INSTRUCTIONS:

1. REMOVE BATTERY COMPARTMENT COVER (SEE FIG. 1) AND INSTALL ALKALINE 9-VOLT BATTERY. THE RED LED SHOULD NOW FLASH ONCE EVERY SECOND AND THE MOTOR WILL RUN BRIEFLY.

2. REINSTALL THE BATTERY COVER AND ATTACH WITH BOTH SCREWS. THE RED LED SHOULD STOP FLASHING 3 SECONDS AFTER SECURING 2ND SCREW. THE RED LED WILL NOW BEGIN FLASHING ONCE EVERY 40 SECONDS.

3. WAIT 15 SECONDS.

4. PRESS AND HOLD THE "RESET" BUTTON FOR 2 SECONDS. YOU SHOULD HEAR THE MOTOR RUN BRIEFLY. IF YOU DO NOT HEAR THE MOTOR RUN, WAIT 15 SECONDS AND TRY AGAIN.

5. SELECT PROPER "B" DIMENSION FROM TABLE 1.

6. CLOSE THE DOOR AND PLACE UNIT AGAINST BOTTOM OF STOP (SEE FIG. 2).


8. USING THE UNIT AS A TEMPLATE, MARK THE LOCATION OF THE 3 MOUNTING HOLES IN THE STOP.

9. DRILL THE 3 MOUNTING HOLES WITH A 13/64" BIT AND TAP 1/4-20.

10. INSTALL THE UNIT ONTO THE STOP WITH THE 3 MACHINE SCREWS AND LOCK WASHERS.

11. SELECT PROPER "A" DIMENSION FROM TABLE 1.

12. MARK THE BRACKET HOLES LOCATIONS ON THE DOOR (SEE FIG. 2).

13. LOOSEN ARM SET SCREWS (SEE FIG. 4).

14. FOR 180° HOLD OPEN, MOVE THE ARM TO THE BRACKET HOLE CLOSEST TO THE HINGE. OTHERWISE, LEAVE ARM IN CENTER BRACKET HOLE. INSTALL ARM BRACKET USING 6 BOLTS, LOCK WASHERS, AND 6 NUTS (SEE FIG. 4).

15. MOVE THE SLIDE BLOCK TO THE LATCHED POSITION (SEE FIG. 1).

16. OPEN THE DOOR TO THE DESIRED HOLD OPEN ANGLE.

17. TIGHTEN ARM SET SCREWS (SEE FIG. 4). THE DOOR SHOULD NOW BE HELD OPEN.

18. MANUALLY OPEN AND CLOSE THE DOOR SEVERAL TIMES TO CHECK THE HOLD OPEN POSITION.

19. MANUALLY MOVE THE DOOR INTO HOLD OPEN POSITION.

20. PRESS THE "TEST" BUTTON TO SIMULATE A FIRE CONDITION. DOOR SHOULD RELEASE FROM HOLD OPEN.

21. WAIT 15 SECONDS.

22. PRESS THE "RESET" BUTTON TO RESET THE UNIT.

23. MANUALLY MOVE THE DOOR INTO HOLD OPEN POSITION. DOOR SHOULD NOW BE HELD OPEN.

24. IF DESIRED, ADJUST HOLD OPEN TENSION BY TURNING ADJUSTMENT SCREW COUNTERCLOCKWISE TO INCREASE OR CLOCKWISE TO DECREASE (SEE FIG. 1).

### TABLE 1

<table>
<thead>
<tr>
<th>DEGREES HOLD OPEN</th>
<th>90° - 130°</th>
<th>130° - 180°</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4 1/2&quot;(114)</td>
<td>1/2&quot;(13)</td>
</tr>
<tr>
<td>B</td>
<td>5&quot;(127)</td>
<td>3&quot;(76)</td>
</tr>
</tbody>
</table>

### SCREW DETAILS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUSH SIDE CHANNEL</td>
<td>3</td>
<td>1/4-20 x 1/2&quot; PHMS</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>1/4&quot; SPLIT LOCK WASHER</td>
</tr>
<tr>
<td>FULL SIDE CHANNEL</td>
<td>2</td>
<td>1/4-20 x 1/2&quot; SHCS</td>
</tr>
<tr>
<td>ARM BRACKET</td>
<td>2</td>
<td>1/4-20 TRUSS PHMS</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1/4-20 SEX BOLTS</td>
</tr>
<tr>
<td>CHANNEL HOLE PLUGS</td>
<td>4</td>
<td>PAINTED PLASTIC HOLE PLUGS</td>
</tr>
</tbody>
</table>

*THE SCREW COMES INSTALLED IN SECURITY BOLT*
INSTRUCTIONS:

1. REMOVE BATTERY COMPARTMENT COVER (SEE FIG. 1) AND INSTALL ALKALINE 9-VOLT BATTERY. THE RED LED SHOULD NOW FLASH ONCE EVERY SECOND AND THE MOTOR WILL RUN BRIEFLY.

2. REINSTALL THE BATTERY COVER AND ATTACH WITH BOTH SCREWS. THE RED LED SHOULD STOP FLASHING 3 SECONDS AFTER SECURING 2ND SCREW. THE RED LED WILL NOW BEGIN FLASHING ONCE EVERY 40 SECONDS.

3. WAIT 15 SECONDS.

4. PRESS AND HOLD THE "RESET" BUTTON FOR 2 SECONDS. YOU SHOULD HEAR THE MOTOR RUN BRIEFLY. IF YOU DO NOT HEAR THE MOTOR RUN, WAIT 15 SECONDS AND TRY AGAIN.

5. PLACE UNIT AGAINST FRAME. (SEE FIG. 2 & 3)

6. USING THE UNIT AS A TEMPLATE, MARK THE LOCATION OF THE 2 CHANNEL MOUNTING HOLES.

7. DRILL THE 2 MOUNTING HOLES WITH A 13/64" BIT AND TAP 1/4-20.

8. INSTALL THE UNIT ONTO THE FRAME WITH THE 2 SOCKET HEAD CAP SCREWS.

9. MARK THE BRACKET HOLE LOCATIONS ON THE DOOR (SEE FIG. 2)

10. LOOSEN ARM SET SCREWS (SEE FIG. 4)

11. INSTALL ARM BRACKET USING SEXT BOLTS, LOCK WASHERS, AND SEXT NUTS (SEE FIG 4)

12. MOVE THE SLIDE BLOCK TO THE LATCHED POSITION (SEE FIG 1)

13. OPEN THE DOOR TO THE DESIRED HOLD OPEN ANGLE.

14. TIGHTEN ARM SET SCREWS (SEE FIG 4)

15. MANUALLY OPEN AND CLOSE THE DOOR SEVERAL TIMES TO CHECK THE HOLD OPEN POSITION.

16. MANUALLY MOVE THE DOOR INTO HOLD OPEN POSITION.

17. PRESS THE "TEST" BUTTON TO SIMULATE A FIRE CONDITION. DOOR SHOULD RELEASE FROM HOLD OPEN.

18. WAIT 15 SECONDS.

19. PRESS THE "RESET" BUTTON TO RESET THE UNIT.

20. MANUALLY MOVE THE DOOR INTO HOLD OPEN POSITION. DOOR SHOULD NOW BE HELD OPEN.

21. IF DESIRED, ADJUST HOLD OPEN TENSION BY TURNING ADJUSTMENT SCREW COUNTERCLOCKWISE TO DECREASE (SEE FIG 1)

---

**SCREW DETAILS**

<table>
<thead>
<tr>
<th>QTY</th>
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</tr>
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<tbody>
<tr>
<td>3</td>
<td>1/4-20 x 1/2&quot; PHMS</td>
</tr>
<tr>
<td>3</td>
<td>1/4&quot; SPLIT LOCK WASHER</td>
</tr>
<tr>
<td>2</td>
<td>1/4-20 x 1/2&quot; SHCS</td>
</tr>
<tr>
<td>2</td>
<td>1/4-20 x 3/4&quot; TRUSS PHMS</td>
</tr>
<tr>
<td>2</td>
<td>1/4&quot; SPLIT LOCK WASHER</td>
</tr>
<tr>
<td>4</td>
<td>PAINTED PLASTIC HOLE PLUGS</td>
</tr>
</tbody>
</table>

*THE SCREW COMES INSTALLED IN SEXT BOLT*
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>COMMENTS</th>
</tr>
</thead>
</table>
| **DOOR WILL NOT HOLD OPEN** | 1. CHECK IF 9-VOLT ALKALINE BATTERY IS INSTALLED AND BATTERY COVER IS ATTACHED WITH BOTH SCREWS.  
2. DOES RED LED FLASH WHEN "TEST" BUTTON IS PUSHED AND HELD? IF YES, CONTINUE. IF NO, CALL GJ TECHNICAL SUPPORT AT (888) 371-7331.  
3. WAIT 15 SECONDS.  
4. PUSH AND HOLD "RESET BUTTON FOR 2 SECONDS.  
5. MOVE DOOR TO DESIRED HOLD OPEN ANGLE AND SEE IF HOLD OPEN MECHANISM CATCHES. IF NO, CONTINUE.  
6. DOES SLIDE BLOCK INSIDE CHANNEL TRAVEL COMPLETELY TO THE END OF TRACK WHEN THE DOOR IS FULLY OPEN? IF NOT, ADJUST (SHORTEN) THE ARM LENGTH. NOTE: THE SLIDE BLOCK MUST TRAVEL TO THE END OF THE CHANNEL TO ENGAGE THE LATCH MECHANISM.  
7. IF UNIT STILL WILL NOT HOLD OPEN, CALL GJ TECHNICAL SUPPORT AT (888) 371-7331. |
| **DOOR WILL NOT RELEASE WHEN "TEST" BUTTON IS PUSHED** | 1. WAIT 15 SECONDS.  
2. PUSH AND HOLD "TEST" BUTTON FOR 2 SECONDS.  
3. IF UNIT DOES NOT RELEASE, MAKE SURE DOOR IS NOT HUNG UP ON FRAME OR THE FLOOR AND THAT THE CLOSER IS WORKING PROPERLY. IF UNIT STILL DOES NOT RELEASE, CALL GJ TECHNICAL SUPPORT AT (888) 371-7331. |
| **DOOR IS DIFFICULT TO RELEASE FROM HOLD OPEN MANUALLY** | 1. ADJUST TENSION BY TURNING HOLD OPEN TENSION ADJUSTMENT SCREW.  
2. CHECK TO SEE IF UNIT IS SECURELY ATTACHED TO THE DOOR AND FRAME. IF THE UNIT ROCKS ON THE FRAME, THE RELEASE MECHANISM MAY BIND UP DURING MANUAL RELEASE. |
| **DOOR WILL NOT SHUT COMPLETELY** | 1. CHECK IF ADJUSTABLE ARM RUBS OR CONTACTS ANY PART OF THE CHANNEL. IF IT DOES, THE ARM MAY BE ADJUSTED TOO LONG, THE DOOR BRACKET MAY BE MOUNTED TOO HIGH, OR THE CHANNEL IMPROPERLY LOCATED. VERIFY TEMPLATE DIMENSIONS. |
| **DOOR WILL NOT HOLD OPEN AFTER "SMOKE TEST"** | 1. AS LONG AS SMOKE IS IN THE DETECTION CHAMBER, THE RED LED WILL BE FLASHING. WAIT FOR ALL SMOKE TO DISSIPATE, THEN PRESS "RESET" BUTTON, WAIT 15 SECONDS, AND TRY AGAIN. |
TEST BUTTON........PUSH FOR 2 SEC. TO RELEASE DOOR HOLDER

RESET BUTTON........PUSH FOR 2 SEC. TO RESET HOLDER. 
(WAIT 15 SEC. BETWEEN TEST AND RESET)

SMOKE CHAMBER........IONIZATION CHAMBER DETECTS SMOKE AND 
PARTICLES OF COMBUSTION - SIGNALING A 
HELD OPEN DOOR TO RELEASE

LED VOLTAGE TESTER.....MONITORS THE BATTERY VOLTAGE ONCE EVERY 
40 SEC. A LOW BATTERY CONDITION WILL SIGNAL 
THE HOLDER TO RELEASE, THUS PROVIDING A FAIL 
SAFE CONDITION

BATTERY HOLDER........USES STANDARD 9 VOLT EVEREADY ENERGIZER #522 
BATTERY OR DURACELL #MN1604. DO NOT 
SUBSTITUTE OTHER BRANDS

FAIL SAFE SWITCH.......REMOVAL OF BATTERY COVER CAUSES A HELD OPEN 
DOOR TO RELEASE. A GOOD BATTERY MUST BE 
INSTALLED AND THE COVER IN PLACE BEFORE 
HOLDER CAN BE ACTIVATED

SLIDE BLOCK...........ENGAGES HOLDER MECHANISM TO HOLD DOOR OPEN

ADJUSTABLE ARM........CONNECTS DOOR TO SLIDE BLOCK. ADJUSTABLE 
FOR SINGLE POINT HOLD OPEN. 
90°-130° WHEN PULL SIDE MOUNTED 
90°-180° WHEN PUSH SIDE MOUNTED

MICROPROCESSOR........MECHANISM "HOLDS" WHEN RESET SWITCH IS PUSHED.

HOLDER MECHANISM........MECHANISM "RELEASES" WHEN: 
TEST BUTTON IS PUSHED 
SMOKE IS DETECTED 
BATTERY VOLTAGE IS LOW 
BATTERY IMPEDANCE HIGH 
BATTERY COVER REMOVED

MANUAL RELEASE........PULLING DOOR TOWARD THE CLOSED POSITION WILL RELEASE 
THE HOLDER MECHANISM. Pushing the door fully open will 
RESET THE HOLDER

REPLACE BATTERY YEARLY ON A REGULAR MAINTENANCE SCHEDULE

NOTE: A HELD OPEN DOOR WILL RELEASE AUTOMATICALLY WHEN SMOKE IS DETECTED. 
IT IS NECESSARY TO PUSH THE RESET BUTTON AFTER THE SMOKE CLEARS THE 
CHAMBER. THIS WILL REARM THE HOLDER MECHANISM.