

QUANTUA

GARAGE DOOR OPENERS
MODEL 3212 1/2 HP MODEL 3213 1/3 HP

main Wenterstram "Legares man a

Quantum-Guard™ Multi-Level Safety System

Meets or exceeds all government safety standards. The system is equipped with a protection system that automatically reverses a closing door or stops an opening door if it encounters an obstruction. Constantly changing access codes assign a new personal code each time you open the

door with the remote to foil code grabbers.

And the entire system monitors itself prior to and during operation and alerts you to malfunctions. Plus, you get a system that operates consistently at the rated horsepower. That's Quantum™ power—

all the power you need to be safe and secure.

Available Options:

- Two- or Three-Button Remote Controls
- Quantum Deluxe Wall Station with security lock out
 - Quantum Control Keyless Pad
- Keyless Pad

 Outside Key Switch
- Exterior Keyed Lock, cable disconnect system



Quantum Warranties: (Models 3212 and 3213) Five-year limited warranty on mechanical parts. Three years on the electronic components. See warranty certificate for details.

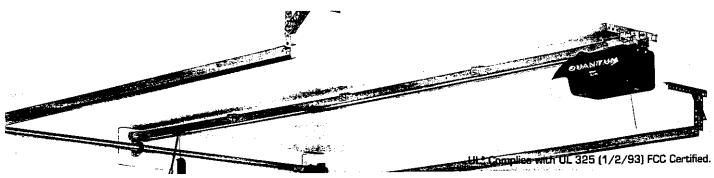
TM

ALL THE REAL POWER YOU NEED



QUANTU

GARAGE DOOR OPENERS MODEL 3212 1/2 HP MODEL 3213 1/3 HP



The Quantum-Guard™ Multi-Level Security System:

- The Quantum-Guard™ system automatically monitors itself for malfunctions in critical systems prior to and during door operation.
- Light will flash during an alert, yet you can open the door. You
 can close the door safely and securely using constant pressure
 on the wall station control button.
- System provides thermal overload protection and surge protection to electronics & motor for longer life.
- Easy-to-operate radio controls with Quantum-GuardTM rolling access codes foil code-grabbers from gaining access to your home through the garage door. Every time you operate the door with the remote, the unit automatically chooses your new personal access code.
- If you accidentally press the remote when out of range, remote and opener codes will not be out of sync.
- Protection sensors automatically reverse a closing door's direction or stops an opening door when it encounters an obstruction. Sensitivity can be adjusted without hampering normal operation. Since the door produces little vibration, it remains highly sensitive to any contact.
- Opener must safely complete the "down" cycle within 21 seconds or door will automatically reverse to "open" position.

- Photo eyes' light beam will signal clear opening unless the beam is broken during closing operation.
- Quantum-Guard™ lock provides extra security only when door is in fully closed position, unlike other units that rely on backforce of the drive unit to provide "locking" of the door.
- Energy-efficient, long-lasting security light stays on for 4 minutes to provide safer and easier night entry to garage and home.

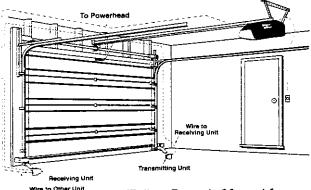
Quantum™ Construction Features:

Vire to Powerhead

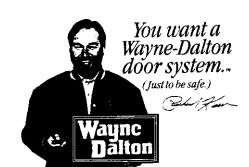
- Hot-dipped galvanized double-angle rail assembly for smooth operation
- Heavy-duty, pre-lubricated full-length chain, instead of half chain/half aircraft cable, for reliable operation and long life
- The tough, all-steel trolley with non-metallic glide surfaces has no metal-to-metal contact for smooth, efficient performance with a minimum of maintenance problems
- External "open" "close" limit adjustment for safety and ease of adjustment
- All the real power you need with Quantum's safer-by-design, direct drive high-efficiency motor with permanently lubed bearings and thermal overload protector
- · Sleek, one-piece molded housing for quiet operation
- System design includes shock absorbing cushion arm to assure that door closes completely even if garage floor heaves in cold weather

SPECIFICATIONS

SPECIFICATIONS		
Models	3212	3213
HP	1/2	1/3
Volts	120v/60Hz	120v/60Hz
Quick-set Radio Controls with Rolling Access Codes	One	One Yes
Wall Button	Yes	
Guantum Lens Cover	Yes	Yes
Calor	Black	Black
Head Weight	24.5 lbs.	23 lbs.
Dimensions		
Overall Dimensions	7 ft. @ 119 in.	8 ft. @ 131 in.
	9 ft. @ 149 in.	10 ft. @ 163 in.
	All Models	
Unit Weight (Rail and Head)	(7 ft.) 50.5 lbs. {8 ft.} 52.5 lbs. {9 ft.} 55.5 lbs. (10 ft.) 57.5 lbs.	(7 ft.) 48 lbs (8 ft.) 50 lbs. (9 ft.) 53 lbs. (10 ft.) 55 lbs.
Maximum Door Height	7 to 10 ft. heights available for all models (Door height to be specified by customer.)	
Door Width	For single or double residential garage doors.	
Minimum Clearance	2" all models	
Lifting Rate	7.2" per second all models	
Quantum Warrenty	5 years limited	5 years limited



(Follow Owner's Manual for all wiring instructions.)





QUANTU

ĩΜ

GARAGE DOOR OPENERS Model 3212 1/2 HP Model 3213 1/3 HP

Touch a button. Quantum's real power gets you inside fast.

Touch the button again, and the garage door closes and locks safely behind you.

You're inside where it's safe, warm and sective and you never had to get out in the you're inside where it's safe, warm and sective and you never had to get out in the suitage wind rain cold or dark. That's the advantage of Quantum's real power the suitage wind rain cold or dark. That's the advantage of Quantum's real power the suitage and weren left unarrented in the car while you prestied with a heavy transaction.

Quantum-Guard™ Multi-Level Safety System

Meets or exceeds all government safety standards. The system is equipped with a protection system that automatically reverses a closing door or stops an opening door if it encounters an obstruction. Constantly changing access codes assign a new personal code each time you open the

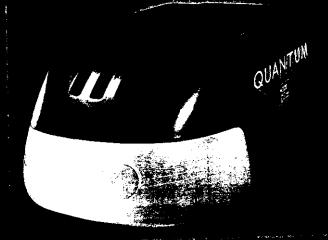
door with the remote to foil code grabbers.

And the entire system monitors itself prior to and during operation and alerts you to malfunctions. Plus, you get a system that operates consistently at the rated horsepower. That's Guantum™ power—

all the power you need to be safe and secure.

Available Options:

- Two- or Three-Button Remote Controls
- Quantum Deluxe Wall Station with security lock out
 - Quantum Control Keyless Pad
- Outside Key Switch
 Exterior Keyed Lock,
 cable disconnect system



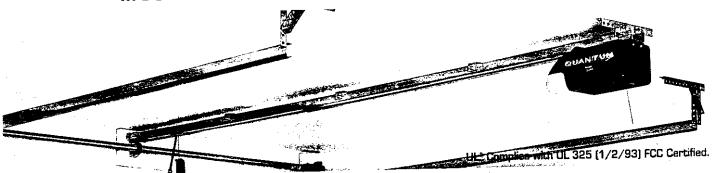
Quantum Warranties:
(Models 3212 and 3213)
Five-year limited
warranty on
mechanical parts.
Three years on the
electronic components.
See warranty
certificate for details.

ALL THE REAL POWER YOU NEED



QUANTU

GARAGE DOOR OPENERS MODEL 3212 1/2 HP MODEL 3213 1/3 HP



The Quantum-Guard™ Multi-Level Security System:

- The Quantum-Guard™ system automatically monitors itself for malfunctions in critical systems prior to and during door operation.
- Light will flash during an alert, yet you can open the door. You can close the door safely and securely using constant pressure on the wall station control button.
- System provides thermal overload protection and surge protection to electronics & motor for longer life.
- Easy-to-operate radio controls with Quantum-GuardTM rolling access codes foil code-grabbers from gaining access to your home through the garage door. Every time you operate the door with the remote, the unit automatically chooses your new personal access code.
- If you accidentally press the remote when out of range, remote and opener codes will not be out of sync.
- Protection sensors automatically reverse a closing door's direction or stops an opening door when it encounters an obstruction. Sensitivity can be adjusted without hampering normal operation. Since the door produces little vibration, it remains highly sensitive to any contact.
- Opener must safely complete the "down" cycle within 21 seconds or door will automatically reverse to "open" position.

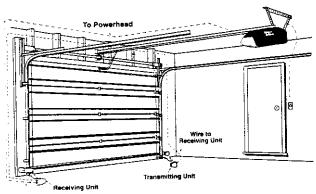
- Photo eyes' light beam will signal clear opening unless the beam is broken during closing operation.
- Quantum-GuardTM lock provides extra security only when door is in fully closed position, unlike other units that rely on backforce of the drive unit to provide "locking" of the door.
- Energy-efficient, long-lasting security light stays on for 4 minutes to provide safer and easier night entry to garage and home.

Quantum™ Construction Features:

- Hot-dipped galvanized double-angle rail assembly for smooth operation
- Heavy-duty, pre-lubricated full-length chain, instead of half chain/half aircraft cable, for reliable operation and long life
- The tough, all-steel trolley with non-metallic glide surfaces has no metal-to-metal contact for smooth, efficient performance with a minimum of maintenance problems
- External "open" "close" limit adjustment for safety and ease of adjustment
- All the real power you need with Quantum's safer-by-design, direct drive high-efficiency motor with permanently lubed bearings and thermal overload protector
- Sleek, one-piece molded housing for quiet operation
- System design includes shock absorbing cushion arm to assure that door closes completely even if garage floor heaves in cold weather

SPECIFICATIONS

31 EQILION 101 10		
Models	3212	3213
HP	1/2	1/3
Volts	120v/60Hz	120v/60Hz
Quick-set Radio Controls with Rolling Access Codes	One	One
Wall Button	Yes	Yes
Quentum Lens Cover	Yes	Yes
Color	Black	Black
Head Weight	24.5 lbs.	23 lbs.
Dimensions		
Overall Dimensions	7 ft. @ 119 in.	8 ft. @ 131 in.
Over all Burners	9 ft. @ 149 in.	10 ft. @ 163 in.
	All Models	
Unit Weight (Rail and Head)	(7 ft.) 50.5 lbs. (8 ft.) 52.5 lbs. (9 ft.) 55.5 lbs. (10 ft.) 57.5 lbs.	(7 ft.) 48 lbs (8 ft.) 50 lbs. (9 ft.) 53 lbs. (10 ft.) 55 lbs.
Maximum Door Height	7 to 10 ft. heights available for all models (Door height to be specified by customer.)	
Door Width	For single or double residential garage doors.	
Minimum Clearance	2" all models	
Lifting Rate	7.2" per second all models	
Quantum Warranty	5 years limited	5 years limited



Wire to Other Unit Wire to Powerhead

(Follow Owner's Manual for all wiring instructions.)

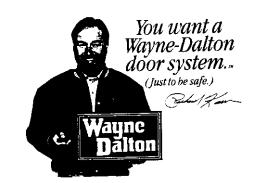


EXHIBIT 6 INSTRUCTION MANUAL

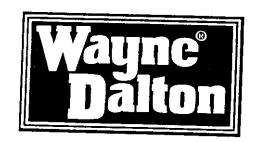
Intertek Testing Services NA Inc.

6.0 **Instruction Manual**

The Information to the User can be found on the "Read These Important Safety Rules Before Proceesing" page.

This manual will be provided to the end-user with each unit sold/leased in the United States.

FCC ID: FON02-5011 14



QUANTUM

OWNER INSTALLATION AND USER MANUAL Model No. 3000

Series 3312 & 3313

Automatic Garage Door Opener
For Sectional Overhead Residential Doors Only
DO NOT USE ON ONE PIECE DOORS

Before Starting Installation Read All Instructions Thoroughly to Familiarize Yourself with All Aspects of Installation and Adjustment!



DOOR OPENER WILL NOT OPERATE PROPERLY UNTIL BEAM SENSOR IS INSTALLED AND PROPERLY ADJUSTED! DO NOT OPERATE DOOR OPENER UNTIL FULLY INSTALLED, ADJUSTED & INSTRUCTED TO DO SO!

er en	CONTENTS
Door Tests 2 Safety Rules 3 Features 5 Before Starting 5 Pre-assembly Check 6 Attaching Motor Head 6 Installation Instructions 7 Optional Multi-Function Wall Station 9 Programming Radio Transmitter 13 Opening Travel Adjustment 14 Photoelectric Obstruction Test 15 Obstruction Sensing Test 15	Contact Obstruction Sensing Adjustment 16 Mechanical Lock Adjustment 16 Additional Safety Rules 17 Operation of Your Opener 18 Emergency Release Disconnect 19 Maintenance Schedule 19 Trouble Shooting 20 Parts Breakdown-Rail Assembly 21 Parts Breakdown-Motorhead Assembly 22

Door Tests Before Starting

Before you begin, complete the following two tests to insure that the door is balanced and working properly. A door that binds, sticks or is out of balance could cause severe injury. Do not attempt to compensate for an improperly adjusted door by the installation of an opener. This will interfere with the proper operation of the opener mechanism and/or may damage the door. Have a qualified service person make any needed adjustments or repairs to cables, spring assemblies and other hardware before proceeding with installation.

Door Test One

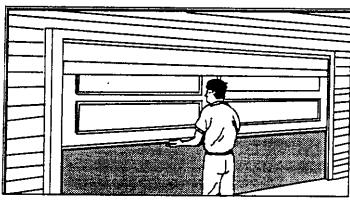
Raise and lower the door and check closely for any sticking or binding that occurs.

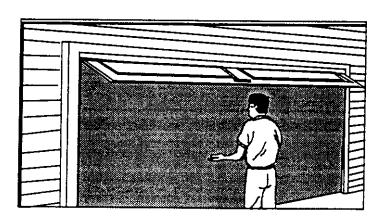
Lift the door approximately half way open, as illustrated. When releasing the door, it should stay in position. If spring pressure pulls the door further open or door weight pulls it further down, your door is not properly adjusted.

Door Test Two

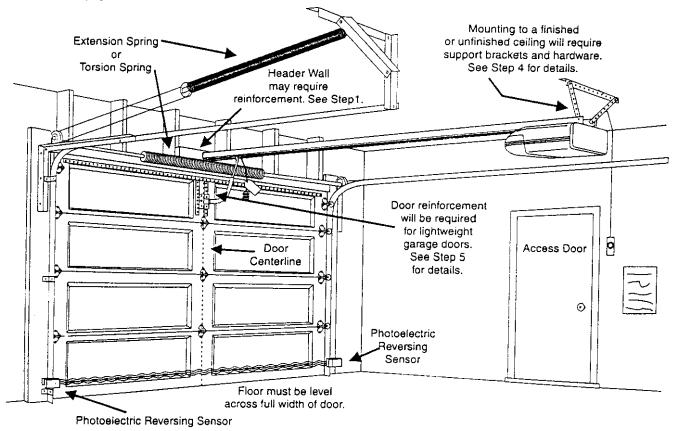
When properly installed, a door should remain clear of the opening, when allowed to rest at its natural, full open position.

If "door drift" pulls door back into opening or spring tension is not sufficient to pull door totally clear of opening, the door is not properly adjusted.





Before beginning, check out the door and garage area to see if any of the illustrated conditions apply to the installation.



Read These Important Safety Rules Before Proceeding



This symbol indicates caution and appears throughout this instruction manual. This garage door opener is designed and tested to offer reasonably safe operation if installation is followed in strict accordance with these safety instructions. Failure to comply with these instructions may result in serious personal injury or property damage.

IMPORTANT INSTALLATION INSTRUCTIONS WARNING: To reduce the risk of severe injury or death:



READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.



Install only on a property balanced garage door. An improperty balanced door could cause severe injury. Have a qualified service person make repairs to cables, spring assemblies and other hardware before installing opener.



To reduce the risk of injury to persons, use this operator only with sectional overhead doors.



Fiberglass, aluminum and steel doors must be reinforced to prevent damage to the door. Check with your garage door manufacturer for their recommendations.



Remove all ropes and remove or make inoperative all locks connected to the garage door before installing opener.



Do not use sensitivity adjustments to compensate for a poorly operating door. This will interfere with the proper operation of the safety reverse mechanism and may damage the door.



Locate control button: within sight of door, at a minimum height of 5 feet, so small children cannot reach it, and away from all moving parts of the door.



If possible, install door opener 7 feet or more above floor. Mount the emergency release knob 6 feet above the floor.



Do not connect opener to source of power until instructed to do so.



Installation and wiring must comply with local building and electrical codes. Connect the power cord to a properly grounded outlet. Do not remove round ground pin from power cord.



Install Entrapment Warning Label next to control button in a prominent location, such as the inside of the garage door, or as instructed in the installation instructions. If label adhesive will not adhere to the surface, secure the label by additional mechanical means such as staples, nails or screws. If necessary, use an intermediate mounting surface, such as plywood, cut to the appropriate size. Install Emergency Release tag to the emergency red cord.



After installing opener, the door must reverse when it contacts a 1 inch high solid test object on the floor.



Open door must not close and closing door must open if Photoelectric system is obstructed by 6" x 12" object, using test procedure described in Step 20.



Do not wear rings, watches or loose clothing when installing or servicing a garage door system. Use a sturdy, non-metallic step ladder.

AFTER INSTALLATION IS COMPLETE, FASTEN THIS MANUAL NEAR GARAGE DOOR.
PERFORM PERIODIC SAFETY CHECKS, MAINTENANCE AND ADJUSTMENTS, AS RECOMMENDED.

NOTE: 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. Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with RSS-210 of Industry Canada. 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.