AC20 Parts List

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Compressor

Control Box

Heat Exchanger

Panels and Liner

Wiring Diagrams

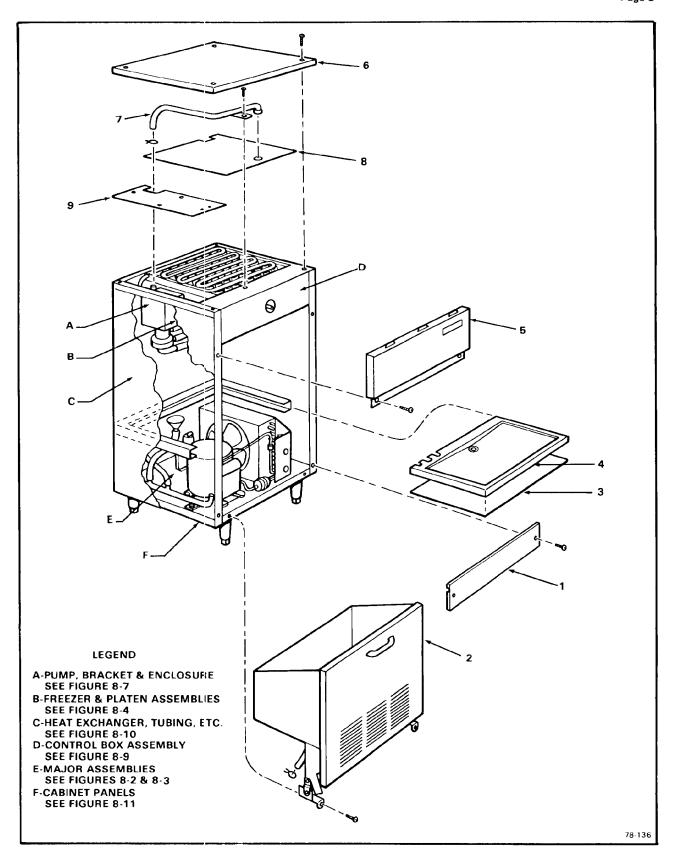


Figure 8-1. AC-20 Cabinet.

Figure 8-1. AC-20 Cabinet.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	40.00.01:		
	AC-20 Cabinet	No Number	1
1	Plate, Kick (C.R.S. Painted)	A25708-001	1
	Plate, Kick (Stainless Steel)	A25708-002	1
	attaching parts, Index 1		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	2
	* * *		
2	Door/Bin Assembly, Lower Front (C.R.S. Painted)	A25717-001	1
	Door/Bin Assembly, Lower Front (Stainless Steel)	A25717-002	1
	Attaching parts, Index 2		
]	Clamp, Hose 13/16-inch O.D.	02-1338-00	1
	Screw, No. 1/4-20 x 1/2 T/C Hex Hd	03-0571-00	2
	* * *		<u> </u>
3	Retainer, Heat - Bottom	A25804-001	1
	* * *		
4	Retainer, Heat - Foamed	02-2237-01	1
	* * *		
5	Door Assembly, Upper Front (C.R.S Painted)	A25709-001	1
	Door Assembly, Upper Front (Stainless Steel)	A25709-002	1
į	attaching parts, Index 5		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	2
	* * *		
6	Panel, Top (C.R.S. Painted)	A25704-001	1
	Panel, Top (Stainless Steel)	A25704-002	1
	attaching parts, Index 6		
	Screw, No. 8 x 1-1/4 S/T Flat Hd	03-1419-09	4
	* * *		•
			<u> </u>

Figure 8-1. AC-20 Cabinet. (Cont'd.)

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
7	Tube, Defrost attaching part, Index 7	A25796-001	1
	Clamp, Hose	02-0535-00	1
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	1
	* * *		
8	Cover, Platen	A25799-001	1
9	Baffle, Air attaching part, Index 9	A25789-001	1
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	3
	* * *		

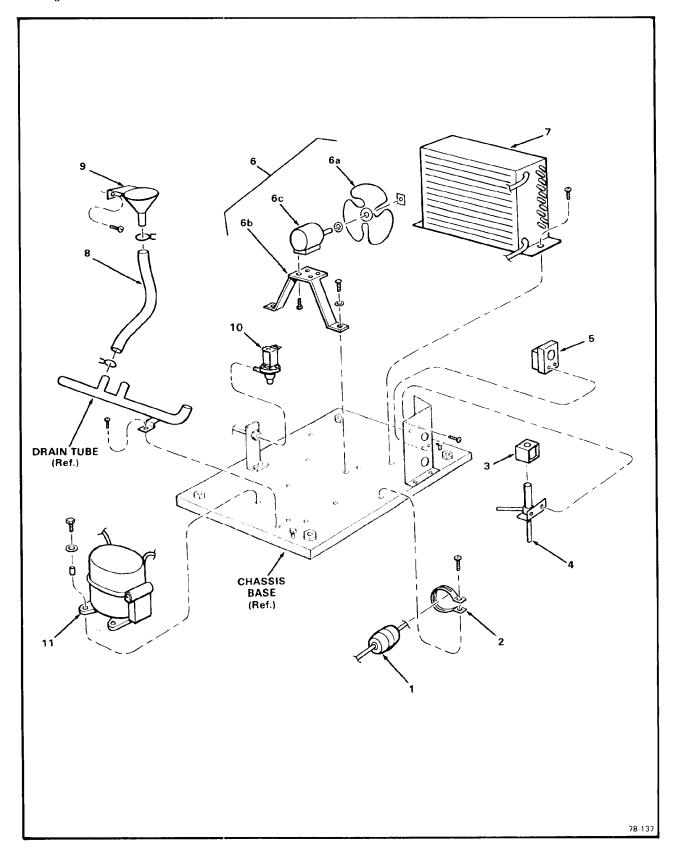


Figure 8-2. Major Assemblies - Air-Cooled.

Figure 8-2. Major Assemblies - Air-Cooled.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Major Assemblies - Air-Cooled	No Number	Ref.
1	Drier	02-0831-00	1
2	Brace, Drier	A09386-000	1
	attaching parts, Index 1 & 2		
	Screw, No. 8 x 1/2 T/F Tap * * *	03-1404-09	1
3	Coil & Frame Assembly, Hot Gas Valve	12-2008-01	1
4	Body & Plunger Assembly, Hot Gas Valve	12-2007-01	1
	attaching parts, Index 3 & 4		
	Screw, No. 8-32 x 3/8 Pan Hd	03-1403-17	2
	* * *		
5	Control, Hi Pressure	11-0394-01	1
1	attaching part, Index 5		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-09	2
	* * *		
6	Bracket Assembly, Fan Motor & Mounting	No Number	1
6a	Blade, Fan	18-0420-00	1
	Pad, Vibration (p∕o Fan Motor)	No Number	1
	Nut, Fan Mounting (p∕o Fan Blade)	No Number	1
6 b	Bracket, Fan Mounting	18-3705-01	1
6c	Motor, Fan	12-1575-01	1
	attaching parts, Index 6c to 6b		
	Screw (p/o Fan Motor)	No Number	4
	attaching parts, Index 6b to Chassis Base		
	Lockwasher, No. 1/4 Internal Tooth - Carbon Steel Zinc Plated	03-1417-08	2
	Screw, No. 1/4-20 x 1/2 T/C Hex Hd	03-0571-00	2
	* * *		

Figure 8-2. Major Assemblies - Air-Cooled (Con't)

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
7	Condenser - Air Cooled	18-3706-01	1
	attaching parts, Index 7		
	Screw, No. 1/4-20 x 1/2 T/C Hex Hd	03-0571-00	2
	* * *		_
8	Tube - 1/2-inch I.D. x 12-1/4 (order per foot)	13-0674-04	1
9	Cup Drain	02-2248-01	1
	attaching parts, Index 8 & 9		
	Screw, No. 6 x 3/8 T/F Tap	03-1404-23	2
	Clamp, Hose	02-0535-00	2
	* * *		
10	Valve, Water Inlet	12-1900-05	1
	* * *		
11	Compressor	No Number	1
	(See Figure 8-8)		
	attaching parts, Index 11		
	Grommet	18-2200-28	4
	Sleeve, Mounting	18-2200-27	4
	Washer, No. 5/16 Plain	03-1407-07	4
	Screw, No. 5/16-18 x 1-1/2 Hex Cap	03-1405-20	4
	* * *		
]			

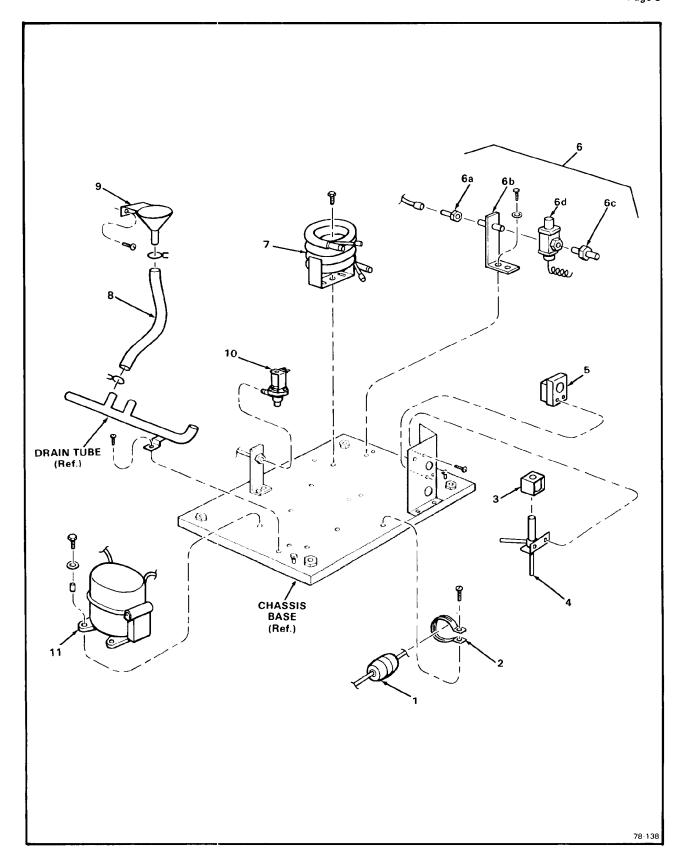


Figure 8-3. Major Assemblies - Water-Cooled.

Figure 8-3. Major Assemblies - Water-Cooled.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Major Assemblies - Water-Cooled	No Number	Ref
	* * *		
1	Drier	02-0831-00	1
2	Brace, Drier	A09386-000	1
	attaching parts, Index 1 & 2		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-09	1
	* * *		
3	Coil & Frame Assembly, Hot Gas Valve	12-2008-01	1
4	Body & Plunger Assembly, Hot Gas Valve	12-2007-01	1
	attaching parts, Index 3 & 4		!
	Screw, No. 8-32 x 3/8 Pan Hd	03-1403-17	2
	* * *		
5	Control, Hi Pressure (Flare Nut Connector)	11-0388-01	1
	Control, Hi Pressure (Solder Connector)	11-0388-02	1
	attaching part, Index 5		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-09	2
	* * *		,
6	Regulator Assembly, Water	No Number	1
:	attaching parts, Index 6		
	Lockwasher, No. 1/4 External Tooth - Carbon Steel Zinc Plated	03-1417-09	2
	Screw, No. 1/4-20 x 1/2 T/C Hex Hd	03-0571-00	2
6a	Union, Half - No. 5/8-18 x 3/8 Flare	16-0677-01	1
6b	Nipple Assembly, Pipe (w/Bracket)	A15924-000	1
6c	Coupling - 3/8 NPT x 3/8 Flare Brass	16-0355-00	1
6d	Valve, Water Regulator	11-0198-02	1
	* * *		
7	Condenser - Water-cooled	18-3707-01	1
	attaching parts, Index 7		
	Screw, No. 1/4-20 x 1/2 T/C Hex Hd	03-0571-00	2
	* * *		
8	Tube - 1/2-inch I.D. x 12-1/4 (Order per foot)	13-0674-04	1

Figure 8-3. Major Assemblies - Water-Cooled. (Cont'd.)

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
9	Cup, Drain	02-2248-01	1
	attaching parts, Index 8 & 9		1
	Screw, No. 6 x 3/8 T/F Tap	03-1404-23	2
i:	Clamp, Hose	02-0535-00	2
	* * *		
10	Valve, Water Inlet	12-1900-05	1
	***		:
11	Compressor	No Number	1
	(See Figure 8-8)		
	attaching parts, Index 11		
	Grommet	18-2200-28	4
	Sleeve, Mounting	18-2200-27	4
	Washer, No. 5/16 Plain	03-1407-07	4
	Screw, No. 5/16-18 x 1-1/2 Hex Cap	03-1405-20	4
	* * *		

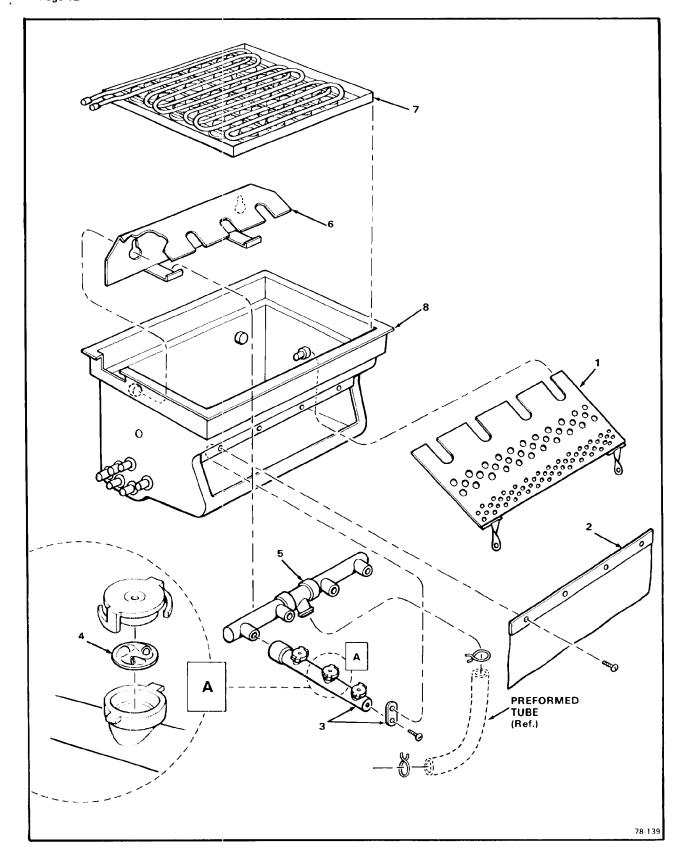


Figure 8-4. Freezer - Platen Assemblies.

Figure 8-4. Freezer - Platen Assemblies.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Freezer - Platen Assemblies	No Number	Ref.
	(See Figure 8-1 for		
	next higher Assembly)		
	* * *		
1	Chute, Cube - Front	A26800-001	1
	* * *		
2	Curtain Assembly	02-2241-01	1
	attaching parts, Index 2		
	Screw, No. 8 x 1/2 T/F Tap S/S	03-1404-10	4
	* * *		
3	Tube, Spray	A25801-020	4
	attaching parts, Index 3		
	Screw, No. 8 x 1/2 T/F Tap S/S (Curtain screws)	03-1404-10	Ref.
	* * *	:	
4	Spinner, Jet (3 per spray tube)	A09543-000	3 (12)
	* * *		
5	Tube, Manifold	02-2193-01	1
	* * *		
6	Chute, Cube - Rear	A25747-001	1
	* * *		
7	Platen Assembly (medium size ice cubes)	A25748-020	1
	Platen Assembly (small size ice cubes)	A25753-020	1
8	Chamber, Freezing	02-2226-01	1
1	* • •		

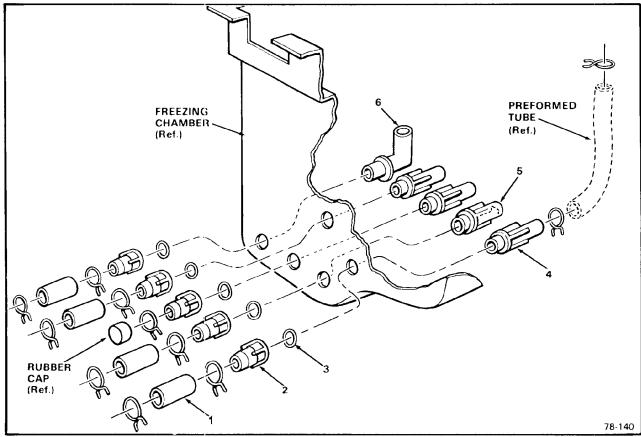


Figure 8-5. Freezer-Pump-Drain Tube Connections.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Freezer-Pump-Drain Tube Connections	No Number	Ref.
	(See Figure 8-4 for		
	next higher Assembly)		
1	* * * Tube - 3/4-inch I.D. x 2 (Order per foot)	13-0674-07	4
2	Tube, Female	A24379-001	5
	attaching parts, Index 1 & 2		
	Clamp, Hose	02-1358-01	8
	Clamp, Hose (Fits over Rubber Cap)	02-1530-01	1
3	* * * O-Ring	13-0617-02	5
4	Tube, Male	02-2080-01	3
5	* * * Tube, Pump Pick Up	02-2082-01	1
6	Pipe, Stand	02-2125-01	1
	* * *		! !

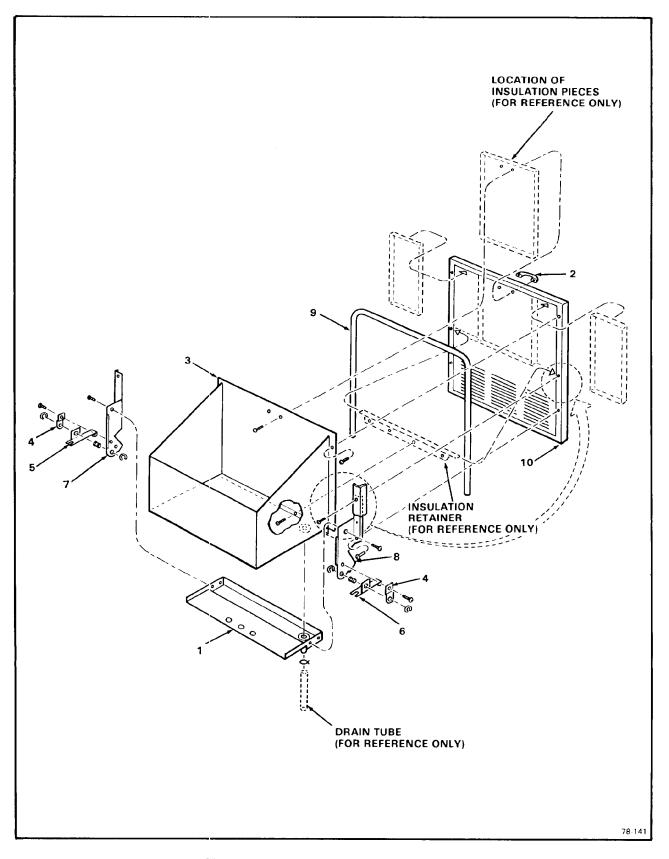


Figure 8-6. Lower Front Door Bin Assembly.

Figure 8-6. Lower Front Door Bin Assembly.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
1	Lower Front Door Bin Assembly (C.R.S Painted)	A25717-001	Ref.
	(See Figure/Index 8-1/2 (Stainless Steel)	A25717-002	Ref.
	for next higher Assembly)		
	* * *		
1	Pan Assembly, Drip	A25725-001	1
	attaching part, Index 2		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	4

2	Handle, Door	15-0596-01	1
	attaching part, Index 2		
	Screw, No. 10-24 x 1-1/4 Phil Recess Pan Hd	03-1403-73	2
	* * *	ĺ	
3	Bin Assembly	A25729-001	1
İ	attaching part, Index 3 (sides of Bin)		
:	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	16
	attaching part, (bottom Bin to Insulation Retainer)		
	Screw, No. 8 x 1/4 T/F Tap	03-1404-29	4
	* * *		
4	Bracket, hinge	A25720-001	2
	attaching part, Index 4 to 7 & 8		
	Screw, No. 1/4-20 x 1/2 T/C Hex Hd	03-0571-00	2
	* * *		
5	Hinge, Base - Right	A25719-002	1
6	Hinge, Base - Left	A25719-001	1
7	Hinge, Right Side	A25724-002	2
8	Hinge, Left Side	A25724-001	
	Attaching parts, Index 4, 5, 6 to 7 & 8		
	Pin Hinge	A25722-001	2
	Ring, Retaining	03-1539-08	4
	attaching parts, Index 7 & 8 to 1 & 10		
]

Figure 8-6. Lower Front Door Bin Assembly (Cont'd).

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
<u> </u>	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	4 (ref.)
9	Gasket (67-inch) (Order per foot) * * *	13-0595-00	1
10	Door, Lower Front (C.R.S. Painted)	A25718-001	1
	Door, Lower Front (Stainless Steel) * * *	A25718-002	1

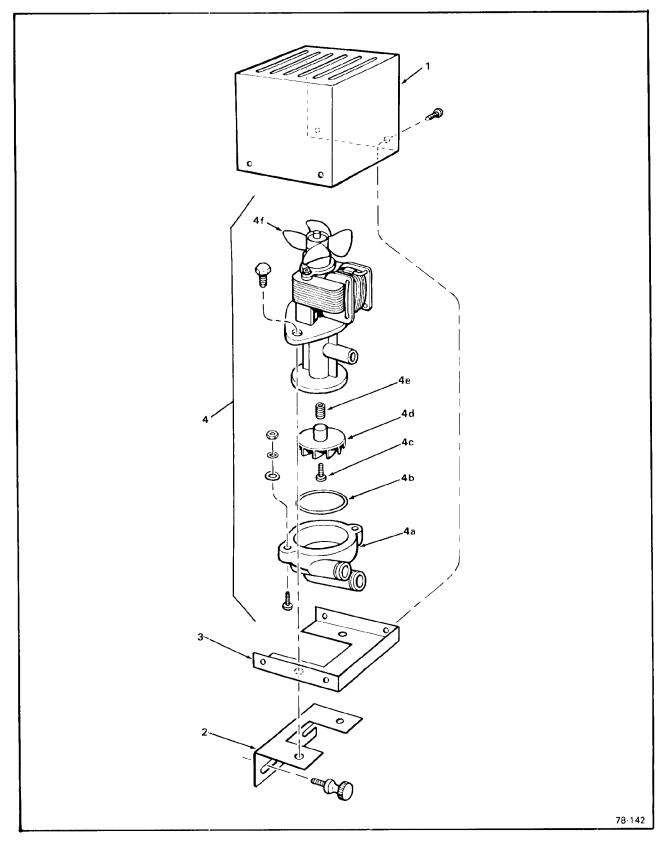


Figure 8-7. Water Pump, Bracket & Enclosure Assembly.

Figure 8-7. Water Pump, Bracket & Enclosure Assembly.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Water Pump, Bracket & Enclosure Assembly	No Number	Ref.
	(See Figure 8-1 for		
	next higher Assembly)		
	* * *		
1	Enclosure, Pump	A25795-001	1
	attaching part, Index 1		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	4
	* * *		
2	Bracket, Water Pump	No Number	Ref.
3	Bracket, Pump Box	A25794-001	1
	attaching parts, Index 2, 3 & 4		
	Screw, No. 1/4-20 x 1/2 T/X Hex Hd	03-0571-00	2
	attaching part, (Pump & Bracket to Cabinet Liner)		
	Screw, Thumb - No. 10-24 x 1/2 Knurled Hd	03-0727-00	2
	* * *		
4	Pump, Water	12-1975-01	1
	attaching part, Index 4 to 2 & 3		
	Screw, No. 1/4-20 x 1/2 T/C Hex Hd	03-0571-00	Ref.
4 a	Housing, Pump Intake	12-1849-61	1
4 b	O-Ring	12-1849-60	1
4c	Screw	12-2061-54	1
4 d	Impeller	12-2061-53	1
4 e	Spring	12-2061-55	1
	attaching parts, Index 4a thru 4e		
	Washer, No. 6 Plain S/S	03-1407-01	2
	Lockwasher, No. 6 External Tooth-Phosphor Bronze	03-1417-01	2
	Screw, No. 6-32 x 7/8 Phil Recess Pan Hd	03-1403-08	2
	Nut, No. 6-32	03-1406-01	2
4f	Blade, Fan	02-1719-00	1
	* * *		<u></u>

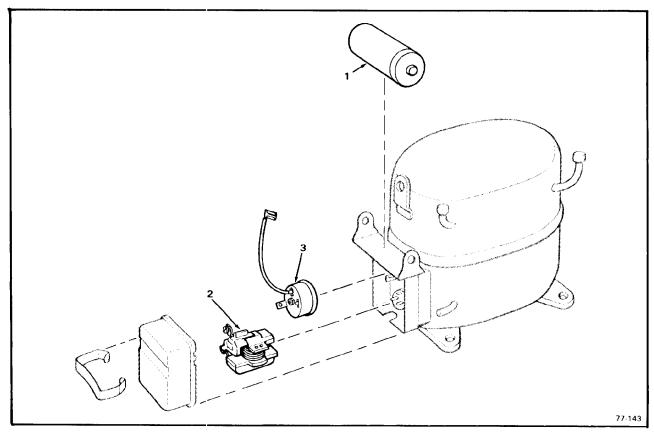


Figure 8-8. Compressor Assembly.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Compressor Assembly (Copeland)	18-4100-01	Ref.
	(See Figure 8-2/11 and 8-3/11 (Tecumseh)	18-3600-01	Ref.
	for next higher Assembly)		
	* * *		'
1	Capacitor, Start (Copeland)	18-4100-43	1
	Capacitor, Start (Tecumseh)	18-3600-30	1
	* * *		
2	Relay (Copeland)	18-4100-42	1
	Relay (Tecumseh)	18-3600-34	1
	* * *	!	
3	Overload (Copeland)	18-4100-41	1
	Protector (Tecumseh)	18-3600-35	1
	* * *	<u> </u> 	

NOTE:

 Early Model AC-20's used the COPELAND Compressor, except 400 units produced during 1976, when the TECUMSEH Compressor was installed, serial number usage for the 400 units include:

6Q302269 through 302514 (256 units) 6Q306164 through 306308 (144 units) 400 units total

- 2. Complete Motor Compressors are interchangeable. However, for replacement of defective component parts, replace with like part. DO NOT MIX TECUMSEH with COPELAND parts.
- 3. Current production of the Model AC-20, beginning with Serial No. 406754-09R uses the TECUMSEH Compressor.

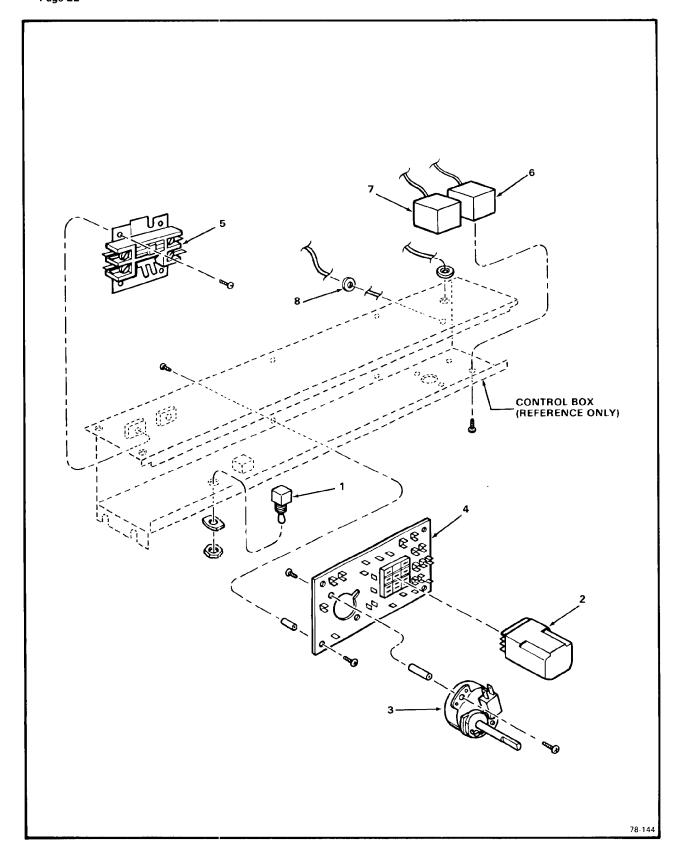


Figure 8-9. Control Box Assembly.

Figure 8-9. Control Box Assembly.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Control Box Assembly	No Number	Ref.
	(See Figure 8-1 for		
	next higher Assembly)		
	* * *		
1	Switch, Toggle	12-0426-01	1
	* * *		
2	Relay 3PDT Covered (Air-Cooled Model)	12-1879-03	1
	Relay 3PDT Covered (Water-Cooled Model)	12-1879-02	1
	* * *		
3	Timer & Switch Assembly	12-1980-01	1
	attaching parts, Index 3		i
	Stand - Off - (7/8 lg.)	02-2242-01	2
	Screw, No. 6-32 x 1/4 Phil Recess Pan Hd	03-1403-02	4
	* * *		
4	Board Assembly, Circuit	12-1912-01	1
	attaching parts, Index 4		
	Stand - Off - (5/8 lg)	02-2242-02	5
	Screw, No. 6-32 x 1/4 Phil Recess Pan Hd	03-1403-02	5
	* * *		
5	Contactor	12-2041-01	1
	attaching parts, Index 5		
	Screw, No. 8-32 x 3/16 Phil Recess Pan Hd	03-1403-14	2
	* * *		
6	Control, Temperature (Bin)	11-0353-02	1
7	Control, Cube Size	11-0345-02	1
	Screw, No. 8-32 x 1/4 Phil Recess Pan Hd	03-1403-15	4
	* * *		
8	Grommet	13-0557-00	2
	* * *		
		<u></u>	<u>L</u>

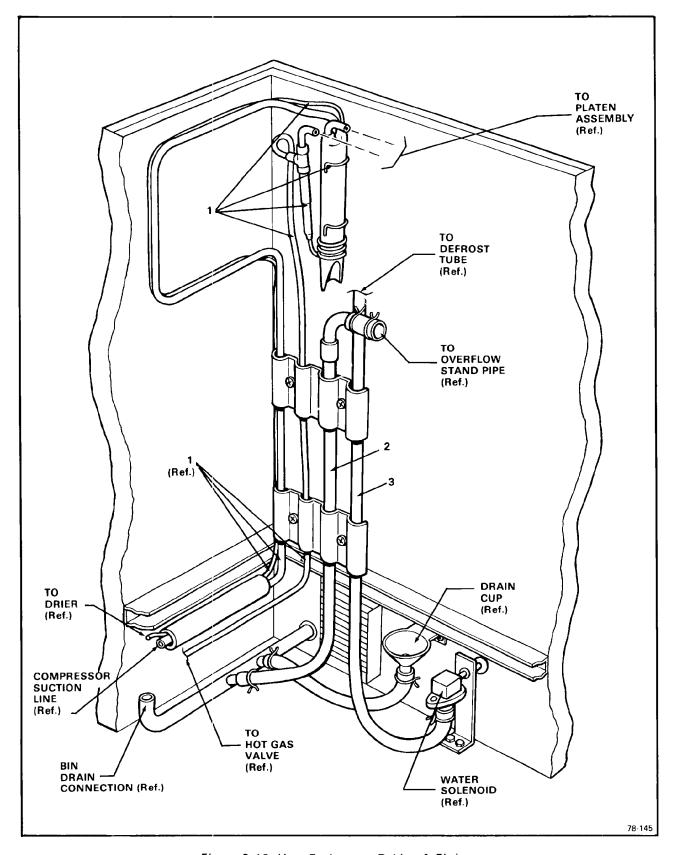


Figure 8-10. Heat Exchanger, Tubing & Fittings.

Figure 8-10. Heat Exchanger, Tubing & Fittings.

INDEX NO.	DESCRIPTION	PART NUMBER	REQ'D NUMBER
	Heat Exchanger, Tubirig and Fittings	No Number	Ref.
	(See Figure 8-1 for		
	next higher Assembly)		
	* * *		
1	Exchanger Assembly, Heat	A25755-001	1
	* * *		
2	Tube, Tygon 1/2 inch I.D. x 23 (Order per foot)	13-0674-04	1
3	Tube, Tygon 1/2 inch I.D. x 40 (Order per foot)	13-0674-04	1
	attaching parts		
	Clamp, Hose 11/16 inch I.D. Index 2 & 3	02-0535-00	2
	Clamp, Hose 1 inch I.D. Index 2	02-1358-01	2
	* * *		

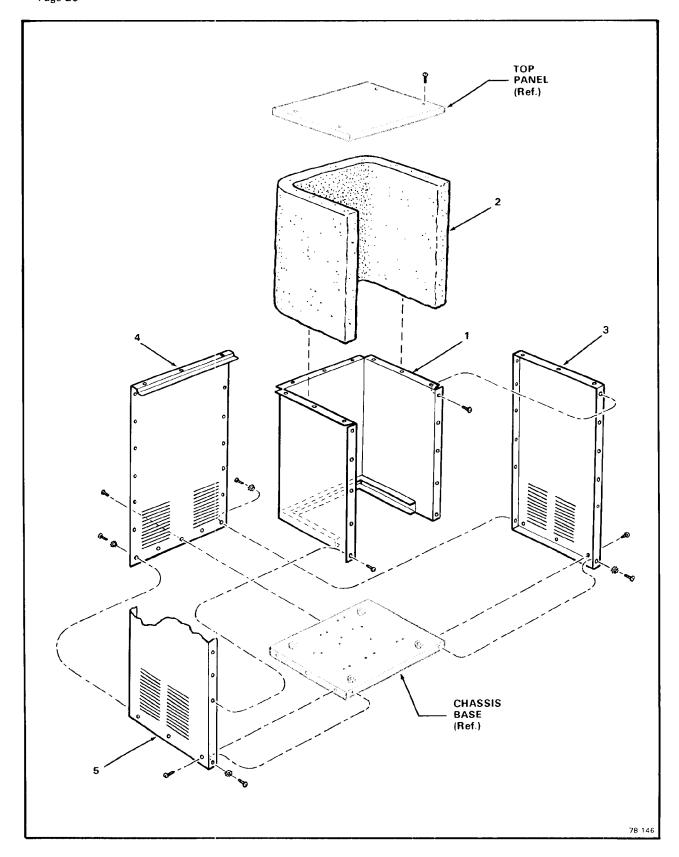


Figure 8-11. Panels and Cabinet Liner Assembly.

Figure 8-11. Panels and Cabinet Liner Assembly.

INDEX NO.	Figure 8-11. Panels and Cabinet Liner Assemble	PART	REQ'D
NO.	DESCRIPTION	NUMBER	NUMBER
	Panels and Cabinet Liner Assembly	No Number	Ref.
!	(See Figure 8-1 for	İ	
	next higher Assembly		
	* * *		
1	Liner Assembly, Cabinet	A25735-001	1
	attaching parts, Index 1		
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	6
	* * *		
2	Insulation, Fiberglass 1-1/4 Thk. x 24 Wide x 56 Lg.	No Number	1
	* * *		
3	Panel, Right Side (C.R.S. Painted)	A25703-001	1
	Panel, Right Side (Stainless Steel)	A25703-002	1
	attaching parts, Index 3		
	Lockwasher, No. 8 External Tooth-Carbon Steel Zinc Plated	03-1417-03	2
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	4

4	Panel, Back (C.R.S. Painted)	A25707-001	1
	Panel, Back (Stainless Steel)	A25707-002	1
	attaching parts, Index 4		ĺ
	Lockwasher, No. 8 External Tooth-Carbon Steel Zinc Plated	03-1417-03	Ref.
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	17
	* * *		
5	Panel, Left Side C.R.S. Painted)	A25702-001	1
	Panel, Left Side (Stainless Steel)	A25702-002	1
	attaching parts, Index 5		
] 	Lockwasher, No. 8 External Tooth-Carbon Steel Zinc Plated	03-1417-03	2
	Screw, No. 8 x 1/2 T/F Tap	03-1404-10	4

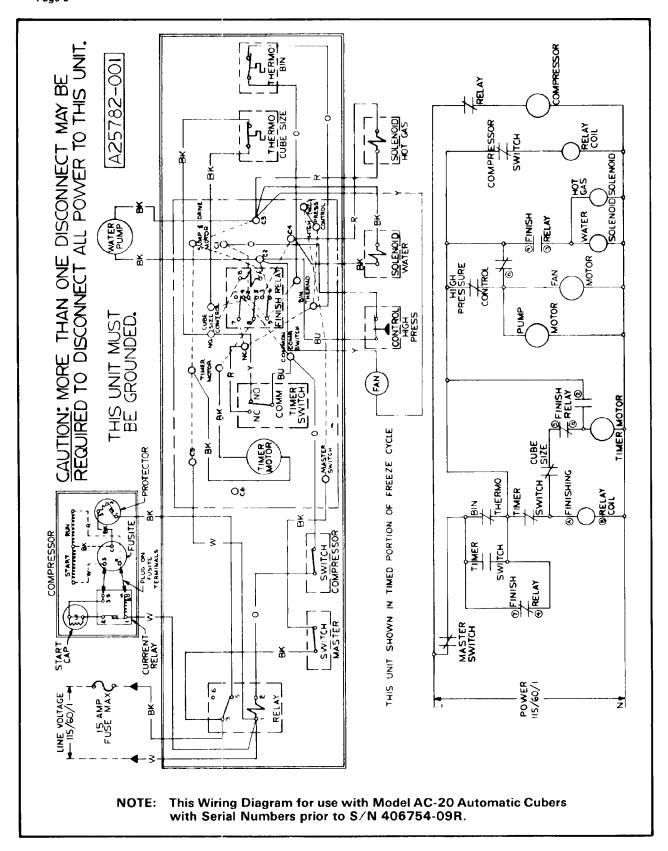


Figure 7-1. Wiring Diagram AC-20A - Air-Cooled.

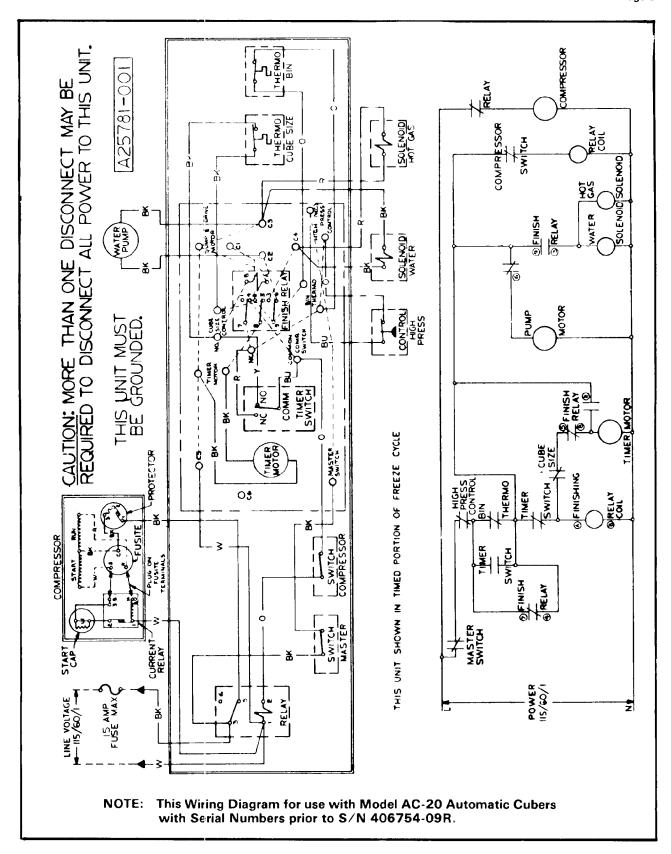


Figure 7-2. Wiring Diagram AC-20A - Water-Cooled.

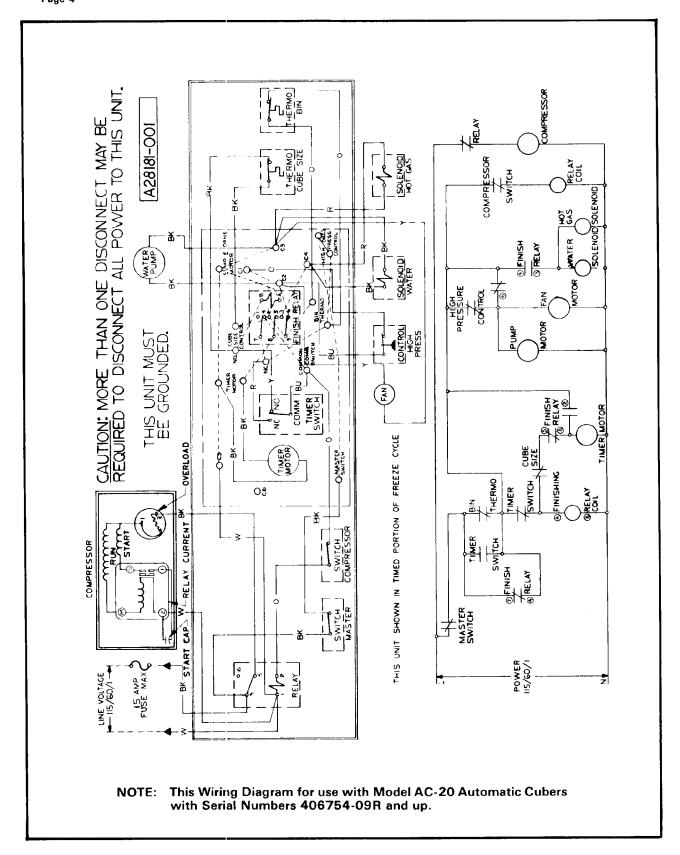


Figure 7-3. Wiring Diagram AC-20B - Air-Cooled.

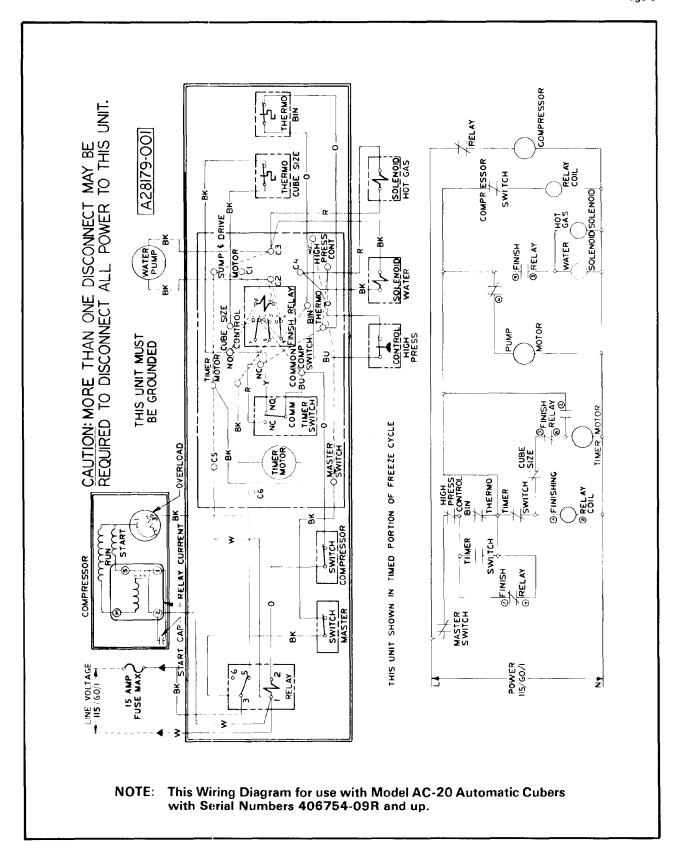


Figure 7-4. Wiring Diagram AC-20B - Water-Cooled.