HenSafe

Automatic Chicken Door Opener Instructions

MAINTENANCE & DISPLAY MESSAGES

If you see a Display Message you must read this section before pushing any buttons

HenSafe is designed to be damage-resilient even when attempts are made to operate it outside of its limits. Thorough testing has revealed that most display messages occur because of issues with installation and setup, e.g. door sticking (ice, debris); door not running freely (sloping ground); door too heavy; door too light; cord not long enough for any extra extension cord and/or pulleys.
If a Display Message is present and it is too dark to read it, press the → button to turn on the backlight.

DISPLAY MESSAGE: BAD LIGHT VALUE ABORTED

Shows when calibration is unsuccessful. The LUX level you are trying to set is too similar to the one you have already set, or closing level is lighter than opening level / opening level is darker than closing level, or you did not hold the button in until the CALIBRATION message was displayed. Solution: Recalibrate at a different LUX level.

DISPLAY MESSAGE: WINDING ERROR

Problem: *HenSafe* has been mounted too high.
When your door is closing, the cord would run out before the door reaches its closed position. The motor will continue to run, winding the cord the wrong way around the drum until it eventually stops and WINDING ERROR is displayed.
Solution: You need to reroute the cord so that it feeds from the underside of the drum. With this error message active the Menu and Set buttons control the motor. Press the Menu button to unwind the cord and hold until the cord begins to wind correctly around the drum from the underside. Keep it to the right of the post, as shown in the diagram on the last page.
While you are doing this you need to keep some slight tension on the cord with your other hand (or a friend's hand!) so that the cord feeds evenly and neatly.
Only now should you cancel the message by pushing the Green Manual button **(the message needs to be active to resolve).**
Re-mount *HenSafe* nearer to your pop hole, or extend the cord below the loop.

DISPLAY MESSAGE: CHANGE BATTERY

Your batteries should last at least year under normal operating circumstances with an average door. Replace using 4 x 'C' type alkaline, heavy duty batteries (suitable for motorised devices and not rechargeable). Only the clock may need to be reset, depending on how long it takes you to change the batteries. Operational settings will be retained.

DISPLAY MESSAGE: TOO MANY TRIES TO OPEN DOOR

HenSafe will try 5 times to confirm tension – the auto stop/start feature. This message is displayed if there is no tension on the cord when your door is trying to move. If *HenSafe* is unable to confirm tension then the display message **TOO MANY TRIES TO OPEN DOOR** will be displayed. So occasions when this might happen are:

1. Door Sticking/Jumping. Solution: Rectify/remove debris then cancel the display message by pressing the Green Manual Button. The door will continue opening.
2. Cord Broken. Solution: Replace the cord (next section)
3. Cord incorrectly routed around post. Solution: See diagram and STEP 5 in CORD REPLACEMENT for correct routing.
4. Your door is too light. It must weigh at least 300g. Solution: Add some weight to your door or fit a heavier one.

CORD REPLACEMENT

Two situations when you will need to do this:

(a) If the cord has snapped – you will get the display message **TOO MANY TRIES TO OPEN DOOR.** If no message is visible then you need to induce it by pushing the Green Manual Button. The motor will pulse 5 times which induces the display message **TOO MANY TRIES TO OPEN DOOR** after about 10 seconds.
(b) If the cord is damaged or frayed – press the Green Manual Button to open the door. As the door rises take the weight of the door off the cord (lift it up slightly so the cord is slack). The motor will pulse 5 times which induces the display message **TOO MANY TRIES TO OPEN DOOR** after about 10 seconds.

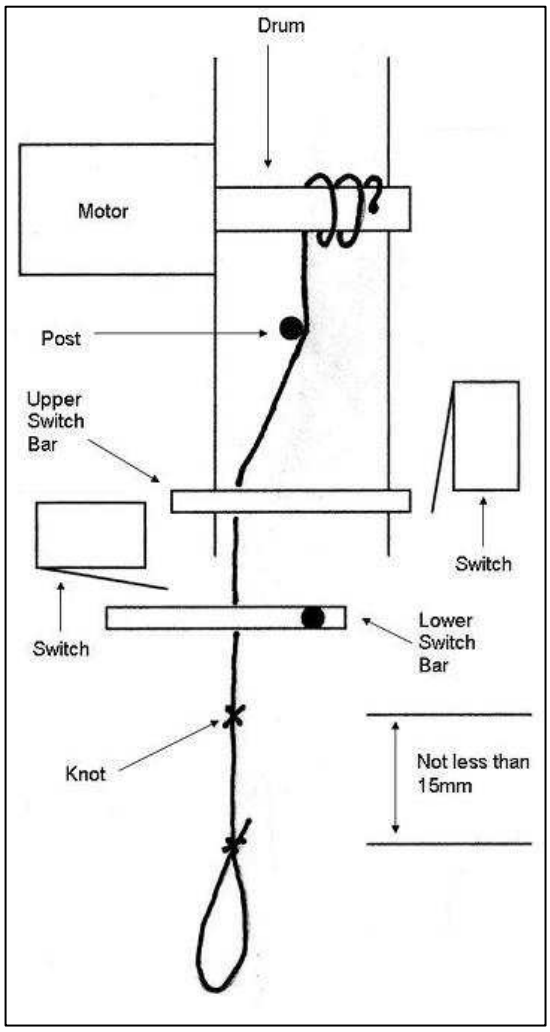
So, now that **TOO MANY TRIES TO OPEN DOOR** is displayed you can follow the instructions on the next page.

Tips:

1. It is not necessary to replace the whole cord for a damaged loop – just retie it, but make sure you still have sufficient length of cord remaining to completely close your door.
2. Coating the tip of the cord with superglue and letting it dry will aid its passage through the mechanism. Just cut off the tip before you tie the final knot.

HOW TO REPLACE THE CORD

Please read through to the end before starting to replace the cord.



STEP 1 - Unmount *HenSafe*. It is easier to change the cord indoors at a table.
STEP 2 - Undo the screws to remove the lid and rest it gently down.

When the message is displayed the MENU and SET buttons control the motor:

STEP 3 – Press and hold the SET button until the drum has unwound the broken cord so you can remove it, at the same time keeping a gentle tension on the cord to ensure it unwinds smoothly. Release the SET button and discard the broken cord.

STEP 4 – Form an attachment loop at the bottom end of your new cord. Tie an Ashley's Stopper Knot* in the cord, remembering the clearance distances (page 2).
STEP 5 – Thread your new cord **through the hole** in the base of the box, **through the holes** in both of the switch bars and **through the hole** in the drum, as shown in the diagram, ensuring that it goes to the **right** of the post as noted on the diagram.
STEP 6 – Pull a short length through drum and tie another knot to secure it. Settle this knot against the hole in the drum and ensure it will not slip through.
STEP 7 – Cancel the display message by pressing the Green Manual button.

Now the message is cancelled the Green Manual Button controls the motor.

STEP 8 – Press and release the Green Manual button and the motor starts. When you can see the cord winding to the underside of the drum, put some tension on the cord to simulate the weight of your door. Keep the tension on the cord and it will wind neatly onto the drum until the Ashley's Stopper Knot reaches the lower switch bar. The motor will then stop.
Note: If you put tension on the cord before the motor starts then the cord will start to wind over the top of the drum which is not correct. If this happens just release the cord and the motor will stop. Start from the beginning of Step 8 until the cord is winding the right way.

STEP 9 – Replace the lid and do up the screws, being careful not to over-tighten.
STEP 10 – Remount *HenSafe* onto your hen house and attach it to your door.

IF YOUR DOOR FAILS TO CLOSE
Check your door is not stuck in the "up" position, that it is hanging freely on the cord and that your knot is free to move through the hole in the bottom of the case i.e. is not stuck inside (if it is, retie your knot correctly).
Check the routing **(STEP 5 above)**. If the cord is to the left of the post, remove the lid and carefully hold the upper switch bar to the right (depressing the microswitch) and press the Green Manual button. When the cord becomes slack, release the switch bar and reposition the cord to the **RIGHT** of the post as in STEP 5.

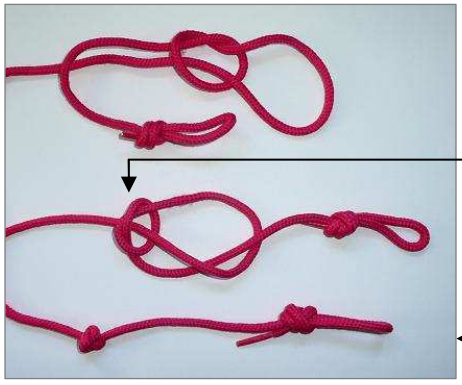
NOTE: The Ashley's Stopper Knot type and position is critical. Make sure you tie it in accordance with the diagram below. This Knot operates the lower switch bar to stop the motor when the door is at its open position. There should be no knots or additions to the cord above the Ashley's Stopper Knot. Any extensions you make to the cord must be BELOW this knot.

* THE ASHLEY'S STOPPER KNOT.

A solid, non-slip knot load. Its flat top forms a positive action on the switch bar.
First tie the bottom loop - the one which attaches HenSafe to your coop door, then follow the diagram below.

1 Tie a loose loop and bring the end over the top and down

2 Thread the end up and through your loose loop



3 Tighten the first part of the knot

4 Pull the end with your bottom loop on to fully tighten the stopper knot. You're ready to go!