REPAIR PARTS

AMVC 96% Two Stage Variable Speed UF Furnace

AMVC960403BNBA
AMVC960403BNBB
AMVC960403BNBC
AMVC960603BNBA
AMVC960603BNBB
AMVC960603BNBC
AMVC960803BNBA
AMVC960803BNBB
AMVC960803BNBC
AMVC960804CNBA
AMVC960804CNBB
AMVC960804CNBC
AMVC961005CNBA
AMVC961005CNBB
AMVC961005DNBA
AMVC961005DNBB
AMVC961205DNBA
AMVC961205DNBB



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This manual is to be used by qualified technicians only.

This manual replaces RP-A2316A.

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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 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 Company, L.P. also recommends contacting an authorized technician and using authorized factory parts.

Goodman 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 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 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 (M1, M2, M3, M7, M8, M9, M10, M11, M12)
0130F00038	AUX LIMIT - LT BLUE 120º (QTY 2)
SHARED DATA	Available thru CoolCloud HVAC app.
0163F00017	BECKETT BURNER (QTY 2)
0271F00181	BLOWER HSG ASSY (M1, M2, M3)
0271F00159	BLOWER SHELL & WHEEL ASSY (M4, M5, M6, M7, M8, M9)
0271F00163	BLOWER SHELL & WHEEL ASSY (M15, M16, M17, M18)
0271F00161	BLOWER SHELL & WHEEL ASSY (M10, M11, M12, M13, M14)
0130F00010	FLAME SENSOR
0151M00027	GAS VALVE
0257F00375	HEAT EXCHANGER ASSY (M4, M5, M6)
0257F00290	HEAT EXCHANGER ASSY. (M10, M11, M12)
0257F00441	HEAT EXCHANGER ASSY. (M15, M16)
0257F00287	HEAT EXCHANGER ASSY. (M1, M2, M3)
0257F00291	HEAT EXCHANGER ASSY. (M13, M14)
0257F00292	HEAT EXCHANGER ASSY. (M17, M18)
0257F00289	HEAT EXCHANGER ASSY. (M7, M8, M9)
0130F00008	IGNITOR-SINI 17 SEC
0130M00141	INDUCTOR, 5.9 AMPS (M10, M11, M12, M13, M14, M15, M16, M17, M18)
0130M00243	INTERLOCK SWITCH
0130F00123	MANUAL RESET LIMIT (M7, M8, M9, M10, M11, M12)
10123527	MANUAL RESET LIMIT (M15, M16, M17, M18)
10123534	MANUAL RESET LIMIT 220ºF (M13, M14)
10123539	MANUAL RESET LIMIT-ORANGE (M1, M2, M3, M4, M5, M6)
0131M00272	MOTOR, 1 HP, SERIAL ECM (M13, M14, M15, M16, M17, M18)
0131M01002	MOTOR, 1/2 HP (M3, M6, M9)
0131M00270	MOTOR, 1/2 HP, SERIAL ECM (M1, M2, M4, M5, M7, M8)
0131M01003	MOTOR, 3/4 HP (M12)
0131M00271	MOTOR, 3/4 HP, SERIAL ECM (M10, M11)
0171M00002	MOTOR-ID, BLOWER
PCBKF109	PCB, CONTROL BOARD (M2, M3, M5, M6, M8, M9, M11, M12, M14, M16, M18)
PCBKF107	PCB, CONTROL BOARD (M1, M4, M7, M10, M13, M15, M17)
0130F00434	PRESSURE SWITCH (M13, M14)
0130F00429	PRESSURE SWITCH (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)
0130F00433	PRESSURE SWITCH (M1, M2, M3, M4, M5, M6)
0130F00436	PRESSURE SWITCH (M7, M8, M9, M10, M11, M12)
0130F00443	PRESSURE SWITCH (M15, M16, M17, M18)
0130F00485	PRESSURE SWITCH (M1, M2, M3)
0130F00036	PRIMARY LIMIT - PINK 180º (M15, M16, M17, M18)
20162906	PRIMARY LIMIT - WHITE (M4, M5, M6, M13, M14)
0130M00140	TRANSFORMER 120V TO 24V, 40VA
0150M00043	WHEEL, BLOWER(10X8) (M1, M2, M3)

Expanded Model Nomenclature

M1 - AMVC960403BNBA
M2 - AMVC960403BNBB
M3 - AMVC960403BNBC
M4 - AMVC960603BNBA
M5 - AMVC960603BNBB
M6 - AMVC960603BNBC
M7 - AMVC960803BNBA
M8 - AMVC960803BNBB
M9 - AMVC960803BNBC
M10 - AMVC960804CNBA
M11 - AMVC960804CNBB
M12 - AMVC960804CNBC
M13 - AMVC961005CNBA
M14 - AMVC961005CNBB
M15 - AMVC961005DNBA
M16 - AMVC961005DNBB
M17 - AMVC961205DNBA
M18 - AMVC961205DNBB

SPECIAL PARTS

0161M00032	NAMEPLATE, AMANA

Cabinet Assembly

IMAGE 1

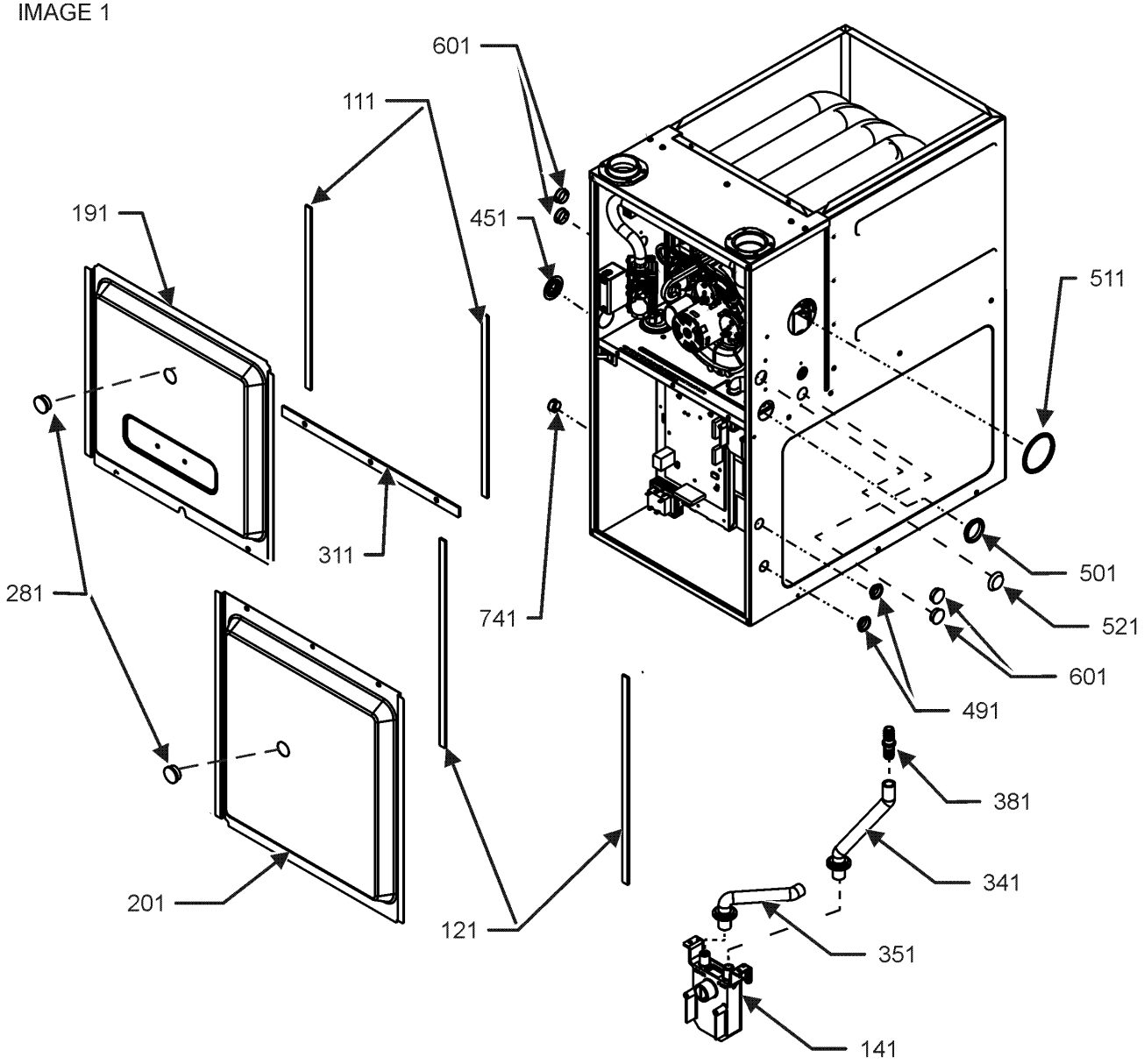
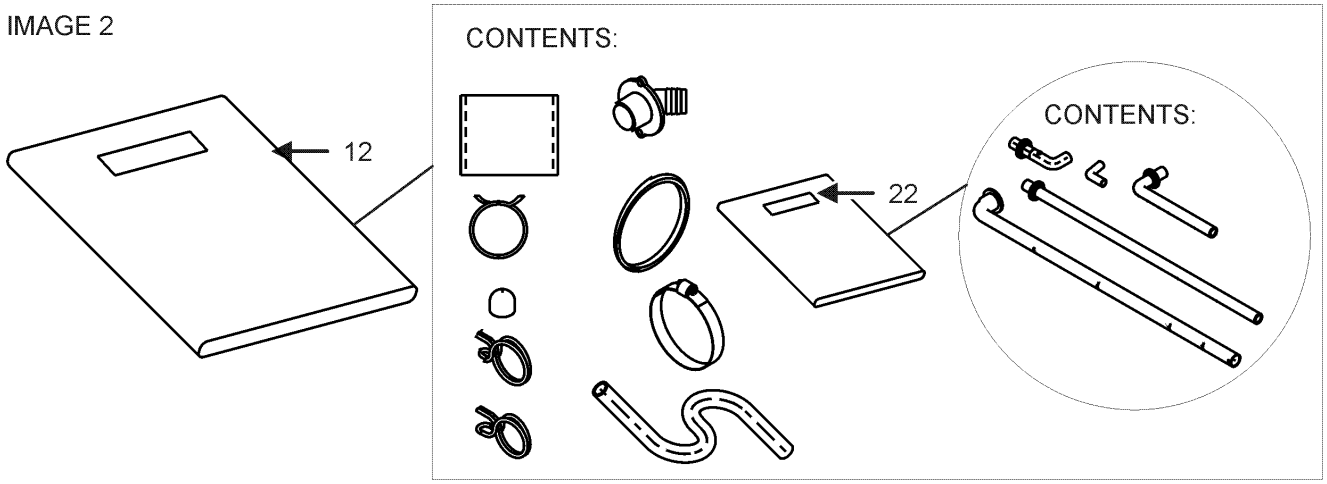


IMAGE 2



Cabinet Assembly

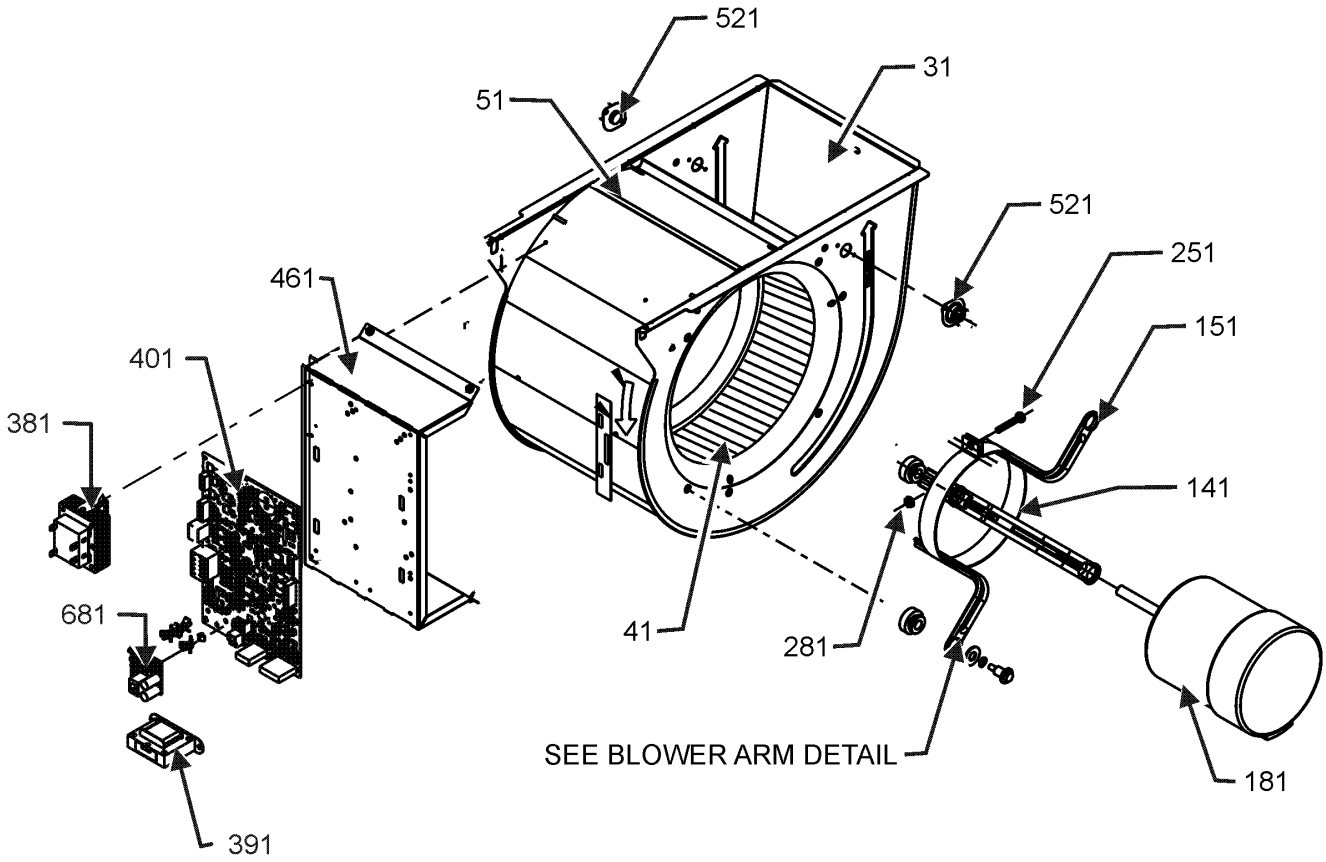
Ref. No:	Part No:	Description:
Image 1:		
111	0154F00024	GASKET (QTY 2)
121	0154F00025	GASKET (QTY 2)
141	0161F00046	DRAIN TRAP
191	0121F00338LG	DOOR ACCESS 21" PNT (M10, M11, M12, M13, M14)
191	0121F00337LG	DOOR, ACCESS 17.5" PNT (M1, M2, M3, M4, M5, M6, M7, M8, M9)
191	0121F00339LG	DOOR, ACCESS 24.5" PNT (M15, M16, M17, M18)
201	0121F00340LG	DOOR, BLOWER 17.5" PNT (M1, M2, M3, M4, M5, M6, M7, M8, M9)
201	0121F00341LG	DOOR, BLOWER 21" PNT (M10, M11, M12, M13, M14)
201	0121F00342LG	DOOR, BLOWER 24.5" PNT (M15, M16, M17, M18)
281	B1392139	VIEW PORT BUSHING-BLOWER DOOR (QTY 2)
311	0154F00020	GASKET, DECK (M1, M2, M3, M4, M5, M6, M7, M8, M9)
311	0154F00021	GASKET, DECK (M10, M11, M12, M13, M14)
311	0154F00022	GASKET, DECK (M15, M16, M17, M18)
341	0164F00017	HOSE-ELBOW/TRAP
351	0164F00006	HOSE, COVER/TRAP (M15, M16, M17, M18)
351	0164F00024	HOSE, COVER/TRAP (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14)
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	0161M00032	NAMEPLATE, AMANA
NS	M0273904	RETAINER-SCREW (QTY 3)
NS	M0209730	SCREW-DECORATIVE (QTY 3)
Image 2:		
12	0270F05248	DRAIN KIT ASSY
22	0270F05248	DRAIN KIT ASSY

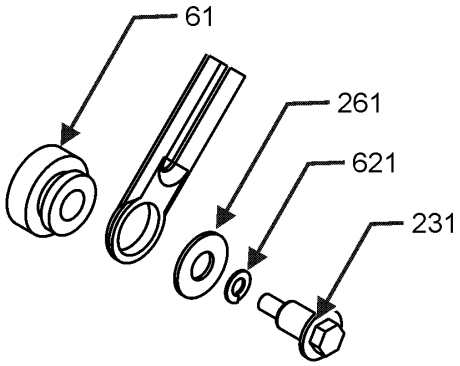
Expanded Model Nomenclature

M1 - AMVC960403BNBA
M2 - AMVC960403BNBB
M3 - AMVC960403BNBC
M4 - AMVC960603BNBA
M5 - AMVC960603BNBB
M6 - AMVC960603BNBC
M7 - AMVC960803BNBA
M8 - AMVC960803BNBB
M9 - AMVC960803BNBC
M10 - AMVC960804CNBA
M11 - AMVC960804CNBB
M12 - AMVC960804CNBC
M13 - AMVC961005CNBA
M14 - AMVC961005CNBB
M15 - AMVC961005DNBA
M16 - AMVC961005DNBB
M17 - AMVC961205DNBA
M18 - AMVC961205DNBB

Blower Assembly

*If end bells are needed please order the following:
0131M00182 - ½ HP
0131M00183 - ¾ HP
0131M00184 - 1 HP





BLOWER ARM DETAIL

Blower Assembly

Ref. No:	Part No:	Description:
Image 1:		
31	0271F00181	BLOWER HSG ASSY (M1, M2, M3)
31	0271F00159	BLOWER SHELL & WHEEL ASSY (M4, M5, M6, M7, M8, M9)
31	0271F00161	BLOWER SHELL & WHEEL ASSY (M10, M11, M12, M13, M14)
31	0271F00163	BLOWER SHELL & WHEEL ASSY (M15, M16, M17, M18)
41	0150M00043	WHEEL, BLOWER(10X8) (M1, M2, M3)
51	764740	BLOWER BLOCK-OFF 10 X 8 (M1, M2, M3)
61	A4002702	BLOWER MOTOR GROMMET (M10, M11, M12, M13, M14, M15, M16, M17, M18)
141	0121M00038	MOTOR MOUNT BAND (M1, M2, M3, M4, M5, M6, M7, M8, M9)
141	10441601	MOTOR MOUNT BAND (M10, M11, M12, M13, M14, M15, M16, M17, M18)
151	10441501	MOTOR MOUNT ARM (M10, M11, M12, M13, M14, M15, M16, M17, M18)
151	B1376857	MOTOR MOUNT ARM (M1, M2, M3, M4, M5, M6, M7, M8, M9)
181	0131M00272	MOTOR, 1 HP, SERIAL ECM (M13, M14, M15, M16, M17, M18)
181	0131M01002	MOTOR, 1/2 HP (M3, M6, M9)
181	0131M00270	MOTOR, 1/2 HP, SERIAL ECM (M1, M2, M4, M5, M7, M8)
181	0131M01003	MOTOR, 3/4 HP (M12)
181	0131M00271	MOTOR, 3/4 HP, SERIAL ECM (M10, M11)
231	0163F00028	SCREW (M10, M11, M12, M13, M14, M15, M16, M17, M18)
231	M0250565	TC SCREW 1.25" (M1, M2, M3, M4, M5, M6, M7, M8, M9)
251	M0267144	MACHINE SCREW (M10, M11, M13, M14, M15, M16, M17, M18)
251	B1393323	MACHINE SCREW HWH 1/4-20 X 1-1/2 BZ (M1, M2, M3, M4, M5, M6, M7, M8, M9, M12)
261	B1392918	WASHER, FLAT 1/4 ID X 1 OD (M1, M2, M3, M4, M5, M6, M7, M8, M9)
261	M0274008	WASHER-FLAT (M10, M11, M12, M13, M14, M15, M16, M17, M18)
281	M0282015	KEPS NUT (M10, M11, M13, M14, M15, M16, M17, M18)
281	B1393800	LOCKNUT, NYLON, INSERT 1/4, 20 (M1, M2, M3, M4, M5, M6, M7, M8, M9, M12)
381	0130M00140	TRANSFORMER 120V TO 24V, 40VA
391	0130M00141	INDUCTOR, 5.9 AMPS (M10, M11, M12, M13, M14, M15, M16, M17, M18)
401	PCBKF107	PCB, CONTROL BOARD (M1, M4, M7, M10, M13, M15, M17)
401	PCBKF109	PCB, CONTROL BOARD (M2, M3, M5, M6, M8, M9, M11, M12, M14, M16, M18)
461	0121F00464	MOUNTING PLATE-CONTROLS
521	0130F00038	AUX LIMIT - LT BLUE 120º (QTY 2)

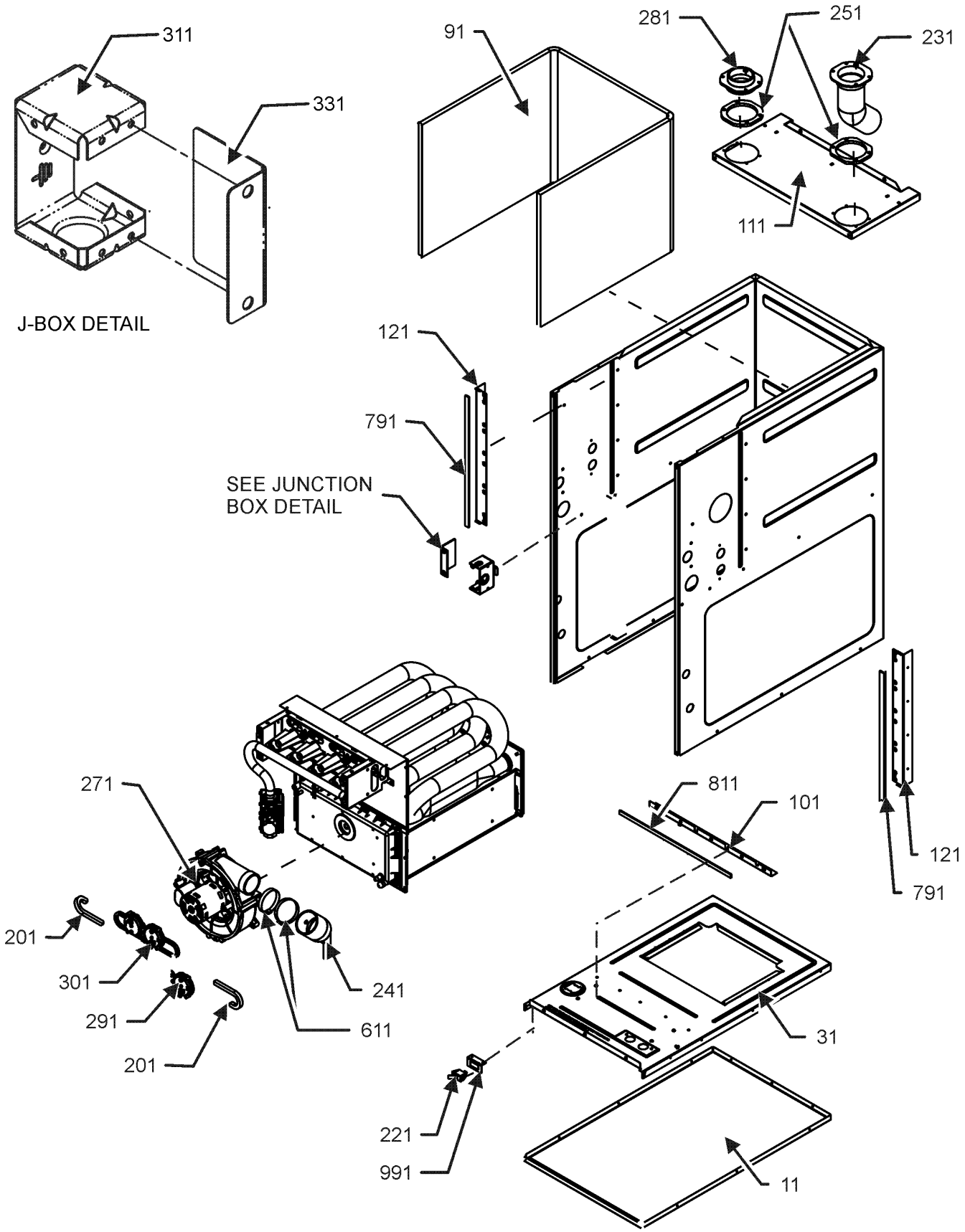
Ref. No:	Part No:	Description:
Image 1:		
621	B1392820	WASHER, SPLIT LOCK 1/4 BZ (M10, M11, M12, M13, M14, M15, M16, M17, M18)
681	PCBCM100	PCB CONTROL (M1, M4, M7, M10, M13, M15, M17)
NS	SHARED DATA	Available thru CoolCloud HVAC app.
NS	0159F00083	CABLE, RJ12 (M1, M4, M7, M10, M13, M15, M17)
NS	0259F00040	CONTROL HARNESS
NS	B1392021	PLASTIC PLUG, 1" (2713-BLK) (QTY 4)
NS	0259F00041	POWER HARNESS HIGH VOLTAGE
NS	0259F00024	WIRE HARNESS-BLOWER

Expanded Model Nomenclature

M1 - AMVC960403BNBA
M2 - AMVC960403BNBB
M3 - AMVC960403BNBC
M4 - AMVC960603BNBA
M5 - AMVC960603BNBB
M6 - AMVC960603BNBC
M7 - AMVC960803BNBA
M8 - AMVC960803BNBB
M9 - AMVC960803BNBC
M10 - AMVC960804CNBA
M11 - AMVC960804CNBB
M12 - AMVC960804CNBC
M13 - AMVC961005CNBA
M14 - AMVC961005CNBB
M15 - AMVC961005DNBA
M16 - AMVC961005DNBB
M17 - AMVC961205DNBA
M18 - AMVC961205DNBB

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

Chassis Assembly



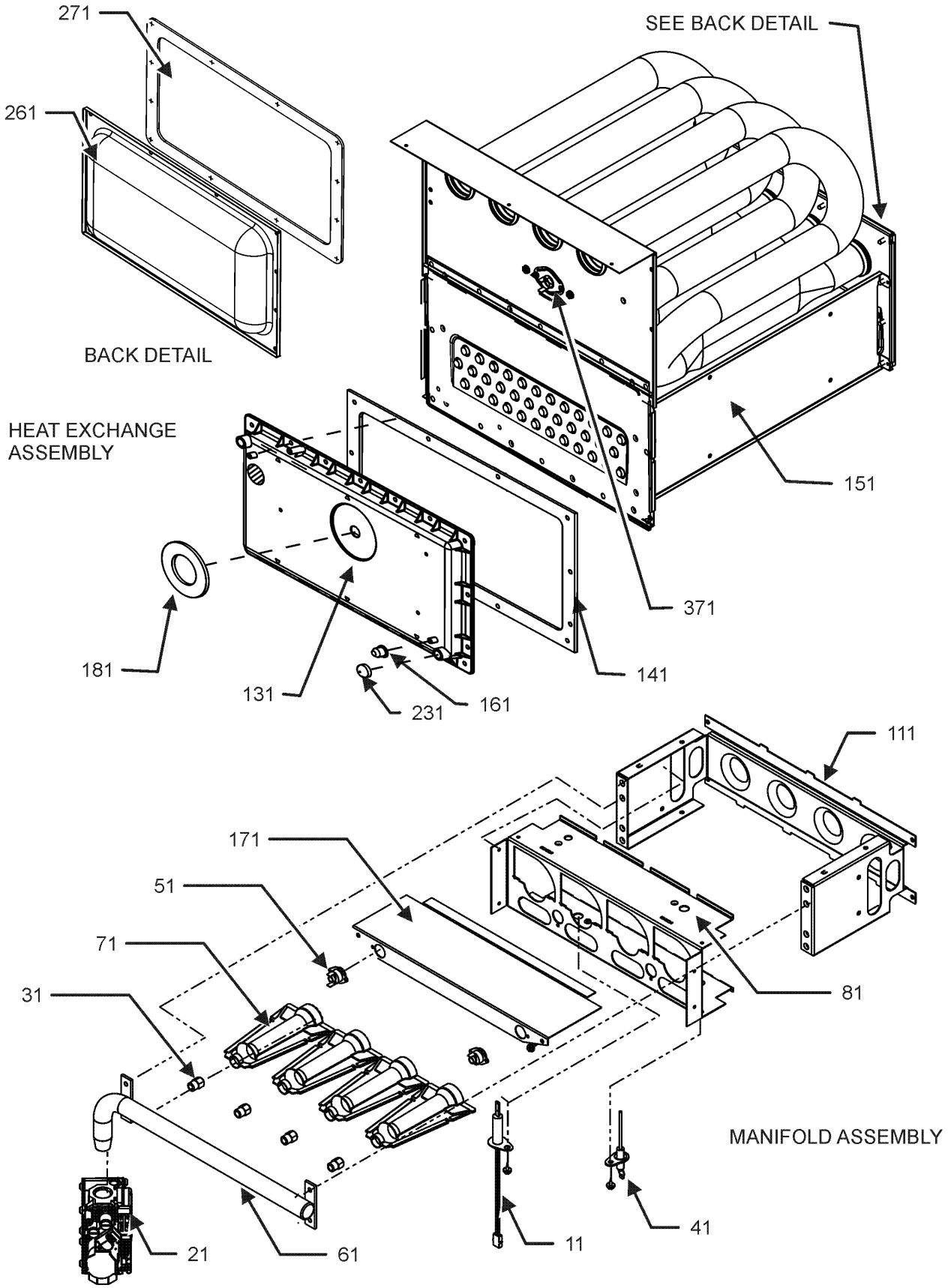
Chassis Assembly

Ref. No:	Part No:	Description:
Image 1:		
11	0121F00530DG	BASEPAN, 17.5 PNT (M1, M2, M3, M4, M5, M6, M7, M8, M9)
11	0121F00531DG	BASEPAN, 21 PNT (M10, M11, M12, M13, M14)
11	0121F00532DG	BASEPAN, 24.5 PNT (M15, M16, M17, M18)
31	0121F00533	DECK-BLOWER 17.5" (M1, M2, M3, M4, M5, M6, M7, M8, M9)
31	0121F00534	DECK-BLOWER 21" (M10, M11, M12, M13, M14)
31	0121F00535	DECK-BLOWER 24.5" (M15, M16, M17, M18)
91	0160F00015	INSULATION, HT EXCHANGER 17.5" (M1, M2, M3, M4, M5, M6, M7, M8, M9)
91	0160F00016	INSULATION, HT EXCHANGER 21" (M10, M11, M12, M13, M14)
91	0160F00017	INSULATION, HT EXCHANGER 24.5" (M15, M16, M17, M18)
101	0121F00314	ANGLE, DECK (M1, M2, M3, M4, M5, M6, M7, M8, M9)
101	0121F00315	ANGLE, DECK (M10, M11, M12, M13, M14)
101	0121F00316	ANGLE, DECK (M15, M16, M17, M18)
111	0121F00279DG	PAINTED TOP, FURNACE 17.5 (M1, M2, M3, M4, M5, M6, M7, M8, M9)
111	0121F00280DG	PAINTED TOP, FURNACE 21 (M10, M11, M12, M13, M14)
111	0121F00281DG	PAINTED TOP, FURNACE 24.5 (M15, M16, M17, M18)
121	0121F00313	ANGLE, SIDE (QTY 2)
201	0164M00115	HOSE- PRESSURE SW 6" (QTY 2)
221	0130M00243	INTERLOCK SWITCH
231	0164F00002	FLUE PIPE W/BEND
241	0164F00025	ELBOW-FLUE,UPFLOW
251	0154F00041	FRESH AIR GASKET (QTY 2)
271	0171M00002	MOTOR-ID, BLOWER
281	0161F00037	COUPLING
291	0130F00429	PRESSURE SWITCH (M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)
291	0130F00485	PRESSURE SWITCH (M1, M2, M3)
301	0130F00433	PRESSURE SWITCH (M1, M2, M3, M4, M5, M6)
301	0130F00434	PRESSURE SWITCH (M13, M14)
301	0130F00436	PRESSURE SWITCH (M7, M8, M9, M10, M11, M12)
301	0130F00443	PRESSURE SWITCH (M15, M16, M17, M18)
311	0161F00042	JUNCTION BOX PLA
331	0161F00043	JUNCTION BOX LID
611	0163M00460	CLAMP HOSE (QTY 2)
791	0154F00015	GASKET (QTY 2)
811	0154F00014	GASKET (M1, M2, M3, M4, M5, M6, M7, M8, M9)
811	0154F00016	GASKET (M10, M11, M12, M13, M14)
811	20194607	GASKET (M15, M16, M17, M18)
991	0121F00389	BRACKET, DOOR SWITCH
NS	M0326804	PLUG-TUBE

Expanded Model Nomenclature

M1 - AMVC960403BNBA
M2 - AMVC960403BNBB
M3 - AMVC960403BNBC
M4 - AMVC960603BNBA
M5 - AMVC960603BNBB
M6 - AMVC960603BNBC
M7 - AMVC960803BNBA
M8 - AMVC960803BNBB
M9 - AMVC960803BNBC
M10 - AMVC960804CNBA
M11 - AMVC960804CNBB
M12 - AMVC960804CNBC
M13 - AMVC961005CNBA
M14 - AMVC961005CNBB
M15 - AMVC961005DNBA
M16 - AMVC961005DNBB
M17 - AMVC961205DNBA
M18 - AMVC961205DNBB

Heat Exchange Assembly



Heat Exchange Assembly

Ref. No:	Part No:	Description:
Image 1:		
11	0130F00008	IGNITOR-SINI 17 SEC
21	0151M00027	GAS VALVE
31	10716005	ORIFICE (QTY 2)
41	0130F00010	FLAME SENSOR
51	0130F00123	MANUAL RESET LIMIT (M7, M8, M9, M10, M11,
51	10123527	MANUAL RESET LIMIT (M15, M16, M17, M18)
51	10123534	MANUAL RESET LIMIT 220ºF (M13, M14)
51	10123539	MANUAL RESET LIMIT-ORANGE (M1, M2, M3, M4, M5, M6)
61	0163F00007	MANIFOLD (M1, M2, M3)
61	0163F00008	MANIFOLD (M4, M5, M6)
61	0163F00009	MANIFOLD (M10, M11, M12)
61	0163F00010	MANIFOLD (M13, M14, M15, M16)
61	0163F00011	MANIFOLD (M17, M18)
61	0163F00014	MANIFOLD (M7, M8, M9)
71	0163F00017	BECKETT BURNER (QTY 2)
81	0121F00456	BRACKET-BURNER 2 (M1, M2, M3)
81	0121F00455	BRACKET-BURNER 3 (M4, M5, M6)
81	0121F00454	BRACKET-BURNER 4 (M7, M8, M9, M10, M11, M12)
81	0121F00453	BRACKET-BURNER 5 (M13, M14, M15, M16)
81	0121F00451	BRACKET-BURNER 6 (M17, M18)
111	0121F00469	ORIFICE BRACKET-BURNER 2 (M1, M2, M3)
111	0121F00468	ORIFICE BRACKET-BURNER 3 (M4, M5, M6)
111	0121F00467	ORIFICE BRACKET-BURNER 4 (M7, M8, M9, M10, M11, M12)
111	0121F00466	ORIFICE BRACKET-BURNER 5 (M13, M14, M15, M16)
111	0121F00465	ORIFICE BRACKET-BURNER 6 (M17, M18)
131	0161F00022	COVER, FRONT (M7, M8, M9)
131	0161F00026	COVER, FRONT (M13, M14)
131	0161F00030	COVER, FRONT (M10, M11, M12)
131	0161F00053	COVER, FRONT (M1, M2, M3)
131	0161F00054	COVER, FRONT (M4, M5, M6)
131	0161F00063	COVER, FRONT (M17, M18)
131	0161F00084	COVER, FRONT (M15, M16)
141	0154F00026	GASKET FRONT COVER (M1, M2, M3, M4, M5, M6, M7, M8, M9)
141	0154F00030	GASKET FRONT COVER (M10, M11, M12, M13, M14)
141	0154F00034	GASKET FRONT COVER (M15, M16, M17, M18)
151	0257F00375	HEAT EXCHANGER ASSY (M4, M5, M6)
151	0257F00287	HEAT EXCHANGER ASSY. (M1, M2, M3)
151	0257F00289	HEAT EXCHANGER ASSY. (M7, M8, M9)
151	0257F00290	HEAT EXCHANGER ASSY. (M10, M11, M12)
151	0257F00291	HEAT EXCHANGER ASSY. (M13, M14)
151	0257F00292	HEAT EXCHANGER ASSY. (M17, M18)
151	0257F00441	HEAT EXCHANGER ASSY. (M15, M16)
161	M0326804	TUBE PLUG
171	0121F00539	SHEILD, BURNER (M1, M2, M3)
171	0121F00540	SHEILD, BURNER (M4, M5, M6)
171	0121F00541	SHEILD, BURNER (M7, M8, M9, M10, M11, M12)
171	0121F00542	SHEILD, BURNER (M13, M14, M15, M16)
171	0121F00543	SHEILD, BURNER (M17, M18)
181	0154F00043	GASKET ID BLOWER
231	A1781105	CAP-VINYL .500

Ref. No:	Part No:	Description:
Image 1:		
261	0121F00317	COVER, REAR (M1, M2, M3, M4, M5, M6, M7, M8, M9)
261	0121F00318	COVER, REAR (M10, M11, M12, M13, M14)
261	0121F00319	COVER, REAR (M15, M16, M17, M18)
271	0154F00037	GASKET, REAR CVR (M1, M2, M3, M4, M5, M6, M7, M8, M9)
271	0154F00038	GASKET, REAR CVR (M10, M11, M12, M13, M14)
271	0154F00039	GASKET, REAR CVR (M15, M16, M17, M18)
371	20162904	*PRIMARY LIMIT-TEMPERATURE CONTROL (M1, M2, M3, M7, M8, M9, M10, M11, M12)
371	0130F00036	PRIMARY LIMIT - PINK 180º (M15, M16, M17, M18)
371	20162906	PRIMARY LIMIT - WHITE (M4, M5, M6, M13, M14)
NS	0121F00415	AIR FURN BAFFLE
NS	0121F00583	INSULATION, RETAINER (M1, M2, M3, M4, M5, M6, M7, M8, M9)
NS	0121F00584	INSULATION, RETAINER (M10, M11, M12, M13, M14)
NS	0121F00585	INSULATION, RETAINER (M15, M16, M17, M18)
NS	0121F00439	PRIMARY LIMIT-HEAT SHIELD
NS	0121F00355	SHIELD, COIL (QTY 2)

Expanded Model Nomenclature

M1 - AMVC960403BNBA
M2 - AMVC960403BNBB
M3 - AMVC960403BNBC
M4 - AMVC960603BNBA
M5 - AMVC960603BNBB
M6 - AMVC960603BNBC
M7 - AMVC960803BNBA
M8 - AMVC960803BNBB
M9 - AMVC960803BNBC
M10 - AMVC960804CNBA
M11 - AMVC960804CNBB
M12 - AMVC960804CNBC
M13 - AMVC961005CNBA
M14 - AMVC961005CNBB
M15 - AMVC961005DNBA
M16 - AMVC961005DNBB
M17 - AMVC961205DNBA
M18 - AMVC961205DNBB