

# Universal Radio Receiver Conversion Kit

with Programming Instructions for use with all brands of garage door openers

Do not install this system unless all garage door opener safety features are working properly. Garage door openers manufactured before 1982 should not be modified or repaired because they do not include all available safety features.

## READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

### ▲ WARNING



**Moving door can cause serious injury or death.**

- During programming, the Door Opener could begin to run. Stay away from moving

Door and its parts. To keep Door from moving, close Door and disconnect it from Opener by pulling Emergency Release Cord.

- Keep people clear of opening while door is moving.
- Do Not allow children to play with remote control or door opener.
- Do Not operate a door that is jammed or has a broken spring.

#### If safety reverse does not work properly:

- Close door / disconnect opener by pulling Emergency Release Cord.
- Do Not use remote control or door opener.
- Refer to Door and Door Opener Owner's Manuals or Instructions.



**Electrical shock can cause serious injury or death.**

- Power cord must be unplugged before attaching any wires.

- Be sure wire ends do not touch each other or other terminals.

## Customer Information

Thank you for purchasing a Universal Radio Receiver Conversion Kit. With a Rolling Code system you can be confident that you're equipping your garage door opener with the best possible defense against the threat of code grabbers.

We've broken the installation process into easy-to-follow steps. If at any time during the installation process you have questions, please call the Customer Service department at 1-800-354-3643.

If you would like to have an Authorized Dealer install your Kit, you can call the dealer referral number at 1-800-654-3643.

Changes or modifications not expressly approved by the manufacturer could void the user's warranty.

## Step 1 Getting Started FIGURE 1

### Pre-Installation

The installation process for your Universal Radio Receiver Conversion Kit will vary slightly depending upon your opener's radio system.

#### ▲ WARNING

Power cord must be unplugged before attaching any wires.

Be sure wire ends do not touch each other or other terminals.

If your opener is equipped with a Wireless Keypad or you use other access devices such as a mini-remote control, the batteries must be removed from these devices as well.

- A Unplug, or open the breaker that supplies power to the garage door opener.

WHICH DO YOU HAVE, AN INTERNAL OR EXTERNAL RADIO?

- B For openers with internal radios.
  - REMOVE batteries from all old remote controls.
- C For openers with external radios.
  - Disconnect the existing external radio receiver from the garage door opener.

## Step 2 Mounting the Universal Receiver FIGURE 2

Position the receiver on the ceiling above and in front of the opener (between the opener and the garage door) so that the receiver is at least 2 feet from the opener.

- B Mount Receiver using two pan head screws.

#### NOTE

Do not attach the Receiver to the garage door opener's mounting hardware. Attaching the Receiver to the mounting bracket or other metal surfaces could cause interference or grounding.

#### NOTE

Do not remove the circuit board.

## Step 3 Connecting Receiver to Door Opener FIGURE 3

- A Cut wire; enough to run from the garage door opener terminal strip to the Receiver.
  - The location of the terminal strip varies from model to model. It may be located on the back, front or sides of the opener or underneath the light lens. If you cannot locate the terminal strip, please refer to the Owner's Manual of your opener or contact the manufacturer of the opener.

- B Strip and route wires.
  - Remove 1/2" of insulation from the garage door opener end of the wire.
  - Remove 1/4" of insulation from the Receiver end of the wire.
  - Route wire from Receiver to garage door opener terminal strip making sure the wire is clear of all moving parts of the door and door hardware.
  - Staple wire in place.

#### NOTE

Drive staples just tight enough to hold the wire. Staples driven too tightly can short circuit the wiring.

- C Wire the receiver.
  - Connect the STRIPED Wire to "WALLBUTTON" terminal on the Receiver.
  - Connect the WHITE Wire to "COMMON" terminal on the Receiver. (Do not tighten screw yet. Another wire will be added later).
- D Wire the garage door opener.
  - Follow existing wires from Wall Button to terminal strip on the door opener.
  - Connect the WHITE Wire to one of the Wall Button terminals.
  - Connect the STRIPED Wire to the other Wall Button terminal.

## Step 4 Connecting Receiver to Transformer FIGURE 3

#### ▲ CAUTION

Be sure wire ends do not touch each other or other terminals.

- A Cut wire; enough to run from Receiver to transformer.
- B Strip and route wires.
  - Remove 1/2" of insulation from the transformer end of the wire.
  - Remove 1/4" of insulation from the Receiver end of the wire.
  - Route wire from Receiver to transformer, making sure wire is clear of all moving parts of the door and door hardware.
  - Staple wire in place.

#### NOTE

Drive staples just tight enough to hold the wire. Staples driven too tightly can short circuit the wiring.

- C Wire the Receiver.
  - Connect STRIPED Wire to "POWER" terminal.
  - Connect WHITE Wire to "COMMON" terminal.
  - Now tighten the screw.
- D Wire the transformer.
  - Connect the STRIPED Wire to either terminal.
  - Connect the WHITE Wire to the other terminal.

## NOTE

It does not matter which wire is connected to which terminal.

- E** Connect to power source
- Plug in the garage door opener.
  - Plug in the transformer.

Your system is now ready to program.

## Step 5 Programming the Receiver FIGURE 4

### ▲ WARNING

**During programming, the Door Opener could begin to run.** Stay away from moving Door and its parts. To keep Door from moving, close Door using the wall button and disconnect it from Opener by pulling Emergency Release Cord (see Owner's Manual).

- A** Locate Learn Code Button and Learn Code Indicator LED on the side of receiver.
- B** Press and release Learn Code Button.
- Indicator LED will blink about 2 times per second.
- C** Press transmitter button once within 30 seconds.
- Indicator LED stays on.
- D** Press the same transmitter button again within 30 seconds to set Code.
- Indicator LED turns off.
- E** Press transmitter button again.
- Door should move.
- F** Press transmitter button again.
- Door should stop.

## NOTE

If you do not perform steps C and D quickly enough, the LED will begin flashing rapidly. Begin programming again at Step B.

## NOTE

If the Receiver does not respond properly at any time during programming, check the wiring and connections between the Receiver and transformer.

## NOTE

If door opener does not respond properly, check wiring and connections between Receiver and Opener.

- G** Repeat Steps 5A through 5G for each Transmitter, Wireless Keypad or other access device to be learned.

## Step 6 Connecting Receiver to Transformer FIGURE 6

### NOTE

After successfully programming the receiver and all transmitters, engage the garage door. (See Owner's Manual for instructions.)

- A** Point Transmitter toward opener and press button.
- Door moves.
- B** Press Transmitter button again.
- Door will stop moving.
- C** Press Transmitter button again.
- Door will move in opposite direction. The door will stop automatically at the fully open and fully closed positions.

### ABOUT DUAL FREQUENCY REMOTE TRANSMITTERS

Your garage door opener (GDO) features a unique dual frequency remote control system for reliable service in today's crowded airwaves. Over-crowded airwaves may intermittently interfere with GDO's remote control system. The dual frequency feature greatly reduces the possibility of unwanted interference.

The receiver in the GDO's powerhead can receive signals at 315 AND 390 MHz. The remote is factory set at 315 MHz. See Figure 6 for frequency selector switch settings.

#### Switch your remote control frequency when:

- Remote does not have adequate range.
- Remote works inconsistently with fresh battery installed - LED feedback lights up when pressing button.
- Programming your car's HomeLink® system. (This GDO is HomeLink® compatible.)

#### To program a HomeLink® device:

- Switch the frequency selector to 390 MHz.
- Follow the HomeLink® instructions in your car owner's manual.
- Reset the remote control frequency to 315 MHz for everyday use.

### ▲ WARNING

TEST CONTACT REVERSE SYSTEM of your door opener. See your door opener Owner's Manual for the procedure.

## Step 7 Disabling the Old Radio System FIGURE 5

**FOR ADDITIONAL SECURITY YOU MUST NOW DISABLE THE OLD RADIO SYSTEM.**

- A** Throw away all old remote controls, wireless keypad and other access devices.
- Make sure batteries have been removed.
- B** For garage door openers with internal radios.
- Cut off antenna.
    - Most antennas are thin pieces of wire hanging from the opener. Some are thin strips of metal. If you can't find the antenna, see your Opener's Owner's Manual or contact the manufacturer.
  - Change code settings.
    - Locate the code switches.
    - If they are not obvious, check inside the Light Lens.
  - Change the combination of up and down switches in the garage door opener.

## NOTE

It is essential that you also change the code settings in case someone may have copied your code.

*Instead of switches some garage door openers had a series of numbered holes with a small strand of metal or wire running across the hole called "punch outs." To change the code you simply break one or two additional punch outs in the garage door opener.*

*Some garage door openers have no code switches or punch outs. If you are unable to locate the settings or cannot change them, refer to your Opener's Owner's Manual or contact the manufacturer of your opener.*

- C** For garage door openers with external radios.
- Remove existing radio receiver.
  - Throw away existing external radio receiver.

## Step 8 Erasing Receiver Memory

### ▲ WARNING

**During programming, the Door Opener could begin to run.** Stay away from moving Door and its parts. To keep Door from moving, close Door using the wall button and disconnect it from Opener by pulling Emergency Release Cord (see Owner's Manual).

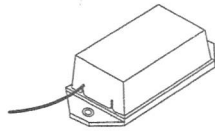
**If a Transmitter becomes lost or stolen or you want to delete a Transmitter, Wireless Keypad or other access device:**

- A** For Battery Replacement.
- Press and hold Learn Code Button for 10 seconds or until Learn Code Indicator LED goes out.
- All Transmitter Codes are erased from memory.
- B** Reprogram Receiver with remaining Transmitters.
- Follow Step 5.

## Step 9 Battery / Visor Clip Installation FIGURE 6

- Gently pry off back of transmitter case. Take care when opening. The frequency selector switch is held in place only by the case.
    - Use a ball point pen, coin or small screwdriver.
  - Remove old battery and install new battery of the same type in same position.
  - Press the halves of the transmitter together until it snaps closed.
- B** Attach Visor Clip to Transmitter.
- For Compact transmitters Slide Visor Clip onto back of docking station until it snaps into place.
  - For Large transmitters Slide Visor Clip onto back of transmitter until it snaps into place.

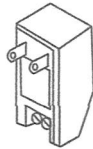
**PARTS IDENTIFICATION**  
**IDENTIFICACION DE PIEZAS**  
**IDENTIFICATION DES PIÈCES**



Universal Receiver  
 Receptor Universal  
 Récepteur universel



Pan Head Screw (No. 10 x 1")  
 Tornillo  
 Vis à tête cylindrique (N° 10 x 1 po)



Transformer  
 Transformador  
 Transformateur



2-Conductor Wire  
 Conductor de 2 alambros  
 2 fils conducteurs



Insulated Staple  
 Grapas  
 Agrafes isolées



Remote Control  
 Control Remoto  
 Télécommande

**THE TOOLS YOU WILL NEED**  
**LAS HERRAMIENTAS QUE NECESITARA USTED**  
**VOUS AUREZ BESOIN DES OUTILS SUIVANTS**



Slotted Screw Driver  
 Distornillador estándar  
 Tournevis Phillips fendu



Wire Strippers  
 Pelacables  
 Dénudeurs



Hammer  
 Marillo  
 Marteau



Phillips Screwdriver  
 Distornillador Phillips  
 Tournevis à tête Phillips

**EXTERNAL RADIOS**  
**RADIOS EXTERNOS**  
**RADIOS EXTERNE**

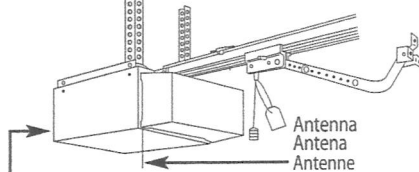
The appearance of the external radio varies by model. Yours may look like any of these:

La apariencia del radio externo varía según el modelo. El suyo puede parecerse a uno de estos.

L'apparence de la radio externe varie selon le modèle. La vôtre peut ressembler à l'un des modèles suivants :



**FIGURE 1**  
**FIGURA 1**  
**FIGURE 1**

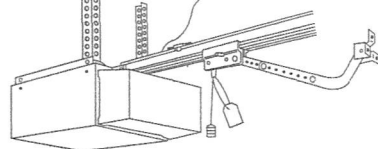


Code Switches (location varies by model)  
 Interruptors de código  
 Interrupteurs de code (emplacement varie en fonction du modèle)

Terminal Strip (location varies by model)  
 Regleta de terminales  
 Bornier (varie en fonction du modèle)

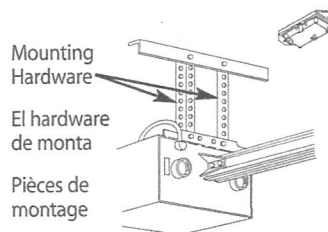
INTERNAL  
 Interno  
 Interne

External Radio Receiver  
 Receptor externo de radio  
 Récepteur radio externe



EXTERNAL  
 Externo  
 Externe

**FIGURE 2**  
**FIGURA 2**  
**FIGURE 2**

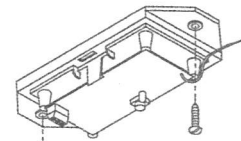


Mounting Hardware

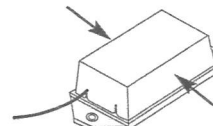
El hardware de monta

Pièces de montage

2A



2B

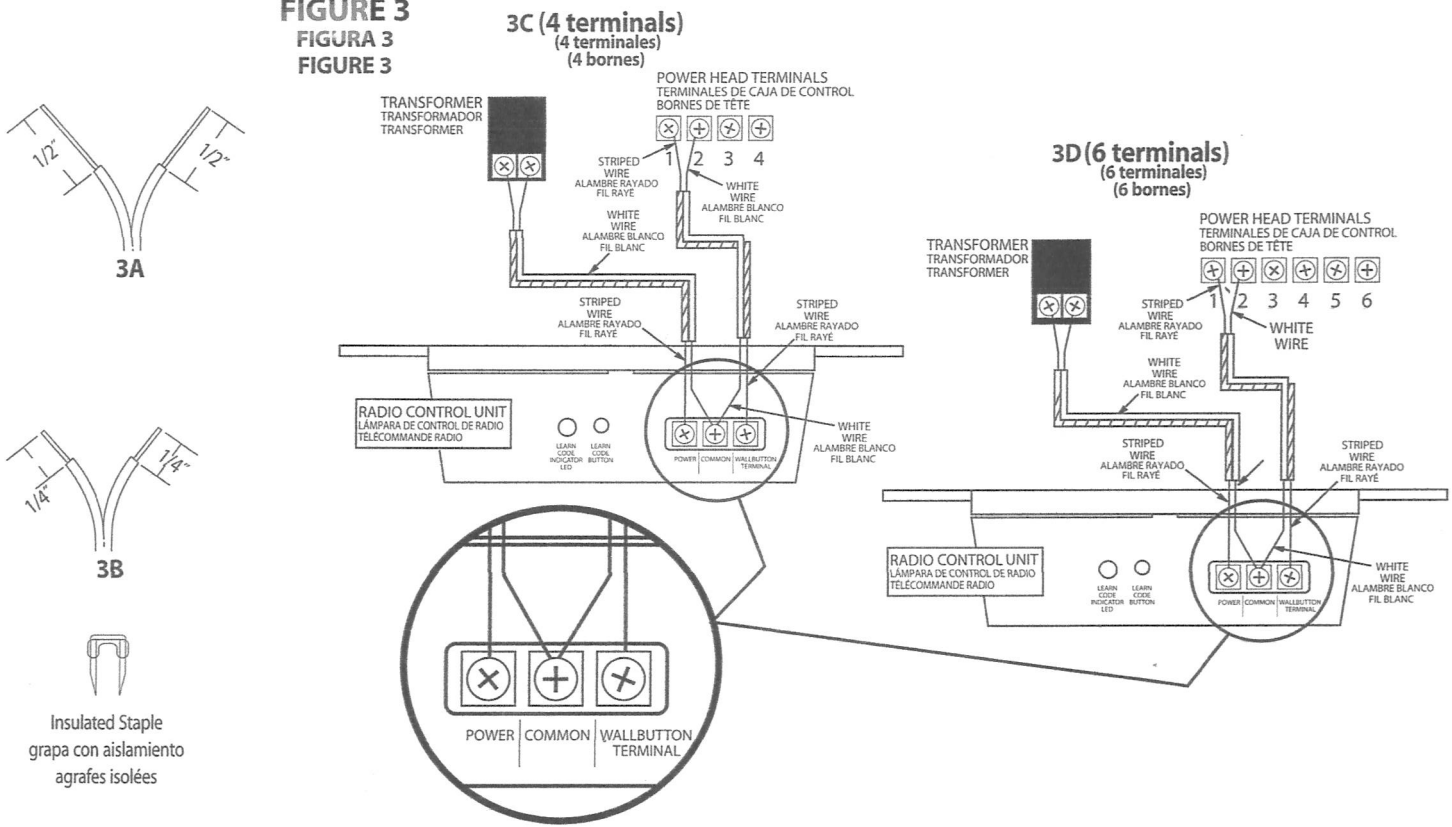


2C

Pan Head Screw (No. 10 x 1")  
 Tornillo de panhead  
 Vis à tête cylindrique

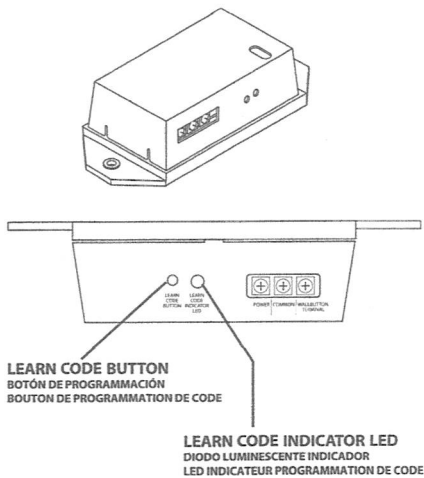
**FIGURE 3**

**FIGURA 3**  
**FIGURE 3**



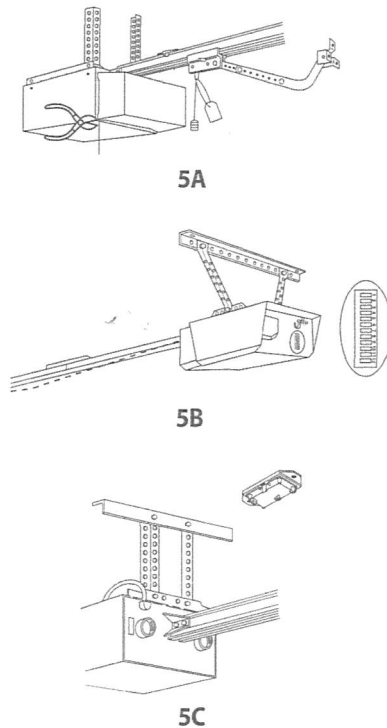
**FIGURE 4**

**FIGURA 4**  
**FIGURE 4**



**FIGURE 5**

**FIGURA 5**  
**FIGURE 5**



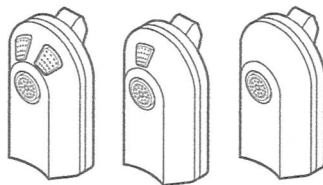
**FIGURE 6**

**FIGURA 6**  
**FIGURE 6**

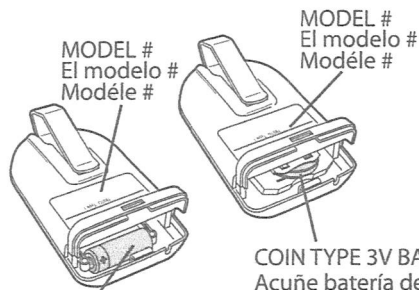


### SPECIAL NOTE

If you have a Remote Transmitter  
(or Transmitters)  
that look(s) like one of these—



they may not work reliably with this Radio Receiver as some operate on a wider band width from the newest transmitters. To work properly, your remote **must use the coin type battery** and carry a Model # beginning with "TSBTG" or "TSBTO."



CYLINDRICAL 12V BATTERY  
Batería 12V cilíndrica  
Cylindrique 12V Pile

COIN TYPE 3V BATTERY  
Acuña batería de tipo 3V  
Inventer le type 3V pile

### NOTA ESPECIAL

Si usted tiene un transmisor remoto (o los transmisores) que mirada (las miradas) quiere uno de éstos — ellos no puede trabajar seguramente con este Receptor de Radio como algún operar en una anchura más ancha de la banda de los trabajar apropiadamente, su telemando debe utilizar la batería de tipo moneda y llevar un modelo # empezando con "TSBTG" o "TSBTO."

### REMARQUE SPECIALE

Si vous avez un émetteur éloigné (ou les émetteurs) qui le regard (les regards) aime un de ceux-ci — ils ne peut pas travailler fiablement avec ce Récepteur de Radio comme quelques-uns fonctionnent sur une largeur de bande plus large des plus nouveaux émetteurs. Pour travailler convenablement, votre éloigné doit utiliser la pile de type de pièce et porte un modèle # commençant avec "TSBTG" ou "TSBTO."

### NOTE

#### FCC and IC CERTIFIED

This device complies with FCC Part 15 and RSS 210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Any changes or modifications to this equipment not specifically approved by the manufacturer 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 the receiver.
- Connect the equipment into an outlet on a circuit that is different from the circuit on which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IF YOU HAVE ANY PROBLEMS OR QUESTIONS  
PLEASE CALL CUSTOMER SERVICE  
AT 1-800-354-3643.

**SAVE THESE  
INSTRUCTIONS**

SI USTED TUVIERA ALGÚN PROBLEMA  
O PREGUNTA POR FAVOR LLAME AL  
DEPARTAMENTO DE SERVICIO AL  
CLIENTE AL No. 1-800-354-3643.

**GUARDE ESTAS  
INSTRUCCIONES**

VEUILLEZ ADRESSER VOS PROBLÈMES  
OU QUESTIONS  
AU SERVICE CLIENTÈLE 1-800-354-3643.

**CONSERVER CES  
INSTRUCTIONS**