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NYCT IDLER BEARING REPLACEMENT

Prevost vehicles

DESCRIPTION

On the vehicles affected by this bulletin, proceed to the replacement of the original A/C tensioner and alternator idler bearings with a FAG branded unit following the procedure outlined below.

These FAG bearings are of heavier duty construction and will offer extended durability compared to the original ones.

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: 2PCG33495EC735590, 2PCG33498EC735602 From 4RKG33497F9737001 up to 4RKG33491G9737299 incl.	From 2490 up to 2789, 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
507014	Bearing FAG, 20 x 52 x 22.2	2

Other parts that may be required:

Part No.	Description	Qty
504095	Snap Ring, Int. 2.00 x 2.12 x 0.62	As req.
457502	Alternator Idler pulley (without bearing)	As req.
457504	A/C Tensioner pulley (without bearing)	As req.
457501	Tensioner Back Spacer	As req.
053690	Idler Bushing	As req.
453076	Dust cap	As req.

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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.

PART 1 REMOVING IDLER PULLEYS FROM THE VEHICLE

1. Open the vehicle rear engine door and locate the two pulleys (A/C tensioner # 457505 and alternator idler # 457705) requiring the bearing replacement (Fig.1).

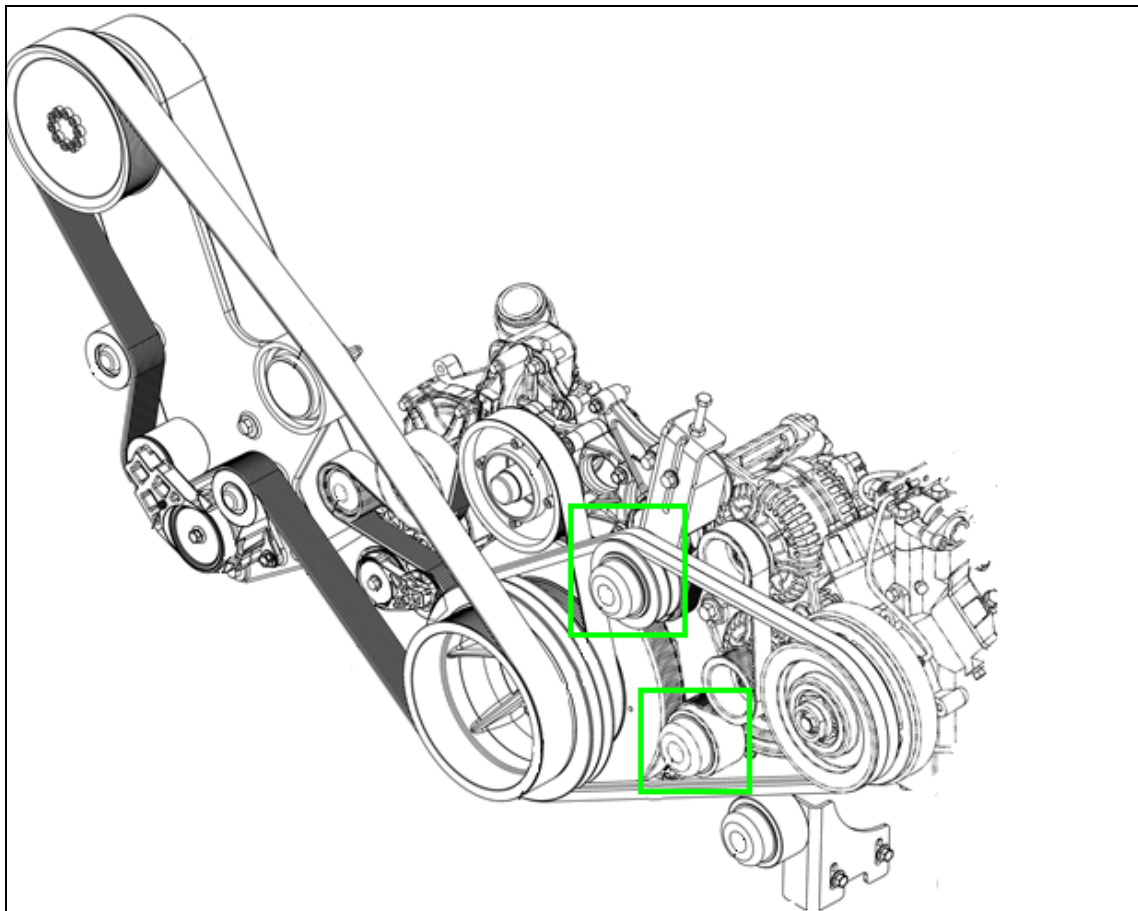


FIG.1 ALTERNATOR IDLER AND A/C TENSIONER PULLEY

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2. Release belt tension from the two A/C V-belts by loosening the A/C belt tensioner (Fig.2)

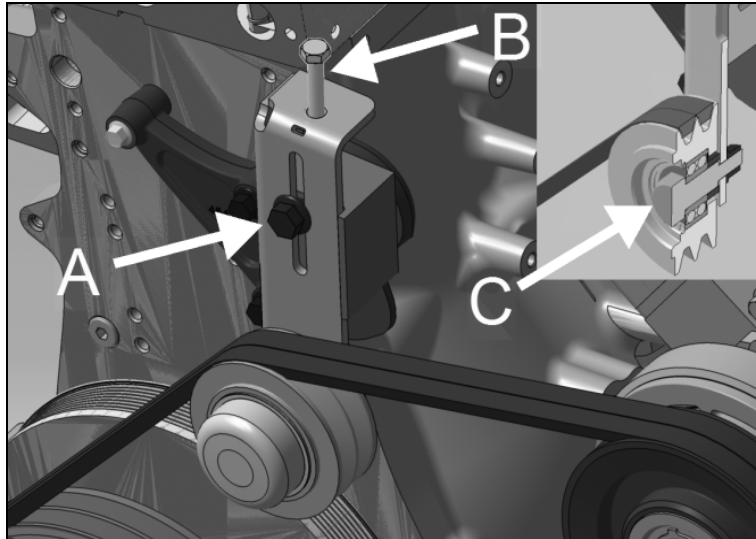


FIG.2 A/C BELT TENSIONER

- Slightly loosen tensioner locking bolt (A) to allow up and down movement.
 - Unscrew the tensioner adjusting bolt (B) to remove tension applied to the belts.
3. Remove the two belts from the A/C compressor and tensioner pulleys.
 4. Using a rubber mallet, gently tap off the A/C idler pulley dust cap.
 5. Unscrew the A/C idler pulley center retaining bolt (C) and remove the idler pulley (Fig.2).
NOTE: Be cautious not to lose the spacer behind the pulley (as seen in Fig.7).
 6. Insert a 1/2" ratchet into the alternators automatic belt tensioner opening and twist the tensioner arm to slacken the alternator belt (Fig.3).

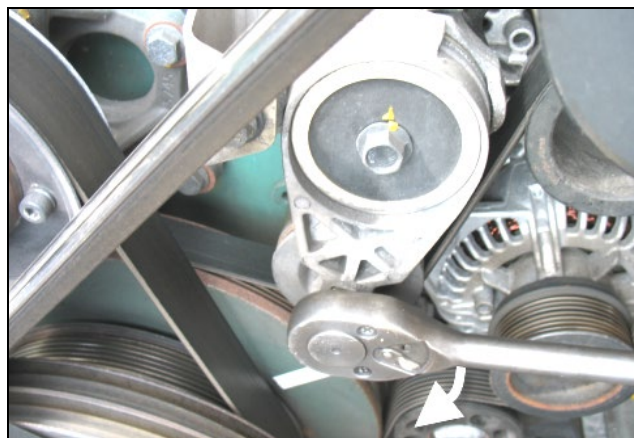


FIG.3 1/2" RATCHET USED TO TWIST TENSIONER ARM

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7. Slip the belt off the two alternator pulleys.
8. Using a rubber mallet, tap off the lower alternator idler pulley dust cap (lower pulley on Fig.1).
9. Unscrew the alternator idler pulley center retaining bolt and remove the idler pulley.

NOTE: Be cautious not to lose the spacer and washer (Fig.5) behind the bolt head.

PART 2 BEARING REPLACEMENT

NOTE: Procedure to remove and replace bearings is identical for both pulleys. Refer to Figure 4 below for installation.

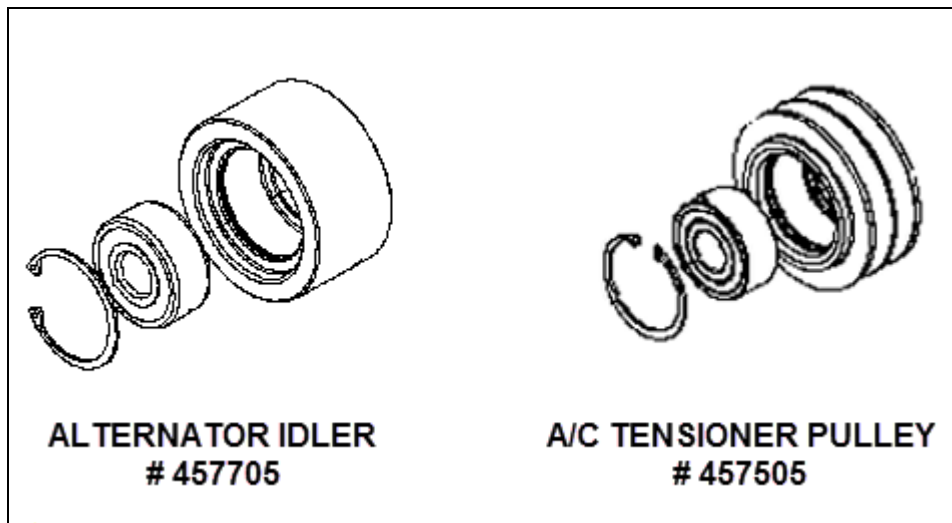


FIG.4 A/C TENSIONER AND ALTERNATOR IDLER BEARING REMOVAL / INSTALLATION

1. Remove the pulley inner snap rings using appropriate snap ring pliers.
2. Using a suitable bearing removal tool, press off the bearing out of the pulley assembly.
3. Still using suitable tools, insert a new bearing # **507014** into the pulley body until it bottoms out in the pulley body.
4. Reinstall the snap rings.

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PART 3 PULLEYS REINSTALLATION

1. Reinstall the alternator idler pulley on the vehicles as per Fig.5 below. Center bolt must be torqued to **74 lb-ft**. Apply yellow torque seal to the bolt head once completed (Fig.5).

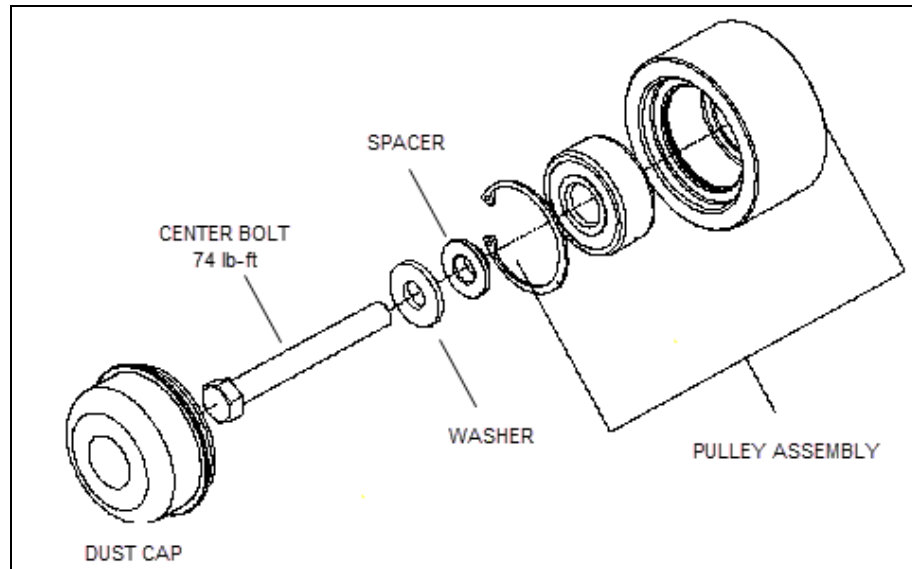


FIG.5 ALTERNATOR IDLER PULLEY INSTALATION

2. Put back the center dust cap over the idler pulley using a rubber mallet to avoid cap deformation (Fig.5 above).
3. Insert a 1/2" ratchet into the alternators automatic belt tensioner opening (Fig.6).

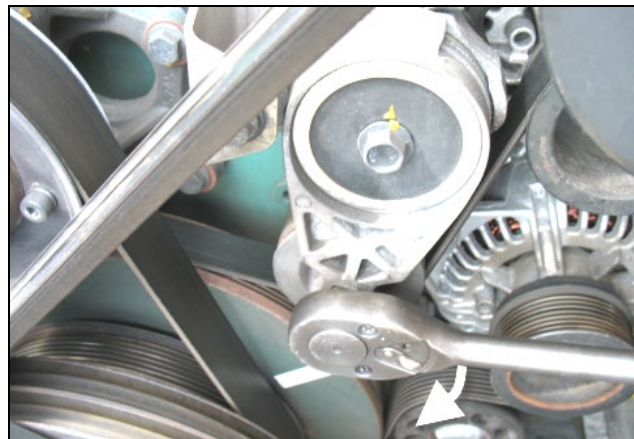


FIG.6 1/2" RATCHET USED TO TWIST TENSIONER ARM

4. Twist the tensioner arm and slide the alternator belt under the tensioner pulley (Fig.6).
5. With the wrench still holding the tensioner arm, pass the belt over the two alternator pulleys.
6. Release the tensioner arm to apply pressure to the belt (tensioner is automatic, no further belt adjustment is necessary).

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7. Reinstall the A/C idler pulley on the idler body, torque center bolt to **35 lb-ft** and add yellow torque seal stripe to the bolt head (Fig.7).

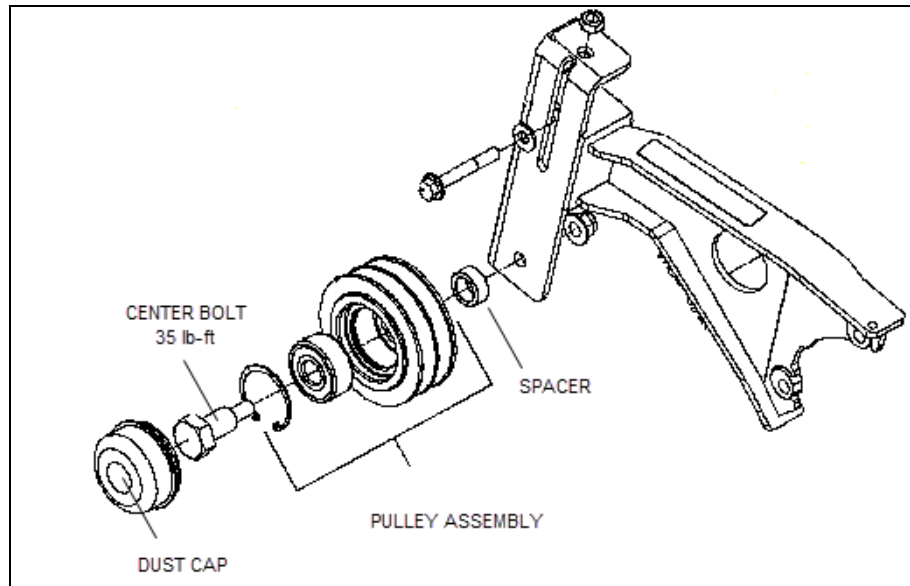


FIG.7 A/C TENSIONER PULLEY INSTALLATION

8. Put back the center dust cap over the idler pulley using a rubber mallet to avoid cap deformation.
9. Slide the two A/C belts in the idler and compressor pulley grooves.
10. Belt tension is applied through the tensioner adjustment screw (B). Tighten until the belts are under correct tension (Fig.8). Belt tension should be within the following values*:

New belts: 90-100 lbs.

Used belts: 75-85 lbs

**Check belt tension using a belt strand tension gauge.*

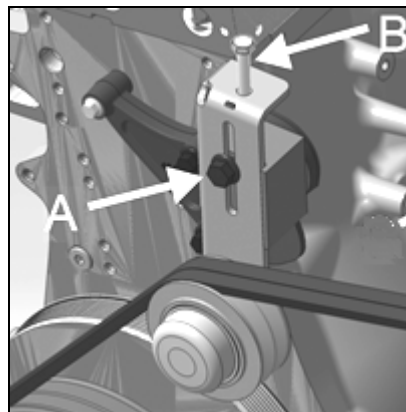


FIG.8 A/C BELTS TENSION ADJUST.

11. Once correct value is achieved, tighten lock screw (A) to **43 lb-ft** and add a stripe of yellow torque seal to the bolt head (Fig.8).
12. Once adjustment is completed, set the battery master switch (master cut-out) to the ON position, start the vehicle and allow the engine to run for about ten minutes. Check belt tension and adjust as required.

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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 0.75 (3/4) hour.

OTHER

OTHER

VBC Bulletin	N/A
Fail Code	01.01
Defect Code	09
Syst. Cond	B
Causal Part	507340

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