CHAIN DRIVE CONTROL BOARD - WITH SECURE CODE™ REPLACEMENT INSTRUCTIONS

⚠ WARNING:

- DISCONNECT POWER BY REMOVING ELECTRICAL PLUG OR FUSE BEFORE ANY INSTALLATION OR REPAIR.
- WEAR SAFETY GLASSES.

A. Disconnect control wires from screw terminals on back of opener. Unplug obstruction sensor from 2-prong plug. Loosen the four wrapper cover screws and remove cover from opener. See Fig. 1.

B. Limit actuator knobs will pull off of actuator shafts when cover is removed. Remove limit knobs from cover by squeezing plastic tabs on side of limit knobs. See Fig. 2.

C. Remove the four circuit board screws and ground wire screw (if present). Carefully disconnect the electrical connector and remove control board. See Fig. 3.

FIG. 1

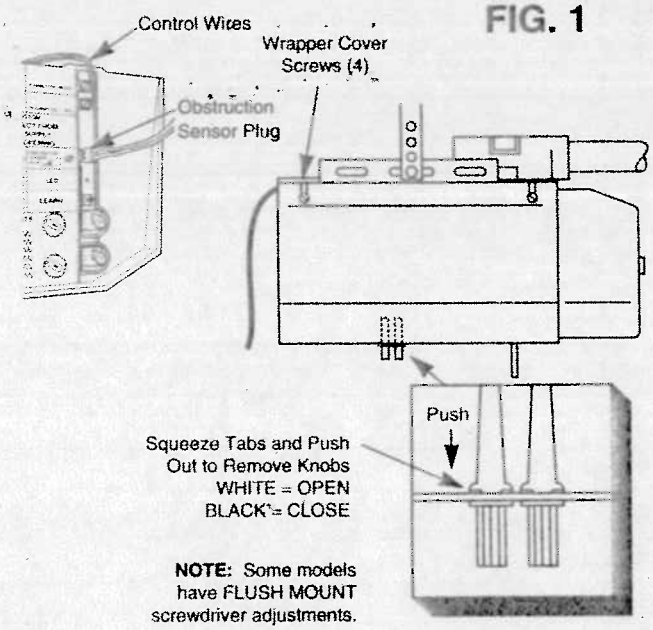


FIG. 2

TO REPLACE THE CONTROL BOARD IN OPENER:

A. Connect electrical connector to new control board.

B. Install and tighten the four (4) screws that secure the control board. **NOTE:** Make certain that the metal leaf is positioned between the two plastic posts that protrude through the cut-out slot in the control board. Secure the ground wire (if present) to the frame with the screw.

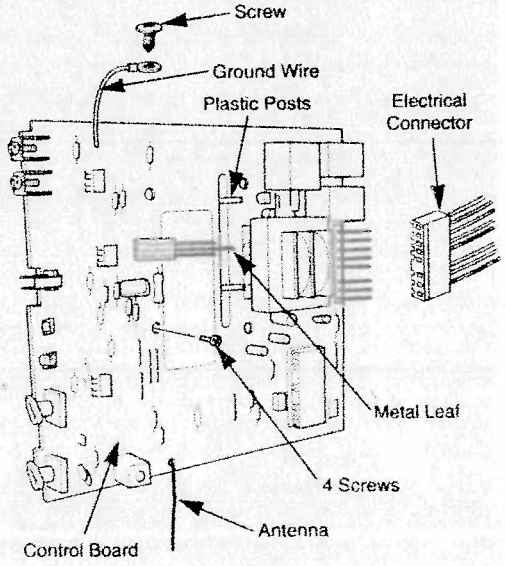
C. Replace the wrapper cover on opener. Make sure that antenna is inserted and pulled through hole in wrapper cover. Tighten the four cover screws.

D. Reinstall limit actuator knobs by centering on actuator shafts and pushing in on knobs until they click and lock into position. Place the white knob on the open actuator and the black knob on the close actuator.

E. Reconnect control wires to screw terminals and plug obstruction sensor into 2-prong plug.

F. Refer to **"Radio Coding Instructions"** to set proper radio codes (next page).

FIG. 3



NOTE: CONTROL BOARD ILLUSTRATION MAY VARY.

Adjustments

Connect power unit to a properly-grounded, 3-prong, 120 volt, 60 Hz outlet.

ENGAGE TRAVELER DETENT

A. Pull the manual disconnect straight down and allow mechanism to engage in slot.

B. Manually move door until traveler engages with traveler latch.

CAUTION: THE OPENER WILL OPERATE DURING THE FOLLOWING STEPS. INSURE NOTHING IS IN THE PATH OF DOOR BEFORE PROCEEDING.

NOTE: This operator is equipped with a thermal protector in the motor circuit. If during the following steps the unit shuts off and will not restart, wait 5-10 minutes for the motor to cool down, then continue adjustment.

Push the transmitter button once. Keep the door pathway clear of obstructions. The door should begin to close and stop before reaching the floor. If it does not, refer to the transmitter coding instructions on previous page then return to this section. If the door begins to close then reverses and opens with the lights on the opener blinking, either the beam sensor or safety edge is not properly connected or aligned, or the **close** and **open force** adjustments must be increased.

NOTE: If the door is closing and an object passes between the sending unit and receiving unit of the beam sensor (if used), or the edge sensor (if used) is activated, the door will reverse and open with the opener lights blinking.

Open and Close Force Adjustments

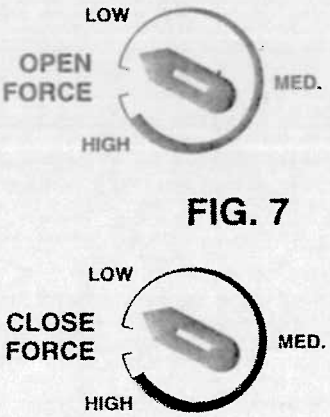


FIG. 7

The open and close force adjustments located on the rear of the opener select the amount of force the power unit applies to open and close the garage door. See Fig. 7. These dials must be turned slowly in small increments to insure the minimum amount of force is used to open and close your door. Beginning at low, turn force dials (1/10 turn at a time) clockwise to increase door force until door can be cycled between the "factory set" open and close positions. **Severe damage to your door, door opener or personnel may occur unless this procedure is followed.**

Obstruction Testing

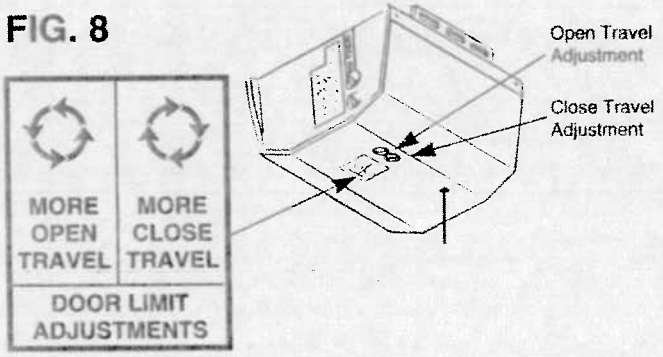
Once the door can be cycled partially open and closed without the system either stopping or reversing with the opener lights blinking, activate the door in the closed direction. While it is closing extend your hands under the bottom edge of the door and try to stop it. (The use of gloves is suggested.) **Do not stand in pathway of door.** The door should reverse off of your hands and begin to open with minimum force. If it does not reverse, or if the force is excessive, decrease the close force until a lower level is selected.

Once the close force is properly adjusted, activate the door to open and try to stop it with your hands. The door should stop (not reverse) with minimum force otherwise the open force must be decreased until a lower force is selected.

Close Travel Adjustment (Small Black Knob)

Push the transmitter button until the door closes and automatically stops before reaching the floor. Locate the small black close travel adjustment knob on the bottom of the power unit. See Fig. 8. Slowly turn this knob in the direction of the arrow (more close travel). The door should "inch" its way closed. Repeat inching the door closed until it reaches the floor. Continue to turn the knob until the door is secure against the floor with the tube slightly bowed. If the door reverses off of the floor and opens, turn the knob slightly (1/4 turn at a time) in the opposite direction of the arrow and cycle the door again until the door is securely closed without reversing off of the floor.

FIG. 8



Entrapment Test

WARNING: SEVERE DAMAGE TO DOOR, DOOR OPENER OR PERSONNEL MAY OCCUR IF THE CLOSE FORCE ADJUSTMENT IS SET TOO HIGH FOR CONDUCTING THE FOLLOWING TEST.

Some doors require additional reinforcement to prevent damage. Contact your local garage door dealer before operating opener if you are unsure if your door requires additional support.

With the door open, place a 1-1/2 inch object (or a 2 x 4 board laid flat) under the door opening. Activate the door in closed direction. The door should contact the object then reverse and open. If the door simply stops and does not reverse, turn the black close travel adjustment knob 1/4 turn in the direction of the arrow (more close travel) and test again. Repeat this procedure until the door reverses off of the 1-1/2 inch object and opens but can be closed securely against the floor without reversing.

NOTE: The tube acts as a shock absorber during the opening and closing of your garage door. When the door is fully closed, there will be some tube bowing. This bowing minimizes the stress on the door and door hardware. See Fig. 9.

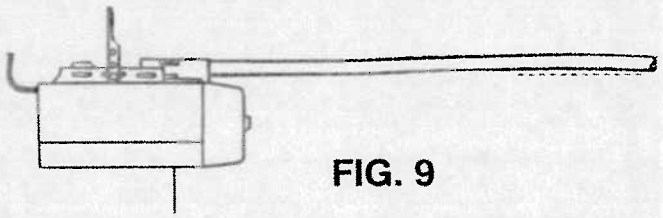


FIG. 9

NOTE: If door fails to reverse off object, discontinue use and contact the Stanley Customer Service Department.

Open Travel Adjustment (Small White Knob)

Activate power unit until the door opens and automatically stops. Locate the small white open travel adjustment knob on the bottom of the power unit. Slowly turn this knob in the direction of the arrow (more open travel). The door will "inch" its way open. Continue to turn this knob until the desired open position is selected. Do not force the door open any further than its natural open position. This may cause excessive strain on the door or door opener.

OBSTRUCTION SENSOR TESTING

Push the hand-held transmitter to close the door. While the door is closing, test the beam sensor (if used) by obstructing the invisible beam. When obstructed, the red alignment light on the receiving unit should turn off. The closing door should stop, pause two seconds, then reverse and begin opening. The lights on the door opener should flash.

Obstructing the beam while the door is opening will have no effect.

If an edge sensor is used instead of a beam sensor, it should function in the same manner.

Radio Coding Instructions

WARNING: KEEP TRANSMITTERS OUT OF THE REACH OF CHILDREN AT ALL TIMES. THE DOOR MAY OPERATE DURING THE NEXT STEPS. KEEP DOOR PATHWAY CLEAR.

1, 2 OR 4 BUTTON TRANSMITTERS

Before each hand held transmitter will operate, the power unit must "LEARN" the code each is sending. Simply follow the next steps to code each transmitter to operate your garage door opener power unit.

TWO BUTTON TRANSMITTER EXAMPLE SHOWN

A. Press and release the LEARN button located on the rear of the power unit. The red LED indicator above the LEARN button and lights on the power unit will come on, indicating the power unit is now in the LEARN mode. See Figure 4.

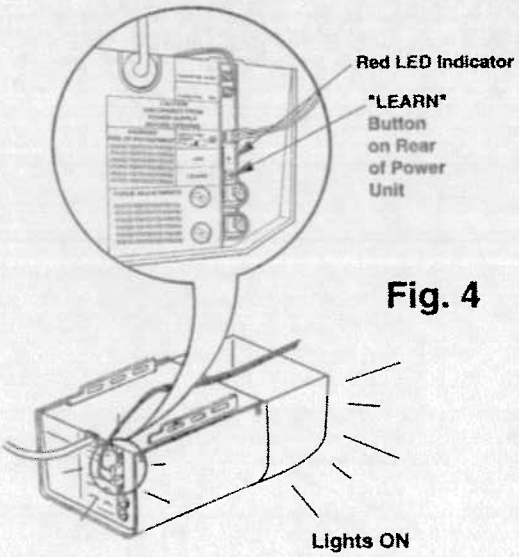


Fig. 4

B. Locate ONE of the transmitters, then while standing near the back of the power unit, press the button on the transmitter you wish to use to operate the garage door. The lights will blink two times, then turn off. See Figure 5.

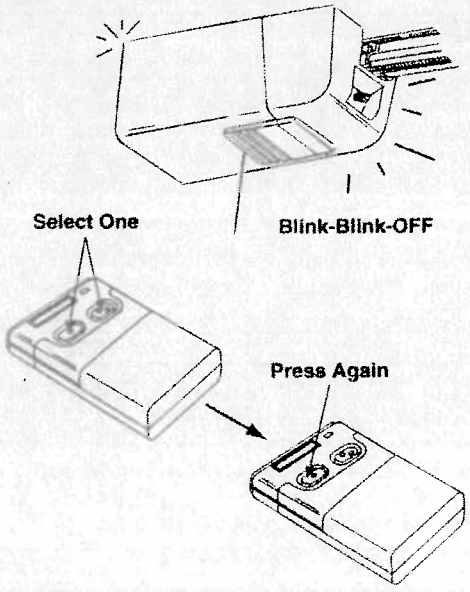
C. Press this SAME button on the transmitter again. This will activate the door opener.

D. The power unit must LEARN each transmitter separately. To code additional transmitters, simply repeat steps A through C for each transmitter.

E. If you get confused or out of sequence, just wait 30 seconds. The light will turn off ending the LEARN mode and allowing you to start over.

F. If you HOLD the LEARN button on the rear of the power unit for 10 seconds, the lights will blink six (6) times then turn off. ALL codes will be erased. See Figure 6.

Fig. 5



LIGHT CONTROL

If you program a second button on the same transmitter to the same door opener by repeating steps A through C, it can be used to turn the power unit lights ON and OFF as long as the door is not moving.

Fig. 6