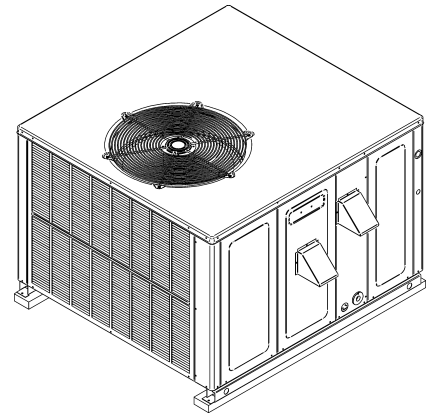




REPAIR PARTS

GPUM3 Residential Package Gas Unit

GPUM32404031AA
GPUM33006031AA
GPUM33606031AA
GPUM34208031AA
GPUM34808031AA
GPUM36008031AA



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

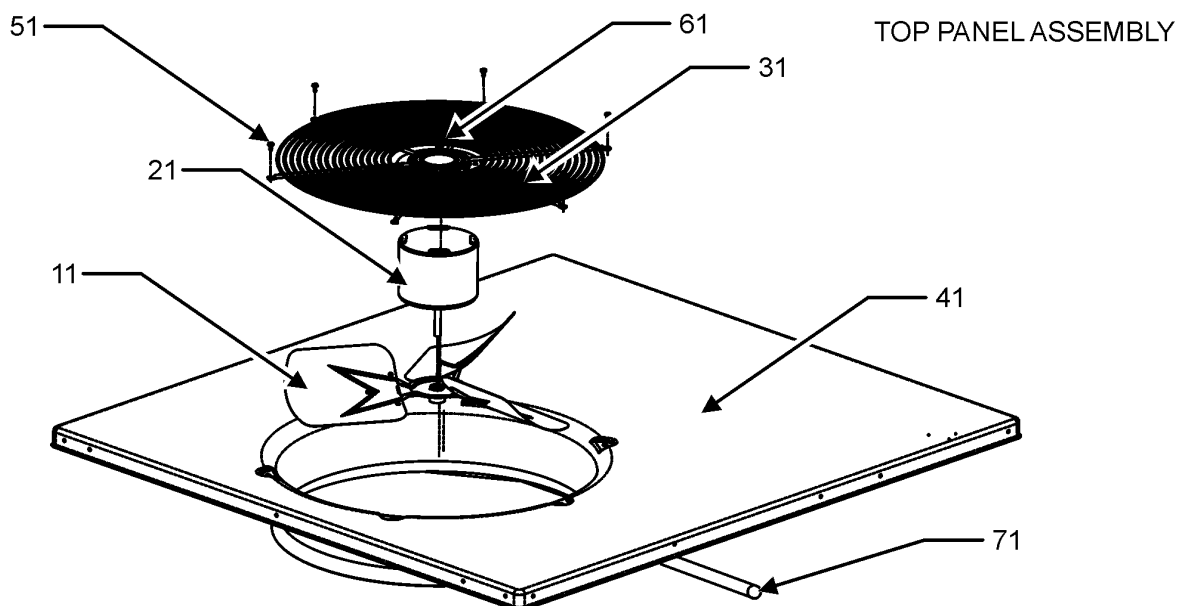
Functional Parts

Part

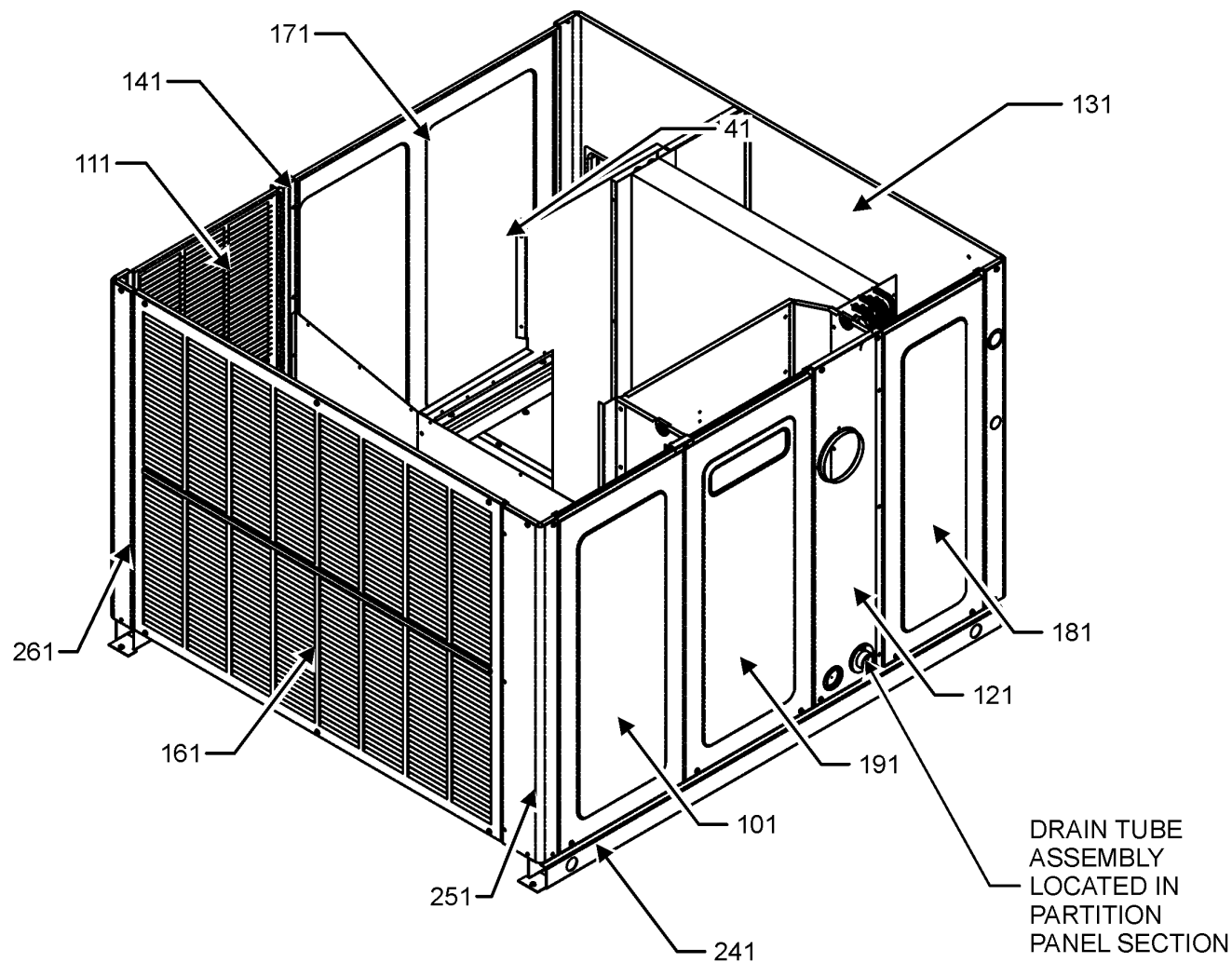
No: Description:

0151G00008	ADJUSTABLE VALVE TXV R32 (M6)	0130G00021	SWITCH, HIGH LIMIT, ULN (M2, M3)
0150G00003	BLADE, FAN 26 SWEPT WING (M3, M4, M5, M6)	B1370772	TIME DELAY ICM 180 SEC DELA
B1368000	BLOWER WHEEL (11 X 10) (M4, M5, M6)	0130M00685	TRANSDUCER PRESSURE SWITCH
0121G00893	BRACKET IGN MODULE MOUNTING	0130M00138	TRANSFORMER 208/230 24V
0163G00014	BURNER, ULN (M1)	B1368016	WHEEL, BLOWER, 10X8 (M1, M2)
0163G00015	BURNER, ULN (M2, M3)	D6723303	WHEEL-BLOWER (M3)
0163G00016	BURNER, ULN (M4, M5, M6)	Expanded Model Nomenclature	
CAP100400440CT	CAP, 10/40 MFD, 440V/ DUAL RD (M6)	M1 - GPUM32404031AA M2 - GPUM33006031AA M3 - GPUM33606031AA M4 - GPUM34208031AA M5 - GPUM34808031AA M6 - GPUM36008031AA	
CAP100450440CS	CAP, 10/45 MFD/ 440V DUAL RD (M5)		
CAB050300440CS	CAP, 5/30 MFD/440V RD - BPRF (M1)		
CAB050400440CT	CAP, 5/40 MFD/440V RD - BPRF (M2, M3)		
CAB050450440CT	CAP, 5/45 MFD/440V RD - BPRF (M4)		
YPS51K1TPFVASC	COMPRESSOR (M6)		
YP20K1TPFVASE	COMPRESSOR (M1)		
YP25K1TPFVASE	COMPRESSOR (M2)		
YP29K1TPFVASE	COMPRESSOR (M3)		
YP34K1TPFVASC	COMPRESSOR (M4)		
YP40K1TPFVASC	COMPRESSOR (M5)		
CONT1P030024D	CONT, 1 POLE, 30 AMP, 24VAC (M1, M2, M3, M4, M5)		
CONT2P040024D	CONT, 2 POLE, 40 AMP, 24VAC (M6)		
0131M00749M	CONTROLLERLESS MOTOR (M6)		
0131M00747M	CONTROLLERLESS MOTOR (M4, M5)		
0131M00750M	CONTROLLERLESS MOTOR (M1, M2, M3)		
0150G00002	FAN BLADE SWP/W (M2)		
0150M00008	FAN BLADE, 22" TNT2203-25 (M1)		
0130F00762	FLAME SENSOR		
0151M00108	GAS VALVE		
0130M20009	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)		
0131M00847	MOTOR, 1/4 HP, 1 SP, 6 PL (M2, M3, M4)		
0131M00979	MOTOR, 1/6 HP, 1SP, 8PL,AL (M1)		
PCBCM301V0001	PCB CONTROL AIR HANDLER		
0131G00141	PROGRAMMED CONTROLLER (M2)		
0131G00139	PROGRAMMED CONTROLLER (M1)		
0131G00146	PROGRAMMED CONTROLLER (M4)		
0131G00143	PROGRAMMED CONTROLLER (M3)		
0131G00148	PROGRAMMED CONTROLLER (M5)		
0131G00152	PROGRAMMED CONTROLLER (M6)		
SER2A08012	SENSATA R32 SENSOR		
0130G00033	SWITCH HIGH LIMIT ULN (M1)		
0130G00033	SWITCH, HIGH LIMIT, ULN (M1)		
0130G00024	SWITCH, HIGH LIMIT, ULN (M4, M5, M6)		
0130G00022	SWITCH, HIGH LIMIT, ULN (M1)		

Top Panel and Cabinet Assembly



CABINET ASSEMBLY



Top Panel and Cabinet Assembly

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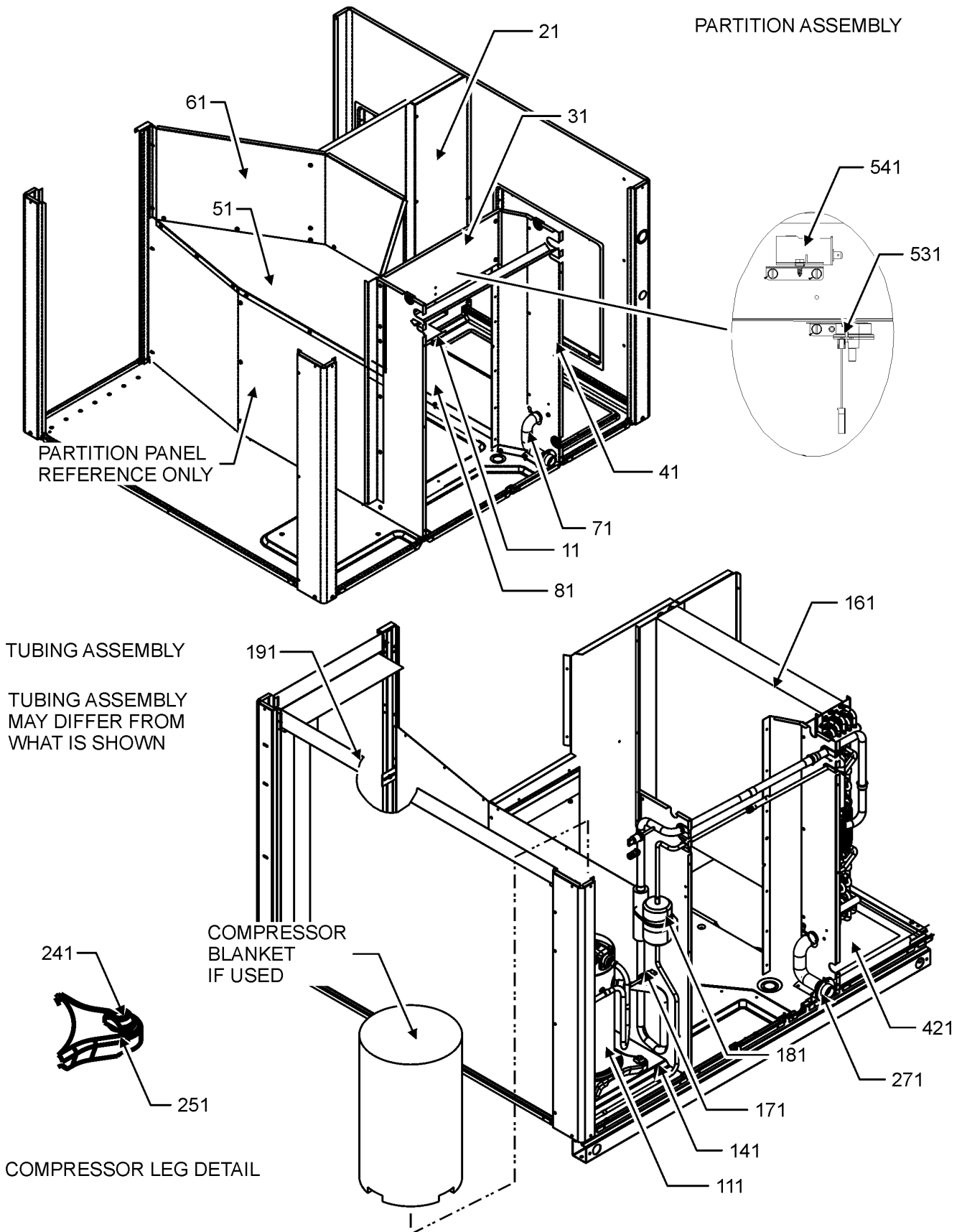
Image 1:

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)
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 7)
61	0163M00006P	ACORN NUT 5/16 HEX BLACK (QTY 4)
71	0161R00123	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	0121G00937	BASEPAN
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	0270G00500	FLUE HOOD ASSY

Expanded Model Nomenclature

M1 - GPUM32404031AA
M2 - GPUM33006031AA
M3 - GPUM33606031AA
M4 - GPUM34208031AA
M5 - GPUM34808031AA
M6 - GPUM36008031AA

Partition and Tubing Assembly



Partition and Tubing Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	20472501	SHIELD-HT TUBES
21	0121G20003	DIVIDER, BLOWER (M4, M5, M6)
21	0121G20009	DIVIDER, BLOWER (M3)
21	0121G20010	DIVIDER, BLOWER (M1, M2)
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)
111	YP20K1TPFVASE	COMPRESSOR (M1)
111	YP25K1TPFVASE	COMPRESSOR (M2)
111	YP29K1TPFVASE	COMPRESSOR (M3)
111	YP34K1TPFVASC	COMPRESSOR (M4)
111	YP40K1TPFVASC	COMPRESSOR (M5)
111	YPS51K1TPFVASC	COMPRESSOR (M6)
141	B1373315	ACCESS FITTING (QTY 2)
161	0202G20018	COIL TUBING ASSEMBLY (M6)
161	0202G20007	COIL TUBING ASSY (M1)
161	0202G20009	COIL TUBING ASSY (M3)
161	0202G20015	COIL TUBING ASSY (M2)
161	0202G20016	COIL TUBING ASSY (M4)
161	0202G20017	COIL TUBING ASSY (M5)
171	0130M20009	HIGH PRESSURE SWITCH
181	0162G00007	SINGLE-FLOW FILTER DRIER,STL (M3, M4, M5, M6)
181	0162G00008	SINGLE-FLOW FILTER DRIER,STL (M1, M2)
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	M0221641	SCREW-SHOULDER TF (QTY 4)
251	B1339533	COMPRESSOR GROMMET (QTY 4)
271	20513001	EVAP DRAIN FITTING
421	20464901DF	DRAIN PAN-EVAP COIL
531	0130M00685	TRANSDUCER PRESSURE SWITCH
541	0130M00684	IGNITION MODULE
NS	0151M00101	ACCESS VALVE FITTING (M6)
NS	0151G00008	ADJUSTABLE VALVE TXV R32 (M6)
NS	0121G00893	BRACKET IGN MODULE MOUNTING
NS	0159G00031	CABLE, COMPR SOL (M6)
NS	0164A00019	GROMMET
NS	0164M00111	GROMMET D (QTY 4)
NS	0164M00110	GROMMET-HORSESHOE
NS	20333401	GROMMET-HORSESHOE
NS	20333501	GROMMET-HORSESHOE
NS	20477501	GROMMET-HORSESHOE
NS	0159G00005	HARNESS-COMP SCROLL (M6)
NS	0159G00014	HARNESS-COMP SCROLL (M1, M2, M3)
NS	0159G00015	HARNESS-COMP SCROLL (M4, M5)
NS	B1810011	HOSE CLAMP 1.25 (QTY 2)

Image 1:

NS	0130M00087	LOW PRESSURE SWITCH (M6)
NS	0163M00629	RED CAP WITH O-RING (QTY 2)

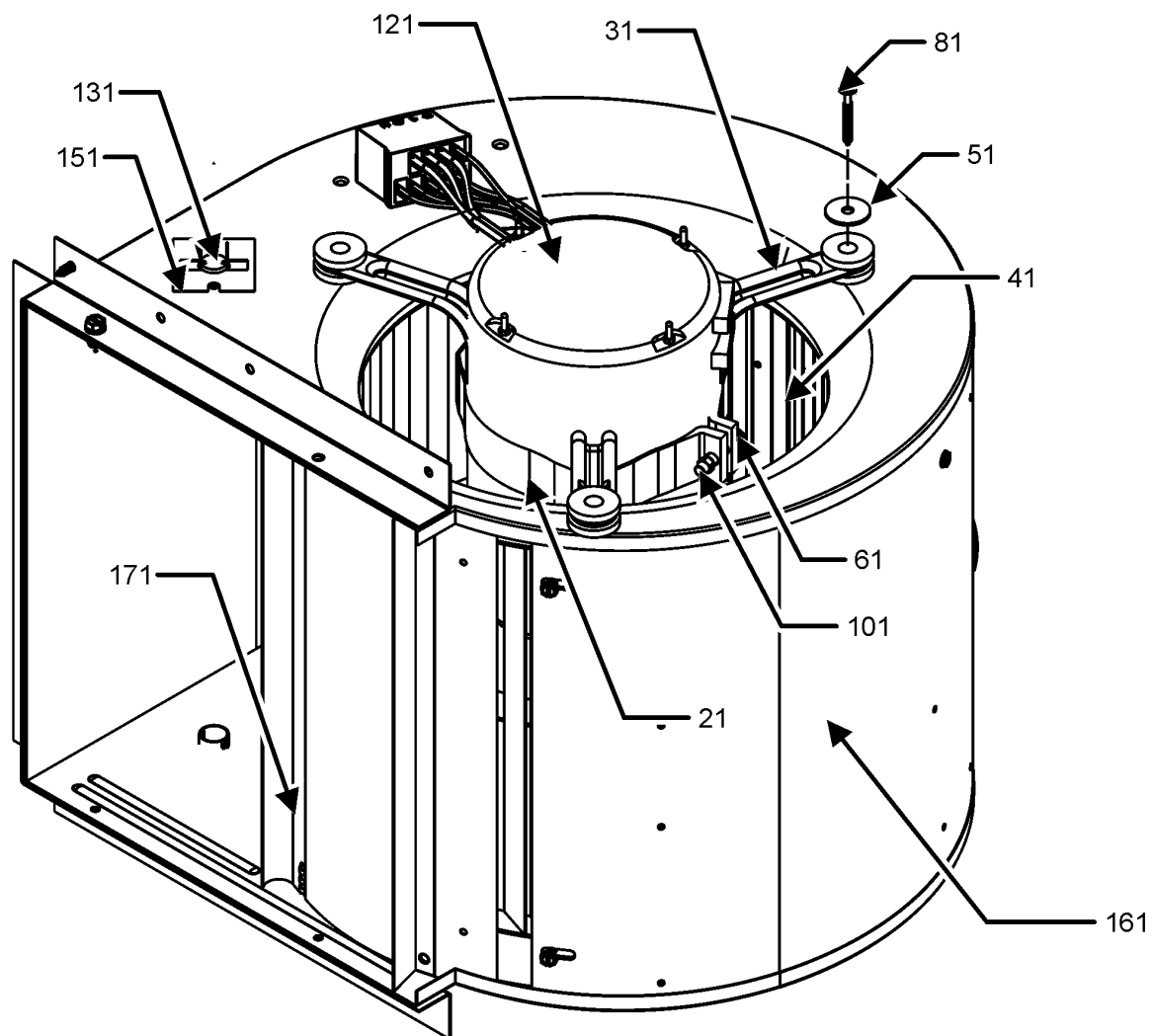
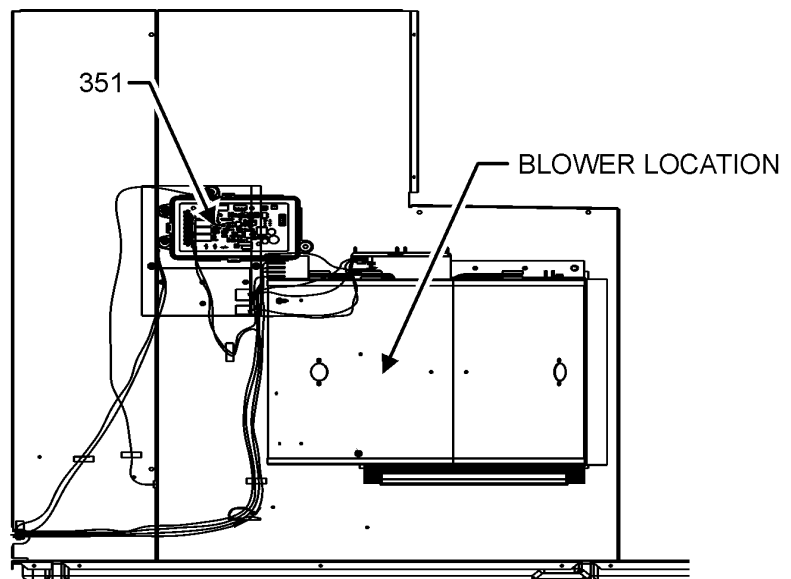
Expanded Model Nomenclature

M1 - GPUM32404031AA
M2 - GPUM33006031AA
M3 - GPUM33606031AA
M4 - GPUM34208031AA
M5 - GPUM34808031AA
M6 - GPUM36008031AA

Blower Assembly

BLOWER ASSEMBLY

BLOWER ASSEMBLY MAY
DIFFER FROM WHAT IS SHOWN



Blower Assembly

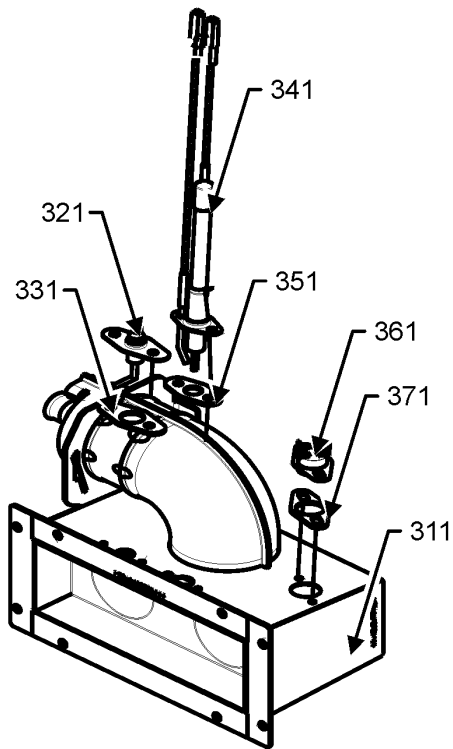
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Image 1:			
21	0121M00038		MOTOR MOUNT BAND
31	B1376857		MOTOR MOUNT ARM (QTY 3)
41	B1368000		BLOWER WHEEL (11 X 10) (M4, M5, M6)
41	B1368016		WHEEL, BLOWER, 10X8 (M1, M2)
41	D6723303		WHEEL-BLOWER (M3)
51	B1392918		WASHER FLAT 1/4 ID X 1 OD (QTY 3)
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)
351	PCBCM301V0001		PCB CONTROL AIR HANDLER
NS	0121G00946		COVER, DOWN DISCHARGE, SINGLE (QTY 2)
NS	0130G00012		ID PLUG (M1)
NS	0130G00013		ID PLUG (M2, M3)
NS	0130G00014		ID PLUG (M4, M5, M6)
NS	0261G20000		PCB CASE

Expanded Model Nomenclature

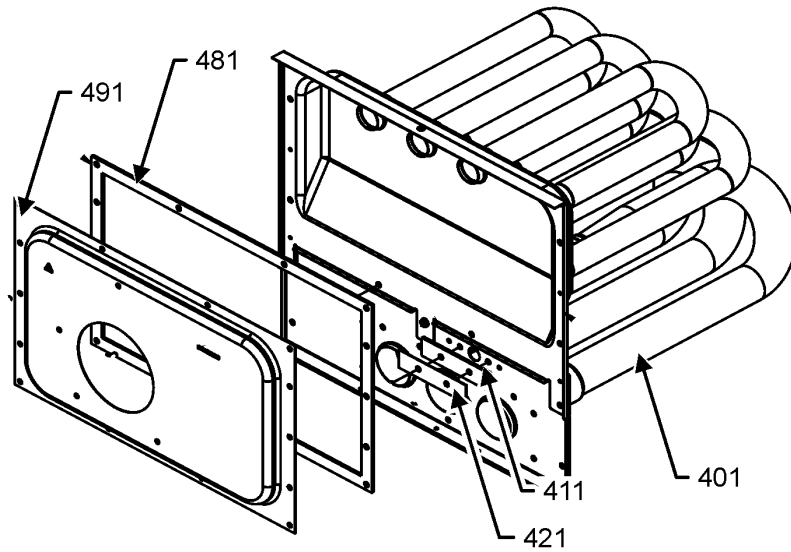
M1 - GPUM32404031AA
M2 - GPUM33006031AA
M3 - GPUM33606031AA
M4 - GPUM34208031AA
M5 - GPUM34808031AA
M6 - GPUM36008031AA

Heat Exchange and Burner Assembly

HEAT EXCHANGE ASSEMBLY

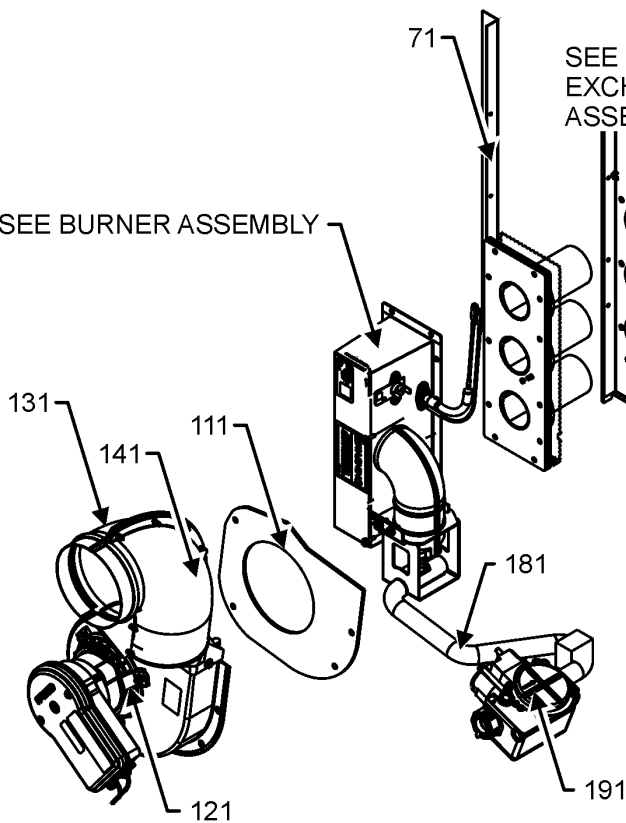


BURNER ASSEMBLY

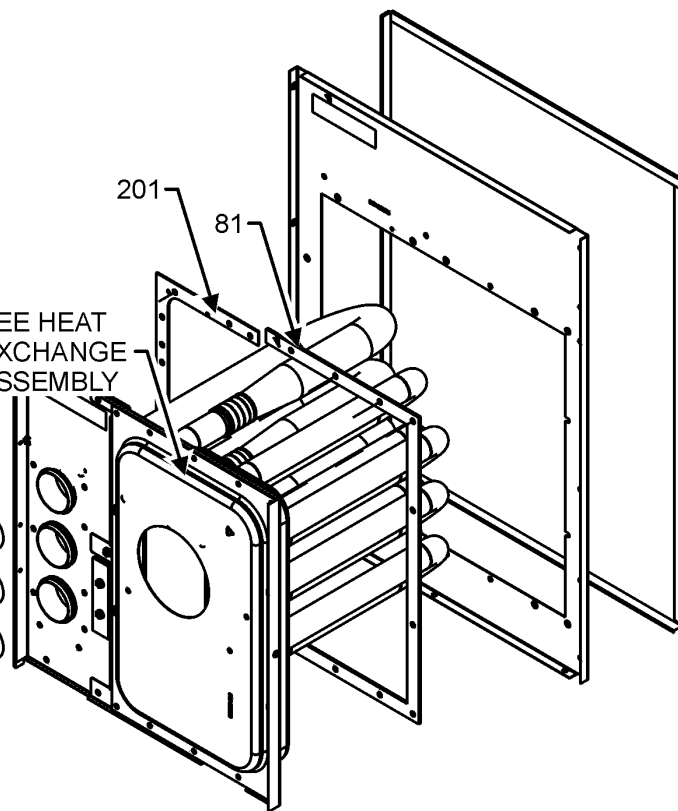


HEAT EXCHANGE ASSEMBLY

SEE BURNER ASSEMBLY



SEE HEAT EXCHANGE ASSEMBLY



HEAT EXCHANGE AND BURNER ASSEMBLY
MAY DIFFER FROM WHAT IS SHOWN

Heat Exchange and Burner Assembly

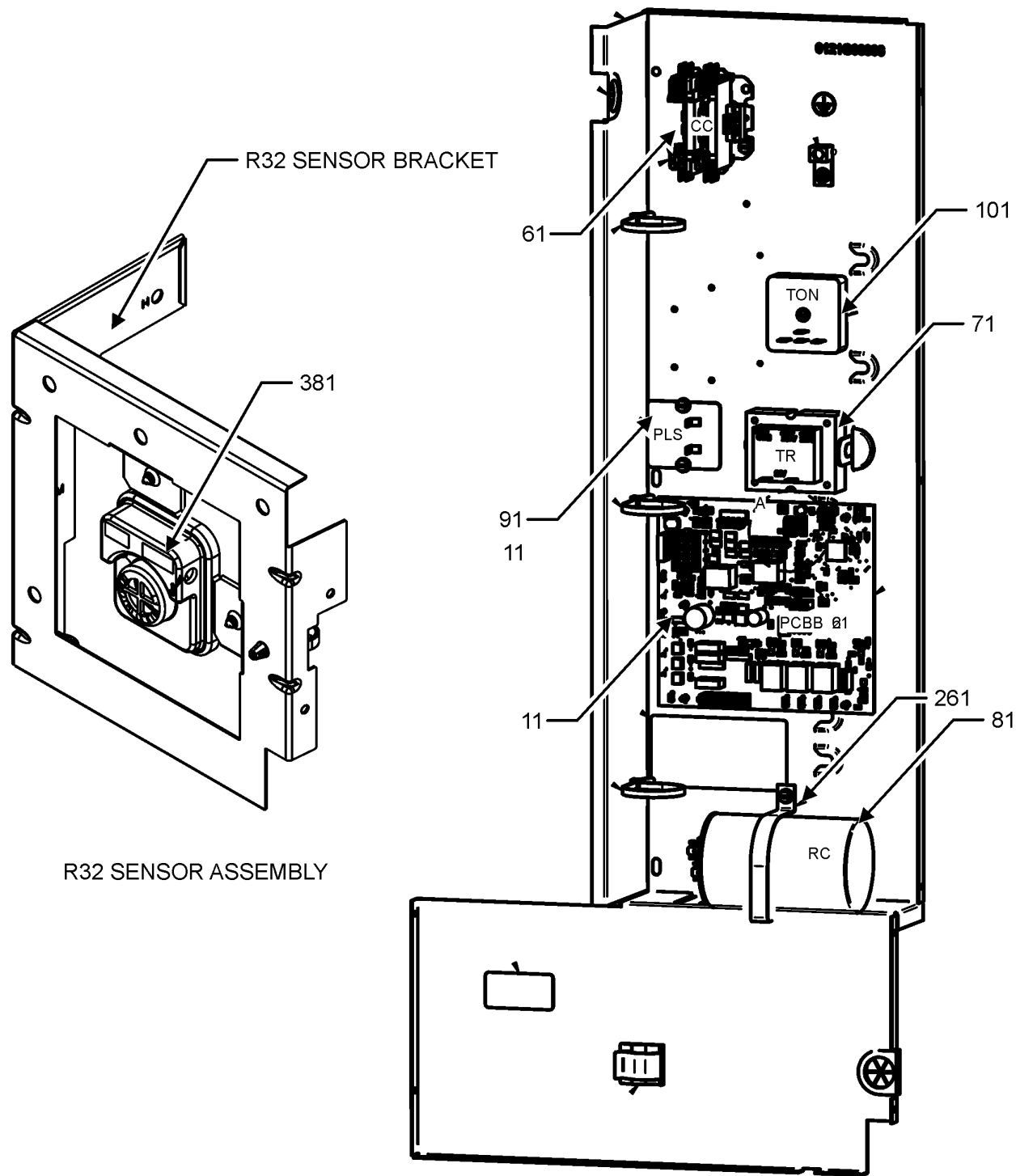
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
71	0121G00815		BRACKET, BURNER PANEL MOUNT (M1)
71	0121G00839		BRACKET, BURNER PANEL MOUNT (M2, M3, M4, M5, M6)
81	0154G00027		HEX MOUNTING GASKET (M2, M3, M4, M5, M6)
111	0154G00033		VENT MOTOR GASKET
121	0131M00966		MOTOR VENT 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	0151M00108		GAS VALVE
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	0130G00021		SWITCH, HIGH LIMIT, ULN (M2, M3)
361	0130G00022		SWITCH, HIGH LIMIT, ULN (M1)
361	0130G00024		SWITCH, HIGH LIMIT, ULN (M4, M5, M6)
361	0130G00033		SWITCH, HIGH LIMIT, ULN (M1)
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 - GPUM32404031AA M2 - GPUM33006031AA M3 - GPUM33606031AA M4 - GPUM34208031AA M5 - GPUM34808031AA M6 - GPUM36008031AA
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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	CONT1P030024D		CONT, 1 POLE, 30 AMP, 24VAC (M1, M2, M3, M4, M5)
61	CONT2P040024D		CONT, 2 POLE, 40 AMP, 24VAC (M6)
71	0130M00138		TRANSFORMER 208/230 24V
81	CAP100400440CT		CAP, 10/40 MFD, 440V/ DUAL RD (M6)
81	CAP100450440CS		CAP, 10/45 MFD/ 440V DUAL RD (M5)
81	CAB050300440CS		CAP, 5/30 MFD/440V RD - BPRF (M1)
81	CAB050400440CT		CAP, 5/40 MFD/440V RD - BPRF (M2, M3)
81	CAB050450440CT		CAP, 5/45 MFD/440V RD - BPRF (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
381	SER2A08012		SENSATA R32 SENSOR
NS	0259G00294		BLOWER HARNESS, 1STG, SHORT (M1, M2, M3)
NS	0259G00280		BLOWER HARNESS, 2STG, TALL (M6)
NS	0121G20000		BRACKET R32 SENSOR
NS	0259G00083		HARNESS-CONTROL (M4, M5)
NS	0259G00329		WIRE HARNESS ASSEMBLY
NS	0259G00330		WIRE HARNESS ASSEMBLY

Expanded Model Nomenclature

M1 - GPUM32404031AA M2 - GPUM33006031AA M3 - GPUM33606031AA M4 - GPUM34208031AA M5 - GPUM34808031AA M6 - GPUM36008031AA
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