



GRAND MATE CO., LTD

TX121 Remote Electronic Ignition and Control System



OPERATING INSTRUCTIONS -FOR OEM USE ONLY



TX121

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

TX121 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;

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.

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.

Batteries - Remote Handset:

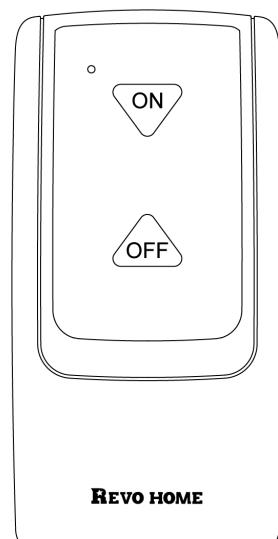
3 x 1.5V "AAA" (quality alkaline recommended)

4.5V 100mA

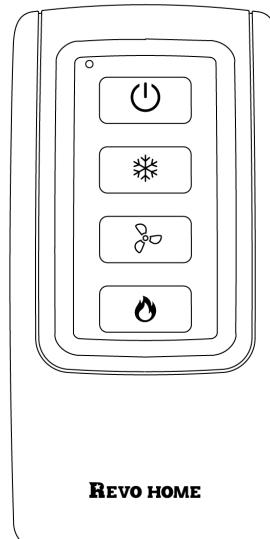
NOTE: These remote handsets, receiver, wall switches, are not interchangeable with previous versions.

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

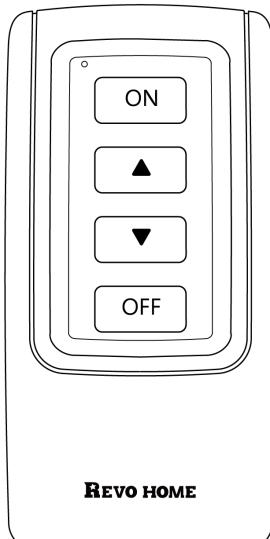
TX143 SERIES REMOTE HANDSET FEATURES



TX121



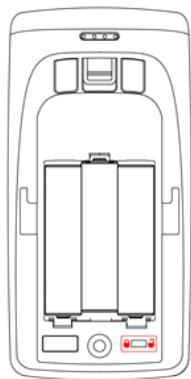
TX142



TX143

Remote Controller Model	315MHz Unidirectional	TX121	TX142	TX143
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

CHILDPROOF

There's a slide switch can select lock or unlock.

Lock: The handset is rendered inoperable include the off function.

Dexen Industries, Inc

9220 Norwalk Blvd
Santa Fe Springs, CA 90670

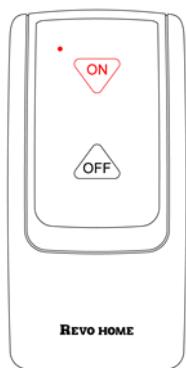
Tel: +1 5626998490

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.

TURN ON THE FIRE

Press  button, 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.

TURN OFF THE FIRE

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

NOTE: There is a 3 second delay before the next ignition is possible.

MISCELLANEOUS**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.



GRAND MATE CO., LTD

TX142 Remote Electronic Ignition and Control System



OPERATING INSTRUCTIONS -FOR OEM USE ONLY



TX142

⚠ 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

TX142 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;

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.

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.

Batteries - Remote Handset:

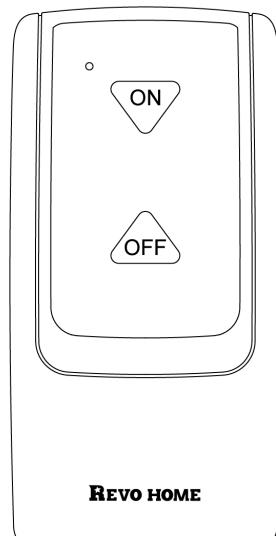
3 x 1.5V "AAA" (quality alkaline recommended)

4.5V 100mA

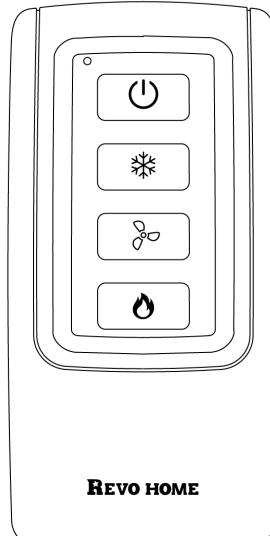
NOTE: These remote handsets, receiver, wall switches, are not interchangeable with previous versions.

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

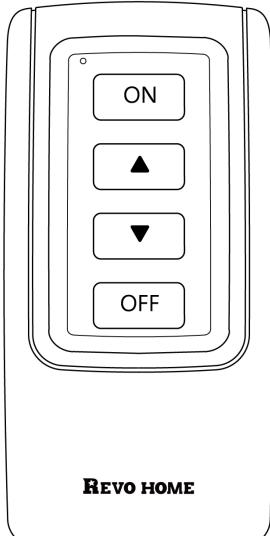
TX143 SERIES REMOTE HANDSET FEATURES



TX121



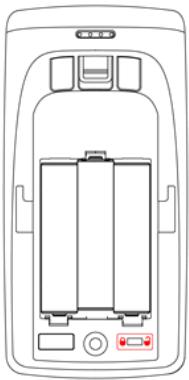
TX142



TX143

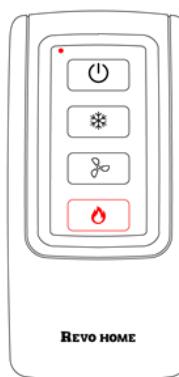
Remote Controller Model	315MHz Unidirectional	TX121	TX142	TX143
ON/ OFF		★	★	★
Childproof		★	★	★
Revo Home Compatible		★	★	★
Flame Height Adjustment			★	★
Standing Pilot*				★
LCD				
Low Battery Indicator				
Second Burner				
Thermostat				
Timer				
Error Code Notification*				
Fan Speed			★	
Light Dimmer				
AUX ON/ OFF				
Fan Delay ON/ OFF				
Clock				
Daily Program Thermostat				
3 Independent Access Keys				

*Disabled for Europe

CHILDPROOF

There's a slide switch can select lock or unlock.

Lock: The handset is rendered inoperable include the off function.

FLAME HEIGHT ADJUSTMENT**Handset**

During the appliance flame on, briefly pressing the button changes the flame height in the following order:

Flame height 3 \rightarrow 2 \rightarrow 1 \rightarrow and back to 3.

NOTE: While pressing either button a Green indicator flashes. The receiver confirms transmission with an acoustic signal.

MANUAL MODE (HANDSET)**NOTICE**

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

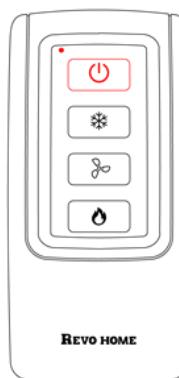
⚠ WARNING

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

PILOT FLAME**Handset**

Press button to activate appliance to pilot flame.

Press button to deactivate appliance to pilot flame.

TURN OFF THE FIRE

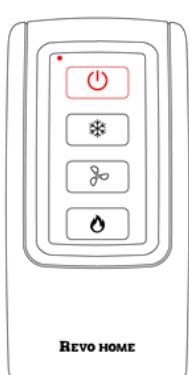
Press button, the receiver confirms transmission with an acoustic signal.

NOTE: There is a 3 second delay before the next ignition is possible.

FAN SPEED ADJUSTMENT**Handset**

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

Fan speed 3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow and back to Fan speed 3

TURN ON THE FIRE

Press button, 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.

MISCELLANEOUS**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.

Dexen Industries, Inc

9220 Norwalk Blvd
Santa Fe Springs, CA 90670

Tel: +1 5626998490



GRAND MATE CO., LTD

TX143 Remote Electronic Ignition and Control System



OPERATING INSTRUCTIONS -FOR OEM USE ONLY



TX143

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

TX143 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;

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.

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.

Batteries - Remote Handset:

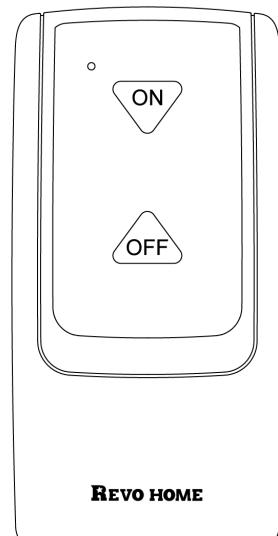
3 x 1.5V "AAA" (quality alkaline recommended)

4.5V 100mA

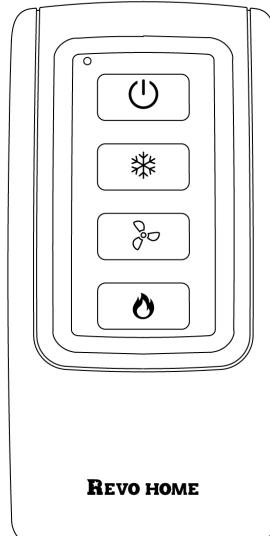
NOTE: These remote handsets, receiver, wall switches, are not interchangeable with previous versions.

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

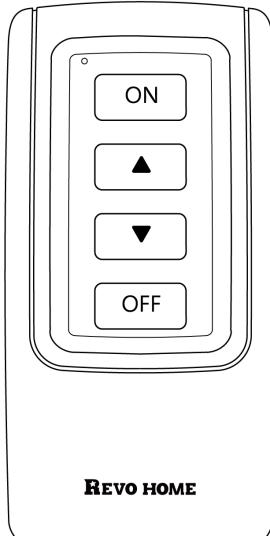
TX143 SERIES REMOTE HANDSET FEATURES



TX121



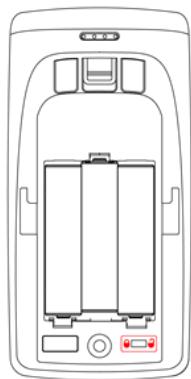
TX142



TX143

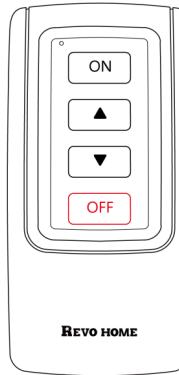
Remote Controller Model	315MHz Unidirectional	TX121	TX142	TX143
ON/ OFF		★	★	★
Childproof		★	★	★
Revo Home Compatible		★	★	★
Flame Height Adjustment			★	★
Standing Pilot*			★	
LCD				
Low Battery Indicator				
Second Burner				
Thermostat				
Timer				
Error Code Notification*				
Fan Speed			★	
Light Dimmer				
AUX ON/ OFF				
Fan Delay ON/ OFF				
Clock				
Daily Program Thermostat				
3 Independent Access Keys				

*Disabled for Europe

CHILDPROOF

There's a slide switch can select lock or unlock.

Lock: The handset is rendered inoperable include the off function.

TURN OFF THE FIRE

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

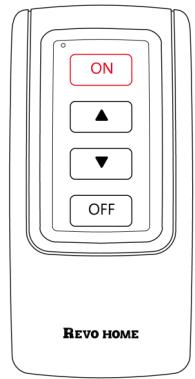
NOTE: There is a 3 second delay before the next ignition is possible.

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.

TURN ON THE FIRE

Press **ON** button, 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.

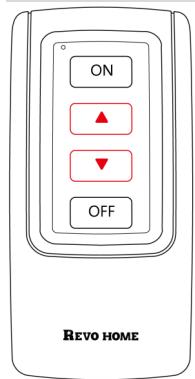
MISCELLANEOUS**Battery replacement**

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.

Dexen Industries, Inc

9220 Norwalk Blvd
Santa Fe Springs, CA 90670

Tel: +1 5626998490

FLAME HEIGHT ADJUSTMENT

Handset

During the appliance flame on, briefly pressing the **▲** or **▼** button changes the flame height.

NOTE: While pressing either button a Green indicator flashes. The receiver confirms transmission with an acoustic signal.