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You can read the recommendations in the user guide, the technical guide or the installation guide for ESTATE TGS325MT. You'll find the answers to all your questions on the ESTATE TGS325MT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ESTATE TGS325MT
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INSTALLATION INSTRUCTIONS 30" (76 CM) FREESTANDING GAS RANGES

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RANGE SAFETY

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.
This symbol alerts you to potential hazards that can kill or hurt you and others.
All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING."
These words mean:

DANGER

You can be killed or seriously injured if you don't immediately follow instructions.

WARNING

You can be killed or seriously injured if you don't follow instructions.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.



WARNING

Tip Over Hazard

A child or adult can tip the range and be killed.
Connect anti-tip bracket to rear range foot.
Reconnect the anti-tip bracket, if the range is moved.
Failure to follow these instructions can result in death or serious burns to children and adults.

IMPORTANT:
Installer: Leave installation instructions with the homeowner.
Homeowner: Keep installation instructions for future reference.
Save installation instructions for local electrical inspector's use.

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Manual abstract:

This is the safety alert symbol. Connect anti-tip bracket to rear range foot. Reconnect the anti-tip bracket, if the range is moved. Failure to follow these instructions can result in death or serious burns to children and adults. **IMPORTANT:** Installer: Leave installation instructions with the homeowner. Homeowner: Keep installation instructions for future reference. Save installation instructions for local electrical inspector's use. 9758657

WARNING: For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, or to prevent property damage, personal injury, or death. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. **WHAT TO DO IF**

YOU SMELL GAS: · Do not try to light any appliance.

· Do not touch any electrical switch; do not use any phone in your building. · Clear the room, building, or area of all occupants. Follow the gas supplier's instructions. If using a ball valve, it shall be a T-handle type. Read and follow the safety instructions provided with any tools listed here.

Parts supplied Check that all parts are included. Tools needed s s s s s s s s s s s s s s s s Tape measure Flat-blade screwdriver Phillips screwdriver Level Hand or electric drill Hammer Channel lock pliers Pipe wrench 1/2" combination wrench 3/4" drive ratchet 3/8" nut driver 1/4" (3.2 mm) drill bit (for wood floors) Marker or pencil Masking tape Pipe-joint compound resistant to LP gas 3/8" (4.8 mm) carbide-tipped masonry drill bit (for concrete/ceramic floors)

Noncorrosive leak-detection solution s B s C A. Anti-tip bracket B.

Plastic anchors (2) C. #10 x 1/2" screws (2) s For LP/Natural Gas Conversions s 1/2" combination wrench s s 1/2" combination wrench 1/2" nut driver Quadrex or Phillips screwdriver Brackets must be securely mounted to subfloor. Thickness of flooring may require longer screws to anchor bracket to subfloor. Longer screws are available from your local hardware store. Parts needed Check local codes and consult gas supplier. Check existing gas supply and electrical supply. See "Electrical Requirements" and "Gas Supply Requirements" sections. 2 Location Requirements **IMPORTANT:** Observe all governing codes and ordinances. Do not obstruct flow of combustion and ventilation air. s It is the installer's responsibility to comply with installation clearances specified on the model/serial rating plate.

The model/serial rating plate is located on the oven frame behind the storage drawer panel. s Product Dimensions The range should be located for convenient use in the kitchen. Recessed installations must provide complete enclosure of the sides and rear of the range. To eliminate the risk of burns or fire by reaching over heated surface units, cabinet storage space located above the surface units should be avoided. If cabinet storage is to be provided, the risk can be reduced by installing a range hood that projects horizontally a minimum of 5" (12.7 cm) beyond the bottom of the cabinets. All openings in the wall or floor where range is to be installed must be sealed. Do not seal the range to the side cabinets. Cabinet opening dimensions that are shown must be used. Given dimensions are minimum clearances.

The floor anti-tip bracket must be installed. To install the anti-tip bracket shipped with the range, see "Install Anti-Tip Bracket" section. Grounded electrical supply is required. See "Electrical Requirements" section. Proper gas supply connection must be available.

See "Gas Supply Requirements" section. Contact a qualified floor covering installer to check that the floor covering can withstand at least 200°F (93°C). Use an insulated pad or 1/4" (0.64 cm) plywood under range if installing range over carpeting. s s A s B C s s s E D s s **IMPORTANT:** Some cabinet and building materials are not designed to withstand the heat produced by the oven for baking and self-cleaning.

Check with your builder or cabinet supplier to make sure that the materials used will not discolor, delaminate or sustain other damage. A. 27 1/2" (68.9 cm) depth with handle B. 36" (91.4 cm) cooktop height C. 46" (119.1 cm) overall height D. 29" (75.9 cm) width E.

25" (63.5 cm) Mobile Home - Additional Installation Requirements The installation of this range must conform to the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 (formerly the Federal Standard for Mobile Home Construction and Safety, Title 24, HUD Part 280). When such standard is not applicable, use the Standard for Manufactured Home Installations, ANSI A225.1/NFPA 501A or with local codes. Mobile home installations require: s When this range is installed in a mobile home, it must be secured to the floor during transit. Any method of securing the range is adequate as long as it conforms to the standards listed above. 3 Installation Clearances Cabinet opening dimensions shown are for 25" (64 cm) countertop depth, 24" (61 cm), base cabinet depth and 36" (91.4 cm) countertop height. If the cabinet depth is greater than 24" (61 cm) oven frame must extend beyond cabinet fronts by 1/2" (13 mm) minimum. Electrical Requirements **WARNING** B C D Electrical Shock Hazard Plug into a grounded 3 prong outlet.

Do not remove ground prong. A E Do not use an adapter. Do not use an extension cord. Failure to follow these instructions can result in death, fire, or electrical shock. K G G H F I J I A.

18" (45.7 cm) upper side cabinet to countertop B. 13" (33 cm) max. upper cabinet depth C. 30" (76.

2 cm) min. opening width D. For minimum clearance to top of cooktop, see NOTE* E. 30 1/2" (76.5 cm) min. opening width F. This shaded area recommended for installation of rigid gas pipe G. 8" (20.3 cm) H. 17" (43.

2 cm) I. 4 1/2" (11.4 cm) J. 2" (5.1 cm) K. 2" (5.0 cm) min. clearance from both sides of range to side wall or other combustible material. **IMPORTANT:** The range must be electrically grounded in accordance with local codes and ordinances, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 or Canadian Electrical Code, CSA C22.1 This range is equipped with an electronic ignition system that will not operate if plugged into an outlet that is not properly polarized.

If codes permit and a separate ground wire is used, it is recommended that a qualified electrical installer determine that the ground path is adequate. A copy of the above code standards can be obtained from: National Fire Protection Association One Batterymarch Park, Quincy, MA 02269. CSA International 8501 East Pleasant Valley Road Cleveland, OH 44131-5575 s A 120 volt, 60 Hz., AC only, 15-amp fused, electrical circuit is required.



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A time-delay fuse or circuit breaker is also recommended.

It is recommended that a separate circuit serving only this range be provided. s Electronic ignition systems operate within wide voltage limits, but proper grounding and polarity are necessary. Check that the outlet provides 120-volt power and is correctly grounded. The wiring diagram is located on the back of the range in a clear plastic bag. NOTE: The metal chassis of the range must be grounded in order for the control panel to work.

If the metal chassis of the range is not grounded, no keypads will operate. Check with a qualified electrician if you are in doubt as to whether the metal chassis of the range is grounded. s *NOTE: 24" (61 cm) minimum when bottom of wood or metal cabinet is protected by not less than 1/4" (0.64 cm) flame retardant millboard covered with not less than No. 28 MSG sheet steel, 0.015" (0.4 mm) stainless steel, 0.024" (0.6 mm) aluminum or 0.020" (0.

5 mm) copper. 30" (76.2 cm) minimum clearance between the top of the cooking platform and the bottom of an unprotected wood or metal cabinet. 4 Gas Supply Requirements Flexible metal appliance connector: WARNING s If local codes permit, a new C.S.A. design-certified, 4 - 5 ft (122 - 152.4 cm) long, 1/2" (1.3 cm) or 3/4" (1.9 cm) I.

D., flexible metal appliance connector may be used for connecting range to the gas supply line. Explosion Hazard Use a new CSA International approved gas supply line. Install a shut-off valve. Securely tighten all gas connections.

If connected to LP, have a qualified person make sure gas pressure does not exceed 14" (36 cm) water column. @@Failure to do so can result in death, explosion, or fire. Observe all governing codes and ordinances. IMPORTANT: This installation must conform with all local codes and ordinances. @@@@3. Pull cardboard bottom firmly to remove. 4. Use an adjustable wrench to loosen the leveling legs. 5. Place cardboard or hardboard in front of range. @@1. @@2. @@3. Tape template into place. 4.

@@5. @@@@Connect anti-tip bracket to rear range foot. Reconnect the anti-tip bracket, if the range is moved. @@Remove template from floor. 6. Tap plastic anchors into holes with a hammer. 6 7. Align anti-tip bracket holes with holes in floor. @@@@Any method of securing the range is adequate as long as it conforms to the standards in the "Location Requirements" section. Depending on the thickness of your flooring, longer screws may be necessary to anchor the bracket to the subfloor.

Longer screws are available from your local hardware store. 8. Move range close to opening. Remove shipping base, cardboard or hardboard from under range. 9.

Connect power supply cord as described in the "Electrical Connection" section. 10. Move range into final position making sure rear leveling leg slides into anti-tip bracket. Level Range Place rack in oven. Place level on rack, first side to side; then front to back.

11. Continue installing your range using the following the installation instructions. If range is not l flame. A A B B A. Low flame B. @@@@Mirror B. Flame spreader C. Flame reflection D. 2 screws A B A. Control knob stem B.

Screwdriver 4. Push the BAKE pad. 5. Press the START pad. @@Electronic igniters are used to light the bake and broil burners. @@Remove the control knob. 2. Hold the knob stem with a pair of pliers. @@3. Replace the control knob.

4. @@@@2. Check the oven bake burner for proper flame. @@No yellow tips, blowing or lifting of flame should occur. 3.

@@@@Tighten locking screw. Check Operation of Oven Bake Burner 1. Remove the oven rack. 2. @@@@Remove from oven and place the cover on a protected surface.

A B A A. Air shutter B. Locking screw A. Screws 4. Push CANCEL/OFF pad. 5. Reinstall flame spreader and oven bake burner cover. 9 Check Operation of Oven Broil Burner 1. Close the oven door. 2.

Press the BROIL pad. 3. Press the START pad. The oven burner should light within 8 seconds; under certain conditions it may take the burner up to 50 to 60 seconds to light. Refer to the Use and Care Guide for proper operation of the oven controls. Replace Oven Racks & Storage or Warming Drawer Replace oven racks in oven cavity. Insert storage drawer or warming drawer into slide rails on sides of drawer opening. Lift front of drawer slightly and push firmly to close drawer. Complete Installation 1. Check to be sure all parts are now installed.

If there is an extra part, go back through the steps to see which step was skipped. 2. Check to be sure you have all of your tools. 3. Dispose of/recycle all packaging materials.

4. Check to be sure the range is level. See "Level Range." 5. Use a mild solution of liquid household cleaner and warm water to remove waxy residue caused by protective shipping material.

Dry thoroughly with a soft cloth. For more information, see the "Range Care" section of the Use and Care Guide. 6. Read "Range Use" in the Use and Care Guide. 7. Plug into a grounded 3 prong outlet. 8. Turn on surface burners and oven. See the Use and Care Guide for specific instruction on range operation.

If range does not operate, check the following: s Household fuse is intact and tight; or circuit breaker has not tripped.

s s Adjust Oven Broil Burner Flame (if needed) Look through oven window to check broil burner for proper flame. @@No yellow tips, blowing or lifting of flame should occur. If flame needs to be adjusted: 1. Loosen the lock screw on the air shutter located at the rear of the broil burner. 2. Adjust the air shutter as need. 3. Tighten lock screw. Range is plugged into a grounded 3 prong outlet. Electrical supply is connected.

See "Troubleshooting" in the Use and Care Guide. A 9. When the range has been on for 5 minutes, feel for heat. If you do not feel heat, turn the range off and check to see that the gas supply line shutoff valve is open. s If the gas supply line shutoff valve is closed, open it, then repeat the 5-minute test as outlined above.

s A. Lock screw If the gas supply line shutoff valve is open, contact a qualified technician. 10 GAS CONVERSIONS WARNING 2. Remove storage drawer or warming drawer. Locate gas pressure regulator at rear of storage or warming drawer compartment.

NOTE: On models with a warming drawer, an access cover must be removed from the gas pressure regulator. A Explosion Hazard Use a new CSA International approved gas supply line. Install a shut-off valve. Securely tighten all gas connections. If connected to LP, have a qualified person make sure gas pressure does not exceed 14" (36 cm) water column. @@Failure to do so can result in death, explosion, or fire. A. @@Gas pressure regulator 3. Remove plastic cover from gas pressure regulator cap. 4.

@@@@Connect anti-tip bracket to rear range foot. Reconnect the anti-tip bracket, if the range is moved. @@Plastic cover B. Gas pressure regulator cap with solid end facing out C. Gas pressure regulator cap with hollow end facing out D. Washer E.

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Gas pressure regulator cap To Convert Gas Pressure Regulator 1. @@@@6. @@Remove burner cap. 2.

Using a Quadrex or Phillips screwdriver, remove the burner base. @@To range B. Manual shutoff valve "closed" position C. Gas supply line 11 3. @@@@Set gas orifice spud aside.

To Convert Oven Bake Burner 1. Remove oven racks. 2. @@IMPORTANT: Do not overtighten. @@See "Adjust Oven Bake Burner Flame" section. C A D B B A. Orifice spud B. Orifice spud holder C. Screw D. Spark electrode A D C A A. Orifice hood B. Pin C. Natural gas: increase gas - increase flame size (preset at factory for Natural gas) D. LP gas: decrease gas - decrease flame size 4. Remove the cardboard orifice spud holder located on the back of the range near the gas inlet.

Gas orifice spuds are stamped with a number, marked with 1 color dot, and have a groove in the hex area. Replace the Natural gas orifice spud with the correct LP gas orifice spud. A To Convert Oven Broil Burner Use a 1/2" combination wrench to turn the orifice hood down snug onto the pin (about 2 to 2 1/2 turns). IMPORTANT: Do not overtighten. The oven broil burner flame cannot be properly adjusted if this conversion is not made. See "Adjust Oven Broil Burner Flame" section. A. Groove Refer to the following chart for correct LP gas orifice spud placement. LP Gas Orifice Spud Chart for Standard Surface Burners Burner Rating 12,000 BTU 11,000 BTU 8,000 BTU 5,000 BTU Color Green/Magenta Green/Yellow Green/Lt. Blue Green/Brown Size 1. 03 mm 0.99 mm 0.80 mm 0.65 mm ID Number L103 L99 L80 L65 NOTE: Refer to the Model Number and Serial Number Plate located behind the left side of the storage or warming drawer for proper sizing of spuds for each burner location. 5.

Place Natural gas orifice spuds in the cardboard orifice spud holder. 6. Replace the burner base using both screw. 7. Replace burner cap. 8. Repeat steps 1-7 for the remaining burners. A A. Orifice hood 12 Replace Oven Racks & Storage or Warming Drawer Replace oven racks in oven cavity. Insert storage drawer or warming drawer into slide rails on sides of drawer opening. Lift front of drawer slightly and push firmly to close drawer. 2. Remove storage drawer or warming drawer. Locate gas pressure regulator at rear of storage or warming drawer compartment. NOTE: On models with a warming drawer, an access cover must be removed from the gas pressure regulator.

Complete Installation 1. Refer to the "Make Gas Connection" section for properly connecting the range to the gas supply. 2. Refer to the "Electronic Ignition System" section for proper burner ignition, operation, and burner flame adjustments. IMPORTANT: You may have to adjust the "LO" setting for each cooktop burner. Checking for proper cooktop, bake and broil burner flame is very important. @@The outer cone is not as distinct as the inner cone. LP gas flames have a slightly yellow tip. 3. @@@@Gas pressure regulator 3.

Remove plastic cover from gas pressure regulator cap. 4. @@NOTE: Do not remove the spring beneath the cap. Side view before Natural Gas Conversion A LP WARNING LP B D E NG Tip Over Hazard A child or adult can tip the range and be killed. Connect anti-tip bracket to rear range foot. Reconnect the anti-tip bracket, if the range is moved. Failure to follow these instructions can result in death or serious burns to children and adults. A. Plastic cover B. Gas pressure regulator cap with hollow end facing out C.

Gas pressure regulator cap with solid end facing out D. Washer E. Gas pressure regulator cap C NG Side view after To Convert Gas Pressure Regulator 1. Ensure that the main shutoff valve is in the closed position and the power supply cord is unplugged. B 5. @@6. @@Remove burner cap. 2. Using a Quadrex or Phillips screwdriver, remove the burner base. @@To range B.

Manual shutoff valve "closed" position C. Gas supply line 13 3. @@@@Set gas orifice spud aside. B A D C A D A C B A. Orifice hood B. Pin C. Natural gas: increase gas - increase flame size (preset at factory for Natural gas). D. LP gas: decrease gas - decrease flame size A. Orifice spud B.

Orifice spud holder C. Screw D. Spark electrode To Convert Oven Broil Burner Use a 1/2" combination wrench to loosen the orifice hood away from the pin (about 2 to 2 1/2 turns). The oven broil burner flame cannot be properly adjusted if this conversion is not made. See "Adjust Oven Broil Burner Flame" section.

4. Gas orifice spuds are stamped with a number on the side. Replace the LP gas orifice spud with the correct Natural gas orifice spud. XXX A A. Stamped number Refer to the following chart for the correct Natural gas orifice spud placement.

Natural Gas Orifice Spud Chart for Standard Surface Burners Burner Rating Color Size ID Number N186 N176 N151 N139 N112 A A. Orifice hood 13,500 BTU 12,000/12,500 BTU 9,500 BTU 8,000 BTU 5,000 BTU Blue/Orange Blue/Red Blue/Brass Blue/Black Blue/White 1.86 mm 1.76 mm 1.51 mm 1.39 mm 1.12 mm Replace Oven Racks & Storage or Warming Drawer Replace oven racks in oven cavity. Insert storage drawer or warming drawer into slide rails on sides of drawer opening. Lift front of drawer slightly and push firmly to close drawer. NOTE: Refer to the Model Number and Serial Number Plate located behind the left side of the storage or warming drawer for proper sizing of spuds for each burner location.

5. Place LP gas orifice spuds in plastic parts bag for future use and keep with literature package. 6. Replace the burner base using both screws. 7. Replace burner cap. 8. Repeat steps 1-7 for the remaining burners. Complete Installation 1. Refer to the "Make Gas Connection" section for properly connecting the range to the gas supply.

2. Refer to the "Electronic Ignition System" section for proper burner ignition, operation, and burner flame adjustments. IMPORTANT: You may have to adjust the "LO" setting for each cooktop burner. Checking for proper cooktop, bake and broil burner flame is very important. Natural gas flames do not have yellow tips.

3. Refer to "Complete Installation" in the "Installation Instructions" section of this manual to complete this procedure. To Convert Oven Bake Burner 1. Remove oven racks. 2.

Use a 1/2" combination wrench to loosen the orifice hood away from the pin (about 2 to 2 1/2 turns). @@See "Adjust Oven Bake Burner Flame" section. 14

Notes 15 ANTI-TIP BRACKET TEMPLATE Cut on dotted lines and place the left edge against the left side cabinet and the top edge against the rear wall. Top edge 9758657 © 2005. All rights reserved. 3/05 Printed in U.S.A. Left edge .



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