NuTone®

NGD00Z

Z·WAVE PLUS

GARAGE DOOR OPENER REMOTE COMMAND TRANSCEIVER with TILT SENSOR

Installation Instructions

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❶ PRODUCT DESCRIPTION

NGD00Z Overview
- A garage door opener remote command transceiver with built-in Z-Wave technology.
- Allows remote operation of a garage door opener using Z-Wave controllers.
- Acts as a Z-Wave repeater to improve communications within the Z-Wave mesh network.

NGD00Z Summary of Operation
- NGD00Z connects to the garage door opener's pushbutton wall console terminals.
- A wireless tilt sensor mounts on the garage door and reports the door's position to the NGD00Z.
- NGD00Z responds to Z-Wave commands from Z-Wave controllers to open or close the garage door.
- A warning indicator light flashes and a beeper sounds for 5 seconds before the door begins to move.
- If the door does not completely open or close, a second open or close command can be sent after 30 seconds.
- If the door does not completely open or close after the second attempt, the NGD00Z operation is suspended until a local garage door pushbutton is activated.

Z-Wave Information
- Z-Wave® is a registered trademark of Sigma Designs Inc. and/or its subsidiaries.
- Z-Wave is an Interoperable two-way RF mesh networking technology designed for use with a Z-Wave gateway/controller and other Z-Wave enabled devices.
- Replication is the process of copying or transferring your Z-Wave network from one controller to another.
- This is a Security enabled Z-Wave product and must be used with a Security enabled Z-Wave controller in order to fully utilize this product. As such, this device will not respond to Basic CC commands.
- ASSOCIATION: The NGD00Z supports 1 Group with 1 Node. Group 1 must be assigned the Node ID of the controller to which unsolicited notifications from the NGD00Z will be sent. The Z-Wave controller should set this association automatically after inclusion.

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❷ SAFETY NOTES

⚠ WARNING ⚠
This operator system is equipped with an unattended operation feature. This door could move unexpectedly. NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR!

⚠ WARNING ⚠
This system can be installed on sectional type (roll up) doors only per (UL-325). DO NOT INSTALL ON ONE-PIECE DOORS!
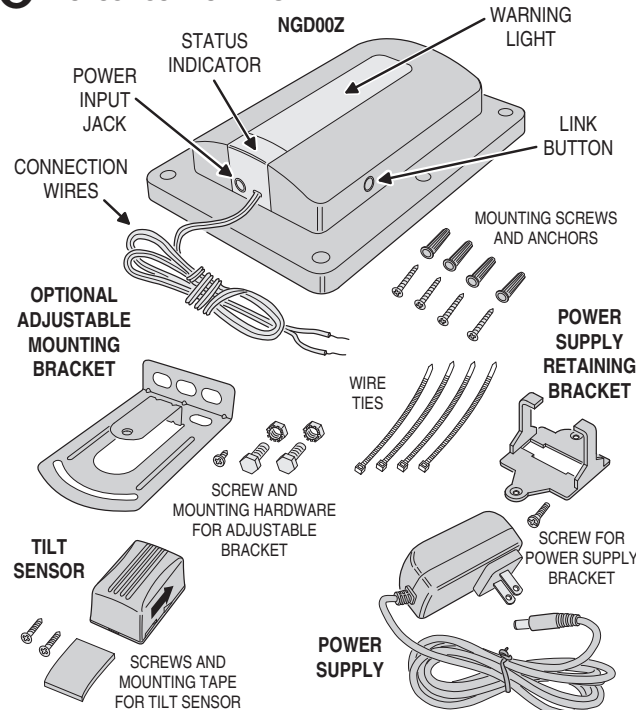
⚠ WARNING ⚠
The Remote Command Transceiver must be mounted in the garage, in sight of the garage door, where the visual and audible movement warning indicators can be clearly seen and heard.
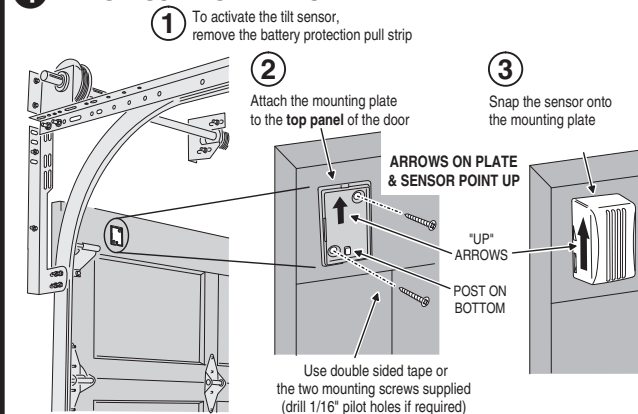
⚠ WARNING ⚠
Do not install the Remote Command Transceiver on garage door operators manufactured prior to 1993 (models without an operational safety beam entrapment detection system).

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❸ PRODUCT COMPONENTS

NGD00Z
STATUS INDICATOR
WARNING LIGHT
POWER INPUT JACK
LINK BUTTON
CONNECTION WIRES
MOUNTING SCREWS AND ANCHORS
OPTIONAL ADJUSTABLE MOUNTING BRACKET
WIRE TIES
POWER SUPPLY RETAINING BRACKET
SCREW AND MOUNTING HARDWARE FOR ADJUSTABLE BRACKET
TILT SENSOR
SCREW FOR POWER SUPPLY BRACKET
SCREWS AND MOUNTING TAPE FOR TILT SENSOR
POWER SUPPLY

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❹ TILT SENSOR INSTALLATION AND BATTERY

① To activate the tilt sensor, remove the battery protection pull strip

② Attach the mounting plate to the **top panel** of the door

③ Snap the sensor onto the mounting plate

ARROWS ON PLATE & SENSOR POINT UP

"UP" ARROWS

POST ON BOTTOM

Use double sided tape or the two mounting screws supplied (drill 1/16" pilot holes if required)

LOW BATTERY REPLACEMENT

The system will notify you when the battery is low, replace the battery with a type CR2032 coin cell

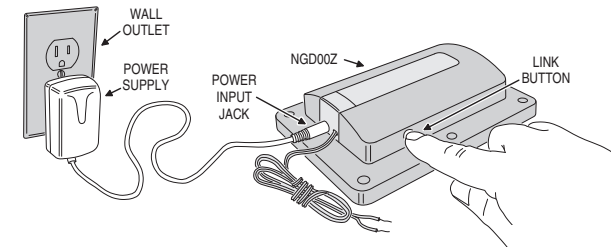**①** To open the case, twist a small screwdriver in case slot

SLOT
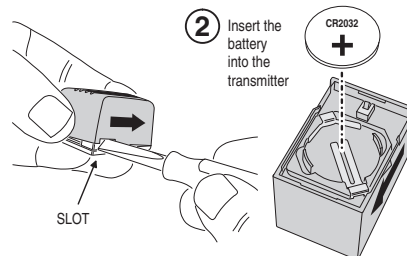
PLUS SIDE UP !!!

② Insert the battery into the transmitter

CR2032 +

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❺ ADDING / REMOVING FROM YOUR Z-WAVE NETWORK

Note: Plug in the NGD00Z near your Z-Wave Controller for these steps

WALL OUTLET
POWER SUPPLY
NGD00Z
POWER INPUT JACK
LINK BUTTON

ADDING THE NGD00Z TO YOUR CONTROLLER

① Place your Z-Wave Controller into Discovery or Add mode.

② Press and release the link button on the NGD00Z.

③ Confirm that the NGD00Z was added to your Z-Wave Controller.

Refer to your Z-Wave Controllers instructions for additional information on adding devices.

REMOVING THE NGD00Z FROM YOUR CONTROLLER

① Place your Z-Wave Controller into Remove mode.

② Press and release the link button on the NGD00Z.

③ Confirm that the NGD00Z was removed from your Z-Wave Controller.

Refer to your Z-Wave Controllers instructions for additional information on removing devices.

❻ NGD00Z MOUNTING

Tilt sensor mounted on the top panel of the door

The NGD00Z typically mounts on the ceiling near the opener and the power outlet

! WARNING !

REMOVE POWER FROM THE GARAGE DOOR OPENER BEFORE CONTINUING	THE NGD00Z WARNING LAMP MUST BE VISIBLE IN ALL DOOR POSITIONS

THE NGD00Z CAN ALSO BE ATTACHED TO THE OPENER'S HARDWARE USING THE ADJUSTABLE MOUNTING BRACKET

Secure bracket with screw

1A The optional adjustable mounting bracket fits 3 ways on the NGD00Z

INDENT

INDENT

The bracket snaps onto indents on either side or on the end of the NGD00Z

INDENT

① Use the four screws and anchors to mount the NGD00Z above the opener

3/16" HOLES FOR ANCHORS

2A Use the bolts and nuts supplied to attach the bracket to a secure structure

BE SURE THE NGD00Z IS CLEAR OF ALL MOVING PARTS OF THE GARAGE DOOR AND THE WARNING LAMP IS NOT OBSTRUCTED

❼ NGD00Z CONNECTIONS

② Plug the power cord into the power input jack on the NGD00Z

① Connect the NGD00Z connection wires to the pushbutton wall console terminals on the garage door opener. The terminals may be named "PWC", "WC", "PB", "PUSHBUTTON", or "RED and WHITE". Terminal names and locations vary by model.

③ Remove the screw from 120 VAC outlet faceplate. Secure the retaining bracket to the faceplate with the provided screw. Snap the power supply into the bracket while plugging into the outlet.

DO NOT DISCONNECT ANY WIRES CURRENTLY CONNECTED TO THE GARAGE DOOR OPENER !!!

Either wire can connect to either terminal

USE WIRE TIES TO SECURE EXCESS WIRING CLEAR OF ALL MOVING PARTS OF THE GARAGE DOOR AND OPENER

GARAGE DOOR OPENER

PUSHBUTTON
PUSHBUTTON

❽ SYSTEM OPERATION

① Restore power to your garage door opener

② To synchronize the system, use the garage door opener's pushbutton to manually open and close the door

③ Use your Z-Wave Controller to activate your garage door opener

④ The NGD00Z will beep and flash for five seconds before the door moves

⑤ The NGD00Z will activate the door opener and open or close the door

STAY CLEAR OF THE DOOR !!!

BEEP
BEEP
BEEP

FLASH   FLASH
FLASH
FLASH

STAY CLEAR OF THE DOOR !!!

❾ OPERATION NOTES

1. The warning light will flash and the warning beeper will sound for five seconds before the door opener is activated. **STAY CLEAR OF THE DOOR, AND DOOR OPENER. THEY ARE ABOUT TO MOVE!**

2. If the door does not completely open or close after remote activation, the NGD00Z will allow user to try to operate the door one more time. If the second attempt fails, the NGD00Z will go into lock-out mode. See Note #3.

3. If the NGD00Z is in lock-out mode and will not accept remote commands, activate the door from the pushbutton wall console.

4. Once the NGD00Z has initiated the movement of the garage door, another command cannot be sent for 30 seconds. This eliminates the chance of "bouncing" the garage door and possibly damaging the garage door opener.

NGD00Z Specifications

Power Supply: Input: 120 VAC, 0.8 A
Output: 12 VDC, 2 A
Operating Temperature: -4º—122° F (-20º—50° C)
Audible Alarm: 45 db @ 10 feet
Strobe: 360 Lumens
Communications: Z-Wave (908.4 MHz)
Mounting: Screws and anchors to the ceiling, or bracket to the opener's hanging hardware

Tilt Sensor Specifications

Power Supply: Type CR2032 Coin Cell Battery
Operating Temperature: -4º—122° F (-20º—50° C)
Battery Life: 24 Months (typical)
Communications: Proprietary 345 MHz
Range: 100 feet line-of-sight to NGD00Z
Mounting to Garage Door: Double-sided tape or two mounting screws
(Specifications subject to change without notice)

❿ TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Unable to add to Z-Wave network.	NGD00Z was not properly removed from a previous Z-Wave network.	1. Reset the NGD00Z by pressing the LINK button 5 times. A quick beep followed by a longer beep will indicate the reset.
The NGD00Z does not flash or beep when activated.	No power to the NGD00Z.	1. Make sure the power supply is plugged in securely to a live outlet. 2. Make sure the power cord is plugged in securely to the NGD00Z.
The NGD00Z flashes and beeps when activated but the door does not move.	Obstruction blocking the door or incorrect wiring.	1. Make sure that there are no obstacles preventing the door from moving. 2. Make sure that the NGD00Z connection wires are connected to the proper terminals on the garage door opener. Trace the wires from the garage door opener's pushbutton wall console to the door opener. This is where the NGD00Z connection wires should be connected.
Garage door opens or closes, but the status does not change on the Z-Wave Controller.	The tilt sensor signal is not being received by the NGD00Z.	1. Make sure the tilt sensor is mounted correctly on the garage door, with the arrow pointing up. 2. Make sure the battery pull tab has been removed from the tilt sensor. 3. Replace the battery in the tilt sensor.

REGULATORY NOTICES