SAFE-T-BEAM® SYSTEM INSTALLATION

⚠ WARNING

There should be no electrical power to the operator while installing Safe-T-System® wires.
DISCONNECT POWER NOW.

NOTE: The Operator will not close the door automatically unless the Safe-T-Beam® System is installed.

1. **Mounting brackets.**
   - Mark inside of garage door frame or wall at 5" above floor.
     > On both left and right side of door **(Fig. 1)**.
   - Hold bracket against door frame or wall
     > Check that brackets extend out from wall so that tongue is beyond door, tracks, and any other door hardware.
     > If not:
       - STB bracket extensions are available at local dealer. (Blocks of wood, etc. may be substituted for extensions.)
   - Center bracket on your mark **(Fig. 2)**.
   - Fasten each bracket with 2 screws.

   | screw
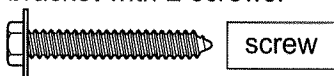
NOTE: Mounting brackets can be attached to masonry or the floor using concrete anchors (not provided).

2. **Mounting STB Source and Sensor.**
   - **If garage has only one garage door.**
     > Determine which side of garage receives most direct sunlight **(Fig. 4)**.
     > Red LED should always be on sunny side whenever possible **(Fig. 4)**.
   - **For multiple doors.**
     > Place Source (Red LED) and Sensor (Green LED) modules on adjacent doors facing in opposite directions **(Fig. 4)**.

NOTE: To help prevent interference from the sun, STB modules may be placed further away from the door opening where they will spend more time in shadows.

   - Slide Source/Sensor onto tongue of bracket until it clicks into place **(Fig. 3)**.

3. **Wiring**
   - If existing **wiring** is **not defective, do not replace.**
   - If wiring requires replacement, use only insulated staples when attaching wire to walls and woodwork.
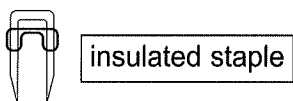
   | insulated staple

⚠ CAUTION

Staples which are too tight can pinch wires. Cut or pinched wires can cause the "STB" System to stop working. When using the insulated staples, make sure you fasten them only as tightly as needed to hold the wire snuggly. DO NOT USE NON-INSULATED STAPLES.
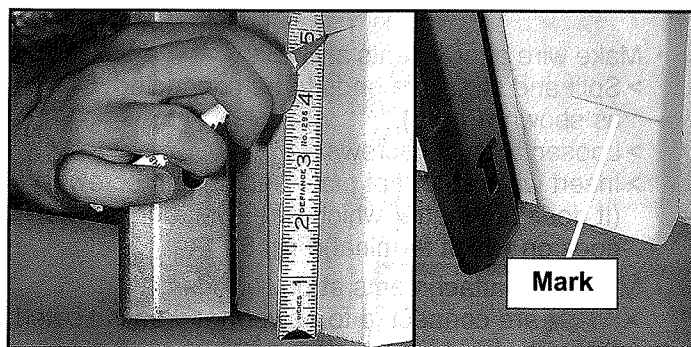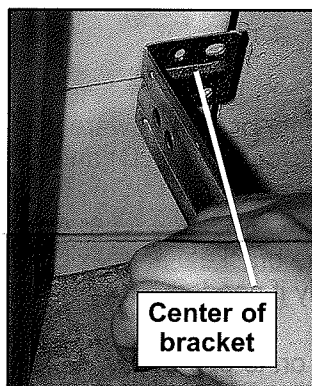

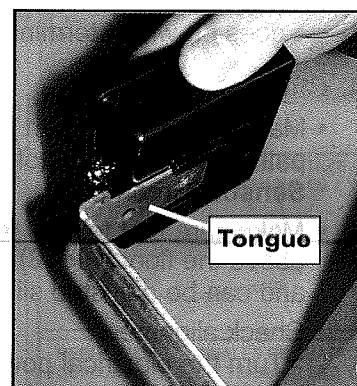**FIG. 1   Mark door frame**

FIG. 2   Mount brackets

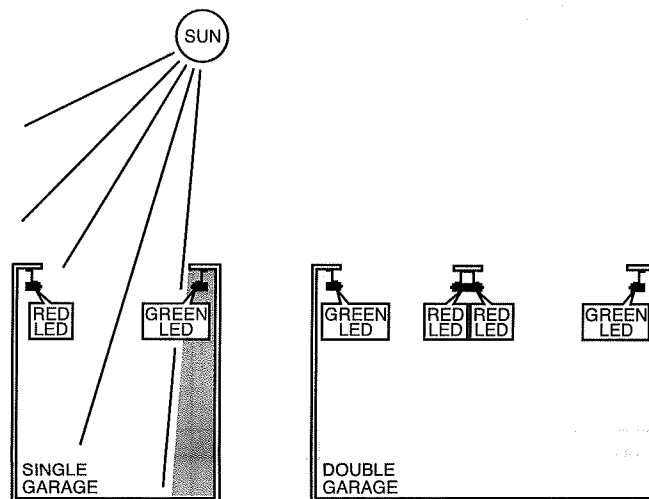**FIG. 3   Attaching STB's to brackets**
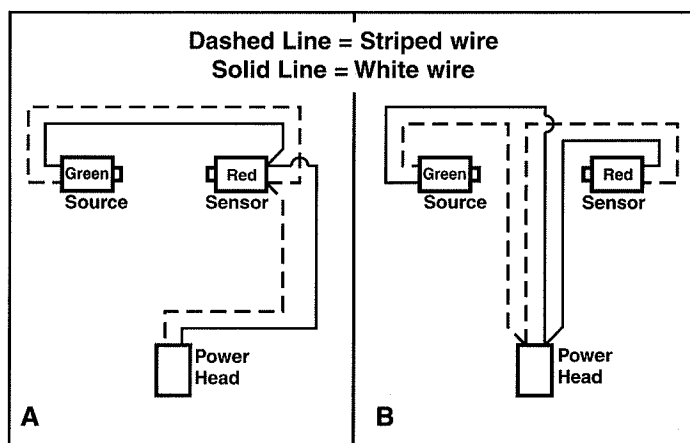

FIG. 4   Sun field

FIG. 5   Wiring methods

- Make wire attachments at STB's
  - > Split and strip wire ends to be connected as shown **(Fig. 5)**.
  - > Loosen terminal screws.
  - > Insert wire under flat plate and tighten screw. (It does not matter which wire, white or striped, goes on which terminal)**(Fig. 6)**.
- Make wire attachments at power head.
  - > STB's are connected to power head as indicated. **(Fig. 7)**.
  - > Insert wire under flat plate and tighten screw. (It does not matter which wire, white or striped, goes on which terminal)**(Fig. 6)**.

4. Checks

- Make sure that no part of door or its hardware is in path between lenses of **Source** (Red LED) and **Sensor** (Green LED).
- Make sure that tops of lenses are between 5"-6" above the floor **(Fig. 8)**. The brackets are flexible, and can be adjusted slightly if needed.
- Check alignment
  - > Turn the electrical power on to operator.
  - > If the STB's are not in proper alignment, the Red LED (Source) will blink continuously. To correct the problem you can adjust either bracket slightly to bring the system into alignment.
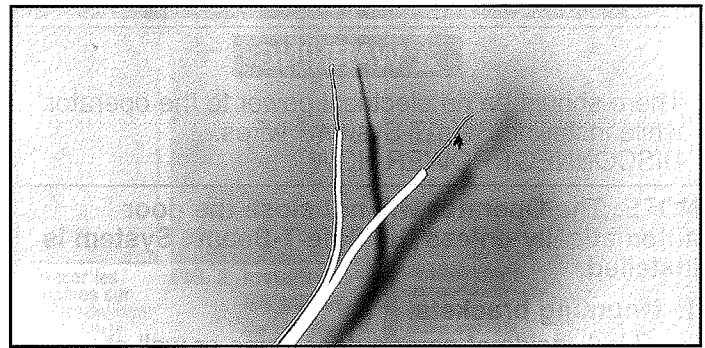 - > When the STB's are in alignment the Red LED will stop blinking and stay on.
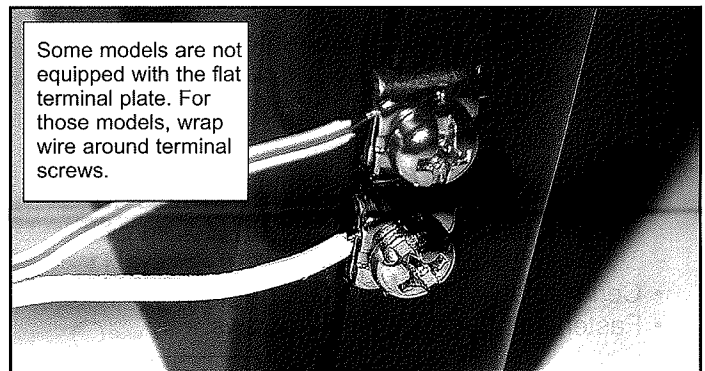

FIG. 5   Splitting and stripping

Some models are not equipped with the flat terminal plate. For those models, wrap wire around terminal screws.

FIG. 6   Terminal attachments at STB

SELF-DIAGNOSTIC STB SYSTEM TROUBLESHOOTING

SOURCE RED LED	SENSOR GREEN LED	INDICATED CONDITION	REQUIRED ACTION
● ON	● ON	NORMAL OPERATION	NONE REQUIRED
○ OFF	○ OFF	1. POWER HEAD NOT POWERED 2. WIRING FROM POWER HEAD BAD	1. CHECK BREAKERS, FUSES, PLUGS 2. CHECK WIRING FOR OBVIOUS SHORTS
○ OFF	● ON	1. WIRING TO SOURCE MISSING OR BAD 2. POWER HAS BEEN INTERRUPTED	1. CHECK WIRING 2. REMOVE POWER AND REAPPLY
●●○ 2 BLINKS, PAUSE (REPEAT)	● ON	1. BEAM NOT ALIGNED 2. BEAM OBSTRUCTED 3. SENSOR DEFECTIVE	1. CHECK ALIGNMENT 2. CHECK FOR OBSTRUCTION 3. CALL CUST. SERV.
●●○ 2 BLINKS, PAUSE (REPEAT)	○ OFF	1. WIRE TO SENSOR MISSING OR BAD 2. SENSOR DEFECTIVE	1. CHECK WIRING 2. CALL CUST. SERV.
●●●○ 3 BLINKS, PAUSE (REPEAT)	● ON	1. SENSOR RECEIVING INTERFERENCE	1. ATTEMPT TO DETERMINE SOURCE OF INTERFERENCE 2. CALL CUST. SERV.
●●●●○ 4 BLINKS, PAUSE (REPEAT)	● ON	1. SOURCE NOT SENDING PULSES 2. SOURCE DEFECTIVE	1. CALL CUST. SERV. 2. CALL CUST. SERV.

NOTE: If a problem exists with the "STB" that is preventing the door from closing, the door can be closed by holding the wall control button in until the door is fully closed. (The remote control will not work.)
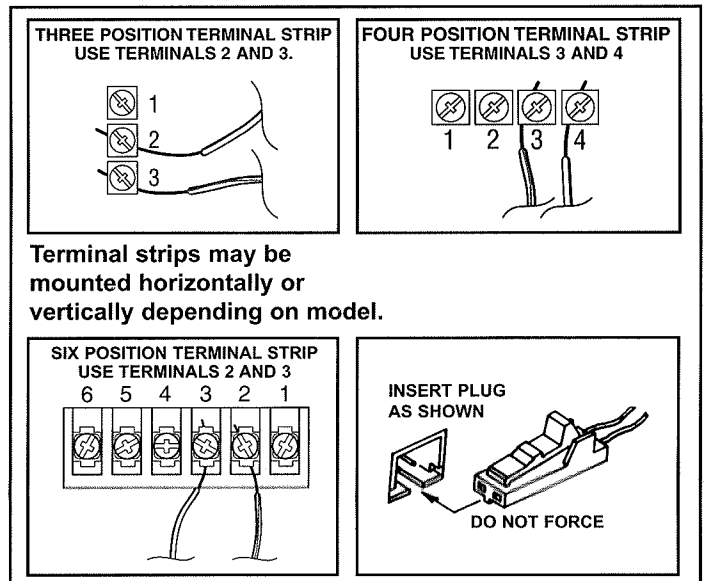
www.DEKCanada.com

THREE POSITION TERMINAL STRIP USE TERMINALS 2 AND 3.	FOUR POSITION TERMINAL STRIP USE TERMINALS 3 AND 4

Terminal strips may be mounted horizontally or vertically depending on model.

SIX POSITION TERMINAL STRIP USE TERMINALS 2 AND 3
6 5 4 3 2 1

INSERT PLUG AS SHOWN

DO NOT FORCE

FIG. 7   Terminal attachments at Power Head

Top edge of lens between 5" - 6" above floor.

Top of lens

FIG. 8   Check lens height