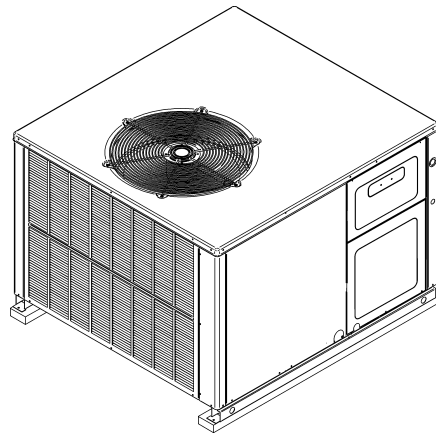




REPAIR PARTS

GPCM3 Residential Package Air Conditioner

GPCM32431AA
GPCM33031AA
GPCM33631AA
GPCM34231AA
GPCM34831AA
GPCM36031AA



This manual is to be used by qualified technicians only.

© 2025 Goodman Manufacturing Company, L.P. ♦ 19001 Kermier Rd. ♦ Waller, TX 77484

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:

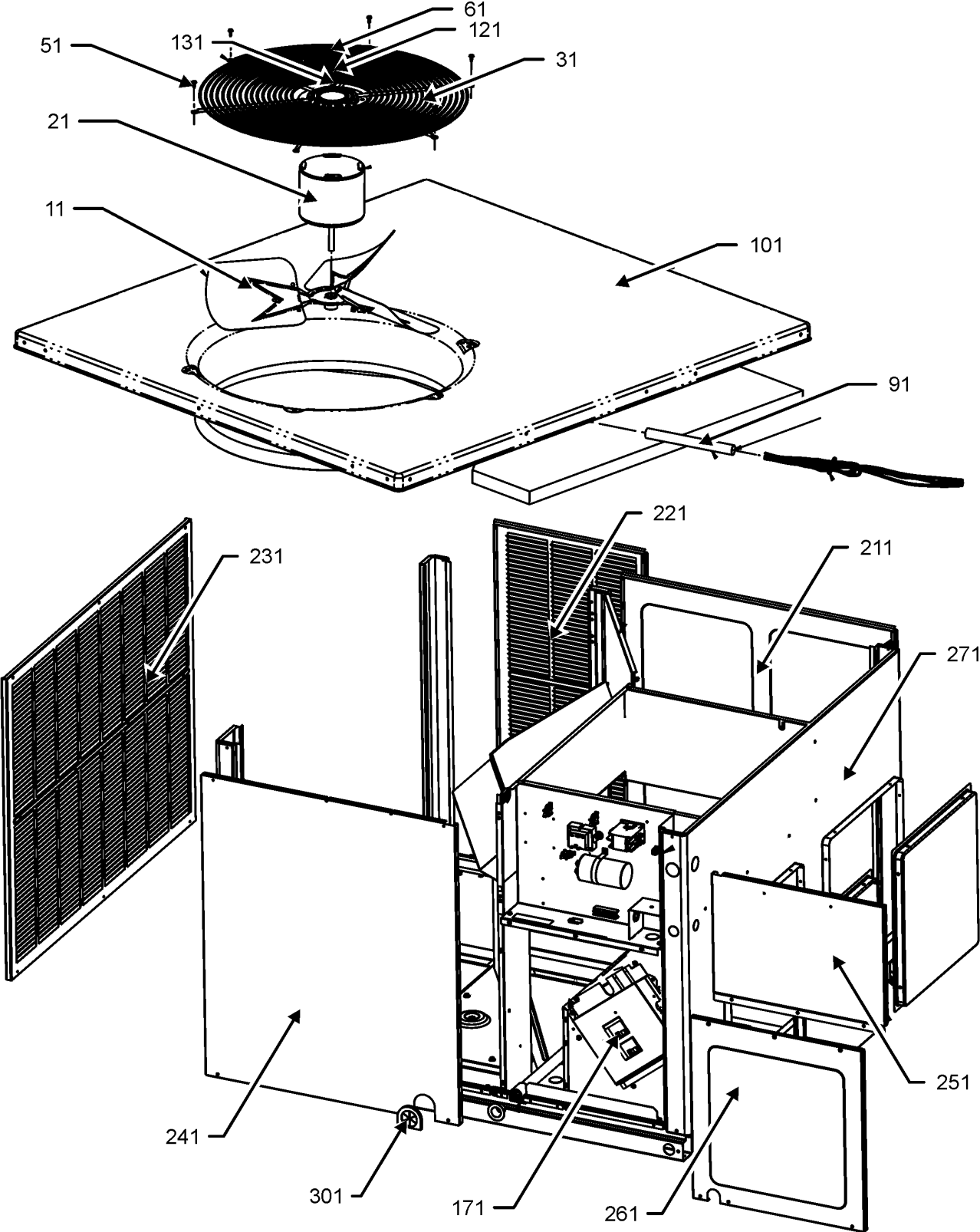
CAP100450440CS	CAP, 10/45 MFD/ 440V DUAL RD (M5)
CAB100800440CT	CAP, 10/80 MFD/440V RD - BPRF (M6)
CAB050350440CS	CAP, 5/35 MFD/440V RD - BPRF (M1)
CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2)
CAB050450440CT	CAP, 5/45 MFD/440V RD - BPRF (M3, M4)
YP51K1TPFVASC	COMPRESSOR (M6)
YP34K1TPFVASC	COMPRESSOR (M4)
YP31K1TPFVASE	COMPRESSOR (M3)
YP40K1TPFVASC	COMPRESSOR (M5)
YP25K1TPFVASE	COMPRESSOR (M2)
YP21K1TPFVASE	COMPRESSOR (M1)
CONT1P030024D	CONT, 1 POLE, 30 AMP, 24VAC (M1, M2, M3)
CONT2P040024D	CONT, 2 POLE, 40 AMP, 24VAC (M4, M5, M6)
0131M00750M	CONTROLLERLESS MOTOR (M1, M2)
0131M00749M	CONTROLLERLESS MOTOR (M6)
0131M00747M	CONTROLLERLESS MOTOR (M3, M4, M5)
0131M00430	MOTOR, 1/3 HP, 1 SP, 6 PL (M6)
0131M00847	MOTOR, 1/4 HP, 1 SP, 6 PL (M2, M3, M4, M5)
0131M00979	MOTOR, 1/6 HP, 1SP, 8PL,AL (M1)
PCBCM301V0001	PCB CONTROL AIR HANDLER
0131G20049	PROGRAMMED CONTROLLER (M2)
0131G00166	PROGRAMMED CONTROLLER (M4)
0131G00167	PROGRAMMED CONTROLLER (M5)
0131G20048	PROGRAMMED CONTROLLER (M1)
0131G20050	PROGRAMMED CONTROLLER (M3)
0131G00168	PROGRAMMED CONTROLLER (M6)
SER2A08012	SENSATA R32 SENSOR
0130M00138	TRANSFORMER 208/230 24V
0151G20027	VALVE, TXV (M6)

Expanded Model Nomenclature

M1 - GPCM32431AA M2 - GPCM33031AA M3 - GPCM33631AA M4 - GPCM34231AA M5 - GPCM34831AA M6 - GPCM36031AA
--

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:

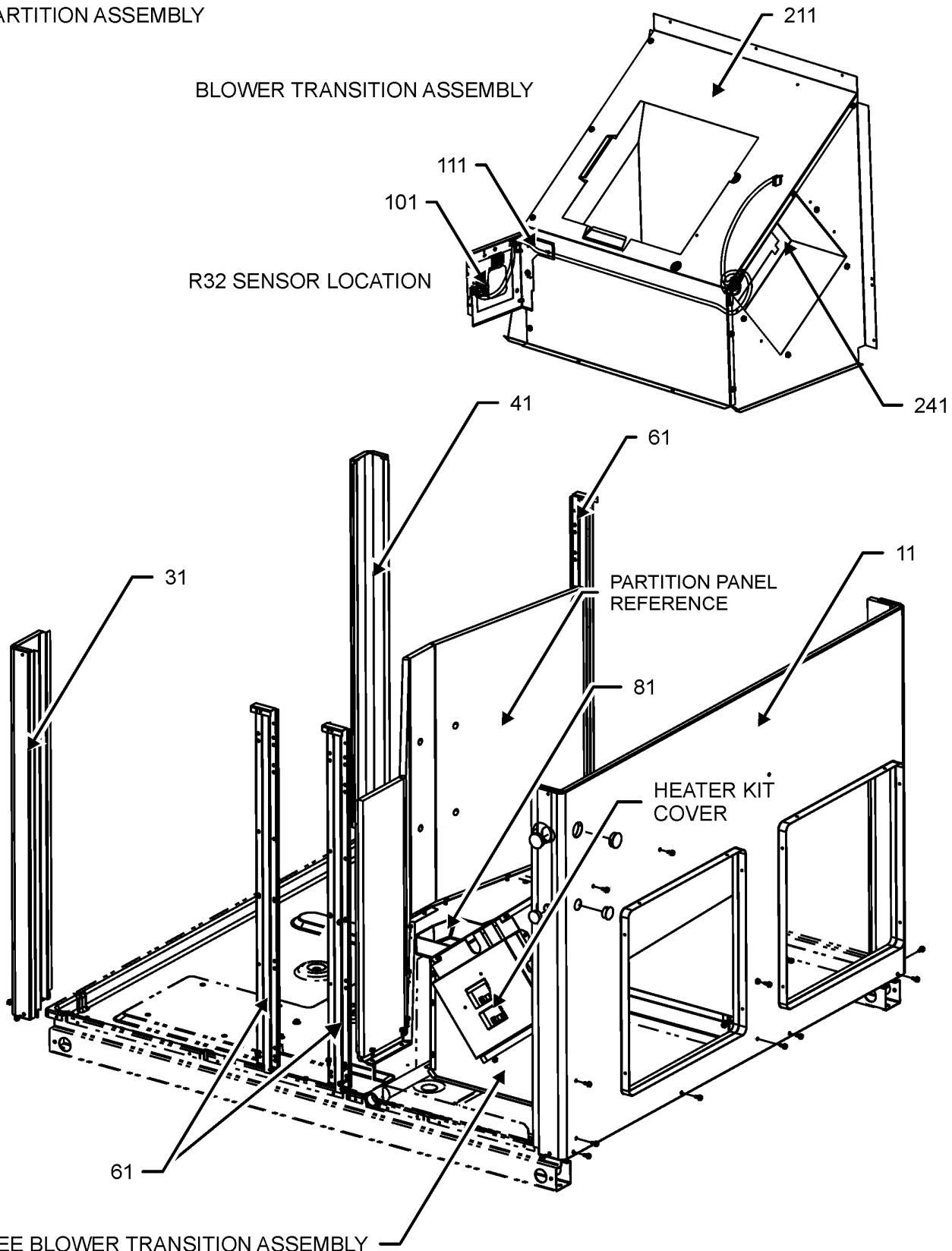
11	0150G00002	FAN BLADE SWP/W (M2, M3, M4, M5, M6)
11	0150M00008	FAN BLADE, 22" TNT2203-25 (M1)
21	0131M00430	MOTOR, 1/3 HP, 1 SP, 6 PL (M6)
21	0131M00847	MOTOR, 1/4 HP, 1 SP, 6 PL (M2, M3, M4, M5)
21	0131M00979	MOTOR, 1/6 HP, 1SP, 8PL,AL (M1)
31	0152G00000	FAN GRILLE RAISED
51	M0221817	SCREW SM (QTY 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)
211	20464806PDG	DOOR - BLOWER 40 W/PAINT (M3, M4, M5, M6)
221	20467701PDG	PANEL - COND SIDE 32 W/PAINT (M1)
221	20467702PDG	PANEL - COND SIDE 40 W/PAINT (M3, M4, M5, M6)
221	0121G00465DG	PANEL-COND SIDE 32, PNT (M2)
231	0121G00728DG	PANEL-COND LOUVERED 32 (M1, M2)
231	0121G00729DG	PANEL-COND LOUVERED 40 (M3, M4, M5, M6)
241	0121G00661DG	COMPRESSOR PANEL (M6)
241	0121G00662DG	COMPRESSOR PANEL (M1, M2)
241	0121G00663DG	COMPRESSOR PANEL (M3, M4, M5)
251	0121G20040DG	PAINTED, PANEL, CB CNVRT
261	0121G20039DG	PAINTED, BLOWER PNL CNVRT 32.5 (M1, M2)
261	0121G00883DG	PNL, PAINTED 40" BLWR (M3, M4, M5, M6)
271	0121G00800DG	PNL, DUCT, CNVRT, 32.5" PNT (M1, M2)
271	0121G00801DG	PNL, DUCT, CNVRT, 40" PNT (M3, M4, M5, M6)
301	0164G00005	GROMMET HORSESHOE 1.675
NS	0164M00111	GROMMET D
NS	B1392012	GROMMET HS 1.0 - .79

Expanded Model Nomenclature

M1 - GPCM32431AA M2 - GPCM33031AA M3 - GPCM33631AA M4 - GPCM34231AA M5 - GPCM34831AA M6 - GPCM36031AA
--

PARTITION ASSEMBLY

PARTITION ASSEMBLY



PARTITION ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

PARTITION ASSEMBLY

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

Image 1:

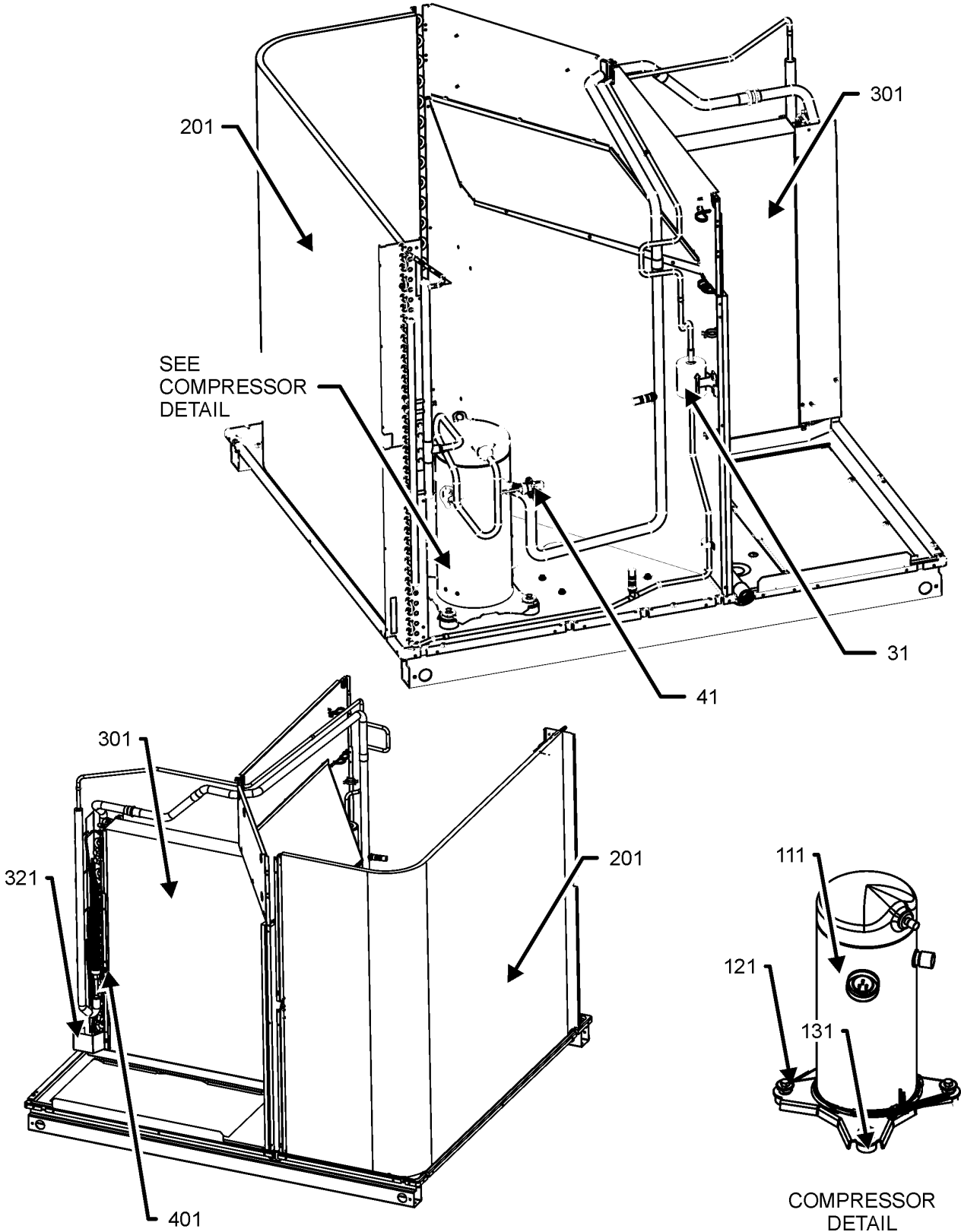
11	0121G00800DG	PNL, DUCT, CNVRT, 32.5" PNT (M1, M2)
11	0121G00801DG	PNL, DUCT, CNVRT, 40" PNT (M3, M4, M5, M6)
31	20464201PDG	CRNR POST-COMP END 32 W/PAINT (M1)
31	20464202PDG	CRNR POST-COMP END 40 W/PAINT (M3, M4, M5, M6)
31	0121G00453DG	POST-CRNR COMP END 32 (M2)
41	20464301PDG	CRNR POST-HPIN END 32 W/PAINT (M1)
41	20464302PDG	CRNR POST-HPIN END 40 W/PAINT (M3, M4, M5, M6)
41	0121G00454DG	POST-CRNR HPIN END 32 (M2)
61	0121G00460	POST-SUPPORT, SIDE (M1, M2)
61	0121G00615	POST-SUPPORT, SIDE 40 (M3, M4, M5, M6)
81	0161G00003	DRIP PAN PLASTIC
101	SER2A08012	SENSATA R32 SENSOR
111	0121G20000	BRACKET R32 SENSOR
211	0221G00020	R32 BLOWER TRANSITION ASSEMBLY
241	0121G20011	MOUNT BLOWER

Expanded Model Nomenclature

M1 - GPCM32431AA
M2 - GPCM33031AA
M3 - GPCM33631AA
M4 - GPCM34231AA
M5 - GPCM34831AA
M6 - GPCM36031AA

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:

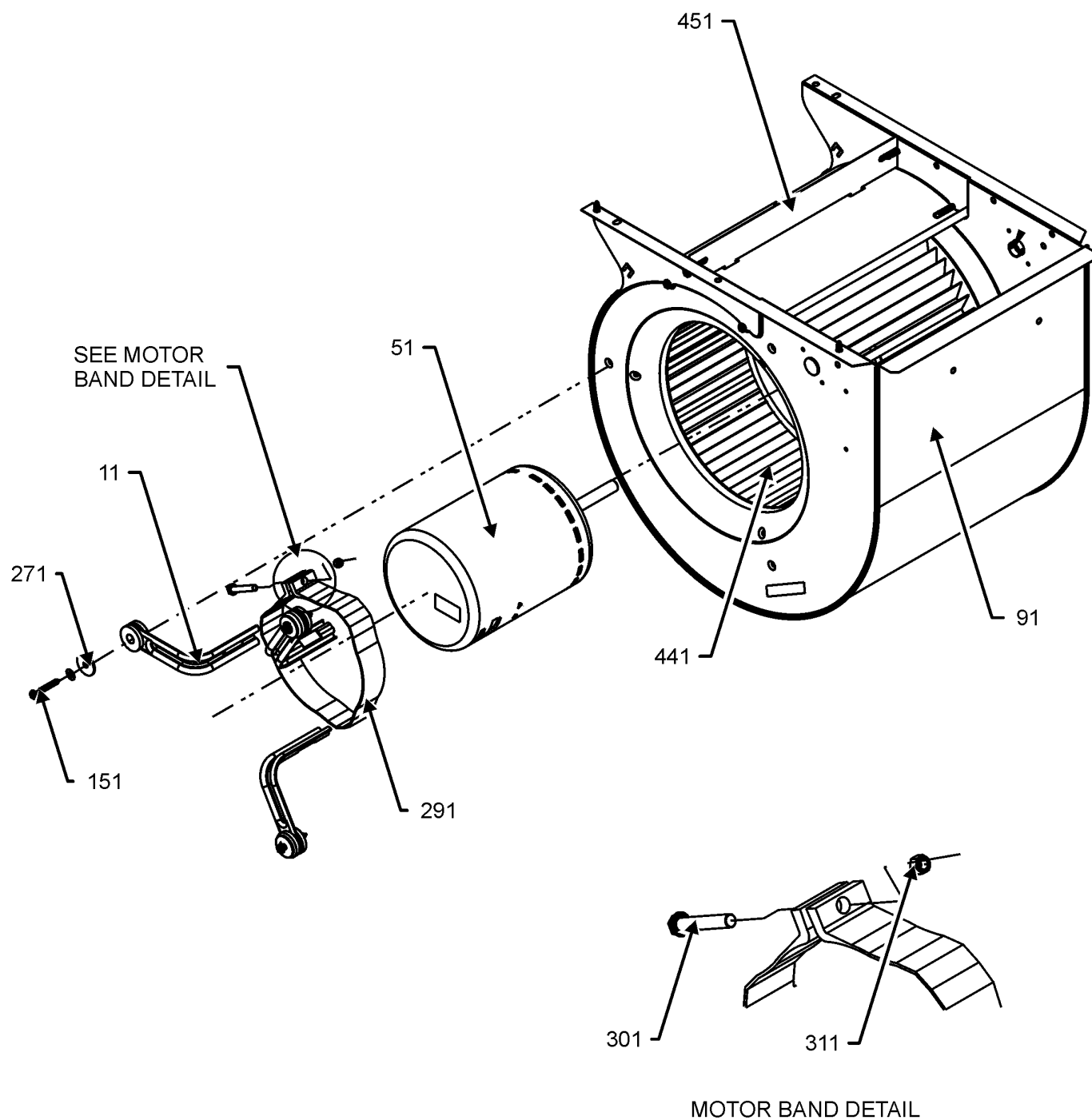
31	0162G00007	SINGLE-FLOW FILTER DRIER,STL (M3, M4, M5, M6)
31	0162G00008	SINGLE-FLOW FILTER DRIER,STL (M1, M2)
41	0130M20009	HIGH PRESSURE SWITCH
111	YP21K1TPFVASE	COMPRESSOR (M1)
111	YP25K1TPFVASE	COMPRESSOR (M2)
111	YP31K1TPFVASE	COMPRESSOR (M3)
111	YP34K1TPFVASC	COMPRESSOR (M4)
111	YP40K1TPFVASC	COMPRESSOR (M5)
111	YP51K1TPFVASC	COMPRESSOR (M6)
121	B1339533	GROMMET COMPRESSOR SCROLL (QTY 4)
131	M0221641	SCREW SHOULD TF (QTY 4)
201	0201G00463	COND COIL ASSY (M3, M4, M5)
201	0201G00464	COND COIL ASSY (M6)
201	0201G00142	COND COIL TUBING ASSY (M1)
201	0201G00249	CONDENSER COIL ASSY (M2)
301	0202G20060	COIL TUBING ASSEMBLY (M1)
301	0202G20061	COIL TUBING ASSEMBLY (M6)
301	0202G20062	COIL TUBING ASSEMBLY (M2)
301	0202G20063	COIL TUBING ASSEMBLY (M3)
301	0202G20065	COIL TUBING ASSEMBLY (M4)
301	0202G20066	COIL TUBING ASSEMBLY (M5)
321	0121G00509	SHIELD DRIP
401	0151G20027	VALVE, TXV (M6)
NS	B1373315	ACCESS FITTING (QTY 2)
NS	0164M00110	GROMMET-HORSESHOE
NS	20477501	GROMMET-HORSESHOE
NS	0159G00014	HARNESS-COMP SCROLL
NS	0163M00629	RED CAP WITH O RING (QTY 2)

Expanded Model Nomenclature

M1 - GPCM32431AA M2 - GPCM33031AA M3 - GPCM33631AA M4 - GPCM34231AA M5 - GPCM34831AA M6 - GPCM36031AA
--

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:

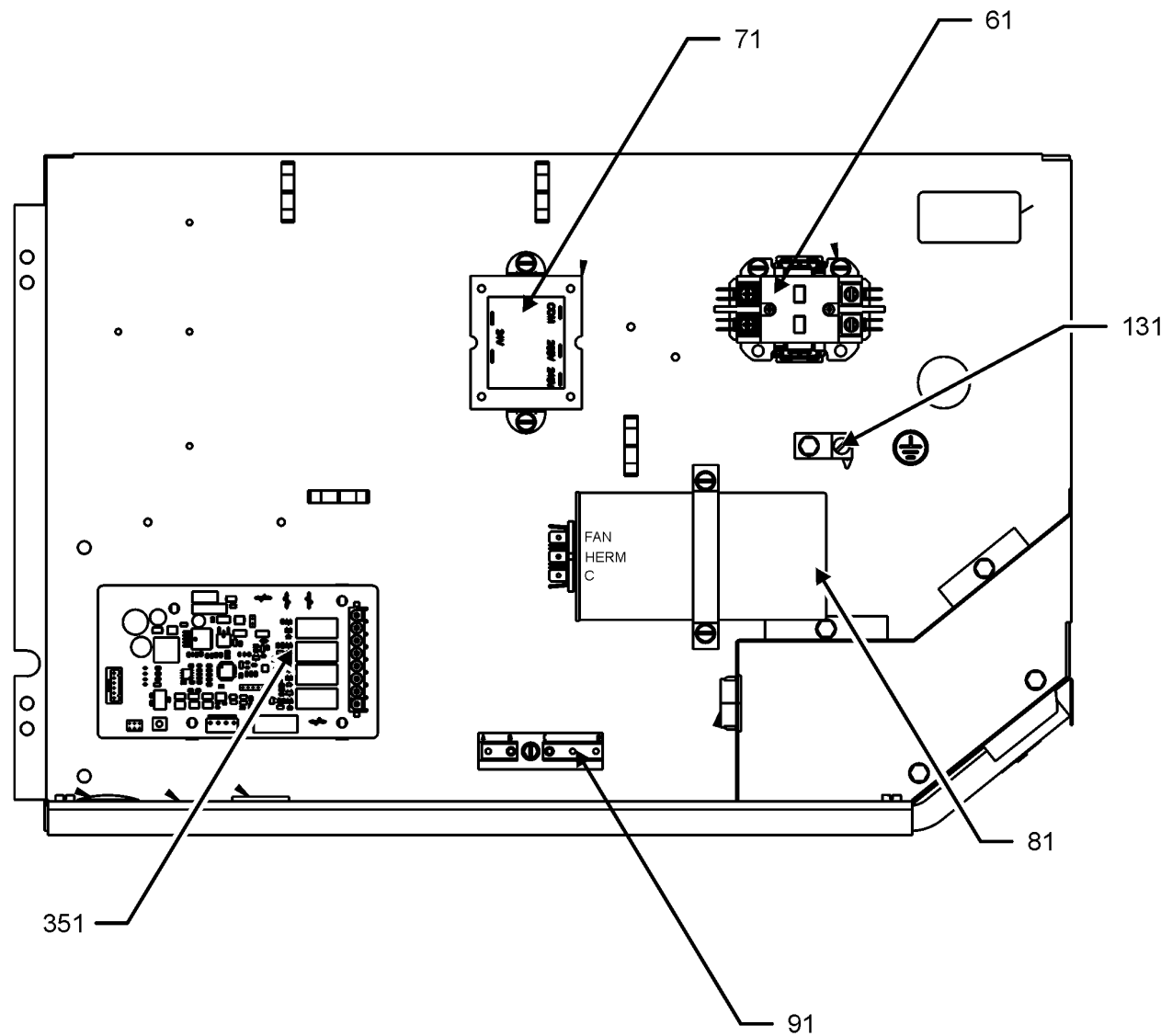
11	B1376857	MOTOR MOUNT ARM (QTY 3)
51	0131M00747M	CONTROLLERLESS MOTOR (M3, M4, M5)
51	0131M00749M	CONTROLLERLESS MOTOR (M6)
51	0131M00750M	CONTROLLERLESS MOTOR (M1, M2)
51	0131G00166	PROGRAMMED CONTROLLER (M4)
51	0131G00167	PROGRAMMED CONTROLLER (M5)
51	0131G00168	PROGRAMMED CONTROLLER (M6)
51	0131G20048	PROGRAMMED CONTROLLER (M1)
51	0131G20049	PROGRAMMED CONTROLLER (M2)
51	0131G20050	PROGRAMMED CONTROLLER (M3)
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 - GPCM32431AA M2 - GPCM33031AA M3 - GPCM33631AA M4 - GPCM34231AA M5 - GPCM34831AA M6 - GPCM36031AA
--

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:

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	CAP100450440CS	CAP, 10/45 MFD/ 440V DUAL RD (M5)
81	CAB100800440CT	CAP, 10/80 MFD/440V RD - BPRF (M6)
81	CAB050350440CS	CAP, 5/35 MFD/440V RD - BPRF (M1)
81	CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2)
81	CAB050450440CT	CAP, 5/45 MFD/440V RD - BPRF (M3, M4)
91	802007090	TERM BOARD
131	B1378533	LUG, GROUND SMALL, 4T
351	PCBCM301V0001	PCB CONTROL AIR HANDLER
NS	B1392012	GROMMET / HS 1.0 - .79
NS	0159G00014	HARNESS-COMP SCROLL
NS	20520901	STRAP-CAPACITOR

Expanded Model Nomenclature

M1 - GPCM32431AA
M2 - GPCM33031AA
M3 - GPCM33631AA
M4 - GPCM34231AA
M5 - GPCM34831AA
M6 - GPCM36031AA