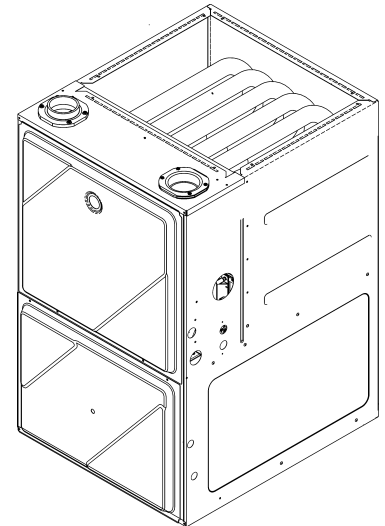


GM9C 96% Multi-Speed ECM Up Flow Furnace

GM9C960303ANAA
GM9C960403ANAA
GM9C960603ANAA
GM9C960603BNAA
GM9C960803BNAA
GM9C960804CNAA
GM9C961004CNAA
GM9C961005CNAA
GM9C961205DNAA



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 - 11

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:

20162904	*PRIMARY LIMIT-TEMPERATURE CONTROL (M5, M6)
0257F00442	ASSY, HEAT EXCHANGER (M2)
0257F00445	ASSY, HEAT EXCHANGER (M3)
0257F00444	ASSY, HEAT EXCHANGER (M1)
0130F00038	AUX LIMIT - LT BLUE 120° (QTY 2)
0163F00017	BECKETT BURNER (QTY 2)
0271F00163	BLOWER SHELL & WHEEL ASSY (M9)
0271F00161	BLOWER SHELL & WHEEL ASSY (M6, M7, M8)
0271F00159	BLOWER SHELL & WHEEL ASSY (M4, M5)
PCBBF164	CIRCUIT BOARD FURNACE
0130F00010	FLAME SENSOR
0151M00027	GAS VALVE
0257F00396	HEAT EXCHANGER ASSY (M8)
0257F00379	HEAT EXCHANGER ASSY (M5)
0257F00374	HEAT EXCHANGER ASSY (M4)
0257F00333	HEAT EXCHANGER ASSY (M9)
0257F00240	HEAT EXCHANGER ASSY (M6)
0257F00393	HEAT EXCHANGER ASSY (M7)
0171M00007	ID BLOWER, 2 Stg (M1, M2, M3)
0130F00008	IGNITOR-SINI 17 SEC
0130M00243	INTERLOCK SWITCH
0130F00123	MANUAL RESET LIMIT - ROS (M5)
10123539	MANUAL RESET LIMIT - ROS (M4, M6)
10123538	MANUAL RESET LIMIT - ROS (M1, M2)
10123527	MANUAL RESET LIMIT - ROS (M9)
10123534	MANUAL RESET LIMIT - ROS (M7, M8)
10123517	MANUAL RESET LIMIT - ROS (M3)
0131F00240	MOTOR PROGRAMMED (M9)
0131F00232	MOTOR PROGRAMMED (M1)
0131F00233	MOTOR PROGRAMMED (M2)
0131F00234	MOTOR PROGRAMMED (M3)
0131F00236	MOTOR PROGRAMMED (M5)
0131F00237	MOTOR PROGRAMMED (M6)
0131F00238	MOTOR PROGRAMMED (M7)
0131F00239	MOTOR PROGRAMMED (M8)
0131F00235	MOTOR PROGRAMMED (M4)
0171M00002	MOTOR-ID, BLOWER (M4, M5, M6, M7, M8, M9)
0130F00646	PRESSURE SWITCH (M3)
0130F00645	PRESSURE SWITCH (M3)
0130F00644	PRESSURE SWITCH (M2)
0130F00643	PRESSURE SWITCH (M1)
0130F00647	PRESSURE SWITCH (M1, M2)
0130F00429	PRESSURE SWITCH (M4, M5, M6, M7, M8, M9)
20162903	PRIMARY LIMIT - BLUE (M1, M2, M3, M8)
0130F00036	PRIMARY LIMIT - PINK 180° (M9)
20162906	PRIMARY LIMIT - WHITE (M4, M7)
0130F00434	SWITCH, PRESSURE (M7)
0130F00435	SWITCH, PRESSURE (M4)
0130F00436	SWITCH, PRESSURE (M5)
0130F00443	SWITCH, PRESSURE (M6, M8)
0130F00445	SWITCH, PRESSURE (M9)
0130M00140	TRANSFORMER 120V TO 24V, 40VA

SPECIAL PARTS

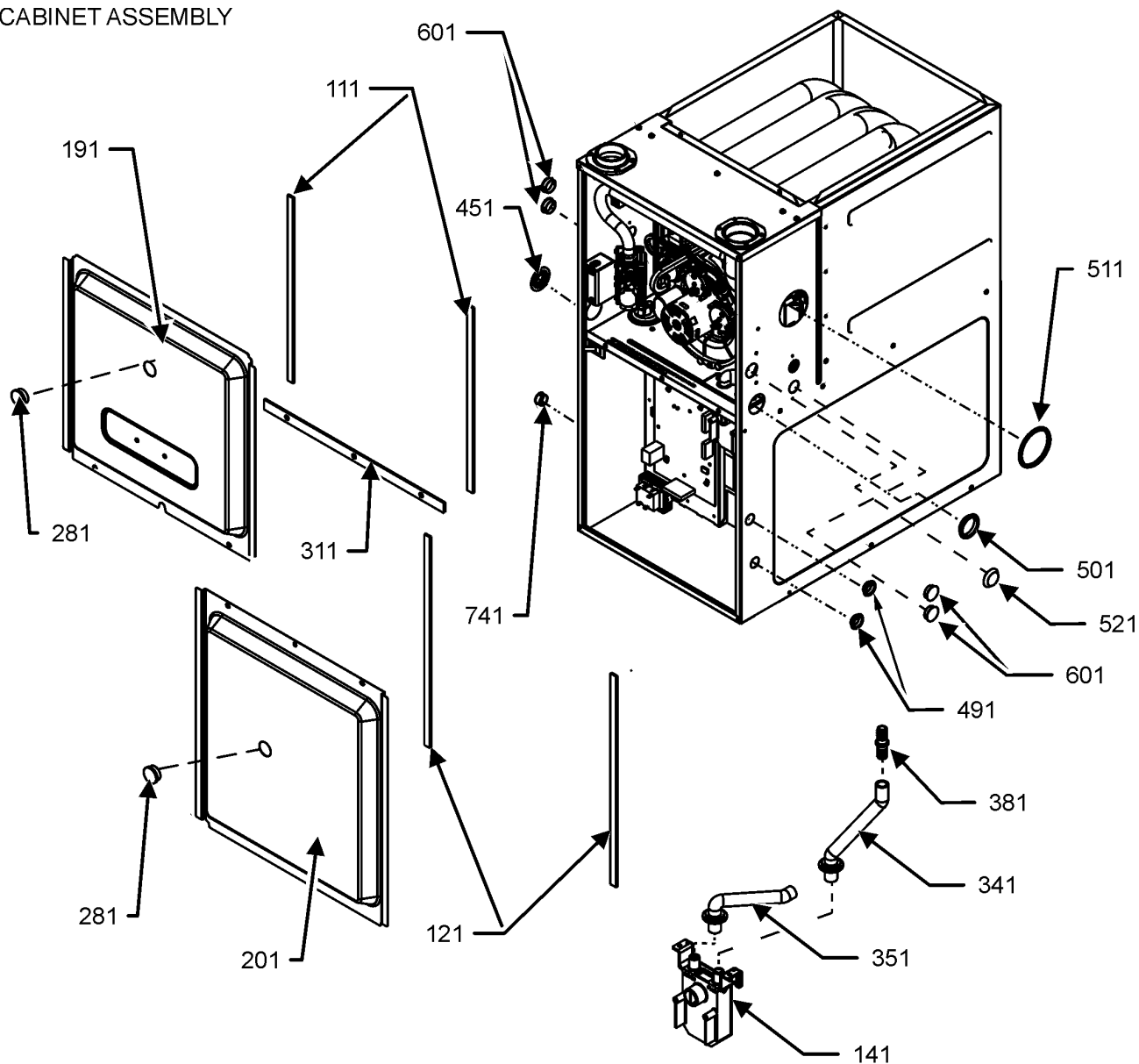
0161F00086 NAMEPLATE, GOODMAN

Expanded Model Nomenclature

M1 - GM9C960303ANAA
M2 - GM9C960403ANAA
M3 - GM9C960603ANAA
M4 - GM9C960603BNAA
M5 - GM9C960803BNAA
M6 - GM9C960804CNAA
M7 - GM9C961004CNAA
M8 - GM9C961005CNAA
M9 - GM9C961205DNAA

Cabinet Assembly

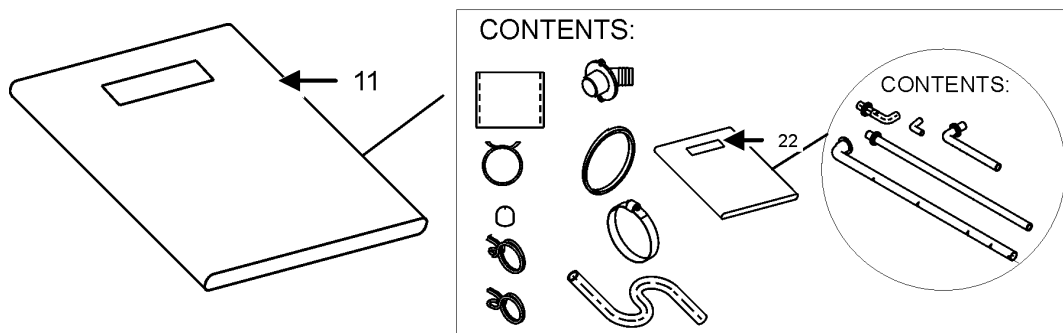
CABINET ASSEMBLY



CABINET ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

DRAIN TRAP ASSEMBLY

DRAIN KIT ASSEMBLY



Cabinet Assembly

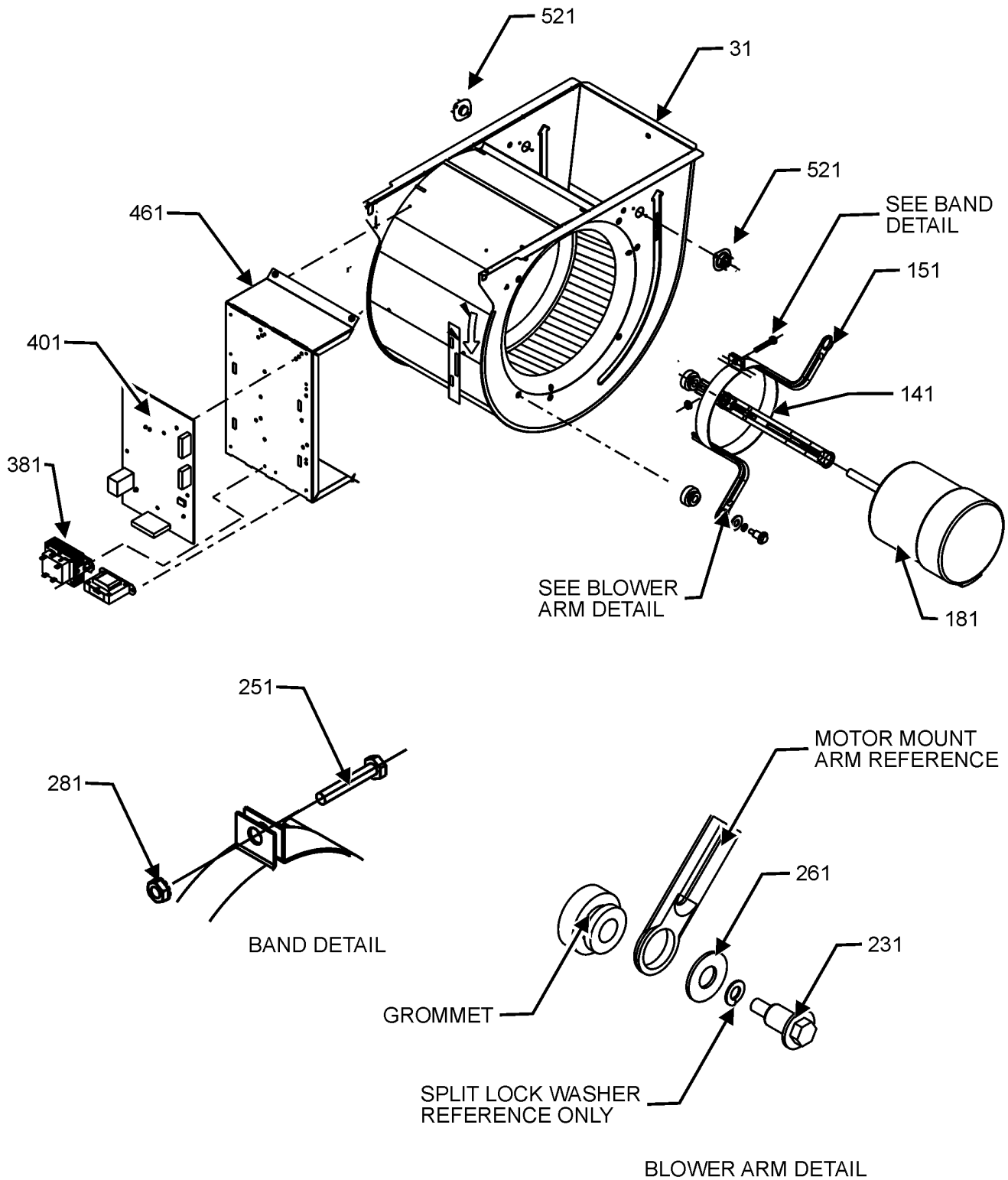
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Image 1:			
11	0270F05402		DRAIN KIT ASSY
21	0270F05402		DRAIN KIT ASSY
111	0154F00024		GASKET (QTY 2)
121	0154F00025		GASKET (QTY 2)
141	0161F00046		DRAIN TRAP
191	0121F00291DG		DOOR, ACCESS 17.5 PNT (M4, M5)
191	0121F00292DG		DOOR, ACCESS 21 PNT (M6, M7, M8)
191	0121F00293DG		DOOR, ACCESS 24.5 PNT (M9)
191	0121F00674DG		PNT, DOOR, ACCESS 14" (M1, M2, M3)
201	0121F00288DG		DOOR, BLOWER 17.5 PNT (M4, M5)
201	0121F00289DG		DOOR, BLOWER 21 PNT (M6, M7, M8)
201	0121F00290DG		DOOR, BLOWER 24.5 PNT (M9)
201	0121F00672DG		PNT, DOOR, BLOWER 14" (M1, M2, M3)
281	B1392139		VIEW PORT BUSHING-BLOWER DOOR (QTY 2)
311	0154F00020		GASKET, DECK (M4, M5)
311	0154F00021		GASKET, DECK (M6, M7, M8)
311	0154F00022		GASKET, DECK (M9)
311	0154F00063		GASKET, DECK (M1, M2, M3)
341	0164F00017		HOSE-ELBOW/TRAP
351	0164F00020		DRAIN HOSE (M1, M2, M3)
351	0164F00006		HOSE, COVER/TRAP (M9)
351	0164F00024		HOSE, COVER/TRAP (M4, M5, M6, M7, M8)
381	0161F00047		COUPLING, HOSE BARBED
451	M0501301		PIPE GROMMET
491	M0570808		BUTTON PLUG (QTY 3)
501	M0570806		BUTTON PLUG
511	M0570807		BUTTON PLUG
521	0161M00027		PLUG, HOLE
601	B1392021		PLASTIC PLUG, 1" (2713-BLK) (QTY 4)
741	B1392104		UNIVERSAL BUSHING UB 875
NS	M0310345		BUTTON PLUG (QTY 2)
NS	0163M00319		HEX NUT-INSERT (QTY 3)
NS	0161F00086		NAMEPLATE, GOODMAN
NS	M0273904		RETAINER-SCREW (QTY 3)
NS	M0209730		SCREW-DECORATIVE (QTY 3)

Expanded Model Nomenclature

M1 - GM9C960303ANAA
M2 - GM9C960403ANAA
M3 - GM9C960603ANAA
M4 - GM9C960603BNAA
M5 - GM9C960803BNAA
M6 - GM9C960804CNAA
M7 - GM9C961004CNAA
M8 - GM9C961005CNAA
M9 - GM9C961205DNAA

Blower Assembly

BLOWER ASSEMBLY



BLOWER ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Blower Assembly

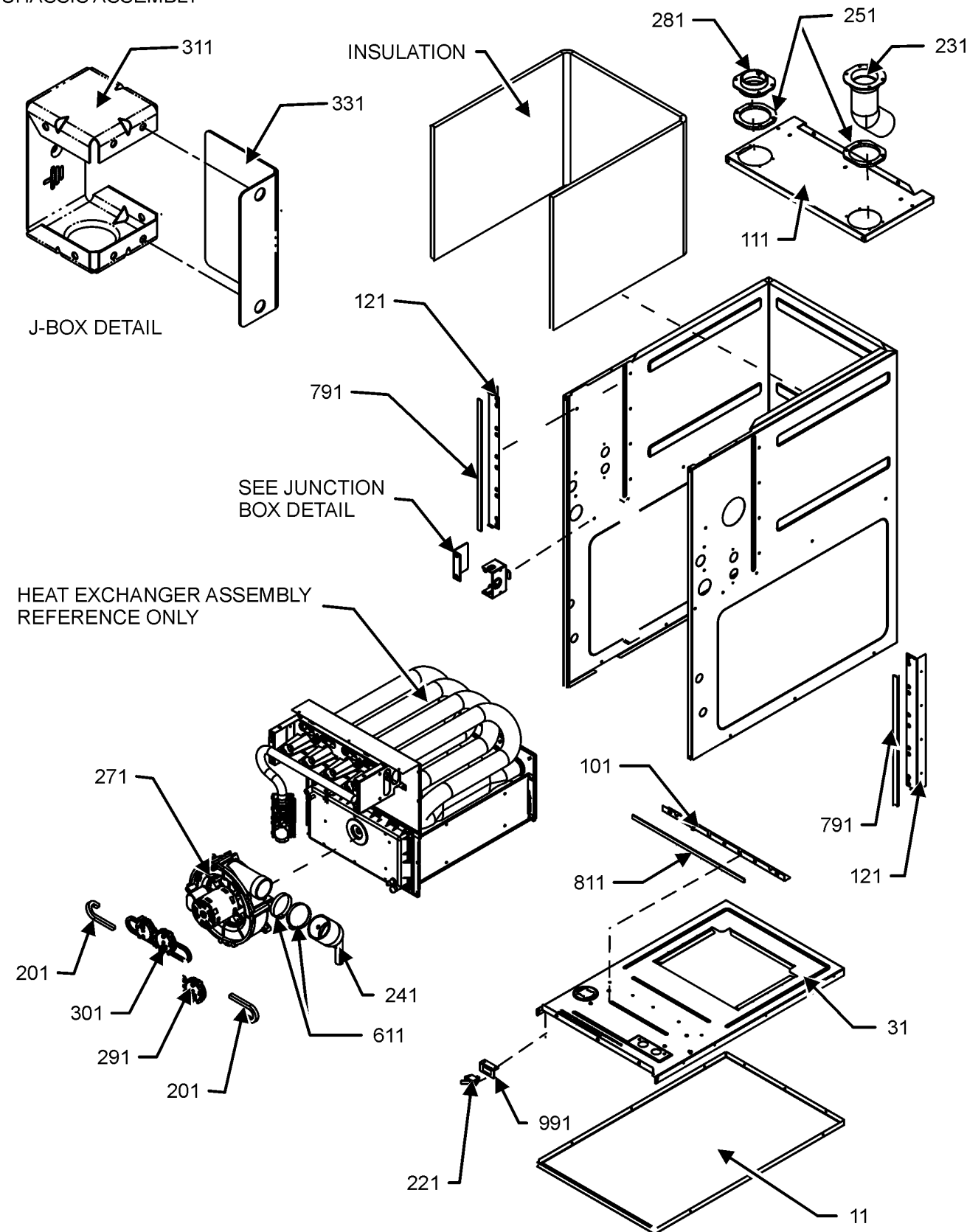
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
31	0271F00159		BLOWER SHELL & WHEEL ASSY (M4, M5)
31	0271F00161		BLOWER SHELL & WHEEL ASSY (M6, M7, M8)
31	0271F00163		BLOWER SHELL & WHEEL ASSY (M9)
31	0271F00322		BLOWER SHELL & WHEEL ASSY (M1, M2, M3)
141	0121M00039		MOUNT BAND, MOTOR (HEAVY DUTY)
151	0163M00538		MOUNT ARM, MOTOR (QTY 3)
181	0131F00232		MOTOR PROGRAMMED (M1)
181	0131F00233		MOTOR PROGRAMMED (M2)
181	0131F00234		MOTOR PROGRAMMED (M3)
181	0131F00235		MOTOR PROGRAMMED (M4)
181	0131F00236		MOTOR PROGRAMMED (M5)
181	0131F00237		MOTOR PROGRAMMED (M6)
181	0131F00238		MOTOR PROGRAMMED (M7)
181	0131F00239		MOTOR PROGRAMMED (M8)
181	0131F00240		MOTOR PROGRAMMED (M9)
231	M0250565		TC SCREW 1.25" (QTY 3)
251	0163M00320		HEX HEAD ALL THREAD TAP BOLT
261	B1392918		WASHER, FLAT 1/4 ID X 1 OD (QTY 3)
281	B1393800		LOCKNUT, NYLON, INSERT 1/4, 20
381	0130M00140		TRANSFORMER 120V TO 24V, 40VA
401	PCBBF164		CIRCUIT BOARD FURNACE
461	0121F00464		MOUNTING PLATE-CONTROLS
521	0130F00038		AUX LIMIT - LT BLUE 120° (QTY 2)
NS	0159F00119		CTM, MOTOR HARNESS
NS	B1392021		PLASTIC PLUG, 1" (2713-BLK) (QTY 4)
NS	0259F00024		WIRE HARNESS-BLOWER

Expanded Model Nomenclature

M1 - GM9C960303ANAA
M2 - GM9C960403ANAA
M3 - GM9C960603ANAA
M4 - GM9C960603BNAA
M5 - GM9C960803BNAA
M6 - GM9C960804CNAA
M7 - GM9C961004CNAA
M8 - GM9C961005CNAA
M9 - GM9C961205DNAA

Chassis Assembly

CHASSIS ASSEMBLY



CHASSIS ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Chassis Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

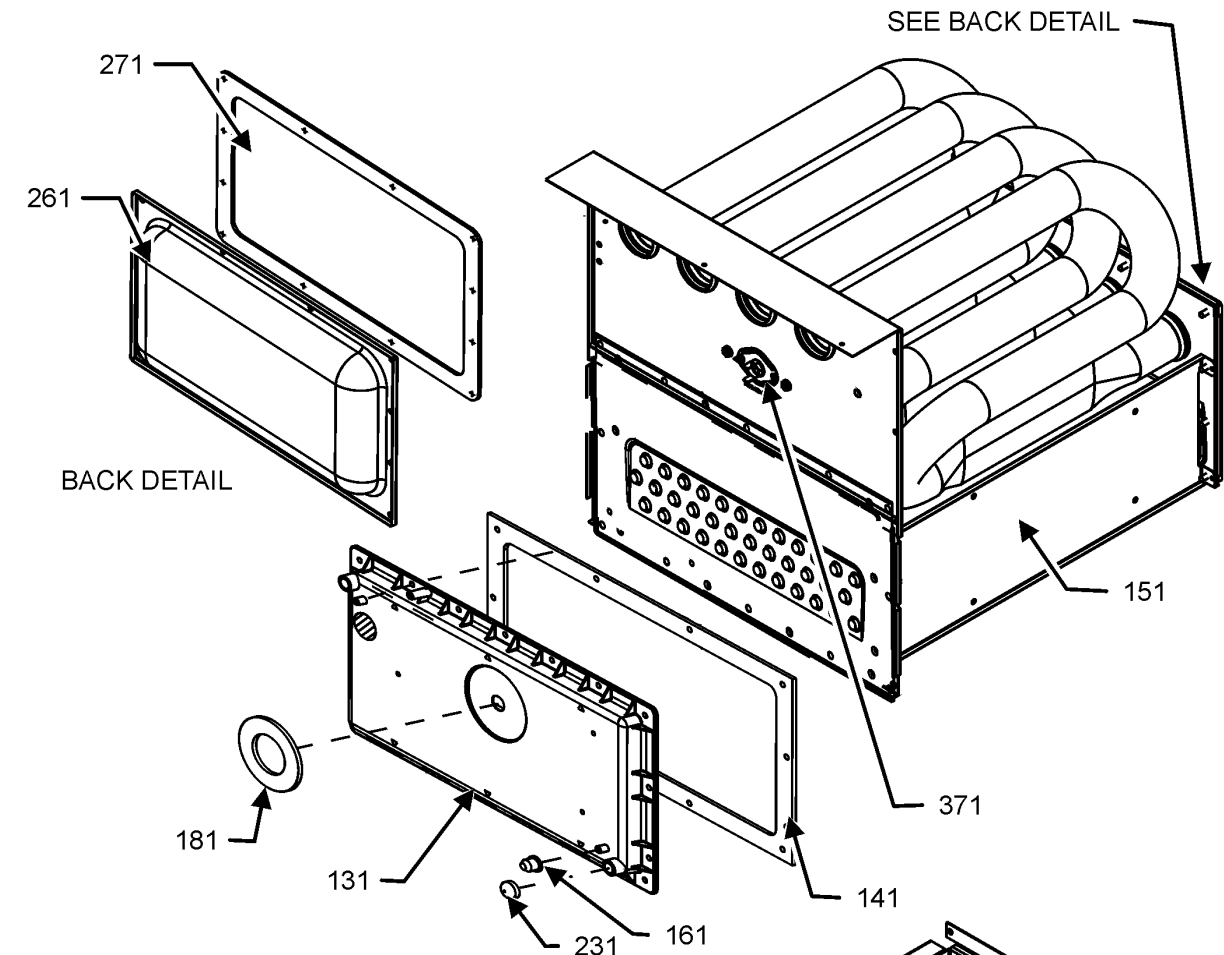
11	0121F00530DG	BASEPAN, 17.5 (M4, M5)
11	0121F00531DG	BASEPAN, 21 PNT (M6, M7, M8)
11	0121F00532DG	BASEPAN, 24.5 PNT (M9)
11	0121F00664DG	BASEPAN, 14 PNT (M1, M2, M3)
31	0121F00663	DECK, BLOWER 14" (M1, M2, M3)
31	0121F00533	DECK-BLOWER 17.5" (M4, M5)
31	0121F00534	DECK-BLOWER 21" (M6, M7, M8)
31	0121F00535	DECK-BLOWER 24.5" (M9)
101	0121F00314	ANGLE, DECK (M4, M5)
101	0121F00315	ANGLE, DECK (M6, M7, M8)
101	0121F00316	ANGLE, DECK (M9)
101	0121F00661	ANGLE, DECK (M1, M2, M3)
111	0121F00279DG	PAINTED TOP, FURNACE 17.5 (M4, M5)
111	0121F00280DG	PAINTED TOP, FURNACE 21 (M6, M7, M8)
111	0121F00281DG	PAINTED TOP, FURNACE 24.5 (M9)
111	0121F00662DG	PNT, FURNACE TOP 14" (M1, M2, M3)
121	0121F00313	ANGLE, SIDE (QTY 2)
201	0164M00121	HOSE- PRESSURE SW 16" (M1, M2, M3)
201	0164M00115	HOSE- PRESSURE SW 6" (M4, M5, M6, M7, M8,
201	0164M00116	HOSE- PRESSURE SW 7" (M1, M2, M3)
221	0130M00243	INTERLOCK SWITCH
231	0164F00002	FLUE PIPE W/BEND
241	0164F00025	ELBOW-FLUE,UPFLOW
251	0154F00041	FRESH AIR GASKET
271	0171M00007	ID BLOWER, 2 Stg (M1, M2, M3)
271	0171M00002	MOTOR-ID, BLOWER (M4, M5, M6, M7, M8, M9)
281	0161F00037	COUPLING
291	0130F00429	PRESSURE SWITCH (M4, M5, M6, M7, M8, M9)
291	0130F00646	PRESSURE SWITCH (M3)
291	0130F00647	PRESSURE SWITCH (M1, M2)
301	0130F00643	PRESSURE SWITCH (M1)
301	0130F00644	PRESSURE SWITCH (M2)
301	0130F00645	PRESSURE SWITCH (M3)
301	0130F00434	SWITCH, PRESSURE (M7)
301	0130F00435	SWITCH, PRESSURE (M4)
301	0130F00436	SWITCH, PRESSURE (M5)
301	0130F00443	SWITCH, PRESSURE (M6, M8)
301	0130F00445	SWITCH, PRESSURE (M9)
311	0161F00042	JUNCTION BOX PLA
331	0161F00043	JUNCTION BOX LID
611	0163M00460	CLAMP-HOSE (QTY 2)
791	0154F00015	GASKET (QTY 2)
811	0154F00014	GASKET (M4, M5)
811	0154F00016	GASKET (M6, M7, M8)
811	0154F00064	GASKET (M1, M2, M3)
811	20194607	GASKET (M9)
991	0121F00389	BRACKET, DOOR SWITCH
NS	0160F00025	INSULATION, HT EXCHANGER (M1, M2, M3)
NS	0160F00015	INSULATION, HT EXCHANGER 17.5" (M4, M5)
NS	0160F00016	INSULATION, HT EXCHANGER 21" (M6, M7, M8)
NS	0160F00017	INSULATION, HT EXCHANGER 24.5" (M9)
NS	M0326804	PLUG-TUBE
NS	0159F00140	WIRE HARNESS (M1, M2)
NS	0159F00141	WIRE HARNESS (M3, M4, M5, M6, M7, M8, M9)

Expanded Model Nomenclature

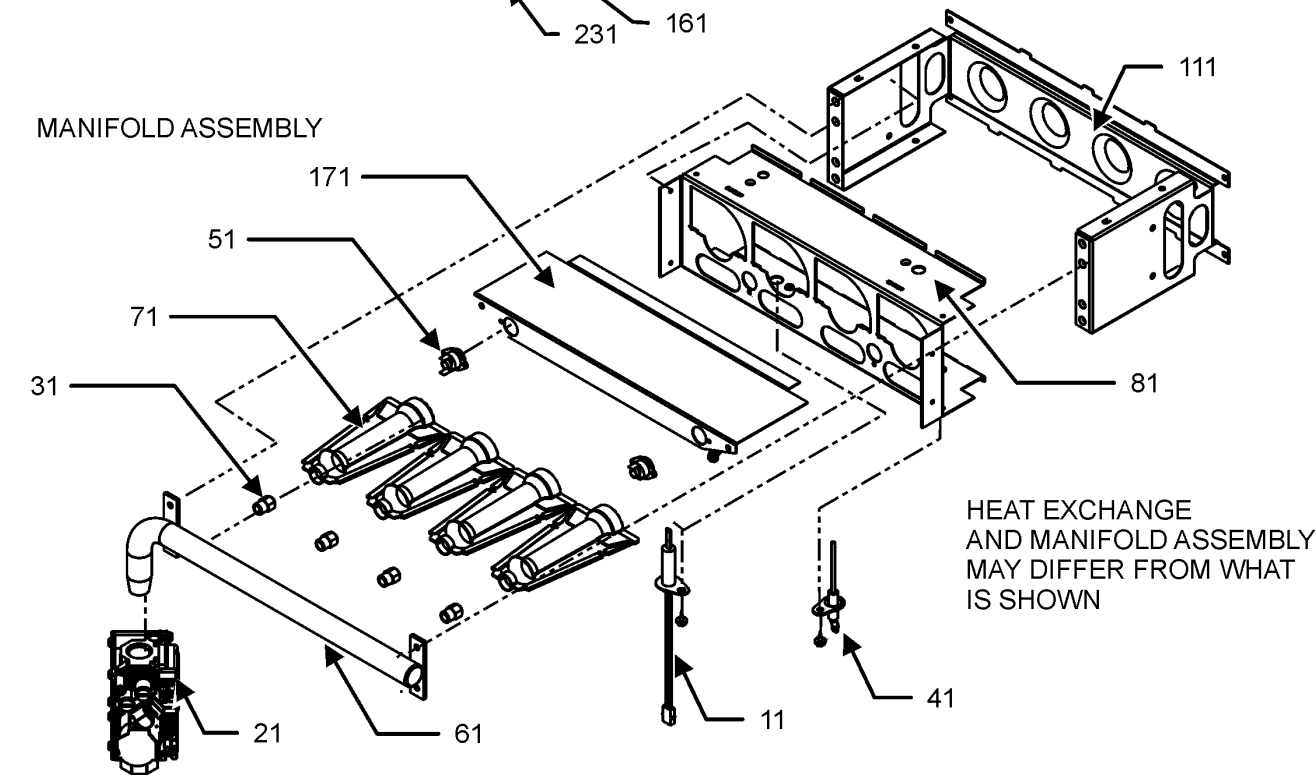
M1 - GM9C960303ANAA
M2 - GM9C960403ANAA
M3 - GM9C960603ANAA
M4 - GM9C960603BNAA
M5 - GM9C960803BNAA
M6 - GM9C960804CNAA
M7 - GM9C961004CNAA
M8 - GM9C961005CNAA
M9 - GM9C961205DNAA

Heat Exchange and Manifold Assembly

HEAT EXCHANGE ASSEMBLY



MANIFOLD ASSEMBLY



Heat Exchange and Manifold Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:		
Image 1:		Image 1:			
11	0130F00008	IGNITOR-SINI 17 SEC	171	0121F00758	SHIELD, BURNER (M3)
21	0151M00027	GAS VALVE	181	0154F00043	GASKET ID BLOWER
31	0163F00019	ORIFICE (M1)	231	A1781105	CAP-VINYL .500
31	10716005	ORIFICE (M2, M3, M4, M5, M6, M7, M8, M9)	261	0121F00317	COVER, REAR (M4, M5)
41	0130F00010	FLAME SENSOR	261	0121F00318	COVER, REAR (M6, M7, M8)
51	0130F00123	MANUAL RESET LIMIT - ROS (M5)	261	0121F00319	COVER, REAR (M9)
51	10123517	MANUAL RESET LIMIT - ROS (M3)	261	0121F00670	COVER, REAR (M1, M2, M3)
51	10123527	MANUAL RESET LIMIT - ROS (M9)	271	0154F00058	GASKET REAR CVR (M1, M2, M3)
51	10123534	MANUAL RESET LIMIT - ROS (M7, M8)	271	0154F00037	GASKET, REAR CVR (M4, M5)
51	10123538	MANUAL RESET LIMIT - ROS (M1, M2)	271	0154F00038	GASKET, REAR CVR (M6, M7, M8)
51	10123539	MANUAL RESET LIMIT - ROS (M4, M6)	271	0154F00039	GASKET, REAR CVR (M9)
61	0163F00007	MANIFOLD (M1, M2)	371	20162904	*PRIMARY LIMIT-TEMPERATURE CONTROL (M5, M6)
61	0163F00008	MANIFOLD (M4)			
61	0163F00009	MANIFOLD (M6)	371	20162903	PRIMARY LIMIT - BLUE (M1, M2, M3, M8)
61	0163F00010	MANIFOLD (M7, M8)	371	0130F00036	PRIMARY LIMIT - PINK 180° (M9)
61	0163F00011	MANIFOLD (M9)	371	20162906	PRIMARY LIMIT - WHITE (M4, M7)
61	0163F00014	MANIFOLD (M5)	NS	0121F00582	INSULATION, RETAINER (M1, M2, M3)
61	0163F00037	MANIFOLD, 3B (M3)	NS	0121F00583	INSULATION, RETAINER (M4, M5)
71	0163F00017	BECKETT BURNER (QTY 2)	NS	0121F00584	INSULATION, RETAINER (M6, M7, M8)
81	0121F00456	BRACKET-BURNER 2 (M1, M2)	NS	0121F00585	INSULATION, RETAINER (M9)
81	0121F00455	BRACKET-BURNER 3 (M3, M4)	NS	0121F00439	PRIMARY LIMIT-HEAT SHIELD
81	0121F00454	BRACKET-BURNER 4 (M5, M6)	NS	0121F00355	SHIELD, COIL (QTY 2)
81	0121F00453	BRACKET-BURNER 5 (M7, M8)	Expanded Model Nomenclature		
81	0121F00451	BRACKET-BURNER 6 (M9)	<div>M1 - GM9C960303ANAA M2 - GM9C960403ANAA M3 - GM9C960603ANAA M4 - GM9C960603BNAA M5 - GM9C960803BNAA M6 - GM9C960804CNAA M7 - GM9C961004CNAA M8 - GM9C961005CNAA M9 - GM9C961205DNAA</div>		
111	0121F00469	ORIFICE BRACKET-BURNER 2 (M1, M2)			
111	0121F00468	ORIFICE BRACKET-BURNER 3 (M3, M4)			
111	0121F00467	ORIFICE BRACKET-BURNER 4 (M5, M6)			
111	0121F00466	ORIFICE BRACKET-BURNER 5 (M7, M8)			
111	0121F00465	ORIFICE BRACKET-BURNER 6 (M9)			
131	0161F00072	COVER FRONT (M8)			
131	0161F00024	COVER, FRONT (M5)			
131	0161F00030	COVER, FRONT (M6)			
131	0161F00054	COVER, FRONT (M4)			
131	0161F00063	COVER, FRONT (M9)			
131	0161F00081	COVER, FRONT (M1)			
131	0161F00082	COVER, FRONT (M2)			
131	0161F00083	COVER, FRONT (M3)			
131	0161F00065	COVER,FRONT (M7)			
141	0154F00026	GASKET FRONT COVER (M4, M5)			
141	0154F00030	GASKET FRONT COVER (M6, M7, M8)			
141	0154F00034	GASKET FRONT COVER (M9)			
141	0154F00062	GASKET FRONT COVER (M1, M2, M3)			
151	0257F00442	ASSY, HEAT EXCHANGER (M2)			
151	0257F00444	ASSY, HEAT EXCHANGER (M1)			
151	0257F00445	ASSY, HEAT EXCHANGER (M3)			
151	0257F00240	HEAT EXCHANGER ASSY (M6)			
151	0257F00333	HEAT EXCHANGER ASSY (M9)			
151	0257F00374	HEAT EXCHANGER ASSY (M4)			
151	0257F00379	HEAT EXCHANGER ASSY (M5)			
151	0257F00393	HEAT EXCHANGER ASSY (M7)			
151	0257F00396	HEAT EXCHANGER ASSY (M8)			
161	M0326804	TUBE PLUG			
171	0121F00540	SHEILD, BURNER (M4)			
171	0121F00541	SHEILD, BURNER (M5, M6)			
171	0121F00542	SHEILD, BURNER (M7, M8)			
171	0121F00543	SHEILD, BURNER (M9)			
171	0121F00755	SHIELD, BURNER (M1, M2)			