Specific Climate Systems
RV Division

DEALER'S SERVICE
&
PARTS MANUAL
for
WINNEBAGO

HEATER/AIR CONDITIONER/DEFROSTER COMPONENTS

MANUFACTURED BY

Specific Climate Systems
RV Division

TECHNICAL SERVICE
1-800-275-7524

CUSTOMER SERVICE
1-800-545-6341

1200 West Risinger Road
Fort Worth, Texas 76134
817-293-5313

LIT. PART NO.
057-00272
February/2002

EVAPORATOR ASSEMBLY (R134-a)
SCS/FRIGETTE #090-0075
WINNEBAGO #113245-01-000,
H-BODY AUXILIARY SYSTEM (V-W CHASSIS)

ITEM NO.	WINNEBAGO PART NO.	SCS/FRIGETTE PART NO.	DESCRIPTION	QTY
1	113245-01-717	062-0139	Top, Case	1 ea.
2		045-0023	Insulation, Case Top	1 ea.
3	113245-01-705	041-0034	Coil, Evaporator	1 ea.
4		045-0156	Insulation, Case Bottom	1 ea.
5	113245-01-716	062-0604	Bottom, Case	1 ea.
6	113245-01-713	045-0173	Screen, Condensation	1 ea.
7	113245-01-714	062-0164	Pin, Retainer, Screen	6 ea.
8	113245-01-703	062-0142	Outlet, Case	1 ea.
9	113245-01-701	062-0027	Snap-Pin, Case	6 ea.
10		045-0155	Cushion, Motor Wrap	1 ea.
11	113245-01-719	083-0236	Blower Motor & Wheels, Balanced Assy	1 ea.
12	113245-01-706	034-0026	Valve, Expansion	1 ea.
13		022-0007	Clamp, Bulb	1 ea.
14		020-0020	Bolt, 6MM x 55MM	2 ea.
15	113245-01-712	050-0769	Fitting	1 ea.
16	103930-17-702	045-0127	Gasket, O-Ring, #10	2 ea.
17	113245-01-710	045-0128	Gasket, O-Ring, #12	2 ea.
18	113245-01-711	045-0129	Gasket, O-Ring, #6	4 ea.
19	113245-01-718	051-0002	Hose, Drain, 1/2" x 6"	2 ea.
20	113245-01-720	051-0093	Hose, Kazoo, 1" x 2"	2 ea.
21	113245-01-709	085-0116	Hose, #10	1 ea.
22	113245-01-708	085-0115	Hose, #6	1 ea.
23		045-0009	Insulation, Cork/Tar	3 ft.

PARTS ILLUSTRATION ON NEXT PAGE

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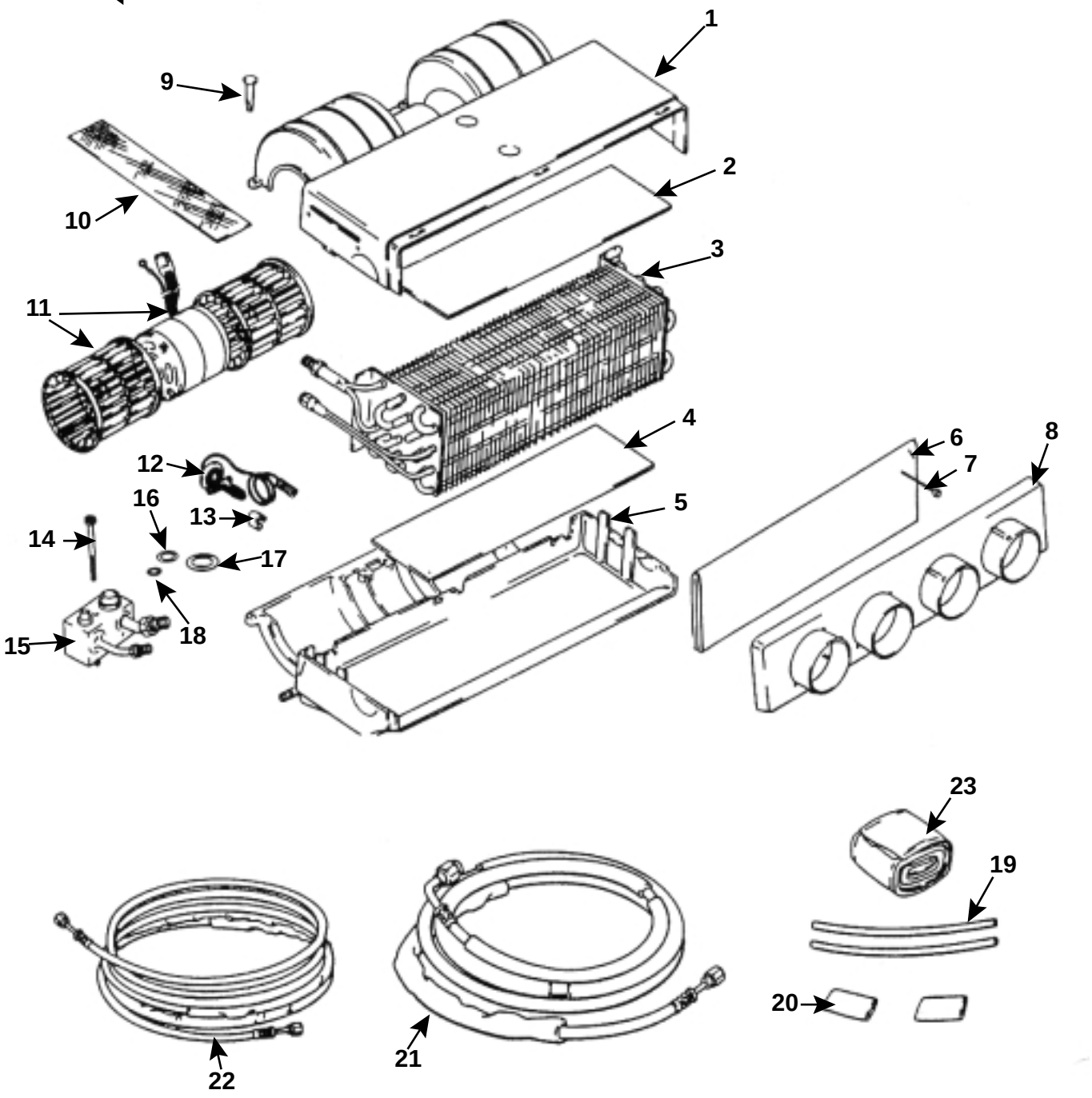
SCS/FRIGETTE #090-0075
WINNEBAGO #113245-01-000,
H-BODY AUXILIARY SYSTEM (V-W CHASSIS)

PARTS LIST ON PREVIOUS PAGE



ORIGIN OF COMPONENTS & WARRANTY RESPONSIBILITY

SCS/FRIGETTE manufactures components (not complete systems) for Winnebago air conditioners. Depending on the chassis manufacturer and type of vehicle, the percentage of SCS/FRIGETTE's content can vary. Proper identity of the components manufacturer is essential for satisfactory sourcing of replacement parts and warranty responsibility.
In order to facilitate the identification of the components, the following information is provided:

A/C-HEAT - DEF COMPONENTS

CHASSIS MFG	A/C, HEAT, DEF UNIT, PLENUM, AND CONTROLS	LIQUID AND SUCTION HOSES	CONDENSER	CONDENSER FAN	DISCHARGE HOSE	RECEIVER/ DRIER	COMPRESSOR AND MOUNT/DRIVE
WORKHORSE	SCS/FRIGETTE	SCS/FRIGETTE	WORKHORSE	WORKHORSE	WORKHORSE	WORKHORSE	WORKHORSE
GM 1998-99 P32 CHASSIS	SCS/FRIGETTE	SCS/FRIGETTE	GM	GM	GM	GM	GM
GM 1998-99 P12 CHASSIS	SCS/FRIGETTE	SCS/FRIGETTE	GM	--	GM	SCS/FRIGETTE	GM
GM Gas & Diesel 1994-97	SCS/FRIGETTE	SCS/FRIGETTE	GM	GM	GM	GM	GM
GM Gas 1993 & Earlier	SCS/FRIGETTE	SCS/FRIGETTE	GM	GM	GM	GM	GM
GM Diesel 1993 & Earlier	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE
Ford	SCS/FRIGETTE	SCS/FRIGETTE	FORD		FORD	FORD	FORD
Oshkosh	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	OSHKOSH
Freight liner	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	FREIGHTLINER
Spartan	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SCS/FRIGETTE	SPARTAN
Ford 1994 Van Conversion	SCS/FRIGETTE Note 1	SCS/FRIGETTE Note 1	FORD		FORD	FORD	FORD
VW H-Body	SCS/FRIGETTE Note 2	SCS/FRIGETTE Note 2	VW	VW	VW	VW	VW

Note 1 Rear, Under floor Heat/Cool Unit. Short refrigerant hoses to connect with Ford A/C - Prep Package.
Note 2 Overhead Auxiliary 134-a A/C System, Suction and discharge hoses provided to connect (near front system expansion valve) to VW front unit.

REFRIGERANT CHANGE INFORMATION (R134-a)

R134-a systems must be charged with a predetermined amount of refrigerant; the sight-glass CANNOT be used for accurate charging information. The following chart provides total system requirements:

WORKHORSE	**32 oz.**	**FORD**	**32 oz.**	**FREIGHTLINER**	**40 oz.**	**VW H-BODY**	39 **oz.**
GM	**32 oz.**	**OSHKOSH**	**40 oz.**	**SPARTAN**	**40 oz.**	**1994 FORD VAN CONVERSION**	**66 oz.**

DIAGNOSING ABNORMAL OPERATING CONDITIONS

NOTE: Wherever this symbol (*****) appears in **REMEDY** column it automatically indicates that all refrigerant be removed, a new receiver-drier be installed, the system be evacuated with a vacuum pump and charged with new refrigerant.

CONDITION	INDICATES	REMEDY
A. Suction pressure above normal. Discharge pressure too high.	1. Air in system **OR** 2. Overcharge of refrigerant **OR** 3. Dirty or plugged condensers.	1. Remove refrigerant charge (vacuum pump), recharge system and replace receiver drier. * 2. Remove some refrigerant to bring pressure to normal. 3. Clean bugs and dirt from condenser coil.
B. Suction pressure low. Discharge pressure low or normal.	1. Low refrigerant charge.	1. Determine cause of loss of refrigerant. Remove refrigerant and repair leak in system. *
C. Suction line frosted or sweating. Suction pressure too high. Discharge pressure too low.	1. Expansion valve stuck open **OR** 2. Feeler bulb not making proper contact with suction line. 3. Defective reed valves in compressor	1. Replace expansion valve. * 2. Clean suction line surface and reinstall feeler bulb so it makes good contact. 3. Repair or replace compressor. *
D. Erratic Operation, suction pressure may drop into vacuum. Suction pressure low. Discharge pressure too low.	1. Expansion valve stuck close **OR** 2. Moisture in system freezing at expansion valve. **OR** 3. Expansion valve feeler bulb lost charge.	1. Check expansion valve for proper operation 2. Remove refrigerant charge (vacuum pump), recharge system and replace receiver drier. * **DO NOT** replace expansion valve. 3. Replace expansion valve. *
E. Compressor sweats or frosts.	1. Expansion valve stuck open.	1. Replace expansion valve. *
F. Suction line too cool or sweating.	1. Expansion valve stuck open.	1. Replace expansion valve. *
G. compressor belts slip at idle speed.	1. Overcharge of refrigerant **OR** 2. Condenser dirty 3. Belt loose	1. Remove excess refrigerant. 2. Clean condenser coil, 3. Adjust belt.
H. Frosting or cold spots on refrigerant lines or hoses.	1. Indicates restriction or plugged condition.	1. Remove restriction or replace component. *
I. Condenser warm at top, cool at bottom.	1. Expansion valve closed or restriction in high side.	1. Remove restriction or replace.
J. Expansion valve frosted and coil warm.	1. Moisture freezing at expansion valve.	1. Remove refrigerant. *

LOUVER TEMPERATURE vs RELATIVE HUMIDITY

THE CHART TO THE RIGHT ILLUSTRATES THE EFFECTS OF HUMIDITY ON A/C PERFORMANCE. LISTED ARE THE LOUVER TEMPERATURES THAT CAN BE EXPECTED FOR CLASS A MOTOR HOMES. TO PERFORM A CHECK OF LOUVER TEMPERATURES, PLACE THE SYSTEM'S CONTROLS IN "NORMAL A/C" (ROTARY CONTROLS OR "AC" (PUSH BUTTON CONTROLS). MEASURE THE TEMPERATURE ENTERING THE COIL THRU THE FRESH AIR INLET; THIS WILL BE THE AMBIENT TEMPERATURE LISTED ON THE TOP OF THE CHART. RUN THE ENGINE AT 1500 RPM AND MEASURE THE AIR TEMPERTURE AT ONE TO THE CENTER 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).

		AMBIENT TEMPERATURE				
		60	70	80	90	100
RELATIVE HUMIDITY	10%	*	*	38	48	58
	20%	*	*	39	49	59
	30%	*	*	45	49	63
	40%	*	39	48	53	68
	50%	*	42	53	57	73
	60%	*	46	57	60	79
	70%	*	49	61	67	82
	80%	39	52	64	71	85
	90%	42	55	68	74	88
	100%	46	57	71	77	90

*** VALUES IN THE SHADED AREA SUBJECT TO FLUCTUATION DUE TO CYCLING OF THE COMPRESSOR**