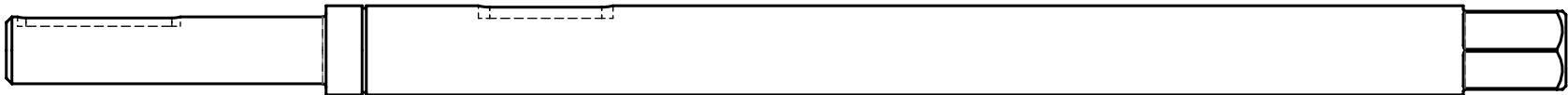


**972194 - HEX SHAFT CONVERSION PARTS  
FOR FAN MODELS**

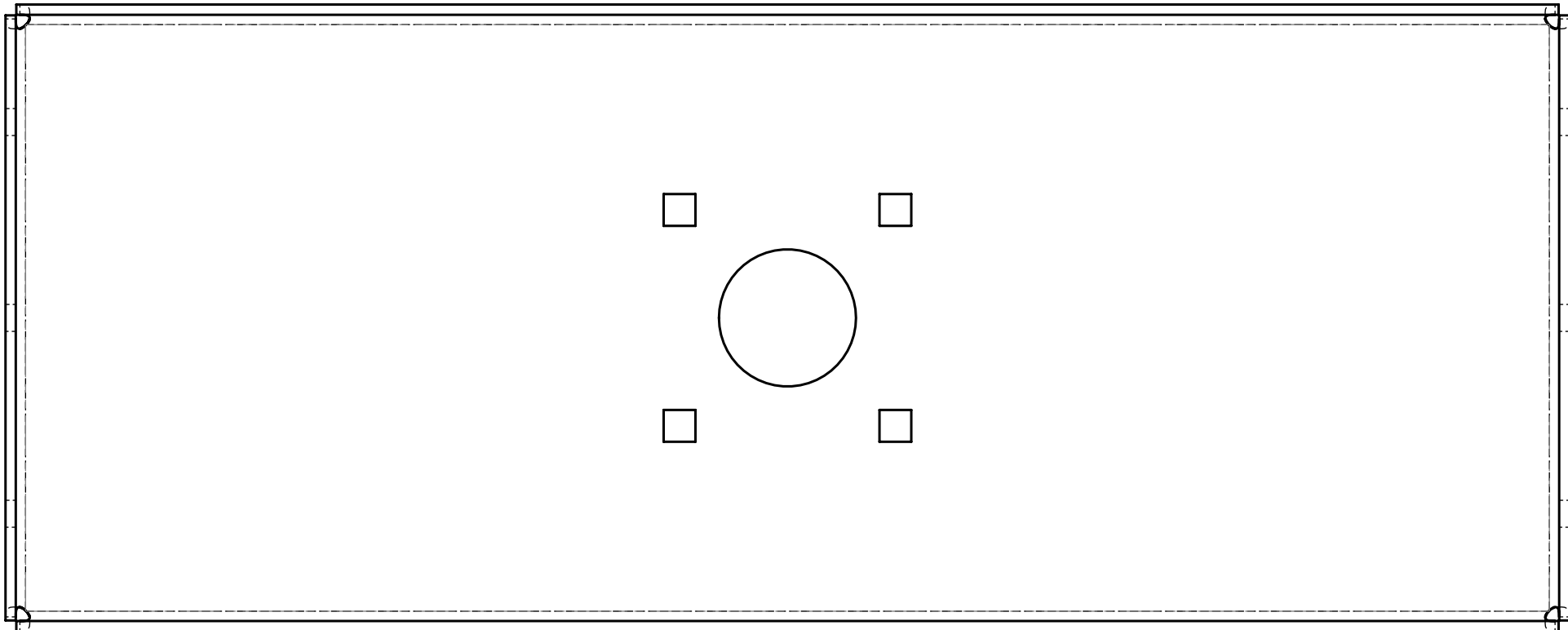
**972090, 972120, 972140, 972160, 972180, 972360, 972380**

**(This set of installation instructions is intended for Hemisphere fans that have their top bearing plate facing up so that the upper bearing is inaccessible.)**

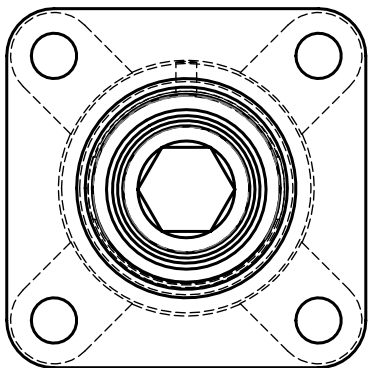
**If you have a hex bearing already, please call customer service for list of parts and procedures recommended for repairs.)**



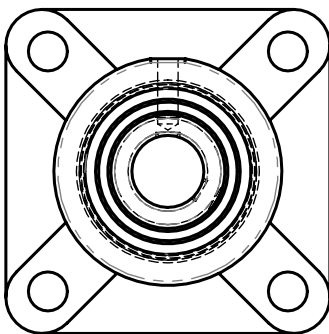
972055 - SHAFT, 1.0" DIA, F/HEX BRG



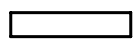
972054 - SUPT, TOP, HEX BRG



972118 - 7/8" HEX BRG.



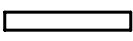
972021 - .75" DIA. BRG.



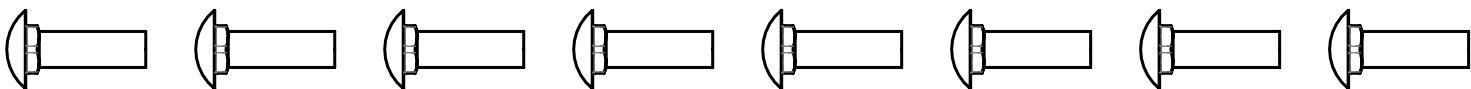
410431 - 1/4" SQ. X 1-1/4 KEY



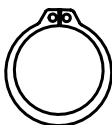
010665 - 3/8-16 X 1-1/2 HEX BOLT



ZV7611 - 3/16" SQ. X 1-5/16 KEY



690309 - 3/8-16 X 1-1/4 CRG. BOLT



690295 - SNAP RING



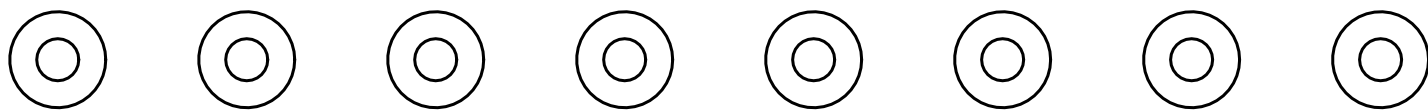
972127 - CAP, NYLON FOR Ø 1.75" HOLE




936054 - 3/8-16 NYLOK NUT



MH90172 - 5/16-18 X 3/4" SS HEX BOLT



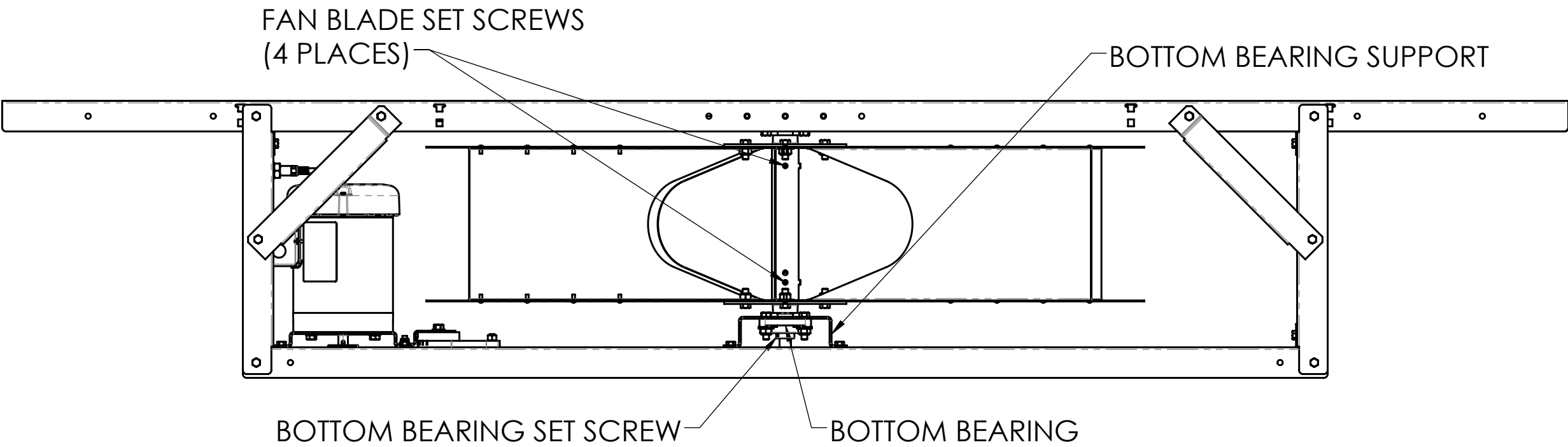
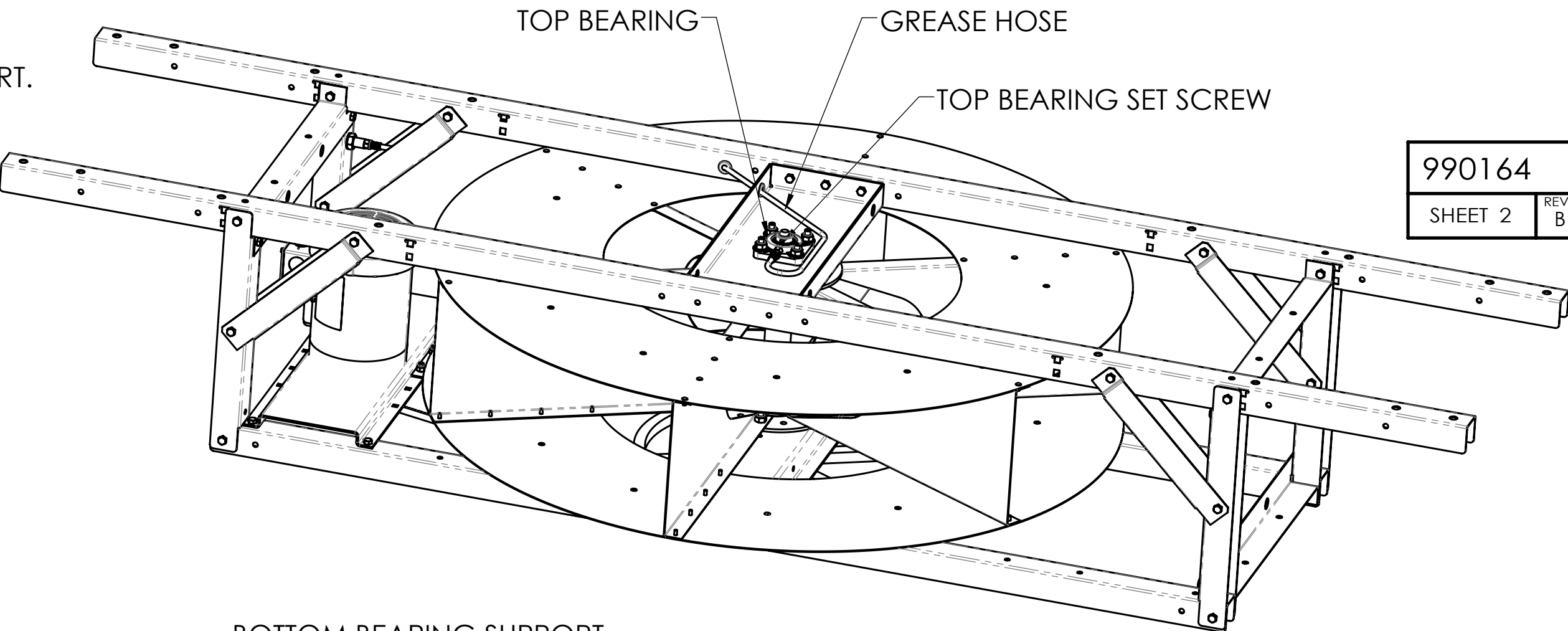
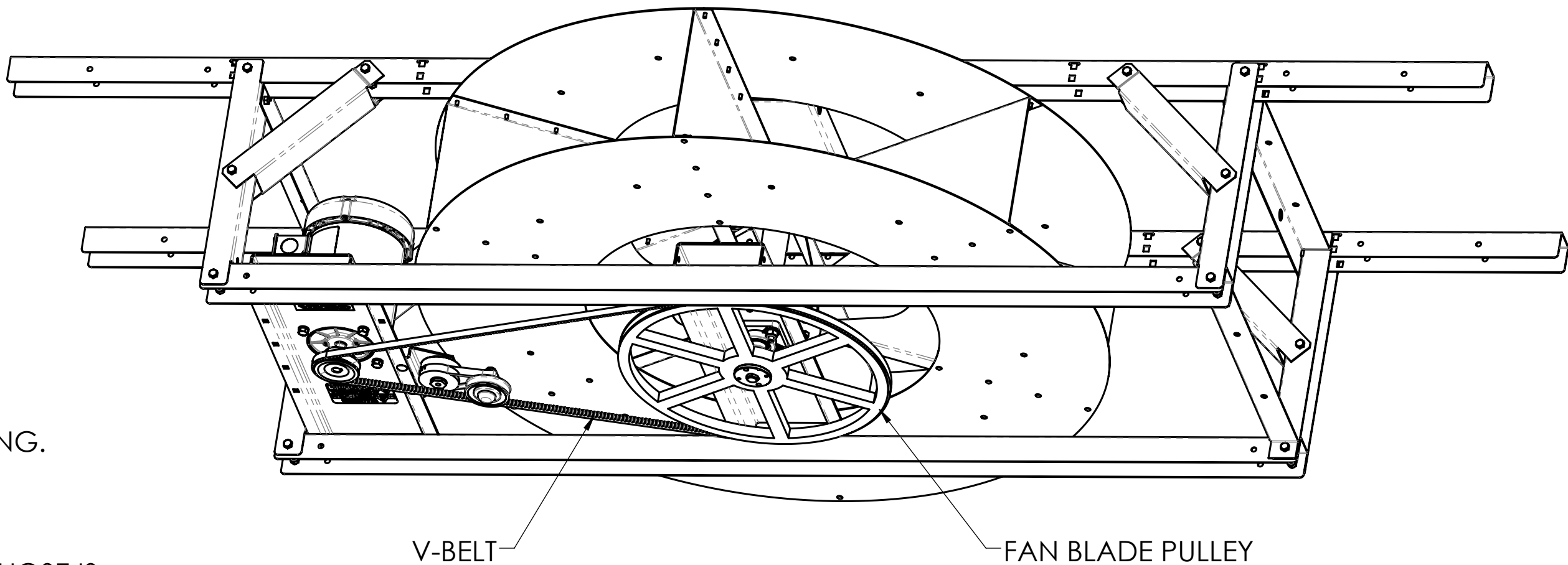
010430 - 3/8 FLAT WASHER

UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSINS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	 <b>VALCO COMPANIES, INC.</b> PO BOX 8 NEW HOLLAND, PA 17557
This drawing and any print thereof is the property of VALCO COMPANIES INC. and is subject to return on request by this company. The information shown is confidential and the recipient by accepting this drawing agrees not to use any information contained thereon in any manner which will be detrimental to VALCO COMPANIES INC.	DATE 08/15/16 DRAWN RAE CHECK - WEIGHT 0.1 SCALE 1:2	DESCRIPTION 1 INSTALL INSTRUCTIONS FOR HEX DESCRIPTION 2 SHAFT CONVERSION, HEMISPHERE
REV ECN#	DESCRIPTION	SHEET 1 OF 4
		990164
		REV. B


B	13880	ADDED 972127, ADDED NEW STEP 17 IN WHICH 972127 IS INSTALLED.	5/31/2017	RAE
A	13698	ADDED (4) MH90172, REVISIONS TO STEP 16 AND 18.	4/7/2017	SAL
REV	ECN#	DESCRIPTION	DATE	BY

INSTALLATION INSTRUCTIONS

- 1. READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION.
- 2. **SHUT OFF POWER TO FAN.**
- 3. REMOVE WIRE GUARD SCREEN FROM AROUND FAN.
- 4. DISCONNECT WIRES FROM MOTOR IF NEEDED AND LOWER FAN ASSEMBLY FROM CEILING TO GAIN ACCESS TO TOP BEARING.
- 5. REMOVE FAN BLADE PULLEY AND V-BELT.
- 6. REMOVE GREASE HOSE FROM TOP BEARING AND DISCARD. HOSE IS NO LONGER NEEDED.
- 7. LOOSEN (4) FAN BLADE SET SCREWS.
- 8. LOOSEN TOP AND BOTTOM BEARING SET SCREWS.
- 9. REMOVE BOTTOM BEARING FROM BOTTOM BEARING SUPPORT.



990164  
SHEET 2 REV. B

UNSPECIFIED TOLERANCES 2 PLACE ±.060 3 PLACE ±.030 4 PLACE ±.010 HOLE DIA. ±.010 ANGULAR ±1°	DIMENSINS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE		 <b>VALCO COMPANIES, INC.</b> PO BOX 8 NEW HOLLAND, PA 17557
	DATE 08/15/16	DESCRIPTION 1	
This drawing and any print thereof is the property of VALCO COMPANIES INC. and is subject to return on request by this company. The information shown is confidential and the recipient by accepting this drawing agrees not to use any information contained thereon in any manner which will be detrimental to VALCO COMPANIES INC.	DRAWN RAE		DESCRIPTION 2
CHECK		WEIGHT 0.1	SHAFT CONVERSION, HEMISPHERE
SCALE 1:8		SHEET 2 OF 4	990164 REV. B

INSTALLATION INSTRUCTIONS CONT.

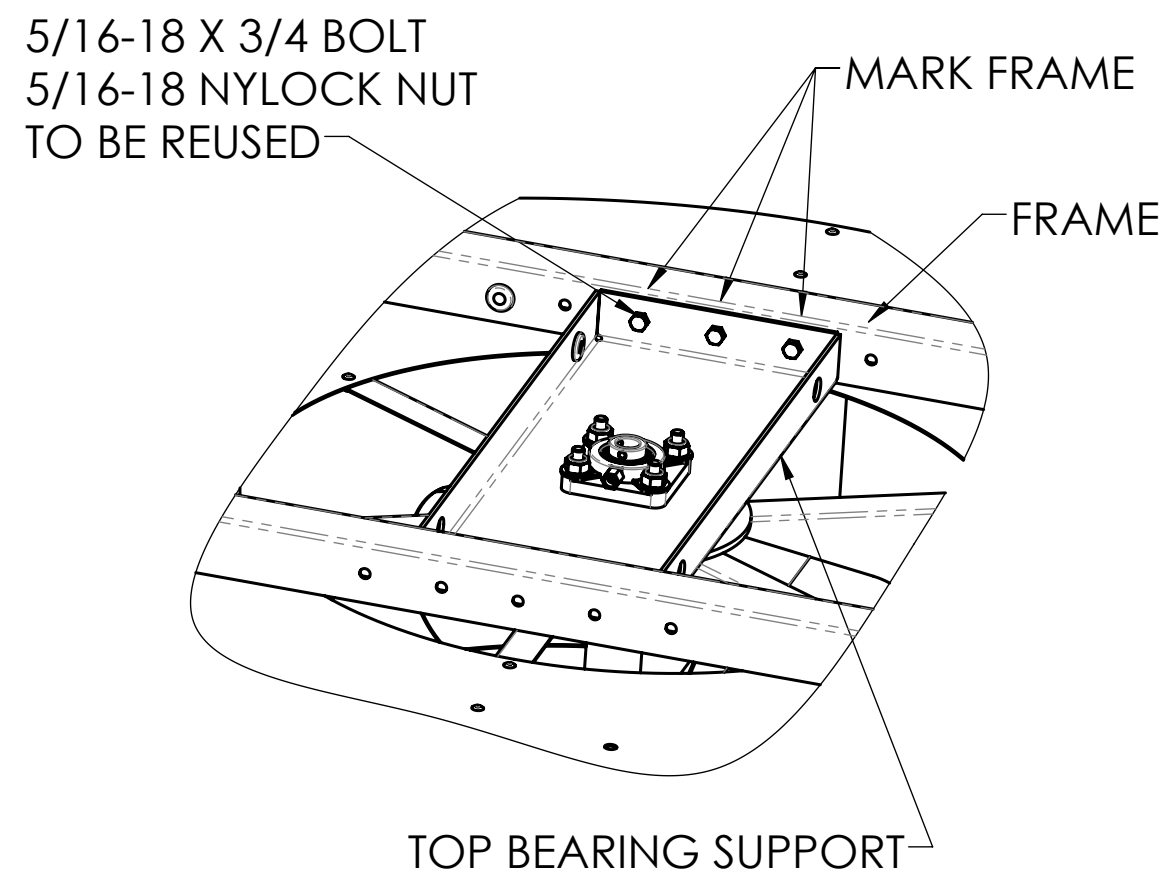
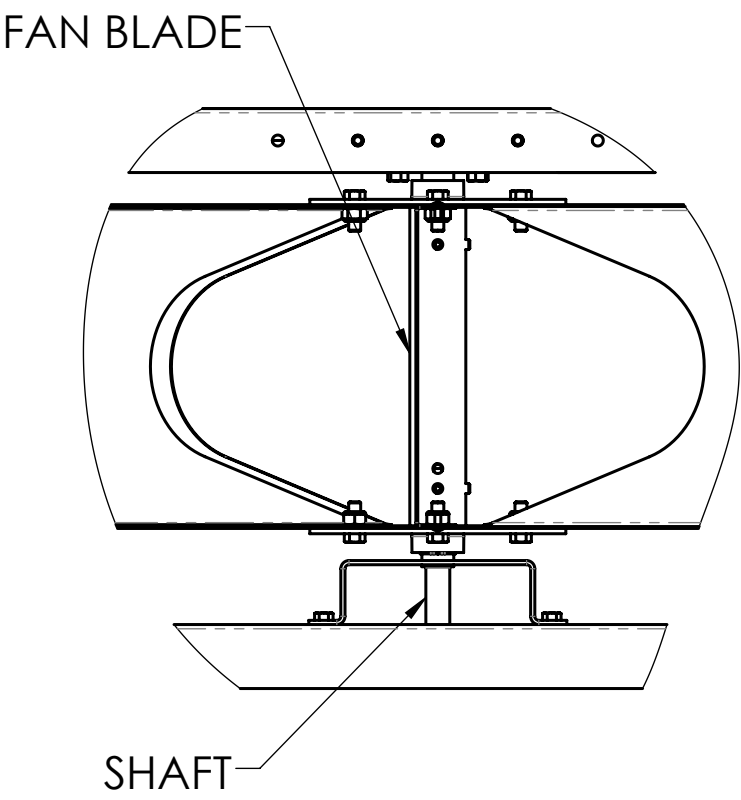
10. SLIDE SHAFT FROM FAN BLADE. CAUTION MUST BE USED AS FAN BLADE IS NO LONGER SECURED TO THE FAN ASSEMBLY.

11. MARK THE HOLES IN THE FRAME WHERE THE (6) 5/16-18 X 3/4 BOLTS SECURE THE TOP BEARING SUPPORT TO THE FRAME. THESE HOLES MUST BE USED AGAIN WHEN REASSEMBLING THE NEW TOP BEARING SUPPORT. HOLES USED MAY NOT BE THE SAME ONES SHOWN IN THE ILLUSTRATION DEPENDING ON THE MODEL OF THE FAN.

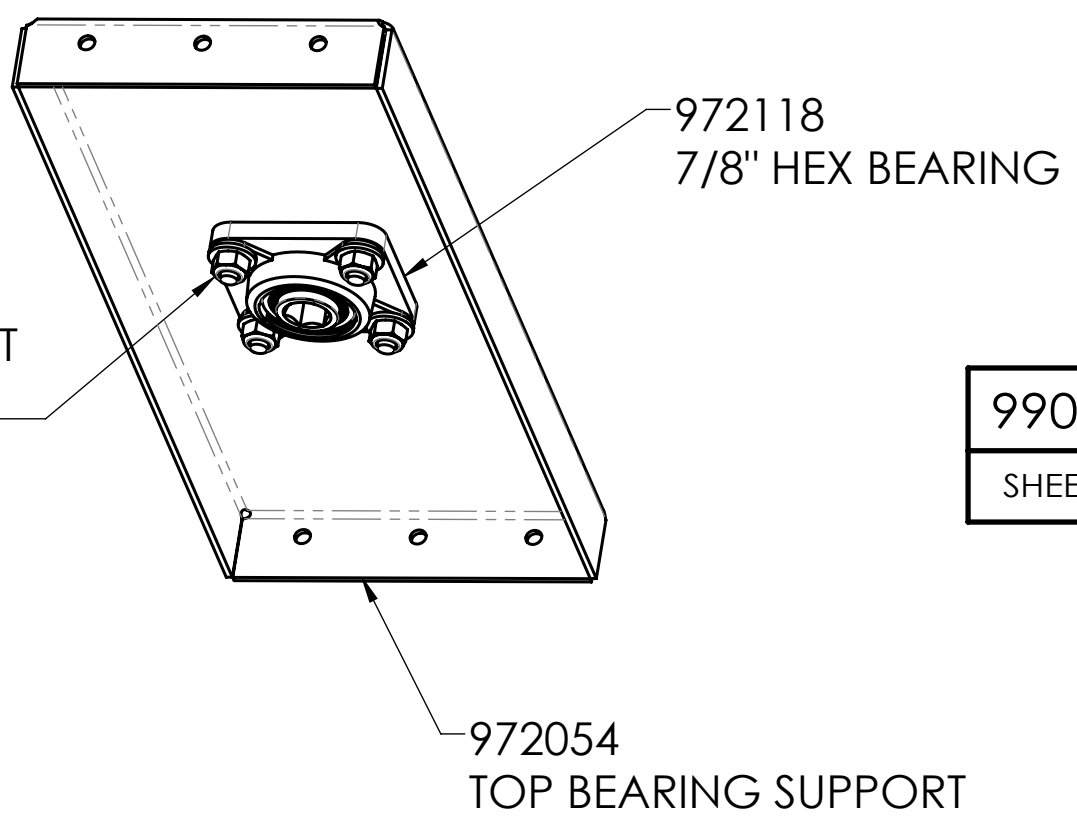
12. REMOVE THE (6) 5/16-18 X 3/4 BOLTS AND NYLOCK NUTS SECURING THE TOP BEARING SUPPORT TO THE FRAME. SET THIS HARDWARE ASIDE TO BE REUSED.

13. INSTALL THE NEW 7/8" HEX BEARING (972118) IN THE NEW TOP BEARING SUPPORT (972054) USING THE SUPPLIED HARDWARE SHOWN IN THE ILLUSTRATION.

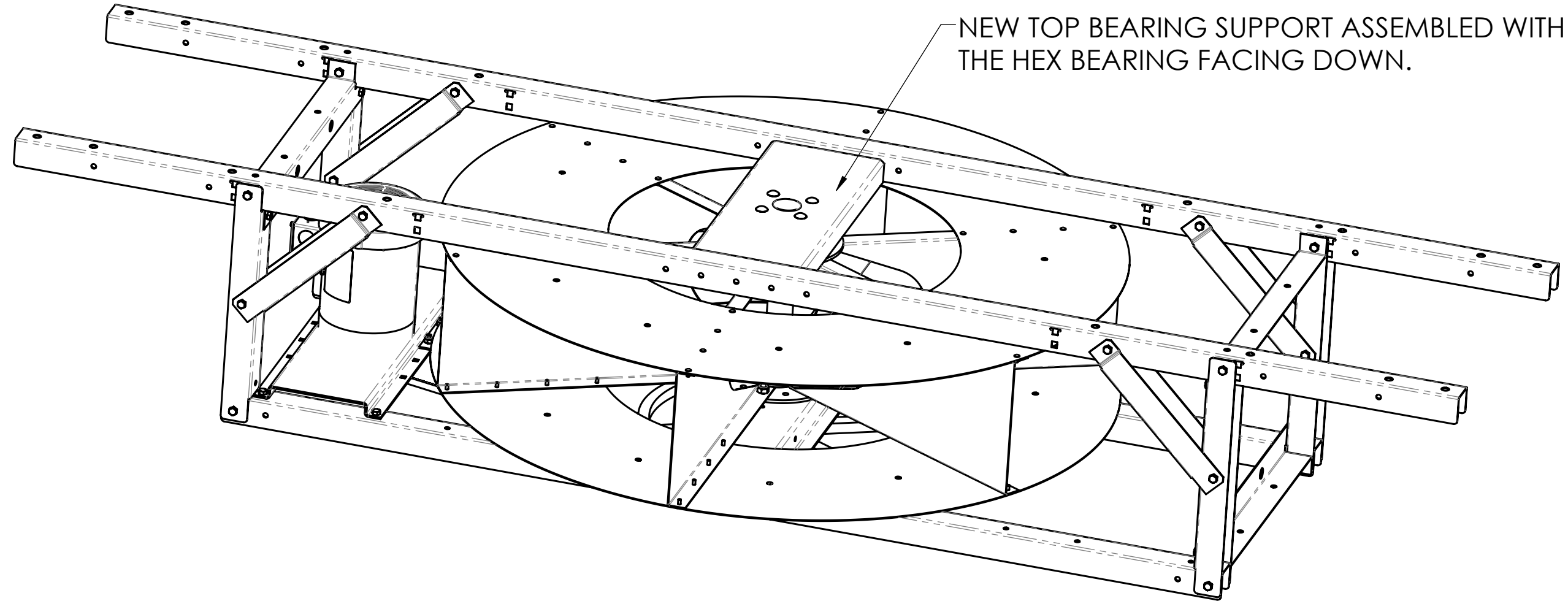
14. INSTALL THE NEW TOP BEARING SUPPORT (972054) AND 7/8" HEX BEARING (972118) TO THE FAN FRAME USING THE FRAME HOLES THAT WERE PREVIOUSLY MARKED AND THE 5/16-18 X 3/4 BOLTS AND NYLOCK NUTS THAT WERE SET ASIDE. NOTE THAT WHEN ASSEMBLED CORRECTLY THE HEX BEARING IS NOW ON THE UNDERSIDE OF THE TOP BEARING SUPPORT.




690309  
3/8-16 X 1-1/4 CRG BOLT  
936054  
3/8-16 NYLOCK NUT  
010430  
3/8 FLAT WASHER



990164  
SHEET 3 REV. B



UNSPECIFIED TOLERANCES 2 PLACE ±.060 3 PLACE ±.030 4 PLACE ±.010 HOLE DIA. ±.010 ANGULAR ± 1°		DIMENSINS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE		 <b>VALCO COMPANIES, INC.</b> PO BOX 8 NEW HOLLAND, PA 17557	
DATE 08/15/16		DRAWN RAE		DESCRIPTION 1 INSTALL INSTRUCTIONS FOR HEX	
CHECK		WEIGHT 0.1		DESCRIPTION 2 SHAFT CONVERSION, HEMISPHERE	
SCALE 1:8		SHEET 3 OF 4		990164	
				REV. B	

INSTALLATION INSTRUCTIONS CONT.

15. INSTALL SNAP RING (690295) AND 1/4" SQ. X 1-1/4 KEY (410431) ON THE NEW SHAFT, 1.0" DIA, F/HEX BRG (972055).

16. SLIDE THE NEW SHAFT THROUGH THE BOTTOM BEARING SUPPORT, FAN BLADE, AND NEW HEX BEARING.

17. PRESS NYLON CAP (972127) IN THE 1.75 DIA. HOLE IN THE TOP BEARING SUPPORT TO COVER THE HEX BEARING.

18. INSTALL THE NEW .75" DIA. BEARING (972021) ON THE SHAFT AND BOTTOM BEARING SUPPORT WITH THE 3/8-16 NUTS AND BOLTS SHOWN IN THE ILLUSTRATION. TO BE ABLE TO GREASE THE BEARING, THE BEARING GREASE ZERK MUST BE LOCATED AS SHOWN POINTING TOWARD THE OPEN END OF THE BOTTOM BEARING SUPPORT. IF YOUR FAN IS AN NEWER MODEL YOU MAY NEED TO USE THE 3/8-16 X 1-1/4 CRG. BOLTS (690309) SUPPLIED.

19. APPLY ANTI-SEIZE LUBRICANT TO (4) MH90172 (SS BOLTS) THEN TIGHTEN ON THE FAN BLADE AND THE SET SCREW ON THE .75" DIA. BEARING.

20. INSTALL THE 3/16" SQ. X 1-5/16 KEY (ZV7611) ON THE SHAFT.

21. REASSEMBLE THE FAN BLADE PULLEY AND V-BELT ON THE FAN.

22. CHECK BELT TENSION. BELT TENSIONER SHOULD BE SET AT THE SECOND WITNESS MARK.

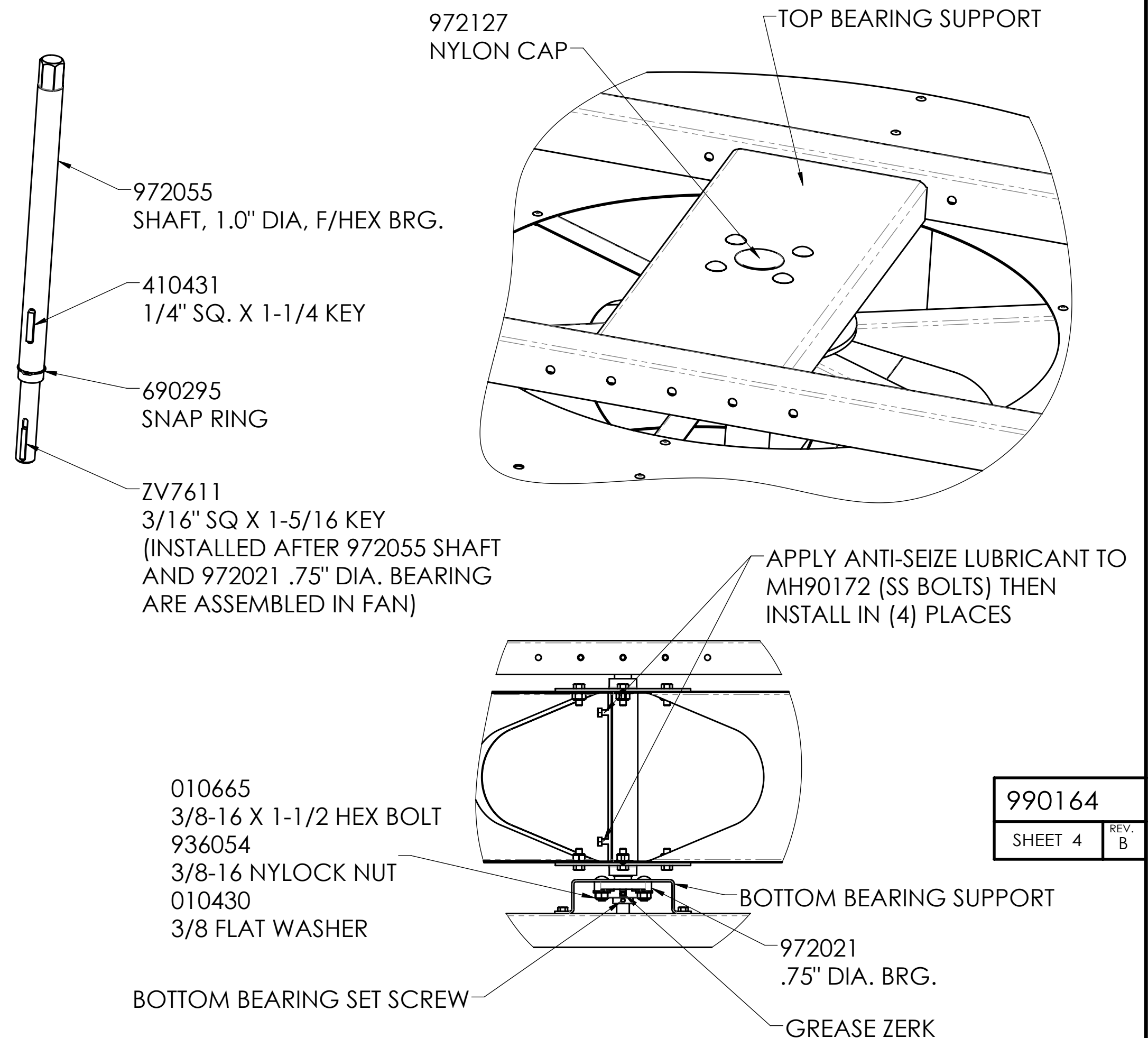
23. REINSTALL THE FAN ASSEMBLY.

24. RECONNECT WIRES TO MOTOR.

25. BE SURE NO TOOLS ARE LEFT LAYING ON THE FAN ASSEMBLY.

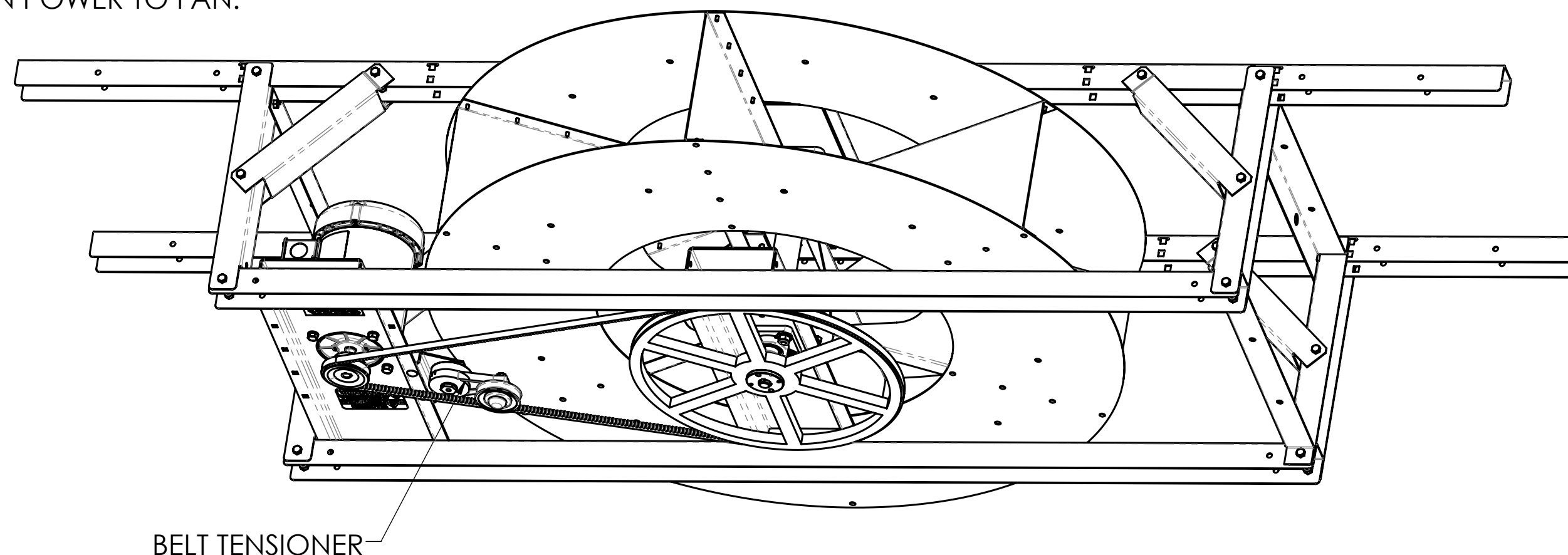
26. REINSTALL WIRE GUARD AROUND FAN ASSEMBLY.


27. TURN ON POWER TO FAN.



990164

SHEET 4 REV. B



UNSPECIFIED TOLERANCES 2 PLACE ±.060 3 PLACE ±.030 4 PLACE ±.010 HOLE DIA. ±.010 ANGULAR ± 1°		DIMENSINS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE		 <b>VALCO COMPANIES, INC.</b> PO BOX 8 NEW HOLLAND, PA 17557	
DATE 08/15/16		DRAWN RAE		DESCRIPTION 1 INSTALL INSTRUCTIONS FOR HEX	
CHECK		WEIGHT 0.1		DESCRIPTION 2 SHAFT CONVERSION, HEMISPHERE	
SCALE 1:8		SHEET 4 OF 4		990164	
				REV. B	