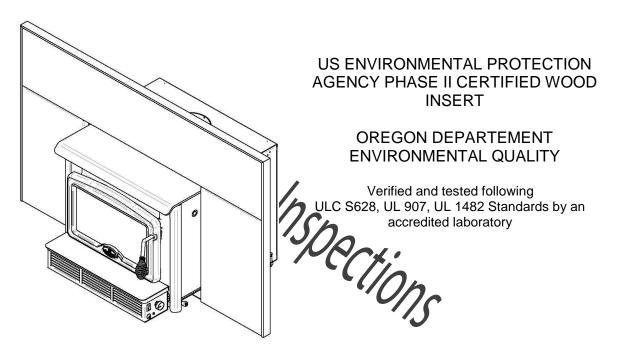


OWNER'S MANUAL

1600 INSERT (OB01601 model)



Manufactured by: **STOVE BUILDER INTERNATIONAL INC**. 250, de Copenhague, Saint-Augustin-de-Desmaures (Quebec) G3A 2H3 After-sale service: 418-908-8002 E-mail: tech@sbi-international.com **www.osburn-mfg.com**



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READ AND KEEP THIS MANUAL FOR REFERENCE

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REGISTER YOU WARRANTY ONLINE

To receive full warranty coverage, you will need to show evidence of the date you purchased your insert. Keep your sales invoice. We also recommend that you register your warranty online at

http://www.osburn-mfg.com/en/service-support/warranty-

registration

Registering your warranty online will help us track rapidly the information we need on your insert.

INTRODUCTION

SBI INC., one of the most important wood stove and fireplace manufacturers in Canada, congratulates you on your purchase and wishes to help you get maximum satisfaction from your wood insert. In the pages that follow, we will give you advice on wood heating and controlled combustion as well as technical specifications regarding installation, operation and maintenance of the model you have chosen.

The instructions pertaining to the installation of your wood insert comply with ULC-S628 and UL-1482 standards.

Read this entire manual before you install and use your new insert. If this insert is not properly installed, a house fire may result. To reduce the risk of fire, follow the installation instructions. Failure to follow instructions may result in property damage bodily injury, or even death.

Consult your municipal building department or fire officials about restrictions and installations requirements in your area and the need to obtain a permit.

Keep this instructions manual for future references.

CAUTIONS:

- HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.
- DO NOT USE CHEMICALS OR FLUIDS TO IGNITE THEFT
- DO NOT LEAVE THE INSERT UNATTENDED WHEN THE DOOR IS SLIGHTLY OPENED.
- DO NOT BURN WASTES, FLAMMABLE FLUID SUCH AS GASOLINE, DAPHTHA OR MOTOR OIL.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM,
- ALWAYS CLOSE THE DOOR AFTER THE IGNITION.

GENERAL INFORMATION ON 1600 INSERT (OB01601)

APPLIANCE PERFORMANCE⁽¹⁾

Fuel type	Dry cordwood	
Recommended heating area ^[*]	500 to 1,800 ft ² (46 to 167 m ²	2)
Firebox volume	2.0 ft ³ (0.057 m ³)	
Maximum burn time ^[*]	6 h	
Maximum heat output ⁽²⁾ (dry cordwood)	65,000 BTU/h (19.0 kW)	
Overall heat output rate (min. to max.) ⁽²⁾⁽³⁾	11,800 BTU/h to 42,400 BTU	/h (3.5 kW to 12.4 kW)
Average overall efficiency ⁽³⁾ - EPA Cribs / Douglas Fir	68.0% (HHV ⁽⁴⁾)	73.0% (LHV ⁽⁵⁾)
Average overall efficiency ⁽³⁾ - Dry cordwood	To come (HHV ⁽⁴⁾)	To come (LHV ⁽⁵⁾)
Optimum efficiency Y ⁶	80.0%	
Average particulate emissions rate ⁽⁷⁾	4.4 g/h (EPA / CSA B415.1-1	0)
Average CO ⁽⁸⁾	To come	

- ^[7] Recommended heating area and maximum burn time may vary subject to location in home, chimney draft, heat loss factors, climate, fuel type and other variables the recommended heated area for a given appliance is defined by the manufacturer as its capacity to maintain a printmy acceptable temperature in the designated area in case of a power failure.
- ⁽¹⁾ Values are as measured per test method, except for t time and maximum heat output. recommended heating area, firebox volume, maximum burn
- ⁽²⁾ The maximum heat output (dry cordwood) is based on a loaving posity varying between 15 lb/ft³ and 20 lb/ft³. Other performances are based on a fuel load prescribed by the standard. The specified loading density varies between 7 lb/ft³ and 12 lb/ft³. The moisture content is between 19% and 25%. Ons

⁽³⁾ As measured per CSA B415.1-10 stack loss method.

⁽⁴⁾ Higher Heating Value of the fuel.

⁽⁵⁾ Lower Heating Value of the fuel.

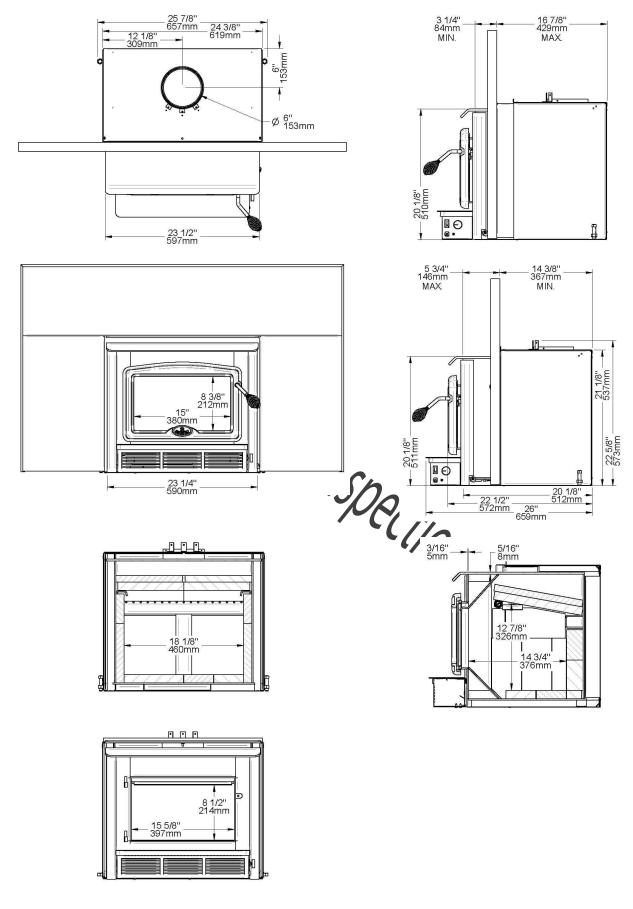
- ⁽⁶⁾ Optimum overall efficiency at a specific burn rate (LHV).
- ⁽⁷⁾ This appliance is officially tested and certified by an independent agency.
- ⁽⁸⁾ Carbon monoxide.

GENERAL FEATURES

Maximum log length	17 in (432 mm) east-west*
Flue outlet diameter	6 in (152 mm)
Recommended connector pipe diameter	6 in (152 mm)
Type of chimney	ULC-S635, CAN/ULC-S640, UL1777
Baffle material	C-Cast
Approved for alcove installation	Not approved
Approved for mobile home installation [‡]	Not approved
Shipping weight (without option)	378 lb (172 kg)
Appliance decight (without option)	325 lb (147 kg)
Type of door	Single, glass with cast iron frame
Type of glass	Ceramic glass
Blower	Included (up to 130 CFM)
Particulate emission standard	EPA / CSA B415.1-10
USA standard (safety)	UL 1482, UL 907
Canadian standard (safety)	ULC S628

* East-west: through the door you see the longitudinal sides of the logs; north-south: through the door you see the tips of the logs.

[‡] Mobile home (Canada) or manufactured home (USA): The US separate of Housing and Urban Development describes "manufactured homes" better known as "mobile homes" as followed; buildings built on fixed wheels and those transported on temporary wheels/axles and set on a permanent foundation. In Canada, a mobile home is a dwelling for which the manufacture and assembly of each component is completed or substantially completed prior to being moved to a site for installation on a foundation and connection to service facilities and which conforms to the CAN/CSA-Z240 MH standard.



INSTALLATION

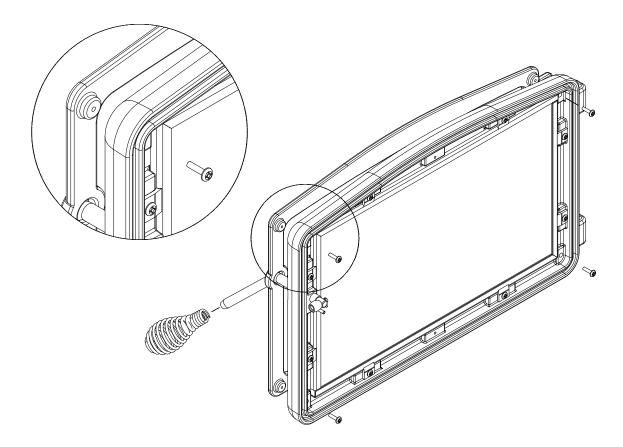
SAFETY NOTICE

- IF THIS INSERT IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTALLATION INSTRUCTIONS. FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH.
- CONSULT YOUR MUNICIPAL BUILDING DEPARTMENT OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATIONS REQUIREMENTS IN YOUR AREA.
- Use smoke detectors in the room where your insert is installed.
- KEEP FURNITURE AND DRAPES WELL AWAY FROM THE INSERT.
- NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE INSERT.
- IN THE EVENT OF A CHIMNEY FIRE, PUSH THE AIR CONTROL FULL CLOSED TO DEPRIVE THE FIRE OF OXYGEN. CALL THE FIRE DEPARTMENT.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.
- A SOURC SESH AIR INTO THE ROOM OR SPACE HEATED SHALL BE PROVIDED WHEN
- NEVER BE INSTALLED IN A HALLWAY OR NEAR A STAIRCASE, SINCE IT MAY A WOOD INSERT MUST BLOCK THE WAY IN CASE OF FIRE OR FALL TO RESPECT REQUIRED CLEARANCES.

A SOURCE REQUIRED. A WOOD INSERT MUST NEW BLOCK THE WAY IN CASE OF PREC. DO NOT INSTALL IN A SLEEPING POOM

DOOR OVERLAY INSTALLATION

In order to complete the assembly of your Osburn 1600 wood insert, you need to install the door overlay. See figure 1 below for installation instructions:



Position the overlay on the door frame and fix it in place from behind using the 4 screws.

Note: It is not necessary to remove the glass or any other component to install the overlay.

Figure 1 : Door overlay installation

DOOR ADJUSTMENT

In order for your insert to operate properly, the door should be adjusted periodically to provide an air tight fit. To adjust:

- Remove the lock pin (spring pin) by pulling and turning it using pliers ("wise grip")
- Turn the handle counter clock wise one turn to increase pressure
- Re-install the lock pin (spring pin) with a small hammer

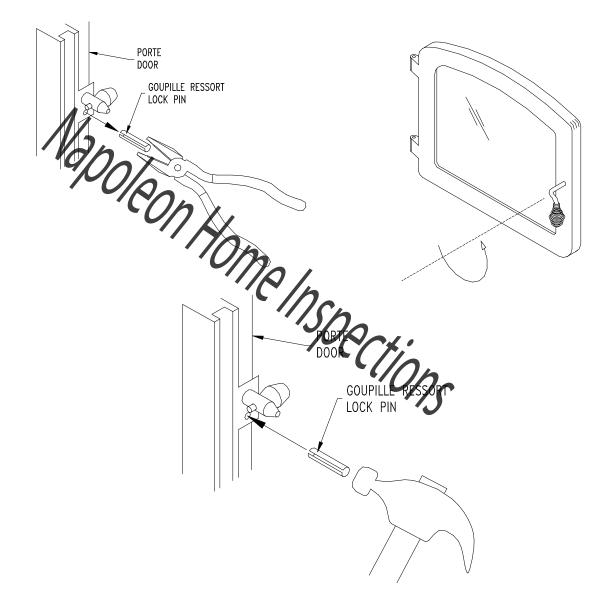


Figure 2: Door Adjustment

PRE-INSTALLATION REQUIREMENTS

MASONRY & ZERO CLEARANCE REQUIREMENTS

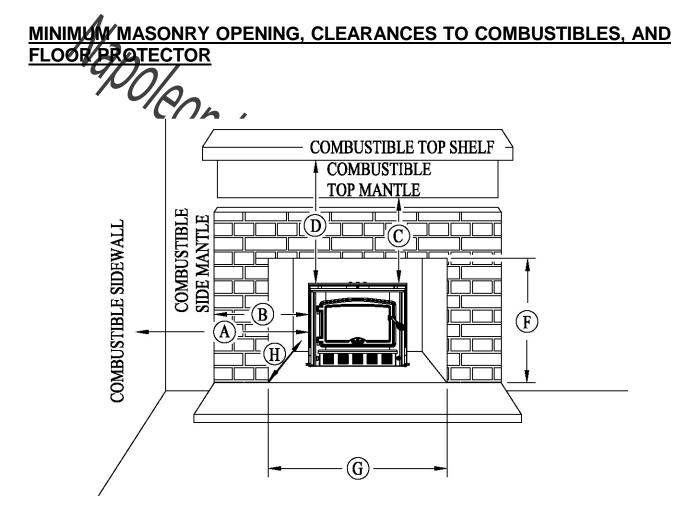
The masonry fireplace must meet the minimum code requirements, or NFPA 21.1 or the equivalent for a safe installation. Contact your local Building Inspector for requirements in your area. An inspection of the fireplace should include the following:

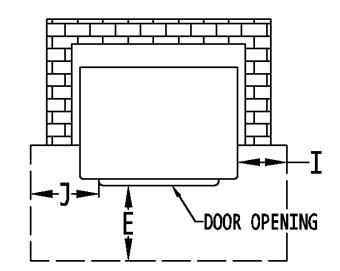
- 1. CONDITION OF THE FIREPLACE AND CHIMNEY: Examine the masonry fireplace and chimney prior to installation, to determine that they are free from cracks, loose mortar, creosote deposits, blockage, or other signs of deterioration. If evidence of deterioration is noted, the fireplace or chimney should be upgraded prior to installation.
- 2. INSTALLATION INTO AN EXISTING FACTORY-BUILT ZERO-CLEARANCE FIREPLACE: It is possible to install a wood insert into an existing factory-built zeroclearance fireplace. However, there currently exists no UL or ULC standard specific to that type of installation. The first thing that must be verified is that the factory-built zero clearance fireplace is listed (it must be certified by a competent certification body such as Omni or Warnock Hersey). It must be suitable for use with solid fuel and nothing in the owner's manual must specifically prohibit the installation of a fireplace insert. When in coupt, check with the fireplace manufacturer. The installation of the zero-clearance fireplace MUST be thoroughly inspected by a professional in order to ensure that it still meets the manufacturer's specs and code conformity. The chimney must be of at least 1" (25 mm) larger in diameter to accommodate a required continuous stainless steel line running from the flue collar to the top of the chimney termination.

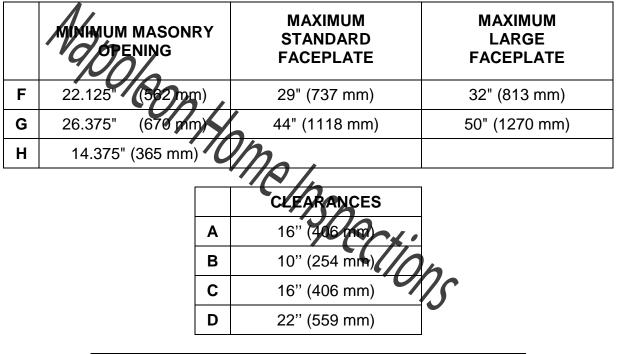
Never remove parts that serve to insulate the zero-clearance fireplace from combustible material. Only readily detachable parts that are easily replaced, such as damper parts, screens, and doors, are to be removed from the fireplace. These parts must be stored nearby and available for retrofinit the insert is ever removed. Removal of any parts which render the fireplace unfit for use with solid fuel requires the fireplace to be permanently labelled by the installer as being no longer suitable for solid fuel until the removed parts are replaced and the fireplace is restored to its original certified condition. Furthermore, any air vents, grilles, or louvers that serve to create an air circulation pattern around and outside the zero-clearance fireplace shall never be removed.

- 3. HEARTH EXTENSION: Verify that there is a non-combustible hearth extending at least 16" in front of the fireplace (18" for Canada, or 457 mm) and at least 8" (203mm) to the side of the fireplace. Fireplaces without this hearth extension will not meet the minimum requirements, and will require additional protection.
- 4. CHIMNEY CAPS: Mesh type chimney caps must have provision for regular cleaning, or the mesh should be removed to eliminate the potential of plugging.
- 5. LINER: The chimney must have an acceptable masonry liner suitable for solid fuel, otherwise a continuous stainless steel liner must be installed.

- 6. ADJACENT COMBUSTIBLES: The fireplace should be inspected to make sure that there is adequate clearance to combustibles, both exposed combustibles to the top, side, and front as well as concealed combustibles, in the chimney and mantle area. Your local inspector should have information on whether older fireplaces are of adequate construction.
- 7. OPENING SIZE: Refer to "Suitable Fireplace Dimensions" for suitable size fireplace openings.
- 8. The flue pipe must not go through roof trussing, an attic, a wardrobe, a floor, a combustible partition, or similar spaces.
- 9. A flue pipe crossing a combustible wall must have a minimum clearance of 18".
- 10. To reduce flue pipe clearances from combustible materials, contact your local safety department.







	FLOOR PROTECTOR			
	CANADA	USA		
Е	18'' (457 mm) – Note1	16" (406 mm) – Note 1		
I	8" (203 mm)	N/A (Canada only)		
J	N/A (USA only)	8" (203 mm)		

Note 1: From door opening. The depth of a non-combustible shelf in from of the insert is included in the calculation of the floor protector's dimensions.

IMPORTANT: The masonry hearth should be at least 4 inches (102mm) higher than the combustible floor in front of it. If the hearth elevation is lower than 4 inches, the non-combustible floor protector in front of the insert should have an R value equal or greater than 1.00.

VENTING REQUIREMENTS

The flue is a critical component to a satisfactory installation. Your insert will attain its best performance if installed with a flue that generates its own draft. The minimum venting requirement will be the installation of a flue connector from the insert into the first tile of the chimney (see Figure 2.3). If you are using a masonry chimney, it is important that it be built in compliance with the specifications of the National Building Code or other applicable standard having jurisdiction. It must be lined with fire clay bricks, metal or clay tiles sealed together with fire cement (round flues are the most efficient). Ideally, the interior diameter of the masonry chimney should be identical to the insert smoke exhaust. You may also run a stainless steel liner inside the masonry chimney. A continuous 6" (152mm) stainless steel liner from the top of the chimney to the insert's smoke exhaust (see Figure 2.2) is the optimum system and will provide the best performance, as well as compensate for poor draft situations caused by large cross-sectional chimneys. The insert will not work without a positive seal in the chimney.

Chimneys constructed outside of the home, on an exterior wall, should be avoided if possible, especially in colder climates. Outside chimneys may not draw as well and may downdraft due to the difficulty in heating them up to operating temperature. Cooler chimneys will result in increased creosoting, less draft, and poorer performance. Draft is proportional to overall chimney height as well as to stack temperature. Draft can be increased by increasing chimney height, and by reducing heat loss from the chimney through an insulated liner.

Ensure that all joints in the flue systems are tightly sealed, since any leaks will result in reduced performance as well as a possible safety hazard. Using a fire screen at the extremity of the chimney requires regular inspection in order to insure that it is not obstructed thus blocking the draught, and it should be cleaned when necessary.

Do not connect this unit to a chimney flue serving another appliance.

This heating unit must serve as a supplementary heat source. An alternate heat source should be available in the home if needed. The manufacturer cannot be responsible for additional heating costs associated with the use of an alternative heat source.

It is recommended that the user buys this product from a retailer who can provide installation and maintenance advices.

INSTALLATION INSTRUCTIONS

- 1. Inspect the fireplace according to the safety information and fireplace requirements and have it cleaned and/or upgraded as necessary.
- 2. If the installation of the unit renders the existing damper control inaccessible, it will be necessary to either secure the damper wide open or remove it entirely. An inaccessible damper which may fall shut later could cause smoke to enter the room. This would be a nuisance as well as a potential health hazard.
- 3. POSITIVE CONNECTOR INSTALLATION:

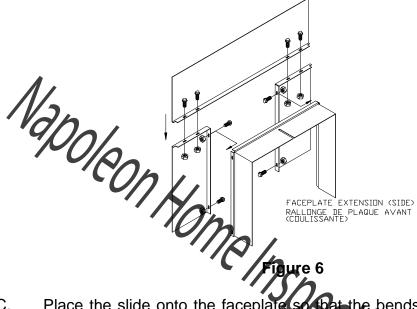
NOTE: A positive flue connector may provide acceptable performance; however, we recommend the use of a chimney liner to ensure satisfactory performance. Slip connectors for continuous liners should be installed similarly.

- A. Referring to the table and Figure 5, pick a location for the positive connector plate. It will be easiest to install the plate so that the hole for the flue is somewhere in between the extreme positions, and to use the adjustability of the faceplate to take up any inaccuracies in the fit. Alternatively, the plate itself can be moved up and back by using a of (162pm) extension directly on the flue.
- B. If you are securing the connector with a screw, the hole in the flue collar and the connector pipe should be drilled prior to final installation.
- C. Cut the plate to size and/or bend the edges over so that it will fit the cavity. The plate can then be secured to the throat of the fireplace using steel or masonry fasteners depending on the material. Locate the plate and drill through it into the backing material. Install the fasteners.
- D. Install the flat self-adhesive gasket around the inside of the 6" diameter (152mm) hole in the plate. Put the handle through the two holes in the throat connector (see Figure 4). Install the female end of the throat connector up through the hole in the plate so that it is held in position by friction, ready to be pulled down later.
- E. Positively seal any leaks between the plate and the brickwork. Any leaks will draw air into the fire, which will affect performance.

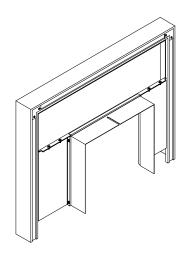
4. POSITIONING THE UNIT: The more extended the insert, the greater the heat transfer to the room. When installed as an extended insert, the front edge of the air jacket will be installed flush with the fireplace facing. Otherwise the unit can be moved back as much as 2.5" (64 mm) or any position in between. The position chosen will depend on your own preference for most installations (where the lintel is less than 6" (152mm) and the depth is greater than 12.5" (318mm)). See the table and Figure 5.

	THRUAT CON RACCORD DE -ADHESIVE GAS JCOLLANT PLAT		HANDLE (THRDUGH HOL POIGNEE (INSEREE DAT DANS LES TR	-ES) 12 13 14 15 15 15 15 15 15 15 15 15 15		N C N	Ire 5	
MAXIMUM EXTENDED	I	J		500	N	0	Р	AIR JACKET
INCHES	8 3/8	6 3/8	23 - 28	14 3/8	(hay	5 3/4	23 3/4	Flush with facing
MILLIMETERS	213	162	584-711	365	197	146	603	
MINIMUM EXTENDED		J	L	М	N	0	Р	AIR JACKET
INCHES	10 7/8	8 7/8	23 - 28	16 7/8	3 3/4	3 1/4	21 1/4	Back from
MILLIMETERS	276	225	584-711	429	95	83	540	facing 2 1/2" (64 mm)

- 5. If lag-bolts and anchors are to be used to secure the insert, the hole locations should be marked with the unit in place. Remove the unit and locate the anchors.
- 6. Remove the faceplate panels from their box and assemble according to these faceplate instructions:
 - A. Remove the slide from within the air jacket.
 - B. Place the faceplate face down on a flat, nonabrasive surface (see Figure 6) so that the sides are a bit towards the middle.



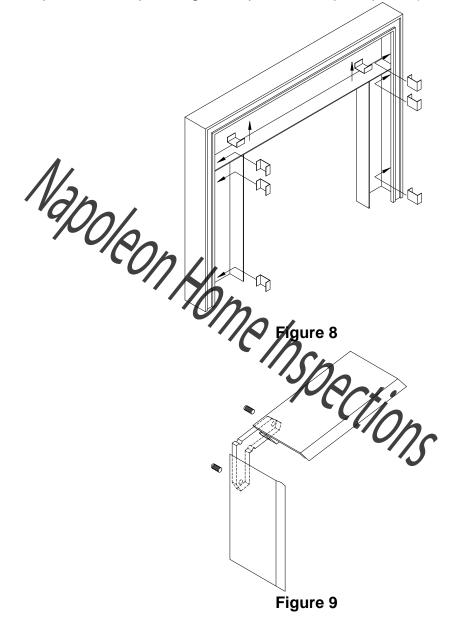
- C. Place the slide onto the faceplate so that the bends of the faceplate pieces go inside of the slide.
- D. Line up the holes by pushing the sides out and install (smooth heads inside) all the bolts loosely. Line up the edge of the faceplate top and side, tighten the two bolts joining them, and then tighten the side bolts. Tighten the bolts on the other side in the same manner (see Figure 7).





7. INSTALLATION ON FACEPLATE: Attach the mitred corners of trim together using the corner brackets. Slide the assembled trim over the edge of the faceplate. See Figures 8 and 9.

Attach the left and right sides to the top with corner brackets supplied. Slip the trim over the faceplate and snap the eight faceplate trim clips in place (see Figure 8).



- 8. Lift the insert into the fireplace. Square the insert to the face of the fireplace by adjusting the levelling legs on the sides at the rear of the insert. Check that the throat connector is in line.
- 9. If there is space to push the connector down from above, do so. Reach in through the insert and pull the throat connector down into place. If you are securing the connector to the flue collar with the screw, do that now.

10. Push the air control (A) in, all the way. Slide the adjustable faceplate sleeve back into its original location until the faceplate fits tightly against the fireplace facing. See Figure 10. One 7/16" (11mm) open end wrench should be used to turn the nut (B), located above the cooktop in the center, up so that it securely fastens the adjustable faceplate sleeve to the top air jacket. Take the air control slider spring handle (C) from the firebox and turn it onto the 1/4" diameter (6mm) air control rod (A).

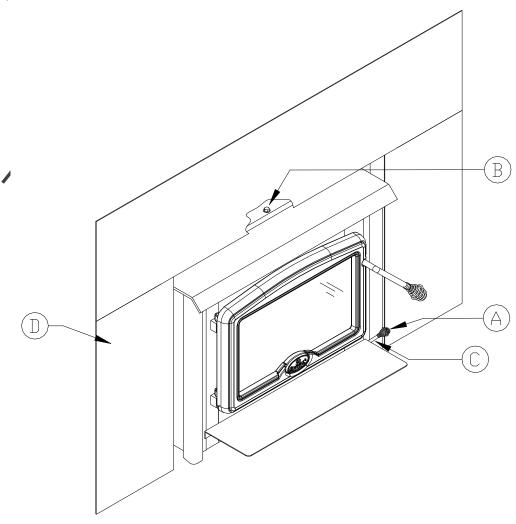


Figure 10

OPERATION

Your heating unit was designed to burn wood only; no other materials should be burnt. Wastes and other flammable materials should not be burnt in your wood insert. Any type of wood may be used in your insert, but specific varieties have better energy vields than others. Please consult the following table in order to make the best possible choice.

	Wood species	Energy yield (millions of BTU/cord)
	Oak	29
	Sugar Maple	28
High operativisid	Beech	26
High energy yield	Yellow birch	25
	Ash	24
Λι	Elm	23
//>.	Larch (Tamarack)	23
'dhai	Red Maple	23
"NOL	Douglas red fir	23
Medium energy yield	Silver birch	22
CON	Alder	18
	Poplar	17
	Hemlock	17
	Spruce	17
Low operawyield	Pine	17
Low energy yield	Base	16
	Fil	13

T.

IT IS EXTREMELY IMPORTANT THAT YOU USE DRY WOOD ONLY IN YOUR WOOD **INSERT.** The wood must have dried for 9 to 15 months, such that the humidity content (in weight) is reduced below 20% of the weight of the log. It is very important to keep in mind that even if the wood has been cut since one, two or even more years, it is not necessarily dry, if it has been stored in poor conditions; under extreme conditions, it may even rot instead of drying. The vast majority of the problems related to the operation of a wood insert are caused by the fact that the wood used was too damp or had dried in poor conditions. These problems can be:

- ignition problems
- creosote build-up causing chimney fires
- low energy yield
- blackened windows
- incomplete log combustion

Smaller pieces of wood will dry faster. All logs exceeding 6" in diameter should be split. The wood should not be stored directly on the ground. Air should circulate through the cord. A 24" to 48" air space should be left between each row of logs, which should be placed in the sunniest location possible. The upper layer of wood should be protected from the element but not the sides.

TESTING YOUR WOOD

When the insert is thoroughly warmed, place one piece of split wood (about five inches in diameter) parallel to the door on the bed of red embers. Keep the air control full open by pulling on it and close the door. If ignition of the piece is accomplished within 90 seconds from the time if was placed in the insert, your wood is correctly dried. If ignition takes longer, your wood is damp. If your wood hisses and water or vapour escapes at the ends of the piece, your wood is soaked or freshly cut. Do not use this wood in your insert. Large amounts of creosote could be deposited in your chimney, creating potential conditions for a chimney fire.

THE FIRST FIRES

The fresh paint on your insert needs to be cured to preserve its quality. Once the fuel charge is properly ignited, only burn small fires in your insert for the first four hours of operation. Never open the air control more than necessary to achieve a medium burn rate. Make sure that there's enough air circulation while curing the insert. The odours could be smelled during the 3 or 4 first fires. The light smoke created by the paint curing process is not toxic. Never start your insert outside. You will not be able to see if you are over heating.

IGNITION

After making sure that the insert ar intake controls are fully open, place several rumpled sheets of paper in the centre of the combustion chamber. Place 8 to 10 pieces of small dry kindling wood over the paper in the form one tent. You may also place a few pieces of heating wood, but choose the smaller ones. No memical product should be used to light the fire. Before igniting the paper and kindling your of is recommended that you warm up the chimney. This is done in order to avoid back arate problems often due to negative pressure in the house. If such is the case, open a window slightly near the insert and twist together a few sheets of newspaper into a torch. Light up this paper torch and hold it as close as possible to the mouth of the pipe inside the combustion chamber. We therefore advise you to leave the door slightly opened (1/4") for a 10 to 30 minutes period, under supervision, in order to allow for good combustion. After this time, you must close the door and progressively adjust the air control to obtain the desired temperature.

HEATING

Controlled combustion is the most efficient technique for wood heating because it enables you to select the type of combustion you want for each given situation. The wood will burn slowly if the wood insert air intake control is adjusted to reduce the oxygen supply in the combustion chamber to a minimum. On the other hand, wood will burn guickly if the air control is adjusted to admit a larger quantity of oxygen in the combustion chamber. The air intake control on your insert is very simple. If you move it completely to the right, it is fully open. If you move it completely to the left, it is fully close.

Your OSBURN insert burnt between .979 kg/h and 4.4 kg/h. of wood during EPA testing. Real operating conditions may give very different results than those obtained in the lab according to the species of wood used, its moisture content, the size and density of the pieces, the length of the chimney, altitude and outside temperature.

In order to achieve an optimum efficiency from your unit, we suggest that you operate it with the air control slightly open (approximately 10%). Make sure that you have a good fire going and an adequate ember bed before you completely close the air control. Closing the air control too soon will lower combustion efficiency and may cause the fire to die out. The addition of a blower tit not already included) is highly recommended to maximize your unit's efficiency. TOM

WARNINGS

- PART OF THE INSERT STARTS TO GLOW RED, OVER NEVER OVERFIRE YOUR INSERT. IF ANY FIRING IS HAPPENING. READJUST THE AIR INTAKE ONTROL AT A LOWER SETTING.
- THE INSTALLATION OF A LOG CRADLE IS NOT RECOMMENDED IN YOUR OSBURN WOOD INSERT.
- NEVER PUT WOOD ABOVE THE FIREBRICK LINING OF THE

RELOADING

Once you have obtained a good bed of embers, you should reload the unit. In order to do so, open the air controls to maximum a few seconds prior to opening the insert's door. Then proceed by opening the door very slowly; open it one or two inches for 5 to 10 seconds, before opening it completely to increase the draught and thus eliminate the smoke which is stagnant in a state of slow combustion in the insert. Then bring the red embers to the front of the insert and reload the unit.

For optimal operation of your wood insert, we recommend you to operate it with a wood load approximately equivalent to the height of fire bricks.

It is important to note that wood combustion consumes ambient oxygen in the room. In the case of negative pressure, it is a good idea to allow fresh air in the room, either by opening a window slightly or by installing a fresh air intake system on an outside wall.

CREOSOTE FORMATION AND NEED FOR REMOVAL

When wood is burned slowly, it produces tar and other organic vapours, which combine with expelled moisture to form creosote. The creosote vapours condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire. When burning wood, the chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a creosote build-up has occurred.

TO PREVENT CREOSOTE BUILD UP

- Always burn dry wood. This allows clean burns and higher chimney temperatures, therefore less creosote deposit.
- Leave the air control full open for about 10 min. every time you reload the insert to bring it back to proper operating temperatures. The secondary combustion can only take place if the firebox is hot enough.
- Always check for creosote deposit once every two months and have your chimney cleaned at least once a year.

ASH DISPOSAL

Ashes should be removed from the inset every few days or when ashes get to 2 to 3 inches deep. Always empty the insert when it is cold, such as in the morning.

Always dispose of ashes in a metal container with a tight fitting lid. Place this container on a non combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burgal in soil or otherwise locally dispersed, they should be retained in the close container until all cinders have thoroughly cooled.

CAUTIONS:

- ASHES COULD CONTAIN HOT EMBERS EVEN AFTER TWO DAYS WITHOUT OPERATING THE INSERT.
- THE ASH PAN CAN BECOME VERY HOT. WEAR GLOVES TO PREVENT INJURY.
- NEVER BURN THE INSERT WITH THE ASH TRAP OPEN. THIS WOULD RESULT IN OVER FIRING THE INSERT. DAMAGE TO THE INSERT AND EVEN HOUSE FIRE MAY RESULT.

MAINTENANCE

Your OSBURN insert is a high efficiency insert and therefore require little maintenance. It is important to perform a visual inspection of the insert every time it is emptied, in order to insure that no parts have been damaged, in which case repairs must be performed immediately.

GLASS

- Inspect the glass regularly in order to detect any cracks. If you spot one, turn the insert off immediately. Do not abuse the glass door by striking or slamming shut. Do not use the insert if the glass is broken.
- If the glass on your insert breaks, replace only with glazing supplied from the OSBURN dealer.
- To replace the glass, remove the screws retaining the gasket frame inside the door and lift. Beplace the damaged piece with a new one. Perform the procedure backwards after replacing. When replacing the glass, you should change the glass gasket to make sure you keep it sealed.
- Never wash the glass with a product that may scratch. Use a specialized product, available in the stores where wood inserts are sold.
- The glass should be washed only when cold.

GASKETING

It is recommended that you change the door gasket (which makes your insert door air tight) once a year, in order to insure good control over the combustion, maximum efficiency and security. To change the door gasket, simply remove the damaged one. Carefully clean the available gasket groove, apply a high temperature silicone sold for this purpose, and install the new gasket. You may light up your insert again approximately 24 hours after having completed this operation.

WARNING:

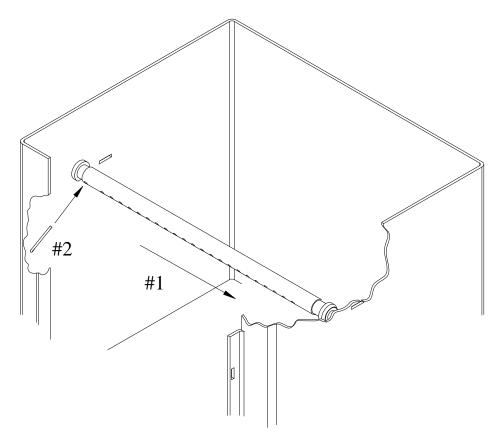
• NEVER OPERATE THE INSERT WITHOUT A GASKET OR WITH A BROKEN ONE. DAMAGE TO THE INSERT OR EVEN HOUSE FIRE MAY RESULT

<u>PAINT</u>

Only clean your insert with a dry soft cloth that will not harm the paint finish. If the paint becomes scratched or damaged, it is possible to give your wood insert a brand new look, by repainting it with a 1200 °F heat resistant paint. For this purpose, simply scrub the surface to be repainted with fine sand paper, clean it properly, and apply thin coats (2) of paint successively.

SECONDARY AIR TUBE REPLACEMENT

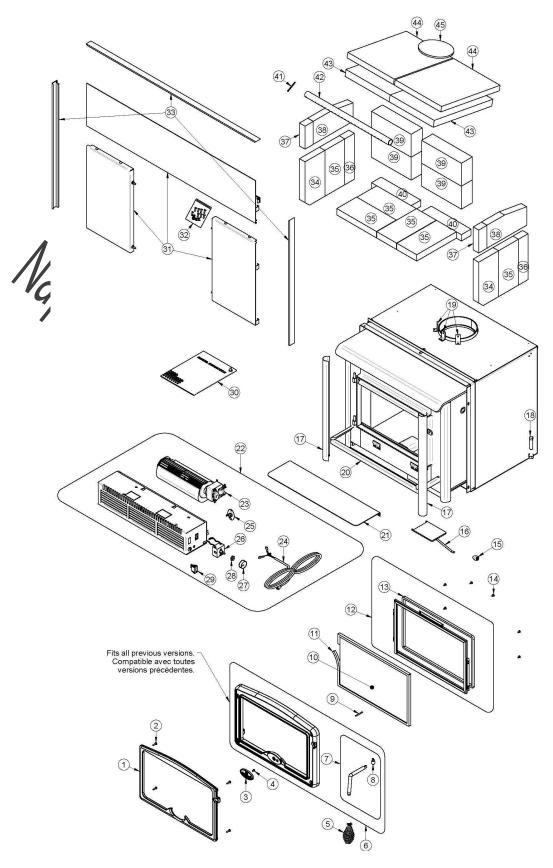
- 1. Remove cotter pin at left end of tube.
- 2. Slide tube to right and lower tube end below left plenum.
- 3. Slide tube to left to remove.
- 4. Reassemble in reverse order using a new cotter pin. The cotter pin is a hammerlock style and locks into place by hitting the head sharply with a hammer.
- 5. Note that any tube can be replaced without disturbing the baffle.



The air tubes are identified for placement as follows:

Model	Type of tube
Osburn 1600 Insert	Front \blacktriangleright 22 holes of 1/4"

EXPLODED DIAGRAM AND PARTS LIST



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your insert, please provide the model and the serial number. We reserve the right to change parts due to technology upgrade or availability. Contact an authorized dealer to obtain any of these parts. Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.

#	Item	Description	Qty
1	OA10232	GOLD PLATED CAST IRON DOOR OVERLAY	1
1	OA10231	BROWN CAST IRON DOOR OVERLAY	1
1	OA10234	BRUSHED NICKEL CAST IRON DOOR OVERLAY	1
1	OA10230	BLACK CAST IRON DOOR OVERLAY	1
2	30123	SCREW #8 - 32 X 5/8" PAN QUADREX ZINC	4
3	30450	OSBURN DOOR LOGO	1
4	30124	SCREW #8 - 32 X 5/16" TRUSS QUADREX ZINC	1
5	AC07868	1/2" BLACK COIL HANDLE	1
6	SE24/64	CAST IRON DOOR WITH HANDLE AND GASKET	1
7	AC09197	HANDLE AND LATCH KIT	1
8	AC09185	DOOR LATCH KIT	1
9	30101	SPRING TENSION PIN 5/32" DIA X 1 1/2"L	1
10	SE34103	REPLACEMENT CLASS WITH GASKET 10 1/8" X 16 1/8"	1
11	AC06400	3/4" (FLAT) X 6 BLACK SELF-ADHESIVE GLASS GASKET KIT	1
12	SE34060	GLASS RETAINER FRAME WITH GASKET 1000-1100-1600 SERIE	1
13	AC06000	SILICONE AND 1/2" X 8 BLACK DOOR GASKET KIT	1
14	30124	SCREW #8 - 32 X 5/16" TRUSS QUADREX ZINC	6
15	30102	1/4" CAST IRON AIR CONTROL HANOCH	1
16	SE34065	AIR CONTROL MECHANISM	1
17	PL34070-02	BLACK SIDE DECORATIVE COLOMN	2
18	30337	SQUARE HEAD SET SCREW 1/2-13 X 1-3/4	2
19	PL34052	LINER FIXATION BRACKET	3
20	PL34079-01	BLACK ASH SHELF TRIM	1
21	SE34078	ASH LIP	1
22	SE36003	120 CFM BLOWER/FAN WITH HOUSING	1
23	44070	CROSSFLOW BLOWER 115V-60Hz-56W	1
24	60013	POWER CORD 96" X 18-3 type SJT	1
25	44046	THERMODISC F110-20F	1
26	44080	RHEOSTAT WITH NUT	1
27	44085	RHEOSTAT KNOB	1
28	44087	RHEOSTAT NUT	1
29	44093	ROCKER SWITCH 2 POSITION (ON - OFF) WITH GOLD CONTACT	1
30	SE45084	INSTRUCTION MANUEL KIT OSBURN 1600 INSERT	1
31	OA10305	MEDIUM FACEPLATE KIT (32" X 44")	1
31	OA10310	LARGE FACEPLATE KIT (32" X 50")	1
31	OA10300	REGULAR FACEPLATE KIT (29" X 44")	1
32	SE15099	FACEPLATE HARDWARE KIT	1

#	Item	Description	Qty
33	OA10128	BLACK LARGE FACEPLATE TRIMS (32" X 50")	1
33	OA10126	BRUSHED NICKEL FACEPLATE TRIMS (32" X 44")	1
33	OA10122	BLACK FACEPLATE TRIMS (29" X 44")	1
33	OA10121	BRASS FACEPLATE TRIMS (29" X 44")	1
33	OA10124	BRASS FACEPLATE TRIMS (32" X 44")	1
33	OA10129	BRUSHED NICKEL LARGE FACEPLATE TRIMS (32" X 50")	1
33	OA10127	BRASS LARGE FACEPLATE TRIMS (32" X 50")	1
33	OA10125	BLACK FACEPLATE TRIMS (32" X 44")	1
33	OA10123	BRUSHED NICKEL FACEPLATE TRIMS (29" X 44")	1
34	PL36046	4 1/2" X 9" X 1 1/2" X 1 1/2" REFRACTORY BRICK	2
35	29020	4 1/2" X 9" X 1 1/4" REFRACTORY BRICK HD	6
36	PL36021	2 1/8" X 9" X 1 1/4" REFRACTORY BRICK	2
37	PL36024	1 7/8" X 4 3/8" X 1 1/4" REFRACTORY BRICK	2
38	PL36083	4 1/2" X 9" X 5" X 7/8" REFRACTORY BRICK	2
39	29016	4 1/2" X 9" X 2 1/2" REFRACTORY BRICK HD	4
40	PL36018	24(4" X 8 3/4" X 1 1/4" REFRACTORY BRICK	2
41	30068	STAIDLESS STEEL COTTER PIN 1/8" X 1 1/2"	1
42	PL34019	FRONT SECONDARY AIR TUBE	1
43	21291	C-CAST BAFFLE 13 1/2" X 10" X 1 1/4"	2
44	PL34047	10 1/2" X 13 12 X 13 BAFFLE INSULATION	2
45	PL34026	BAFFLE INSULATION WEIGHT	1

TEKENT SPECTIONS

OSBURN LIMITED LIFETIME WARRANTY

The warranty of the manufacturer extends only to the original retail purchaser and is not transferable. This warranty covers brand new products only, which have not been altered, modified nor repaired since shipment from factory. <u>Proof of purchase (dated bill of sale)</u>, model name and serial number must be supplied when making any warranty claim to your OSBURN dealer.

This warranty applies to normal residential use only. Damages caused by misuse, abuse, improper installation, lack of maintenance, over firing, negligence or accident during transportation, power failures, downdrafts, venting problems or under-estimated heating area are not covered by this warranty. The recommended heated area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature in the designated area in case of a power failure.

This warranty does not cover any scratch, corrosion, distortion, or discoloration. Any defect or damage caused by the use of unauthorized or other than original parts voids this warranty. An authorized qualified technician must perform the installation in accordance with the instructions supplied with this product and all local and national building codes. Any service call related to an improper installation is not covered by this warranty.

The manufacturer may require that defective products be returned or that digital pictures be provided to support the claim. Returned products are to be shipped prepaid to the manufacturer for investigation. Transportation fees to ship the product back to the purchaser will be paid by the manufacturer. Repair work covered by the warranty, executed at the purchaser's domicile by an authorized qualified technician requires the prior approval of the manufacturer. All parts and labour costs covered by this warranty are limited according to the table below.

The manufacturer, with liscretion, may decide to repair or replace any part or unit after inspection and investigation of the defect. The manufacturer may a ne descretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of any warranted but defective parts. The manufacturer shall, in no event, be responsible for any uncommon, indirect, consequential damages of any nature, which are in excess of the original purchase price of the product. A one-time replacement limit applies to all parts benefiting from lifetime coverage. The warranty applies to products purchased after June 1st, 2015.

DESCRIPTION Combustion chamber (welds only) and cast iron door frame Ceramic glass (thermal breakage only**), plating (manufacturing defect**) and convector air-mate. Surrounds, heat shields, ash drawer, steel legs, pedestal, trims (duminuo extrusions), C-Cast baffle**, vermiculite baffle**, secondary air tubes**, removable stainless steel combustion chamber deflectors and supports. Handle assembly, glass retainers and air control mechanism.	PARTS Lifetime Lifetime	LABOUR 5 years N/A
Ceramic glass (thermal breakage only**), plating (manufacturing defect**) and convector air-mate. Surrounds, heat shields, ash drawer, steel legs, pedestal, trims (aluminum extrusions), C-Cast baffle**, vermiculite baffle**, secondary air tubes*t, removable stainless steel combustion chamber deflectors and supports. Handle assembly, glass retainers and air control mechanism.		-
and convector air-mate. Surrounds, heat shields, ash drawer, steel legs, pedestal, trims (duminuo extrusions), C-Cast baffle**, vermiculite baffle**, secondary air tubes**, removable stainless steel combustion chamber deflectors and supports. Handle assembly, glass retainers and air control mechanism.	Lifetime	N/A
extrusions), C-Cast baffle**, vermiculite baffle**, secondary air tubes*, removable stainless steel combustion chamber deflectors and supports. Handle assembly, glass retainers and air control mechanism.		
	7 years	N/A
	5 years	3 years
Removable carbon steel combustion chamber components.	5 years	N/A
Standard and optional blower, heat sensors, switches, rheostat, wiring and electronics.	2 years	1 year
Paint (peeling**), gaskets, insulation, ceramic fiber blankets, firebricks and other options.	1 year	N/A
All parts replaced under the warranty.	90 days	N/A

*Subject to limitations above. **Picture required.

Labour cost and repair work to the account of the manufacturer are based on a predetermined rate schedule and must not exceed the wholesale price of the replacement part.

Shall your unit or a components be defective, contact immediately your **OSBURN** dealer. To accelerate processing of your warranty claim, make sure to have on hand the following information when calling:

- Your name, address and telephone number;
- Bill of sale and dealer's name;
- Installation configuration;

- Serial number and model name as indicated on the nameplate fixed to the back of your unit;
- Nature of the defect and any relevant information.

Before shipping your unit or defective component to our plant, you must obtain an Authorization Number from your OSBURN dealer. Any merchandise shipped to our plant without authorization will be refused automatically and returned to sender.