

**PREVOST**

ENREGISTRÉ - REGISTERED  
ISO 9001 & ISO 14001

**WARRANTY  
BULLETIN**

Wb05-05C



<b>DATE : JUNE 2006</b>	<b>SECTION : 05 - Cooling</b>
<b>EXPIRATION: JUNE 2008</b>	
<b>SUBJECT : RELIABILITY IMPROVEMENT OF RADIATOR FAN TRANSFER MECHANISM</b>	

**REVISION : C**

**ADDITION OF FAN GEARBOX PULLEY TIGHTENING TORQUE FOR COUPLING SLEEVE  
FIXING SCREWS**

**PART A: VEHICLES EQUIPPED WITH FORMER CLUTCH (SMALL)**

**APPLICATION**

<b>Model</b>	<b>VIN</b>
H3-41, H3-45 Coaches Model Year : 2004	 2PCH3349741014511 2PCH3349941014705 and from 2PCH3349X41014759 up to 2PCH3349441014966 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.	



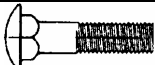
**DESCRIPTION**

Before performing PART B, vehicles equipped with former clutch (small) must first replace the clutch with the new 500 HP clutch using the following parts:

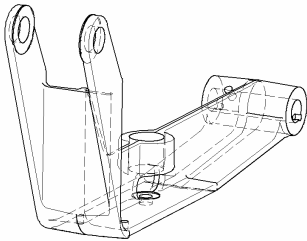
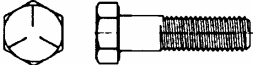
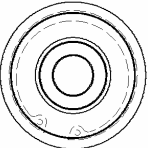




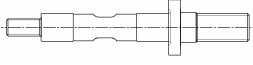



**MATERIAL**

Kit #052756 includes the following parts:

<b>Part No.</b>	<b>Description</b>	<b>Identification</b>	<b>Qty</b>
550839	Clutch, 500 HP Fan		1
052584	Pulley, Fan Gearbox		1
052477	Attachment, Spring		1

507627	Belt, Poly-V 12PK #2100		1
052476	Plate, Support		1
052492	Plate, Reinforcement Clutch Support		1
500680	Nut, Hex. Stover ZP M10 – 1.5		4
500444	Washer, Flat ZP .406 X .812 X .065		4
502891	Bolt, Carriage ZP M8 X 40		4

In addition to Kit #052756 you must also order the following parts:

Part No.	Description	Identification	Qty
052624	Arm, belt Tensioner		1
500145	Bolt, Hexagonal Head ZP 3/4-16 X 3.5 G5		1
052676	Idler Roller, Belt Tensioner Arm		1
500735	Nut, Hexagonal Stover ZP 3/4 – 16		1
5001628	Nut, Hexagonal Nylon Insert, SS M10-1.5		1
500270	Washer, Flat SS .406 X 1 X .063		1
507293	Bushing, Nylon 5/8 X 11/16 X 11/32 X 15/16		2
052670	Pivot, Belt Tensioner Arm		1
500449	Washer, Flat SS .625 X 1.5		AR
500802	Washer, Split-Lock ZP 41/64 X 1 15/32 X 9/64		1
502588	Nut, Hexagonal ZP M16-2		1

**NOTE**

Material can be obtained through regular channels.

## PROCEDURE

### **WARNING**

**Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.**

1. Locate the belt tensioner air pressure regulator then turn pressure releasing valve clockwise to release the pressure from the air bellows. Make sure all applicable safety precautions were taken.
2. Remove the belts from gearbox and fan clutch.
3. Disconnect the clutch power cable connector, note wire color coding;
  - o Brown wire – Pin A
  - o Blue wire – Pin B
  - o Yellow and green wire – Pin C
4. Remove fan drive pulley from gearbox.
5. Unfasten the bolts fixing the clutch onto the mounting base then remove the clutch. Set hardware aside.
6. Remove former belt tensioner arm from mounting base. Keep grease fitting.
7. Temporarily put fan clutch (550839) down onto mounting base then fix support plate (052476) onto mounting base using new carriage bolts (502891) and former nuts. Install fan clutch onto support plate and temporarily secure using new washers (500444) and nuts (500680) (Refer to figure 2).
8. Install reinforcement plate (052492) onto fan clutch support.
9. Fix the fan onto the clutch using the supplied bolts. Torque to 18 Lb-Ft dry.

### **CAUTION**

**Verify that play around fan blades is even and that blades do not touch the shroud when the clutch is in 1<sup>st</sup> or 2<sup>nd</sup> speed. Adjust the play by lifting or lowering the clutch. When the correct play is obtained, tighten the nuts fixing fan clutch onto the support plate.**

10. Fix new pivot (052670) onto belt tensioner arm (052624) using nylon insert hexagonal lock nut (5001628) and washer (500270) without forgetting the two nylon bushings (507293). Screw in grease fitting onto belt tensioner arm then grease pivot.
11. Fix idler roller (052676) onto belt tensioner arm using hexagonal head bolt (500145) and hexagonal Stover nut (500735).
12. Install new belt tensioner arm (052624) assembly onto mounting base and fix using split-lock washer (500802) and hexagonal nut (502588).

### **NOTE**

*If needed, insert flat washers (500449) between pivot and mounting base to adjust belt alignment.*

13. Install new spring attachment (052477) between mounting base and belt tensioner arm.
14. Reinstall compression spring between mounting base and spring attachment.
15. Install new pulley (059057) onto gearbox. Fix pulley coupling sleeve to mounting flange using key and 3 screws installed onto sleeve referring to plays indicated in figure 1. Torque 3 screws to 9 Lbf-ft (12 Nm) (Refer to figure 2).

### **CAUTION**

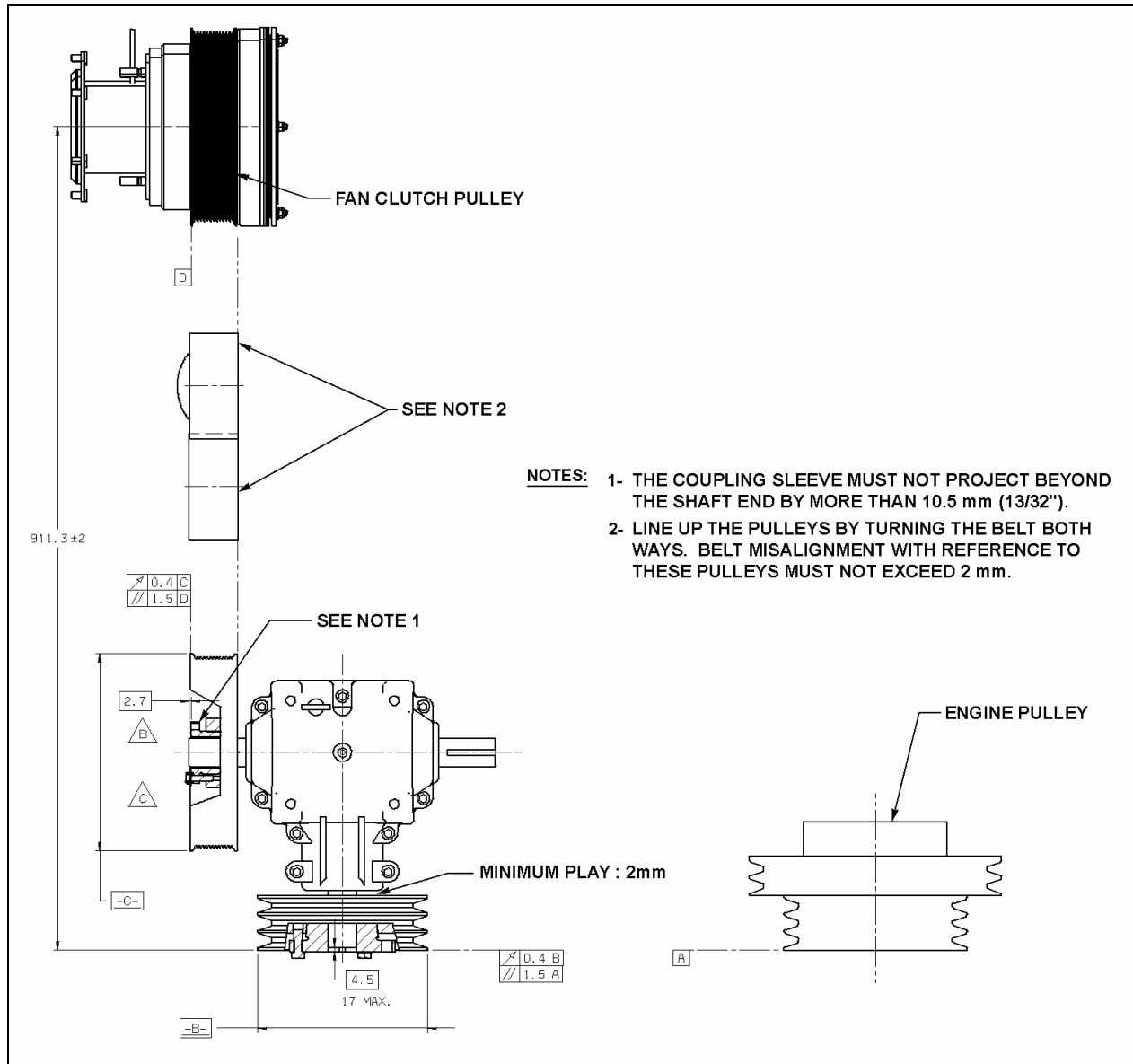
**Make sure to respect 3 screws tightening torque to avoid cracking pulley coupling sleeve.**

16. Route clutch power cable along the mounting base as per figure 2. Fix power cable connector onto clutch support using nylon cable ties (504637). As needed, drill 7-mm holes in order to install quick mounting wire clamps (509815) (504637) so as to secure cable.



**Make sure that enough play exists and that the cable does not run into the clutch or mounting base during clutch operation.**

17. Use a straight edge to properly align fan clutch pulley with gearbox pulley. Install belt (507627) over fan transfer mechanism pulleys, slightly unfasten gearbox fixing bolts in order to pivot the gearbox and properly align belt on the pulleys (Refer to figure 1). Retighten fixing bolts.



**FIGURE 1**

18. Reinstall belts on engine pulleys.  
19. Perform 2<sup>nd</sup> part of present Warranty Bulletin.

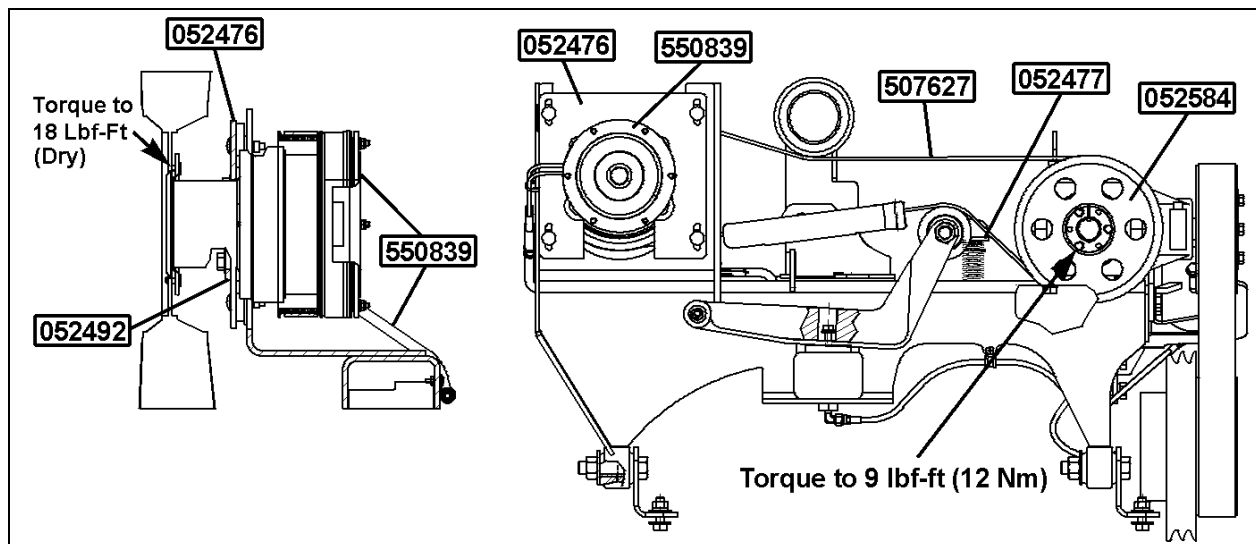



FIGURE 2

## PART B: VEHICLES EQUIPPED WITH NEW 500 HP CLUTCH

### APPLICATION

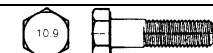
Model	VIN
H3-41, H3-45 Coaches Model Year : 2004 - 2005	 2PCH3349741014511 2PCH3349941014705 and from 2PCH3349X41014759 up to 2PCH3349851010260 incl.
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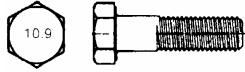

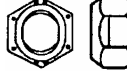
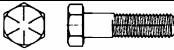


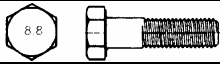


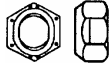
### DESCRIPTION

On the above-mentioned vehicles, an idler roller and air deflector must be added to the radiator fan transfer mechanism in order to improve reliability and to prevent the belt from slipping off the pulley groove.

### MATERIAL

Kit #052675 includes the following parts:

Part No.	Description	Identification	Qty
052661	Support, Idler Roller		1
500065	Screw, Cap Hex. Head DP M10 X 30 G10.9		3

500270	Washer, Flat SS .406 X 1 X .063		3
502616	Washer, Lock Split SS 10.2 X 18.1 X 2.2		3
500806	Screw, Cap Hex. Head DP M12 X 35 G10.9		1
500958	Washer, Flat SS .531 X 1.062 X .095		1
500811	Nut, Hex. Stover, DP M12 X 1.75		1
052666	Deflector, Air		1
5001433	Screw, Cap Hex. Head SS M6 X 25		2
500411	Washer, Flat SS .260 X .697 X .05		2
5001182	Nut, Hex. Nylon Insert, SS M6-1		2
052672	Idler Roller Assembly		1
510798	Cap, Protector		1
500829	Screw, Cap Hex. Head M10 X 40 G8.8		1
685072	Loctite 243 5 ml		1
012062	Washer, Flat		1
502558	Washer, Flat DP 21 X 37 X 3		1
5001252	Nut, Hex. stover, DP M20 X 2.5		1

**NOTE**

*Material can be obtained through regular channels.*

**PROCEDURE**

**⚠ WARNING ⚠**

**Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.**

1. Put 3 drops of "Loctite 243" (685072) in the bottom of the hole of the idler roller hub (052672) and one bead along the cap screw (500829) threads. Install flat washer (012062) and screw into idler roller hub then torque screw to 41-46 lb-ft dry (See figure 3). Install protective cap (510798) onto idler roller assembly.
2. Insert idler roller threaded end into the support (052661) top part hole. Install flat washer (502558) then tighten using hexagonal Stover nut (5001252).

- Unless previously done, release air pressure from bellows by turning counterclockwise the belt tensioner pressure releasing valve. Install idler roller support assembly onto the radiator fan transfer mechanism mounting base. Fix idler roller support assembly using screw (500806), flat washer (500958) and nut (500811) (See figure 3).

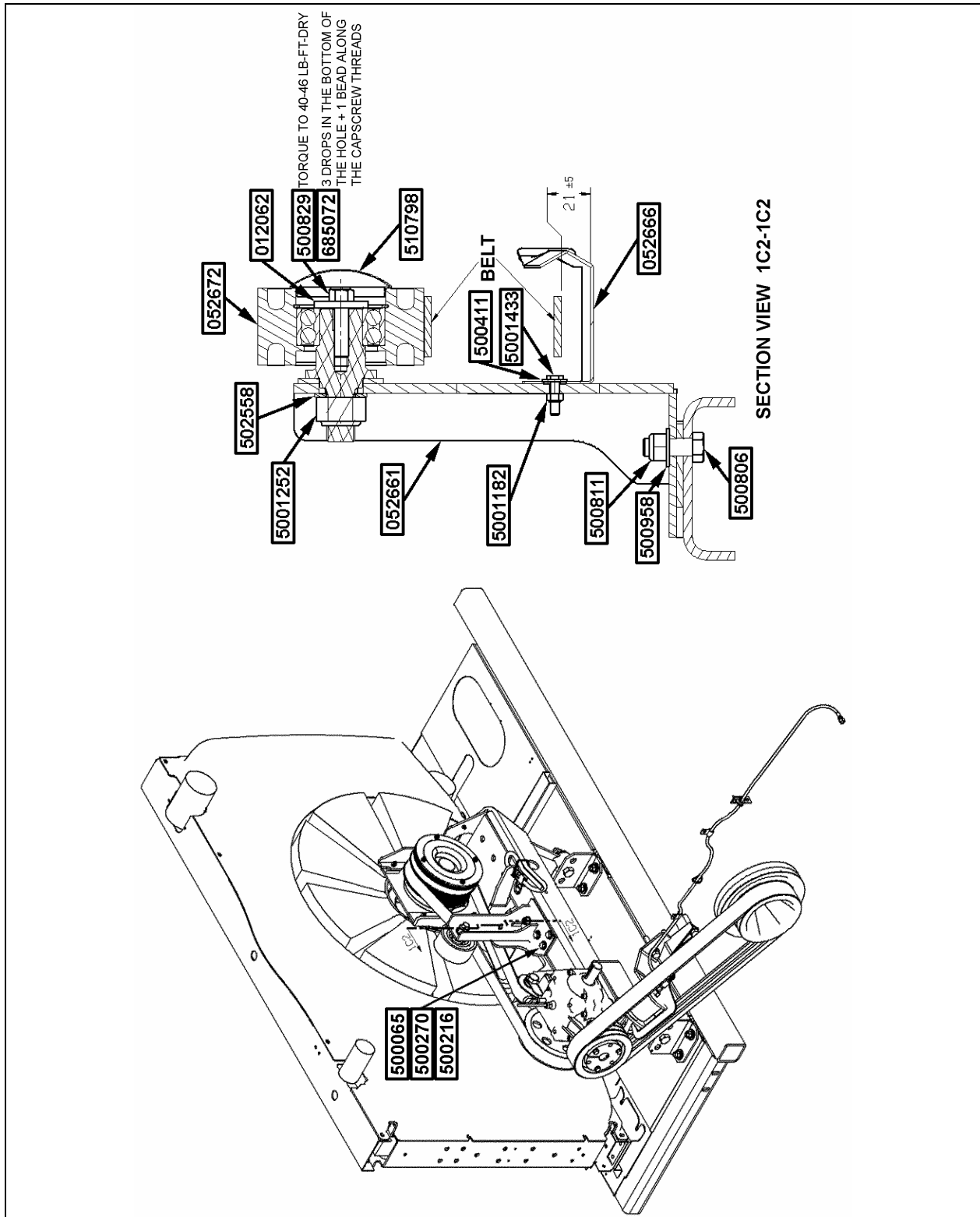


FIGURE 3

4. Idler roller support assembly is also secured onto the radiator fan transfer mechanism mounting base using 3 screws (500065), flat washers (500270) and split-lock washers (502616) (See figure 3).
5. Fix air deflector (052666) onto idler roller support assembly using 2 screws (5001433), flat washers (500411) and nylon insert hexagonal lock nuts (5001182). Make sure to locate the air deflector about 21 mm below the belt (See figures 3 and 4). Reapply air pressure to bellows by turning clockwise the belt tensioner pressure releasing valve.
6. Check operation of radiator fan transfer mechanism in 1<sup>st</sup> and 2<sup>nd</sup> speed

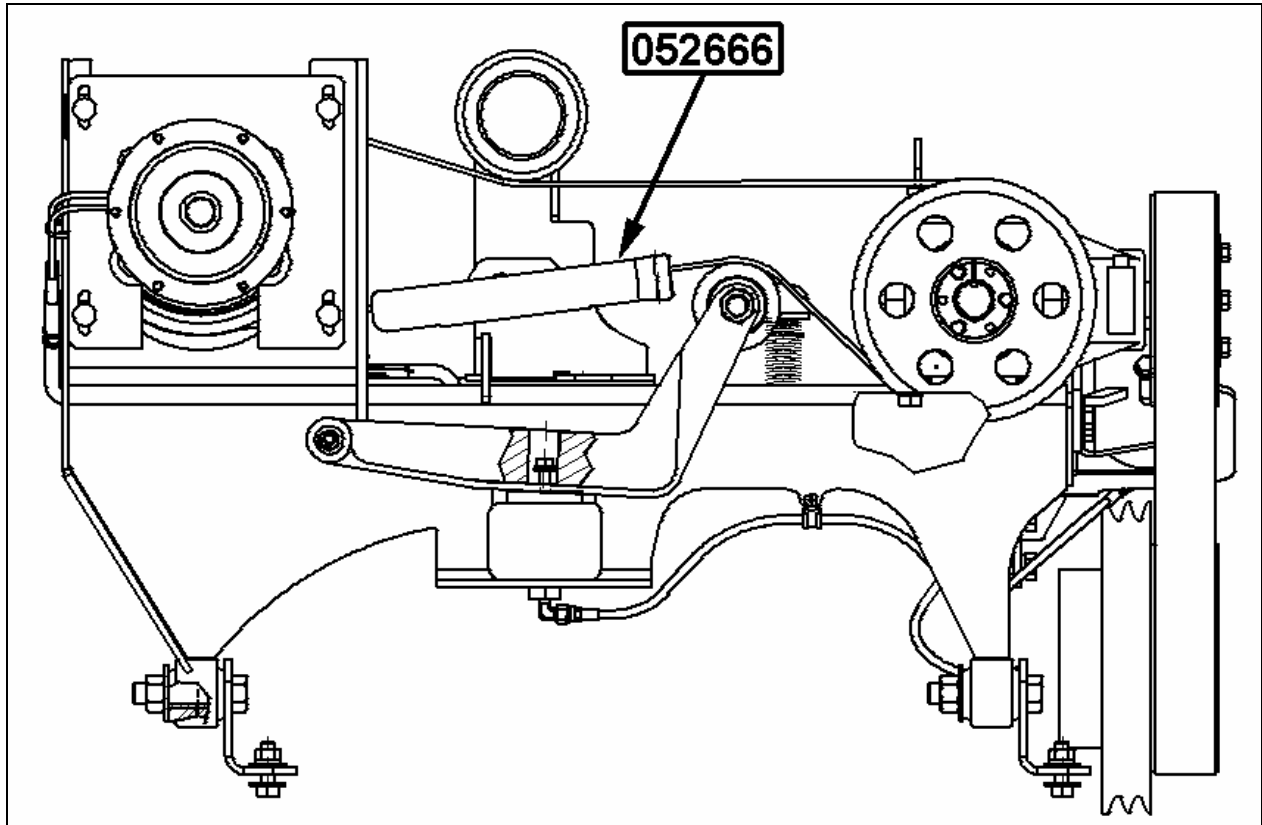


FIGURE 4

## WARRANTY

This modification is covered by PrevoSt Car's normal warranty. We will reimburse you the parts and four hours (4.0) of labor for performing part A and one hour (1.0) of labor for performing part B upon receipt of the completed A.F.A. form on which you must specify as per "Warranty Bulletin 05-05B".

## Parts / Waste disposal:

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)