

PS640 Series Gas Ovens

Model:

- PS640G Gas

Combinations:

- Single Oven
- Double Oven (Two-Stack)
- Triple Oven (Three-Stack)

OWNER'S OPERATING AND INSTALLATION MANUAL

for domestic and standard export ovens

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NOTICE:

This Owner's Operating and Installation Manual should be given to the user. The operator of the oven should be familiar with the functions and operation of the oven.

This manual must be kept in a prominent, easily reachable location near the oven.

Ovens are shipped from the factory configured for use with natural gas. If permitted by local, national and international codes, at the time of installation the oven may be converted to propane gas operation. This conversion requires the use of a Gas Conversion Kit that is supplied with the oven. For CE-approved ovens, the conversion is described in the *Installation* section of this Manual. For domestic and standard export ovens, instructions are included in the Gas Conversion Kit.

It is suggested to obtain a service contract with a Middleby Marshall Authorized Service Agent.

WARNING

POST, IN A PROMINENT LOCATION, THE EMERGENCY TELEPHONE NUMBER OF YOUR LOCAL GAS SUPPLIER AND INSTRUCTIONS TO BE FOLLOWED IN THE EVENT YOU SMELL GAS.

Instructions to be followed in the event the user smells gas shall be obtained by consulting the local gas supplier. If the smell of gas is detected, immediately call the emergency phone number of your local Gas Company. They will have personnel and provisions available to correct the problem.

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, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

WARNING

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.

IMPORTANT

An electrical wiring diagram for the oven is located inside the machinery compartment.

IMPORTANT

It is the customer's responsibility to report any concealed or non-concealed damage to the freight company. Retain all shipping materials until it is certain that the equipment has not suffered concealed shipping damage.

NOTICE

CONTACT YOUR MIDDLEBY MARSHALL AUTHORIZED SERVICE AGENT TO INSTALL AND PERFORM MAINTENANCE AND REPAIRS AND IF NECESSARY TO CONVERT EQUIPMENT FOR USE WITH OTHER GASES. AN AUTHORIZED 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.

NOTICE

The equipment warranty is not valid unless the oven is installed, started and demonstrated under the supervision of a factory certified installer.

NOTICE

THIS EQUIPMENT IS ONLY FOR PROFESSIONAL USE AND SHALL BE USED BY QUALIFIED PERSONNEL.

RETAIN THIS MANUAL FOR FUTURE REFERENCE.

MIDDLEBY MARSHALL
NO QUIBBLE LIMITED WARRANTY
(U.S.A. ONLY)

MIDDLEBY MARSHALL, HEREINAFTER REFERRED TO AS "THE SELLER", WARRANTS EQUIPMENT MANUFACTURED BY IT TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR WHICH IT IS RESPONSIBLE. THE SELLER'S OBLIGATION UNDER THIS WARRANTY SHALL BE LIMITED TO REPLACING OR REPAIRING, AT SELLER'S OPTION, WITHOUT CHARGE, ANY PART FOUND TO BE DEFECTIVE AND ANY LABOR AND MATERIAL EXPENSE INCURRED BY SELLER IN REPAIRING OR REPLACING SUCH PART. SUCH WARRANTY SHALL BE LIMITED TO THE ORIGINAL PURCHASER ONLY AND SHALL BE EFFECTIVE FOR A PERIOD OF ONE YEAR FROM DATE OF ORIGINAL INSTALLATION, OR 18 MONTHS FROM DATE OF PURCHASE, WHICHEVER IS EARLIER, PROVIDED THAT TERMS OF PAYMENT HAVE BEEN FULLY MET.

This warranty is valid only if the equipment is installed, started, and demonstrated under the supervision of a factory-authorized installer.

Normal maintenance functions, including lubrication, cleaning, or customer abuse, are not covered by this **no quibble warranty**.

Seller shall be responsible only for repairs or replacements of defective parts performed by Seller's authorized service personnel. Authorized service agencies are located in principal cities throughout the contiguous United States, Alaska, and Hawaii. This warranty is valid in the 50 United States and is void elsewhere unless the product is purchased through Middleby International with warranty included.

The foregoing warranty is exclusive and in lieu of all other warranties, expressed or implied. There are no implied warranties of merchantability or of fitness for a particular purpose.

The foregoing shall be Seller's sole and exclusive obligation and Buyer's sole and exclusive remedy for any action, including breach of contract or negligence. In no event shall Seller be liable for a sum in excess of the purchase price of the item. Seller shall not be liable for any prospective or lost profits of Buyer.

This warranty is effective on Middleby Marshall equipment sold on, or after, February 15, 1995.

MIDDLEBY MARSHALL INC.
OVEN LIMITED WARRANTY
(Non U.S.A.)

The Seller warrants equipment manufactured by it to be free from defects in material and workmanship for which it is responsible. The Seller's obligation under this warranty shall be limited to replacing or repairing, at Seller's option, without charge, F.O.B. Seller's factory, any part found to be defective and any labor and material expense incurred by Seller in repairing or replacing such part. Such warranty is limited to a period of one year from date of original installation or 15 months from date of shipment from Seller's factory, whichever is earlier, provided that terms of payment have been fully met. All labor shall be performed during regular working hours. Overtime premium will be charged to the Buyer.

This warranty is not valid unless equipment is installed, started, and demonstrated under the supervision of a factory-authorized installer.

Normal maintenance functions, including lubrication, adjustment of airflow, thermostats, door mechanisms, microswitches, burners and pilot burners, and replacement of light bulbs, fuses and indicating lights, are not covered by warranty.

Any repairs or replacements of defective parts shall be performed by Seller's authorized service personnel. Seller shall not be responsible for any costs incurred if the work is performed by other than Seller's authorized service personnel.

When returning any part under warranty, the part must be intact and complete, without evidence of misuse or abuse, freight prepaid.

Seller shall not be liable for consequential damages of any kind which occur during the course of installation of equipment, or which result from the use or misuse by Buyer, its employees or others of the equipment supplied hereunder, and Buyer's sole and exclusive remedy against Seller for any breach of the foregoing warranty or otherwise shall be for the repair or replacement of the equipment or parts thereof affected by such breach.

The foregoing warranty shall be valid and binding upon Seller if and only if Buyer loads, operates and maintains the equipment supplied hereunder in accordance with the instruction manual provided to Buyer. Seller does not guarantee the process of manufacture by Buyer or the quality of product to be produced by the equipment supplied hereunder and Seller shall not be liable for any prospective or lost profits of Buyer.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER. SPECIFICALLY THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

The foregoing shall be Seller's sole and exclusive obligation and Buyer's sole and exclusive remedy for any action, whether in breach of contract or negligence. In no event shall seller be liable for a sum in excess of the purchase price of the item.

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NOTE

Wiring Diagrams are in Section 5 of this Manual.
The diagram for each oven is also on the lower
inner surface of its Control Console.

SECTION 1 – DESCRIPTION

I. OVEN USES

PS640 Series Ovens can be used to bake and/or cook a wide variety of food products, such as pizza, pizza –type products, cookies, sandwiches and others.

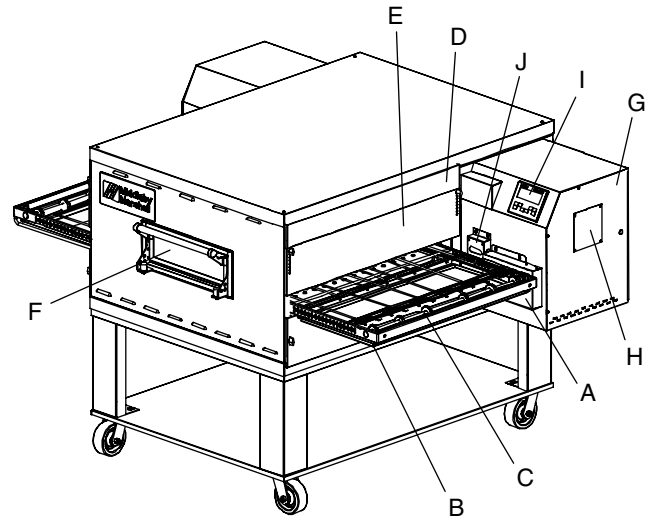
II. OVEN COMPONENTS – see Figure 1-1.

- A. **Conveyor Drive Motor:** Moves the conveyor.
- B. **Crumb Pans:** Catch crumbs and other materials that drop through the conveyor belt. One crumb pan is located at each end of the conveyor.
- C. **Conveyor:** Moves the food product through the oven.
- D. **End Plugs:** Allow access to the oven's interior.
- E. **Eyebrows:** Can be adjusted to various heights to prevent heat loss into the environment.
- F. **Window:** Allows the user to access food products inside the baking chamber.
- G. **Machinery Compartment Access Panel:** Allows access to the oven's interior and control components. No user serviceable parts are located in the machinery compartment.
- H. **Serial Plate:** Provides specifications for the oven that affect installation and operation. Refer to Section 2, [Installation](#) for details.
- I. **Control Panel:** Location of the operating controls for the oven. Refer to Section 3, [Operation](#), for details.
- J. **Photo Cell:** Turns oven On when beam is interrupted.

Not Shown:

- K. **Gas Burner (gas ovens):** Heat air, which is then projected to the air fingers by the blowers.
- L. **Blowers:** Project hot air from the burner or heating element to the air fingers.
- M. **Air Fingers:** Project streams of hot air onto the food product.

Figure 1-1. Oven Components



I. OVEN SPECIFICATIONS

Table 1-1 Dimensions	Single Oven	Double Oven	Triple Ove
Overall Height	48-3/16" (1219mm)	62-3/4" (1575mm)	78-11/16" (1981mm)
Overall Depth	60" (1524mm)	60" (1524mm)	60" (1524mm)
Overall Length	76-1/2" (1930mm)	76-1/2" (1930mm)	76-1/2" (1930mm)
Conveyor Width – belt width is 32"	33-1/2" (838mm) or 2 x 15" (381mm)	33-1/2" (838mm) or 2 x 15" (381mm)	33-1/2" (838mm) or 2 x 15" (381mm)
Shortened Exit Conveyor - 24"	Single Oven	Double Oven	Triple Ove
Overall Depth	52.75" (1340mm)	52.75" (1340mm)	52.75" (1340mm)
Overall Length	69" (1753mm)	69" (1753mm)	69" (1753mm)

* All other dimension are the same

Recommended Minimum Clearances			
Rear of Oven to Wall	3" (76mm)	3" (76mm)	3" (76mm)
Control end of conveyor to Wall	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)
Non-control end of conveyor to Wall)	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)

Table 1-2: General Specifications PS640 GAS	32" Belt	24" Belt
Weight	1150 lbs. (522kg)	1150 lbs. (522kg)
Rated Heat Input	99,000 BTU (25,000kcal, 29 kW/hr)	99,000 BTU (25,000kcal, 29 kW/hr)
Maximum Operation Temperature	600°F / 315°C	600°F / 315°C
Air Blowers	Two Blowers at 1900 RPM	Two Blowers at 1900 RPM
Warmup Time	15 min.	15 min.

Table 1-3: Electrical specifications for PS640G gas ovens						
Main Blower Voltage	Control Circuit Voltage	Phase	Freq	Current Draw	Poles	Wires
208-240VAC	208-240VAC	1Ph	50/60Hz	11-9.6 Amp	2 Pole	3 Wire (2 hot, 1 gd)

Table 1-4: Gas orifice and pressure specifications for PS640G gas ovens				
Gas Type	Main Orifice I.D. PS640G	Supply (Inlet) Pressure	Orifice (Manifold) Pressure	Bypass Pressure
Natural	0.1065" (0.120mm)	6-8" W.C. (14.9 - 19.9mbar)	3.5" W.C. (8.7mbar)	0.25-0.3" W.C. (0.6-0.8 mbar)
Propane	0.067" (1.9mm)	11-14" W.C. (27.4 - 34.9mbar)	10.0" W.C. (24.9mbar)	0.9-1.0" W.C. (2.2-2.5 mbar)

IMPORTANT – Additional electrical information is provided on the oven's serial plate, and on the wiring diagram inside the machinery compartment.

GAS ORIFICE AND PRESSURE SPECIFICATIONS (PER OVEN CAVITY) - CE OVENS

Gas Type	Main Orifice dia.	Supply (Inlet) Pressure						Orifice (Manifold) Pressure	Rated Heat Input
		IT,PT,ES,SE, 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 _{3B/P}	BE,IE,IT,PT, ES,UK I ₃₊		
G20	0.120" (3.05 mm)	20 mbar	--	20 mbar	20 mbar	--	--	11.21 mbar	22.36 kW-hr.
G25	0.120" (3.05 mm)	--	25 mbar	--	--	--	--	16.19 mbar	22.36 kW-hr.
G30	0.075" (1.9 mm)	--	--	--	--	29 or 50 mbar	28-30, 37 or 50 mbar	26.2 mbar	22.59 kW-hr.

NOTE
 Wiring Diagrams are contained in Section 5 of this Manual and are also located inside the oven at the bottom of the Control Panel.
 Additional electrical information is provided on the oven's serial plate.

This Manual Must Be Kept For Future Reference

SECTION 2 – INSTALLATION

WARNING – After any conversions, readjustments, or service work on the oven:

- Perform a gas leak test.
- Test for proper combustion and gas supply.
- Test for correct air supply, particularly to the burner blower.
- Check that the ventilation system is in operation.

WARNING - Keep the appliance area free and clear of combustibles.

WARNING – The oven must be installed on an even (level) non-flammable flooring and any adjacent walls must be non-flammable. Recommended minimum clearances are specified in the Description section of this manual.

WARNING – Do not obstruct the flow of combustion and ventilation air to and from your oven. There must be no obstructions around or underneath the oven. Constructional changes to the area where the oven is installed shall not affect the air supply to the oven.

CAUTION: To reduce the risk of fire, the appliance is to be mounted on floors of noncombustible construction with noncombustible flooring and surface finish and with no combustible material against the underside thereof, or on noncombustible slabs or arches having no combustible material against the underside thereof, such construction shall in all cases extend not less than 12 inches (304mm) beyond the equipment on all sides.

CAUTION: For additional installation information, contact your local Authorized Service Agent.

NOTE – There must be adequate clearance between the oven and combustible construction. Clearance must also be provided for servicing and for proper operation.

NOTE – An electrical wiring diagram for the oven is located inside the machinery compartment.

NOTE: All aspects of the oven installation, including placement, utility connections, and ventilation requirements, must conform with any applicable local, national, or international codes. These codes supersede the requirements and guidelines provided in this manual.

NOTE: In the USA, the oven installation must conform to local codes. In the absence of local codes, gas oven installations must conform with the National Fuel Gas Code, ANSI Z223.1. Gas and electric ovens, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code (NEC), or ANSI/NFPA70.

NOTE: In Canada, the oven installation must conform with local codes. In the absence of local codes, gas oven installations must conform with the Natural Gas Installation Code, CAN/CGA-B149.1, or the Propane Gas Installation Code, CAN/CGA-B149.2, as applicable. Gas and electric ovens, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the Canadian Electrical Code CSA C22.2.

NOTE: In Australia, the oven installation must conform with local codes. In the absence of local codes, gas oven installations must conform with the requirements of AS5601/AG601, Gas, Electricity, and any other relevant statutory regulations.

PS640 24" OVEN INSTALLATION REQUIRED KITS AND EQUIPMENT

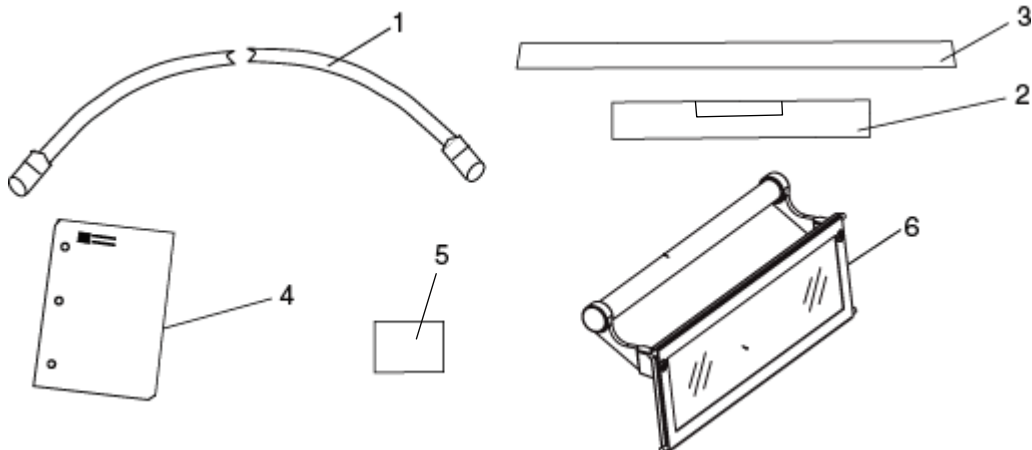
TYPE OF INSTALLATION	PS640 Gas Oven Installation Kit P/N61452	PS640 Single Oven Option Base w/ 15" Legs, Casters & Top Kit P/N61123	PS640 DoubleOven OptionBase w/ 6" Legs, Casters & Top Kit P/N61457	PS640 TripleOven OptionBase w/ Casters& Top Kit P/N61458
PS640 Single Gas Oven	1	1		
PS640 Double Gas Oven	2		1	
PS640 Triple Gas Oven	3			1

PARTS LIST FOR SERIES PS640 GAS OVEN INSTALLATION KIT P/N 61452

(Two required for double oven)
(Three required for triple oven)

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	22361-0001	FLEXIBLE GAS HOSE
2	1	61823	CONVEYOR END STOP, 18"
3	1	31461	CONVEYOR LEFT REAR STOP, 21.25"
4	1	42612	SERVICE AGENCY DIRECTORY
5	1	22500-0080	LABEL, MM
6	1	51054	ASSY, HANDLE & DOOR

Figure 2-1A. PS640-Series Gas Oven Installation Parts



PS640 32" OVEN INSTALLATION REQUIRED KITS AND EQUIPMENT

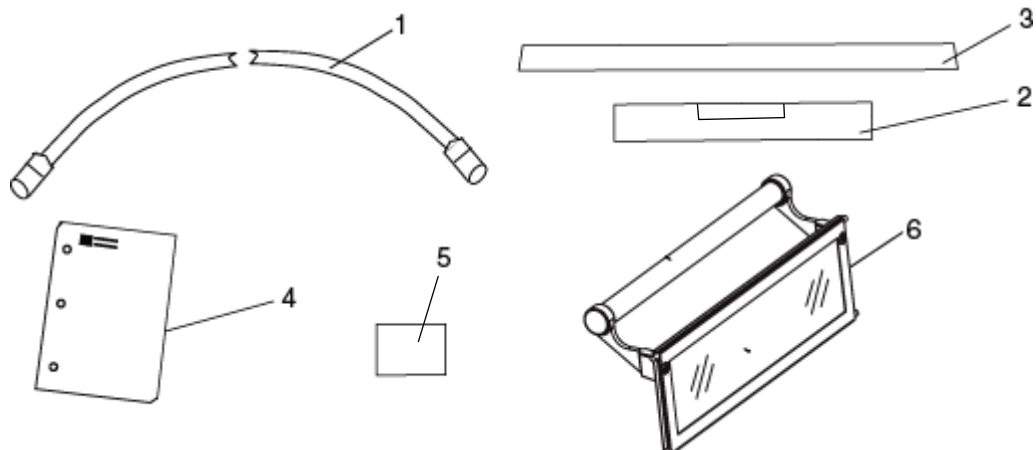
TYPE OF INSTALLATION	PS640 Gas Oven Installation Kit P/N61033	PS640 Single Oven Option Base w/ 15" Legs, Casters & Top Kit P/N59720	PS640 DoubleOven OptionBase w/ 6" Legs, Casters & Top Kit P/N59725	PS640 TripleOven OptionBase w/ Casters& Top Kit P/N59726
PS640 Single Gas Oven	1	1		
PS640 Double Gas Oven	2		1	
PS640 Triple Gas Oven	3			1

PARTS LIST FOR SERIES PS640 GAS OVEN INSTALLATION KIT P/N 61033

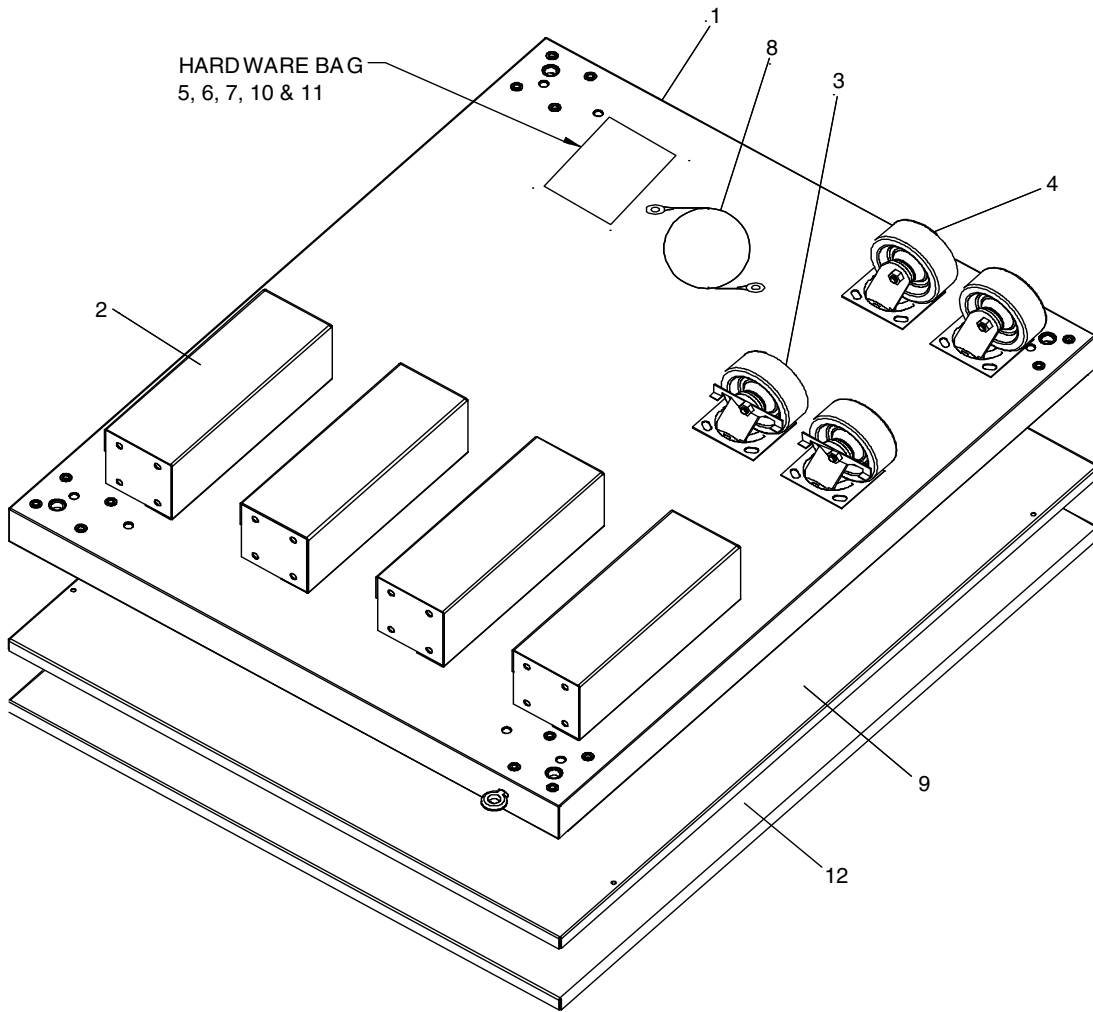
(Two required for double oven)
(Three required for triple oven)

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	22361-0001	FLEXIBLE GAS HOSE
2	1	61823	CONVEYOR END STOP
3	1	55027	CONVEYOR LEFT REAR STOP
4	1	42612	SERVICE AGENCY DIRECTORY
5	1	22500-0080	LABEL, MM
6	1	51054	ASSY, HANDLE & DOOR

Figure 2-1B. PS640-Series Gas Oven Installation Parts



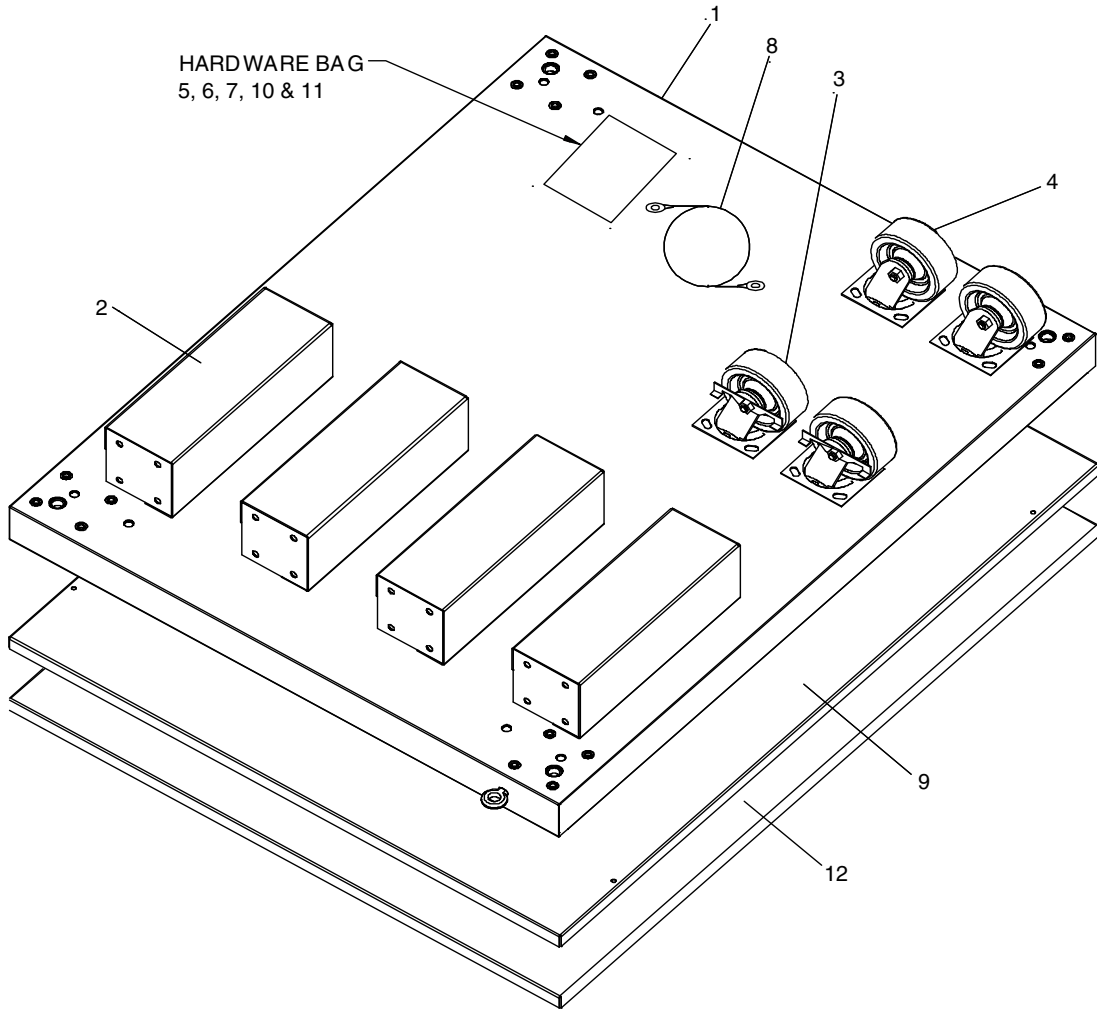
**Figure 2-2A. Model PS640 24" Single Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 SERIES 24" SINGLE OVEN OPTION - BASE w/15" LEGS & TOP
P/N 61123**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	61126	COMPLETE BASE WELDMENT
2	4	37900-0024	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1" HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	61125	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	61128	SUPPORT, SHELF

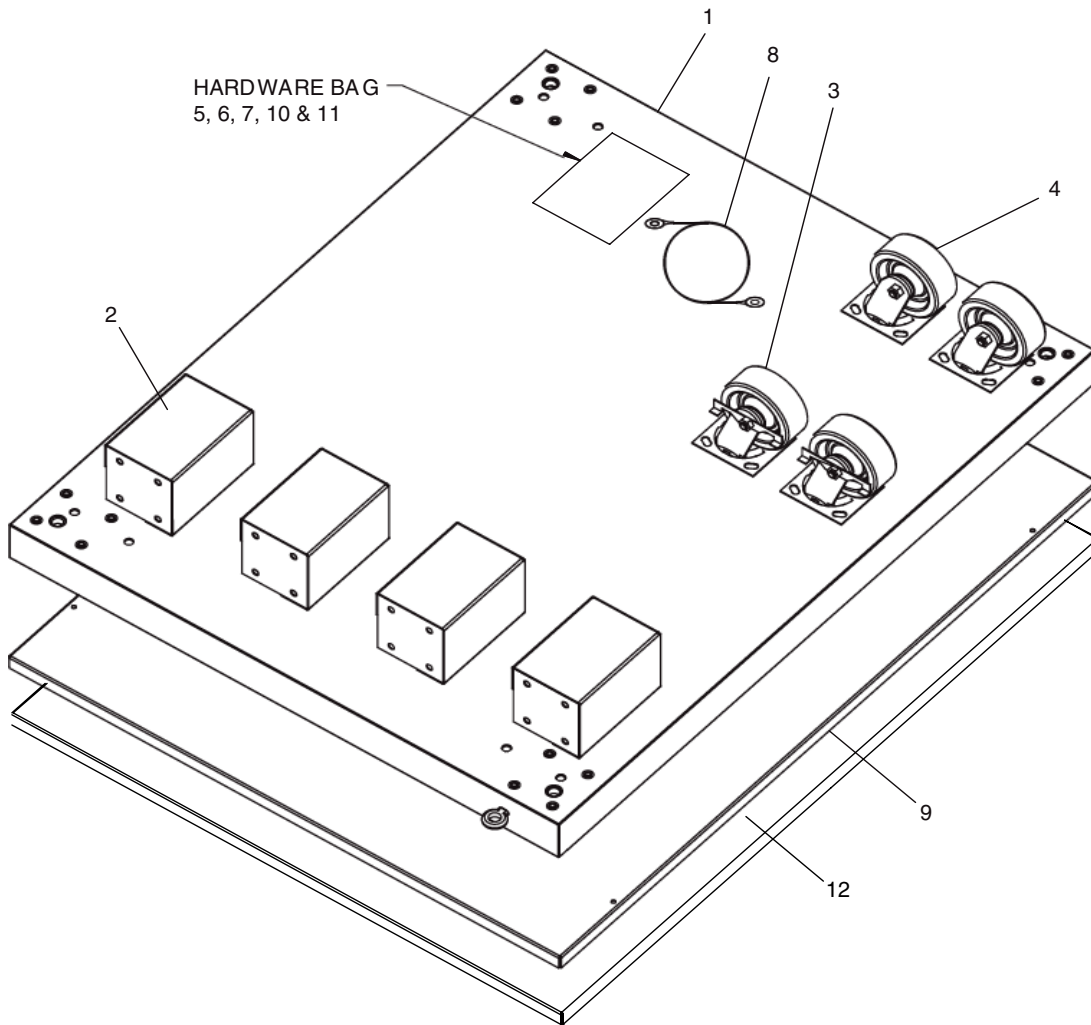
**Figure 2-2B. Model PS640 32" Single Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 32" SERIES SINGLE OVEN OPTION - BASE w/15" LEGS & TOP
P/N 59720**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	60287	COMPLETE BASE WELDMENT
2	4	37900-0024	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1" HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	59560	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	59724	SUPPORT, SHELF

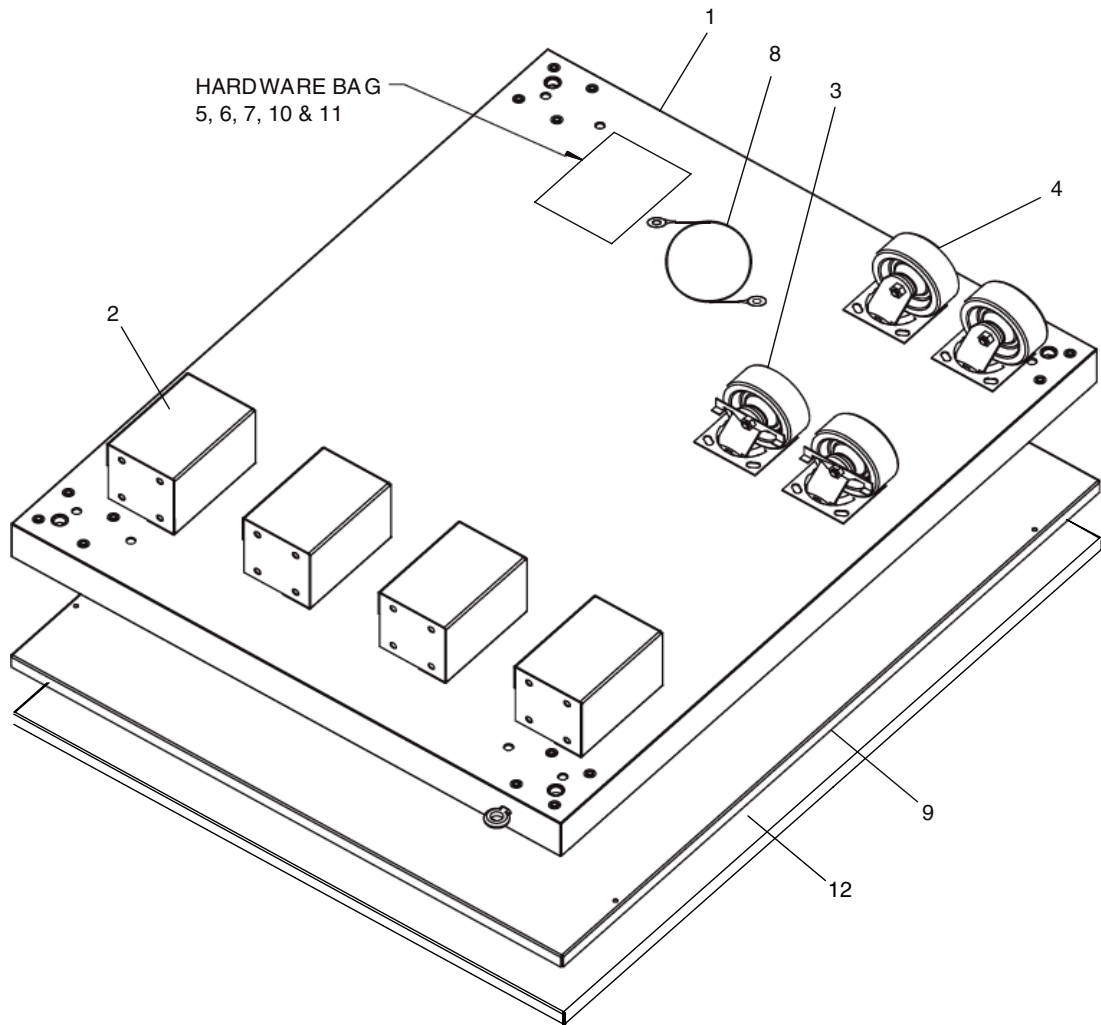
**Figure 2-3A. Model PS640 24" Double Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 SERIES 24" DOUBLE OVEN OPTION - BASE w/6" LEGS & TOP
P/N 61457**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	61126	COMPLETE BASE WELDMENT
2	4	37900-0102	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1 HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	61125	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	61128	SUPPORT, SHELF

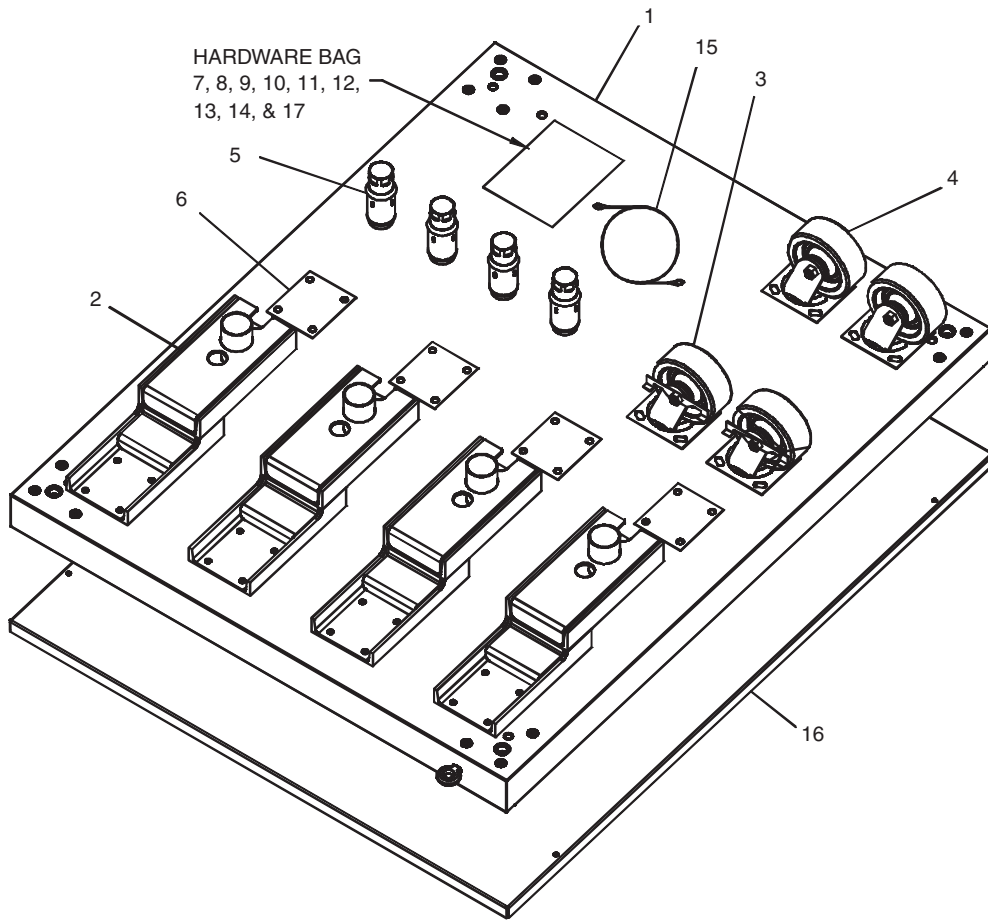
**Figure 2-3B. Model PS640 32" Double Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 SERIES 32" DOUBLE OVEN OPTION - BASE w/6" LEGS & TOP
P/N 59725**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	60287	COMPLETE BASE WELDMENT
2	4	37900-0102	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1 HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	59560	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	59724	SUPPORT, SHELF

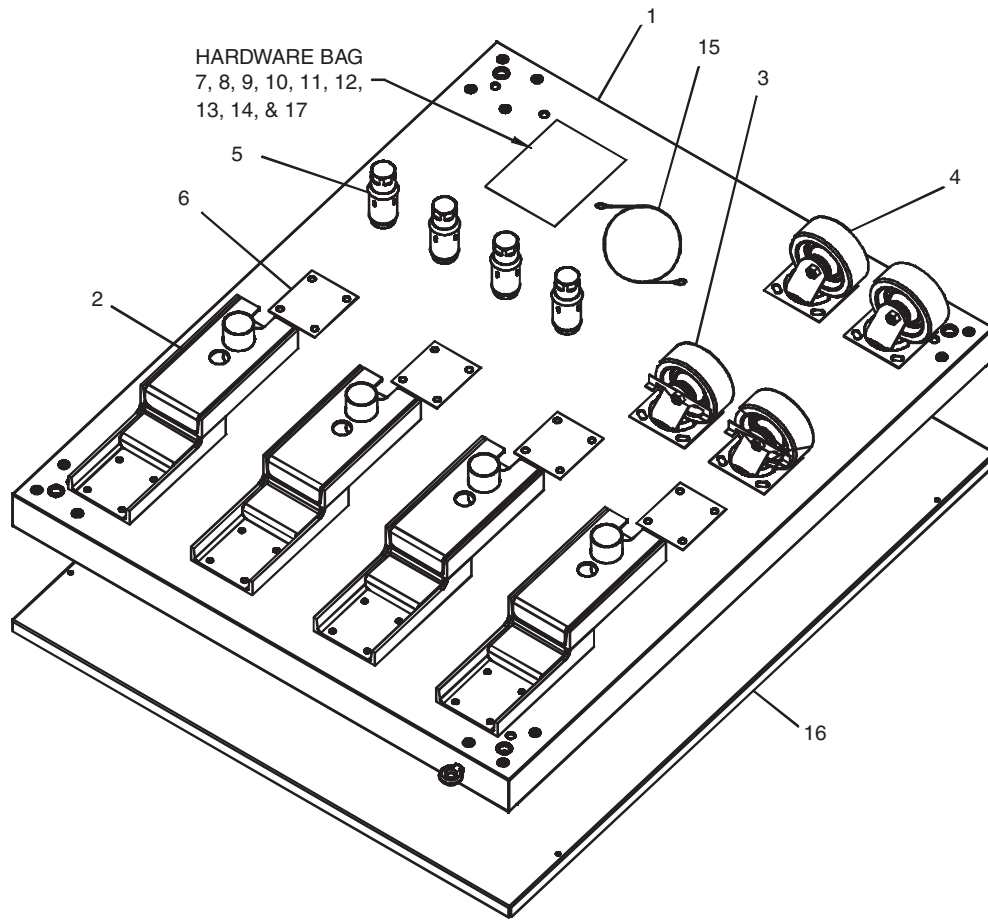
**Figure 2-4A. Model PS640 24" Triple Oven
Option Base with Outriggers and Top**



**PARTS LIST FOR PS640 SERIES 24" TRIPLE OVEN OPTION - BASE w/CASTERS & TOP
P/N 61458**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	61126	COMPLETE BASE WELDMENT
2	4	45209	QUAD OUTRIGGER WELDMENT
3	2	22290-0009	SWIVEL CASTER, W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER, FLAT PLATE
5	4	45206	INSERT,QUAD ADJUSTMENT FOOT
6	4	45205	SPACER,QUAD CASTER
7	32	A27727	3/83 -16x1-1/4 HEX BOLT
8	32	A21924	3/83 FLAT WASHER, SS
9	32	21422-0001	3/83 SPLIT LOCK WASHER, ZP
10	16	21172-0004	3/83 -16 NYLON INSULATED LOCKNUT, ZC
11	8	2001048	1/23 -13 x 1-3/8 18-8 HEX CAPSCREW
12	8	A27750	1/23 18-8 FLAT WASHER
13	8	21422-0016	1/23 18-8 LOCK WASHER
14	2	59677	SCR, MS SL TR HD 10-32X2-1/2
15	1	22450-0228	RESTRAINT CABLE ASSEMBLY
16	1	61125	TOP COVER
17	2	7A2S15	SCR, MS STR TRSHD 10-32X3/4"

**Figure 2-4B. Model PS640 32" Triple Oven
Option Base with Outriggers and Top**



**PARTS LIST FOR PS640 SERIES 32" TRIPLE OVEN OPTION - BASE w/CASTERS & TOP
P/N 59726**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	60287	COMPLETE BASE WELDMENT
2	4	45209	QUAD OUTRIGGER WELDMENT
3	2	22290-0009	SWIVEL CASTER, W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER, FLAT PLATE
5	4	45206	INSERT,QUAD ADJUSTMENT FOOT
6	4	45205	SPACER,QUAD CASTER
7	32	A27727	3/83 -16x1-1/4 HEX BOLT
8	32	A21924	3/83 FLAT WASHER, SS
9	32	21422-0001	3/83 SPLIT LOCK WASHER, ZP
10	16	21172-0004	3/83 -16 NYLON INSULATED LOCKNUT, ZC
11	8	2001048	1/23 -13 x 1-3/8 18-8 HEX CAPSCREW
12	8	A27750	1/23 18-8 FLAT WASHER
13	8	21422-0016	1/23 18-8 LOCK WASHER
14	2	59677	SCR, MS SL TR HD 10-32X2-1/2
15	1	22450-0228	RESTRAINT CABLE ASSEMBLY
16	1	59560	TOP COVER
17	2	7A2S15	SCR, MS STR TRSHD 10-32X3/4"

III. VENTILATION SYSTEM

IMPORTANT

Where national or local codes require the installation of fire suppression equipment or other supplementary equipment, **DO NOT** mount the equipment directly to the oven.

MOUNTING SUCH EQUIPMENT ON THE OVEN MAY:

- **VOID AGENCY CERTIFICATIONS**
- **RESTRICT SERVICE ACCESS**
- **LEAD TO INCREASED SERVICE EXPENSES FOR THE OWNER**

A. Requirements

CAUTION: Gas oven installations REQUIRE a mechanically driven ventilation system with electrical exhaust air sensing control.



A mechanically driven ventilation system is STRONGLY RECOMMENDED for electric oven installations.

PROPER VENTILATION OF THE OVEN IS THE RESPONSIBILITY OF THE OWNER.

B. Recommendations

NOTE THAT THE HOOD DIMENSIONS SHOWN IN FIGURE 2-5 ARE RECOMMENDATIONS ONLY. LOCAL, NATIONAL AND INTERNATIONAL CODES MUST BE FOLLOWED WHEN INSTALLING THE VENTILATION SYSTEM. ANY APPLICABLE CODES SUPERSEDE THE RECOMMENDATIONS SHOWN IN THIS MANUAL. IN AUSTRALIA COMPLIANCE TO REGULATIONS AS5601/AG601 IS MANDATORY.

The rate of air flow exhausted through the ventilation system may vary depending on the oven configuration and hood design. Consult the hood manufacturer or ventilation engineer for these specifications.

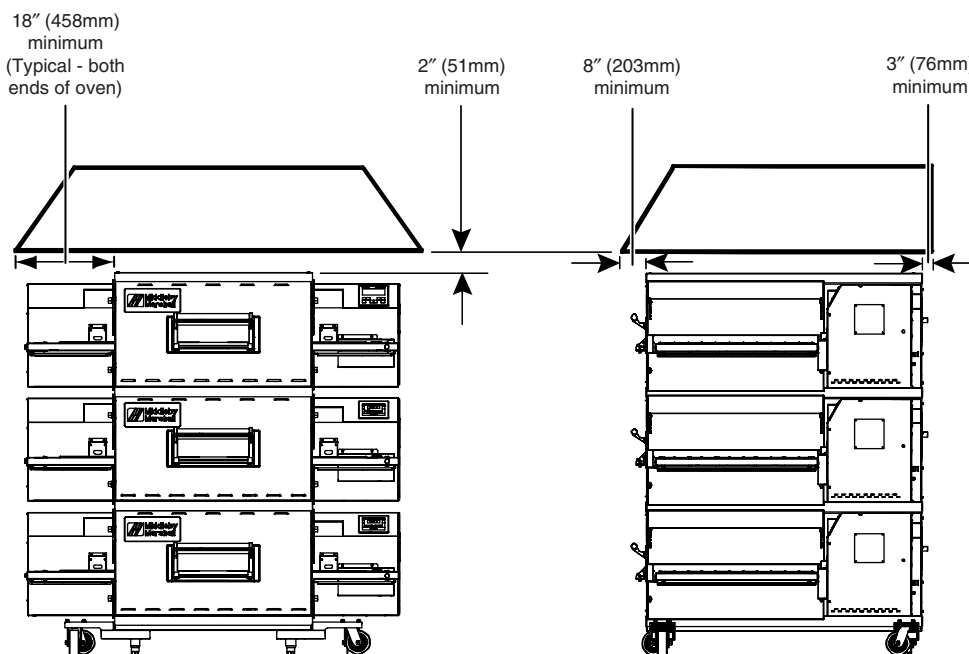
To avoid a negative pressure condition in the kitchen area, return air must be brought back to replenish the air that was exhausted. A negative pressure in the kitchen can cause heat-related problems to the oven components as if there were no ventilation at all. The best method of supplying return air is through the heating, ventilation and air conditioning (HVAC) system. Through the HVAC system, the air can be temperature-controlled for summer and winter. Return air can also be brought in directly from outside the building, but detrimental effects can result from extreme seasonal hot and cold temperatures from the outdoors.

NOTE: Return air from the mechanically driven system must not blow at the opening of the baking chamber. Poor oven baking performance will result.

C. Other ventilation concerns

- Special locations, conditions, or problems may require the services of a ventilation engineer or specialist.
- Inadequate ventilation can inhibit oven performance.
- It is recommended that the ventilation system and duct work be checked at prevailing intervals as specified by the hood manufacturer and/or HVAC engineer or specialist.

Figure 2-5. Ventilation System



IV. ASSEMBLY

A. Top Panel and Base Pad Assembly

1. Install the four leg extensions onto the base pad using the 3/8"-16 x 1" screws, 3/8" flat washers, and 3/8" lockwashers supplied in the Base Pad Kit. See Figure 2-6. Check that the finished sides of each leg extension face OUTWARDS. One rear leg should be attached using three 3/8"-16 x 1" screws and the 3/4" eyebolt, as shown in Figure 2-6. This eyebolt acts as the anchor point for the restraint cable assembly (see Part C, Restraint Cable Installation).
2. If your oven is equipped with the lower shelf, position it in place as shown in Figure 2-6. Check that the lip on the shelf faces DOWN. Seal joint between leg and shelf with NSF listed silicone.
3. Install one caster onto each leg extension, as shown in Figure 2-7. Use the 3/8"-16 x 1" screws, 3/8" flat washers, and 3/8" lockwashers supplied in the Installation Kit. The locking casters should be installed at the FRONT of the oven. The non-locking casters should be installed at the REAR of the oven.
4. Install the lower oven cavity onto the base pad. See Fig 2-7.
5. For single ovens ONLY:

Install the top panel using the screws included in the base pad kit, as shown in Figure 2-8. Then, skip ahead to Part C, Restraint Cable Installation.

For double or triple ovens:

Continue on to Part B, Stacking. Note that the top panel should NOT be installed for double and triple ovens until after stacking the oven cavities.

Figure 2-6. Leg extension and casters installation

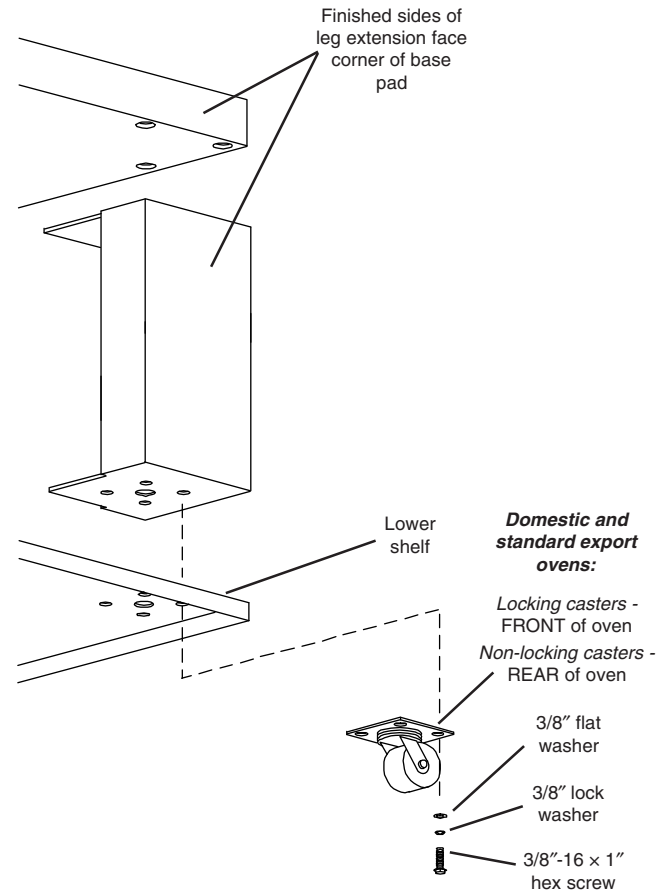


Figure 2-7. Base pad Installation

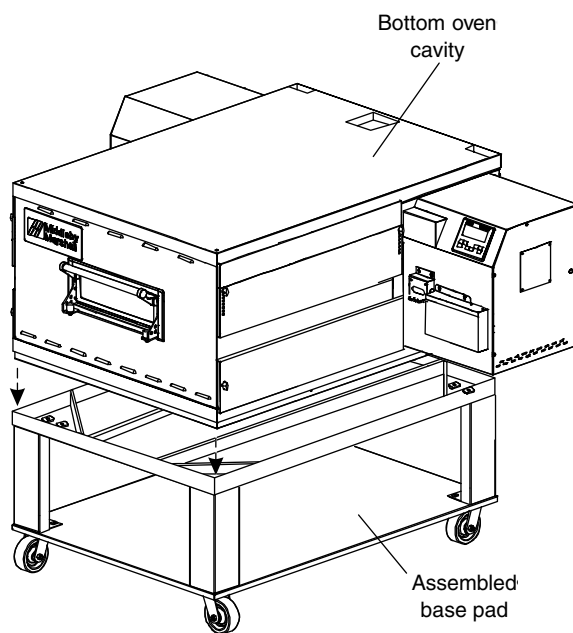
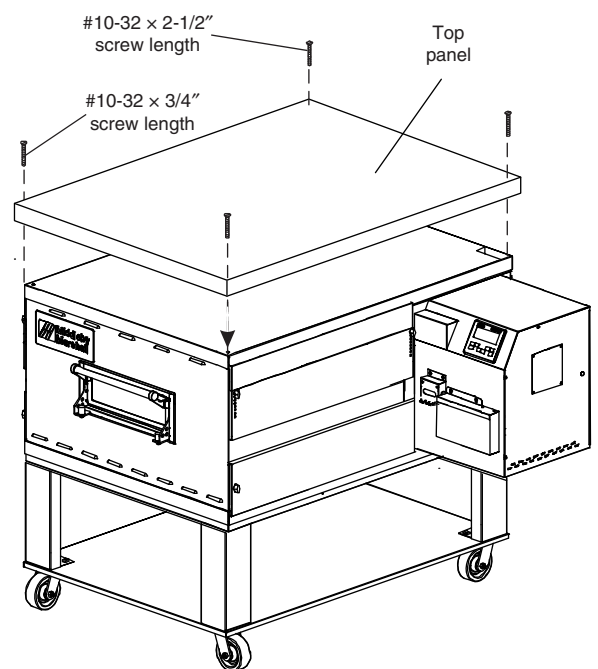


Figure 2-8. Top panel installation



NOTE: DO NOT install top panel onto double or triple ovens until AFTER stacking the oven cavities. See Part B, Stacking.

B. Stacking

For single ovens, skip ahead to Part C, Restraint Cable Installation.

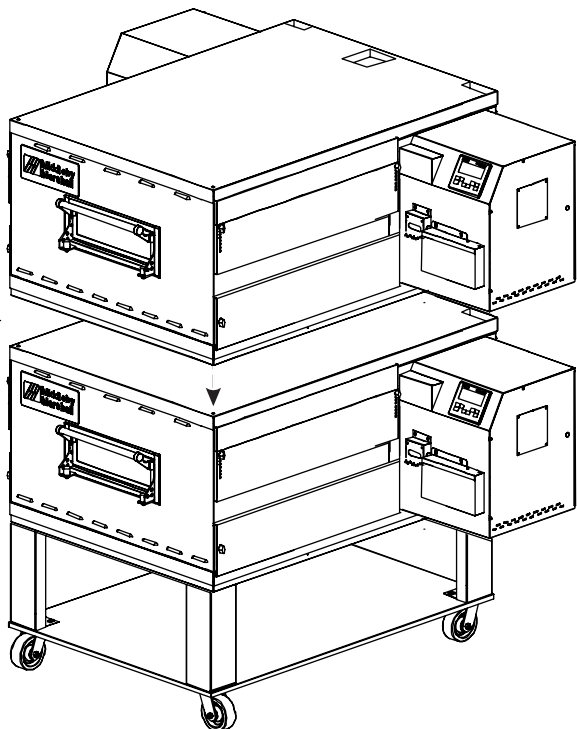
IMPORTANT

Middleby Marshall STRONGLY RECOMMENDS that PS840 Gas oven cavities be stacked BY AUTHORIZED PERSONEL.

Contact your Middleby Marshall Authorized Service Agent for complete stacking instructions.

- Stack an oven cavity on top of the lower oven. Check the following:
 - All four sides of the lower lip (on the bottom edge of the oven cavity) overlap the top of the lower oven
 - The oven is level
 - The oven is firmly seated
- See Figure 2-9.
- For triple ovens, repeat Step 1 to install the top oven cavity.
 - Install the top panel using the screws included in the base pad kit, as shown in Figure 2-10.

Figure 2-9. Stacking



C. Restraint Cable Installation

Because the oven is equipped with casters, a restraint cable assembly must be installed to limit the movement of the appliance without depending on the connector and the quick disconnect device or its associated piping. One end of the cable is anchored to the eyebolt on the rear surface of the oven's base pad, while the other is anchored to the wall. See Figure 2-11. After connecting the restraint cable, move the oven to its final location. Adjust the bottom (hex) sections of the feet so that the casters are off the floor. For quad ovens, lock the two front casters.

Figure 2-10. Top panel installation

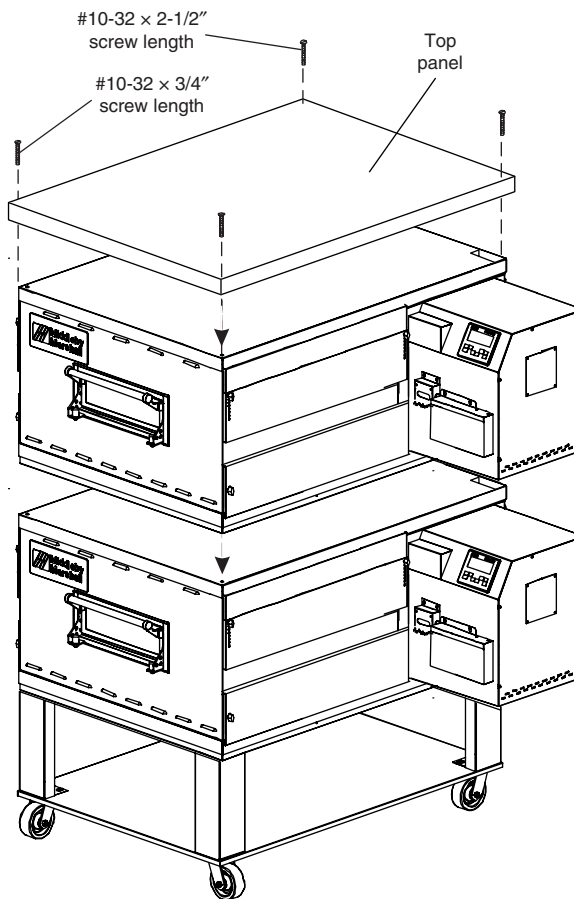
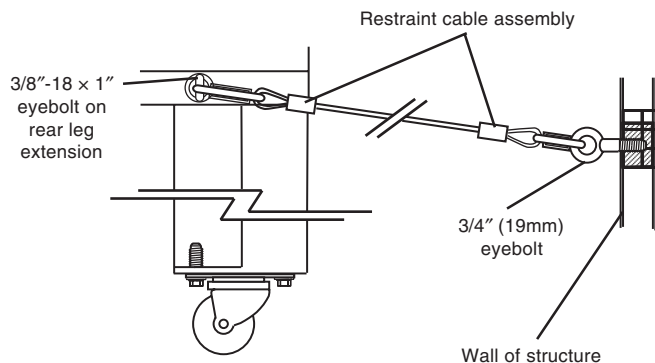


Figure 2-11. Installing the Restraint Cable



D. Conveyor Installation

1. Unfold the conveyor as shown in Figure 2-12. Then, begin to slide the conveyor into the end of the oven. The conveyor can only be installed from the end of the oven with the drive motor.
2. Continue moving the conveyor into the oven until the frame protrudes equally from each end of the oven. Check that the crumb tray supports located on the underside of the conveyor frame rest firmly against the lower end plugs, as shown in Figure 2-13.
3. When the conveyor is positioned properly, check for freedom of movement of the conveyor belt by pulling it for about 2-3 feet (0.6-1.0m) with your fingers. The drive and idler shafts must rotate smoothly, and the belt must move freely without rubbing on the inside of the oven.
4. Check the tension of the conveyor belt as shown in Figure 2-14. The belt should lift about 1" (25mm). **DO NOT OVERTIGHTEN THE CONVEYOR BELT.**

NOTE: If necessary, the belt tension can be adjusted by turning the conveyor adjustment screws, located at the idler (non-control) end of the conveyor. See Figure 2-14.

Figure 2-12. Conveyor installation

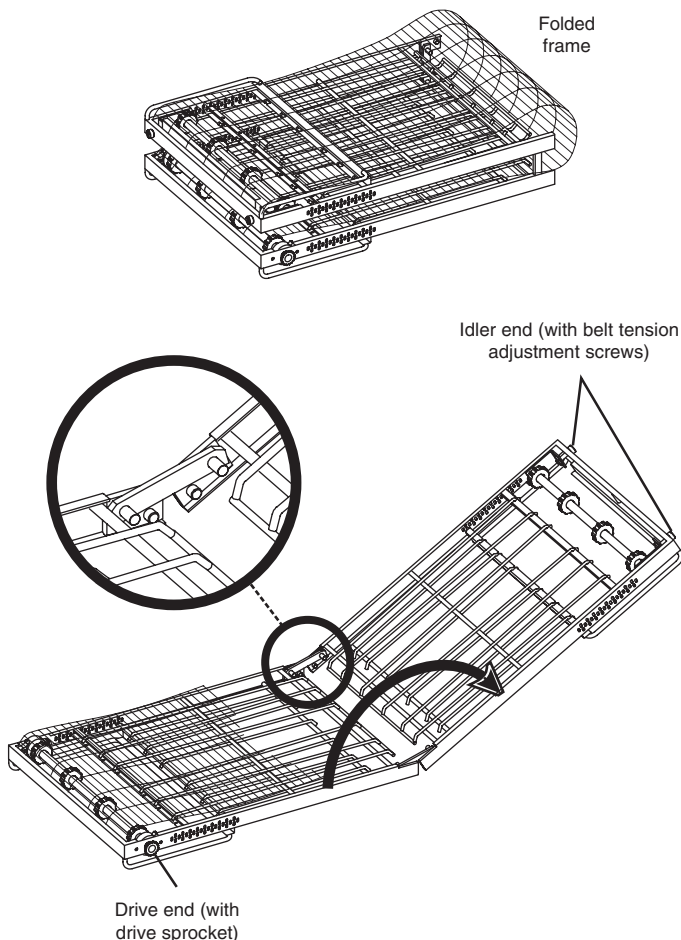


Figure 2-13. Conveyor placement

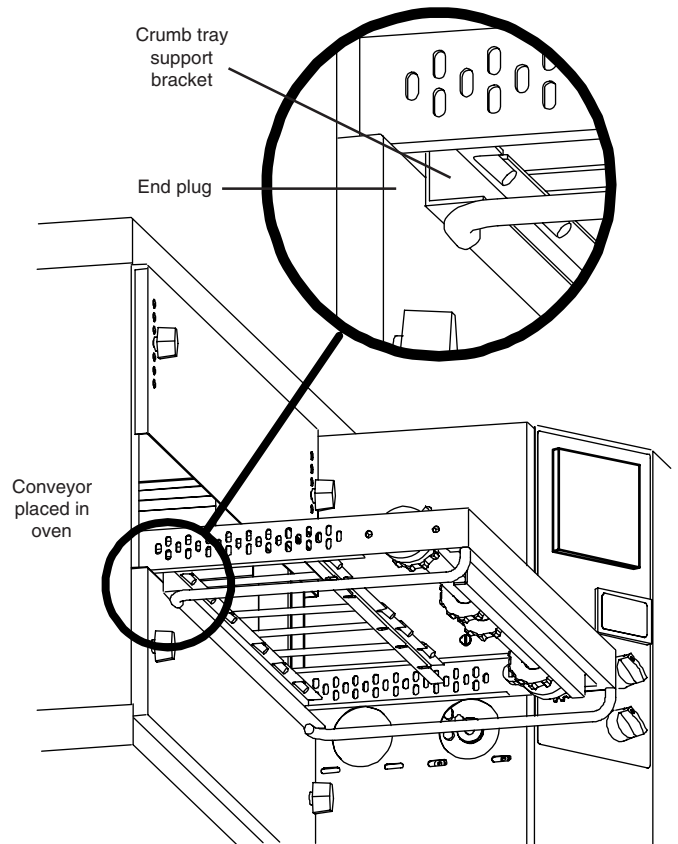
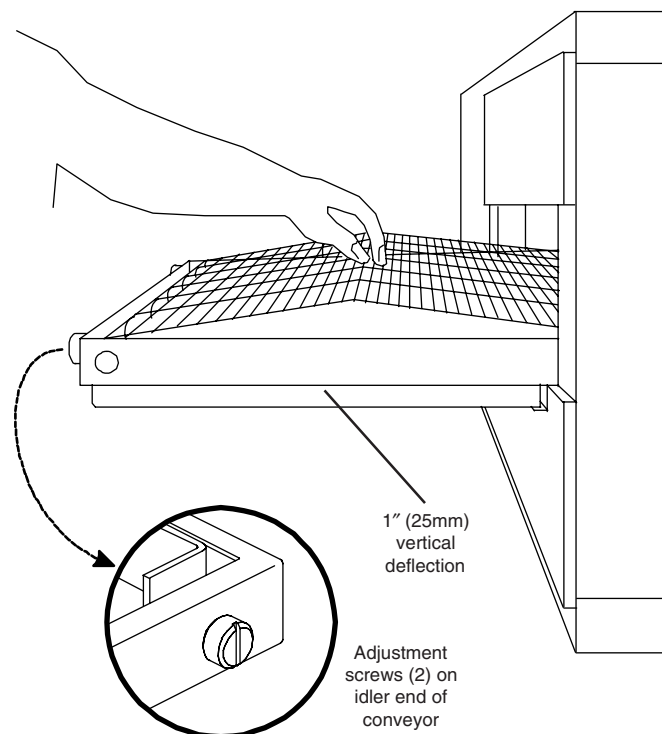
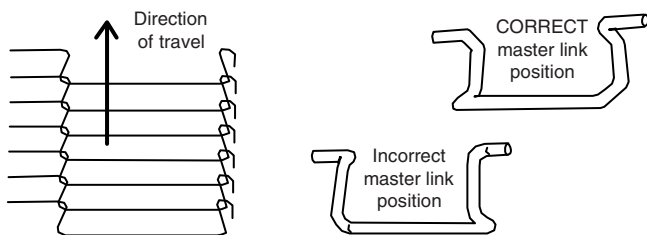


Figure 2-14. Conveyor Belt tension



5. If it is necessary to add or remove conveyor links to achieve the correct tension, OR if it is necessary to reverse the conveyor belt for correct orientation, the belt will need to be removed from the conveyor frame. If this is necessary, perform the following procedure:
 - Remove the conveyor assembly from the oven and place it flat on the floor.
 - Remove the master links using long-nose pliers. Then, roll up the belt along the length of the conveyor frame.
 - Add or remove belt links as necessary to achieve the correct belt tension.
 - Replace the belt on the conveyor frame. Check that the conveyor belt links are oriented as shown in Figure 2-15, and that the smooth side of the conveyor belt faces UP.
 - Connect the inside master links. Check that the links are oriented as shown in Figure 2-15.
 - Connect the outside master links. Note that the outside master links each have an open hook on one side. This hook aligns with the hooks along the sides of the other conveyor links. See Figure 2-15.
 - Replace the conveyor into the oven.

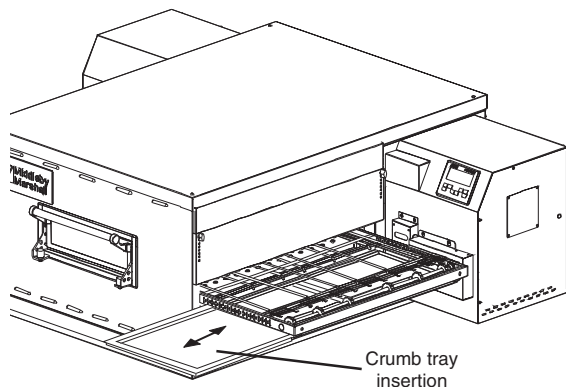
Figure 2-15. Conveyor and Master Link orientation



E. Final Assembly

1. Install the crumb trays underneath the conveyor as shown in Figure 2-16.

Figure 2-16. Crumb Trays



CONVEYOR BELT REVERSAL

Conveyor belt reversal consists of three steps:

1. Physically reversing the conveyor belt.
2. Resetting direction jumper on the conveyor control board.
3. Switching the photo detector.

REVERSING THE CONVEYOR BELT

Remove the conveyor from the oven and find the master link location. Remove master links and remove the belt from the conveyor frame. Reassemble the belt back onto the frame (in the reverse direction) and reinstall the master links. Replace the conveyor assembly in the oven.

RESETTING DIRECTION JUMPER

Locate Jumper P1 on the conveyor control board. Move jumper from terminals 1 and 2, and replace onto terminals 2 and 3.

CAUTION: *Shock hazard in compartments electrical filters are electrically alive.*



SWITCHING PHOTO DETECTOR

CAUTION: *Disconnect Power Before Switching Photo eye.*



Remove the three screws securing the access door to the unit. Open the access door and disconnect the connector fitting to the photo eye assembly. Remove the two screws securing the photo eye assembly to the control box. Remove the four nuts securing the photo eye to the housing. Rotate the photo eye 180 degrees and resecure the photo eye with the four nuts.

On the opposite control box, remove the two screws holding the cover where the photo eye assembly will be positioned. Secure the photo eye assembly in position with the two screws. Place the photo eye cover on the opposite control box, where the photo eye assembly was removed, and secure the two screws. Secure the access door with the three screws.

Remove the three screws securing the access door on the opposite side. Open the access door, where the photo eye is now positioned, and connect the photo eye connector fitting. Secure the access door with the three screws.

Apply power to the unit. Adjust the photo eye height by loosening the two screws securing the photo eye assembly and sliding the photo eye assembly either up or down, such that the beam is approximately 1/4 inch above the belt.

Note: This is MUCH easier in reduced light.

Replace all covers.

VI. ELECTRICAL SUPPLY

WARNING: *Authorized installation personnel normally accomplish the connections for the ventilation system, electric supply, and gas supply, as arranged by the customer. Following these connections, the factory-authorized installer can perform the initial startup of the oven.*

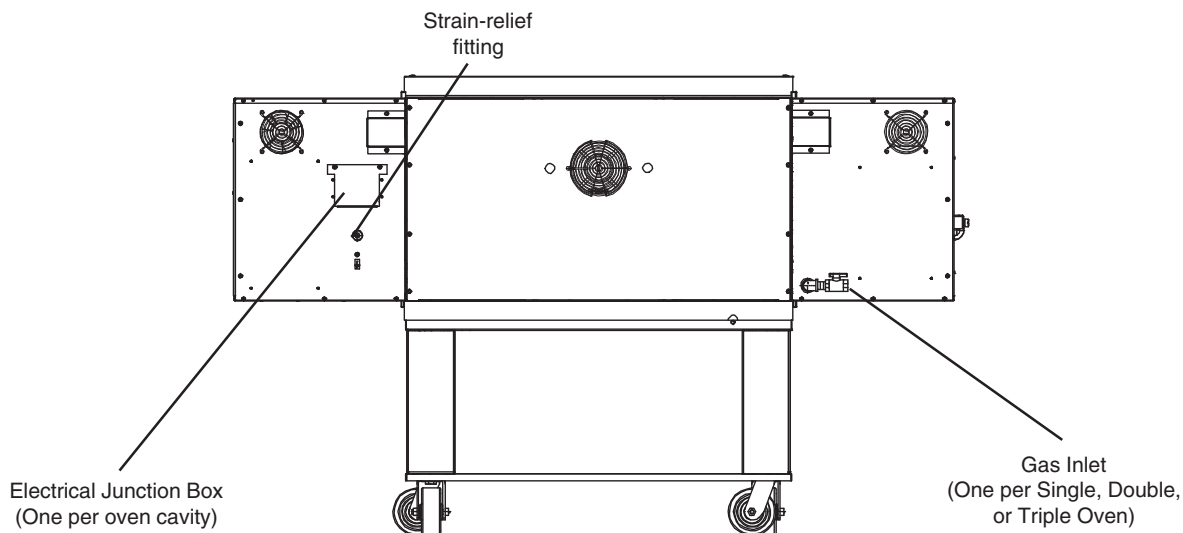


NOTE: The electric supply installation must satisfy the requirements of the appropriate statutory authority such as the National Electrical Code, CSA C22.2; the Australian Code AG601; or other applicable regulations.

NOTE: The electric supply connection must meet all national and local electrical code requirements.

Check the oven serial plate before making any electric supply connections. Electric supply connections must agree with data

Figure 2-17. Utility Connection Locations for Gas Ovens



on the oven serial plate. The location of the serial plate is shown in Figure 1-1 (in Section 1, [Description](#)).

A fused disconnect switch or a main circuit breaker (customer furnished) **MUST** be installed in the electric supply line for each oven cavity. It is recommended that the switch/circuit breaker have Lockout/Tagout capability.

The supply conductors must be of the size and material (copper) recommended. Refer to the wiring diagram inside the machinery compartment of the oven. Electrical specifications are also listed on the oven's serial plate and in Table 1-3, [Electrical Specifications](#) (in Section 1, [Description](#)).

The oven requires a ground connection to the oven ground screw. For gas ovens, the screw is located in the electrical junction box (see Figure 2-14). If necessary, have the electrician supply the ground wire. *Do NOT use the wiring conduit or other piping for ground connections.*

Incoming electrical power lines are fed through the strain-relief fitting, shown in Figure 2-14. The electrical supply connections are made inside the electrical junction box. The power lines then connect to the oven circuits through safety switches located inside the machinery compartment and each blower motor compartment. These switches interrupt electrical power to the oven when the Machinery Compartment Access Panel is opened, OR when the rear panel is removed.

Connection

Refer to the wiring diagram inside the machinery compartment of the oven to determine the correct connections for the electrical supply lines. Connect the supply as indicated on the wiring diagram.

CAUTION: *The terms of the oven's warranty require all start-ups, conversions and service work to be performed by a Middleby Marshall Authorized Service Agent.*



VII. GAS SUPPLY

CAUTION: *DURING PRESSURE TESTING NOTE ONE OF THE FOLLOWING:*



1. The oven and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressure in excess of ½ psi (3.45 kPa).
2. The oven must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressure equal to or less than ½ psi (3.45 kPa).
3. If incoming pressure is over 14" W.C. (35mbar), a separate regulator **MUST** be installed in the line BEFORE the individual shutoff valve for the oven.

WARNING: *To prevent damage to the control valve regulator during initial turn-on of gas, it is very important to open the manual shutoff valve very slowly.*



After the initial gas turn-on, the manual shutoff valve must remain open except during pressure testing as outlined in the above steps or when necessary during service maintenance.

A. Gas Utility Rough-In Recommendations

The following gas system specifications are **STRONGLY RECOMMENDED**. Deviating from these recommendations may affect the baking performance of the oven.

Gas Meter

- One or two cavities: 750 cfh meter
- Three oven cavities: 1200 cfh meter

Gas Line

- DEDICATED LINE from the gas meter to the oven
- 2" (50.8mm) pipe for natural gas
- 2" (50.8mm) pipe for propane
- Maximum length: 2002 (61m). Each 90°elbow equals 7" (2.13m) of pipe.

B. Connection

Check the oven's gas supply requirements before making the gas utility connection. Gas supply requirements are listed on the oven's serial plate and in Table 1-4. Gas Orifice and Pressure Specifications (in Section 1, Description).

Check the serial plate to determine the type of gas (Propane or Natural) to be used with the oven.

Refer to the instructions in the gas hose package (included in the Installation Kit) before connecting the gas line. One gas line connection method is shown in Figure 2-18; however, compliance with the applicable standards and regulations is mandatory.

Inlet, regulated, and pilot gas pressure readings can be taken using a digital tube manometer at the tap location shown in Figure 2-19. Figure 2-19 shows the burner assembly and Figure 2-21 shows the gas valve.

NOTE: The installation must conform with local codes or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1-latest edition.

Certain safety code requirements exist for the installation of gas ovens; refer to the beginning of Section 2 for a list of the installation standards. In addition, because the oven is equipped with casters, the gas line connection shall be made with a connector that complies with the Standard for Connectors for Movable Gas Appliances, ANSI Z21.69 (in U.S.A.), as well as a quick-disconnect device that complies with the Standard for Quick-Disconnect Devices for Use With Gas Fuel, ANSI Z21.41 (in U.S.A.).

C. Gas Conversion

Where permitted by local and national codes, it is possible to convert ovens from natural to propane gas, or from propane to natural gas. Use the appropriate Middleby Gas Conversion Kit for the specific oven model.

CAUTION: *The terms of the oven's warranty require all start-ups, conversions and service work to be performed by a Middleby Authorized Service Agent.*



D. PS640 Propane Conversion

Two items have to be changed, to change the oven to LP:

1. Replace main orifices.
2. Adjust main gas regulator per instructions below.

Disconnect the manifold union closest to the main burner, and remove the manifold assembly (four screws). Slide out the manifold assembly (leaving the ignition and sense wires connected). Replace the main orifices.

Replace the main orifices on the manifold assemblies with the LP units, and replace the manifold assembly. Reconnect the union.

E. Adjusting the Maximum Pressure Setting

1. Disconnect pressure feedback connection (if applicable).
2. Connect a suitable pressure gauge to pipe line or to outlet pressure tap of gas control concerned, to measure burner pressure (measuring point must be as near to burner as possible).

Figure 2-18. Flexible Gas Hose Installation

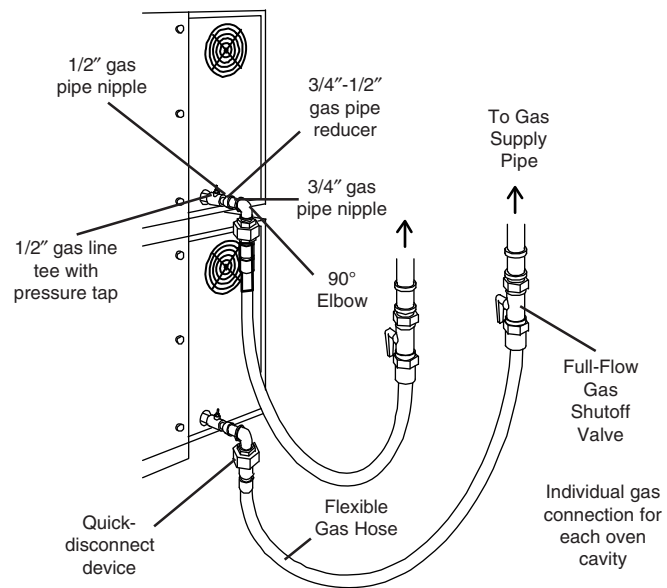
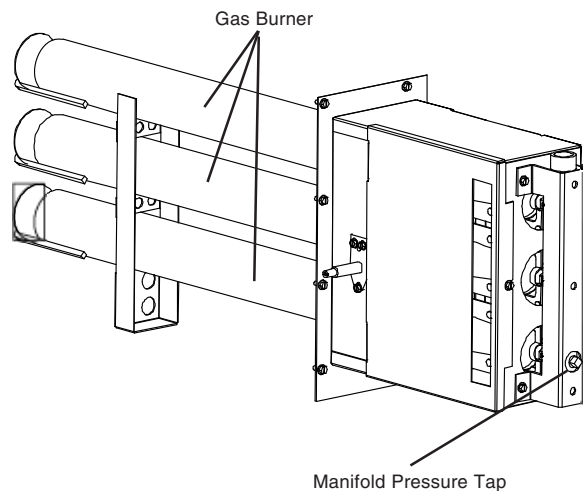
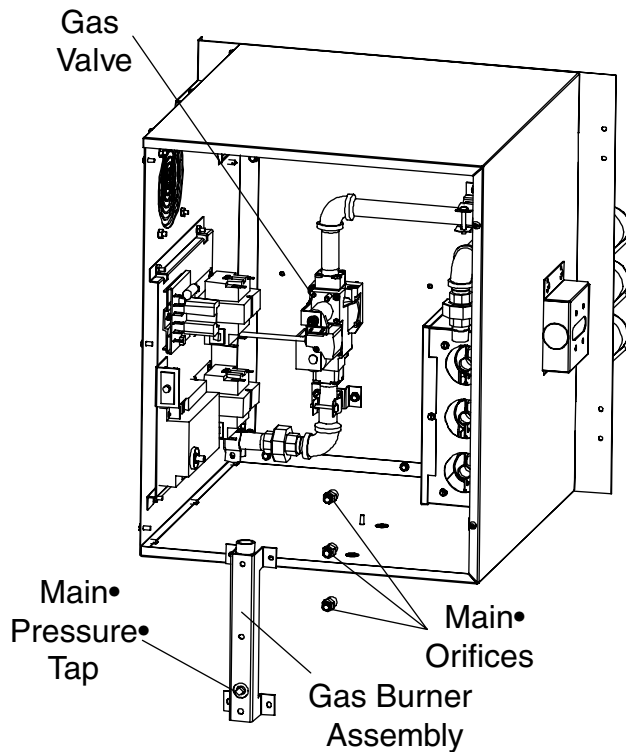


Figure 2-19. Gas Burner Assembly



3. Make sure that the appliance is in operation and the Moduplus® coil is energized with maximum current.
4. If maximum rate pressure needs adjustment, use an 8 mm wrench to turn adjustment screw for maximum pressure setting (clockwise to increase or counter-clockwise to decrease pressure), until the desired maximum outlet pressure is obtained.
5. Disconnect electrical connection of the Moduplus®.
6. Check minimum pressure setting and readjust if necessary. (See Adjusting Minimum Pressure Setting for proper adjusting procedure.)
7. Reconnect pressure feedback connection (if applicable).
8. If minimum and maximum pressures are set, wire the Moduplus® in circuit.
9. Close pressure tap screw.

Figure 2-20. Burner Assembly



F. Adjusting the Minimum Pressure Setting

1. Disconnect pressure feedback connection (if applicable).
2. Connect a suitable pressure gauge to pipe line or to outlet pressure tap of gas control concerned, to measure burner pressure (measuring point must be as near to burner as possible).
3. Disconnect electrical connection of the Moduplus®.
4. Energize operator, set control in operation and wait until an outlet pressure is recorded on pressure gauge.
5. If minimum rate pressure needs adjustment, use an 8 mm wrench to turn adjustment screw for minimum pressure setting (clockwise to increase or counter-clockwise to decrease pressure), until the desired minimum outlet pressure is obtained.
6. Check if main burner lights easily and reliable at minimum pressure.
7. Reconnect pressure feedback connection (if applicable).
8. Close pressure tap screw.

G. Checkout

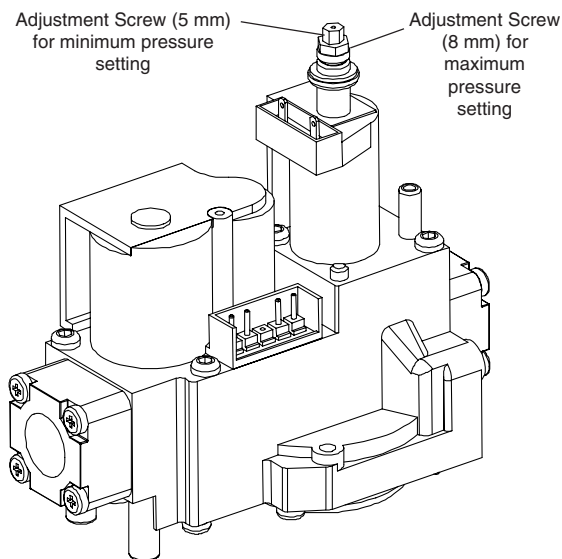
After any adjustment, set appliance in operation and observe through a component cycle to ensure that burner system components function correctly.

NOTE: The installer **MUST** verify oven operation prior to putting oven into service.

H. Maintenance

It is recommended to check yearly the minimum and the maximum setting and readjust them if necessary.

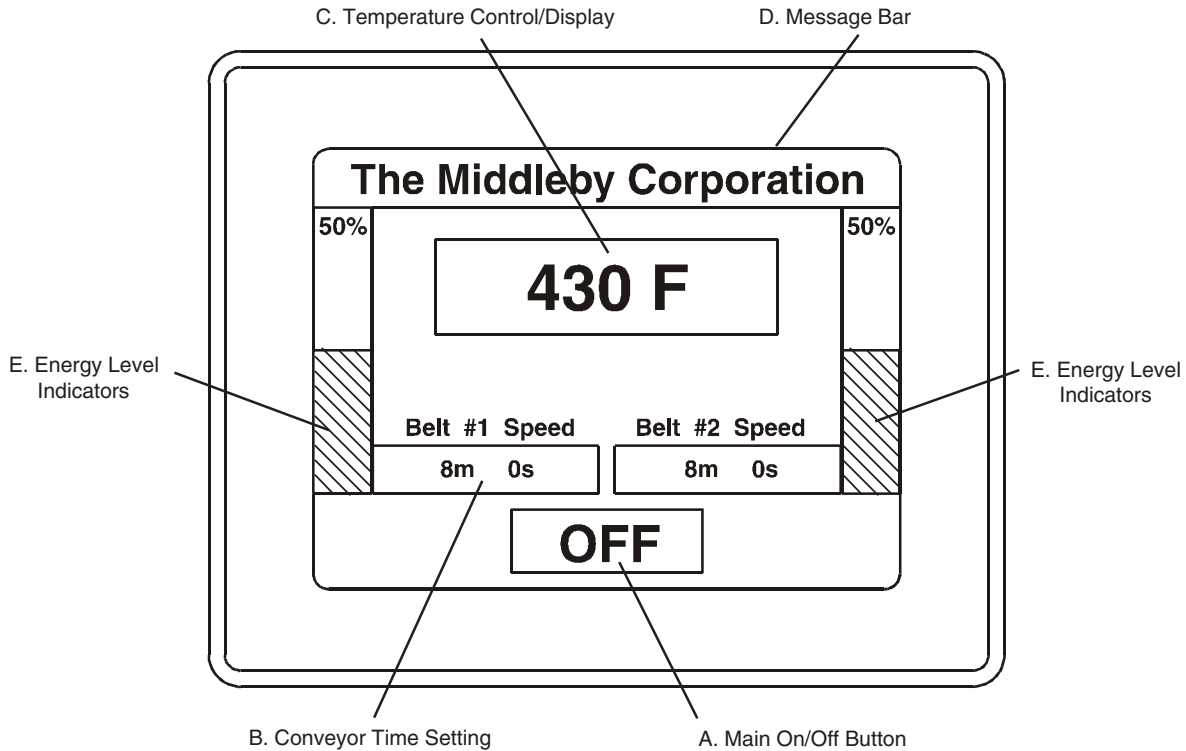
Figure 2-21. Gas Valve



SECTION 3 - OPERATION

WARNING

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.



I. LOCATION AND DESCRIPTION OF CONTROLS

A. Main On/Off Button

Turns all oven functions on or off. If the oven is below the set point, it will rise to the set point and turn the conveyor on. If it is turned off and the oven is above 200° F, the blowers will remain on until the oven drops below 200° F.

B. Conveyor Time Setting

Adjusts and displays the conveyor bake time. Dual belt ovens have two displays, single units have one.

C. Temperature Control/Display

Displays the average set point of both right and left sides of the oven. Pressing on the display allows individual temperature displays and adjustments.

D. Message Bar

Displays messages during oven operation.

E. Energy Level Indicators

Displays energy usage on left and right sides of the oven.

II. NORMAL OPERATION - STEP-BY-STEP-

A. Daily Startup Procedure

1. Check that the circuit breaker/fused disconnect is in the On position. Check that the window is closed. The touch panel display should be lit.
2. Adjust the conveyor to the desired bake time.
3. Press the temperature button to display right and left hand oven settings. Set temperatures as desired.
4. Press the ON button to activate the oven. The conveyor will not run, until the oven temperature has reached the set points.

B. Daily Shutdown Procedure

1. Make certain there are no products left on the conveyor in the oven.
2. Press the ON square to turn the oven off.
3. Open the window to allow the oven to cool faster.
4. After the oven has cooled and the blowers have turned off, the circuit breaker/fused disconnect may be turned off.

Quick Reference – Touch Screen Controller

A. Main Screen

1. On/Off button - Used to turn oven On and Off.
2. Conveyor speed - Pressing on either the minutes or seconds allows a new value to be input for the conveyor speed. Split belt ovens have two inputs (front and rear belts).
3. Oven temperature - Pressing on the set temperature shifts the user to the oven temperature set point/indicator screen.
4. Energy level indicators - Indicators to either side of the screen indicate the energy input to that side of the oven.
5. Message bar - Indicates various messages pertaining to current oven conditions.

B. Oven Temperature/Set Point/Indicator Screen

1. Right actual temperature - Indicates current average temperature of the right side of the oven.

2. Left actual temperature - Indicates current average temperature of the left side of the oven.

NOTE: Right to Left temperature settings should not exceed a differential of 20 °F.

3. Right Set point temperature - Pressing on this value allows the user to adjust the set point for the right side of the oven.
4. Left Set point temperature - Pressing on this value allows the user to adjust the set point for the left side of the oven.
5. Exit - Returns to the main screen.

C. Energy Modes

Energy Mode One - This mode is automatic, and starts (bake time +1 minute) after the last product has entered the oven. In this mode, the main oven blowers will lower to 1500 RPM, while the oven maintains temperature and belt speed.

Energy Mode Two - The oven lowers its set point by 100° F, and stops the belt. Anytime that the oven is more than 10 degrees over its set point, the burners will completely shut off, allowing the oven to cool and the burners are on minimum flow. The main blowers will continue to run at 1500 RPM in this mode. Placing any article on the input belt will cause normal operation of the oven to resume, and bring the set point back to its original level. The belt will resume operation once both sides of the oven are within 5° F of the set point.

Energy Mode Three - The oven will turn off completely and shut off the circulation blowers once the oven temperature has dropped below 200° F. Placing any article on the input belt will cause normal operation of the oven to resume, and bring the set point back to its original level. The belt will resume operation once both sides of the over are within 5° F of the set point.

Energy Mode Four - This is a complete oven shut down. Placing anything on the belt will NOT return the oven to Operation. The ON button on the main screen has to be pressed to restart the oven.

III. QUICK REFERENCE: TROUBLESHOOTING

SYMPTOM	PROBLEM	SOLUTION
<i>Oven will not turn On.</i>	No electrical power	<ul style="list-style-type: none"> Check that the circuit breaker/fused disconnect is on. Make sure the emergent stop button is on.
<i>Oven will not heat.</i>	No gas pressure	<ul style="list-style-type: none"> Make sure main gas is on.
	Burner did not light	<ul style="list-style-type: none"> Turn oven off, and restart. If it still does not light, call for service.
<i>Oven is operating, but little or no air is coming from the fingers.</i>	Air fingers may be assembled incorrectly after cleaning.	<ul style="list-style-type: none"> Turn oven off, and allow to cool. Reassemble fingers correctly.
<i>Conveyor will not move.</i>	Oven is not up to operating temperature.	<ul style="list-style-type: none"> Allow oven to preheat.
	Conveyor may be jammed.	<ul style="list-style-type: none"> Turn oven off, and allow to cool. Check conveyor for blockage.

SCREEN ALERTS

SYMPTOM	PROBLEM	SOLUTION
High Control Compartment Temperature	Clean and replace the front fan filters.	<ul style="list-style-type: none"> Failure to do this will eventually shut down the oven due to excessive temperature.
Main Blower problem or Combustion Blower problem.	The computer has detected a problem with either the main, or burner blowers.	<ul style="list-style-type: none"> This should be corrected by a qualified service technician.
Control Over Temp	Front filters are clogged	<ul style="list-style-type: none"> Clean or replace filters.
Front belt jammed	Front belt has stopped	<ul style="list-style-type: none"> Remove obstruction, and restart oven. If no obstruction, call service.
Rear Belt jammed	Rear belt has stopped	<ul style="list-style-type: none"> Remove obstruction, and restart oven. If no obstruction, call service.
High Temp Error	Thermocouple or PLC malfunction	<ul style="list-style-type: none"> Call service
Belt off-Oven not in temperature	Normal operation until Oven reaches operating temperature	
Energy Saving Mode 1	Normal operation	
Energy saving mode 2	Normal Operation	
Energy saving Mode 3	Normal operation	

SECTION 4 - MAINTENANCE

WARNING

Before ANY cleaning or servicing of the oven, perform the following procedure:

1. Switch off the oven and allow it to cool. Do NOT service the oven while it is warm.
2. Turn off the electric supply circuit breaker(s) and disconnect the electric supply to the oven.
3. If it is necessary to move a gas oven for cleaning or servicing, disconnect the gas supply before moving the oven.

When all cleaning and servicing is complete:

1. If the oven was moved for servicing, return the oven to its original location.
2. If the restraint cable was disconnected to clean or service the oven, reconnect it at this time.
3. Reconnect the gas supply.
4. Reconnect the electrical supply.
5. Turn on the full-flow gas safety valve. Test the gas line connections for leaks using approved leak test substances or thick soap suds.
6. Turn on the electric supply circuit breaker(s).
7. Perform the normal startup procedure.

WARNING

Possibility of injury from moving parts and electrical shock exists in this oven. Switch off and lockout/tagout the electric supply BEFORE beginning to disassemble, clean, or service any oven. Never disassemble or clean an oven with the BLOWER (⊗) switch or any other circuit of the oven switched on.

CAUTION

NEVER use a water hose or pressurized steam-cleaning equipment when cleaning this oven. To avoid saturating the oven insulation, DO NOT use excessive amounts of water. DO NOT use a caustic oven cleaner, which can damage the bake chamber surfaces.

NOTE

ANY replacement parts that require access to the interior of the oven may ONLY be replaced by a Middleby Marshall Authorized Service Agent. It is also strongly recommended that the 3-Month Maintenance and 6-Month Maintenance procedures in this section be performed ONLY by a Middleby Marshall Authorized Service Agent.

I. MAINTENANCE - DAILY

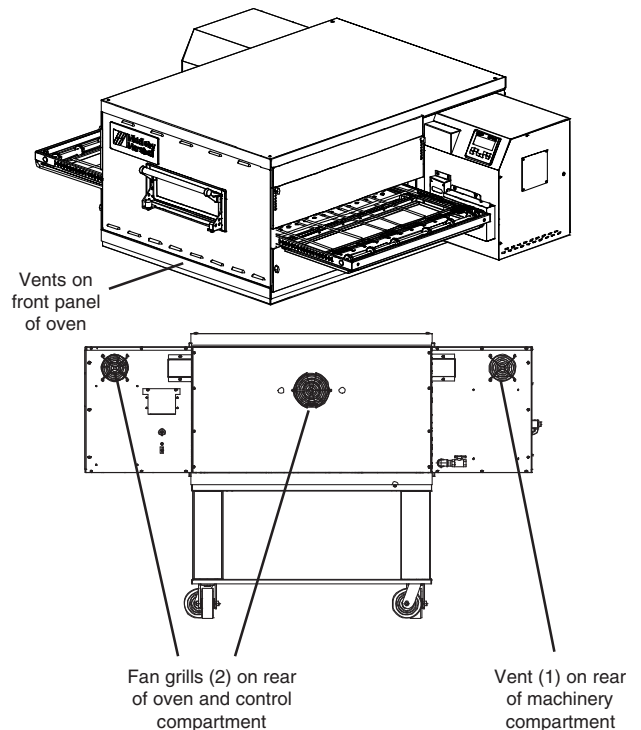
- A. Check that the oven is cool and the power is disconnected, as described in the warning at the beginning of this Section.
- B. Clean ALL of the cooling fan grills and vent openings with a stiff nylon brush. Refer to Figure 4-1 for the locations of the grills and vents.
- C. Clean the outside of the oven with a soft cloth and mild detergent.
- D. Check that ALL cooling fans are operating properly.

CAUTION: If a cooling fan is not operating correctly, it must be replaced IMMEDIATELY. Operating the oven without adequate cooling can seriously damage the oven's internal components.



- E. Clean the conveyor belts with a stiff nylon brush. This is more easily accomplished by allowing the conveyor to run while you stand at the exit end of the conveyor. Then, brush the crumbs off the conveyor as it moves.
- F. Remove and clean the crumb trays. If necessary, refer to Figure 2-16 (in Section 2, [Installation](#)) when replacing the crumb trays into the oven.
- G. Clean the window in place.

Figure 4-1. Cooling Vents and Grills



II. MAINTENANCE – MONTHLY

NOTE: When removing the conveyor, refer to Figure 2-12 (in Section 2, Installation).

- A. Check that the oven is cool and the power is disconnected, as described in the warning at the beginning of this Section.
- B. Remove the crumb trays from the oven.
- C. Lift the drive end of the conveyor slightly, and push it forward into the oven. This removes the tension from the drive chain. Then, remove the drive chain from the conveyor sprocket.
- D. Slide the conveyor out of the oven, folding it as it is removed.
- E. Remove the end plugs from the oven. The end plugs are shown in Figure 1-1 (in Section 1, Description).
- F. Slide the air fingers and blank plates out of the oven, as shown in Figure 4-2. AS EACH FINGER OR PLATE IS REMOVED, WRITE A "LOCATION CODE" ON IT WITH A MARKER to make sure that it can be reinstalled correctly.

Example of markings:

(Top Row)	T1	T2	T3	T4	T5	T6
(Bottom Row)	B1	B2	B3	B4	B5	B6

- G. Disassemble the air fingers as shown in Figure 4-3. AS EACH FINGER IS DISASSEMBLED, WRITE THE "LOCATION CODE" FOR THE FINGER ON ALL THREE OF ITS PIECES. This will help you in correctly reassembling the air fingers.

CAUTION: *Incorrect reassembly of the air fingers will change the baking properties of the oven.*



- H. Clean the air finger components and the interior of the baking chamber using a vacuum cleaner and a damp cloth. Refer to the boxed warnings at the beginning of this Section for cleaning precautions.
- I. Reassemble the air fingers. Then, replace them in the oven, using the "location guide" as a guide.
- J. Replace the end plugs on the oven.
- K. Reassemble the conveyor into the oven. If the drive sprocket was removed when installing the conveyor, replace it at this time.
- L. Reattach the drive chain.
- M. Check the tension of the conveyor belt as shown in Figure 2-14 (in Section 2, Installation). The belt should lift between 3 - 4" (75-100mm). DO NOT OVERTIGHTEN THE CONVEYOR BELT. If necessary, the belt tension can be adjusted by turning the conveyor adjustment screws, located at the idler (right) end of the conveyor.
- N. Replace the crumb trays.

Figure 4-2. Removing Air Fingers and Plates

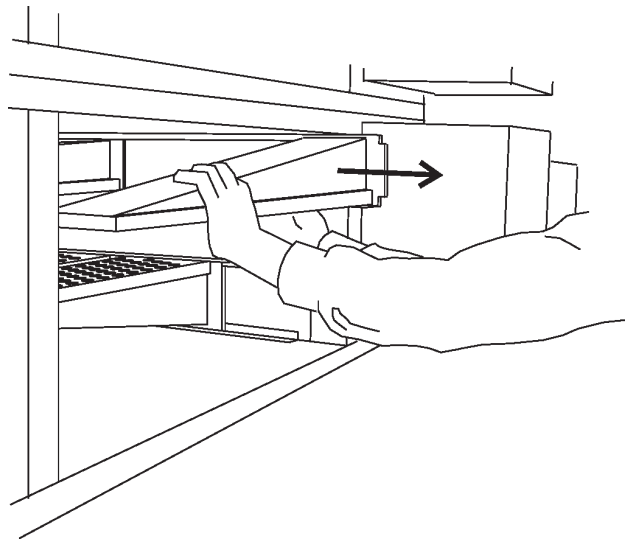
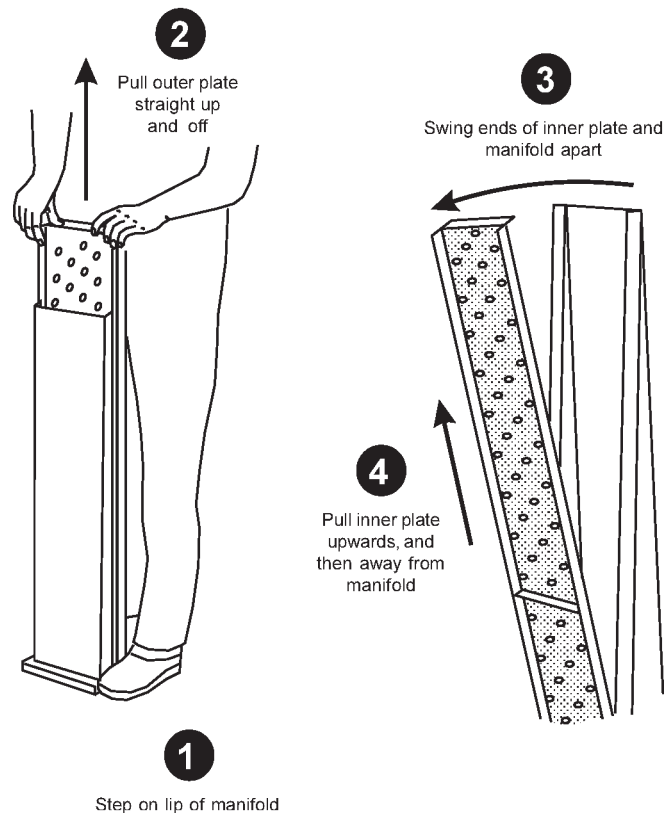
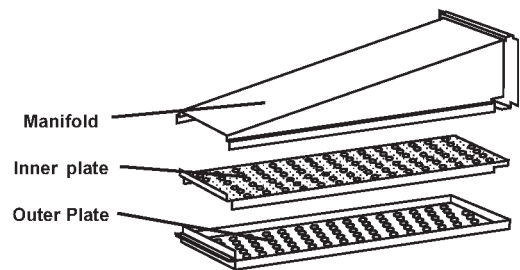


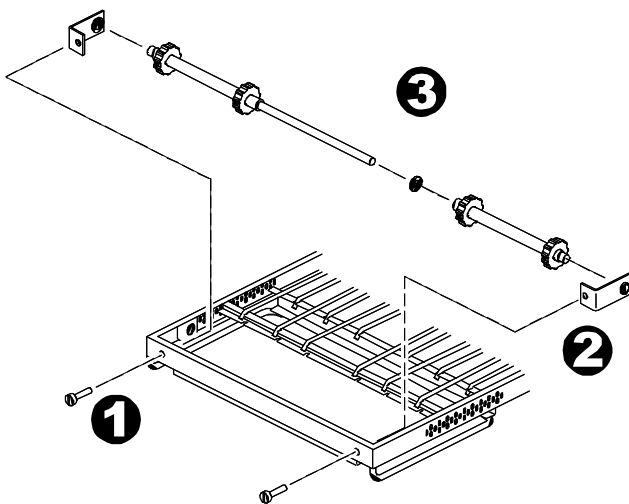
Figure 4-3. Disassembling the Air Fingers



III. MAINTENANCE – EVERY 3 MONTHS

- A. Check that the oven is cool and the power is disconnected, as described in the warning at the beginning of this Section.
- B. Vacuum both of the blower mounts, and their surrounding compartments, using a shop vacuum.
- C. Tighten all electrical terminal screws.
- D. **Split Belt Disassembly and Cleaning**
 1. Refer to Part D, Conveyor Installation, in the Installation section of this Manual. Then, remove the following components from the oven:
 - Conveyor end stop
 - Crumb trays
 - Chain cover
 - Drive chains
 - End plugs
 - Conveyor assembly
 2. Remove the master links from each conveyor belt. Then, roll the belts up along the length of the conveyor to remove them from the frame.
 3. Remove the two conveyor adjustment screws from the idler end of the conveyor frame, as shown in Figure 4-4.
 4. Remove the idler shaft assembly from the conveyor.
 5. Pull apart the two sections of the idler shaft.
 6. Clean the shafts thoroughly using a rag. Then, lubricate both the extended shaft and the interior of the hollow shaft using a light food-grade lubricant. **DO NOT** lubricate the shafts using WD40 or a similar product. This can cause the shafts to wear rapidly.
 7. Before reassembling the shafts into the conveyor frame, check that they are oriented properly.

Figure 4-4. Disassembling the idler shaft



8. Reassemble the idler shaft into the conveyor. Make sure that the bronze washer is in place between the two sections of the shaft. See Figure 4-4.
9. Replace the conveyor adjustment screws as shown in Figure 4-4. To allow the conveyor belt to be reinstalled later, do not tighten the screws at this time.
10. Loosen the set screw on both of the conveyor drive sprockets. Then, remove the sprockets from the shaft.
11. Check the conveyor configuration as follows:

High-speed conveyors are equipped with large flange bearings at both ends of the shaft, as shown in Figure 4-5. For these conveyors, remove the two screws that hold each bearing to the conveyor frame. With the screws removed, lift the end of the shaft at the front of the oven, and pull the entire assembly free of the conveyor frame.

Standard conveyors are equipped with bronze bushings mounted on spacers at both ends of the shaft, as shown in Figure 4-5. For these conveyors, remove the two screws that hold the bracket to the conveyor frame. With the screws removed, lift the end of the shaft at the front of the oven, and pull the entire assembly free of the conveyor frame. The brackets will be removed along with the drive shaft assembly.
12. Disassemble and lubricate the two sections of the drive shaft as described for the idler shaft, above.
13. Before reassembling the shafts into the conveyor frame, check that they are oriented properly.
14. Reassemble the drive shaft into the conveyor. Make sure that the bronze washer is in place between the two sections of the shaft. See Figure 4-4.
15. Replace the drive sprockets. Reassemble the belts and master links onto the conveyor.
16. Reinstall the end plugs and conveyor onto the oven.
17. Reattach the drive chains. Replace the chain cover.
18. Check the tension of the conveyor belt as shown in Figure 2-14 (in Section 2, Installation). The belt should lift about 1" (25mm). If necessary, adjust the belt tension by turning the conveyor adjustment screws.
19. Replace all components onto the oven.

Figure 4-5. Drive shaft configurations

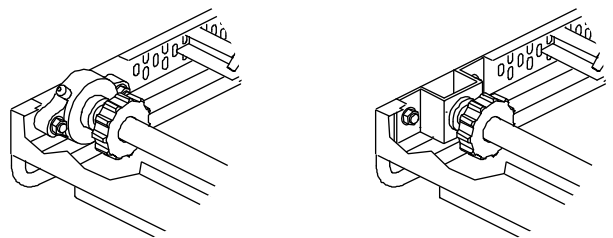


Figure 4-6. Disassembling the drive shaft

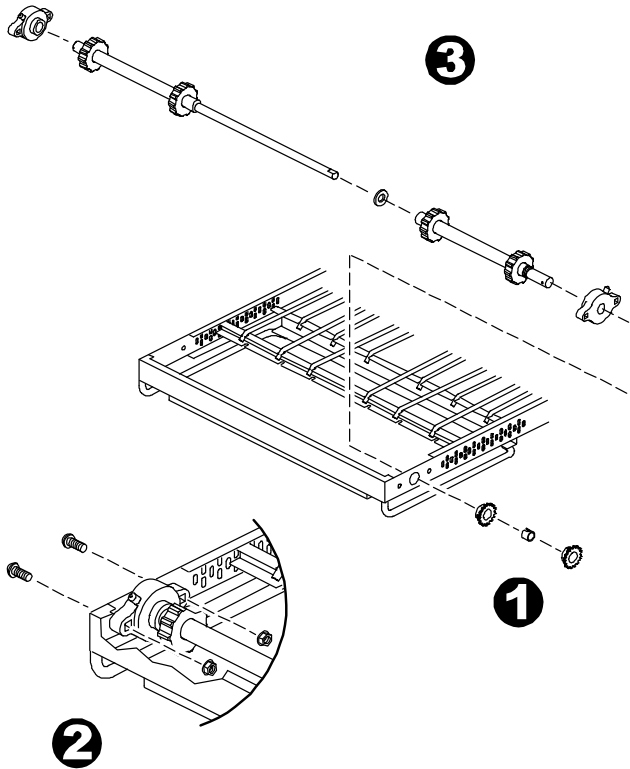
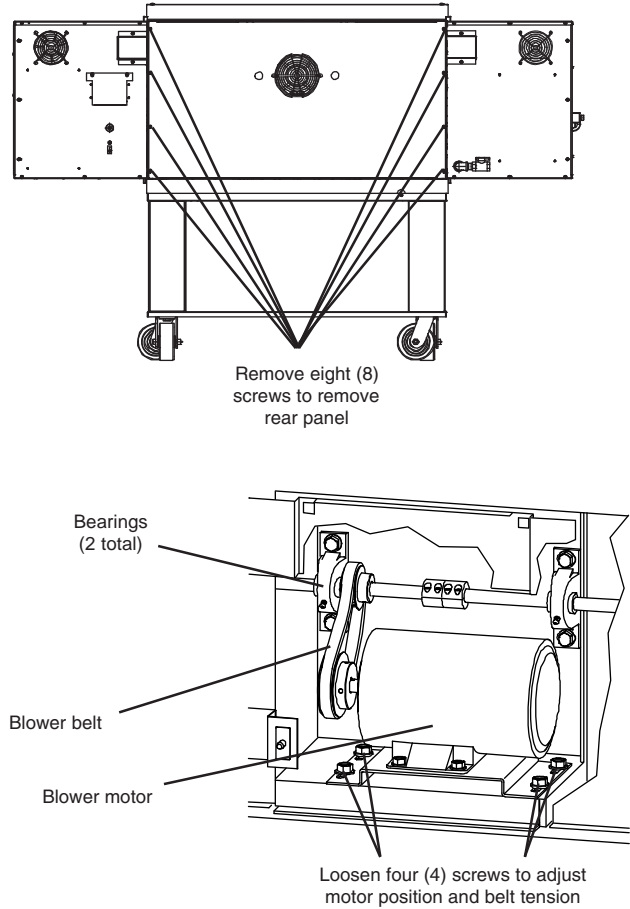


Figure 4-7. Rear panel access



E. Blower Belt

1. Remove the six screws shown in Figure 4-7. Then, remove the rear panel from the oven.
2. Check the blower belt for the proper 1/4" (6mm) deflection at the center, and for cracking or excessive wear.

See Figure 4-7. Overtightening the belt will cause premature bearing failure and possible vibrations. A loose belt may also cause vibrations.

3. If necessary, adjust the tension of the belt by loosening the four motor mounting bolts. Reposition the motor as necessary until the correct 1/4" (6mm) deflection is reached, then tighten the bolts.

IV. MAINTENANCE - EVERY 6 MONTHS

- A. Check that the oven is cool and the power is disconnected, as described in the warning at the beginning of this Section.
- B. Check for excessive wear on the conveyor drive motor brushes. The brushes should be replaced if they have worn to less than 1/4" (6mm) in length. Be sure to replace the brushes in exactly the same position.
- C. For gas ovens, inspect and clean the burner nozzle and the spark electrode assembly.
- D. Check the conveyor drive shaft bushings and spacers. Replace the components if they are worn.

V. KEY SPARE PARTS – Available separately. See Figure 4-8.

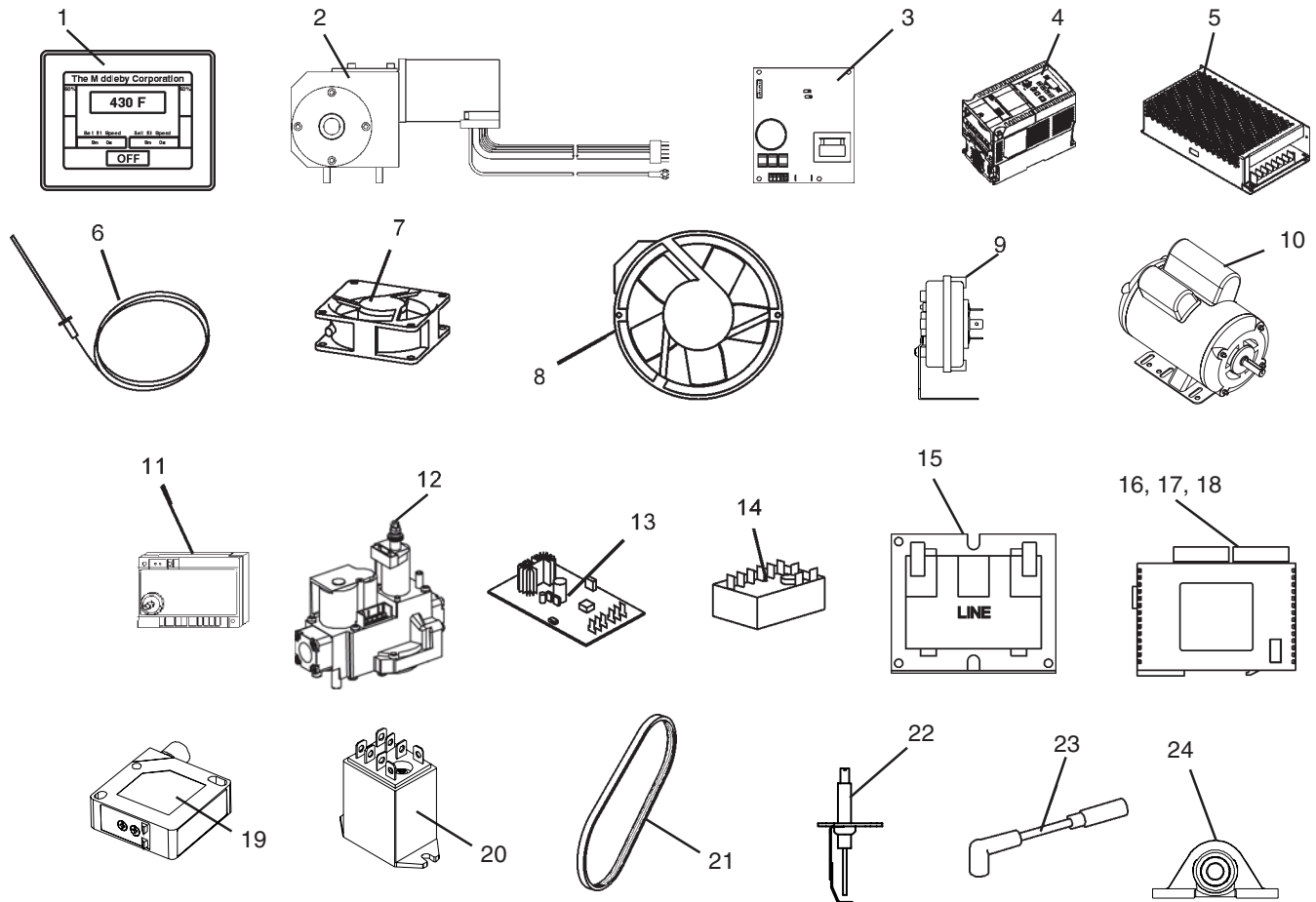
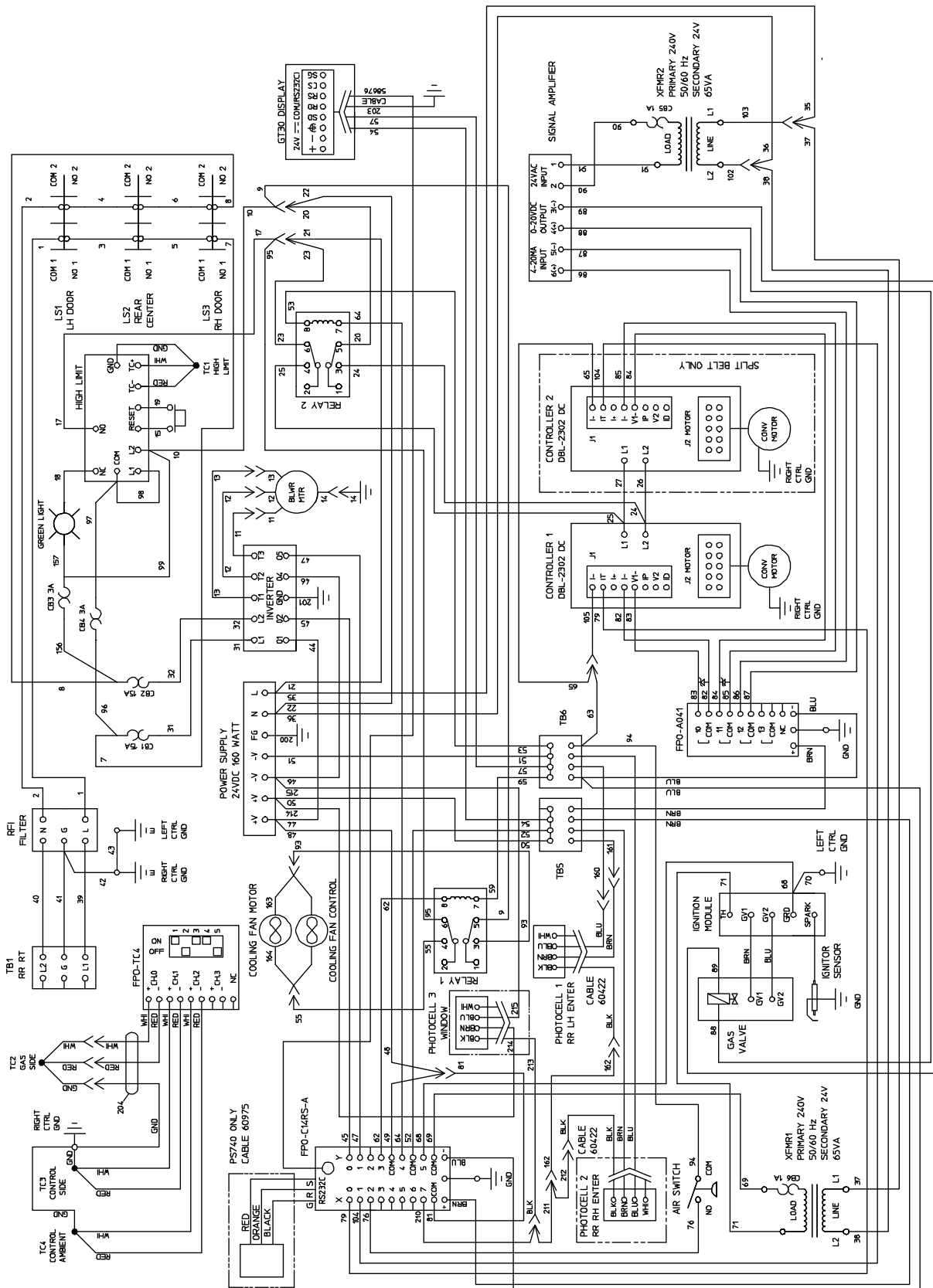


Figure 4-8. Key Spare Parts
KEY SPARE PARTS PS640 GAS

ITEM	QTY.	P/N	DESCRIPTION
1	1	60190	Digital Display, Programmed
2	1	58920	Motor, Conveyor Drive
3	1	58679	Conveyor Control Board
4	1	60192	Inverter, Programmed
5	1	M9608	Power Supply
6	1	60196	Kit, Thermocouple
7	1	97525	Fan Cooling Control
8	1	51399	Fan Cooling Rear
9	1	60598	Air Switch
10	1	57288	Motor, Blower
11	1	50239	Ignition Module
12	1	60679	Assy, Valve Gas Modulating
13	1	60671	Board, Signal Cond. 0-15VDC
14	1	33983	High Limit Control Module,240V
15	2	32108	Transformer,240Vp:24Vs
16	1	60193	PLC Module, Programmed
17	1	58668	Thermocouple Module
18	1	58669	Current Module
19	1	60251	PhotoCell
20	2	59132	Relay, DPDT 24V Coil
21	1	59668	Belt, Blower
22	1	48455	Ignitor, Single Rod
23	1	50240	Ignition Cable, 25"
24	1	60636	Bearing, PB 5/8 B

SECTION 5 - WIRING DIAGRAM



Middleby-Marshall Model Number G208-240 Volt 50/60 Hz, 1 Phase

NOTES

NOTES

NOTES

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

During the warranty period, ALL parts replacement and servicing should be performed by your Middleby Marshall Authorized Service Agent. Service that is performed by parties other than your Middleby Marshall Authorized Service Agent may void your warranty.

NOTICE

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

NOTICE

Middleby Marshall reserves the right to change specifications at any time.

CFESA

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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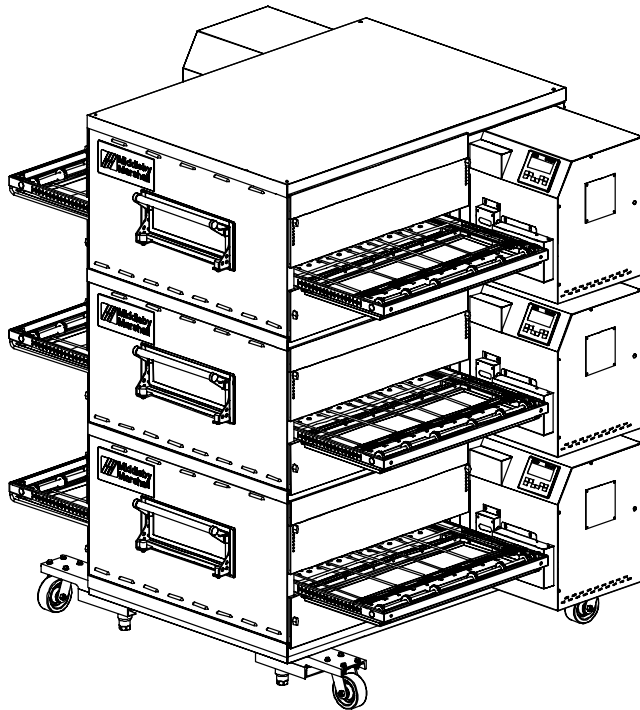
www.middleby.com



PS640/740/840 Series
Electric & Gas
Domestic & Std. Export
ENGLISH



P/N: 640
May, 2009 Rev. D



PS640#(\$# (\$ Series Ovens

Model


Combinations:

- Single Oven
- Double Oven (Two-Stack)
- Triple Oven (Three-Stack)

D5 FHG MANUAL

for domestic and standard export ovens

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NOTICE:

This parts manual should be kept in a prominent, easily reachable location.

Ovens are shipped from the factory configured for use with natural gas. If permitted by local, national and international codes, at the time of installation the oven may be converted to propane gas operation. This conversion requires the use of a Gas Conversion Kit that is supplied with the oven. For CE-approved ovens, the conversion is described in the *Installation* section of this Manual. For domestic and standard export ovens, instructions are included in the Gas Conversion Kit.

It is suggested to obtain a service contract with a Middleby Marshall Authorized Service Agent.

WARNING

POST, IN A PROMINENT LOCATION, THE EMERGENCY TELEPHONE NUMBER OF YOUR LOCAL GAS SUPPLIER AND INSTRUCTIONS TO BE FOLLOWED IN THE EVENT YOU SMELL GAS.

Instructions to be followed in the event the user smells gas shall be obtained by consulting the local gas supplier. If the smell of gas is detected, immediately call the emergency phone number of your local Gas Company. They will have personnel and provisions available to correct the problem.

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, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

WARNING

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.

IMPORTANT

An electrical wiring diagram for the oven is located inside the machinery compartment.

IMPORTANT

It is the customer's responsibility to report any concealed or non-concealed damage to the freight company. Retain all shipping materials until it is certain that the equipment has not suffered concealed shipping damage.

NOTICE

CONTACT YOUR MIDDLEBY MARSHALL AUTHORIZED SERVICE AGENT TO INSTALL AND PERFORM MAINTENANCE AND REPAIRS AND IF NECESSARY TO CONVERT EQUIPMENT FOR USE WITH OTHER GASES. AN AUTHORIZED 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.

NOTICE

The equipment warranty is not valid unless the oven is installed, started and demonstrated under the supervision of a factory certified installer.

NOTICE

THIS EQUIPMENT IS ONLY FOR PROFESSIONAL USE AND SHALL BE USED BY QUALIFIED PERSONNEL.

RETAIN THIS MANUAL FOR FUTURE REFERENCE.

MIDDLEBY MARSHALL
NO QUIBBLE LIMITED WARRANTY
(U.S.A. ONLY)

MIDDLEBY MARSHALL, HEREINAFTER REFERRED TO AS "THE SELLER", WARRANTS EQUIPMENT MANUFACTURED BY IT TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR WHICH IT IS RESPONSIBLE. THE SELLER'S OBLIGATION UNDER THIS WARRANTY SHALL BE LIMITED TO REPLACING OR REPAIRING, AT SELLER'S OPTION, WITHOUT CHARGE, ANY PART FOUND TO BE DEFECTIVE AND ANY LABOR AND MATERIAL EXPENSE INCURRED BY SELLER IN REPAIRING OR REPLACING SUCH PART. SUCH WARRANTY SHALL BE LIMITED TO THE ORIGINAL PURCHASER ONLY AND SHALL BE EFFECTIVE FOR A PERIOD OF ONE YEAR FROM DATE OF ORIGINAL INSTALLATION, OR 18 MONTHS FROM DATE OF PURCHASE, WHICHEVER IS EARLIER, PROVIDED THAT TERMS OF PAYMENT HAVE BEEN FULLY MET.

This warranty is valid only if the equipment is installed, started, and demonstrated under the supervision of a factory-authorized installer.

Normal maintenance functions, including lubrication, cleaning, or customer abuse, are not covered by this **no quibble warranty**.

Seller shall be responsible only for repairs or replacements of defective parts performed by Seller's authorized service personnel. Authorized service agencies are located in principal cities throughout the contiguous United States, Alaska, and Hawaii. This warranty is valid in the 50 United States and is void elsewhere unless the product is purchased through Middleby International with warranty included.

The foregoing warranty is exclusive and in lieu of all other warranties, expressed or implied. There are no implied warranties of merchantability or of fitness for a particular purpose.

The foregoing shall be Seller's sole and exclusive obligation and Buyer's sole and exclusive remedy for any action, including breach of contract or negligence. In no event shall Seller be liable for a sum in excess of the purchase price of the item. Seller shall not be liable for any prospective or lost profits of Buyer.

This warranty is effective on Middleby Marshall equipment sold on, or after, February 15, 1995.

MIDDLEBY MARSHALL INC.
OVEN LIMITED WARRANTY
(Non U.S.A.)

The Seller warrants equipment manufactured by it to be free from defects in material and workmanship for which it is responsible. The Seller's obligation under this warranty shall be limited to replacing or repairing, at Seller's option, without charge, F.O.B. Seller's factory, any part found to be defective and any labor and material expense incurred by Seller in repairing or replacing such part. Such warranty is limited to a period of one year from date of original installation or 15 months from date of shipment from Seller's factory, whichever is earlier, provided that terms of payment have been fully met. All labor shall be performed during regular working hours. Overtime premium will be charged to the Buyer.

This warranty is not valid unless equipment is installed, started, and demonstrated under the supervision of a factory-authorized installer.

Normal maintenance functions, including lubrication, adjustment of airflow, thermostats, door mechanisms, microswitches, burners and pilot burners, and replacement of light bulbs, fuses and indicating lights, are not covered by warranty.

Any repairs or replacements of defective parts shall be performed by Seller's authorized service personnel. Seller shall not be responsible for any costs incurred if the work is performed by other than Seller's authorized service personnel.

When returning any part under warranty, the part must be intact and complete, without evidence of misuse or abuse, freight prepaid.

Seller shall not be liable for consequential damages of any kind which occur during the course of installation of equipment, or which result from the use or misuse by Buyer, its employees or others of the equipment supplied hereunder, and Buyer's sole and exclusive remedy against Seller for any breach of the foregoing warranty or otherwise shall be for the repair or replacement of the equipment or parts thereof affected by such breach.

The foregoing warranty shall be valid and binding upon Seller if and only if Buyer loads, operates and maintains the equipment supplied hereunder in accordance with the instruction manual provided to Buyer. Seller does not guarantee the process of manufacture by Buyer or the quality of product to be produced by the equipment supplied hereunder and Seller shall not be liable for any prospective or lost profits of Buyer.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER. SPECIFICALLY THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

The foregoing shall be Seller's sole and exclusive obligation and Buyer's sole and exclusive remedy for any action, whether in breach of contract or negligence. In no event shall seller be liable for a sum in excess of the purchase price of the item.

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NOTE

Wiring Diagrams are in back of this Manual.
The diagram for each oven is also on the lower
inner surface of its Control Console.

SECTION 1 – DESCRIPTION

I. OVEN USES

PS640 Series Ovens can be used to bake and/or cook a wide variety of food products, such as pizza, pizza –type products, cookies, sandwiches and others.

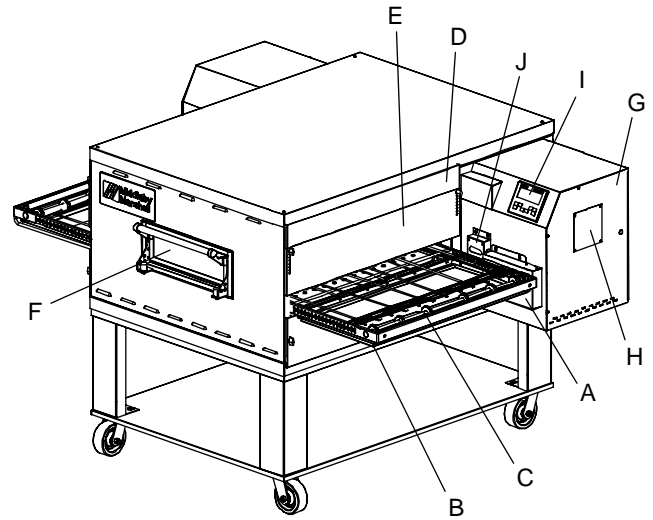
II. OVEN COMPONENTS – see Figure 1-1.

- A. **Conveyor Drive Motor:** Moves the conveyor.
- B. **Crumb Pans:** Catch crumbs and other materials that drop through the conveyor belt. One crumb pan is located at each end of the conveyor.
- C. **Conveyor:** Moves the food product through the oven.
- D. **End Plugs:** Allow access to the oven's interior.
- E. **Eyebrows:** Can be adjusted to various heights to prevent heat loss into the environment.
- F. **Window:** Allows the user to access food products inside the baking chamber.
- G. **Machinery Compartment Access Panel:** Allows access to the oven's interior and control components. No user serviceable parts are located in the machinery compartment.
- H. **Serial Plate:** Provides specifications for the oven that affect installation and operation. Refer to Section 2, [Installation](#) for details.
- I. **Control Panel:** Location of the operating controls for the oven. Refer to Section 3, [Operation](#), for details.
- J. **Photo Cell:** Turns oven On when beam is interrupted.

Not Shown:

- K. **Gas Burner (gas ovens):** Heat air, which is then projected to the air fingers by the blowers.
- L. **Blowers:** Project hot air from the burner or heating element to the air fingers.
- M. **Air Fingers:** Project streams of hot air onto the food product.

Figure 1-1. Oven Components



I. OVEN SPECIFICATIONS

Table 1-1 Dimensions	Single Oven	Double Oven	Triple Ove
Overall Height	48-3/16" (1219mm)	62-3/4" (1575mm)	78-11/16" (1981mm)
Overall Depth	60" (1524mm)	60" (1524mm)	60" (1524mm)
Overall Length	76-1/2" (1930mm)	76-1/2" (1930mm)	76-1/2" (1930mm)
Conveyor Width – belt width is 32"	33-1/2" (838mm) or 2 x 15" (381mm)	33-1/2" (838mm) or 2 x 15" (381mm)	33-1/2" (838mm) or 2 x 15" (381mm)
Shortened Exit Conveyor - 24"	Single Oven	Double Oven	Triple Ove
Overall Depth	52.75" (1340mm)	52.75" (1340mm)	52.75" (1340mm)
Overall Length	69" (1753mm)	69" (1753mm)	69" (1753mm)

* All other dimension are the same

Recommended Minimum Clearances

Rear of Oven to Wall	3" (76mm)	3" (76mm)	3" (76mm)
Control end of conveyor to Wall	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)
Non-control end of conveyor to Wall)	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)

Table 1-2: General Specifications PS640 GAS	32" Belt	24" Belt
Weight	1150 lbs. (522kg)	1150 lbs. (522kg)
Rated Heat Input	99,000 BTU (25,000kcal, 29 kW/hr)	99,000 BTU (25,000kcal, 29 kW/hr)
Maximum Operation Temperature	600°F / 315°C	600°F / 315°C
Air Blowers	Two Blowers at 1900 RPM	Two Blowers at 1900 RPM
Warmup Time	15 min.	15 min.

Table 1-3: Electrical specifications for PS640G gas ovens

Main Blower Voltage	Control Circuit Voltage	Phase	Freq	Current Draw	Poles	Wires
208-240VAC	208-240VAC	1Ph	50/60Hz	11-9.6 Amp	2 Pole	3 Wire (2 hot, 1 gd)

Table 1-4: Gas orifice and pressure specifications for PS640G gas ovens

Gas Type	Main Orifice I.D. PS640G	Supply (Inlet) Pressure	Orifice (Manifold) Pressure	Bypass Pressure
Natural	0.1065" (0.120mm)	6-8" W.C. (14.9 - 19.9mbar)	3.5" W.C. (8.7mbar)	0.25-0.3" W.C. (0.6-0.8 mbar)
Propane	0.067" (1.9mm)	11-14" W.C. (27.4 - 34.9mbar)	10.0" W.C. (24.9mbar)	0.9-1.0" W.C. (2.2-2.5 mbar)

IMPORTANT – Additional electrical information is provided on the oven's serial plate, and on the wiring diagram inside the machinery compartment.

GAS ORIFICE AND PRESSURE SPECIFICATIONS (PER OVEN CAVITY) - CE OVENS

Gas Type	Main Orifice dia.	Supply (Inlet) Pressure						Orifice (Manifold) Pressure	Rated Heat Input
		IT,PT,ES,SE, 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 _{3B/P}	BE,IE,IT,PT, ES,UK I ₃₊		
G20	0.120" (3.05 mm)	20 mbar	--	20 mbar	20 mbar	--	--	11.21 mbar	22.36 kW-hr.
G25	0.120" (3.05 mm)	--	25 mbar	--	--	--	--	16.19 mbar	22.36 kW-hr.
G30	0.075" (1.9 mm)	--	--	--	--	29 or 50 mbar	28-30, 37 or 50 mbar	26.2 mbar	22.59 kW-hr.

NOTE

Wiring Diagrams are contained in Section 5 of this Manual and are also located inside the oven at the bottom of the Control Panel.

Additional electrical information is provided on the oven's serial plate.

This Manual Must Be Kept For Future Reference

SECTION 2 – INSTALLATION

WARNING – After any conversions, readjustments, or service work on the oven:

- Perform a gas leak test.
- Test for proper combustion and gas supply.
- Test for correct air supply, particularly to the burner blower.
- Check that the ventilation system is in operation.

WARNING - Keep the appliance area free and clear of combustibles.

WARNING – The oven must be installed on an even (level) non-flammable flooring and any adjacent walls must be non-flammable. Recommended minimum clearances are specified in the Description section of this manual.

WARNING – Do not obstruct the flow of combustion and ventilation air to and from your oven. There must be no obstructions around or underneath the oven. Constructional changes to the area where the oven is installed shall not affect the air supply to the oven.

CAUTION: To reduce the risk of fire, the appliance is to be mounted on floors of noncombustible construction with noncombustible flooring and surface finish and with no combustible material against the underside thereof, or on noncombustible slabs or arches having no combustible material against the underside thereof, such construction shall in all cases extend not less than 12 inches (304mm) beyond the equipment on all sides.

CAUTION: For additional installation information, contact your local Authorized Service Agent.

NOTE – There must be adequate clearance between the oven and combustible construction. Clearance must also be provided for servicing and for proper operation.

NOTE – An electrical wiring diagram for the oven is located inside the machinery compartment.

NOTE: All aspects of the oven installation, including placement, utility connections, and ventilation requirements, must conform with any applicable local, national, or international codes. These codes supersede the requirements and guidelines provided in this manual.

NOTE: In the USA, the oven installation must conform to local codes. In the absence of local codes, gas oven installations must conform with the National Fuel Gas Code, ANSI Z223.1. Gas and electric ovens, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code (NEC), or ANSI/NFPA70.

NOTE: In Canada, the oven installation must conform with local codes. In the absence of local codes, gas oven installations must conform with the Natural Gas Installation Code, CAN/CGA-B149.1, or the Propane Gas Installation Code, CAN/CGA-B149.2, as applicable. Gas and electric ovens, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the Canadian Electrical Code CSA C22.2.

NOTE: In Australia, the oven installation must conform with local codes. In the absence of local codes, gas oven installations must conform with the requirements of AS5601/AG601, Gas, Electricity, and any other relevant statutory regulations.

PS640 24" OVEN INSTALLATION REQUIRED KITS AND EQUIPMENT

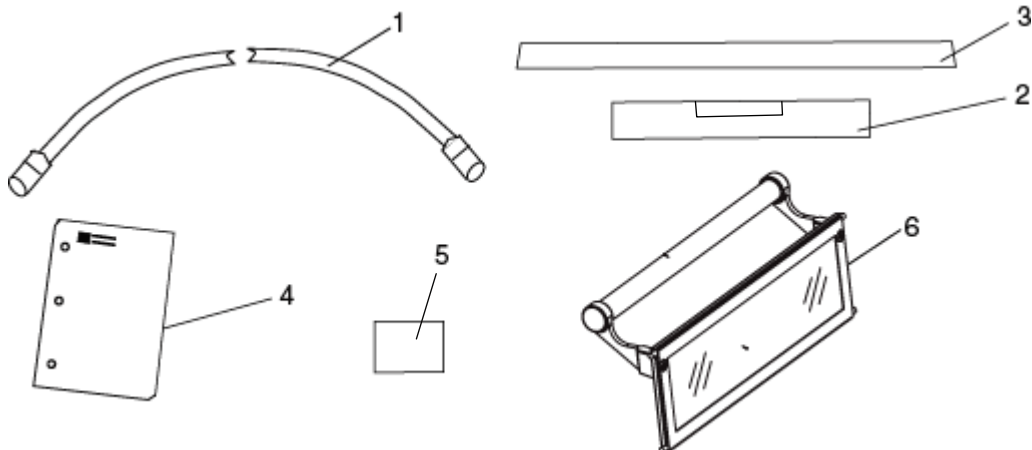
TYPE OF INSTALLATION	PS640 Gas Oven Installation Kit P/N61452	PS640 Single Oven Option Base w/ 15" Legs, Casters & Top Kit P/N61123	PS640 DoubleOven OptionBase w/ 6" Legs, Casters & Top Kit P/N61457	PS640 TripleOven OptionBase w/ Casters& Top Kit P/N61458
PS640 Single Gas Oven	1	1		
PS640 Double Gas Oven	2		1	
PS640 Triple Gas Oven	3			1

PARTS LIST FOR SERIES PS640 GAS OVEN INSTALLATION KIT P/N 61452

(Two required for double oven)
(Three required for triple oven)

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	22361-0001	FLEXIBLE GAS HOSE
2	1	61823	CONVEYOR END STOP, 18"
3	1	31461	CONVEYOR LEFT REAR STOP, 21.25"
4	1	42612	SERVICE AGENCY DIRECTORY
5	1	22500-0080	LABEL, MM
6	1	51054	ASSY, HANDLE & DOOR

Figure 2-1A. PS640-Series Gas Oven Installation Parts



PS640 32" OVEN INSTALLATION REQUIRED KITS AND EQUIPMENT

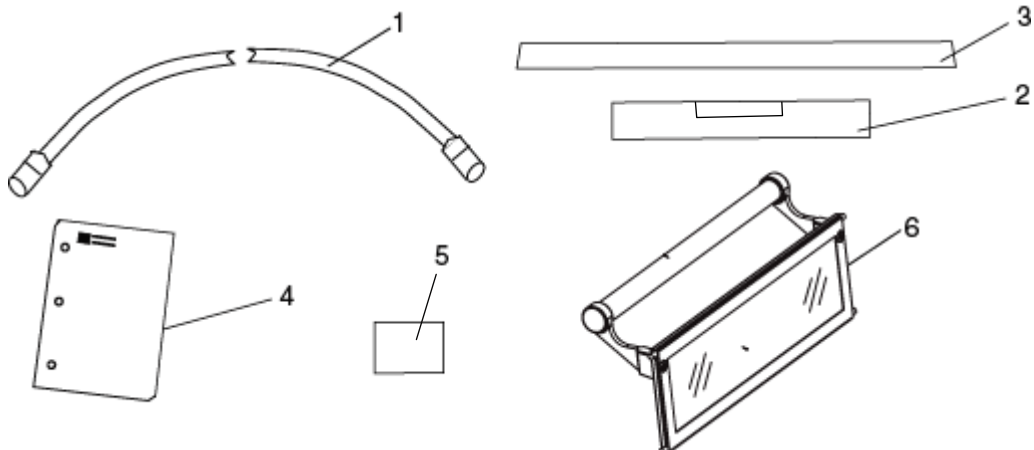
TYPE OF INSTALLATION	PS640 Gas Oven Installation Kit P/N61033	PS640 Single Oven Option Base w/ 15" Legs, Casters & Top Kit P/N59720	PS640 DoubleOven OptionBase w/ 6" Legs, Casters & Top Kit P/N59725	PS640 TripleOven OptionBase w/ Casters& Top Kit P/N59726
PS640 Single Gas Oven	1	1		
PS640 Double Gas Oven	2		1	
PS640 Triple Gas Oven	3			1

PARTS LIST FOR SERIES PS640 GAS OVEN INSTALLATION KIT P/N 61033

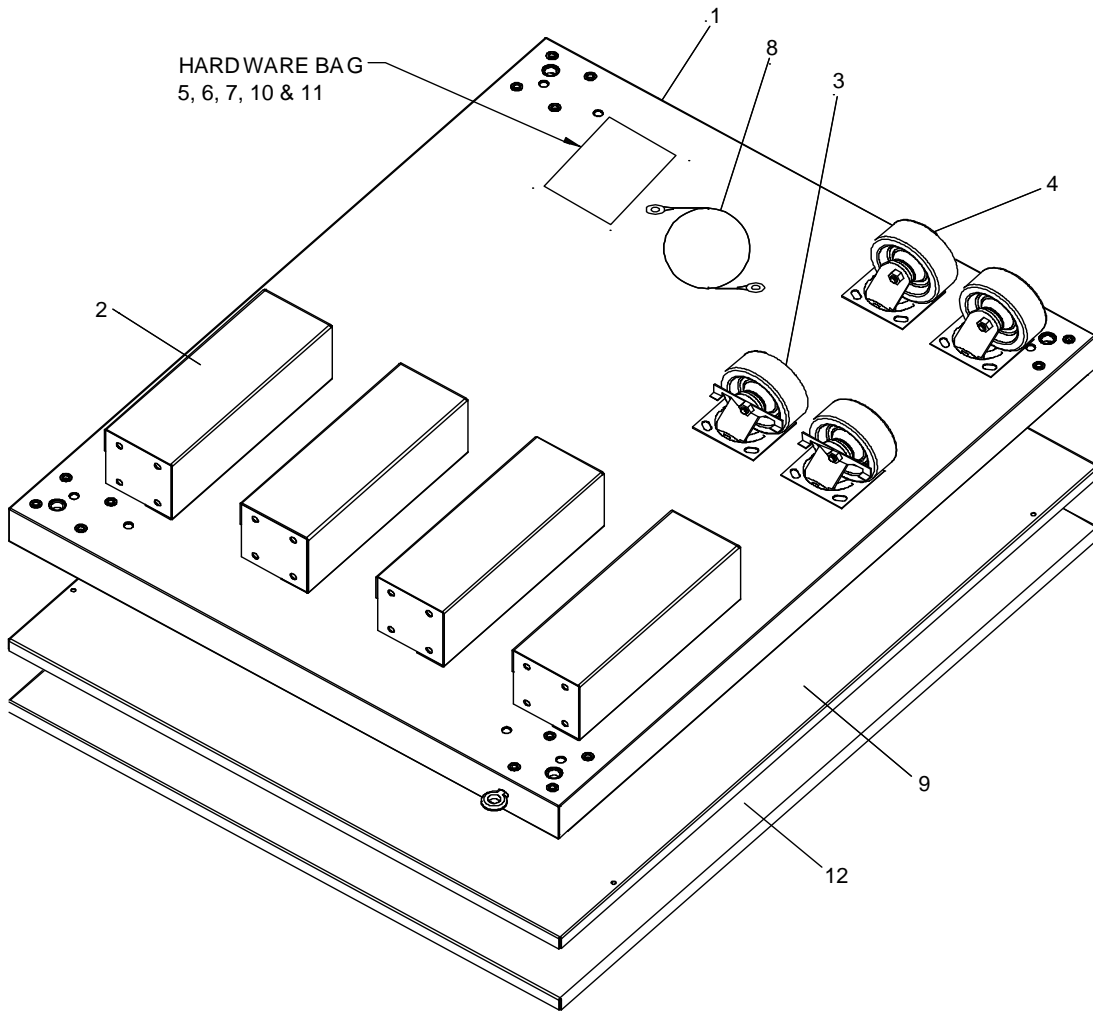
(Two required for double oven)
(Three required for triple oven)

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	22361-0001	FLEXIBLE GAS HOSE
2	1	61823	CONVEYOR END STOP
3	1	55027	CONVEYOR LEFT REAR STOP
4	1	42612	SERVICE AGENCY DIRECTORY
5	1	22500-0080	LABEL, MM
6	1	51054	ASSY, HANDLE & DOOR

Figure 2-1B. PS640-Series Gas Oven Installation Parts



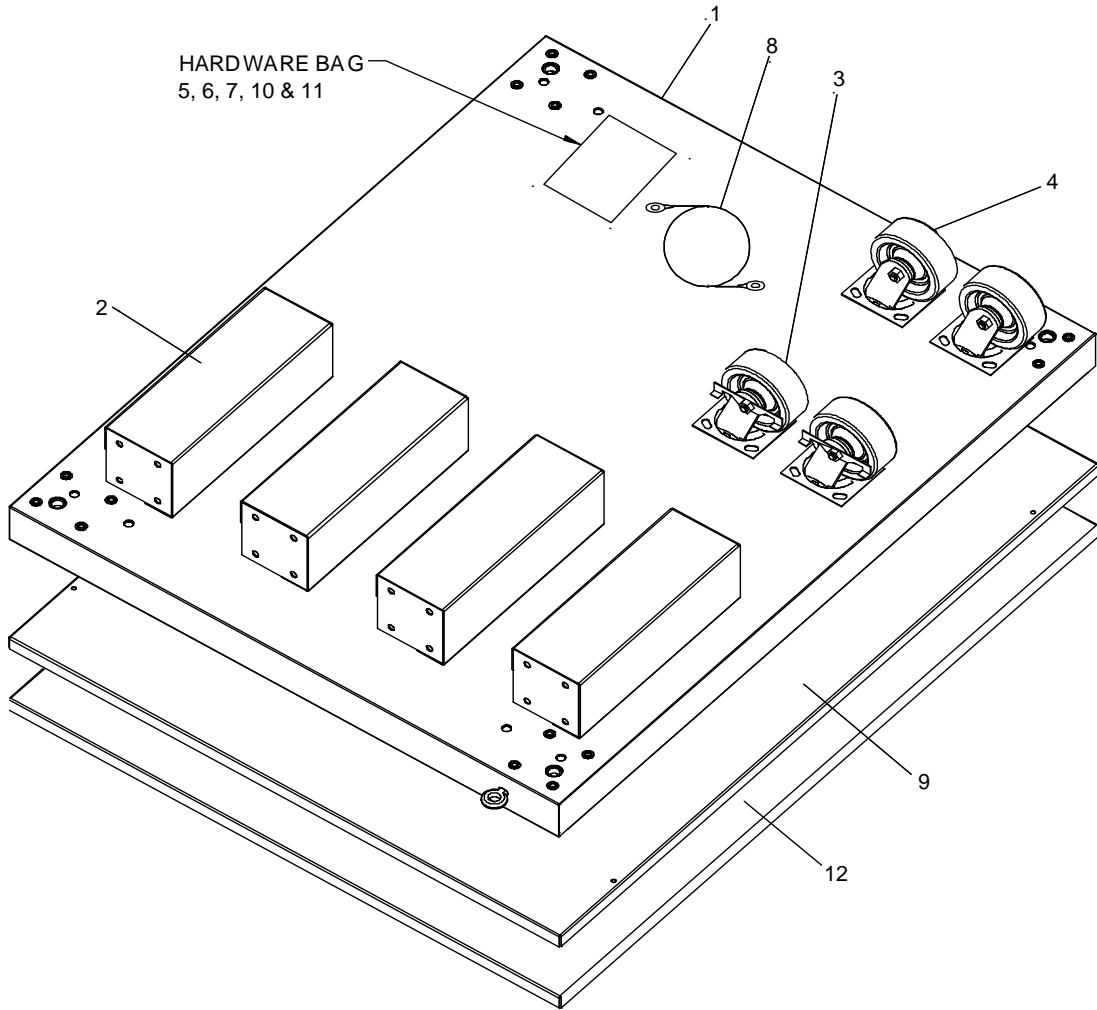
**Figure 2-2A. Model PS640 24" Single Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 SERIES 24" SINGLE OVEN OPTION - BASE w/15" LEGS & TOP
P/N 61123**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	61126	COMPLETE BASE WELDMENT
2	4	37900-0024	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1" HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	61125	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	61128	SUPPORT, SHELF

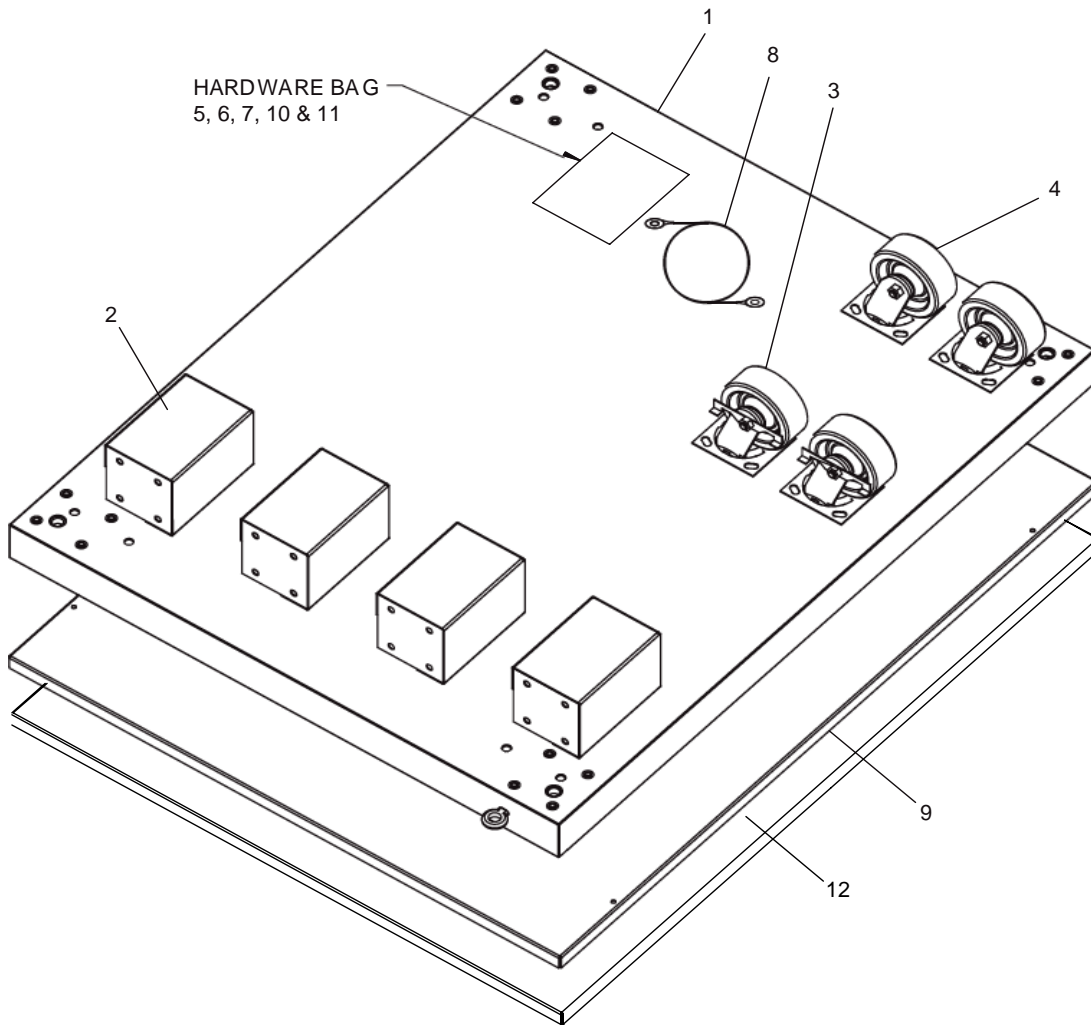
**Figure 2-2B. Model PS640 32" Single Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 32" SERIES SINGLE OVEN OPTION - BASE w/15" LEGS & TOP
P/N 59720**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	60287	COMPLETE BASE WELDMENT
2	4	37900-0024	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1" HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	59560	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	59724	SUPPORT, SHELF

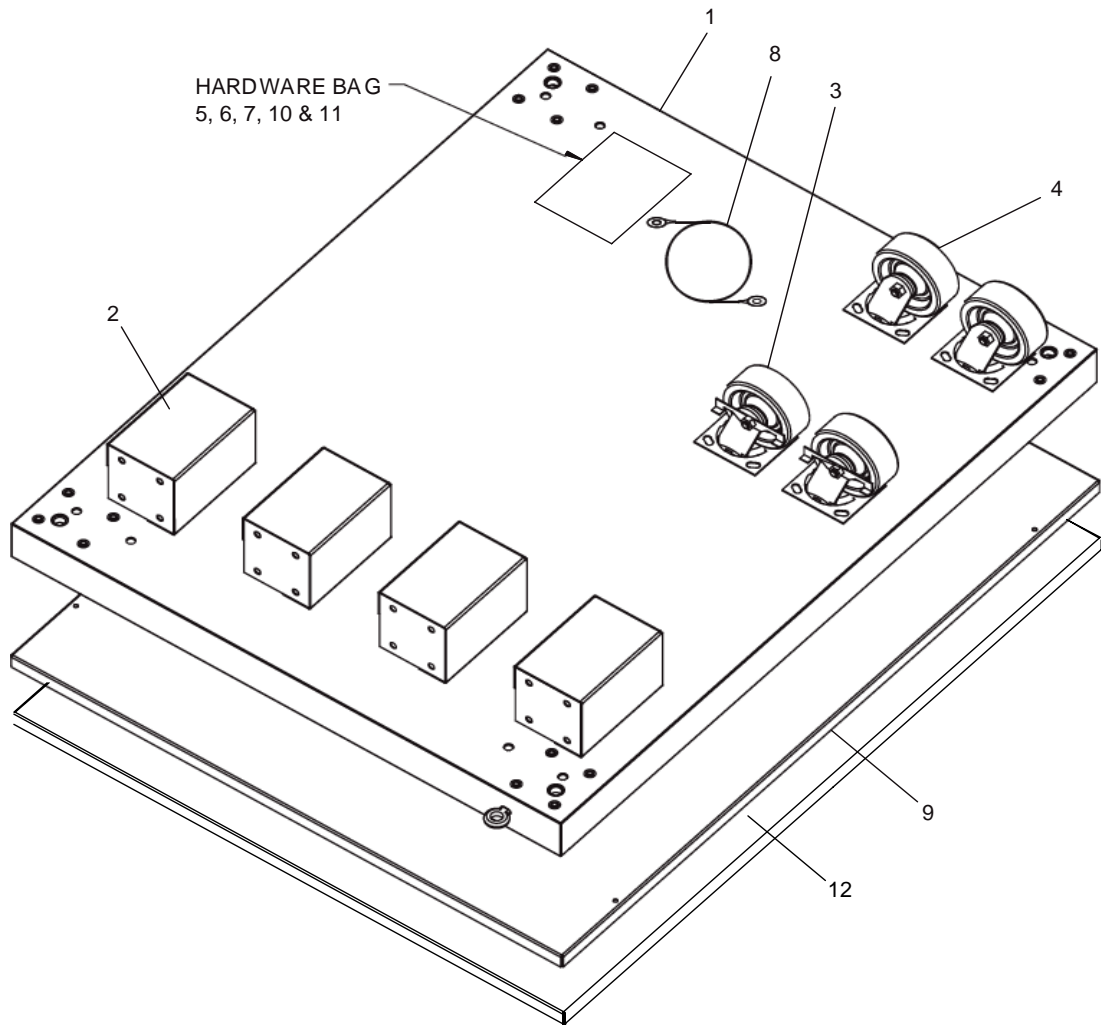
**Figure 2-3A. Model PS640 24" Double Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 SERIES 24" DOUBLE OVEN OPTION - BASE w/6" LEGS & TOP
P/N 61457**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	61126	COMPLETE BASE WELDMENT
2	4	37900-0102	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1 HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	61125	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	61128	SUPPORT, SHELF

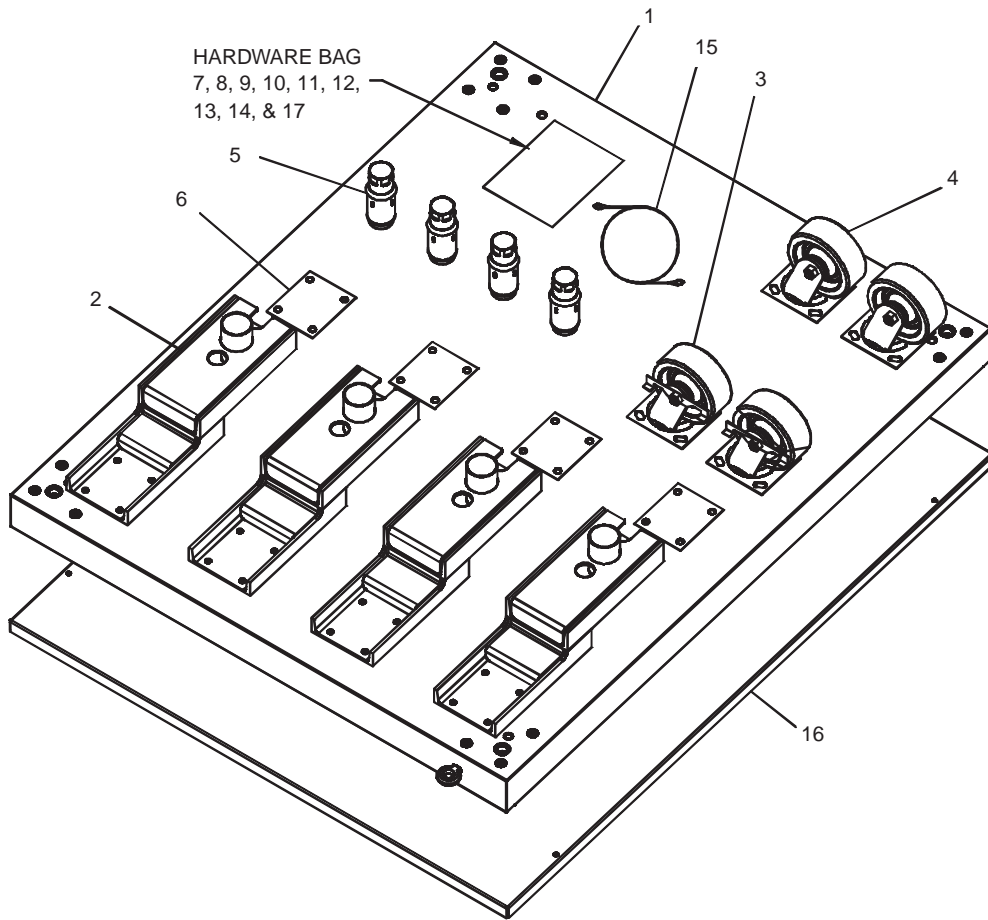
**Figure 2-3B. Model PS640 32" Double Oven
Option Base with Legs and Top**



**PARTS LIST FOR PS640 SERIES 32" DOUBLE OVEN OPTION - BASE w/6" LEGS & TOP
P/N 59725**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	60287	COMPLETE BASE WELDMENT
2	4	37900-0102	TOP PLATE, LEG WELDMENT
3	2	22290-0009	SWIVEL CASTER W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER FLAT PLATE
5	32	2000531	3/8"-16 x 1 HEX SCREW, SST
6	32	21416-0001	3/8" FLAT WASHER, SS
7	32	21422-0001	3/8" SPLIT LOCK WASHER, ZP
8	1	22450-0228	RESTRAINT CABLE ASSEMBLY
9	1	59560	TOP COVER
10	2	59677	SCR, MS SL TR HD 10-32 x 2-1/2"
11	2	7A2S15	SCR, MS STR TRSHD 10-32 x 3/4"
12	1	59724	SUPPORT, SHELF

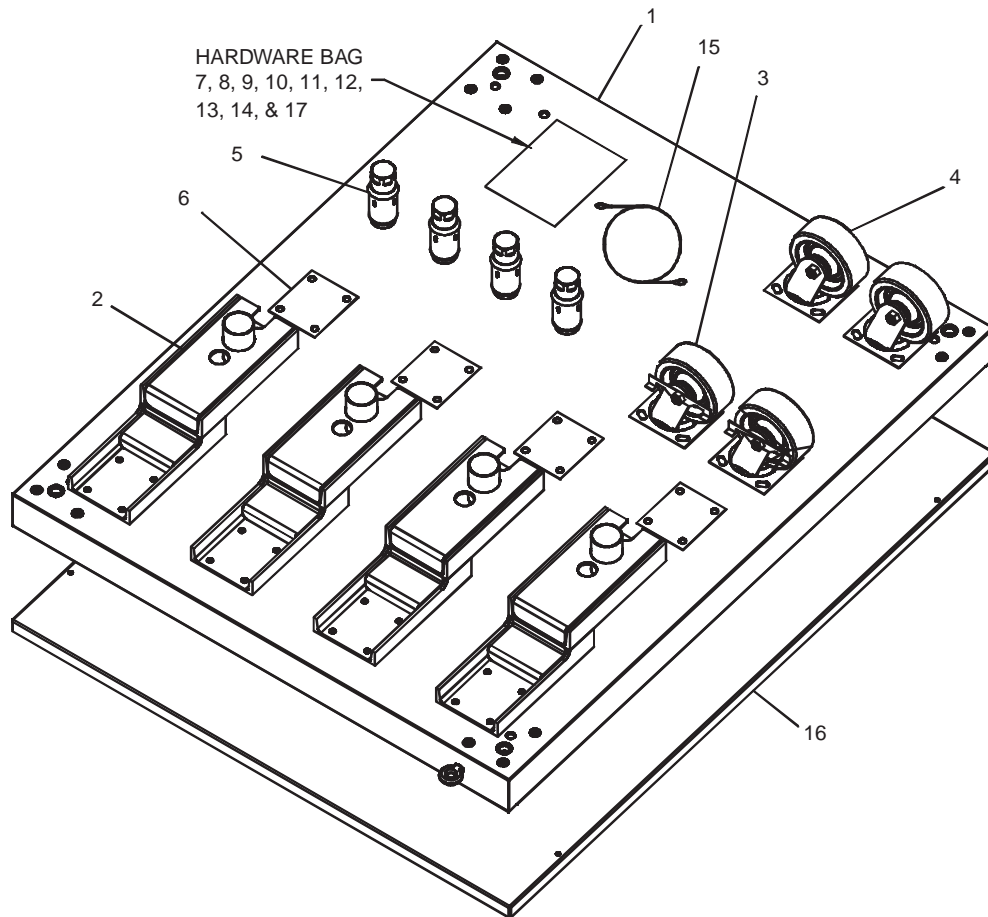
**Figure 2-4A. Model PS640 24" Triple Oven
Option Base with Outriggers and Top**



**PARTS LIST FOR PS640 SERIES 24" TRIPLE OVEN OPTION - BASE w/CASTERS & TOP
P/N 61458**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	61126	COMPLETE BASE WELDMENT
2	4	45209	QUAD OUTRIGGER WELDMENT
3	2	22290-0009	SWIVEL CASTER, W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER, FLAT PLATE
5	4	45206	INSERT,QUAD ADJUSTMENT FOOT
6	4	45205	SPACER,QUAD CASTER
7	32	A27727	3/83 -16x1-1/4 HEX BOLT
8	32	A21924	3/83 FLAT WASHER, SS
9	32	21422-0001	3/83 SPLIT LOCK WASHER, ZP
10	16	21172-0004	3/83 -16 NYLON INSULATED LOCKNUT, ZC
11	8	2001048	1/23 -13 x 1-3/8 18-8 HEX CAPSCREW
12	8	A27750	1/23 18-8 FLAT WASHER
13	8	21422-0016	1/23 18-8 LOCK WASHER
14	2	59677	SCR, MS SL TR HD 10-32X2-1/2
15	1	22450-0228	RESTRAINT CABLE ASSEMBLY
16	1	61125	TOP COVER
17	2	7A2S15	SCR, MS STR TRSHD 10-32X3/4"

**Figure 2-4B. Model PS640 32" Triple Oven
Option Base with Outriggers and Top**



**PARTS LIST FOR PS640 SERIES 32" TRIPLE OVEN OPTION - BASE w/CASTERS & TOP
P/N 59726**

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	60287	COMPLETE BASE WELDMENT
2	4	45209	QUAD OUTRIGGER WELDMENT
3	2	22290-0009	SWIVEL CASTER, W/BRAKE FLAT PLATE
4	2	22290-0010	SWIVEL CASTER, FLAT PLATE
5	4	45206	INSERT,QUAD ADJUSTMENT FOOT
6	4	45205	SPACER,QUAD CASTER
7	32	A27727	3/83 -16x1-1/4 HEX BOLT
8	32	A21924	3/83 FLAT WASHER, SS
9	32	21422-0001	3/83 SPLIT LOCK WASHER, ZP
10	16	21172-0004	3/83 -16 NYLON INSULATED LOCKNUT, ZC
11	8	2001048	1/23 -13 x 1-3/8 18-8 HEX CAPSCREW
12	8	A27750	1/23 18-8 FLAT WASHER
13	8	21422-0016	1/23 18-8 LOCK WASHER
14	2	59677	SCR, MS SL TR HD 10-32X2-1/2
15	1	22450-0228	RESTRAINT CABLE ASSEMBLY
16	1	59560	TOP COVER
17	2	7A2S15	SCR, MS STR TRSHD 10-32X3/4"

V. KEY SPARE PARTS KIT # 60904 – Available separately. See Figure 4-8. This Page Updated 8-20-2015

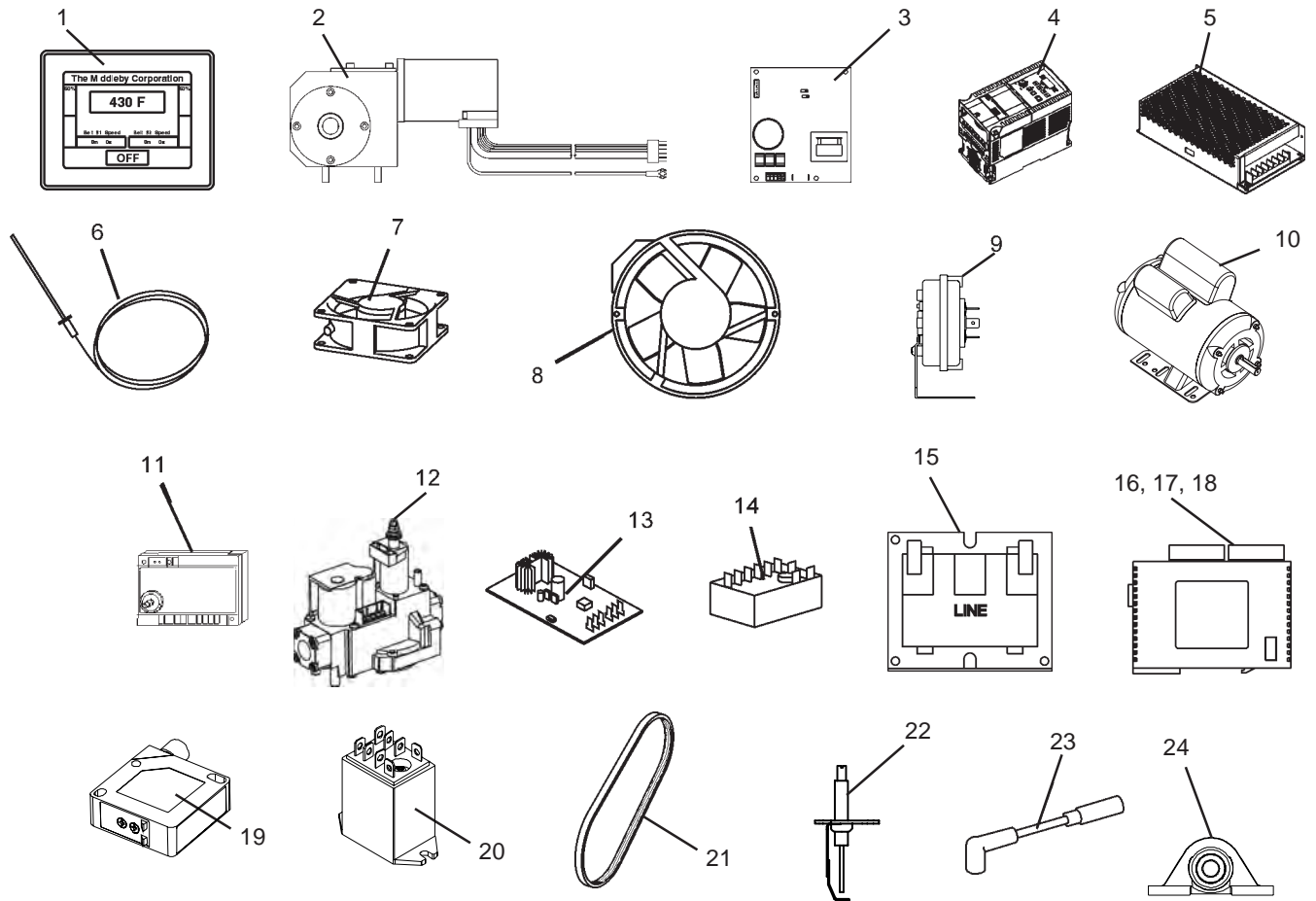
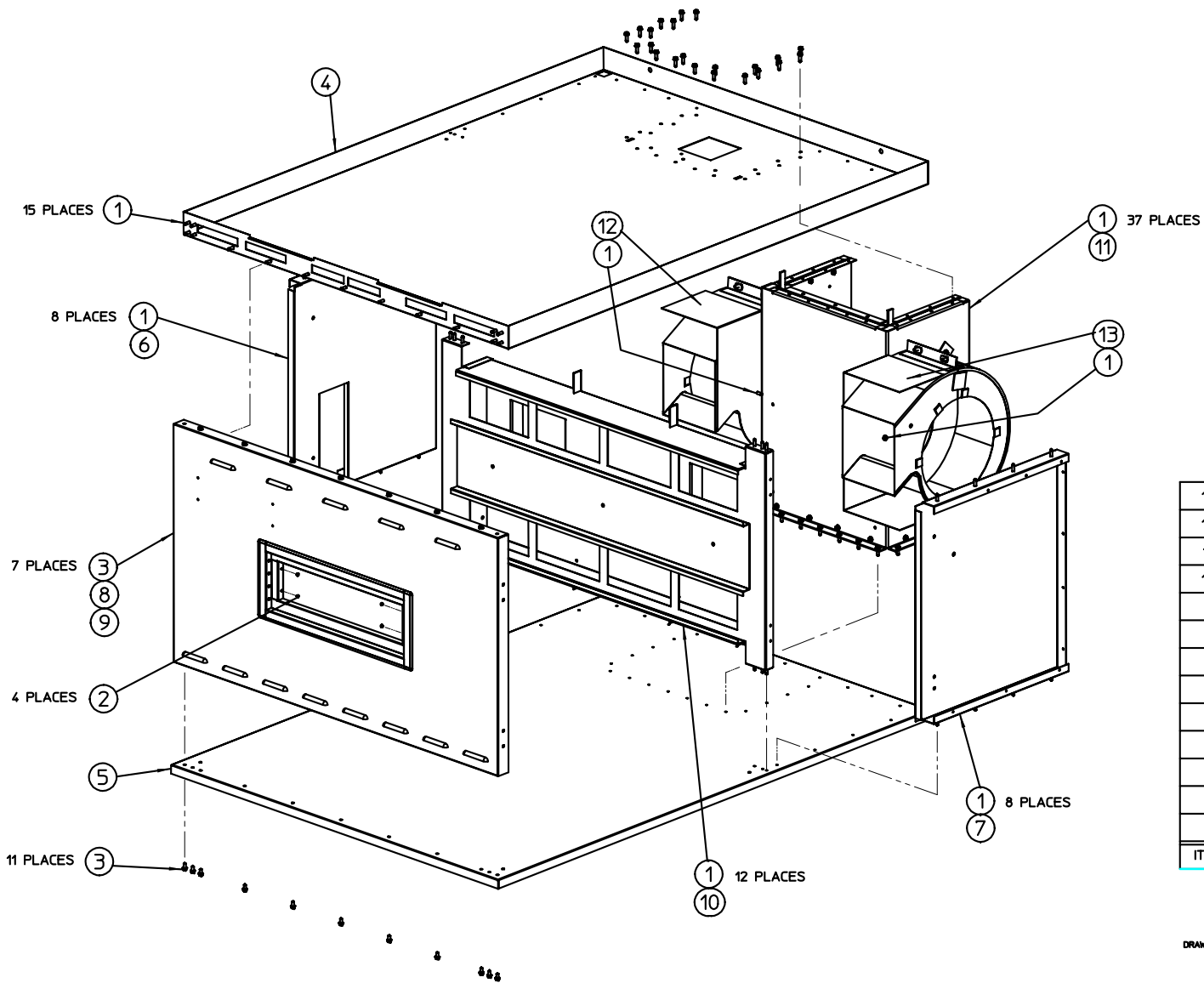


Figure 4-8. Key Spare Parts
KEY SPARE PARTS PS640 GAS

ITEM	QTY.	P/N	DESCRIPTION
1	1	67050	Digital Display, Programmed
2	1	58920	Motor, Conveyor Drive
3	1	66759	Conveyor Control Board
4	1	70884	Inverter, Programmed
5	1	69533	Power Supply
6	1	33984	Kit, Thermocouple
7	1	65061	Fan Cooling Control (97525 until 7/2011)
8	1	51399	Fan Cooling Rear
9	1	60598	Air Switch
10	1	57288	Motor, Blower
11	1	62285	Ignition Module
12	1	60679	Assy, Valve Gas Modulating
13	1	60671	Board, Signal Cond. 0-15VDC
14	1	33983	High Limit Control Module,240V
15	2	32108	Transformer,240Vp:24Vs
16	1	67052	PLC Module, Programmed
17	1	58668	Thermocouple Module
18	1	58669	Current Module
19	1	60185	PhotoCell
20	2	59132	Relay, DPDT 24V Coil
21	1	59668	Belt, Blower
22	1	71037	Ignitor, Single Rod
23	1	50240	Ignition Cable, 25"
24	1	68371	Bearing, PB 5/8 Bore



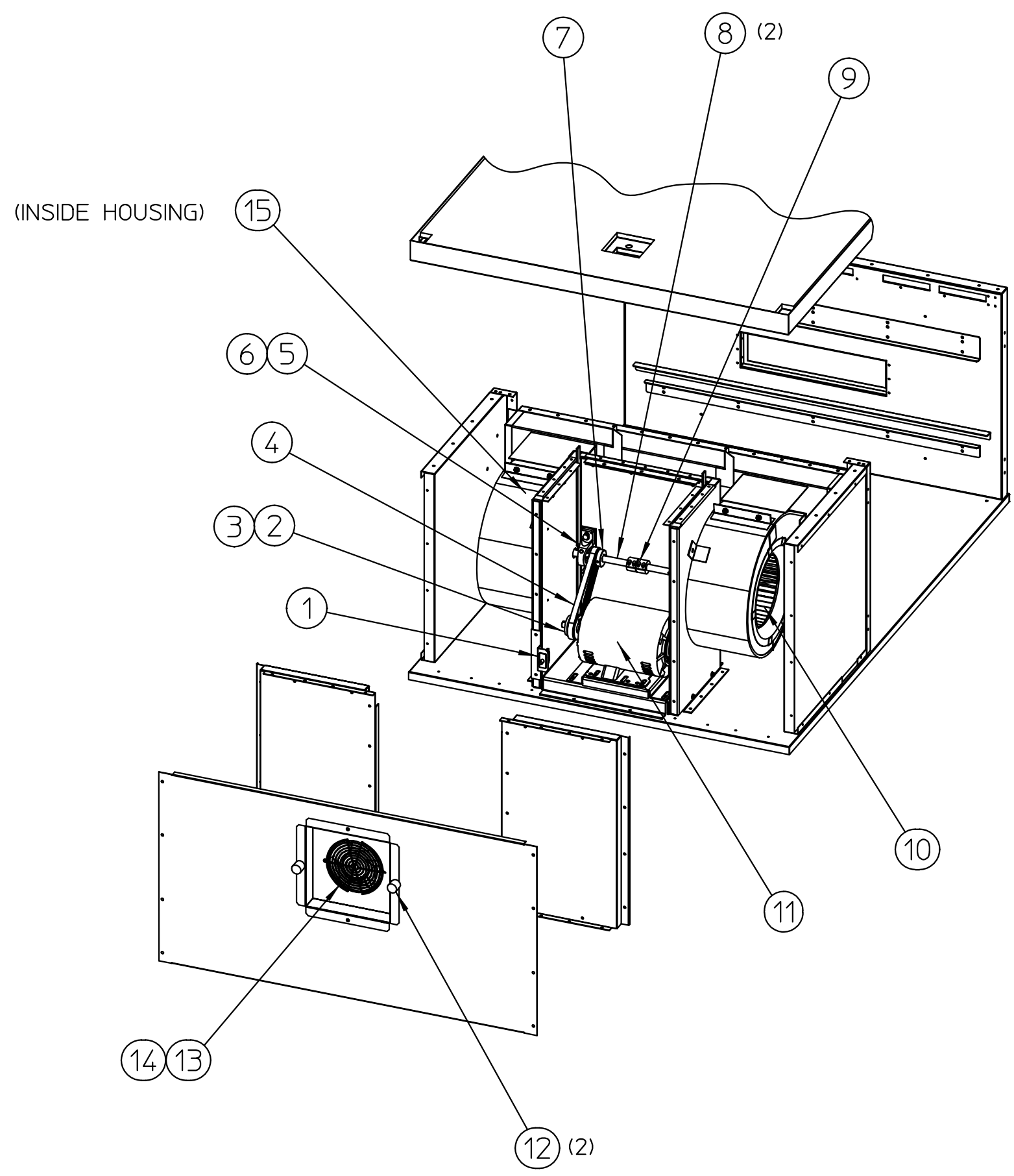
13	1	60818	WLDMT,HEAT REFLECT RH
12	1	60817	WLDMT,HEAT REFLECT LH
11	1	59569	ASSY,BLWR MTG
10	1	59567	WLDMT,PLENUM
9	1	59536	ASSY,FRT PNL INR
8	1	59533	ASSY,FRT PNL/WINDOW
7	1	59433	PANEL,INR RR SIDE RH
6	1	59432	PANEL,INR RR SIDE LH
5	1	59309	PANEL,FLOOR
4	1	59308	PANEL,ROOF
3	18	50281	SCR,#12X1/2 SL HX W/HO T/S ZC
2	4	21516-0001	RIVET,POP STY1 #43 GR51 SS
1	67	21296-0005	SCR,HX WSHHD 12-14X3/4 SS BSD
ITEM	QTY	PART NO.	DESCRIPTION

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 015 THE MIDDLEBY CORPORATION
 .005 .005 1400 Toastmaster Drive
 Elgin, Illinois 60120
 847-741-33

DRAWN

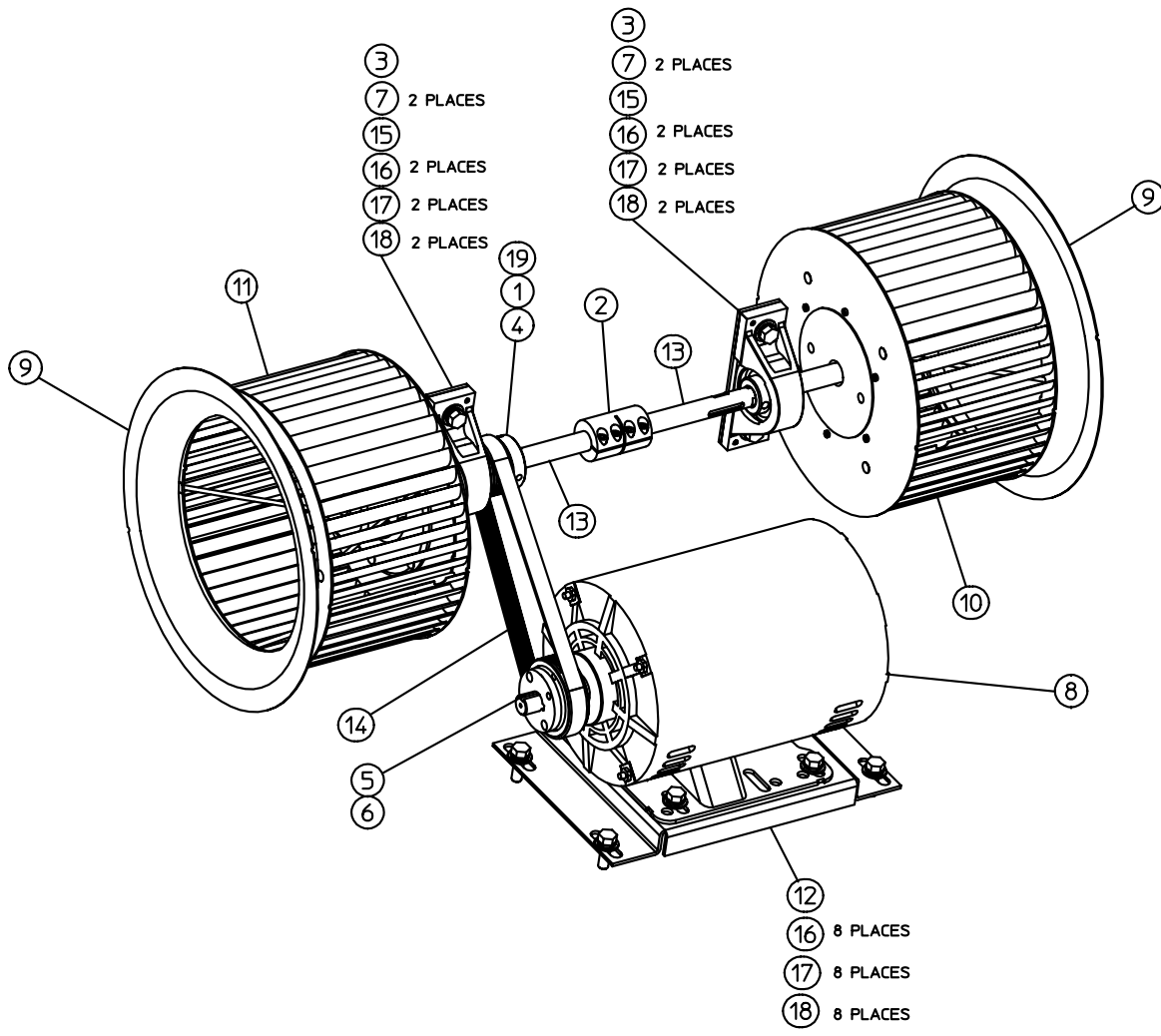
ASSY,CAVITY MINI-WOW

60583



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	63910	SWITCH, MOMENTARY 10A NO 2 POLE
2	1	50260	SHEAVE, POLY V 6J25G
3	1	50259	BUSHING, G 5/8
4	1	59668	BELT, POLY-V 220J6
5	2	64106	BEARING, DODGE 5/8
6	2	50160	PLATE, SHIM PS536
7	1	50224	SHEAVE, POLY V 5/8X6J18
8	2	59504	SHAFT, BLOWER1
9	1	44748	COUPLING, COMPRESSION
10	1	59409	WHEEL, BLOWER CCW
11	1	57288	MOTOR, 2 HP 230/460V 1725 RPM
12	2	30927	BUMPER, WINDOW PS570S
13	1	31497	GUARD, COOLING FAN 360WB
14	1	51399	FAN, COOLING 230VAC 295 CFM
15	1	59411	WHEEL, BLOWER CW

PS640/PS740/PS840 BLOWERS
AND
PS640VE2/PS740VE2/PS840VE2 BLOWERS



- ③ 2 PLACES
- ⑦ 2 PLACES
- ⑮ 2 PLACES
- ⑯ 2 PLACES
- ⑰ 2 PLACES
- ⑱ 2 PLACES

- ③
- ⑦ 2 PLACES
- ⑮ 2 PLACES
- ⑯ 2 PLACES
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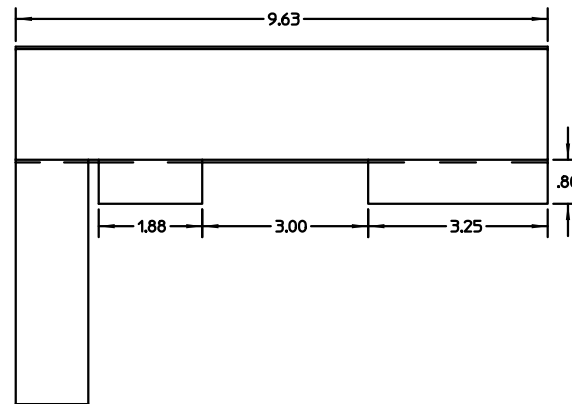
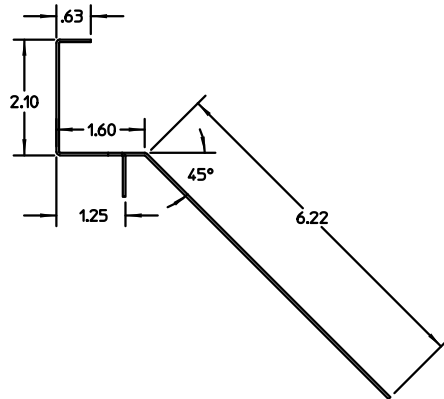
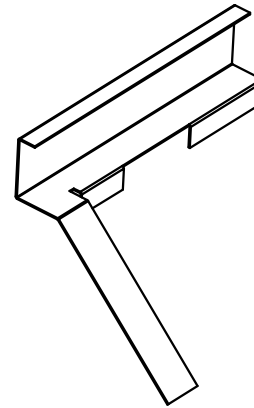
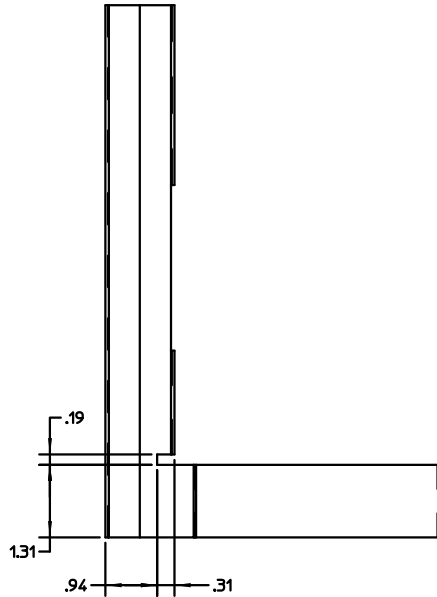
- ⑫ 8 PLACES
- ⑯ 8 PLACES
- ⑰ 8 PLACES
- ⑱ 8 PLACES


ITEM	QTY	PART NO.	DESCRIPTION
19	2	DROPS 220004	SEALANT, LOCKTITE 242 THDLK BLUE
18	12	B301A8847	WASHER,FLAT 5/16 X 3/4 X 1/16
17	12	A3682	WASHER,LOCK 5/16
16	12	A11687	SCR,HH 5/16-18X7/8
15	2	60636	BEARING,PB 5/8 BORE KRYTOX
14	1	59668	BELT,POLY-V 220J6
13	2	59504	SHAFT,BLOWER
12	1	59492	WLDMT,MTR MTG BRKT
11	1	59411	WHEEL,BLOWER CW
10	1	59409	WHEEL,BLOWER CCW
9	2	59407	RING,INLET BLOWER
8	1	57288	MOTOR,2HP 230/460V 1725 RPM
7	4	50271	PIN,ROLL PLN 5/32 X 5/8
6	1	50260	SHEAVE,POLY V 6J25G
5	1	50259	BUSHING,G 5/8
4	1	50224	SHEAVE,POLY V 5/8X6J18
3	2	50160	PLATE,SHIM PS536
2	1	44748	COUPLING,COMPRESSION
1	1	21651-0010	KEY,SQ 3/16X3/16X100 STL

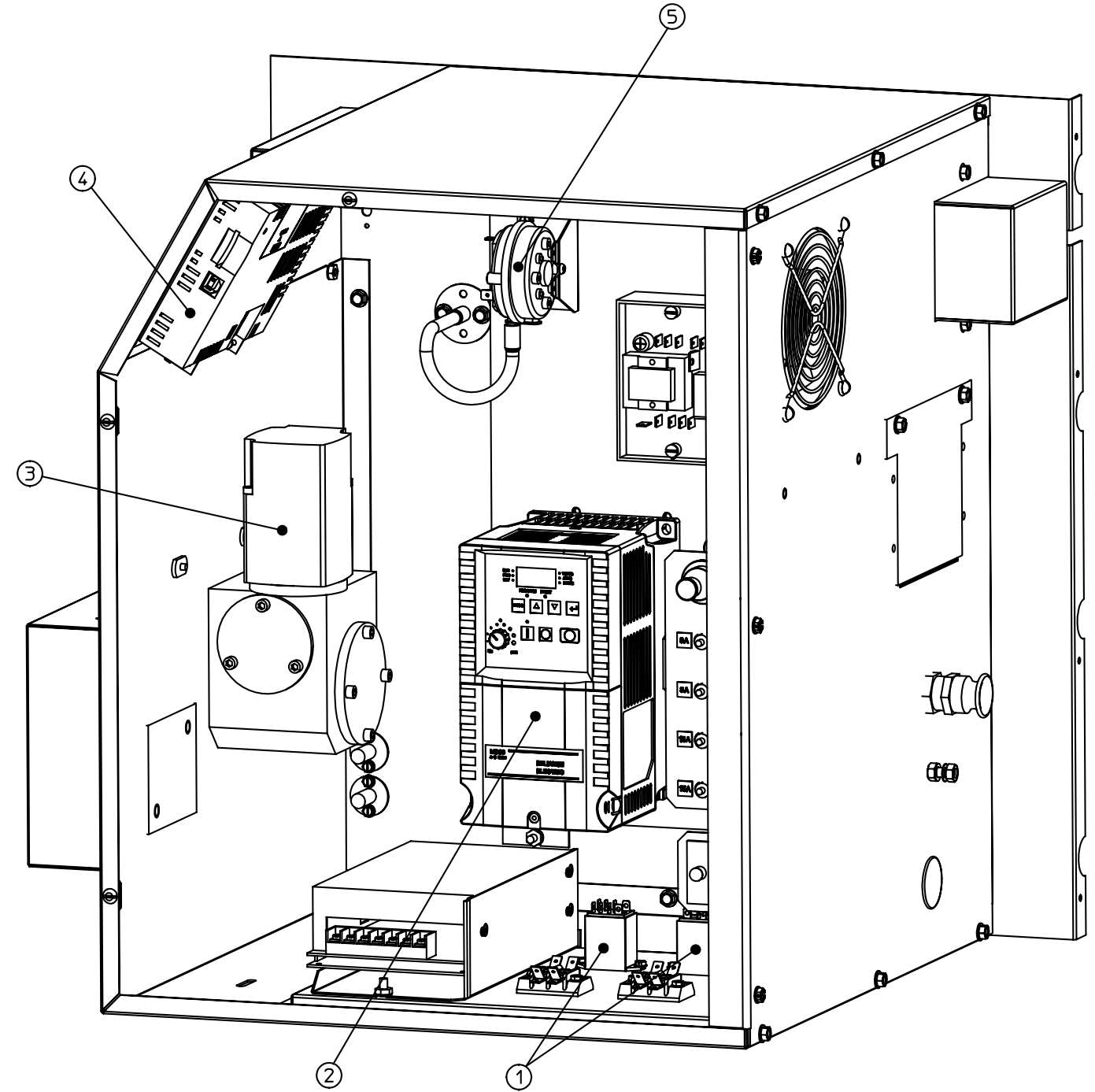
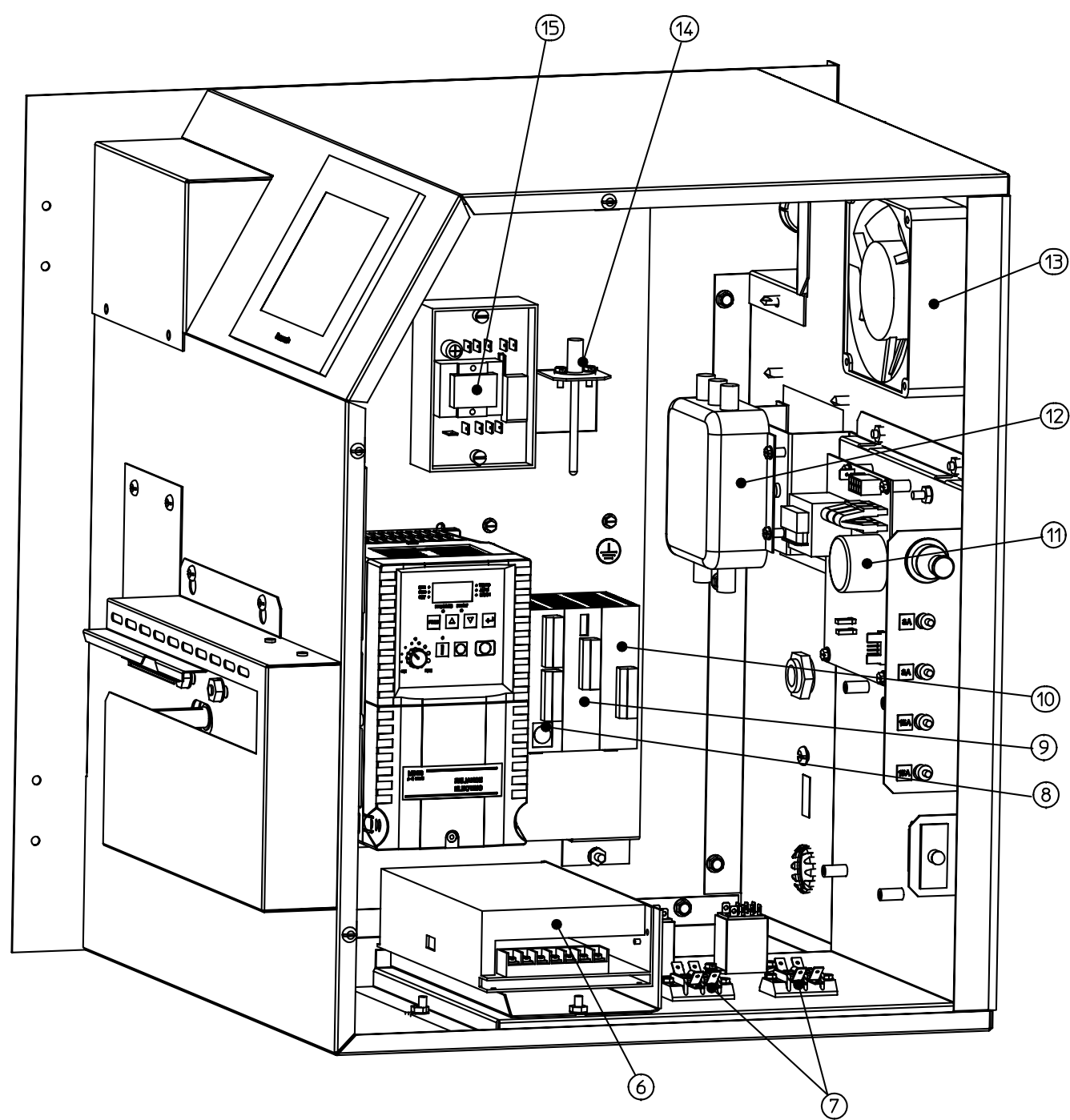
MATERIAL GAUGE: TOLERANCE UNLESS SPECIFIED ANGLES ± 1.0° DEC .X ± .030 .XX ± .015 .XXX ± .005
 FINISH
 THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION
 1400 Toetmester Drive
 Elgin, Illinois 60120
 847-741-3300

ASSY, BLOWER COMP PS640 / 740 / 840

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING
 PART NO 60225 SHIT 1 OF 1 REV C

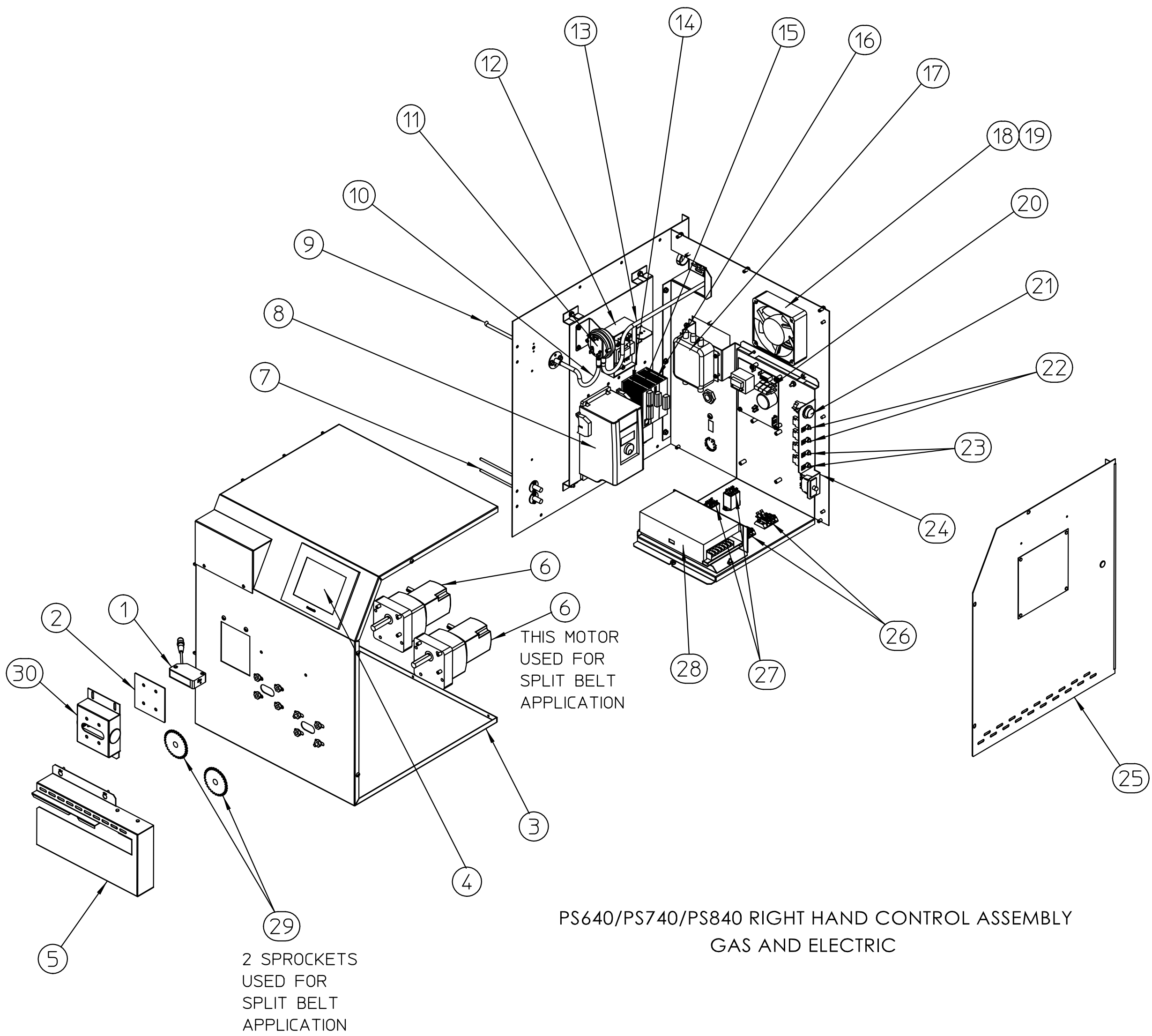


NOTES: - PART TO BE FREE OF ALL BURRS AND SHARP EDGES. - ALL BENDS MUST BE 90°. UNLESS OTHERWISE SPECIFIED. - ALL RADII MUST CONFORM TO THE FOLLOWING CHART, UNLESS OTHERWISE SPECIFIED.		MATERIAL T430 SS	GAUGE: 18GA	TOLERANCE UNLESS SPECIFIED ANGLES ± 1.0° DEC .X ± .030 .XX ± .015 .XXX ± .005	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF  THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300			
FINISH MILL	DRAWN JM	CHECKED 06/21/2011	APPROVED	TOOL , BELT ALIGNMENT				
RAD	GAUGE		ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING			PART NO 6 6 7 8 6	SHT 1 OF 1	REV A 1
.015	24 (.024) GA. TO 18 (.048) GA.							
.031	16 (.060) GA. TO 13 (.090) GA.							
.062	12 (.105) GA. TO 7 (.187) GA.							

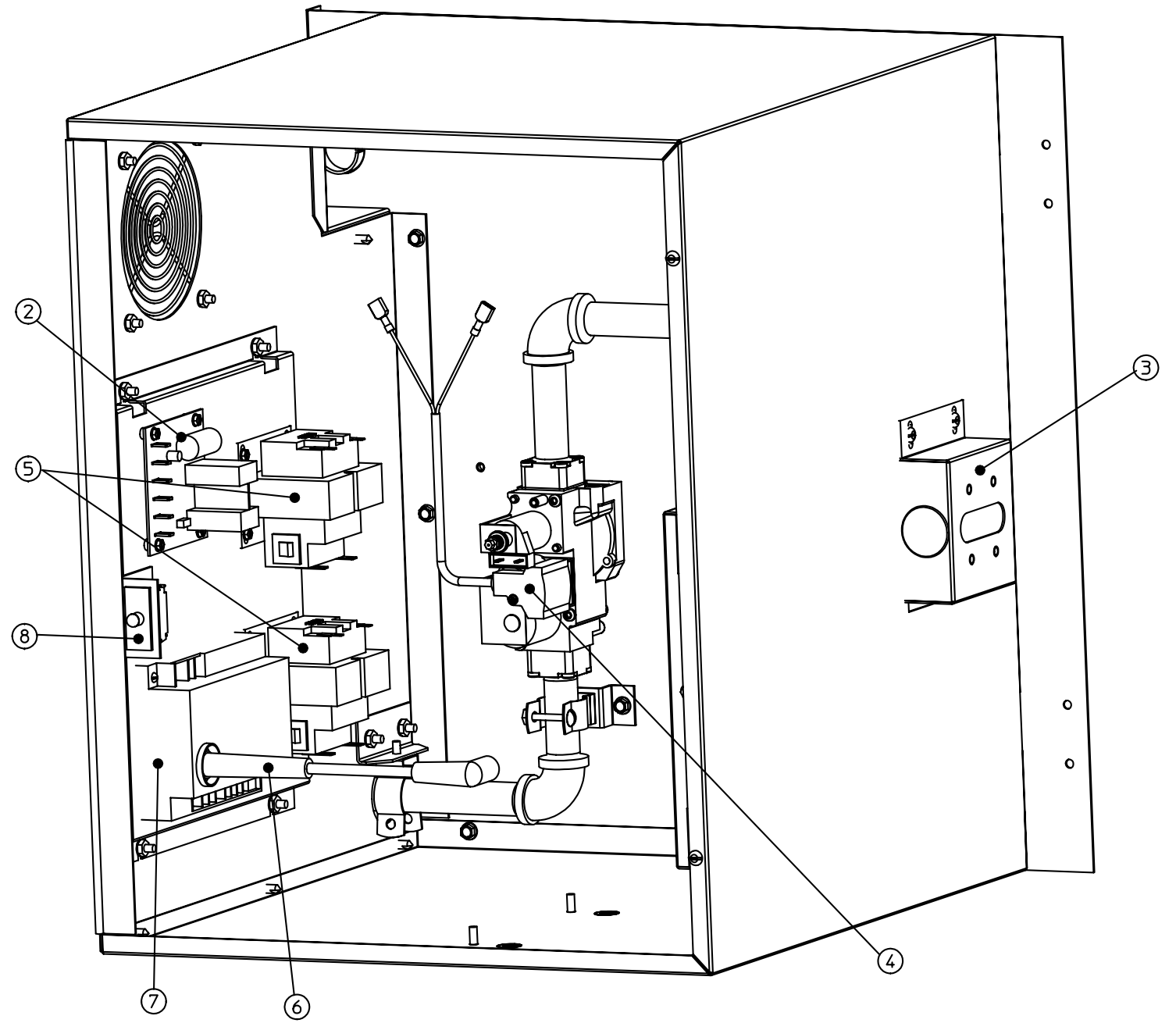
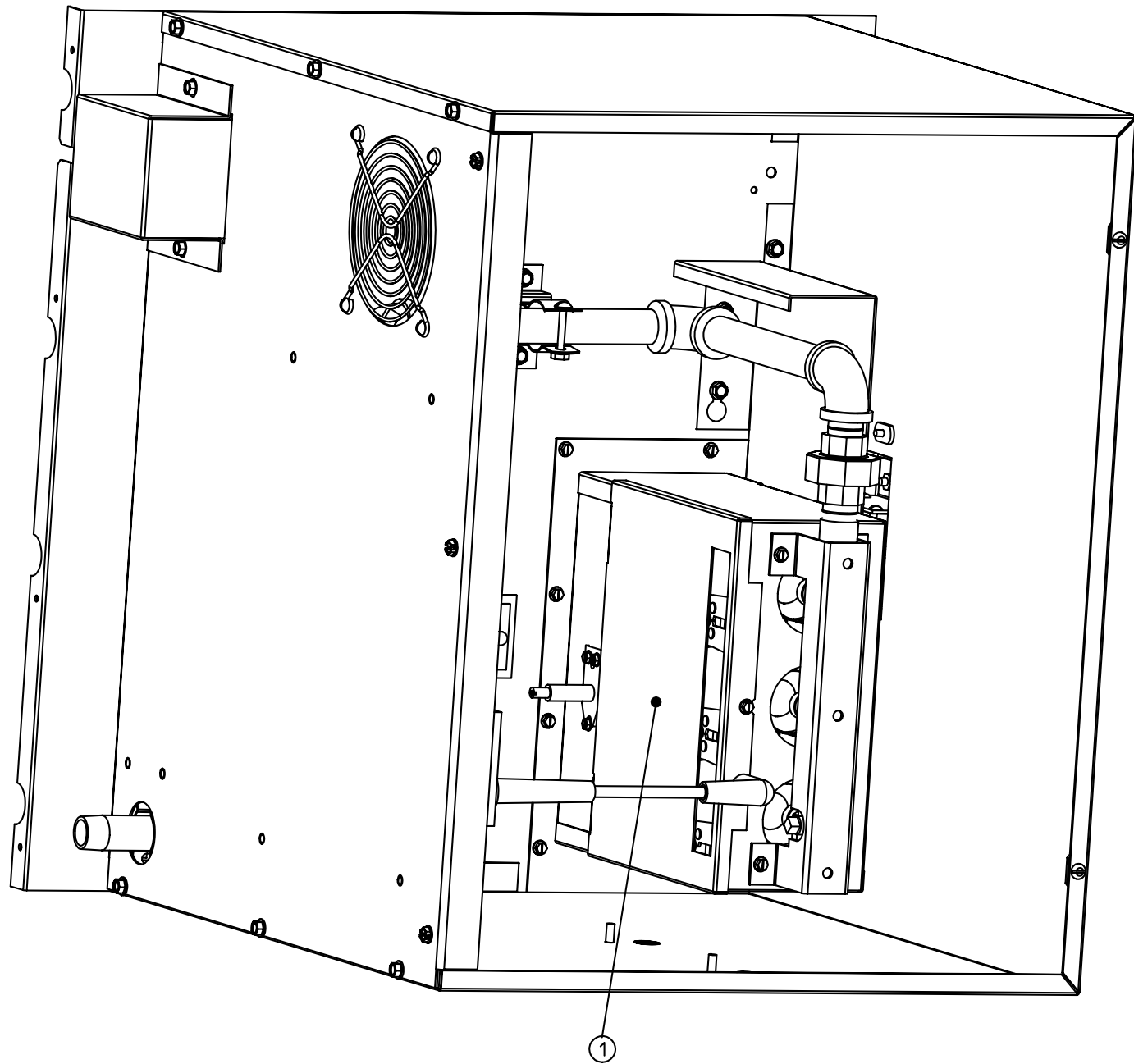


8	1	60193	CONTROL,C14RS PROG 640/840G	15	1	33983	CNTRL,ELEC HI-LIMIT 240V
7	2	M0593	BLOCK,TERMINAL	14	1	33812-8	TC,TYPE 'J' SHIELDED 2.50X60"
6	1	59326	ASSY,POWER SUPPLY 24VDC	13	1	97525	FAN,230V
5	1	60598	SWITCH,AIR .13 WC (CLEVELAND)	12	1	33813	FILTER,RFI TYPE F1780DD20
4	1	60680/60681	TOUCHSCREEN,COLOR GT32/TOUCHSCREEN,B & W GT32	11	1	58679	CONTROLLER,TYPE DBL-2302 DC
3	1	58920	MTR,GEAR 1/24HP 1350:1 130VDC	10	1	58669	CONVERTER,DIGITAL FPO-A041
2	1	60192	INVERTER,AC PRGMD 640/740G	9	1	58668	THERMOCOUPLE,DIGITAL FPO-TC4
1	2	59132	RELAY,DPDT 24VDC COIL				
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION

MATERIAL	GUAGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH		ANGLES ± 1.0°	
DRAWN	CHECKED	APPROVED	
CONTROL RH PS640G PARTS			
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING		PART NO	SHT OF REV

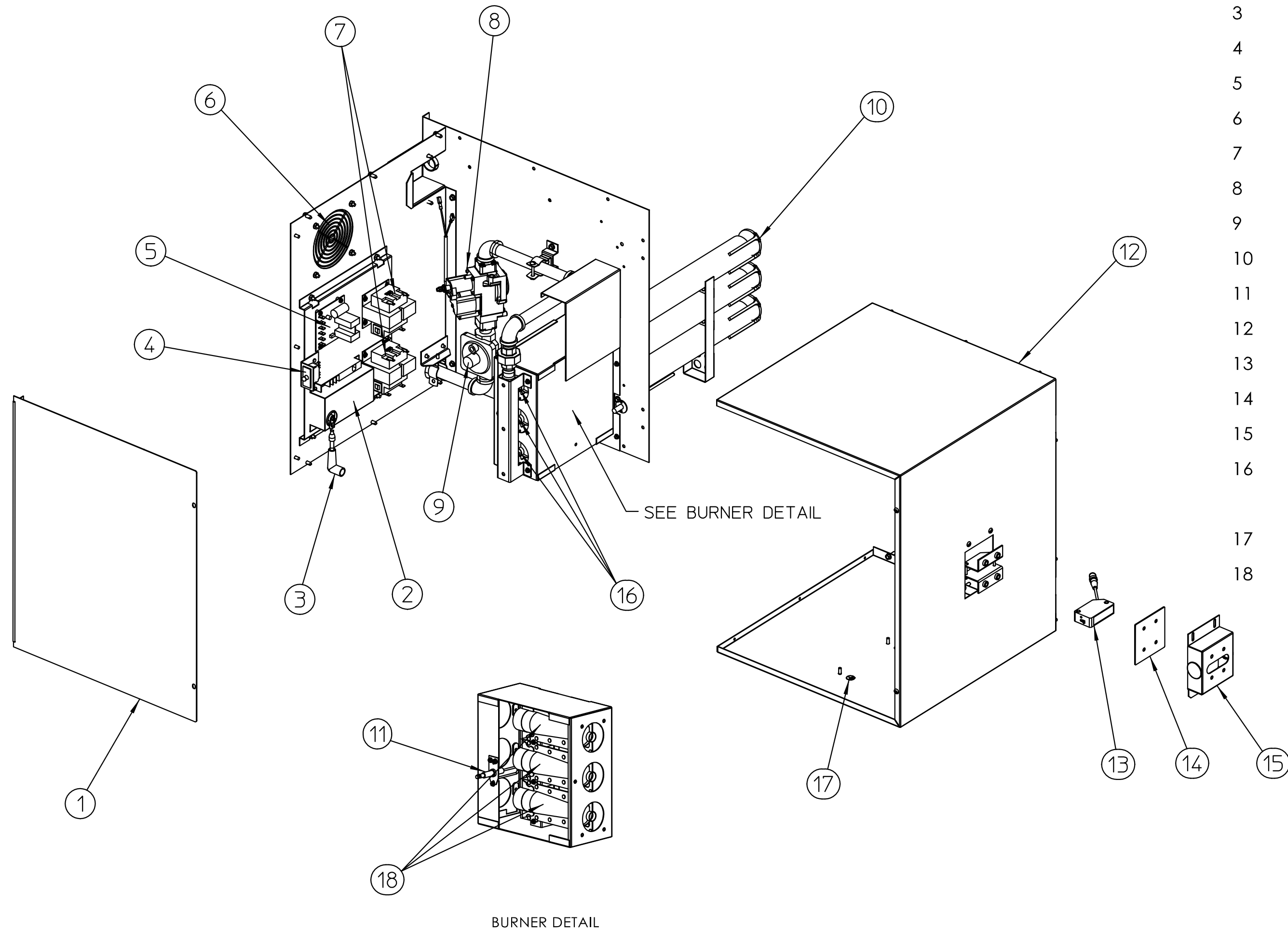


ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	60185	SENSOR, ALLEN-BRADLEY 42BT
2	1	60314	PLASTIC, 3.75 X 3.75 X .063
3	1	59595	ASSY, CONTROL BOX/PEM RH
4	1	60190	DISPLAY, GT32 COLOR PROGRAMMED
5	1	59638	ASSY, CHAIN COVER
6	1	62342	MOTOR, GEAR 600:1 130V PARALLEL
7	2	38812-1	THERMOCOUPLE, TYPE J SHIELDED 6.00 X 120"
8	1	60192	INVERTER, AC PROG. 640/740G (GAS ONLY)
	1	60638	INVERTER, AC PROG. 640/740E (ELECTRIC ONLY)
9	1	59572	PROBE, AIR SENSING 8.00 LONG
10	1	60635	TUBE, AIR SWITCH
11	1	62044	SWITCH, AIR .08WC (CLEVELAND)
12	1	33983	CONTROL, ELEC HI-LIMIT 240V
13	1	62045	TUBE, AIR SWITCH 18"
14	1	60684	CONTROL, C14RS PROGRAMMED 640/740/840
15	1	58688	THERMOCOUPLE, DIGITAL FP0-TC4
16	1	58669	CONVERTER, DIGITAL FP0-A04I
17	1	33813	FILTER, RFI TYPE F1780DD20
18	1	97525	FAN, 230VAC
19	1	27470-0047	GUARD, FAN
20	1	58679	CONTROLLER, TYPE DBL-2302 DC
21	1	35145	SWITCH, PB MOLVENO 250V
22	2	45036	BREAKER, CIRCUIT 240V 3A
23	2	45037	BREAKER, CIRCUIT 240V 15A
24	1	63909	SWITCH, INTERLOCK 10A NO 2 POLE
25	1	60167	ASSY, CONTROL DOOR RH
26	2	M0593	BLOCK, TERMINAL 2 POLE
27	2	59132	RELAY, DPDT 24VDC COIL
28	1	M9608	POWER SUPPLY, 24VDC S150-24
29	1	22159-0004	SPROCKET, #25 30 TOOTH 1/2" BORE
30	1	60312	ASSEMBLY, COVER PHOTOEYE/PEM



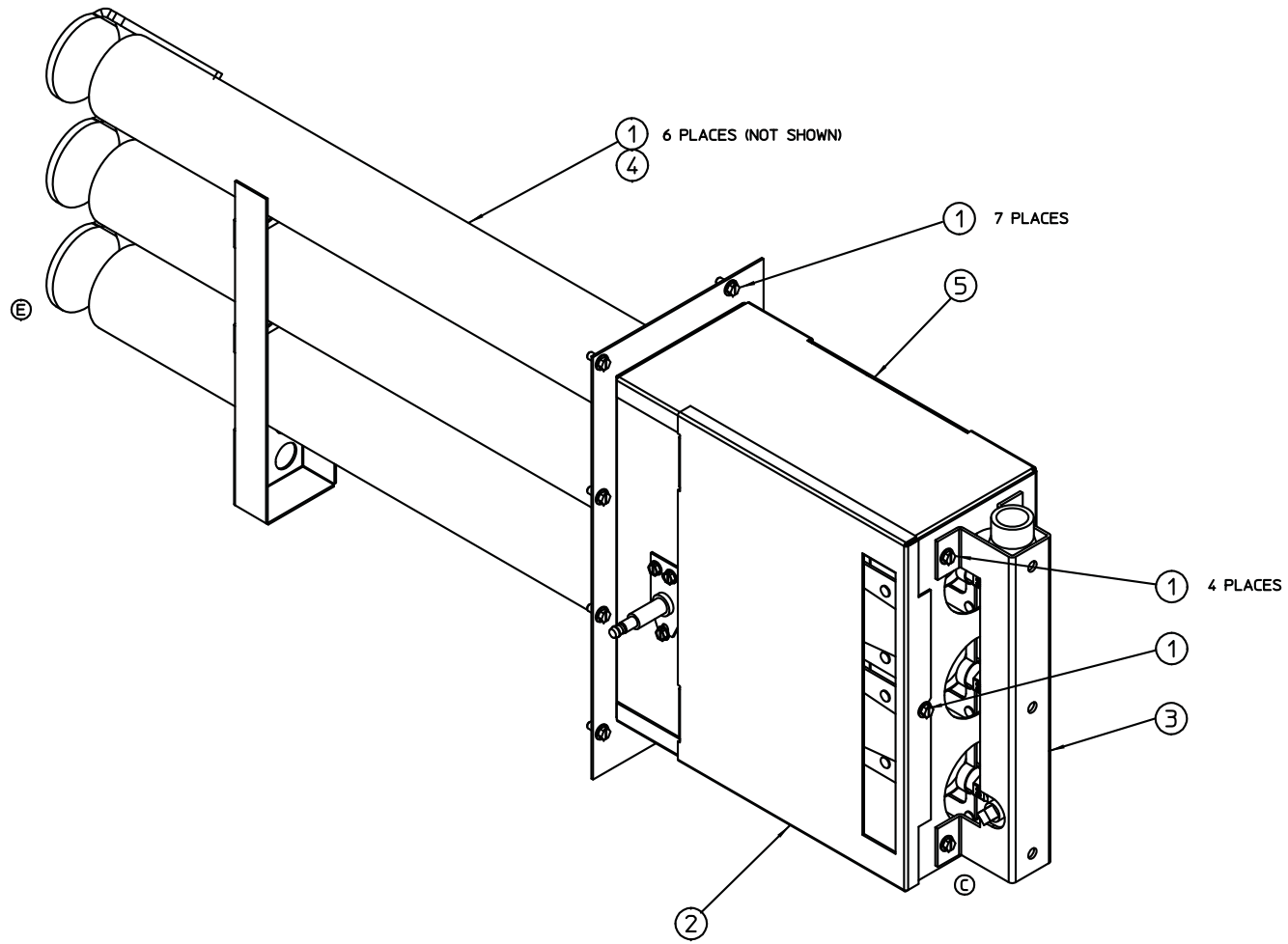
8	1	28021-0047	SWITCH,INTLCK 10A N02P
7	1	61602	IGNITION,SPARK MODULE
6	1	50240	CABLE,IGNITION 25INCH
5	2	32108	XFMR,240V PRI 24V 65VA SEC
4	1	60679	ASSY,VALVE GAS MOD HNYWL
3	1	60315	ASSY,PHOTOEYE SENSOR
2	1	60671	BOARD,SIGNAL COND 0-15VDC
1	1	59921	ASSY,INSHOT MANF
ITEM	QTY	PART NO.	DESCRIPTION

MATERIAL	GAUGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH		ANGLES $\pm 1.0^\circ$	
DRAWN	CHECKED	APPROVED	
CONTROL LH PS640G PARTS			
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING		PART NO	SHT OF REV



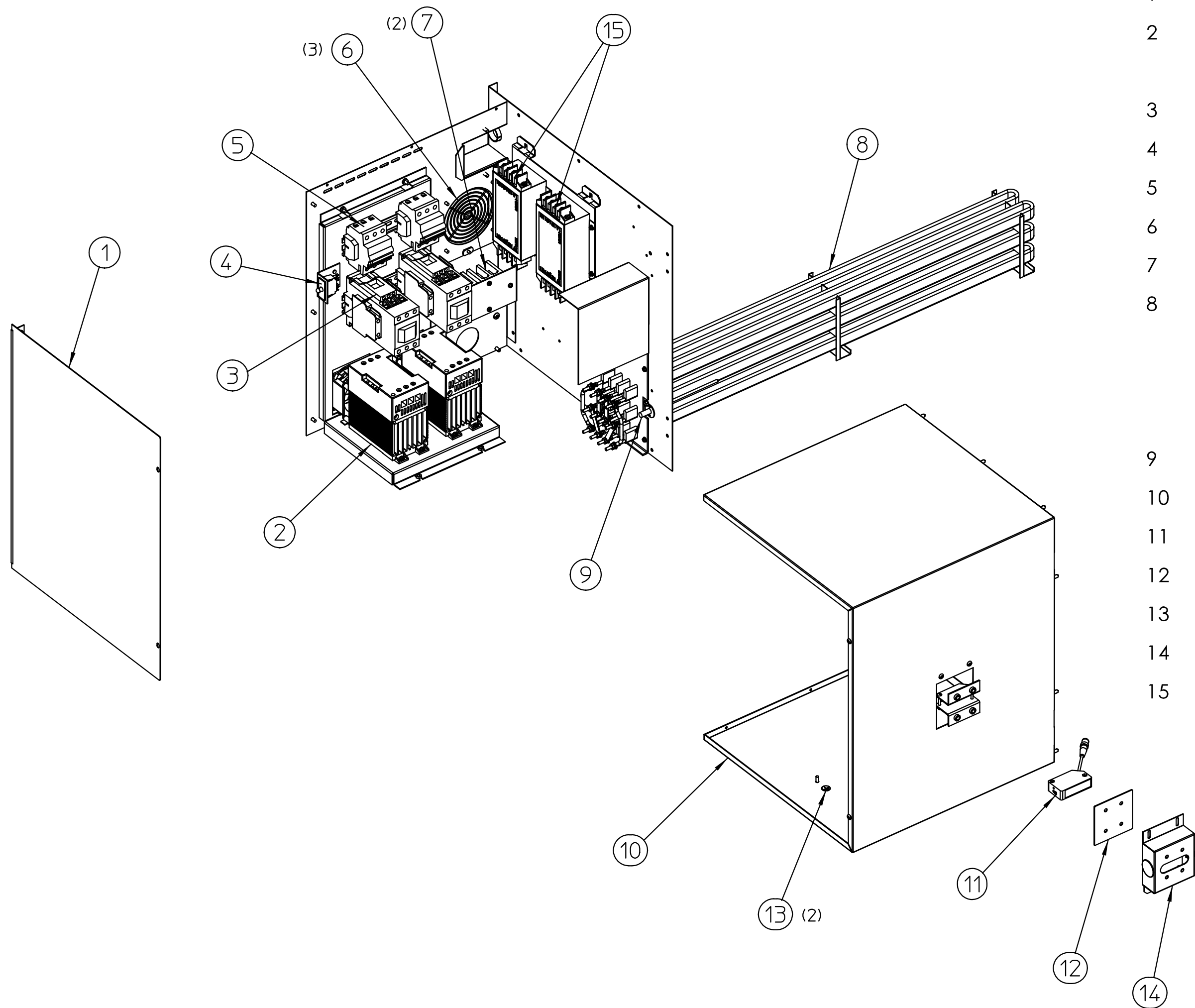
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	59609	WELDMENT, CONTROL DOOR LH
2	1	61602	IGNITION, SPARK MODULE
3	1	62282	CABLE, IGNITION 24 INCH
4	1	63909	SWITCH, INTERLOCK 10A NO 2 POLE
5	1	60671	BOARD, SIGNAL CONDITIONER
6	1	27470-0004	GUARD, FAN
7	2	32108	TRANSFORMER, 240V PRI 24V 65VA SECONDARY
8	1	60679	ASSY, GAS VALVE MOD HONEYWELL
9	1	64169	REGULATOR, GAS 1/2 X 1/2
10	1	59916	WELDMENT, BURNER TUBE
11	1	62288	ELECTRODE
12	1	59394	WELDMENT, CONTROL BOX LH
13	1	60185	SENSOR, ALLEN-BRADLEY 42BT
14	1	60314	PLASTIC, 3.75 X 3.75 X .063
15	1	60312	ASSEMBLY, COVER PHOTOEYE/PEM
16	3	60940	ORIFICE, MAIN NAT #36 (.1065)
	3	60941	ORIFICE, MAIN LP #51 (.067)
17	1	32127	LABEL, GROUND SYM EL
18	3	59434	BURNER, INSHOT 40K

PS640G/PS740G/PS840G LEFT HAND CONTROL ASSEMBLY



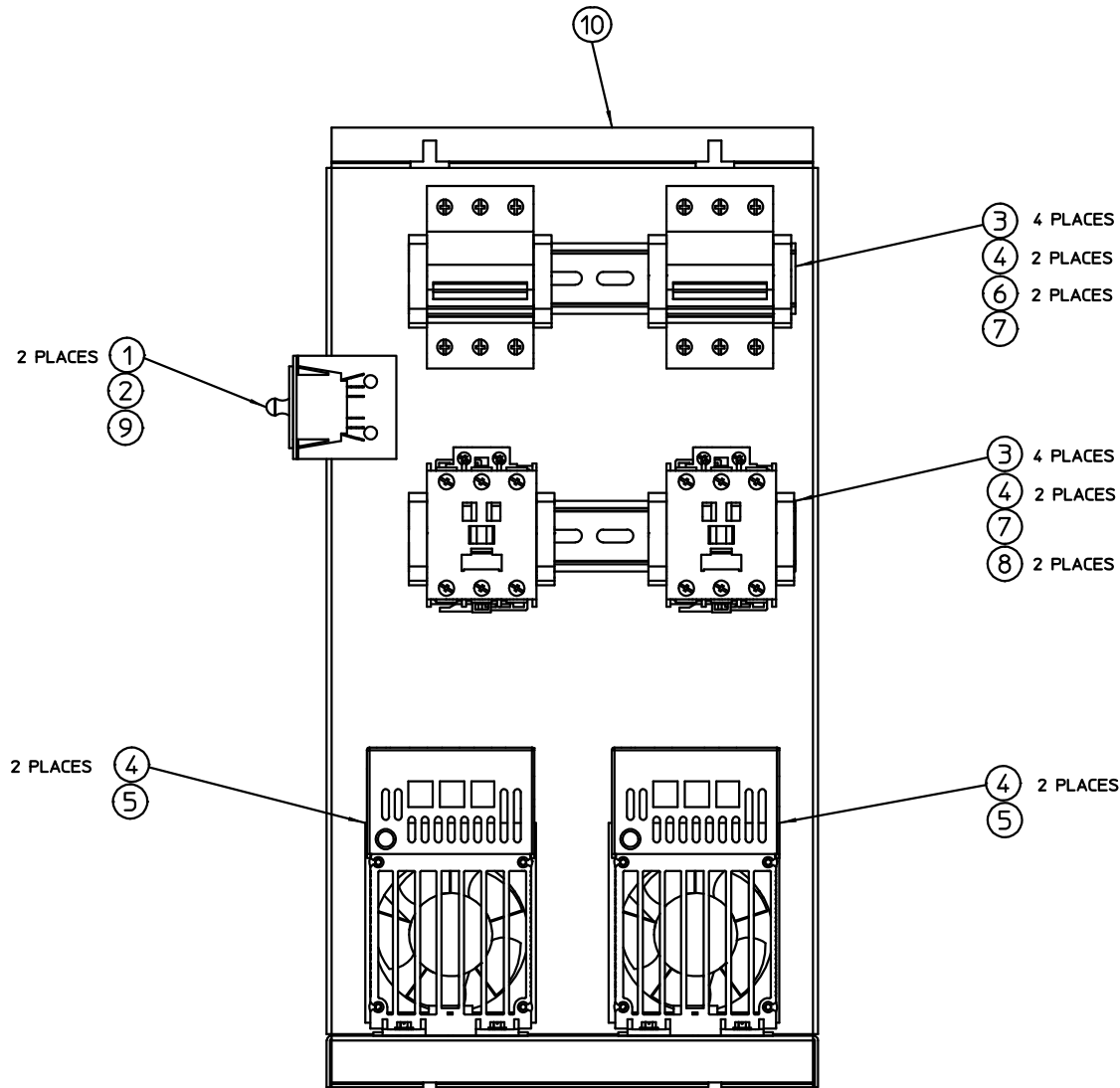
5	1	59920	ASSY,INSHOT HOUSING
4	1	59916	WLDMT,BRNR TUBE (F)
3	1	60965	ASSY,MANF 99,000 BTU/HR (D)
2	1	59461	COVER,INSHOT HOUSING
1	18	44661	SCR,REG HWH 8-32X3/8 NP
ITEM	QTY	PART NO.	DESCRIPTION


MATERIAL	GAUGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH		ANGLES ± 1.0°	
		DEC .X ± .030 .XX ± .015 .XXX ± .005	
DRAWN ET	04/17/2012	CHECKED MSS 05/04/2012	APPROVED MSS 05/04/2012
ASSY, INSHOT MANF			
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING.		PART NO	SHT
		5 9 9 2 1	1 OF 1
			REV F

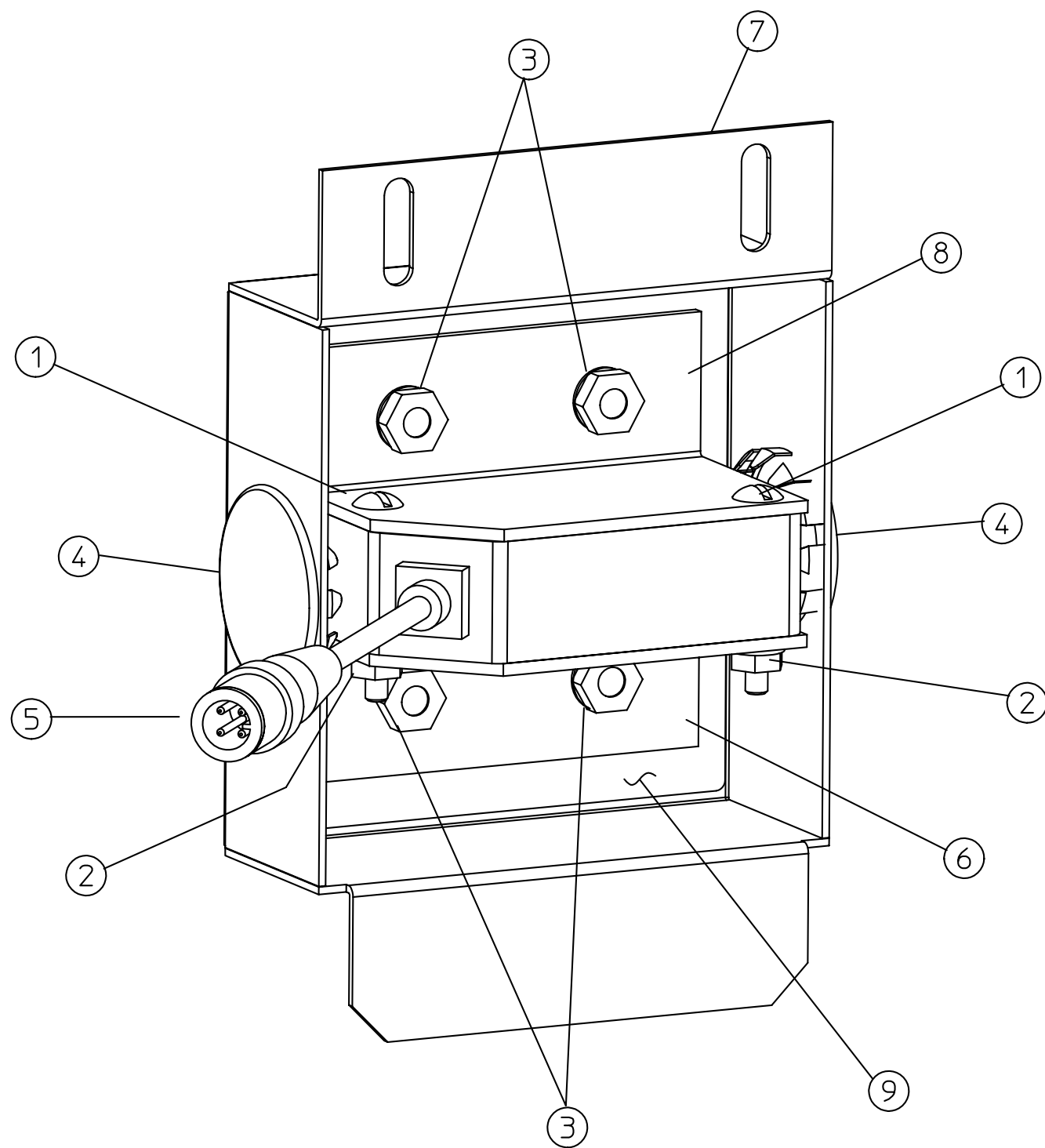


ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	59609	WELDMENT, CONTROL DOOR LH
2	2	44914	CONTROLLER, PS555EL 208-240V
	2	44568	CONTROLLER, 380-480V PS555EL
3	2	60452	CONTACTOR, 24VDC COIL 85 AMP
4	1	63909	SWITCH, INTERLOCK 10A NO 2 POLE
5	2	45019	BREAKER, CIRCUIT 480VAC 63AMP 3 POLE
6	3	27470-0004	GUARD, FAN
7	2	27480-0001	BLOCK, POWER DIST 2 POLES 600V
8	1	60750	ELEMENT, HEATING 208V 27KW (208V & 416V OVENS)
	1	60751	ELEMENT, HEATING 240V 27KW
	1	60752	ELEMENT, HEATING 380V 27KW
	1	60753	ELEMENT, HEATING 480V 27KW
9	1	33812-1	THERMOCOUPLE, TYPE J SHIELDED 6.00 X 120
10	1	59394	WELDMENT, BOX CONTROL LH
11	1	60185	SENSOR, ALLEN-BRADLEY 42BT
12	1	60314	PLASTIC, 3.75 X 3.75 X .063
13	1	32127	LABEL, GROUND SYM EL
14	1	60312	ASSEMBLY, COVER PHOTOEYE/PEM
15	2	58131	FILTER,RFI 50A 400V 3 PH 50/60 HZ (CE ONLY)

PS640E/PS740E/PS840E LEFT HAND CONTROL ASSEMBLY



10	1	60629	ASSY,CTRL REAR COMP/PEM
9	1	60524	BRKT,DOOR SWITCH
8	2	60452	CONTACTOR,24VDC COIL 85A
7	2	45413	RAIL,DIN 7.5 LONG
6	2	45019	BREAKER,CKT 480VAC 63A 3POLE
5	2	44914	CONTROLLER,PS555EL 208-240V
4	8	44661	SCR,REG HWH 8-32X3/8 NP
3	8	33363	END,STOP ENTRELEC
2	1	28021-0047	SWITCH,INTLCK 10A N02P
1	2	21516-0001	RIVET,POP STY1 #43 GR51 SS
ITEM	QTY	PART NO.	DESCRIPTION
MATERIAL		GAUGE:	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF  THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH		TOLERANCE UNLESS SPECIFIED	
		ANGLES ± 1.0°	
		DEC .X ±.030 .XX ±.015 .XXX ±.005	
DRAWN	CHECKED	APPROVED	
FC	01/11/2000 WSS	05/01/2000 WSS	
ASSY, CTRL REAR COMP 208 / 240			
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING		PART NO	SHT
		6 0 6 6 8	1 OF 1
			REV B_

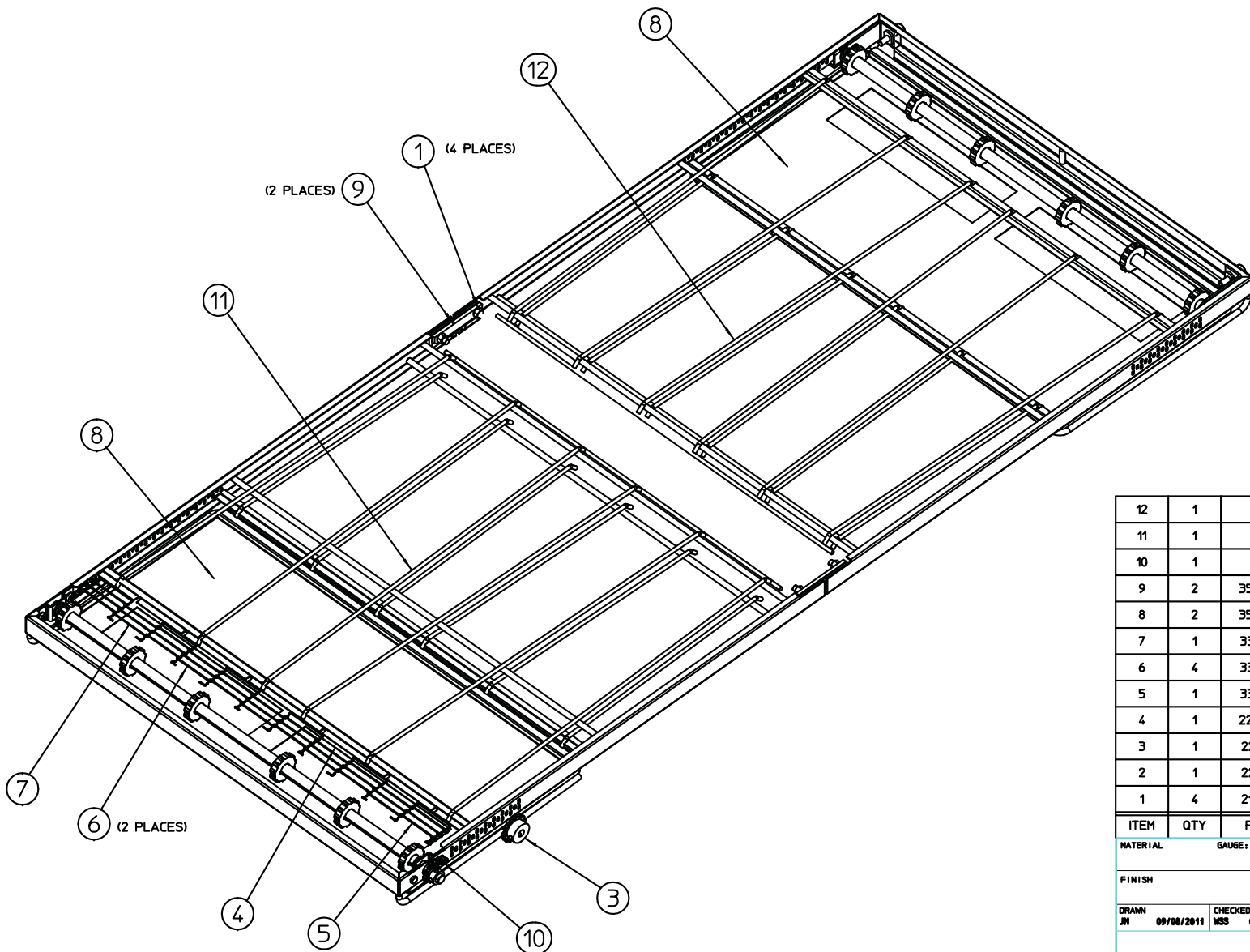


9	1	60314	PLASTIC,3.375X3.375X.063
8	1	61819	ASSY, BRKT SENSOR/PEM, TOP
7	1	60312	ASSY,COVER PHOTOEYE/PEM
6	1	61820	ASSY, BRKT SENSOR/PEM, BTM
5	1	60185	SENSOR,ALLEN-BRADLEY 42BT
4	2	3102533	PLUG,HOLE 1.125 DIA.
3	4	2001371	NUT,KEPS 10-32 ZP
2	2	2001327	NUT,NYLOK 6-32
1	2	1412L8805	SCR,THM 6-32X1-1/4
ITEM	QTY	PART NO.	DESCRIPTION

MATERIAL GAUGE: TOLERANCE UNLESS SPECIFIED
 FINISH DEC .X ±.030 ANGLES ± 1.0°
 .XX ±.015
 .XXX ±.005
 DRAWN JH 11/21/2008 CHECKED WSS 12/05/2008 APPROVED WSS 12/05/2008
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 1400 Toastmaster Drive
 Elgin, Illinois 60120
 847-741-3300

ASSY, PHOTOEYE SENSOR

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING
 PART NO. **60315** SHT 1 OF 1 REV C_



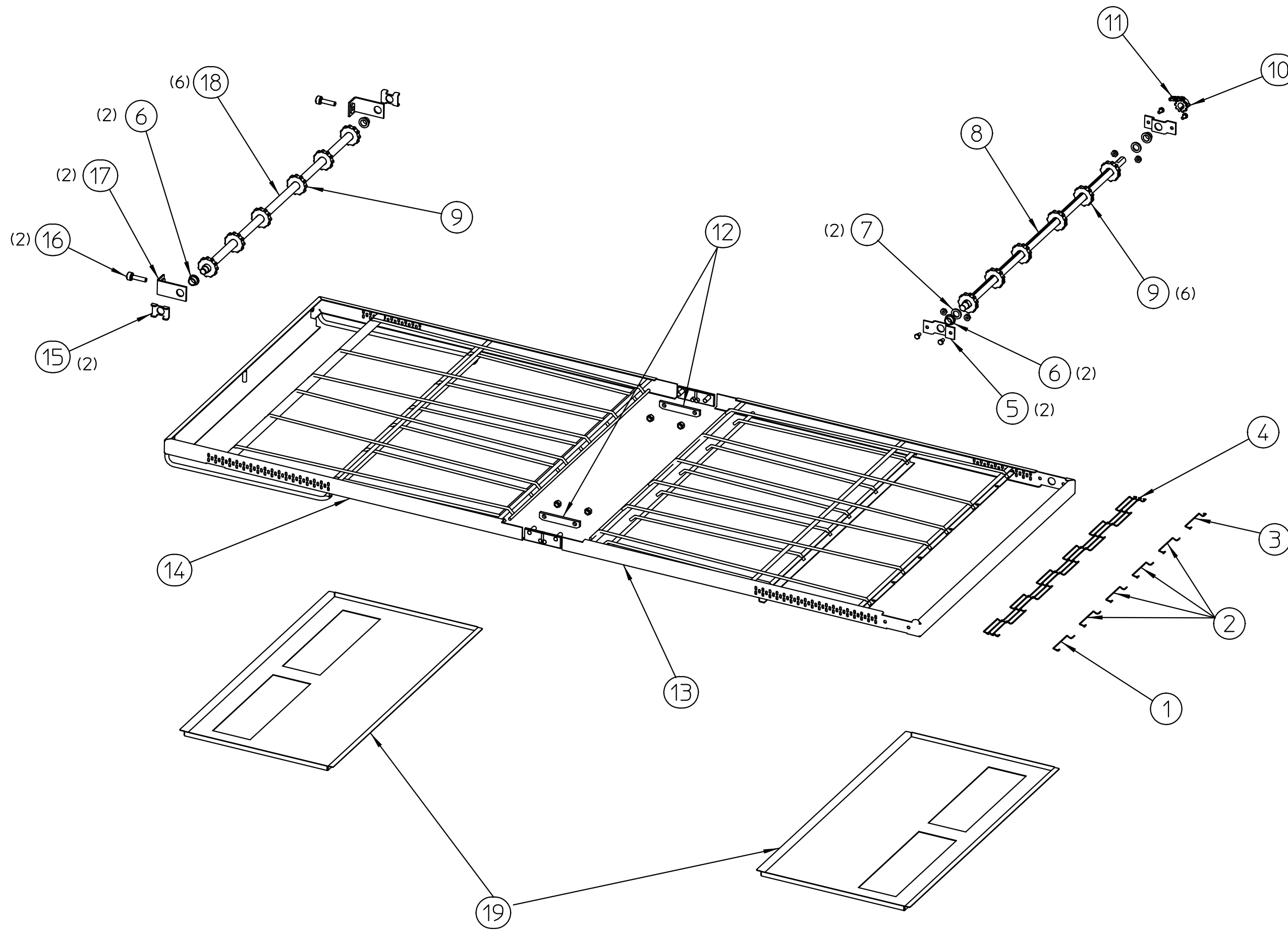
12	1	60182	ASSY,CONVEYOR IDLER SIB
11	1	60178	ASSY,CONVEYOR DRIVE SIB
10	1	60123	ASSY,CHAIN ROLLER 19-5/8
9	2	35900-0398	PLATE,PIVOT CONV FRAME PS200
8	2	35900-0255	PAN,CRUMB W/SLOTS CONVEYOR
7	1	33900-0018	LINK,MASTER RIGHT-1/2P X 32'
6	4	33900-0017	LINK,MASTER MIDDLE-1/2P X 32'
5	1	33900-0016	LINK,MASTER LEFT-1/2P X 32'
4	1	22450-0225	BELT,CONV 1/2P 32X146 2.8/11SP
3	1	22151-0003	SPRKT,#35-15T-1/2"BORE (PS200)
2	1	22151-0002	SPRKT,#35-10T-5/8"BORE (PS200)
1	4	21176-0002	NUT,LOCKHEX 3/8-16 SS

ITEM	QTY	PART NO.	DESCRIPTION
MATERIAL		GAUGE:	TOLERANCE UNLESS SPECIFIED
FINISH			ANGLES ± 1.0°
DRAWN		CHECKED	APPROVED
DATE		DATE	DATE

THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF
THE MIDDLEBY CORPORATION
 1400 Toastmaster Drive
 Elgin, Illinois 60120
 847-741-3300

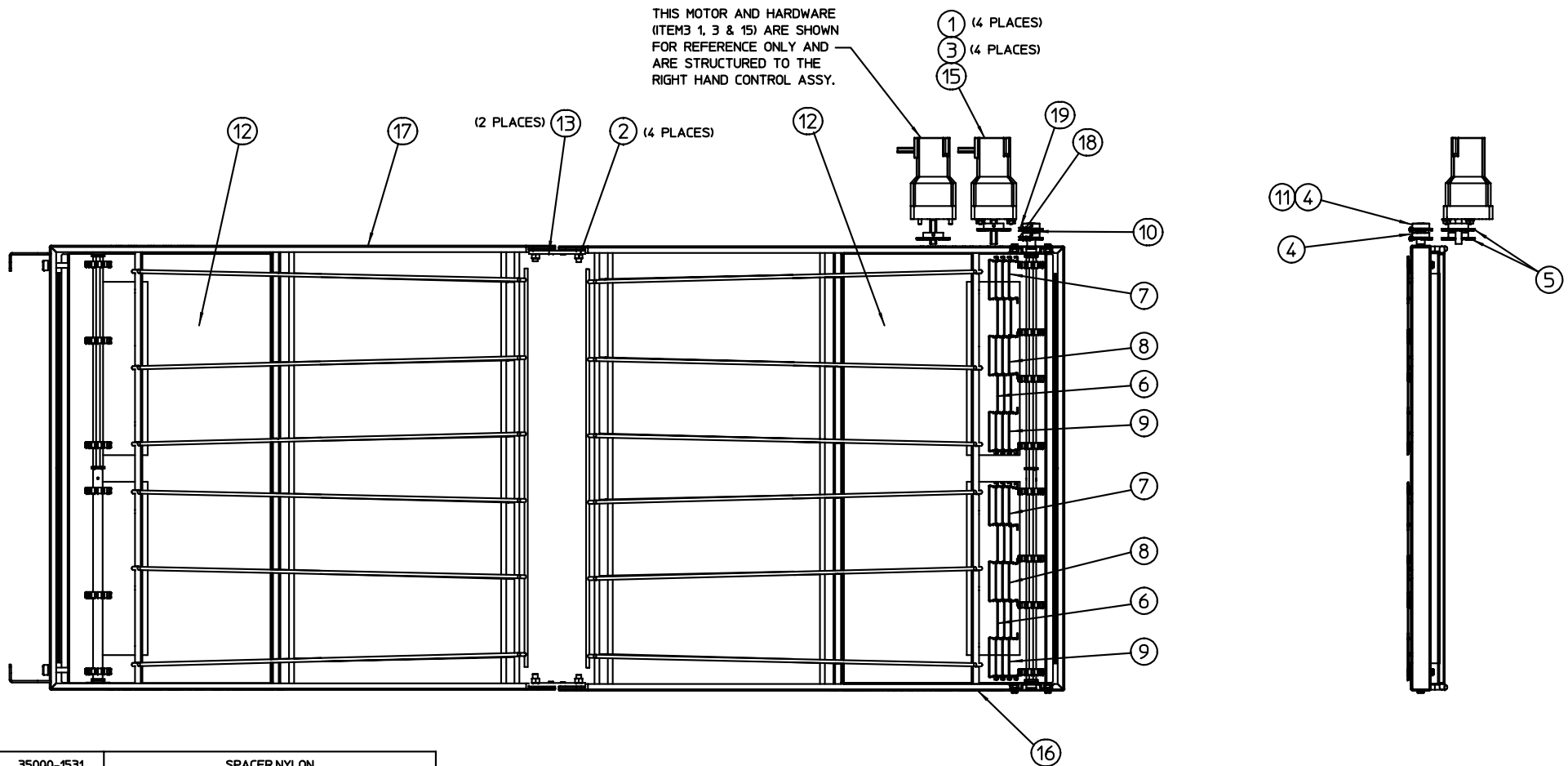
ASSY, CONVEYOR SIB

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING.	PART NO 6 0 0 9 9	SHT 1 OF 1	REV D
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ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	33900-0018	LINK, MASTER LEFT 1/2 X 32"
2	4	33900-0017	LINK, MASTER MIDDLE 1/2 X 32"
3	1	33900-0016	LINK, MASTER RIGHT 1/2 X 32"
4	1	22450-0225	BELT, CONVEYOR 1/2P 32 X 146 2.8/11SP
5	2	49972	BRKT, CONVEYOR SUPPORT PS536
6	4	22034-0003	BUSH, FLANGE 3/4 OD X 5/8 OD N/D
7	2	65173	WASHER, FLT NYLON .631 X 1.00 X .128
8	1	66548	SHAFT, DRIVE CONVEYOR
9	12	22229-0003	SPROCKET, CONV DRIVE 2.0 DIA W/SCREW
10	1	22151-0002	SPROCKET, #35 10 TOOTH 5/8 BORE
11	1	60123	ASSY, ROLLER CHAIN 19-5/8
12	2	35900-0398	PLATE, PIVOT CONNECTOR FRAME
13	1	60176	WELDMENT, CONVEYOR DRIVE
14	1	60590	WELDMENT, CONVEYOR IDLER
15	2	60179	BRACKET, SLIDER CONVEYOR
16	2	35000-1008	SCREW, ADJUSTER CONVEYOR IDLER
17	2	37000-0413	WELDMENT, IDLER
18	1	35000-1011	SHAFT, IDLER CONVEYOR
19	2	35900-0225	CRUMB PAN WITH SLOTS CONVEYOR

FULL CONVEYOR ASSEMBLY P/N 60099
 PS640/PS740/PS840 SINGLE BELT CONVEYOR
 AND
 PS640VE2/PS740VE2/840VE2 SINGLE BELT CONVEYOR



THIS MOTOR AND HARDWARE (ITEMS 1, 3 & 15) ARE SHOWN FOR REFERENCE ONLY AND ARE STRUCTURED TO THE RIGHT HAND CONTROL ASSY.

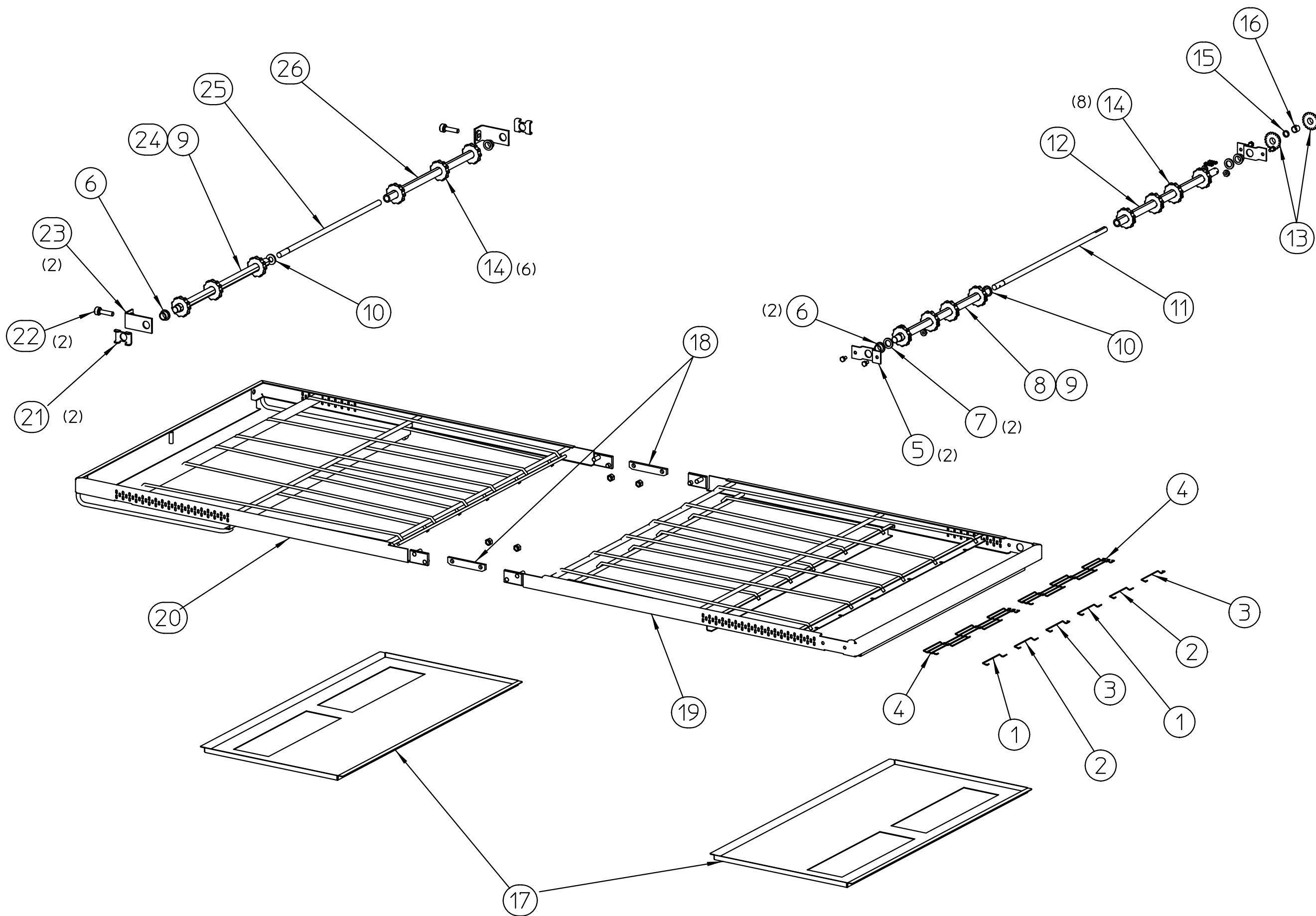
10	1	35000-1531	SPACER,NYLON				
9	2	33900-0018	LINK,MASTER RIGHT-1/2P X 32"	19	1	60998	ASSY,CHAIN ROLLER #25 X 14
8	2	33900-0017	LINK,MASTER MIDDLE-1/2P X 32"	18	1	60996	ASSY,CHAIN ROLLER #25 X 21
7	2	33900-0016	LINK,MASTER LEFT-1/2P X 32"	17	1	60993	ASSY,CONVEYOR IDLER SPB
6	2	22450-0226	BELT,CONV 1/2P 15X146 2.86/5SP	16	1	60992	ASSY,CONVEYOR DRIVE SPB
5	2	22159-0004	SPRKT,25 CHAIN 30T 1/2B	15	1	62342	MTR,GEAR 600:1 130VDC PRLEL
4	2	22159-0003	SPRKT,25 CHAIN 20T 5/8B	14	1	58679	CONTROLLER,TYPE DBL-2302 DC (NOT SHOWN)
3	4	21416-0005	WASHER,FLAT 1/4 SS	13	2	35900-0398	PLATE,PIVOT CONV FRAME PS200
2	4	21176-0002	NUT,LOCKHEX 3/8-16 SS	12	2	35900-0255	PAN,CRUMB W/SLOTS CONVEYOR
1	4	2001414	NUT,KEPS 1/4-20 ZP	11	1	35900-0023	BUSH,SPROCKET-FRONT DRIVE
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION

MATERIAL	GAUGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toadmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH		ANGLES ± 1.0°	
		DEC .X ± .030 .XX ± .015 .XXX ± .005	
DRAWN RB	CHECKED MSS 03/05/2010	APPROVED MSS 03/23/2010	

ASSY, CONVEYOR SPB

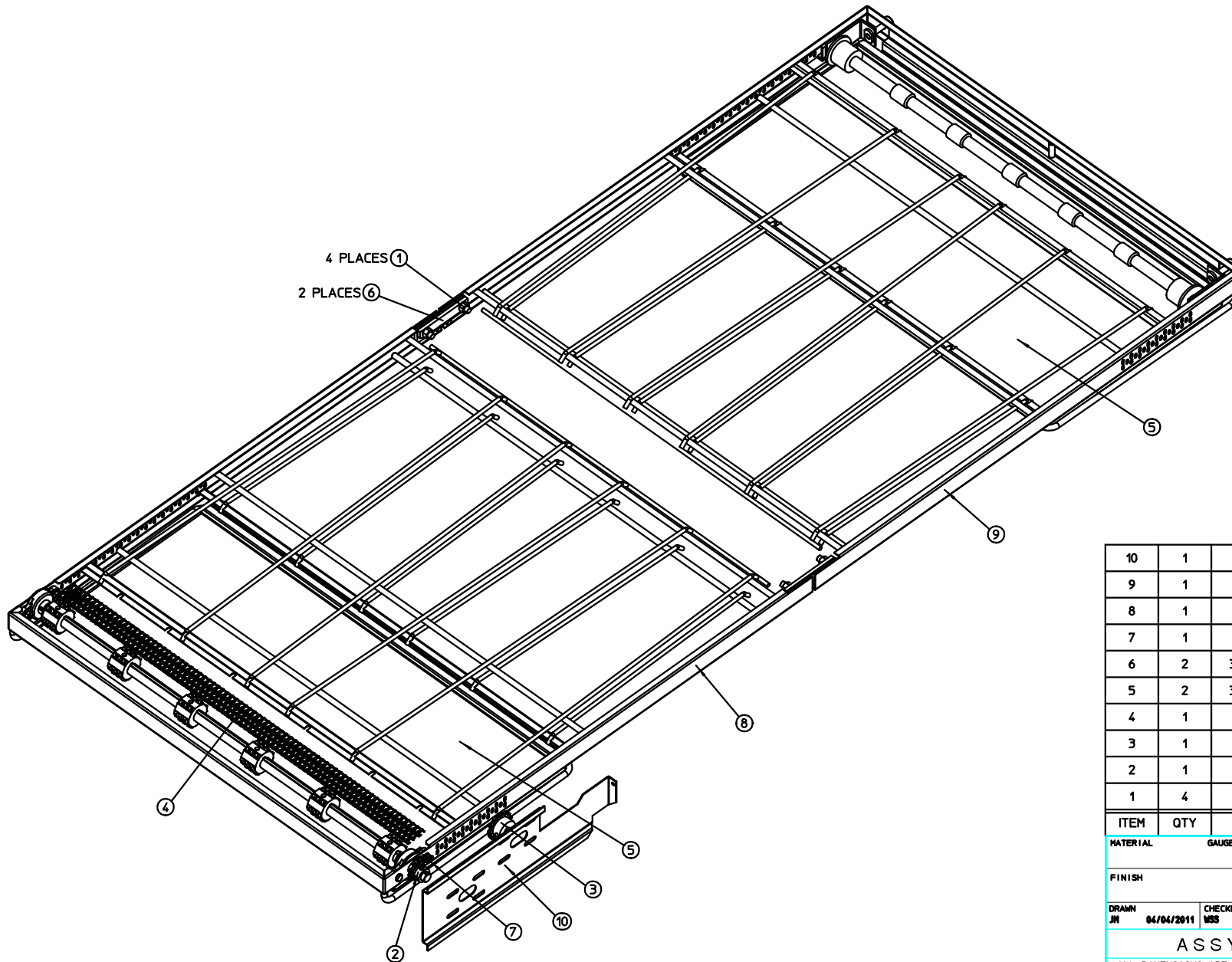
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING

PART NO 60180 SHT 1 OF 1 REV D



ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	33900-0018	LINK, MASTER LEFT 1/2 X 32"
2	2	33900-0017	LINK, MASTER MIDDLE 1/2 X 32"
3	2	33900-0016	LINK, MASTER RIGHT 1/2 X 32"
4	2	22450-0226	BELT, CONV 1/2P 15 X 146 2.86/5 SP
5	2	49972	BRKT, CONVEYOR SUPPORT PS536
6	4	22034-0003	BUSH, FLANGE 3/4 OD X 5/8 OD N/D
7	2	65173	WASHER, FLT NYLON .631 X 1.00 X .128
8	1	66551	SHAFT, DRIVE FRONT SPB
9	2	21646-0004	PIN, ROLL SS H-DUTY 1/8" X 3/4"
10	2	21415-0001	WASHER, FLAT 1" X 1/2" X 1/8" THK BRZ
11	1	35621	SHAFT, DRIVE CONVEYOR SB-68" 200RL
12	1	66552	SHAFT, DRIVE REAR SPB
13	2	22159-0003	SPROCKET, #25 20 TOOTH 5/8 BORE
14	14	22229-0003	SPROCKET, CONV DRIVE 2.0 DIA W/SCREW
15	1	35000-1531	SPACER, NYLON
16	1	35900-0023	BUSH, SPROCKET FRONT DRIVE
17	2	35900-0225	CRUMB PAN WITH SLOTS CONVEYOR
18	2	35900-0398	PLATE, PIVOT CONNECTOR FRAME
19	1	60176	WELDMENT, CONVEYOR DRIVE
20	1	60590	WELDMENT, CONVEYOR IDLER
21	2	60179	BRACKET, SLIDER CONVEYOR
22	2	35000-1008	SCREW, ADJUSTER CONVEYOR IDLER
23	2	37000-0413	WELDMENT, IDLER
24	1	35000-1534	SHAFT, FRONT CONVEYOR
25	1	35000-1532	SHAFT, CONN FRONT CONV IDLER 360SB
26	1	35000-1535	SHAFT, REAR CONVEYOR IDLER

FULL CONVEYOR ASSEMBLY P/N 60180
 PS640/PS740/PS840 SPLIT BELT CONVEYOR
 AND
 PS640VE2/PS740VE2/PS840VE2 SPLIT BELT CONVEYOR



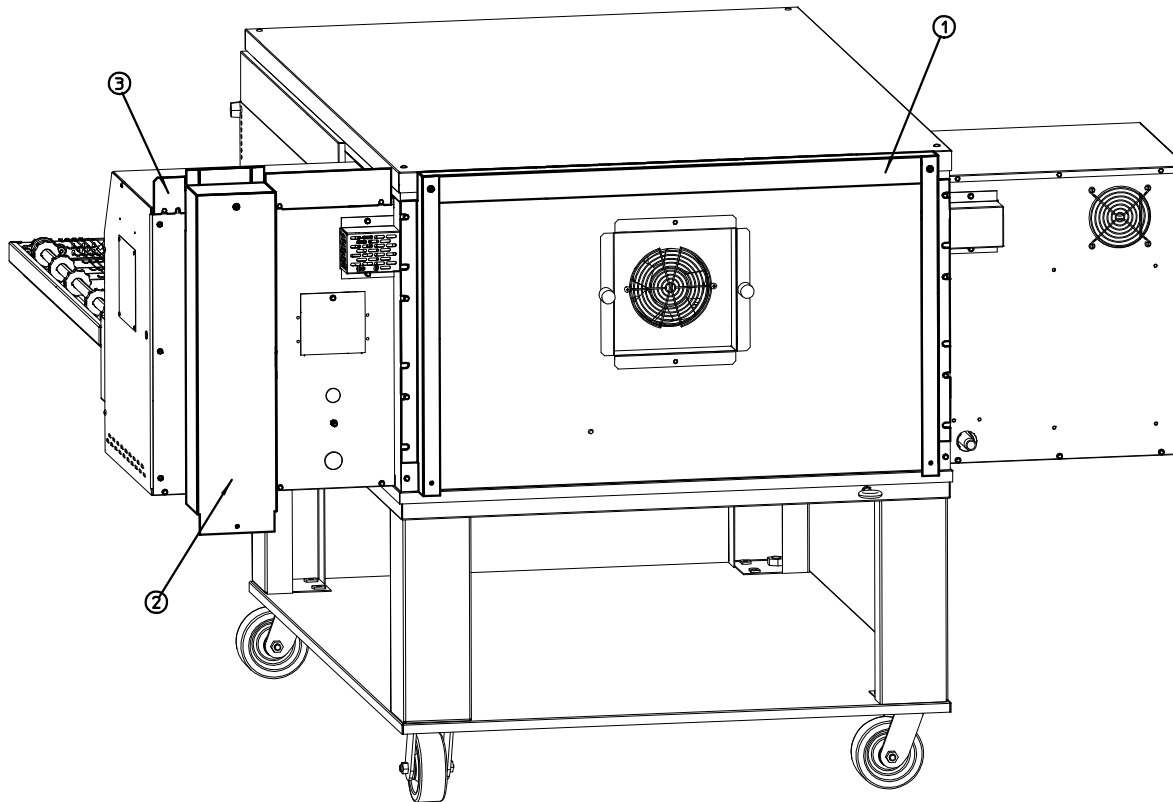
10	1	65151	BRKT,MTR FRNT WALL SUPPORT
9	1	66534	ASSY,CONVEYOR IDLER SIB MHB
8	1	66533	ASSY,CONVEYOR DRIVE SIB MHB
7	1	60123	ASSY,CHAIN ROLLER 19-5/8
6	2	35900-0398	PLATE,PIVOT CONV FRAME PS200
5	2	35900-0038	PAN,CRUMB CONV FRAME (PS200)
4	1	65359	BELT,MHB 31.1' X 13'
3	1	22151-0003	SPRKT,#35-15T-1/2"BORE (PS200)
2	1	22151-0002	SPRKT,#35-10T-5/8"BORE (PS200)
1	4	21176-0002	NUT,LOCKHEX 3/8-16 SS

ITEM	QTY	PART NO.	DESCRIPTION
MATERIAL		GAUGE:	TOLERANCE UNLESS SPECIFIED
FINISH			ANGLES ± 1.0°
DRAWN		CHECKED	APPROVED
JM 04/04/2011		MSS 04/26/2011	MSS 04/26/2011

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 1400 Toastmaster Drive
 Elgin, Illinois 60120
 847-741-3300

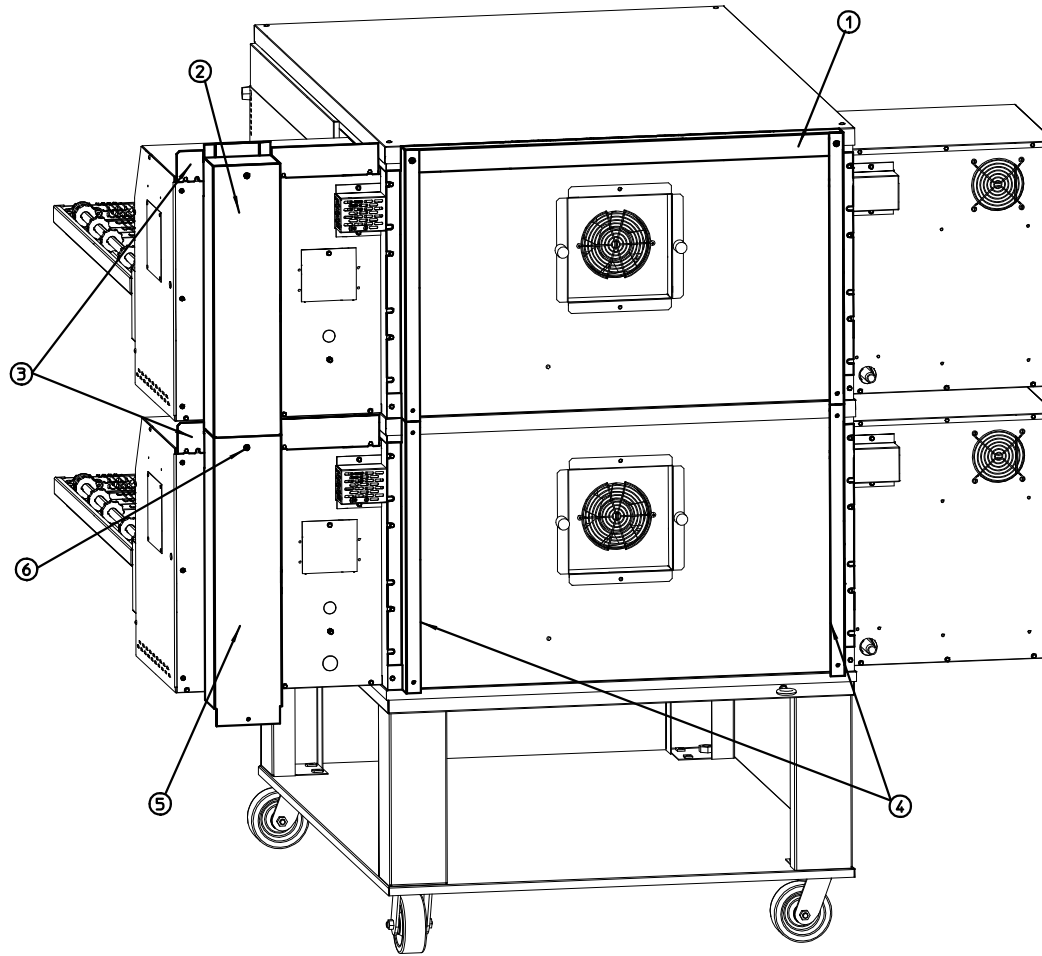
ASSY, CONVEYOR MHB SIB 640

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING	PART NO 66532	SHT 1 OF 1	REV B
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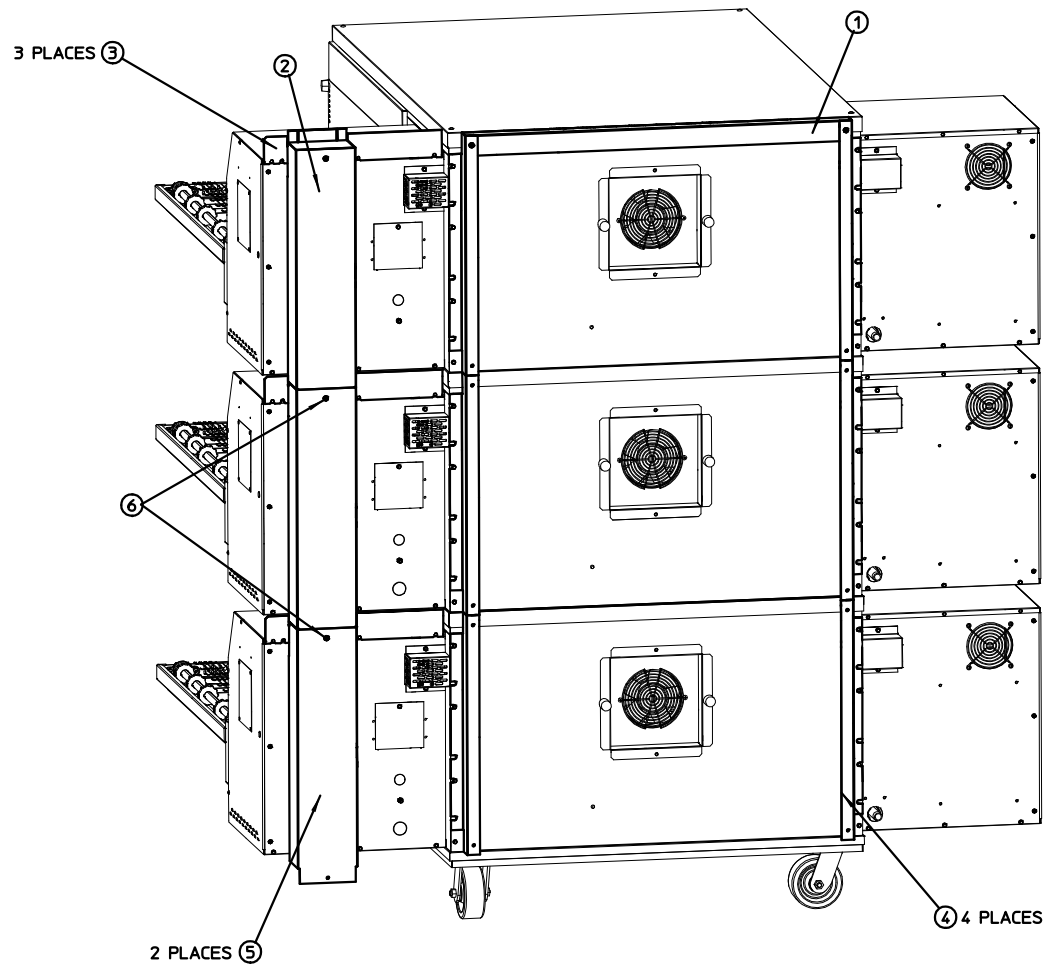
ITEM	QTY	PART NO.	DESCRIPTION
3	1	60832	PLATE,AIRBLOCK 640/740/840/542
2	1	65133	ASSY,SNORKEL/TOP
1	1	65134	ASSY,CENTER SNORKEL/TOP

MATERIAL		GAUGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH			ANGLES ± 1.0° DEC .X ± .030 .XX ± .015 .XXX ± .005	
DRAWN	CHECKED	APPROVED		
JM 07/21/2011	AJ 08/03/2011	AJ 08/03/2011		
KIT, SNORKEL / AIRBLCK SINGLE				
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING			PART NO	SHT
			6 6 9 8 2	1 OF 1
				REV
				B_



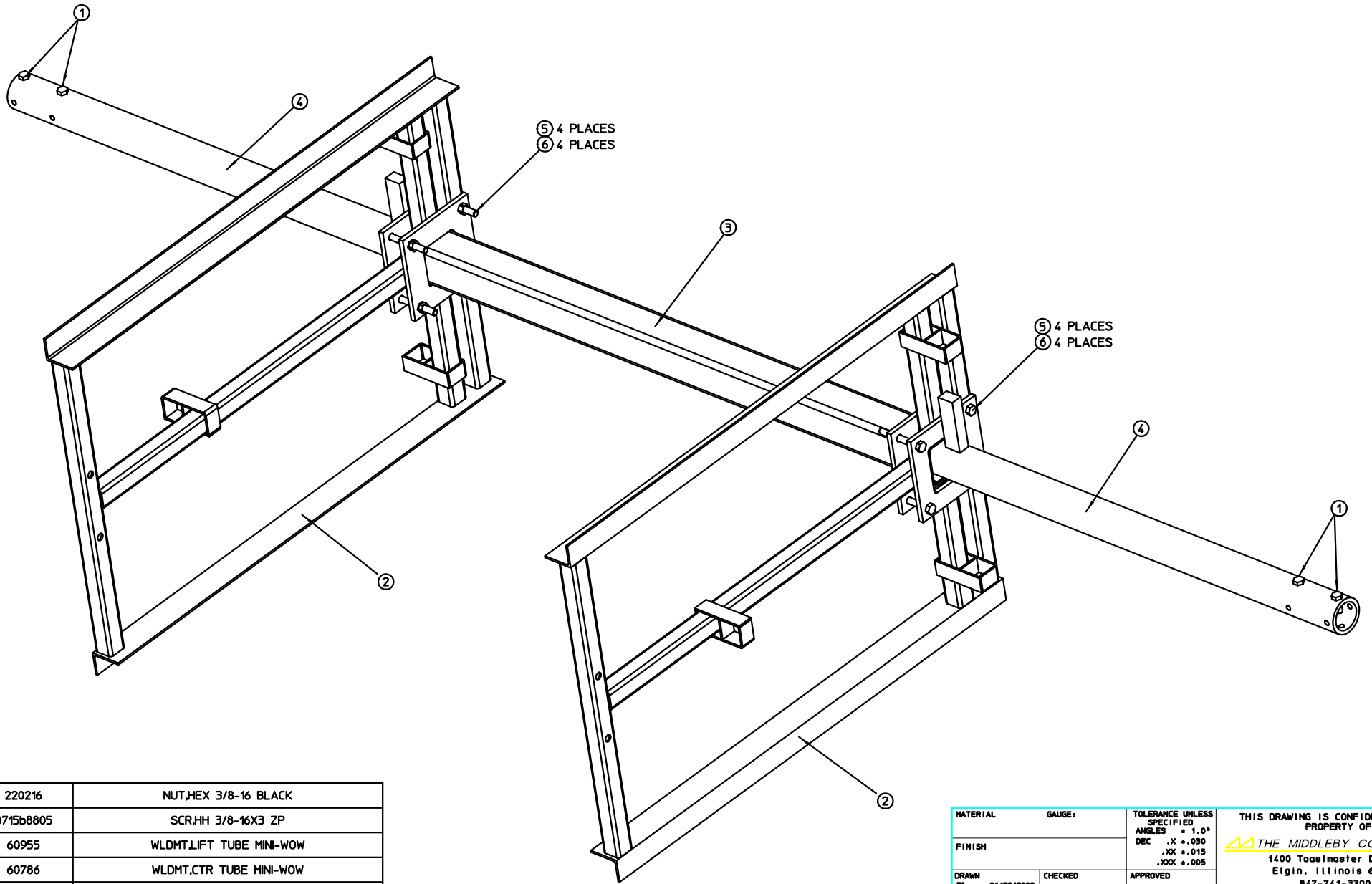
MATERIAL		GAUGE:		TOLERANCE UNLESS SPECIFIED		THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300	
FINISH				ANGLES $\pm 1.0^\circ$ DEC .X $\pm .030$.XX $\pm .015$.XXX $\pm .005$			
DRAWN	CHECKED	APPROVED					
JH	07/21/2011	AJ	08/03/2011	AJ	08/03/2011		
KIT, SNORKEL / AIRBLCK DOUBLE							
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING				PART NO		SHT	
				6 6 9 8 3		1 OF 1	
						REV B_	

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
3	2	60832	PLATE,AIRBLOCK 640/740/840/542	6	1	2000852	SCR,TEKS HWH 10-16X1/2 ZP
2	1	65133	ASSY,SNORKEL/TOP	5	1	65135	GUARD,SNORKEL FAN
1	1	65134	ASSY,CENTER SNORKEL/TOP	4	2	65137	GUARD,SNORKEL CENTER



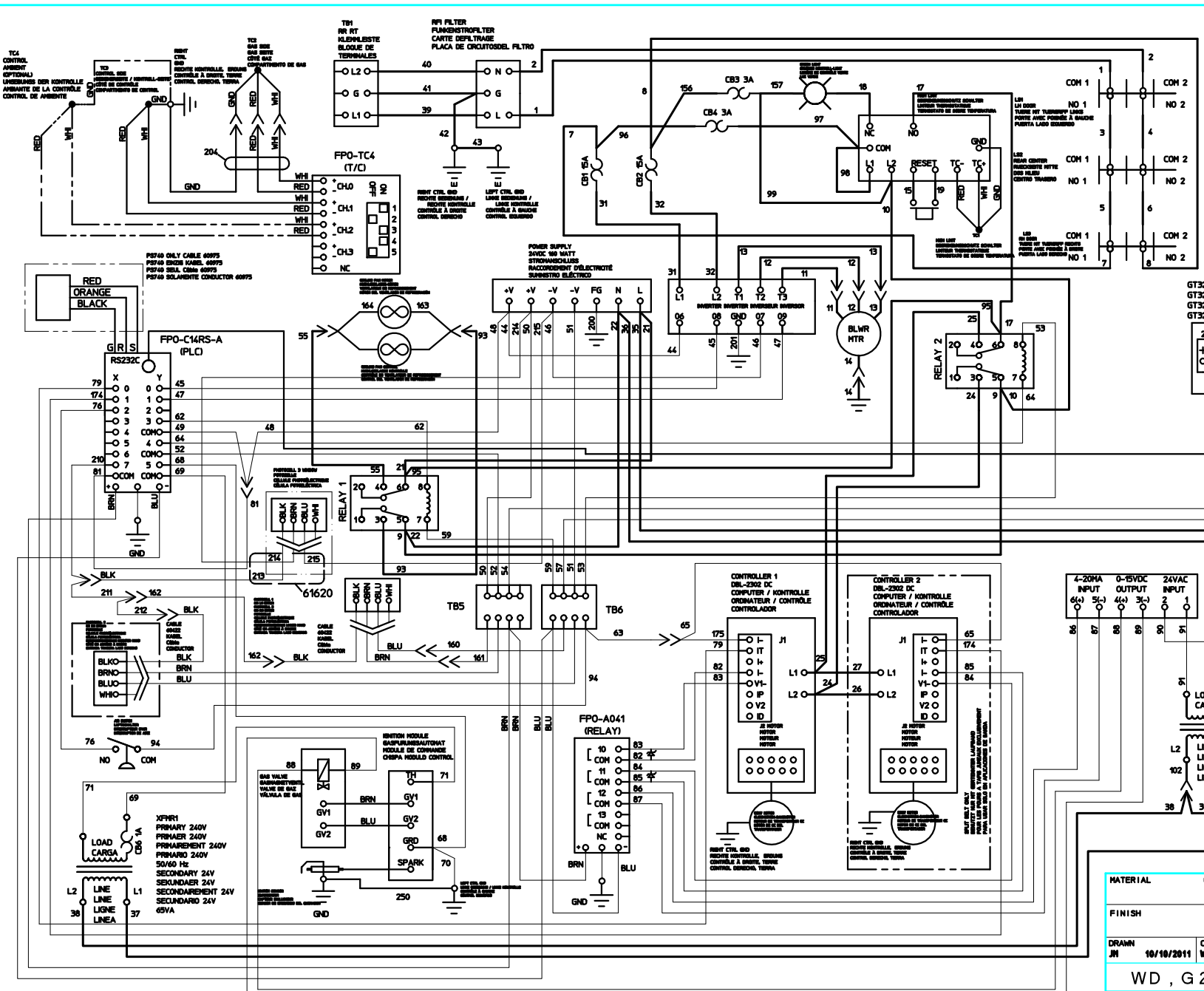
MATERIAL		GAUGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300	
FINISH			ANGLES ± 1.0° DEC .X ± .030 .XX ± .015 .XXX ± .005		
DRAWN JM	07/21/2011	CHECKED AJ	08/03/2011	APPROVED AJ	08/03/2011
KIT, SNORKEL / AIRBLCK TRIPLE					
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING			PART NO 6 6 9 8 4	SHT 1 OF 1	REV B_

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
3	3	60832	PLATE,AIRBLOCK 640/740/840/542	6	2	2000852	SCR,TEKS HWH 10-16X1/2 ZP
2	1	65133	ASSY,SNORKEL/TOP	5	2	65135	GUARD,SNORKEL FAN
1	1	65134	ASSY,CENTER SNORKEL/TOP	4	4	65137	GUARD,SNORKEL CENTER



ITEM	QTY	PART NO.	DESCRIPTION
6	8	220216	NUT,HEX 3/8-16 BLACK
5	8	D715b8805	SCR,HH 3/8-16X3 ZP
4	2	60955	WLDMT,LIFT TUBE MINI-WOW
3	1	60786	WLDMT,CTR TUBE MINI-WOW
2	2	60784	WLDMT,OVEN LIFT BRKT MINI-WOW
1	4	2000531	SCR,CAP HX HD 3/8-16X1 NP

MATERIAL		GUAGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toastmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH			ANGLES $\pm 1.0^\circ$ DEC $.X \pm .030$ $.XX \pm .015$ $.XXX \pm .005$	
DRAWN JM	06/29/2009	CHECKED	APPROVED	
TOOL , COMPL LIFT ASSY MINI-WOW				
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING		PART NO	60956	SHT 1 OF 1
				REV B_



REV	DATE	ECN	REVISION DESCRIPTION	BY	CHK	DATE	
L	09/25/2009	009204	DISPLAY WAS 'GT30', JOINED WIRE 65 TO 175, JOINED BRN WIRES AT T85. ADD NOMENCLATURE	RB	WSS	10/08/2009	
M	04/21/2010	010079	TC4 MADE OPTIONAL	RB	WSS	04/22/2010	
N	10/10/2011	011293	INVERTER UPDATE. REMOVED 252 WIRE AND INVERTER JUMPER	JH	WSS	10/11/2011	
			VOLTAGE	TOTAL KILOWATTS	PHASE	L1	L2
			208	2.3	1	11	11
			240	2.3	1	9.6	9.6

- BLACK
- SCHWARTZ
- NOIR
- NEGRO

- BLUE
- BLAU
- BLEU
- AZUL

- BROWN
- BRAUN
- BRUN
- MARRON

- GND
- GRUN
- TERRE
- VERDE

- ORANGE
- ORANGE
- ORANGE
- NARANJA

- RED
- ROT
- ROUGE
- ROJO

- WHITE
- WEISS
- BLANC
- BLANCO

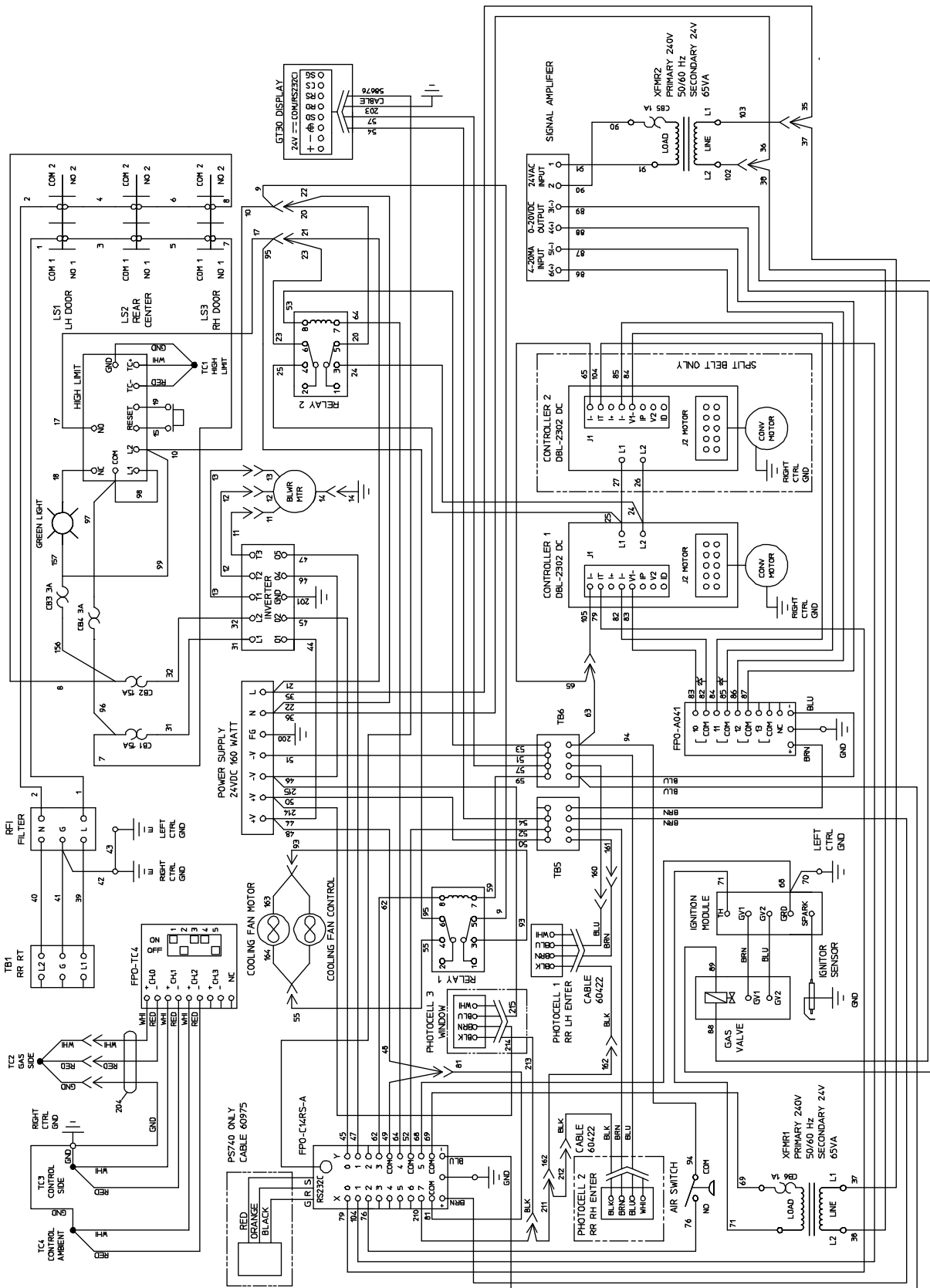
ENG/GM/FR/SP
WD LABEL P/N 60233

MATERIAL	GAUGE:	TOLERANCE UNLESS SPECIFIED	THIS DRAWING IS CONFIDENTIAL AND PROPERTY OF THE MIDDLEBY CORPORATION 1400 Toogmaster Drive Elgin, Illinois 60120 847-741-3300
FINISH		ANGLES ± 1.0° DEC .X ± .030 .XX ± .015 .XXX ± .005	
DRAWN	CHECKED	APPROVED	
10/10/2011	MSS	10/11/2011	MSS

WD, G208-240 AC 1PH 640/740/840

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING	PART NO 59324	SHT 1 OF 1	REV N
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SECTION 5 - WIRING DIAGRAM



Middleby-Marshall Model Number G208-240 Volt 50/60 Hz, 1 Phase

NOTES

NOTES

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

During the warranty period, ALL parts replacement and servicing should be performed by your Middleby Marshall Authorized Service Agent. Service that is performed by parties other than your Middleby Marshall Authorized Service Agent may void your warranty.

NOTICE

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

NOTICE

Middleby Marshall reserves the right to change specifications at any time.

CFESA

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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