

RTS SERIES X 8534 END LOAD ARM ALUMINUM DOOR AND FRAME



1. PREPARE FRAME AND INSTALL CLOSER

Prepare header (1) and side jamb (2) according to template. Fasten mounting bracket (3) to side jamb with three No. 8-32 pan head machine screws. Fasten header to side jamb with two No. 10-32 flat head machine screws. Fasten two 1/4-20 flat head machine screws (4) to header with lock washers and nuts. Fasten angle bracket (5) to closer (6) with two hex head machine screws and flat washers. Install two fillister head machine screws (7) into mounting tabs on closer, make approximately three turns.

NOTE: For RTS 88 models only – do not remove spacer washers in mounting tabs.

Install closer into header by inserting mounting tabs into mounting bracket (3), then raise end of closer with angle bracket (5) onto the two 1/4-20 screws (4). Fasten angle bracket with two remaining 1/4-20 nuts and lock washers. Tighten the two fillister head machine screws (7) SECURELY. Install cover plate (8) by sliding tab into frame and fasten opposite end to mounting bracket with two No. 8-32 flat head machine screws provided.

2. PREPARE TOP OF DOOR AND INSTALL ARM

Prepare top of door according to template. Fasten arm channel (9) to door with four 10-32 flat head machine screws. Install the two M6 hex head arm alignment screws (10) into closer arm (11). Attach closer arm to channel by centering broach in closer arm over reference hole in arm channel. Keeping the closer arm centered in arm channel, turn both M6 hex head arm alignment screws counterclockwise until, they are wedged against arm channel. Tighten lateral adjustment screw (12) until it contacts closer arm. Lock arm into place with M6 socket head cap screw and washer (13).

3. PREPARE BOTTOM OF DOOR AND INSTALL PIVOT

8852 FLOOR PIVOT (7/8" WEB DEPTH)
8853 FLOOR PIVOT (1-9/16" WEB DEPTH)
Prepare bottom of door according to template. Fasten door portion of bottom pivot (14) with three 1/4-20 pan head machine screws (15). Prepare floor according to template. Fasten lower portion (16) with two No. 14 flat head wood screws and plastic anchors.

8855 THRESHOLD PIVOT (7/8" WEB DEPTH)
Prepare bottom of door according to template. Fasten door portion of bottom pivot with three 1/4-20 pan head machine screws. Prepare threshold according to template. Fasten lower portion with jamb nut.
8857 THRESHOLD PIVOT (1-9/16" WEB DEPTH)
Prepare bottom of door according to template. Fasten door portion with two 1/4-20 pan head machine screws. Prepare threshold according to template. Fasten lower portion with two No. 14 flat head wood screws and plastic anchors.

Place bearing (17) onto bottom portion of pivot.
IMPORTANT: To fit bearing correctly, the enclosed side showing the nomenclature of the bearing must face down.

4. INSTALL DOOR

HOLD OPEN CLOSER – With a large adjustable wrench, turn the closer spindle to hold open position (90° or 105°)

NON-HOLD OPEN CLOSER – Completely close valves "A" and "B" by turning clockwise. With a large adjustable wrench, turn closer spindle to approximately 90°.

Position door at angle that coincides with the closer spindle. Align top of door with closer spindle and bottom of door with pivot. Slide top and bottom of door into position SIMULTANEOUSLY. Fasten clamping block (18) to arm (11) with socket head cap screws 19. Alternate fastening screws when tightening clamping block (18). TIGHTEN SECURELY.

5. ADJUST CLOSING SPEED

Valve "A" – Controls closing speed from maximum opening angle to 0°. Clockwise turns decrease closing speed, counter-clockwise turns increase closing speed.

Valve "B" – Increases closing speed from maximum opening angle to 20°, turn valve counterclockwise.

6. DOOR ALIGNMENT

Double Acting – Center door in frame by loosening M6 socket head cap screw (13) and adjusting the two M6 hex head arm alignment screws (10) as required. Retighten M6 socket head screw (13) SECURELY.

Single acting – Adjustment may be required to insure that door closes tightly against stop. Loosen M6 sockethead screw (13), adjust closer arm in the direction of door swing. Retighten M6 sockethead cap screw.

7. CLEARANCE ADJUSTMENTS (IF REQUIRED)

If clearance differs from those shown on template, adjust in the following manner.

Loosen clamping block screws (19). Height adjustment is made by turning adjustment nut on lower portion of pivot clockwise to raise and counterclockwise to lower door.

ADJUSTMENT RANGES – REFERENCE TEMPLATE
Retighten clamping block screws (19).

8. DOOR REMOVAL

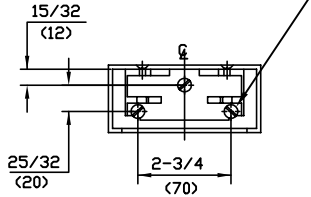
For closers with hold open feature, place door in hold open position. For non-hold open closers, open door to approximately 90°. Completely close valves "A" and "B" turning clockwise. Remove clamping block (18) from top arm (11). With screwdriver, depress retaining clip on door portion of bottom pivot. Slide door out of opening.

CLOSER/COVER PLATE

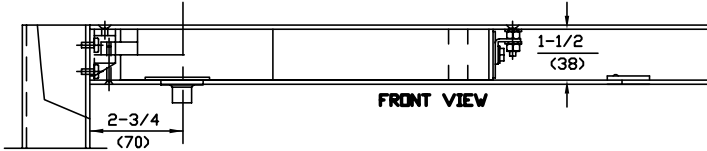
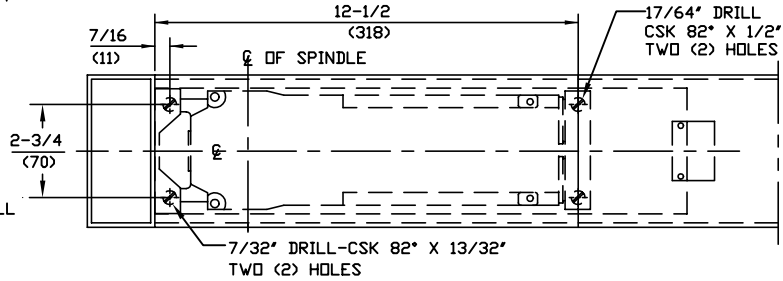
NOTE

1. MIN HEADER SIZE 1-3/4" X 4".
2. CUT OUT FOR COVER PLATE 3-3/4" X 15-3/4".
3. DO NOT SCALE DRAWING.
4. CLEARANCE BETWEEN HEADER AND DOOR 1/8".

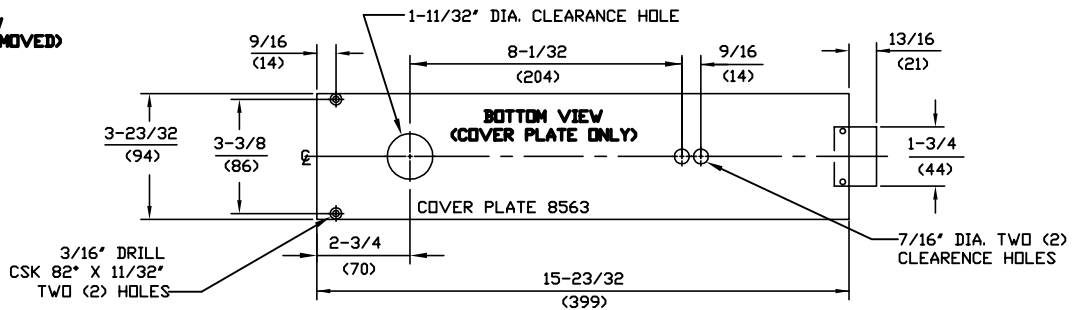
FOR 8-32 MACHINE SCREWS USE No.29 DRILL DRILL AND TAP THREE (3) HOLES



**SIDE VIEW
(CLOSER BODY REMOVED)**



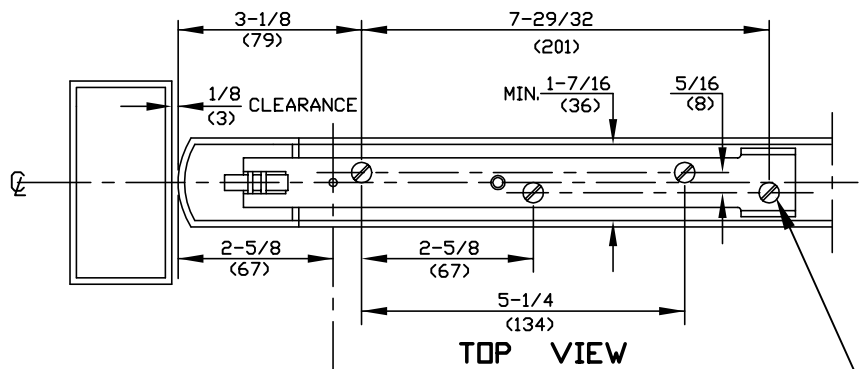
FRONT VIEW



**BOTTOM VIEW
(COVER PLATE ONLY)**

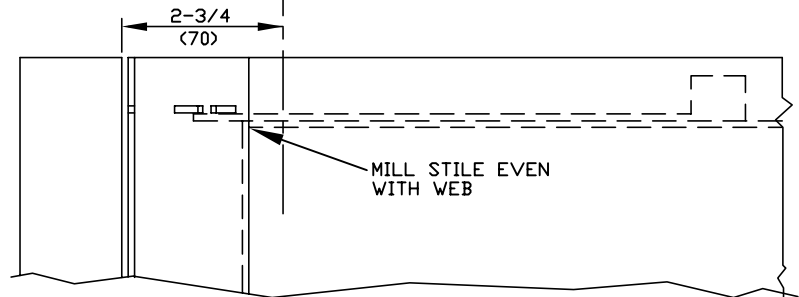
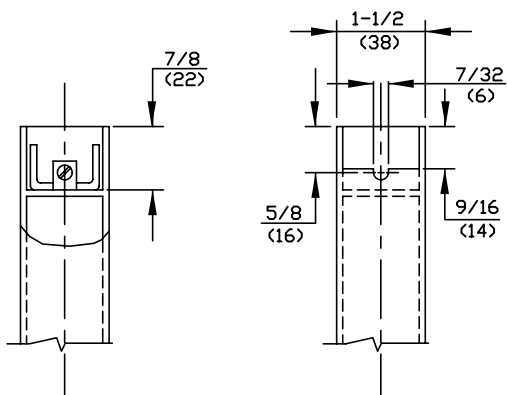
COVER PLATE 8563

TOP ARM



TOP VIEW

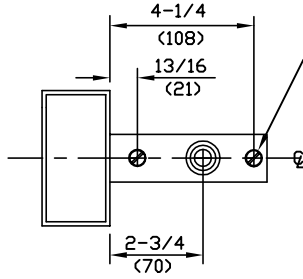
FOR 10-32 MACHINE SCREWS USE No. 21 DRILL FOUR (4) HOLES IN DOOR



MILL STILE EVEN WITH WEB

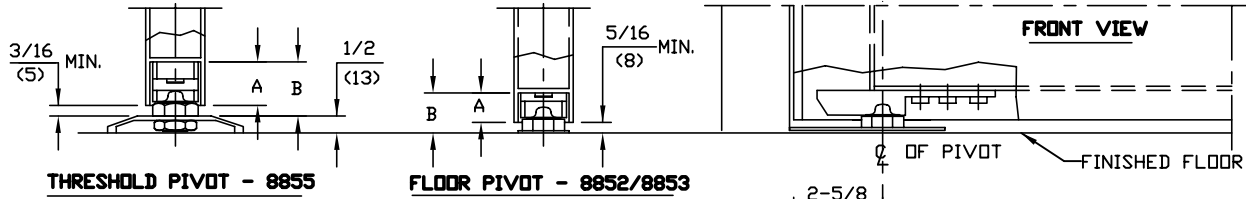
8852, 8853, 8855 PIVOTS

FLOOR PREPARATION - 8852/8853

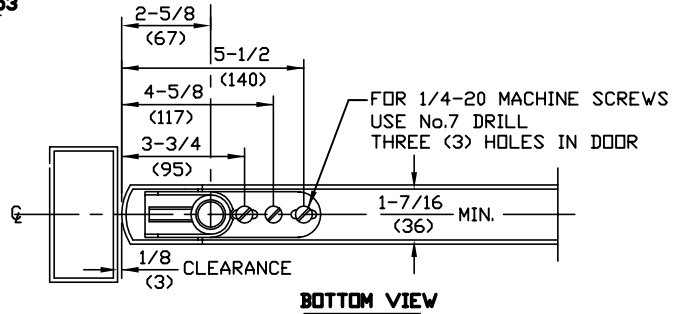
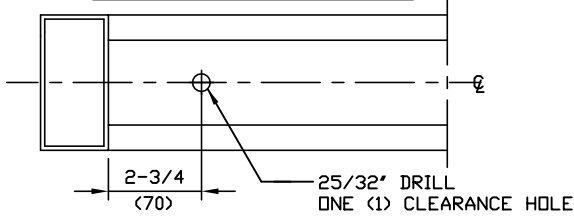


PIVOT TYPE	DIM A WEB DEPTH	DIM B PIVOT HEIGHT	PIVOT No.
FLOOR PIVOT	7/8	1-3/16 - 1-7/16	8852
	1-9/16	1-7/8 - 2-1/8	8853
THRESHOLD PIVOT	7/8	1-1/16 - 1-5/16	8855

NOTE: ALL PIVOTS HAVE 1/4" HEIGHT ADJUSTMENT

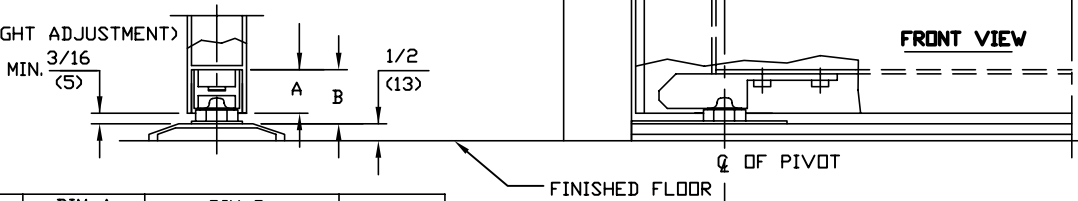


THRESHOLD PREPARATION - 8855

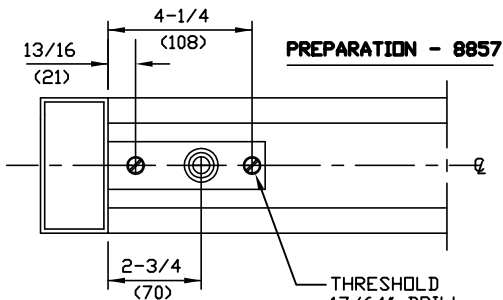


8857 PIVOT

(1/4" HEIGHT ADJUSTMENT)
MIN. 3/16 (5)



PIVOT TYPE	DIM A WEB DEPTH	DIM B PIVOT HEIGHT	PIVOT No.
THRESHOLD PIVOT	1-9/16	2-1/16 - 2-5/16	8857



PREPARATION - 8857

