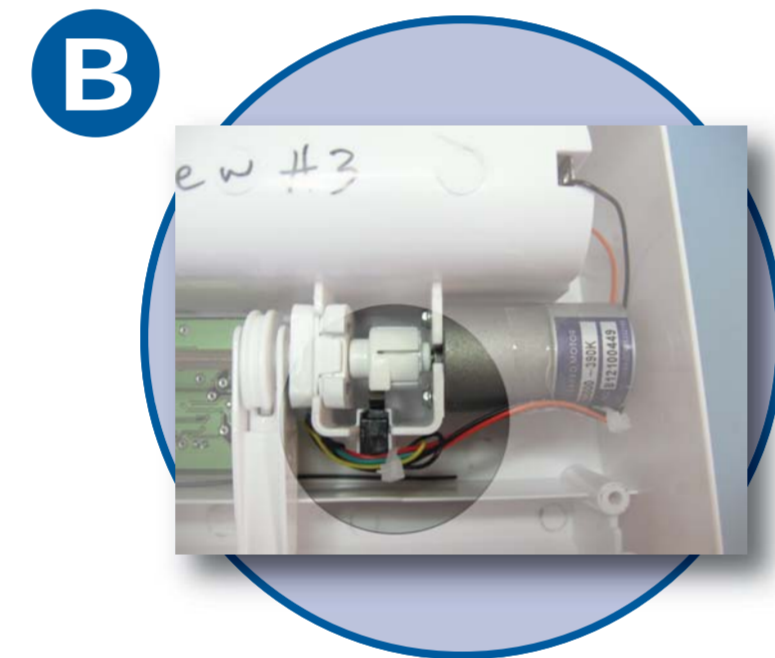
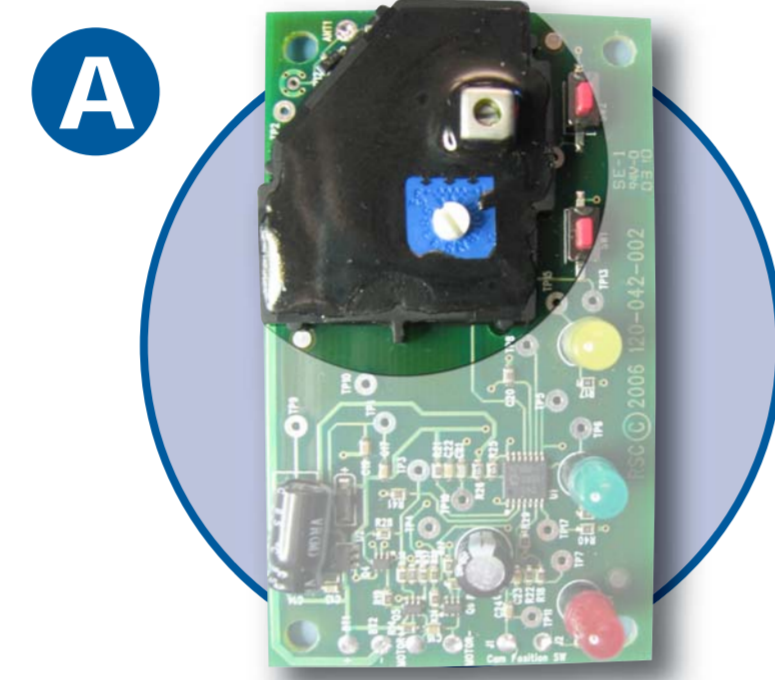


ELECTRONIC SmartDoor™ Improvements

Relax. We'll let the dog out.



Product Changes

Benefits

- A** Potting (encapsulating) SmartDoor circuit board radio receiver section.
- Keeps the active area (region in which the SmartKey is successfully recognized by the SmartDoor) from varying – even under very damp high humidity conditions. The distance from the SmartDoor at which the flap is unlocked is consistent from day to day.
- B** Adding cable ties to bundle internal wiring and mechanically securing the wiring bundle to definitively control the routing of all internal wiring.
- Virtually eliminates the variation in sensitivity adjustability from one SmartDoor to the next.
 - Assures that the inside and outside active areas (regions in which the SmartKey is successfully recognized by the SmartDoor) are nearly identical on all SmartDoors. Active area size and shape is consistent from one SmartDoor to the next.
- C** Changing the antenna length in the large SmartDoor from quarter-wavelength to full-wavelength (note that the small SmartDoor did not have issues warranting an antenna length change, and lengthening its antenna actually had undesirable effects).
- Makes the inside and outside active areas (regions in which the SmartKey is successfully recognized by the SmartDoor) nearly identical. There is very little difference between the distance from the SmartDoor at which the flap is unlocked from the inside and the distance from the SmartDoor at which the flap is unlocked from the outside.
 - Minimizes hot spots and nulls in the sensitivity pattern around the SmartDoor.
- D** Adding capability for the SmartDoor to back up and retry if an obstruction or potential jam is encountered as the flap is being locked. If retries are not successful, flap is left in the unlocked position, and a flashing LED alerts the user to the fact that there is a problem requiring his intervention.
- Eliminates issues with flaps jamming.
 - Makes the SmartDoor impervious to jams caused by intermittent flap disturbances as the flap is being locked (wind, differential pressure disturbances, drafts, pet bumping door, etc.) — the flap will be locked successfully by one of the subsequent retries when a spurious obstruction or potential jam is detected; when a retry is successful, the flashing LED alert ends, so in most instances, the user will never know an obstruction event had ever occurred.
 - Prevents a pet from being trapped inside or outside. If an obstruction persists in preventing the flap from locking, the flap is left in the unlocked position.
- E** Using stronger magnets for small flap centering (large SmartDoor has already been using stronger magnets).
- Prevents wind and drafts from causing small SmartDoor flap to potentially jam as it locks.
- F** Using redesigned sensitivity adjustment knob. New knob positively engages the potentiometer it turns, has mechanical stops to prevent knob rotation beyond potentiometer minimum and maximum limits, and has a pointer with corresponding tick marks on the bezel around its adjustment range.
- Eliminates the possibility of the issue wherein the user is not able to adjust the SmartDoor sensitivity due to the adjustment knob's slipping on the shaft of the adjustment potentiometer (the user turns the knob, but the sensitivity is not actually changed because the potentiometer shaft is not turned).
 - Protects the sensitivity adjustment potentiometer from damage.
 - Allows the user to tell in relative terms where he has his sensitivity adjustment set (i.e. at minimum, half way, at maximum, etc.).
- G** Adding a "Sensitivity Test Mode" to the SmartDoor functionality. In this mode, the SmartDoor flashes all LEDs whenever it successfully recognizes a SmartKey it has been programmed to recognize, and turns all LEDs off when it does not recognize a SmartKey.
- Allows the user to very easily adjust the SmartDoor sensitivity, as he can see immediately when the SmartKey is in the active area (region in which the SmartKey is successfully recognized by the SmartDoor) and when it is not. By moving the SmartKey in and out of the active zone, he can tell very readily where the SmartKey will be recognized by the SmartDoor and where it will not.

Product Changes

Benefits

- H** Improving Operating Guide by adding installation illustrations and content previously only on the cutting template and by providing additional helpful tips. Also, including a procedure to be followed before and after installation of the SmartDoor to prevent radio frequency operational issues with the product after installation.
- Keeps the user from having to keep "drilled and used" collateral for installation reference; he can easily reference all information in one source (the Operating Guide).
 - Prevents the user's cutting a hole at the installation location before assuring that the desired location is suitable from an RF standpoint (radio frequency interferences are not an issue with the selected installation location). Operating Guide is separated by PREPARE, INSTALL, SET AND OPERATE sections to aid the user in better understanding the SmartDoor's radio frequency (RF) functionality before cutting a hole at the desired installation location. The user can select a different installation location for the SmartDoor before installation in order to eliminate failures due to radio frequency interference and to assure the product will meet his expectations after installation.
- I** Adding capability to clear learned SmartKey memory.
- Allows a user to "unprogram" SmartKeys if he has previously programmed his SmartDoor to recognize SmartKeys he now does not want the door to recognize.
 - Customer care can instruct the user to clear the SmartDoor's learned SmartKey memory and relearn his SmartKeys if he is having problems that could be associated with the SmartDoor intermittently recognizing a rogue SmartKey (such as the SmartKey on a neighbor's pet).
- J** Using stronger pushrod springs in the large SmartDoor locking cam assemblies.
- Eliminates the issue with some large SmartDoor flaps "clacking" against the SmartDoor frame (bezel) as they swing closed.
- K** Adding "HOLD TO SELECT" text adjacent to MODE-RESET button.
- Prevents user confusion as to how the MODE-RESET button is to be used to select the mode of operation.
- L** Updating retail package with consumer-based messaging, simple and forthright product functionality descriptions (to properly set user expectations), an actual size outline of flap opening on the back, pointers to additional online web content, and "Kit Includes" and "Tools Needed" sections.
- Aids the consumer in better understanding the product functionality (particularly with regard to the radio frequency technology it uses), thus setting realistic user expectations for the product's performance.
 - Allows the consumer to see the actual size flap opening. The outline of the flap opening on the back of the retail package is supplemented with a 1-2-3 guide for how to select the proper SmartDoor size based on the pet's size. Quickly the user feels confident his pet will be able to fit through the door he selects.
 - Prompts the consumer to purchase any additional tools or materials needed before attempting to install the SmartDoor. "Kit Includes" and "Tools Needed" sections added to the retail package detail everything the user will need to install the SmartDoor.
 - Allows the consumer to be well informed about the product's expected performance during the point-of-purchase experience.
 - Directs the consumer to web and online channels, which will include additional directions and informational support.
- M** Adding inspection points to final assembly test procedure to check for improper flap opening force and excessive frame (bezel) bowing.
- Prevents SmartDoors from being shipped with door and/or flap magnets improperly oriented, which can keep the flap from centering properly, thus obstructing the flap's movement into the locked position.
 - Prevents the flap from sticking in the locked position when it should be unlocked.
- N** Adding regulatory registration numbers and European "wheelie bin" as product markings.
- Conforms to international marking requirements.

