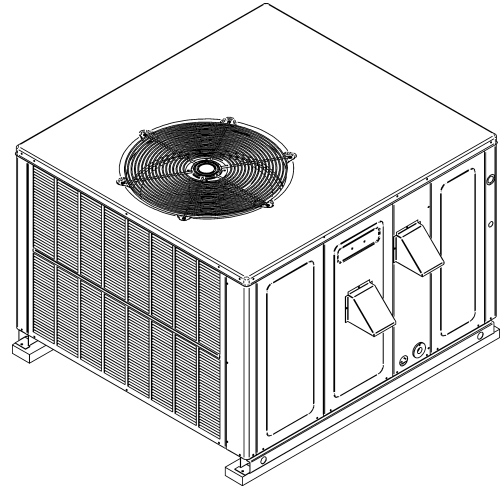




REPAIR PARTS

GPUM3 Residential Package Gas Unit

GPUM32404041AA
GPUM33006041AA
GPUM33606041AA
GPUM34208041AA
GPUM34808041AA
GPUM36108041AA



This manual is to be used by qualified technicians only.

© 2022 Goodman Manufacturing Company, L.P. ♦ 5151 San Felipe St, Suite 500 ♦ Houston, TX 77056

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:

50N492ZV-ZAKM	2.0TONRECHI COMPR.4 LEGS (M1)
0150G00003	BLADE, FAN 26 SWEPT WING (M3, M4, M5, M6)
B1368000	BLOWER WHEEL (11 X 10) (M4, M5, M6)
0121G00893	BRACKET IGN MODULE MOUNTING
0163G00014	BURNER, ULN (M1)
0163G00015	BURNER, ULN (M2, M3)
0163G00016	BURNER, ULN (M4, M5, M6)
CAP100400440CT	CAP, 10/40 MFD, 440V/ DUAL RD (M5)
CAP100500440CT	CAP, 10/50 MFD/440V/DUAL RD (M6)
CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2)
CAB050450440CT	CAP, 5/45 MFD/440V RD - BPRF (M1, M3, M4)
ZP25K5EPFV130	COMP,25200,208/230/60/1 (M2)
ZP29K5EPFV130	COMP,29000,208/230/60/1 (M3)
ZP34K5EPFV130	COMP,34500,208/230/60/1 (M4)
ZPS49K7EPFV130	COMPRESSOR, 45300,208/230/60/1 (M6)
ZP40K7EPFV130	COMPRESSOR, COPELAND (M5)
CONT1P030024V	CONT, 1 POLE, 30 AMP, 24 VAC (M1, M2, M3, M4, M5)
CONT2P040024V	CONT, 2 POLE, 40 AMP, 24 VAC (M6)
0131M00750M	CONTROLLERLESS MOTOR (M1, M2, M3)
0131M00749M	CONTROLLERLESS MOTOR (M6)
0131M00747M	CONTROLLERLESS MOTOR (M4, M5)
0150G00002	FAN BLADE SWP/W (M2)
0150M00008	FAN BLADE, 22" TNT2203-25 (M1)
0130F00762	FLAME SENSOR
0151M00094	GAS VALVE ULN
0130M00074	HIGH PRESSURE SWITCH
0130G00013	ID PLUG (M2, M3)
0130G00012	ID PLUG (M1)
0130G00014	ID PLUG (M4, M5, M6)
0130M00684	IGNITION MODULE
0130M00817	IGNITOR SPARK ELECTRODE
PCBBL216	INTERGRATED FURNACE CONTROLLER
10728342	LIMIT SWITCH (M2, M3, M4, M5, M6)
0130M00087	LOW PRESSURE SWITCH (M6)
0131M00966	MOTOR VENT ID
0131M00430	MOTOR, 1/3 HP, 1 SP, 6 PL (M5, M6)
0131M00847	MOTOR, 1/4 HP, 1 SP, 6 PL (M2, M3, M4)
0131M00979	MOTOR, 1/6 HP, 1SP, 8PL,AL (M1)
0131G00146	PROGRAMMED CONTROLLER (M4)
0131G00148	PROGRAMMED CONTROLLER (M5)
0131G00139	PROGRAMMED CONTROLLER (M1)
0131G00143	PROGRAMMED CONTROLLER (M3)
0131G00141	PROGRAMMED CONTROLLER (M2)
0131G00152	PROGRAMMED CONTROLLER (M6)
0130G00033	SWITCH HIGH LIMIT ULN (M1)
0130G00021	SWITCH, HIGH LIMIT, ULN (M2, M3)
0130G00024	SWITCH, HIGH LIMIT, ULN (M4, M5, M6)
0130G00019	SWITCH, HIGH LIMIT, ULN (M1)
B1370772	TIME DELAY ICM 180 SEC DELA
0130M00685	TRANSDUCER PRESSURE SWITCH
0130M00138	TRANSFORMER 208/230 24V
B1368016	WHEEL, BLOWER, 10X8 (M1, M2)
D6723303	WHEEL-BLOWER (M3)

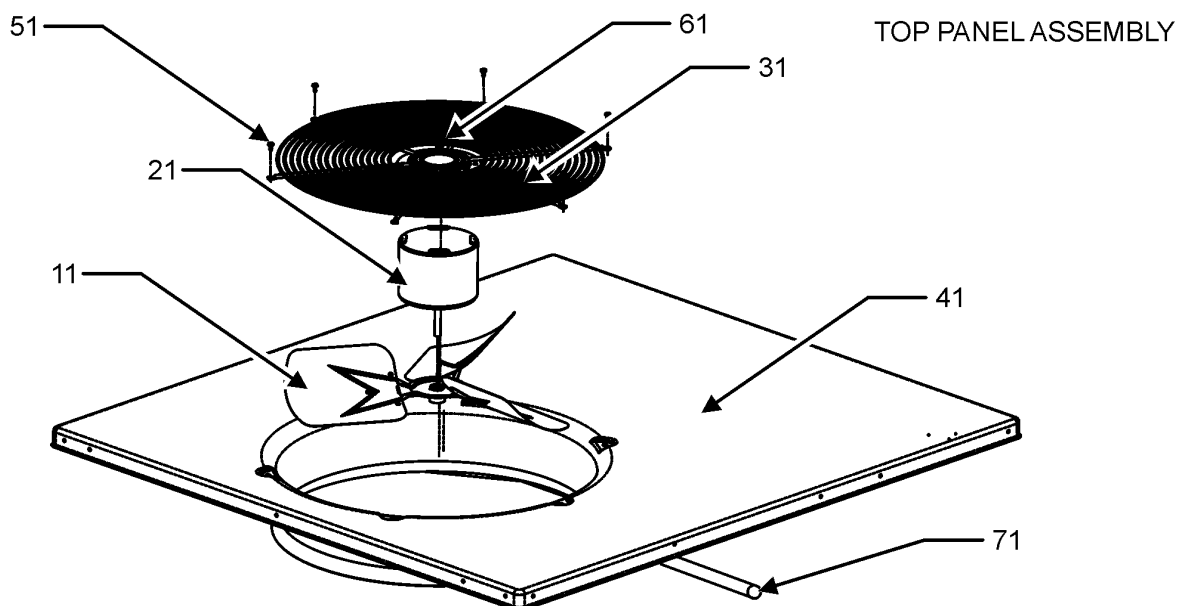
Special Parts

TP-109B	AL COIL APPROVED CLEANING LIST
PWGMFG	GOODMAN PRODUCT WARRANTY
HI-116G	HOMEOWNERS MANUAL
IOG-3025	INSTALLATION INSTRUCTIONS

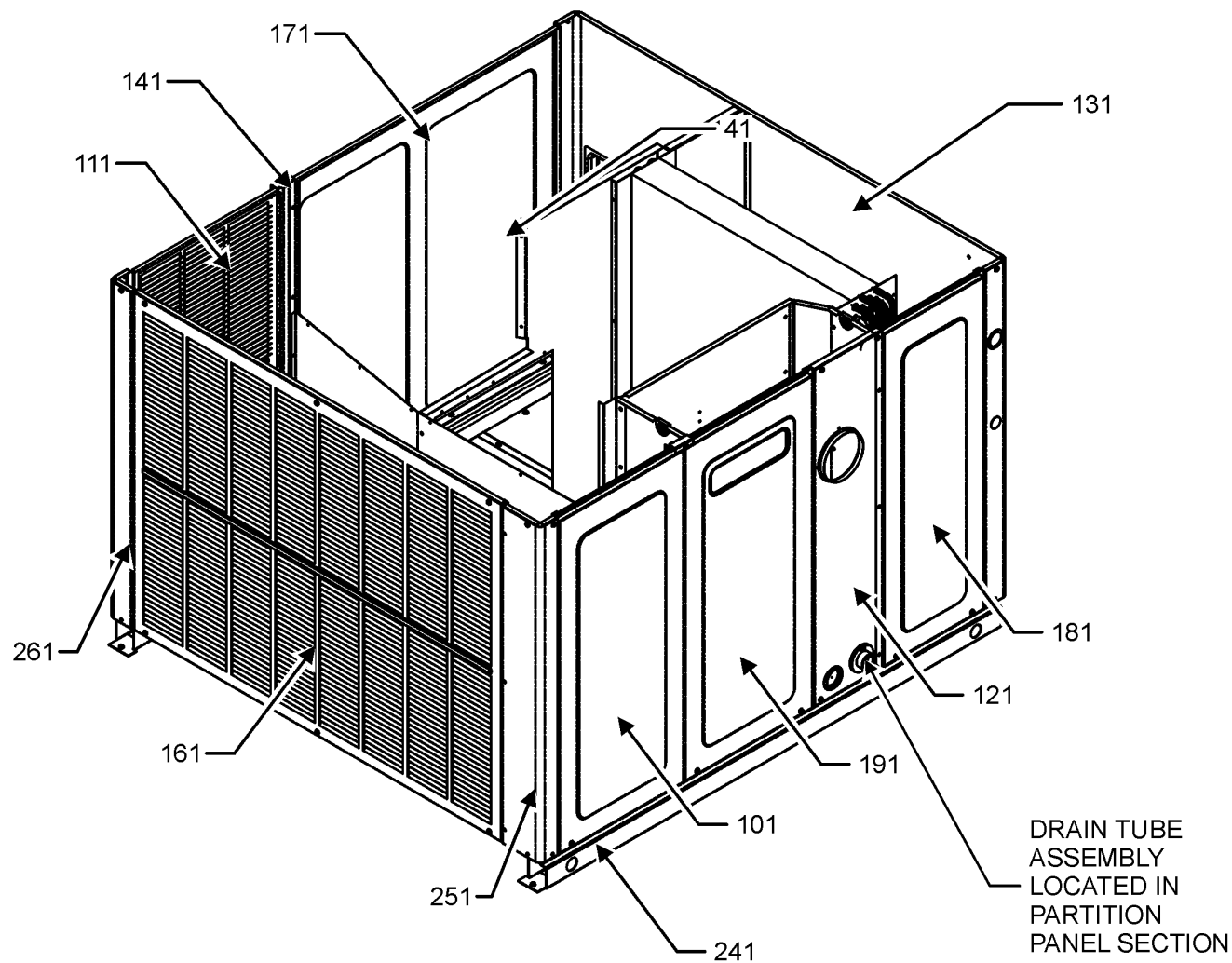
Expanded Model Nomenclature

M1 - GPUM32404041AA
M2 - GPUM33006041AA
M3 - GPUM33606041AA
M4 - GPUM34208041AA
M5 - GPUM34808041AA
M6 - GPUM36108041AA

Top Panel and Cabinet Assembly



CABINET ASSEMBLY



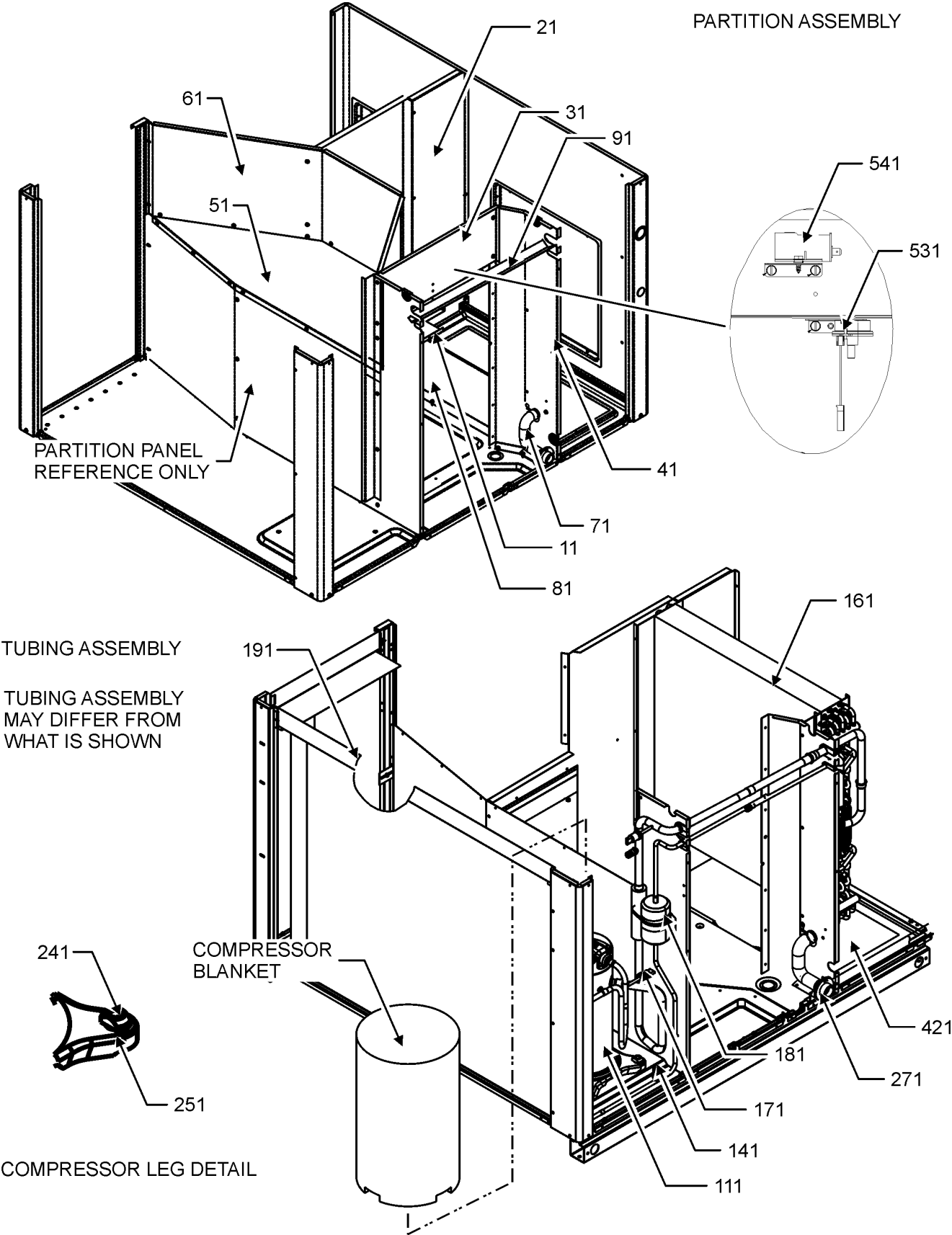
Top Panel and Cabinet Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0150G00003		BLADE, FAN 26 SWEPT WING (M3, M4, M5, M6)
11	0150G00002		FAN BLADE SWP/W (M2)
11	0150M00008		FAN BLADE, 22" TNT2203-25 (M1)
21	0131M00430		MOTOR, 1/3 HP, 1 SP, 6 PL (M5, M6)
21	0131M00847		MOTOR, 1/4 HP, 1 SP, 6 PL (M2, M3, M4)
21	0131M00979		MOTOR, 1/6 HP, 1SP, 8PL,AL (M1)
31	0152G00000		FAN GRILLE, RAISED (M2)
31	0152G00003		GRILLE-FAN (M1, M3, M4, M5, M6)
41	0121G00887PDG		PNL, TOP, PNT
51	M0221817		SMALL SCREW (QTY 6)
61	0163M00006P		ACORN NUT 5/16 HEX BLACK (QTY 4)
71	0161R00002P		CONDUIT
101	20464804PDG		DOOR-COMPRESSOR 38 (M1, M2, M3)
101	20464809PDG		DOOR-COMPRESSOR 40 W/PAINT (M4, M5, M6)
111	20467701PDG		PANEL - COND SIDE 32 W/PAINT (M1, M2, M3)
111	20467702PDG		PANEL - COND SIDE 40 W/PAINT (M4, M5, M6)
121	20466101PDG		UTILITY PANEL 32 W/PAINT (M1, M2, M3)
121	20466102PDG		UTILITY PANEL 40 W/PAINT (M4, M5, M6)
131	0121G00917DG		PANEL, DUCT, 40" PNT-DG (M4, M5, M6)
131	0121G00802DG		PNL, DUCT, GAS 32.5" PNT (M1, M2, M3)
141	0121G00460		POST-SUPPORT, SIDE (M1, M2, M3)
141	0121G00615		POST-SUPPORT, SIDE 40 (M4, M5, M6)
161	0121G00728DG		PANEL-COND LOUVERED 32 (M1, M2, M3)
161	0121G00729DG		PANEL-COND LOUVERED 40 (M4, M5, M6)
171	20464801PDG		DOOR - BLOWER 32 W/PAINT (M1, M2, M3)
171	20464806PDG		DOOR - BLOWER 40 W/PAINT (M4, M5, M6)
181	20464802PDG		DOOR-EVAP/CONTROL 32 W/PAINT (M1, M2, M3)
181	20464807PDG		DOOR-EVAP/CONTROL 40 W/PAINT (M4, M5, M6)
191	0121G00526DG		DOOR-HT EXCHANGE 32 (M1, M2, M3)
191	0121G00527DG		DOOR-HT EXCHANGE 38 (M4, M5, M6)
241	0121G00290		RAIL, BASEPAN, PKG (QTY 2)
251	0121G00453DG		CORNER-POST COMP END, PNT (M3)
251	0121G00455DG		CORNER-POST COMP END, PNT (M5, M6)
251	20464201PDG		CRNR POST-COMP END 32 W/PAINT (M1, M2)
251	20464202PDG		CRNR POST-COMP END 40 W/PAINT (M4)
261	0121G00454DG		CORNER-POST HPIN END, PNT (M1, M2, M3)
261	0121G00456DG		CORNER-POST HPIN END, PNT (M4, M5, M6)
NS	TP-109B		AL COIL APPROVED CLEANING LIST
NS	PWGMFG		GOODMAN PRODUCT WARRANTY
NS	HI-116G		HOMEOWNERS MANUAL
NS	IOG-3025		INSTALLATION INSTRUCTIONS

Expanded Model Nomenclature

M1 - GPUM32404041AA
M2 - GPUM33006041AA
M3 - GPUM33606041AA
M4 - GPUM34208041AA
M5 - GPUM34808041AA
M6 - GPUM36108041AA

Partition and Tubing Assembly



Partition and Tubing Assembly

Ref. Part

No: No:

Description:

Image 1:

11	20472501	SHIELD-HT TUBES
21	20465304	DIVIDER-BLOWER 32 10X9 (M3)
21	20465302	DIVIDER-BLOWER 38 (M4, M5, M6)
31	0121G00894	PANEL FILLER HT EXCH 32 (M1, M2, M3)
31	0121G00895	PANEL FILLER HT EXCH 40 (M4, M5, M6)
41	0121G00757	DIVIDER, EVAP/HT EXCH 32 (M1, M2, M3)
41	0121G00758	DIVIDER, EVAP/HT EXCH 38 (M4, M5, M6)
51	20465701	FAN PARTITION SHELF
61	20465801	SURROUND-FAN 32 (M1, M2, M3)
61	20465802	SURROUND-FAN 40 (M4, M5, M6)
71	20498302	TUBE-DRAIN 32 (M1, M2, M3)
71	20498301	TUBE-DRAIN 40 (M4, M5, M6)
81	20463802	BLOCK-EVAP/BPAN 32 (M1, M2, M3)
81	20463801	BLOCK-EVAP/BPAN 40 (M4, M5, M6)
91	0121G00555	DRAIN CHANNEL, SUCTION TUBE
111	50N492ZV-ZAKM	2.0TONRECHI COMPR.4 LEGS (M1)
111	ZP25K5EPFV130	COMP,25200,208/230/60/1 (M2)
111	ZP29K5EPFV130	COMP,29000,208/230/60/1 (M3)
111	ZP34K5EPFV130	COMP,34500,208/230/60/1 (M4)
111	ZPS49K7EPFV130	COMPRESSOR, 45300,208/230/60/1 (M6)
111	ZP40K7EPFV130	COMPRESSOR, COPELAND (M5)
141	B1373315	ACCESS FITTING (QTY 2)
161	0202G00565	COIL TUBING ASSY (M1)
161	0202G00566	COIL TUBING ASSY (M2)
161	0202G00722	COIL TUBING ASSY (M6)
161	0202G00746	COIL TUBING ASSY (M3)
161	0202G00747	COIL TUBING ASSY (M4)
161	0202G00748	COIL TUBING ASSY (M5)
171	0130M00074	HIGH PRESSURE SWITCH
181	0162G00007	SINGLE-FLOW FILTER DRIER,STL (M3, M4, M5, M6)
191	0201G00369	ASSY., CONDENSER COIL (M5, M6)
191	0201G00463	COND COIL ASSY (M4)
191	0201G00142	COND COIL TUBING ASSY (M1, M2)
191	0201G00262	CONDENSER COIL ASSY (M3)
241	0163M00186	SCREW-SHOULDER TF (M1)
241	M0221641	SCREW-SHOULDER TF (M2, M3, M4, M5, M6)
251	B1339533	COMPRESSOR GROMMET (M2, M3, M4, M5, M6)
251	60140209	GROMMET - RECHI COMPRESSOR (M1)
271	20513001	EVAP DRAIN FITTING
421	20464901DF	DRAIN PAN-EVAP COIL
531	0130M00685	TRANSDUCER PRESSURE SWITCH
541	0130M00684	IGNITION MODULE
NS	B1373311	ACCESS VALVE FITTING (M6)
NS	0121G00893	BRACKET IGN MODULE MOUNTING
NS	0159G00031	CABLE, COMPR SOL (M6)
NS	0163M00175	CAP WITH O-RING (QTY 2)
NS	0164M00111	GROMMET D (QTY 4)
NS	0164M00023	GROMMET-HORSESHOE (M5, M6)
NS	0164M00110	GROMMET-HORSESHOE (M1, M2, M3, M4)
NS	20333401	GROMMET-HORSESHOE
NS	20333501	GROMMET-HORSESHOE
NS	20477501	GROMMET-HORSESHOE
NS	0159G00005	HARNESS-COMP SCROLL (M6)
NS	0159G00014	HARNESS-COMP SCROLL (M2, M3)
NS	0159G00015	HARNESS-COMP SCROLL (M4, M5)

Ref. Part

No: No:

Description:

Image 1:

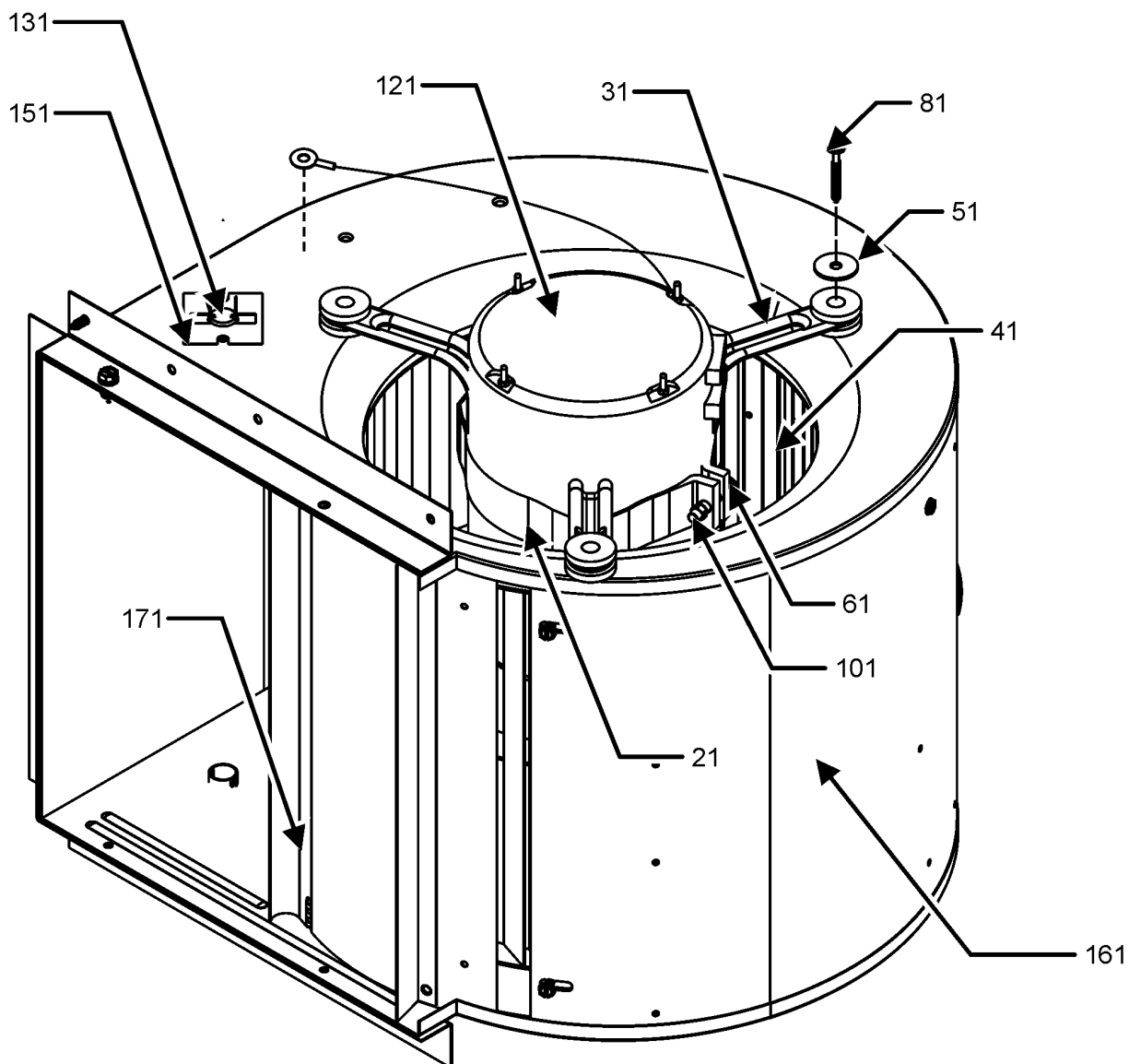
NS	B1810011	HOSE CLAMP 1.25 (QTY 2)
NS	0130M00087	LOW PRESSURE SWITCH (M6)
NS	60100317	TERMINAL COVER (M1)
NS	60100107	TERMINAL COVER GASKET (M1)
NS	60100401	TERMINAL NUT - RECHI COMP (M1)
NS	0151M00075	VALVE-TXV R410A (M6)
NS	60100201	WASHER - RECHI COMPRESSOR (M1)

Expanded Model Nomenclature

M1 - GPUM32404041AA
M2 - GPUM33006041AA
M3 - GPUM33606041AA
M4 - GPUM34208041AA
M5 - GPUM34808041AA
M6 - GPUM36108041AA

Blower Assembly

BLOWER ASSEMBLY



BLOWER ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Blower Assembly

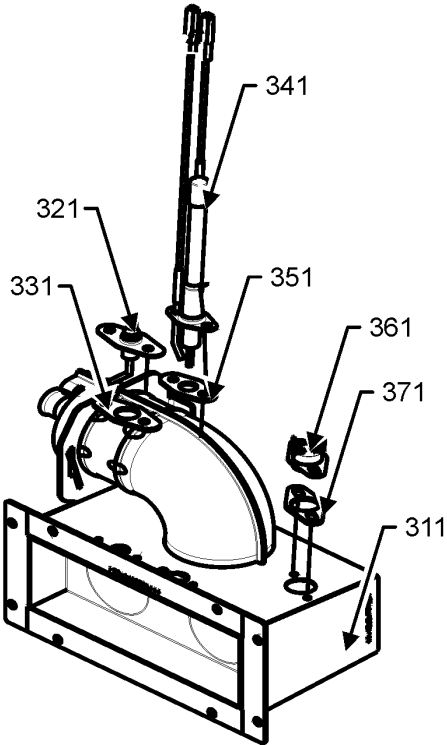
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
21	0121M00038		MOTOR MOUNT BAND
31	B1376857		MOTOR MOUNT ARM (QTY 3)
41	B1368000		BLOWER WHEEL (11 X 10) (M4, M5, M6)
41	B1368016		WHEEL, BLOWER, 10X8 (M1, M2)
41	D6723303		WHEEL-BLOWER (M3)
51	B1392918		WASHER FLAT 1/4 ID X 1 OD (QTY 3)
61	B1393323		SCREW,MACHI HWH 1/4-20X1 1/2 BZ
81	M0250565		TC SCREW 1.25" (QTY 3)
101	B1393800		LOCKNUT, NYLON, INSERT 1/4, 20
121	0131M00747M		CONTROLLERLESS MOTOR (M4, M5)
121	0131M00749M		CONTROLLERLESS MOTOR (M6)
121	0131M00750M		CONTROLLERLESS MOTOR (M1, M2, M3)
121	0131G00139		PROGRAMMED CONTROLLER (M1)
121	0131G00141		PROGRAMMED CONTROLLER (M2)
121	0131G00143		PROGRAMMED CONTROLLER (M3)
121	0131G00146		PROGRAMMED CONTROLLER (M4)
121	0131G00148		PROGRAMMED CONTROLLER (M5)
121	0131G00152		PROGRAMMED CONTROLLER (M6)
131	20269903		LIMIT
151	2509503		BRACKET F/ROLLOUT SWUT SWITCH
161	0271G00025		BLOWER HOUSING ASSY (10X8) (M1, M2)
161	0271G00024		BLOWER HOUSING ASSY (10X9) (M3)
161	2539309		BLOWER HOUSING ASSY (11X10) (M4, M5, M6)
171	764742		BLOCK OFF - BLOWER (M3)
171	1864703		BLOWER CUT-OFF ASM,5TON,MORRIS (M4, M5, M6)
NS	0259G00294		BLOWER HARNESS, 1STG, SHORT (M1, M2, M3)
NS	0259G00280		BLOWER HARNESS, 2STG, TALL (M6)
NS	0130G00012		ID PLUG (M1)
NS	0130G00013		ID PLUG (M2, M3)
NS	0130G00014		ID PLUG (M4, M5, M6)
NS	20463701		MTG-BLOWER U 11X10 (M4, M5, M6)
NS	0121G00148		SINGLE COVER, DOWN DISCHARGE (QTY 2)

Expanded Model Nomenclature

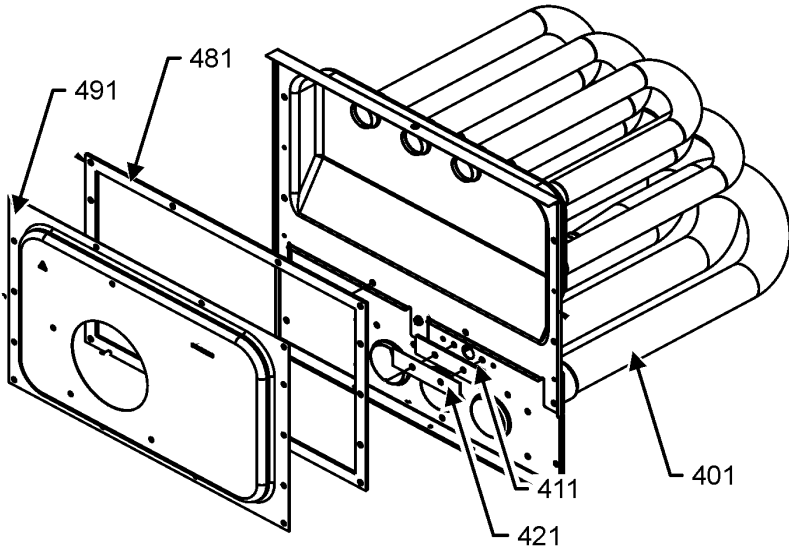
M1 - GPUM32404041AA
M2 - GPUM33006041AA
M3 - GPUM33606041AA
M4 - GPUM34208041AA
M5 - GPUM34808041AA
M6 - GPUM36108041AA

Heat Exchange and Burner Assembly

HEAT EXCHANGE ASSEMBLY

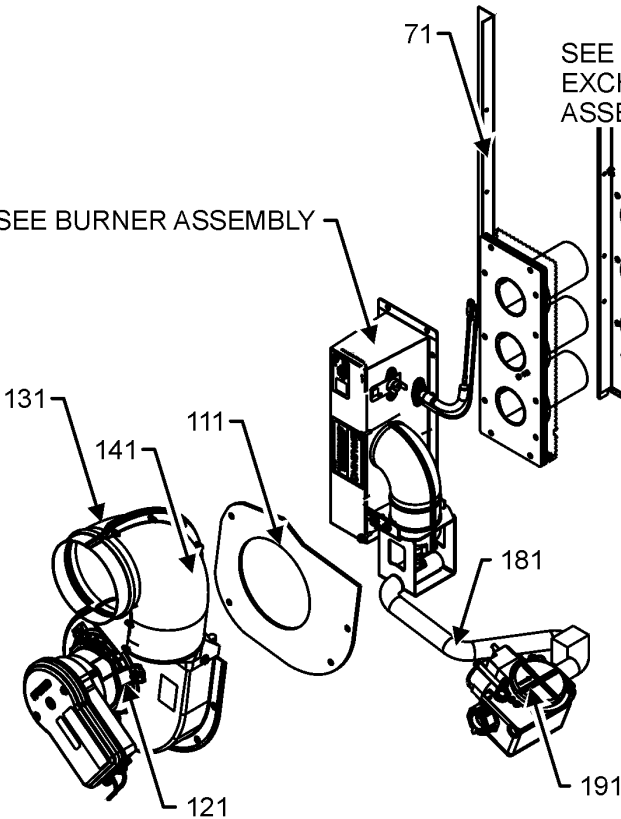


BURNER ASSEMBLY

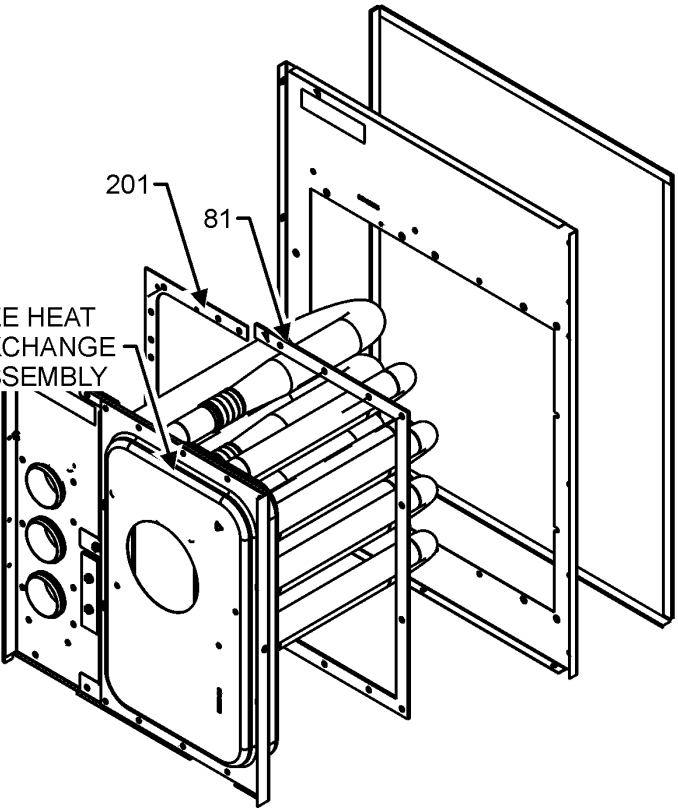


HEAT EXCHANGE ASSEMBLY

SEE BURNER ASSEMBLY



SEE HEAT EXCHANGE ASSEMBLY



HEAT EXCHANGE AND BURNER ASSEMBLY
MAY DIFFER FROM WHAT IS SHOWN

Heat Exchange and Burner Assembly

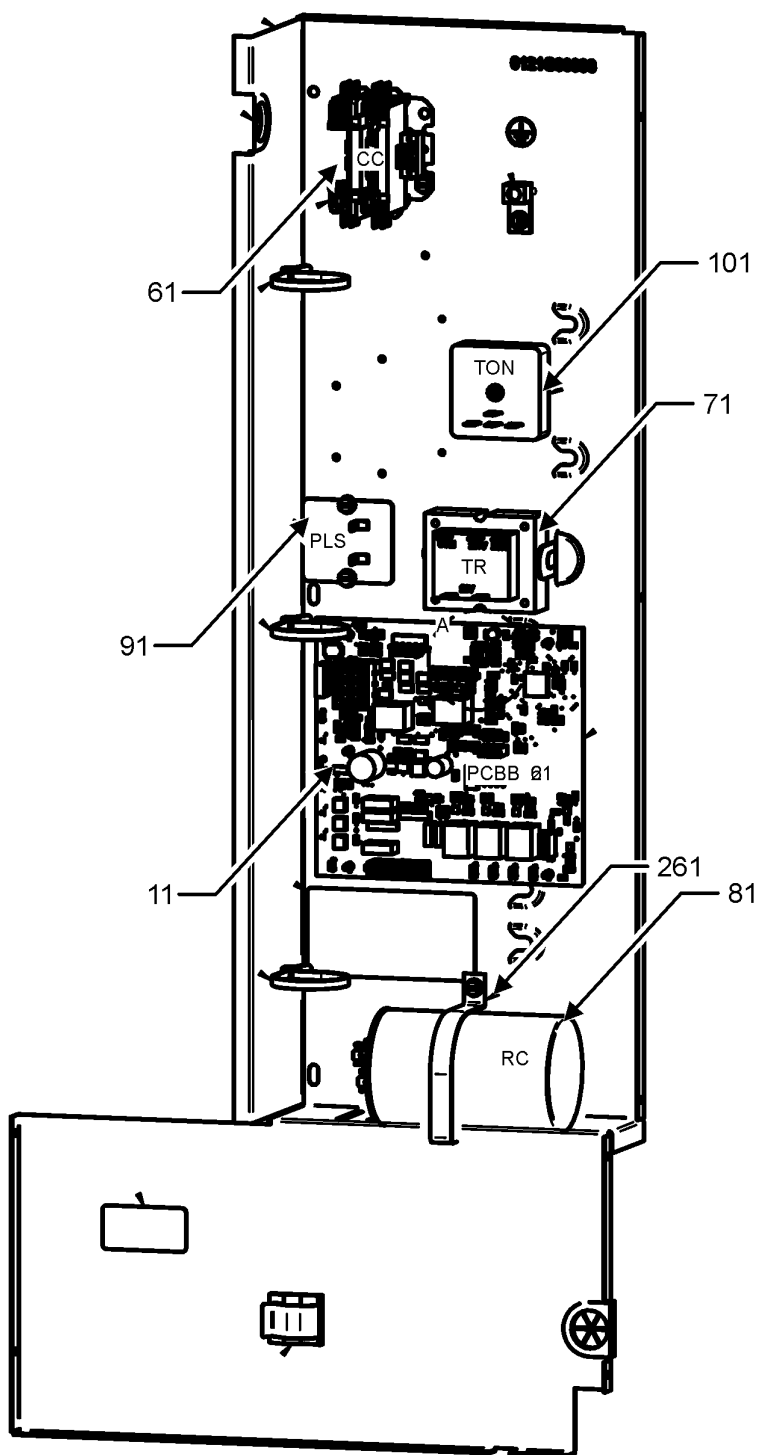
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
71	0121G00815		BRACKET, BURNER PANEL MOUNT (M1)
71	0121G00839		BRACKET, BURNER PANEL MOUNT (M2, M3, M4, M5, M6)
81	0154G00023		HEX MOUNTING GASKET (M1)
81	0154G00027		HEX MOUNTING GASKET (M2, M3, M4, M5, M6)
111	0154G00033		VENT MOTOR GASKET
121	0131M00966		MOTOR VENT ID
131	0121G00847		FLUE ELBOW LEFT
141	0121G00848		FLUE ELBOW RIGHT
181	0263G00003		MANIFOLD ASSY (M1)
181	0263G00006		MANIFOLD ASSY (M2, M3)
181	0263G00009		MANIFOLD ASSY (M4, M5, M6)
191	0151M00094		GAS VALVE ULN
201	0154G00040		GASKET, HEAT EXCHANGER (M1)
201	0154G00041		GASKET, HEAT EXCHANGER (M2, M3, M4, M5, M6)
311	0163G00014		BURNER, ULN (M1)
311	0163G00015		BURNER, ULN (M2, M3)
311	0163G00016		BURNER, ULN (M4, M5, M6)
321	0130F00762		FLAME SENSOR
331	0154F00068		GASKET ULN FLAME SENSOR
341	0130M00817		IGNITOR SPARK ELECTRODE
351	0154M00079		GASKET ULN IGNITOR
361	0130G00019		SWITCH, HIGH LIMIT, ULN (M1)
361	0130G00021		SWITCH, HIGH LIMIT, ULN (M2, M3)
361	0130G00024		SWITCH, HIGH LIMIT, ULN (M4, M5, M6)
371	0154F00069		GASKET LIMIT ULN
401	0257G00119		HEAT EXCHANGER ASSY (M1)
401	0257G00121		HEAT EXCHANGER ASSY (M2, M3)
401	0257G00122		HEAT EXCHANGER ASSY (M4, M5, M6)
411	0154G00030		ULN LIMIT COVER GASKET
421	0121G00844		PLATE, ULN HT EX LIMIT COVER
481	0154G00034		ULN COLLECTOR BOX GASKET (M2, M3, M4, M5, M6)
481	0154G00036		ULN COLLECTOR BOX GASKET (M1)
491	0121G00849		COLLECTOR BOX, 4.5" DIA (M1)
491	0121G00850		COLLECTOR BOX, 4.5" DIA (M2, M3, M4, M5, M6)
NS	0154G00031		FLUE GASKET ELBOW
NS	0154G00032		FLUE GASKET ELBOW
NS	0270G00500		FLUE HOOD ASSY
NS	0154G00038		GASKET INDUCER TRANSITION

Expanded Model Nomenclature

M1 - GPUM32404041AA
M2 - GPUM33006041AA
M3 - GPUM33606041AA
M4 - GPUM34208041AA
M5 - GPUM34808041AA
M6 - GPUM36108041AA

Control Panel

CONTROL BOX ASSEMBLY



CONTROL BOX ASSEMBLY
MAY DIFFER FROM WHAT
IS SHOWN

Control Panel

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	PCBBL216	INTERGRATED FURNACE CONTROLLER
61	CONT1P030024V	CONT, 1 POLE, 30 AMP, 24 VAC (M1, M2, M3, M4, M5)
61	CONT2P040024V	CONT, 2 POLE, 40 AMP, 24 VAC (M6)
71	0130M00138	TRANSFORMER 208/230 24V
81	CAP100400440CT	CAP, 10/40 MFD, 440V/ DUAL RD (M5)
81	CAP100500440CT	CAP, 10/50 MFD/440V/DUAL RD (M6)
81	CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2)
81	CAB050450440CT	CAP, 5/45 MFD/440V RD - BPRF (M1, M3, M4)
91	10728342	LIMIT SWITCH (M2, M3, M4, M5, M6)
91	0130G00033	SWITCH HIGH LIMIT ULN (M1)
101	B1370772	TIME DELAY ICM 180 SEC DELA
261	20520901	STRAP CAPACITOR
NS	0259G00294	BLOWER HARNESS, 1STG, SHORT (M1, M2, M3)
NS	0259G00280	BLOWER HARNESS, 2STG, TALL (M6)
NS	0159G00031	CABLE COMPR SOL (M6)
NS	0259G00083	HARNESS-CONTROL (M4, M5)

Expanded Model Nomenclature

M1 - GPUM32404041AA
M2 - GPUM33006041AA
M3 - GPUM33606041AA
M4 - GPUM34208041AA
M5 - GPUM34808041AA
M6 - GPUM36108041AA