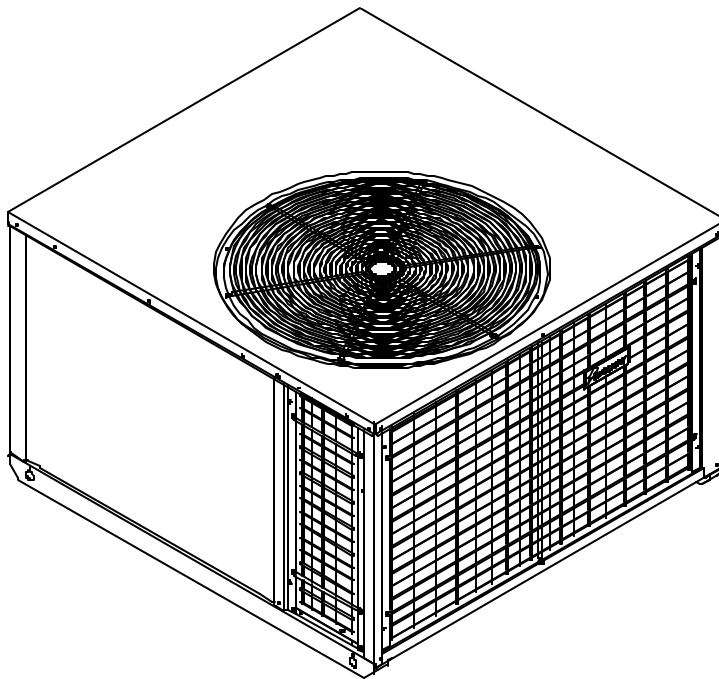


Models and manufacturing
numbers in this manual

PHB42C02E	P1235604C
PHB48C02E	P1235605C
PHB60C02E	P1235606C

Parts

PHB42-60C02E Package Heat Pump Units



This manual is to be used by qualified appliance technicians only. Amana does not assume any responsibility for property damage or personal injury for improper service procedures performed by an unqualified person.



RP6312002
Revision 0
August 2001

Important Information

Amana is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Amana also recommends contacting an authorized technician and using authorized factory parts.

For assistance within the U.S.A. contact:

Consumer Affairs Department
Amana Heating and Air Conditioning
1810 Wilson Parkway
Fayetteville, TN 37334
877-254-4729-Telephone
931-438-2922-Facsimile

For assistance outside the U.S.A. contact:

International Division
Amana Heating and Air Conditioning
1810 Wilson Parkway
Fayetteville, TN 37334
931-438-3632-Telephone
931-438-2922-Facsimile

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Functional Parts List 5

Illustration and Parts 6 - 17

Views shown are for parts illustrations only, not servicing procedures.

Text Codes:

- AR - As Required
- NA - Not Available
- NS - Not Shown
- 00000000 - See Note
- QTY - Quantity Example (QTY 3) (If Quantity not shown, Quantity = 1)
- M - Model Example (M1) (If M Code not shown, then part is used on all Models)

Expanded Model and Color Nomenclature:

Example	
M1 - Model#1	P _____
M2 - Model#2	P _____
M3 - Model#3	P _____

Functional Parts

Part

No: Description:

20214302	BOARD-DEFROST
20244002	BOARD-TERMINAL
D6879739	CAPACITOR
D6789042	CAPACITOR-METAL (M3)
D6789041	CAPACITOR-METAL (M2)
D6789027	CAPACITOR-METAL (M1)
11012513	COMP ZR40KC-PFV230 (M1)
11012512	COMP ZR47K3-PFV235 (M2)
10289208	COMP-ZR57K3-PFV (M3)
20192001	CONDENSER ASSY
C6170002	CONTACTOR-30A (M1)
C6170005	CONTACTOR-40A (M2, M3)
10030914	CONTROL-DEF 30/60
20207201	EVAPORATOR ASSY
11182906	FAN-CONDENSER CW
20001001	HARNESS-BLOWER (M1, M2)
20217003	HARNESS-BLOWER (M3)
10685012	HARNESS-COIL
20203901	HARNESS-COMP
20311101	HARNESS-CONTROL
11112806	MOTOR-COND (M3)
11112805	MOTOR-COND (M1, M2)
20028601	MOTOR-EVAP
20257807	MOTOR-EVAP EC 3/4
10135601	RELAY
M0385305	SWITCH (M1, M2)
11120302	TRANSFORMER
20212403	VALVE-EXP INDOOR (M2, M3)
20212401	VALVE-EXP INDOOR (M1)
20212404	VALVE-EXP OUTDOOR (M2, M3)
20212402	VALVE-EXP OUTDOOR (M1)
D6723302	WHEEL-BLOWER

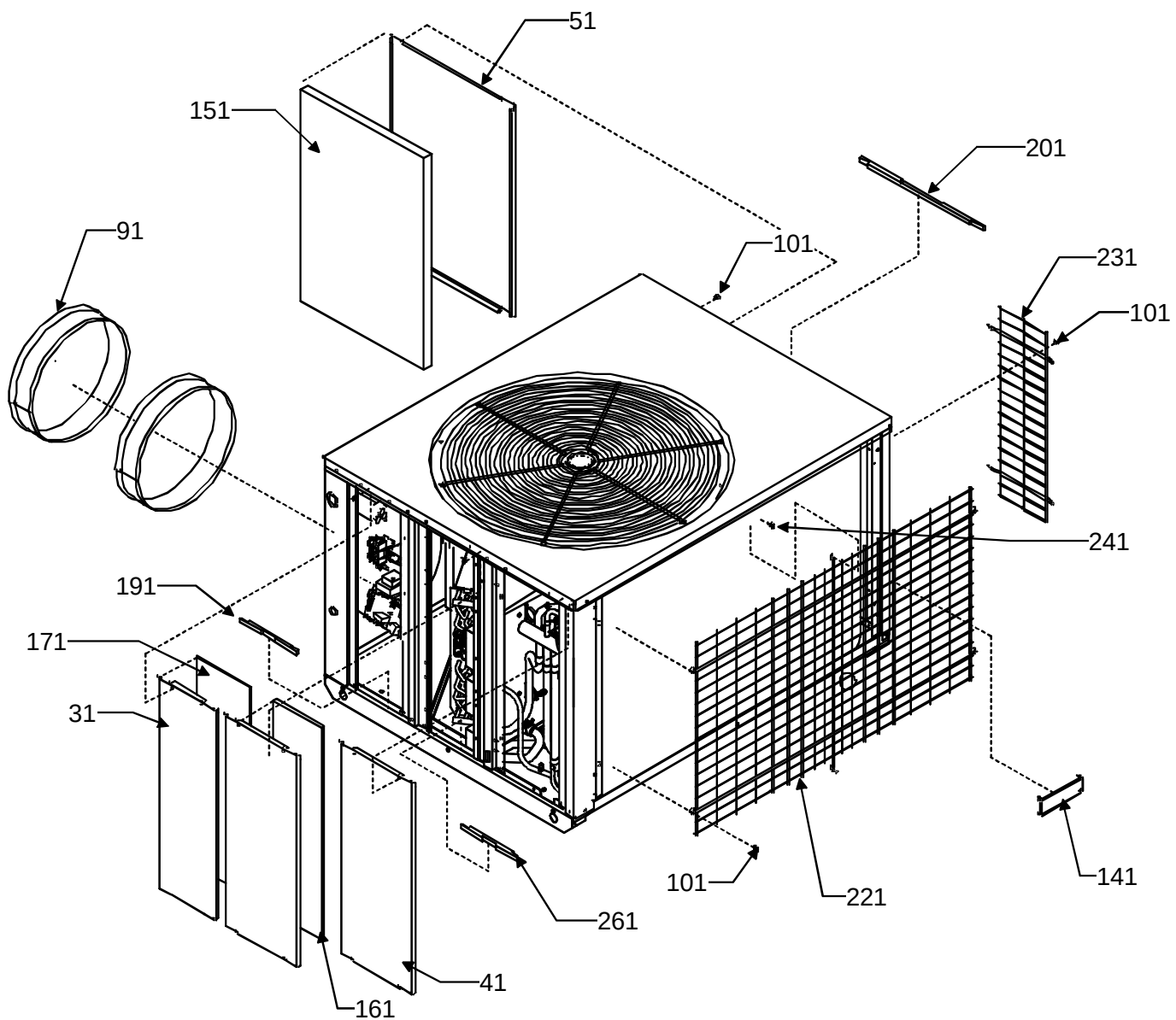
SPECIAL PARTS

10730418	MANUAL-INSTALL
10500218	MANUAL-USERS
RP6312002	PARTS MANUAL
RS6300002	SERVICE MANUAL
20313903	SPEC SHEET (M1, M2)
20313905	SPEC SHEET (M3)
10017111	WARRANTY

Expanded Model and Color Nomenclature

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M3 - PHB60C02E	P1235606C

Outer Cabinet



Outer Cabinet

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
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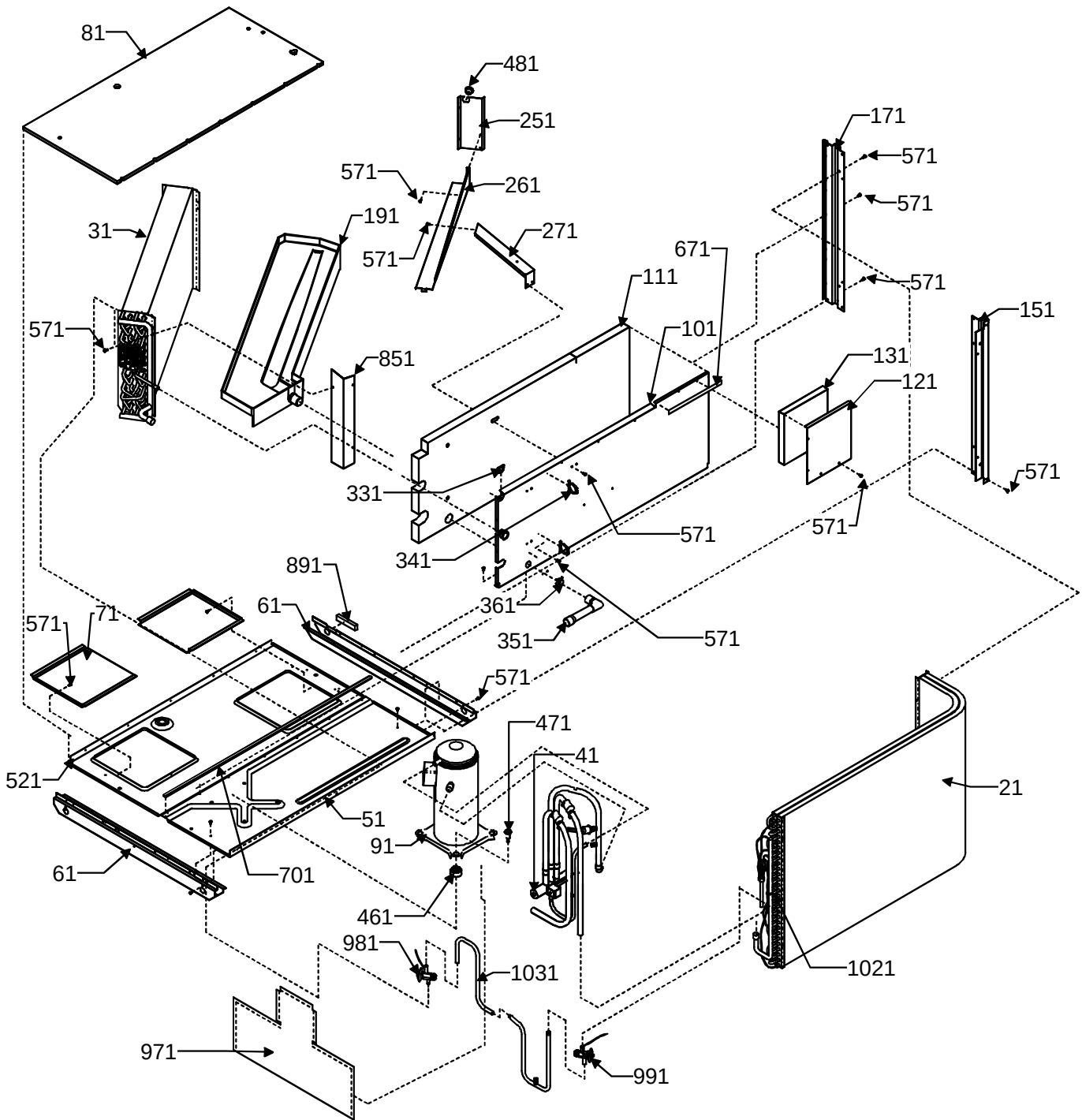
Image 1:

31	11099013	DOOR-CAB
41	11099014	DOOR-CAB (QTY 2)
51	11099015	DOOR-CAB
91	20014201	TRANSITION-DUCT (M1, M2)
101	M0221817	SCREW-SM (QTY AR)
141	20187902	NAMEPLATE-SIDE
151	11130118	INSULATION
161	11131111	INSULATION
171	20014702	INSULATION
191	11160106	GASKET-FOAM
201	11160104	GASKET-FOAM
221	20199702	GRILLE-FLAT
231	11184704	GRILLE-FLAT
241	M0229130	SCREW-SD
261	11160107	GASKET-FOAM

Expanded Model and Color Nomenclature

M1 - PHB42C02E	P1235604C
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M3 - PHB60C02E	P1235606C

Chassis



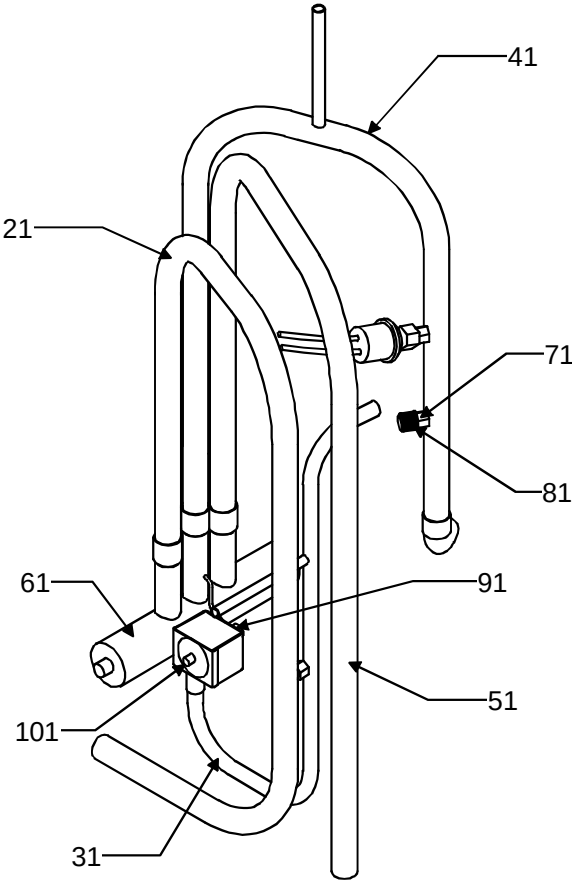
Chassis

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
21	20192001	CONDENSER ASSY	
31	20207201	EVAPORATOR ASSY	
41	20217905	REV VALVE WELD (M1)	
41	20217906	REV VALVE WELD (M3)	
41	20217907	REV VALVE WELD (M2)	
51	20001202	BASEPAN	
61	20000503	RAIL-BASEPAN (QTY 2)	
71	20001101	COVER-DUCT (QTY 2)	
81	20012902	INSUL-BASEPAN	
91	11012513	COMP ZR40KC-PFV230 (M1)	
91	11012512	COMP ZR47K3-PFV235 (M2)	
91	10289208	COMP-ZR57K3-PFV (M3)	
101	20013506	PART-COND	
111	20013602	INSUL-COND	
121	20000901	PLATE-COND	
131	11130114	INSUL-PLATE	
151	20001805	POST-CORNER	
171	11098721	POST-SIDE (QTY 2)	
191	20000601	PAN-DRIP	
261	20014401	COIL-BAFFLE	
271	20013901	SUPPORT-MOTOR	
331	A4568804	GROMMET-D	
341	M0118702	CLIP-GUIDE	
351	20295401	DRAIN ASSY	
361	M0117605	CLAMP-TUBE (QTY 2)	
461	10107301	GROMMET-COMP FOOT (QTY 4)	
471	M0221641	SCREW-SHOULDER TF (QTY 4)	
481	A4554820	BUSHING-SNAP (M1, M2)	
521	M0275563	SEALER-RTV (QTY 4)	
571	M0221817	SCREW-SM (M1, M2)	
671	10839803	GASKET (QTY AR)	
701	10839810	GASKET (QTY AR)	
981	20212401	VALVE-EXP INDOOR (M1)	
981	20212403	VALVE-EXP INDOOR (M2, M3)	
991	20212402	VALVE-EXP OUTDOOR (M1)	
991	20212404	VALVE-EXP OUTDOOR (M2, M3)	
NS	20031201	CLAMP-TXV BULB (QTY 2)	
NS	20031203	CLAMP-TXV BULB (QTY 2)	
NS	B1369301	INSUL (M1, M2)	

Expanded Model and Color Nomenclature

M1 - PHB42C02E	P1235604C
M2 - PHB48C02E	P1235605C
M3 - PHB60C02E	P1235606C

Reversing Valve



Reversing Valve

Ref. Part			Ref. Part	
No: No:	Description:		No: No:	Description:

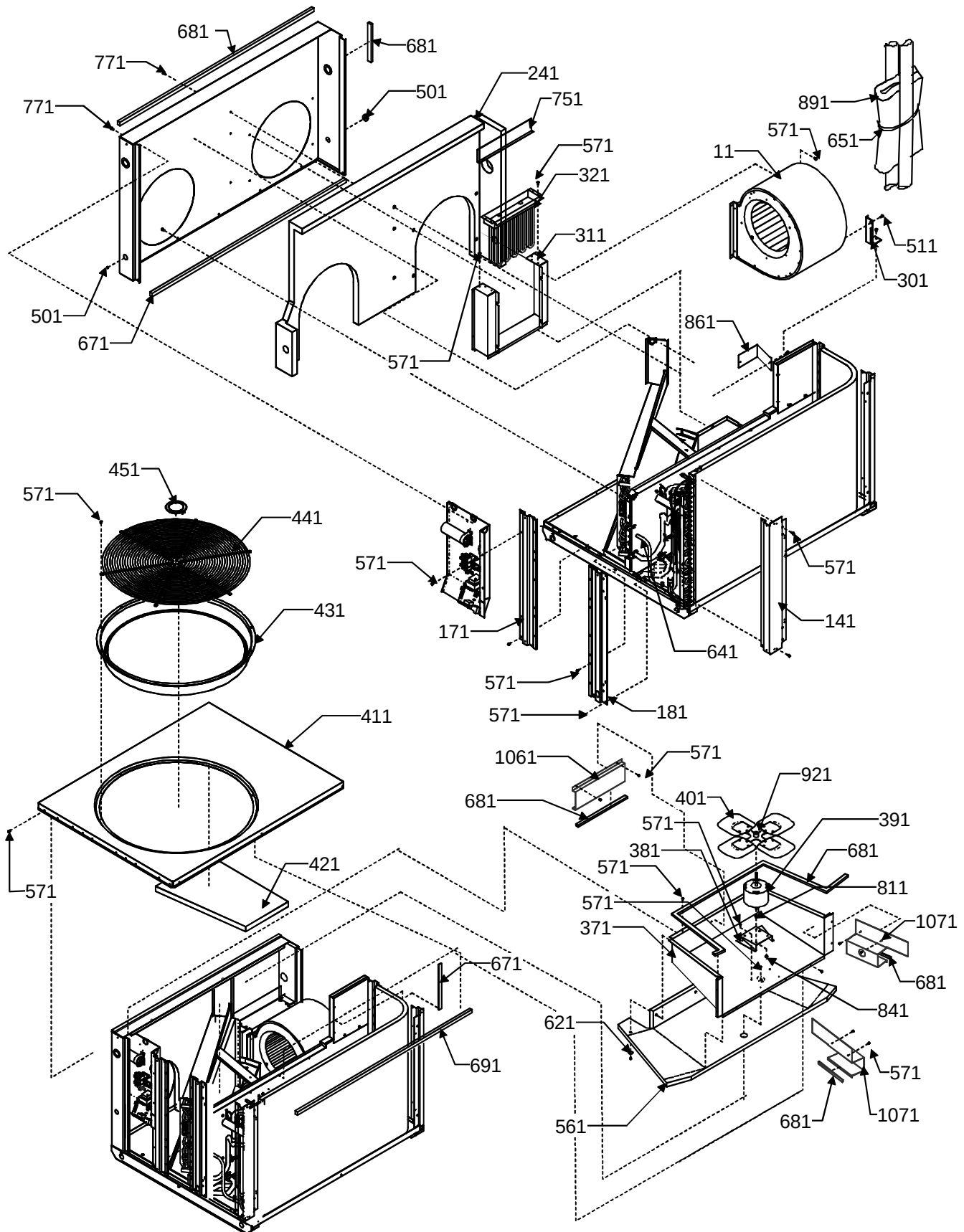
Image 1:

21	20217701	TUBE-RVLV/IINDR
31	20208001	RVLV/COMP-D WELD (M1)
31	20208002	RVLV/COMP-D WELD (M2, M3)
41	20217805	RVLV/COMP-S WELD (M1)
41	20217806	RVLV/COMP-S WELD (M2, M3)
51	20217601	TUBE-RVLV/OUTDR
61	10680904	VALVE-REVERSING
71	A4692801	VALVE-CORE
81	A4692602	NUT-CAP
91	10702401S	LOCKNUT
101	10702301S	COVER-COIL

Expanded Model and Color Nomenclature

M1 - PHB42C02E	P1235604C
M2 - PHB48C02E	P1235605C
M3 - PHB60C02E	P1235606C

Internal Components



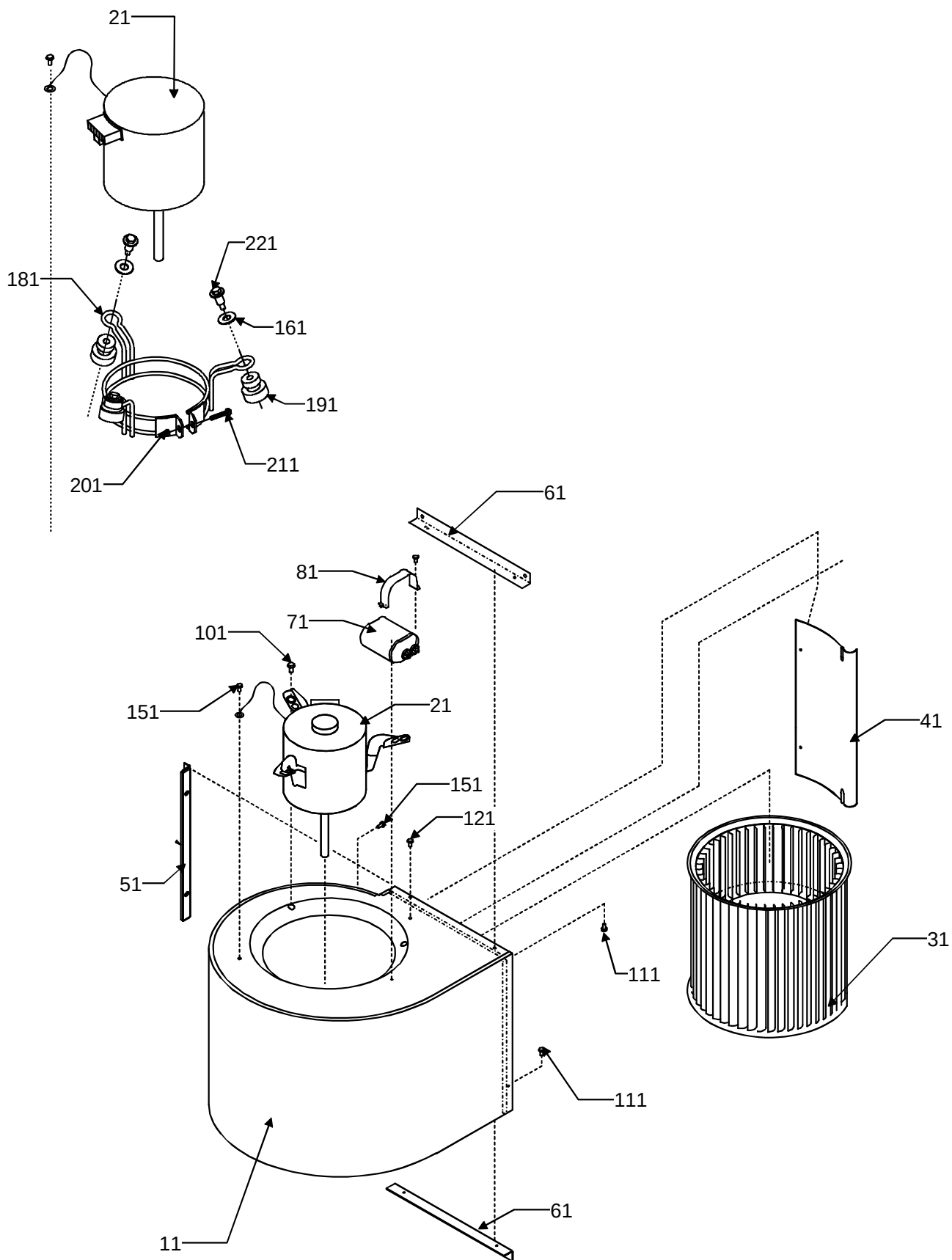
Internal Components

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
141	20001704		POST CORNER
171	11098721		POST-SIDE (QTY 2)
181	11098722		POST-SIDE
211	20001001		HARNESS-BLOWER (M1, M2)
211	20217003		HARNESS-BLOWER (M3)
231	20001306		PANEL-BACK
241	20013802		INSUL-BACK (M1, M2)
241	20013803		INSUL-BACK (M3)
301	20013202		BRACKET-BLWR
311	20207501		HEATER BOX (M1, M2)
311	20237801		HEATER BOX (M3)
321	20020601		TOP-HTR BOX
371	11098304		PART-FAN
381	11099501		MOUNT-COND MOTOR
391	11112805		MOTOR-COND (M1, M2)
391	11112806		MOTOR-COND (M3)
401	11182906		FAN-CONDENSER CW
411	20000704		COVER-TOP
421	11182501		INSUL-TOP
431	20171401		ORIFICE-COND
441	11112001		GRILLE-FAN
451	C6196704		PLATE-LOGO
501	A4603801		GROMMET (QTY 2)
511	M0250558		SCREW-TC
561	11197402		INSUL-FAN PART
571	M0221817		SCREW-SM (QTY AR)
621	11197701		WASHER-RETAINER (QTY 2)
641	M0275521		SEALER-PLASTIC (M1, M2)
651	M0321202		TIE-ELEC LG (QTY 2)
671	10839803		GASKET (QTY AR)
681	10839801		GASKET (QTY AR)
691	10839712		GASKET (QTY AR)
751	20207602		BAFFLE-HTR BOX (M1, M2)
771	M0220819		SCREW-SM (QTY AR)
811	20042802		GROMMET-ISLR (QTY 4)
841	M0280801		NUT-HEX (QTY 4)
851	20247106		FILLER-EVAP (M1, M2)
861	20247001		BRACKET-EVAP
891	10839807		GASKET (QTY AR)
921	M0275602		SEALER-THD (M1, M2)
1021	20031203		CLAMP-TXV BULB (M1, M2)
1031	20229304		TUBE-EVAP/LIQ PKG (M1, M2)
1061	20248502		BAFFLE-SOUND
1071	20248402		BAFFLE-SOUND (QTY 2)
NS	20254101		BLANKET-SOUND (M1)
NS	20254103		BLANKET-SOUND (M2)

Expanded Model and Color Nomenclature

M1 - PHB42C02E	P1235604C
M2 - PHB48C02E	P1235605C
M3 - PHB60C02E	P1235606C

Blower



Blower

Ref. Part			Ref. Part		
No: No:		Description:	No: No:		Description:
Image 1:					
11	20162503	BLOWER HSG WELD			
21	20028601	MOTOR-EVAP			
21	20257807	MOTOR-EVAP EC 3/4			
31	D6723302	WHEEL-BLOWER			
41	C6121810	CUTOFF CO FUR			
51	10839803	GASKET (QTY AR)			
61	20021101	RAIL-BLOWER (QTY 2)			
71	D6879739	CAPACITOR			
81	A3410501	STRAP-CAPACITOR			
101	M0221461	SCREW-TC (M1, M2)			
121	M0211020	SCREW-SM #8-7/8 (QTY 2)			
151	M0211017	SCREW-SM #8-1/2LG (QTY 3)			
161	M0274008	WASHER-FLAT (QTY 3)			
181	C9443702	BRKT-MOTOR MT			
191	A4002701	GROMMET (QTY 3)			
201	M0282015	NUT-KEPS			
211	M0267144	SCREW-MACH			
221	M0221461	SCREW-TC (QTY 3)			

Expanded Model and Color Nomenclature

M1 - PHB42C02E	P1235604C
M2 - PHB48C02E	P1235605C
M3 - PHB60C02E	P1235606C

Control Box/Gaskets

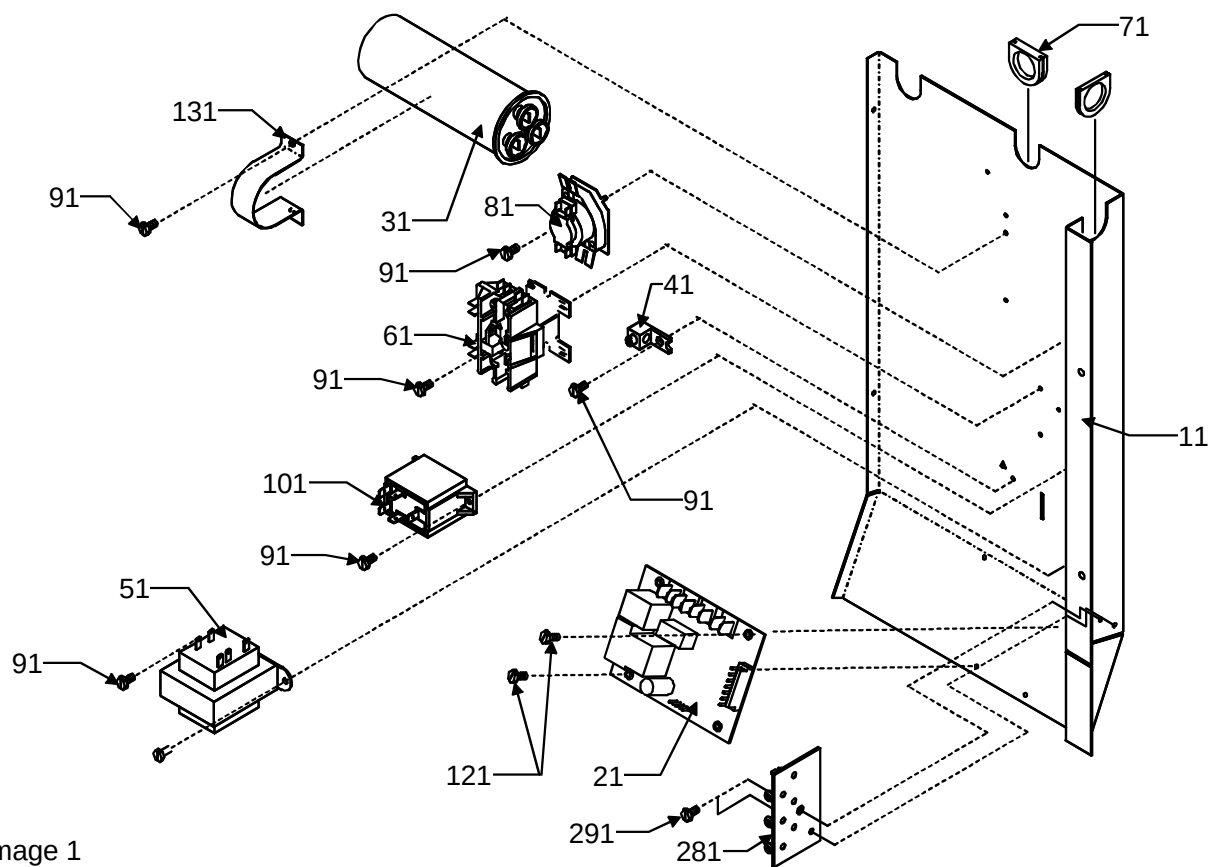
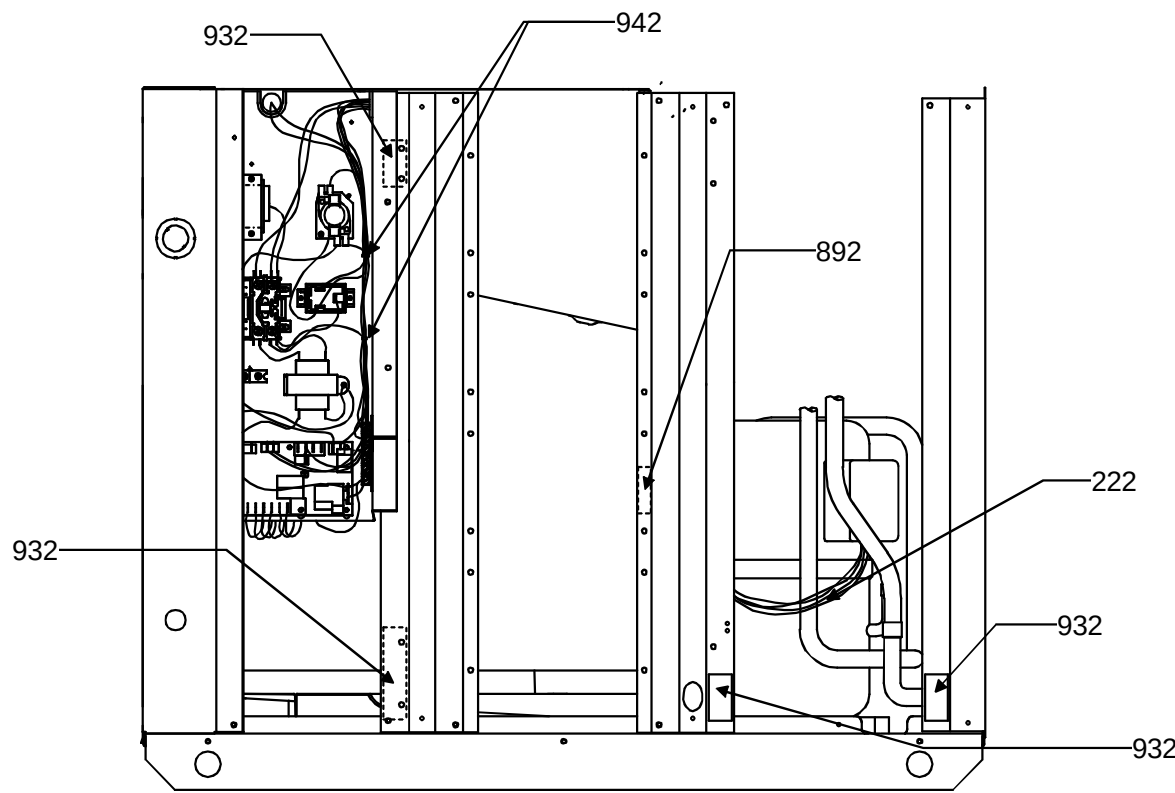


Image 1

Image 2



Control Box/Gaskets

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
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Image 1:

11	20014104	CONTROL BOX
21	20214302	BOARD-DEFROST
31	D6789027	CAPACITOR-METAL (M1)
31	D6789041	CAPACITOR-METAL (M2)
31	D6789042	CAPACITOR-METAL (M3)
41	A9015201	LUG-GROUND
51	11120302	TRANSFORMER
61	C6170002	CONTACTOR-30A (M1)
61	C6170005	CONTACTOR-40A (M2, M3)
71	A4554820	BUSHING-SNAP (M1, M2)
81	M0385305	SWITCH (M1, M2)
91	M0211016	SCREW-SM #8-3/8LG (QTY AR)
101	10135601	RELAY
121	M0216519	SCREW-SM (QTY 2)
131	C6300503	STRAP-CAPACITOR
281	20244002	BOARD-TERMINAL
291	M0211017	SCREW-SM #8-1/2LG (QTY 2)

Image 2:

222	20203901	HARNESS-COMP
892	10839807	GASKET (QTY AR)
932	10839811	GASKET (QTY AR)
942	M0321204	TIE-ELEC SM (QTY AR)

Expanded Model and Color Nomenclature

M1 - PHB42C02E	P1235604C
M2 - PHB48C02E	P1235605C
M3 - PHB60C02E	P1235606C