



TECHNICAL SERVICE INFORMATION BULLETIN

TSIB 21-03 Rev. A		April 23, 2021
TO:	All Operators	
TITLE:	Revised Air Compressor Scroll Bearing Lubrication Schedule	
APPLICABILITY:	All New Flyer Xcelsior Buses Equipped with Powerex Direct Drive Electric Scroll Type Air Compressors.	

New Flyer has observed instances of scroll bearing failure in Powerex direct drive electric air compressors due to inadequate lubrication. The grease in the scroll bearing oxidizes and breaks down over time due to high operating temperatures. It is important to keep the scroll bearing lubricated with fresh grease to ensure long bearing life and prevent compressor failure.

New Flyer recommends more frequent lubrication to ensure that the scroll bearing does not run dry due to grease oxidation. The bearing should be lubricated every six months using special grease NF P/N 6403622 in accordance with the procedure outlined in the New Flyer service manual using grease gun NF P/N 6403621. Two strokes of the grease gun (.65g of grease/pump) should be used to administer the correct amount of grease to the scroll bearing. Do not apply more than the recommended quantity of grease otherwise damage to the grease seals may occur.

The scroll bearing lubrication nipple is accessed through an access port on the street side of the compressor housing. In some cases there may also be an assess port on the curb side of the compressor. Figure 1. Remove the rubber plug that covers the access port.

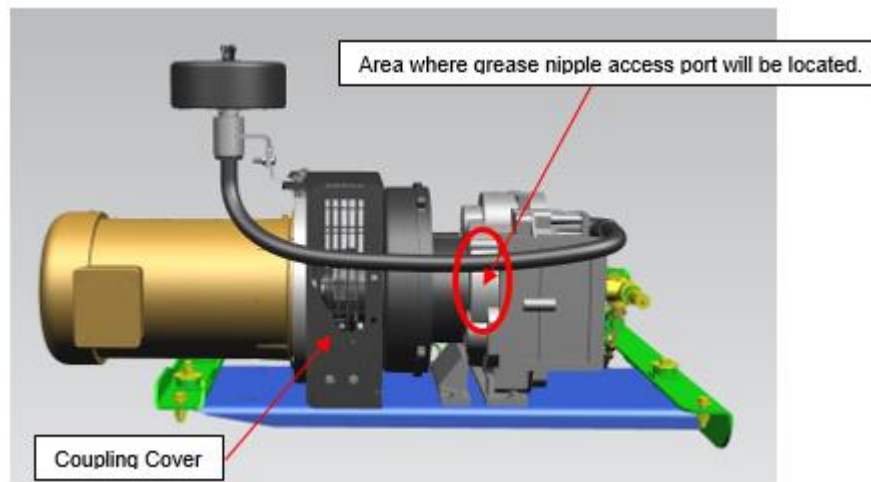


Figure 1: Location of Grease Nipple Access Port. (curb side version shown)

Remove the coupling cover (Figure 1) and turn the shaft to align the grease nipple with the access port. Using a Powerex grease gun (Special Tool P/N 6403621) and extension adaptor, engage the grease nipple and apply the correct amount (two strokes of the grease gun handle) of grease NF P/N 6403622. Figure 2.

NOTE: Pump grease gun before feeding, this eliminates air from the grease passage of the extension adaptor.

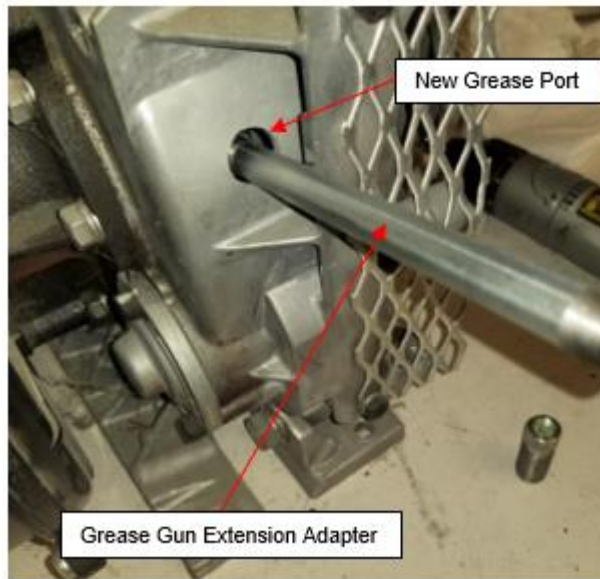


Figure 2: Grease Gun Extension Adapter on Grease Nipple.

Replace the rubber plug that covers the access port. If the rubber plug is missing, it may be replaced using a well nut NF P/N 6465413, bolt NF P/N 20B04012 and washer NF P/N 10W02000.

Direct all inquiries regarding this bulletin to:

James Ashdown

Technical Services Reliability Specialist

P 204.224.6724

james_ashdown@newflyer.com

New Flyer