



INSTRUCTION TO SERVICE

ITS: 61038		March 4, 2025
SECTION:	549-Heating, Ventilation & AC	
WRITTEN BY:	New Flyer Service Engineering	
SUBJECT:	R&R Engine Sheave & Replace Belt	
ISSUE:	AC belt splitting into two pieces. The engine sheave doesn't have chamfered edges where the belt contacts the sheave.	
SUMMARY:	Remove and discard existing sheave and belt replace with new.	

ITS61038

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.

PROCEDURE:

1. Set park brake and chock wheels.
2. Turn the main battery disconnect switch to the “OFF” position.
3. Open the rear engine bay door and remove the engine and compressor guards. Remove and discard the existing engine sheave, belt and hardware.

☞ **NOTE:** Ensure the new sheave (NF PN 601202_B) has chamfered edges as shown in Figure 1.

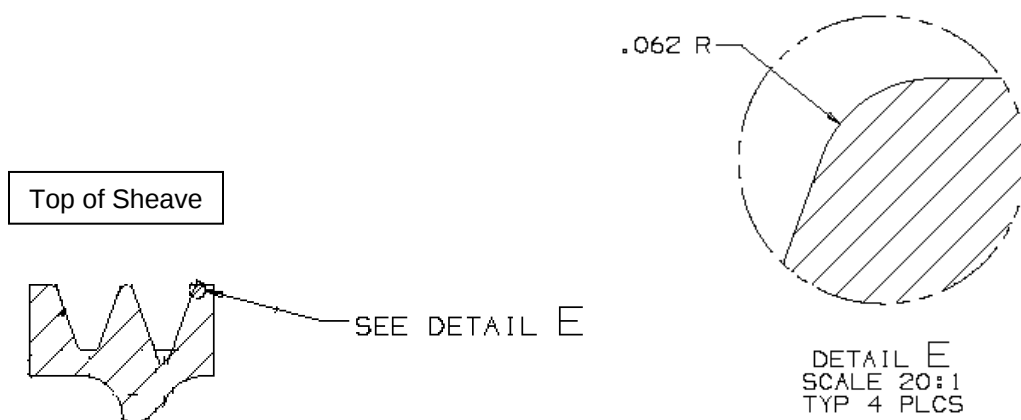


Figure 1: Chamfered Edges on New Engine Sheave

4. Install new engine sheave (NF PN 601202_B) using four new bolts (NF PN 883038). Torque to 80 – 85 Ft/Lbs dry. Add a torque mark. See Figure 2 & 3.



Figure 2: Torque Hardware and Add Torque Mark

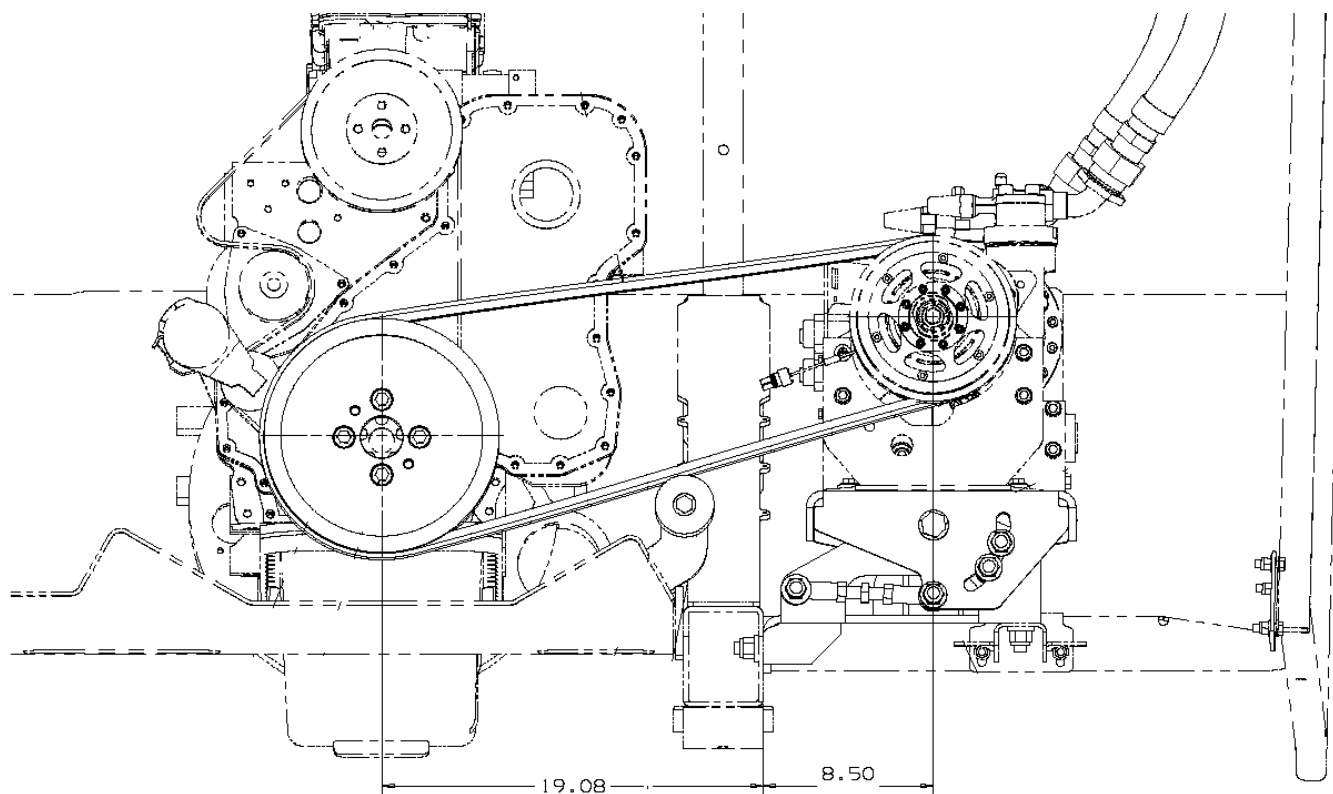


Figure 3: Install New Sheave and Belt

5. Install new belt (NF PN 862711) as shown in Figure 3. You will have to adjust the turnbuckle of the compressor plate in order to loosen/tighten the belt. Ensure belt is properly aligned as shown in Figure 4. Re-torque compressor plate nuts to 172 Ft/Lbs.

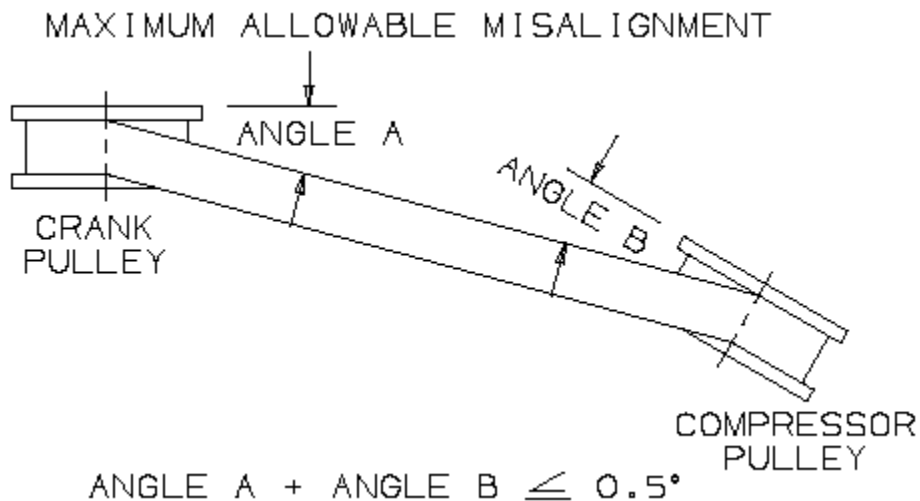


Figure 4: Belt Alignment

6. Set initial belt tension to 250 Ft/Lbs. Please road test the bus for a minimum of 2hrs or 40miles. After initial belt run in, check belt tension and retention to 200 – 215 Ft/Lbs if required.

7. Clean up all tools and return the bus to service condition.
8. Turn the main battery disconnect switch to the "ON" position.

LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	R&R Engine Sheave & Replace Belt	1	2.0	2.0
2	Road Test & Initial Belt Run In	1	2.0	2.0
3	Check Belt Tension and Retention as Required	1	0.5	0.5

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	601202	SHEAVE-2/5V 11.75 OD	1	EA	
2	862711	BELT-2/5V X 88.00LG KEVLAR	1	EA	
3	883038	SCREW-HEX HEAD M12 X 1.75 X 35MM	4	EA	