

CONDUIT REQ'D FOR GROUNDING PULL BOX.

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		APPROVALS	DATE
DECIMAL DIMENSIONS .XX	± .010	APPROVED	
DECIMAL DIMENSIONS .XXX	± .005	CHECKED	
ANGULAR ± °	FRACTIONAL ± 1/64	DRAWN	RM 01/16/01
FILE NO.	MATERIAL	SCALE	

NEXT ASSY.	FINISH
QTY. USED	HEAT TREAT

SCHMATIC 2000E SERIES
EXIT DEVICES



SHEET 1 OF 1 SHEETS	
DWG. NO.	REV.
10-1003	C

MOUNTING INSTRUCTIONS:

1. PREPARE ACTIVE STILE, INSIDE FACE, PER SHEET 2 OF 2 OR 10-474 DRILL TEMPLATE. WHEN USING OUTSIDE LOCK PAD USE TEMPLATE 10-476.
2. INSTALL ROD & CASE ASSY INTO ACTIVE STILE WITH 2 EA. 1/4-20 SHOULDER BOLTS.
3. INSTALL BOTTOM STRIKE PLATE ON THRESHOLD WITH 2 EA. #8 x 3/4"(19) SELF-TAPPING SCREWS.
4. INSTALL 1 EA. 1/4-20 SHOULDER BOLT, INACTIVE STILE. (IF TRIM OR LOCK CYL. IS NOT BEING USED, SKIP NOTE #5.) (REF. 10-1014 FOR ACTUAL INACTIVE DRILL TEMPLATE)
5. INSERT LOCK CYLINDER INTO LOCK MTG. PAD AND SECURE WITH LOCK RING. POSITION LOCK CYL. MTG. PAD ON OUTSIDE FACE (LOCKSIDE) OF ACTIVE STILE & SECURE WITH 2 EA. 8-32 x 1"-15/16(29) F.H.M.S. IF TRIM IS BEING USED FOLLOW INSTRUCTION GUIDE 10-990 WITH TRIM.
6. UNDOG PANIC DEVICE PER INSTRUCTIONS ON ACTIVE PAD.
7. PLACE ACTUATOR LINK ONTO LEVER PINS IN ACTIVE PAD. BEING SURE THERE IS A POSITIVE ENGAGEMENT OVER THE SIDES OF LEVER.
8. INSTALL PANIC DEVICE ON STILES ASSURING ACTUATOR LINK ENGAGES ACTUATOR PIN AS SHOWN PER DETAIL "A". TIGHTEN (2) SET SCREWS ON THE ACTIVE PAD & 1-SET SCR. ON THE INACTIVE PAD. INSTALL BOLT GUIDES TOP & BOTTOM SECURE WITH 2-EA. #10 x 1/2(13) SELF TAPPING SCREWS.
9. INSTALL TOP AND BOTTOM BOLTS SO THAT 1/2"(13) OF BOLT EXTENDS FROM VERTICAL STILE. (REF. DETAILS "D" & "J") (NOTE: IF A GAP IS PRESENT BETWEEN "TOP BOLT GUIDE" ASSY AND VERTICAL STILE WALL, THE SPACER MUST BE FOR POWER SUPPLY AND WIRING DIAGRAM, SEE DWG. 10-1003 INSTALLED AS SHOWN).
10. DEPRESS PUSH BAR, TOP BOLT SHOULD LOCK IN THE RETRACTED (UN-LOCKED) POSITION. IF LOCKING DOES NOT OCCUR, RE-ADJUST ONE HALF TURN CLOCKWISE. INSTALL TOP BOLT GUIDE AND REPEAT STEP 9.

TOP BOLT ADJUSTMENT:

1. RELEASE TOP AND BOTTOM BOLTS BY DEPRESSING TRIGGER ON TOP BOLT GUIDE ASSY.
2. POSITION TOP BOLT 1/2"(13) FROM TOP EDGE OF ACTIVE STILE. SECURE WITH CAP SCREW (SEE DWG. 10-860).

BOTTOM BOLT ADJUSTMENT:

1. FULLY DEPRESS PUSH BAR, RETRACTING TOP AND BOTTOM RODS. ADJUST BOTTOM BOLT PER DETAIL "B"

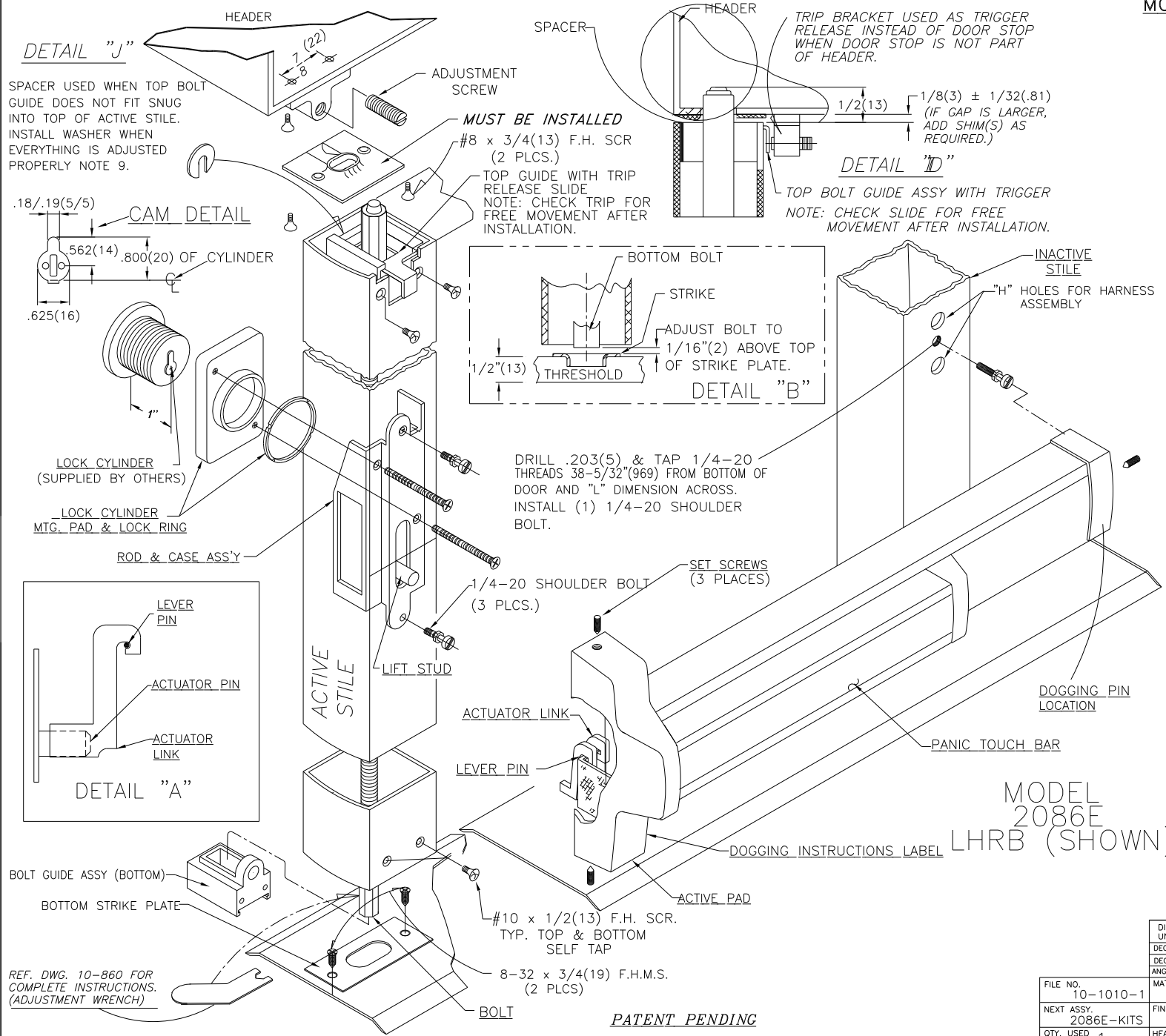
MANUAL CHECK:

1. WITH TOP AND BOTTOM BOLT FULLY RETRACTED, DEPRESS TRIGGER RELEASE, RODS WILL THEN EXTEND TO THE LOCKED POSITION.
2. INSTALL TRIP BRACKET (REF. DETAIL "J") AND ADJUST SET SCREW SO THAT WHEN DOOR CLOSES, TOP BOLT GUIDE TRIGGER CONTACTS SET SCREW AND ALLOWS BOLTS TO EXTEND. INSTALL TOP AND BOTTOM STRIKES.

DOGGING INSTRUCTIONS:

TO DOG: DEPRESS TOUCH BAR, TURN LOCK CYLINDER KEY CLOCKWISE OR PUSH DOGGING PIN UP RELEASE PIN AND TOUCH BAR.

TO UNDOG: DEPRESS TOUCH BAR, TURN KEY COUNTERCLOCKWISE OR PUSH DOGGING PIN UP AND RELEASE.



MODEL
2086E
LHRB (SHOWN)

PATENT PENDING

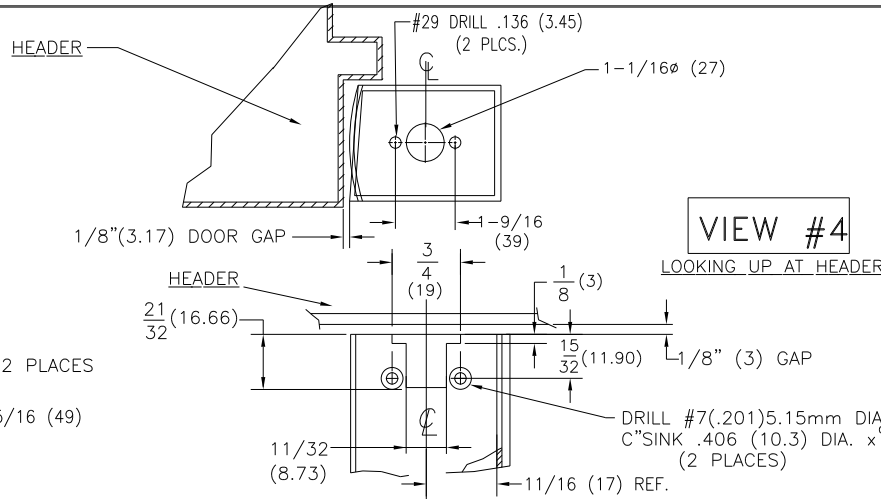
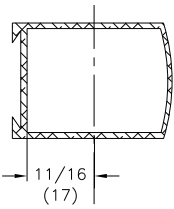
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		APPROVALS		DATE
DECIMAL DIMENSIONS .XX ± .010		APPROVED		
DECIMAL DIMENSIONS .XXX ± .005		CHECKED		
ANGULAR ± 0 FRACTIONAL ± 1/64		DRAWN	RM	07/31/02
MATERIAL		SCALE	NONE	
FILE NO. 10-1010-1		FINISH	INSTALLATION GUIDE	
NEXT ASSY. 2086E-KITS		HEAT TREAT	2086E CVR PANIC DEVICE	
QTY. USED 1			SHEET 1 OF 2 SHEETS	DWG. NO. 10-1010-1
				REV. A



REF. DWG. 10-860 FOR COMPLETE INSTRUCTIONS. (ADJUSTMENT WRENCH)

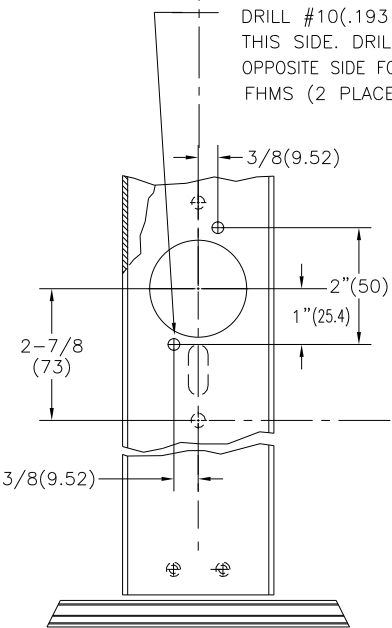
ROUTING INSTRUCTIONS:

1. PREPARE INSIDE FACE (PANIC SIDE) OF ACTIVE STILE PER VIEW #1 & TEMPLATE 10-474.
2. PREPARE INSIDE FACE (PANIC SIDE) OF HINGE STILE PER VIEW #2 & TABLE "A".
3. PREPARE THRESHOLD PER VIEW #3.
4. PREPARE HEADER PER VIEW #4.
5. IF LOCK CYLINDER IS BEING USED SEE DWG. 10-476 TEMPLATE (WITH MTG. PAD).
6. IF OUTSIDE TRIM IS BEING USED, SEE DWG. 10-987 TEMPLATE (WITH TRIM.)
7. FOR MOUNTING AND ADJUSTMENTS OF THE 2086E SEE OPPOSITE SIDE THIS PAGE. (DWG. 10-1010 SHEET 1 OF 2)



VIEW #4

LOOKING UP AT HEADER

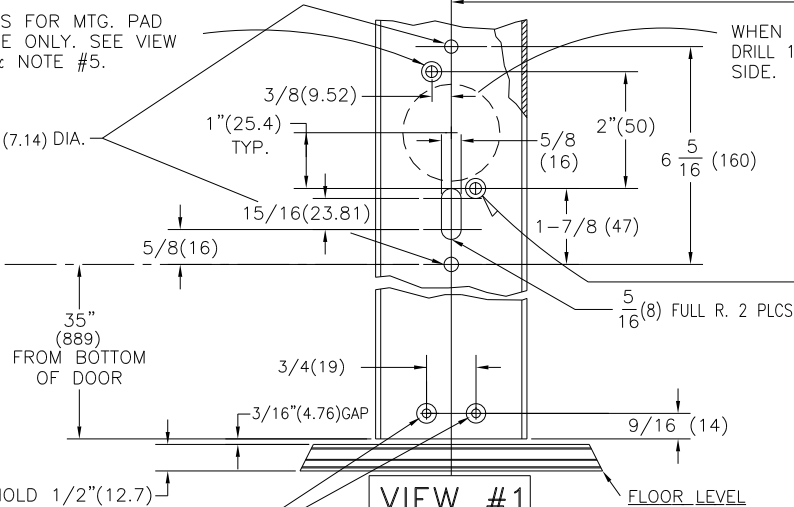


VIEW #5

OUTSIDE (LOCK SIDE) OF ACTIVE DOOR STILE SHOWING PREP. WHEN USING #86 LOCK CYLINDER MOUNTING PAD.

5. HOLES FOR MTG. PAD USAGE ONLY. SEE VIEW #5 & NOTE #5.

DRILL $\frac{9}{32}$ (7.14) DIA.



VIEW #1

PANIC SIDE ACTIVE STILE

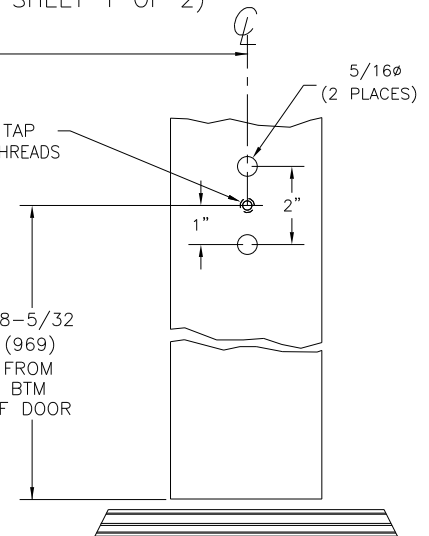
DRILL & C'SINK FOR 10-32x1/2(12.7) SELF-TAP SCR. (2 PLCS.)

WHEN USING 86 LOCK ONLY DRILL 1-13/32 (35) DIA. OPPOSITE SIDE.

WHEN USING (86 LOCK) ONLY DRILL & C'SINK FOR #8 FHMS FRONT SIDE. DRILL CLEARANCE FROM OPPOSITE SIDE 2 PLACES

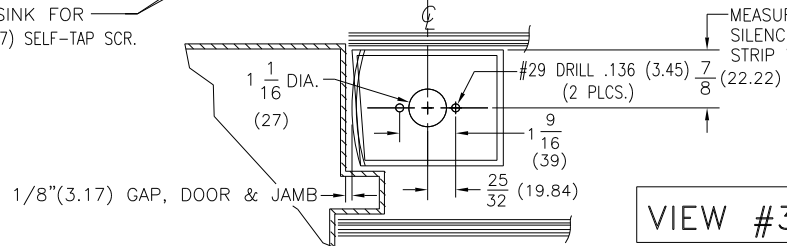
DRILL & TAP 1/4-20 THREADS

38-5/32 (969) FROM BTM OF DOOR



VIEW #2

HINGE SIDE VERTICAL STILE PANIC SIDE



VIEW #3

LOOKING DOWN ON THRESHOLD

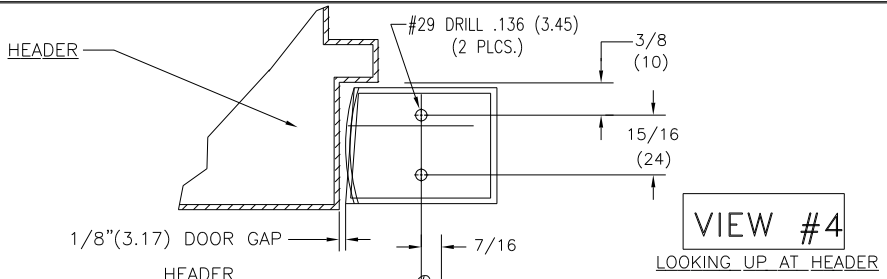
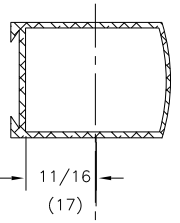
FILE NO. 10-1010-2
NEXT ASSY. 208E-KITS
QTY. USED

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED	APPROVALS	DATE
DECIMAL DIMENSIONS .XX ± .010	APPROVED	
DECIMAL DIMENSIONS .XXX ± .005	CHECKED	
ANGULAR ± ° FRACTIONAL ± 1/64	DRAWN RM	07/31/02
MATERIAL	SCALE	NONE
FINISH	ROUTING INSTRUCTIONS	
HEAT TREAT	2086E CVR PANIC DEVICE	

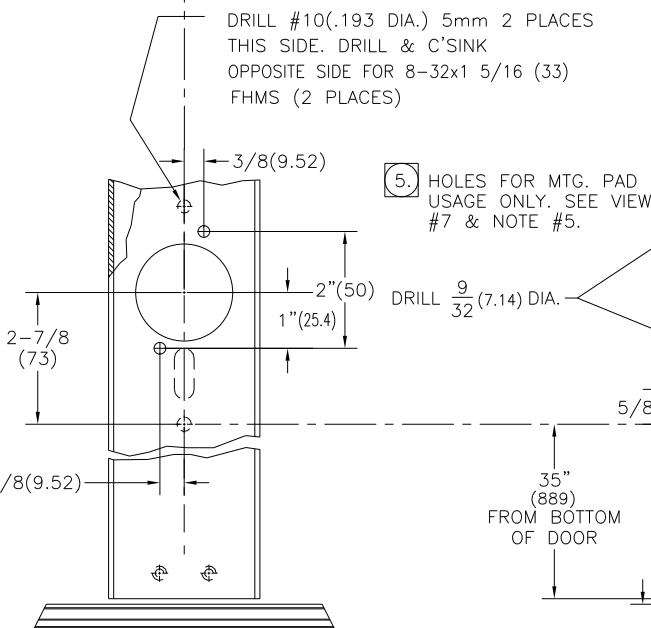


ROUTING INSTRUCTIONS:

1. PREPARE INSIDE FACE (PANIC SIDE) OF ACTIVE STILE PER VIEW #1 & TEMPLATE 10-992.
2. PREPARE INSIDE FACE (PANIC SIDE) OF HINGE STILE PER VIEW #2 & TABLE "A".
3. PREPARE THRESHOLD PER VIEW #3.
4. PREPARE HEADER PER VIEW #4.
5. IF LOCK CYLINDER IS BEING USED SEE DWG. 10-476 TEMPLATE (WITH MTG PAD)
6. IF OUTSIDE TRIM IS BEING USED, SEE DWG. 10-987 TEMPLATE (WITH TRIM.)
7. FOR MOUNTING AND ADJUSTMENTS OF THE 2085E SEE OPPOSITE SIDE THIS PAGE. (DWG. 10-1028 SHEET 1 OF 2)

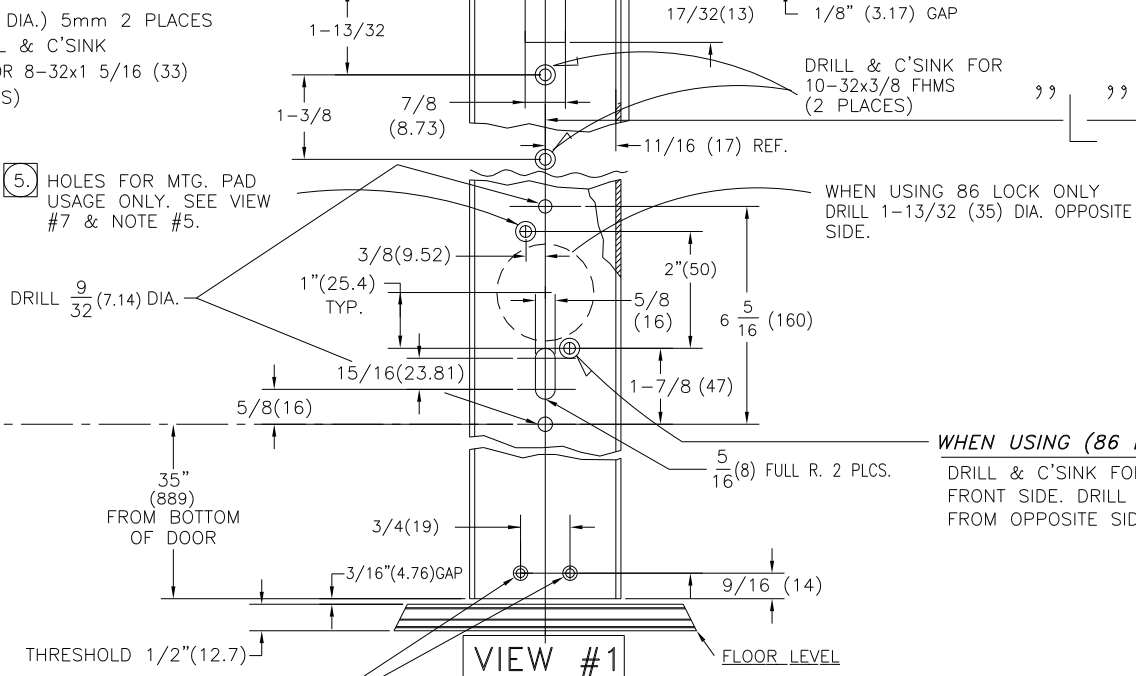


VIEW #4
LOOKING UP AT HEADER



VIEW #7

OUTSIDE (LOCK SIDE) OF ACTIVE DOOR STILE SHOWING PREP. WHEN USING #86 LOCK CYLINDER MOUNTING PAD.

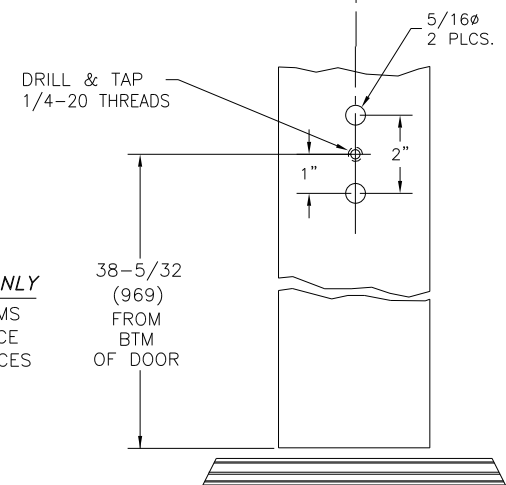


VIEW #1
PANIC SIDE ACTIVE STILE

DRILL & C'SINK FOR 10-32x1/2(12.7) SELF-TAP SCR. (2 PLCS.)

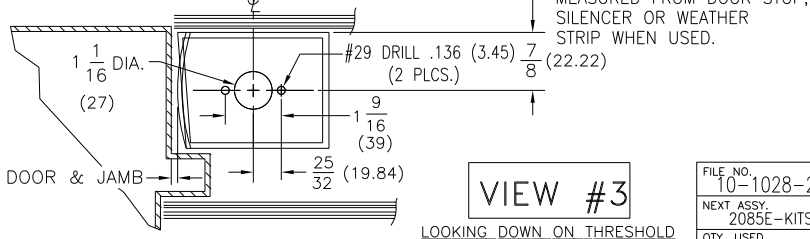
WHEN USING 86 LOCK ONLY DRILL 1-13/32 (35) DIA. OPPOSITE SIDE.

WHEN USING (86 LOCK) ONLY DRILL & C'SINK FOR #8 FHMS FRONT SIDE. DRILL CLEARANCE FROM OPPOSITE SIDE 2 PLACES



VIEW #2

HINGE SIDE VERTICAL STILE PANIC SIDE



VIEW #3

LOOKING DOWN ON THRESHOLD

DOOR OPENING	33-13/32" (848)
36" (914)	33-13/32" (848)
42" (1066)	39-13/32" (1009)
48" (1219)	45-13/32" (1162)

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		APPROVED	DATE
DECIMAL DIMENSIONS .XX ± .010	CHECKED		
DECIMAL DIMENSIONS .XXX ± .005	DRAWN	RM	04/20/01
ANGULAR ± ° FRACTIONAL ± 1/64	SCALE	NONE	
MATERIAL	FINISH	ROUTING INSTRUCTIONS	
FILE NO. 10-1028-2	HEAT TREAT	2085E CVR PANIC DEVICE	
NEXT ASSY. 2085E-KITS		SHEET 2 OF 2 SHEETS	REV.
QTY. USED		DWG. NO. 10-1028-2	A



MOUNTING INSTRUCTIONS:

1. PREPARE DOOR, HEADER AND THRESHOLD PER DWG. 10-1028-2 OPPOSITE SIDE OF THIS PG. AND TEMPLATE 10-992
2. INSTALL ROD & CASE ASS'Y WITH TOP LATCH CASE INTO ACTIVE STILE. SECURE ROD & CASE ASS'Y WITH 2 EA. 1/4-20 SHOULDER BOLTS. NOTE: DO NOT SECURE TOP LATCH CASE TO STILE AT THIS TIME.
3. INSTALL BOTTOM STRIKE PLATE ON THRESHOLD WITH 2 EA. #8x3/4(19) SELF TAPPING SCREWS.
4. INSTALL 1 EA. 1/4-20 SHOULDER BOLT ON INACTIVE STILE. (REF. 10-1014 FOR ACTUAL INACTIVE DRILL TEMPLATE)
(IF LOCK CYL. IS NOT BEING USED SKIP NOTE #5.)
5. INSERT LOCK CYLINDER INTO LOCK MTG. PAD AND SECURE WITH LOCK RING. POSITION LOCK CYLINDER MTG. PAD ON OUTSIDE (LOCKSIDE) OF ACTIVE STILE & SECURE WITH 2 EA. 8-32x1-15/16(49) FHMS. IF TRIM IS BEING USED FOLLOW INSTRUCTION GUIDE 10-990 WITH TRIM.
6. UN-DOG PANIC DEVICE PER INSTRUCTIONS ON ACTIVE PAD
7. PLACE ACTUATOR LINK ONTO LEVER PINS (REF. DETAIL "A").
8. BEING SURE THERE IS A POSITIVE ENGAGEMENT OVER EA. END OF GROOV-PIN.
INSTALL PANIC DEVICE ON STILES ASSURING ACTUATOR LINK ENGAGES ACTUATOR PIN AS SHOWN PER DETAIL "A". TIGHTEN (2) SET SCREWS ON ACTIVE PAD (1) EA. ON INACTIVE PAD.
9. FOR POWER SUPPLY AND WIRING DIAGRAM, SEE DWG. 10-1003

ADJUSTMENTS:

1. **TOP LATCH:**
PANIC MUST BE IN THE DOGGED POS. TO COMPLETE THE FOLLOWING ADJUSTMENTS.
2. POSITION TOP LATCH INTO THE OPEN POS. PER DETAIL "B" & ROTATE TOP LATCH CASE UNTIL MTG. HOLES ON LATCH CASE ARE OFF-CENTER TO C'SUNK HOLES ON ACTIVE STILE AS SHOWN PER DETAIL "D". SECURE CASE WITH (2) EA. 10-32x1/4(6) FHMS.

BOTTOM BOLT ADJUSTMENT:

1. WITH PANIC UN-DOGGED FULL DEPRESS TOUCH BAR, BOTTOM ROD WILL RETRACT & LATCH WILL ROTATE TO THE UNLOCKED POS. PER DETAIL "B". WITH LATCH IN THIS POS. ADJUST BOTTOM BOLT PER DETAIL "Z".
2. INSTALL BOLT GUIDE & SECURE WITH (2) EA. #10 SELF TAPPING SCREWS.

MANUAL CHECK:

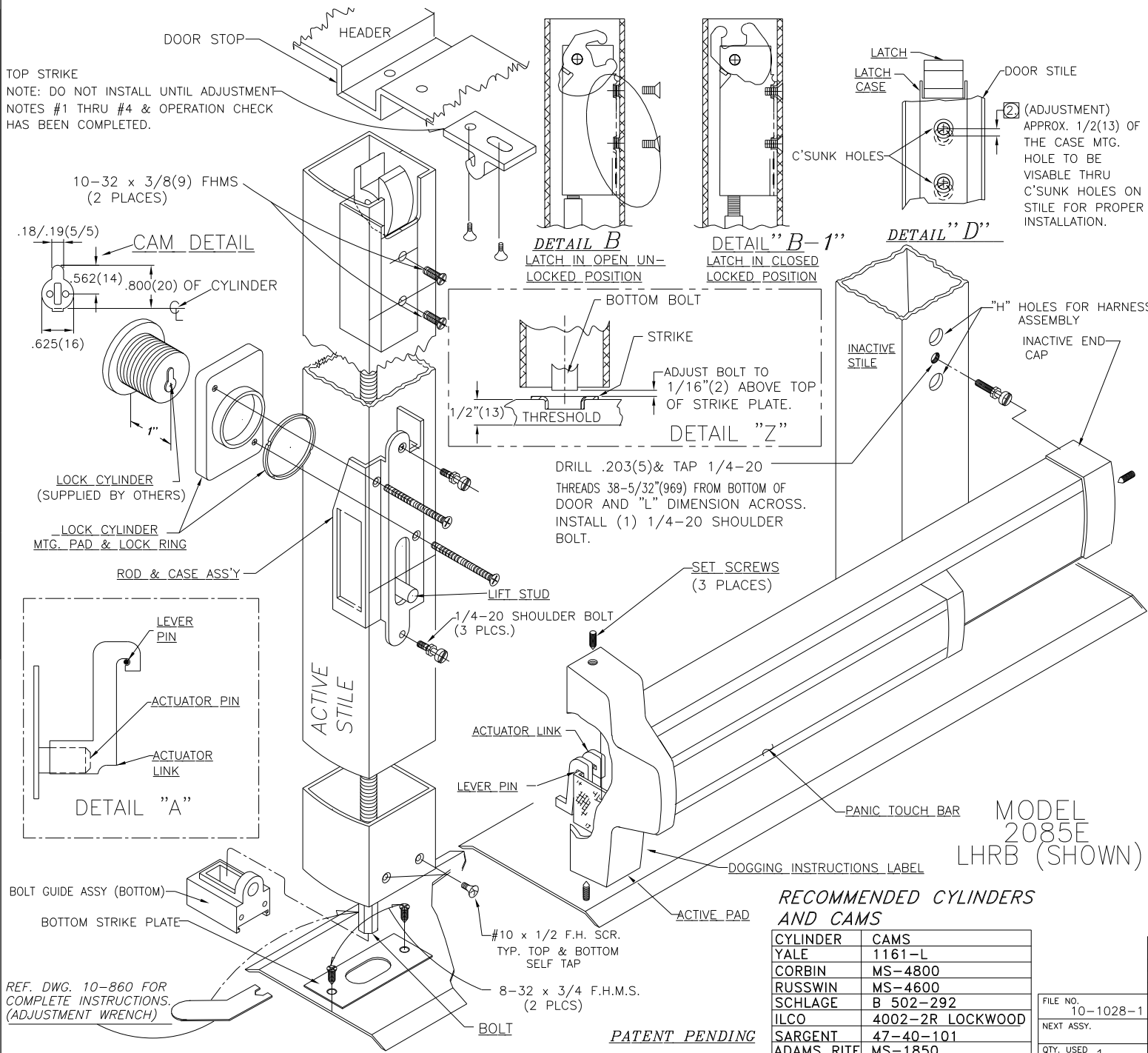
UN-DOG PANIC DEVICE, MANUALLY POSITION TOP LATCH TO THE LOCKED OR CAPTURED POS. PER DETAIL "B-1"(BOTTOM BOLT WILL THEN EXTEND.)

OPERATIONS CHECK:

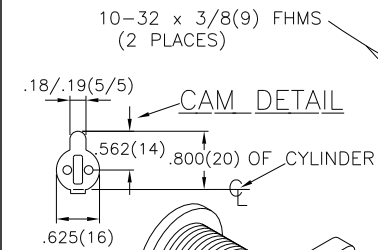
DEPRESS PANIC TOUCH BAR FULLY, BOTTOM BOLT SHOULD RETRACT TO BTM. EDGE OF DOOR STILE, TOP LATCH WILL WIND UP IN THE OPEN POSITION (DETAIL "B").

**** IMPORTANT:** IF TOP LATCH POSITIONS ITSELF TO THE OPEN POS. WITH TOUCH BAR ONLY BEING PARTIALLY DEPRESSED, OR IF TOP LATCH DOES NOT GO TO THE OPEN POS. WHEN TOUCH BAR IS FULLY DEPRESSED, REDOG PANIC & REPEAT STEPS 1 THRU 3 IF TOP LATCH IS RE-ADJUSTED BTM. BOLT MUST BE RE-ADJUSTED PER DETAIL "Z" AS WELL.

2. WHEN SYTEM WORKS PROPERLY, INSTALL TOP STRIKE WITH OVAL C'SUNK HOLES TOWARDS DOOR STOP.



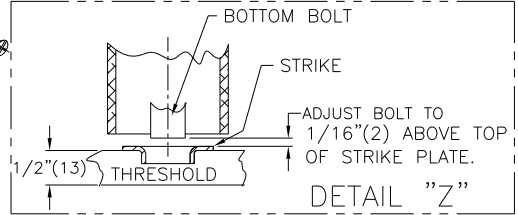
TOP STRIKE
NOTE: DO NOT INSTALL UNTIL ADJUSTMENT NOTES #1 THRU #4 & OPERATION CHECK HAS BEEN COMPLETED.



DETAIL B
LATCH IN OPEN UN-LOCKED POSITION

DETAIL "B-1"
LATCH IN CLOSED LOCKED POSITION

DETAIL "D"



DRILL .203(5) & TAP 1/4-20 THREADS 38-5/32"(969) FROM BOTTOM OF DOOR AND "L" DIMENSION ACROSS. INSTALL (1) 1/4-20 SHOULDER BOLT.

MODEL 2085E LHRB (SHOWN)

RECOMMENDED CYLINDERS AND CAMS

CYLINDER	CAMS
YALE	1161-L
CORBIN	MS-4800
RUSSWIN	MS-4600
SCHLAGE	B 502-292
ILCO	4002-2R LOCKWOOD
SARGENT	47-40-101
ADAMS RITE	MS-1850

FILE NO.	10-1028-1
NEXT ASSY.	
QTY. USED	1
MATERIAL	NONE
FINISH	NONE
HEAT TREAT	

APPROVALS	DATE
APPROVED	
CHECKED	
DRAWN	RM
SCALE	NONE
INSTALLATION GUIDE	
2085E PANIC DEVICE & 1900 TOP LATCH	

jackson CORPORATION
3447 UNION PACIFIC AVE.
LOS ANGELES, CALIF. 90023

SHEET 1 OF 2 SHEETS
DWG. NO. 10-1028-1
REV. A

REF. DWG. 10-860 FOR COMPLETE INSTRUCTIONS. (ADJUSTMENT WRENCH)

PATENT PENDING

11 pages



3447 Union Pacific Ave. • Los Angeles, CA 90023 • (323) 269-8111 • Fax (323) 269-1872 • E-Mail: jacksoncorp@jacksonexit.com

ELECTRIC LATCH RETRACTION CONTROLLER
INSTALLATION INSTRUCTIONS
REV. A

INSTALLATION

The 1406 enclosure should be securely fastened to the wall using the four-¼ inch diameter mounting holes located in the back of the box. Position the enclosure so that the transformer is located on the left-hand side. The 1406 must not be installed outdoors.

For the 120VAC power input, terminal block TB1 will accommodate up to 12 AWG wire. Conduit must be used to provide an adequate earth ground to the enclosure.

NOTE: The maximum input current is 750mA.

The 1406 is designed to be used with all ACSI 1550 exit devices modified for electric latch retraction. Use the chart below to determine the correct wire gauge per given length of two-conductor cable that will be run from the 1406 to each exit device. Do not exceed the maximum length listed with each wire gauge.

WIRE GAUGE CABLE	MAXIMUM LENGTH OF TWO-CONDUCTOR
16 AWG	40 FEET
14 AWG	60 FEET
12 AWG	100 FEET

Up to two devices can be used with the 1406. If only one device is to be used, wire to the "DEVICE ONE" location at TB3, terminals 5 and 6.

NOTE: Be sure to observe polarity when connecting devices 1 and 2 to TB3.
(Refer to the wiring diagram located on the lid of the controller.)

STANDARD OPERATION

The 1406 provide a choice of two methods of electric latch retraction: Single System or Dual System.

SINGLE SYSTEM LATCH RETRACTION

This method allows one input to control two devices sequentially. A momentary switch closure across terminals 1 and 2 of TB3 will retract DEVICE ONE first, followed by DEVICE TWO. Use this method for single door applications or on a pair of doors using a device on one or both leaves. The 1406 comes from the factory already all set up for this method.

DUAL SYSTEM LATCH RETRACTION (OPTIONAL)

This method allows independent control of DEVICE ONE and DEVICE TWO outputs by their own separate

Input. A momentary switch closure across terminals 1 and 2 of TB3 will retract DEVICE ONE only.

A momentary switch closure across terminals 7 and 8 of TB3 will retract DEVICE TWO. No more than

One device can be used per output. Use this option for applications requiring two single door systems or two pair door systems using one device on each pair of doors. To change over to the optional dual system latch retraction, move the program jumper PJ1 from between the middle post and the end post, marked "S" (SINGLE SYSTEM), to the middle post and the end post, marked "D" (DUAL SYSTEM).

NOTE: When using the optional method, DEVICE ONE and DEVICE TWO can never be activated at the same time in the event that both input switches are actuated simultaneously. If this should occur, DEVICE ONE will always activate first, followed by DEVICE TWO.

When using a momentary, normally open switch for activating latch retraction, adjust pot R2 (for DEVICE ONE) or pot R4 (for DEVICE TWO) on the p.c. board to the desired latch retract delay time from 1 to 20 seconds. Turn the pot clockwise to increase the delay time.

When using normally open contacts from a keypad, card reader or a maintain switch, turn pot R2 (or R4) fully counterclockwise to the minimum delay time. A contact closure will activate latch retraction. Upon opening the contacts, the device will latch within one second.

Each modified exit device contains a pulse module which delivers a pulse at 24VDC to a high current coil inside the exit device every 6 seconds until the latch is finally pulled back all the way. At this point, a control rod passes over a reflective sensor and signals the module to stop pulsing. There is always an initial

pulse that occurs at the moment the system is activated. During the period the system remains activated, 24VDC is applied to a low current secondary coil. This coil is responsible for holding the latch in the retracted position until instructed to return to the "fail secure" position (See note 2 on page 4.)

OPERATION WITH AUTOMATIC DOOR OPERATOR

The 1406 is provided with two outputs (one output associated with DEVICE ONE and the other output associated with DEVICE TWO) for controlling separate automatic door operators. Each output consists of normally open relay contacts that are field wired directly to the "DOOR ACTIVATION" input of the automatic door operator. These outputs are activated within a moment after activation of their corresponding devices to allow time for the doors to be fully unlatched before automatic opening begins.

Time delay pots R2 and R4 are factory set at 5 seconds, which are appropriate when using this controller with automatic door operators. When the delay times out, power is removed from the exit device and the signal to the auto door operator input is terminated, thus allowing the operator's "DOOR HOLD OPEN" delay to time out and close the door.

NOTE: When using the single system latch retraction method with automatic door operator interface and both devices are being used, the operator control input must be wired to the 1406 automatic door operator output for DEVICE TWO (TB3, terminals 9 and 10).

OPERATION WITH FIRE ALARM

The 1406 can be wired to the fire alarm relay normally closed contacts. When a fire alarm occurs, any door that is currently unlatched, whether by momentary time delay or by maintained switch, will immediately latch secure. During the time that the fire alarm is active, electronic control of the automatic door opening system by wall switch, card reader, keypad, etc., is disabled. The door then can only be opened manually.

The 1406 comes from the factory set up for use without fire alarm interface. If the fire alarm is to be used with this controller, move the program jumper PJ2 from between the middle post and the end post, marked "FA DIS" (Fire Alarm Disabled), to the middle post and the end post, marked "FA EN" (Fire Alarm Enabled).

NOTE: Maximum current through fire alarm relay contacts is 120mA @ 24VDC

AUXILIARY POWER SOURCE OUTPUTS

Electrified Latch Retraction Specifications:

Solenoid

- Continuous or Intermittent Duty 24 VDC *5 amps*
- Current Inrush Requirements (Approx. 300 Milliseconds) 10 Amps.
- Continuous holding (Approx. 300 Millamps) ~~5~~ ⁴ Amps. *5*

Jackson Electrified latch retraction provides remote and localized unlocking of the 20 series exit devices.

This feature is available with the 2085 concealed vertical rod and the 2095 rim exit device.

A continuous duty solenoid retracts the latch bolt for momentary or continuous periods of time.

The Electrified device can be used with automatic door operation, as well as automatic fire alarm system.

Jackson Electrified exit devices are always fail secure, in the event of a power failure the door will remain secure while allowing immediate egress.

A continuous electric transfer must be used for transferring power from the frame to the door.

pulse that occurs at the moment the system is activated. During the period the system remains activated, 24VDC is applied to a low current secondary coil. This coil is responsible for holding the latch in the retracted position until instructed to return to the "fail secure" position (See note 2 on page 4.)

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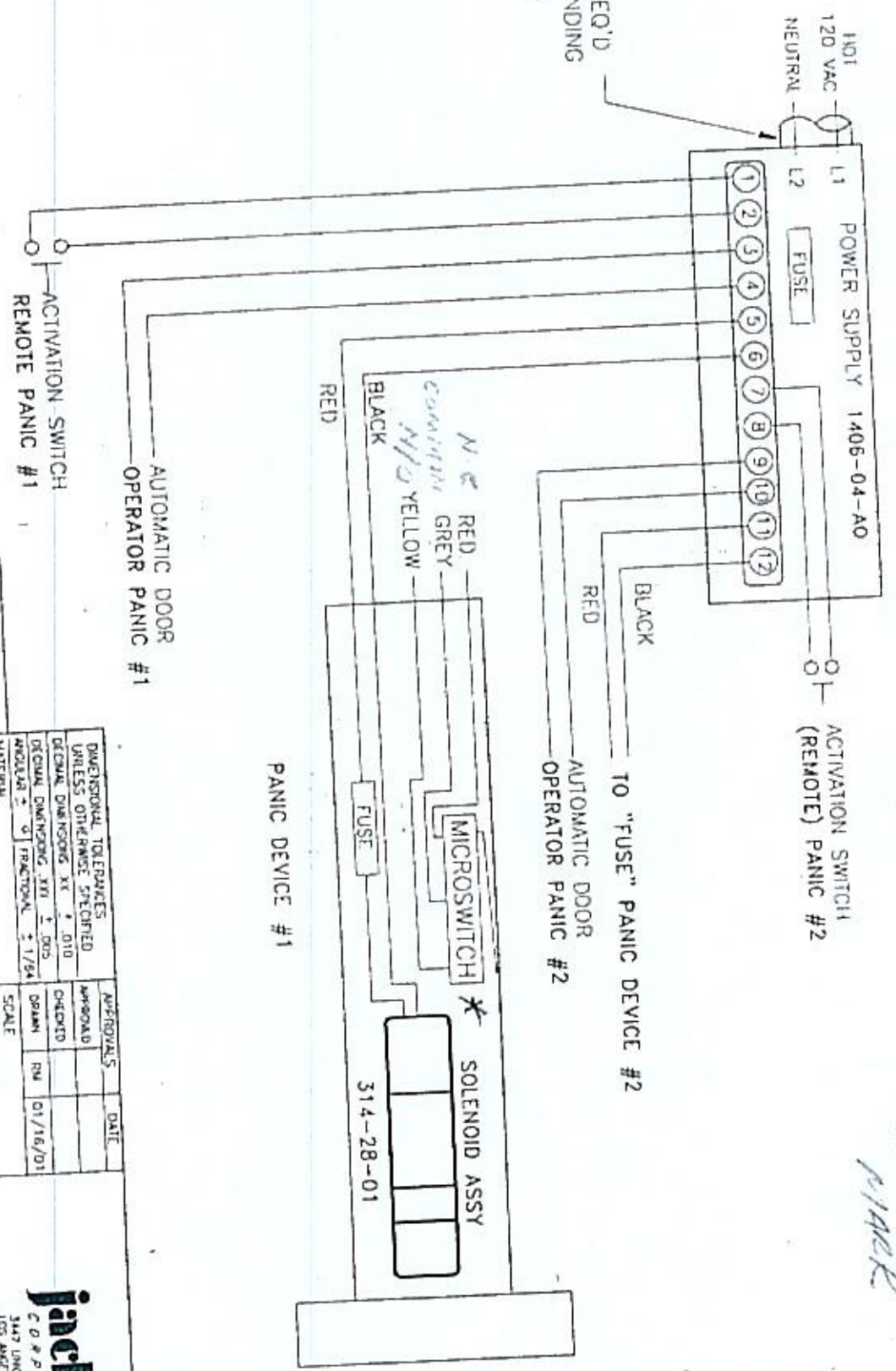
NOTE: Maximum current through fire alarm relay contacts is 120mA @ 24VDC

AUXILIARY POWER SOURCE OUTPUTS

Randy 24VDC

ATTN: PLACK

CONDUIT REQ'D FOR GROUNDING PULL BOX.



FILE NO.		APPROVALS	DATE
NEXT ASSY.		APPROVAL	
QTY. USED		CHECKED	
		DRAWN	01/16/01
		SCALE	
SCHEMATIC 2000E SERIES EXIT DEVICES		3147 LINCOLN PROJECT BLDG. LOS ANGELES, CALIF. 90032	
10-1003		SHEET 1 OF 1 SHEETS	
C		DWG. NO.	





ELECTRIFIED 20 SERIES EXIT DEVICE



2085 EL
2086 EL
2095 EL



Power Supply
#30-2616

TECHNICAL INFORMATION

APPLICATION

- Aluminum or Hollow Metal Doors.

FEATURES

- Fail-secure operation
- Remote locking and unlocking capability
- Solenoid operated latch retraction
- Adjust for brief or extended unlocking periods (to replace manual dogging)
- Ideal for after hour card access, automatic fire alarm systems, automatic doors, etc.
- For information on standard 20 series features, see page B-8
- 10 Amp Inrush Power Supply Regulator.
- 24 Volt DC continuous duty solenoid.
- Jackson power supply recommended (30-2616)

MATERIALS

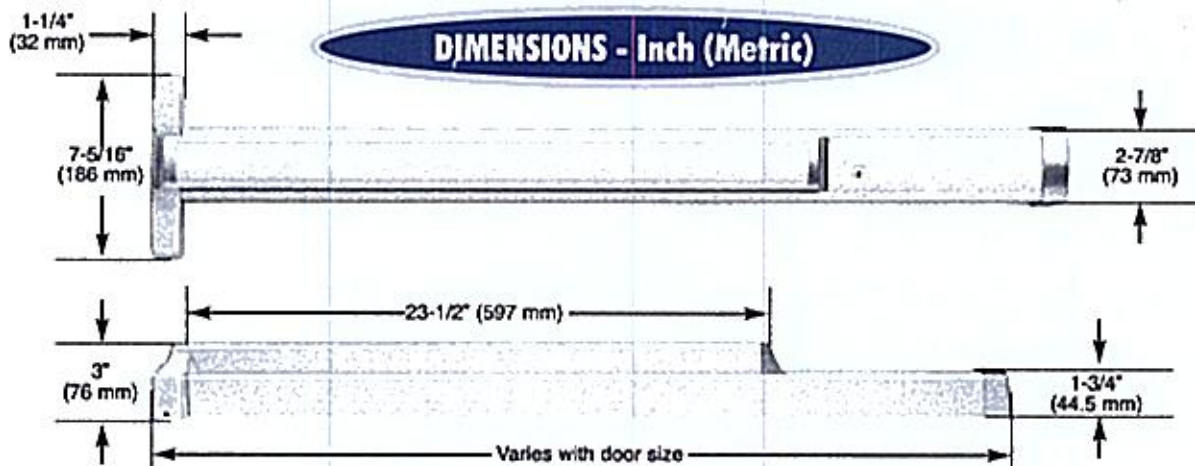
Base Extrusion	.....	Extruded Aluminum
Push Pad	.....	Extruded Aluminum
Active Housing & End Caps	...	Die Cast Aluminum
Mechanical Components	.....	Stainless & Hardened Steel
Top and Bottom Bolts	.....	Plated Hardened Steel
Top & Rim Latch	.....	Sintered Steel
Strikes	.....	Sintered Steel

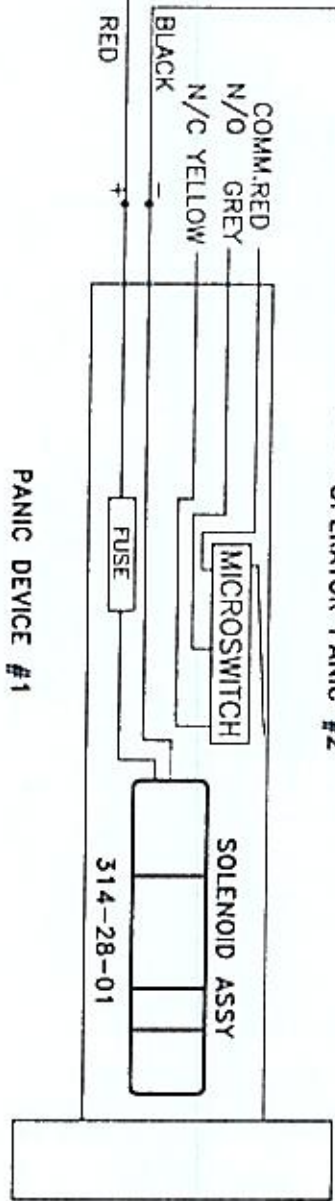
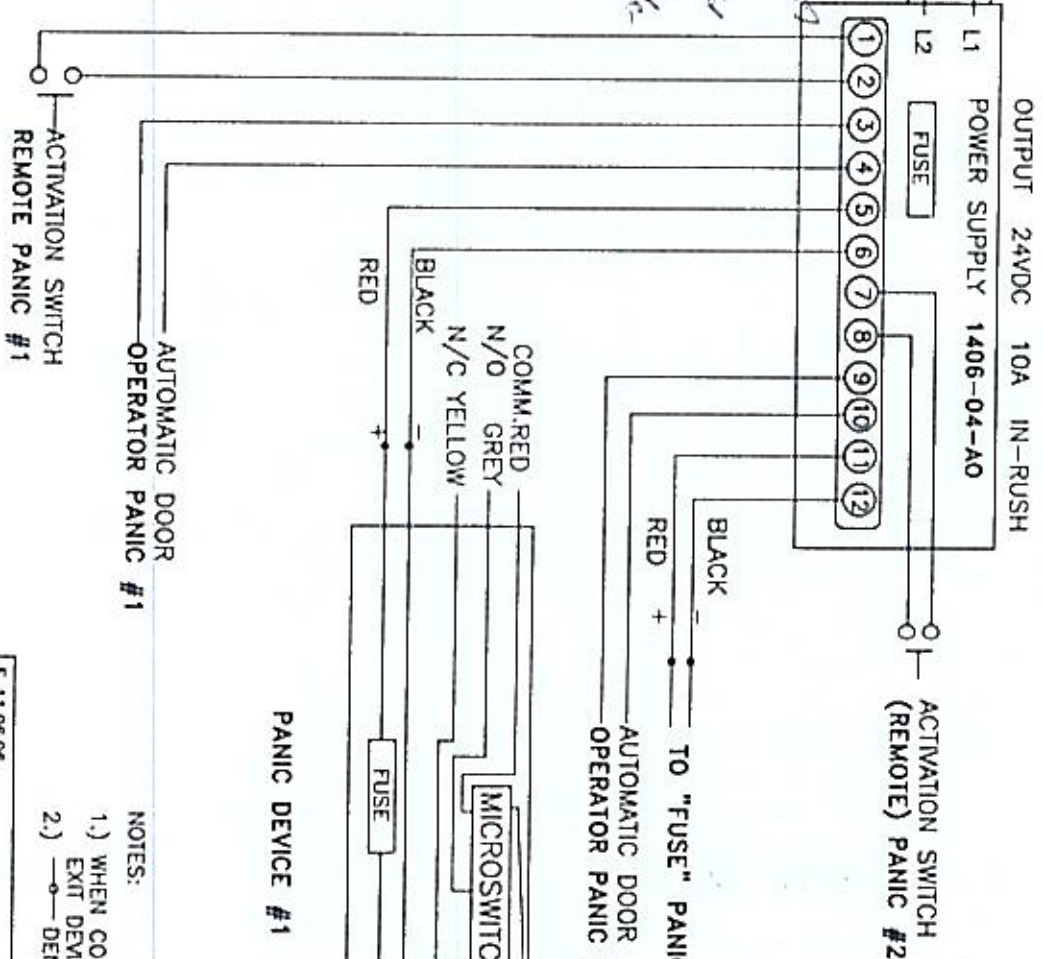
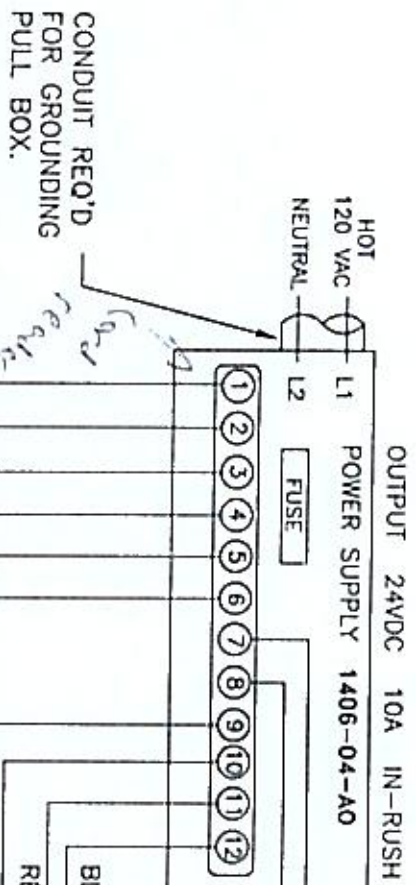
FINISH

Standard Anodized Finish:	DBZ 313	- Dark Bronze
	US28/628	- Satin Aluminum
Standard Architectural Finish:	US26/625	- Polished Chrome
	US3/605	- Polished Brass

WIRING RUN-DO NOT EXCEED MAXIMUM LENGTH

16 AWG.....	40 FEET
14 AWG.....	60 FEET
12 AWG.....	100 FEET





- NOTES:
- 1.) WHEN CONTACTS OF TIME CLOCK OR OVERRIDE SWITCH CLOSE, EXIT DEVICE LATCH BOLTS WILL CLOSE.
 - 2.) —○— DENOTES A FIELD WIRE CONNECTION.

9201 2EL 215

E 11.06.06		REVERSE CODE STATUS		ECH1934		RM	
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		APPROVALS	DATE	SCHEMATIC 2000E SERIES		SHEET 1 OF 1 SHEETS	
DECIMAL DIMENSIONS ± .010	APPROVED			EXIT DEVICES		DWG. NO. 10-1003	
ANGULAR DIMENSIONS ± 1/64	CHECKED					REV	
SCALE	DATE						
MATERIAL	FINISH						
QTY. USED	HEAT TREAT						



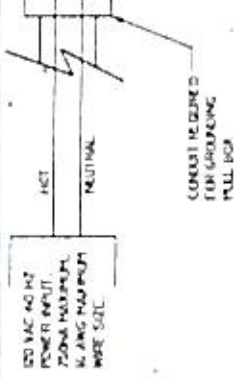
POT R2 & R4 SET AT 5 TO 6 SEC UNLOCK TIME,
 WHEN USING CARD READER AND ANOTHER 5 SEC DELAY,
 NEW ADJUSTMENT CAN BE DONE, INCREASE CW DECREASE CCW,
 DIPPER BETWEEN POTS FOR RATE OF DOOR CONTROL (R2, R4)

MOUNTING POSITION TOP

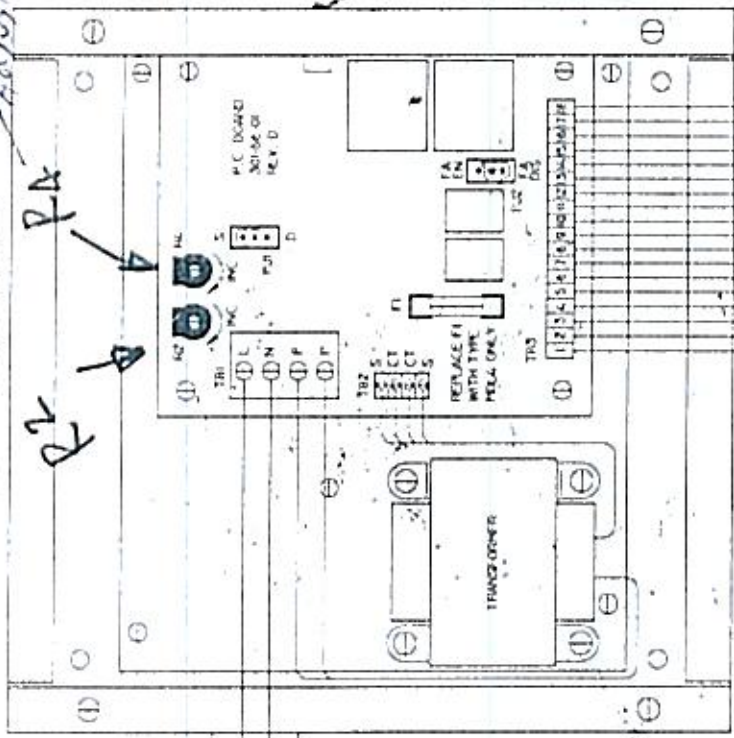
Adjust open time

TYPICAL WIRING DIAGRAM
 FOR 1406 01-AO ELECTRIC
 LATCH RETRACTION
 CONTROLLER.
 USE INSTALLATION
 INSTRUCTIONS I.D. 1089.

CONTROLLER INTENDED
 FOR INDOOR USE ONLY.



LISTED
 4M73
UL
 ACCESS
 CONTROL
 SYSTEM UNIT
 ACCESSORY
 MODEL 906
 MFG. DATE 9/11



RED LED
 POWER
 INDICATOR

ARCHITECTURAL
 CONTROL SYSTEMS
 INCORPORATED
 ST. LOUIS, MISSOURI



ADJ. LAMP USE GLASS TO DC OUTPUT #2
 20-24V - 75 CV NOMINAL, 200MA (MAX.)

ADJ. LAMP USE GLASS TO DC OUTPUT #1
 20-24V - 75 CV NOMINAL, 200MA (MAX.)

DO NOT USE FIRE ALARM N.C. CONTACTS
 CONTACT CONTACT: 200MA @ 24V DC

NOTES

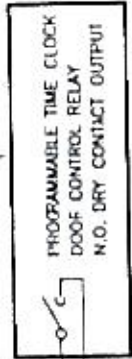
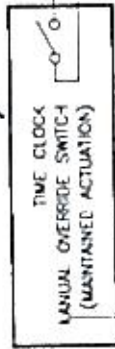
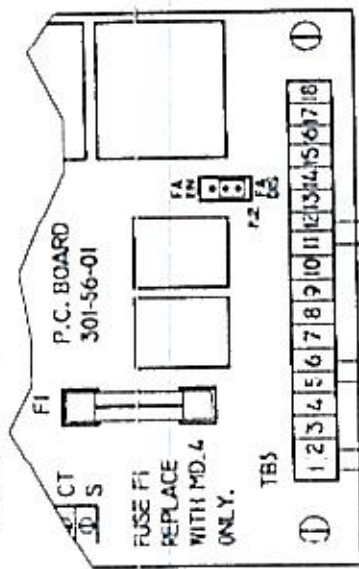
- DO NOT WIRE MORE THAN ONE EXIT DEVICE TO THIS OUTPUT.
- DO NOT Tie THE ALARM OUTPUT #1 GROUND (TRB, TERMINAL B) COMMON TO THE ALARM OUTPUT #2 GROUND (TRB, TERMINAL B). BOTH OF THESE POWER SOURCES MUST BE ISOLATED FROM EACH OTHER.

POWER SUPPLY 30-2616
 FOR 2086E

3/08

1406-04-AD LATCH RETRACTION CONTROLLER

NOTE: REFER TO WIRING DIAGRAM ON COVER PLATE AND I.D. TORQ INSTALLATION INSTRUCTIONS FOR MAKING CONNECTIONS TO 120VAC POWER INPUT.



NOTES:

- 1.) WHEN CONTACTS OF TIME CLOCK OR OVERRIDE SWITCH CLOSE, EXIT DEVICE LATCHBOLTS WILL RETRACT.
- 2.) —●— DENOTES A FIELD WIRE CONNECTION.