



TX343 Remote Electronic Ignition and Control System



OPERATING INSTRUCTIONS -FOR OEM USE ONLY



TX343



GM8K-935

⚠ WARNING

Fire or explosion hazard. Attempted disassembly or repair of controls can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

Read these instructions carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. The product must be installed and operated according to all local regulations.

A. **BEFORE OPERATING** verify that no gas is in the area around the appliance, including near the floor.

WHAT TO DO IF YOU SMELL GAS:

- Do not light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call the gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.
- B. Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- C. Do not use this control or any gas appliance if any part has been under water or in contact with water. Immediately call a qualified service technician to replace the control system and any gas control system which has been under water or in contact with water.
- D. These instructions are to be referenced as a user guide, and do not supersede appliance manufacturer's lighting instructions.

APPLICATION

TX343 is a battery-powered electronic remote ignition and control system for gas appliances with pilot burners and ODS systems.

GENERAL NOTES

Radio frequency Remote

315 MHz for US, Canada;

Batteries - Remote Handset:

3 x 1.5V "AAA" (quality alkaline recommended)
4.5V ~~AAA~~ 100mA

Batteries - Receiver:

4 x 1.5V "AA" (quality alkaline recommended)
6.0V ~~AA~~ 1500mA

An AC Mains Adapter may be used instead of batteries (only the Grand Mate or an AC Mains Adapter approved by Grand Mate can be used).

NOTE: These remote handsets, receiver, wall switches, are not interchangeable with previous versions.

For all lighting/ignition instructions please refer to appliance manufacturer's instructions.

NOTE: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC exposure compliance requirement, please follow operation instruction as documented in this manual.

NOTE: This device complies with CAN ICES-3 (B)/NMB-3(B)

- ◆ This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.
Ce produit répond aux spécifications techniques applicables à l'Innovation, Science et Développement économique Canada.
- ◆ Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs.

Operation is subject to the following two conditions:

- 1) This device may not cause interference, and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

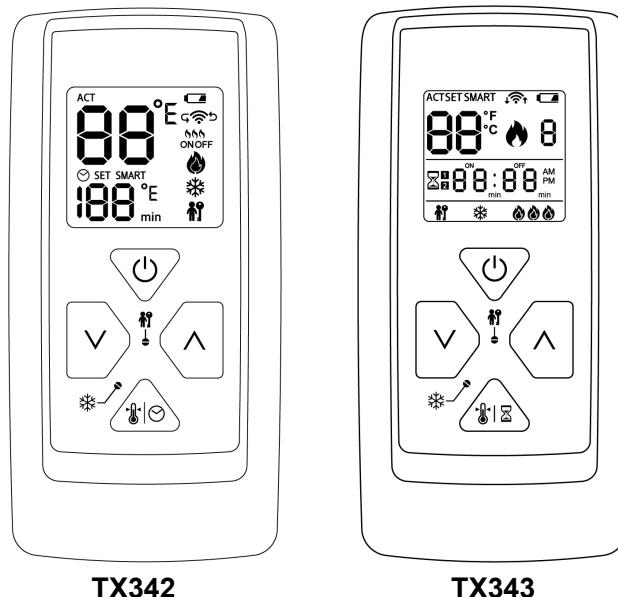
- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

◆ ISED RF exposure statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

TX343 SERIES REMOTE HANDSET FEATURES



TX342

TX343

Remote Controller	315MHz Unidirectional	TX342	TX343
ON/ OFF		★	★
Childproof		★	★
Revo Home Compatible**		★	★
Flame Height Adjustment		★	★
Standing Pilot*		★	★
LCD		★	★
Low Battery Indicator		★	★
Second Burner			
Thermostat		★	★
Timer		★	★
Error Code Notification**		★	★
Fan Speed			
Light Dimmer			
AUX ON/ OFF			
Fan Delay ON/ OFF			
Clock			★
Daily Program Thermostat			★
3 Independent Access Keys			

*Disabled for Europe

**ONLY for Bidirectional Model

SYMBOL

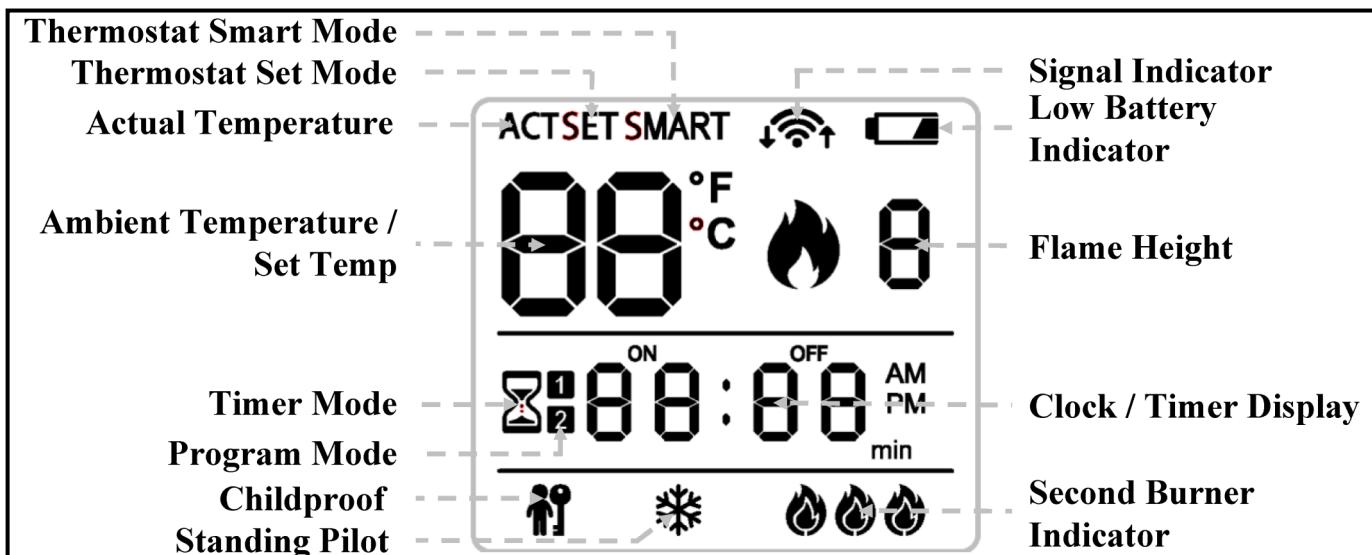
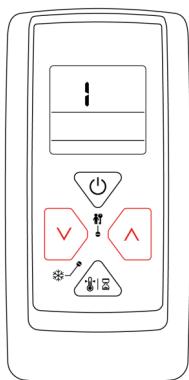


Figure 1: Symbol Display

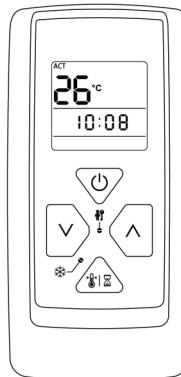
SETTING DAY AND TIME



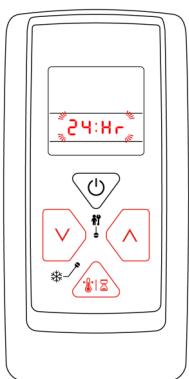
After batteries installed, day setting:

Press or to select a number corresponding with the day of the week (eg. 1= Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday).

Idle 10 seconds or press to confirm.



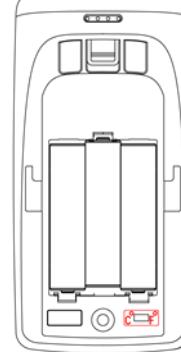
After setting the time and temperature scale, actual temperature display on standby screen.



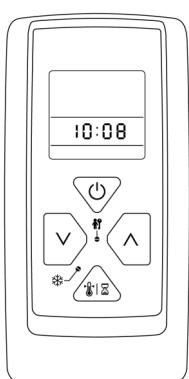
12/24 Hour setting:

Press or to select 12:HR or 24:HR

Idle 10 seconds or press to confirm.



Choose Fahrenheit or Celsius from slide switch.



Press or to adjust Hour,

Idle 10 seconds or press to confirm.

Press or to adjust minute, Idle 10 seconds or press to confirm.

SETTING THE ELECTRONICS CODE

(First time use only)

A code is selected automatically for all Grand Mate electronics from among 65,000 random codes available. The receiver had to learn the code of the handset:

- Slide the ON/OFF/REMOTE slide switch from OFF to REMOTE mode. (see Figure 2).
- Press Pairing button, an acoustic signal and green LED flashing. (see Figure 3).
- Within the subsequent 10 second press button on the remote handset until you hear two (2) beep confirming the code is set.

NOTE: This is a one time setting only, and is not required when changing the batteries in the remote or receiver.

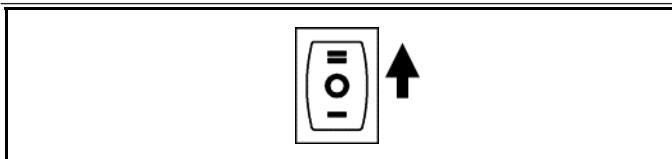


Figure 2: Slide to REMOTE mode

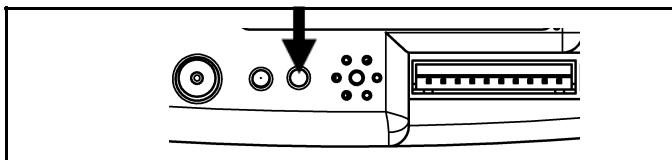
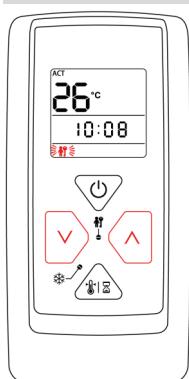


Figure 3: Press receiver's pairing button

CHILPROOF**ON:**

To activate press and buttons simultaneously. indicated and the handset is rendered inoperative include the off function.

OFF:

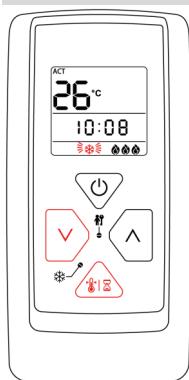
To deactivate press and .

MANUAL MODE (HANDSET)**NOTICE**

Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.

⚠ WARNING

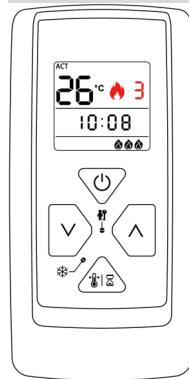
When pilot ignition is confirmed, main flame valve turn on to maximum flame height.

STANDING PILOT**Handset**

Press and hold button to activate appliance to standing pilot. indicated.

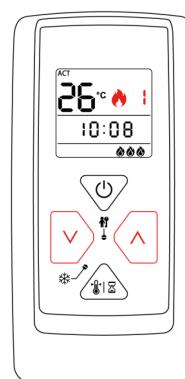
Press and hold button to deactivate appliance to standing pilot. disappear.

NOTE: Standing pilot available to activate or deactivate.

TURN ON THE FIRE

Press button, a symbol indicating transmission appears on the display. The receiver confirms transmission with an acoustic signal.

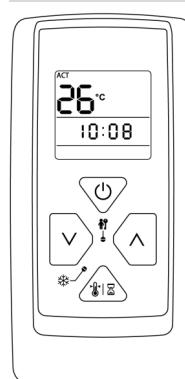
- Main burner and rear burner turn on once pilot ignition is confirmed.
- Main gas goes Max flame height first, and will goes last flame height memory.
- Handset automatically goes into Manual mode after main burner ignition.

FLAME HEIGHT ADJUSTMENT

To increase flame height press .

. Max flame height is 5.

To decrease flame height press .

TURN OFF THE FIRE

Press button, the receiver confirms transmission with an acoustic signal.

NOTE: There is a 3 second delay

CHANGING THE MODE OF THERMOSTAT

During the appliance flame on, briefly pressing the button changes the mode of thermostat in the following order:

→ → → → and back to

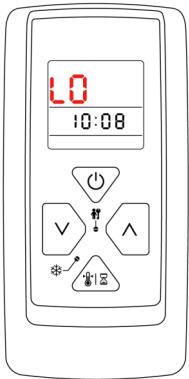
NOTE: While pressing either button a symbol indicating transmission appears on the display. The receiver confirms transmission with an acoustic signal.

MODE OF THERMOSTAT – SET MODE

In Set mode, indicated. Room temperature is measured from handset and compared to the set temperature. The flame height modulated between last setting and off to achieve the set temperature.

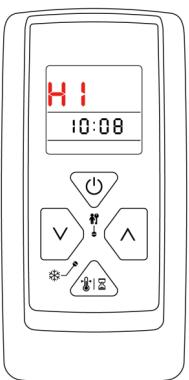
press or to change set temperature.

NOTE: The default set temperature is 22°C (72°F). Set temperature range from



While ambient temperature equal or lower than 10°C (50°F) will appear **LO**.

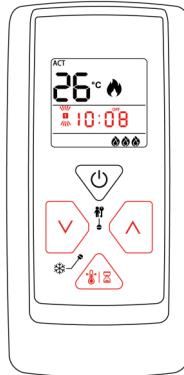
Handset can still operate all the functions except display ambient temperature, while ambient temperature higher than 10°C (50°F) then recovery display.



While ambient temperature equal or greater than 37°C (99°F) will appear **HI**.

Handset will transmit a shutdown signal to appliance.

MODE OF OPERATION – PROGRAM MODE



In program mode, **1** ^{ON} indicated. Appliance thermostat according to set temperature and period between ON time and OFF time.

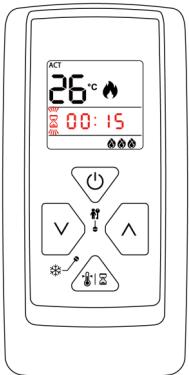
Press and hold to enter settings.

Briefly pressing or button to changes the mode of thermostat in the following order:

1 ^{ON} ← 17 → 15 → b7 → 1 → 2 → 3 → 4
← 5 → b → 7 → **1** ^{ON}

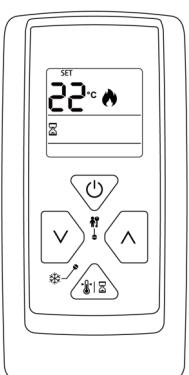
1 ^{ON}	
2 = Set Temp while ON	
17 = Monday to Sunday	3 = Wednesday
15 = Monday to Friday	4 = Thursday
b7 = Saturday to Sunday	5 = Friday
1 = Monday	6 = Saturday
2 = Tuesday	7 = Sunday

MODE OF OPERATION – TIMER MODE



In Timer mode, **2** indicated. At the end of countdown time period, the fire turns off.

NOTE: Time period available to set from 15 minutes to 9 hours.

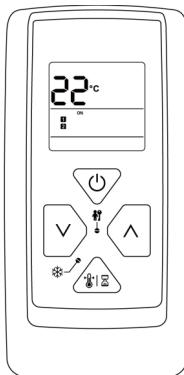


Press and hold to check the timer mode set temperature.

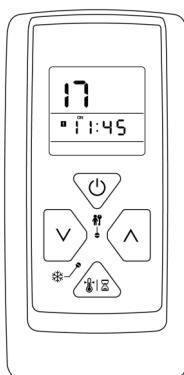
Press or to change set temperature.

To cancel thermostat function in timer mode, press to change set temperature to --.

NOTE: There are individual set temperature memories for **SET** and **2**. Set temperature show for 5 seconds every 25 seconds.



Briefly pressing or to can check ON Temp default is 22°C (72°F).



Press to enter ON Temp setting, pressing or to change the temperature, press or idle for 10 sec to save and exit to next setting.

Except **2**, press to enter ON time and OFF time setting, to change the time, press , then press or to change the hour, press or idle for 10 sec to enter minute setting.

Press or to change the minute, press or idle for 10 sec save and exit to next setting.

Setting follow the sequence of :

1 ON → 1 OFF → 2 ON → 2 OFF

While complete all settings, Idle for 10 sec to save and exit to program mode.

•Default settings:

Program 1 : 1 ON : 23:45 1 OFF: 23:45

Program 2 : 2 ON : 23:45 2 OFF: 23:45

•Two ON times can be programmed per day

•The ON/OFF times have to be programmed in the order

1 ON ≤ 1 OFF < 2 ON ≤ 2 OFF

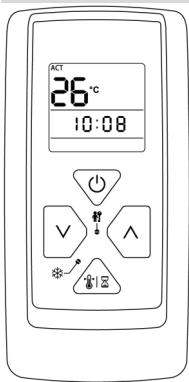
•If 1 ON = 1 OFF or 2 ON = 2 OFF the timer is deactivated.

To have the fire overnight, it can be set: 2 OFF 23:50 and 1 ON 0:00

NOTE: Only one set temperature memory for SET and

1, 2, the flame height always default to its last setting.

SLEEP MODE



While handset is idle for 1 minutes, it will turn into sleep mode.

Clock will remain working, and display ambient temperature.

MISCELLANEOUS

Low Battery Indication

Low battery indicator  indicated.

Battery replacement

Battery replacement is recommended at the beginning of each heating season. Do not use metal tools to remove batteries. Using a metal tool could cause a short that may damage the receiver.

Factory reset

Remove battery, press and hold  and install battery, backlight flash rapidly 3 times represent factory reset complete.

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