



Technical Data Sheet

Tucson 8702 DX Model Upgrade Conversion Kit

Kit #97-68000: For Existing LP Fuel Installations

Kit # 97-69000: For Existing NG Fuel Installations

Use these instructions for both NG and LP DX upgrade installations.

Publish Date: October 19, 2009

KIT COMPONENTS:

5710-227	DX Modesty Panel
7000-102	AAA Batteries (3x)
7000-100	AA Batteries (4x)
7000-394	Remote Receiver
7000-393	Remote Transmitter
7211-103	GTMS Wire Harness
97-57100	Blower assembly
7211-344	LP Stepper Regulator (LP Kit only)
7211-345	NG Stepper Regulator (NG Kit only)
3300-549	Pilot Label

TOOLS REQUIRED:

Phillips Screwdriver
T2 Torx or Flat-head Screwdriver
5/16" Wrench

🔥 **CAUTION:** TURN OFF THE GAS SUPPLY TO THE STOVE BEFORE MAKING THIS CONVERSION. DISCONNECT ANY ELECTRICAL SOURCE TO YOUR STOVE BEFORE MAKING THIS CONVERSION.

🔥 **IMPORTANT:** This kit and these instructions apply to converting the Tucson 8702 ST model only. **DO NOT attempt this conversion on any other Tucson model.**

🔥 **WARNING:** THIS MODEL 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.

🔥 **ATTENTION:** CET ÉQUIPEMENT DE CONVERSION SERA INTALLÉ PAR UNE AGENCE QUALIFIÉE DE SERVICE CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT ET TOUTES EXIGENCES ET CODES APPLICABLES DE L'AUTORISÉS AVOIR LA JURIDICITION. SI L'INFORMATION DANS CETTE INSTRUCTION N'EST PAS SUIVIE EXACTMENT, UN FEU, EXPLOSION OU PRODUCTION DE PROTOXYDE DE CARBONE PEUT RÉVALTER LE DOMMAGES CAUSER DE PROPRIÉTÉ, PERTE OU BLESSURE PERSONELLE DE VIE. L'AGENCE QUALIFIÉE DE SERVICE EST ESPONSABLE DE L'INSTALLATION PROPRE DE CET ÉQUIPEMENT. L'INSTALLATION N'EST PAS PROPRE ET COMPLÈTE JUSQU'À OPÉRATION DE L'APPAREIL CONVERTI EST CHÉQUE SUIVANT LES CRITÈRES ÉTABLIS DANS LES INSTRUCTIONS DE PROPRIÉTAIRE PROVISIONNÉES AVEC L'ÉQUIPEMENT.

- 🔥 This is not a fuel conversion kit. This kit does not convert your stove to the desired gas. You must install the upgrade kit required for the fuel gas your current Tucson 8702 ST is configured to use.
- 🔥 Your Tucson 8702 ST shipped from the factory equipped to burn Natural Gas and included a fuel conversion kit for LP. If you do not have this kit, and need to convert the stove, you must purchase the correct kit required for conversion to LP.

PROCEDURE:

- 1) **Remove the Modesty Panel from the stove.** Use a Phillips screwdriver to remove the 2 screws that mount the panel to the stove. Save the screws as they are used to mount the new panel.(Refer to Figure 1)
- 2) Using a 5/16" wrench, remove the nut on the IPI/CPI switch and pull the switch through the hole in the panel.
- 3) Follow the wires from the ON/OFF/T-STAT switch back to their connections. Disconnect the wires where they connect to the green and white wires on the wire harness. The yellow, purple and black wires stay connected to the switch.
- 4) The panel is now free to pull away from the stove, and set aside.



Figure 1 Modesty Panel Removal

- 5) Locate the Wiring Harness that shipped with this kit. Connect the white wire labeled (TPTH) to the white wire that was connected to the ON/OFF/T'STAT switch. Connect the green wire labeled (TH) to the green wire that was connected to the ON/OFF/T'STAT wire.
- 6) Locate the Remote receiver mounted to the new Modesty Panel. Connect the wire labeled (Receiver) to the back of the receiver. Connect the wire labeled (DFC Supply) to the wire under the stove labeled (DC Supply).
- 7) **Prepare the DX modesty Panel for installation.** Ensure the adhesive backed Pilot Label is affixed to the panel as shown above. Pass the IPI/CPI switch through the hole in the new panel and the pilot label. Notice the switch has a small nub that mates with a slot on the modesty panel. This is to ensure proper orientation of the switch. Replace the nut on the switch to lock it in place. Place the batteries in the remote control receiver and transmitter.
- 8) **Convert the Manual Control to the Stepper Motor Control.** Locate, and then use the T2 Torx or Flat-tip screwdriver to remove the 2 screws that mount the Manual regulator to the valve. Pull the rubber diaphragm off the valve. (Refer to Figure 2)

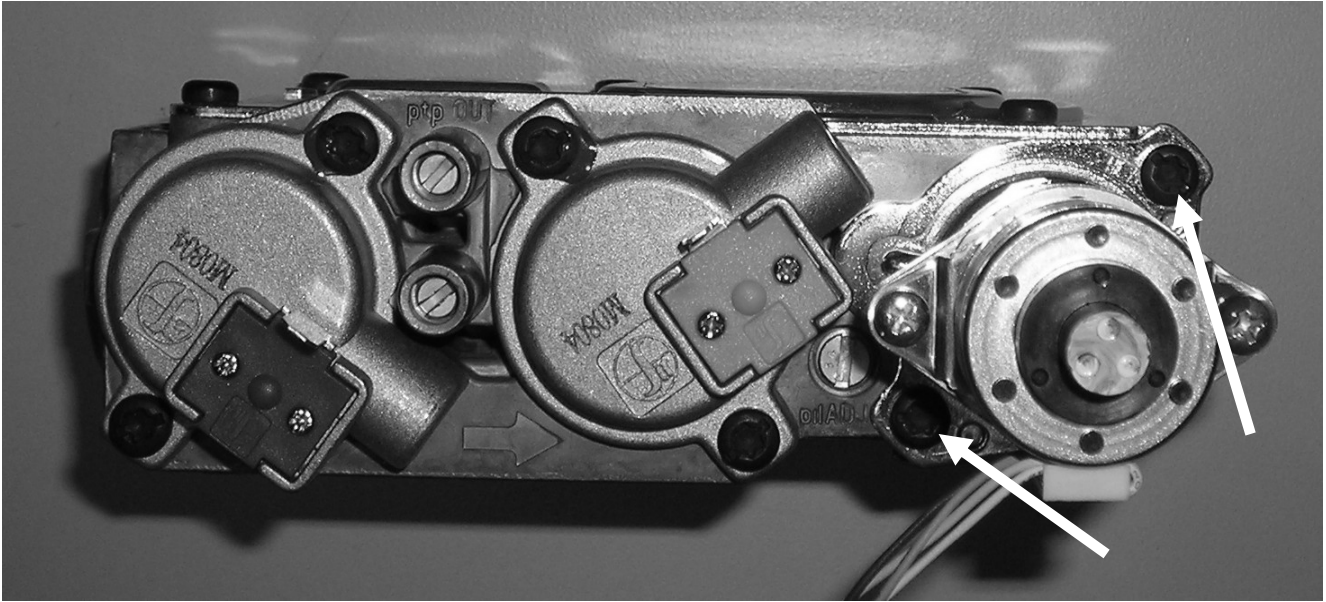


Figure 2: Converting the Regulator

- 9) Locate and place the Stepper Motor Regulator in position. Use the T2 Torx or Flat-tip Screwdriver, and the screws provided, to mount the new regulator in place.
- 10) Connect the wire labeled (motor) to the leads on the regulator. (See figure 3)



Figure 3: Stepper Motor Wire

- 11) Mount the DX Modesty Panel using the two screws that removed earlier.

- 12) **Mount the Blower Assembly to the Stove.** Locate the two 8-32 Phillips screws (see Figure 4) on the bottom of the stove that will attach the hanger mount to the stove bottom. Loosen, but do not remove these screws. Properly position the hanger mount as shown in Figure 4 and secure it by tightening the screws.

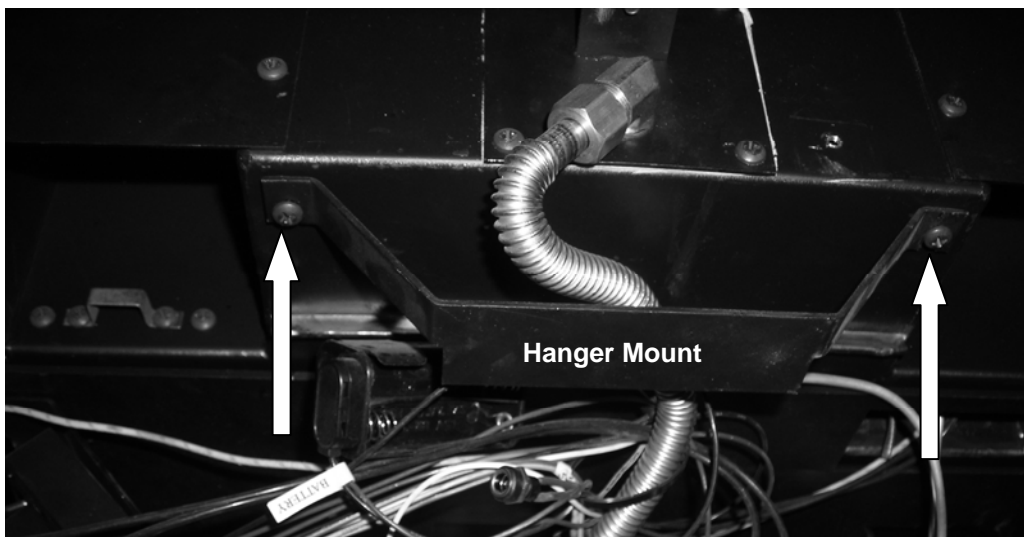


Figure 4 Blower Hanger Mount

- 13) **Installation of the L-Bracket:** Attach the L- Bracket as shown in Figure #5. Mount the bracket to the blower using the screw hole closest to you. Do not tighten the screw as some adjustment is usually necessary when attaching the blower assembly to the stove.

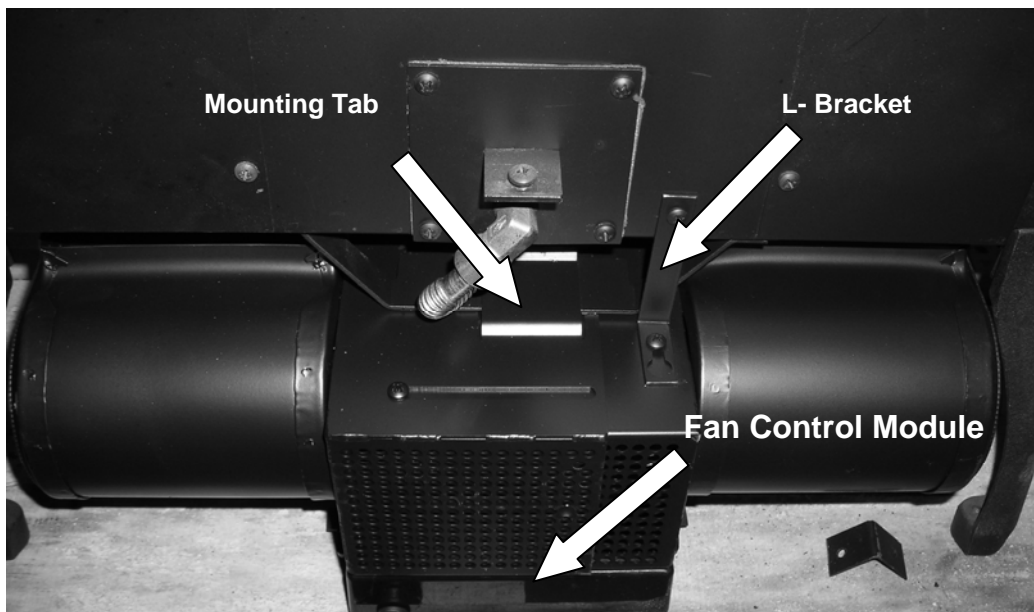



Figure 5 Mounting the Blower Assembly

- 14) **Position the blower assembly:** Place the blower assembly behind the stove as shown in Figure #5. Route the flexible gas line out of the way as shown to allow the blower assembly to sit in the proper position. *Secure the blower assembly to the stove's bottom:* Slide the tab located on the top of the blower assembly over the hanger mount and lock into place by fastening the L-Bracket to the stove using the screw that was removed from the stove. (See photo #5). Ensure the gas line is not kinked and is not touching the Hanger Mount or the Mounting Tab.

- 15) The Fan Control Module comes assembled under the blower. Connect the wire labeled (FCM-COM) to the port on the Fan Control Module labeled COM.
- 16) Connect the Blower Unit power supply cord into the outlet on the Fan Control Module labeled **Fan**. Plug the Fan Control Module power cord into a 120 volt wall outlet. Switch the Fan Control Module switch to ON.
- 17) **Initializing the Remote Control:** When you initially install or replace the batteries, you must synchronize communication between the Receiver and the Remote Control transmitter.
 - i. Place the slider switch in the REMOTE position.
 - ii. Insert the end of a paper clip into the hole marked PRG on the Receiver cover. The Receiver will beep three times to indicate it is ready to synchronize with the Remote Control.
 - iii. Install three AAA batteries in the Remote Control, and push the ON button. The Receiver will beep four times to indicate the Remote's command is accepted and is set to the particular code of that Remote. The system is now initialized.

 **Note:** The wire lead from wiring harness labeled (Splitflow) does not apply to this model and is not used.

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.