Special Bulletin SP17-310

Date	Expiration	Release	Page
06.2017	**06.2019**	**1**	**1(16)**

NYCT DOOR LATCH PINS REPLACEMENT

Prevost vehicles

DESCRIPTION

On the vehicles affected by this bulletin, it is necessary to replace the two engine door latch pins and the compressor door latch pin by new units made of sturdier material.

MODEL YEAR(S) AND VEHICLES INVOLVED

NOTICE TO SERVICE CENTERS

*Verify vehicle eligibility by checking warranty bulletin status with **SAP** or via **ONLINE WARRANTY SYSTEM** available on Service / Warranty tab of Prevost website.*

Model	VIN	Fleet Number
X3-45 Commuter Model Year : 2014 - 2016	The following individual vehicles: 2PCG33495**E**C73**5590**, 2PCG33498**E**C73**5602** and From 4RKG33497**F**973**7001** up to 4RKG33496**G**973**7170** incl.	From 2490 up to 2661, incl.

This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this bulletin will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.

MATERIAL NEEDED

Order the following parts:

Part No.	Description	Qty
2801055	Door Latch Pin	3

NOTE
Material can be obtained through regular channels.

PROCEDURE

DANGER

Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. *On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.*

1. Open the vehicle rear engine door (Fig.1).

FIG.1 REAR ENGINE DOOR

2. Locate the engine door latch pins on both sides of the door (Fig.2 & 3).

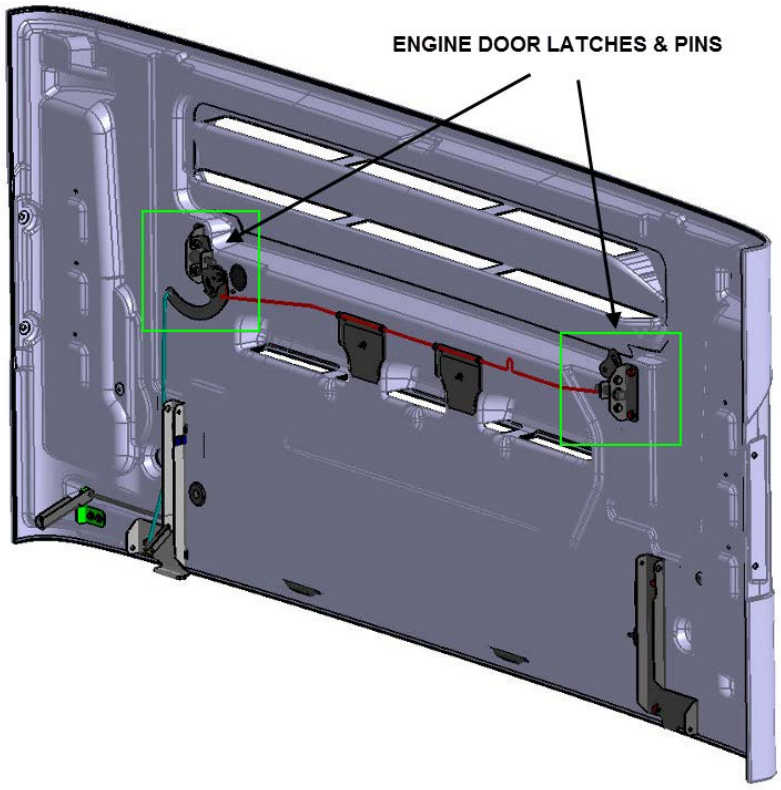

FIG.2 ENGINE DOOR LATCHES POSITION

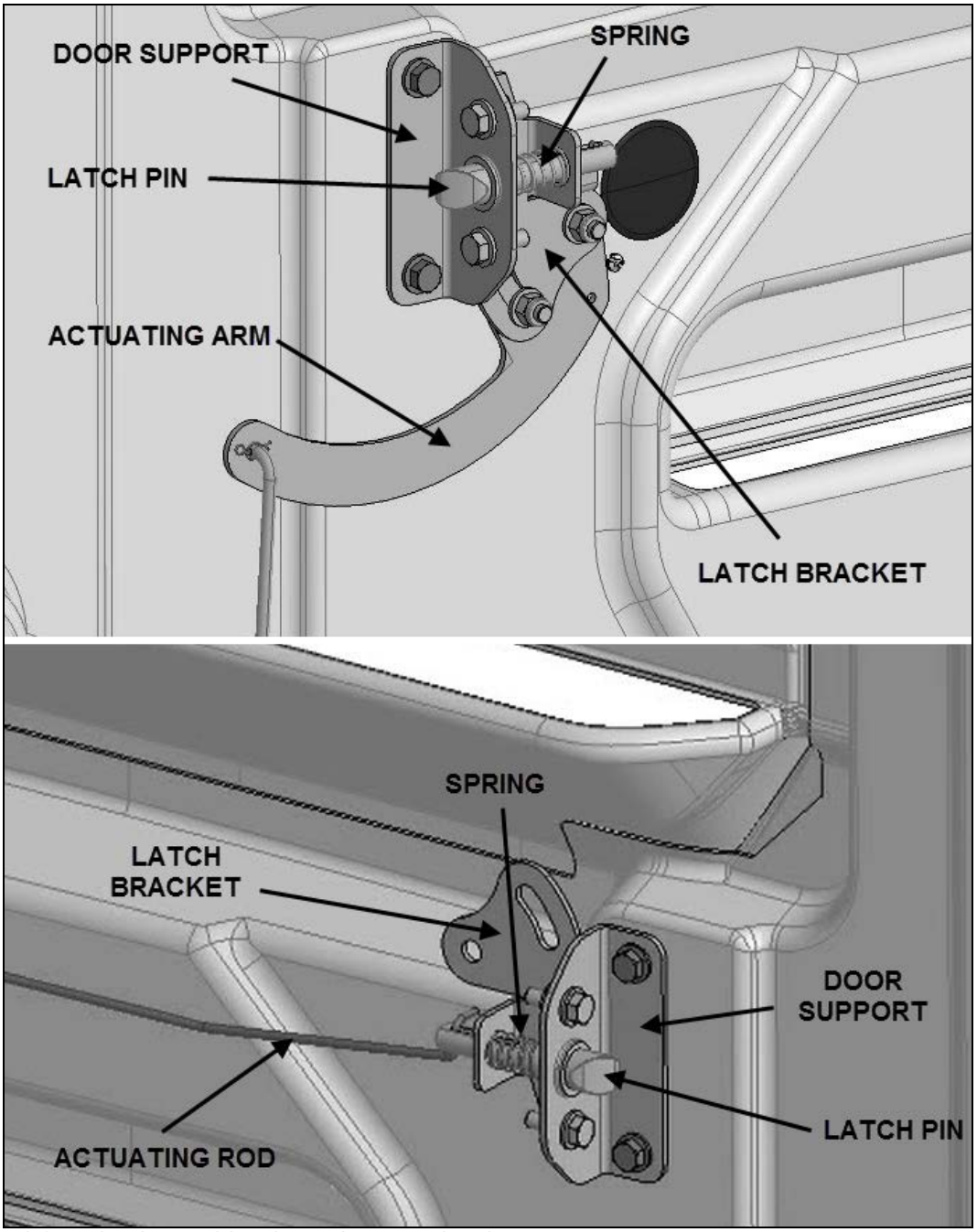

FIG.3 LATCHES MAIN COMPONENTS IDENTIFICATION

3. Starting with the door curbside pin, remove the two actuating arm nuts and *small* plastic washers (Fig.4).

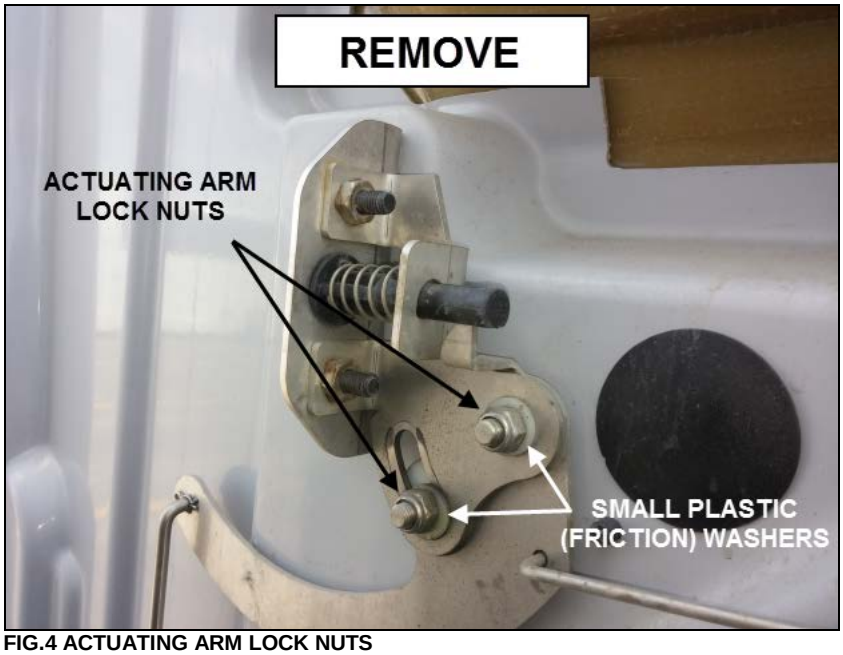

FIG.4 ACTUATING ARM LOCK NUTS

4. Remove the two latch pin bracket screw to free the bracket and pin from the door support (Fig.5).

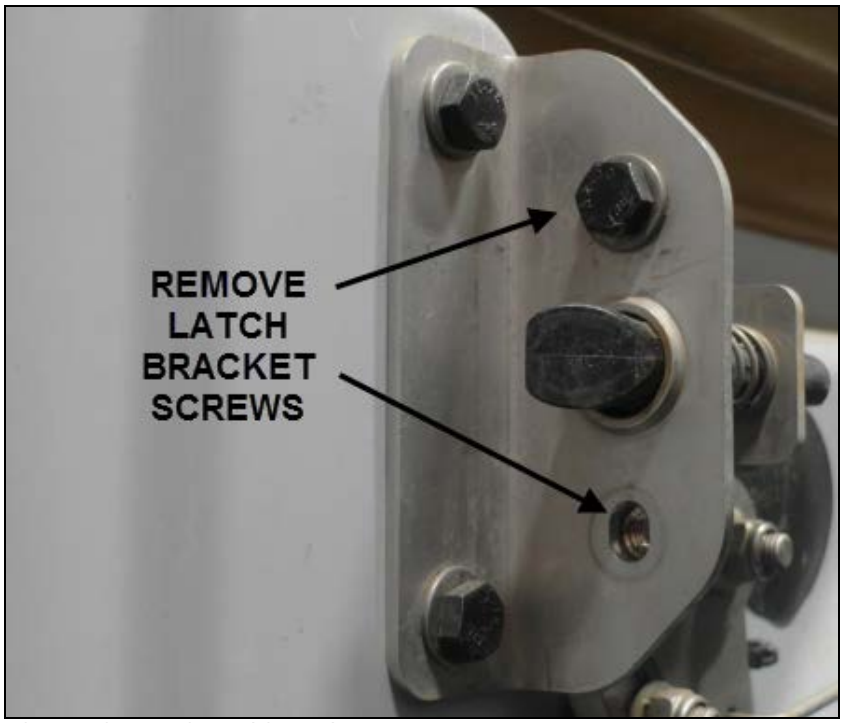

FIG.5 LATCH BRACKET SCREWS

5. Disengage the actuating arm from the pin bracket and the arm end tab from the pin slot. *Make sure not to lose the two large plastic washers stacked between the arm and the bracket (Fig.6).*

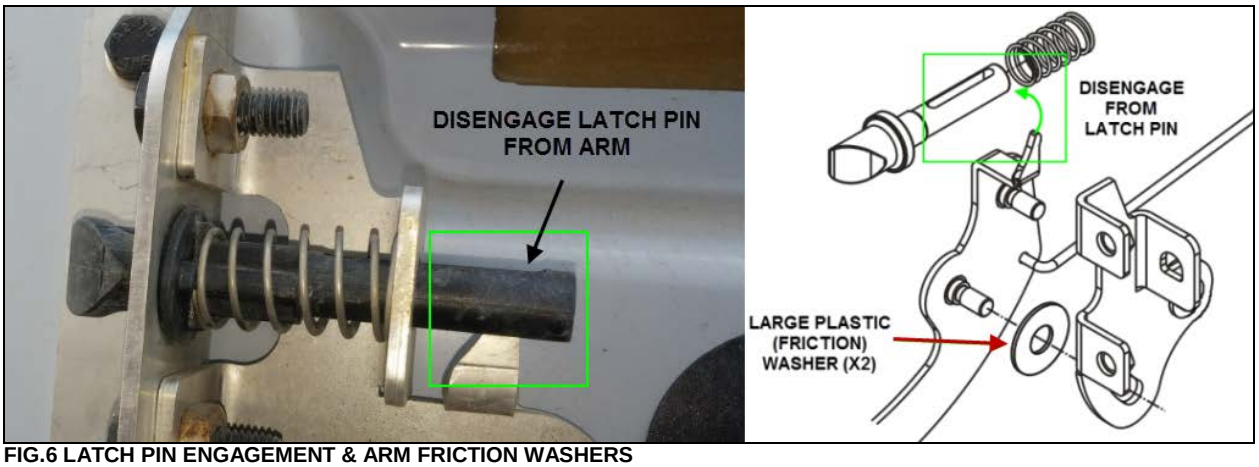

FIG.6 LATCH PIN ENGAGEMENT & ARM FRICTION WASHERS

6. Remove and discard old latch pin and Install spring over *new latch pin **2801055***. Insert slotted tip of the latch pin in the “D” hole of the bracket (Fig.7).

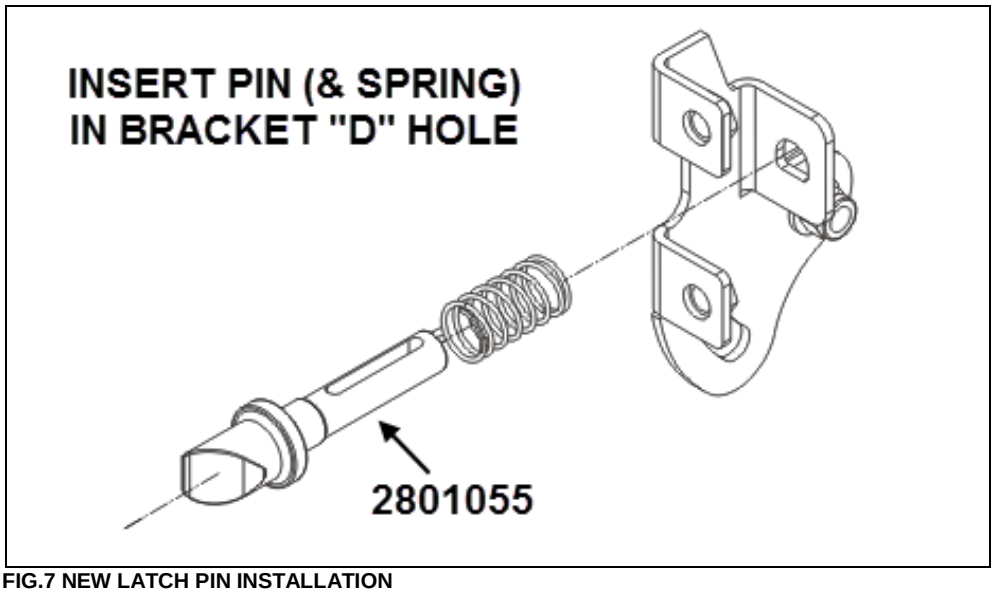

FIG.7 NEW LATCH PIN INSTALLATION

7. Engage the arm tip into the pin slot and reinsert the arm bolts into the bracket. *Hand tight* the two arm lock nuts (with small plastic washers). *Do not forget to insert the two large plastic washers between the arm and the bracket (Fig.8).*

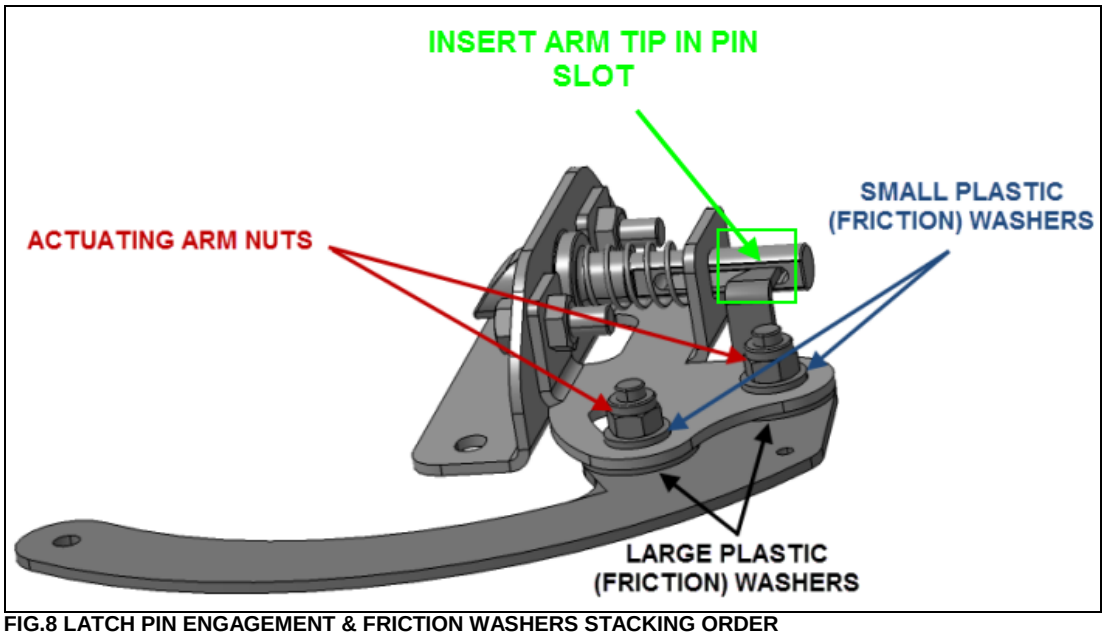

FIG.8 LATCH PIN ENGAGEMENT & FRICTION WASHERS STACKING ORDER

8. Insert latch pin into door support hole (engage a few threads of the bracket screws to maintain the assembly) (Fig.9).

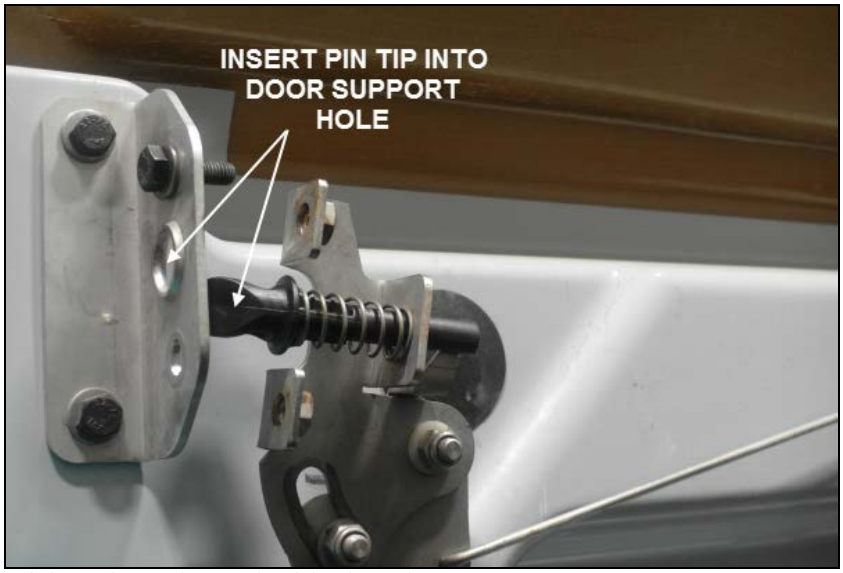

FIG.9 LATCH MECH. INTO DOOR SUPPORT

9. Put medium strength threadlocker (Loctite blue 243 or equivalent) to the bracket screw threads and tighten the bracket to the door support. Torque to 1**7 lb-ft** and apply tamper proof indicator paint (torque seal) to the bolt heads (Fig.10).

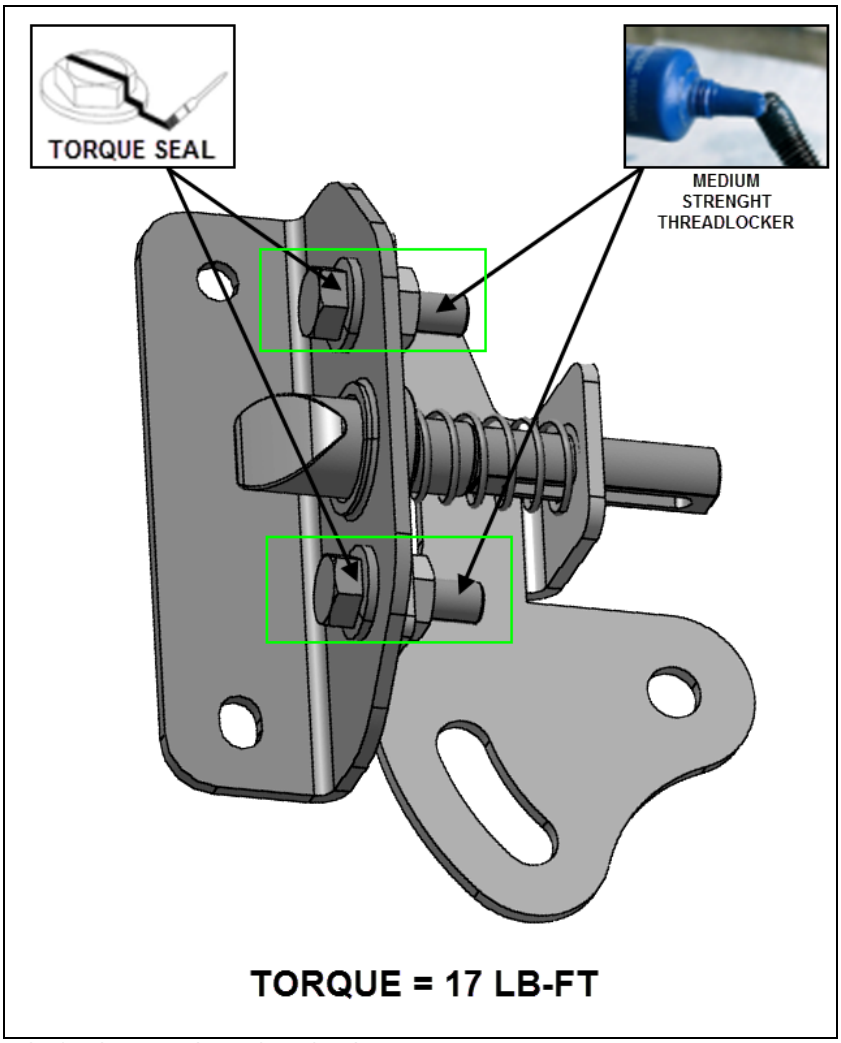

FIG.10 TIGHTENING LATCH BOLTS

10. Tighten both arm nuts (no specific torque; movement must remain smooth without side play) (Fig.11).

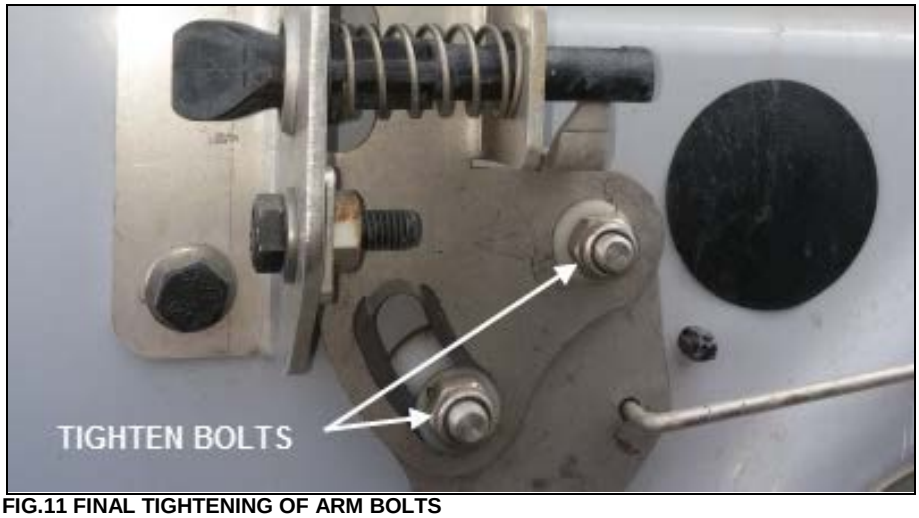

FIG.11 FINAL TIGHTENING OF ARM BOLTS

11. Moving to the road side latch, remove the two latch bracket hold-down screws (Fig.12).

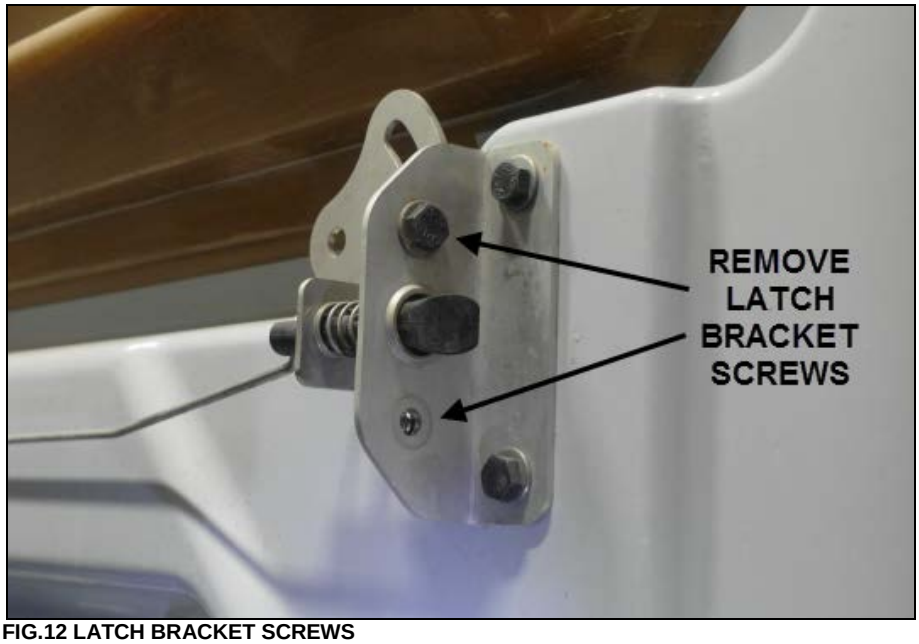

FIG.12 LATCH BRACKET SCREWS

12. Disengage the actuating rod from the latch pin slot to free (& discard) the pin (Fig.13).

FIG.13 DISENGAGING ACTUATING ROD FROM LATCH PIN

13. Insert a *new latch pin* ***2801055*** through the spring and bracket “D” hole and re-engage the actuating rod in the pin slot as shown in Fig.14.

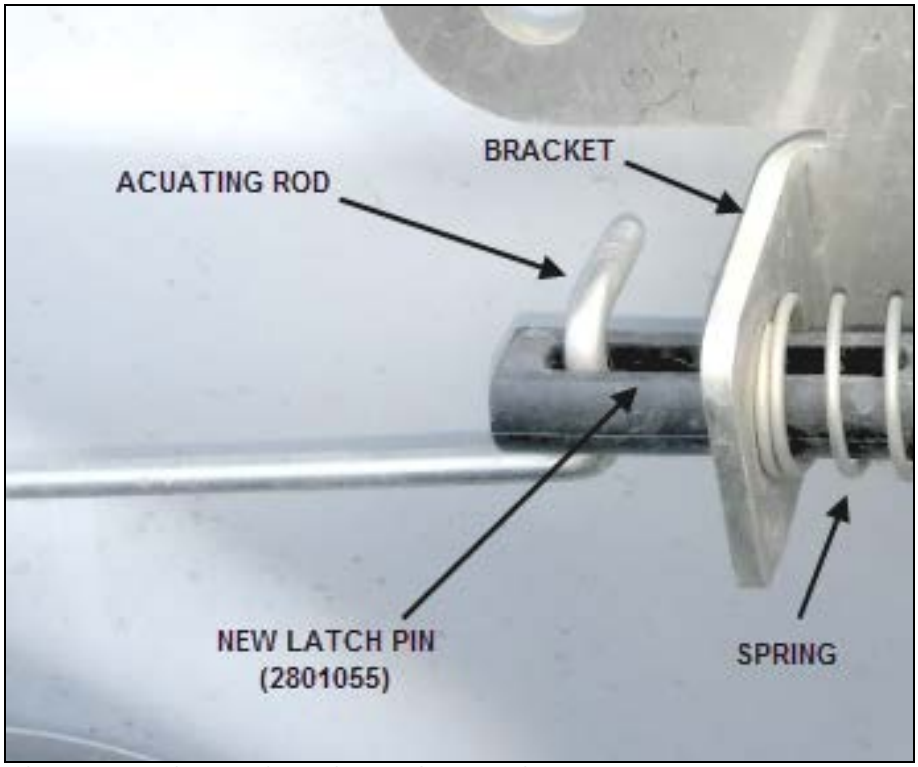

FIG.14 NEW LATCH PIN TO BRACKET INSTALLATION

14. Insert latch pin (& bracket assembly) into door support hole, engage a few threads of the bracket screws to maintain in place (Fig.15).

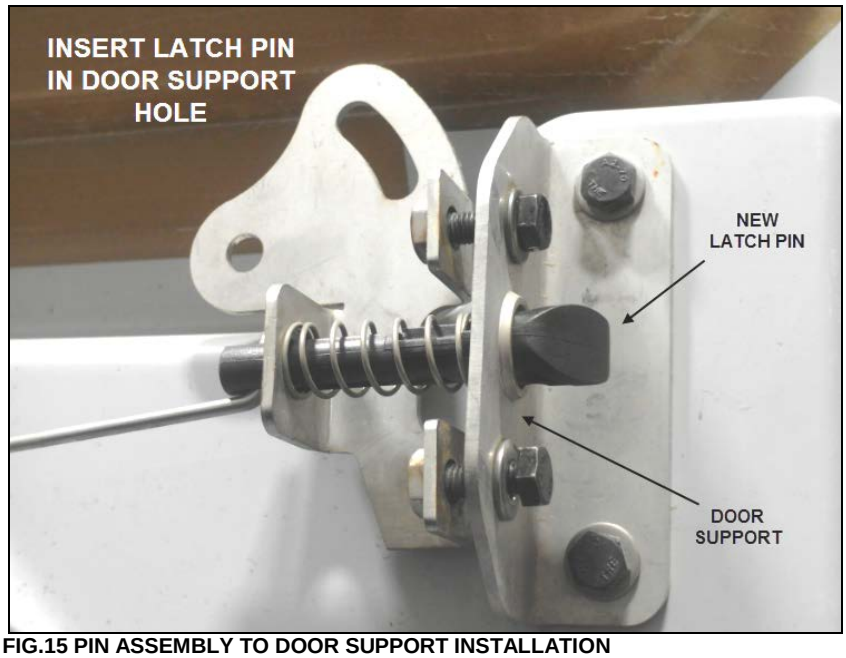

FIG.15 PIN ASSEMBLY TO DOOR SUPPORT INSTALLATION

15. Put medium strength threadlocker (Loctite blue 243 or equivalent) to the bracket screw threads and tighten the bracket to the door support. **Torque to 17 lb-ft**. Apply tamper proof indicator paint (torque seal) to the bolt heads (Fig.16).

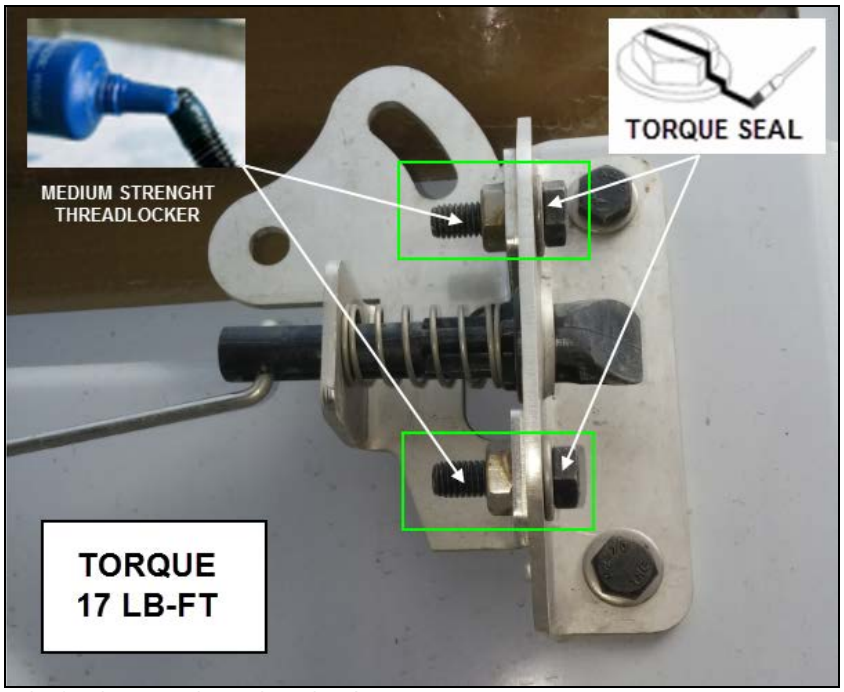

FIG.16 TIGHTENING LATCH BOLTS

16. Open the vehicle compressor door and locate the latch mechanism (Fig.17 & 18).

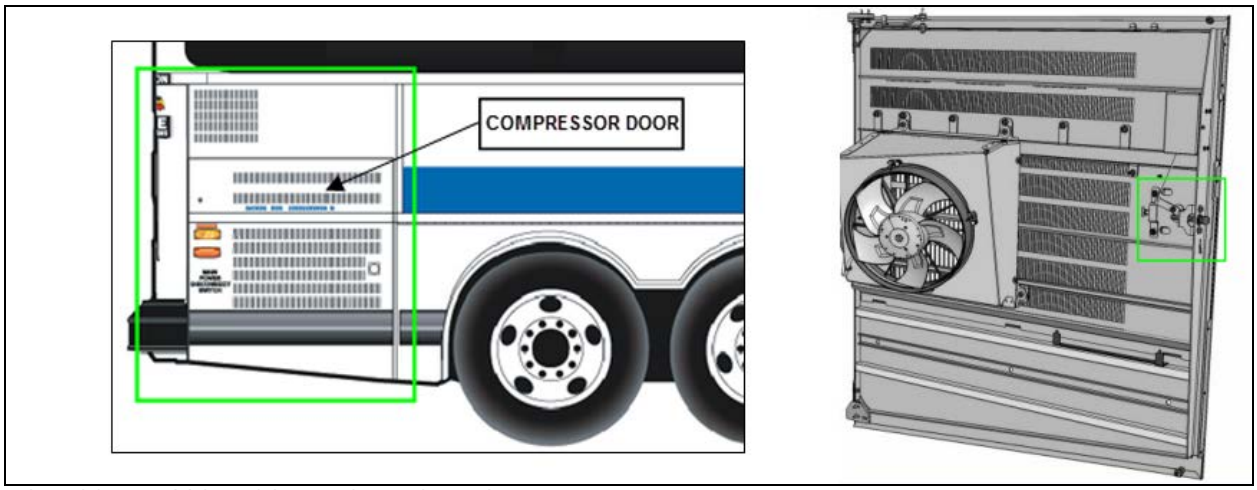

FIG.17 COMPRESSOR DOOR LATCH MECHANISM

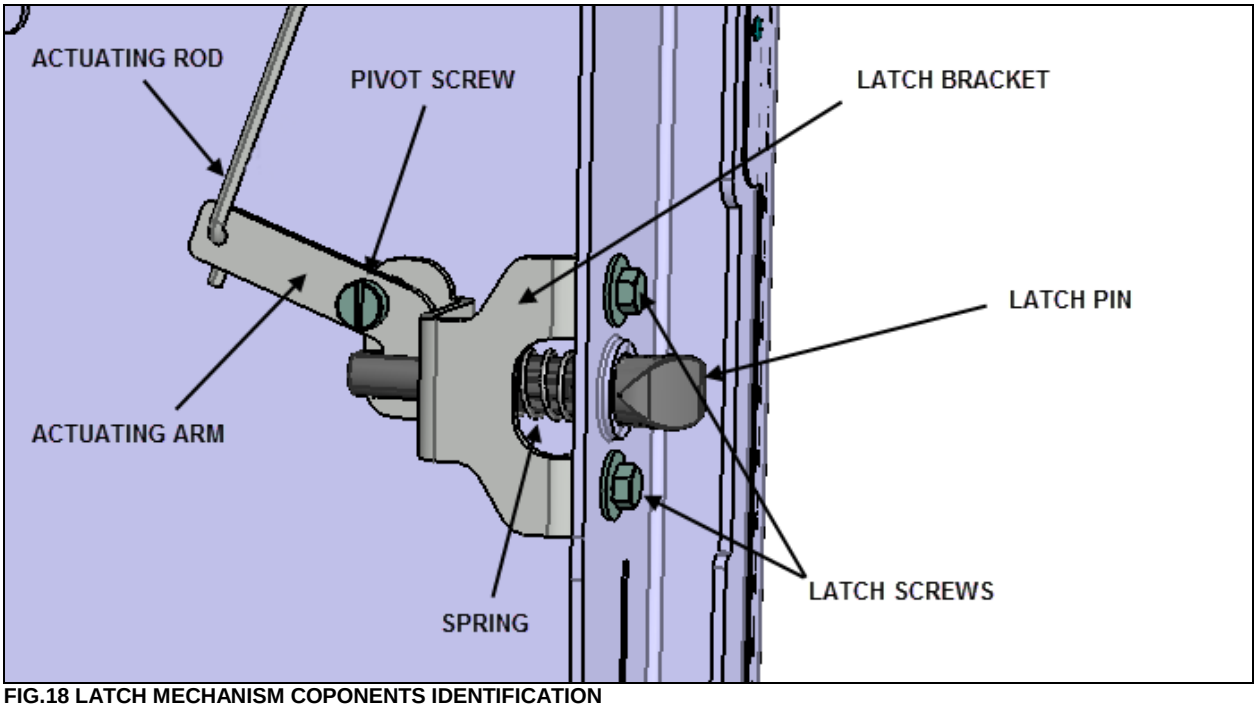

FIG.18 LATCH MECHANISM COPONENTS IDENTIFICATION

17. Remove the pivot screw securing the actuating arm to the latch bracket (Fig.19)

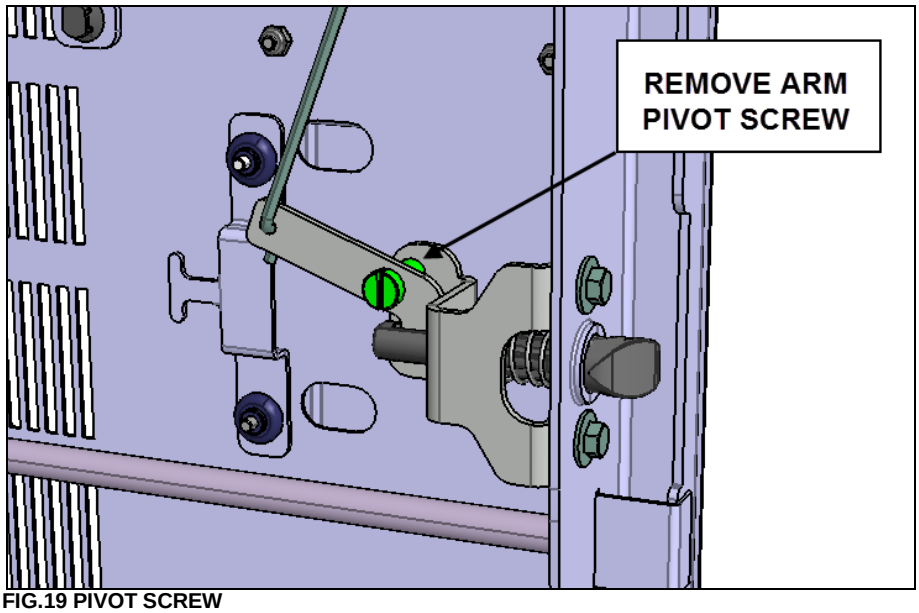

FIG.19 PIVOT SCREW

18. Apply slight pressure to the latch pin tip and disengage the actuating arm from the pin (and actuating rod as req.) (Fig.20)

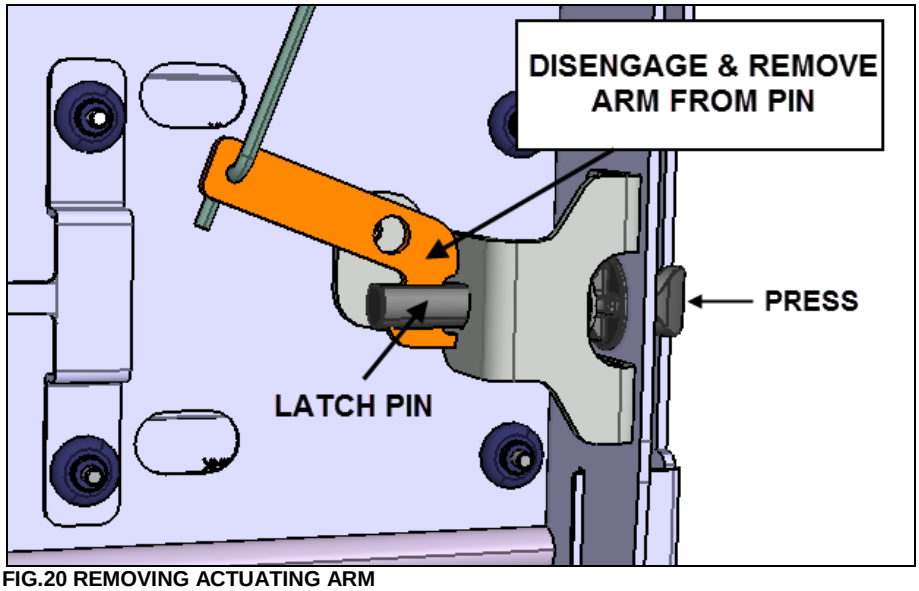

FIG.20 REMOVING ACTUATING ARM

19. Remove both hex screws holding the latch bracket to the door frame (Fig.21)

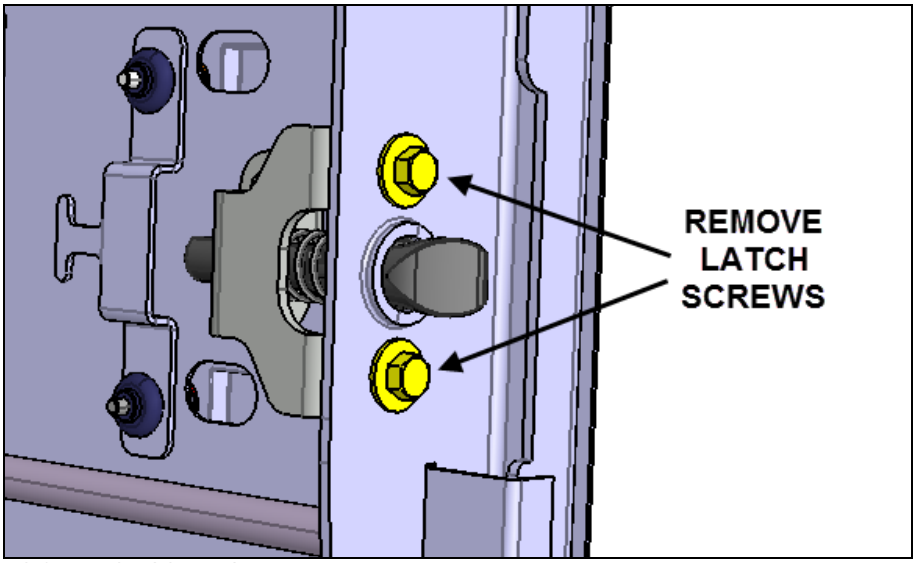

FIG.21 LATCH SCREWS

20. Remove and discard the latch pin (spring will be reused) (Fig.22)

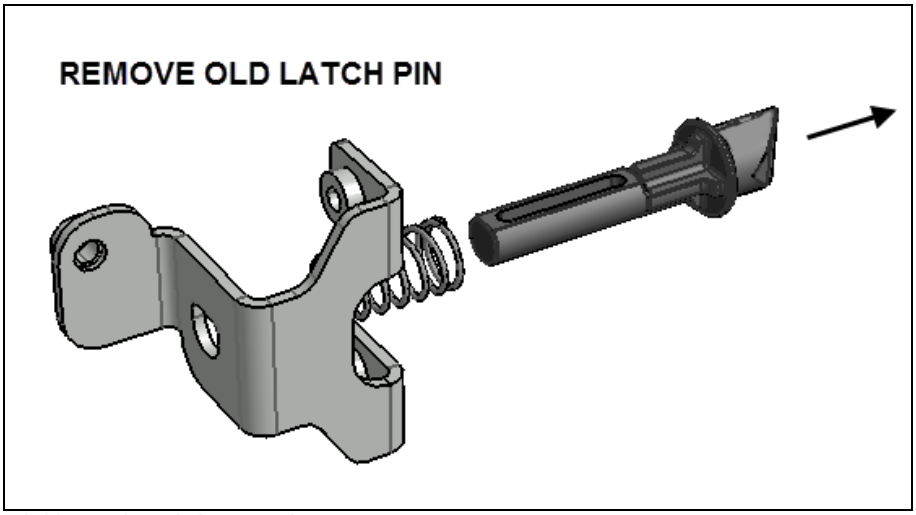

FIG.22 REMOVING OLD LATCH PIN

21. Insert *new latch pin **2801055*** (and spring) into latch bracket opening (Fig.23).

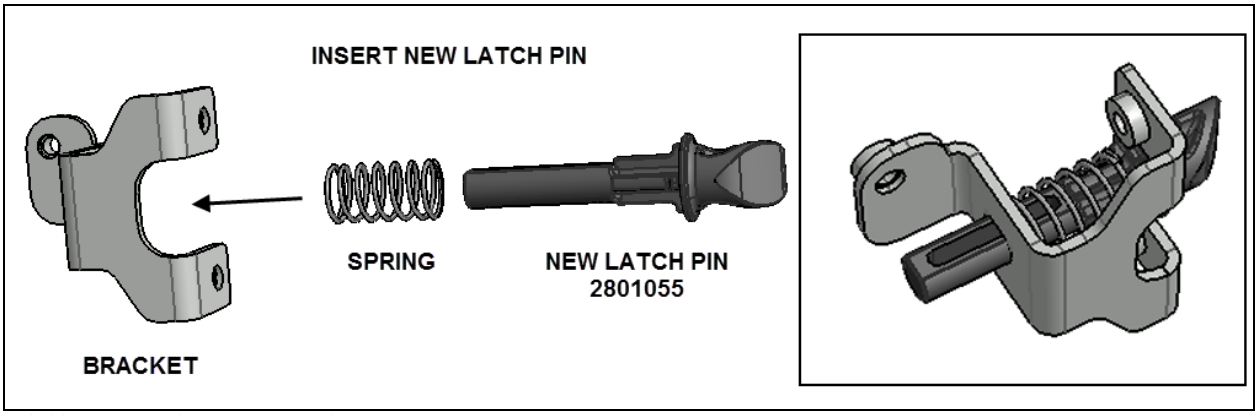

FIG.23 NEW LATCH PIN IN BRACKET

22. Secure the latch mechanism to the door frame using the two latch screws, Apply a slight amount of medium strength threadlocker (Loctite blue 243 or equivalent) to the screw threads. Torque both screws to **7 LB-FT** (Fig.26).

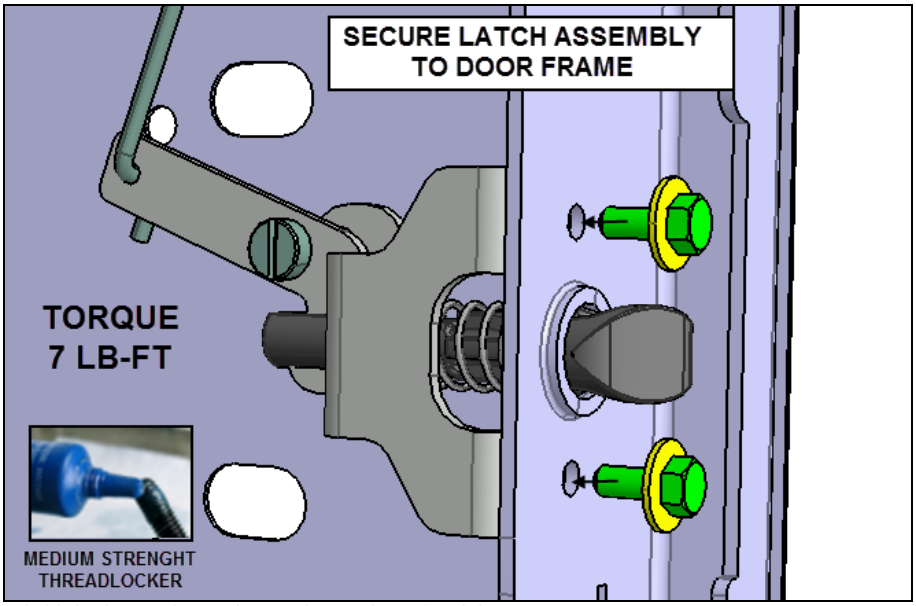

FIG.26 SECURING LATCH MECHANISM TO DOOR FRAME

23. Apply slight pressure to the latch pin tip and re-engage the actuating arm in the pin slot (also engage actuating rod) (Fig.24).

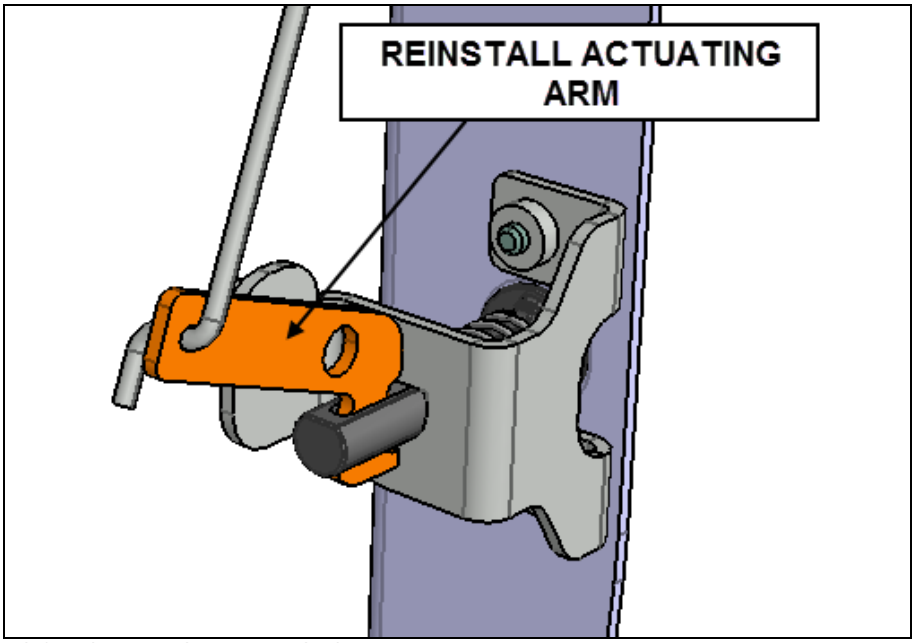

FIG.24 ACTUATING ARM ENGAGEMENT

24. Secure the actuating arm to the latch bracket with the pivot bolt. Apply a slight amount of medium strength threadlocker (Loctite blue 243 or equivalent) to the pivot bolt threads (Fig.25).

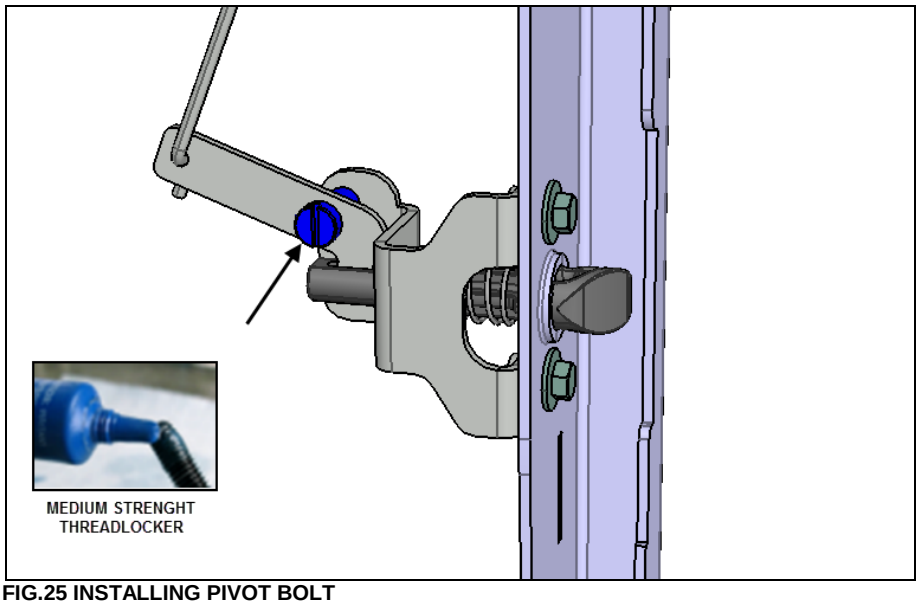

FIG.25 INSTALLING PIVOT BOLT

25. Check for proper door latch operation (open and close door several times). Once completed, apply tamper proof indicator paint (torque seal) to the bolt heads (Fig.27).

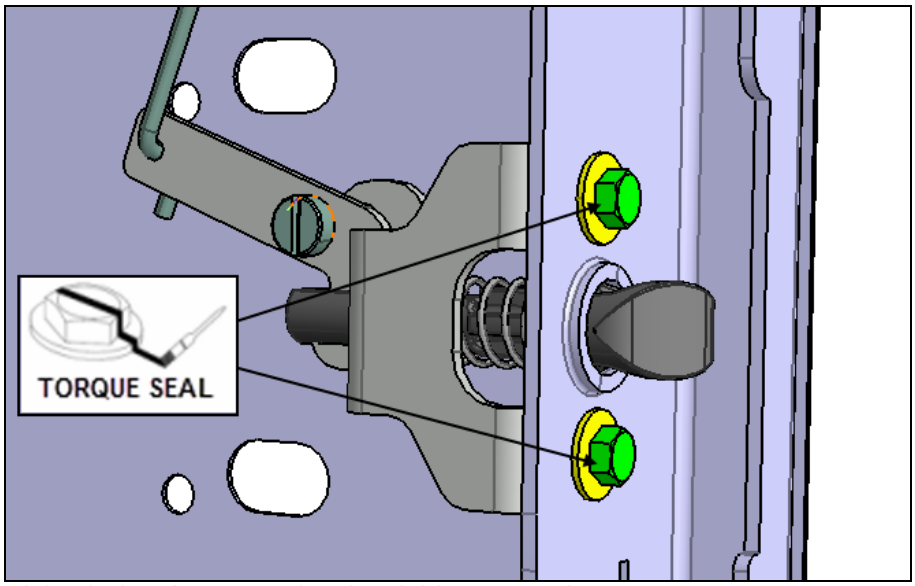

FIG.27 TORQUE SEAL APPLICATION TO SCREW HEADS

PARTS / WASTE DISPOSAL

Return replaced parts to Prevost with A.F.A. for full reimbursement.
Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

ESTIMATED TIME

The time required to perform this special bulletin is approximately 1/2 (0.5) hour.

OTHER

VBC Bulletin	N/A
Fail Code	18.05
Defect Code	09
Syst. Cond	B
Causal Part	2800884

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