

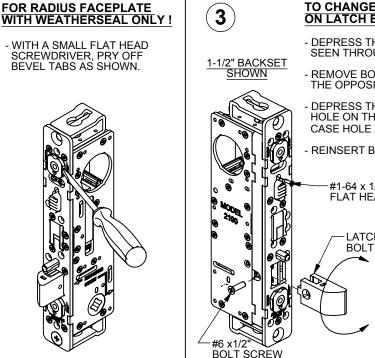
INSTALLATION OF STRIKE

- 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.

FOR INSWING DOORS USE SMALL FORMAT LEVERS (4600) AND REFER TO 4600 INSTRUCTION WITH 2190 BACKSET Ø1.250 **BOTH WALLS** FOR CYLINDER **BACKSET** 1.594 1.340 Ø.196 ONE WALL ONLY ČYLINDER Ø.196 928 .938 ONE WALL ONLY 4.200 4x, Ø.177 6.375 6.375 Ø1.125 4x, Ø.177 4 200 ONE WALL ONLY 2.310 2.238 1.212 1.212 Ø1.125 THRU ONE Ø.875 1.160 1.160 WALL ONLY ONE WALL ONLY R.156 3.306 .968 3.390 .968 5.025 2.520 2.520 .928 .938 1.010 ∮(‡).∳ #10-32 Ø.196 ONE WALL ONLY Ø.500 ONE WALL ONLY ONE WALL ONLY .968 968 **ELECTRIFIED OPTION** Ø.177 TOOLS NEEDED: 5/64 ALLEN WRENCH (INTERIOR TRIM) APPLY STICK ON TEMPLATE OVER CYLINDER BACKSET CENTER LINE. - 3/32 ALLEN WRENCH **BACK OF LOCK STILE** (EXTERIOR TRIM) NOTE: EACH TEMPLATE IS LABELED FOR OUTSIDE OR INSIDE TRIM. 1/8 ALLEN WRENCH - #9 DRILL BIT (.196 Ø) - #16 DRILL BIT (.177 Ø) - CENTER PUNCH ALL HOLES.

OUTSWING LOCK STILE PREPARATION ONLY

BEVEL TABS ADJUSTMENT ROTATE BEVEL TABS TO DESIRED HANDING. USING THE BEVEL ADJUSTMENT ALLOWS THE FLAT. **FACEPLATE TO WORK IN BEVEL STILES** RHR BEVEL LHR BEVEL AVAILABLE FACEPLATES FLAT



- 7/8 DRILL BIT (.875 Ø)

- 1-1/8 DRILL BIT (1.125 Ø

TO CHANGE THE HANDING (3)**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. #1-64 x 1/4" (3a) FLAT HEAD SCREW LATCH **BOLT** 1-1/8 BACKSET

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

- DRILL HOLES AT CENTER PUNCH LOCATIONS. REMOVE TEMPLATE.

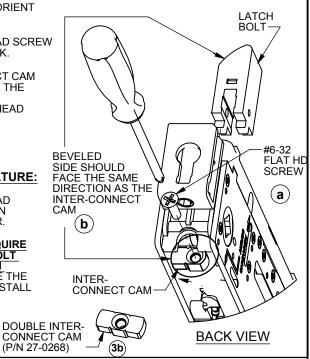
- INSTALL 2190 PER INSTALLATION INSTRUCTIONS.

- 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.





RADIUS

RADIUS WEATHER STRIP

Adams Adams Rite Manufacturing Co. 260 Santa Fe Street, Pomona. CA 91767 Phone: 909-632-2300 Fax: 909-632-2369 www.adamsrite.com

2190 INSTALLATION INSTRUCTIONS W/ HEAVY DUTY ENTRANCE LEVER SET

FLAT or RADIUS

80-0180-410

Date: 02/03/2012

1-1/2 BACKSET

FIG.1

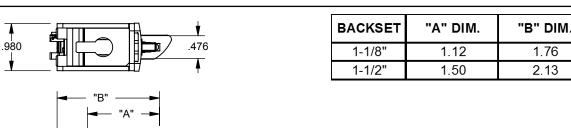
INSTALLATION INSTRUCTIONS

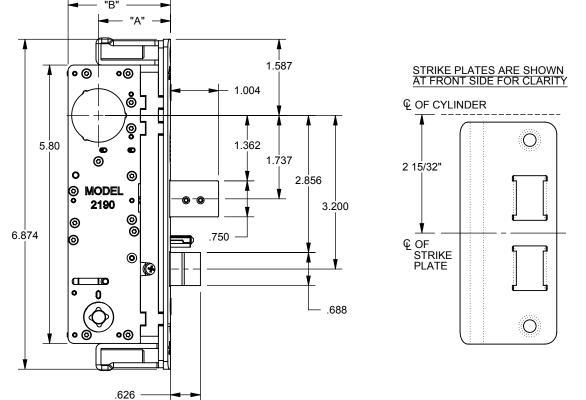
Appvd: BC Date: 02/09/12 Page 1 of 3

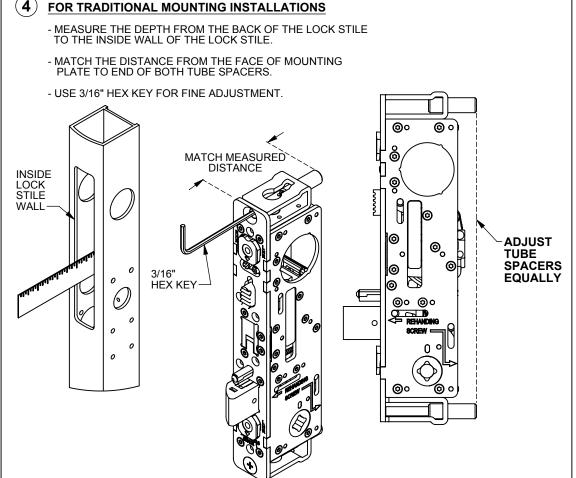
assa abloy

Rev. D

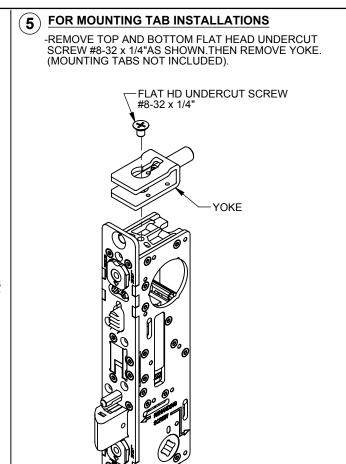
ECN: 11883





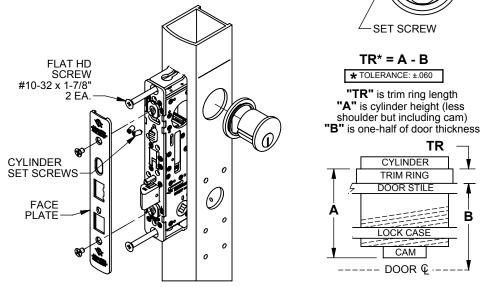


Date: 02/03/2012





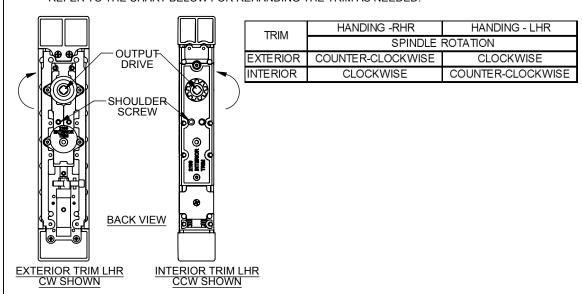
- INSERT LOCK ASSEMBLY INTO LOCK STILE THRU CUTOUT.
- INSTALL AND FASTEN TWO (2) FLAT HEAD SCREWS #10-32 x 1-7/8" TO SECURE THE LOCK ASSEMBLY ON STILE.
- INSTALL CYLINDER AND SECURE WITH SET SCREWS.
 - INSTALL FACE PLATE.



HANDING CONFIGURATION FOR 2190 TRIM

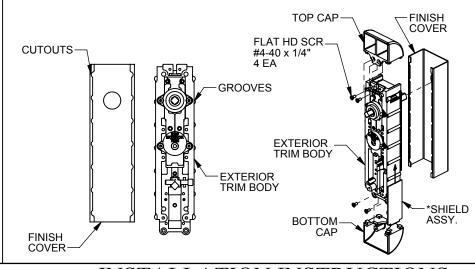
- THE OUTPUT DRIVE FOR THE EXTERIOR TRIM IS SHIPPED FROM THE FACTORY IN A CLOCKWISE ROTATION AND THE INTERIOR TRIM IS SHIPPED WITH A COUNTER-CLOCKWISE ROTATION. TO CHANGE THE OUTPUT DRIVE ROTATION, FOLLOW THESE STEPS:
- 1. REMOVE THE SHOULDER SCREW WITH A 5/64" ALLEN WRENCH. 2. REINSTALL SHOULDER SCREW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



Rite

ASSA ABLOY

_ Adams Adams Rite Manufacturing Co. 260 Santa Fe Street, Pomona. CA 91767 Phone: 909-632-2300 Fax: 909-632-2369 www.adamsrite.com

2190 INSTALLATION INSTRUCTIONS W/ HEAVY DUTY ENTRANCE LEVER SET

-CYLINDER

80-0180-410

Rev. D

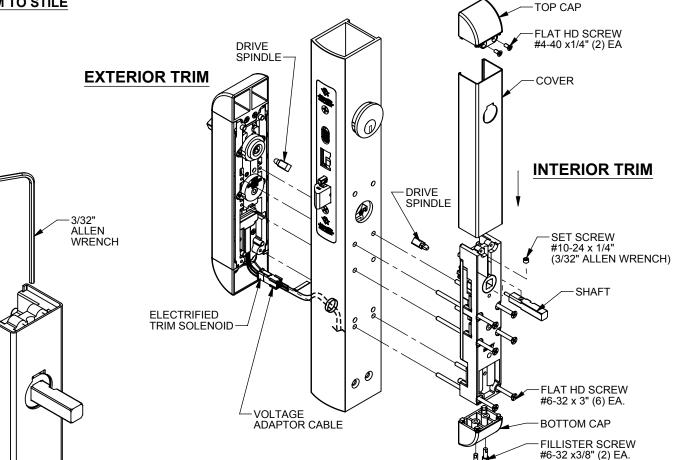
ECN: 11883

INSTALLATION INSTRUCTIONS

Page 2 of 3 Appvd: BC Date: 02/09/12

(10) INSTALLING INTERIOR & EXTERIOR TRIM TO STILE

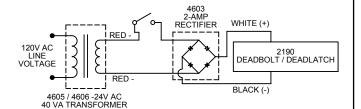
- INSERT DRIVE SPINDLE INTO EACH TRIM BODY PRIOR TO MOUNTING.
- MOUNT THE EXTERIOR TRIM AND INTERIOR TRIM BODY TO THE STILE
 USING (6) #6-32 x 3" FLAT HEAD SCREWS.
- SLIDE THE COVER ONTO INTERIOR TRIM BODY FROM THE TOP.
- INSERT SHAFT THRU THE HOLE ON THE COVER AND THE OUTPUT ON TRIM BODY. THE GROOVE 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)

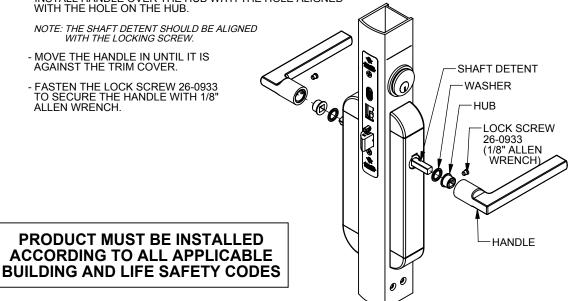
INSERT WASHER THEN INSERT HUB OVER SHAFT ON HANDLES 2190-01, 2190-02, 2190-03, THE HUB IS FACTORY INSTALLED. REMOVE LOCK SCREW WITH 1/8" ALLEN WRENCH AND PROCEED TO NEXT STEP.

FIG. 2

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

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

- 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

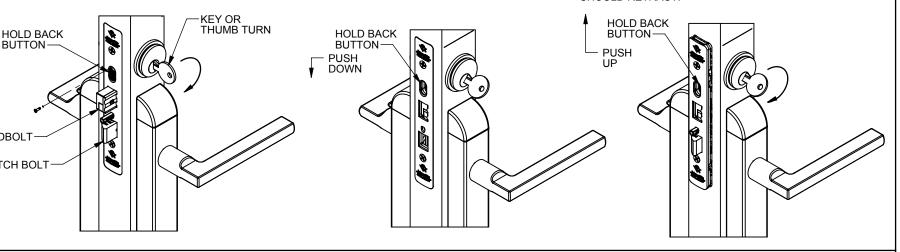
TO RELEASE HOLD BACK

Date: 02/03/12

- 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.





ASSA ABLOY

Adams Rite Manufacturing Co. 260 Santa Fe Street, Pomona. CA 91767 Phone: 909-632-2300 Fax: 909-632-2369

www.adamsrite.com

2190 INSTALLATION INSTRUCTIONS

W/ HEAVY DUTY ENTRANCE LEVER SET

80-0180-410

Rev. D

ECN: 11883

BUTTON

DEADBOL³

LATCH BOLT

INSTALLATION INSTRUCTIONS

Page 3 of 3 Appvd: BC Date: 02/09/12