

TECHNICAL DATA SHEET KIT #97-75450 Tucson Non-Catalytic Vent Free Model 8745 Conversion to a Catalytic Vent Free

TOOLS REQUIRED

Phillips Screwdriver 1/8" Allen wrench 7/16" Wrench For NG units you will need the following: 1/2" Deep Socket or Wrench 5-32 Allen Wrench 3" Socket Extension (optional)

KIT COMPONENTS

1-Catalyst
1- Glass w/ taped edges
1- NG #45 orifice (FOR NG UNITS ONLY)
3/8" Rope gasket
1. Communication sticker

1- Conversion sticker Instructions

!!WARNING!!

This conversion kit must be installed by a qualified gas service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury, or loss of life. The qualified service agency performing this work assumes responsibility for the proper conversion of this appliance with this kit.

Once the catalyst is installed, periodic cleaning will be necessary. To clean the catalyst, mix a 50-50 solution of vinegar and distilled water. Remove from the unit and soak the catalyst in this solution for 5 minutes. Rinse with distilled water, and reinstall.

CAUTION: (FOR NG CATALYST CONVERSIONS the gas supply must be shut off prior to making this conversion.)



1) **REMOVING THE COVER PLATE;** If the side stones are in place, you will need to remove them. To do this, remove the top stones and top grill. Slide the stone retainer plates (side heat shields) up, and out of the stove. Next remove the stones and set aside in a safe location.

Locate the top heat shield. Using a 7/16" wrench loosen the two nuts on top of the threaded rods that hold the top and heat shield down. Once the nuts have been loosened, unthread the rods from the bottom. Once the rods are loose, pull them out and set them aside. (*Keep the top on the unit, if the top is removed the sides will fall*) Slide the heat shield to the rear of the unit. On top of the firebox, locate the cover plate, which is screwed to the firebox. Using a Phillips screwdriver remove two of the three screws that hold the cover plate down. (Keep these screws, as you will need them to attach the catalyst to the firebox) Open the front of the stove. Use the 1/8" Allen wrench to remove the screw that holds the front door closed. Locate the remaining screw that is holding the cover plate down. Remove the screw. The cover plate should now loose, and can be removed from the stove.

2) **MOUNTING THE CATALYST TO THE UNIT;** The catalyst will fit over the same space (resting on top of the firebox) that the cover plate occupied, using the same screws to attach to the firebox. Once the catalyst is in place, use the two screws mentioned earlier to mount the catalyst to the firebox top. Now that the catalyst is in place, replace the top heat shield and rods. To do this, place the heat shield in place, and slide the threaded rods in. Thread the rods into the bottom hand tight. Reinstall the stones and retainer plates. Use the 7/16" wrench to tighten the nuts another ¹/₄ turn.

3) **REMOVING THE SCREEN FROM THE FRONT DOOR;** (To ease in installation, the door can be lifted off the hinges and placed face up on a soft surface) Using a Phillips screwdriver, remove the screws from the inside of the door frame. (Be careful, as the last screws are removed, the screen and cast retention frame will be loose and may fall)(Keep the screws, as they will be used to reattach the glass to the door) Once all screws have been removed, the screen and frame can be pulled off the door. Once loose, separate the screen from the cast retention frame. The retention frame will be used to reattach the glass to the door.

4) **MOUNTING THE GLASS TO THE DOOR;** Locate the glass with the tape gasket around the edge. Center the glass in the door, it has a pocket specifically sized for the glass. Place the frame in the door. Align the holes in the frame to the holes in the door. Using a Phillips head screwdriver and the screws previously mentioned mount the frame to the door. The screws only need to be hand tightened, as over tightening may strip or break the screws.

5) **FILL OUT AND ATTACH THE LABEL TO THE UNIT;** Properly fill in the information on the conversion label provided. Peel the foil from the protective backing on the label and neatly place the label on the bottom left corner of the rear heat shield panel on the back of the unit.



PROCEDURE FOR NG TUCSON:

1) FOLLOW THE SAME PROCEDURE AS THE LP STOVE and then proceed to step 2 below

2) **REPLACE THE #44 BURNER ORIFICE WITH THE #45 PROVIDED IN THE KIT;** Remove the log set and burner tube and place the pieces in a safe place. Using a 1/2" deep socket with a 3" extension (or 1/2" wrench), remove the NG gas orifice (#44), located on the inside of the back of the firebox. Install the NG orifice (#45). (Discard the #44 orifice) To prevent damage to the main gas line, hold the elbow that the orifice is attached to when removing and installing the orifices.

3) **REPLACE THE BURNER TUBE AND LOGS;** Place the burner tube back in the unit as it was prior to starting the conversion. Place the logs and embers back in the unit. Refer to the owner's manual for proper placement of these parts. Precise location is important to both the look and operation of the stove. Shut the door using a Phillips screwdriver.

Note: Refer to the owner's manual for the:

- a. Details on adjustment for the proper pilot and main burner flame appearance.
- b. Instructions for checking out the normal operating sequence of the ignition system.
- c. Location on the valve to check manifold pressure.

UPDATED PARTS LIST E THE 97-75450 CATAL VST CONVERSION KIT IS INSTALL

Part #	Description		
2710-115	bottom	Part #	Description
2710-220	ash lip	7200-506	thermostat
2710-321	right side	7000-200	3-way on/off switch
2710-326	left side	5710-121	valve bracket support
2710-420	exhaust baffle	5710-128	valve door
2710-486	heat exchanger	5710-131	ODS pilot bracket
2710-511	front door	5710-152	burner tube holder
5710-170	door hinge with bracket	5710-160	log set holder
5710-180	door latch bracket	5710-470	stone clips
2710-560	glass ret frame	5710-511	firebox / air plenum
2710-581	front grill	5710-515	exhaust baffle holder
2710-810	top grill	5710-530	cat. heat shield
2710-818	top	5710-597	back shroud
2710-655	handle, door	7200-120	burner orifice #55
1741-350	top side stones	7200-145	burner orifice #45
1741-351	side stones	7211-005	³ ⁄4" Dia. gas line
1741-352	top center stone	7211-227	burner tube
7211-554	rear log	7211-301	gas valve sit (NG)
7211-555	middle log	7211-305	gas valve sit (LP)
7211-556	front log	7211-324	ODS pilot (NG)
7211-557	top log	7211-327	ODS pilot (LP)
7211-558	charcoal ember (2 oz.)	7210-103	piezo igniter
5320-070	ember screen	3030-027	glass 13-3/16" x 11¼" x 5 mm
5710-119	light shield	3010-157	catalyst combustion assembly
5710-120	back light shield	3160-080	³ ⁄ ₄ " tape (glass)
7000-015	thermostat wire	3110-057	low density door rope