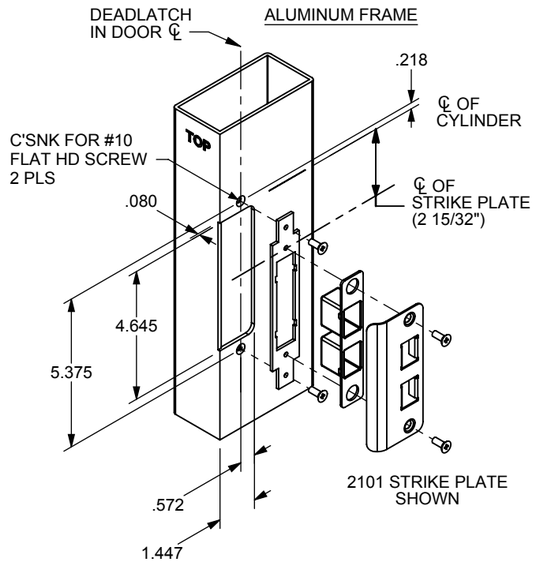
1 STRIKE PREPARATION

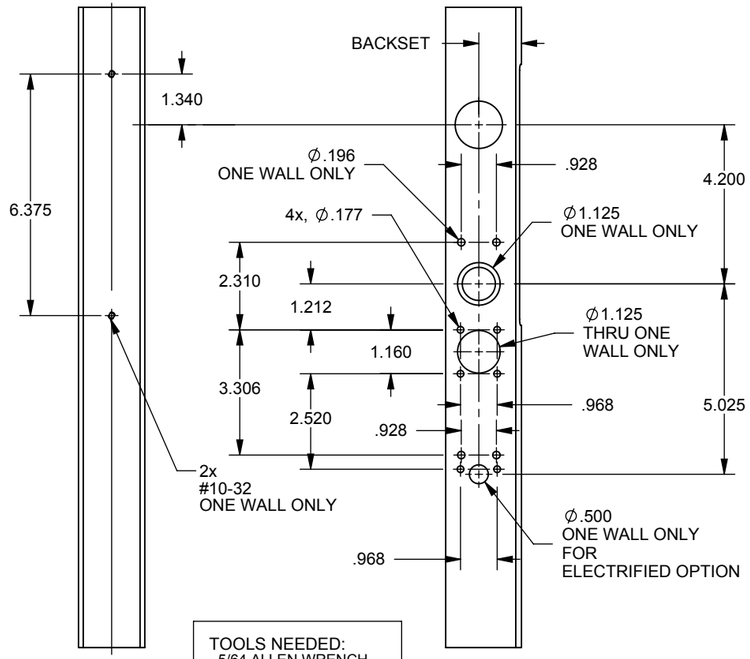


INSTALLATION OF STRIKE

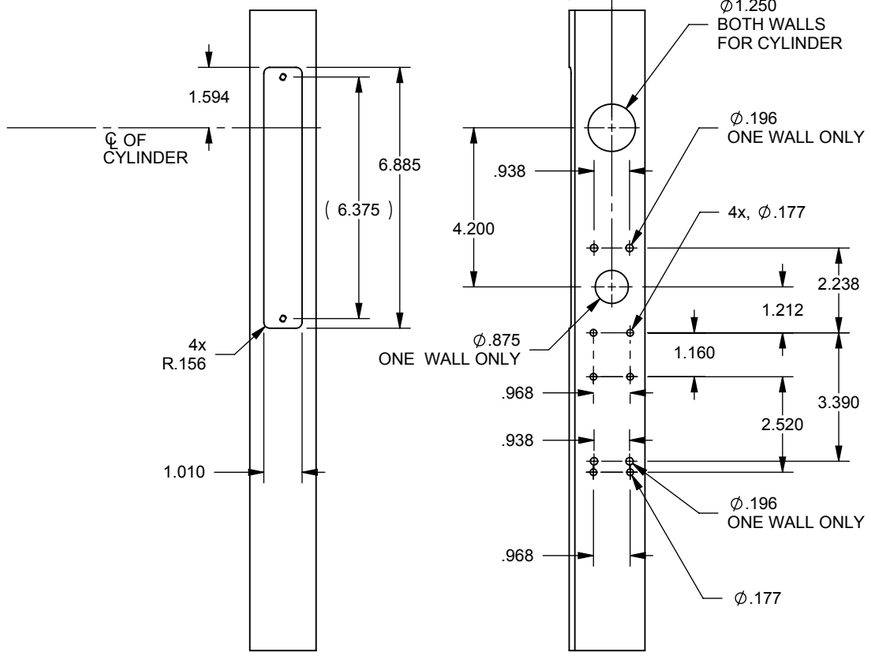
- INSERT MOUNTING BACK PLATE BEHIND JAMB AND FASTEN WITH #10 FLAT HEAD SCREWS.
- INSERT TRIM BOX WITH 2101 STRIKE PLATE AND FASTEN WITH #10 FLAT HEAD SCREWS TO BACK PLATE AS SHOWN.

OUTSWING LOCK STILE PREPARATION ONLY

FOR INSWING DOORS USE SMALL FORMAT LEVERS (4600) AND REFER TO 4600 INSTRUCTION WITH 2190



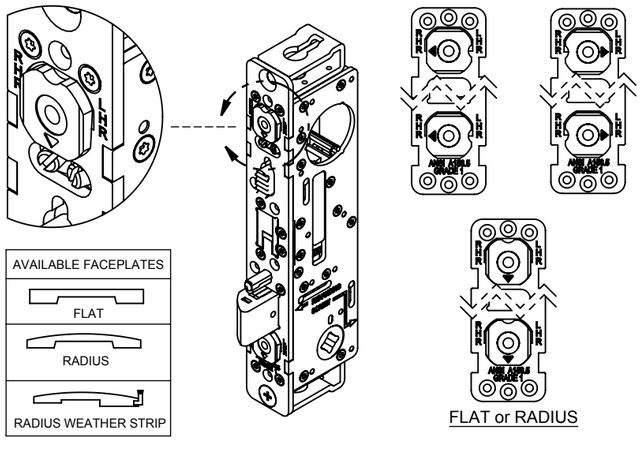
TOOLS NEEDED:
- 5/64 ALLEN WRENCH
- 3/32 ALLEN WRENCH
- 1/8 ALLEN WRENCH
- #9 DRILL BIT (.196 Ø)
- #16 DRILL BIT (.177 Ø)
- 7/8 DRILL BIT (.875 Ø)
- 1-1/8 DRILL BIT (1.125 Ø)



- APPLY STICK ON TEMPLATE OVER CYLINDER BACKSET CENTER LINE.
  NOTE: EACH TEMPLATE IS LABELED FOR OUTSIDE OR INSIDE TRIM.
- CENTER PUNCH ALL HOLES.
- DRILL HOLES AT CENTER PUNCH LOCATIONS. REMOVE TEMPLATE.
- INSTALL 2190 PER INSTALLATION INSTRUCTIONS.

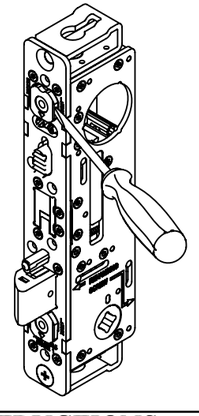
2 BEVEL TABS ADJUSTMENT

- ROTATE BEVEL TABS TO DESIRED HANDING. USING THE BEVEL ADJUSTMENT ALLOWS THE FLAT. FACEPLATE TO WORK IN BEVEL STILES



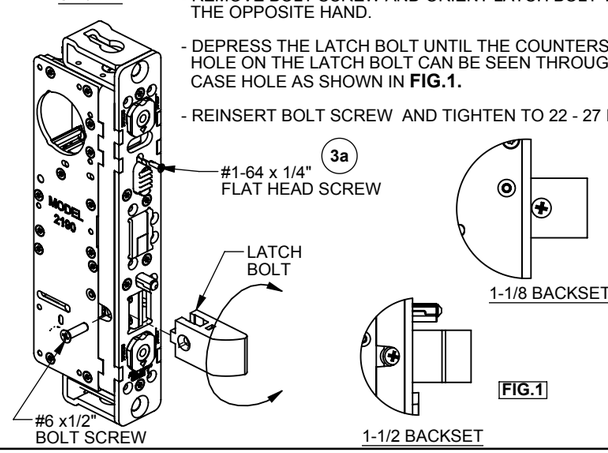
FOR RADIUS FACEPLATE WITH WEATHERSEAL ONLY !

- WITH A SMALL FLAT HEAD SCREWDRIVER, PRY OFF BEVEL TABS AS SHOWN.



3 TO CHANGE THE HANDING ON LATCH BOLT:

- DEPRESS THE LATCHBOLT UNTIL BOLT SCREW CAN BE SEEN THROUGH CASE HOLE. (1-1/2" BACKSET ONLY).
- REMOVE BOLT SCREW AND ORIENT LATCH BOLT TO THE OPPOSITE HAND.
- DEPRESS THE LATCH BOLT UNTIL THE COUNTERSINK HOLE ON THE LATCH BOLT CAN BE SEEN THROUGH THE CASE HOLE AS SHOWN IN **FIG.1.**
- REINSERT BOLT SCREW AND TIGHTEN TO 22 - 27 IN-LB.



- YOU WILL ALSO HAVE TO RE-ORIENT THE INTER-CONNECT CAM:

a) LOOSEN THE #6-32 FLAT HEAD SCREW AT THE BOTTOM OF THE LOCK.

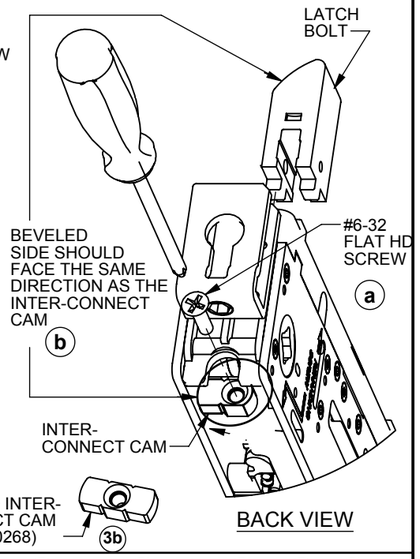
b) ROTATE THE INTER-CONNECT CAM TO THE SAME DIRECTION AS THE LATCH BOLT BEVEL. RETIGHTEN THE #6-32 FLAT HEAD SCREW TO COMPLETE THE OPERATION.

3a TO BLOCK HOLDBACK FEATURE:

- INSTALL #1-64 x 1/4" FLAT HEAD SCREW INTO CASE AS SHOWN BEFORE INSTALLING IN DOOR.

3b

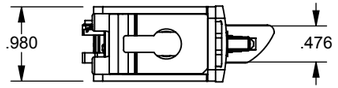
FOR APPLICATIONSTHAT REQUIRE RETRACTION OF THE DEADBOLT AND DEADLATCH FROM BOTH SIDES OF THE DOOR. REMOVE THE INTER-CONNECT CAM, AND INSTALL THE OPTIONAL DOUBLE INTER-CONNECT CAM.



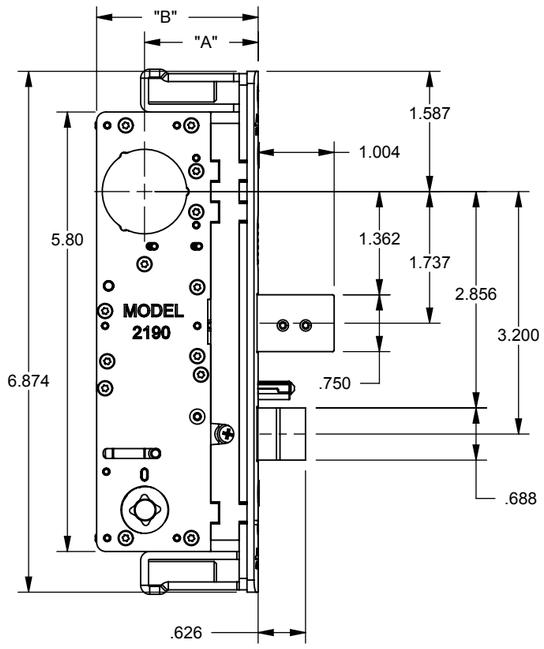
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2190 INSTALLATION INSTRUCTIONS
W/ HEAVY DUTY ENTRANCE LEVER SET

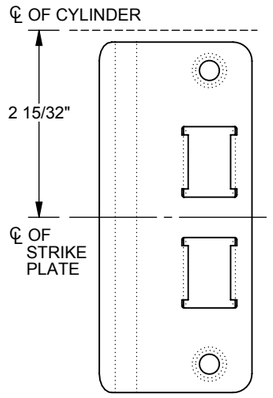
INSTALLATION INSTRUCTIONS



BACKSET	"A" DIM.	"B" DIM.
1-1/8"	1.12	1.76
1-1/2"	1.50	2.13

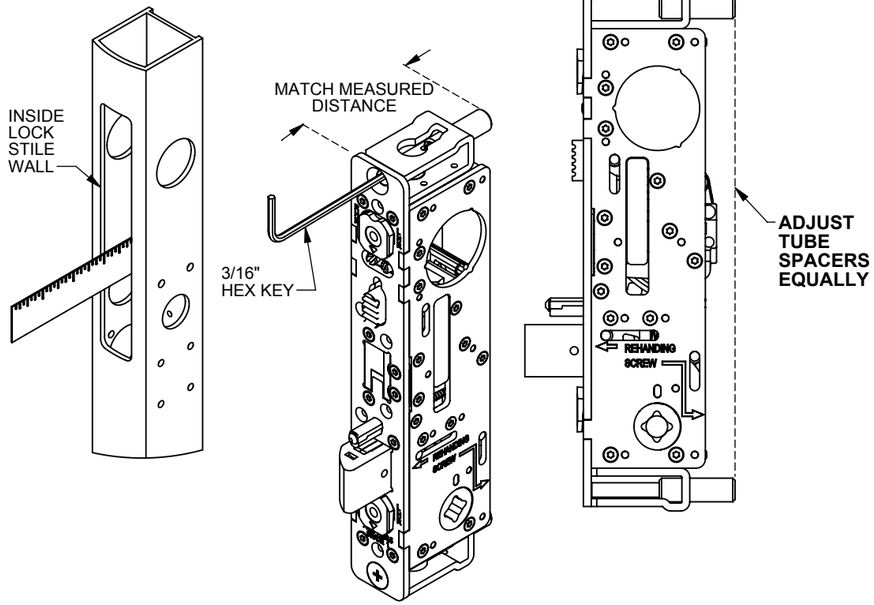


STRIKE PLATES ARE SHOWN AT FRONT SIDE FOR CLARITY



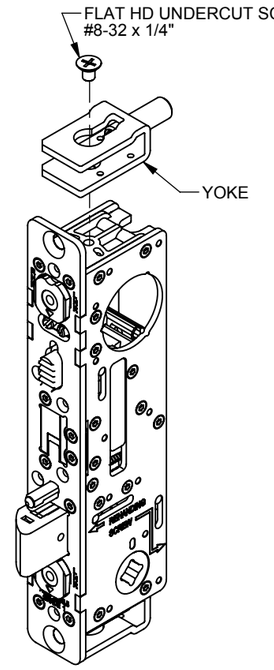
4 FOR TRADITIONAL MOUNTING INSTALLATIONS

- MEASURE THE DEPTH FROM THE BACK OF THE LOCK STILE TO THE INSIDE WALL OF THE LOCK STILE.
- MATCH THE DISTANCE FROM THE FACE OF MOUNTING PLATE TO END OF BOTH TUBE SPACERS.
- USE 3/16" HEX KEY FOR FINE ADJUSTMENT.



5 FOR MOUNTING TAB INSTALLATIONS

-REMOVE TOP AND BOTTOM FLAT HEAD UNDERCUT SCREW #8-32 x 1/4"AS SHOWN.THEN REMOVE YOKE. (MOUNTING TABS NOT INCLUDED).

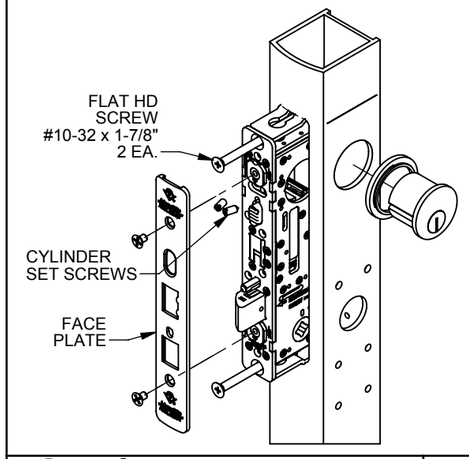


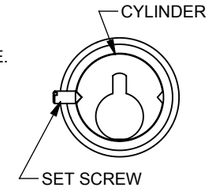
6 INSTALLING LOCK TO THE BACK OF THE STILE

- INSERT LOCK ASSEMBLY INTO LOCK STILE THRU CUTOUT.
- INSTALL AND FASTEN TWO (2) FLAT HEAD SCREWS #10-32 x 1-7/8" TO SECURE THE LOCK ASSEMBLY ON STILE.

7

- INSTALL CYLINDER AND SECURE WITH SET SCREWS.
- INSTALL FACE PLATE.

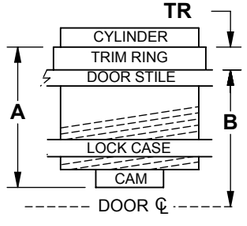




TR* = A - B

* TOLERANCE: ±.060

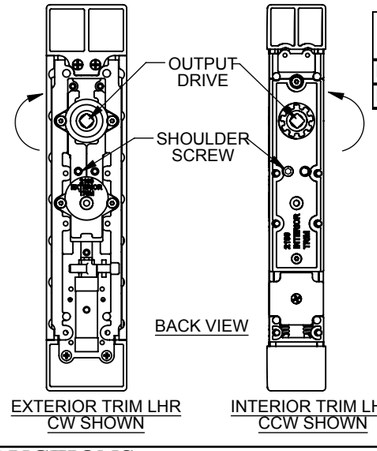
"TR" is trim ring length
"A" is cylinder height (less shoulder but including cam)
"B" is one-half of door thickness



8 HANDING CONFIGURATION FOR 2190 TRIM

- THE OUTPUT DRIVE FOR THE EXTERIOR TRIM IS SHIPPED FROM THE FACTORY IN A CLOCKWISE ROTATION AND THE INTERIOR TRIM IS SHIPPED WITH A COUNTER-CLOCKWISE ROTATION. TO CHANGE THE OUTPUT DRIVE ROTATION, FOLLOW THESE STEPS:
  1. REMOVE THE SHOULDER SCREW WITH A 5/64" ALLEN WRENCH.
  2. REINSTALL SHOULDER SCREW ON THE OPPOSITE SIDE.

REFER TO THE CHART BELOW FOR REHANDING THE TRIM AS NEEDED.

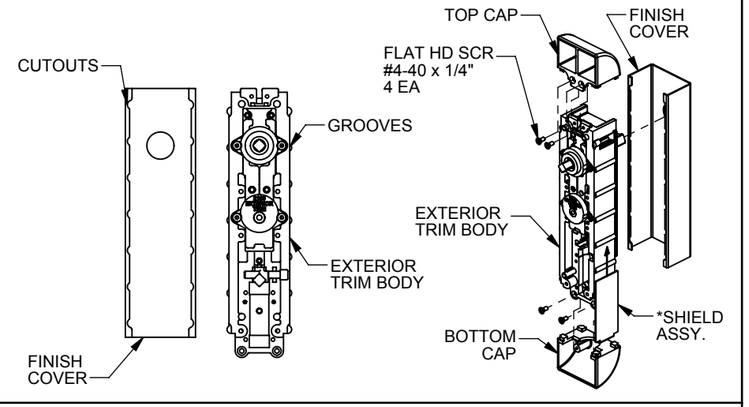


TRIM	HANDING -RHR	HANDING - LHR
	SPINDLE ROTATION	
EXTERIOR	COUNTER-CLOCKWISE	CLOCKWISE
INTERIOR	CLOCKWISE	COUNTER-CLOCKWISE

9 ASSEMBLE EXTERIOR TRIM

-SLIDE THE FINISH COVER ONTO BODY. THE COVER HAS CUTOUTS THAT FIT OVER THE GROOVES ON THE BODY.

- INSTALL TOP CAP WITH (2) FLAT HEAD SCREWS (#4-40 x1/4") SUPPLIED.
- *FOR EXTERIOR TRIM WITH ELECTRIFIED OPTION. INSERT THE SHIELD ASSY BETWEEN THE COVER AND THE EXTERIOR TRIM BODY BEFORE INSTALLING THE BOTTOM CAP.
- INSTALL BOTTOM CAP WITH (2) FLAT HEAD SCREWS (#4-40 x1/4") SUPPLIED.



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10 INSTALLING INTERIOR & EXTERIOR TRIM TO STILE

- INSERT DRIVE SPINDLE INTO EACH TRIM BODY PRIOR TO MOUNTING.
- MOUNT THE EXTERIOR TRIM AND INTERIOR TRIM BODY TO THE STILE USING (6) #6-32 x 3" FLAT HEAD SCREWS.
- SLIDE THE COVER ONTO INTERIOR TRIM BODY FROM THE TOP.
- INSERT SHAFT THRU THE HOLE ON THE COVER AND THE OUTPUT ON TRIM BODY. THE GROOVE ON THE SHAFT FACES OPPOSITE THE LATCH BOLT. TIGHTEN THE SET SCREW WITH A 3/32" ALLEN WRENCH TO SECURE THE SHAFT AS SHOWN IN **FIG. 2.**
- INSTALL TOP CAP USING (2) #4-40 x1/4" FLAT HEAD SCREWS .
- PUSH THE COVER UP FLUSH WITH THE TOP CAP, INSTALL BOTTOM CAP USING (2) #6-32 x 3/8" FILLISTER HEAD SCREWS.

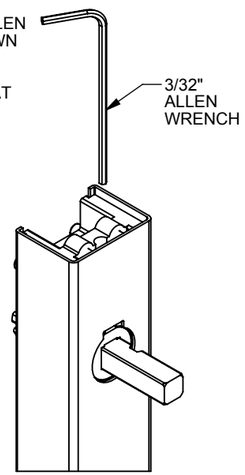
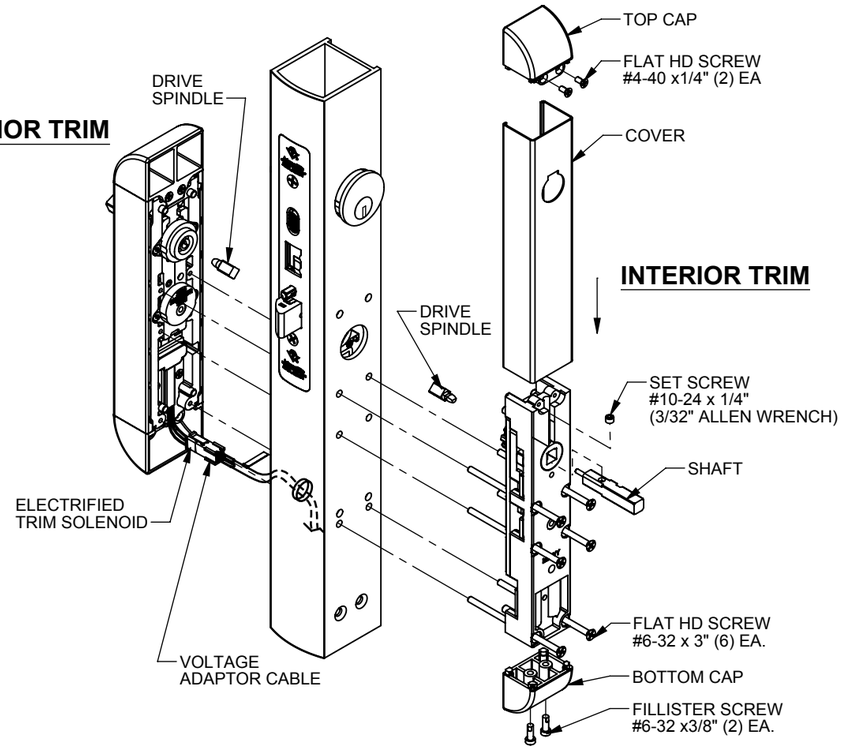


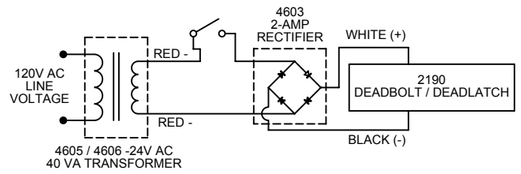
FIG. 2



ELECTRIFIED TRIM SOLENOID SPECIFICATION

SOLENOID AVAILABLE VOLTAGES
12V DC CONTINUOUS DUTY,
24V DC CONTINUOUS DUTY.

2190 WIRING DIAGRAM
INTERMITTENT / CONTINUOUS DUTY 12 / 24V DC



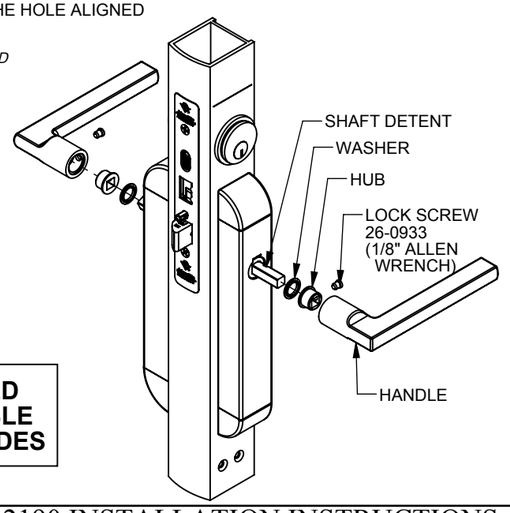
- EXTEND THE WIRE RUN FROM THE POWER SORCE AND THROUGH THE ACCESS HOLE ON THE EXTERIOR SIDE OF THE STILE.
- ATTACH VOLTAGE ADAPTOR CABLE TO 2190 AS SHOWN.

VOLTAGE ADAPTOR CABLE			
P/N#	**WIRE COLOR**	**APPLICATION**	**SOLENOID CURRENT DRAW**
VA7400-12	**BLACK**	**12V DC**	**0.44 AMPS**
VA7400-24	**RED**	**24V DC**	**0.23 AMPS**

11 INSTALLING HANDLE (INTERIOR / EXTERIOR)

- INSERT WASHER THEN INSERT HUB OVER SHAFT. ON HANDLES 2190-01, 2190-02, 2190-03, THE HUB IS FACTORY INSTALLED. REMOVE LOCK SCREW WITH 1/8" ALLEN WRENCH AND PROCEED TO NEXT STEP.
- INSTALL HANDLE OVER THE HUB WITH THE HOLE ALIGNED WITH THE HOLE ON THE HUB.

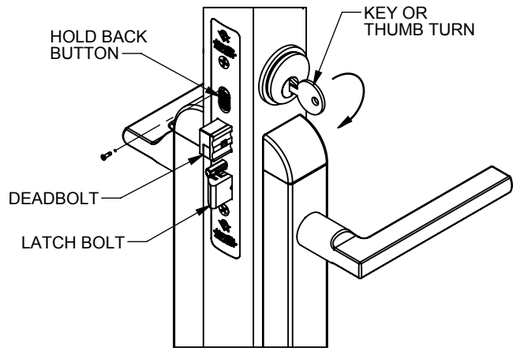
  NOTE: THE SHAFT DETENT SHOULD BE ALIGNED WITH THE LOCKING SCREW.
- MOVE THE HANDLE IN UNTIL IT IS AGAINST THE TRIM COVER.
- FASTEN THE LOCK SCREW 26-0933 TO SECURE THE HANDLE WITH 1/8" ALLEN WRENCH.



PRODUCT MUST BE INSTALLED ACCORDING TO ALL APPLICABLE BUILDING AND LIFE SAFETY CODES

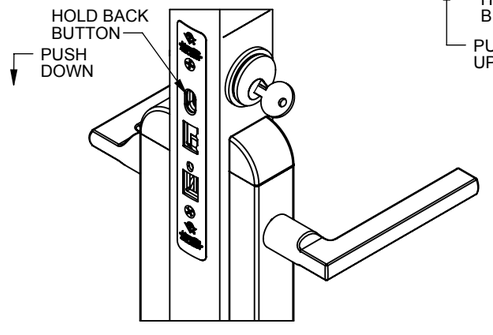
LATCH HOLD BACK FEATURE

- IN THE LOCK POSITION, INSERT KEY, TURN KEY 180° TO RETRACT THE DEADBOLT.
- TURN KEY 315° TO RETRACT THE LATCHBOLT.
- HOLD IN THIS POSITION AND PUSH DOWN THE HOLD BACK BUTTON TO RETAIN LATCHBOLT.
- RETURN KEY TO NEUTRAL POSITION AND REMOVE KEY.



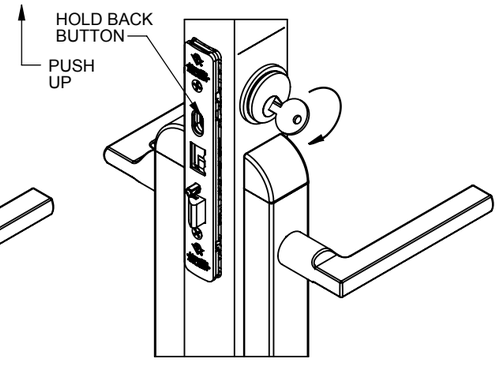
TO RELEASE HOLD BACK

- INSERT KEY, TURN KEY OR THUMB TURN ABOUT 135° AND HOLD.
- PUSH UP THE HOLD BACK BUTTON TO RELEASE THE LATCH BOLT.
- RETURN KEY TO THE NEUTRAL POSITION AND REMOVE KEY.



TEST OPERATION

- EXTEND DEADBOLT WITH KEY OR THUMBTURN.
- PUSH DOWN ON INTERIOR LEVER. THE DEADBOLT AND LATCH SHOULD FULLY RETRACT.
- IF LATCH ONLY RETRACTS - REFER TO STEP 4 FOR INTER-CONNECTION CONFIGURATION.
- IF NEITHER RETRACT - REFER TO STEP 11 FOR DRIVE SPINDLE INSTALLATION.
- PUSH DOWN ON EXTERIOR LEVER - THE LATCH ONLY SHOULD RETRACT.



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