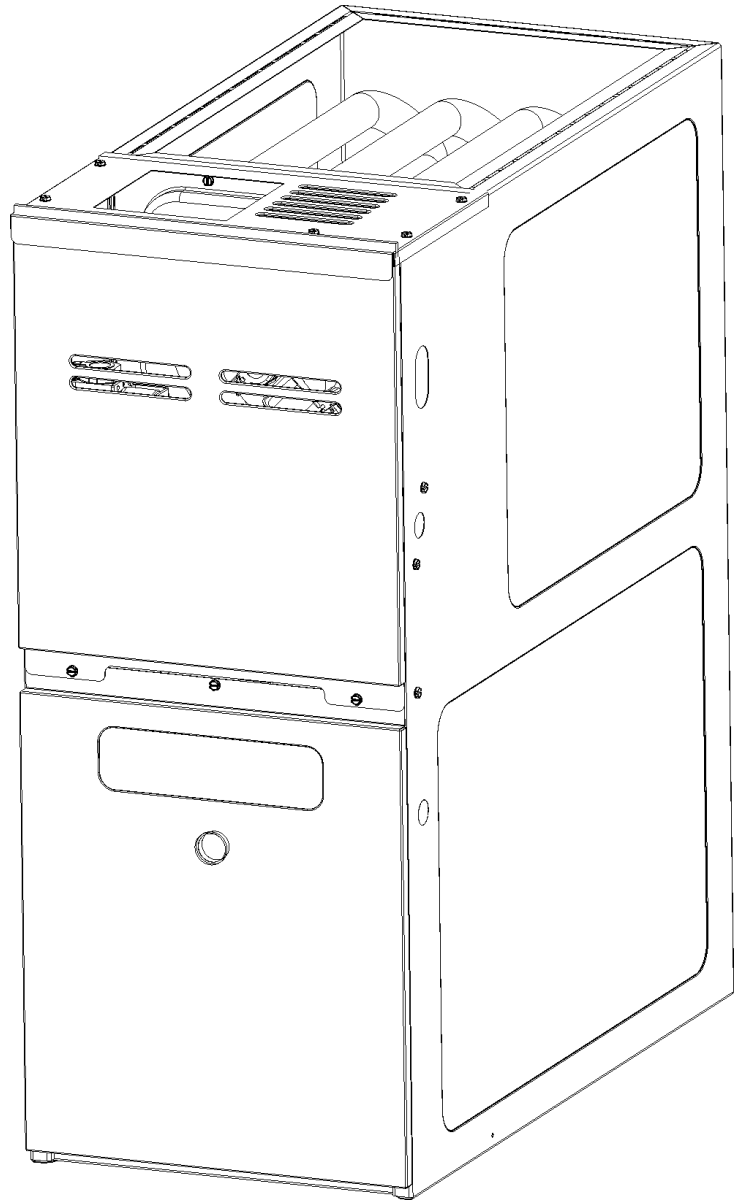


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**GMVC8 80% Variable Speed Communicating  
Furnace**

GMVC80604BNAA  
GMVC80604BNBA  
GMVC80604BNBB  
GMVC80604BNBC  
GMVC80604BXAA  
GMVC80604BXBA  
GMVC80604BXBB  
GMVC80604BXBC  
GMVC80805CNAA  
GMVC80805CNBA  
GMVC80805CNBB  
GMVC80805CNBC  
GMVC80805CXAA  
GMVC80805CXBA  
GMVC80805CXBB  
GMVC80805CXBC  
GMVC81005CNAA  
GMVC81005CNBA  
GMVC81005CNBB  
GMVC81005CNBC  
GMVC81005CXAA  
GMVC81005CXBA  
GMVC81005CXBB  
GMVC81005CXBC



This manual is to be used by qualified technicians only.

This manual replaces RP-671B.

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# Important Information

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## Index

Functional Parts List .....	3
Illustration and Parts .....	4 - 9

*Views shown are for parts illustrations only, not servicing procedures*

REV C: Added vent motor capacitor service part

### 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.

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Consumer Affairs Department  
Goodman Manufacturing Company, L.P.  
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Houston, Texas 77040  
877-254-4729-Telephone  
713-863-2382-Facsimile

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International Division  
Goodman Manufacturing Company, L.P.  
7401 Security Way  
Houston, Texas 77040  
713-861-2500-Telephone  
713-863-2382-Facsimile

# Functional Parts

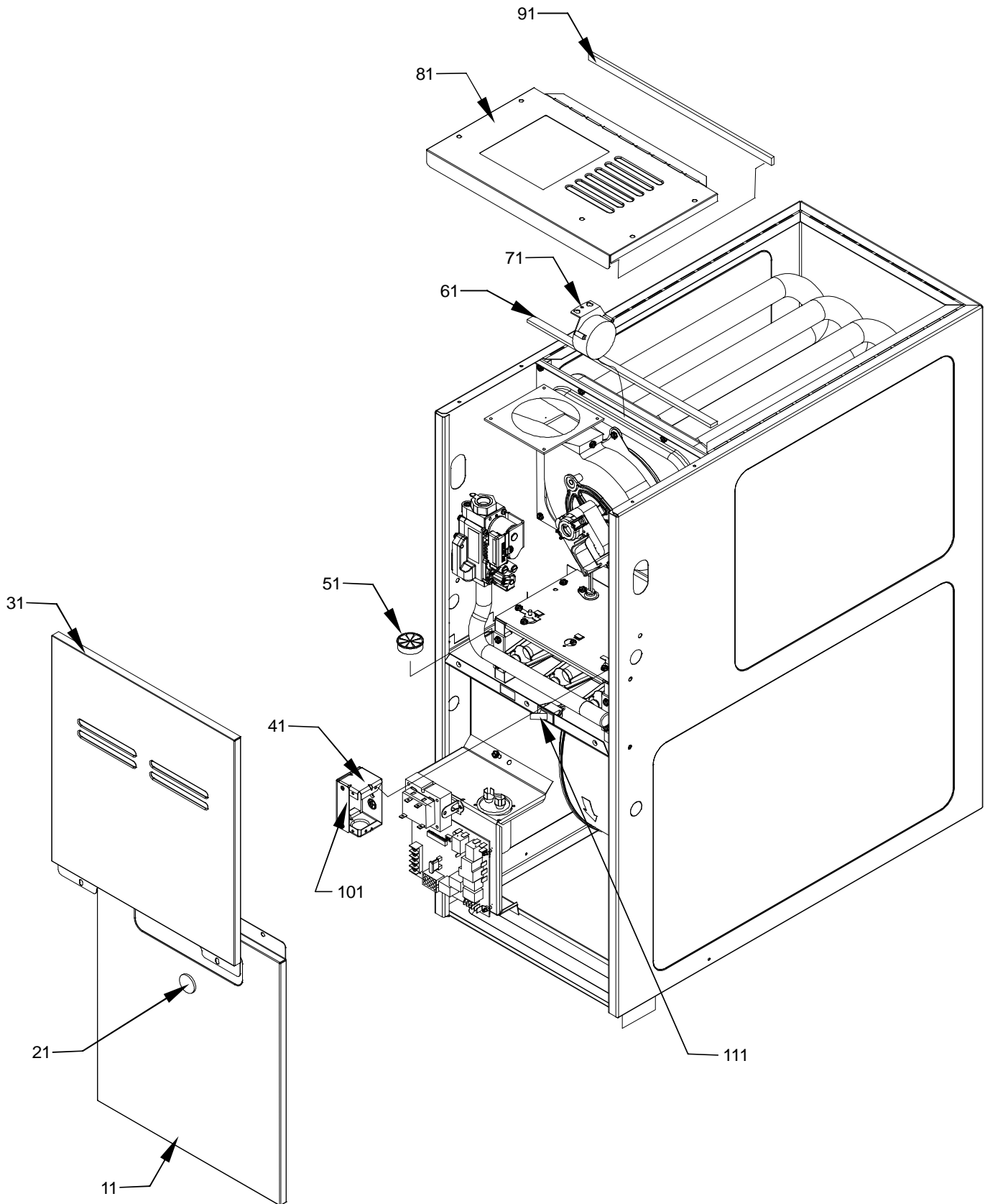
## Part

## No: Description:

Part No:	Description:	0161F00007	GOODMAN NAMEPLATE																								
0130F00050	AIR PRESSURE SWITCH (M9, M13, M17, M21)	Expanded Model Nomenclature																									
0130F00049	AIR PRESSURE SWITCH (M1, M2, M3, M4, M5, M6, M7, M8, M10, M11, M12, M14, M15, M16)	<table border="1"> <tr><td>M1 - GMVC80604BNAA</td></tr> <tr><td>M2 - GMVC80604BNBA</td></tr> <tr><td>M3 - GMVC80604BNBB</td></tr> <tr><td>M4 - GMVC80604BNBC</td></tr> <tr><td>M5 - GMVC80604BXAA</td></tr> <tr><td>M6 - GMVC80604BXBA</td></tr> <tr><td>M7 - GMVC80604BXBB</td></tr> <tr><td>M8 - GMVC80604BXBC</td></tr> <tr><td>M9 - GMVC80805CNAA</td></tr> <tr><td>M10 - GMVC80805CNBA</td></tr> <tr><td>M11 - GMVC80805CNBB</td></tr> <tr><td>M12 - GMVC80805CNBC</td></tr> <tr><td>M13 - GMVC80805CXAA</td></tr> <tr><td>M14 - GMVC80805CXBA</td></tr> <tr><td>M15 - GMVC80805CXBB</td></tr> <tr><td>M16 - GMVC80805CXBC</td></tr> <tr><td>M17 - GMVC81005CNAA</td></tr> <tr><td>M18 - GMVC81005CNBA</td></tr> <tr><td>M19 - GMVC81005CNBB</td></tr> <tr><td>M20 - GMVC81005CNBC</td></tr> <tr><td>M21 - GMVC81005CXAA</td></tr> <tr><td>M22 - GMVC81005CXBA</td></tr> <tr><td>M23 - GMVC81005CXBB</td></tr> <tr><td>M24 - GMVC81005CXBC</td></tr> </table>		M1 - GMVC80604BNAA	M2 - GMVC80604BNBA	M3 - GMVC80604BNBB	M4 - GMVC80604BNBC	M5 - GMVC80604BXAA	M6 - GMVC80604BXBA	M7 - GMVC80604BXBB	M8 - GMVC80604BXBC	M9 - GMVC80805CNAA	M10 - GMVC80805CNBA	M11 - GMVC80805CNBB	M12 - GMVC80805CNBC	M13 - GMVC80805CXAA	M14 - GMVC80805CXBA	M15 - GMVC80805CXBB	M16 - GMVC80805CXBC	M17 - GMVC81005CNAA	M18 - GMVC81005CNBA	M19 - GMVC81005CNBB	M20 - GMVC81005CNBC	M21 - GMVC81005CXAA	M22 - GMVC81005CXBA	M23 - GMVC81005CXBB	M24 - GMVC81005CXBC
M1 - GMVC80604BNAA																											
M2 - GMVC80604BNBA																											
M3 - GMVC80604BNBB																											
M4 - GMVC80604BNBC																											
M5 - GMVC80604BXAA																											
M6 - GMVC80604BXBA																											
M7 - GMVC80604BXBB																											
M8 - GMVC80604BXBC																											
M9 - GMVC80805CNAA																											
M10 - GMVC80805CNBA																											
M11 - GMVC80805CNBB																											
M12 - GMVC80805CNBC																											
M13 - GMVC80805CXAA																											
M14 - GMVC80805CXBA																											
M15 - GMVC80805CXBB																											
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M20 - GMVC81005CNBC																											
M21 - GMVC81005CXAA																											
M22 - GMVC81005CXBA																											
M23 - GMVC81005CXBB																											
M24 - GMVC81005CXBC																											
0130F00218	DATA, FURNACE PCB (M5)																										
0130F00215	DATA, FURNACE PCB (M1)																										
0130F00217	DATA, FURNACE PCB (M17)																										
0130F00219	DATA, FURNACE PCB (M13)																										
0130F00220	DATA, FURNACE PCB (M21)																										
0130F00233	DATA, FURNACE PCB (M2)																										
0130F00234	DATA, FURNACE PCB (M10)																										
0130F00235	DATA, FURNACE PCB (M18)																										
0130F00236	DATA, FURNACE PCB (M6)																										
0130F00237	DATA, FURNACE PCB (M14)																										
0130F00238	DATA, FURNACE PCB (M22)																										
0130F00420	DATA, FURNACE PCB (M24)																										
0130F00216	DATA, FURNACE PCB (M9)																										
0130F00264	DATA, FURNACE PCB (M3)																										
0130F00419	DATA, FURNACE PCB (M20)																										
0130F00417	DATA, FURNACE PCB (M12)																										
0130F00416	DATA, FURNACE PCB (M8)																										
0130F00415	DATA, FURNACE PCB (M4)																										
0130F00269	DATA, FURNACE PCB (M23)																										
0130F00268	DATA, FURNACE PCB (M19)																										
0130F00267	DATA, FURNACE PCB (M15)																										
0130F00266	DATA, FURNACE PCB (M11)																										
0130F00265	DATA, FURNACE PCB (M7)																										
0130F00418	DATA, FURNACE PCB (M16)																										
0130F00010	FLAME SENSOR																										
0130F00008	IGNITOR-SINI 17 SEC																										
0130M00141	INDUCTOR, 5.9 AMPS (GMPE100-4)																										
B1370818	INTERLOCK SWITCH																										
10123529	MANUAL RESET LIMIT (QTY 2)																										
0131M00271	MOTOR, 3/4 HP, SERIAL ECM																										
PCBKF102	PCB, CONTROL, FURNACE (M1, M2, M5, M6, M9, M10, M13, M14, M17, M18, M21, M22)																										
PCBKF104	PCB, CONTROL, FURNACE (M3, M4, M7, M8, M11, M12, M15, M16, M19, M20, M23, M24)																										
B1370210	PRESSURE SWITCH, PINK (M18, M19, M20, M22, M23, M24)																										
20162903	PRIMARY LIMIT - BLUE (M1, M5)																										
0130M00063	PRIMARY LIMIT - GOLD 140° (M2, M3, M4, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)																										
0130F00038	PRIMARY LIMIT - LT BLUE 120°																										
20162904	PRIMARY LIMIT-TEMPERATURE CONTROL (M17, M21)																										
20162905	PRIMARY LIMIT-YELLOW (M18, M19, M20, M22, M23, M24)																										
0130M00140	TRANSFORMER,(120V TO 24V,40VA,																										
0151M00028	VALVE,GAS(HW)VR92																										
DY6.186.070	VENT MOTOR CAPACITOR																										
0131M00003P	VENT MOTOR, 2-STAGE																										

## SPECIAL PARTS

# Cabinet



# Cabinet

**Ref. Part  
No: No:**

**Description:**

**Ref. Part  
No: No:**

**Description:**

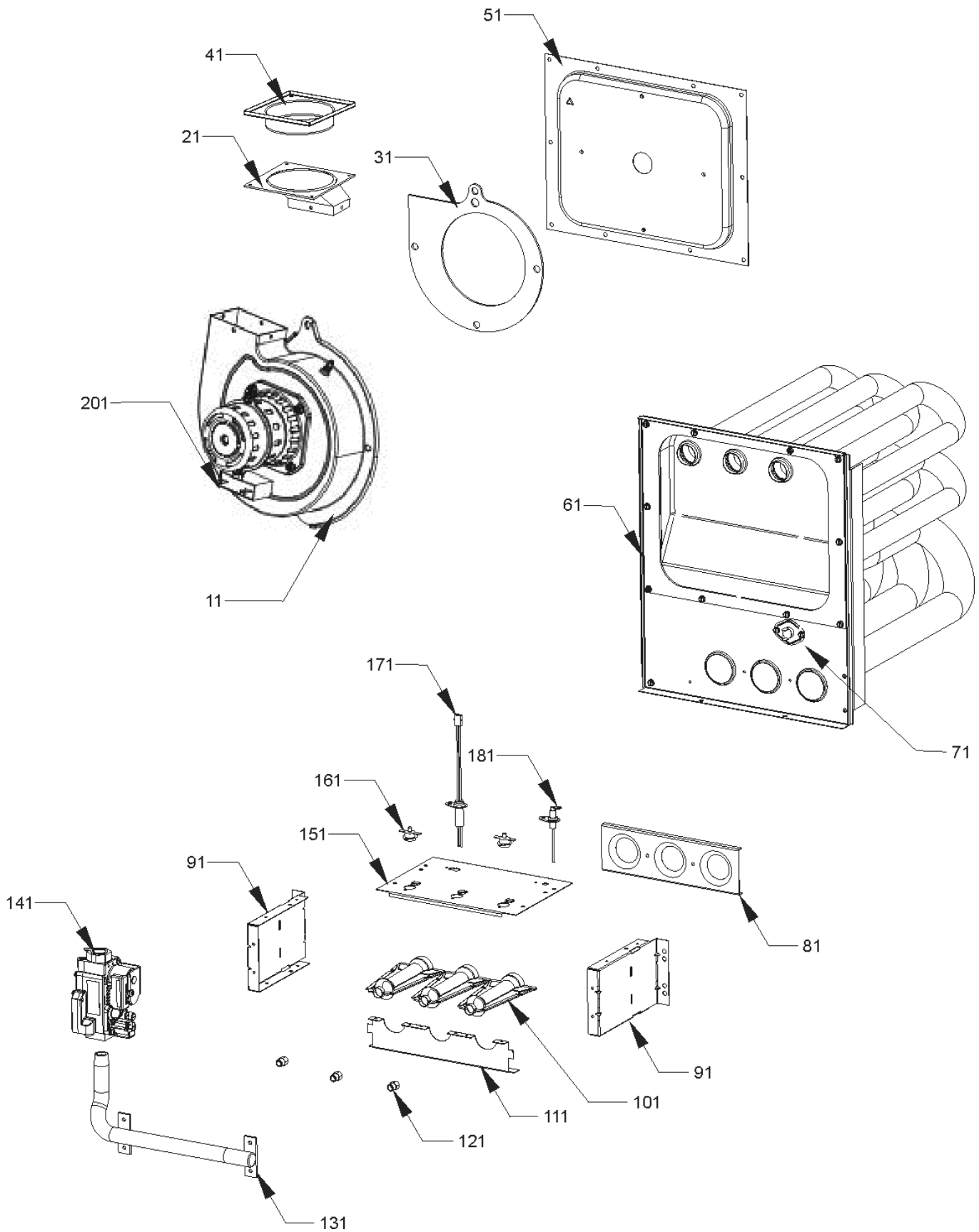
*Image 1:*

11	0121F00123DG	BLOWER ACCESS DOOR 17.5" (M1, M2, M3, M4, M5, M6, M7, M8)
11	0121F00124DG	BLOWER ACCESS DOOR 21" (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
21	B1392139	VIEW PORT BUSHING-BLOWER DOOR
31	0121F00119DG	CONTROL ACCESS DOOR 17.5" (M1, M2, M3, M4, M5, M6, M7, M8)
31	0121F00120DG	CONTROL ACCESS DOOR 21" (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
31	B13926112	SEAL STRIP, 1/8 X 1/2 X 17.5 (M1, M2, M3, M4, M5, M6, M7, M8)
41	4014502	J-BOX
51	B1392147	UNIVERSAL BUSHING WITH SLICE
61	B13926112	SEAL STRIP, 1/8 X 1/2 X 17.5 (M1, M2, M3, M4, M5, M6, M7, M8)
61	B13926113	SEAL STRIP, 1/8 X 1/2 X 21 (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
71	0130F00049	AIR PRESSURE SWITCH (M1, M2, M3, M4, M5, M6, M7, M8, M10, M11, M12, M14, M15, M16)
71	0130F00050	AIR PRESSURE SWITCH (M9, M13, M17, M21)
71	B1370210	PRESSURE SWITCH, PINK (M18, M19, M20, M22, M23, M24)
81	0121F00142DG	TOP 17.5" (M1, M2, M3, M4, M5, M6, M7, M8)
81	0121F00143DG	TOP 21" (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
91	B13926112	SEAL STRIP, 1/8 X 1/2 X 17.5 (M1, M2, M3, M4, M5, M6, M7, M8)
91	B13926113	SEAL STRIP, 1/8 X 1/2 X 21 (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
101	4015502	J-BOX COVER
111	B1370818	INTERLOCK SWITCH
NS	0161F00007	GOODMAN NAMEPLATE
NS	0259F00062	INDUCER HARNESS ASSY
NS	0270K00016	SOLID BOTTOM 17.5" CASE (M1, M2, M3, M4, M5, M6, M7, M8)
NS	1819002	SOLID BOTTOM 21" CASE (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
NS	0259F00063	WIRE HARNESS ASSY
NS	0259F00075	WIRE HARNESS ASSY (M1, M2, M5, M6, M9, M10, M13, M14, M17, M18, M21, M22)
NS	0259F00081	WIRE HARNESS ASSY (M3, M4, M7, M8, M11, M12, M15, M16, M19, M20, M23, M24)

Expanded Model Nomenclature

M1 - GMVC80604BNAA
M2 - GMVC80604BNBA
M3 - GMVC80604BNBB
M4 - GMVC80604BNBC
M5 - GMVC80604BXAA
M6 - GMVC80604BXBA
M7 - GMVC80604BXBB
M8 - GMVC80604BXBC
M9 - GMVC80805CNA
M10 - GMVC80805CNBA
M11 - GMVC80805CNBB
M12 - GMVC80805CNBC
M13 - GMVC80805CXAA
M14 - GMVC80805CXBA
M15 - GMVC80805CXBB
M16 - GMVC80805CXBC
M17 - GMVC81005CNA
M18 - GMVC81005CNBA
M19 - GMVC81005CNBB
M20 - GMVC81005CNBC
M21 - GMVC81005CXAA
M22 - GMVC81005CXBA
M23 - GMVC81005CXBB
M24 - GMVC81005CXBC

# Heat Exchanger Assembly



# Heat Exchanger Assembly

**Ref. Part  
No: No:**

**Description:**

*Image 1:*

11	0131M00003P	VENT MOTOR, 2-STAGE
21	0128F00006	CHIMNEY TRANSITION BOTTOM
31	0154F00004	VENT MOTOR GASKET 17.5" (M1, M2, M3, M4, M5, M6, M7, M8)
31	0154F00005	VENT MOTOR GASKET 21" (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
41	4023500	CHIMNEY TRANSITION TOP
51	0121F00332	17.5" COLLECTOR BOX 1.375" DIA (M2, M3, M4, M6, M7, M8)
51	0121F00333	21" COLLECTOR BOX 1.75" DIA (M18, M19, M20, M22, M23, M24)
51	0121F00336	21" FLUE COLLECTOR BOX 1.50" (M10, M11, M12, M14, M15, M16)
51	0121F00216	COLLECTOR BOX (M1, M5)
51	0121F00217	COLLECTOR BOX (M9, M13, M17, M21)
61	0270F00903	HEAT EXCHANGER ASSY (M17, M18, M19, M20, M21, M22, M23, M24)
61	0270F00929	HEAT EXCHANGER ASSY (M1, M2, M3, M4, M5, M6, M7, M8)
61	0270F00930	HEAT EXCHANGER ASSY (M9, M10, M11, M12, M13, M14, M15, M16)
71	20162903	PRIMARY LIMIT - BLUE (M1, M5)
71	0130M00063	PRIMARY LIMIT - GOLD 140° (M2, M3, M4, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
71	20162904	PRIMARY LIMIT-TEMPERATURE CONTROL (M17, M21)
71	20162905	PRIMARY LIMIT-YELLOW (M18, M19, M20, M22, M23, M24)
81	4028001	ORIFICE SHIELD 3 CELL (M1, M2, M3, M4, M5)
81	4028002	ORIFICE SHIELD 4 CELL (M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16)
81	4028003	ORIFICE SHIELD 5 CELL (M17, M18, M19, M20, M21, M22, M23, M24)
91	0121F00146	BURNER BOX SIDE (QTY 2)
101	B4022700	INSHOT BURNER ASSY 3" (QTY A/R)
111	0121F00168	BURNER BRACKET 3B (M1, M2, M3, M4, M5, M6, M7, M8)
111	0121F00169	BURNER BRACKET 4B (M9, M10, M11, M12, M13, M14, M15, M16)
111	0121F00170	BURNER BRACKET 5B (M17, M18, M19, M20, M21, M22, M23, M24)
121	10716003	ORIFICE (M1, M5, M9, M13, M17, M21)
121	B4089345	ORIFICE (M2, M3, M4, M6, M7, M8, M10, M11, M12, M14, M15, M16, M18, M19, M20, M22, M23, M24)
131	0120F00007	MANIFOLD (M1, M2, M3, M4, M5, M6, M7, M8)
131	0120F00008	MANIFOLD (M9, M10, M11, M12, M13, M14, M15, M16)
131	0120F00009	MANIFOLD (M17, M18, M19, M20, M21, M22, M23, M24)
141	0151M00028	VALVE,GAS(HW)VR92
151	0121F00163	BURNER BOX TOP 3 CELL (M1, M2, M3, M4, M5, M6, M7, M8)
151	0121F00164	BURNER BOX TOP 4 CELL (M9, M10, M11, M12, M13, M14, M15, M16)
151	0121F00165	BURNER BOX TOP 5 CELL (M17, M18, M19, M20, M21, M22, M23, M24)
161	10123529	MANUAL RESET LIMIT (QTY 2)

**Ref. Part  
No: No:**

**Description:**

*Image 1:*

171	0130F00008	IGNITOR-SINI 17 SEC
181	0130F00010	FLAME SENSOR
201	DY6.186.070	VENT MOTOR CAPACITOR

Expanded Model Nomenclature

M1 - GMVC80604BNAA
M2 - GMVC80604BNBA
M3 - GMVC80604BNBB
M4 - GMVC80604BNBC
M5 - GMVC80604BXAA
M6 - GMVC80604BXBA
M7 - GMVC80604BXBB
M8 - GMVC80604BXBC
M9 - GMVC80805CNAA
M10 - GMVC80805CNBA
M11 - GMVC80805CNBB
M12 - GMVC80805CNBC
M13 - GMVC80805CXAA
M14 - GMVC80805CXBA
M15 - GMVC80805CXBB
M16 - GMVC80805CXBC
M17 - GMVC81005CNAA
M18 - GMVC81005CNBA
M19 - GMVC81005CNBB
M20 - GMVC81005CNBC
M21 - GMVC81005CXAA
M22 - GMVC81005CXBA
M23 - GMVC81005CXBB
M24 - GMVC81005CXBC

# Blower and Control Panel

Image 1

\*If end bells are needed please order the following:  
0131M00182 - 1/2 HP  
0131M00183 - 3/4 HP  
0131M00184 - 1 HP

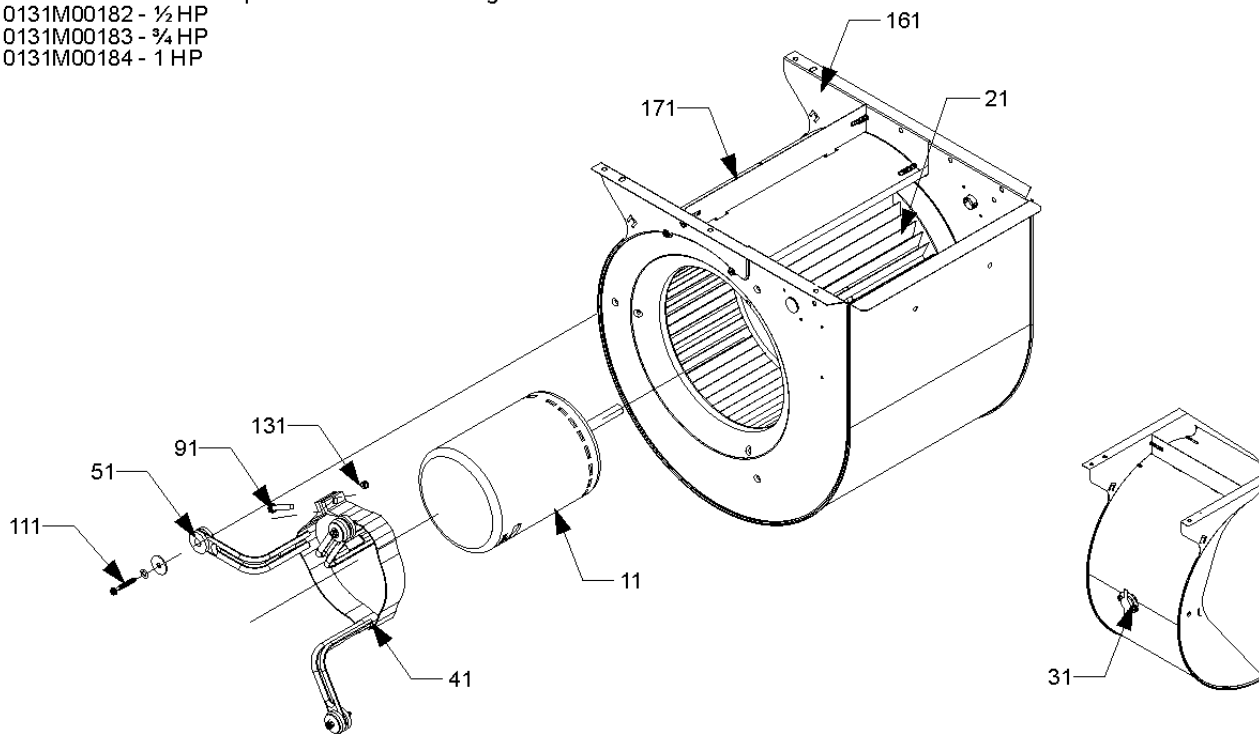
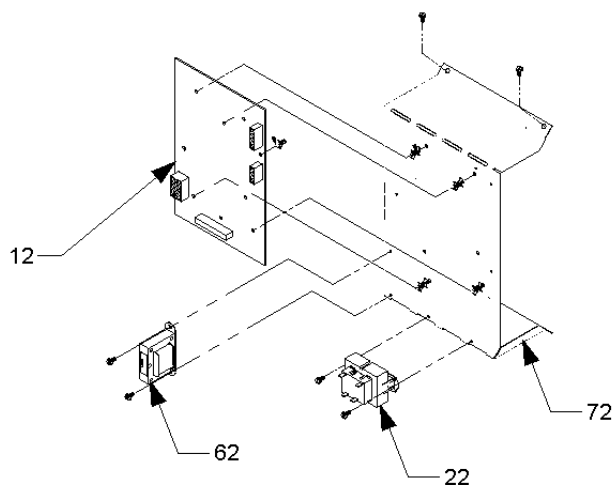


Image 2





# Blower and Control Panel

**Ref. Part  
No: No:**

**Description:**

*Image 1:*

11	0131M00271	MOTOR, 3/4 HP, SERIAL ECM
21	0150M00035	BLOWER WHEEL 10 X 10 (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
21	B1368016	BLOWER WHEEL 10 X 8 (M1, M2, M3, M4, M5, M6, M7, M8)
31	0130F00038	PRIMARY LIMIT - LT BLUE 120°
41	0121M00038	MOTOR MOUNT BAND
51	B1376853	MOTOR MOUNT ARM (QTY 3)
91	B1393323	MACHINE SCREW HWH 1/4-20 X 1-1/2 BZ
111	M0250565	TC SCREW 1.25" (QTY 3)
131	B1393800	LOCKNUT, NYLON, INSERT 1/4, 20
161	0271F00111	BLOWER SHELL ASSY (M1, M2, M3, M4, M5, M6, M7, M8)
161	0271F00112	BLOWER SHELL ASSY (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
171	764741F	BLOWER BLOCK-OFF 10 X 10 (M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
171	764740	BLOWER BLOCK-OFF 10 X 8 (M1, M2, M3, M4, M5, M6, M7, M8)
NS	0259F00048	HARNESS, CONTROL
NS	0259F00049	HARNESS, POWER

*Image 2:*

12	PCBKF102	PCB, CONTROL, FURNACE (M1, M2, M5, M6, M9, M10, M13, M14, M17, M18, M21, M22)
12	PCBKF104	PCB, CONTROL, FURNACE (M3, M4, M7, M8, M11, M12, M15, M16, M19, M20, M23, M24)
22	0130M00140	TRANSFORMER, (120V TO 24V, 40VA,
62	0130M00141	INDUCTOR, 5.9 AMPS (GMPE100-4)
72	0121F00218	PANEL, CONTROL MOUNTING
NS	0130F00215	DATA, FURNACE PCB (M1)
NS	0130F00216	DATA, FURNACE PCB (M9)
NS	0130F00217	DATA, FURNACE PCB (M17)
NS	0130F00218	DATA, FURNACE PCB (M5)
NS	0130F00219	DATA, FURNACE PCB (M13)
NS	0130F00220	DATA, FURNACE PCB (M21)
NS	0130F00233	DATA, FURNACE PCB (M2)
NS	0130F00234	DATA, FURNACE PCB (M10)
NS	0130F00235	DATA, FURNACE PCB (M18)
NS	0130F00236	DATA, FURNACE PCB (M6)
NS	0130F00237	DATA, FURNACE PCB (M14)
NS	0130F00238	DATA, FURNACE PCB (M22)
NS	0130F00264	DATA, FURNACE PCB (M3)
NS	0130F00265	DATA, FURNACE PCB (M7)
NS	0130F00266	DATA, FURNACE PCB (M11)
NS	0130F00267	DATA, FURNACE PCB (M15)
NS	0130F00268	DATA, FURNACE PCB (M19)
NS	0130F00269	DATA, FURNACE PCB (M23)
NS	0130F00415	DATA, FURNACE PCB (M4)
NS	0130F00416	DATA, FURNACE PCB (M8)
NS	0130F00417	DATA, FURNACE PCB (M12)
NS	0130F00418	DATA, FURNACE PCB (M16)
NS	0130F00419	DATA, FURNACE PCB (M20)

**Ref. Part  
No: No:**

**Description:**

*Image 2:*

NS 0130F00420 DATA, FURNACE PCB (M24)

Expanded Model Nomenclature

M1 - GMVC80604BNAA
M2 - GMVC80604BNBA
M3 - GMVC80604BNBB
M4 - GMVC80604BNBC
M5 - GMVC80604BXAA
M6 - GMVC80604BXBA
M7 - GMVC80604BXBB
M8 - GMVC80604BXBC
M9 - GMVC80805CNAA
M10 - GMVC80805CNBA
M11 - GMVC80805CNBB
M12 - GMVC80805CNBC
M13 - GMVC80805CXAA
M14 - GMVC80805CXBA
M15 - GMVC80805CXBB
M16 - GMVC80805CXBC
M17 - GMVC81005CNAA
M18 - GMVC81005CNBA
M19 - GMVC81005CNBB
M20 - GMVC81005CNBC
M21 - GMVC81005CXAA
M22 - GMVC81005CXBA
M23 - GMVC81005CXBB
M24 - GMVC81005CXBC

\*If end bells are needed please order the following:  
0131M00182 - 1/2 HP  
0131M00183 - 3/4 HP  
0131M00184 - 1 HP