

Models and manufacturing
numbers in this manual

AMV80703BXA

AMV80704BXA

AMV80905CXA

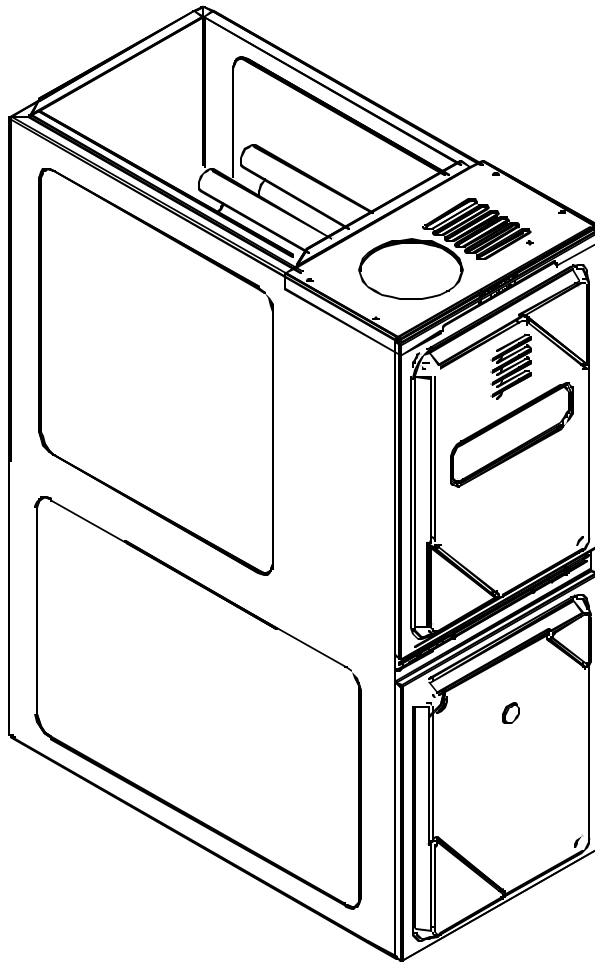
AMV81155CXA

Service Parts

AMV8* Upflow/Horizontal/Two- Stage/Variable Speed 80% AFUE Gas Furnace

This manual replaces RP-252.

This manual is to be used by qualified appliance technicians only.



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RP - 252B
Revision 1
October 2004

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Important Information

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.

For assistance within the U.S.A. contact:

Consumer Affairs Department
Goodman Company, L.P.
7401 Security Way
Houston, Texas 77040
877-254-4729-Telephone
713-863-2382-Facsimile

For assistance outside the U.S.A. contact:

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

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

Revision A: Updates Vent Motor Part Number
Revision B: Adds AMV80704BXA.

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	P_____
M2 - Model#2	P_____
M3 - Model#3	P_____

Functional Parts

Part No:	Description:
11118705	16 PIN WIRE HARNESS
B1370208	AIR PRESSURE SWITCH, 2-STAGE (M1, M4)
B1370209	AIR PRESSURE SWITCH, 2-STAGE (M2)
B1370210	AIR PRESSURE SWITCH, 2-STAGE (M3)
20269903	AUX. LIMIT SWITCH, (QTY 2)
B1368047	BLOWER WHEEL (10 X 10) (M2, M3)
B1368016	BLOWER WHEEL (10 X 8) (M1, M4)
20300006	CONTROL-INTEG
B1370820	DOOR SWITCH W/WIRES
B1172606	FLAME SENSOR
B4026006	GAS MANIFOLD, 3 CELL (M1, M4)
B4026007	GAS MANIFOLD, 4 CELL (M2)
B4026008	GAS MANIFOLD, 5 CELL (M3)
B4089343	GAS ORIFICE, #43 (QTY 3) (M1, M4)
B4089343	GAS ORIFICE, #43 (QTY 4) (M2)
B4089343	GAS ORIFICE, #43 (QTY 5) (M3)
B1282617	GAS VALVE, 2-STAGE
4021315S	HEAT EXCHANGER SUB ASM., 3 CELL 17.5" (M1, M4)
4021317S	HEAT EXCHANGER SUB ASM., 4 CELL 21" (M2)
4021318S	HEAT EXCHANGER SUB ASM., 5 CELL 21" (M3)
B1378702	HIGH VOLTAGE WIRE HARNESS
11111701	IGNITOR
B1141666	INDUCTOR COIL, 5.9 AMPS
B4022700	INSHOT BURNER, (QTY 3) (M1, M4)
B4022700	INSHOT BURNER, (QTY 4) (M2)
B4022700	INSHOT BURNER, (QTY 5) (M3)
B13400909GBS	MOTOR, DIRECT DRIVE 3/4 HP (M1, M4)
B13400911GBS	MOTOR, DIRECT DRIVE 3/4 HP (M3)
B13400910GBS	MOTOR, DIRECT DRIVE 3/4HP (M2)
A3468601	PRESSURE SWITCH HOSE
B1370145	ROLLOUT, SWITCH 300°F W/O BRKT. (QTY 2)
B1370207	SWITCH, PRIMARY LIMIT, 130°F (M3)
B1370198	SWITCH, PRIMARY LIMIT, 150°F (M2)
B1370188	SWITCH, PRIMARY LIMIT, 170°F (M1, M4)
B1141605	TRANSFORMER 120V TO 24V, 40 VA
B4059004S	VENT MOTOR 80%, 2 STAGE

Functional Parts

Part

No: Description:

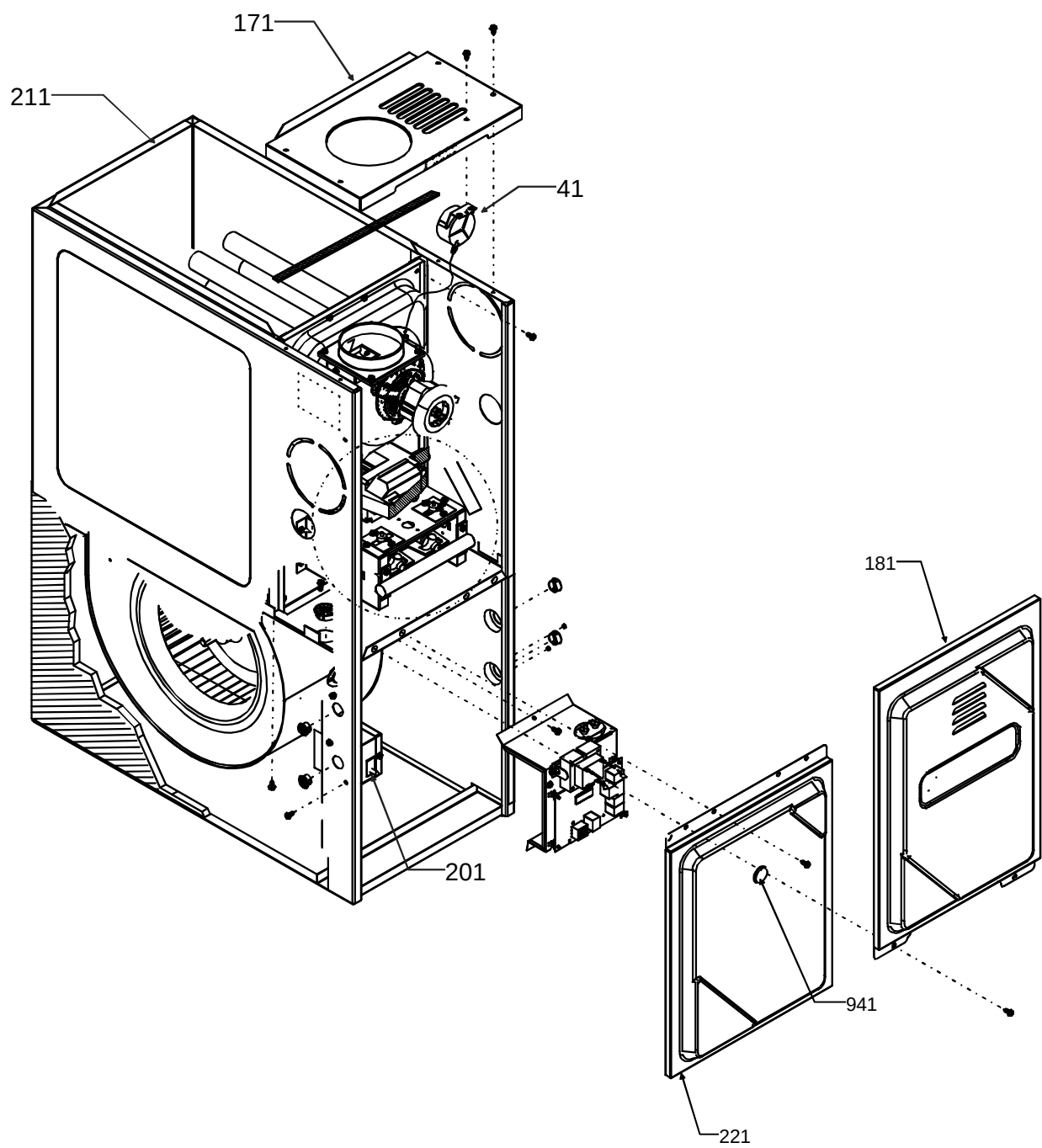
SPECIAL PARTS

HI-115	HOMEOWNER'S MANUAL
IO-247	INSTALLATION INSTRUCTIONS
PDB-AMV8	PRODUCT DATA BOOKLET
RP-252	REPAIR PARTS MANUAL
B260S8292	SPRAY TOUCH-UP PAINT, ARCH. GRAY (DARK)
B260S8293	SPRAY TOUCH-UP PAINT, EXEC. GRAY (LIGHT)
RT6622007	TECHNICAL MANUAL
20490407	WARRANTY CERTIFICATE

Expanded Model Nomenclatur

M1 - AMV80703BXA
M2 - AMV80905CXA
M3 - AMV81155CXA
M4 - AMV80704BXA

Cabinet



Cabinet

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

41	B1370208	AIR PRESSURE SWITCH, 2-STAGE (M1, M4)
41	B1370209	AIR PRESSURE SWITCH, 2-STAGE (M2)
41	B1370210	AIR PRESSURE SWITCH, 2-STAGE (M3)
71	B1370820	DOOR SWITCH W/WIRES
171	4008001PDG	TOP, PAINTED, 17.5" (M1, M4)
171	4008002PDG	TOP, PAINTED, 21" (M2, M3)
181	4012008PLG	DOOR CONTROL ACCESS, 17.5" (M1, M4)
181	4012009PLG	DOOR CONTROL ACCESS, 21" (M2, M3)
201	4014500	J-BOX
201	4015500	J-BOX COVER
211	4026530S	WRAPPER/INSULATION ASM.,17.5" (M1, M4)
211	4026531S	WRAPPER/INSULATION ASM.,21" (M2)
211	4026532S	WRAPPER/INSULATION ASM.,21" (M3)
221	4015005PLG	BLOWER ACCESS DOOR, 17.5" (M1, M4)
221	4015006PLG	BLOWER ACCESS DOOR, 21" (M2, M3)
941	B1392139	VIEW PORT BUSHING, CLEAR
991	A3468601	PRESSURE SWITCH HOSE
NS	B260S8292	SPRAY TOUCH-UP PAINT, ARCH. GRAY (DARK)
NS	B260S8293	SPRAY TOUCH-UP PAINT, EXEC. GRAY (LIGHT)

Expanded Model Nomenclature

M1 - AMV80703BXA
M2 - AMV80905CXA
M3 - AMV81155CXA
M4 - AMV80704BXA

Blower Assembly

IMAGE 1

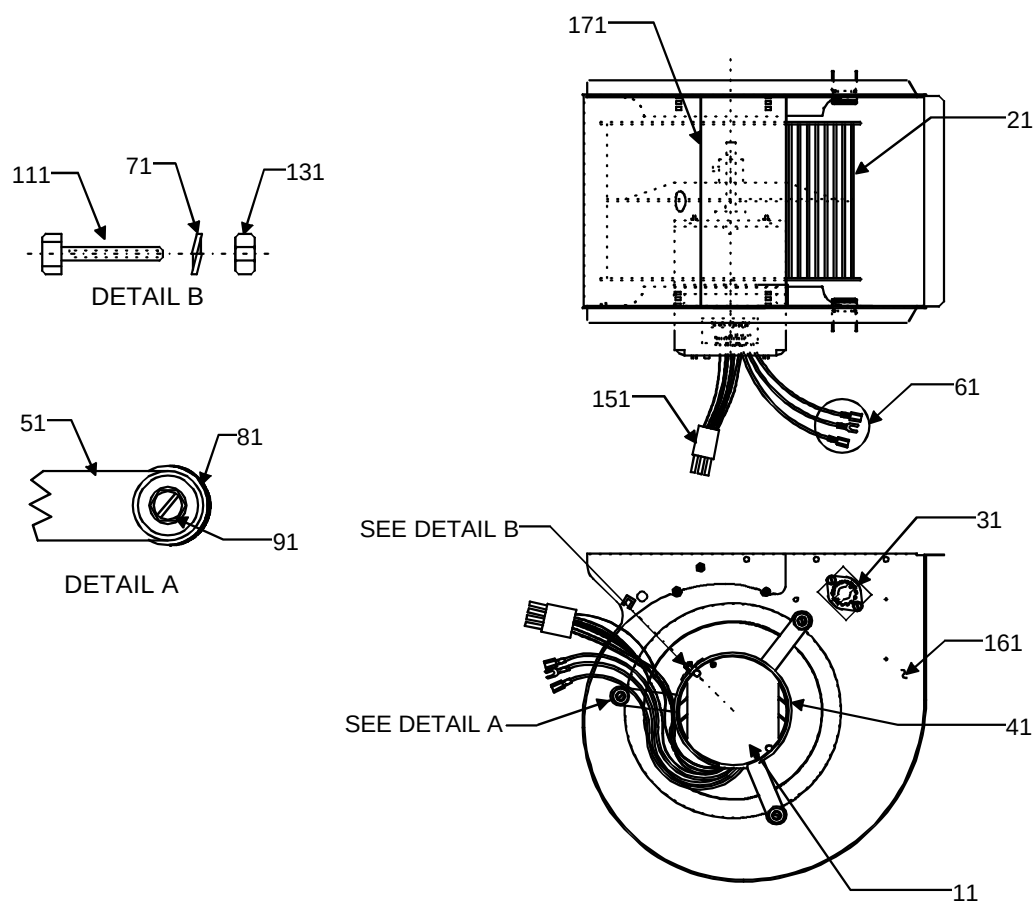
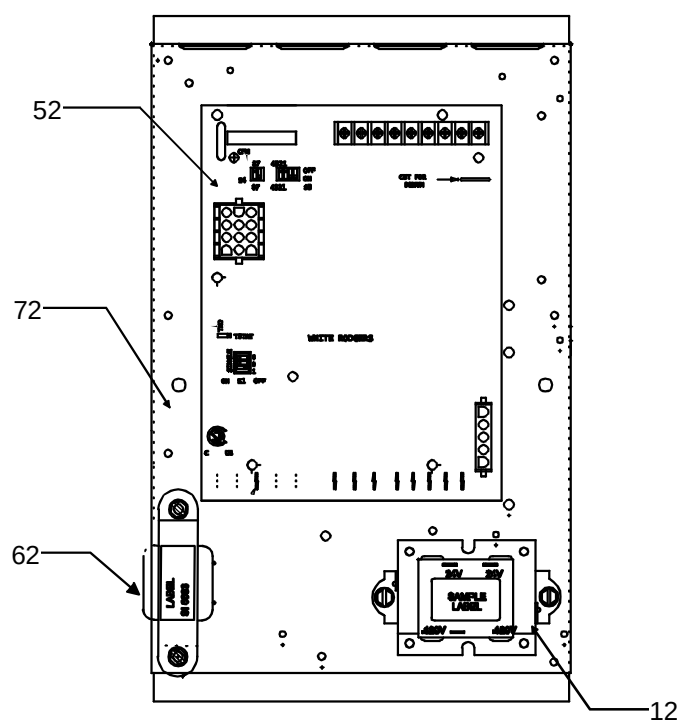


IMAGE 2



Blower Assembly

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

11	B13400909GBS	MOTOR, DIRECT DRIVE 3/4 HP (M1, M4)
11	B13400911GBS	MOTOR, DIRECT DRIVE 3/4 HP (M3)
11	B13400910GBS	MOTOR, DIRECT DRIVE 3/4HP (M2)
21	B1368047	BLOWER WHEEL (10 X 10) (M2, M3)
21	B1368016	BLOWER WHEEL (10 X 8) (M1, M4)
31	20269903	AUX. LIMIT SWITCH, (QTY 2)
41	B1376851	MOTOR MOUNT BAND
51	B1376853	MOTOR MOUNT ARM (QTY 3)
61	B1378702	HIGH VOLTAGE WIRE HARNESS
71	B1392820	WASHER, SPLIT LOCK 1/4" BZ FOR MOTOR MOUNT BAND
81	B1392918	WASHER, FLAT 1/4 ID X 1 OD (QTY 3) FOR MOTOR ARMS
91	B1393527	SCREW, HWH 14 X 1 - 1/2, A,SLOT (QTY 3) FOR MOTOR MOUNT BAND
111	B1393323	SCREW, MACH. HWH 1/4-20 X 1 1/2 FOR MOTOR ARMS
131	B1393800	LOCKNUT NYLON-INSERT 1/4, 20 FOR MOTOR MOUNT BAND
151	11118705	16 PIN WIRE HARNESS
161	2539311	BLOWER SHELL ASM (10 X 10) (M2, M3)
161	2539310	BLOWER SHELL ASM (10 X 8) (M1, M4)
171	764741	BLWR CUT-OFF, (10 X 10) (M2, M3)
171	764740	BLWR CUT-OFF, (10 X 8) (M1, M4)
NS	B1392143	GROMMET F/TORSIN FLEX (QTY 3)

Image 2:

12	B1141605	TRANSFORMER 120V TO 24V, 40 VA
52	20300006	CONTROL-INTEG
62	B1141666	INDUCTOR COIL, 5.9 AMPS
72	1815812	CONTROL MOUNT PANEL

Expanded Model Nomenclature

M1 - AMV80703BXA
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M3 - AMV81155CXA
M4 - AMV80704BXA

Heater Exchange Assy/Flue Collector Box

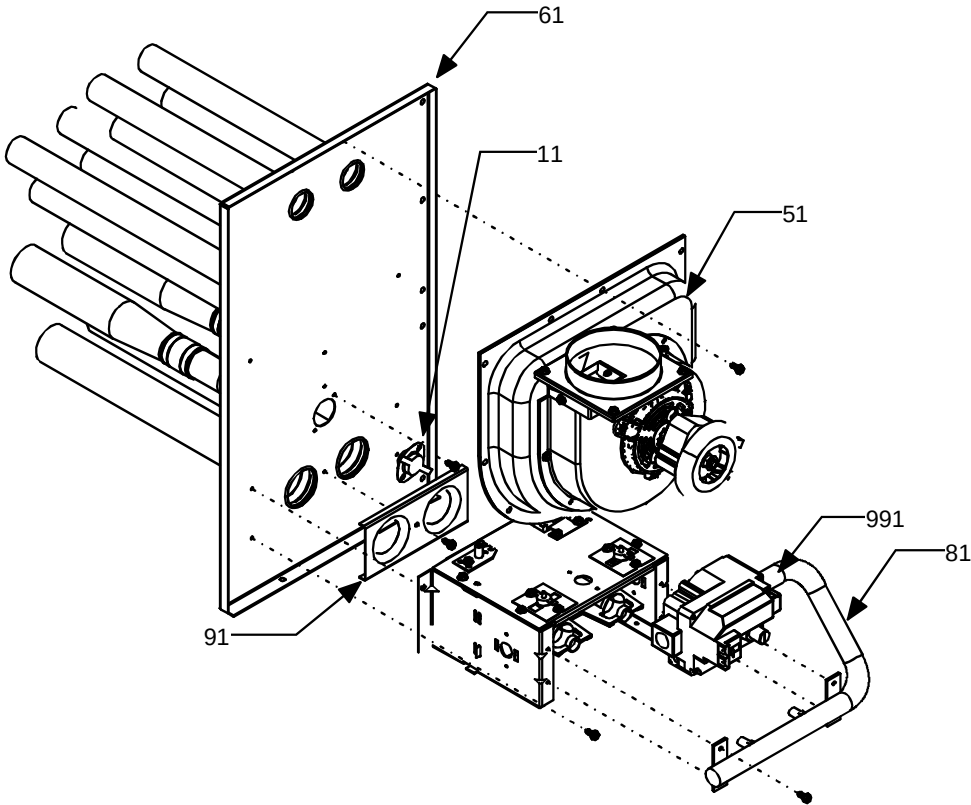
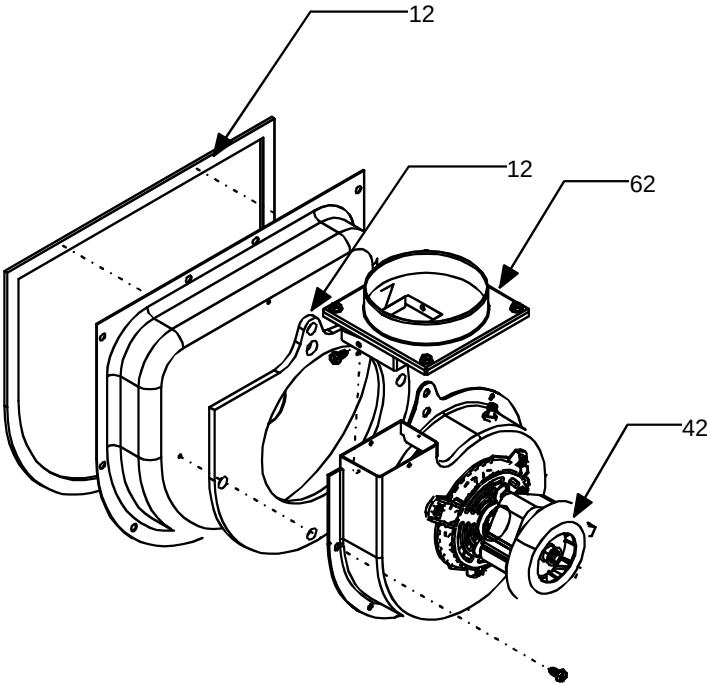


Image 1

Image 2



Heater Exchange Assy/Flue Collector Box

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

11	B1370207	SWITCH, PRIMARY LIMIT, 130°F (M3)
11	B1370198	SWITCH, PRIMARY LIMIT, 150°F (M2)
11	B1370188	SWITCH, PRIMARY LIMIT, 170°F (M1, M4)
51	4010019	FLUE COLL BX., 17.5" 1.75 DIA. (M1, M4)
51	4010016	FLUE COLL BX., 21" 2.00 DIA. (M2)
51	4010017	FLUE COLL BX., 21" 2.25 DIA. (M3)
61	4021315S	HEAT EXCHANGER SUB ASM., 3 CELL 17.5" (M1, M4)
61	4021317S	HEAT EXCHANGER SUB ASM., 4 CELL 21" (M2)
61	4021318S	HEAT EXCHANGER SUB ASM., 5 CELL 21" (M3)
81	B4026006	GAS MANIFOLD, 3 CELL (M1, M4)
81	B4026007	GAS MANIFOLD, 4 CELL (M2)
81	B4026008	GAS MANIFOLD, 5 CELL (M3)
91	4028001	ORIFICE PLATE, 3 CELL (M1, M4)
91	4028002	ORIFICE PLATE, 4 CELL (M2)
91	4028003	ORIFICE PLATE, 5 CELL (M3)
991	B1282617	GAS VALVE, 2-STAGE

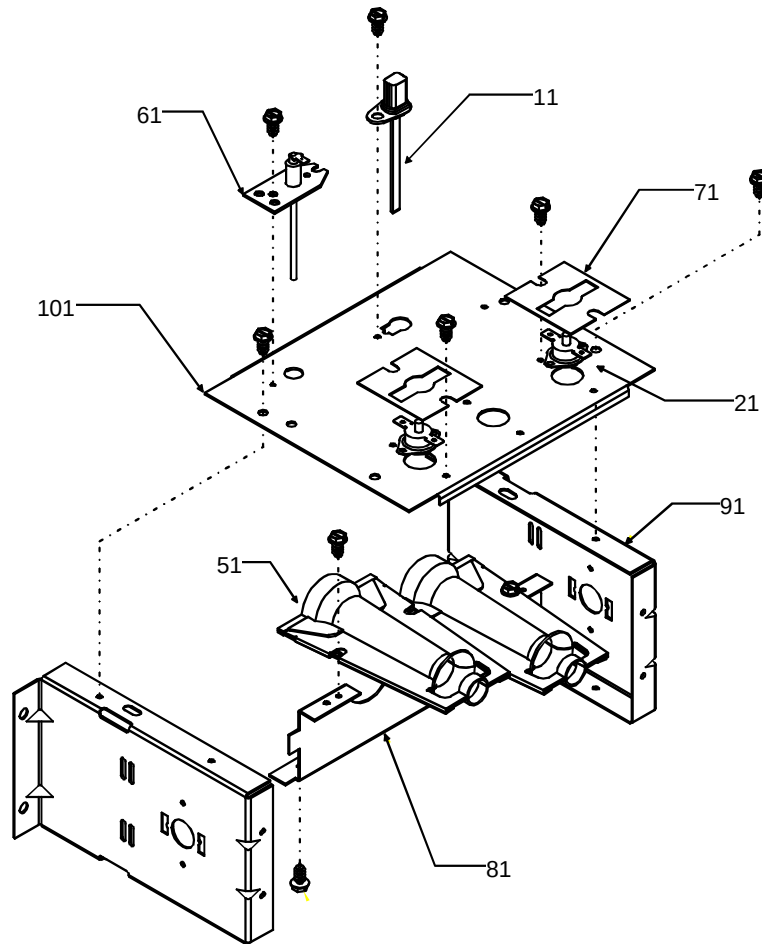
Image 2:

12	B1392635	GASKET, VENT MOTOR, 21" (M2, M3)
12	B1392634	GASKET, VENT MOTOR, 17.5" (M1, M4)
42	B4059004S	VENT MOTOR 80%, 2 STAGE
62	4053501	CHIMNEY ASSEMBLY

Expanded Model Nomenclature

M1 - AMV80703BXA M2 - AMV80905CXA M3 - AMV81155CXA M4 - AMV80704BXA
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Burner Box



Burner Box

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

11	11111701	IGNITOR
21	B1370145	ROLLOUT, SWITCH 300°F W/O BRKT. (QTY 2)
51	B4022700	INSHOT BURNER, (QTY 3) (M1, M4)
51	B4022700	INSHOT BURNER, (QTY 4) (M2)
51	B4022700	INSHOT BURNER, (QTY 5) (M3)
61	B1172606	FLAME SENSOR
71	2509503	BRACKET FOR ROLLOUT SWITCH (QTY 2)
81	2513501	BURNER RACK 3 CELL (M1, M4)
81	2513502	BURNER RACK 4 CELL (M2)
81	2513503	BURNER RACK 5 CELL (M3)
91	2514000	SIDE PLATE BURNER (QTY 2)
101	4013011	TOP PLATE, BURNER 3 CELL (M1, M4)
101	4013012	TOP PLATE, BURNER 4 CELL (M2)
101	4013013	TOP PLATE, BURNER 5 CELL (M3)
NS	B4089343	GAS ORIFICE, #43 (QTY 3) (M1, M4)
NS	B4089343	GAS ORIFICE, #43 (QTY 4) (M2)
NS	B4089343	GAS ORIFICE, #43 (QTY 5) (M3)
NS	10624003	INSERT-MESH TUBES, 3 CELL (M1, M4)
NS	10624003	INSERT-MESH TUBES, 4 CELL (M2)
NS	10624003	INSERT-MESH TUBES, 5 CELL (M3)

Expanded Model Nomenclature

M1 - AMV80703BXA
M2 - AMV80905CXA
M3 - AMV81155CXA
M4 - AMV80704BXA