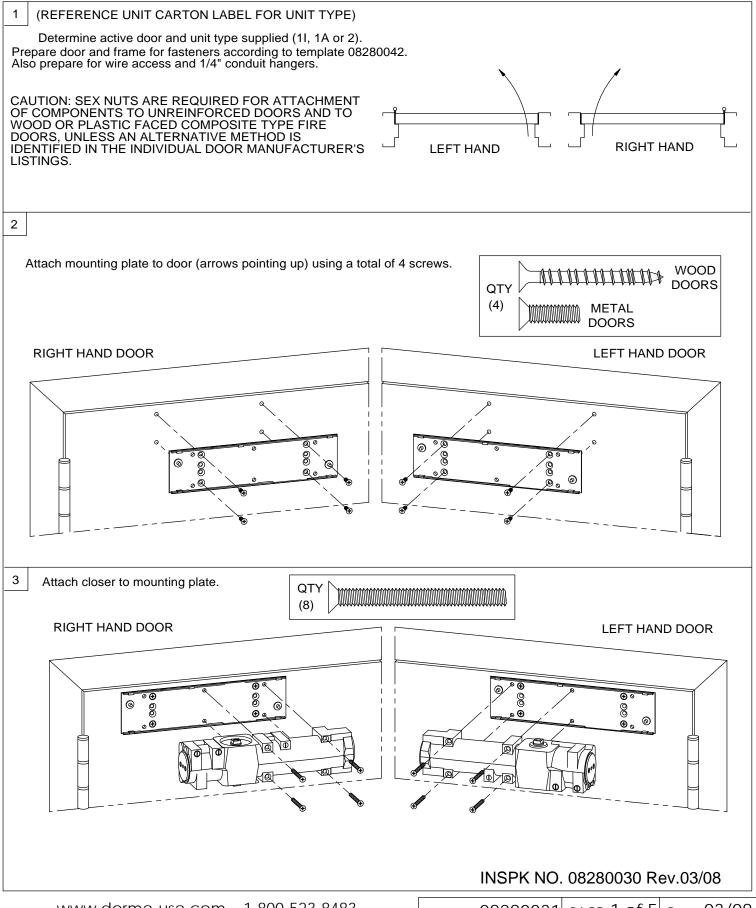
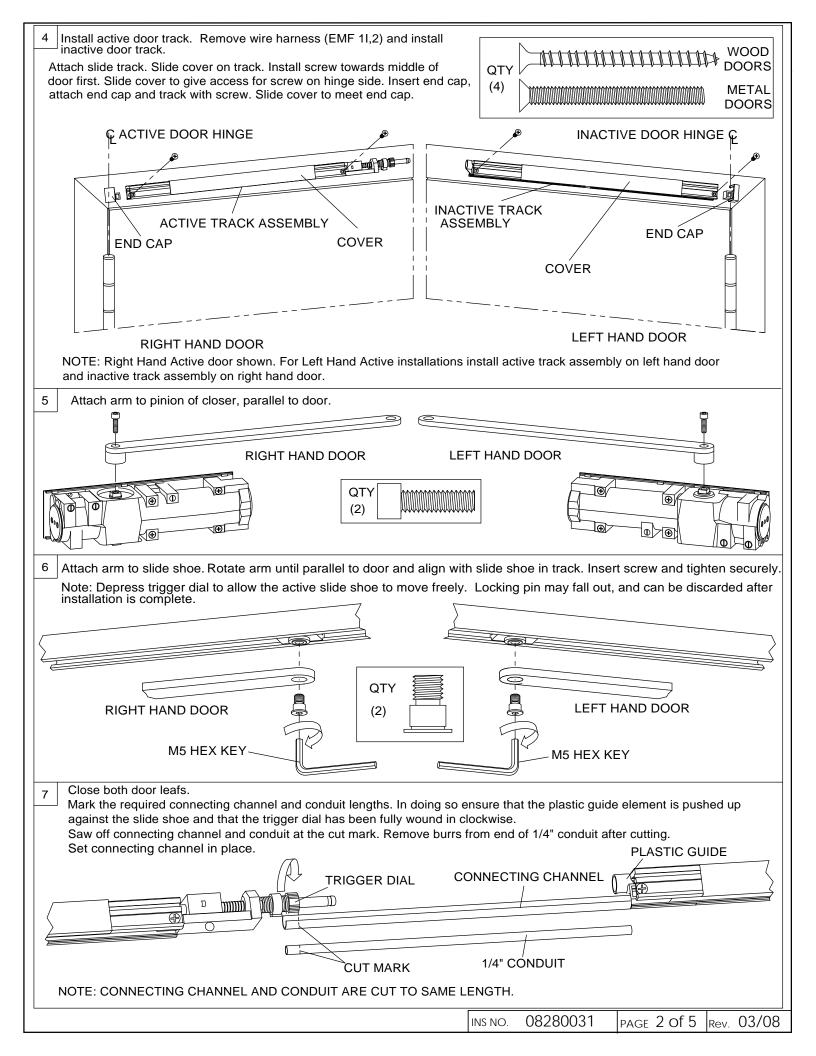
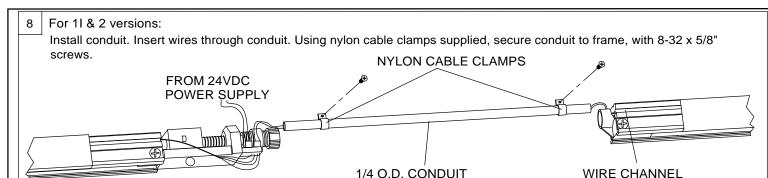
TS93 GSR/EMF 1I, 1A, 2 PULL SIDE DOOR CLOSER/COORDINATOR/HOLD OPEN





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QTY (2)

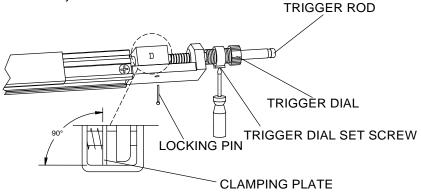
Must run Inactive Solenoid Wire through wire channel on wall side of track.

NOTE:

9 Open active leaf to retract clamping rod. Insert the connecting channel into the trigger dial of the active leaf slide track, and then insert into the inactive leaf plastic guide.

Unwind the trigger dial (turn counter clockwise) by hand until active door starts to close. During this process, ensure that the clamping plate is perpendicular (90°) to the clamping rod. Tighten set screw to secure trigger dial.

Note: Pin can be discarded once system has been installed.



The clamping rod will only operate smoothly if the clamping plate has been properly adjusted. Only then will the active leaf swing freely with the inactive leaf closed.

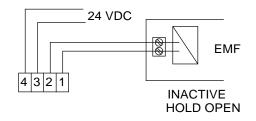
Attach plug-in side of wire harness to 4 pin terminal block on active track assembly. For 1A, 2: Attach wires to hold open screw terminal on active track.

Connect to incoming 24 VDC power supply. Make sure power is off while making connection. Connect plug-in side of incoming power wire harness to final 2 terminals of 4 pin terminal block on active track assembly.

Power unit.

Connect wires as follows:

- 24 VDC-from UL listed power supply.
- EMF inactive door



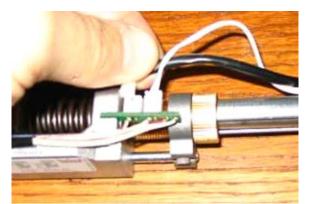


Voltage input: 24 VDC +10% -15%

Maximum input current:

GSR/EMF 11 24VDC - .067ma GSR/EMF 1A 24VDC - .067ma

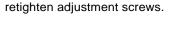
GSR/EMF 2 24VDC - .134ma

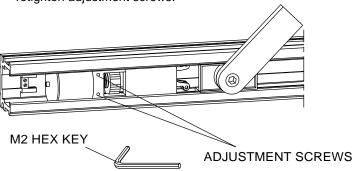


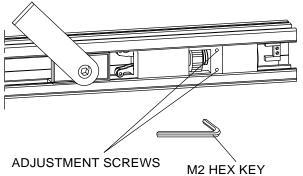
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Setting the hold open point.

Open door leaf(s) until engaged in hold open. If another degree of hold open is desired, loosen adjustment screws. Slide the electric hold open mechanism in the appropriate direction for an increase or decrease of hold open degree and







GSR/EMF 1I (ACTIVE DOOR & INACTIVE DOOR HOLDS OPEN TOGETHER)

The GSR/EMF 1I incorporates an Electric hold open mechanism in the inactive leaf. The coordinator mechanism tied to the inactive leaf in turn holds the active leaf at whatever degree of opening it is placed. Both doors will close in sequence (inactive first) from any point upon signal from the fire alarm system or when electrical current is interrupted.

(ACTIVE DOOR HOLD OPEN) GSR/EMF 1A

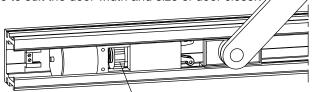
The GSR/EMF 1A incorporates an Electric hold open mechanism in the active leaf. This eliminates the need to hold the inactive leaf in the open position to initiate hold open of the active leaf. This version permits the active leaf to be held open at a preselected point when the inactive leaf is in the closed position. The door will close from any point upon signal from the fire alarm system or when electrical current is interrupted.

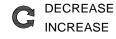
GSR/EMF 2 (ACTIVE DOOR HOLD OPEN ONLY OR INACTIVE & ACTIVE HOLD OPEN TOGETHER)

The GSR/EMF 2 incorporates an Electric hold open mechanism in both door leaves. This enables both leaves to be held open when the inactive door is placed in the preselected hold open position and also enables the active door to be held open independently when the inactive door is in the closed position. Both doors will close in sequence (inactive first) from any point upon signal from the fire alarm system or when electrical current is interrupted.

Setting the release force.

Adjust the release force to suit the door width and size of door closer



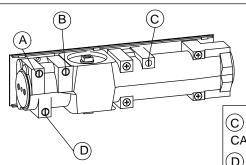


HOLD OPEN STRENGTH ADJUSTMENT

NOTE: If the release force is set too high, damage might occur to door, hinges, or GSR system.

13 Adjust sweep, latch, backcheck and delayed action valves.

CAUTION: DO NOT REMOVE VALVES.

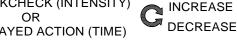


INCREASE (A) - SWEEP speed from 70° opening to 0°.

(B)- LATCH speed from approx.

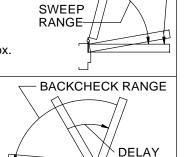
7° to 0°.-(INCREASE ONLY)

BACKCHECK (INTENSITY) OR DELAYED ACTION (TIME)



(C) - BACKCHECK cushion effect. CAUTION: DO NOT CLOSE VALVE COMPLETELY.

(D) - DELAY speed from approx. 135° to 70°.

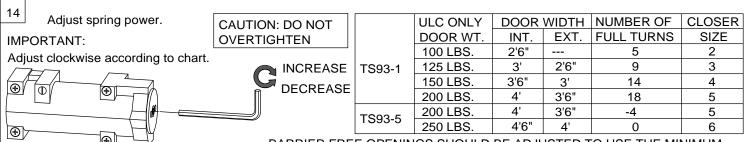


LATCH RANGE

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RANGE

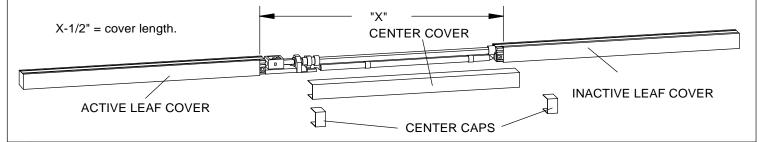


BARRIER FREE OPENINGS SHOULD BE ADJUSTED TO USE THE MINIMUM CLOSING FORCE REQUIRED TO CLOSE AND LATCH THE DOOR.

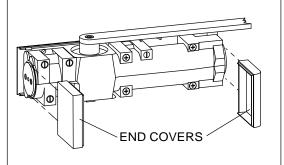
Install track covers (narrow side of each toward center) and center cover. Slide end covers into grooves.

Measure distance between inactive leaf cover and active leaf cover then subtract 1/2 inch.

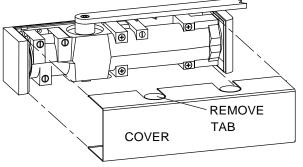
Cut center cover to length. Clip on center cover then both plastic covers.



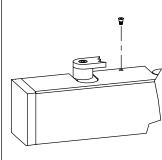
16 Install closer covers and end covers.



Slide end covers over closer body end caps.



Remove tab that aligns with arm hub. Slide cover onto plate.



Secure with locking screw.

17 Install carrybar.

A carrybar should be installed to insure that the active door is opened enough for the inactive door to close. DORMA carrybars MK-397 (up to 3'-6" wide door) and MK-398 (3'-6" and wider door) are recommended. Installation instructions are included with carry-bar.

FINAL INSTALLATION AND TEST

- 1. After installation is completed, check all connections.
- 2. Open doors to desired positions.
- 3. Activate system in alarm so the electromagnet(s) releases and the doors close.

OPERATION

NORMAL - The unit's electromagnet(s) will be energized by the alarm system, applying 24VDC power supply.

FIRE ALARM - When the alarm sounds, current will automatically be cut causing the electromagnet(s) to release, allowing the door(s) to close.

IMPORTANT: THE UNIT MUST BE TESTED AFTER INSTALLATION, BY THE END USER, TO BE CERTAIN THAT THE DOOR CLOSER UNIT FUNCTIONS PROPERLY WHEN THE ALARM SYSTEM IS ACTIVATED. THE ENTIRE SYSTEM MUST ALSO BE TESTED PERIODICALLY AFTER THE INITIAL INSTALLATION TEST, IN CONJUNCTION WITH THE TESTING OF THE FIRE ALARM SYSTEM. THE END USER IS ALSO RESPONSIBLE FOR MAINTAINING THE DOOR CLOSING SYSTEM.