

ELECTRIC FIREPLACE MODELS: E36(L)(B)(H), E32(L)(B)(H) VE36(L)(B)(H) AND VE32(L)(B)(H) INSTALLATION INSTRUCTIONS AND HOMEOWNER'S MANUAL

For more information, visit www.desatech.com

INSTALLER AND CONSUMER SAFETY INFORMATION

PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING APPLIANCE



WARNING!

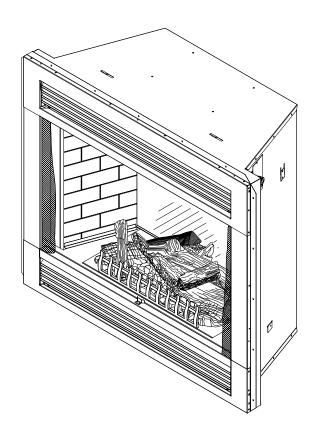


IF THE INFORMATION IN THIS
MANUAL IS NOT FOLLOWED
EXACTLY, AN ELECTRICAL SHOCK
OR FIRE MAY RESULT CAUSING
PROPERTY DAMAGE, PERSONAL
INJURY OR LOSS OF LIFE.

FOR YOUR SAFETY

Service must be performed by a qualified service agency.

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.



MODEL (V) E36LBH SHOWN



IMPORTANT INSTRUCTIONS - SAVE THESE INSTRUCTIONS

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SAFETY INFORMATION



WARNING: Electrical wiring must comply with local building codes and other applicable regulations to reduce the risk of fire, electrical shock and injury to persons.



WARNING: Do not use this fireplace if any part of it has been under water. Immediately call a qualified service technician to inspect the fireplace and replace any part of the electrical system.



CAUTION: Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.

- 1. Read all instructions before using this appliance.
- 2. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when accessing the heater controls. Keep combustible materials, such as furniture, pillows, bedding papers, clothes, and curtains at least 3 feet from the front of this appliance.
- 3. Always place the main power switch in the off position when not in use.
- 4. Do not operate the heater if any part has been damaged or is malfunctioning.
- 5. Any repairs to this fireplace should be carried out by a qualified service person.

- Under no circumstances should this fireplace be modified. Parts having to be removed for servicing must be replaced prior to operating this fireplace again.
- 8. This heater is not intended for use in bathrooms, laundry areas and similar locations were it would be subject to excessive moisture.
- 9. This heater may not be installed outdoors or in an unenclosed space where exposed to the elements.
- 10. To disconnect this appliance it must be turned off at the branch circuit breaker.
- 11. This appliance, when installed must be electrically grounded in accordance with local codes and the National Electrical Code, ANSI/NFPA No. 70 or in Canada with CSA C22.1 Canadian Electrical code.
- 12. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electrical shock, a fire or damage the appliance.
- 13. To prevent a possible fire, do not block air intakes or exhaust in any manner.
- 14. This appliance has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are used or stored. This fireplace should not be used as a drying rack for clothing nor should Christmas stockings or decorations be hung in the area of it.
- 15. Use this appliance only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock or injury to persons.
- 16. SAVE THESE INSTRUCTIONS.



LOCATING THE FIREPLACE HEATER

Plan where to locate and frame the fireplace heater. This will save time and money later when you install the fireplace. Before installation consider the following:

- 1. Where the firebox is located must allow for wall and ceiling clearances (see *Installation Clearances*).
- 2. Consider a location where the appliance screen will not be exposed to direct sunlight from windows or doors.
- 3. A 15 ampere, 120 Volt, 60 Hz branch circuit with proper ground must be available at the location. Preferably a dedicated branch circuit should be provided to avoid circuit breakers to trip or fuses to blow.

Flush installations are recommended where living space is limited or at a premium. Since the space required to enclose the appliance would be located beyond an outside wall, this installation would require additional planning and construction. Check local codes for any restrictions.

Projected installations can extend any distance into the room. A projection may be ideal for a new addition on an existing, finished wall.

Corner installations make use of space that may not normally be used and provides wider and more efficient heat distribution.

Internal wall installations provide a discreet option for room separation and can also be an ideal addition to an existing wall.

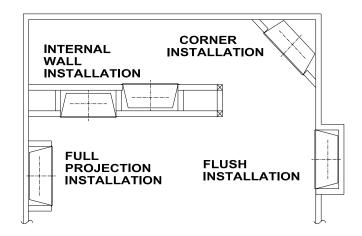


Figure 1 - Possible Locations for Installation

INSTALLATION CLEARANCES

Minimum clearances to combustible are:

- Top, Back and Sides of Recessed Cabinet 0" Min.
- Drywall to Sides of Front Face 0" Min.
- Framing at Nailing Flanges 0" Min.
- Floor 0" Min.
- Perpendicular Side Wall10" Min.
- Mantle Clearances See Figures 2 and 3

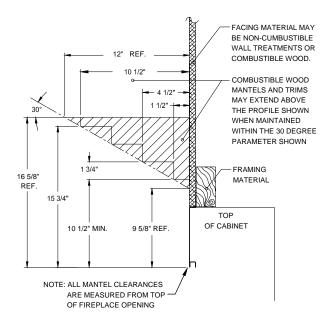


Figure 2 – Mantel Clearances

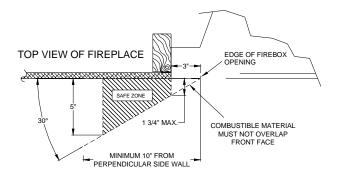


Figure 3 - Mantel Side Clearance



PRODUCT SPECIFICATIONS

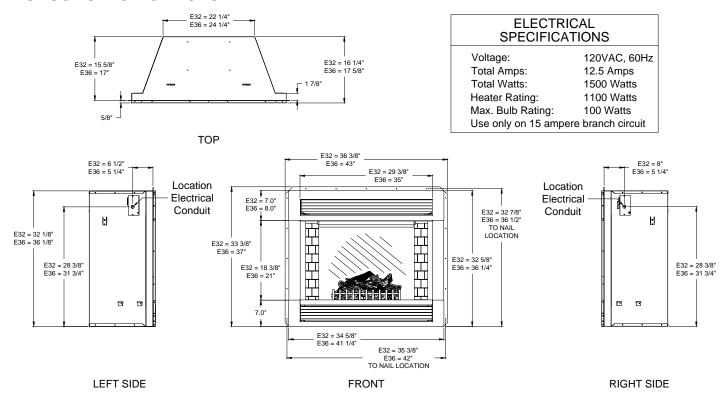


Figure 4 - Unit Dimensions

HEARTH DIMENSIONS

Although not mandatory, a hearth extension is suggested for aesthetic purposes. The appliance may be raised on a wood or non-combustible platform supporting its entire width and depth and extending in front of the appliance as long as the louvers are not obstructed.

NOTE: In cold climates, when installing the appliance against a non-insulated exterior wall, outer wall must be fully insulated in accordance with local building code.

FRAMING DIMENSIONS

Built-in installations require a framed-in enclosure constructed of 2 x 4 or heavier lumber and sized in accordance with Figure 5. This allows the unit to slide into the opening and be nailed to the stud space at the sides and top nailing flanges. These flanges accept 5/8" drywall or plywood board to finish the unit flush to the face. Optional trim accessories are available that will extend ½" over rough edge of the wall opening (see *Accessories*, page 21).

IMPORTANT: If installing a perimeter trim kit, you must install shoulder screws before inserting firebox into opening. See instructions included with the trim kit. If installing a mantel above the firebox, you must follow clearance instructions (see *Installation Clearances*, page 3).

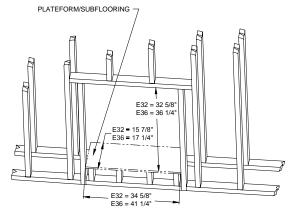


Figure 5 - Framing Dimensions

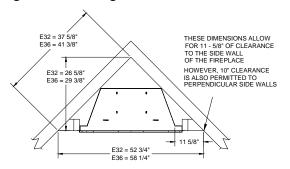


Figure 6 - Corner Dimensions



ELECTRICAL INSTALLATION



WARNING: Any electrical re-wiring of this appliance must be done by a qualified electrician. This wiring must be done in accordance with local codes and/or in the U.S.A. with the current, National Electrical Code ANSI/NFPA No 70 and in Canada with CSA C22.1 Canadian Electric code.



This fireplace should be connected to a dedicated 15 Amp, branch circuit as other appliances may cause the circuit breaker to trip or the fuse to blow when the heater is in operation.

A junction box with universal strain adaptor is provided to hard wire the unit to a 15 AMP, 120Volt, 60 Hz grounded branch circuit from the right side. If necessary the junction box may be relocated to route supply to the left side by following these instructions:

- 1. Remove the 2 screws and outer cover on the right side (see **Figure 7**).
- 2. Remove the inner screw retaining the junction box.
- 3. Slide the junction box up until the screw mounting tab is lined up to the notch in the outer cabinet.
- 4. Swing the box out and slip the retaining flange out through the slot in the outer cabinet.
- 5. Remove the 2 screws and outer cover on the left side and reattach now on the right side of the outer cabinet.
- 6. Swing the junction box with harness to the left side while pulling sufficient length of harness out through the control panel cover to reach the mounting location on the left side (see **Figure 8**).
- 7. Reinsert the retaining flange through the slot and swing the screw mounting tab back through the notch as before.
- 8. Slide the junction box down till the mounting holes line up and replace the inner retaining screw.
- 9. Pull end of 3-wire Romex supply line through the universal strain relief bushing in the remaining cover.
- 10. Strip back the outer Romex to about 4" and connect the black, white and green wires accordingly using approved connectors.
- 11. Tuck the tailing wires into the junction box and replace the cover using the 2 remaining screws.
- 12. Tighten down the strain adjustment on the universal bushing until the Romex sheathing is secured.

The electrical connection is now complete.

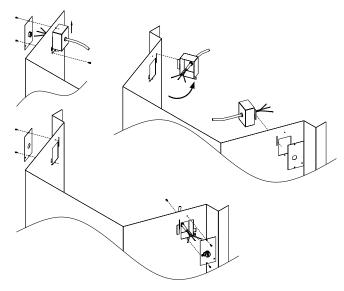


Figure 7 - Relocating Junction Box to Left Side

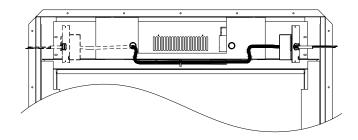


Figure 8 - Rerouting Harness to Left Side

IMPORTANT: Be sure to inspect the components and wiring for damage before connecting power to the unit. If any components are found damaged, contact an authorized dealer for original DESA replacement part(s) or call DESA at 1-866-872-6040 for referral.

IMPORTANT: Prior to operation remove the foam shipping brace located under the motor mount (see **Figure 9**).

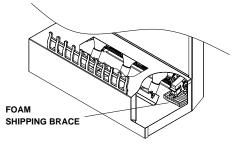


Figure 9 - Removing Shipping Brace



HEARTH ASSEMBLY

Before operating the appliance the lamp bulbs must be inspected and lava rock treatments, if desired, may be added as follows:

- 1. Lift the log bed off the hearth base to gain access to the lamp fixtures, (the log bed is attached with contact magnets only).
- 2. Turn the power on to the light circuit and check that all bulbs are operating. The Red bulb is placed in the left most fixture and the Yellow and Orange follow in that order. See **Figure 10**.

NOTE: If any bulbs need replacing, see *Replacing Light Bulbs*, page **13**. Be careful not to tear or damage the reflective strips. If they have come loose, the ends can be easily reattached or replaced at the support brackets. See - *Replacing Reflecting Ribbons*, page **18**.

- 4. Center the log bed over the opening and in between the screen and grate.
- 5. Cover the remaining hearth area with a ¼" layer of lava rock provided.



Models (V)E36/32L series electronic fireplaces feature a random flame effect, and realistic log bed with glistening embers that can be adjusted for flame speed and light intensity.

Models (V)E36/32LH have an added circulating heater, rated at 1100 W.

In addition to a heater, the models **E36/32LB** and **E36/32LBH** include a hand detailed, textured red-brick lining (Models **VE36/32LB** and **VE36/32LBH** come standard with natural white brick).

The controls can be accessed by pulling on the top outer edges of the uppermost louver until the panel releases from the magnetic catches on each side and swings down to the open position. See **Figure 11**.

Figure 12 shows the control layout for heater equipped models with the main power switch to the flame controls and the heater power switch (when equipped) to the heating unit. This allows independent and efficient operation of both features.

Once main power is turned on, flame speed and brightness may be turned on and adjusted independently.

A slow flame speed creates a soothing appearance of a romantic fire while a high flame speed invites the presence of a warm roaring fire.

The flame brightness may be adjusted to accommodate a particular mood or lighting situation within the room.

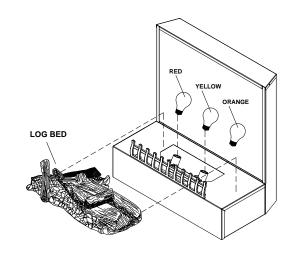


Figure 10 - Hearth Assembly

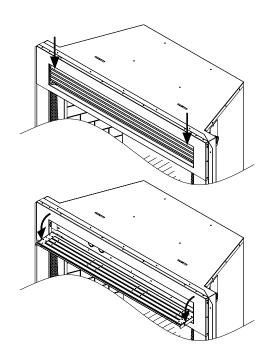
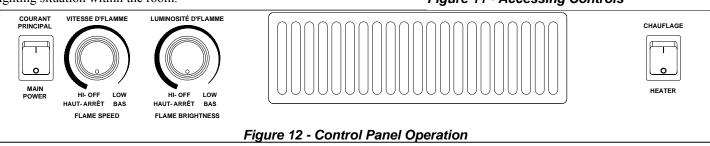


Figure 11 - Accessing Controls



INSTALLING OPTIONAL ACCESSORIES

OPTIONAL GLASS DOORS

Models **E36L**, **E32L**, **VE36L** and **VE32L** may accept bi-fold glass doors that are fully operable or a fixed panel door that limit access to the fireplace, (see *Accessories* page **24**).

Installing BD36/32 Series Bi-Fold Glass Doors

Follow these steps to install left and right operable panels:

- 1. With the handle down, completely fold the panel on its hinges.
- 2. With handle facing the center of the firebox opening, insert the lower pivot pin on the door panel into the hole in the bottom outer edge of the fireplace opening. See **Figure 13**.
- 3. Keep the folded door tilted and slide the upper two pins into the guide track below the upper facial edge of the firebox opening.
- 4. Tilt the glass assembly fully vertical until the outer pivot pin snaps into the mounting hole in the upper spring clip.
- 5. Once the top and bottom pins are secured, unfold the door into the closed position.
- 6. Repeat steps 1 through 5 for the opposite door assembly.
- 7. To adjust the doors, slide them partially open. Using a Phillips screwdriver, loosen the hold-down screws on the spring clips (see **Figure 14**).
- 8. Close both doors until evenly joined at the middle and note the gap as measured to the outer edges of the front face.
- 9. Reopen each door one at a time and retighten the hold-down screw while preserving the noted gap at each edge.
- 10. Repeat the process until both doors are evenly joined, spaced and working freely.

Removing Bi-Fold Glass Doors

Bi-fold doors may be removed for replacing or cleaning as follows:

- Partially open each door and press up on the upper spring clip with a screw driver until the outer top pivot pin is free of the clip.
- Fully fold the frame assembly and slide the upper edge towards the center of the firebox opening until the guide pins are free of the frame rail (see Figure 13).

Installing/Removing FD36/32 Series Fixed Glass Doors

Fixed glass doors may be installed as follows:

1. Hold the glass door firmly at both handles and insert top pins into the clips located below the upper facial edge of the firebox opening. Make sure the top pins snap securely into the holes on the spring clips (see **Figure 15**).

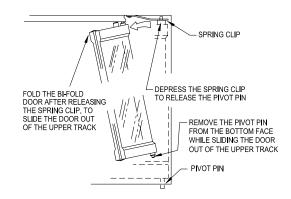


Figure 13 - Installing/Removing Glass Doors

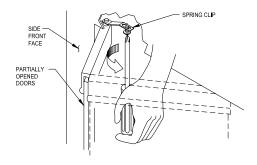


Figure 14 - Adjusting Glass Doors

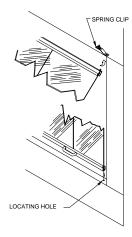


Figure 15 - Installing Fixed Glass Doors

2. As you push up on the glass against the tension of the spring clips, swing the lower door in toward the face until the bottom pins clear the bottom rail and seat into the locating holes on each end. (see **Figure 13**).

Note: If the pins do not align into the spring clips, slightly loosen the retaining screw on each clip (see **Figure 14**). Reinsert the panel into each spring clip and align the panel into the lower locating holes. Remove the panel, finish tighten the retaining screws in place and then reinsert the panel again.



OPTIONAL BRICK LINERS

Installing/Removing BL36/32E(W) Brick Liner Kits

Models (V)E36/32(L)(H) may accept optional BL36/32E(W) brick liner kits (see *Accessories*, page 24). The brick panels may be installed anytime after the fireplace installation is complete.

Follow these steps to install left and right panels:

- 1. Remove the glass doors (if equipped) follow the instructions under *Optional Glass Doors*, page 7.
- 2. Remove each retaining screw holding the screen rods and pull entire screen and rod assembly out from the locating hole on the inside top of each screen pocket (see **Figure 16**).
- 3. Remove log bed from hearth pan and place in a safe area. The log bed is attached with contact magnets only.
- 4. Remove the two screws holding each face extension to the firebox. Then pull up and lift out of the positioning slot at the bottom of the hearth pan (see **Figure 17**).
- 5. Insert the brick panel, with the beveled edge first, through the firebox opening. Then tilt and angle the top edge into the brick retainer until the bevel edge contacts the imager and the panel is flat against the firebox (see **Figure 18**).
- 6. Align the heart extension over the holes near the lower edge of the brick panel and secure with 2 pan screws provided.
- 7. Replace the face extension using the 2 screws removed prior.
- 8. Repeat steps 5 through 7 for the opposite panel assembly.
- 9. Replace each screen assembly by positioning the screen rod into locating holes at the very top of each screen pocket and securing with the 2 Phillips screws removed prior.

Note: The rods may have to be angled into the locating holes which are exposed through a knockout at the top of each screen pocket. Once inserted, pull the free end of the rod forward until it lines up over the farthest mounting hole respectively so both rods overlap.

- 10. Replace the log bed over the hearth opening and center between the grate and the viewing screen.
- 11. Replace glass doors if removed. See *Optional Glass Doors*.

OPTIONAL HEATER ACCESSORY



Disconnect power before attempting any maintenance or cleaning to reduce the risk of fire, electrical shock or personal injury.

The models (V)E36/32L and (V)E36/32LB will accept the model **BHKE** blower/heater kit. Either of 2 types of blower/heater assemblies can be installed as follows on page 9:

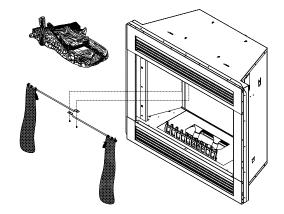


Figure 16 - Removing Screens/Rod Assemblies

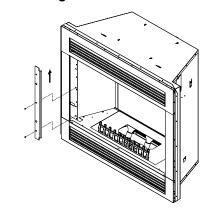


Figure 17 - Removing Face Extensions

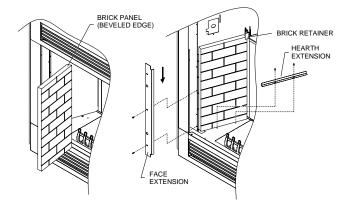


Figure 18 - Installing Brick Panels and Brackets

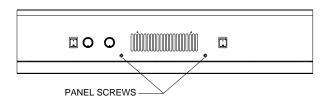


Figure 19 -Locating Front Panel Screws



OPTIONAL HEATER ACCESSORY Continued

- 1. Open the upper control door (see **Figure 11**, on page **6**) and remove the 2 Phillips screws below heater grill. See **Figure 19**.
- 2. Remove 2 Phillips screws holding the control cover to the control panel inside the firebox (see **Figure 20**).
- 3. Slide the control cover to the right and swing out the locking tabs from the notched openings on top. See detail on **Figure 20**.
- 4. Let the control cover hang down off the harnesses. Be careful not to damage any wiring. If necessary you can unscrew the harness strap at the blower mount to gain slack. See **Figure 21**.
- 5. Remove the 2 Hex screws at rear blower mount. See Figure 20.
- 6. Slide the blower mount towards the rear firebox until the locking tabs line up with the notched openings and lower the mount down and away. See detail **Figure 20**.
- 7. Remove the blower/heater assembly with 4 screws from the packaging. The blower is pre-wired for convenience.
- 8. Align blower assembly over hole pattern on blower mount and attach with 4 pan head screws provided. See **Figures 21** or **22**.
- 9. With the discharge pointing towards you, guide the assembled blower mount into the firebox and center the rear mounting flanges between the standoff brackets against the rear firebox.
- 10.Lift the blower mount up and position the 4 locking tabs through the notched openings in the firebox top, then slide the assembly forward until locked into position.
- 11.Remove the control panel knockout plug located in the heater switch position by depressing the locking tabs and pushing the plug out through the front of the panel. See **Figure 23**.
- 12. Firmly insert the red power switch, provided, into the open mount location with the "ON" (1) indicator positioned on top.

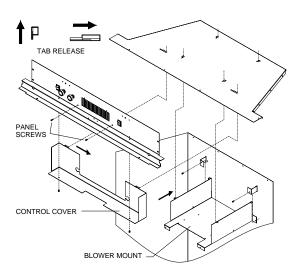


Figure 20 - Disassembling Blower Mount

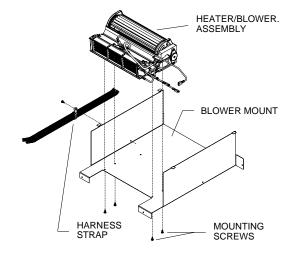


Figure 21 - Mounting Heater/Blower

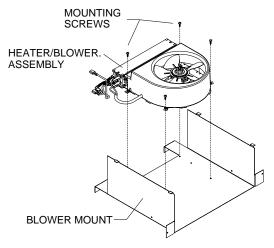


Figure 22 – Mounting Alternate Blower/Heater

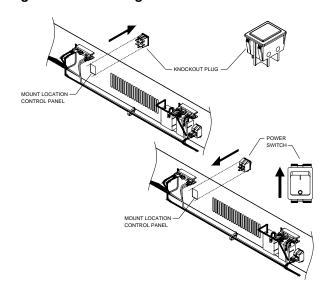


Figure 23 - Installing Heater Power Switch



OPTIONAL HEATER ACCESSORY Continued

- 13. Connect White heater wire to neutral connection marked 'B' or 'A' on terminal block. See partial wiring diagram, Figure 24.
- 14. Connect **Black** heater wire to terminal marked 'N-1' on the heater power, switch (see **Figure 25**).

Note: On alternate style heaters the **White** and **Black** wires are connected common at terminal 'N-1' (see Figure 26).

- 15. Connect **Red** heater wire to terminal marked 'L-4' on heater power switch. See partial wiring diagram, **Figure 25** or **26**.
- 16. Connect one end of the **Black** jumper lead, provided in the kit, to the power connection marked '**D**' on the terminal block and the other end to switch terminal marked '**L**-5' (see **Figure 27**).
- 17. Replace the 2 Hex screws on rear flanges of the blower mount.
- 18. Remount the harness strap to the blower mount, if removed.
- 19. Make sure all wires are clear of the heater discharge area, line up the mounting holes on the front blower mount to the holes in the control panel and replace the 2 black pan head screws.
- 20. Raise the control cover up and position the 2 locking tabs through the notched openings in the firebox top, then slide to the left until locked into position. See **Figure 20**, page **9**.
- 21. Tuck any excess slack in harnesses into control cover, swing cover down to line-up mounting holes on control panel and replace the 2 Phillips screws removed prior.
- 22. Restore power to the unit and check operation of the heater.

IMPORTANT: Be sure to inspect the components and wiring for damage before connecting power to the unit. If any components are found damaged, contact an authorized dealer for original DESA replacement part(s) or call DESA at 1-866-872-6040 for referral.

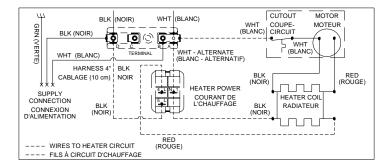


Figure 24 - Heater Circuit Connection Diagram

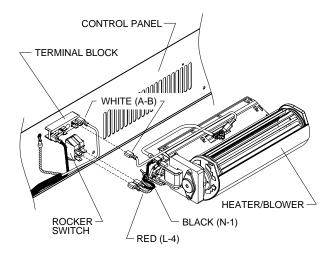


Figure 25 - Connecting Heater Wires

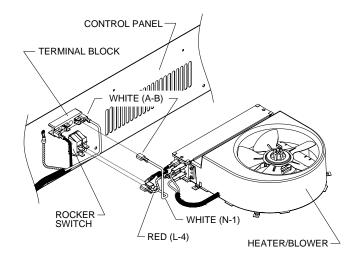


Figure 26 - Connecting Alternate Heater Wires

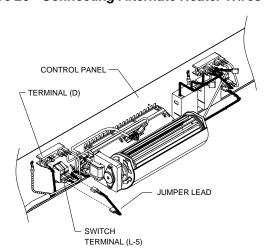


Figure 27 - Connecting Jumper Lead



TROUBLESHOOTING

Note: For additional help, visit DESA Technical Service web site at **www.desatech.com**

Note: Before trouble shooting the system, make sure the power to the circuit from the breaker or fuse panel is turned ON.

The three most common causes of a malfunctioning heater are:

- 1. Tripped circuit breaker or blown fuse.
- 2. Loose or burned out light bulb.
- 3. Obstructed or clogged fan blower.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY		
No operation or indicator light at power/ heater switch.	1. No power to appliance.	Check circuit breaker or fuse.		
	2. Defector switch lamp.	2. Replace defective switch. See <i>Servicing Control Panel</i> , page 14 .		
	3. Defective wiring.	3. Check connections from main power harnesses to terminals on control panel. See <i>Servicing Control Panel</i> , page 14 .		
Poor flame motion; flame pattern is sporadic or devoid in viewing area.	1. Tangled or loose flame pennants.	Inspect flame pennants untangle or replace if necessary. See <i>Servicing Flame</i> <i>Pennants</i> , page 17.		
	2. Obstructed or clogged fan blower.	2. Check fan blower for debris; vacuum areas around blower wheel and remove any obstructions. See <i>Maintaining Motors</i> , page 13 .		
	3. Damaged or dislodged fan blower wheel.	3. Remove and inspect fan blower housing See <i>Servicing Fan Blower</i> , page 16 .		
Dull flame appearance or inactive ember bed effect.	1. Burned out or loose light bulb.	Inspect light bulbs; tighten or replace light bulbs as necessary. See <i>Replacing Light Bulbs</i> , page 13.		
	2. Broken lamp fixture.	2. Remove and replace broken lamp fixture See <i>Replacing Lamp Fixtures</i> , page 17 .		
	3. Loose or missing reflective ribbons.	3. Inspect reflective ribbons; Reattach or replace as necessary. See <i>Replacing Reflective Ribbons</i> , page 18 .		
No heat or intermittent heat output. (If equipped with a heater)	1. Obstructed heater blower.	1. Clear heater fan of debris or blockage; vacuum area around blower intake and remove any obstructions in the discharge area. See <i>Maintaining Motors</i> , page 13 .		
	2. Burned out heat element or blower fan.	2. Remove and replace blower heater assembly. To access and remove see <i>Optional Heater Accessory</i> , page 8 .		
	3. Defective heater switch or wiring.	3. Inspect wiring connections from switch to blower. Replace switch if defective. See <i>Servicing Control Panel</i> , page 14 .		



WIRING DIAGRAM

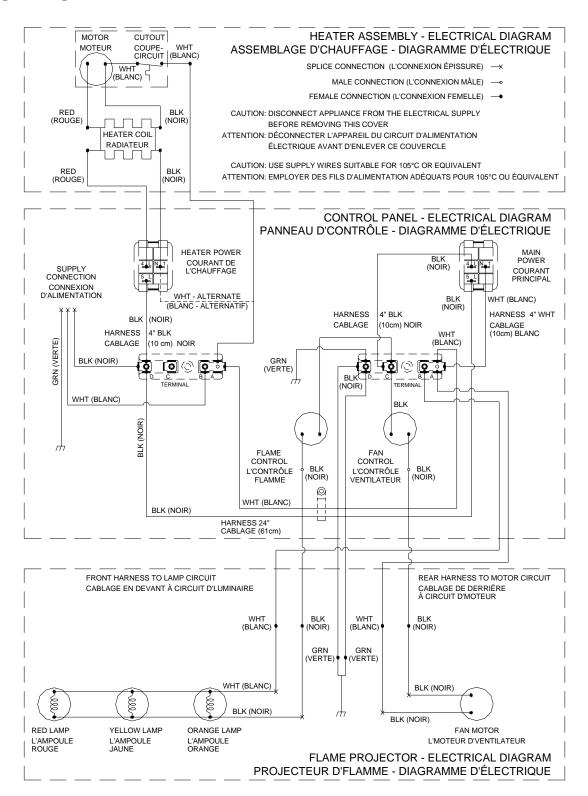


Figure 28 - Wiring Diagram

TECHNICAL SERVICE



Disconnect power before attempting any maintenance or cleaning to reduce the risk of fire, electrical shock or personal injury.



Any electrical repairs or rewiring of this unit should be carried out by a licensed electrician in accordance with national and local codes.



Do not exceed 100 Watts per bulb when replacing bulbs. Use of higher-rated bulbs may result in fire, causing property damage, personal injury, or loss of life.

Replacing Light Bulbs

There are (3) colored lamps rated at 120V, 100 Watts, for use in a medium sized socket. These bulbs are located under the log bed and can be replaced as follows:

- If you are unsure which bulb need replacement, defective bulbs may be visually located as any of 3 bulbs colored Red, Yellow and Orange starting from the left (see Figure 10, page 6). Defective bulbs can be replaced individually or for convenience you may want to replace all the light bulbs even if only one is defective.
- 2. Disconnect power to the unit at the main breaker or fuse panel.
- 3. Lift the log bed off the hearth base to gain access to the lamp fixtures; log bed is attached with contact magnets only.
- 4. Remove each defective bulb from its socket, and replace with the appropriate color and size bulb.

NOTE: be careful not to tear or damage the reflective ribbon. If they have come loose, they can be easily reattached or replaced at the support brackets. See – *Replacing Reflective Ribbons*, page 18.

- Return power to the circuit and turn main power switch and lamp power on to check the operation of the bulbs before replacing the log set.
- 6. If all the bulbs are working properly replace the log bed over the center opening in between the rear screen and front grate.



Make sure the power is turned off at the supply prior to disassembling this unit.

Maintaining Motors

Motors used on the fan and heater assembly are permanently lubricated do not require lubrication. Annual cleaning and/or vacuuming around the heater and fan unit is recommended.

Removing/Replacing Control Door

The upper control door may be removed for service or replacement when necessary:

- 1. Open the upper control door. See **Figure 11**, page **6**.
- 2. Remove 4 Phillips screws above the heater grill and angle the deflector shield out the opening. See **Figure 29**.
- 3. Remove the 4 Phillips screws with magnet assemblies.
- 4. Lift up on the inner control door and push in each end until the pivot pins are free of the notches located on each side of the access opening. See **Figure 29**.
- 5. Rotate the control door up into the control compartment and slide one end into the side of the compartment.
- 6. Tilt out one end first then pull the remaining door assembly through the opening.
- 7. Replace the door, by starting with door upside down and pins facing the unit. Follow steps 1 through 5 in reverse.
- 8. Replace the discharge deflector and magnet assemblies.

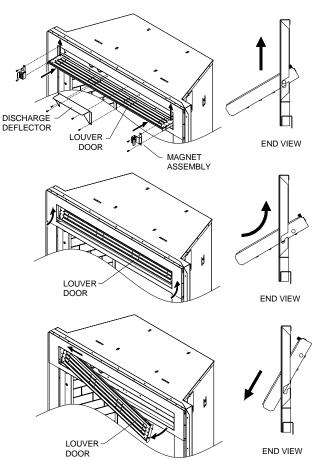


Figure 29 - Removing/Replacing Control Door



ELECTRIC FIREPLACE INSTALLATION INSTRUCTIONS

Models: (V)E32L, (V)E32LB, (V)E32LH, (V)E32LBH (V)E36L, (V)E36LB, (V)E36LH and (V)E36LBH

Servicing Control Panel

The control panel can be serviced from inside the unit by removing the control cover on the inside of the firebox, follow steps 3 through 5 under *Optional Heater Accessory*, page **9**.

If the control assembly needs complete replacement, proceed to remove as follows:

- 1. Remove the glass doors (if equipped). See *Optional Glass Doors*, on page 7.
- 2. Remove retaining screws holding the screen rods and pull screen assemblies out from the locating hole on the inside top of each screen pocket (see **Figure 16**, page **8**).
- 3. Remove 2 Phillips screws holding the control cover to the control panel inside the firebox (see **Figure 20**, page **9**).
- 4. Slide the control cover to the right and swing out the locking tabs from the notched openings on top. See detail on **Figure 20**, page **9**.
- 5. Pop out the bushings on the control cover and slip the power harnesses free from the control cover. See **Figure 30**.
- 6. Remove the magnet assemblies, discharge deflector and control door. See *Removing/Replacing Control Door*, page **13**.
- 7. Tilt entire control assembly forward until lower flange clears the upper door rail then slide assembly down the space between the front face and the firebox mount (see detail **Figure 31**).
- 8. Angle control panel out through the opening (see **Figure 31**).
- Follow these instructions in reverse order to reassemble the control panel.

Note: Be certain that all wires, harnesses and bushings are returned to their normal position and free of damage before reconnecting the supply power to the appliance.



CAUTION: Note the location of all wires prior to disconnecting. Be sure to reconnect wires to their proper locations. If you are unsure about the proper wire locations, follow the wiring diagram Figure 28, on page 12.

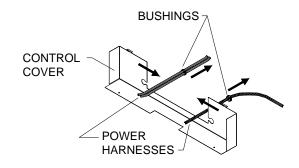


Figure 30 - Detaching Power Harnesses

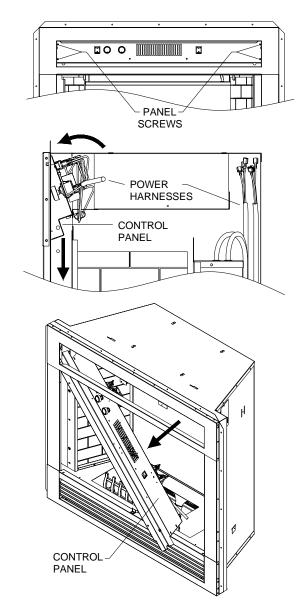


Figure 31 -Removing Control Panel



Accessing Imaging Unit

The imaging unit can be accessed from inside the firebox for servicing as follows:

- 1. Remove the glass doors (if equipped). See *Optional Glass Doors*, page 7.
- 2. Remove the screens, grate and brick liners. See **Figure 32** and instructions under *Optional Brick Liners*, page **8**).
- 3. Remove 4 Phillips screws holding the hearth pan to the firebox and 2 located at the lower frame rail (see **Figure 33**).
- 4. Lift the rear ends of the hearth pan up until the front edge clears the lower frame rail then slide up on one end and angle out of the firebox opening. See **Figure 33**.
- 5. Remove the 4 Phillips screws holding the face extensions at the top refractory clips. See **Figure 34**.
- 6. Remove the viewing screen from the cabinet face. The viewing screen is attached by magnets. See **Figure 35**, page **16**.

Note: Do not scratch the viewing screen. Place it on a nonabrasive surface away from work area. When replacing the viewing screen the painted side must face inside of cabinet with pattern facing up.

7. Remove 4 Phillips screws on base cover and lift the cover off the cabinet base. See **Figure 36**, page **16**.

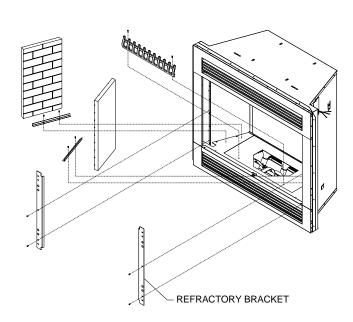


Figure 32 - Accessing Imaging Unit

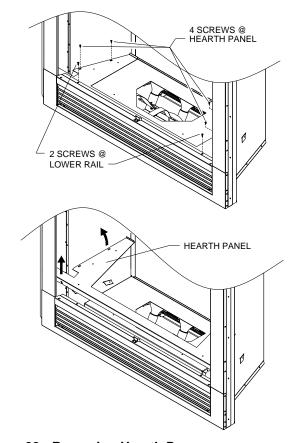


Figure 33 - Removing Hearth Pan

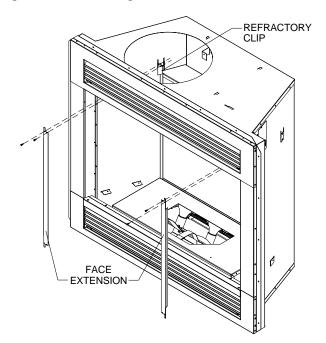


Figure 34 - Removing Face Extensions



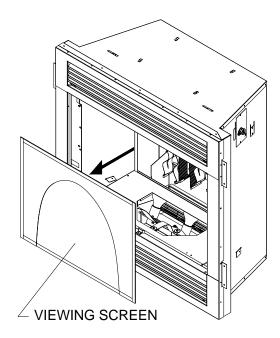


Figure 35 - Removing Viewing Screen

Servicing Fan Blower

If the fan blower requires service, it may be removed as follows:

- 1. Remove the 3 light bulbs from the lamp fixtures (see *Replacing Light Bulbs*, page **13**).
- 2. Disconnect the two 1/4" blade connectors at the motor unit.
- 3. Remove 4 hex nuts and washers located on the blower mount at the base of the cabinet. See **Figure 37**.
- 4. Lift entire fan assembly off its mounts and tilt it out of the unit.
- 5. Remove the 4 nut and bolt combinations from the fan housing.
- 6. Remount the new fan to the blower mount in reverse order.
- 7. Slide the blower assembly with spacers over the mounting lugs and replace the washer and nut at each lug. Do not over tighten.

Note: The wire connectors for the fan motor are non-polarized and may be connected to either of the 2 terminals for proper operation.

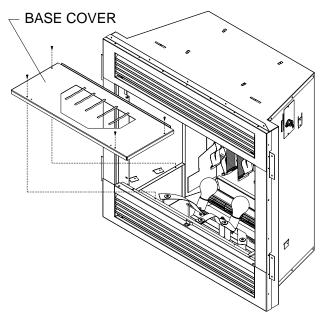


Figure 36 - Removing Base Cover

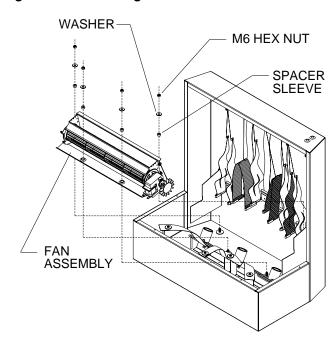


Figure 37 - Removing Fan Assembly

Servicing Flame Pennants

If the flame pennants should become tangled or detached they may be reattaching or replacing as follows:

- 1. Locate the affected flame pennant and slip the hem at the base of the flame pennant over the proper hanger bracket position. See **Figure 38** for proper location.
- 2. Pull the flame cord up to the proper hook location, use a slip knot to adjust the cord length and attach the cord to the hook. See **Figure 38** for proper cord length.
- 3. Tie another knot over the slip knot and trim away access cord.

Note: The flame pennant should not be twisted or tangled and should hang slightly loose to allow free movement. If the cord is too short or the pennant is torn you must obtain a replacement flame assembly, See *Replacement Parts*, page 19.

4. After connecting and adjusting the flame cords, soak each knot with a drop of white wood glue or clear nail polish to prevent them from unraveling.

Replacing Lamp Fixtures

Lamp fixtures may be replaced as follows:

- 1. Turn off all power to the appliance at the circuit breaker or fuse.
- 2. Locate any of 3 defective lamp fixtures and trace the wiring to the crimp connections. See **Figure 39**.
- 3. Remove the 2 crimp connectors in the harness and disconnect the **white** and **black** wires on the defective fixture. See *Wiring Diagram*, **Figure 28**, page **12** for proper locations.
- 4. Remove the 2 Phillips screws at the base of the defective fixture (see **Figure 39**).
- 5. Remove the old fixture and remount the new fixture with the 2 Phillips screws removed prior.
- 6. Twist the bare ends of the **white** and **black** wires to the corresponding wires in the main harness and secure them with the 2 crimp connectors provided.

Note: There should be no exposed bare wire at any connection. Wiring should be secured with wire ties, as short as possible and kept away from the fan blades. If additional parts are required, see *Replacement Parts*, page 19.

- 6. Replace each light bulb with the proper color, see *Replacing Light Bulbs*, page **13**.
- 7. Restore power and check the lamp circuit operation, before reassembling the imaging unit.
- 8. Reassemble the imager. See Accessing Imaging Unit, page 15.

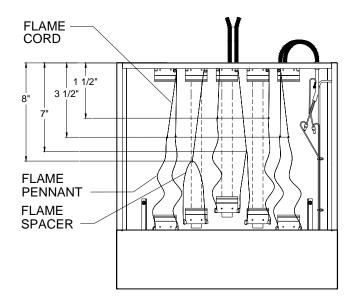


Figure 38 - Locating the Flame Pennants

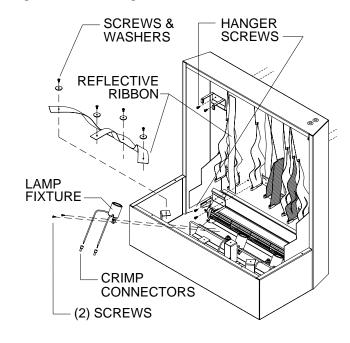


Figure 39 - Replacing Fixtures



Make sure the power is turned off at the supply prior to disassembling this unit.

IMPORTANT: Be sure to inspect the components and wiring for damage before connecting power to the unit. If any components are found damaged, contact an authorized dealer for original DESA replacement part(s) or call DESA at 1-866-872-6040 for referral.



Replacing Reflective Ribbons

If reflective ribbons become damaged or loose they may be replaced as follows:

- 1. Turn off all power to the appliance at the circuit breaker or fuse.
- 2. Locate defective ribbons; there are 3 strips mounted on the rear cabinet and 3 mounted in the base. See **Figure 39**, page **17**.
- 3. If the upper rear ribbons need replacing, remove the 4 Phillips screws holding the corresponding bottom and top hanger brackets. See **Figure 34**, page **17**.
- 4. Remove any loose or damaged ribbon material.
- 5. Cut an 18" strip of reflective ribbon and position the top end about an inch above the top bracket position. See **Figure 40**.

Note: The ribbon material should be applied with the reflective side up, should not be twisted or tangled and should hang slightly loose to allow free movement. If additional parts are required, see *Replacement Parts*, page 19.

- 6. Replace the top hanger bracket using 2 Phillips screws removed prior and tighten until the reflective ribbon is held in place.
- 7. Replace the bottom hanger bracket with the 2 remaining Phillips screws to secure the lower end of the reflective ribbon.
- 8. If replacing the reflective ribbons located in the base, remove the screws and washers at the damaged ends of the ribbon.
- 9 Cut a 9 inch long strip of ribbon and apply across each ribbon support bracket with the shiny side facing up. See **Figure 40**.
- 10. Secure the ribbon to the brackets by replacing each washer at the end of the ribbon and rethreading the screws through the ribbon into each hole located on the support brackets.
- 11.If replacing the top, reflective ribbons on the base cover, cut a 3 inch section of ribbon and split down the middle. Then with the shiny side up, attach with cellophane tape onto the rear edge of the base cover opening. See **Figure 40**.
- 12. Readjust the flame pennants (if removed). See *Servicing Flame Pennants*, page **17**.
- 13. Reassemble the imager. See *Accessing Imaging Unit*, page 15.
- 14. Replace log set and lava rock, See *Hearth Assembly*, page **6**.

Cleaning Viewing Screen

Clean the viewing screen with an alcohol based, non-abrasive, residue free cleaner (pre-moistened hand wipe are ideal). Do not use glass cleaners with ammonium, abrasive scrubs or degreaser solvents of any kind.

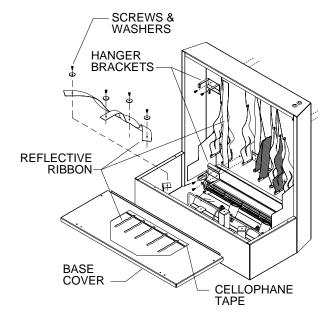


Figure 40 - Replacing Reflective Ribbons

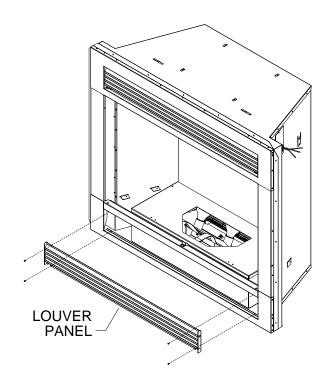


Figure 41 - Removing Lower Louver Panel



Further Accessing Imaging Unit For Replacement

The imaging unit can be removed from inside the firebox for servicing as follows:

- 1. Remove 4 Hex screws on the lower louver panel and detach the louver assembly from the front face. See **Figure 41**, page **18**.
- 2. Rotate the top edge of lower frame rail inward and lift upward until locking tabs detach from the front face (see **Figure 42**).
- 3. Slide the entire imaging forward and lift out through the front opening (see **Figure 43**).

Note: An additional 3 feet of harness is tucked behind the imager to permit removal without disconnecting any control wiring.

Note: If full replacement of the imager is necessary, the wiring harnesses must be disconnected and the new harnesses reconnected at the control panel. For proper connection, follow the wiring diagram show in **Figure 28**, on page **12**.

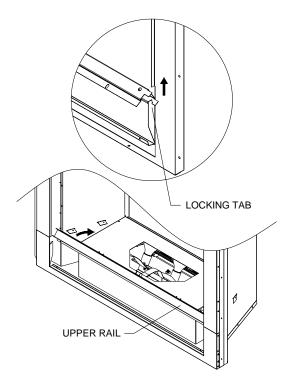


Figure 42 - Removing Lower Frame Rail

Further Technical Service

You may have further questions about installation, operation or troubleshooting. If so, contact DESA Technical Service Department at 1-866-672-6040. When calling, please have your model and serial numbers of your fireplace ready.

You can also visit DESA technical service's web site at www.desatech.com.

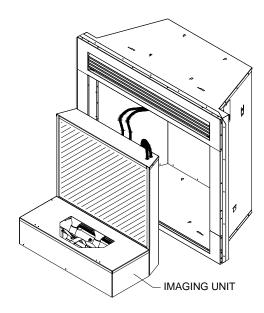


Figure 43 - Removing Imaging Unit

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA Technical Service Department at 1-866-672-6040.

When calling DESA, have ready:

- your name
- your address
- model and serial numbers of your fireplace
- how fireplace was malfunctioning
- type of accessories
- purchase date

PARTS NOT UNDER WARRANTY

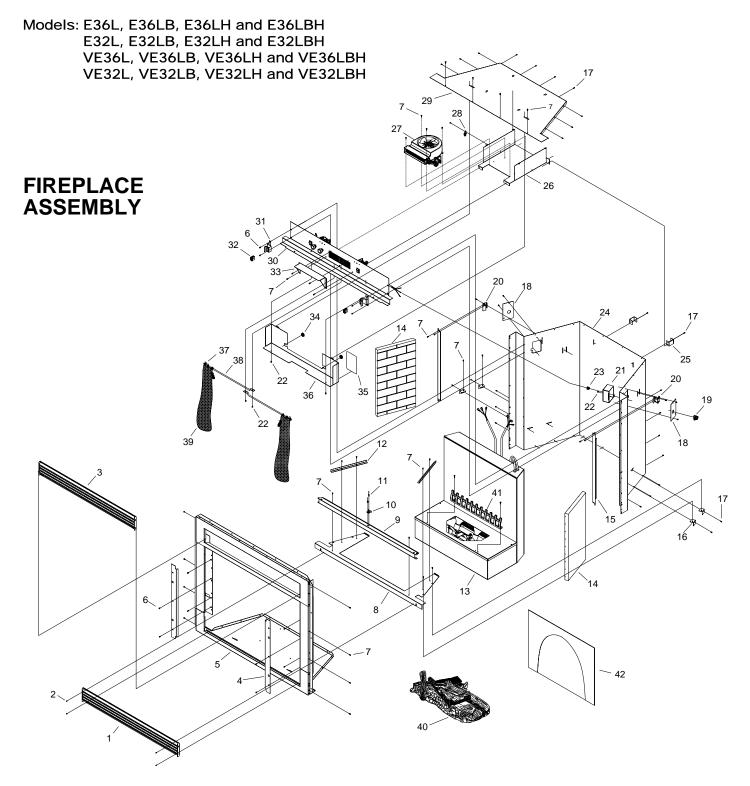
Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA Technical Service Department at 1-866-672-6040.

When calling DESA, have ready:

- your name
- your address



ILLUSTRATED PARTS BREAKDOWN





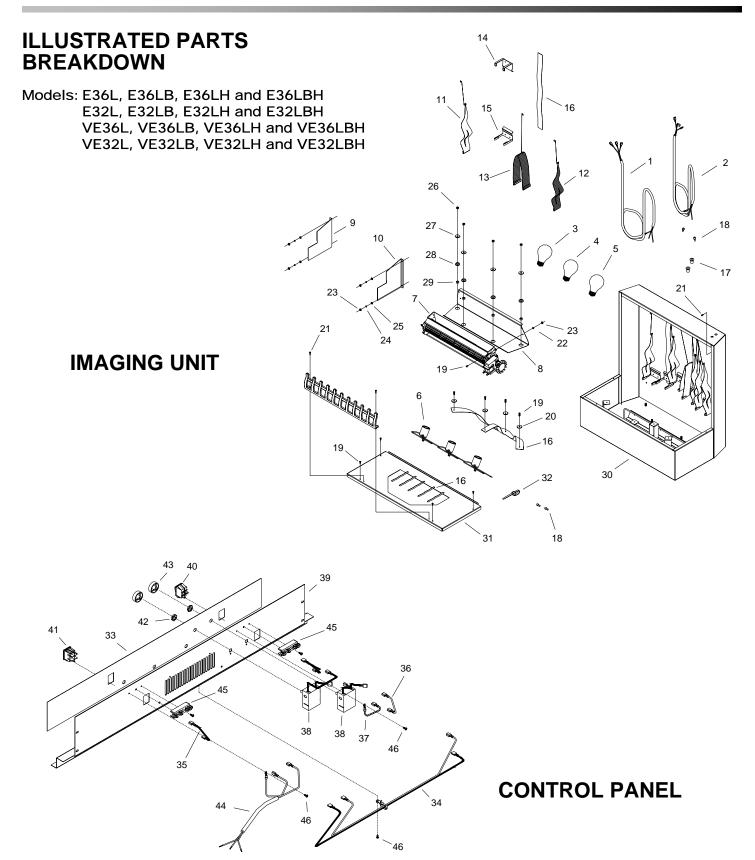
PARTS LIST

This list contains replacement parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 15 of this manual.

	PART NUMBER					
KEY	* E36LB	* E32LB	* VE36LB	* VE32LB		
NO.	** E36LBH	** E32LBH	** VE36LBH	** VE32LBH	DESCRIPTION	QTY.
1	111065-02	111065-04	111065-02	111065-04	Louver Assembly (Bottom)	1
2	11198	11198	11198	11198	Screw #8x3/8 Hex	4
3	111065-01	111065-03	111065-01	111065-03	Louver Assembly (Top)	1
4	110870-01	110870-01	110870-01	110870-01	Bracket Refractory	2
5	106704-04	108401-03	106704-04	108401-03	Face Weldment	1
6	11166	11166	11166	11166	Screw #10 x 1/2 Hex	16
7	11164	11164	11164	11164	Screw #8 x 1/2 Phillips	22
8	112078-01	112078-02	112078-01	112078-02	Hearth Pan	1
9	112076-01	112076-02	112076-01	112076-02	Lower Face Rail	1
10	20088	20088	20088	20088	Door Stop	1
11	11318	11318	11318	11318	Rivet Pop 1/8 x .375 Black	2
12	112138-01	112138-02	112138-01	112138-02	Bracket Hearth Pan (B models only)	2
13	112288-01	112288-02	112288-01	112288-02	Imager Fireplace Insert	1
14	112137-01	113662-01	112137-02	113662-02	Refractory Panel (B models only)	2
15	112414-01	112414-02	112414-01	112414-02	Face Extension	2
16	110445-01	110445-01	110445-01	110445-01	Bracket Hearth	6
17	11105	11105	11105	11105	Screw #10 x 1/2 Hex	34
18	110973-01	110973-01	110973-01	110973-01	Cover Junction Box	2
19	14123	14123	14123	14123	Bushing Strain Relief Universal	1
20	112075-01	112075-01	112075-01	112075-01	Retainer Refractory	2
21	110794-01	110794-01	110794-01	110794-01	Junction Box	1
22	11102	11102	11102	11102	Screw #8-32 x 3/8 Phillips	6
23	M11143-1	M11143-1	M11143-1	M11143-1	Bushing Strain Relief	1
24	110446-02	108405-02	110446-02	108405-02	Firebox Wrap	1
25	111064-01	111064-01	111064-01	111064-01	Bracket Heater Standoff	2
26	110439-01	110439-02	110439-01	110439-02	Mount Heater	1
27	** 111060-01	** 111060-01	** 111060-01	** 111060-01	Heater Assembly **(H models only)	1
28	11404	11404	11404	11404	Wire Tie Down	1
29	107941-03	108408-02	107941-03	108408-02	Top/Bottom Firebox	2
30	112302-01	112302-04	112302-01	112302-04	Control Panel Assembly **(H models only)	1
30	112302-02	112302-05	112302-02	112302-05	Control Panel Assembly *(Non- H models)	1
31	112783-01	112783-01	112783-01	112783-01	Bracket Magnet	2
32	17223	17223	17223	17223	Magnet Catch	2
33	112099-01	112099-01	112099-01	112099-01	Deflector Heat Shield	1
34	11439	11439	11439	11439	Bushing Electric 7/8"	2
35	111134-01	111134-01	111134-01	111134-01	Label Wiring Diagram	1
36	112305-01	112305-01	112305-01	112305-01	Control Cover	1
37	11418	11418	11418	11418	Nut Push On	2
38	106691-01	108701-01	106691-01	108701-01	Screen Rod	2
39	12105	108440-01	12105	108440-01	Screen Assembly	2
40	112748-01	112748-01	112748-01	112748-01	Logs, Ember Bed	1
41	112735-01	112735-01	112735-01	112735-01	Grate Front	1
42	112743-01	112743-02	112743-01	112743-02	Panel Viewing Screen	1
*43	25487	25487	25487	25487	Lava Rock 2.5# Bag	1

^{*} Items not shown





PARTS LIST

This list contains replacement parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 15 of this manual.

	PART NUMBER					
KEY	* E36LB	* E32LB	* VE36LB	* VE32LB		
NO.	** E36LBH	** E32LBH	** VE36LBH	** VE32LBH	DESCRIPTION	QTY.
1	112734-01	112734-01	112734-01	112734-01	Harness Flame Power	1
2	112734-02	112734-02	112734-02	112734-02	Harness Fan Power	1
3	112469-01	112469-01	112469-01	112469-01	Lamp Bulb (Red)	1
4	112469-02	112469-02	112469-02	112469-02	Lamp Bulb (Yellow)	1
5	112469-03	112469-03	112469-03	112469-03	Lamp Bulb (Orange)	1
6	112725-01	112725-01	112725-01	112725-01	Socket Lamp	3
7	112722-01	112722-01	112722-01	112722-01	Fan Crossflow Blower	1
8	112736-01	112736-01	112736-01	112736-01	Panel Blower Mount	1
9	112737-01	112737-01	112737-01	112737-01	Panel Cutoff Left	1
10	112737-02	112737-02	112737-02	112737-02	Panel Cutoff Right	1
11	112738-01	112738-01	112738-01	112738-01	Flame Pennant Assembly White	5
12	112378-02	112378-02	112378-02	112378-02	Flame Pennant Assembly Black	1
13	114264-01	114264-01	114264-01	114264-01	Flame Spacer Assembly	2
14	112739-01	112739-01	112739-01	112739-01	Bracket Flame Hook	5
15	112739-02	112739-02	112739-02	112739-02	Bracket Flame Hanger	5
16	112740-01	112740-01	112740-01	112740-01	Tape Reflective	7 ft.
17	112741-01	112741-01	112741-01	112741-01	Bushing Electrical 1/2"	2
18	112742-01	112742-01	112742-01	112742-01	Connector Crimp	6
19	114265-01	114265-01	114265-01	114265-01	Screw M4- 8mm Phillips Pan	40
20	114279-01	114279-01	114279-01	114279-01	Washer M4- 22.5mm Flat	4
21	114266-01	114266-01	114266-01	114266-01	Screw M4- 12mm Phillips Pan	3
22	114267-01	114267-01	114267-01	114267-01	Washer M4- 9mm Flat	4
23	114268-01	114268-01	114268-01	114268-01	Nut M4- 7mm Hex	8
24	114269-01	114269-01	114269-01	114269-01	Washer M4- 7.6mm Spring	4
25	114270-01	114270-01	114270-01	114270-01	Washer M5- 10mm Flat	4
26	114271-01	114271-01	114271-01	114271-01	Nut M6- 10mm Hex	4
27	114272-01	114272-01	114272-01	114272-01	Washer, M6- 18mm Large Flat	4
28	114273-01	114273-01	114273-01	114273-01	Grommet 12mm x 15mm SBR	4
29	114274-01	114274-01	114274-01	114274-01	Spacer M6- 12mm x 5.5mm Teflon	4
30	112744-01	112744-01	112744-01	112744-01	Cabinet Base Weldment	1
31	112745-01	112745-01	112745-01	112745-01	Cover Base Weldment	1
32	114275-01	114275-01	114275-01	114275-01	Tie, Wire 4"	14
33	111066-01	111066-01	111066-01	111066-01	Decal Control Panel	1
34	111067-02	111067-02	111067-02	111067-02	Harness Control Circuit	1
35	111059-01	111059-01	111059-01	111059-01	Harness Wire 4" Black	1
36	111059-02	111059-02	111059-02	111059-02	Harness Wire 4" White	1
37	111059-03	111059-03	111059-03	111059-03	Harness Wire 4" Green	1
38	111058-01	111058-01	111058-01	111058-01	Flame Control	2
39	110799-01	110799-01	110799-01	110799-01	Panel Control	1 ** 1
40	108394-01	108394-01	108394-01	108394-01	Switch On/Off **(H Models - 2 Qty)	* 1
41	113042-01	113042-01	113042-01 103651-01	113042-01	Plug Blank Hole *(Non-H Models)	
42	103651-01	103651-01		103651-01	Nut Lock Knob Control	2
43	103650-01	103650-01	103650-01	103650-01	Harness Power Wire	2
44 45	103646-01 099125-13	103646-01 099125-13	103646-01 099125-13	106646-01 099125-13	Terminal Block	1 2
46	11102	11102	11102	11102	Screw #8-32 x 3/8 Phillips	5
40	11102	11102	11102	11102	Sciew #0-32 x 3/0 Fillips	

ACCESSORIES

Purchase these firebox accessories from your local dealer. If they can not supply these accessories, call DESA Sales Department at 1-866-672-6040 for information. You can also write to the address listed on the back page of this manual.

PERIMETER TRIM KITS

PT36 – 36" Perimeter Trim - Black

PT36B – 36" Perimeter Trim - Brushed Brass

PT36PB – 36" Perimeter Trim - Polished Brass **PT36P** – 36" Perimeter Trim - Platinum

PT32 – 32" Perimeter Trim - Black

PT32B – 32" Perimeter Trim - Brushed Brass

PT32PB – 32" Perimeter Trim - Polished Brass

PT32P – 32" Perimeter Trim - Platinum

BI-FOLD GLASS DOOR KITS

BD36 - 36" Bi-Fold Glass Doors - Black

BD36B – 36" Bi-Fold Glass Doors - Brushed Brass

BD36PB – 36" Bi-Fold Glass Doors - Polished Brass

BD36P – 36" Bi-Fold Glass Doors - Platinum

BD32 – 32" Bi-Fold Glass Doors - Black

BD32B – 32" Bi-Fold Glass Doors - Brushed Brass

BD32PB – 32" Bi-Fold Glass Doors - Polished Brass

BD32P – 32" Bi-Fold Glass Doors - Platinum

FIXED GLASS DOOR KITS

FD36 – 36" Fixed Glass Door - Black

FD36B - 36" Fixed Glass Door - Brushed Brass

FD36PB – 36" Fixed Glass Door - Polished Brass

FD36P – 36" Fixed Glass Door - Platinum

FD32 – 32" Fixed Glass Door - Black

FD32B – 32" Fixed Glass Door - Brushed Brass

FD32PB – 32" Fixed Glass Door - Polished Brass

FD32P - 32" Fixed Glass Door - Platinum

REFRACTORY LINER KITS

BL36E – Textured Brick Liner Kit - Red

BL36EW – Textured Brick Liner Kit - White

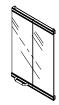
BL32E – Textured Brick Liner Kit - Red

BL32EW – Textured Brick Liner Kit - White



Perimeter Trim

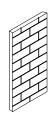


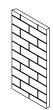


Bi-Fold Glass Doors

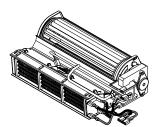


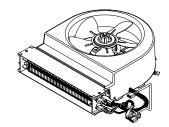
Fixed Glass Door





Optional Brick Liner





Optional Electric Heater

ELECTRIC BLOWER/HEATER KIT

BHKE – 1100 Watt Electric Heater Kit – Optional

INSTALLATION NOTES

WARRANTY INFORMATION

Model ______ Serial No. _____ Date Purchased ______

Always specify model and serial numbers when communicating with the factory.

We reserve the right to amend these specifications at any time without nitice. The only warranty applicable is our standard written warranty. We make no other warraty, expressed or implied.

LIMITED 1 YEAR HEATER WARRANTY

DESA warrants this product to be free from defects in materials and components for one (1) year from the date of first purchase, provided that the product has been properly installed, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty the Bill of Sale or cancelled check must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers the cost of part(s) required to restore this heater to proper operating condition and an allowance for labor when provided by a DESA Authorized Service Center. Warranty part(s) MUST be obtained through authorized dealers of this product and/or DESA who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.

TO THE FULL EXTENT ALLOWED BY THE LAW OF THE JURISDICTION THAT GOVERNS THE SALE OF THE PRODUCT; THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO ONE (1) YEAR ON ALL COMPONENTS FROM THE DATE OF FIRST PURCHASE; AND DESA'S LIABILITY IS HEREBY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT AND DESA SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation on implied warranties, or exclusion or limitation on damages may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For information about this warranty write:



2701 Industrial Drive P.O. Box 90004 Bowling Green, KY 42102-9004

www.desatech.com

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