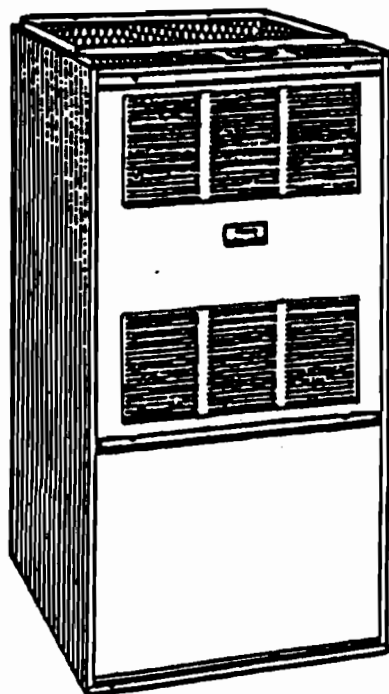


Amana



GUD GAS FURNACE

PARTS CATALOG

AMANA REFRIGERATION, INC., AMANA, IOWA 52204

MANUFACTURING NUMBERS COVERED IN THIS MANUAL

GUD045C30A, P1164501F
GUD070C30A, P1164502F
GUD070C40A, P1164503F
GUD090C35A, P1164504F
GUD090C50A, P1164505F
GUD115C50A, P1164506F

GUD045X30A, P1164507F
GUD070X30A, P1164508F
GUD070X40A, P1164509F
GUD090X35A, P1164510F
GUD090X50A, P1164511F
GUD115X50A, P1164512F

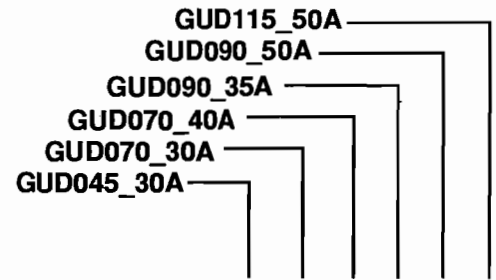
INDEX

FUNCTIONAL PARTS LIST.....	3
ILLUSTRATIONS AND PARTS LISTS.....	4 - 17

REV. 1 - UPDATED PART NUMBERS THROUGHOUT CATALOG; ADDED THE FOLLOWING MODELS
AND MANUFACTURING NUMBERS: GUD045X30A, P1164507F
GUD070X30A, P1164508F
GUD070X40A, P1164509F
GUD090X35A, P1164510F
GUD090X50A, P1164511F
GUD115X50A, P1164512F

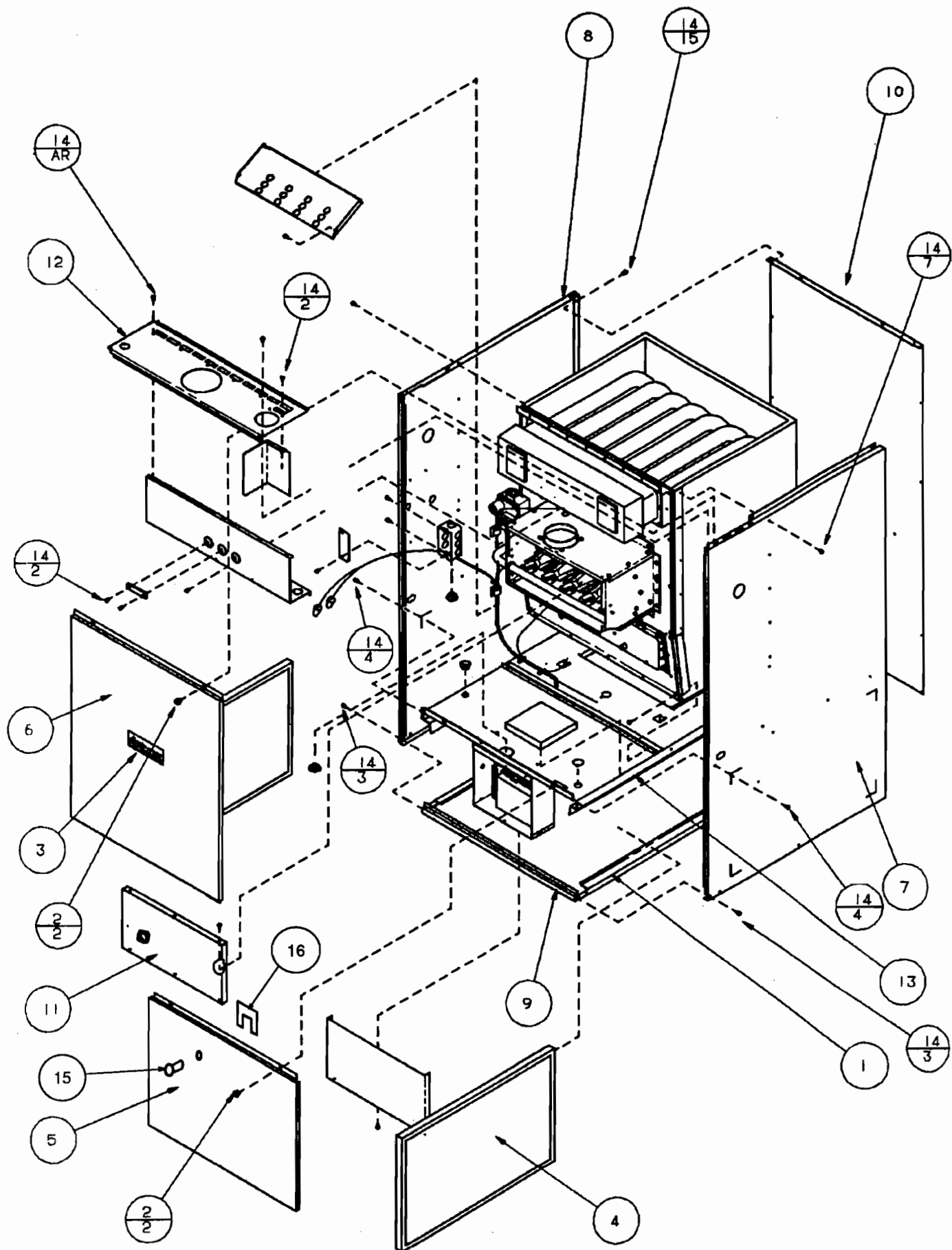
* - NEW PARTS USED
NS - NOT SHOWN
AR - AS REQUIRED

FUNCTIONAL PARTS LIST



PART NUMBER	DESCRIPTION						
10250801	LIMIT SWITCH	1	-	-	-	-	-
10250802	LIMIT SWITCH	-	1	1	-	-	-
10250803	LIMIT SWITCH	-	-	-	1	1	-
10250804	LIMIT SWITCH	-	-	-	-	-	1
D9868608	BLOWER-INDUCED DRAFT	1	1	1	-	-	-
D9868607	BLOWER-INDUCED DRAFT	-	-	-	1	1	1
10207903	SWITCH-PRESSURE	1	-	-	1	1	-
10207901	SWITCH-PRESSURE	-	1	1	-	-	-
10207904	SWITCH-PRESSURE	-	-	-	-	-	1
A3375801	CAPACITOR-BOOT	1	1	1	1	1	1
D6905401	CAPACITOR, 370V, 5MFD	1	-	-	-	-	-
10099901	CAPACITOR, 370V, 5MFD	-	1	-	-	-	-
D6859325	CAPACITOR, 370V, 10MFD	-	-	1	-	-	-
10099902	CAPACITOR, 370V, 7.5MFD	-	-	-	1	-	-
D6879739	CAPACITOR, 370V, 15MFD	-	-	-	-	1	1
D6723302	WHEEL-BLOWER	1	1	-	1	-	-
D6723306	WHEEL-BLOWER	-	-	1	-	1	1
10220001	MOTOR-BLOWER	1	-	-	-	-	-
10219801	MOTOR-BLOWER	-	1	-	-	-	-
10219601	MOTOR-BLOWER	-	-	1	-	-	-
10219901	MOTOR-BLOWER	-	-	-	1	-	-
10219701	MOTOR-BLOWER	-	-	-	-	1	1
10041601	IGNITOR ASSY	1	1	1	1	1	1
10624002	INSERTS-TUBE MESH (X MODELS ONLY)	2	3	3	4	4	5
C6476905	VALVE-GAS	1	1	1	1	1	1
C6437602	ORIFICE, PROPANE GAS	2	3	3	4	4	5
C6437603	ORIFICE, NATURAL GAS	2	3	3	4	4	5
C6437503	SENSOR-FLAME	1	1	1	1	1	1
D6997806	INSHOT BURNER ASSY	2	3	3	4	4	5
C6349701	TRANSFORMER	1	1	1	1	1	1
10207702	CONTROL-INTEGRATED	1	1	1	1	1	1
*10208104	MANUAL-USERS	1	1	1	1	1	1
*10207805	INSTRUCTION-INSTALLATION	1	1	1	1	1	1
B1417305A	PROPANE CONVERSION KIT	1	1	1	1	1	1
*10195504Q	STANDPIPE BAG ASSY	1	1	1	1	1	1

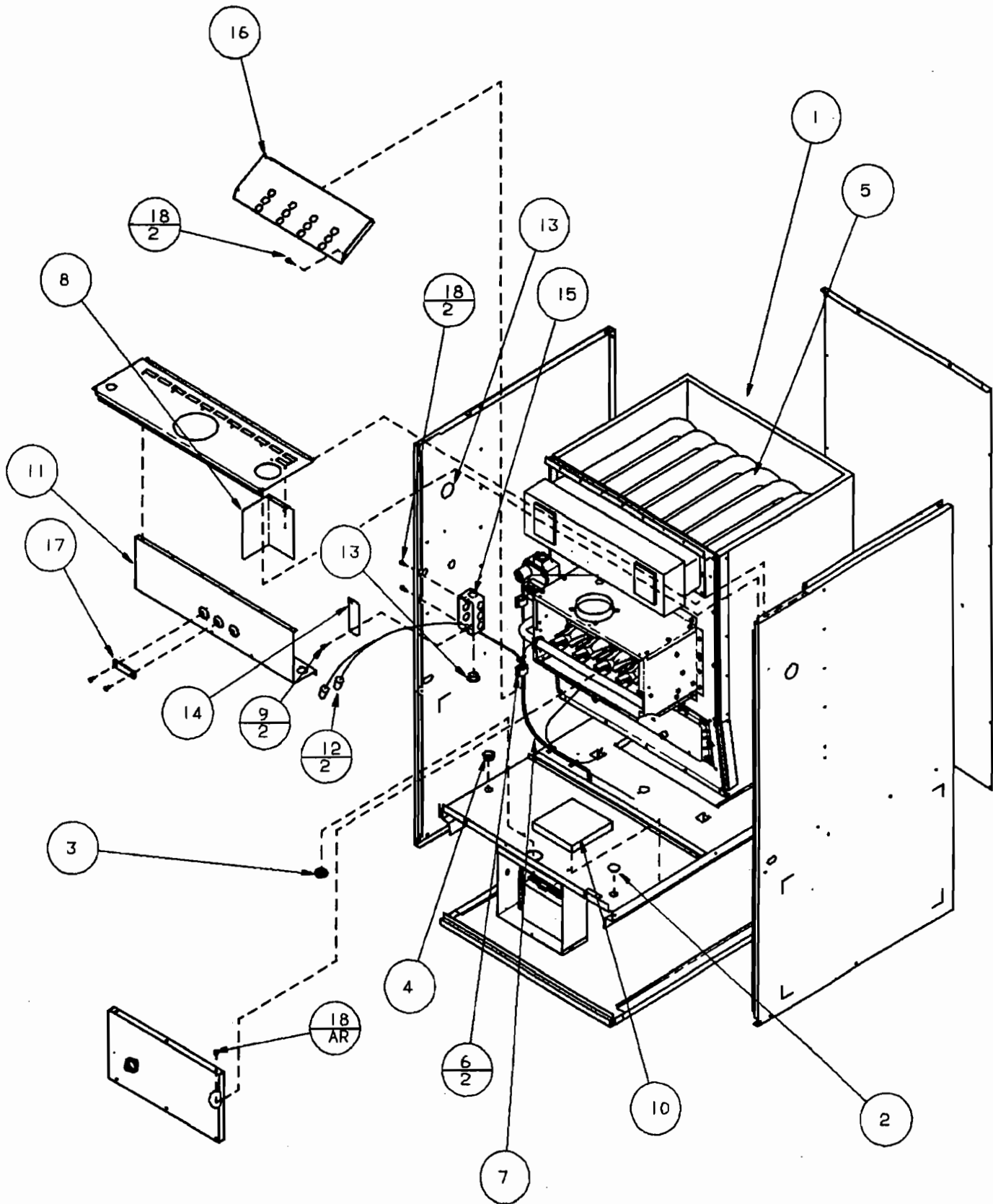
CABINET ASSEMBLY



PARTS LIST

REF. NO.	PART NUMBER	DESCRIPTION	GUD115_50A GUD090_50A GUD090_35A GUD070_40A GUD070_30A GUD045_30A					
01	A9020401	RETAINER-FILTER	1	-	-	-	-	-
01	A9020402	RETAINER-FILTER	-	1	1	-	-	-
01	A9020403	RETAINER-FILTER	-	-	-	1	1	1
02	B1388803	LATCH-1/4 TURN	4	4	4	4	4	4
03	10095404	NAMEPLATE-AMANA	1	1	1	1	1	1
04	C4855607	FILTER	1	1	1	1	2	2
05	D6979612	BLOWER DOOR-PNT	1	-	-	-	-	-
05	D6979611	BLOWER DOOR-PNT	-	1	1	-	-	-
05	D6979610	BLOWER DOOR-PNT	-	-	-	1	1	1
06	D6988004	ACCESS DOOR	1	-	-	-	-	-
06	D6988009	ACCESS DOOR	-	1	1	-	-	-
06	D6988010	ACCESS DOOR	-	-	-	1	1	1
07	10452403	R SIDE PANEL-PNT	1	1	1	1	1	1
08	10452003	L SIDE PANEL-PNT	1	1	1	1	1	1
09	10568606	BASEPAN-PNT	1	-	-	-	-	-
09	10568604	BASEPAN-PNT	-	1	1	-	-	-
09	10568602	BASEPAN-PNT	-	-	-	1	1	1
10	D9965706	BACK PANEL-PNT	1	-	-	-	-	-
10	D9965705	BACK PANEL-PNT	-	1	1	-	-	-
10	D9965704	BACK PANEL-PNT	-	-	-	1	1	1
*11	10249908Q	FRONT COVER ASSY	1	-	-	-	-	-
*11	10249907Q	FRONT COVER ASSY	-	1	1	-	-	-
*11	10249906Q	FRONT COVER ASSY	-	-	-	1	1	-
*11	10249905Q	FRONT COVER ASSY	-	-	-	-	-	1
12	10236808	TOP COVER-PNT	1	-	-	-	-	-
12	10236806	TOP COVER-PNT	-	1	1	-	-	-
12	10236804	TOP COVER-PNT	-	-	-	1	1	-
12	10236802	TOP COVER-PNT	-	-	-	-	-	1
13	10204301	DECK-BLOWER	1	-	-	-	-	-
13	10204302	DECK-BLOWER	-	1	-	-	-	-
13	10204303	DECK-BLOWER	-	-	1	-	-	-
13	10204304	DECK-BLOWER	-	-	-	1	-	-
13	10204305	DECK-BLOWER	-	-	-	-	1	1
14	M0219916	SCREW-SM	37	38	38	40	40	40
15	10466101	PLUG, LIGHT	1	1	1	1	1	1
16	M0119903	CLIP	1	1	1	1	1	1

PARTITION/TUBE ASSEMBLY & CABINET ASSEMBLY (CON'T)

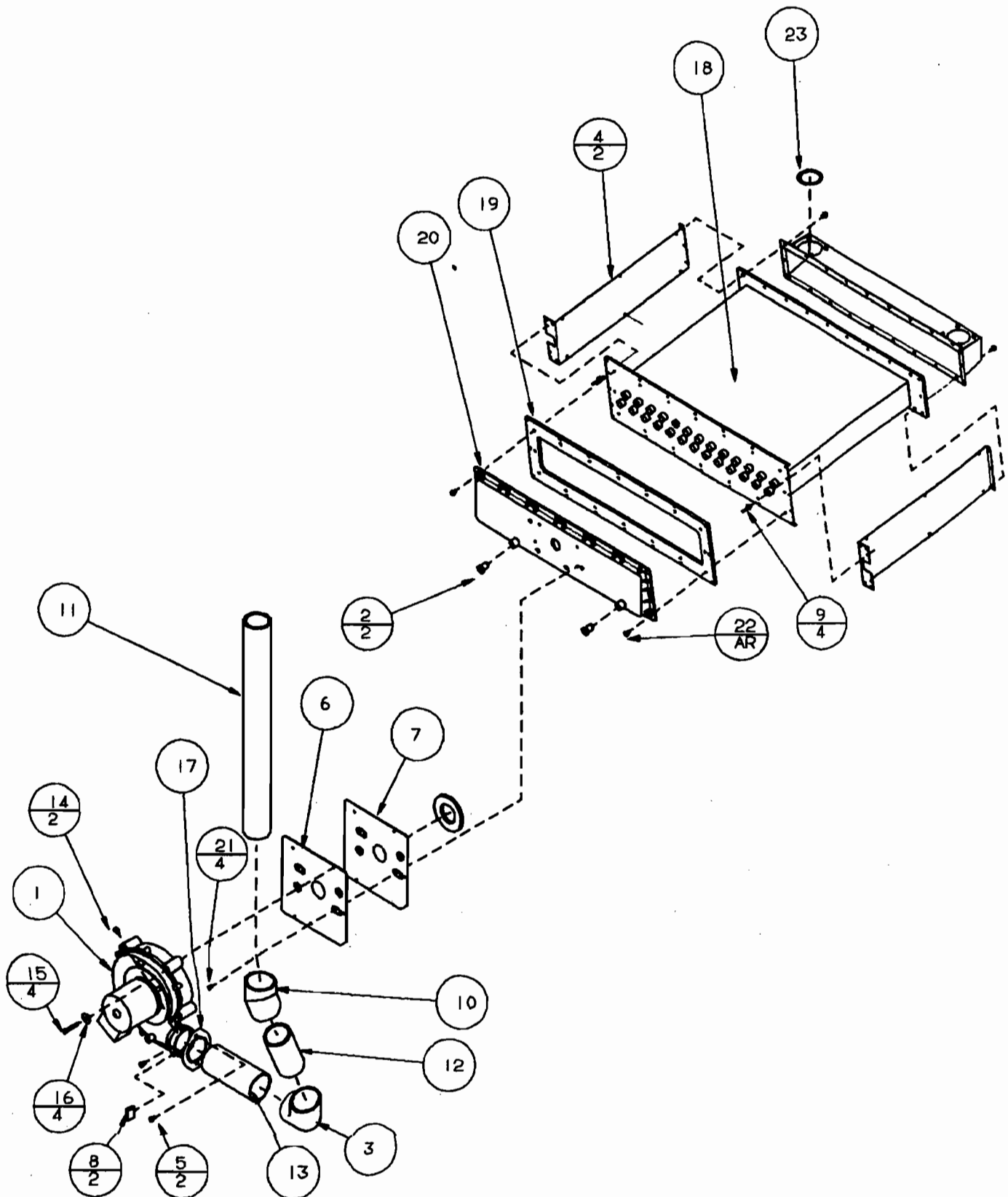


PARTS LIST

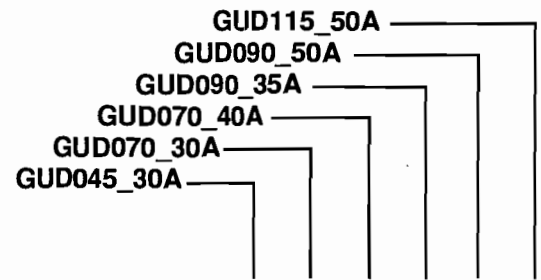


REF. NO.	PART NUMBER	DESCRIPTION						
01	C6415904	INSULATION-HEAT EXCHANGER	1	-	-	-	-	-
01	C6415905	INSULATION-HEAT EXCHANGER	-	1	1	-	-	-
01	C6415906	INSULATION-HEAT EXCHANGER	-	-	-	1	1	1
02	M0310308	PLUG-WHITE BUTTON	1	1	1	1	1	1
03	M0310306	PLUG BUTTON	1	1	1	1	1	1
04	A3023301	GROMMET	1	1	1	1	1	1
05	10204101	PARTITION/TUBE ASSY	1	-	-	-	-	-
05	10204102	PARTITION/TUBE ASSY	-	1	1	-	-	-
05	10204103	PARTITION/TUBE ASSY	-	-	-	1	1	-
05	10204104	PARTITION/TUBE ASSY	-	-	-	-	-	1
06	M0104102	CLIP-CORD	2	2	2	2	2	2
07	10256903	HARNESS-WIRING, MAIN	1	1	1	1	1	1
08	C6455101	SHIELD-HEAT	1	1	1	1	1	1
09	M0216716	SCREW-SM	2	2	2	2	2	2
10	M0050227	BLOCK-FOAM	1	1	1	1	1	1
11	10261801	SHIELD-AIR PIPE	1	-	-	-	-	-
11	10261802	SHIELD-AIR PIPE	-	1	1	-	-	-
11	10261803	SHIELD-AIR PIPE	-	-	-	1	1	1
12	A4617502	NUT-WIRE	2	2	2	2	2	2
13	A4554801	BUSHING-SNAP	2	2	2	2	2	2
14	10422001	COVER-HIGH VOLTAGE BOX	1	1	1	1	1	1
15	10421901	BOX-HIGH VOLTAGE	1	1	1	1	1	1
16	10236108	BAFFLE-FRESH AIR BOX	1	-	-	-	-	-
16	10236107	BAFFLE-FRESH AIR BOX	-	1	1	-	-	-
16	10236106	BAFFLE-FRESH AIR BOX	-	-	-	1	1	-
16	10236105	BAFFLE-FRESH AIR BOX	-	-	-	-	-	1
17	10261901	STRIP-SUPPORT	1	1	1	1	1	1
18	M0216529	SCREW-SM	9	9	9	11	11	11

RECUPERATOR COIL & INDUCED DRAFT BLOWER ASSY

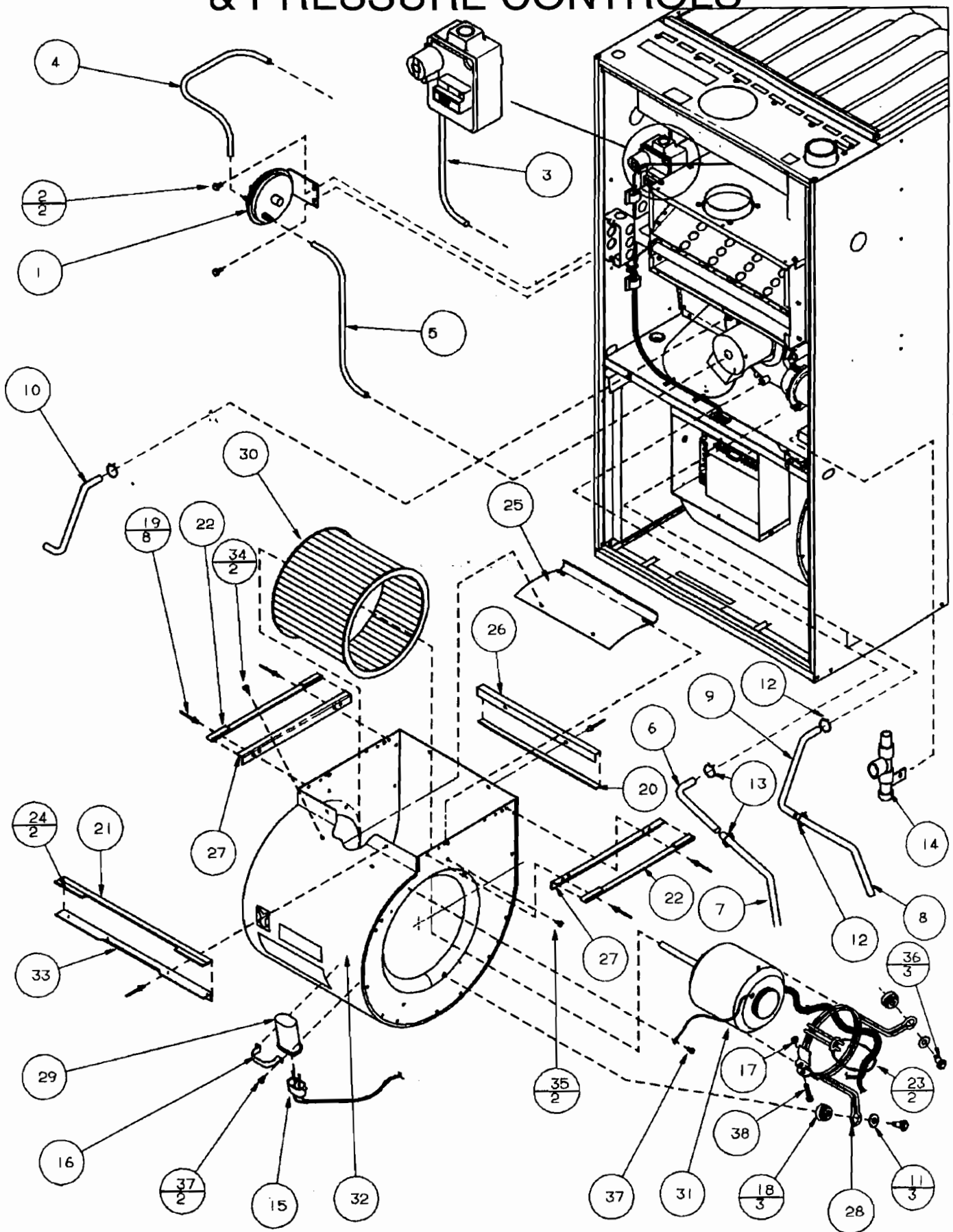


PARTS LIST



REF. NO.	PART NUMBER	DESCRIPTION						
01	D9868608	BLOWER-INDUCED DRAFT	1	1	1	-	-	-
01	D9868607	BLOWER-INDUCED DRAFT	-	-	-	1	1	1
02	M0326804	PULG-TUBE	2	2	2	2	2	2
03	C6458203	ELBOW-CUTOFF	1	-	-	-	-	-
03	10241601	ELBOW-PVC	-	1	1	1	1	1
04	10220501	SHIELD-COIL	2	2	2	2	2	2
05	M0200304	SCREW-MACH	2	2	2	2	2	2
06	D9986602	PLATE-BLOWER	1	1	1	1	1	1
07	D9855801	GASKET-BLOW PLT	1	1	1	1	1	1
08	M0283201	NUT-U TYPE SPEED	2	2	2	2	2	2
09	A4539606	RIVET-POP	4	4	4	4	4	4
10	C6455901	ELBOW-22 1/2" ELL	1	-	-	-	-	-
11	B1370920	PIPE-PVC STRAIGHT	1	-	-	-	-	-
11	10195401	PIPE-PVC FLUE	-	1	1	1	1	1
12	B1370923	PIPE-PVC STRAIGHT	1	-	-	-	-	-
13	B1370917	PIPE-PVC STRAIGHT	1	-	-	-	-	-
13	B1370922	PIPE-PVC STRAIGHT	-	1	1	-	-	-
13	B1370921	PIPE-PVC STRAIGHT	-	-	-	1	1	1
14	M0236717	SCREW-SM	2	2	2	2	2	2
15	~~M0211032~~ <i>M0218152</i>	SCREW-SM	4	4	4	4	4	4
16	M0270528	WASHER-FLAT	4	4	4	4	4	4
17	D9849601	COLLAR-PIPE	1	1	1	1	1	1
18	10220301	RECUPERATOR COIL ASSY	1	-	-	-	-	-
18	10220305	RECUPERATOR COIL ASSY	-	1	1	-	-	-
*18	10220306Q	RECUPERATOR COIL ASSY	-	-	-	1	1	-
18	10220304	RECUPERATOR COIL ASSY	-	-	-	-	-	1
19	D9875101	GASKET-FRONT COVER	1	-	-	-	-	-
19	D9875102	GASKET-FRONT COVER	-	1	1	-	-	-
19	D9875103	GASKET-FRONT COVER	-	-	-	1	1	1
20	10197102	COVER-FRONT RECUPERATOR	1	-	-	-	-	-
20	10197103	COVER-FRONT RECUPERATOR	-	1	1	-	-	-
20	10197201	COVER-FRONT RECUPERATOR	-	-	-	1	1	-
20	10197205	COVER-FRONT RECUPERATOR	-	-	-	-	-	1
21	M0228032	SCREW-TC	AR	AR	AR	AR	AR	AR
22	M0211032	SCREW-SM	AR	AR	AR	AR	AR	AR
23	R0195032	SEALER-HIGH TEMPERATURE	AR	AR	AR	AR	AR	AR

BLOWER ASSEMBLY & PRESSURE CONTROLS

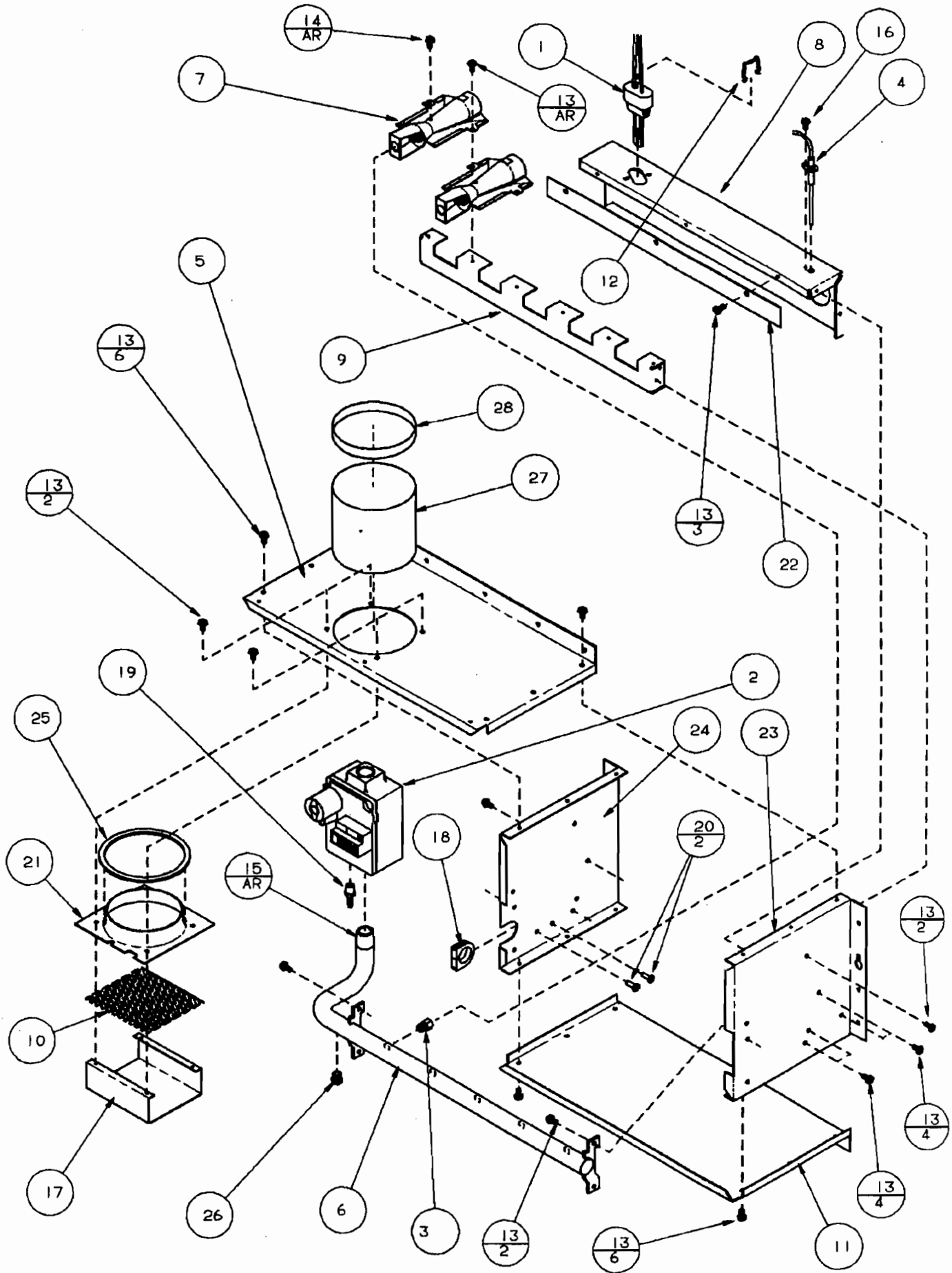


PARTS LIST



REF. NO.	PART NUMBER	DESCRIPTION						
01	10207903	SWITCH-PRESSURE	1	-	-	1	1	-
01	10207901	SWITCH-PRESSURE	-	1	1	-	-	-
01	10207904	SWITCH-PRESSURE	-	-	-	-	-	1
02	M0216716	SCREW-SM	2	2	2	2	2	2
03	B1410306	HOSE-PRESSURE SWITCH	1	1	1	1	1	1
04	B1410308	HOSE-PRESSURE SWITCH	1	1	1	1	1	1
05	B1410309	HOSE-PRESSURE SWITCH	1	1	1	-	-	-
05	B1410310	HOSE-PRESSURE SWITCH	-	-	-	-	-	1
06	10194301	HOSE-DRAIN	1	1	1	1	1	1
07	10194501	TUBE-DRAIN	1	1	1	1	1	1
08	10194601	TUBE-DRAIN	1	1	1	1	1	1
09	10220701	HOSE-R DRAIN	1	1	1	1	1	1
10	10220801	HOSE-L DRAIN	1	1	1	1	1	1
11	M0274008	WASHER-FLAT	3	3	3	3	3	3
12	M0119206	CLAMP-HOSE	2	2	2	2	2	2
13	M0119205	CLAMP-HOSE	2	2	2	2	2	2
*14	C6458404Q	STANDPIPE ASSY	1	1	1	1	1	1
15	A3375801	CAPACITOR-BOOT	1	1	1	1	1	1
16	A4055402	STRAP-CAPACITOR	1	1	1	1	-	-
16	A3410501	STRAP-CAPACITOR	-	-	-	-	1	1
17	M0282013	NUT-KEPS	1	1	1	1	1	1
18	A4002702	GROMMET	3	3	3	3	3	3
19	A4539611	RIVET-POP	8	8	8	8	8	8
20	B1136502	FELT-BACK	1	1	-	1	-	-
20	B1136518	FELT-SIDE	-	-	1	-	1	1
21	B1136519	FELT-FRONT	1	1	1	1	1	1
22	B1136517	FELT-SIDE	2	2	2	2	2	2
23	M0321204	TIE-ELEC	2	2	2	2	2	2
24	B1136522	FELT	2	2	2	2	2	2
25	C6121810	CUTOFF	1	1	-	1	-	-
25	C6121807	CUTOFF	-	-	1	-	1	1
26	C6392834	REAR ANGLE-PNT	1	1	-	1	-	-
26	C6392833	REAR ANGLE-PNT	-	-	1	-	1	1
27	C6392906	SIDE ANGLE-PNT	2	2	2	2	2	2
28	C9443702	BRACKET-MOTOR MT	1	1	-	1	-	-
28	C9443701	BRACKET-MOTOR MT	-	-	1	-	1	1
29	D6905401	CAPACITOR, 5MFD 370V	1	-	-	-	-	-
29	10099901	CAPACITOR, 5MFD 370V	-	1	-	-	-	-
29	D6859325	CAPACITOR, 10MFD 370V	-	-	1	-	-	-
29	10099902	CAPACITOR, 7.5MFD 370V	-	-	-	1	-	-
29	D6879739	CAPACITOR, 15MFD 370V	-	-	-	-	1	1
30	D6723302	WHEEL-BLOWER	1	1	-	1	-	-
30	D6723306	WHEEL-BLOWER	-	-	1	-	1	1
31	10220001	MOTOR-BLOWER	1	-	-	-	-	-
31	10219801	MOTOR-BLOWER	-	1	-	-	-	-
31	10219601	MOTOR-BLOWER	-	-	1	-	-	-
31	10219901	MOTOR-BLOWER	-	-	-	1	-	-
31	10219701	MOTOR-BLOWER	-	-	-	-	1	1
32	10324202	BLOWER HOUSING WELD-PNT	1	1	-	1	-	-
32	D9909806	BLOWER HOUSING WELD-PNT	-	-	1	-	1	1
33	D9950104	BLOWER ANGLE FRONT-PNT	1	1	-	1	-	-
33	D9950103	BLOWER ANGLE FRONT-PNT	-	-	1	-	1	1
34	M0211016	SCREW-SM	2	2	2	2	2	2
35	M0211020	SCREW-SM	2	2	2	2	2	2
36	M0221461	SCREW-TC	3	3	3	3	3	3
37	M0233716	SCREW-SM	3	3	3	3	3	3
38	M0267144	SCREW-MACH	1	1	1	1	1	1

MANIFOLD ASSEMBLY

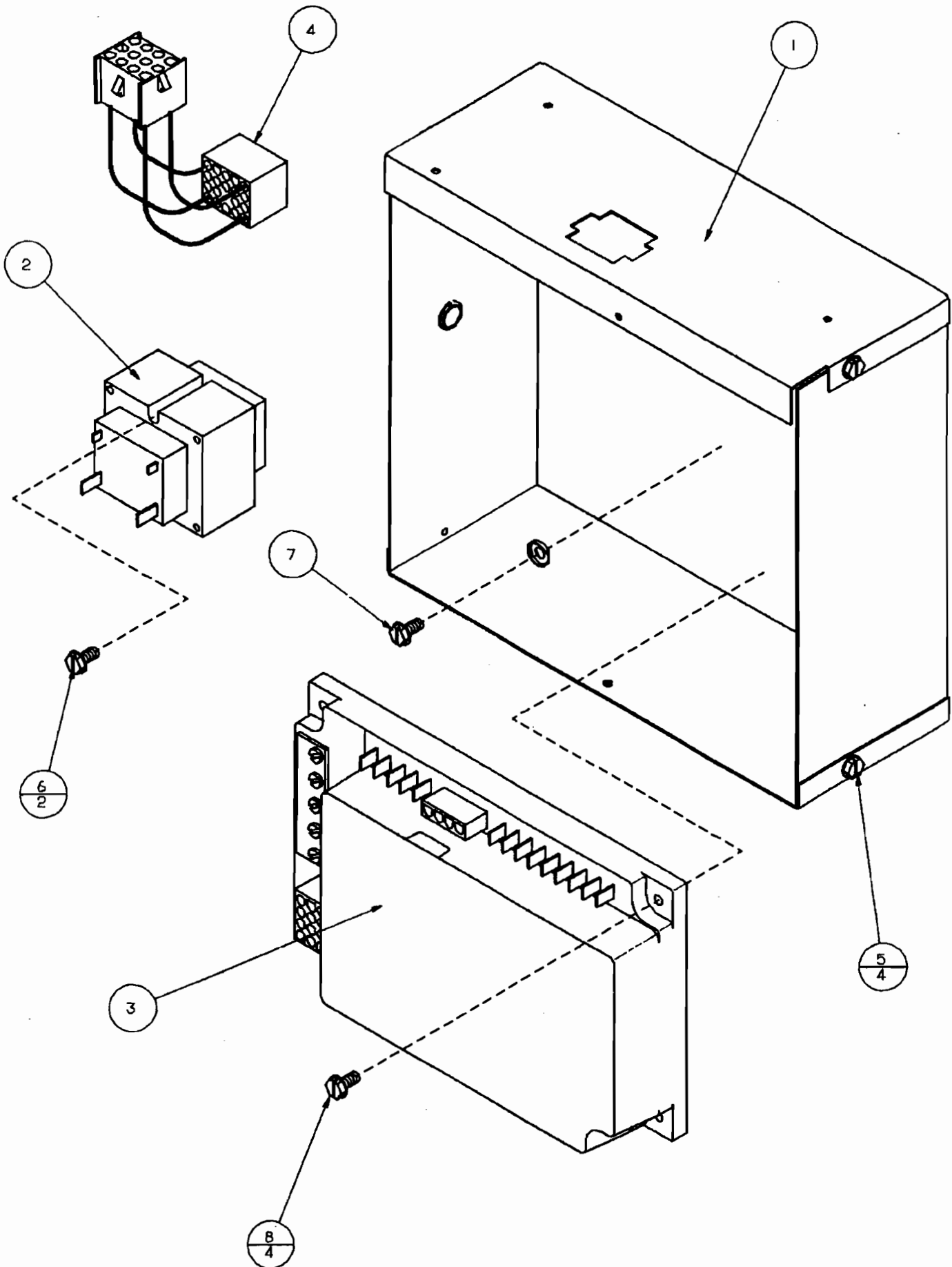


PARTS LIST

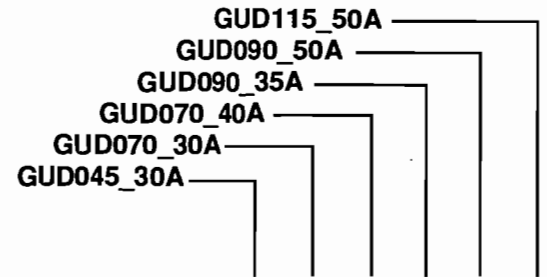


REF. NO.	PART NUMBER	DESCRIPTION						
01	10041601	IGNITOR ASSY	1	1	1	1	1	1
02	C6476905	VALVE-GAS	1	1	1	1	1	1
03	C6437602	ORIFICE, PROPANE GAS	2	3	3	4	4	5
03	C6437603	ORIFICE, NATURAL GAS	2	3	3	4	4	5
04	C6437503	SENSOR-FLAME	1	1	1	1	1	1
05	10237004	TOP-FRESH AIR BOX	1	-	-	-	-	-
05	10237003	TOP-FRESH AIR BOX	-	1	1	-	-	-
05	10237002	TOP-FRESH AIR BOX	-	-	-	1	1	-
05	10237001	TOP-FRESH AIR BOX	-	-	-	-	-	1
06	10249704	MANIFOLD	1	-	-	-	-	-
06	10249703	MANIFOLD	-	1	1	-	-	-
06	10249702	MANIFOLD	-	-	-	1	1	-
06	10249701	MANIFOLD	-	-	-	-	-	1
07	D6997806	INSHOT BURNER ASSY	2	3	3	4	4	5
08	10236212	BRACKET-SHIELD & MOUNTING C	1	-	-	-	-	-
08	10236211	BRACKET-SHIELD & MOUNTING C	-	1	1	-	-	-
08	10236210	BRACKET-SHIELD & MOUNTING C	-	-	-	1	1	-
08	10236209	BRACKET-SHIELD & MOUNTING	-	-	-	-	-	1
09	10236612	BRACKET-BURNER	1	-	-	-	-	-
09	10236611	BRACKET-BURNER	-	1	1	-	-	-
09	10236610	BRACKET-BURNER	-	-	-	1	1	-
09	10236609	BRACKET-BURNER	-	-	-	-	-	1
10	10249501	BAFFLE-FLUE	1	1	1	1	1	1
11	10237008	BOTTOM-FRESH AIR BOX	1	-	-	-	-	-
11	10237007	BOTTOM-FRESH AIR BOX	-	1	1	-	-	-
11	10237006	BOTTOM-FRESH AIR BOX	-	-	-	1	1	-
11	10237005	BOTTOM-FRESH AIR BOX	-	-	-	-	-	1
12	B1420601	CLIP-IGNITOR	1	1	1	1	1	1
13	M0216529	SCREW-SM	35	38	38	41	41	44
14	M0227306	SCREW-TC	2	3	3	4	4	5
15	M0275592	SEALER-PIPE	AR	AR	AR	AR	AR	AR
16	M0211003	SCREW-SM	1	1	1	1	1	1
17	10238702	BAFFLE-FRESH AIR PIPE	1	1	1	1	1	1
18	A4568803	GROMMET-D	1	1	1	1	1	1
19	10218701	HOSE-BARB	1	1	1	1	1	1
20	A4539628	RIVET-POP	2	2	2	2	2	2
21	10238801	EXTRUSION-FRESH AIR PIPE	1	1	1	1	1	1
22	10237408	SHIELD-BURNER	1	-	-	-	-	-
22	10237407	SHIELD-BURNER	-	1	1	-	-	-
22	10237406	SHIELD-BURNER	-	-	-	1	1	-
22	10237405	SHIELD-BURNER	-	-	-	-	-	1
23	10237501	SIDE-R FRESH AIR BOX	1	1	1	1	1	1
24	10238601	SIDE-L FRESH AIR BOX	1	1	1	1	1	1
25	10249601	GASKET-FRESH AIR EXTRUSION	1	1	1	1	1	1
26	M0750101	PLUG-PIPE	1	1	1	1	1	1
27	10254302	COUPLING-AIR INLET PIPE	1	1	1	1	1	1
28	A3326006	CLAMP-AIR INLET COUPLING	2	2	2	2	2	2

CONTROL BOX ASSEMBLY



PARTS LIST



REF. NO.	PART NUMBER	DESCRIPTION						
01	10451201	BOX-CONTROL	1	1	1	1	1	1
02	C6349701	TRANSFORMER	1	1	1	1	1	1
03	10207702	CONTROL-INTEGRATED	1	1	1	1	1	1
04	10256803	HARNESS-WIRING, IGNITION CONTROL	1	1	1	1	1	1
05	M0216529	SCREW-SM	4	4	4	4	4	4
06	M0216536	SCREW-SM	2	2	2	2	2	2
07	M0227803	SCREW-TC	1	1	1	1	1	1
08	M0216531	SCREW-SM	4	4	4	4	4	4

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A Raytheon Company

January 3, 1992

Mr. Duane Corthell
Amana Refrigeration West Central
11440 East 56th Avenue, Suite 200
Denver CO 80239

cc. Tom Brown
Patrick Ackerman
Rich Whittington
Bob Harrison

Dear Mr. Corthell:

As we understand it, questions have arisen regarding the proper size fuse to be used with Amana' indoor furnaces. The fuse size will also affect the power supply and ground wire sizes required.

We have discussed this issue with Underwriters Laboratories. Reference may be made to UL Standard 795, Table 11B.1. In brief, this Standard states that the fuse size shall be not more than 125% of the electrical load. It is permissible to round the answer up or down to the nearest commonly available fuse size. Furnaces should always use time-delay ("slow blow") fuses.

Amana determines the full load amps for its indoor furnaces by adding the nameplate amps of the blower motor, induced draft motor, plus 5.0 amps for the ignitor, and a small additional amount for the other controls. This is listed as the "F.L.A." in the furnace's Installation Manual. Two examples follow:

Example One: A GUI090B30 has an FLA rating of 13.6 amps. $13.6 \times 1.25 = 17.0$ Amps. 17 is closer to 15 than it is to 20. Therefore, this furnace should be protected by a 15 amp time-delay type fuse.

With overcurrent protection of 15 amps, this furnace may use copper power supply wires as small as #14. Special conditions (long runs, high ambient temperatures, etc.) may require larger wires. See the National Electrical Code for details.

With overcurrent protection of 15 amps, this furnace may be served by a copper ground wire as small as #14. Special conditions may require a larger wire. See the National Electrical Code for details.

