



INSTRUCTION TO SERVICE

ITS: 6340

SECTION:	246 Air, Brake & Levelling System
WRITTEN BY:	Michael Rooney
SUBJECT:	Procedure for Checking Direct Drive Compressor Coupling Bolts.

ITS6340

THIS DOCUMENT AND THE CONTENTS DISCUSSED HEREIN ARE THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF NEW FLYER INDUSTRIES CANADA ULC AND NEW FLYER OF AMERICA INC. AND ARE DISCLOSED BY NEW FLYER IN CONFIDENCE. THIS DOCUMENT AND THE CONTENTS HEREIN ARE NOT TO BE DISCLOSED BY THE INTENDED RECIPIENT WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF NEW FLYER. ANY UNAUTHOIZED DISCLOSURE, REPRODUCTION OR OTHER DISTRIBUTION OF THIS DOCUMENT OR INFORMATION IS STRICTLY PROHIBITED AND MAY RESULT IN ACTION BEING TAKEN AGAINST THE PARTY MAKING THE UNAUTHORIZED DISCLOSURE. THIS DOCUMENT AND ALL COPIES HEREOF MUST BE RETURNED TO NEW FLYER UPON REQUEST.

PROCEDURE:

1. Turn the main battery disconnect switch to the “OFF” position.
2. Locate the air compressor unit.
3. Check the spec decal located on the top of the coupling guard. The first part of the compressor serial number contains the date code. For example (H) 05/17/16 – XXXXXXX – XXX.

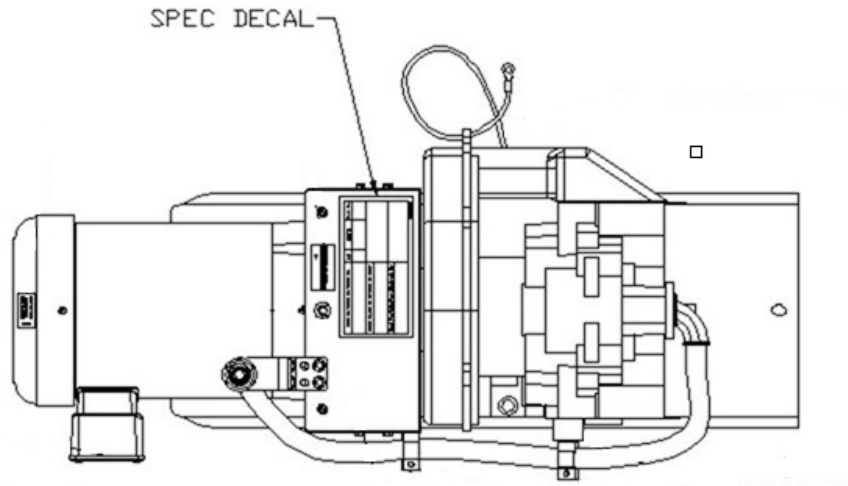


Figure 1: Spec Decal Location on Compressor Unit.

4. If the date code on the compressor spec decal falls between 1/11/16 and 5/17/17 then continue to the next step.
5. Remove Coupling Guard.
 - a. Remove the two ¼ inch screws from the top of the coupling guard and the two bolts from the after-cooler rubber support blocks.

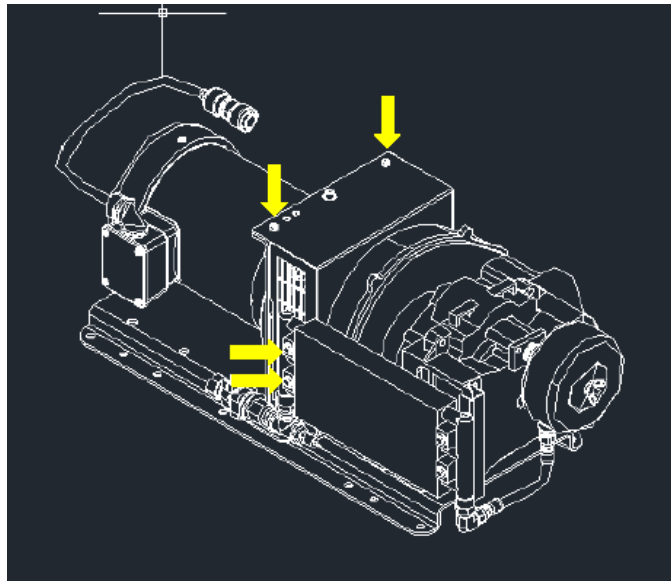


Figure 2: Coupling Guard & After Cooler Support Block Screw locations.

- b. Loosen the four 1/4 inch screws from the bottom of the coupling guard (two on each side of the unit). The slotted cut-outs in the guard will then allow the cover to slide upwards and be removed.

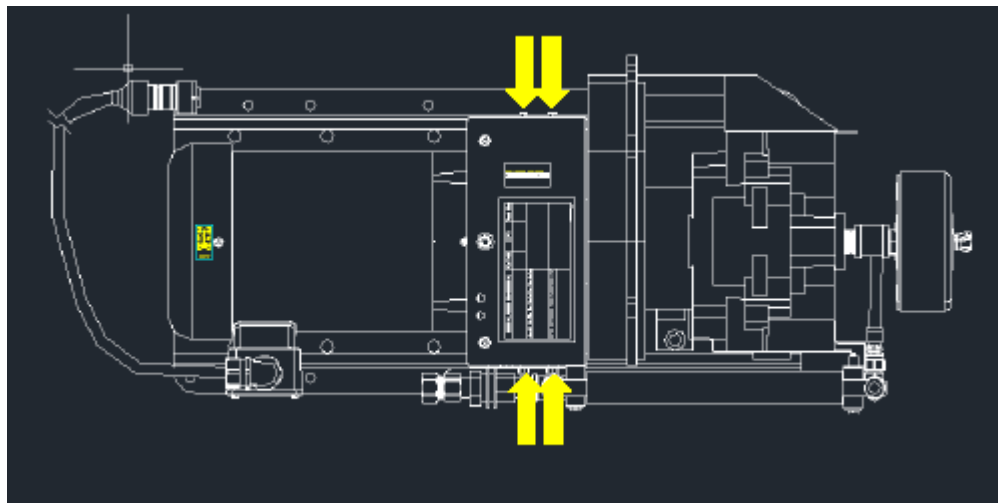


Figure 3: Screw Locations at Bottom of Coupling Guard.

6. Check Set-Screw.
 - a. Verify that the set-screw for the hub on the motor shaft is in place and sealed with Loctite.
 - b. If the set screw easily backs out, remove it, apply Loctite 243 NF P/N 081034 to threads and torque to 7.5 ft-lbs.

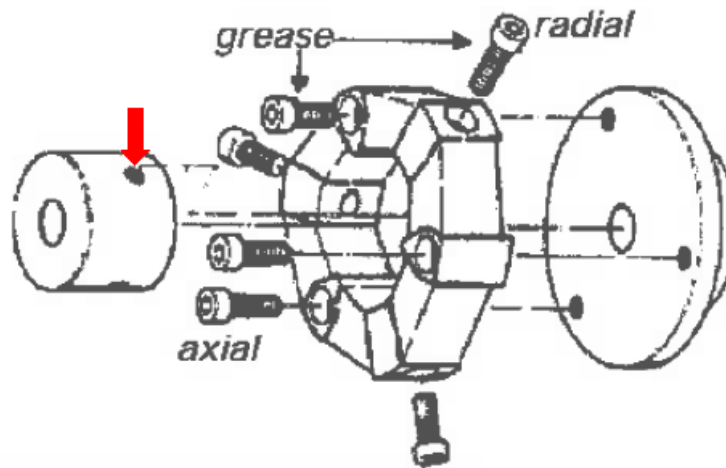


Figure 4: Set Screw Location.

7. Replace Radial Coupling Screws.

- a. Remove the three radial M10 screws from the rubber coupling element.

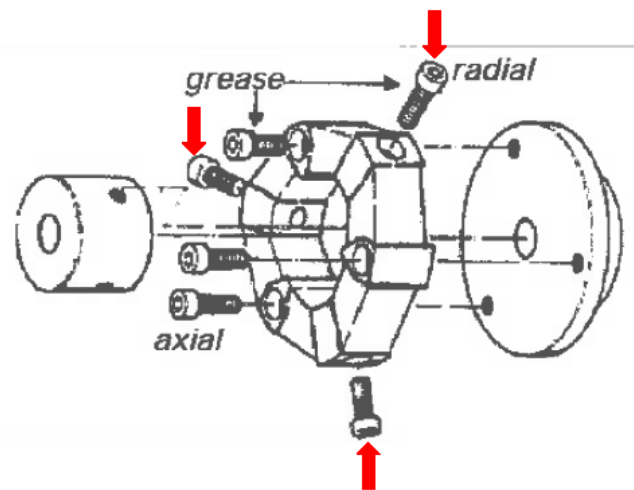


Figure 5: Radial Screw Locations.

- b. Prepare the new radial screws for installation by applying a small amount of grease under the head of the screw on the flat surface. DO not allow any grease to come into contact with the threaded area.
- c. Install new radial screws with pre-applied thread lock adhesive supplied by Powerex.
- d. Start each screw by hand to engage the threaded hole, then tighten each screw after all are engaged. Torque each screw to 37 ft-lbs.
- e. Once torqued, mark with paint or chalk for visual indication of torqued joint.



Figure 6: Torque Marked Screw.

8. Reassemble Coupling Guard

- a. Torque the four ¼ inch screws attaching coupling guard to motor support to 8 ft-lbs.

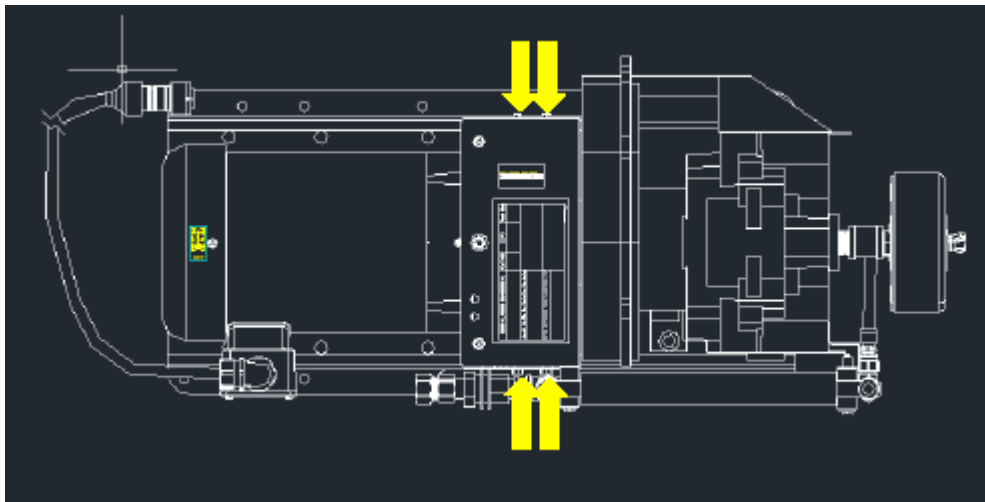


Figure 7: Screw Locations at Bottom of Coupling Guard.

- b. Torque the two bolts compressing the after-cooler rubber support blocks to 18-24 inch-lbs. Look for rubber blocks to compress and be snug in the gap between the after-cooler tubes.

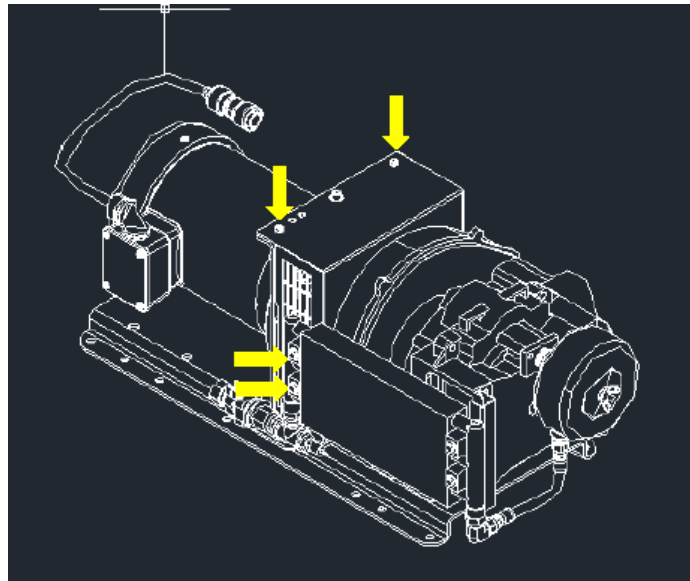


Figure 8: Coupling Guard & After Cooler Support Block Screw locations.

9. Adhesive Cure Time.
 - a. Allow pre-applied thread adhesive to cure for 5 hours prior to operation of unit.
10. Remove all tools and debris and return the bus to service condition.
11. Turn the main battery disconnect switch to the “ON” position.

LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Check Direct Drive Compressor Coupling Bolts.	1	0.5	0.5

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	N/A	Coupler Screws	3	EA	Vender to Supply
2	081034	Loctite 242	0.01	EA	
3	N/A	Grease			Source Locally

SPECIAL TOOLS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
		No Special Tools Required.			