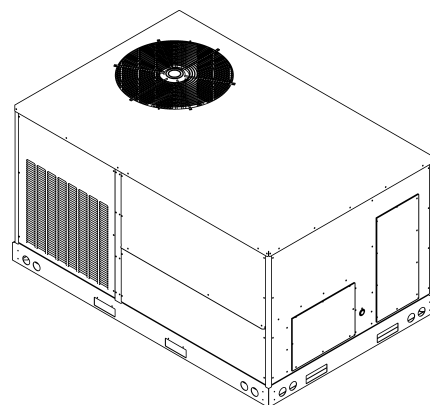




REPAIR PARTS

GPBM5 Residential Package Heat Pump

GPBM56031AA



This manual is to be used by qualified technicians only.

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Important Information

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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:

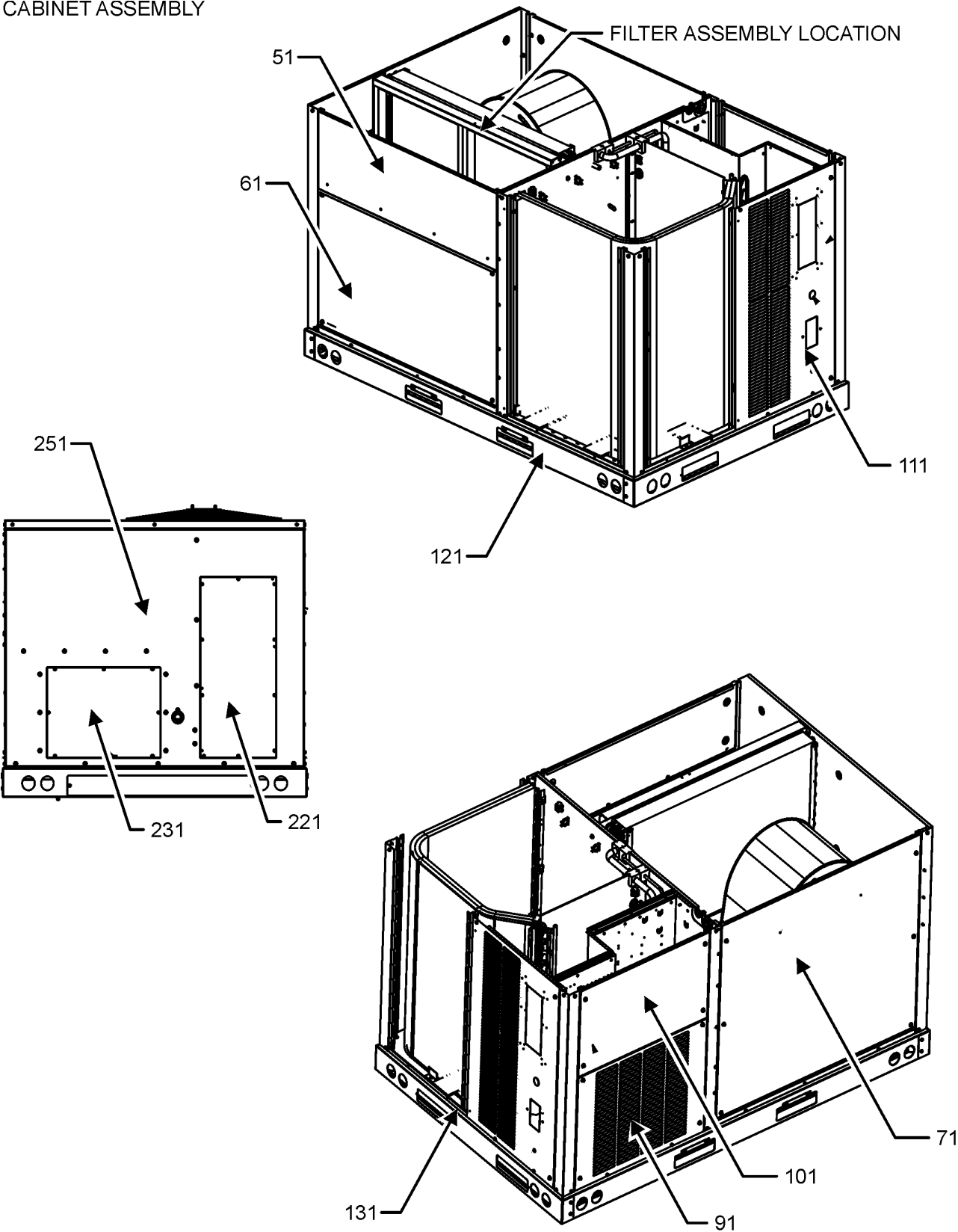
10625733	BLADE-FAN 22" ALUM CCW
CAP400000440CS	CAP,40MFD/440V/SINGLERD
YPS51K1TPFVASC	COMPRESSOR
CONT2P040024D	CONT, 2 POLE, 40 AMP, 24VAC
0130M00101	CONTROL DEFROST
0130M00583	CONTROL DEFROST
0130M00178	DPDT RELAY 24VAC (QTY 5)
0251L00245	EXPANSION VALVE ASSEMBLY
0251L00246	EXPANSION VALVE ASSEMBLY
0130M00583	FREEZE STAT
0130L00209	HEATER, CRANKCASE 240V, 40W
0131M00910	MOTOR
PCBCM301V0001	PCB CONTROL CIR HANDLER
PCBDM133	PCB, DEFROST CONTROL
0131L00709	PROGRAMMED, MOTOR
10135604	RELAY
0151R00071	REVERSING VALVE
SER2A08012	SENSATA R32 SENSOR
B1225022	SOLENOID COIL
0130M00199	SWITCH, CRANK CASE HEATER
0130M00730	SWITCH, HIGH PRESSURE
0130M00733	SWITCH, LOW PRESSURE
0130M00615	THERMOSTAT, OUTDOOR
0130L00319	TRANSFORMER

Expanded Model Nomenclature

M1 - GPHM56031AA

CABINET ASSEMBLY

CABINET ASSEMBLY



CABINET ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

CABINET ASSEMBLY

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

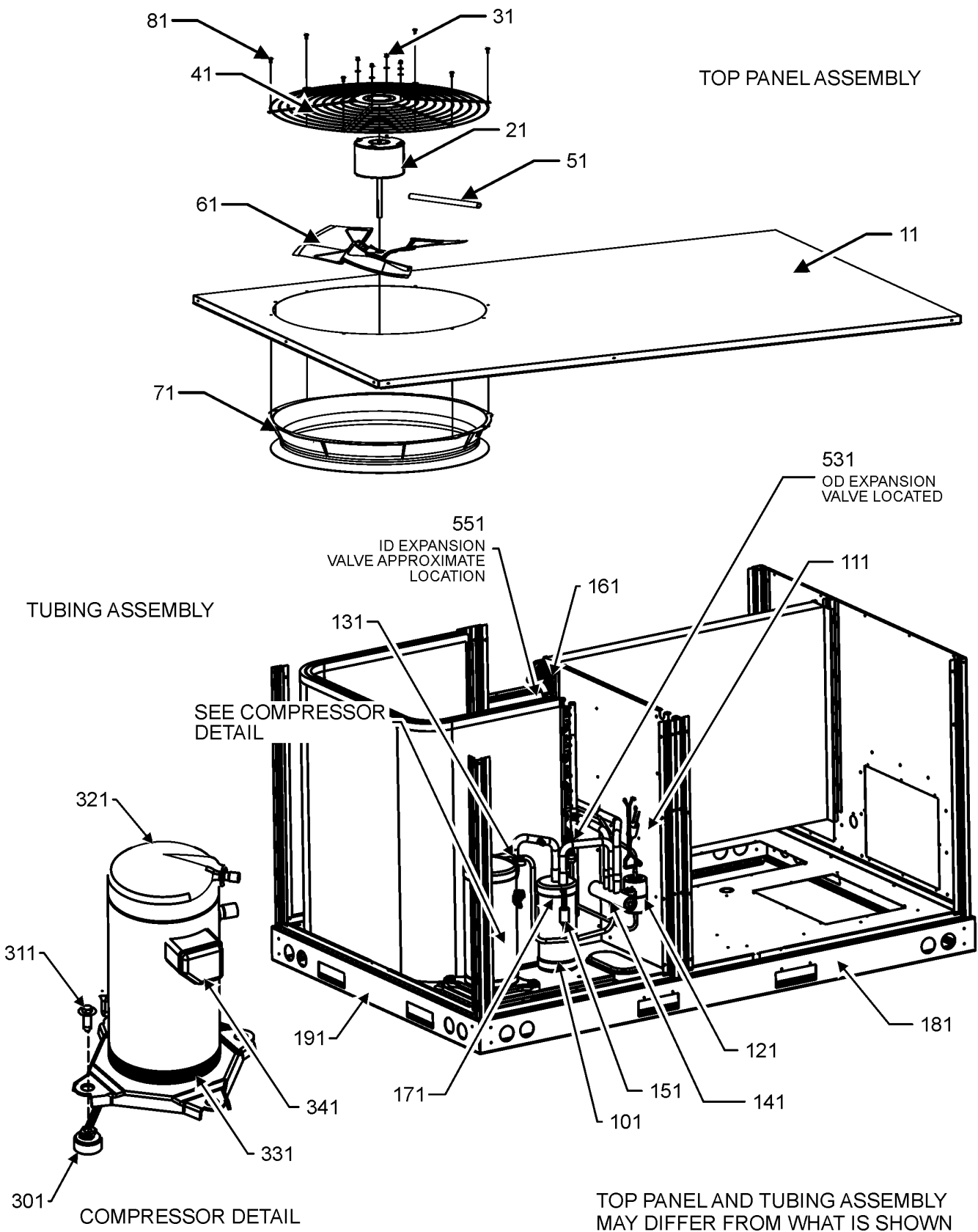
51	0121L01650DG	PAINTED FILTER PANEL
61	0121L01651DG	PAINTED ECONOMIZER PANEL
71	0121L04853DG	PAINTED, PANEL, BLOWER
91	0121L02265DG	PAINTED COMPRESSOR PANEL
101	0121L02262DG	PAINTED CONTROL BOX PANEL
111	0121L03643DG	PNT., COMPRESSOR BACK PANEL
121	0121L04850	RAIL, SIDE (QTY 2)
131	0121L04776	END RAIL
221	0121L02910DG	PAINTED COVER-DUCT RETURN
231	0121L02911DG	PAINTED COVER-DUCT SUPPLY
251	0121L05126DG	PAINTED BACK PANEL
NS	0270L01444	ASSY FILTER HOLDER
NS	0121L01654DG	PAINTED HAIL GUARD PANEL
NS	0121L01655DG	PAINTED HAIL GUARD PANEL

Expanded Model Nomenclature

M1 - GPHM56031AA

TOP PANEL AND TUBING ASSEMBLY

TOP PANEL AND TUBING ASSEMBLY



TOP PANEL AND TUBING ASSEMBLY

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

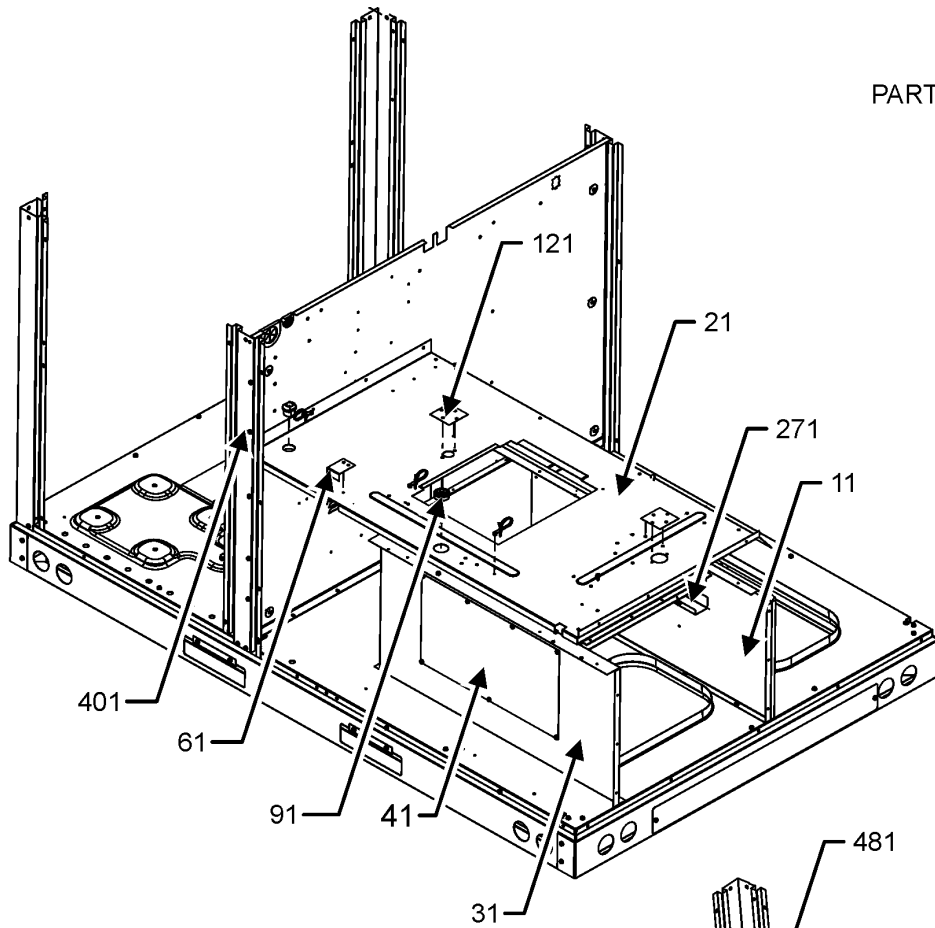
11	0121L01626SB	PAINTED, TOP PANEL
21	0131M00910	MOTOR
31	0163M00006P	ACORN NUT 5/16 HEX BLACK (QTY 4)
41	0152G00000	FAN GRILLE, RAISED
51	0161R00124	CONDUIT
61	10625733	BLADE-FAN 22" ALUM CCW
71	0161R00048	MOLDED RING-VENTURI 22
81	0163M00004	SCREW #10X3/4", BLACK (QTY 8)
101	0151L00008	ACCUMULATOR
111	0130M00733	SWITCH, LOW PRESSURE
121	0162R00056	FILTER/DRIER-BI-FLOW
131	0130M00199	SWITCH, CRANK CASE HEATER
141	0151R00071	REVERSING VALVE
151	0130M00730	SWITCH, HIGH PRESSURE
161	0130M00583	CONTROL DEFROST
171	0130M00101	CONTROL DEFROST
181	0121L04850	SIDE RAIL (QTY 2)
191	0121L01621	END RAIL
301	B1339533	COMPRESSOR GROMMET (QTY 4)
311	B1393740	COMP. BOLT & SLEEVE (QTY 4)
321	YPS51K1TPFVASC	COMPRESSOR
331	0130L00209	HEATER, CRANKCASE 240V, 40W
341	0159L00027	HARNESS-COMP SCROLL
531	0251L00246	EXPANSION VALVE ASSEMBLY
551	0251L00245	EXPANSION VALVE ASSEMBLY
NS	B1373315	ACCESS FITTING (QTY 2)
NS	0141L00003X	BOARD-FORK (QTY 2)
NS	0159G00010	CABLE, COMPR SOL
NS	0130M00583	FREEZE STAT
NS	0121L03516	PNL, BRACKET, FORK BOARD (QTY 4)
NS	0163M00629	RED CAP WITH O-RING (QTY 3)
NS	B1225022	SOLENOID COIL
NS	0163M00005P	WASHER, BLACK (.50 OD .218ID) (QTY 4)

Expanded Model Nomenclature

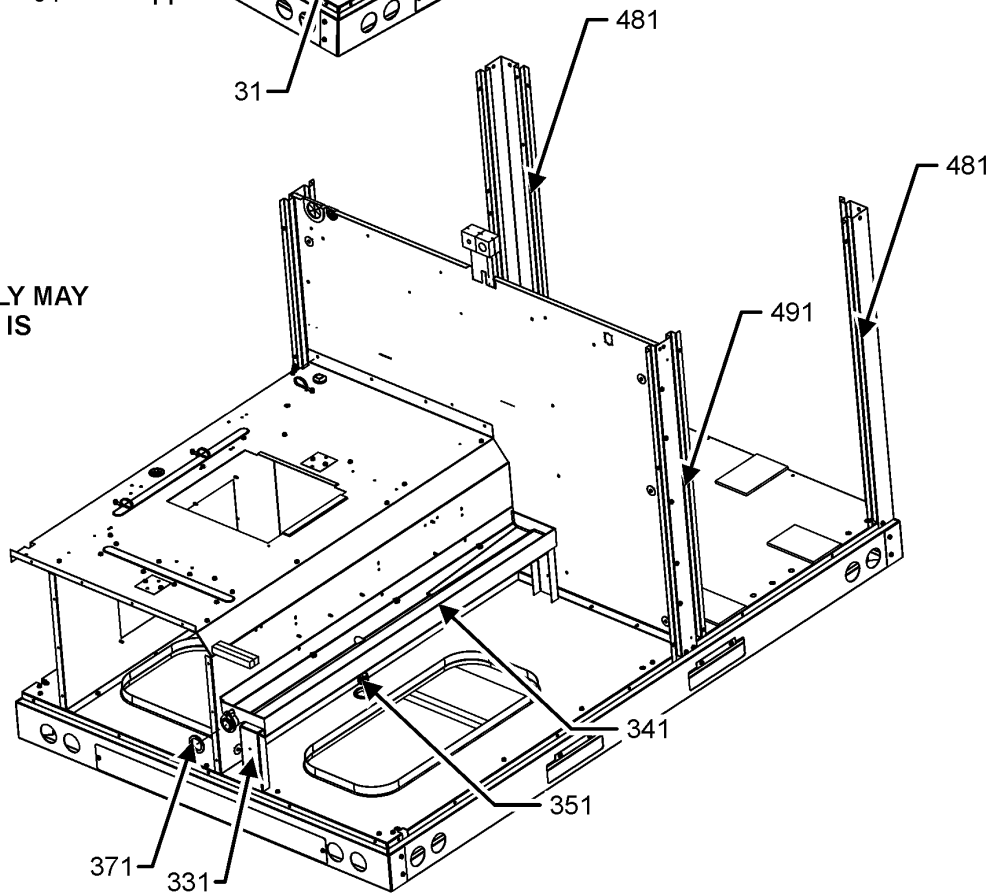
M1 - GPHM56031AA

PARTITION PANEL

PARTITION ASSEMBLY



PARTITION ASSEMBLY MAY
DIFFER FROM WHAT IS
SHOWN



PARTITION PANEL

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

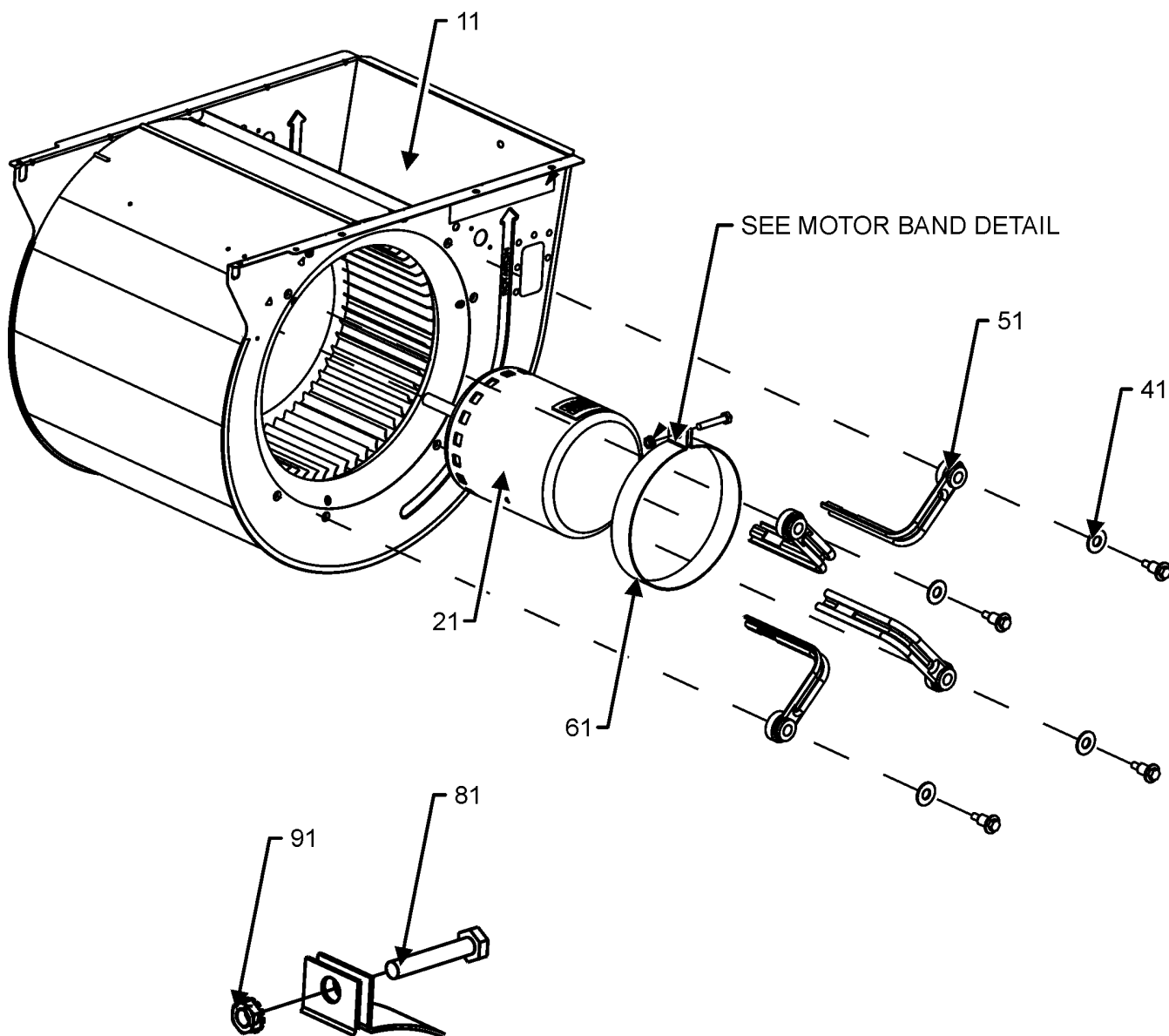
11	0121L05686	SIDE, BLOWER DECK
21	0121L05160	PANEL, BLOWER DECK
31	0121L04424	HEAT KIT BOX
41	0121L00144	COVER-ELECTRIC HEAT
61	0121L01709	BLOWER DECK PLATE
91	B1392147	UNIVERSIAL BUSHING WITH SLICE
121	0121L00321	COVER-SMOKE DETECTOR (QTY 2)
271	0121L02633	BLOWER DECK U-BRACKET
331	0121L01628	DRAINPAN SUPPORT
341	0161L00007	DRAIN PAN, EVAPORATOR 3-5 TON
351	0163L00071	PLUG, DRAIN
371	0154L00180	GASKET, DRAIN PAN
401	0121L04308DG	PAINTED, SIDE POST
481	0121L01625DG	PAINTED CORNER POST (QTY 2)
491	0121L03445DG	PAINTED SIDE POST
NS	0164M00111	GROMMET-D
NS	0164G00005	GROMMET-HORSESHOW 1.675
NS	0121L03515	RETAINER - ELECTRIC HEAT

Expanded Model Nomenclature

M1 - GPHM56031AA

BLOWER ASSEMBLY

BLOWER ASSEMBLY



MOTOR BAND DETAIL

BLOWER ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

BLOWER ASSEMBLY

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	0271L00133	ASSY., HOUSING, BLWR
21	0131L00709	PROGRAMMED, MOTOR
31	M0250565	SCREW-TC 1.25" (QTY 4)
41	B1392918	WASHER, FLAT 1/4 ID X 1 OD (QTY 8)
51	0163A00008	MOTOR MOUNTING ARM (QTY 4)
61	10441601	BAND-MTR MOUNT
81	0163M00320	HEX HEAD ALL THREAD TAP BOLT
91	B1393800	LOCKNUT, NYLON, INSERT 1/4,20

Expanded Model Nomenclature

M1 - GPHM56031AA

CONTROL BOX ASSEMBLY



CONTROL BOX ASSEMBLY

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
41	10135604		RELAY
61	0130M00038		TERMINAL BOARD
81	802007090		TERM BOARD
91	0130L00319		TRANSFORMER
161	0130M00510		BLOCK, POWER
231	CAP400000440CS		CAP,40MFD/440V/SINGLERD
241	CONT2P040024D		CONT, 2 POLE, 40 AMP, 24VAC
251	CONT2P040024D		CONT, 2 POLE, 40 AMP, 24VAC
311	PCBDM133		PCB, DEFROST CONTROL
721	CONT2P040024D		CONT, 2 POLE, 40 AMP, 24VAC
801	0130M00178		DPDT RELAY 24VAC (QTY 5)
881	0130M00615		THERMOSTAT, OUTDOOR
921	SER2A08012		SENSATA R32 SENSOR
931	10135604		RELAY
941	PCBCM301V0001		PCB CONTROL CIR HANDLER
NS	0164M00079		BOOT-CAPACITOR, ROUND
NS	0130M00507		MOTOR POWER HARNESS
NS	0130M00507		POWER HARNESS
NS	20520901		STRAP-CAPACITOR
NS	0259L02254		WIRE HARNESS ASSY.
NS	0259L02255		WIRE HARNESS ASSY.

Expanded Model Nomenclature

M1 - GPHM56031AA
