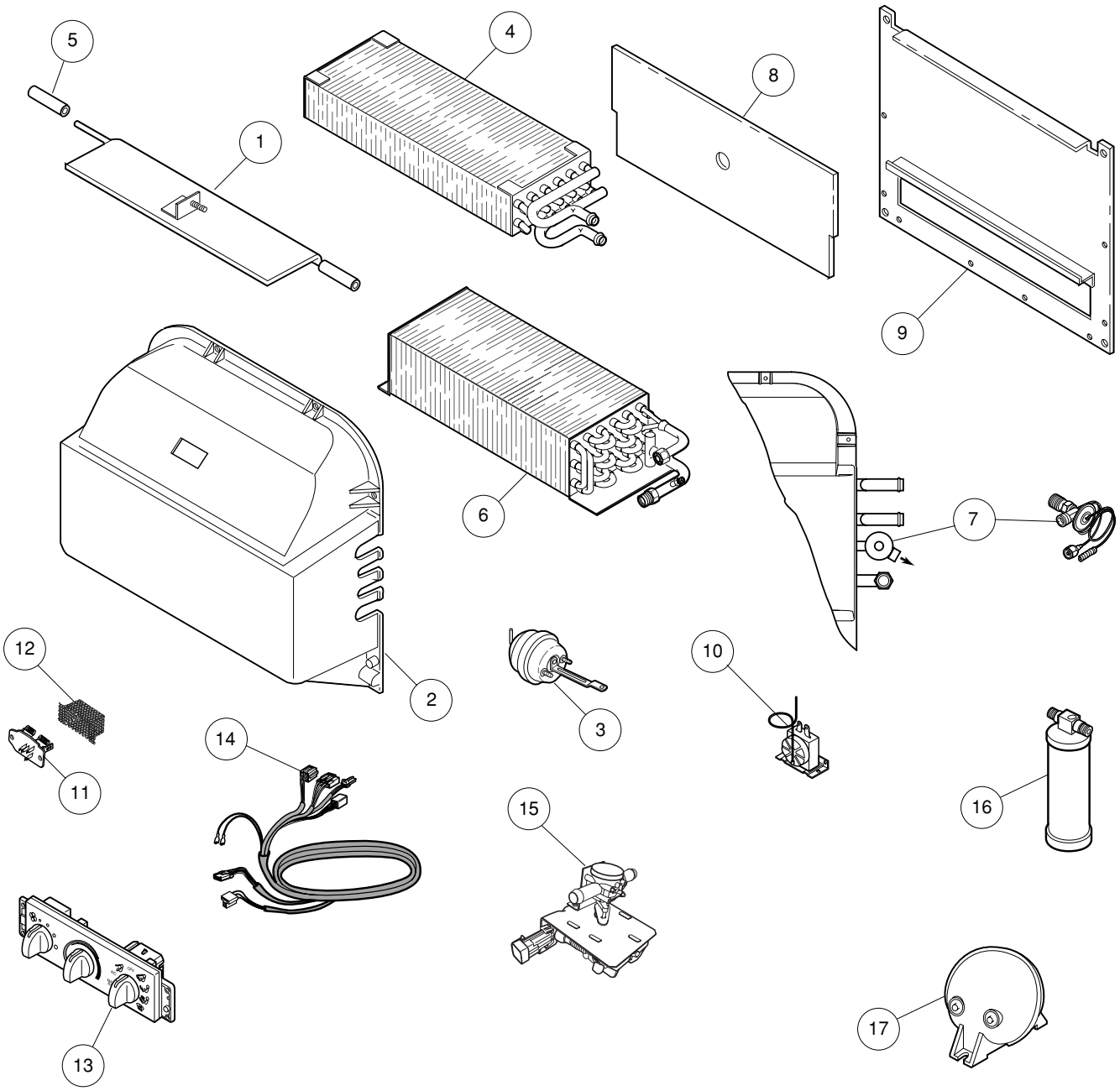


1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 RESISTOR SHIELD
13. 034-00131 WATER VALVE
14. 085-00452 #10 HOSE ASSEMBLY
15. 085-00451 #6 HOSE ASSEMBLY
16. 083-00256 CONTROL ASSEMBLY
17. 062-00057 RETURN AIR GRILLE

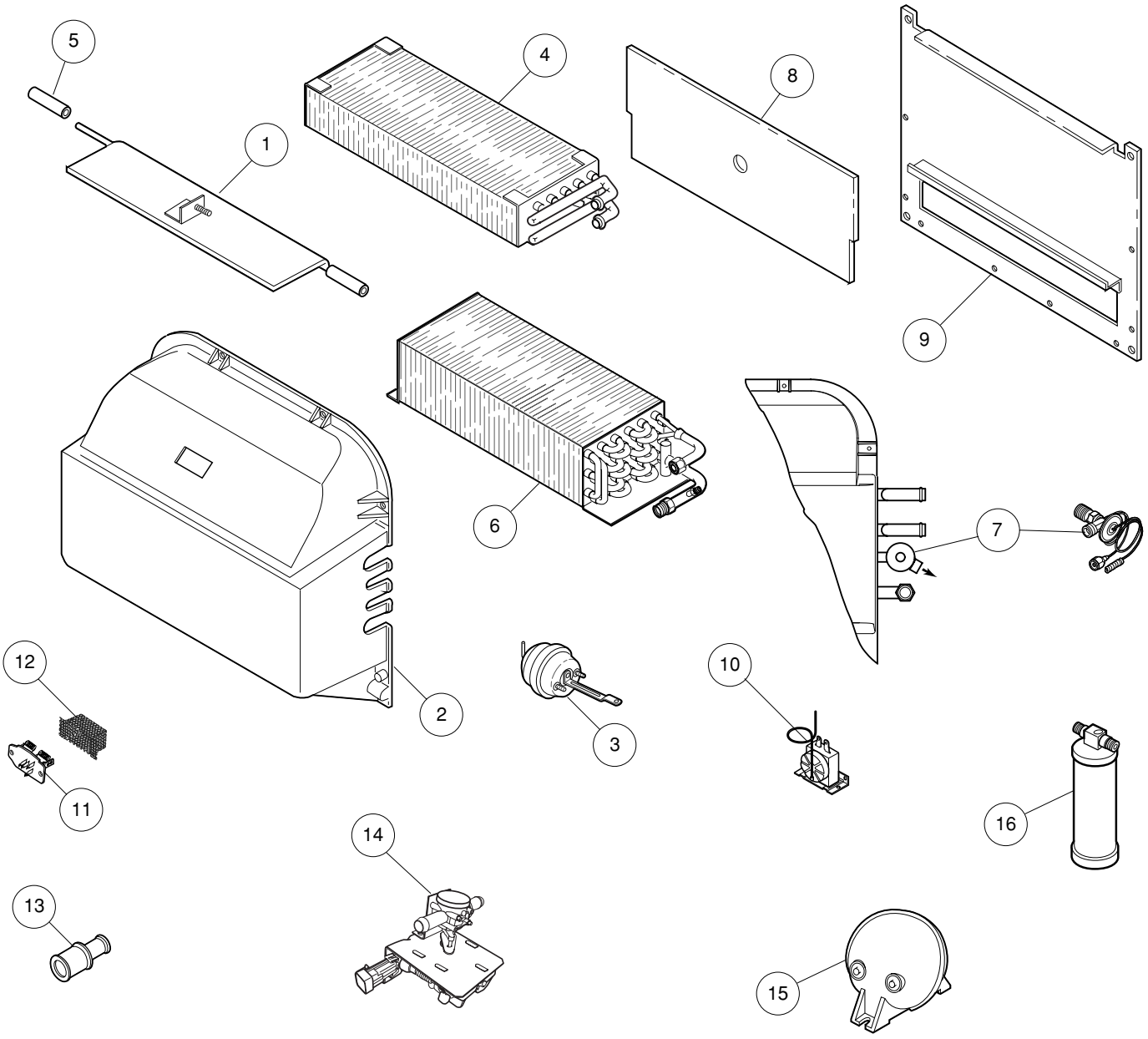
NS 082-00409 HARDWARE PACKAGE*

NS 051-00002 DRAIN HOSE*

*NS = NOT SHOWN



1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 RESISTOR SHIELD
13. 083-00272 CONTROL ASSEMBLY
14. 036-00625 WIRE HARNESS
15. 034-00131 WATER VALVE
16. 054-00001 RECEIVER DRIER
17. 054-00002 VACUUM CANNISTER



1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00052 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 RESISTOR SHIELD
13. 050-00091 5/8 X 3/4 SPLICE
14. 034-00131 WATER VALVE
15. 054-00002 VACUUM CANNISTER
16. 054-00001 RECEIVER DRIER

SPECIFIC CLIMATE SYSTEMS, INC.
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KIT NO. 090-00450; EVAPORATOR ASSEMBLY 086-00359

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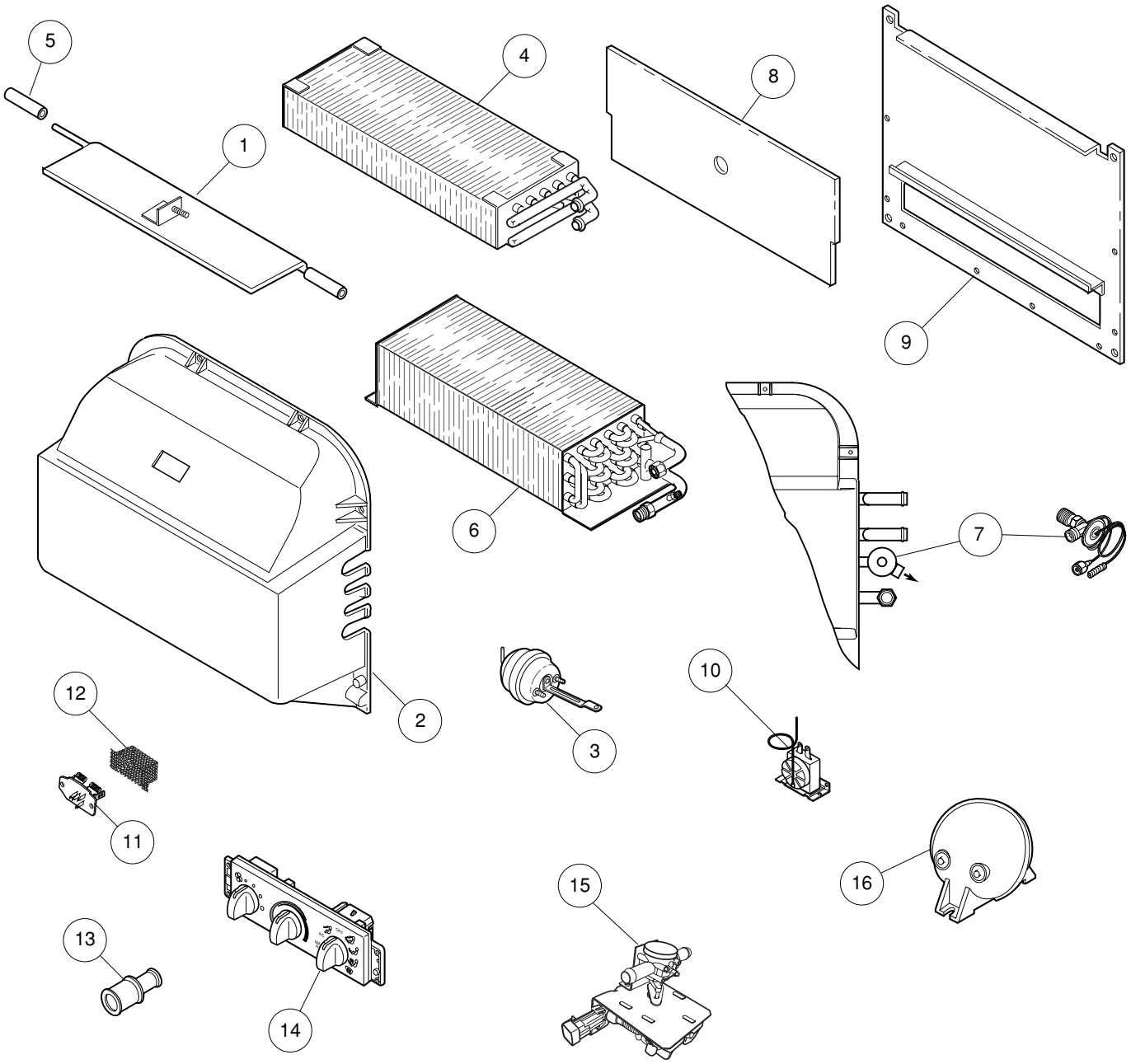
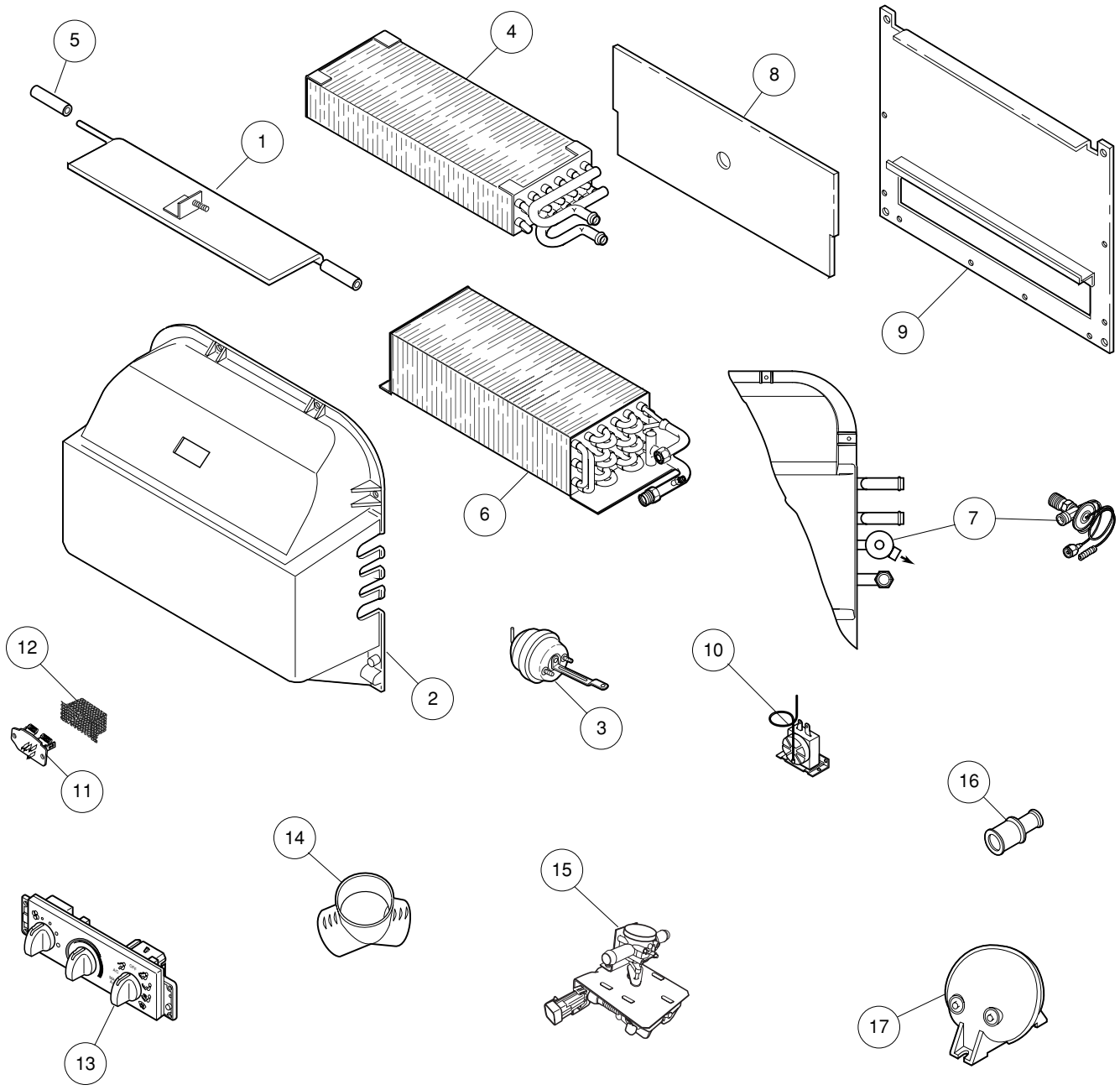


1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00052 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 RESISTOR SHIELD
13. 050-00091 5/8 X 3/4 SPLICE
14. 083-00256 CONTROL ASSEMBLY
15. 034-00131 WATER VALVE
16. 054-00002 VACUUM CANNISTER



1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 RESISTOR SHIELD
13. 083-00256 CONTROL ASSEMBLY
14. 062-00130 'Y' HOSE ADAPTER
15. 034-00131 WATER VALVE
16. 050-00091 5/8 X 3/4 SPLICE
17. 054-00002 VACUUM CANNISTER

SPECIFIC CLIMATE SYSTEMS, INC.
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TEL. 817-293-5313

MASTER SERVICE MANUAL

KIT NO. 090-00447; EVAPORATOR ASSEMBLY 086-00347

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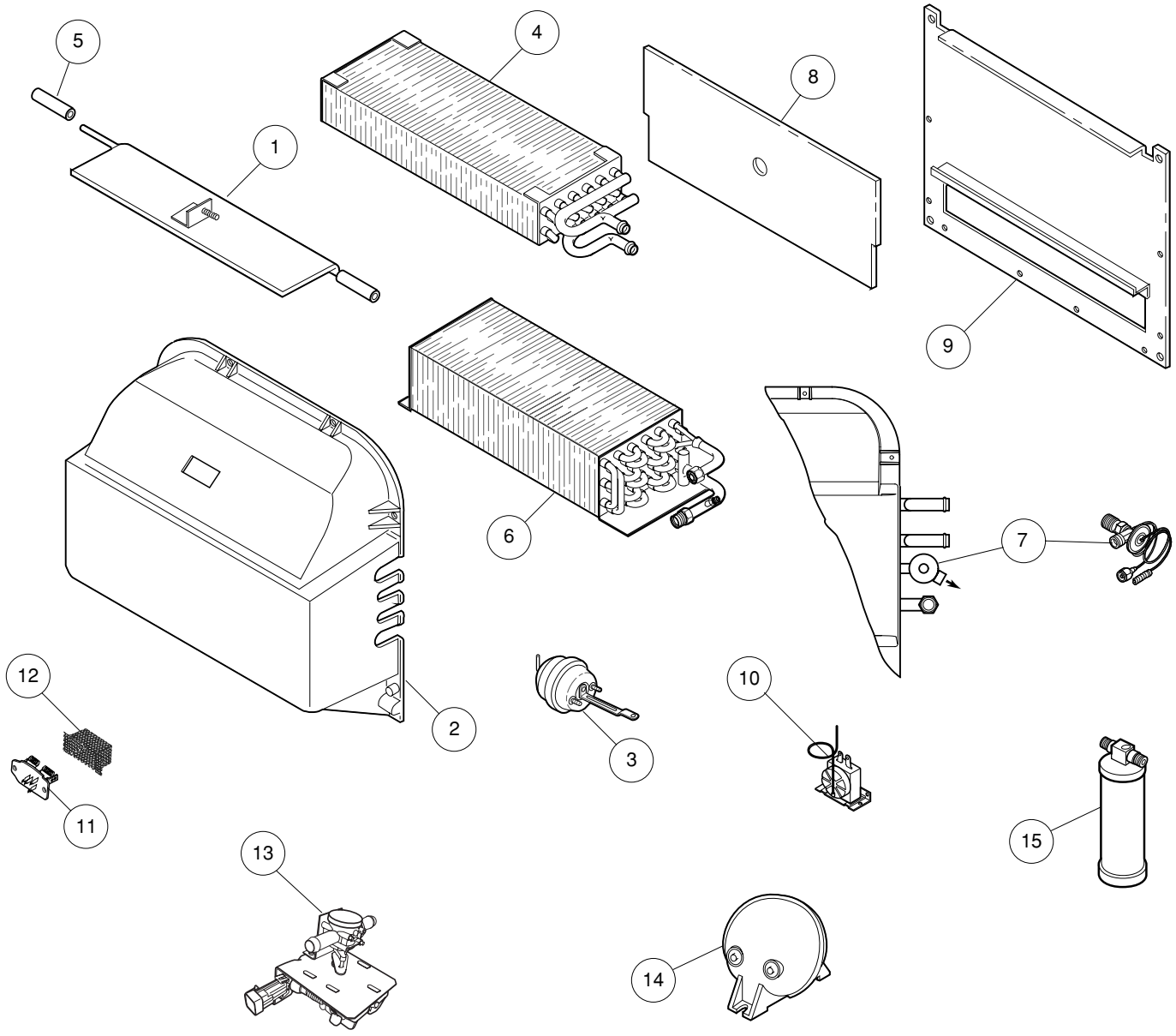
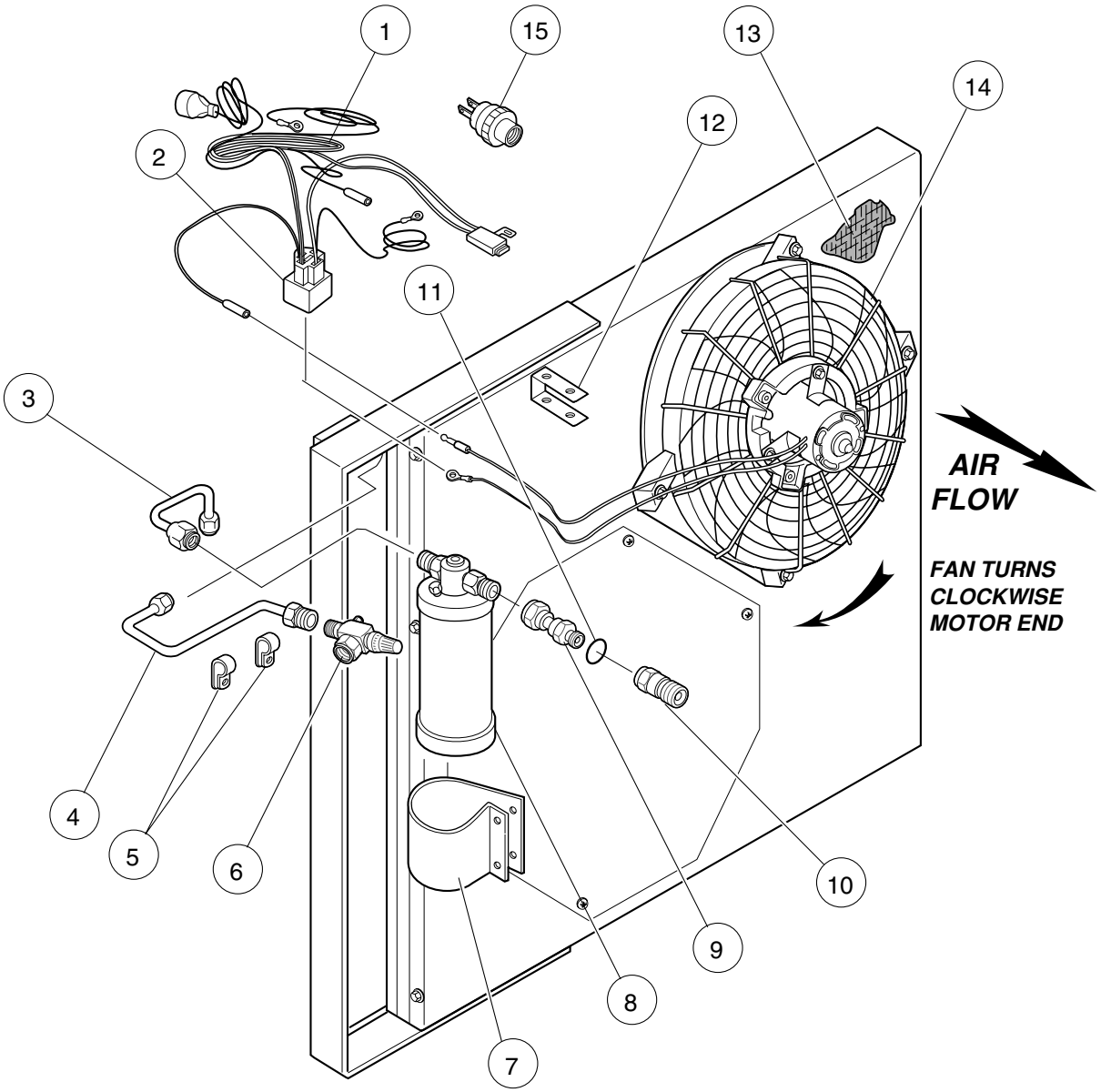
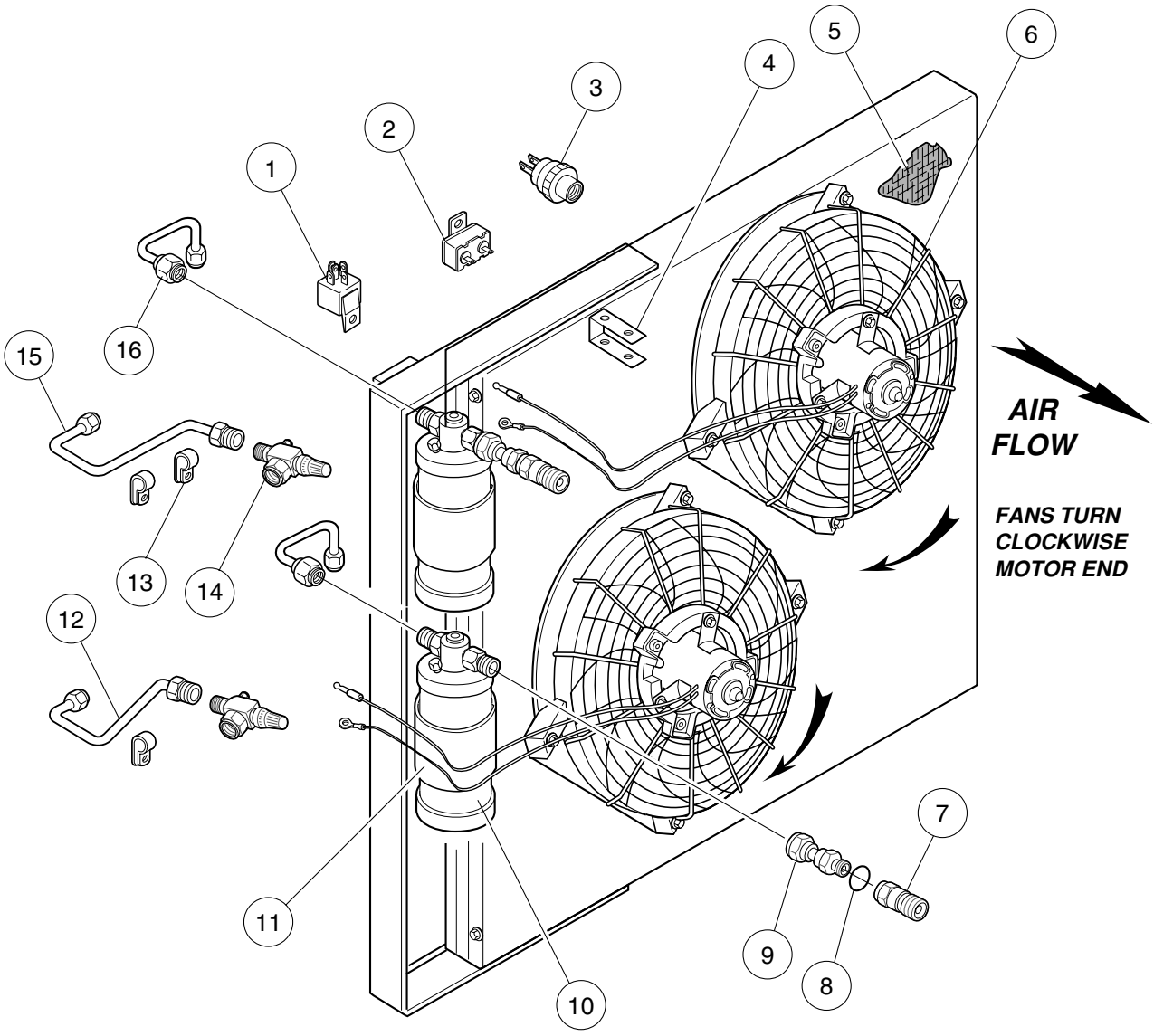


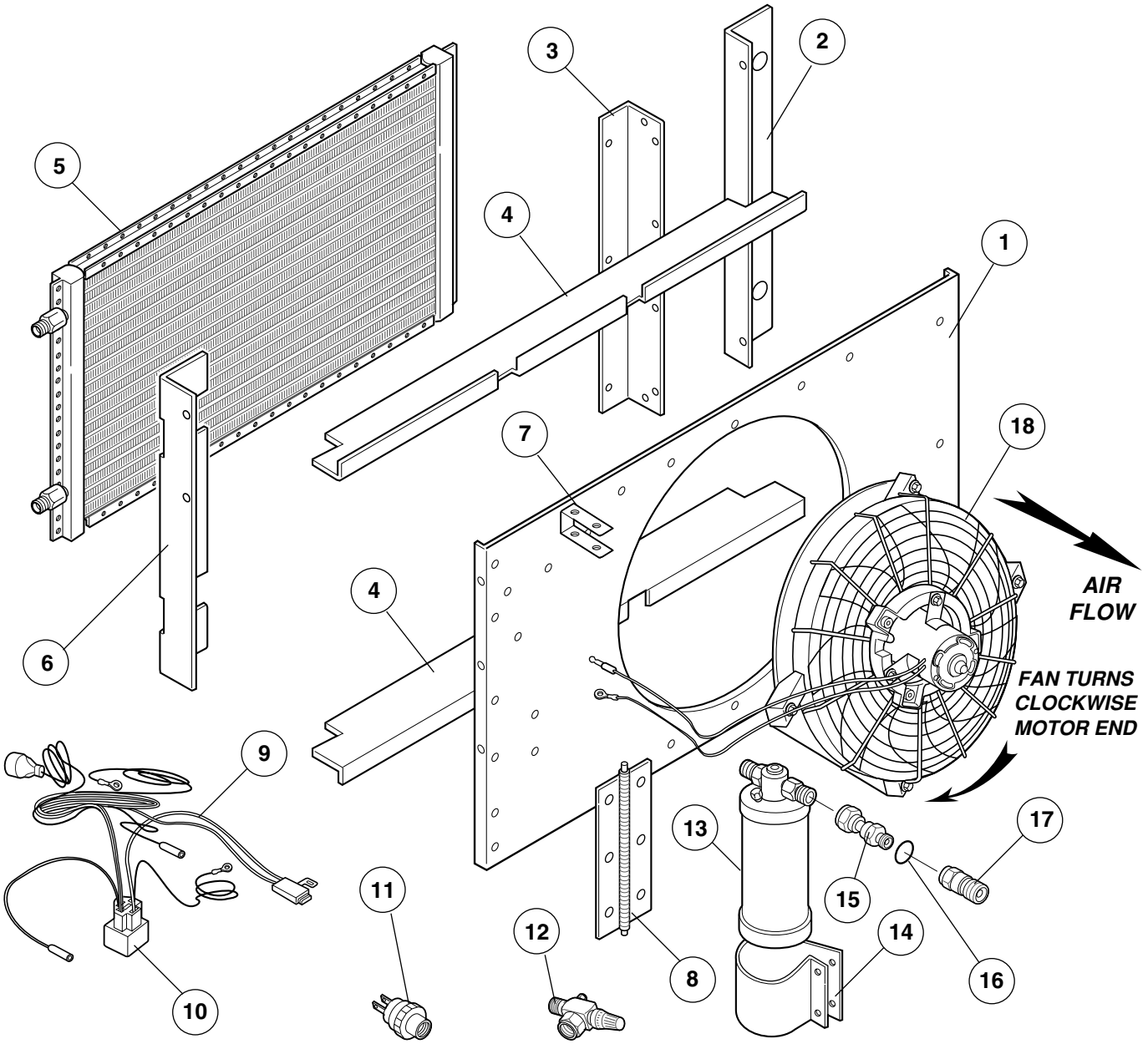
1. 087-00219 DOOR ASSEMBLY
2. 062-00605 CASE
3. 030-00046 VACUUM MOTOR
4. 042-00044 HEATER COIL
5. 062-00623 BUSHING
6. 041-00157 EVAPORATOR COIL
7. 034-00029 EXPANSION VALVE
8. 045-00521 INSULATION
9. 071-00680 BACK PANEL
10. 033-00003 THERMOSTAT
11. 035-00006 RESISTOR
12. 071-00143 RESISTOR SHIELD
13. 034-00131 WATER VALVE
14. 054-00002 VACUUM CANNISTER
15. 054-00001 RECEIVER DRIER



1. 036-00164 WIRE HARNESS
2. 031-00001 RELAY
3. 052-00045 LIQUID TUBE
4. 052-00047 DISCHARGE TUBE
5. 022-00064 HOSE CLAMP
6. 050-00060 SERVICE VALVE
7. 070-00333 DRIER CLAMP
8. 054-00022 RECEIVER DRIER
9. 050-00191 ADAPTER, Q.C.
10. 050-00034 Q.C. COUPLING, MALE
11. 045-00392 O-RING
12. 070-00309 BRACKET
13. 040-00041 CONDENSER COIL
14. 086-00083 FAN ASSEMBLY
15. 032-00067 BINARY SWITCH



1. 031-00001 RELAY
2. 032-00062 30A CIRCUIT BREAKER
3. 032-00067 BINARY SWITCH
4. 070-00309 BRACKET
5. 040-00056 CONDENSER COIL
6. 086-00083 FAN ASSEMBLY
7. 050-00034 Q.C. COUPLING, MALE
8. 045-00125 O-RING, SAE 012
9. 050-00191 ADAPTER, Q.C.
10. 054-00022 RECEIVER DRIER
11. 070-00333 DRIER CLAMP
12. 052-00070 DISCHARGE TUBE
13. 022-00064 HOSE CLAMP
14. 050-00060 SERVICE VALVE
15. 052-00119 DISCHARGE TUBE
16. 052-00045 LIQUID TUBE

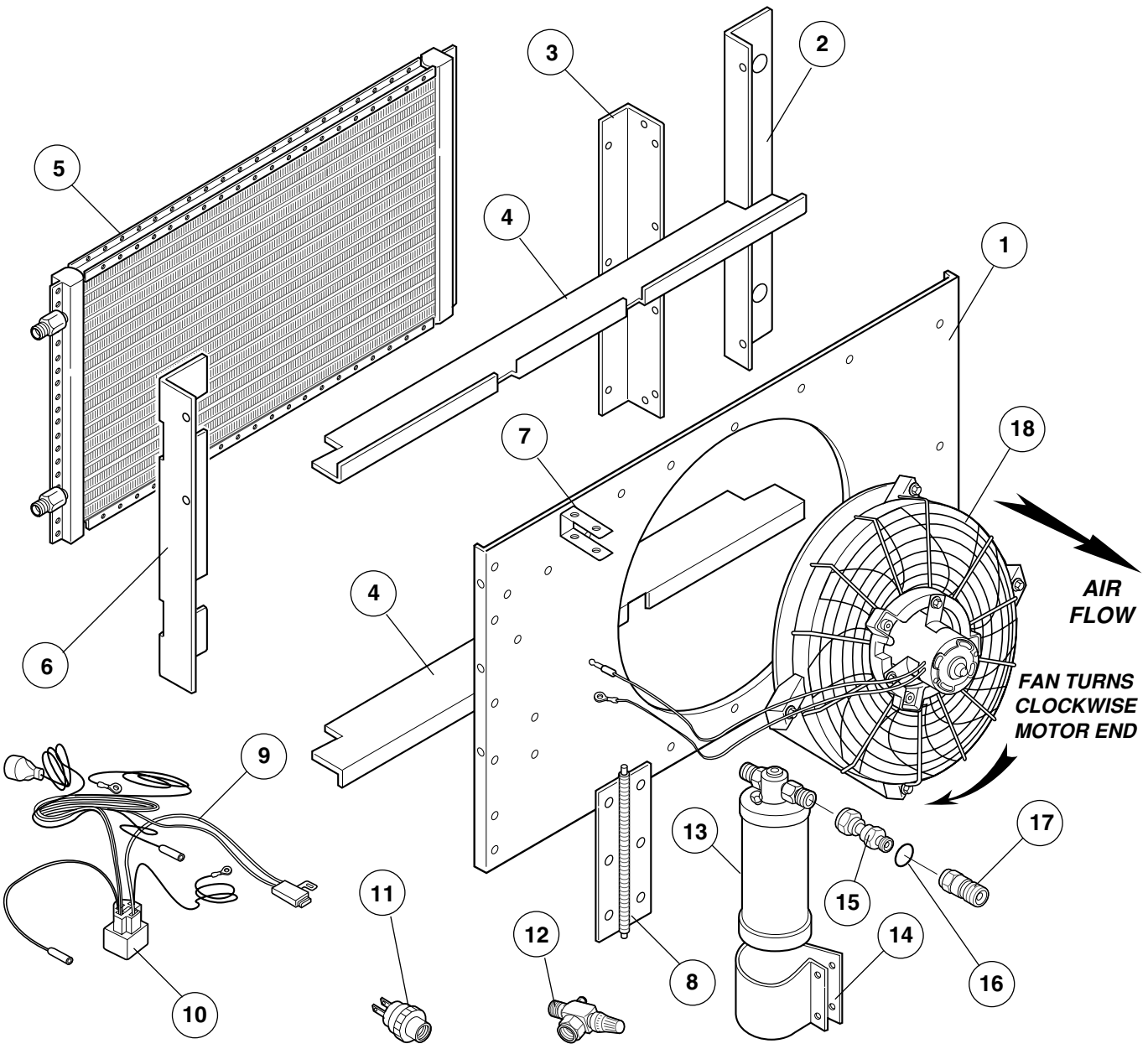


1. 071-00343 HOUSING
2. 070-00321 BRACKET
3. 071-00341 END PANEL
4. 071-00337 PANEL
5. 040-00056 CONDENSER COIL
6. 071-00558 END PANEL
7. 070-00309 BRACKET
8. 070-00310 HINGE
9. 036-00164 WIRE HARNESS
10. 031-00001 RELAY
11. 032-00067 BINARY SWITCH
12. 050-00060 SERVICE VALVE
13. 054-00022 RECEIVER DRIER
14. 070-00333 DRIER CLAMP
15. 050-00191 ADAPTER, Q.C.
16. 045-00125 O-RING, SAE 012
17. 050-00034 Q.C. COUPLING, MALE
18. 086-00083 FAN ASSEMBLY

NS 052-00116 LIQUID TUBE*
NS 052-00070 DISCHARGE TUBE*

*NS = NOT SHOWN NOTE: FOR UNITS PRODUCED AFTER 12/15/95

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 091-00042; CONDENSER ASSEMBLY 084-00104**	PAGE **B-21a** 10/28/97

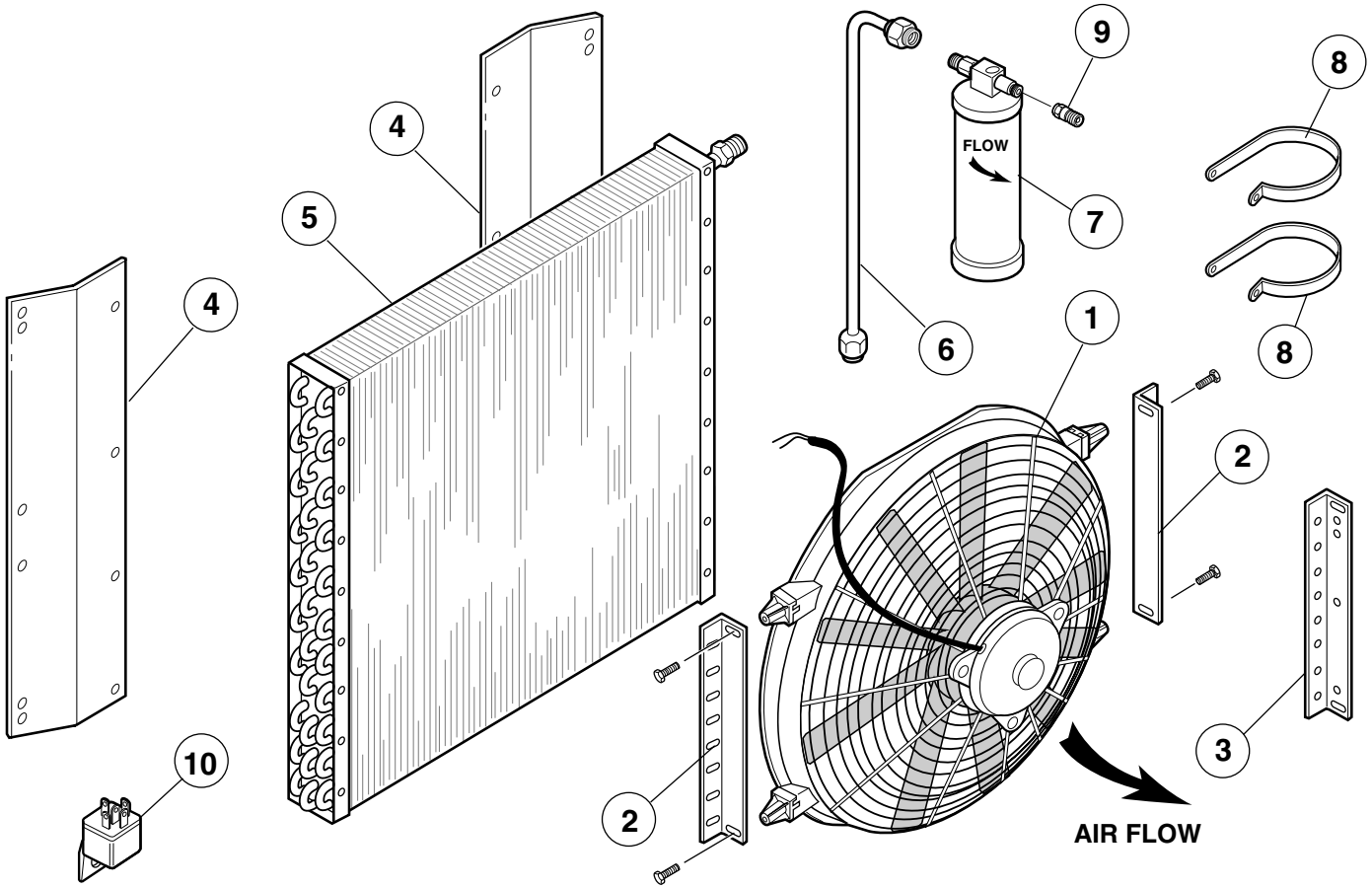


1. 071-00343 HOUSING
2. 070-00321 BRACKET
3. 071-00341 END PANEL
4. 071-00337 PANEL
5. 040-00041 CONDENSER COIL
6. 071-00340 END PANEL
7. 070-00309 BRACKET
8. 070-00310 HINGE
9. 036-00164 WIRE HARNESS
10. 031-00001 RELAY
11. 032-00067 BINARY SWITCH
12. 050-00060 SERVICE VALVE
13. 054-00022 RECEIVER DRIER
14. 070-00333 DRIER CLAMP
15. 050-00191 ADAPTER, Q.C.
16. 045-00125 O-RING, SAE 012
17. 050-00034 Q.C. COUPLING, MALE
18. 086-00083 FAN ASSEMBLY

NS 052-00046 LIQUID TUBE*
NS 052-00047 DISCHARGE TUBE*

*NS = NOT SHOWN NOTE: FOR UNITS PRODUCED BEFORE 12/15/95

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 091-00042; CONDENSER ASSEMBLY 084-00104**	PAGE **B-21b** 10/28/97

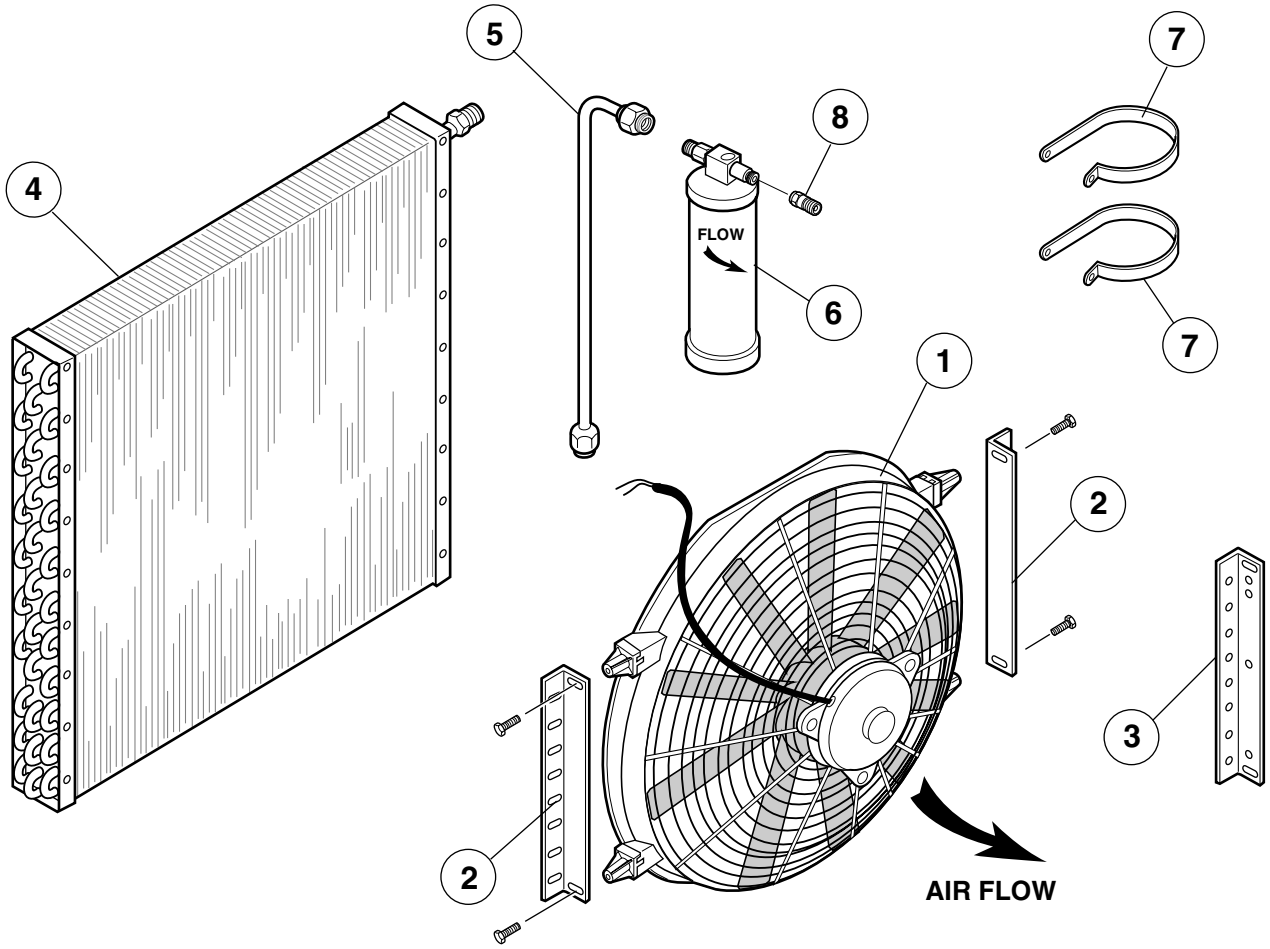


1. 086-00067 FAN ASSEMBLY
2. 070-00237 BRACKET, FAN MTG.
3. 070-00169 BRACKET, DRIER MTG.
4. 070-00193 BRACKET
5. 040-00025 CONDENSER COIL
6. 052-00038 LIQUID TUBE
7. 054-00011 RECEIVER DRIER
8. 022-00056 DRIER CLAMP
9. 050-00034 Q.C. COUPLING, MALE
10. 031-00001 RELAY

NS 036-00081 WIRE HARNESS*
NS 035-00009 FUSE, 20 AMP*
NS 051-00092 #8 HOSE ASSEMBLY*

*NS = NOT SHOWN

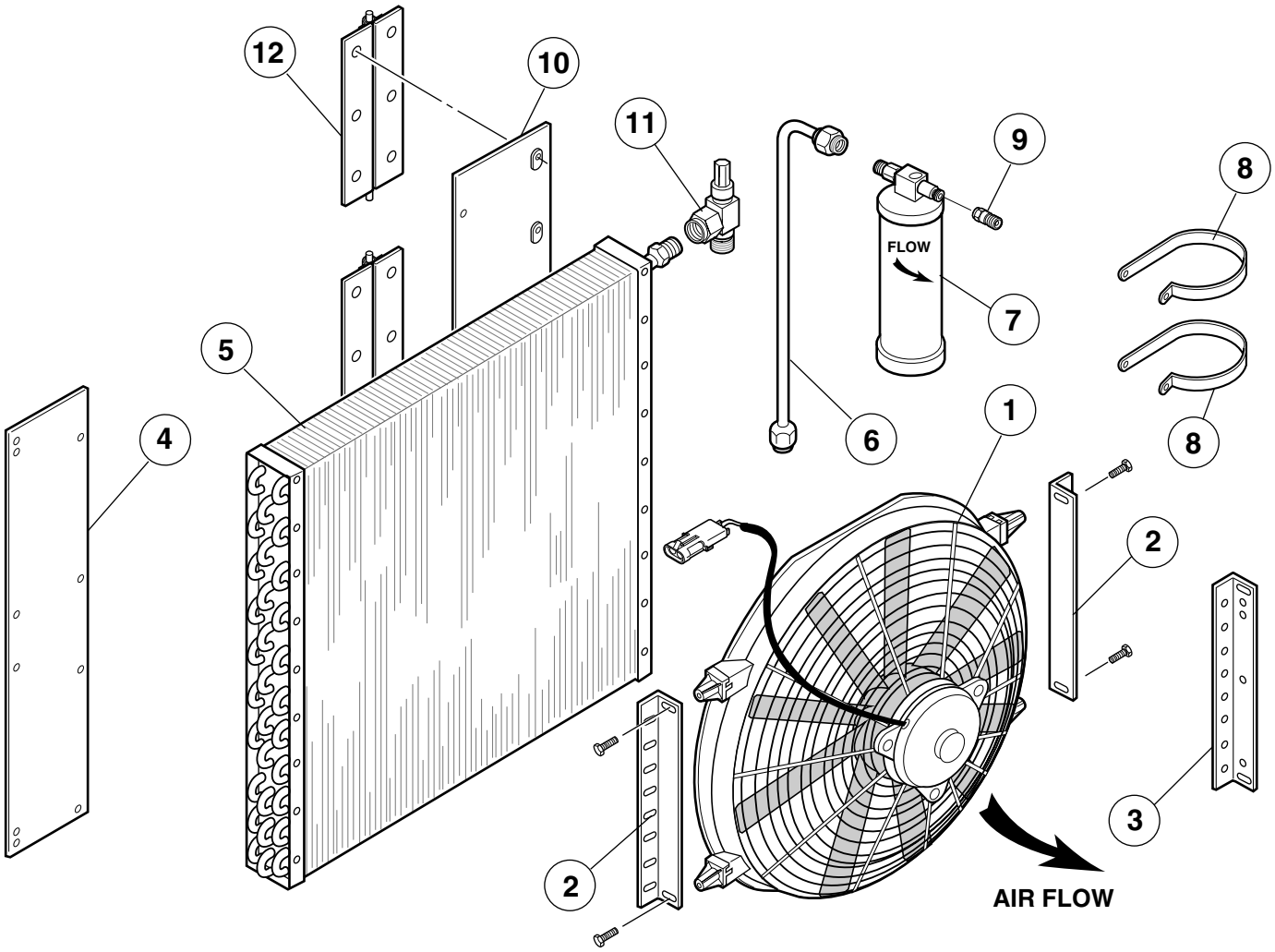
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 084-00046; CONDENSER ASSEMBLY 084-00046**	PAGE **B-31** 9/6/97



1. 086-00067 FAN ASSEMBLY
2. 070-00237 BRACKET, FAN MTG.
3. 070-00169 BRACKET, DRIER MTG.
4. 040-00025 CONDENSER COIL
5. 052-00039 LIQUID TUBE
6. 054-00011 RECEIVER DRIER
7. 022-00056 DRIER CLAMP
8. 050-00034 Q.C. COUPLING, MALE

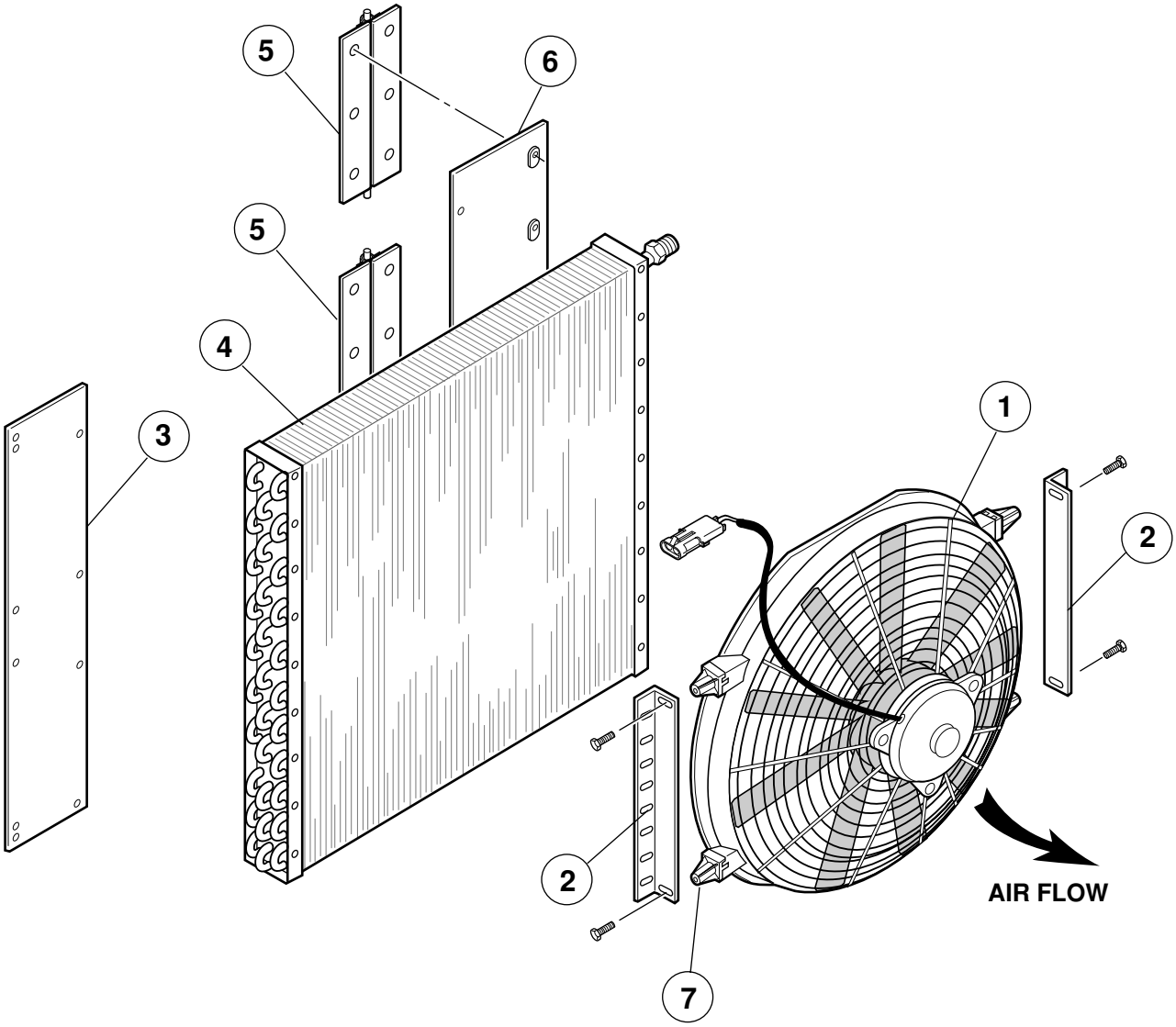
NS 070-00170 MOUNTING BRACKET*
NS 070-00171 MOUNTING BRACKET*
NS 051-00106 #8 HOSE ASSEMBLY*

*NS = NOT SHOWN

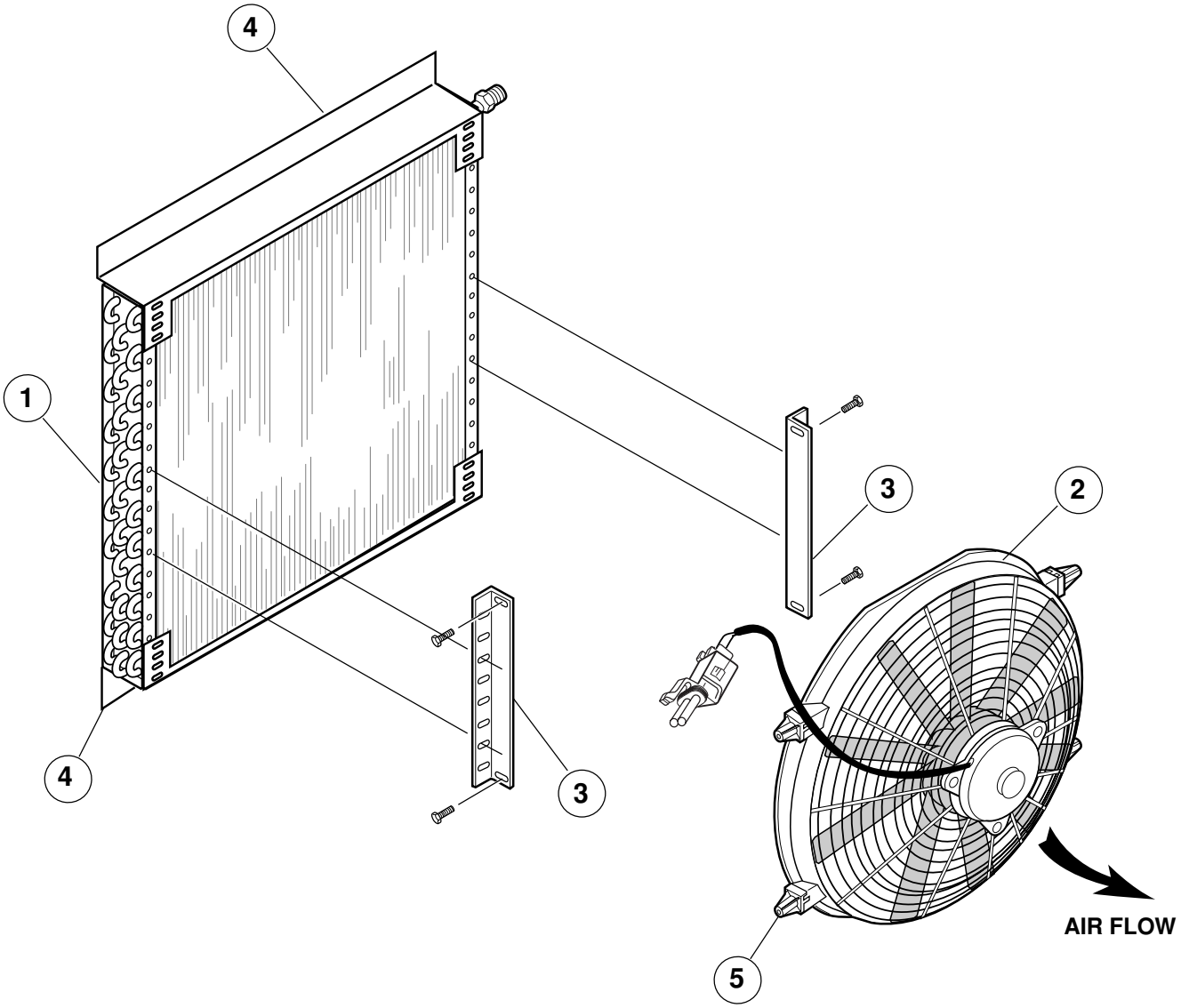


1. 086-00319 FAN ASSEMBLY
2. 070-00237 BRACKET, FAN MTG.
3. 070-00169 BRACKET, DRIER MTG.
4. 070-00732 BRACKET
5. 040-00025 CONDENSER COIL
6. 052-00038 LIQUID TUBE
7. 054-00011 RECEIVER DRIER
8. 022-00056 DRIER CLAMP
9. 050-00034 Q.C. COUPLING, MALE
10. 070-00698 BRACKET
11. 050-00134 SERVICE VALVE
12. 070-00310 HINGE

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 091-00111; CONDENSER ASSEMBLY 084-00218**	PAGE **B-34** 2/15/99



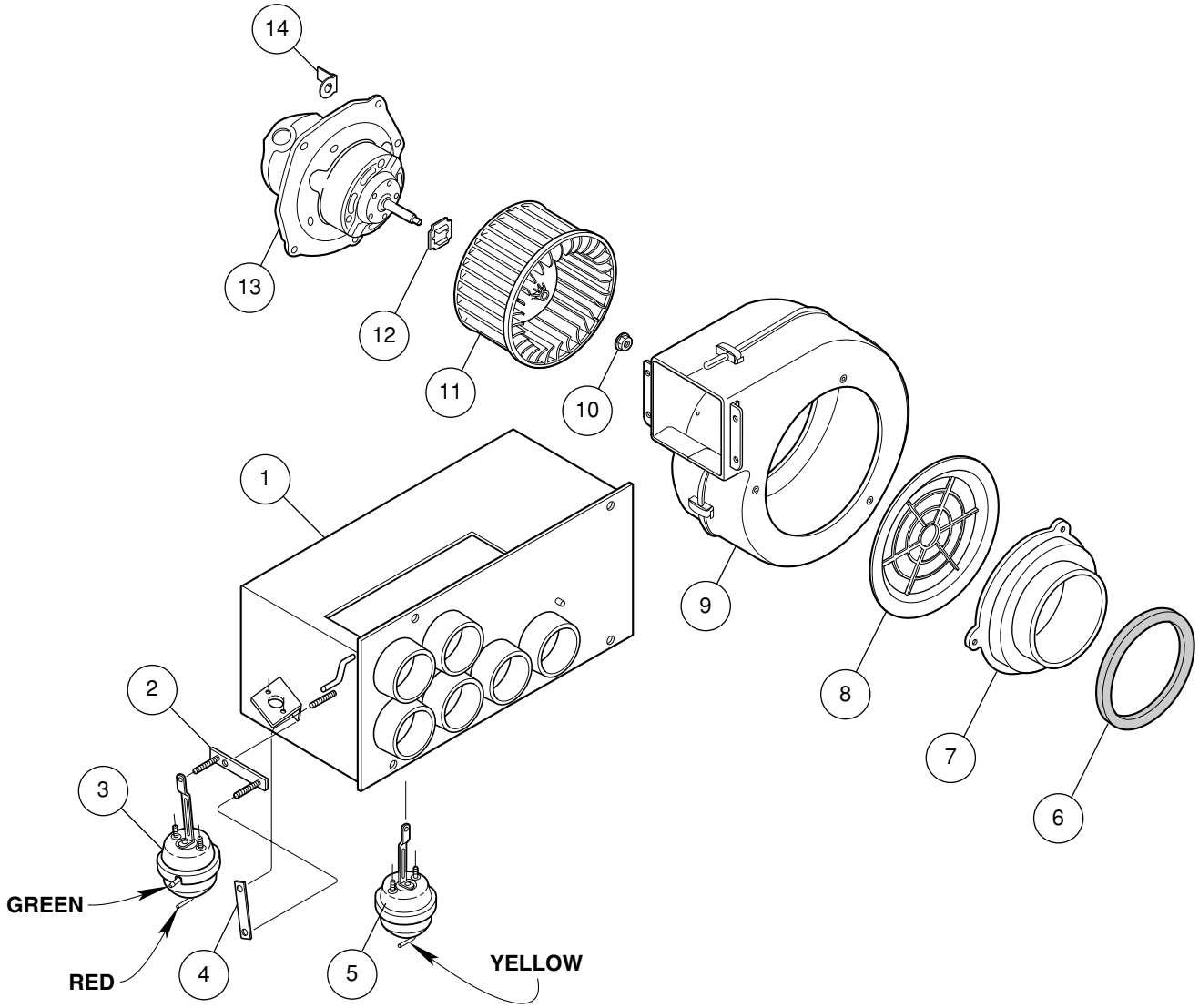
1. 086-00319 FAN ASSEMBLY
2. 070-00237 BRACKET, FAN MTG.
3. 070-00732 BRACKET
4. 040-00025 CONDENSER COIL
5. 070-00310 HINGE
6. 070-00698 BRACKET
7. 062-00224 MOUNTING FOOT



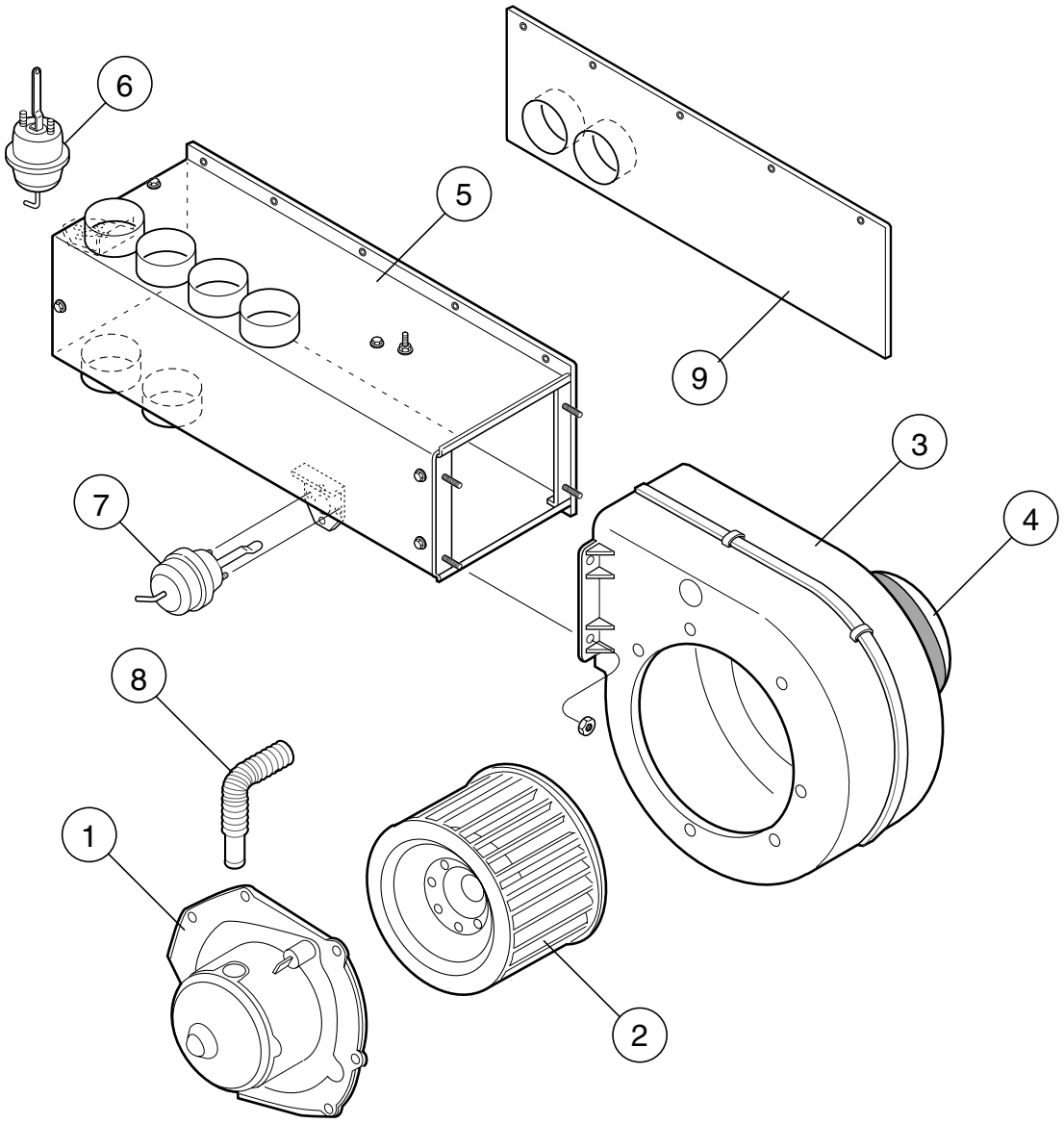
1.	040-00025	CONDENSER COIL	4.	070-00798	BRACKET, MOUNTING
2.	086-00412	FAN ASSEMBLY	5.	062-00224	MOUNTING FOOT
3.	070-00237	BRACKET, FAN MTG.	NS	085-00530	#8 HOSE ASSEMBLY*
			NS	082-00477	SACK KIT*

*NS = NOT SHOWN

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 091-00138; CONDENSER ASSEMBLY 084-00259**	PAGE **B-46** 12/7/01

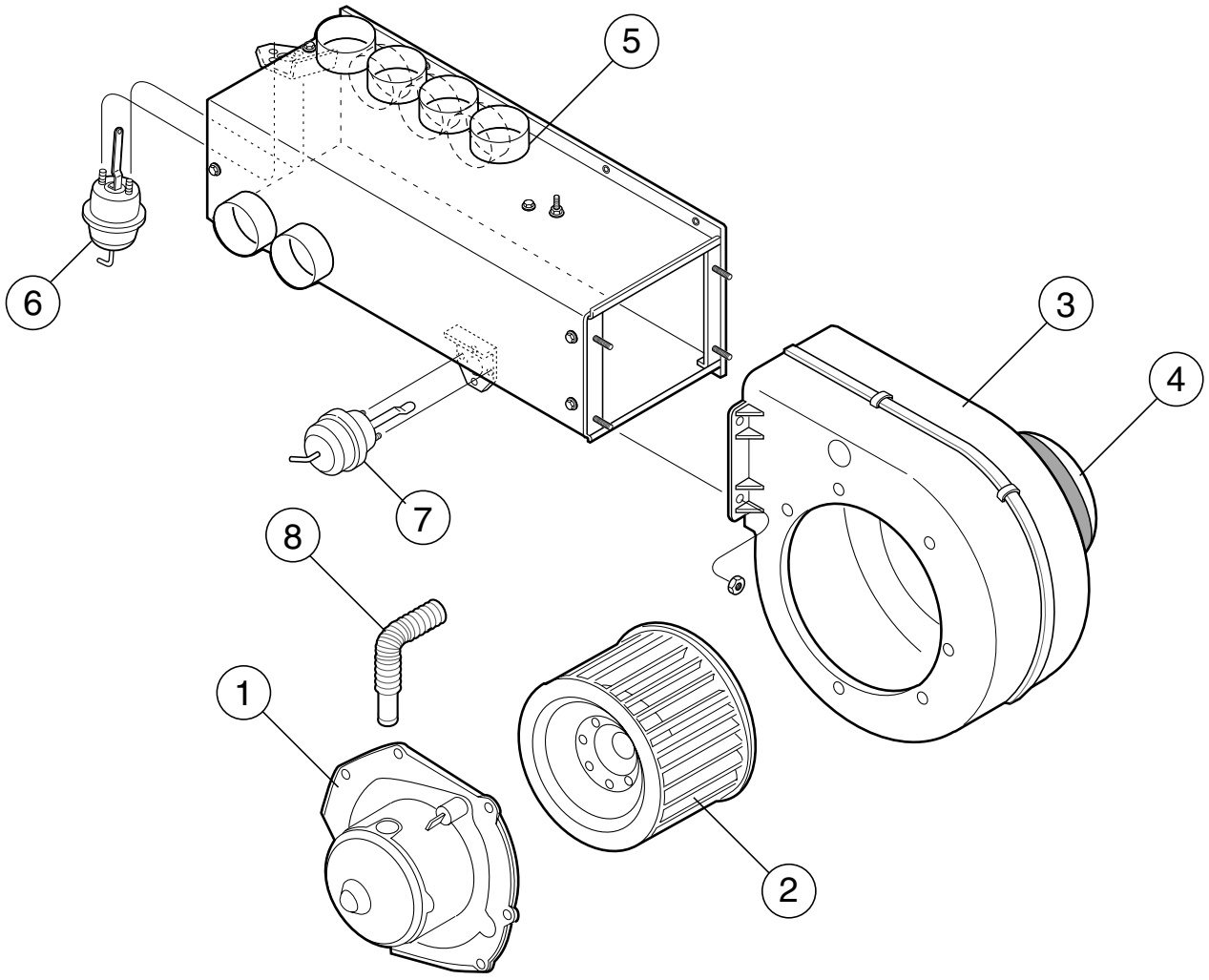


1. 086-00133 PLENUM HOUSING
2. 070-00337 PIVOT LINKAGE
3. 030-00047 VACUUM MOTOR
4. 070-00336 ARM
5. 030-00048 VACUUM MOTOR
6. 045-00241 GASKET
7. 060-00134 INLET GUIDE
8. 062-00112 VENTURI
9. 062-00113 BLOWER HOUSING
10. 023-00047 NUT
11. 062-00234 BLOWER WHEEL
12. 022-00074 SUPPORT CLIP
13. 030-00001 BLOWER MOTOR
14. 037-00028 GROUNDING LUG



1. 030-00004 BLOWER MOTOR
2. 062-00010 BLOWER WHEEL
3. 062-00113 BLOWER HOUSING
4. 060-00135 INLET GUIDE
5. 071-00195 PLENUM HOUSING
6. 030-00025 VACUUM MOTOR
7. 030-00042 VACUUM MOTOR
8. 051-00034 VENT HOSE
9. 071-00196 BACK PANEL

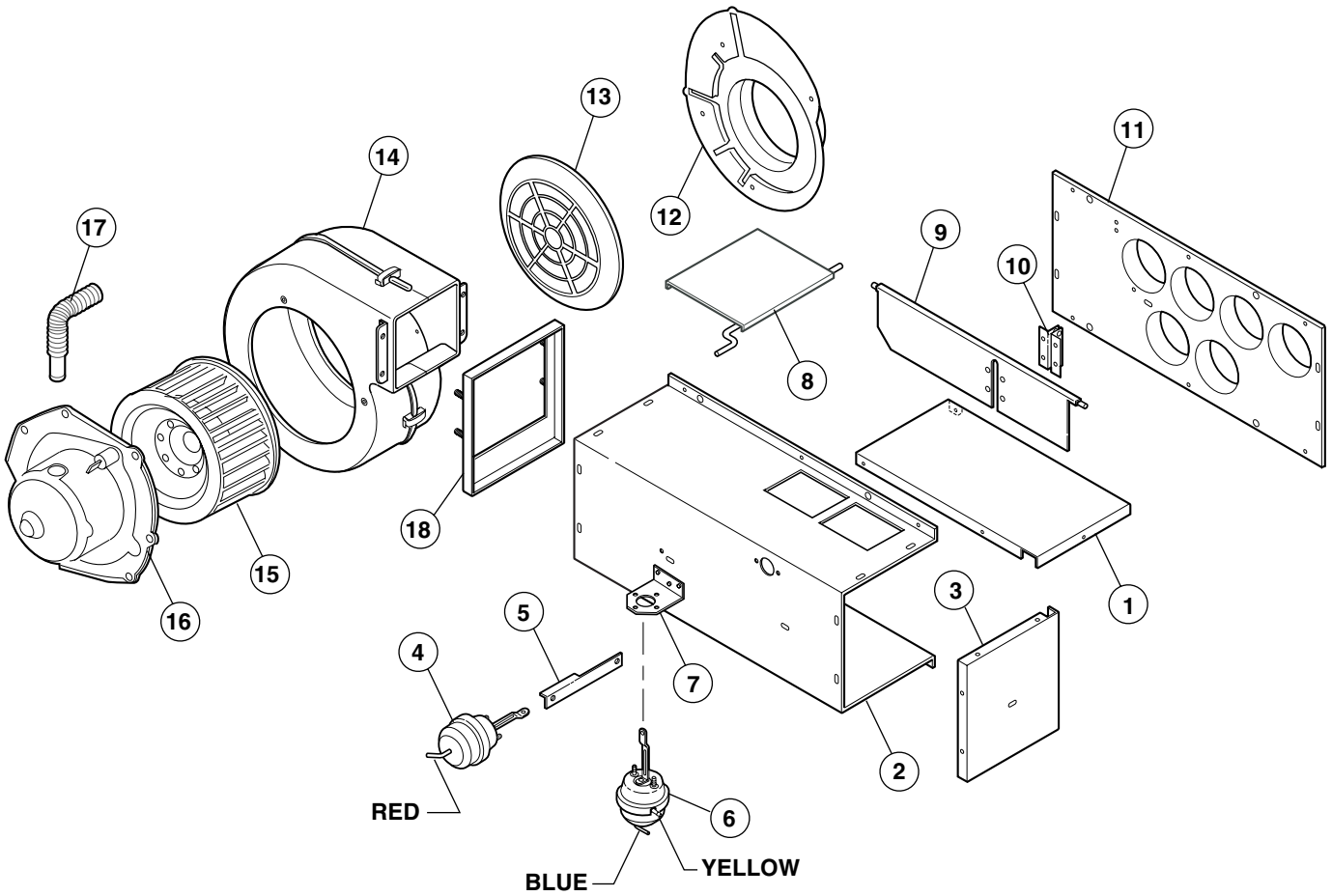
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 087-00080; PLENUM ASSEMBLY 087-00080**	PAGE **C-21** 8/20/97



1. 030-00004 BLOWER MOTOR
2. 062-00010 BLOWER WHEEL
3. 062-00113 BLOWER HOUSING
4. 060-00134 INLET GUIDE
5. 071-00260 PLENUM HOUSING
6. 030-00025 VACUUM MOTOR
7. 030-00029 VACUUM MOTOR
8. 051-00034 VENT HOSE

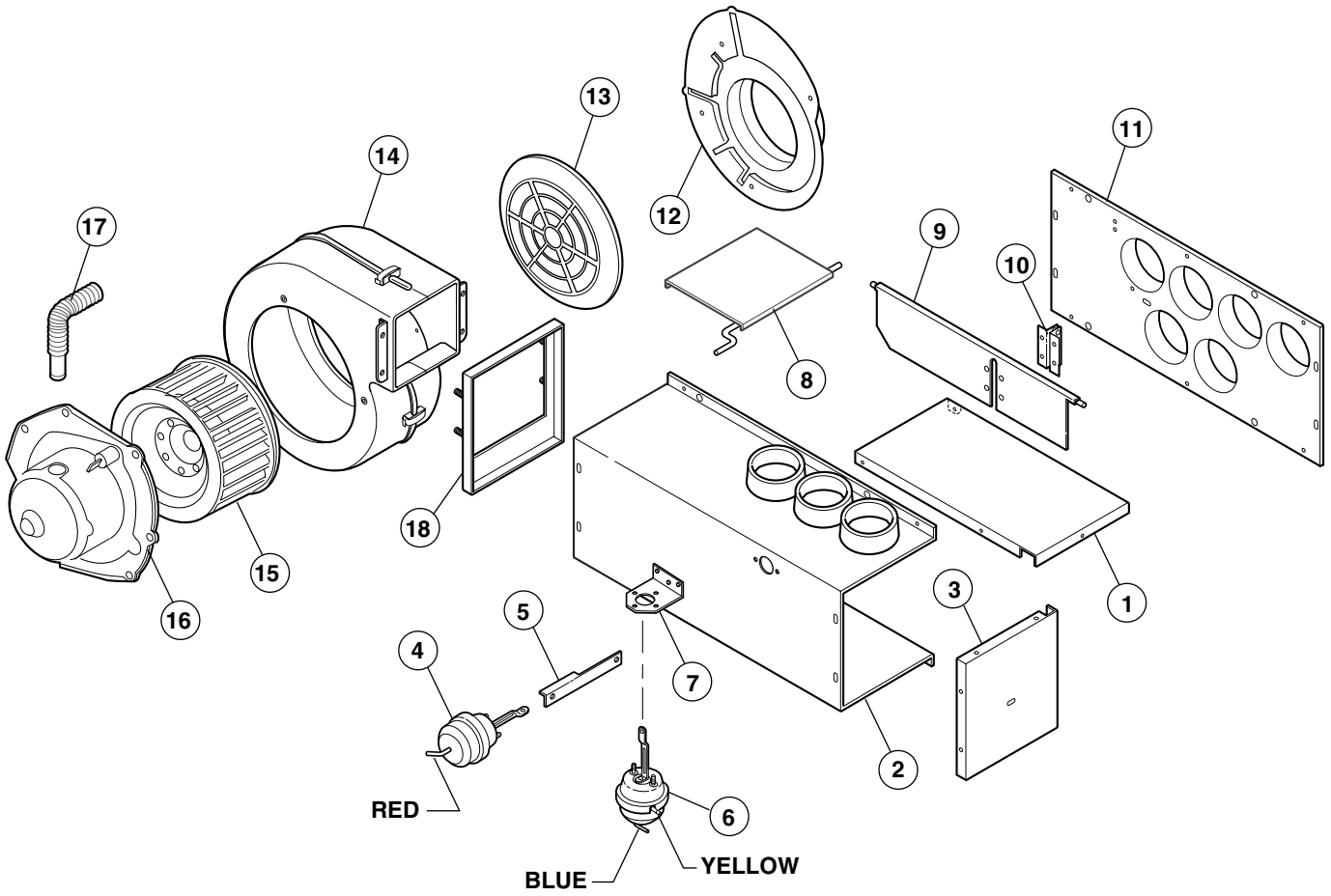
NS 071-00259 BACK PANEL*
NS 062-00112 VENTURI*

*NS = NOT SHOWN

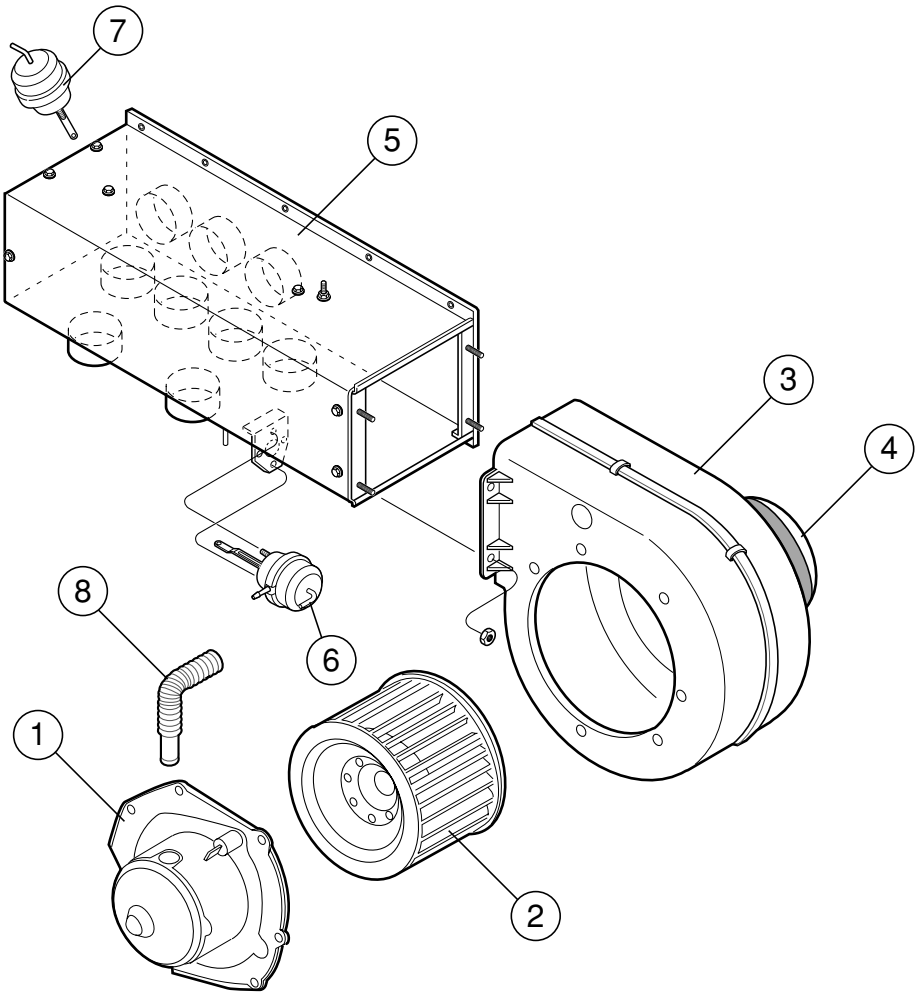


1. 071-00563 DIVIDER
2. 071-00602 WRAPPER
3. 071-00603 CAP
4. 030-00025 VACUUM MOTOR
5. 070-00661 EXTENSION BRACKET
6. 030-00029 VACUUM MOTOR
7. 070-00234 VAC. MOTOR BRACKET
8. 071-00562 DOOR
9. 071-00614 DOOR
10. 070-00662 BRACKET
11. 071-00561 BACK PANEL
12. 060-00439 INLET GUIDE
13. 062-00112 VENTURI
14. 062-00113 BLOWER HOUSING
15. 062-00002 BLOWER WHEEL
16. 030-00001 BLOWER MOTOR
17. 051-00034 VENT HOSE
18. 070-00613 BRACKET

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 093-00462; PLENUM ASSEMBLY 087-00139**	PAGE **C-24** 9/17/97



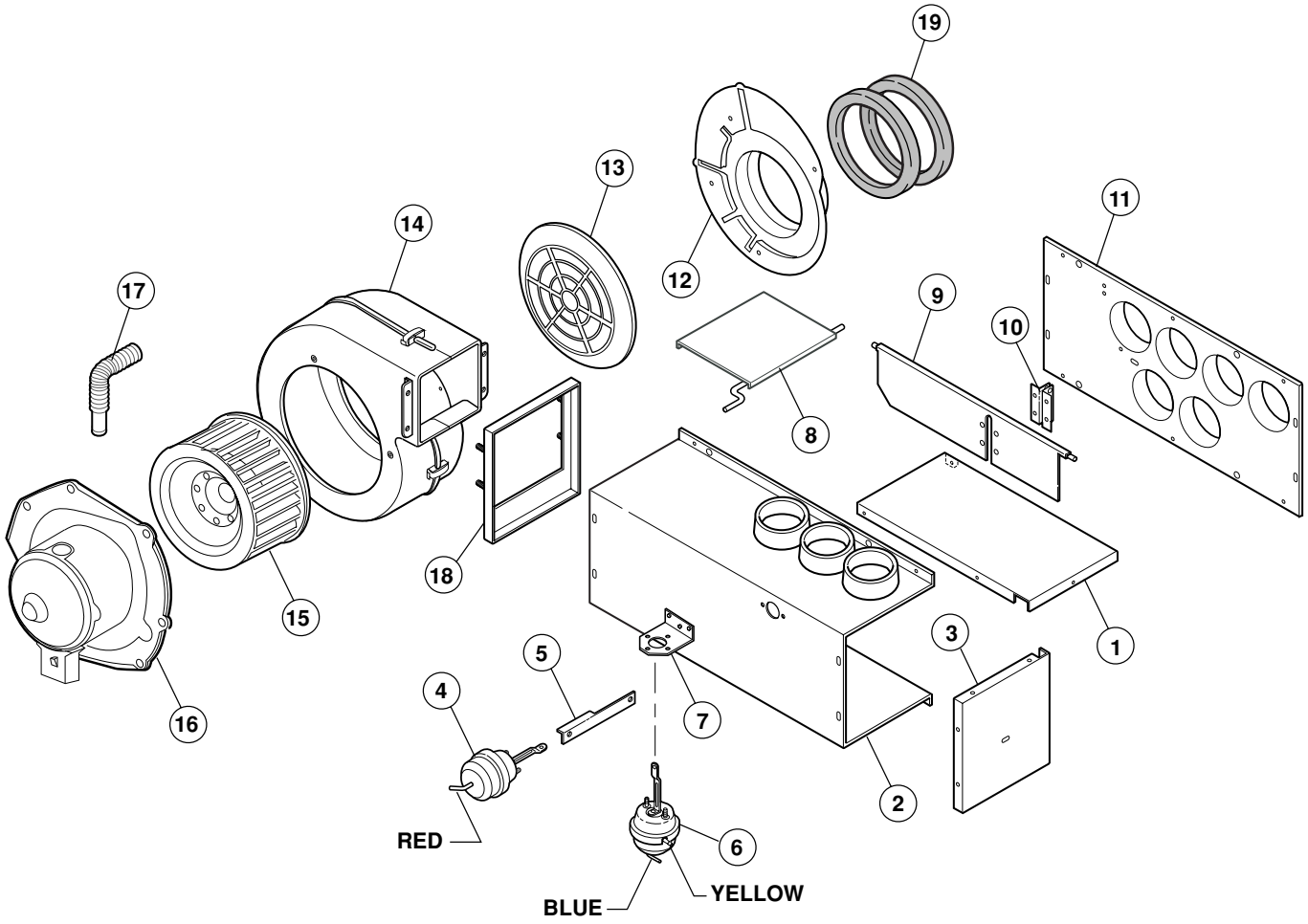
1. 071-00563 DIVIDER
2. 071-00625 WRAPPER
3. 071-00603 CAP
4. 030-00025 VACUUM MOTOR
5. 070-00661 EXTENSION BRACKET
6. 030-00029 VACUUM MOTOR
7. 070-00234 VAC. MOTOR BRACKET
8. 071-00562 DOOR
9. 071-00614 DOOR
10. 070-00662 BRACKET
11. 071-00561 BACK PANEL
12. 060-00439 INLET GUIDE
13. 062-00112 VENTURI
14. 062-00113 BLOWER HOUSING
15. 062-00002 BLOWER WHEEL
16. 030-00001 BLOWER MOTOR
17. 051-00034 VENT HOSE
18. 070-00613 BRACKET



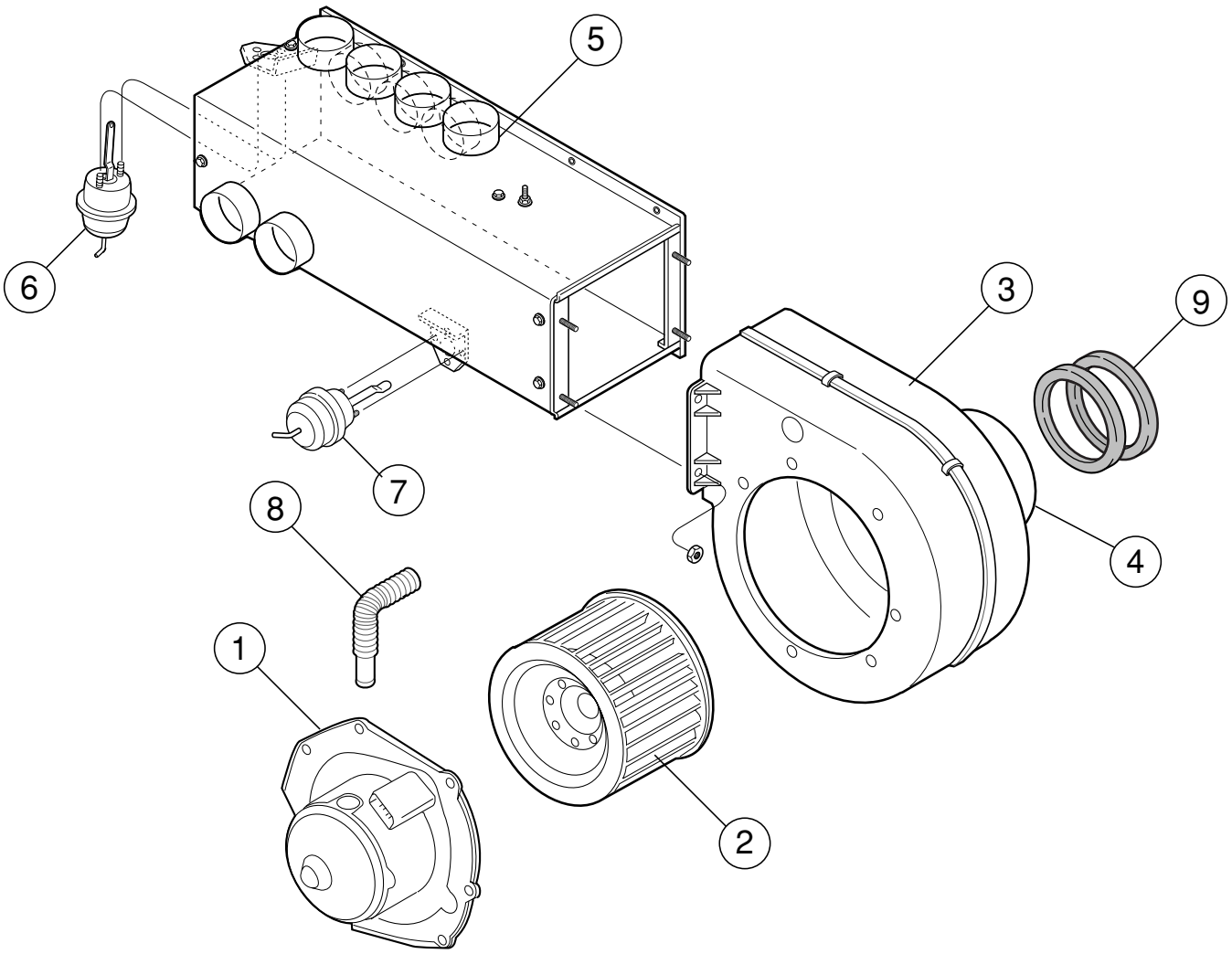
1. 030-00004 BLOWER MOTOR
2. 062-00010 BLOWER WHEEL
3. 062-00113 BLOWER HOUSING
4. 060-00135 INLET GUIDE
5. 071-00263 PLENUM HOUSING
6. 030-00029 VACUUM MOTOR
7. 030-00025 VACUUM MOTOR
8. 051-00034 VENT HOSE

NS 071-00259 BACK PANEL*
NS 062-00112 VENTURI*

*NS = NOT SHOWN

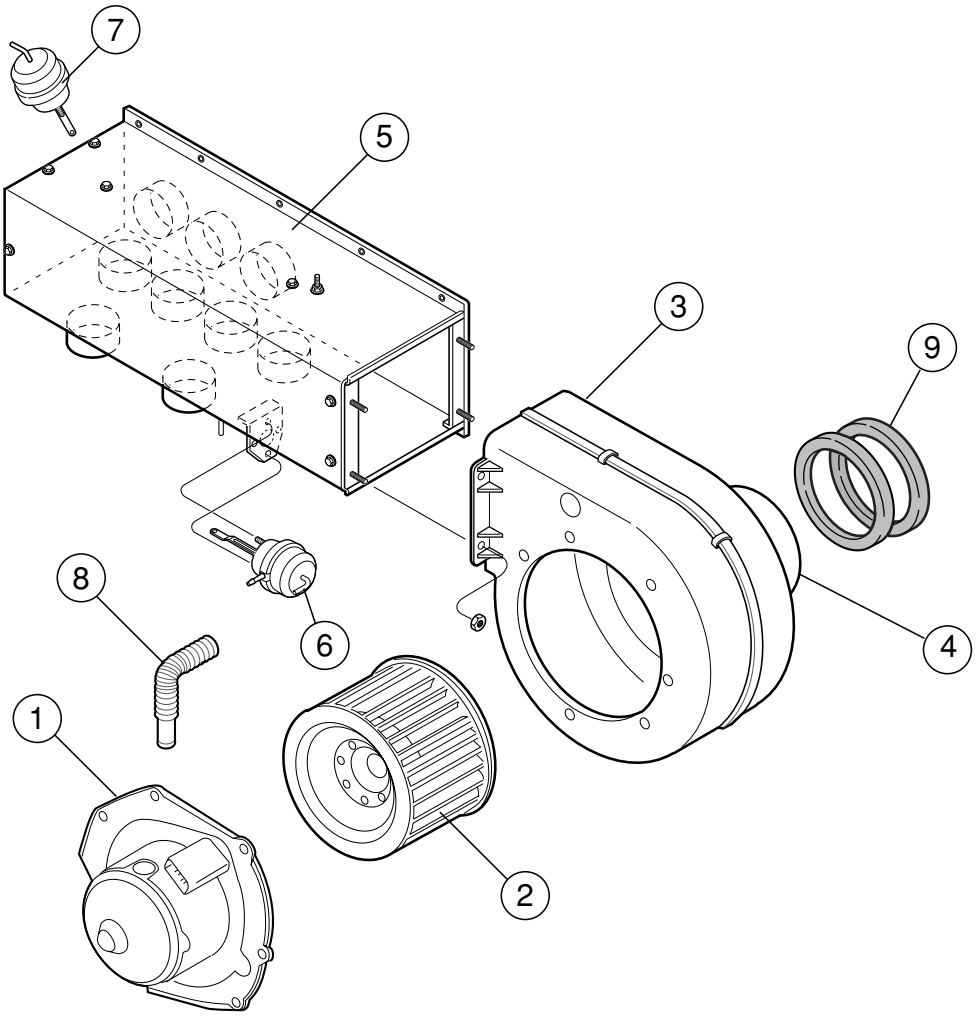


1. 071-00563 DIVIDER
2. 071-00625 WRAPPER
3. 071-00603 CAP
4. 030-00025 VACUUM MOTOR
5. 070-00661 EXTENSION BRACKET
6. 030-00029 VACUUM MOTOR
7. 070-00234 VAC. MOTOR BRACKET
8. 071-00562 DOOR
9. 071-00614 DOOR
10. 070-00662 BRACKET
11. 071-00561 BACK PANEL
12. 060-00439 INLET GUIDE
13. 062-00112 VENTURI
14. 062-00113 BLOWER HOUSING
15. 062-00002 BLOWER WHEEL
16. 030-00120 BLOWER MOTOR
17. 051-00034 VENT HOSE
18. 070-00613 BRACKET
19. 045-00241 GASKET



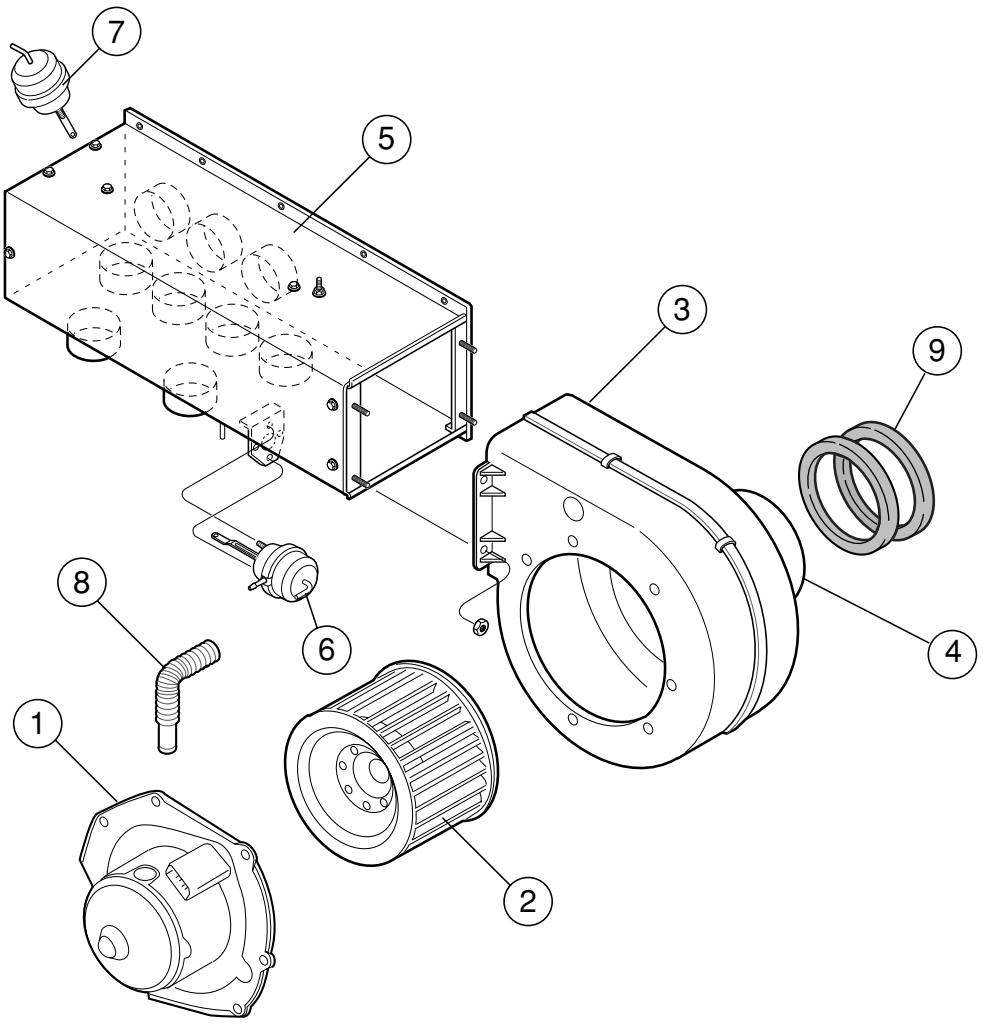
1. 030-00137 BLOWER MOTOR	5. 071-00260 PLENUM HOUSING	9. 045-00241 GASKET
2. 062-00010 BLOWER WHEEL	6. 030-00025 VACUUM MOTOR	NS 062-00112 VENTURI*
3. 062-00113 BLOWER HOUSING	7. 030-00029 VACUUM MOTOR	NS 071-00259 BACK PANEL*
4. 060-00134 INLET GUIDE	8. 051-00034 VENT HOSE	

*NS = NOT SHOWN



1. 030-00137 BLOWER MOTOR	5. 071-00263 PLENUM HOUSING	9. 045-00241 GASKET
2. 062-00010 BLOWER WHEEL	6. 030-00029 VACUUM MOTOR	NS 062-00112 VENTURI*
3. 062-00113 BLOWER HOUSING	7. 030-00025 VACUUM MOTOR	NS 071-00259 BACK PANEL*
4. 060-00135 INLET GUIDE	8. 051-00034 VENT HOSE	

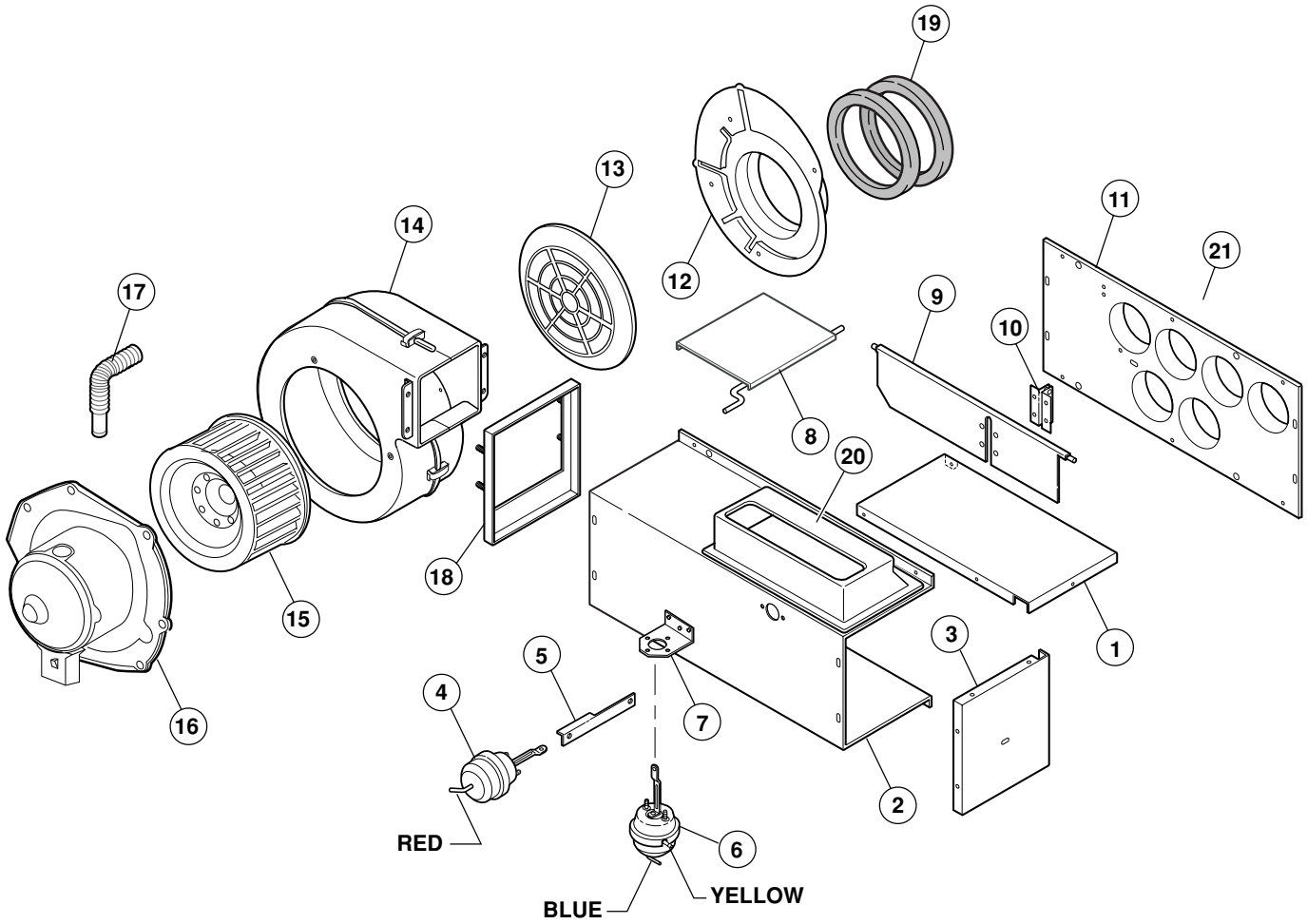
*NS = NOT SHOWN



1. 030-00137	BLOWER MOTOR	
2. 062-00010	BLOWER WHEEL	
3. 062-00113	BLOWER HOUSING	
4. 060-00134	INLET GUIDE	
5. 071-00263	PLENUM HOUSING	
6. 030-00029	VACUUM MOTOR	
7. 030-00025	VACUUM MOTOR	
8. 051-00034	VENT HOSE	
9. 045-00241	GASKET	
NS 062-00112	VENTURI*	
NS 071-00259	BACK PANEL*	

*NS = NOT SHOWN

SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **KIT NO. 093-00610; PLENUM ASSEMBLY 087-00260**	PAGE **C-46** 4/25/02



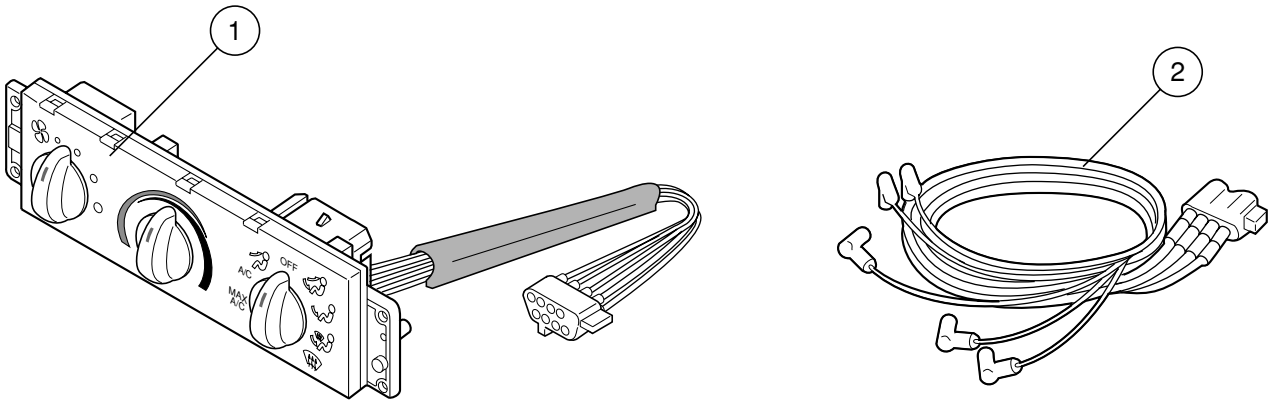
1. 071-00563 DIVIDER
2. 071-00939 WRAPPER
3. 071-00603 CAP
4. 030-00025 VACUUM MOTOR
5. 070-00661 EXTENSION BRACKET
6. 030-00029 VACUUM MOTOR
7. 070-00234 VAC. MOTOR BRACKET
8. 071-00562 DOOR
9. 071-00614 DOOR
10. 070-00662 BRACKET
11. 071-00561 BACK PANEL
12. 060-00439 INLET GUIDE
13. 062-00112 VENTURI
14. 062-00113 BLOWER HOUSING
15. 062-00002 BLOWER WHEEL
16. 030-00120 BLOWER MOTOR
17. 051-00034 VENT HOSE
18. 070-00613 BRACKET
19. 045-00241 GASKET
20. 060-00690 DEFROST TRANSITION
21. 062-00059 HOSE ADAPTER, 2.5"

SPECIFIC CLIMATE SYSTEMS, INC.
1200 WEST RISINGER ROAD
FORT WORTH, TEXAS 76134
TEL. 817-293-5313

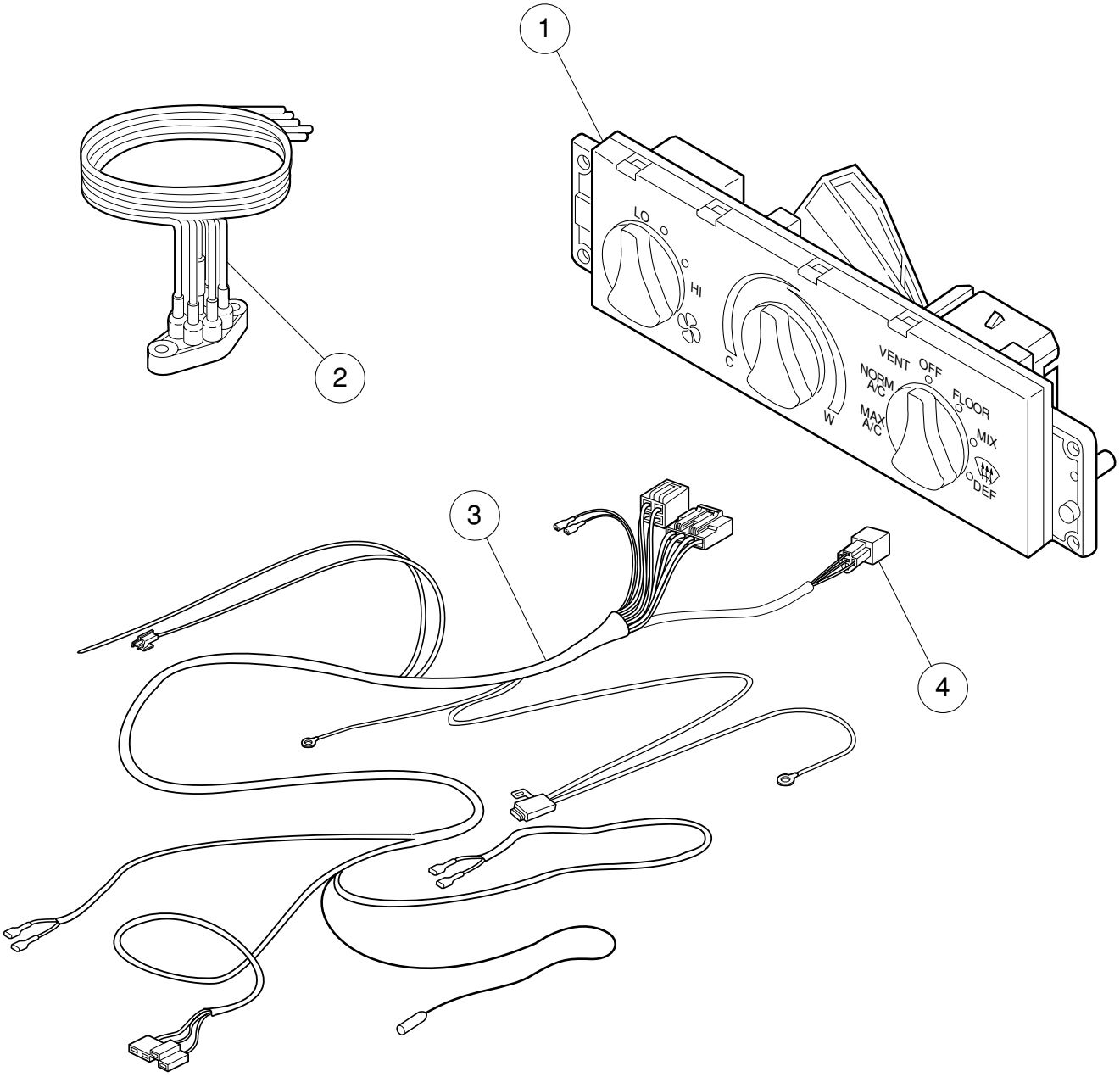
MASTER SERVICE MANUAL

KIT NO. 093-00680; PLENUM ASSEMBLY 087-00334

PAGE **C-48** 9/22/03

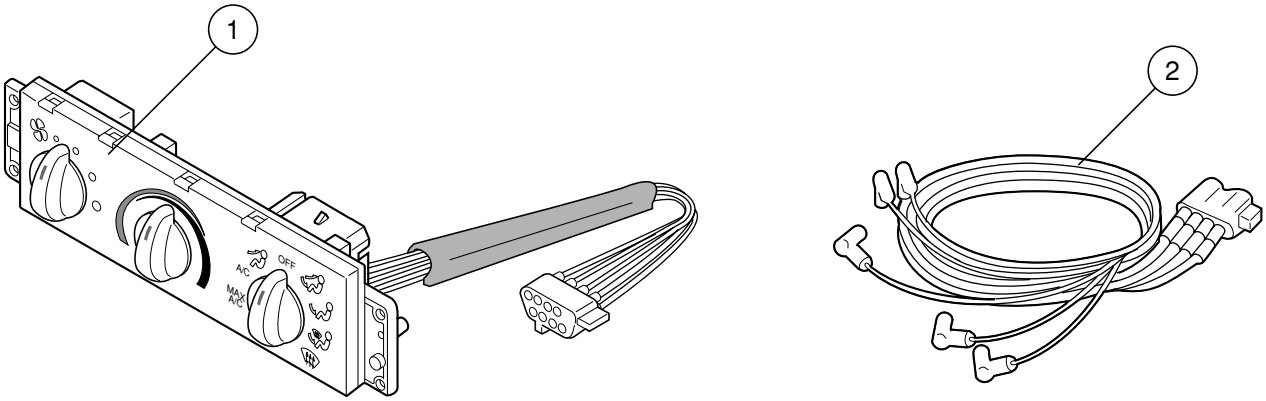


1. 032-00058 CONTROL PANEL
2. 036-00504 VACUUM HARNESS

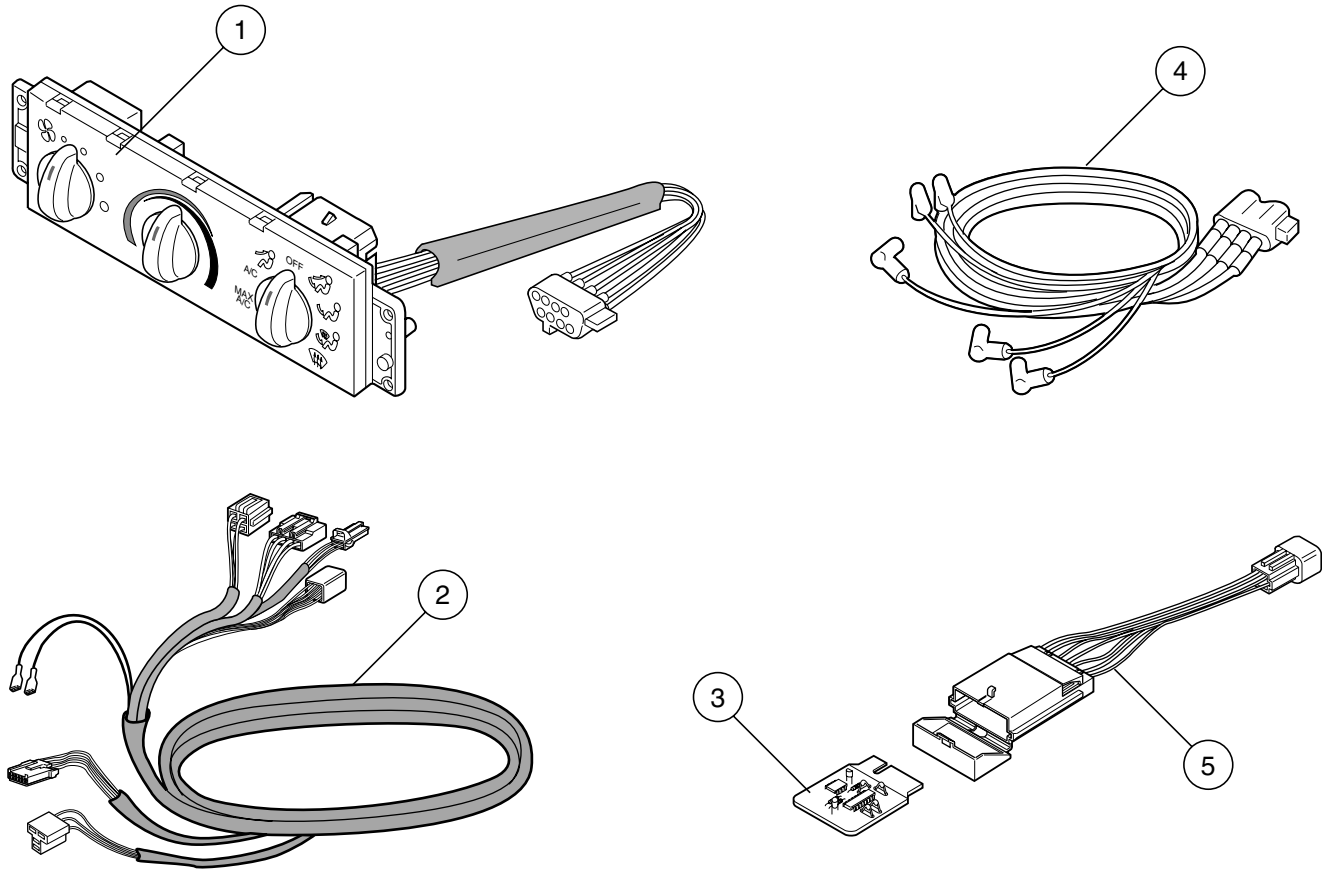


1. 032-00056 CONTROL PANEL
2. 036-00125 VACUUM HARNESS
3. 036-00163 WIRE HARNESS
4. 031-00001 RELAY

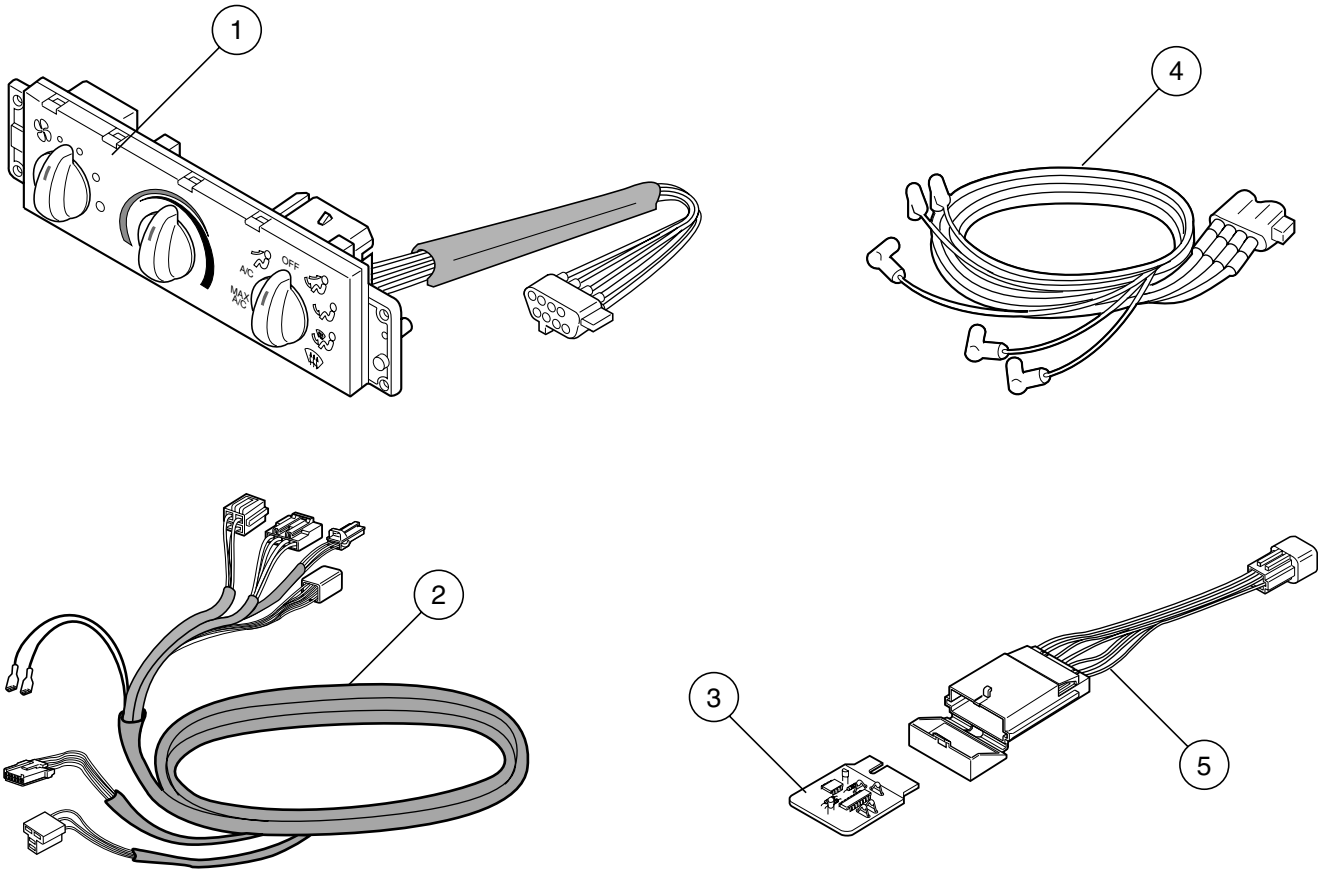
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **032-00096 CONTROL ASSEMBLY**	PAGE **D-18** 8/11/97



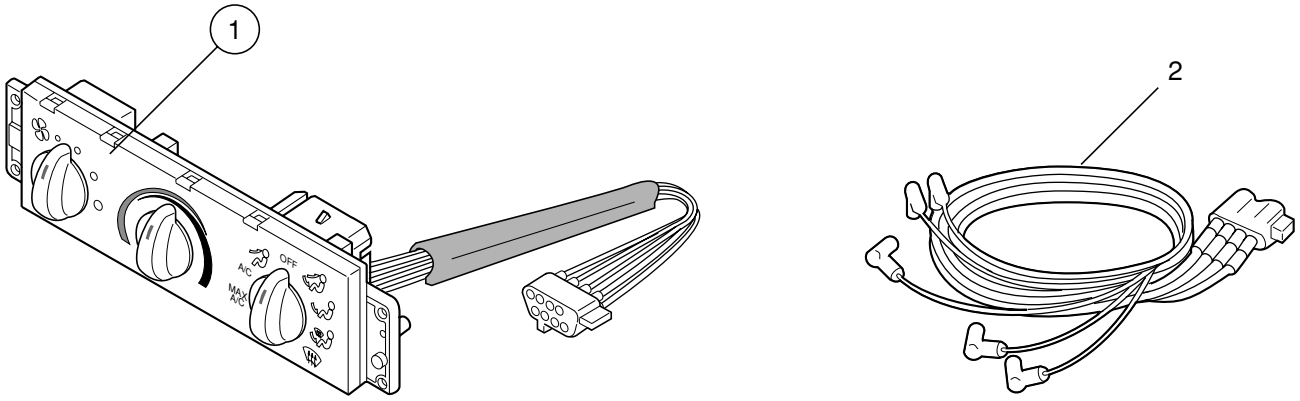
1. 032-00058 CONTROL PANEL
2. 036-00098 VACUUM HARNESS



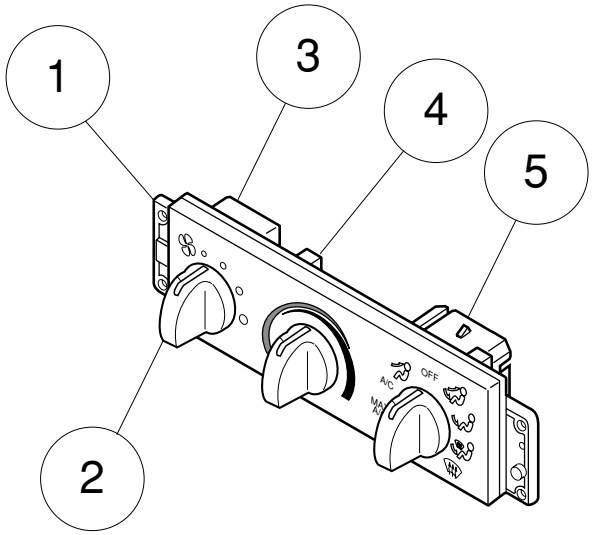
1. 032-00058 CONTROL PANEL
2. 036-00113 WIRE HARNESS
3. 031-00006 CIRCUIT BOARD
4. 036-00101 VACUUM HARNESS
5. 036-00114 HARNESS, PCB



1. 032-00058 CONTROL PANEL
2. 036-00115 WIRE HARNESS
3. 031-00006 CIRCUIT BOARD
4. 036-00101 VACUUM HARNESS
5. 036-00114 HARNESS, PCB

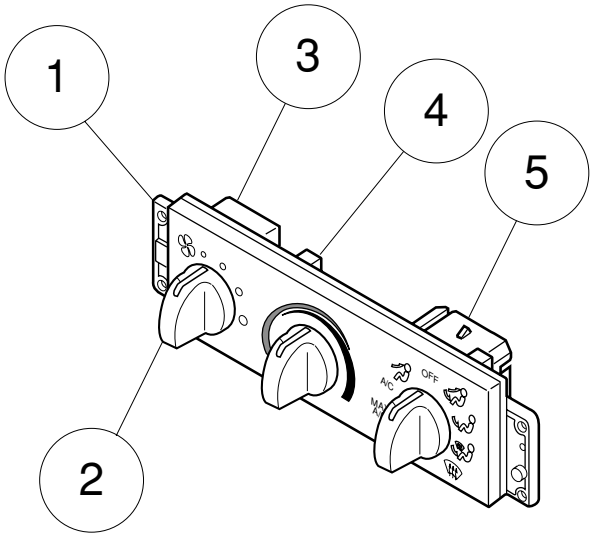


1. 032-00058 CONTROL PANEL
2. 036-00101 VACUUM HARNESS



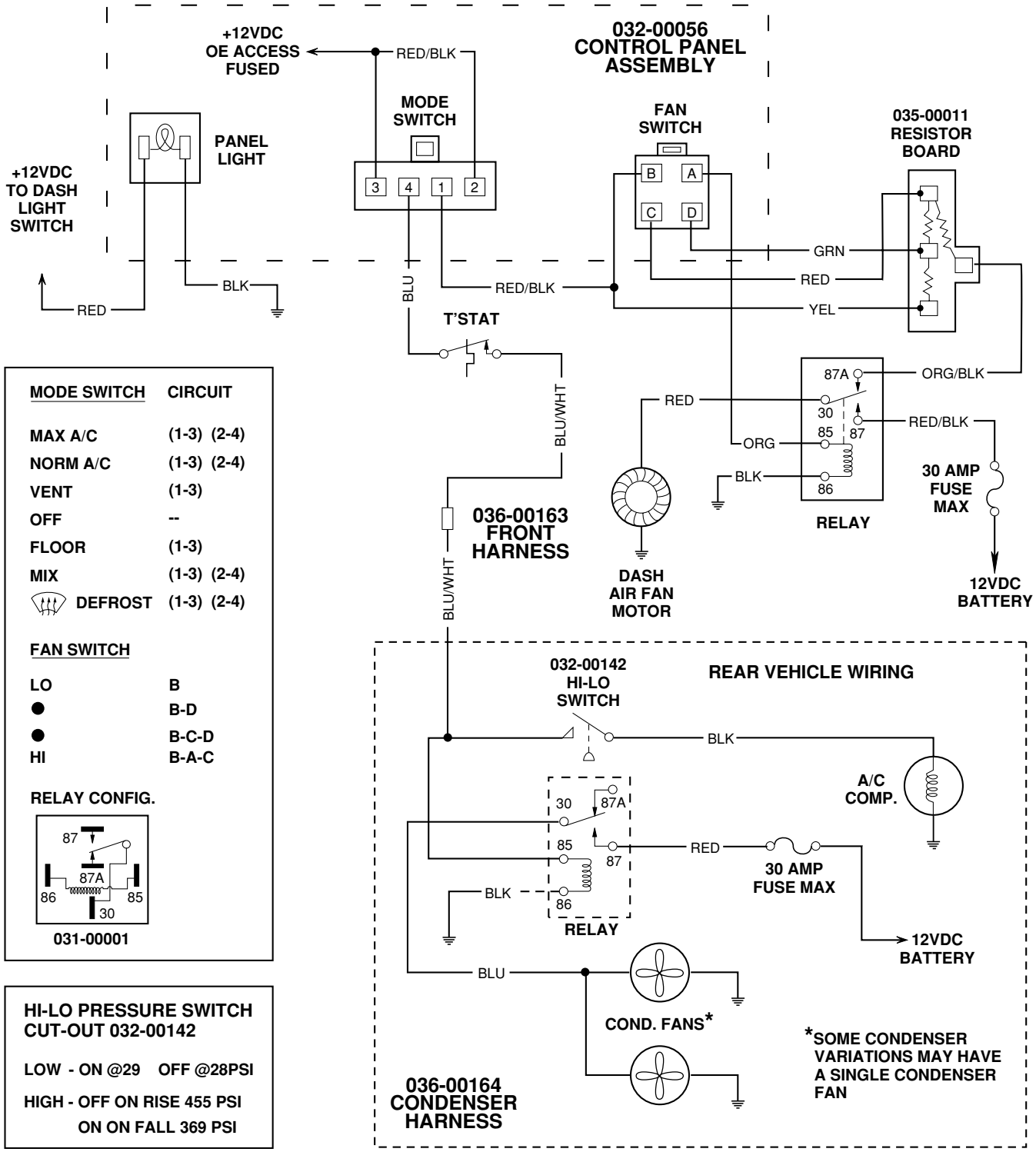
1. 083-00222 CONTROL HEAD ASSY	3. 032-00332 BLOWER SWITCH	5. 032-00336 MODE SWITCH
2. 062-00617 KNOB, 3/16" SHAFT	4. 032-00182 POTENTIOMETER	NS 036-00616 VACUUM HARNESS*

*NS = NOT SHOWN NOTE: ITEM 1 CONTROL HEAD ASSEMBLY INCLUDES ITEMS 2, 3, 4, 5



1. 083-00222 CONTROL HEAD ASSY
2. 062-00617 KNOB, 3/16" SHAFT
3. 032-00332 BLOWER SWITCH
4. 032-00182 POTENTIOMETER
5. 032-00336 MODE SWITCH
NS 036-00615 VACUUM HARNESS*

*NS = NOT SHOWN NOTE: ITEM 1 CONTROL HEAD ASSEMBLY INCLUDES ITEMS 2, 3, 4, 5



MODE SWITCH	CIRCUIT
MAX A/C	(1-3) (2-4)
NORM A/C	(1-3) (2-4)
VENT	(1-3)
OFF	--
FLOOR	(1-3)
MIX	(1-3) (2-4)
DEFROST	(1-3) (2-4)

FAN SWITCH	
LO	B
●	B-D
●	B-C-D
HI	B-A-C

RELAY CONFIG.

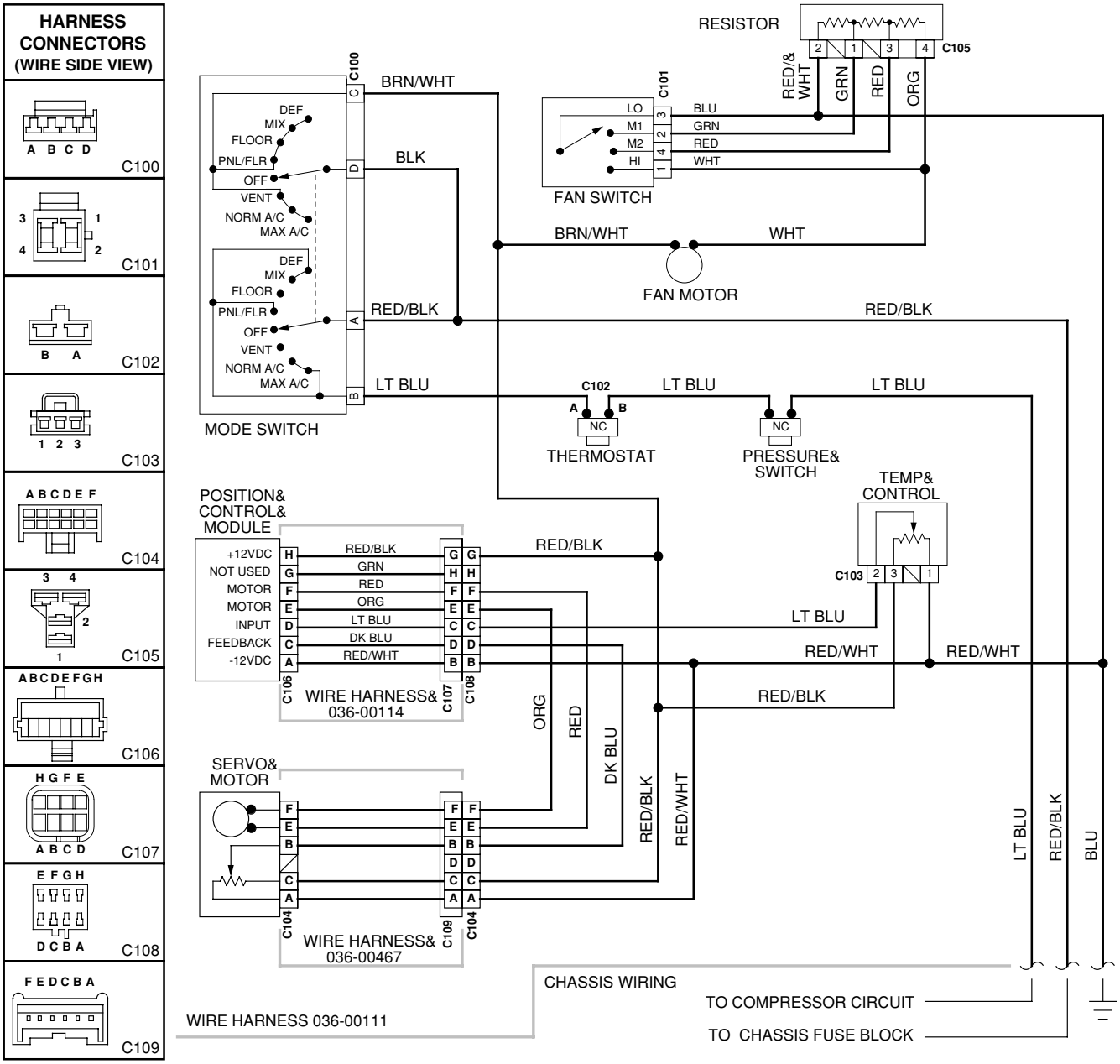
031-00001

HI-LO PRESSURE SWITCH CUT-OUT 032-00142

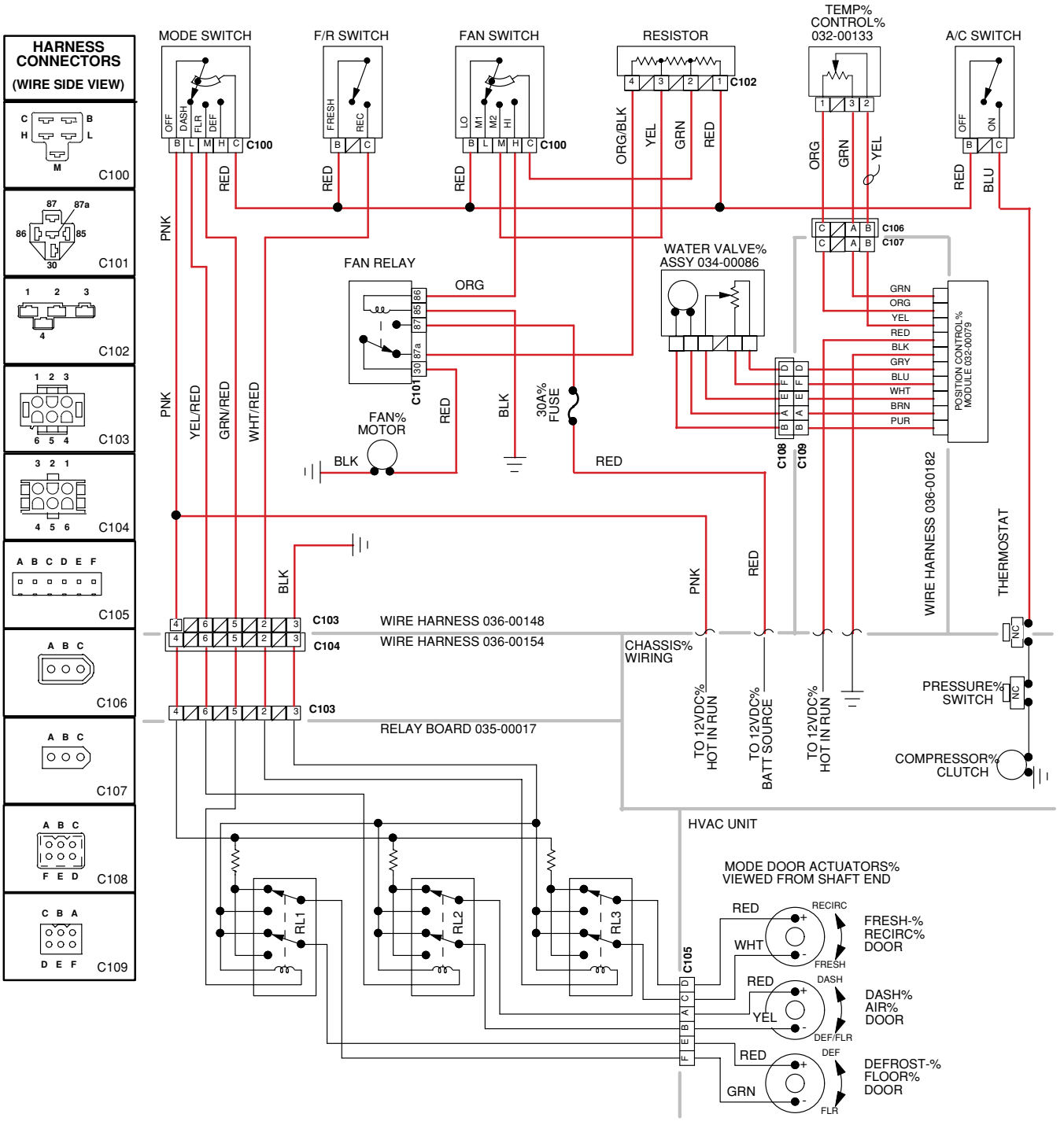
LOW - ON @29 OFF @28PSI

HIGH - OFF ON RISE 455 PSI
ON ON FALL 369 PSI

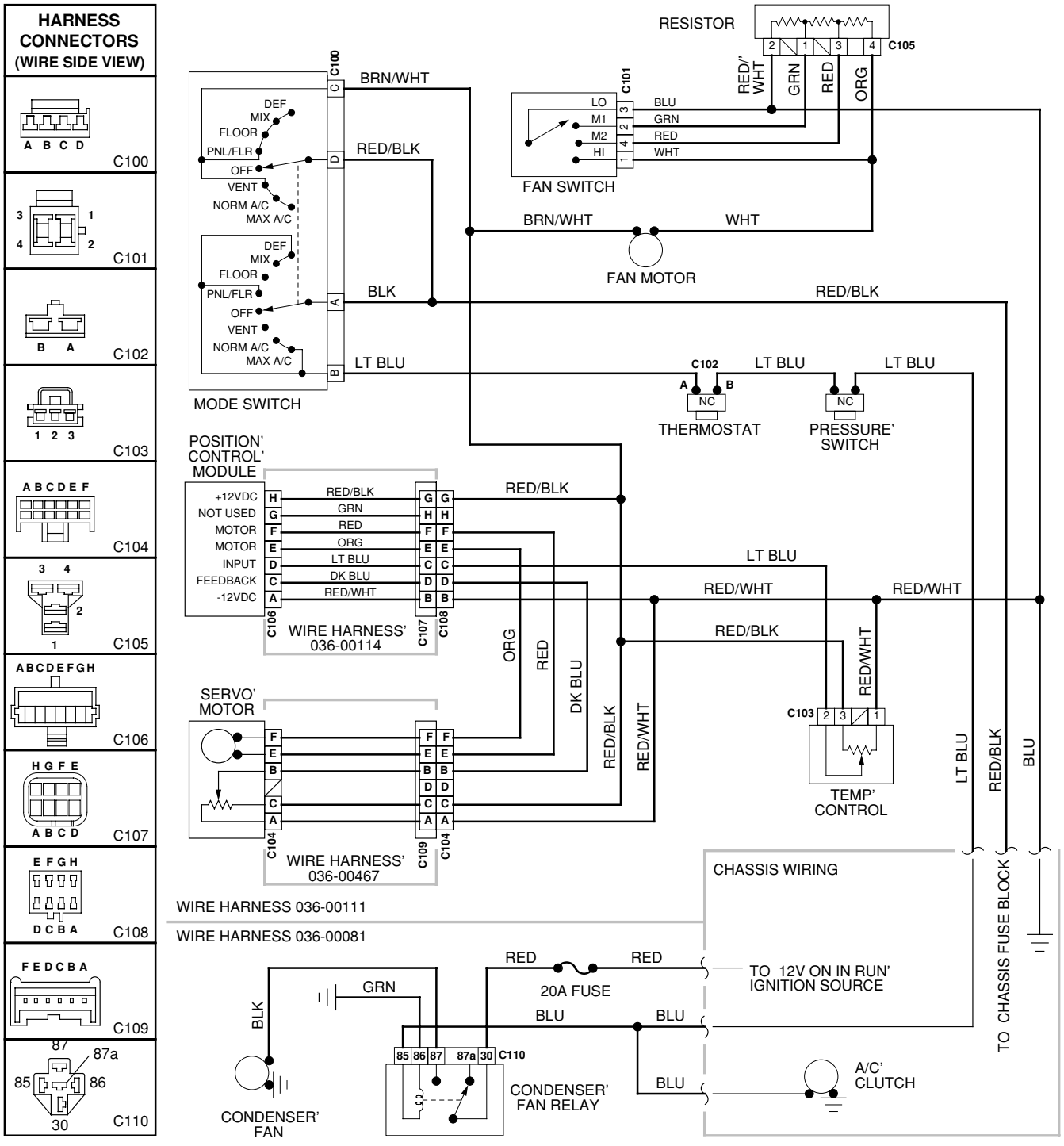
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-02** 8/11/97



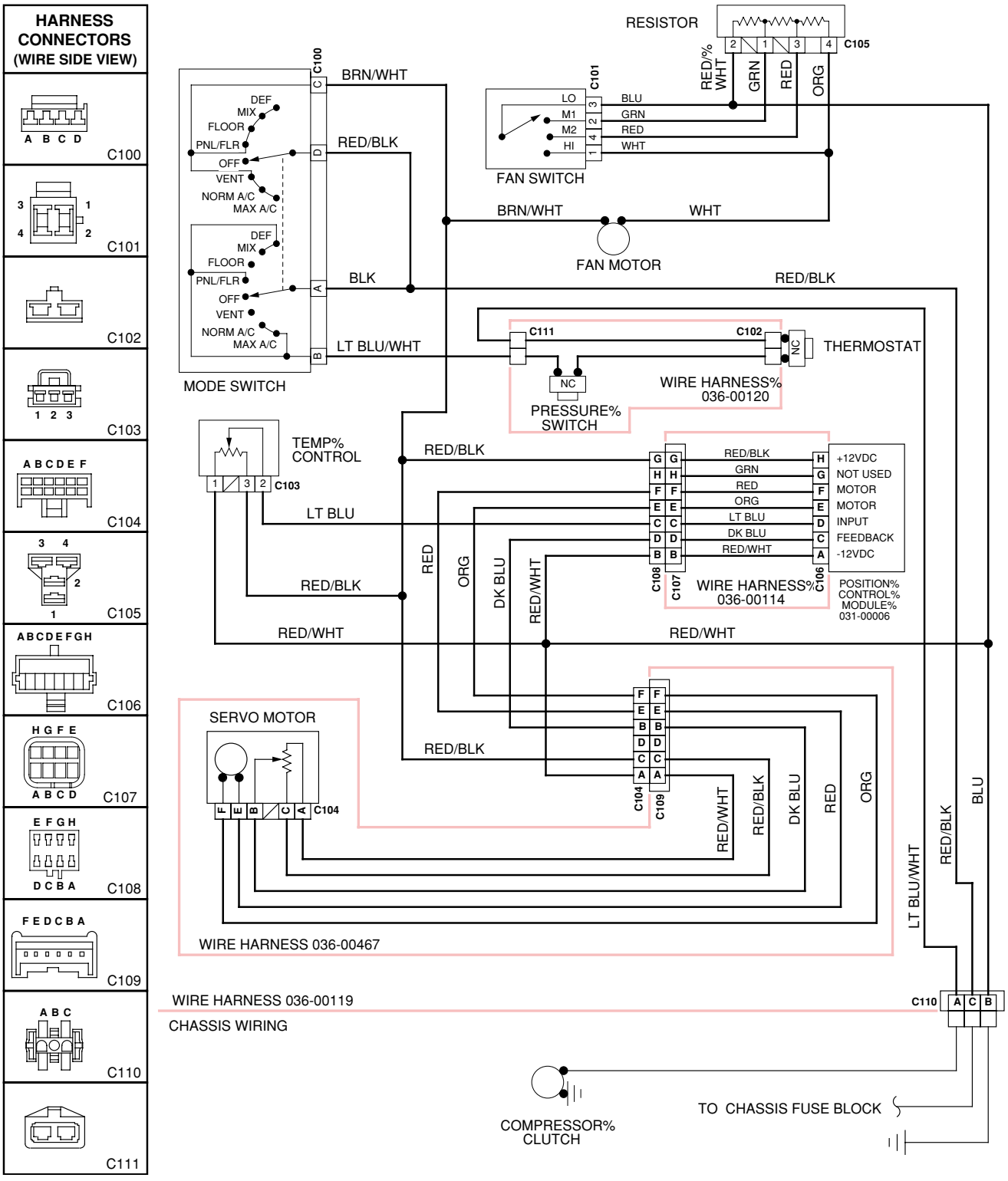
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-15** 2/17/98



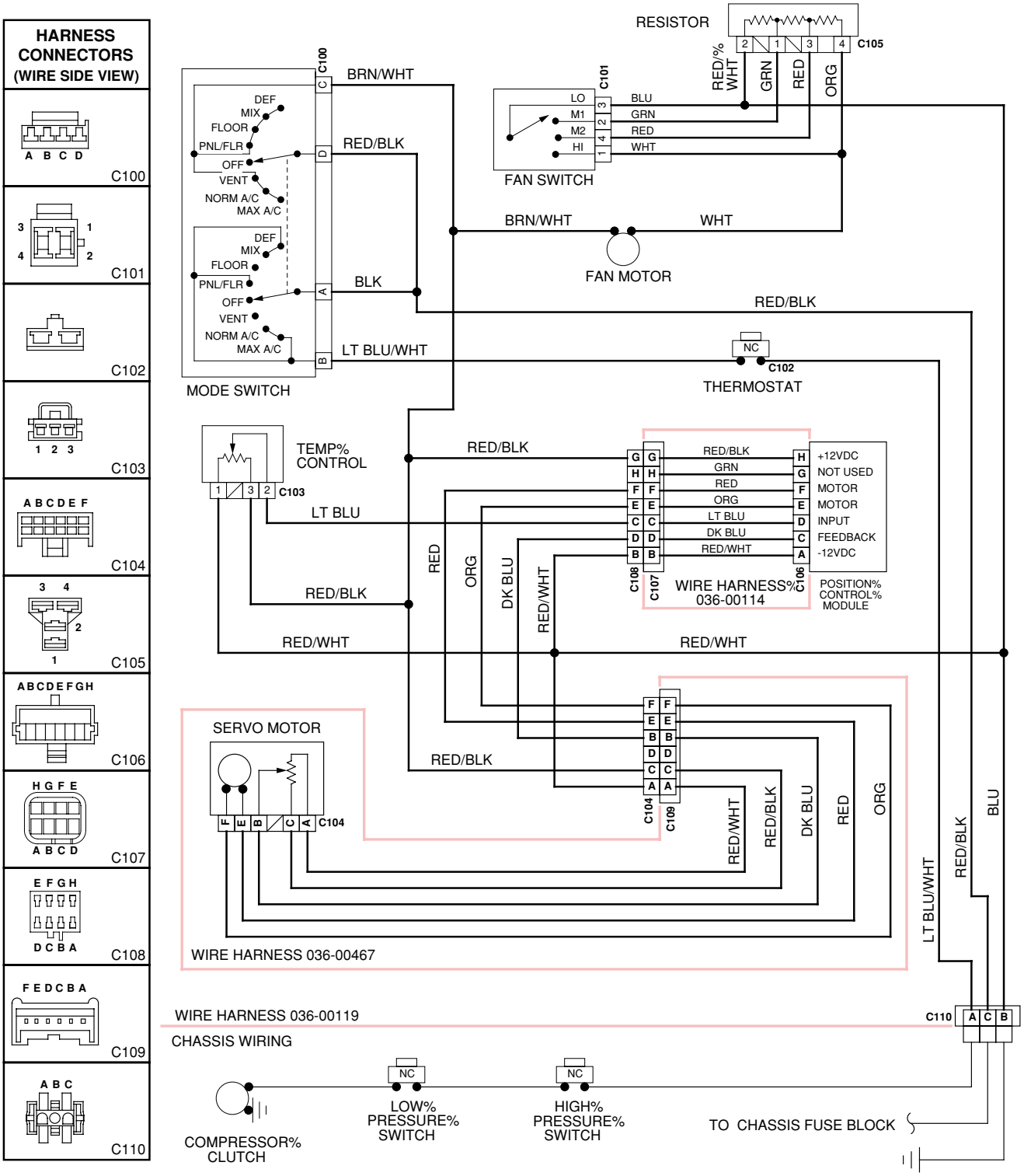
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-17** 11/13/98



SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-19** 2/17/98



SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-21** 2/17/98

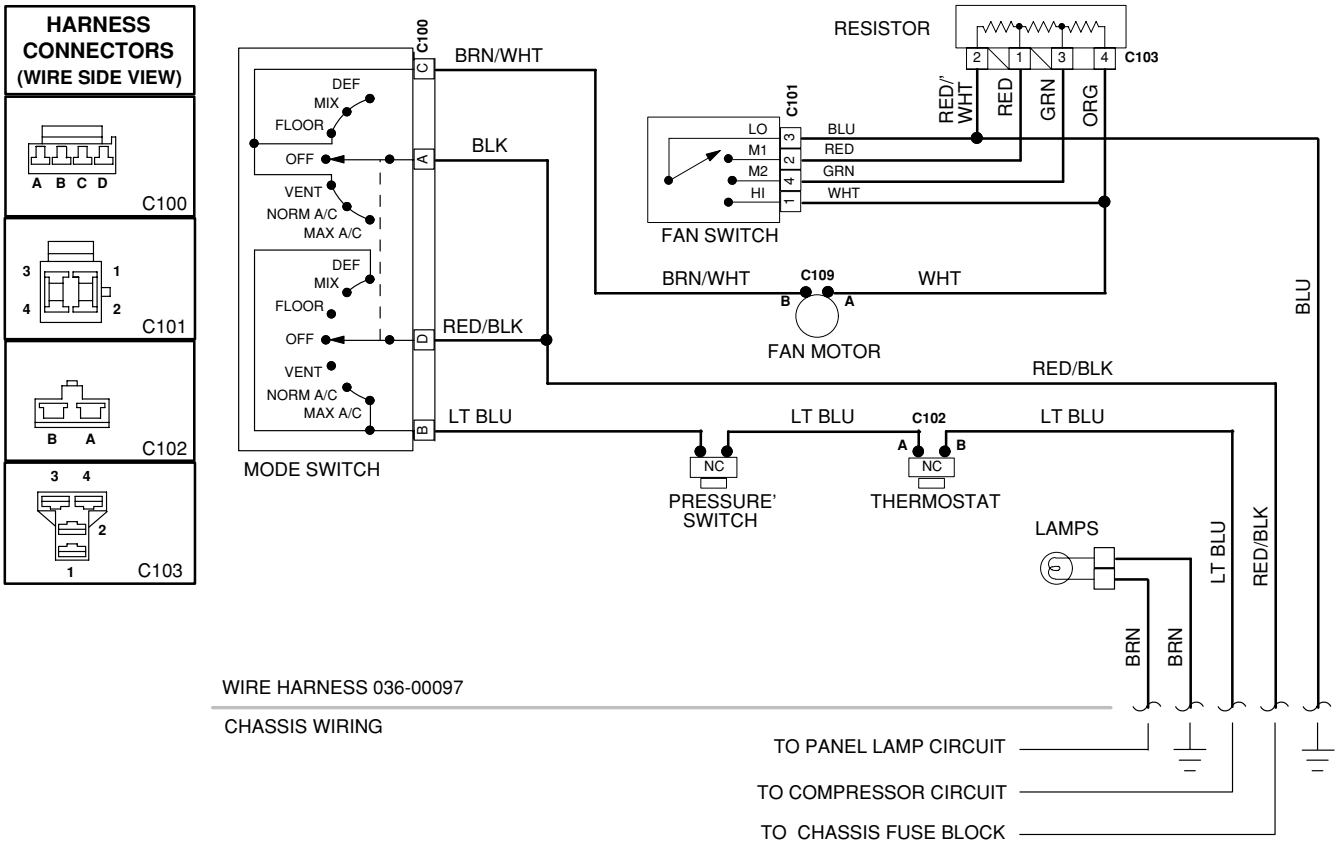


SPECIFIC CLIMATE SYSTEMS, INC.
1200 WEST RISINGER ROAD
FORT WORTH, TEXAS 76134
TEL. 817-293-5313

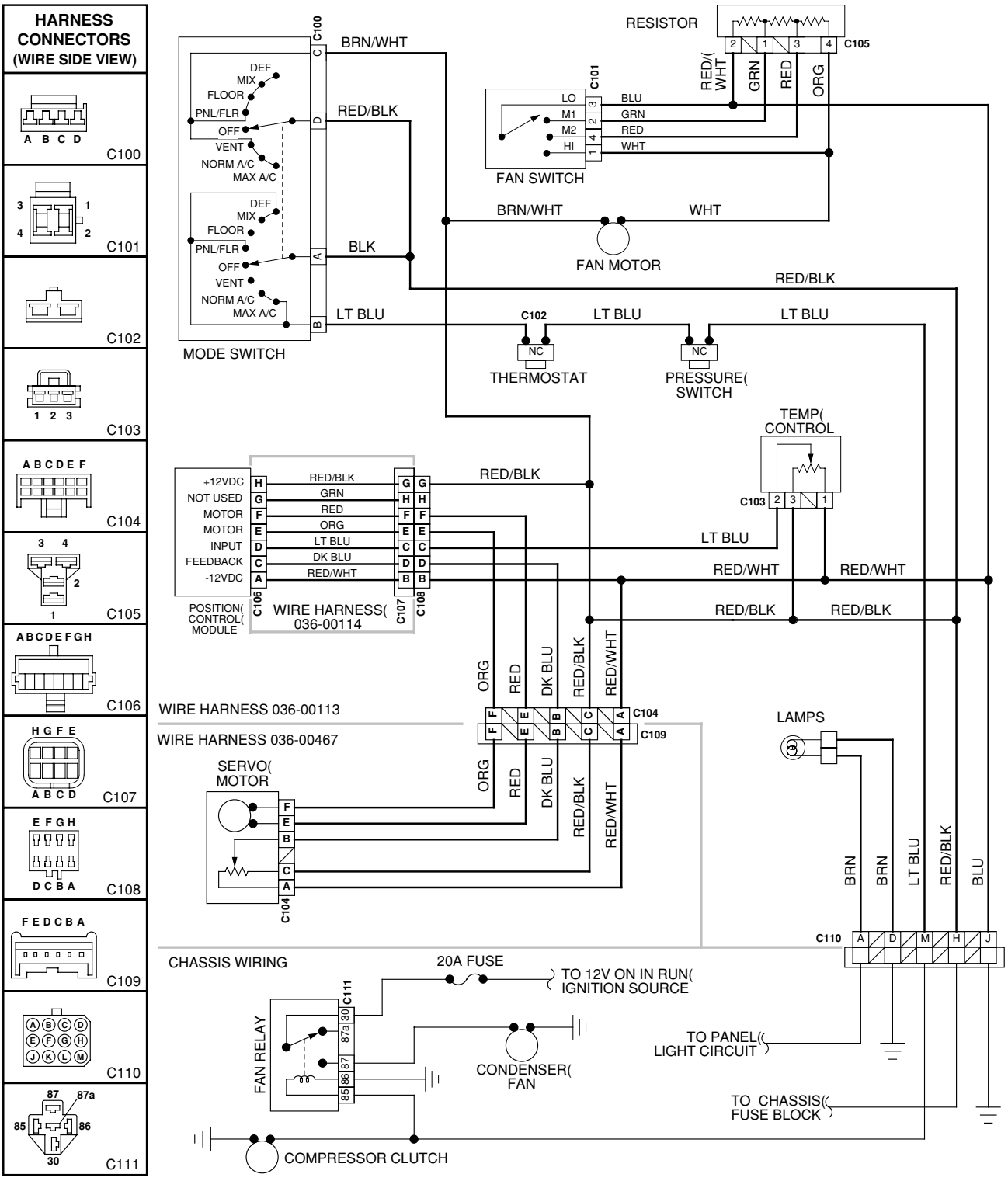
MASTER SERVICE MANUAL

WIRING DIAGRAM

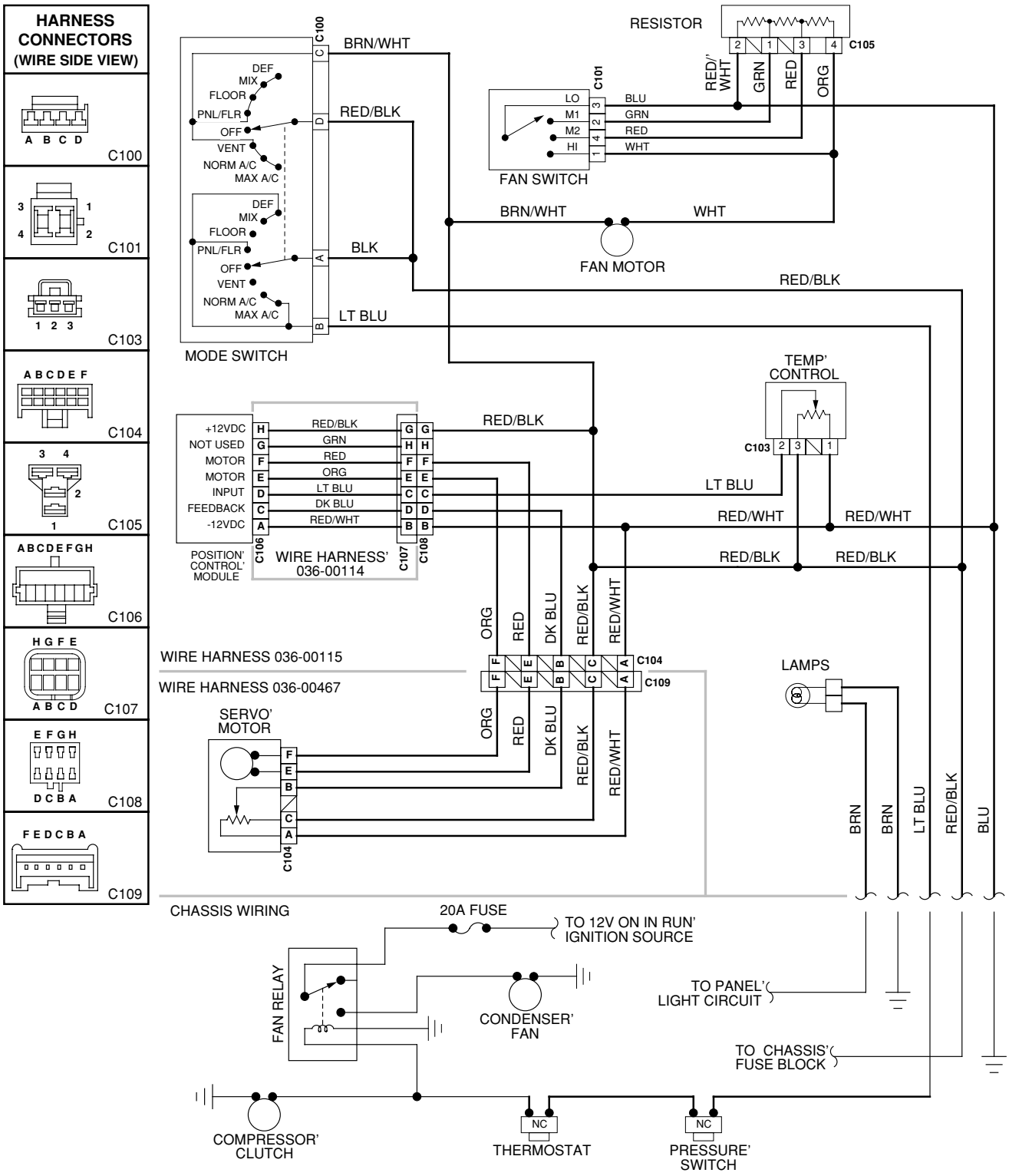
PAGE **E-22** 2/17/98



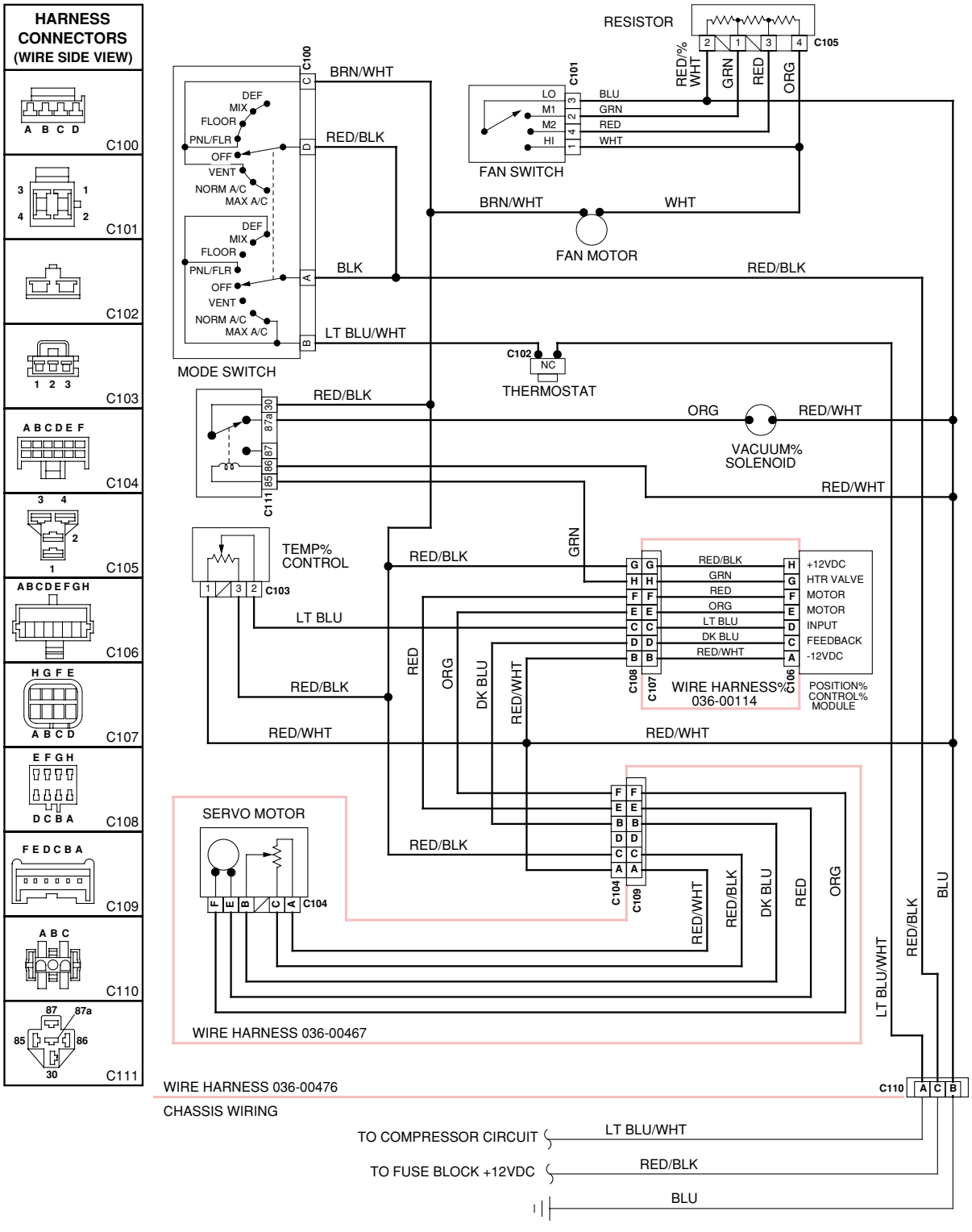
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-25** 4/1/99



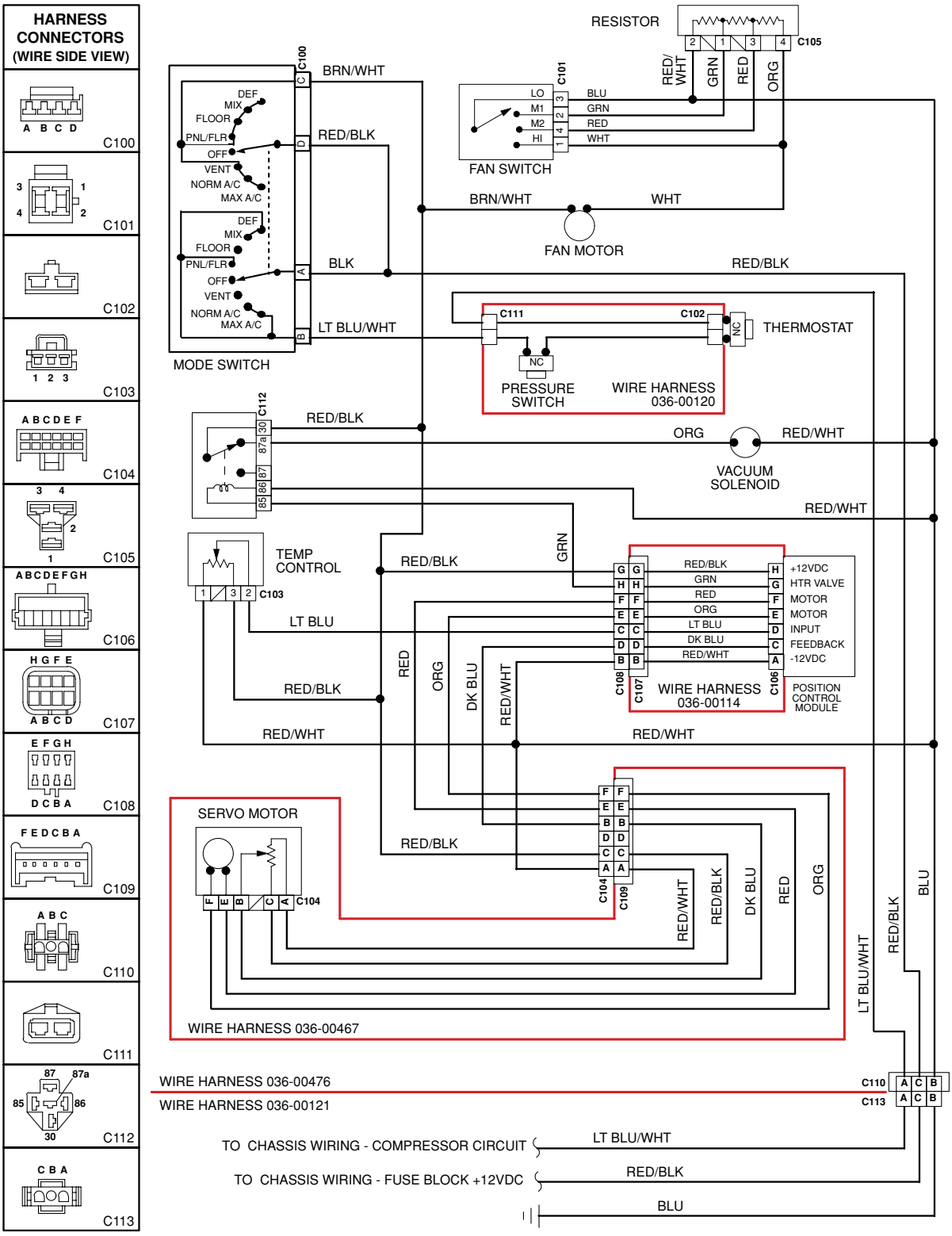
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-26** 2/17/98



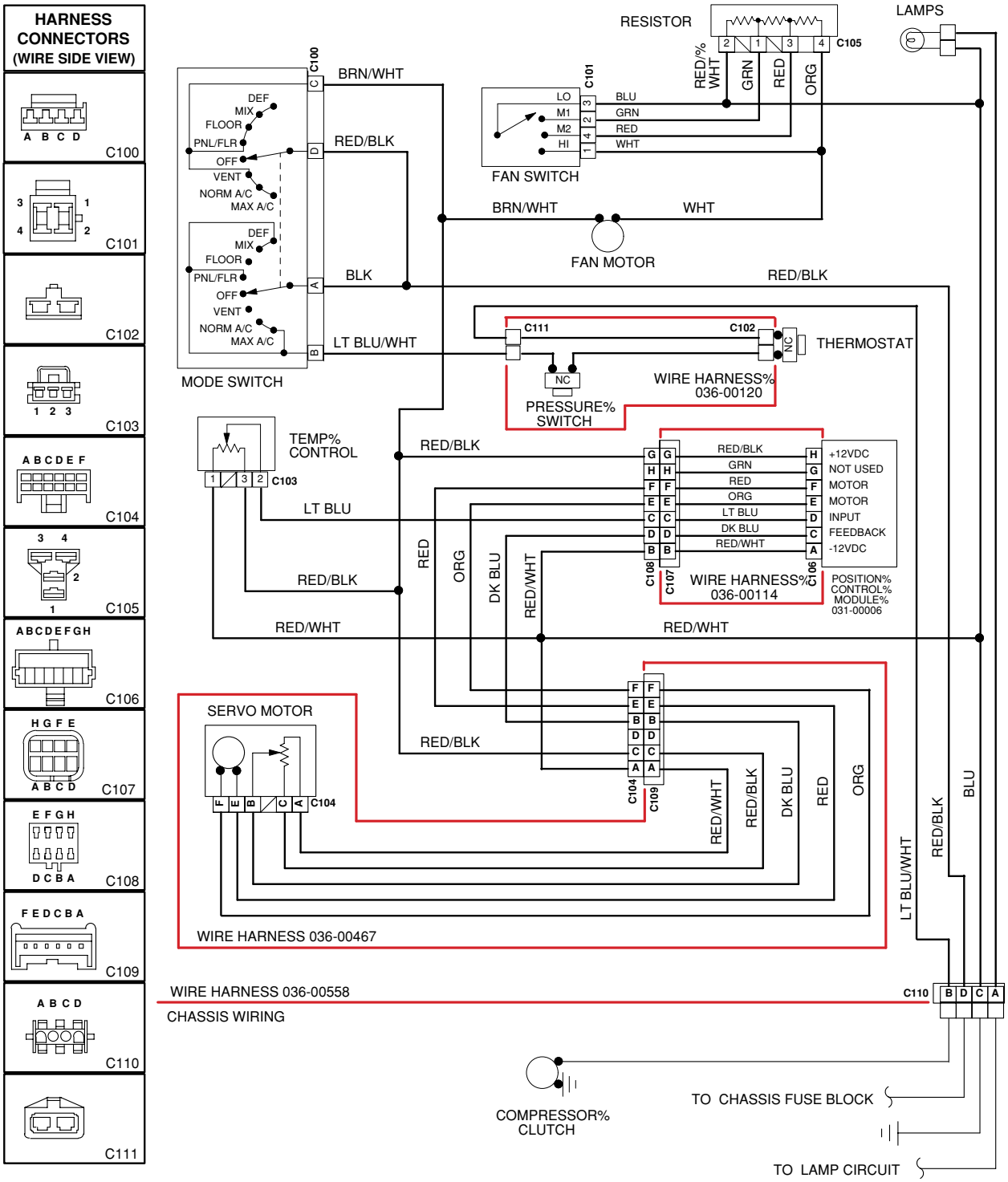
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-27** 2/17/98



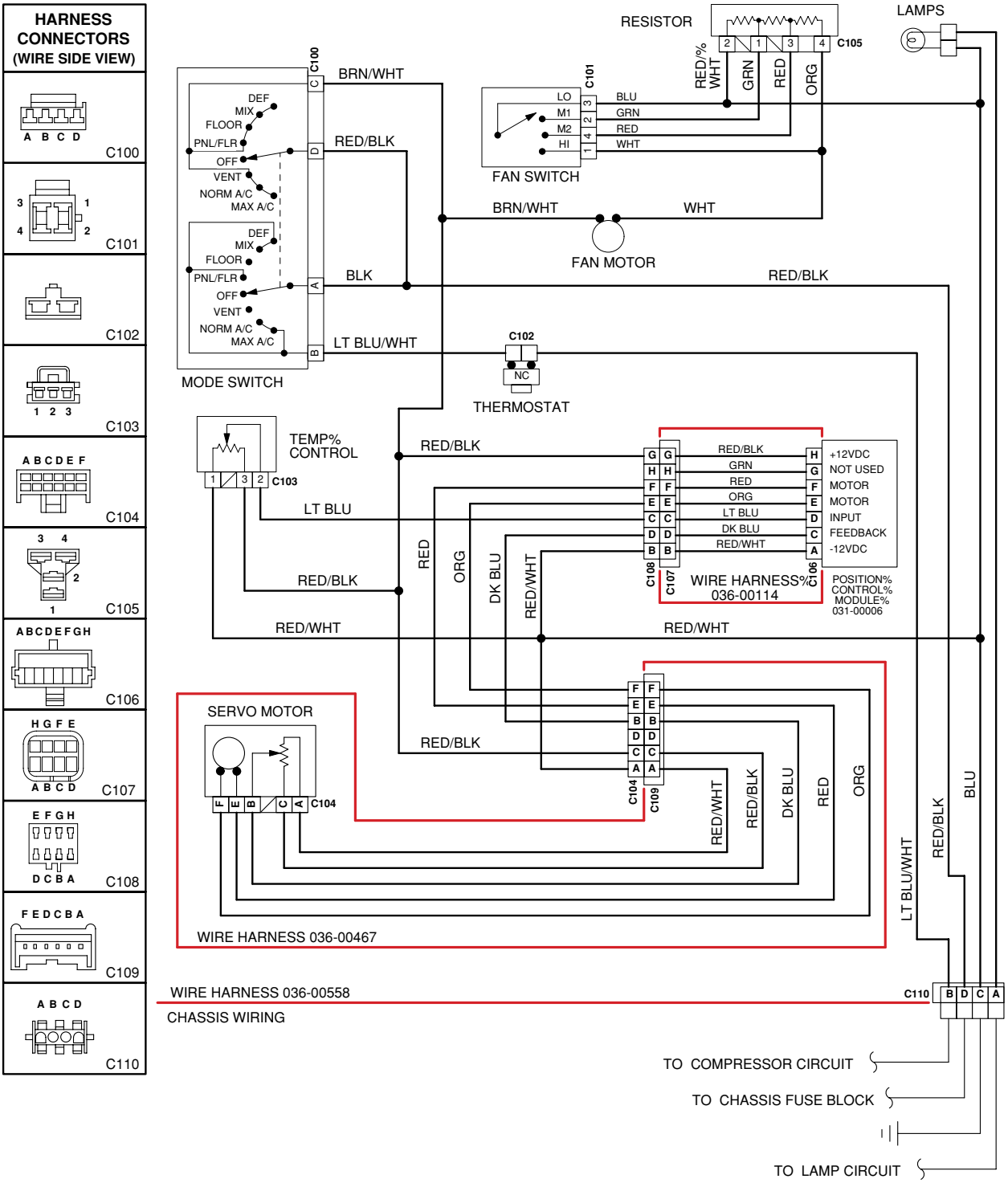
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-32** 2/17/98



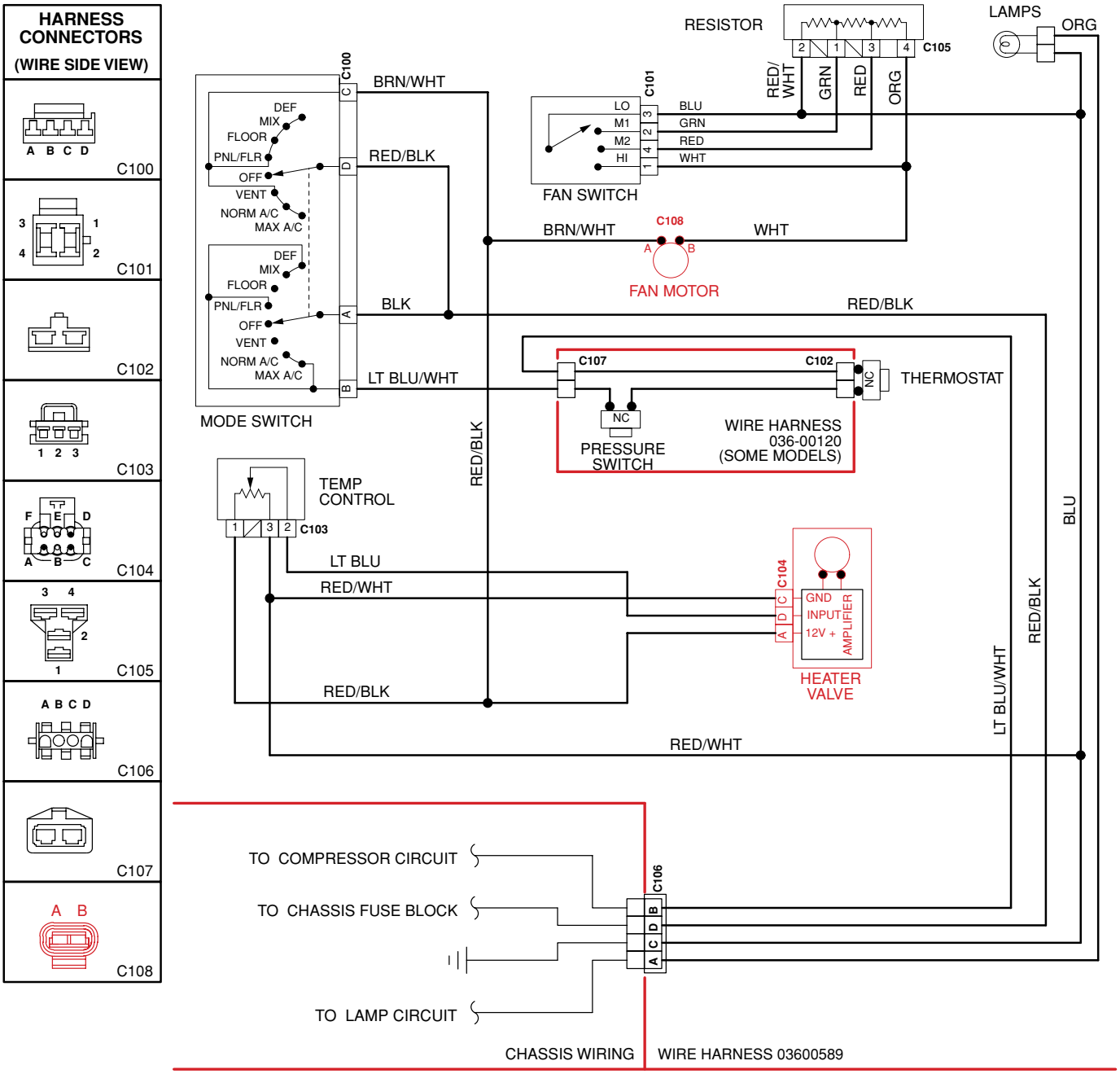
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-34** 2/17/98



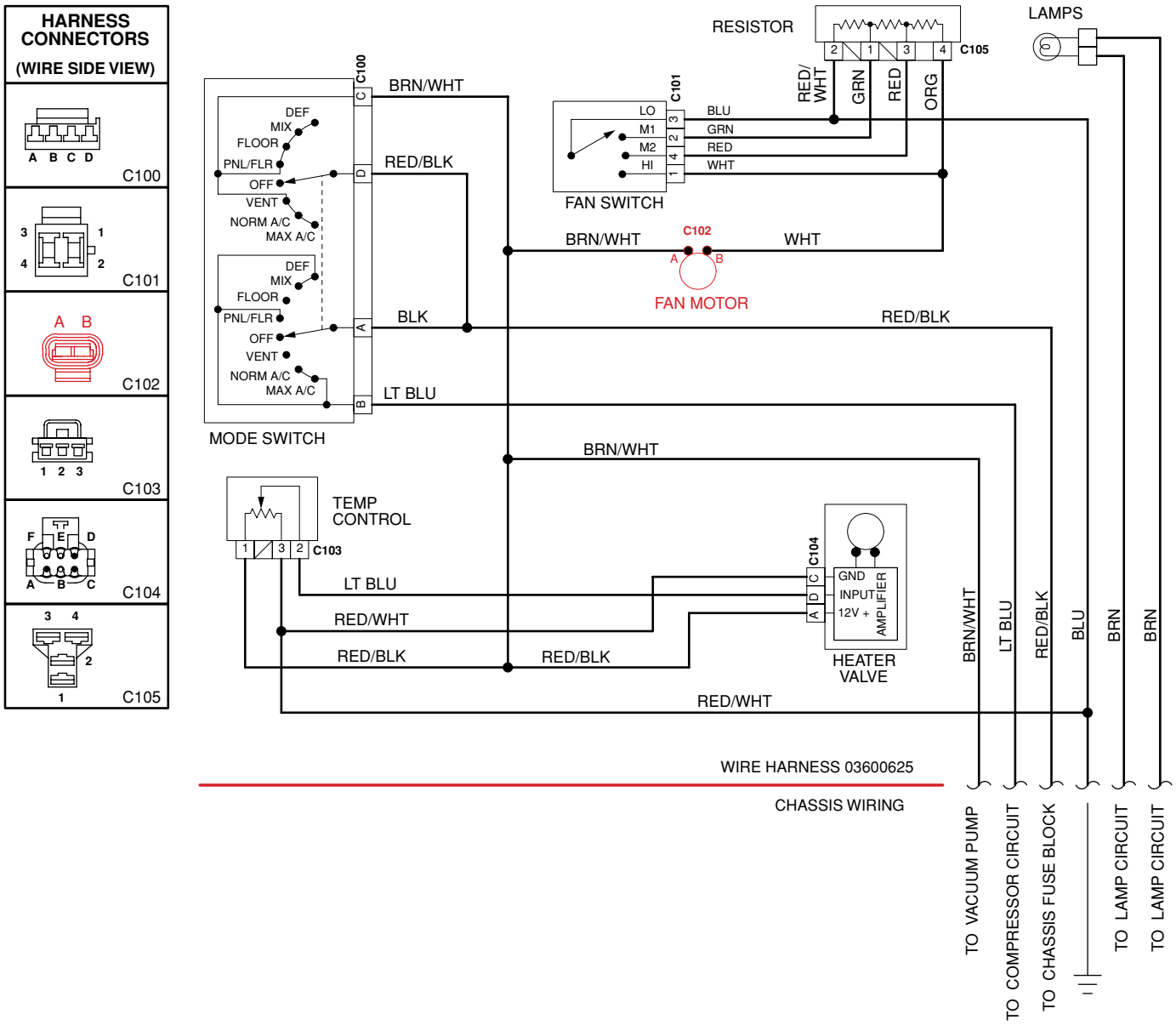
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-39** 2/21/00



SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-42** 8/7/00



SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-46** 10/17/01



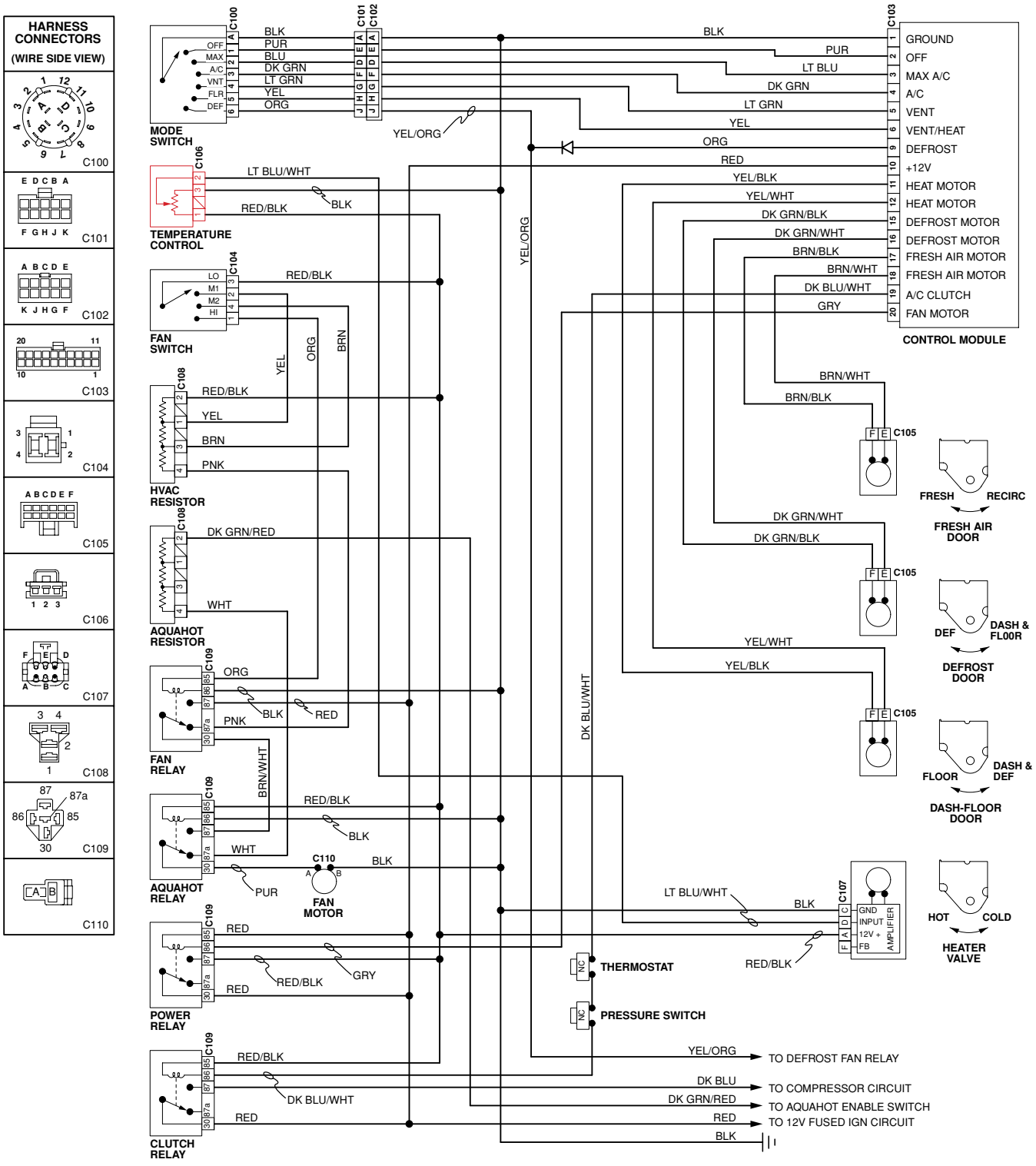
SPECIFIC CLIMATE SYSTEMS, INC.
1200 WEST RISINGER ROAD
FORT WORTH, TEXAS 76134
TEL. 817-293-5313

MASTER SERVICE MANUAL

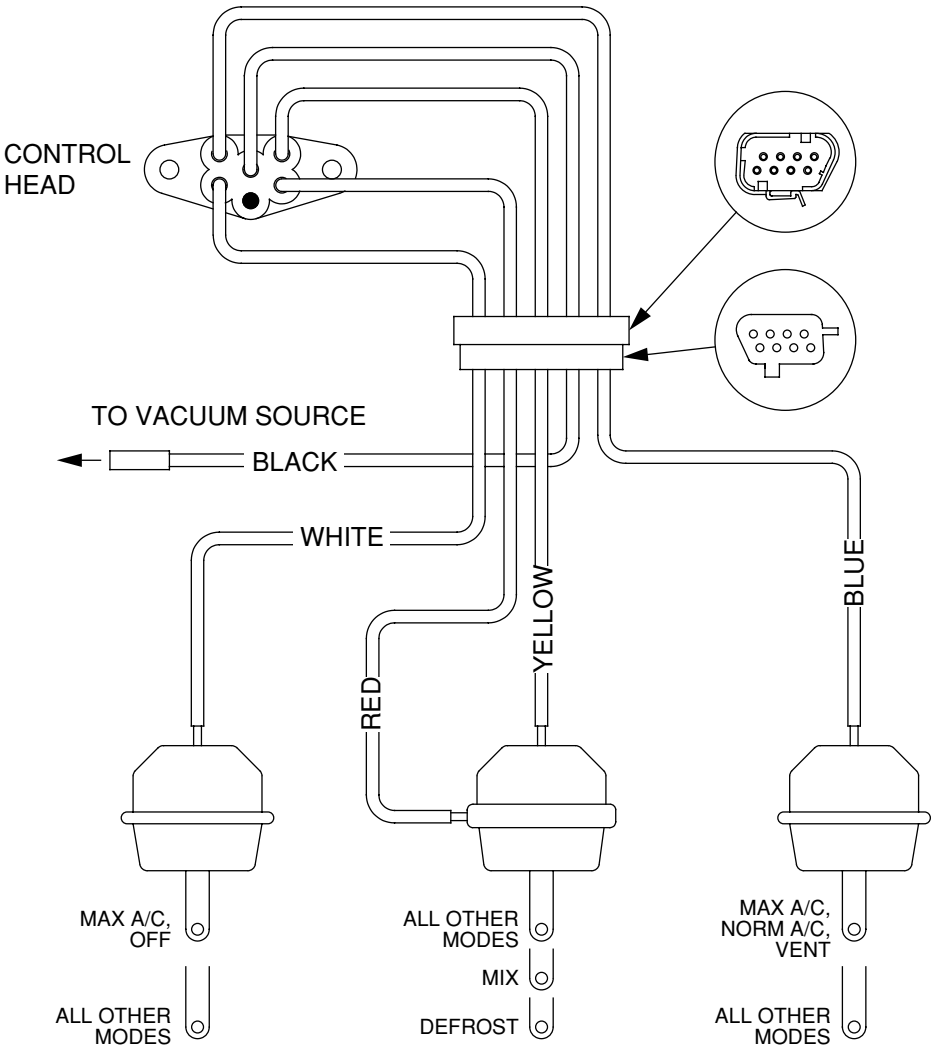
WIRING DIAGRAM

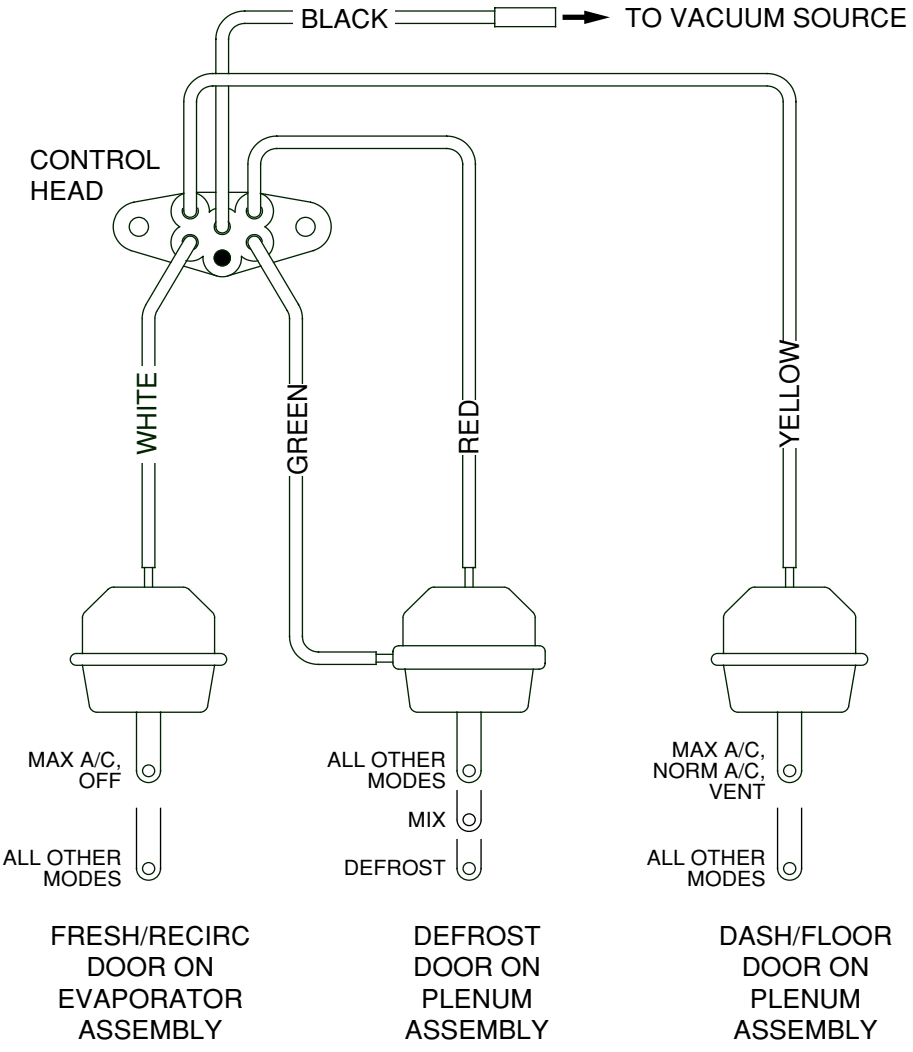
PAGE **E-50**

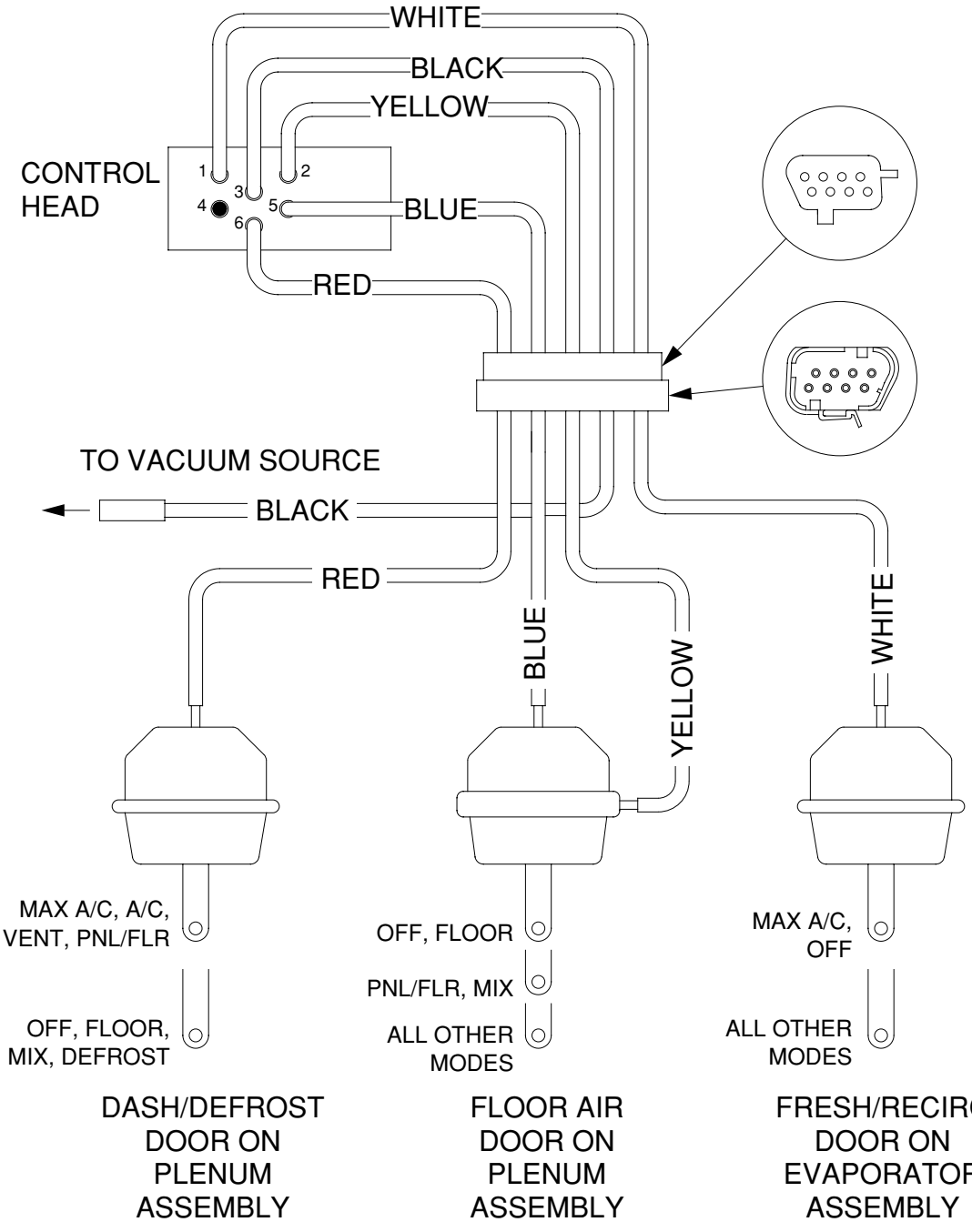
11/28/01



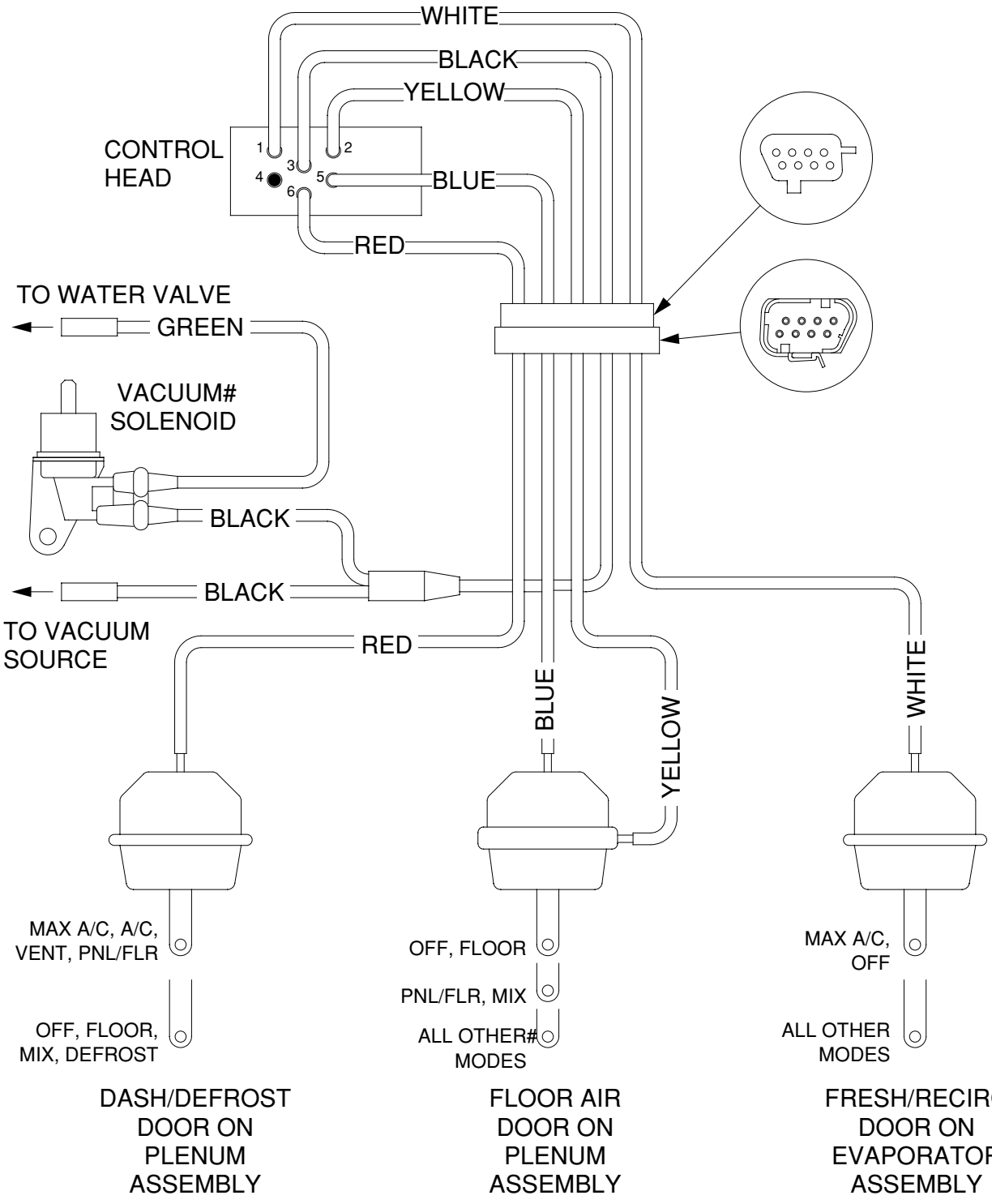
SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **WIRING DIAGRAM**	PAGE **E-52** 3/31/03


CONTROL HEAD
TO VACUUM SOURCE
BLACK
WHITE
RED
YELLOW
BLUE
MAX A/C, OFF
ALL OTHER MODES
ALL OTHER MODES
MIX
DEFROST
MAX A/C, NORM A/C, VENT
ALL OTHER MODES
FRESH/RECIRC DOOR ON EVAPORATOR ASSEMBLY
DEFROST DOOR ON PLENUM ASSEMBLY
DASH/FLOOR DOOR ON PLENUM ASSEMBLY


BLACK
TO VACUUM SOURCE
CONTROL HEAD
WHITE
GREEN
RED
YELLOW
MAX A/C, OFF
ALL OTHER MODES
ALL OTHER MODES
MIX
DEFROST
MAX A/C, NORM A/C, VENT
ALL OTHER MODES
FRESH/RECIRC DOOR ON EVAPORATOR ASSEMBLY
DEFROST DOOR ON PLENUM ASSEMBLY
DASH/FLOOR DOOR ON PLENUM ASSEMBLY

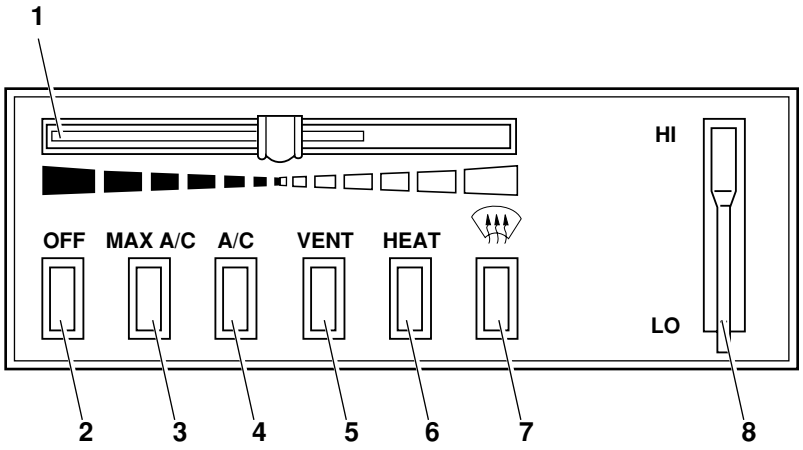


SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **VACUUM DIAGRAM**	PAGE **F-07** 7/28/97



SPECIFIC CLIMATE SYSTEMS, INC. 1200 WEST RISINGER ROAD FORT WORTH, TEXAS 76134 TEL. 817-293-5313	**MASTER SERVICE MANUAL** **VACUUM DIAGRAM**	PAGE **F-09** 7/28/97

OPERATING INSTRUCTIONS



OPERATING INSTRUCTIONS
RV DASH HEATER/AIR CONDITIONER

FUNCTIONS

1. ADJUST TO DESIRED TEMPERATURE

2. PREVENTS AIR FROM ENTERING THRU UNIT (FAN SHUTS OFF)

3. RECIRCULATED, REFRIGERATED AIR DIRECTED THRU DASH LOUVERS

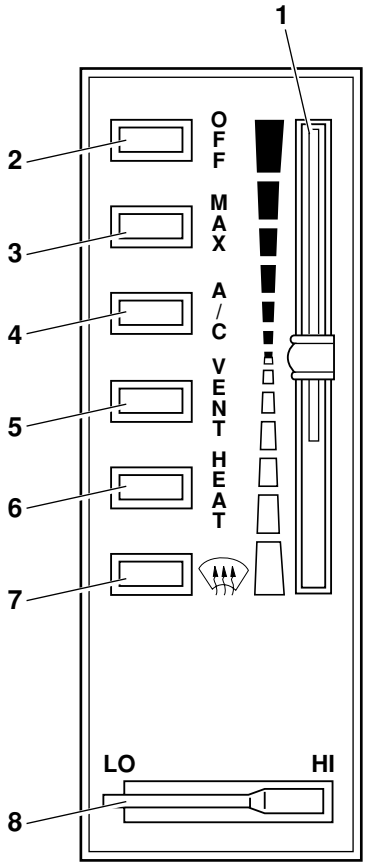
4. REFRIGERATED OUTSIDE AIR DIRECTED THRU DASH LOUVERS

5. OUTSIDE AIR DIRECTED THRU DASH LOUVERS

6. AIR DISCHARGED ON FLOOR

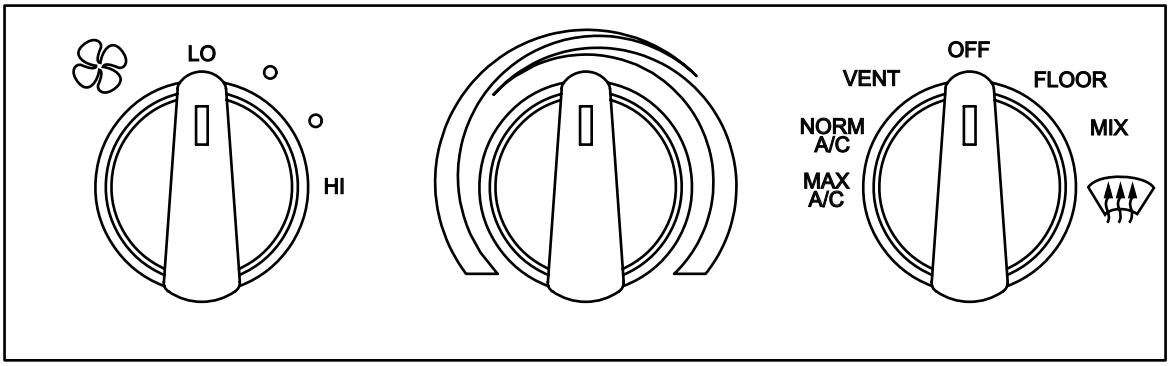
7. AIR DIRECTED TO WINDSHIELD FOR DEFROSTING AND DEFOGGING

8. ADJUST FAN SPEED (DOES NOT SHUT OFF)



REFERENCE SCS CONTROL 032-00054

OPERATING INSTRUCTIONS



FAN SPEED SWITCH | TEMPERATURE CONTROL SWITCH | MODE SELECTION SWITCH

For Maximum heating, move the MODE SELECTION SWITCH to **FLOOR**, rotate the TEMPERATURE CONTROL KNOB fully clockwise into the red scale, and move the FAN SWITCH clockwise to the highest fan speed. For reduced heating, adjust the FAN SWITCH and TEMPERATURE CONTROL SWITCH as required for maximum comfort.

To heat the interior of the vehicle and defrost the windshield at the same time, move the MODE SELECTION SWITCH to **MIX** and select the fan and temperature settings that provide the desired level of heating and defrosting. The compressor will operate in the **MIX** mode to help de-humidify the air if the outside temperature is above 32° F.

For maximum defrosting, select **DEFROST** ( ), rotate the TEMPERATURE CONTROL SWITCH clockwise, and select the highest fan speed. The compressor will operate in the **DEFROST** mode to help de-humidify the air if the outside temperature is above 32° F.

For maximum cooling, rotate the MODE SELECTION SWITCH to the **MAX A/C** position, rotate the TEMPERATURE CONTROL SWITCH fully counter clockwise into the blue scale, and select the highest fan speed. In **MAX A/C** mode, air is recirculated from the coach interior and the compressor will operate if the outside temperature is above 32° F.

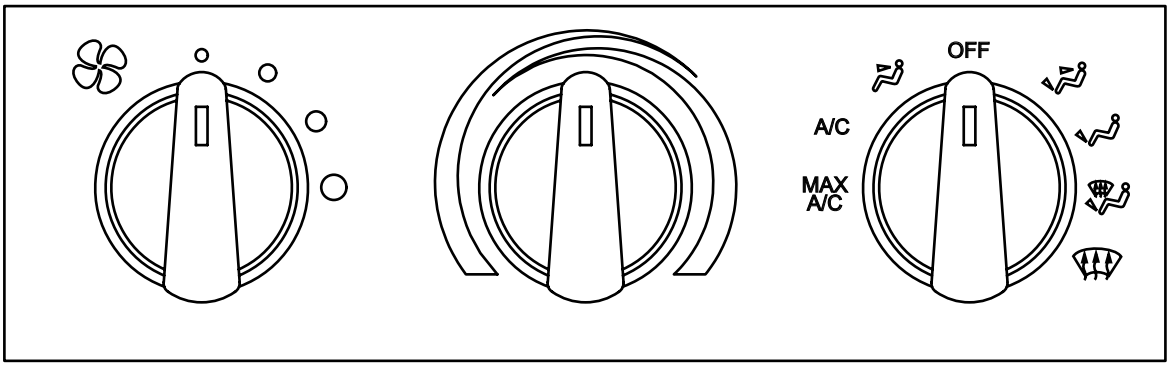
For cooling using outside air, select **NORM A/C**, adjust the FAN SPEED SWITCH and the TEMPERATURE CONTROL SWITCH for the desired comfort level. The compressor will operate in the **NORM A/C** mode if the outside temperature is above 32° F.

To ventilate the vehicle interior when air conditioning is not required, select **VENT** and adjust the FAN SWITCH and the TEMPERATURE CONTROL SWITCH for comfort.

To turn the system **OFF**, move the MODE SELECTION SWITCH to **OFF** position. This will shut off the fan and prevent air from entering the system.

REFERENCE SCS CONTROLS 032-00056
032-00193

OPERATING INSTRUCTIONS



FAN SPEED SWITCH | TEMPERATURE CONTROL SWITCH | MODE SELECTION SWITCH

For Maximum heating, move the MODE SELECTION SWITCH to the FLOOR position, rotate the TEMPERATURE CONTROL KNOB fully clockwise into the red scale, and move the FAN SWITCH clockwise to the highest fan speed. For reduced heating, adjust the FAN SWITCH and TEMPERATURE CONTROL SWITCH as required for maximum comfort.

To heat the interior of the vehicle and defrost the windshield at the same time, move the MODE SELECTION SWITCH to the MIX position and select the fan and temperature settings that provide the desired level of heating and defrosting. The compressor will operate in the MIX mode to help dehumidify the air if the outside temperature is above 32° F.

For maximum defrosting, select DEFROST, rotate the TEMPERATURE CONTROL SWITCH clockwise, and select the highest fan speed. The compressor will operate in the DEFROST mode to help dehumidify the air if the outside temperature is above 32° F.

For maximum cooling, rotate the MODE SELECTION SWITCH to the **MAX A/C** position, rotate the TEMPERATURE CONTROL SWITCH fully counter clockwise into the blue scale, and select the highest fan speed. In **MAX A/C** mode, air is recirculated from the coach interior and the compressor will operate if the outside temperature is above 32° F.

For cooling using outside air, select **A/C**, adjust the FAN SPEED SWITCH and the TEMPERATURE CONTROL SWITCH for the desired comfort level. The compressor will operate in the **A/C** mode if the outside temperature is above 32° F.

For cooling using outside air and flow directed to the dash and floor vents simultaneously, use the BI-LEVEL mode. The compressor will operate if the outside temperature is above 32° F.

To ventilate the vehicle interior when air conditioning is not required, select VENT and adjust the FAN SWITCH and the TEMPERATURE CONTROL SWITCH for comfort.

To turn the system **OFF**, move the MODE SELECTION SWITCH to **OFF** position. This will shut off the fan and prevent air from entering the system.

REFERENCE SCS CONTROLS 032-00058, 083-00222

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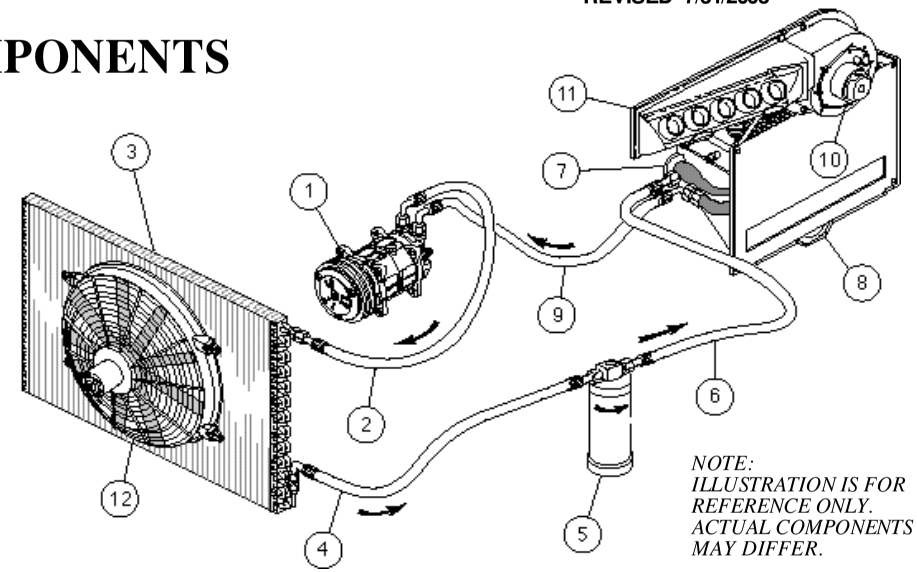
ALL WARRANTY REPAIR INVOLVING SCS COMPONENTS AND LABOR MUST BE PRE-APPROVED. CALL 1-800-275-7524 FOR AUTHORIZATION.

HAVE THE FOLLOWING INFORMATION AVAILABLE:
¥ CUSTOMER NAME AND DATE OF PURCHASE
¥ MAKE OF CHASSIS
¥ EVAPORATOR SERIAL NO. (LOCATED ON ITEM 8).
¥ CURRENT VEHICLE MILEAGE
¥ LAST 8 DIGITS OF VEHICLE V.I.N. NUMBER

DEFECTIVE PARTS MUST BE RETURNED FOR CREDIT WITHIN 30 DAYS.



NOTE: ILLUSTRATION IS FOR REFERENCE ONLY. ACTUAL COMPONENTS MAY DIFFER.

ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	ITEM 9	ITEM 10	ITEM 11	ITEM 12	OTHER ITEMS (NOT SHOWN)			
COMP-RESSOR	DISCH. HOSE	COND-ENSER	LIQUID HOSE	DRIER	LIQUID HOSE	EXP. VALVE	EVAP-ORATOR	SUCT. HOSE	BLWR. MOTOR	AIR PLENUM	AUX. FAN	HEATER VALVE	MISC.	CONT. PANEL	PRESS. SWITCH
FORD CHASSIS; H.R. ADMIRAL, ENDEAVOR, VACATIONER; MONACO LA PALMA; NEW STYLE (SMART MOTOR) (INDIANA AND OREGON PLANTS)															
FORD	FORD	FORD	FORD	FORD	085-00451	034-00029	086-00347	085-00452	030-00137	087-00253	NA	034-00131	NA	083-00222	FORD
FORD CHASSIS; H.R. ADMIRAL, ENDEAVOR, VACATIONER; MONACO LA PALMA; OLD STYLE (P.C. BOARD CONTROL) (INDIANA AND OREGON PLANTS)															
FORD	FORD	FORD	FORD	FORD	085-00451	034-00029	086-00347	085-00452	030-00004	087-00082	NA	034-00036	NA	032-00058	FORD
ROADMASTER CHASSIS; BEAVER SANTIUM (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00347	085-00523	030-00137	087-00253	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DIPLOMAT LE; NEW STYLE (SMART MOTOR) (INDIANA PLANT)															
094-00018	085-00562	040-00025	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DIPLOMAT LE; OLD STYLE (P.C. BOARD CONTROL) (INDIANA PLANT)															
094-00018	MON	040-00025	MON	054-00001	MON	034-00029	086-00347	MON	030-00004	087-00083	086-00319	034-00036	NA	032-00058	032-00067
ROADMASTER CHASSIS; DIPLOMAT; NEW STYLE (SMART MOTOR) (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00347	085-00523	030-00137	087-00260	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DIPLOMAT; OLD STYLE (P.C. BOARD CONTROL) (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00347	085-00523	030-00004	087-00259	086-00319	034-00036	NA	032-00058	032-00067
ROADMASTER CHASSIS; DYNASTY, EXECUTIVE, CUMMINS ISC ENGINE ; NEW STYLE (SMART MOTOR) (OREGON PLANT)															
094-00018	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	NA	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DYNASTY, EXECUTIVE; CUMMINS ISC ENGINE ; OLD STYLE (P.C. BOARD CONTROL) (OREGON PLANT)															
094-00018	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00004	087-00083	NA	034-00036	NA	032-00058	032-00067

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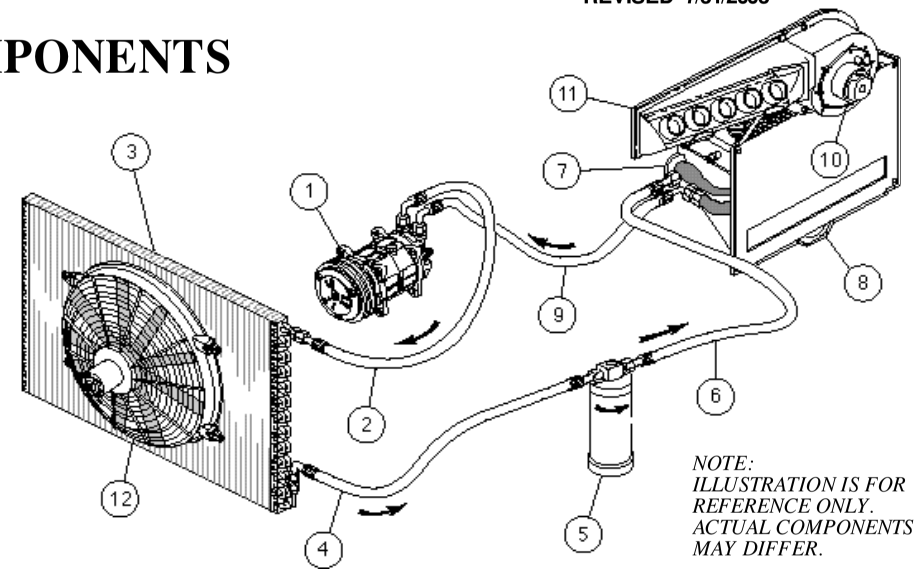

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ROADMASTER CHASSIS; DYNASTY, EXECUTIVE, CUMMINS ISM ENGINE ; NEW STYLE (SMART MOTOR) (OREGON PLANT)															
094-00169	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	NA	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DYNASTY, EXECUTIVE; CUMMINS ISM ENGINE ; OLD STYLE (P.C. BOARD CONTROL) (OREGON PLANT)															
094-00169	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00004	087-00083	NA	034-00036	NA	032-00058	032-00067
ROADMASTER CHASSIS; H.R. ENDEAVOR; NEW STYLE (SMART MOTOR) (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00359	085-00523	030-00120	087-00251	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; H.R. ENDEAVOR; OLD STYLE (P.C. BOARD CONTROL) (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00359	085-00523	030-00001	087-00141	086-00319	034-00036	NA	032-00058	032-00067
ROADMASTER CHASSIS; H.R. IMPERIAL; NEW STYLE (SMART MOTOR) (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00120	087-00251	NA	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; H.R. IMPERIAL; OLD STYLE (P.C. BOARD CONTROL) (INDIANA PLANT)															
094-00018	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00001	087-00141	NA	034-00036	NA	032-00058	032-00067
ROADMASTER CHASSIS; NEPTUNE, CAYMEN, 30 FT, 32 FT (OREGON PLANT)															
094-00018	085-00530	040-00025	085-00557	054-00019	085-00544	034-00029	086-00347	085-00556	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; NEPTUNE, CAYMEN (INDIANA AND OREGON PLANTS)															
094-00018	085-00530	040-00025	085-00531	054-00019	085-00544	034-00029	086-00347	085-00528	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; SCEPTOR; NEW STYLE (SMART MOTOR) (INDIANA PLANT)															
094-00018	085-00562	040-00025	MON	054-00001	MON	034-00029	086-00359	MON	030-00120	087-00251	086-00319	034-00131	NA	083-00222	032-00067

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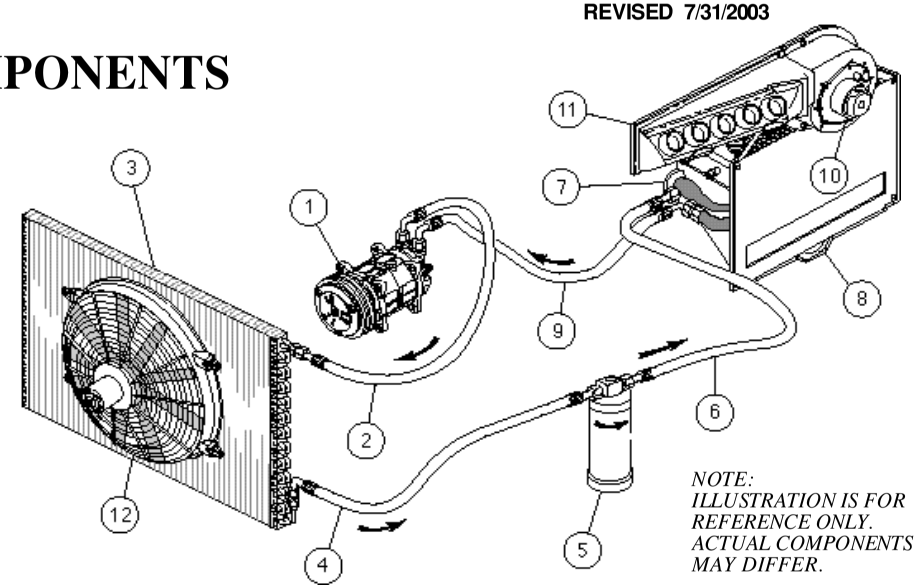

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ROADMASTER CHASSIS; SCEPTOR; OLD STYLE (P.C. BOARD CONTROL) (INDIANA PLANT)															
094-00018	MON	040-00025	MON	054-00001	MON	034-00029	086-00359	MON	030-00001	087-00141	086-00319	034-00036	NA	032-00058	032-00067
ROADMASTER CHASSIS; WINDSOR; NEW STYLE (SMART MOTOR) (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	NA	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; WINDSOR; OLD STYLE (P.C. BOARD CONTROL) (INDIANA PLANT)															
094-00018	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00004	087-00083	NA	034-00036	NA	032-00058	032-00067
WORKHORSE CHASSIS; ADMIRAL, H.R. ENDEAVOR, VACATIONER; NEW STYLE (SMART MOTOR) (INDIANA AND OREGON PLANTS)															
W-HORSE	W-HORSE	W-HORSE	W-HORSE	W-HORSE	085-00466	034-00029	086-00347	051-00357	030-00137	087-00253	W-HORSE	034-00131	NA	083-00222	W-HORSE
WORKHORSE CHASSIS; ADMIRAL, H.R. ENDEAVOR, VACATIONER; OLD STYLE (P.C. BOARD CONTROL) (INDIANA PLANT)															
W-HORSE	W-HORSE	W-HORSE	W-HORSE	W-HORSE	085-00466	034-00029	086-00347	051-00357	030-00004	087-00082	W-HORSE	034-00036	NA	032-00058	W-HORSE

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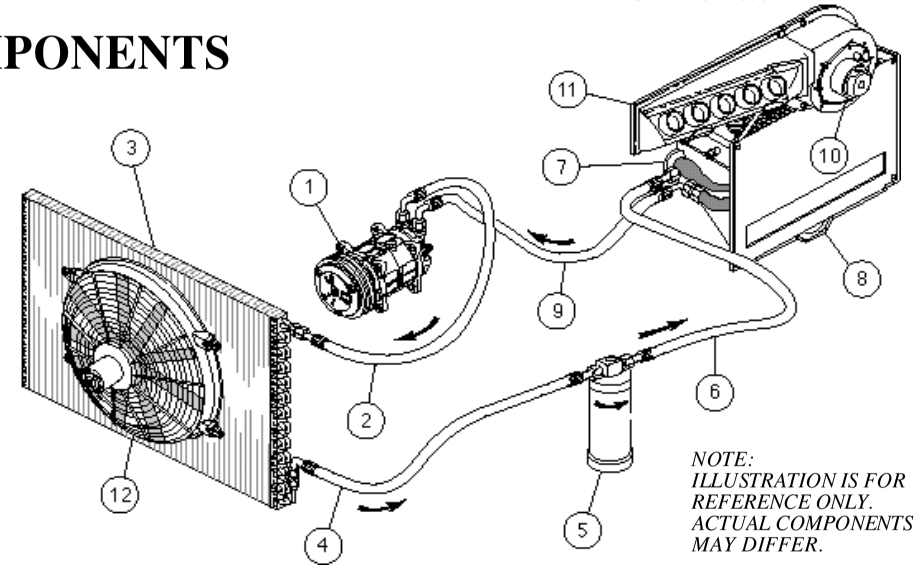
DEFECTIVE PARTS MUST BE RETURNED FOR CREDIT WITHIN 30 DAYS.



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COMP-RESSOR	DISCH. HOSE	COND-ENSER	LIQUID HOSE	DRIER	LIQUID HOSE	EXP. VALVE	EVAP-ORATOR	SUCT. HOSE	BLWR. MOTOR	AIR PLENUM	AUX. FAN	HEATER VALVE	MISC.	CONT. PANEL	PRESS. SWITCH
FORD CHASSIS; LA PALMA & HR ADMIRAL, ENDEAVOR, TRAVELER, VACATIONER (INDIANA AND OREGON PLANTS)															
FORD	FORD	FORD	FORD	FORD	085-00451	034-00029	086-00347	085-00452	030-00137	087-00253	NA	034-00131	NA	083-00222	FORD
ROADMASTER CHASSIS; BARON (INDIANA PLANT)															
094-00018	085-00530	040-00025	085-00561	054-00019	085-00544	034-00029	086-00347	085-00523	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; BEAVER SANTIUM (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00347	085-00523	030-00137	087-00253	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; CAMELOT, WINDSOR (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	NA	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DIPLOMAT (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00347	085-00523	030-00137	087-00260	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DYNASTY, EXECUTIVE, CUMMINS ISC ENGINE (OREGON PLANT)															
094-00018	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	NA	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DYNASTY, EXECUTIVE, CUMMINS ISM ENGINE (OREGON PLANT)															
094-00169	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	NA	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; HR ENDEAVOR (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00359	085-00523	030-00120	087-00251	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; HR IMPERIAL (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00120	087-00251	NA	034-00131	NA	083-00222	032-00067

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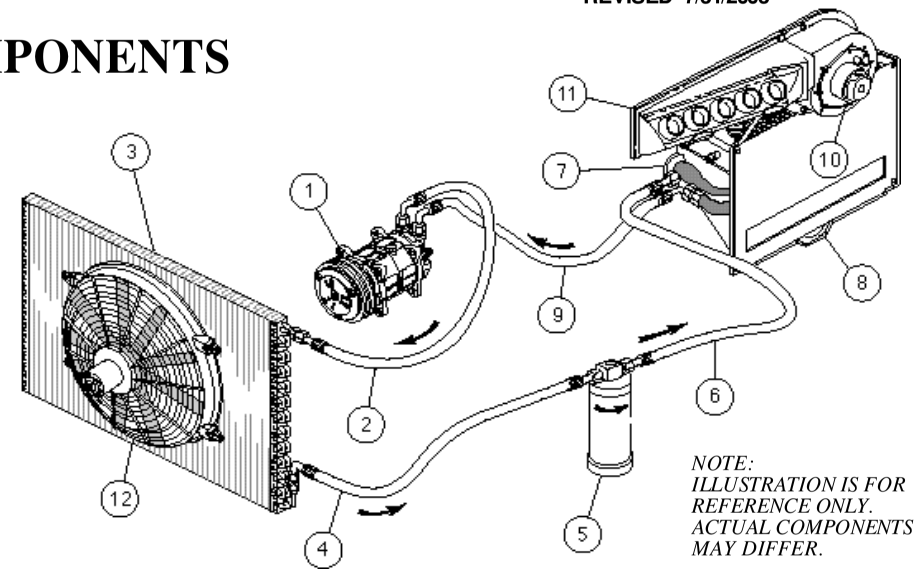

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ROADMASTER CHASSIS; NEPTUNE, CAYMEN 30 FT, 32 FT (OREGON PLANT)															
094-00018	051-00007	040-00025	085-00557	054-00019	085-00544	034-00029	086-00347	085-00578	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; NEPTUNE, CAYMEN, 34 FT - 38 FT (INDIANA AND OREGON PLANTS)															
094-00018	051-00007	040-00025	085-00531	054-00019	085-00544	034-00029	086-00347	085-00578	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; SCEPTOR (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00359	MON	030-00120	087-00251	NA	034-00131	NA	083-00222	032-00067
WORKHORSE CHASSIS; ADMIRAL, ENDEAVOR, MONARCH, TRAVELER, VACATIONER (INDIANA AND OREGON PLANTS)															
W-HORSE	W-HORSE	W-HORSE	W-HORSE	W-HORSE	085-00466	034-00029	086-00347	051-00357	030-00137	087-00253	W-HORSE	034-00131	NA	083-00222	W-HORSE

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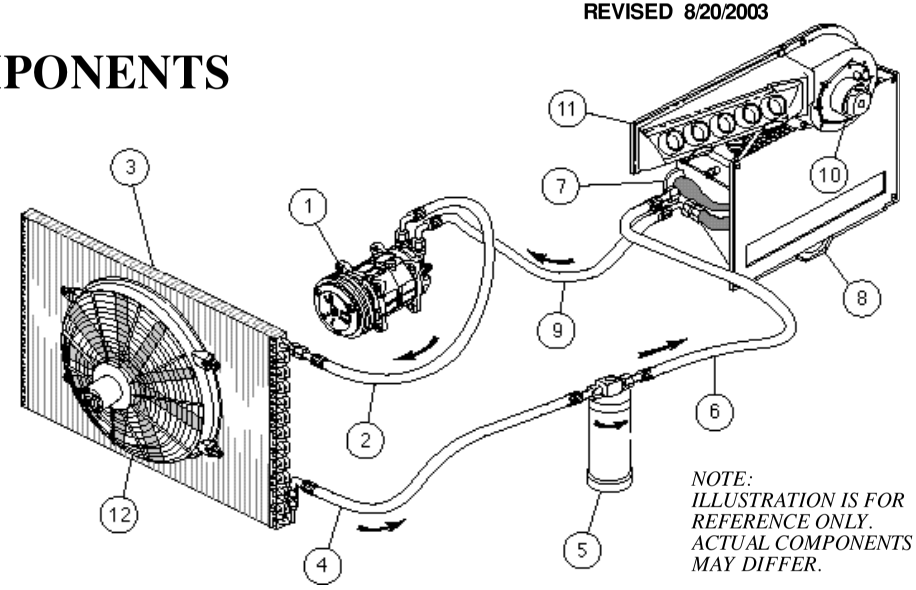

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FORD CHASSIS; ADMIRAL, MONARCH, TREK, TRAVELLER (OREGON PLANT)															
FORD	FORD	FORD	FORD	FORD	085-00451	034-00029	086-00347	085-00452	030-00120	087-00251	NA	034-00131	NA	083-00222	FORD
FORD CHASSIS; LA PALMA, VACATIONER (INDIANA PLANT)															
FORD	FORD	FORD	FORD	FORD	085-00451	034-00029	086-00347	085-00452	030-00137	087-00253	NA	034-00131	NA	083-00222	FORD
ROADMASTER CHASSIS; AMBASSADOR, KNIGHT 30FT. - 34FT. (INDIANA PLANT)															
094-00018	085-00530	040-00025	085-00531	054-00019	085-00544	034-00029	086-00347	085-00528	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; AMBASSADOR, KNIGHT 38 FT. (INDIANA PLANT)															
094-00018	085-00530	040-00025	085-00561	054-00019	085-00544	034-00029	086-00347	085-00523	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; BARON 38 FT (INDIANA PLANT)															
094-00018	085-00530	040-00025	085-00561	054-00019	085-00544	034-00029	086-00347	085-00523	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; BEAVER SANTIUM (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00347	085-00523	030-00137	087-00253	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; CAMELOT, WINDSOR (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	MON	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; CHEETAH (OREGON PLANT)															
094-00165	MON	040-00025	052-00038	054-00011	MON	034-00029	086-00359	MON	030-00120	087-00251	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; DYNASTY, EXECUTIVE CUMMINS ISC ENGINE (OREGON PLANT)															
094-00018	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	MON	034-00131	NA	083-00222	032-00067

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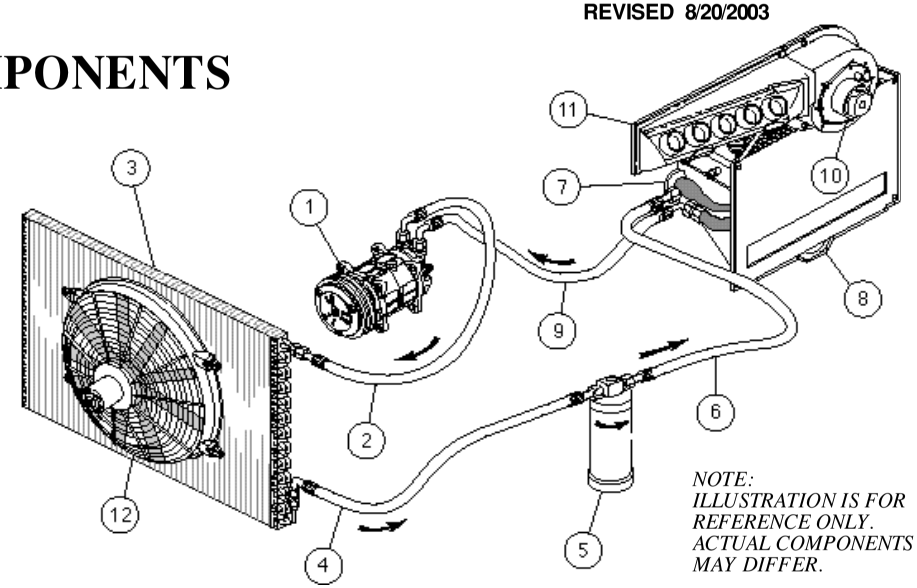

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ROADMASTER CHASSIS; DYNASTY, EXECUTIVE CUMMINS ISM ENGINE															
094-00169	MON	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00137	087-00252	MON	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; ENDEAVOR (INDIANA PLANT)															
094-00018	085-00455	040-00025	052-00038	054-00011	085-00552	034-00029	086-00359	085-00523	030-00120	087-00251	086-00319	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; IMPERIAL (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00347	MON	030-00120	087-00251	MON	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; NEPTUNE, CAYMAN 30 FT, 32 FT (OREGON PLANT)															
094-00018	085-00530	040-00025	085-00557	054-00019	085-00544	034-00029	086-00347	085-00556	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; NEPTUNE, CAYMAN 34 FT, 36 FT, 38 FT (OREGON PLANT)															
094-00018	085-00530	040-00025	085-00531	054-00019	085-00544	034-00029	086-00347	085-00528	030-00137	087-00253	086-00412	034-00131	NA	083-00222	ITEM 5
ROADMASTER CHASSIS; SCEPTOR (INDIANA PLANT)															
094-00018	085-00562	MON	MON	054-00001	MON	034-00029	086-00359	MON	030-00120	087-00251	MON	034-00131	NA	083-00222	032-00067
ROADMASTER CHASSIS; SIGNATURE CUMMINS ISM, ISX ENGINE (OREGON PLANT)															
094-00169	MON	MON	MON	054-00001	MON	034-00032	041-00173	MON	086-00420	NA	MON	034-00131	NA	083-00301	032-00067
ROADMASTER CHASSIS; SIGNATURE DETROIT SERIES 60 ENGINE (OREGON PLANT)															
094-00187	MON	MON	MON	054-00001	MON	034-00032	041-00173	MON	086-00420	NA	MON	034-00131	NA	083-00301	032-00067
WORKHORSE CHASSIS; ADMIRAL, MONARCH, TREK, TRAVELLER (OREGON PLANT)															
W-HORSE	W-HORSE	W-HORSE	W-HORSE	W-HORSE	085-00466	034-00029	086-00347	051-00357	030-00120	087-00251	W-HORSE	034-00131	NA	083-00222	W-HORSE

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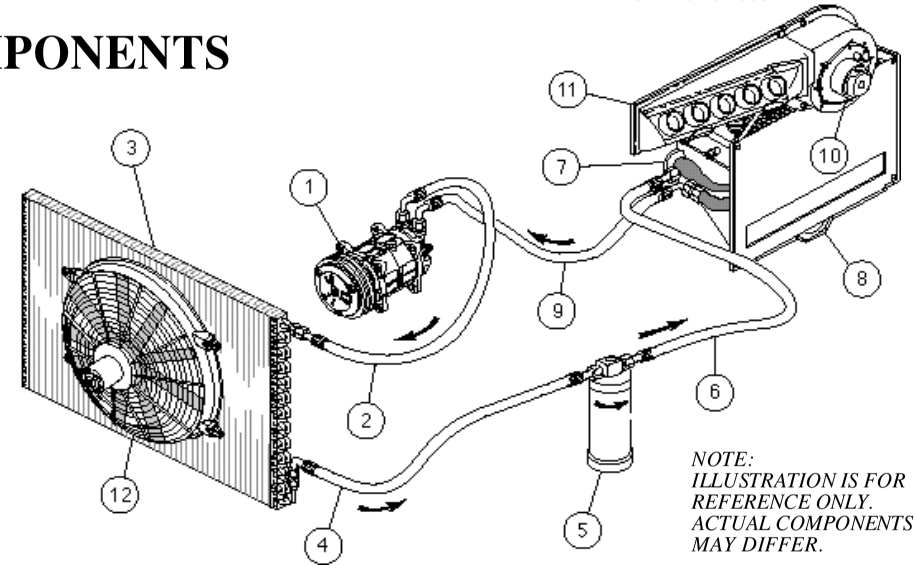

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WORKHORSE CHASSIS; LA PALMA, VACATIONER (INDIANA PLANT)															
W-HORSE	W-HORSE	W-HORSE	W-HORSE	W-HORSE	085-00466	034-00029	086-00347	051-00357	030-00137	087-00253	W-HORSE	034-00131	NA	083-00222	W-HORSE

January 17, 1997

To All Specific Climate Systems Customers

SUBJECT: Warranty Return Procedures.

In order to establish a standard procedure for the return of defective parts for warranty reimbursement, the following will apply.

LIMITED WARRANTY POLICY

A. Specific Climate Systems warrants each new dash heat/air conditioning system installed by a recreational vehicle manufacturer to be free from defects in factory workmanship or materials for as long as the OE chassis manufactures warranty is valid up to a maximum of Twelve months or 12,000 miles whichever occurs first.

WARRANTY CREDITS MUST NOT BE DEDUCTED FROM CUSTOMER REMITTANCES. Warranty Reimbursement credit will be issued to purchasers of Specific Climate Systems products on a timely basis after the parts have been received from the company authorized to perform warranty repairs if:

1. The part proves to be defective.
2. The part is within the covered time/mileage limitations as stated on the initial warranty registration form.
3. The warranty procedures are adhered to as described herein.

B. This Limited Warranty does not cover any product which has been subject to misuse, neglect, alteration, accident, or improper maintenance. This warranty does not cover material or labor used in normal maintenance services or the replacement of service items. Normal wear and tear of service items shall not be considered defects under this Warranty.

This warranty is in lieu of other warranties, expressed or implied including any implied warranty of merchantability and no person is authorized to assume for Specific Climate Systems any other liability in connection with sale of this product.

SHIPMENT DAMAGE IS THE RESPONSIBILITY OF THE CARRIER. NO WARRANTY CREDITS OR REPLACEMENT WILL BE CONSIDERED FOR CLAIMS MARKED "DAMAGED IN SHIPMENT". ALL SUCH CLAIMS MUST BE MADE DIRECT TO THE CARRIER CONCERNED.

C. As an expressed condition of this warranty the manufacturer, selling dealer, and the owner must ensure that the owner's warranty registration notice accompanying all units is completed and mailed to Specific Climate Systems within ten (10) days after the initial sale of the RV containing the unit to the end user. The manufacturer will provide this information in accordance with that company's procedures when a warranty registration notice is not supplied with the unit.

D. THIS LIMITED WARRANTY DOES NOT INCLUDE CONSEQUENTIAL DAMAGES SUCH AS TRANSPORTATION COSTS, HOTELS, MEALS, TOWING AND OTHER EXPENSES AND *SPECIFIC CLIMATE SYSTEMS* SHALL NOT BE RESPONSIBLE FOR ANY SUCH DAMAGES. *SPECIFIC CLIMATE SYSTEMS* DOES NOT MAKE AND DOES NOT AUTHORIZE ANY PERSON TO MAKE FOR IT ANY WARRANTY OTHER THAN THE FOREGOING WARRANTY. SUCH OTHER WARRANTIES, IF ANY, AS MAY BE IMPOSED OR IMPLIED BY LAW ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN WARRANTY.

E. Upon determining that a defect exists in a product the customer will contact The SCS technical service agent and request a Return Authorization (RA) at 1-800-275-7524. The following information will be provided to the SCS Technical Service Agent and recorded on the RA form.

1. The part number (both SCS number and Customer number) of the defective part.

2. The model number, serial number, build date, and original date of purchase of the affected vehicle.

3. A description of the failure and user's or customers evaluation of the cause of failure.

4. The hourly labor rate agreed to by both parties extended by the pre-approved time allowance, see attached schedule, for the service work to be performed. Example:

   Compressor replacement at $35.00 per hour X 2.2 hrs. = $77.00

SCS will prepare and transmit to the customer a Return Authorization (RA).

Upon receipt of the RA the customer will return the defective part by best means accompanied by the following documents.

1. A copy of the RA authorizing the return.

2. A copy of the repair order or work order detailing any problem with the affected part and the work performed. This repair order must indicate the servicer's established wholesale hourly labor rate. When such labor rate is not indicated, Specific Climate Systems will reimburse servicer at an hourly rate of $35.00 based on Specific Climate Systems' published labor repair time standards in effect at the time of the service.

3. A warranty tag, either one supplied by Specific Climate Systems or one supplied by the company submitting the claim, must be attached to each item returned with the following minimum information.

    a. The SCS part number of the item being returned.

    b. A description of the item.

    c. The name of the company performing the repair or replacement.

    d. A description of the problem or reason for the return of the item. The word "defective" should not be used. We need to know how it is defective. The applicable Specific Climate Systems Owner's Warranty Registration number or the serial number of the system from which the item came.

    e. The name of the company submitting the claim.

Specific Climate Systems will provide at the customer's request SCS/Frigette warranty claim forms to use for this purpose.

F. CARE AND HANDLING OF WARRANTY PARTS

1. Compressors: Defective compressors returned because of internal failure, leaks or other imperfections must have service valves attached and ports sealed. The seals for the warranty compressor can be acquired from the new compressor being in stalled on the vehicle. Return of compressors without ports sealed will void any warranty. Compressors must be packaged so as to preclude any subsequent dam age. The same care should be taken in returning a compressor for warranty as you would in sending one to a customer. Any damage due to improper packaging of returned compressors will void the warranty. There is no warranty on any compres sor which has been disassembled or modified.

2. Expansion Valves and Thermostats: Expansion valves and thermostats received with broken capillary tubes will not be accepted for credit or replacement. Plastic thread protective caps from the new valve should be inserted on the proper fittings of the defective valve before shipment back for warranty.

3. Evaporators and Coils: When returning defective coils, the protective caps from the new replacement coil must be used on the coil being returned. The coil must be packaged in such a way as to avoid shipment damage.

4. Shipping Procedures:

a. All warranty Claims and defective parts must be returned to the war ranty department in Fort Worth within sixty (60) days of repair date.

b. Defective parts sent in for warranty are to be shipped prepaid to Specific Climate Systems by UPS or parcel post. Specific Climate Systems will reimburse all freight charges. Claims for lost or damaged merchandise on any shipment is the responsi bility of the purchaser. Any lost or damaged claims must be filed with the carrier.

c. Pack defective parts securely for shipment to factory. Shipments via motor freight should be classified on the bill of lading as "Used Auto Parts-Charges Guaranteed," Item N, NMFC 18630-3 CL 70. All shipments should be made on a prepaid basis via the least expensive means.

d. Return defective parts within 60 days of their removal to Specific Climate Systems, 1200 West Risinger Road, Fort Worth, Texas. Attention: Warranty Department.

5. All Products:

a. Any part found by the factory, to be satisfactory and within approved manufacturing standards will not qualify for warranty credit.

b. Any part damaged due to improper installation, abuse, misuse, or improper removal will not qualify as warranty.

c. Any part damaged in shipment to Specific Climate Systems will not qualify as warranty. Carefully pack all parts being returned to protect against unrecoverable freight damage. When Styrofoam "peanuts" are used as a packing agent, parts will be wrapped in paper or plastic to preclude "peanuts" getting into the parts.

d. Any part not furnished by Specific Climate Systems as a component of a complete unit or as a replacement part will not qualify as warranty.

e. Any product that does not qualify for warranty credit will be disposed of at the discretion of Specific Climate Systems, i.e.:

1. Parts may be returned to claimant freight collect.

2. Notice may be sent to distributer requesting disposition of the material within 30 days from date of notice, after which time no adequate response is received from claimant, parts may be scrapped by Specific Climate Systems.

LABOR ALLOWANCE SCHEDULE

	Diagnosis	Evacuate, Recharge, Leak & Perf. Test	Std. Labor Allowance	Total
Blower Wheel/Housing	0.3	0	0.8	1.1
Cable, Bowden	0.3	0	0.7	1.0
Clutch	0.3	0	0.7	1.0
Compressor	0.3	0.9	1.0	2.2
Compressor Gasket	0.3	0.9	1.3	2.5
Compressor Seal Assembly	0.3	0.9	1.0	2.2
Compressor Valve Plate	0.3	0.9	1.3	2.5
Condenser	0.3	0.9	0.9	2.1
Condenser Fan	0.3	0	0.5	0.8
Crankshaft Pulley	0.3	0	0.5	0.8
Evaporator Assy	0.3	0.9	1.5	2.7
Evaporator Coil	0.3	0.9	1.5	2.7
Idler Pulley	0.3	0	0.2	0.5
Heater Coil	0.3	0	1.5	1.8
Motor (Blower)	0.3	0	1.0	1.3
Mount, Compressor	0.3	0	1.5	1.8
Plenum	0.3	0	1.5	1.8
Receiver Drier(Leaking only)	0.3	0.9	0.5	1.7
Refrigerant Hose(Replace)	0.3	0.9	0.6	1.8
Refrigerant Hose(Splice)	0.3	0.9	0.4	1.6
Switch, Blower, Relay, Resistor, PC Boards, etc.	0.3	0	0.5	0.8
Switch, Pressure	0.3	0.9	0.5	1.7
Thermostat	0.3	0	0.5	0.8
Vacuum Motor	0.3	0	0.5	0.8
Expansion Valve	0.3	0.9	0.5	1.7
Water Valve	0.3	0	0.5	0.8
Wiring Harness (Short)	0.3	0	0.5	0.8
Refrigerant Recovery & Recycle (Covered under Evacuate. Recharge Leak etc.)				
Flush	0	0	0.5	0.5

All labor charges not listed above must be approved in advance by an authorized officer of Specific Climate Systems or SCS/Frigette.

R134A refrigerant will be reimbursed to a maximum of 4 lbs. at the prevailing rate at the time of the repair or a maximum rate of $ 4.00 per pound.