

Parts Manual

for domestic and standard export ovens

Serial Number Code:

First Four Digits - Order of Production

Fifth Digit - Model Specific

Sixth & Seventh Digit - Month of Production

Eight & Ninth Digit - Year of Production

047270906 - Starting Serial Number and Higher

Serial Tag
Location

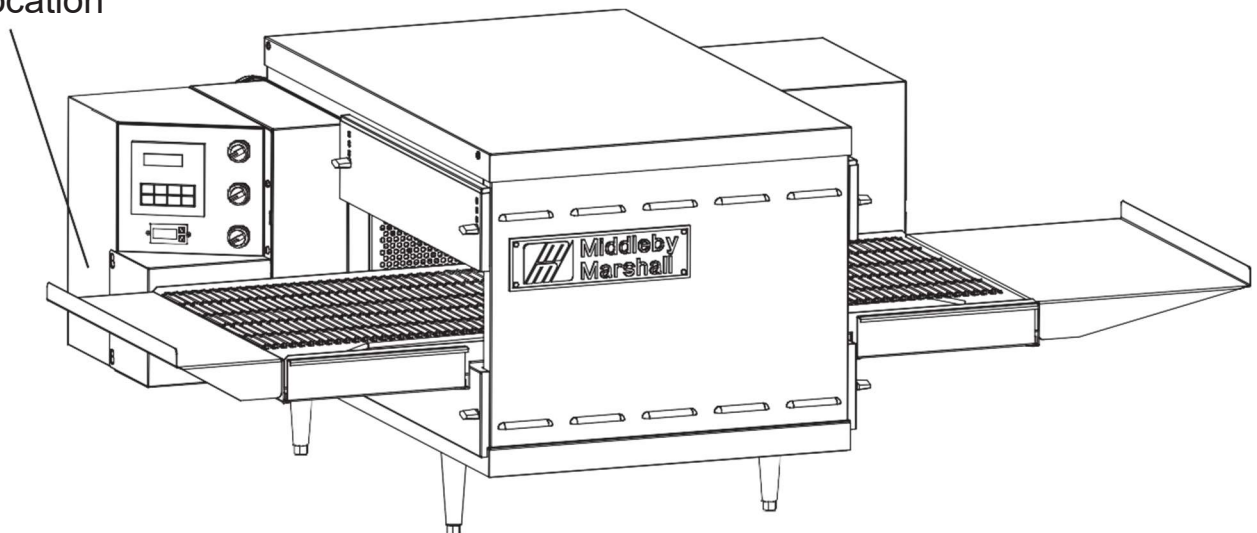


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WARNING
FOR YOUR SAFETY, DO NOT STORE OR
USE GASOLINE OR OTHER FLAMMABLE
VAPORS AND LIQUIDS IN THE VICINITY OF
THIS OR ANY OTHER APPLIANCE.

WARNING
Improper installation, adjustment, alteration,
service, or maintenance can cause property
damage, injury, or death. Read the
installation, operating, and maintenance
instructions thoroughly before installing or
servicing this equipment.

NOTICE
The warranty is NOT VALID unless the oven is installed, started, and demonstrated under the supervision of a factory-authorized installer

NOTICE
Contact your authorized Service Agency to perform maintenance and repairs. A Service Agency Directory is supplied with your oven.

NOTICE
Using any parts other than genuine Middleby Marshall factory-manufactured parts relieves the manufacturer of all warranty and liability.

NOTICE
Middleby Marshall (Manufacturer) reserves the right to change specifications at any time.

KEEP THIS MANUAL IN A VISIBLE LOCATION NEAR THE
OVEN FOR FUTURE REFERENCE.

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PS520G SERIES OVEN SPECIFICATIONS

Conveyor Belt Width	18.00" (457mm)
Heating Zone Length	20.00" (5098mm)
Baking Area Square Feet	2.5 sq ft (.023 sq. m.)
Overall Dimensions	
Standard Single Oven w/Legs	42.00" (1067mm) L x 35.21" (894mm) W x 21.10" (536mm) H x
Overall Dimensions	
Double Oven	42.00" (1067mm) L x 35.21" (894mm) W x 36.64" (931mm) H x
Overall dimensions	
Triple Oven	42.00" (1067mm) L x 35.21" (894mm) W x 48.19" (1224mm) H x
Weight of Single Oven	250 lbs (93.3kg)
Shipping Weight	325 lbs (121.3kg)
Shipping Cube	22.1 ft ³ (0.62 m ³)
Operating Range	8.3 kW/hr
Maximum Operating temperature	550°F (287°C)
Warm-up Time	20 min.
Belt Speed Limits	1-10 minutes

SERIES PS520 ELECTRICAL SPECIFICATIONS

	Main Blower & Elements Voltage	Control Circuit Voltage	Phase	Frequency	Amperage Draw	Poles	Wires
All Models	208-240V	208-240V	1 Ph	50/60 Hz	1.5 Amp	2 Pole	3 Wire (2 hot, 1 grd)

GAS ORIFICE AND PRESSURE SPECIFICATIONS (PER OVEN CAVITY) - DOMESTIC AND STANDARD EXPORT OVENS

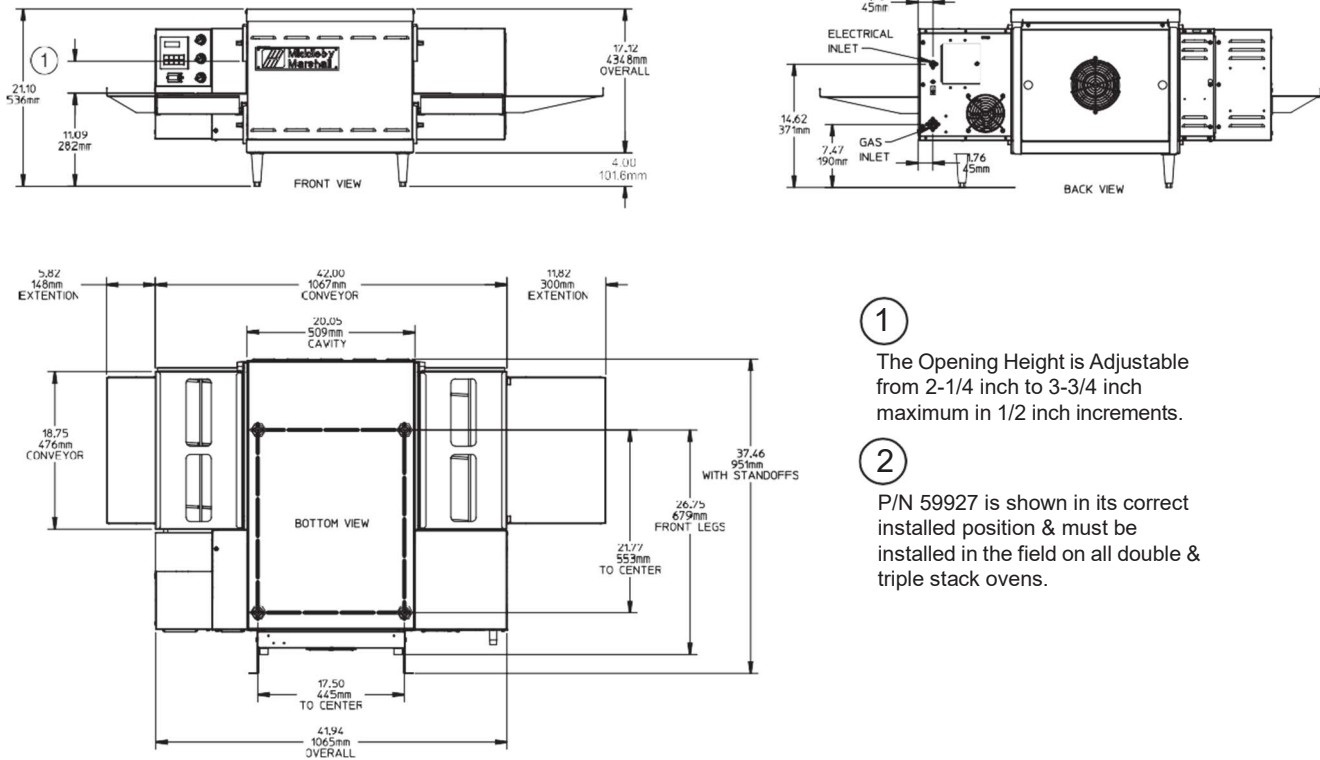
Gas Type	BTU	Main Orifice I.D.	Bypass Orifice I.D.	Supply (Inlet) Pressure	Orifice (Manifold) Pressure
Natural	40,000	0.082" (2.08mm, #45 drill)	0.073" (2.0574mm, #49 drill)	7-10" W.C. (17.4-24.9mbar)*	3.5" W.C. (8.72mbar)
Propane	40,000	0.057" (1.45mm, #46 drill)	0.052" (1.85mm, #55 drill)	9-12" W.C. (22.4-29.9mbar)	7" W.C. (17.44mbar)

* The gas supply pressures and orifices sizes shown are for ovens installed in North America. The required gas supply pressures and orifice sizes of ovens installed in other locations are dependant on the local gas type and on all applicable codes.

GAS ORIFICE AND PRESSURE SPECIFICATIONS (PER OVEN CAVITY) - DOMESTIC AND STANDARD EXPORT OVENS

Gas Type	Main Orifice dia.	UK, CH, IT, AT DK, FI I _{2H}	NL I _{2L}	DE I _{2E}	BE,FR I _{2E+}	SE, CH, AT, DK FI, DE, NL I _{3BP}	BE, IE, IT, PT, ES, UK I ₃₊	(Manifold) Pressure	Heat Input
G20	2.3749mm	20mbar	--	20mbar	20mbar	--	--	11.21mbar	22.36kW-hr
G25	2.3749mm	--	25mbar	--	--	--	--	16.19mbar	22.36kW-hr
G30	1.3970mm	--	--	--	--	29 or 50mbar	28-30, 37 or 50mbar	26.2mbar	22.59kW-hr

Figure 2-5. MODEL PS520 SINGLE OVEN DIMENSIONS



① The Opening Height is Adjustable from 2-1/4 inch to 3-3/4 inch maximum in 1/2 inch increments.

② P/N 59927 is shown in its correct installed position & must be installed in the field on all double & triple stack ovens.

Figure 2-6. MODEL PS520 DOUBLE OVEN DIMENSIONS

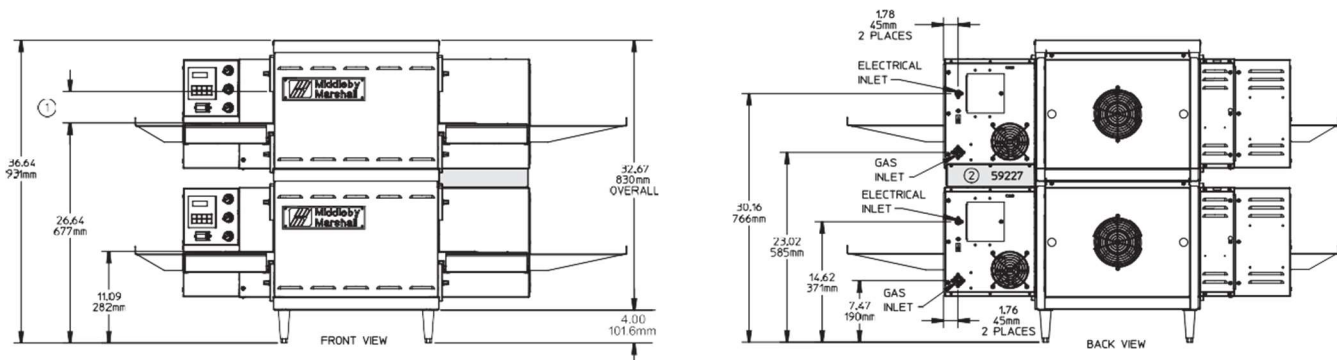


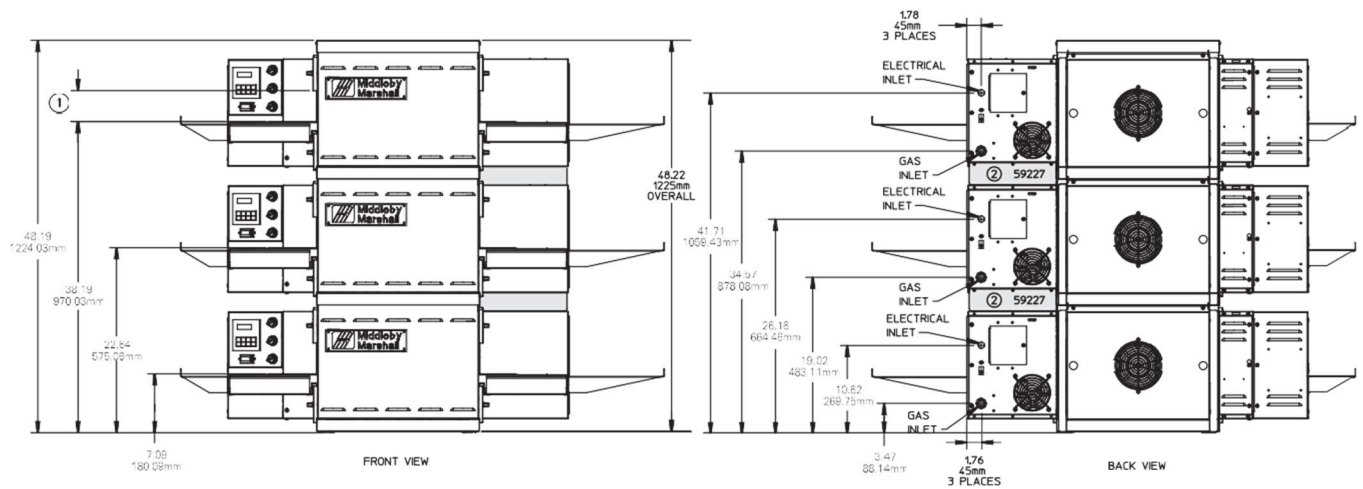
Figure 2-7. MODEL PS520 TRIPLE OVEN DIMENSIONS

①

The Opening Height is Adjustable from 2-1/4 inch to 3-3/4 inch maximum in 1/2 inch increments.

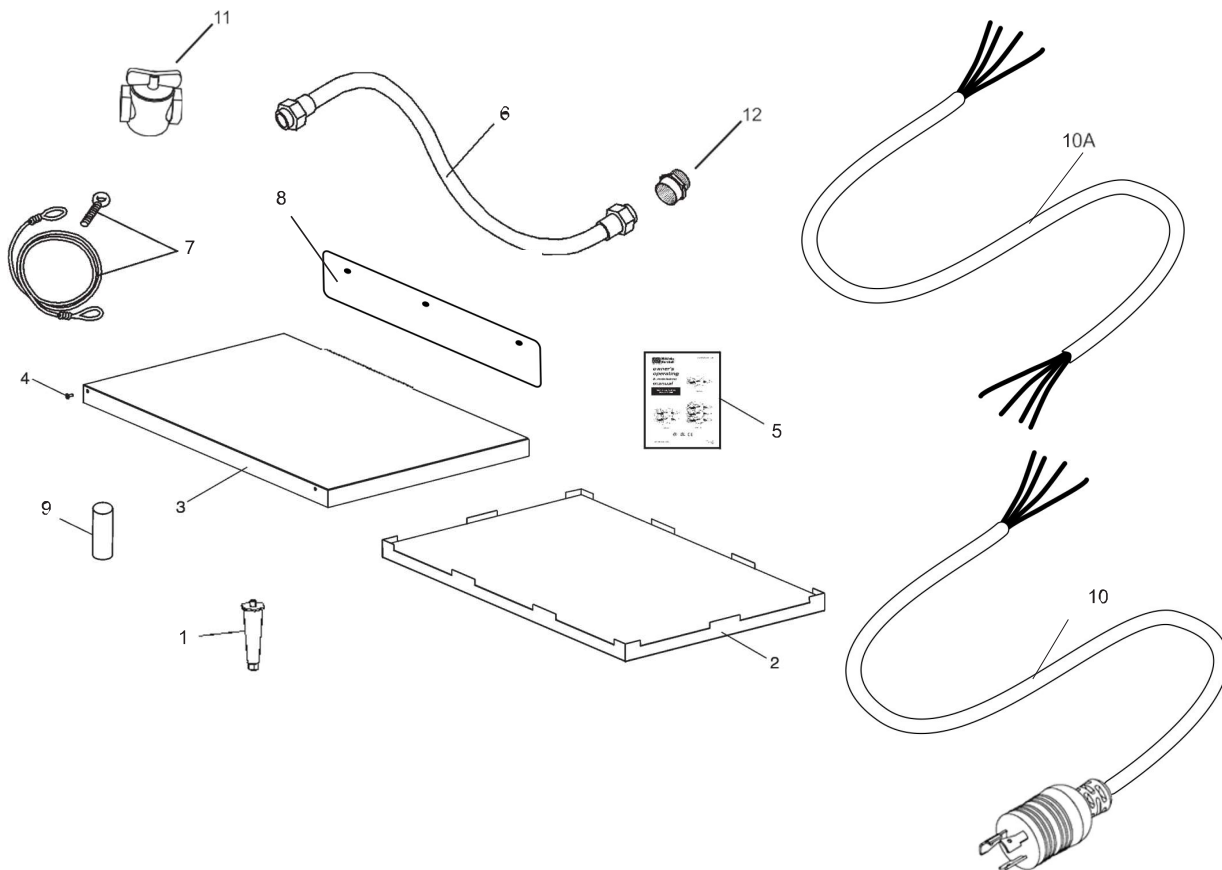
②

P/N 59927 is shown in its correct installed position & must be installed in the field on all double & triple stack ovens.



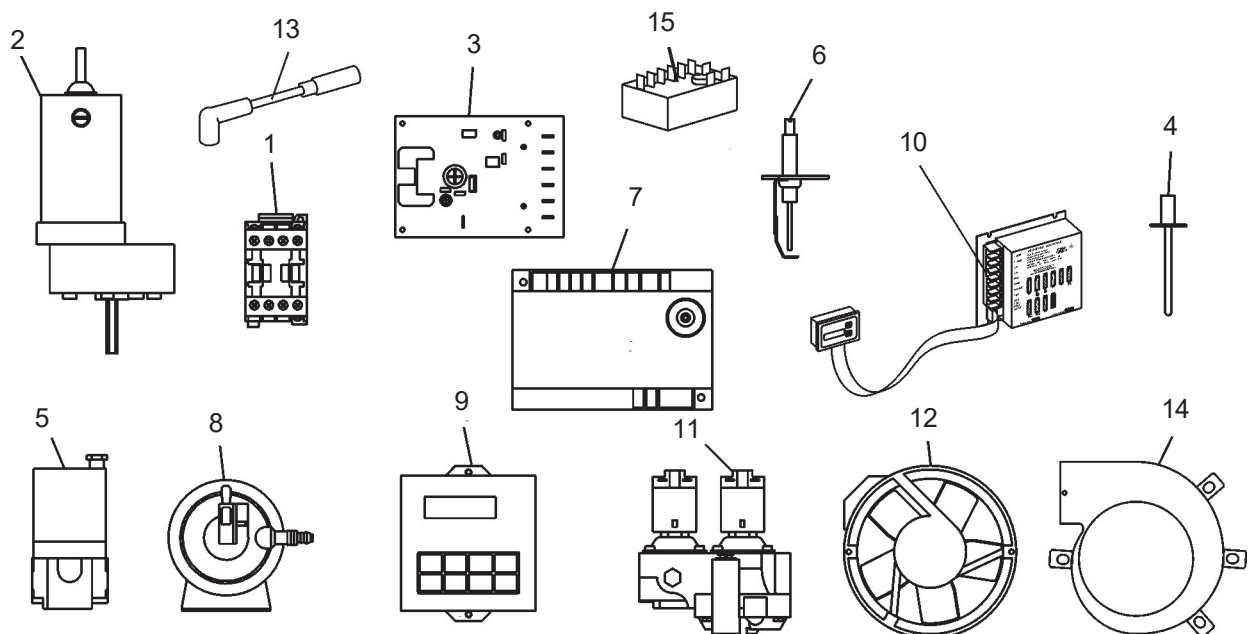
PARTS LIST FOR SERIES PS520 GAS OVEN **INSTALLATION KIT** **Single, Double and Triple Stack Ovens**

Kit #-->	Single 59182	Double 59183	Triple 59184		
Item NO.	QTY	QTY	QTY	PART NO.	DESCRIPTION
1	4	4	-	3101908	Leg 4"
2	1	1	1	48395	Bottom Tray w/insulation
3	1	1	1	48396	Top cover
4	4	4	4	51387	Screw MSSLT Thread 8-32 x 1/2, 18-8
5	1	1	1	59223	Installation & Operation Manual - English
6	1	2	3	22361-0001	Flexible gas hose 48"
7	1	1	1	22450-0228	Restraint Cable
8	-	1	2	59227	Guard - Heat (must be installed in field)
9	-	-	4	M3828	Pin - Alignment
10	1	2	3	49975	Cord & plug (L6-20P)
10A	1	2	3	49976	Cord only CE
11	1	2	3	23115-0009	Manual on/off gas valve
12	1	2	3	31823	3/4" to 1/2" NPT reducer

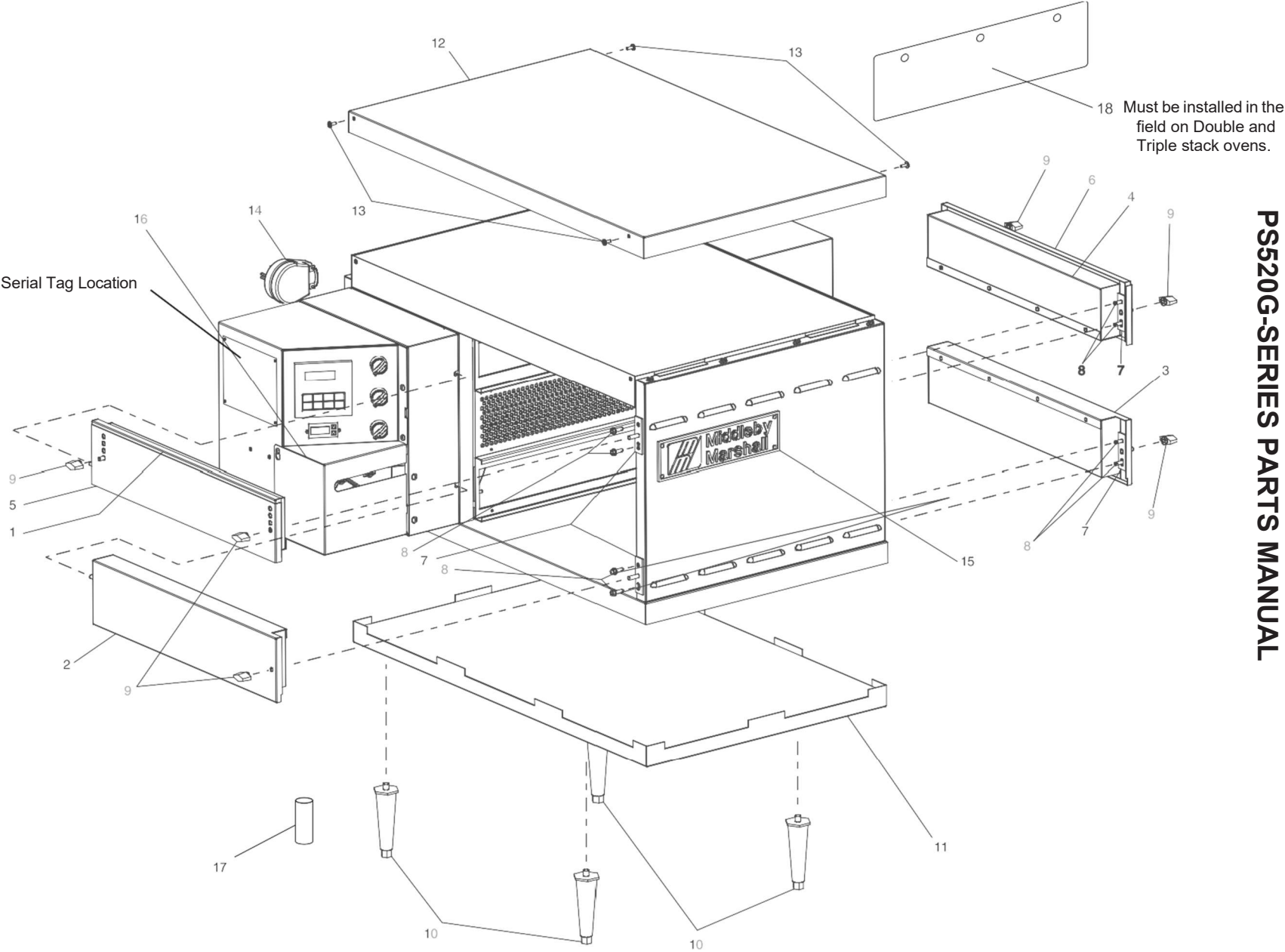


PS520-SERIES GAS OVEN KEY PARTS

ITEM	PART NO.	DESCRIPTION	QUANTITY
1	28041-0011	Contact, DP 25A 208/240V	1
2A	44695	Assy, Drive Motor	1
2B	74106	24VDC Motor, Gear	1
3	31651	Signal Amplifier Board	1
4	33812-8	Thermocouple, Type "J" Shielded 2.50" x 120"	3
5	59450	Valve, Module M420 (41647)	1
6	71037	Ignitor, Single Rod	1
7	78971	Ignition, Spark Module 24VAC 50/60Hz	1
8	60598	Switch, Air .13" W.C.	1
9	75729	Control, Combo 4-20MA	1
10A	64149	CNTRL, CONV Digital	1
10B	72533	CNTRL, Speed 24VDC Anaheim	1
11	59142	Valve, Gas PS520 - Nat Gas	1
12	36451	Fan, Cooling 230VAC 295 CFM	1
13	50240	Ignition Cable 25"	1
14	52244	Main Blower	2
15	33983	High Limit Module	1
16	76979	Power Supply	1
17	72533		
17A	74106		



Front View Of Oven

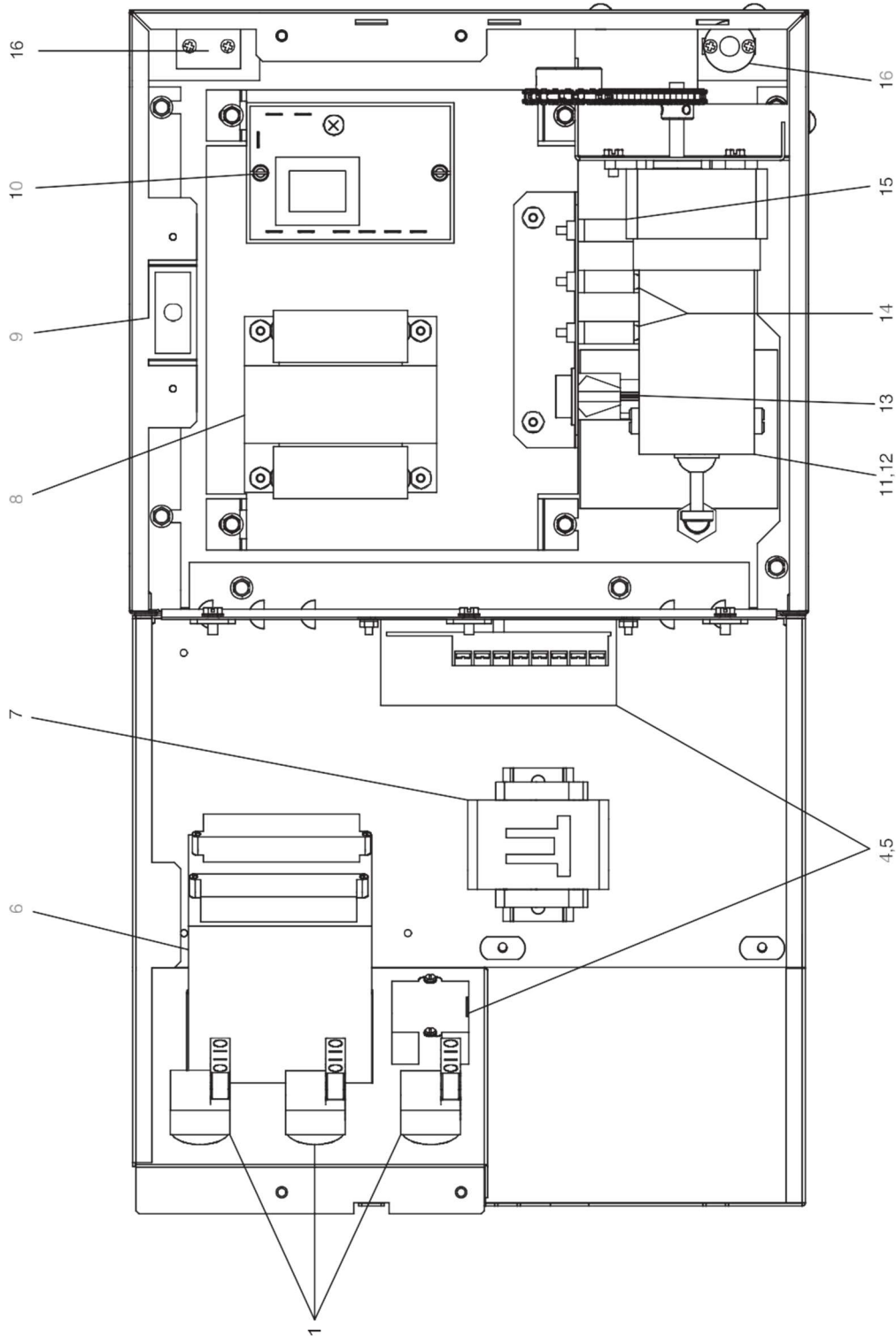


Parts For Front View Of Oven

ITEM	QTY	PART NO.	DESCRIPTION
1	1	67446	Upper LH End Plug Assembly, includes item 5 eyebrow
2	1	67451	Lower LH End Plug Assembly
3	1	67461	Lower RH End Plug Assembly
4	1	67456	Upper RH End Plug Assembly, includes item 6 eyebrow
5	1	62347	Eye brow, Upper LH End Plug Assembly
6	1	62346	Eye brow, Upper RH End Plug Assembly
7	4	51398	End Plug Mounting Bracket Assembly .875"
8	8	21296-0005	Screw, Hex Head, WSHHD 12-14x3/4 SS BSD
9	6	36452	Nut, Wing-Plastic 1/4-20
10	4	3101908	Leg, 4" ADJ FT (NPS)
11	1	48395	Bottom Tray Assembly
12	1	48396	Cover, Top
13	4	51387	Scr, MS, SLT THRD 8-32x1/2" 18-8
14A	1	49975	Cordset, L6-20P
14B	1	49976	Cord only (CE Models)
15	1	45739	Nameplate, Middleby Marshall
16	1	66461	Cover, Motor
17	4	M3828	Alignment Pin (Triple Stack)
18	1 or 2	59227	Guard, Heat (must be installed in the field on Double and Triple stack ovens)

PS520G-SERIES PARTS MANUAL

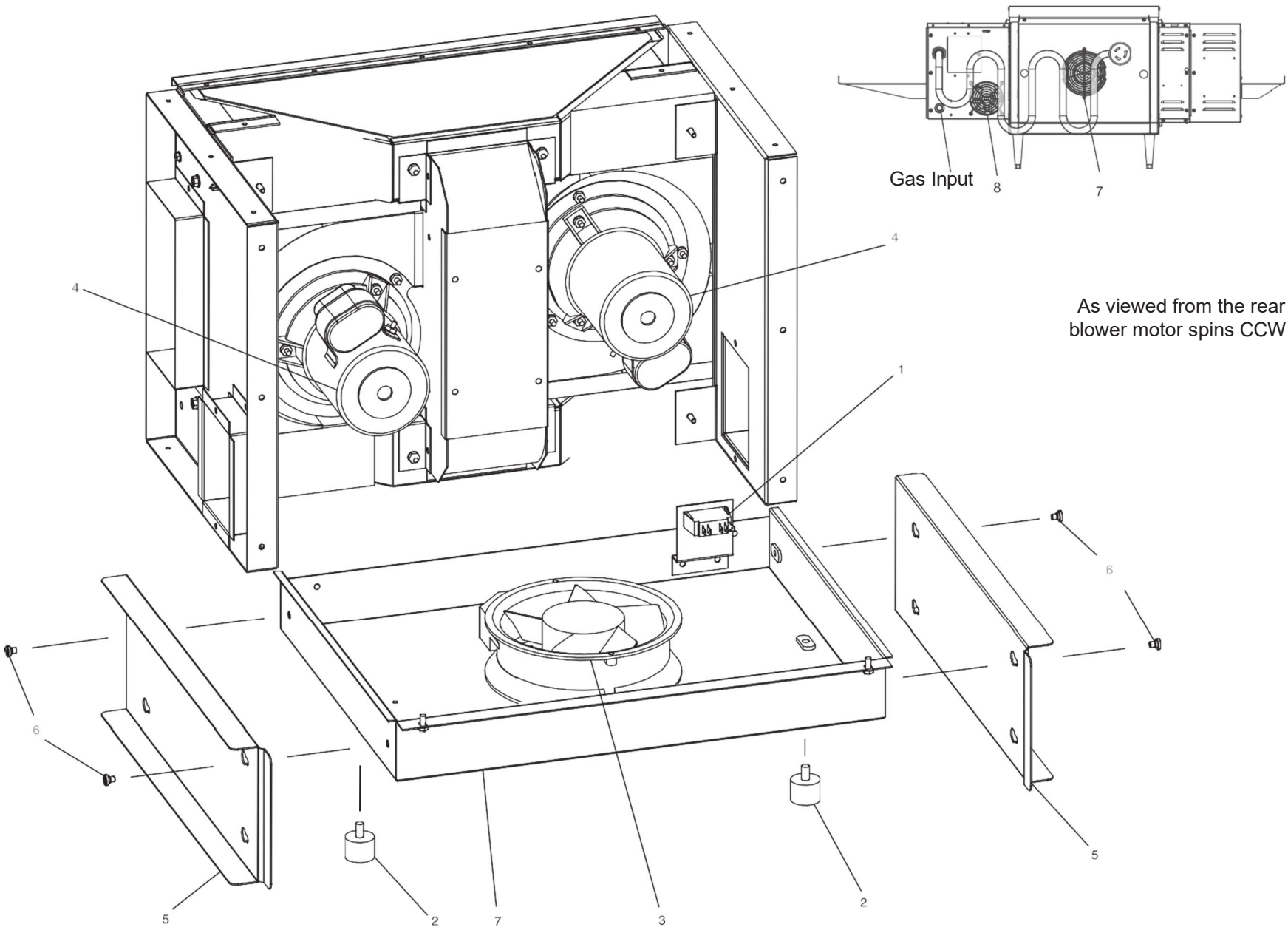
View of Left Hand Electrical Compartment



Parts For Left Hand Electrical Compartment

ITEM	QTY	PART NO.	DESCRIPTION
1	3	78159	Kit Blower Switch (Contains (1) 44697, (1) 44696)
4A	1	64149	CNTRL, CONV Digital
4B	1	72533	CNTRL, Speed 24VDC Anaheim
5	1	37503	Digital Speed Control (Display Only)
6	1	75279	Temperature Control (58504)
7	1	28041-0011	Contact, 208/240V-25A
8	1	31504	Transformer, 230V(P)/120(S), 200VA
9	1	63909	Switch, Interlock, 10A, NO 2 Pole
10	1	33983	Control, Electric, Hi-Limit, 240V
11A	1	44695	Assy, Drive Motor
11B	1	74106	24VDC Motor, Gear
12	1	22450-0249	Sensor-Conveyor Pick-up
13	1	35145	Switch, Push-button, Molveno, 250V
14	2	45036	Breaker, Circuit 240V, 3A
15	1	48635	Breaker, Circuit 240V, 0.3A
16	1 or 2	33812-8	Thermocouple, Type "j", Shielded, 2.5"x 20"

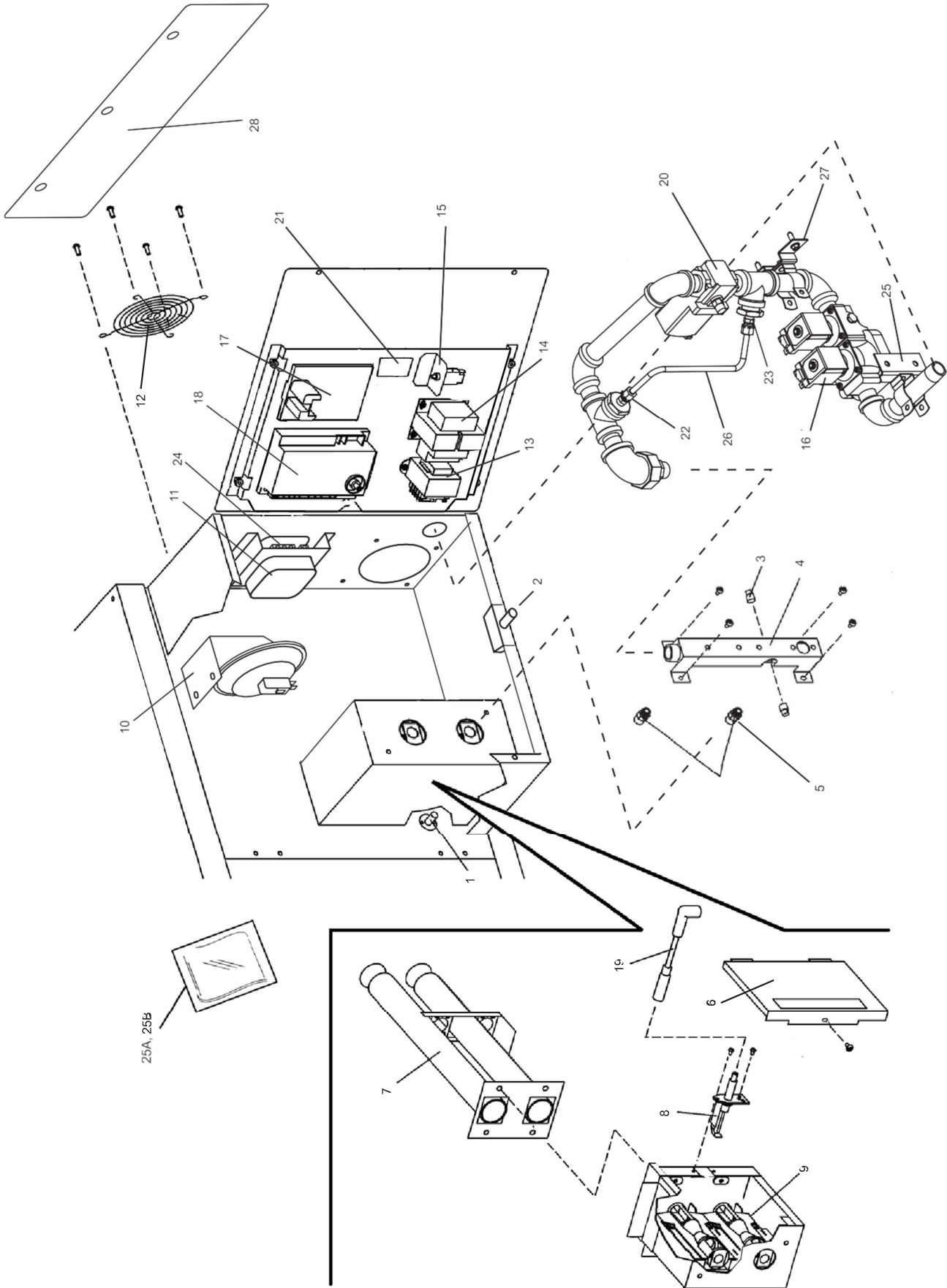
Rear View Of Blower Compartment



Parts For Rear View Blower Compartment

ITEM	QTY	PART NO.	DESCRIPTION
1	1	63910	Switch, Momentary-10A, NO 2 Pole
2	2	30927	Bumper, Window
3	1	36451	Fan, Cooling, 230V AC, 295 CFM
4	2	52244	Motor, Blower, CW, 208/230V 50/60 Hz With Blower Wheel
5	2	57258	Plate, Air Vent
6	4	7007413	SCR, Shoulder 10-32x3/4 18-8
7	1	31497	Guard-Cooling Fan
8	1	27470-0004	Guard - Right Hand Control Compartment

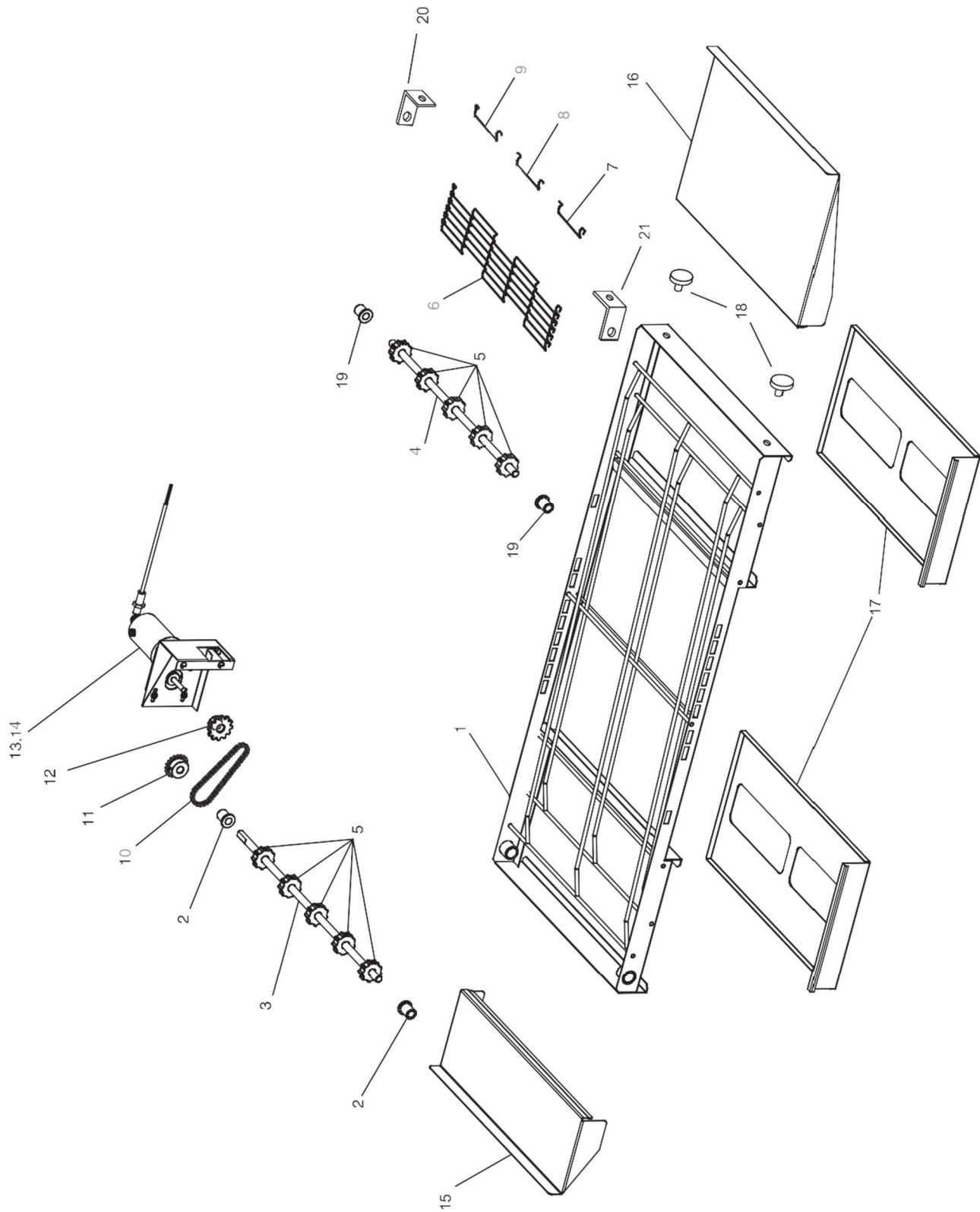
View Of Right Hand Of Electrical Compartment



Parts For Right Hand Electrical Compartment

ITEM	QTY	PART NO.	DESCRIPTION				
1	1 or 2	33812-8	Thermocouple, Type "J" Shielded 2.5" x 120"	16A	1	59416	Kit, Convert gas valve to NAT
2	1	63909	Switch, Interlock	16B	1	59415	Kit, Convert gas valve to LP
3	2	30002	Tap, Plug	17	1	31651	Amplifier Board
4	1	69324	Manifold	18	1	78971	Ignition Module
5A	2	59144	Main Orifice Natural #45 .082"	19	1	50240	Ignition Cable 25" (635mm)
5B	2	59143	Main Orifice Propane 0.057" (1.45mm)	20	1	59450	Modulating Gas Valve (41647)
6	1	59125	Cover Plate, Inshot Burner Housing	21	1	50794	Ignition Relay
7	1	72498	Assembly, Burner Tubes	22	2	44888	Fitting, Compression
8	1	71037	Ignitor	23A	1	59145	Orifice Bypass, Natural #49 .073"
9	2	59002	Burner, Inshot	23B	1	49948	Orifice Bypass, Propane 0.0520" #55
10	1	62044	Air Switch	24	1	44390	Terminal Block
11	1	33813	RFI Filter	25A	1	59146	LP to Nat Kit (includes 16A, 5A, 23A)
12	1	27470-0004	Fan Guard	25B	1	59147	Nat to LP Kit (includes 16B, 5B, 23B)
13	1	41872	Transformer 240V Pri, 24V Sec 25VA	26	1	59018	Bypass Tube
14	1	32108	Transformer 240V Pri, 24V Sec 65VA	27	1	59127	Pipe Assembly Clamp
15	1	45644	Circuit Breaker, 1 Amp	28	1	59227	Heat Guard
16	1	59142	Combo Gas Valve - Natural Gas	29	1	37000-0781	Pipe Clamp

View of Conveyor Parts



Parts For Conveyor			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	67349	Weldment
2	2	M4817	Bearing, Rulon
3	1	62295	Shaft, Drive
4	1	67357	Shaft, Idler
5	10	M4818	Sprocket, Wire Belt
6	1	59307	Belt, Wire, Stainless Steel, 18"x87-1/2"
7	1	58391	Kit, Master Link Front, Middle, Rear
10	1	55567	Assy, Chain High Speed w/Master Link
10a	1	310-1212	Master Link Only
11	1	55217	Sprocket, chain #25-20T-1/2" Conveyor Shaft
12	1	45349	Sprocket, 25B25 w/5/16" Bore - Drive Shaft
13A	1	44695	Assy, Drive Motor
13B	1	74106	24VDC Motor, Gear
14	1	22450-0249	Sensor-Conveyor Pick-up
15	1	59280	Extension, Conveyor - 6"
16	1	59272	Extension, Conveyor - 12"
17	2	51409	Pan, Crumb Vented - Shipped As Standard
18	2	59276	Screw Adjustment
19	2	59264	Bushing, Rulon - Idler
20	1	59267	Idler Guide - Back
21	1	59270	Idler Guide - Front

WARNING

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NOTICE

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Commercial Food Equipment Service Association

Middleby is proud to support the Commercial Food Equipment Service Association (CFESA). We recognize and applaud CFESA's ongoing efforts to improve the quality of technical service in the industry.

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