DOORWORKS 800N / 1200N

GARAGE DOOR OPENER



Installation, Safety & Instruction Manual



Contents

User information..... 2
Important Safety Requirements..... 3
Package Contents..... 4
Assembly and Installation..... 5-6
Programming Process 7-8
Accessories and Connections.....8-9
Key Pad Programming 10-11
Key Features, Specifications & Warranty 12

User Information



Important Safety Notes:

A garage door is the largest automated moving onject in most homes!
Care needs to be taken when using this system.

Like any other electrical appliance or machine it is important to familiarize yourself with the safety guidelines which are applicable to automated garage doors. These are contained at the beginning and throughout this booklet.

The following summary highlights some of these:

- Only operate the garage door when in full view to ensure people remain away from the door whilst it is moving.
- Keep all controls away from children and do not allow them to play with the door.
- Regularly check the door and when required have it repaired or serviced.
- Safety beams or an equivalent safety device are recommended for any automated door for additional safety.

Standard Operation of the Door

When the programmed remote transmitter button is pressed it will start the door moving.
The next press on the button will stop the door.
The next press will start the door moving in the opposite direction.

Installation Details:

Installation Date:	
Installed by:	
Telephone Number:	

Important Safety Requirements and Regulations



FAILURE TO COMPLY WITH THESE SAFETY REQUIREMENTS AND LOCAL SAFETY REGULATIONS MAY RESULT IN SERIOUS INJURY, DEATH OR DAMAGE TO PROPERTY.

PLEASE READ CAREFULLY AND ENSURE THAT ALL SAFETY RECOMMENDATIONS & REQUIREMENTS ARE CONSIDERED AND ADHERED TO.

- The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children being supervised not to play with the appliance.
- WARNING: Important safety instructions. It is important for the safety of persons to follow all instructions. Save these instructions.
- Frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance. Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury.
- Each month check that the drive reverses when the contacts a 40mm high object placed on the floor. Adjust if necessary and recheck since an incorrect adjustment may present a hazard.
- Before installing the drive, remove all unnecessary ropes or chains and disable any equipment, such as locks, not needed for powered operation.
- Before installing the drive, check that the door is in good mechanical condition, correctly balanced and open and closes properly.
- Instal the actuating member for the manual release at a height less than 1.8m.
- Instal any fixed control at a height of at least 1.5m and within sight of the door but away from moving parts.
- Permanently fix the label warning against entrapment in a prominent place or near any fixed controls.
- Permanently fix the label concerning the manual release adjacent to its actuating member.
- After installation, ensure that the mechanism is properly adjusted and that the drive reverses when the door contacts a 40mm high object placed on the floor.
- Necessary information for the safe handling of a drive weighing more than 20kg. This information shall describe how to use the handling means, such as hooks and ropes.
- The drive must not be used with a door incorporating a wicket door (unless the drive cannot be operated with the wicket door open).
- After installation, ensure that parts of the door do not extend over public footpaths or roads.
- It the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Package Contents

Garage Door Opener:

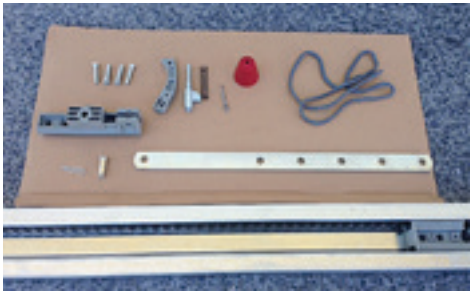
- DoorWorks Garage Door Opener
- 3 pcs Remote Transmitters
- Red push button on unit
- Terminal block
- Transmitter Wall switch holder
- Hardware Accessory Bag
- Rail Bracket
- Curved Door Link
- 2 Mounting Support Straps
- Door Safety Label
- Installation & User Manual

Rail:

The Garage Door Opener 800N & 1200N have three different length rails.

3300mm Rail - for door height up to 2400mm
3700mm Rail - for door height up to 2800mm
4500mm Rail - for door height up to 3700mm

Assembly and Installation





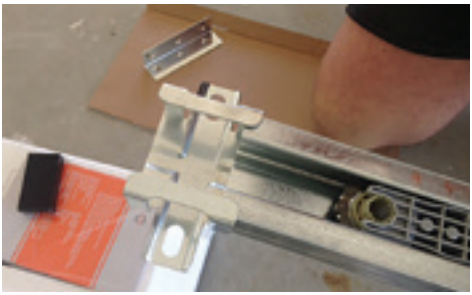
- Remove cardboard packaging from the rail
- Remove trolley assembly parts from the bag and straight bar from the trolley carriage
- Insert **steel keeper** with spring into the **trolley carriage**



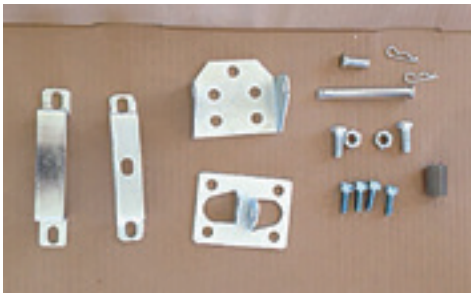


- Using the **split pin** connect the **keeper** to the **engagement lever**
- Using the x4 screws provided fix the two halves of the trolley together (other half is already in rail)



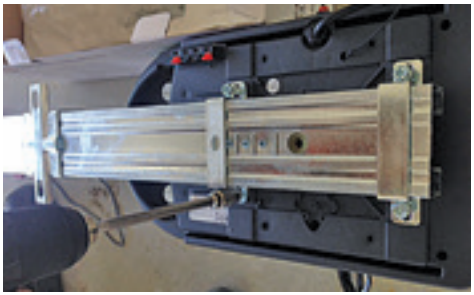


- Attach **straight bar** to the **trolley assembly** with **Clevis Pin & Clip**
- Slide **fixing bracket** onto **rail** at the drive end



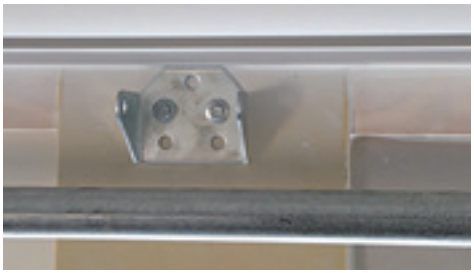


- Place **drive gear** onto **motor unit shaft**





- Fit **rail** to **motor unit** with **brackets** and **set screws** provided
- Fix **door bracket** securely to door so the **clevis pin hole** lines up with the **top roller axle**









- Fix **rail bracket** securely to the lintel and connect rail using long **Clevis Pin**
- Screw **motor unit** to ceiling and connect **straight bar & hockey stick** to the **door bracket**
- Unit is ready for programming as per **"Programming Instructions".**

Bell Wire Connection

A wall switch can be connected with a bell wire connected to the "wall switch' and "com" connections on terminal block.

VERY IMPORTANT

a) the wall switch MUST be configured as NORMALLY OPEN.

b) if the bell wire is connected to a security system there must be NO current transmitted through this wire.

IN BOTH THE ABOVE CASES FAILURE TO CONFORM WILL RESULT IN MALFUNCTION OF CIRCUIT BOARD AND/OR RANDOM OPERATION.

Programming Process

1. Preparation of Garage Door for Opener

First step, open and close the door manually, the door should be running smoothly and well balanced.
Do not instal opener on a Garage Door unless the door runs smoothly in manual operation. The Opener is not designed to compensate for a poorly operating door.

2. Setting the Travel Limits

- Press “P” for 6 seconds to activate programming mode
- Number 2 LED will flash
- Release “P” button
- Push “+” to bring the door to the desired open position
- Push “P” once to set open limit
- Push “—“ and hold to bring door to the desired close position

WARNING – immediately after the next step the door will travel up to the open position and then to the closed position to automatically set the operating force.

- Push “P” once to set the down limit.

3. Operating Force

The Opener has automatically determind the correct operating force required.

4. Coding the Remote Control Handsets

The two remote control handsets and one wall switch are factory coded to the unit.
Additional remote handsets can be coded as follows (maximum of 6 can be coded into one unit)

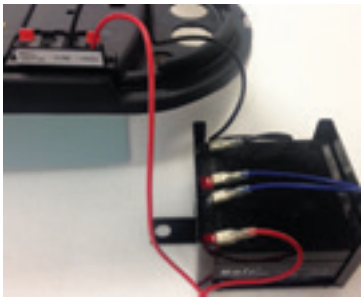
- Push and hold the “P” and “+” buttons at the same time until the LED 7 flashes, then let them go
- Push and hold “+” until LED 7 glows strongly and release
- Press desired handset button twice, LED 7 will flash
- If more handsets are to be programmed, push and hold “+” until LED 7 glows and program handset
- Repeat for all additional handsets
- Push “P” to end setup.

Note that if more than 6 remotes are attempted to be coded the first remote code will be deleted.

5. To Delete Remote Control Codes

- Push and hold the “P” and “+” buttons together until the LED 7 flashes
- Push and hold the “—“ button for 6 seconds
- The code memory has been cleared and all previously programmed Remote Control Handsets will no longer operate this door
- Follow Step 4 to code new Remote Control Handsets.

Accessories and Connections



Connecting the Battery Backup

- Connect the two batteries in series using the blue wire supplied
- With the red and black wire supplied connect +ve battery terminal to 24V DC and –ve battery terminal to “Common” on unit terminal block

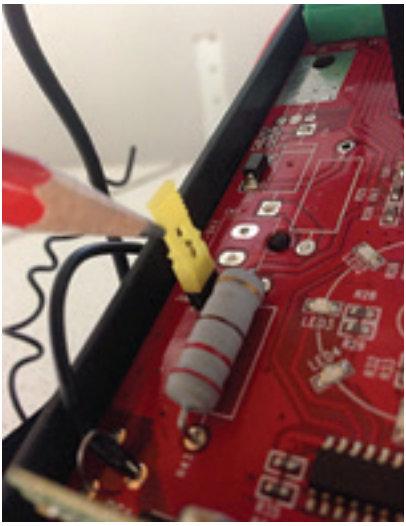


Connecting External Receiver

- Connect power supply from terminal block on top of unit to 16 to 24 VAC/DC and 0V terminals
- Connect N/O and Com terminals to Wall Switch connection (terminal block on top of unit)
- To program remotes
  a. Turn power on with Program Jumper removed (yellow)
  b. When unit beeps put Program Jumper on
  c. Press required remote button twice
  d. Remove Program Jumper
  e. Remove Latch Jumper
  f. Test
  g. Repeat above for additional Remote Control Handsets

P E Beam Connections





- Connect the white wire to GND terminal on PCB
- Connect the red wire to GK terminal on PCB
- Place Jumper (yellow) on PCB
- Fit light beams approximately 250mm from the floor
- Line up beams so that one has a red light and the other a green light both glowing
- When object is across beam the green light goes out and opener will reverse



Key Pad Instructions



1) Product description

This is a dual channel transmitter, which is activated only after having entered a suitable combination. This unit is designed to be installed either in an indoor or outdoor environment. The transmitter has an operating radius range of 200m in an open space and 35m indoors
This unit has a battery life expectancy of 2 years of operation.

Audible signal	Status
1 Short beep	Keypad tone
1 Long beep	Auto power-off
3 Long beeps	Modification of combination confirmed
5 Short beeps	Error during combination input
10 rapid beeps	Battery low

2) Installation

Before physically installing the unit in its mounting position it is good to perform a practice test to assess the effectiveness of the operating range. Considering that the range may be up to 25% less when battery power is low.

2.1) Positioning

Apart from the distance from the receiver, the unit should not be positioned in the vicinity of or in contact with metal structures, which could otherwise exert a signal shielding effect. Thanks to the enclose protection rating of IP 54, this unit can be installed outdoors if required.

3) Method of use

The use of the keypad is based on “combinations”, i.e. numbers from 1 to 9 digitals that the user is required to key in. Once the combination has been entered the user then presses confirm key ◀ or ▶ to transmit and activate the command.

- receiver channel 1 if the user presses ◀
- receiver channel 2 if the user presses ▶

The command will be transmitted only when a valid combination has been entered - if an incorrect combination has been entered the selector will emit an error warning signal when the confirm key is pressed. The combination entered must be exact if for example the correct combination is 0422, the following attempts will be interpreted as errors: 422, 10422, 04222.

If the user inadvertently presses the wrong key when entering a combination, the ◀ or ▶ key should be pressed immediately to generate the error tone, after which the correct combination can be entered starting from the beginning.

While entering the combination no more than 6 seconds can be allowed to elapse between keystrokes, after which interval, the combination must be re entered starting from the beginning.

The units are factory programmed with a standard combination to activate channel one and a standard combination for channel two.

The factory set combinations are as follows:

1a combination to transmit the code associated with the ◀ key.
When the unit is used for the first time, the combination is 11

2a combination to transmit the code associated with the ▶ key.
When the unit is used for the first time the combination is 22

4. Changing combination

Changing the combination associated with channel 1 ◀ Example
This function allows you to change the combination associated with channel 1

1.	Press the "0" key and hold it down while pressing and releasing ◀	0 ◀
2.	Release the "0" key	
3.	Type in the current (original) combination and press ◀	11 ◀
4.	Type in the new combination (up to 8 digits) and press ◀	070576 ◀
5.	Type in the new combination again and press ◀	070576 ◀

Changing the combination associated with the channel 2 ▶ Example
This function allows you to change the combination associated with channel 2 ▶

1.	Press the "0" key and hold it down while pressing and releasing ▶	0 ▶
2.	Release the "0" key	
3.	Type in the current (original) combination and press ▶	22 ▶
4.	Type in the new combination (up to 8 digits)	12345678 ▶
5.	Type in the new combination again and press ▶	12345678 ▶

NOTE: if the two combinations you have entered are identical, once you have entered the combination you can press either ◀ or ▶
NOTE: If the combinations are set without entering any number, the security system is effectively overridden and the command can be transmitted simply by pressing ◀ or ▶ without having to enter a combination.

5. Normal Use

Normal use for activation of channel 1		**Example**
1.	Type in the combination associated with channel 1	12345678 ◀
2.	Press ◀	

Normal use for activation of channel 2		**Example**
1.	Type in the combination associated with channel 1	070576 ▶
2.	Press ▶	

Key features

- Easy installation
- Simple and quick step by step programming
- Compact and powerful
- Soft Start, Soft Stop operation
- Obstacle Sensing feature
- Electronic limits with power fail memory
- Red push button, connection terminal block, wall switch holder standard each unit

Tested and Complies with :
AS/NZS 60335.1:2011 + A1
AS/NZS 60335.2.95: 2012
800N ASA Certificate No. 142008/00
1200N ASA Certificate No. 142008/01

Warranty

WARRANTY 2 YEAR ON COMPLETE UNIT

WARRANTY 5 YEAR ON MOTOR

Key Product Specifications

Model	DoorWorks 800N	DoorWorks 1200N
Motor Voltage	AC: 220-240V - 50HZ	AC: 220-240V - 50HZ
Rated Power	168W Max, 0.769A	260W Max, 1.17A
Maximum Driving Force	800N	1200N
Remote Distance	28-35M	28-35M
Remote Frequency	433.92MHZ	433.92MHZ
Max Door Area	12m²	17m²
Temperature Range	-35 ° C - 70 ° C	-35 ° C - 70 ° C
Rail Length	3.3, 3.7, 4.5	3.3, 3.7, 4.5
Running Speed	140mm/s	140mm/s
Auto Lighting	Turns off after 3-5 minutes	Turns off after 3-5 minutes
Quantity of Remote	3/unit	3/unit
Opener Noise	Below 60DB	Below 60DB
Rated Load	200N	300N

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