

# MISALIGNED DIAL RING RECOVERY INSTRUCTIONS

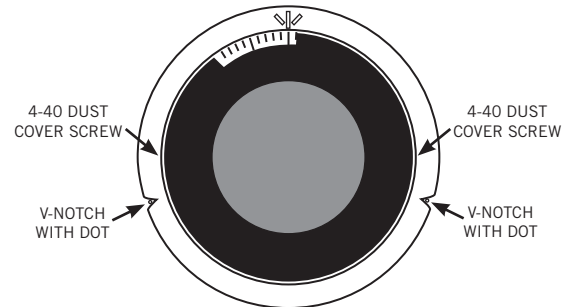
## S&G® Model 2740 Electromechanical Safe Lock

The S&G® 2740 Model Electromechanical Safe Lock requires alignment of the combination numbers to the dial ring opening index to enter the combination and open the lock. In normal operating environments, it is possible for the dial or ring to get bumped, changing its position (and therefore the position of the opening index). If this happens, the lock's combination will appear to stop working. In this event, because the opening index mark has moved to another location, dialing the combination

to this new location will be interpreted as an incorrect entry. If the lock senses ten incorrect combination entries in a row, it will go into a ten-minute penalty period during which no number entries will be recognized. Keep this in mind while performing the following procedure to correct the ring misalignment and open the lock so that the ring can be realigned and tightened, and the combination reset and centered.

On either side of the dial ring is a V-notch. You may have to remove the dust cover to see the V-notches. At the very bottom of each V is a small dot (indentation). If you do not see these two dots, the dial ring has been bumped and has shifted. You must realign the ring as closely as possible.

1. If you have not already done so, remove the dust cover by first removing the two 4-40 set screws that attach the cover to the dial ring at the 9 o'clock and 3 o'clock positions. The hex screws require a 3/32" hex wrench. Once they are removed, the cover will pull straight away from the ring.
2. Use a lightweight plastic or rawhide hammer to tap the edge of the ring into correct alignment. Only strike the ring, not the dial. You can tell when you've achieved correct alignment because each dial ring V-notch will reveal a small dot at the very bottom of the V. Tap only as hard as necessary to move the ring a little at a time. The dial spindle is scored, and the dial will break off if either the dial or the ring is tapped too hard. That will add a significant degree of difficulty to the opening and require the services of a skilled safe technician who is factory trained to work on this lock.
3. Once the dial has been repositioned so that a small dot is centered at the bottom of each of the two V-notches, tape the dial ring (not the dial) in position so that it will not shift while you dial trial combinations.
4. Fill in the table on the reverse side of this page to create trial combinations. One of them should open the lock. Once it is open, tape the dial so that it cannot move until the lock is reset and re-centered by a qualified technician.



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## S&G® Model 2740 Safe Lock Trial Combination Table

The entries in this table are based on the last known working combination for the lock and assume that the dial ring realignment procedure on the reverse page has been successfully completed. Fill in each table entry as indicated in each box, and remember that after ten unsuccessful opening attempts you must wait ten minutes for the lock's penalty time period to expire before proceeding. You will be dialing in  $\frac{1}{4}$  number increments, so be sure to view the dial and ring from straight on, and make sure you have good light.

If your original combination was 33 — 92 — 47 your trial combinations #1 through #4 would be:

33 — 92 — 47  
 $32\frac{3}{4}$  —  $91\frac{3}{4}$  —  $46\frac{3}{4}$   
 $33\frac{1}{4}$  —  $92\frac{1}{4}$  —  $47\frac{1}{4}$   
 $32\frac{1}{2}$  —  $91\frac{1}{2}$  —  $46\frac{1}{2}$

CHECK OFF EACH TRIAL COMBINATION  
 AFTER ENTERING IT TO KEEP TRACK  
 OF WHERE YOU ARE IN THE TABLE.



TRIAL COMBINATION #1	ORIGINAL 1 <sup>ST</sup> NO. ± 0	ORIGINAL 2 <sup>ND</sup> NO. ± 0	ORIGINAL 3 <sup>RD</sup> NO. ± 0	
TRIAL COMBINATION #2	ORIGINAL 1 <sup>ST</sup> NO. - $\frac{1}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. - $\frac{1}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. - $\frac{1}{4}$ NO.	
TRIAL COMBINATION #3	ORIGINAL 1 <sup>ST</sup> NO. + $\frac{1}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. + $\frac{1}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. + $\frac{1}{4}$ NO.	
TRIAL COMBINATION #4	ORIGINAL 1 <sup>ST</sup> NO. - $\frac{1}{2}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. - $\frac{1}{2}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. - $\frac{1}{2}$ NO.	
TRIAL COMBINATION #5	ORIGINAL 1 <sup>ST</sup> NO. + $\frac{1}{2}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. + $\frac{1}{2}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. + $\frac{1}{2}$ NO.	
TRIAL COMBINATION #6	ORIGINAL 1 <sup>ST</sup> NO. - $\frac{3}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. - $\frac{3}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. - $\frac{3}{4}$ NO.	
TRIAL COMBINATION #7	ORIGINAL 1 <sup>ST</sup> NO. + $\frac{3}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. + $\frac{3}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. + $\frac{3}{4}$ NO.	
TRIAL COMBINATION #8	ORIGINAL 1 <sup>ST</sup> NO. - 1 NO.	ORIGINAL 2 <sup>ND</sup> NO. - 1 NO.	ORIGINAL 3 <sup>RD</sup> NO. - 1 NO.	
TRIAL COMBINATION #9	ORIGINAL 1 <sup>ST</sup> NO. + 1 NO.	ORIGINAL 2 <sup>ND</sup> NO. + 1 NO.	ORIGINAL 3 <sup>RD</sup> NO. + 1 NO.	
TRIAL COMBINATION #10	ORIGINAL 1 <sup>ST</sup> NO. - $1\frac{1}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. - $1\frac{1}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. - $1\frac{1}{4}$ NO.	

**WAIT 10 MINUTES FOR PENALTY TIME TO EXPIRE**

TRIAL COMBINATION #11	ORIGINAL 1 <sup>ST</sup> NO. + $1\frac{1}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. + $1\frac{1}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. + $1\frac{1}{4}$ NO.	
TRIAL COMBINATION #12	ORIGINAL 1 <sup>ST</sup> NO. - $1\frac{1}{2}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. - $1\frac{1}{2}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. - $1\frac{1}{2}$ NO.	
TRIAL COMBINATION #13	ORIGINAL 1 <sup>ST</sup> NO. + $1\frac{1}{2}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. + $1\frac{1}{2}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. + $1\frac{1}{2}$ NO.	
TRIAL COMBINATION #14	ORIGINAL 1 <sup>ST</sup> NO. - $1\frac{3}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. - $1\frac{3}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. - $1\frac{3}{4}$ NO.	
TRIAL COMBINATION #15	ORIGINAL 1 <sup>ST</sup> NO. + $1\frac{3}{4}$ NO.	ORIGINAL 2 <sup>ND</sup> NO. + $1\frac{3}{4}$ NO.	ORIGINAL 3 <sup>RD</sup> NO. + $1\frac{3}{4}$ NO.	
TRIAL COMBINATION #16	ORIGINAL 1 <sup>ST</sup> NO. - 2 NO.	ORIGINAL 2 <sup>ND</sup> NO. - 2 NO.	ORIGINAL 3 <sup>RD</sup> NO. - 2 NO.	
TRIAL COMBINATION #17	ORIGINAL 1 <sup>ST</sup> NO. + 2 NO.	ORIGINAL 2 <sup>ND</sup> NO. + 2 NO.	ORIGINAL 3 <sup>RD</sup> NO. + 2 NO.	