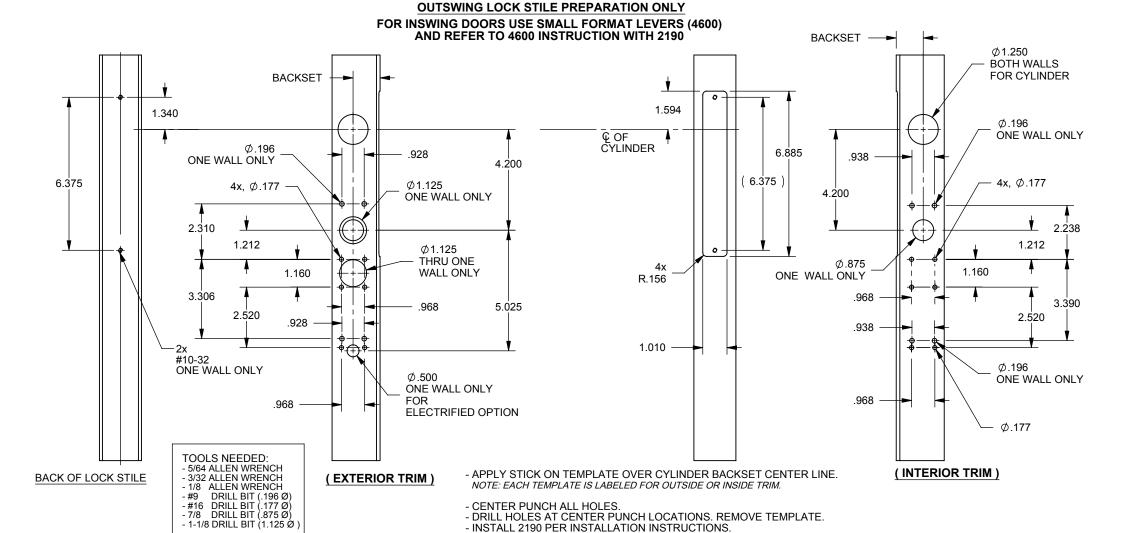
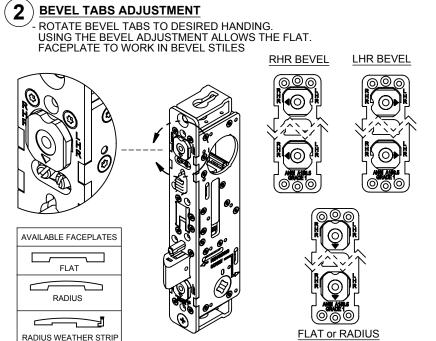
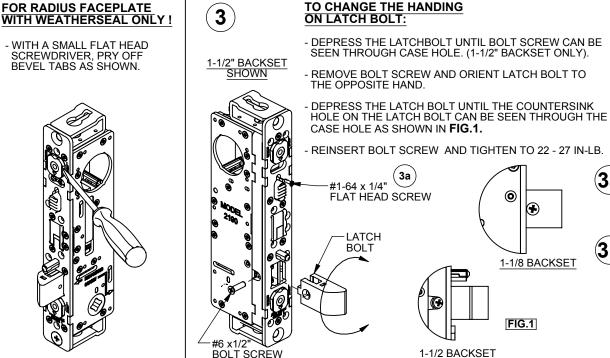


- INSERT MOUNTING BACK PLATE BEHIND JAMB AND FASTEN WITH #10 FLAT HEAD SCREWS.
- INSERT TRIM BOX WITH 2101 STRIKE PLATE AND FASTEN WITH #10 FLAT HEAD SCREWS TO BACK PLATE AS SHOWN.







TO CHANGE THE HANDING - YOU WILL ALSO HAVE TO RE-ORIENT THE INTER-CONNECT CAM: - DEPRESS THE LATCHBOLT UNTIL BOLT SCREW CAN BE a) LOOSEN THE #6-32 FLAT HEAD SCREW AT THE BOTTOM OF THE LOCK.

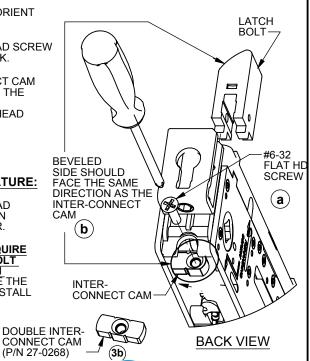
> b) ROTATE THE INTER-CONNECT CAM TO THE SAME DIRECTION AS THE LATCH BOLT BEVEL. **RETIGHTEN THE #6-32 FLAT HEAD** SCREW TO COMPLETE THE

OPERATION.

(3a) TO BLOCK HOLDBACK FEATURE: - INSTALL #1-64 x 1/4" FLAT HEAD

SCREW INTO CASE AS SHOWN BEFORE INSTALLING IN DOOR.

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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80-0180-410

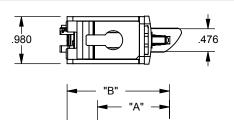
Rev. D

ECN: 11883

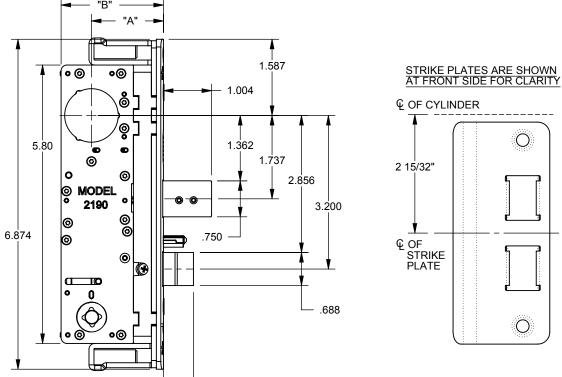
Page 1 of 3

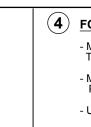


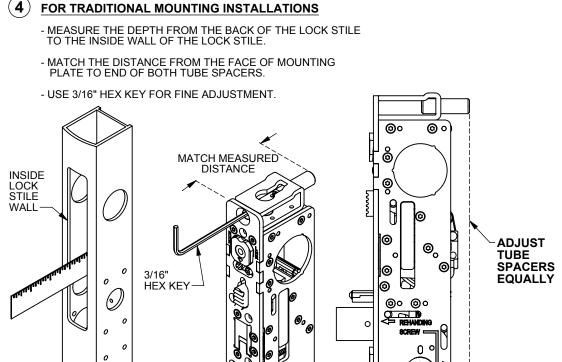




BACKSET	"A" DIM.	"B" DIM.
1-1/8"	1.12	1.76
1-1/2"	1.50	2.13

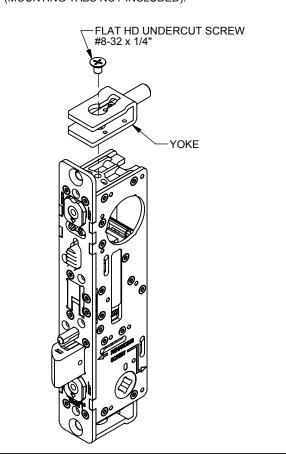






5 FOR MOUNTING TAB INSTALLATIONS

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

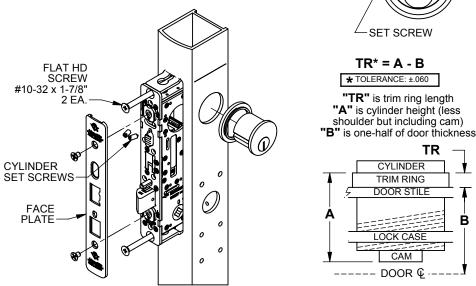




- INSERT LOCK ASSEMBLY INTO LOCK STILE THRU CUTOUT.
- INSTALL AND FASTEN TWO (2) FLAT HEAD SCREWS #10-32 x 1-7/8" TO SECURE THE LOCK ASSEMBLY ON STILE.
- INSTALL CYLINDER AND SECURE WITH SET SCREWS.

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- INSTALL FACE PLATE.

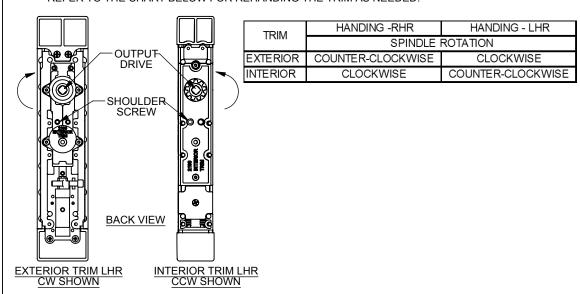


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HANDING CONFIGURATION FOR 2190 TRIM

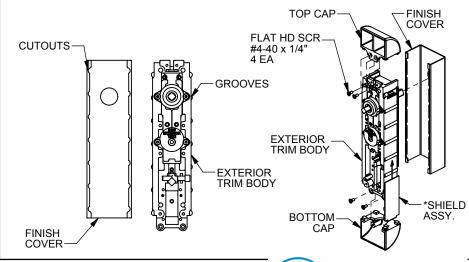
- THE OUTPUT DRIVE FOR THE EXTERIOR TRIM IS SHIPPED FROM THE FACTORY IN A CLOCKWISE ROTATION AND THE INTERIOR TRIM IS SHIPPED WITH A COUNTER-CLOCKWISE ROTATION. TO CHANGE THE OUTPUT DRIVE ROTATION, FOLLOW THESE STEPS:
- 1. REMOVE THE SHOULDER SCREW WITH A 5/64" ALLEN WRENCH. 2. REINSTALL SHOULDER SCREW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

REFER TO THE CHART BELOW FOR REHANDING THE TRIM AS NEEDED



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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2190 INSTALLATION INSTRUCTIONS W/ HEAVY DUTY ENTRANCE LEVER SET

-CYLINDER

Rev. D

ECN: 11883

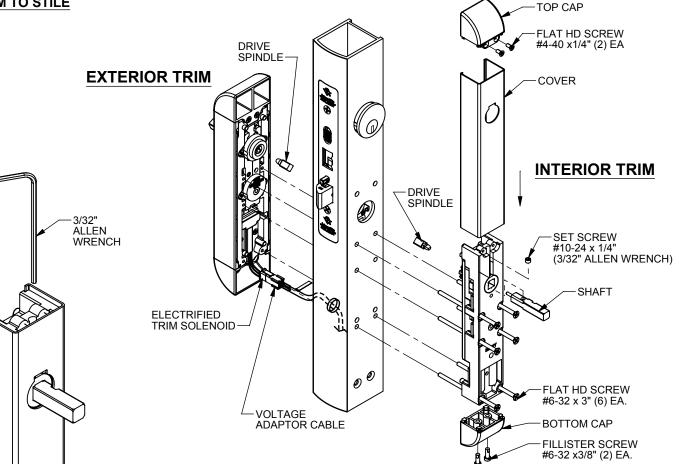
Page 2 of 3

Date: 02/03/2012



(10) INSTALLING INTERIOR & EXTERIOR TRIM TO STILE

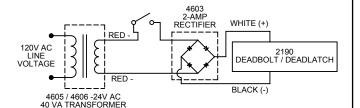
- INSERT DRIVE SPINDLE INTO EACH TRIM BODY PRIOR TO MOUNTING.
- MOUNT THE EXTERIOR TRIM AND INTERIOR TRIM BODY TO THE STILE USING (6) #6-32 x 3" FLAT HEAD SCREWS.
- SLIDE THE COVER ONTO INTERIOR TRIM BODY FROM THE TOP.
- INSERT SHAFT THRU THE HOLE ON THE COVER AND THE OUTPUT ON TRIM BODY. THE GROOVE ON THE SHAFT FACES OPPOSITE THE LATCH BOLT. TIGHTEN THE SET SCREW WITH A 3/32" ALLEN WRENCH TO SECURE THE SHAFT AS SHOWN
- 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.



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
- 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	

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.

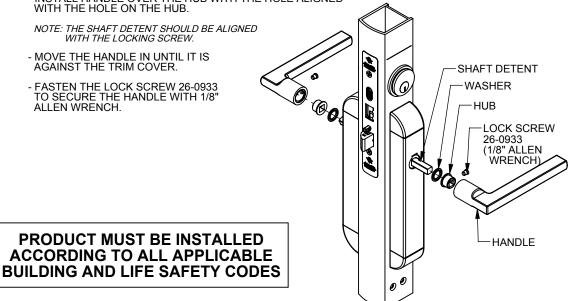
FIG. 2

- INSTALL HANDLE OVER THE HUB WITH THE HOLE ALIGNED WITH THE HOLE ON THE HUB.

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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.



LATCH HOLD BACK FEATURE

HOLD BACK

BUTTON

DEADBOL²

LATCH BOLT

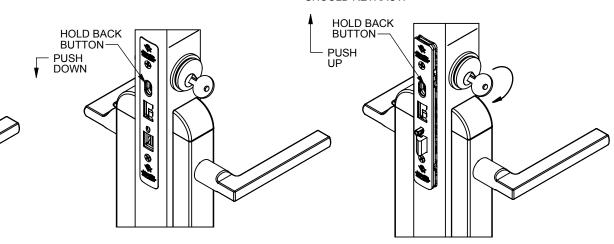
- IN THE LOCK POSITION, INSERT KEY, TURN KEY 180° TO RETRACT THE DEADBOLT
- TURN KEY 315° TO RETRACT THE LATCHBOLT.
- HOLD IN THIS POSITION AND PUSH DOWN THE HOLD BACK BUTTON TO RETAIN LATCHBOLT
- RETURN KEY TO NEUTRAL POSITION AND REMOVE KEY

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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2190 INSTALLATION INSTRUCTIONS W/ HEAVY DUTY ENTRANCE LEVER SET

80-0180-410

Rev. D

ECN: 11883

Page 3 of 3

KEY OR

THUMB TURN

Date: 02/03/12

