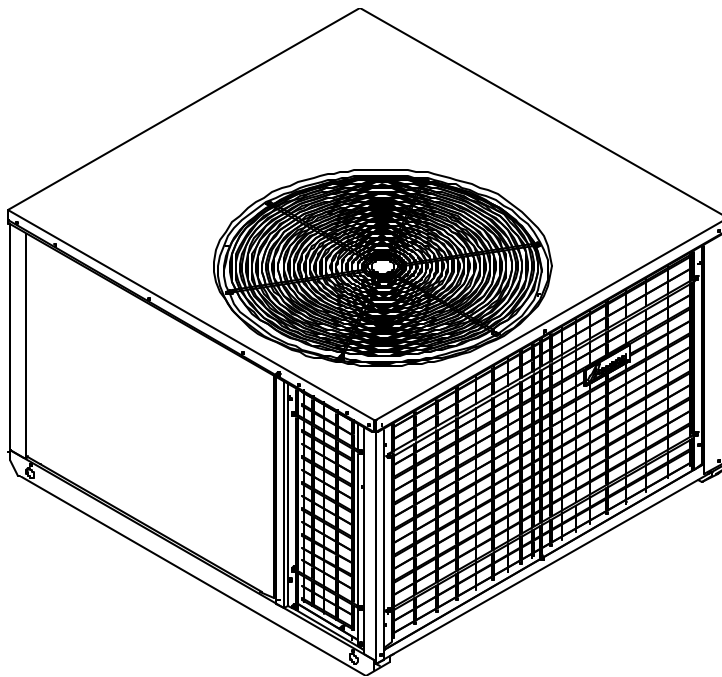


Models and manufacturing
numbers in this manual

PHD24CC2E1	P1240008C
PHD30CC2E1	P1240009C
PHD36CC2E1	P1240010C

Service Parts

PHD*CC2E1 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.



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RP6332001
Revision 0
November 2002

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
Goodman Company, L.P.
7401 Security Way
Houston, Texas 77040
877-254-4729-Telephone
713-863-2382-Facsimile

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

International Division
Goodman Company, L.P.
7401 Security Way
Houston, Texas 77040
713-861-2500-Telephone
713-863-2382-Facsimile

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Functional Parts List 4 - 5

Illustration and Parts 6 - 17

Views shown are for parts illustrations only, not servicing procedure

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

Part No:	Description:
20243701	10KW/HEAT-ELEMENT
11190803	ACCUMULATOR (M1, M2)
B1226008	BOARD-DEFROST
D6879747	CAPACITOR
D6789062	CAPACITOR-ROUND (M1)
D6789059	CAPACITOR-ROUND (M2, M3)
20369901	COMP-CP ZR22K4-PFV (M1)
11012503	COMP-CP ZR28K3 (M2)
11012506	COMP-CP ZR32K3-PFV (M3)
20336401	CONDENSER ASSY (M1)
20336402	CONDENSER ASSY (M2)
20333002	CONDENSER ASSY (M3)
C6170002	CONTACTOR-30A
10030914	CONTROL-DEF 30/60
C6453317	CUTOUT-LOW PRESS
20342701	EVAPORATOR ASSY (M3)
20336301	EVAPORATOR ASSY (M1)
20336201	EVAPORATOR ASSY (M2)
20001002	HARNESS-BLOWER
10685012	HARNESS-COIL (M1, M2)
10685013	HARNESS-COIL (M3)
20001401	HARNESS-COMP (M1, M2)
20203901	HARNESS-COMP (M3)
20425901	HARNESS-CONTROL
11112805	MOTOR-CONDENSER
20013002	MOTOR-EVAP (M3)
20013001	MOTOR-EVAP (M1, M2)
11096201	ORIFICE .051 (COND) (M2)
11096220	ORIFICE .057 (COND) (M1)
11096205	ORIFICE .063 (EVAP) (M2)
11096216	ORIFICE .070 (EVAP) (M1)
10135601	RELAY
11120302	TRANSFORMER
20212407	VALVE-EXP INDOOR (M3)
20212408	VALVE-EXP OUTDOOR (M3)
D6723302	WHEEL-BLOWER

Functional Parts

Part No:	Description:
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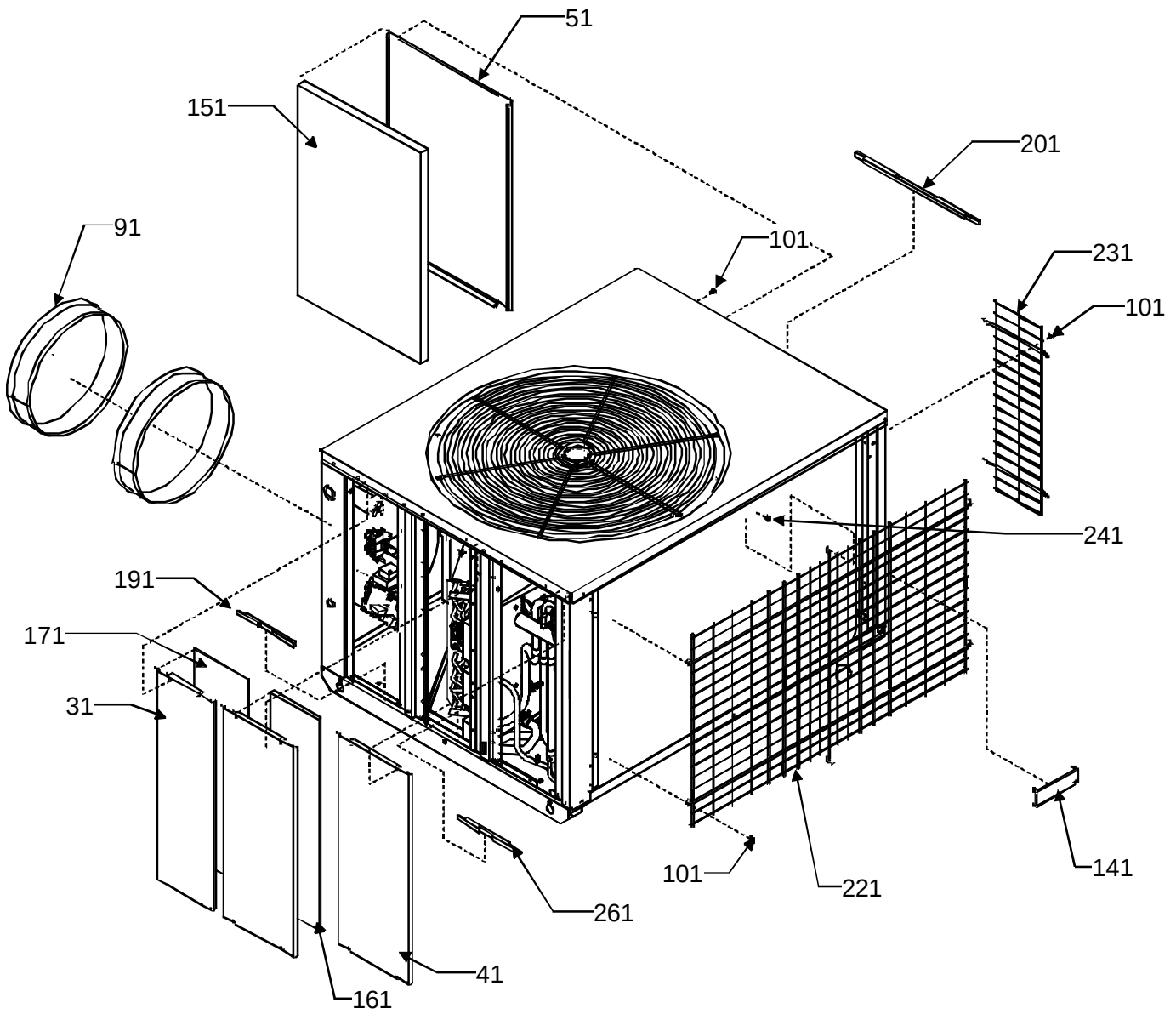
SPECIAL PARTS

10730415	MANUAL-INSTALL
10500218	MANUAL-USERS
RS6300003	SERVICE MANUAL
20313921	SPEC SHEET
RT6332001	TECHNICAL MANUAL
10017110	WARRANTY CERT

Expanded Model and Color Nomenclature

M1 - PHD24CC2E1	P1240008C
M2 - PHD30CC2E1	P1240009C
M3 - PHD36CC2E1	P1240010C

Outer Cabinet



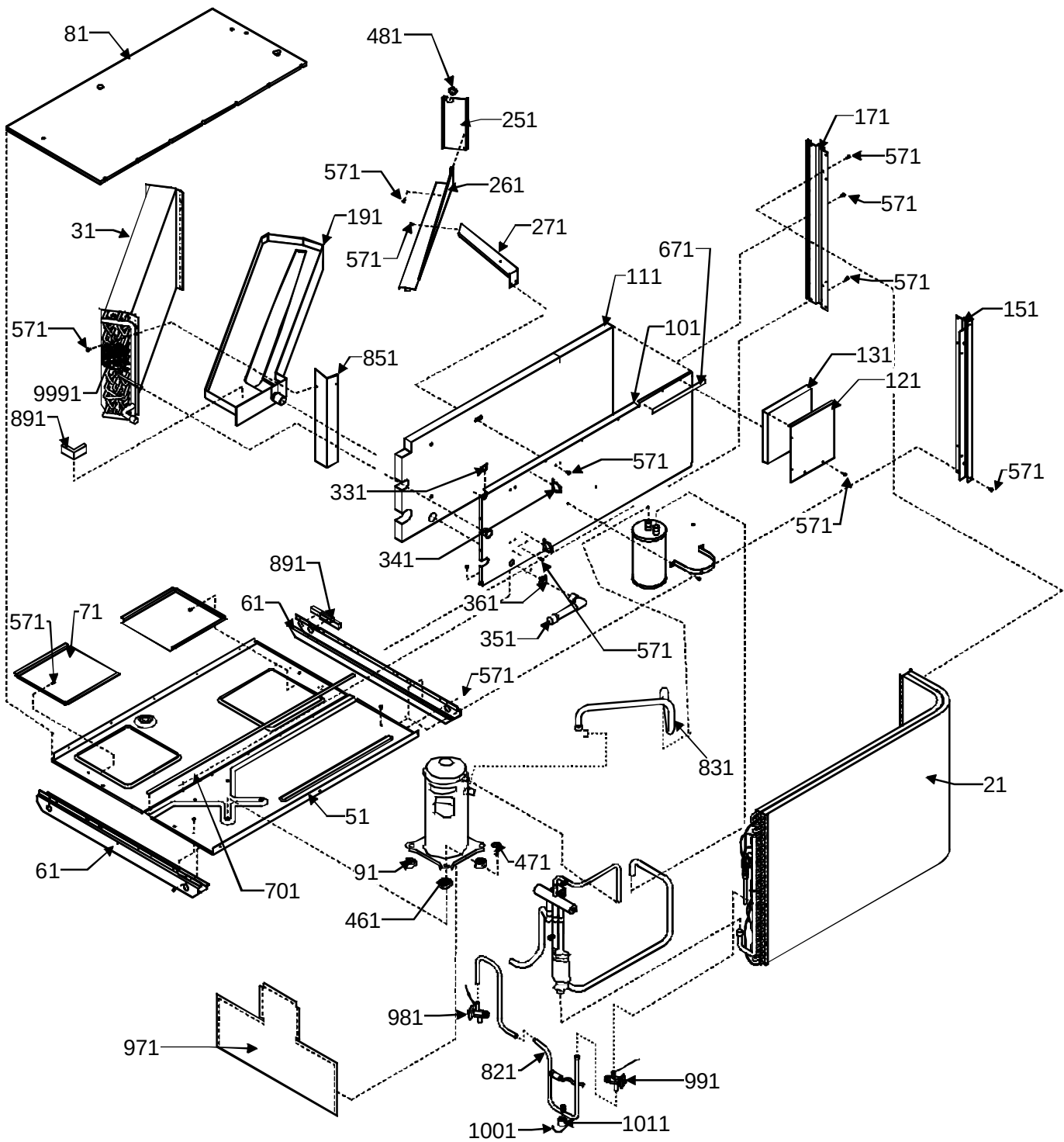
Outer Cabinet

Ref. Part			Ref. Part		
No: No:		Description:	No: No:		Description:
<i>Image 1:</i>					
31	11099009	DOOR-CAB (M1, M2)			
31	11099013	DOOR-CAB (M3)			
41	11099010	DOOR-CAB (M1, M2)			
41	11099014	DOOR-CAB (M3)			
51	11099011	DOOR-CAB (M1, M2)			
51	11099015	DOOR-CAB (M3)			
91	20014201	TRANSITION-DUCT (QTY 2)			
101	M0221817	SCREW-SM (QTY AR)			
141	20187902	NAMEPLATE-SIDE			
151	11130116	INSULATION (M1, M2)			
151	11130118	INSULATION (M3)			
161	11131111	INSULATION (M3)			
161	11131110	INSULATION-DOOR (M1, M2)			
171	20014701	INSULATION (M1, M2)			
171	20014702	INSULATION (M3)			
191	20412002	GASKET-FOAM			
201	20412001	GASKET-FOAM			
221	20199703	GRILLE-FLAT (M1, M2)			
221	20199704	GRILLE-FLAT (M3)			
231	11184705	GRILLE-FLAT (M1, M2)			
231	11184706	GRILLE-FLAT (M3)			
241	M0229130	SCREW-SD			
261	20412003	GASKET-FOAM			
NS	20212901	FLANGE (QTY 2)			

Expanded Model and Color Nomenclature

M1 - PHD24CC2E1	P1240008C
M2 - PHD30CC2E1	P1240009C
M3 - PHD36CC2E1	P1240010C

Chassis



Chassis

**Ref. Part
No: No:**

Description:

Image 1:

21	20333002	CONDENSER ASSY (M3)
21	20336401	CONDENSER ASSY (M1)
21	20336402	CONDENSER ASSY (M2)
31	20336201	EVAPORATOR ASSY (M2)
31	20336301	EVAPORATOR ASSY (M1)
31	20342701	EVAPORATOR ASSY (M3)
51	20001202	BASEPAN
61	20000503	RAIL-BASEPAN (QTY 2)
71	20001101	COVER-DUCT (QTY 2)
81	20012902	INSULATION-BASEPAN
91	20369901	COMP-CP ZR22K4-PFV (M1)
91	11012503	COMP-CP ZR28K3 (M2)
91	11012506	COMP-CP ZR32K3-PFV (M3)
101	20013507	PART-CONDENSER (M1, M2)
101	20013508	PART-CONDENSER (M3)
111	20013603	INSULATION-COND PNL (M1, M2)
111	20013604	INSULATION-COND PNL (M3)
121	20000901	PLATE-COND
131	11130114	INSULATION-PLATE
151	20001804	POST-CORNER (M1, M2)
151	20001805	POST-CORNER (M3)
171	11098719	POST-SIDE (M1, M2)
171	11098721	POST-SIDE (M3)
191	20000601	PAN-DRIP
251	11197101	PART-EVAP
261	20014401	COIL-BAFFLE
271	20013901	SUPPORT-MOTOR
331	A4568804	GROMMET-D
341	M0118702	CLIP-GUIDE (QTY 2)
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
571	M0221817	SCREW-SM (QTY AR)
671	10839803	GASKET-.12X.50 (QTY 6)
701	10839810	GASKET-.18X.38 (QTY 4)
701	10839810	GASKET-.18X.38 (QTY 4)
761	20155501	STRAP-ACCUM (M1, M2)
781	11190803	ACCUMULATOR (M1, M2)
821	20337202	LIQUID TUBE WELD (M1, M2)
821	20333608	TXV/LIQ WELD (M3)
831	20334405	SUCTION TUBE WELD (M2)
831	20334406	SUCTION TUBE WELD (M1)
851	20247105	FILLER-EVAP (M1, M2)
851	20247106	FILLER-EVAP (M3)
891	10839807	GASKET-.37X.75
971	20254101	BLANKET-SOUND
981	20212407	VALVE-EXP INDOOR (M3)
991	20212408	VALVE-EXP OUTDOOR (M3)
1001	20031203	CLAMP-TXV BULB (M3)
1011	B1369301	INSULATION (M3)
1021	M0229130	SCREW-SD (QTY 6)
9991	11096201	ORIFICE .051 (COND) (M2)

**Ref. Part
No: No:**

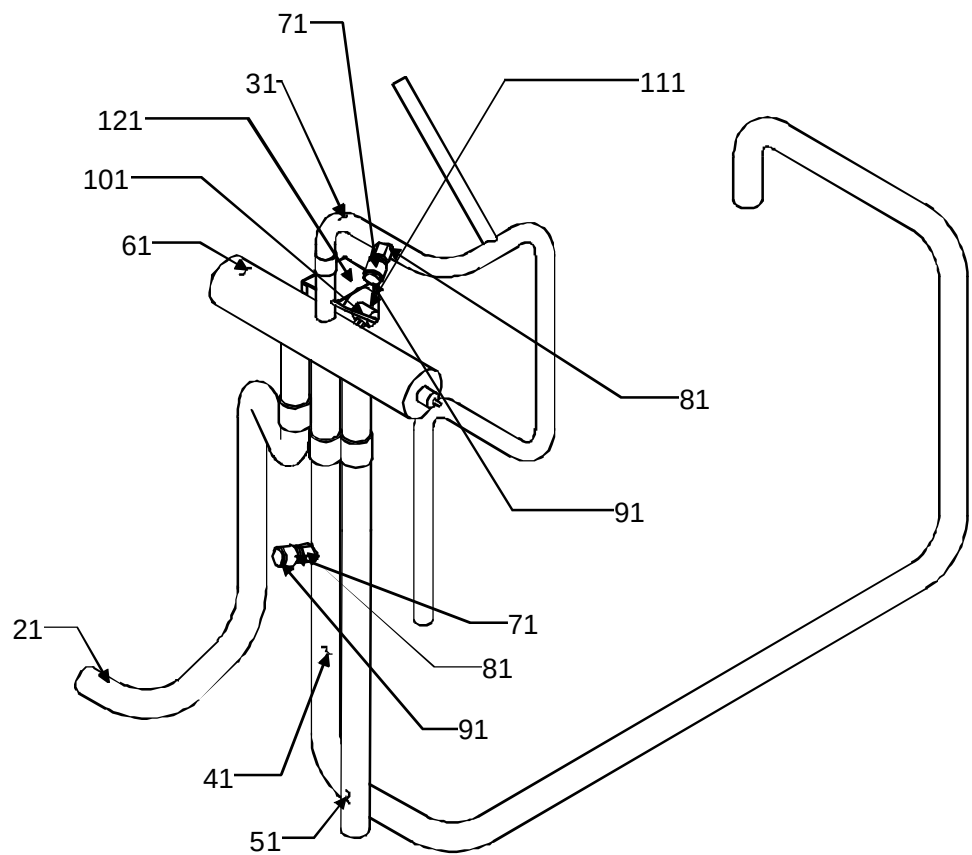
Description:

9991	11096220	ORIFICE .057 (COND) (M1)
9991	11096205	ORIFICE .063 (EVAP) (M2)
9991	11096216	ORIFICE .070 (EVAP) (M1)

Expanded Model and Color Nomenclature

M1 - PHD24CC2E1	P1240008C
M2 - PHD30CC2E1	P1240009C
M3 - PHD36CC2E1	P1240010C

Reversing Valve



Reversing Valve

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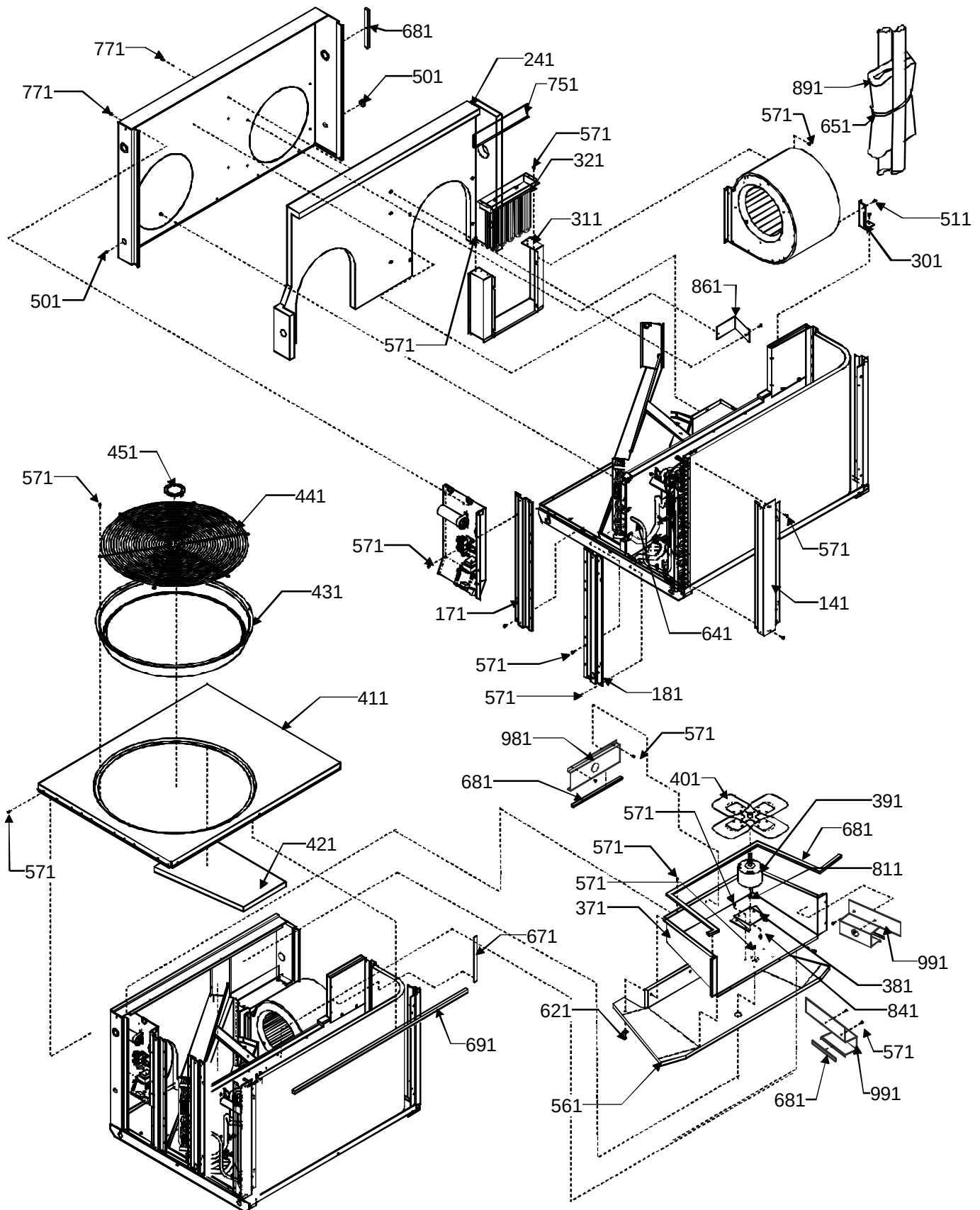
Image 1:

21	20332001	TUBE-EVAP/REV (M3)
21	20333901	TUBE-EVAP/REV (M1, M2)
31	20334201	DISCH TUBE WELD (M2)
31	20334202	DISCH TUBE WELD (M1)
31	20365504	TUBE WELD-DISCH (M3)
41	20333112	TUBE WELD-SUCT (M3)
41	20334001	TUBE-ACCUM/REV (M1, M2)
41	A4692801	VALVE-CORE (QTY 2)
41	A4692702	VALVE-DILL
51	10004647	TUBE-COND/REV (M1, M2)
51	20331901	TUBE-COND/REV (M3)
51	A4692801	VALVE-CORE
61	10680904	VALVE-REVERSING (M3)
61	10681001	VALVE-REVERSING (M1, M2)
71	A4692801	DILL-VALVE
81	A4692801	VALVE-CORE
91	A4692602	NUT-CAP
101	10702201	COIL-REV VALVE
111	10702401	LOCKNUT
121	10702301	COVER-COIL

Expanded Model and Color Nomenclature

M1 - PHD24CC2E1	P1240008C
M2 - PHD30CC2E1	P1240009C
M3 - PHD36CC2E1	P1240010C

Internal Components



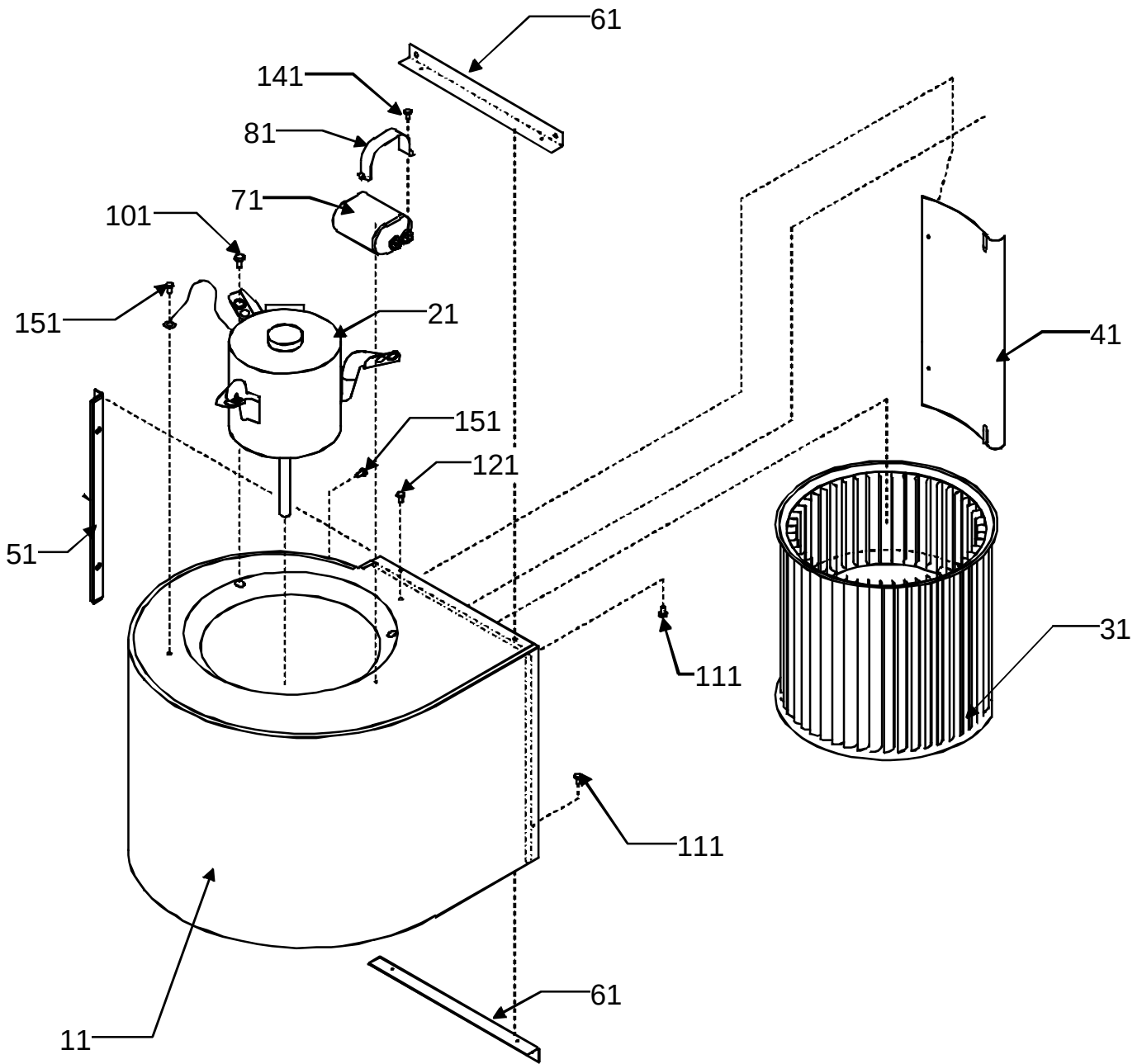
Internal Components

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
<i>Image 1:</i>			
141	20001704		POST CORNER (M3)
141	20001703		POST-CORNER (M1, M2)
181	11098720		POST-SIDE (M1, M2)
181	11098722		POST-SIDE (M3)
231	20001304		PANEL-BACK (M1, M2)
231	20001306		PANEL-BACK (M3)
241	20013801		INSULATION-BACK (M1, M2)
241	20013802		INSULATION-BACK (M3)
301	20013202		BRACKET-BLWR
311	20020701		HEATER BOX
321	20243701		10KW/HEAT-ELEMENT
371	11098304		PART-FAN
381	11099501		MOUNT-COND MTR
391	11112805		MOTOR-CONDENSER
401	11182905		FAN-CONDENSER CW
411	20000704		COVER-TOP
421	11182501		INSULATION-TOP
431	20171401		ORIFICE-COND
441	11112003		GRILLE-FAN
451	C6196704		PLATE-LOGO
501	A4603801		GROMMET (QTY 2)
511	M0250558		SCREW-TC
561	11197402		INSULATION-FAN PART
571	M0221817		SCREW-SM (QTY AR)
581	20244701		10KW CONT BOX (M1)
581	20244702		10KW CONT BOX (M2, M3)
621	11197701		WASHER-RETAINER (QTY 2)
641	M0275521		SEALER-PLASTIC (M1)
651	M0321202		TIE-ELEC LG (QTY 5)
671	10839803		GASKET-.12X.50 (QTY 6)
681	10839801		GASKET-.25X.50 (QTY AR)
691	10839712		GASKET .62X.75 (QTY 3)
751	20037201		HEATER BOX-BAF
771	M0220819		SCREW-SM (QTY 9)
811	20042802		GROMMET-ISLR (QTY 4)
841	M0280801		NUT-HEX (QTY 4)
891	10839807		GASKET-.37X.75
981	20248501		BAFFLE-SOUND (M1, M2)
991	20248401		BAFFLE-SOUND (M1, M2)
1041	20248502		BAFFLE-SOUND (M3)
1051	20248402		BAFFLE-SOUND (M3)
NS	10685012		HARNESS-COIL (M1, M2)
NS	10685013		HARNESS-COIL (M3)

Expanded Model and Color Nomenclature

M1 - PHD24CC2E1	P1240008C
M2 - PHD30CC2E1	P1240009C
M3 - PHD36CC2E1	P1240010C

Blower



Blower

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

11	20162503	BLOWER HSG WELD
21	20013001	MOTOR-EVAP (M1, M2)
21	20013002	MOTOR-EVAP (M3)
31	D6723302	WHEEL-BLOWER
41	C6121810	CUTOFF
51	10839803	GASKET-.12X.50
61	20021101	RAIL-BLOWER (QTY 2)
71	D6879747	CAPACITOR
81	A4055402	STRAP-CAPACITOR
101	M0250558	SCREW-TC (QTY 3)
111	M0221817	SCREW-SM (QTY 4)
121	M0211020	SCREW-SM #8-7/8 (QTY 2)
141	M0233716	SCREW-SD (QTY 2)
151	M0211017	SCREW-SM #8-1/2LG (QTY 3)

Expanded Model and Color Nomenclature

M1 - PHD24CC2E1	P1240008C
M2 - PHD30CC2E1	P1240009C
M3 - PHD36CC2E1	P1240010C

Control Box and Gaskets

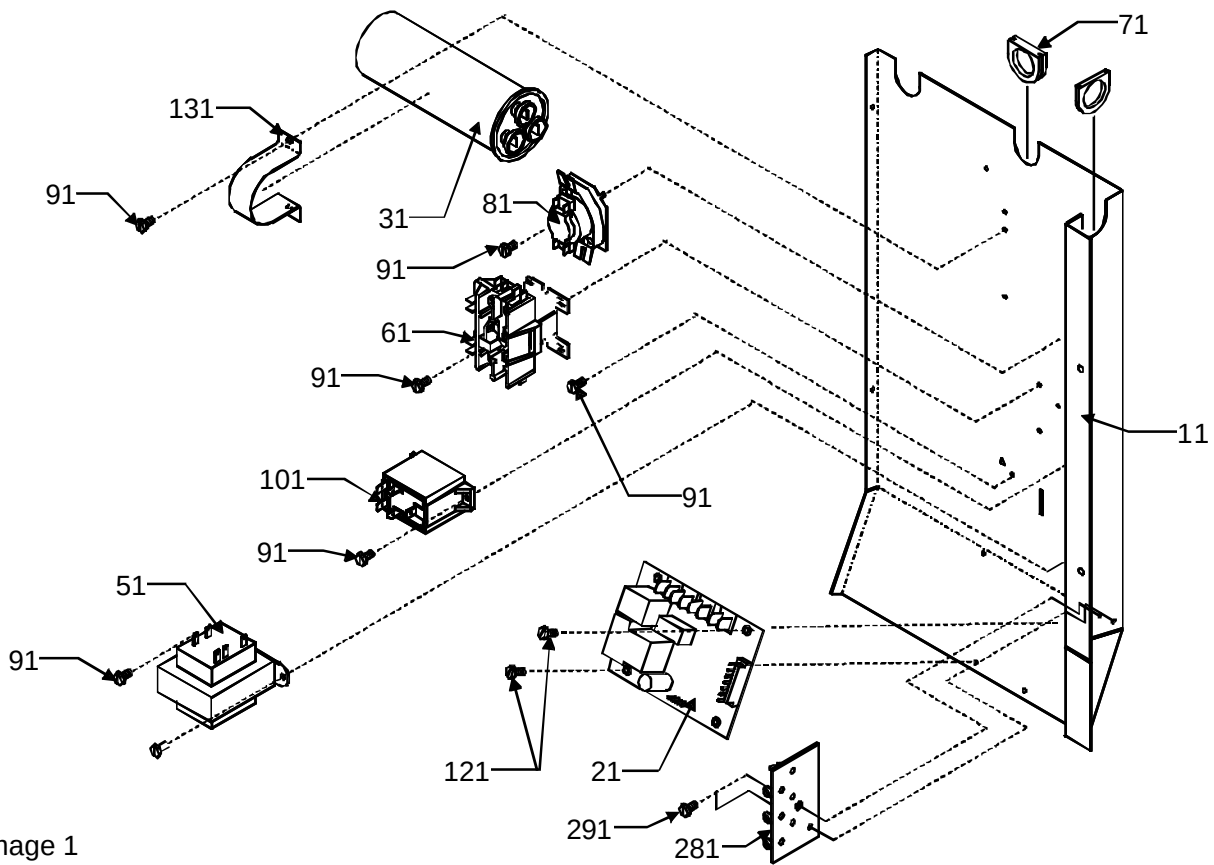
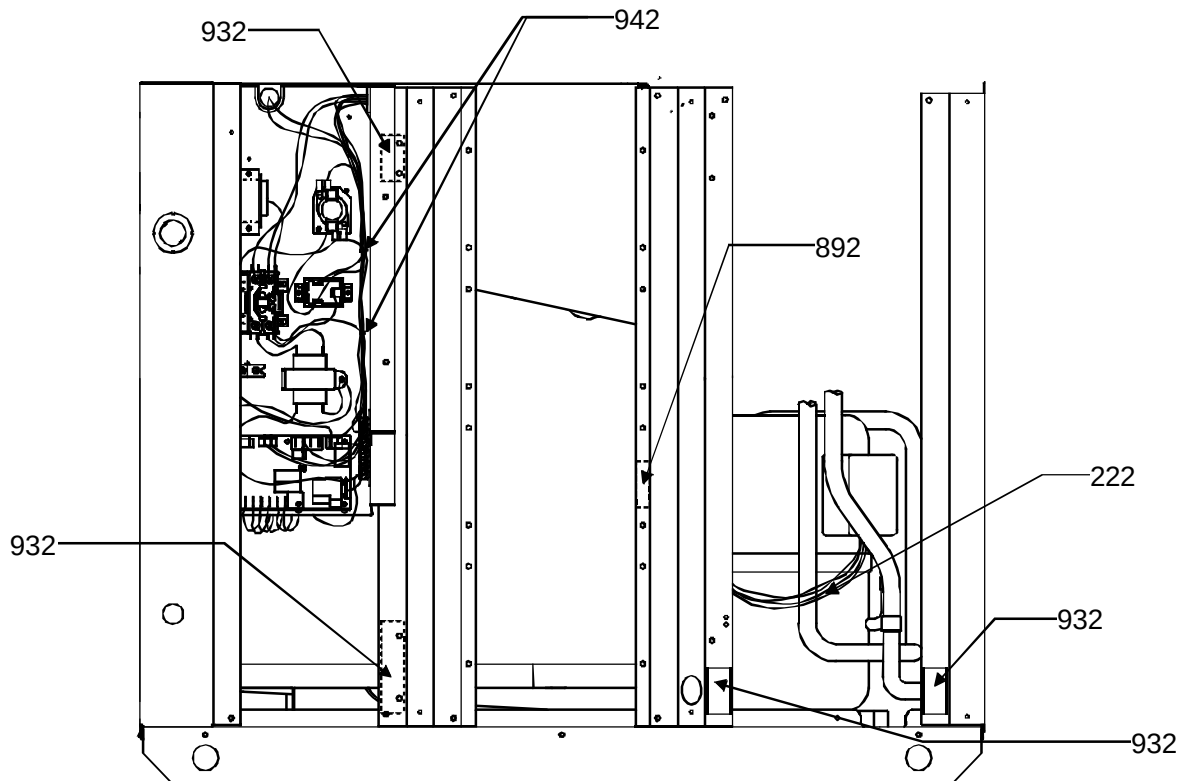


Image 1

Image 2



Control Box and Gaskets

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	20014104	CONTROL BOX
21	B1226008	BOARD-DEFROST
31	D6789059	CAPACITOR-ROUND (M2, M3)
31	D6789062	CAPACITOR-ROUND (M1)
51	11120302	TRANSFORMER
61	C6170002	CONTACTOR-30A
71	A4554820	BUSHING-SNAP (QTY 2)
81	M0385305	SWITCH
91	M0211016	SCREW-SM #8-3/8LG (QTY 9)
101	10135601	RELAY
121	M0216519	SCREW-SM (QTY 2)
131	C6300502	STRAP-CAPACITOR
281	20244002	BOARD-TERMINAL
291	M0211017	SCREW-SM #8-1/2LG (QTY 2)

Image 2:

222	20001401	HARNESS-COMP (M1, M2)
222	20203901	HARNESS-COMP (M3)
892	10839807	GASKET-.37X.75
932	10839811	GASKET-.12X1.0
942	M0321204	TIE-ELEC SM (QTY 4)

Expanded Model and Color Nomenclature

M1 - PHD24CC2E1	P1240008C
M2 - PHD30CC2E1	P1240009C
M3 - PHD36CC2E1	P1240010C