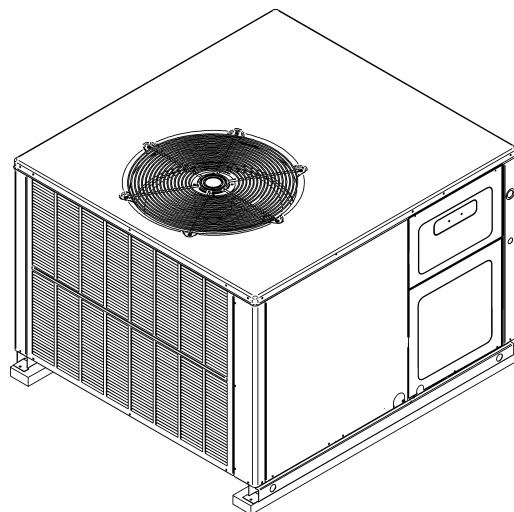




REPAIR PARTS

GPHM3 Residential Package Heat Pump

GPHM32431AA
GPHM33031AA
GPHM33631AA
GPHM34231AA
GPHM34831AA
GPHM36031AA



This manual is to be used by qualified technicians only.

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Important Information

Index

Functional Parts List	3
Illustration and Parts	4 - 13

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 Nomenclature:

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

Goodman Manufacturing Company, L.P. 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, Goodman Manufacturing Company, L.P. also recommends contacting an authorized technician and using authorized factory parts.

Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

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

Homeowner Support

Goodman Manufacturing Company, L.P.

19001 Kermier Road

Waller, Texas 77484

877-254-4729-Telephone

713-863-2382-Facsimile

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

International Division

Goodman Manufacturing Company, L.P.

19001 Kermier Road

Waller, Texas 77484

713-861-2500-Telephone

713-863-2382-Facsimile

Functional Parts

Part

No: Description:

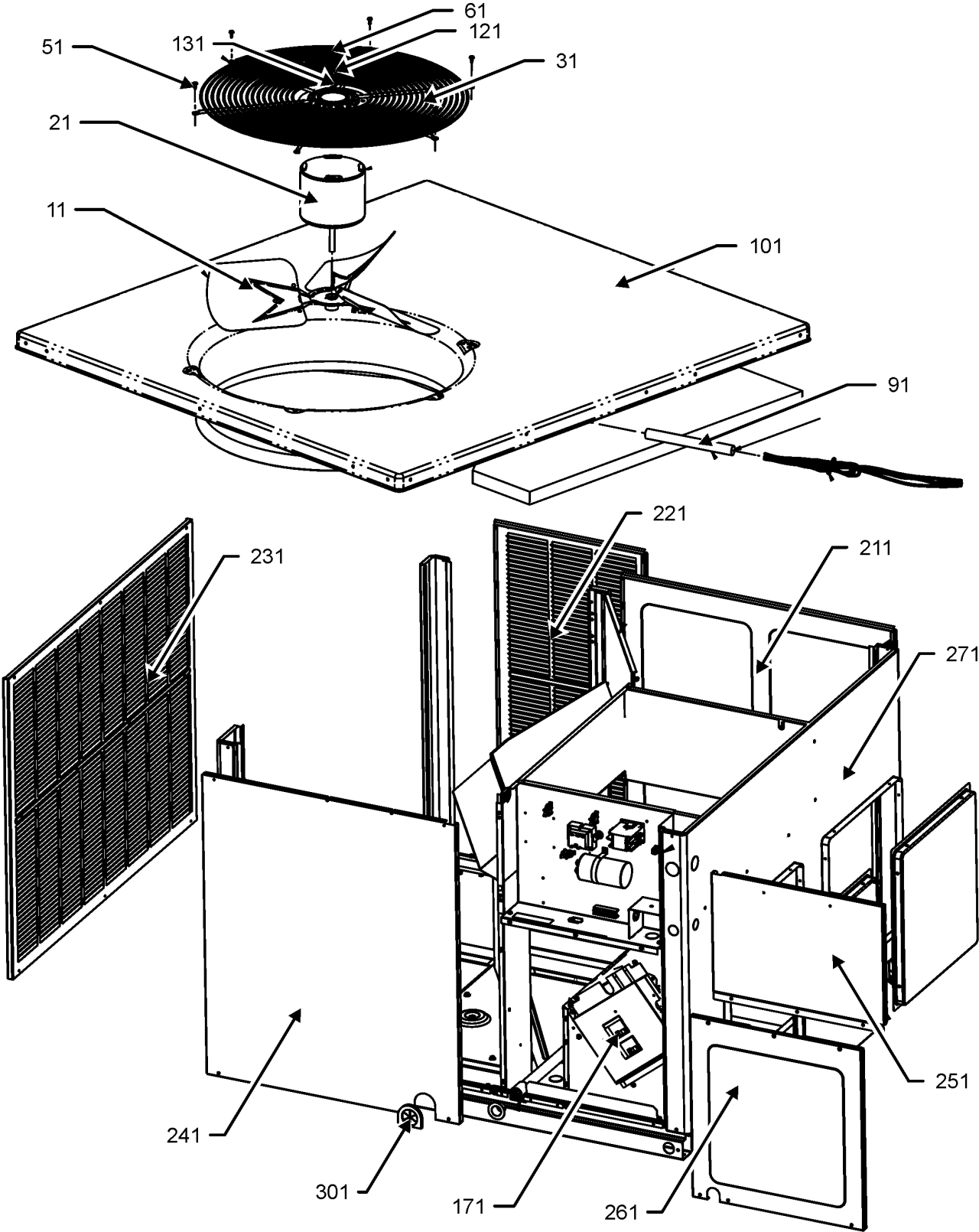
CAP100400440CT	CAP, 10/40 MFD, 440V/ DUAL RD (M6)
CAP100500440CT	CAP, 10/50 MFD/440V/DUAL RD (M5)
CAB050350440CS	CAP, 5/35 MFD/440V RD - BPRF (M1)
CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2, M3, M4)
YP21K1TPFVASE	COMPRESSOR (M1)
YPS51K1TPFVASC	COMPRESSOR (M6)
YP44K1TPFVASC	COMPRESSOR (M5)
YP38K1TPFVASC	COMPRESSOR (M4)
YP31K1TPFVASE	COMPRESSOR (M3)
YP25K1TPFVASE	COMPRESSOR (M2)
CONT1P030024D	CONT, 1 POLE, 30 AMP, 24VAC (M1, M2, M3)
CONT2P040024D	CONT, 2 POLE, 40 AMP, 24VAC (M4, M5, M6)
0130M00197	CONTROL DEFROST
0131M00749M	CONTROLLERLESS MOTOR (M6)
0131M00750M	CONTROLLERLESS MOTOR (M1, M2, M3)
0131M00747M	CONTROLLERLESS MOTOR (M4, M5)
0163R00021	HEATER CRANKCASE (M5, M6)
0130M00075	LOW PRESSURE SWITCH
0131M00430	MOTOR 1/3 HP 1 SP 6PL (M5, M6)
0131M00847	MOTOR, 1/4 HP, 1 SP, 6 PL (M4)
0131M00836	MOTOR, 1/4HP,1SP,8PL,AL (M1, M2, M3)
PCBDM133	PCB DEFROST CONTROL
PCBCM301V0001	PCB, CONTROL, AIR HANDLER
0131G00170	PROGRAMMED CONTROLLER (M2)
0131G20022	PROGRAMMED CONTROLLER (M1)
0131G00173	PROGRAMMED CONTROLLER (M5)
0131G00172	PROGRAMMED CONTROLLER (M4)
0131G00171	PROGRAMMED CONTROLLER (M3)
0131G20024	PROGRAMMED CONTROLLER (M6)
0130M00242	RELAY 24V (M6)
0151R00069	REVERSING VALVE (M1, M2)
0151R00071	REVERSING VALVE (M3, M4, M5, M6)
0130M00199	SWITCH CRANK CASE HEATER (M5, M6)
0130M00138	TRANSFORMER 208/230 24V
0151G20017	VALVE, TXV (M6)
0151G20005	VALVE, TXV (M6)

Expanded Model Nomenclature

M1 - GPHM32431AA M2 - GPHM33031AA M3 - GPHM33631AA M4 - GPHM34231AA M5 - GPHM34831AA M6 - GPHM36031AA
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TOP PANEL AND CABINET ASSEMBLY

TOP PANEL AND CABINET ASSEMBLY



TOP PANEL AND CABINET ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

TOP PANEL AND CABINET ASSEMBLY

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0150G00002		FAN BLADE SWP/W (M3, M4, M5, M6)
11	0150M00008		FAN BLADE, 22" TNT2203-25 (M1, M2)
21	0131M00430		MOTOR 1/3 HP 1 SP 6PL (M5, M6)
21	0131M00847		MOTOR, 1/4 HP, 1 SP, 6 PL (M4)
21	0131M00836		MOTOR, 1/4HP,1SP,8PL,AL (M1, M2, M3)
31	0152G00000		FAN GRILLE, RAISED (M3, M4, M5, M6)
31	0152G00003		GRILLE-FAN (M1, M2)
51	M0221817		SCREW SM (QTY 4)
61	0163M00006P		NUT ACORN 5/16 HEX BLACK (QTY 4)
91	0161R00123		CONDUIT
101	0121G00887PDG		PNL TOP PNT
121	0163M00005P		WASHER BLACK .50 OD .218ID (QTY 4)
131	M0272803		WASHER LOCK
171	0121G00725		COVER HK (QTY 2)
211	20464801PDG		DOOR - BLOWER 32 W/PAINT (M1, M2, M3)
211	20464806PDG		DOOR - BLOWER 40 W/PAINT (M4, M5, M6)
221	20467701PDG		PANEL - COND SIDE 32 W/PAINT (M1, M2, M3)
221	20467702PDG		PANEL - COND SIDE 40 W/PAINT (M4, M5, M6)
231	0121G00728DG		PANEL-COND LOUVERED 32 (M1, M2, M3)
231	0121G00729DG		PANEL-COND LOUVERED 40 (M4, M5, M6)
241	0121G00659DG		COMPRESSOR PANEL (M5, M6)
241	0121G00662DG		COMPRESSOR PANEL (M1, M2, M3)
241	0121G00663DG		COMPRESSOR PANEL (M4)
251	0121G20040DG		PAINTED, PANEL, CB CNVRT
261	0121G20039DG		PAINTED, BLOWER PNL CNVRT 32.5 (M1, M2, M3)
261	0121G00883DG		PNL, PAINTED 40" BLWR (M4, M5, M6)
271	0121G00800DG		PNL, DUCT, CNVRT, 32.5" PNT (M1, M2, M3)
271	0121G00801DG		PNL, DUCT, CNVRT, 40" PNT (M4, M5, M6)
301	0164G00005		GROMMET HORSESHOE 1.675
NS	0164M00111		GROMMET D
NS	B1392012		GROMMET HS 1.0 - .79

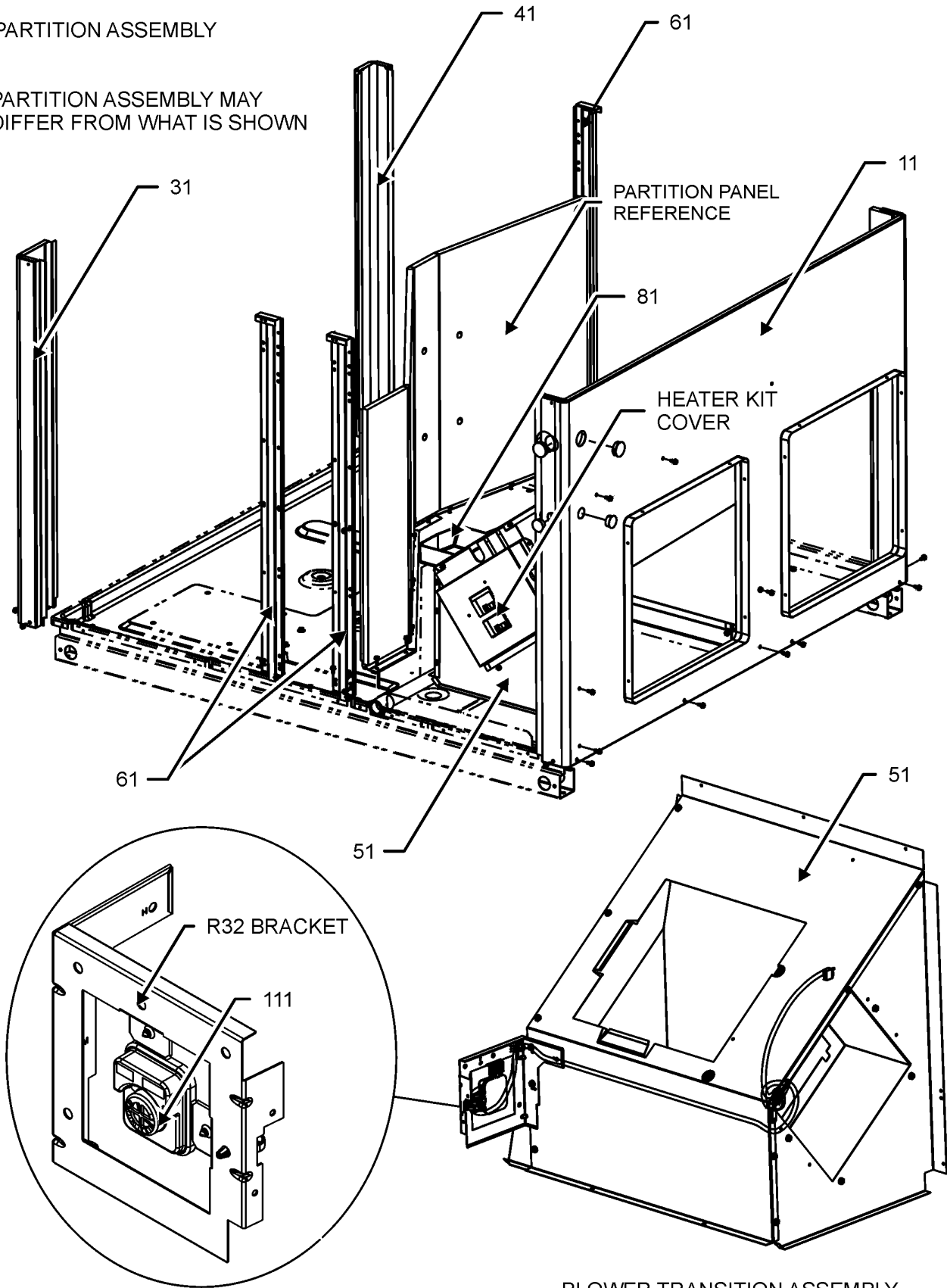
Expanded Model Nomenclature

M1 - GPHM32431AA
M2 - GPHM33031AA
M3 - GPHM33631AA
M4 - GPHM34231AA
M5 - GPHM34831AA
M6 - GPHM36031AA

PARTITION ASSEMBLY

PARTITION ASSEMBLY

PARTITION ASSEMBLY MAY
DIFFER FROM WHAT IS SHOWN



BLOWER TRANSITION ASSEMBLY

PARTITION ASSEMBLY

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

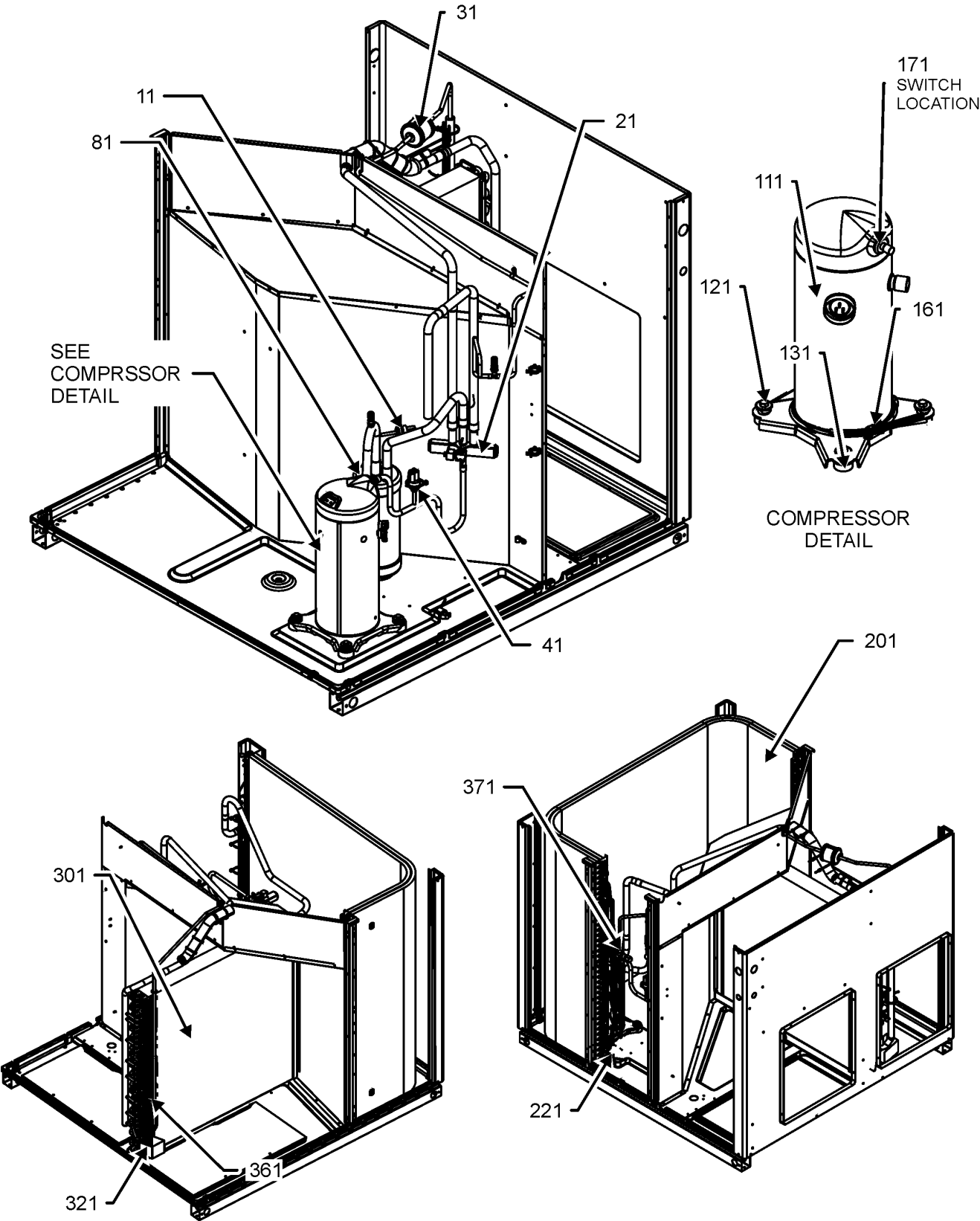
11	0121G00800DG	PNL, DUCT, CNVRT, 32.5" PNT (M1, M2, M3)
11	0121G00801DG	PNL, DUCT, CNVRT, 40" PNT (M4, M5, M6)
31	20464201PDG	CRNR POST-COMP END 32 W/PAINT (M1, M2, M3)
31	20464202PDG	CRNR POST-COMP END 40 W/PAINT (M4, M5, M6)
41	20464301PDG	CRNR POST-HPIN END 32 W/PAINT (M1, M2, M3)
41	20464302PDG	CRNR POST-HPIN END 40 W/PAINT (M4, M5, M6)
51	0221G00020	R32 BLOWER TRANSITION ASSEMBLY
61	0121G00460	POST-SUPPORT, SIDE (M1, M2, M3)
61	0121G00615	POST-SUPPORT, SIDE 40 (M4, M5, M6)
81	0161G00003	DRIP PAN PLASTIC
111	SER2A08012	SENSATA, R32 SENSOR
NS	0121G20000	BRACKET, R32 SENSOR
NS	0261G00001	PIPE DRAIN

Expanded Model Nomenclature

M1 - GPHM32431AA M2 - GPHM33031AA M3 - GPHM33631AA M4 - GPHM34231AA M5 - GPHM34831AA M6 - GPHM36031AA
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TUBING ASSEMBLY

TUBING ASSEMBLY



TUBING ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

TUBING ASSEMBLY

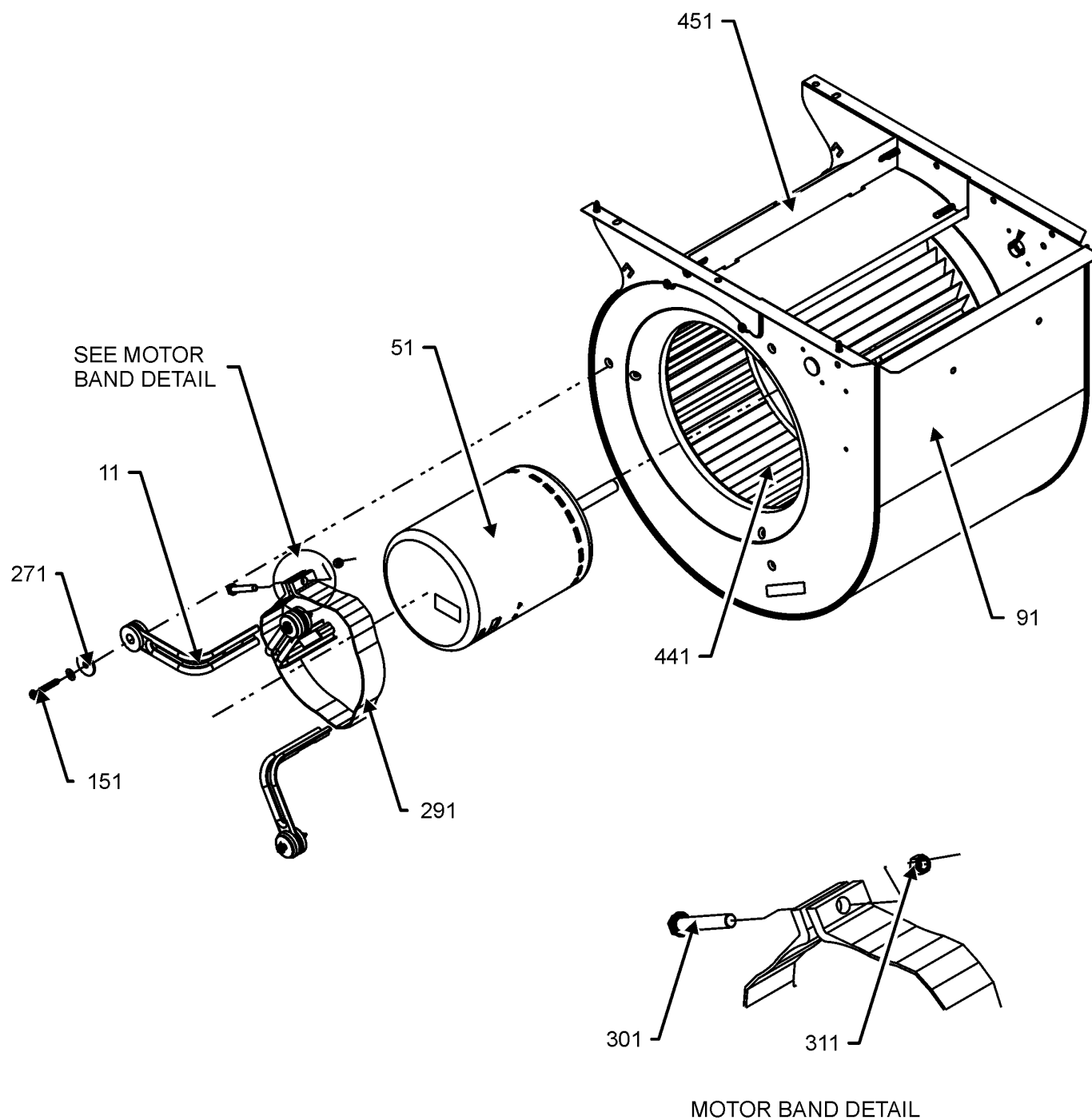
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0130M00075		LOW PRESSURE SWITCH
21	0151R00069		REVERSING VALVE (M1, M2)
21	0151R00071		REVERSING VALVE (M3, M4, M5, M6)
31	0162R00056		FILTER/DRIER BI FLOW
41	0130M20009		HIGH PRESSURE SWITCH
81	B1226206		ACCUMULATOR (M1, M2)
81	B1226207		ACCUMULATOR (M3, M4, M5, M6)
111	YP21K1TPFVASE		COMPRESSOR (M1)
111	YP25K1TPFVASE		COMPRESSOR (M2)
111	YP31K1TPFVASE		COMPRESSOR (M3)
111	YP38K1TPFVASC		COMPRESSOR (M4)
111	YP44K1TPFVASC		COMPRESSOR (M5)
111	YPS51K1TPFVASC		COMPRESSOR (M6)
121	B1339533		GROMMET COMPRESSOR SCROLL (QTY 4)
131	M0221641		SCREW SHOULD TF (QTY 4)
161	0163R00021		HEATER CRANKCASE (M5, M6)
171	0130M00199		SWITCH CRANK CASE HEATER (M5, M6)
201	0201G20007		COND COIL ASSEMBLY (M6)
201	0201G20030		COND COIL TUBING ASSEMBLY (M1)
201	0201G20031		COND COIL TUBING ASSEMBLY (M2)
201	0201G20032		COND COIL TUBING ASSEMBLY (M3)
201	0201G20033		COND COIL TUBING ASSEMBLY (M4)
201	0201G20034		COND COIL TUBING ASSEMBLY (M5)
221	0130M00197		CONTROL DEFROST
301	0202G20028		COIL TUBING ASSEMBLY (M6)
301	0202G20048		COIL TUBING ASSEMBLY (M1)
301	0202G20049		COIL TUBING ASSEMBLY (M2)
301	0202G20050		COIL TUBING ASSEMBLY (M3)
301	0202G20051		COIL TUBING ASSEMBLY (M4)
301	0202G20053		COIL TUBING ASSEMBLY (M5)
321	0121G00509		SHIELD DRIP
361	0151G20005		VALVE, TXV (M6)
371	0151G20017		VALVE, TXV (M6)
NS	B1373315		ACCESS FITTING (QTY 2)
NS	0159G00001		COMPRESSOR SOLENOID CABLE (M6)
NS	0163M00629		RED CAP WITH O-RING (QTY 2)
NS	B1225022		SOLENOID COIL

Expanded Model Nomenclature

M1 - GPHM32431AA M2 - GPHM33031AA M3 - GPHM33631AA M4 - GPHM34231AA M5 - GPHM34831AA M6 - GPHM36031AA
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BLOWER ASSEMBLY

BLOWER ASSEMBLY



BLOWER ASSEMBLY MAY DIFFER FROM WHAT SHOWN

BLOWER ASSEMBLY

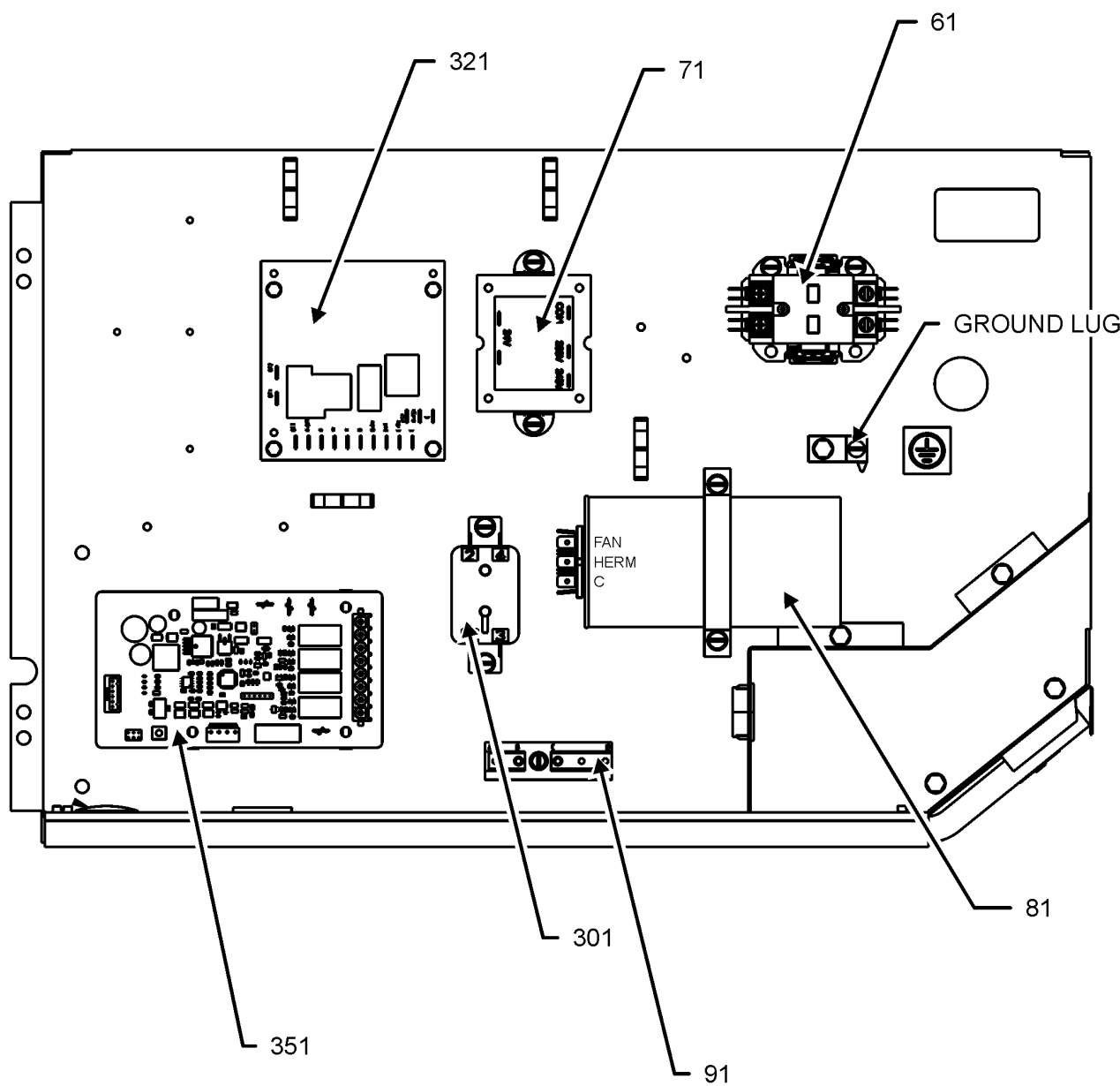
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	B1376857		MOTOR MOUNT ARM (QTY 3)
51	0131M00747M		CONTROLLERLESS MOTOR (M4, M5)
51	0131M00749M		CONTROLLERLESS MOTOR (M6)
51	0131M00750M		CONTROLLERLESS MOTOR (M1, M2, M3)
51	0131G00170		PROGRAMMED CONTROLLER (M2)
51	0131G00171		PROGRAMMED CONTROLLER (M3)
51	0131G00172		PROGRAMMED CONTROLLER (M4)
51	0131G00173		PROGRAMMED CONTROLLER (M5)
51	0131G20022		PROGRAMMED CONTROLLER (M1)
51	0131G20024		PROGRAMMED CONTROLLER (M6)
91	0271G00024		BLOWER HOUSING ASSY 10X9
151	M0250565		SCREW TC 1.25 (QTY 3)
271	B1392918		WASHER FLAT 1/4 ID X 1 OD (QTY 3)
291	0121M00038		MOUNT BAND MOTOR
301	B1393323		SCREW MACH HWH 1/4 20X1 1/2BZ
311	B1393800		LOCKNUT NYLON INSERT 1/4 20
441	D6723303		WHEEL BLOWER
451	764742		BLOCK OFF - BLOWER
NS	0259G00155		BLOWER HARNESS ASSEMBLY
NS	M0221817		SCREW SM (QTY 4)

Expanded Model Nomenclature

M1 - GPHM32431AA M2 - GPHM33031AA M3 - GPHM33631AA M4 - GPHM34231AA M5 - GPHM34831AA M6 - GPHM36031AA
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CONTROL BOX ASSEMBLY

CONTROL BOX ASSEMBLY



CONTROL BOX ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

CONTROL BOX ASSEMBLY

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

61	CONT1P030024D	CONT, 1 POLE, 30 AMP, 24VAC (M1, M2, M3)
61	CONT2P040024D	CONT, 2 POLE, 40 AMP, 24VAC (M4, M5, M6)
71	0130M00138	TRANSFORMER 208/230 24V
81	CAP100400440CT	CAP, 10/40 MFD, 440V/ DUAL RD (M6)
81	CAP100500440CT	CAP, 10/50 MFD/440V/DUAL RD (M5)
81	CAB050350440CS	CAP, 5/35 MFD/440V RD - BPRF (M1)
81	CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2, M3, M4)
91	802007090	TERM BOARD
301	0130M00242	RELAY 24V (M6)
321	PCBDM133	PCB DEFROST CONTROL
351	PCBCM301V0001	PCB, CONTROL, AIR HANDLER
NS	0259G00158	COMPRESSOR HARNESS ASSEMBLY (M6)
NS	0259G00247	COMPRESSOR HARNESS ASSEMBLY (M1, M2, M3, M4)
NS	0259G00260	COMPRESSOR HARNESS ASSY (M5)
NS	B1392012	GROMMET / HS 1.0 - .79
NS	0159G00004	HARNESS-COMP SCROLL (M6)
NS	0159G00014	HARNESS-COMP SCROLL (M1, M2, M3, M4, M5)
NS	B1378533	LUG, GROUND SMALL, 4T
NS	20520901	STRAP CAPACITOR

Expanded Model Nomenclature

M1 - GPHM32431AA
M2 - GPHM33031AA
M3 - GPHM33631AA
M4 - GPHM34231AA
M5 - GPHM34831AA
M6 - GPHM36031AA