

QUICK SHEET INSTRUCTIONS

REPLACING THE MOTOR (972151) ON HIGH CAPACITY 72" HEMISPHERE FANS (972160 AND 972360)

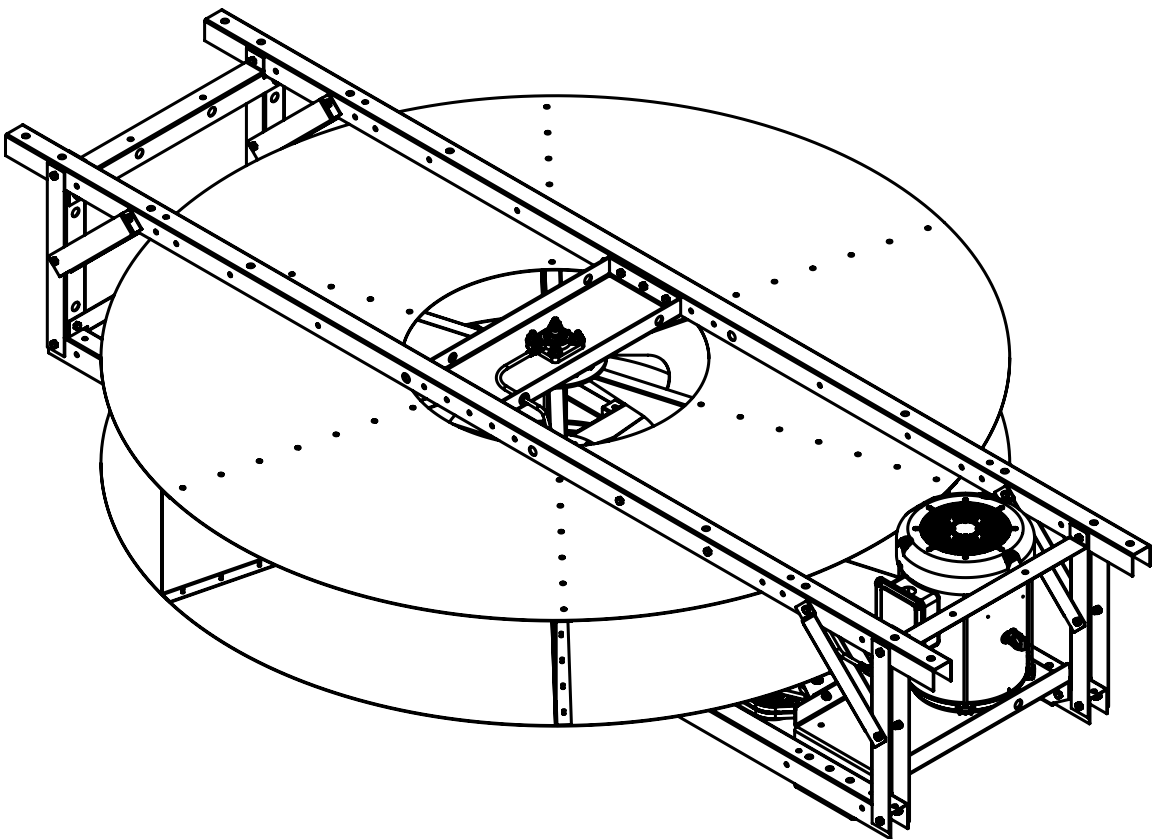
OVERVIEW

THE MOTOR (972151) ON THE HIGH CAPACITY 72" FANS WEIGHS APPROXIMATELY 150 LBS. THIS QUICK SHEET WILL DETAIL HOW TO SAFELY PIVOT THE MOTOR TO A MORE ACCESSIBLE LOCATION IN ORDER TO BE REPLACED WITH A NEW MOTOR.



WARNING!

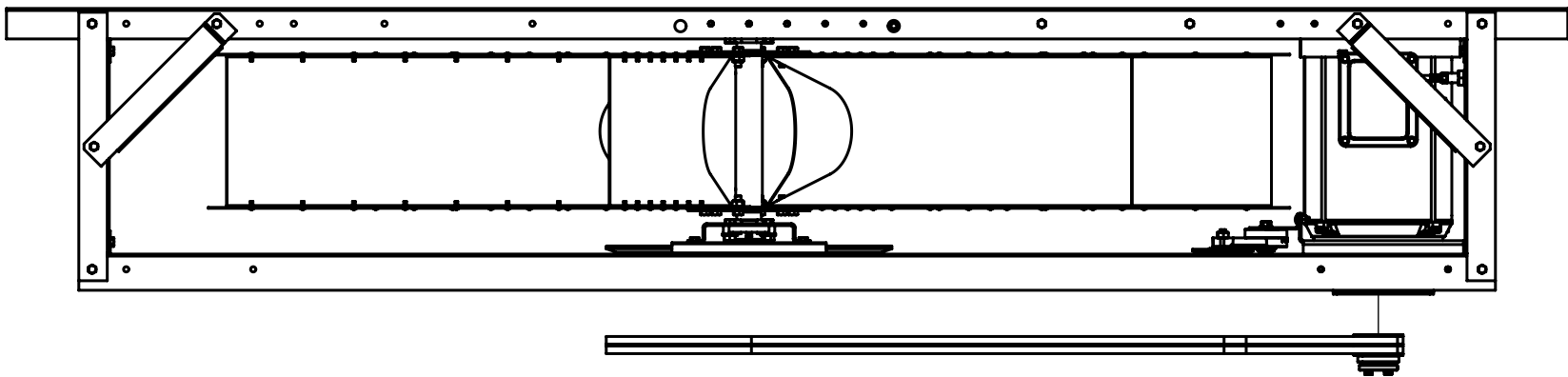
DISCONNECT POWER BEFORE INSTALLING OR SERVICING THIS EQUIPMENT!



STEP 1: DISCONNECT WIRES FROM 972151 (MOTOR).

STEP 2: REMOVE MOTOR PULLEY, MOTOR BUSHING, AND (2) BELTS. SET ASIDE TO BE INSTALLED LATER AS SEEN IN FIGURE 1.

FIGURE 1



RECOMMENDED PARTS	
QTY	DESCRIPTION
2	RACHET STRAPS (5 FT MINIMUM)
1	WINCHING SYSTEM
1	PULLEY
1	EYE BOLT WITH NUT
1	QUICK LINK
2	CABLE CLAMPS

990145	REV.
SHEET 1	-

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



VALCO COMPANIES, INC.

PO BOX 8

NEW HOLLAND, PA 17557

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DATE 10/29/15

DRAWN SAL

CHECK -

WEIGHT NA

SCALE NA

DESCRIPTION 1

MOTOR REPLACEMENT INSTR

DESCRIPTION 2

FOR 72 HC HEMISPHERE FAN

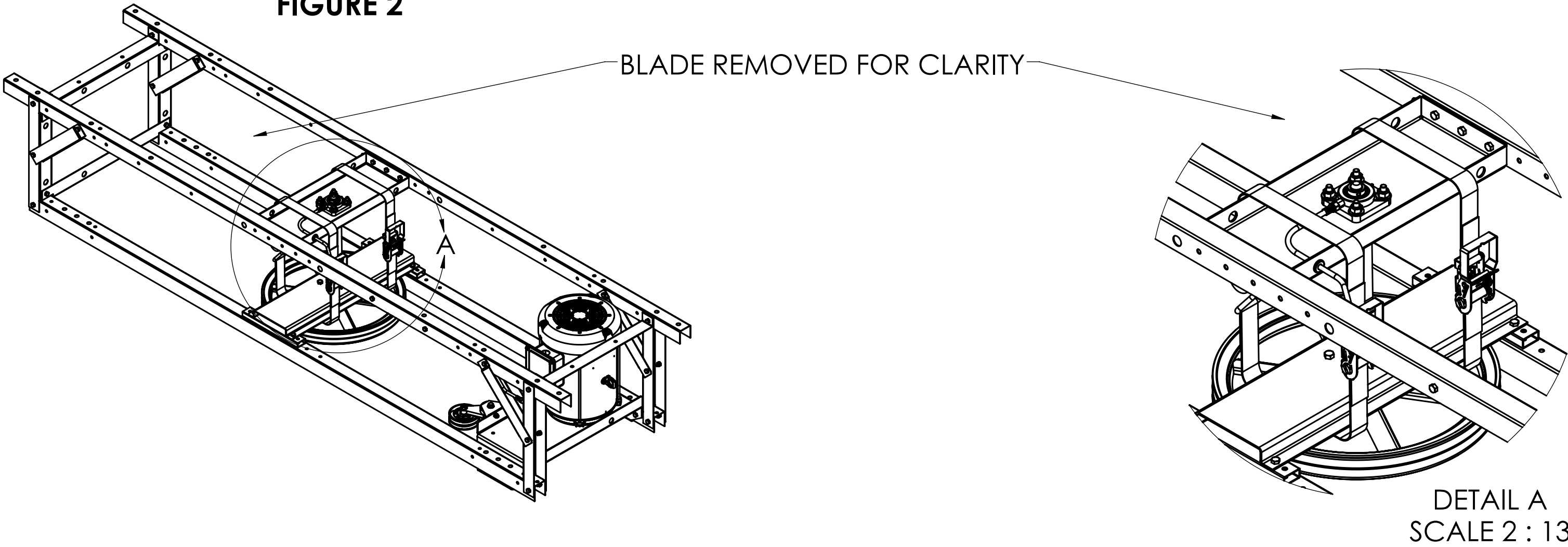
SHEET 1 OF 4

990145

REV. -

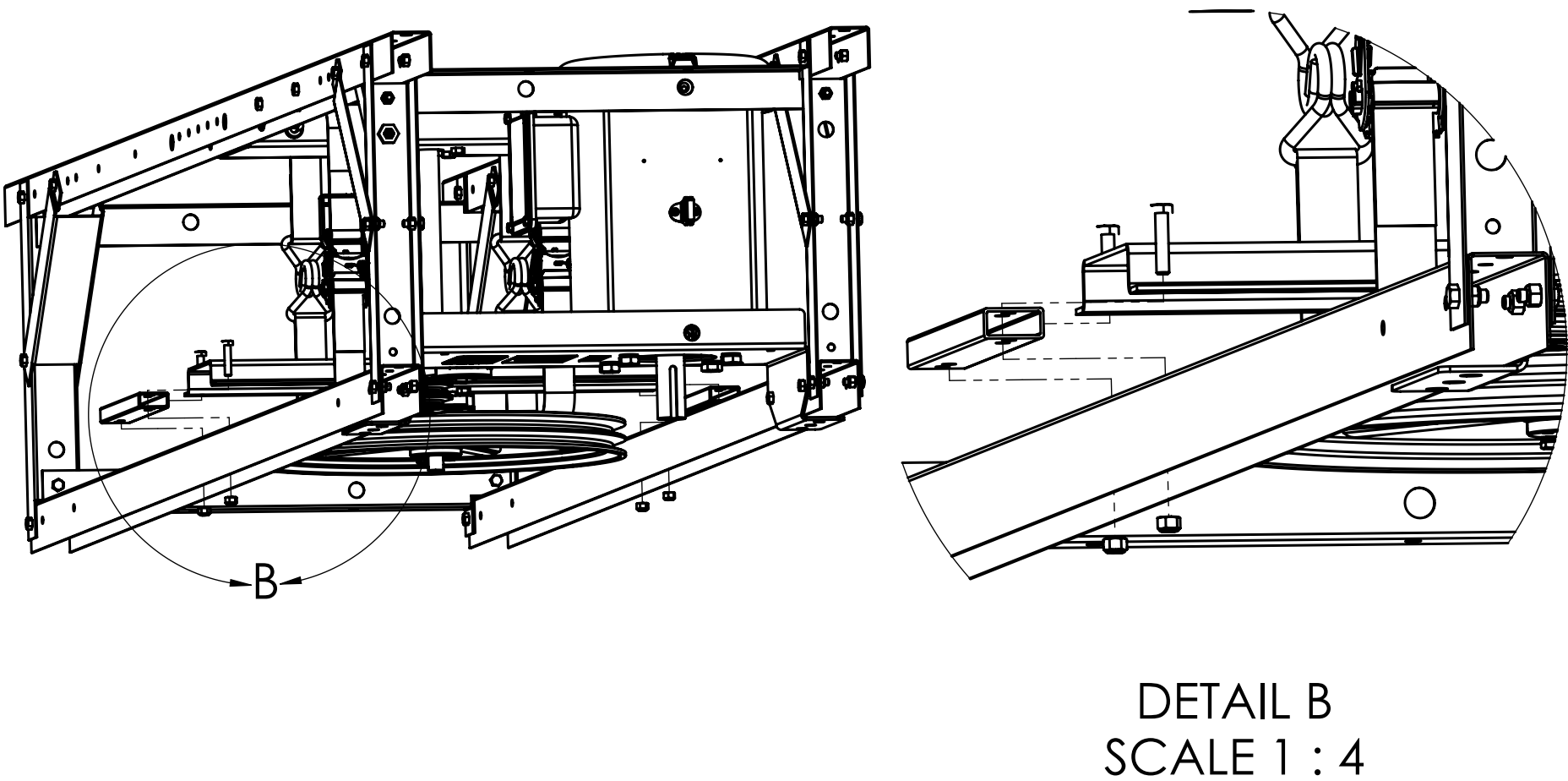
STEP 3: INSTALL (2) RATCHET STRAPS AROUND TOP BEARING PLATE AND THE BOTTOM BEARING PLATE WITHOUT WRAPPING AROUND BLADE PULLEY AS SEEN IN FIGURE 2.

FIGURE 2



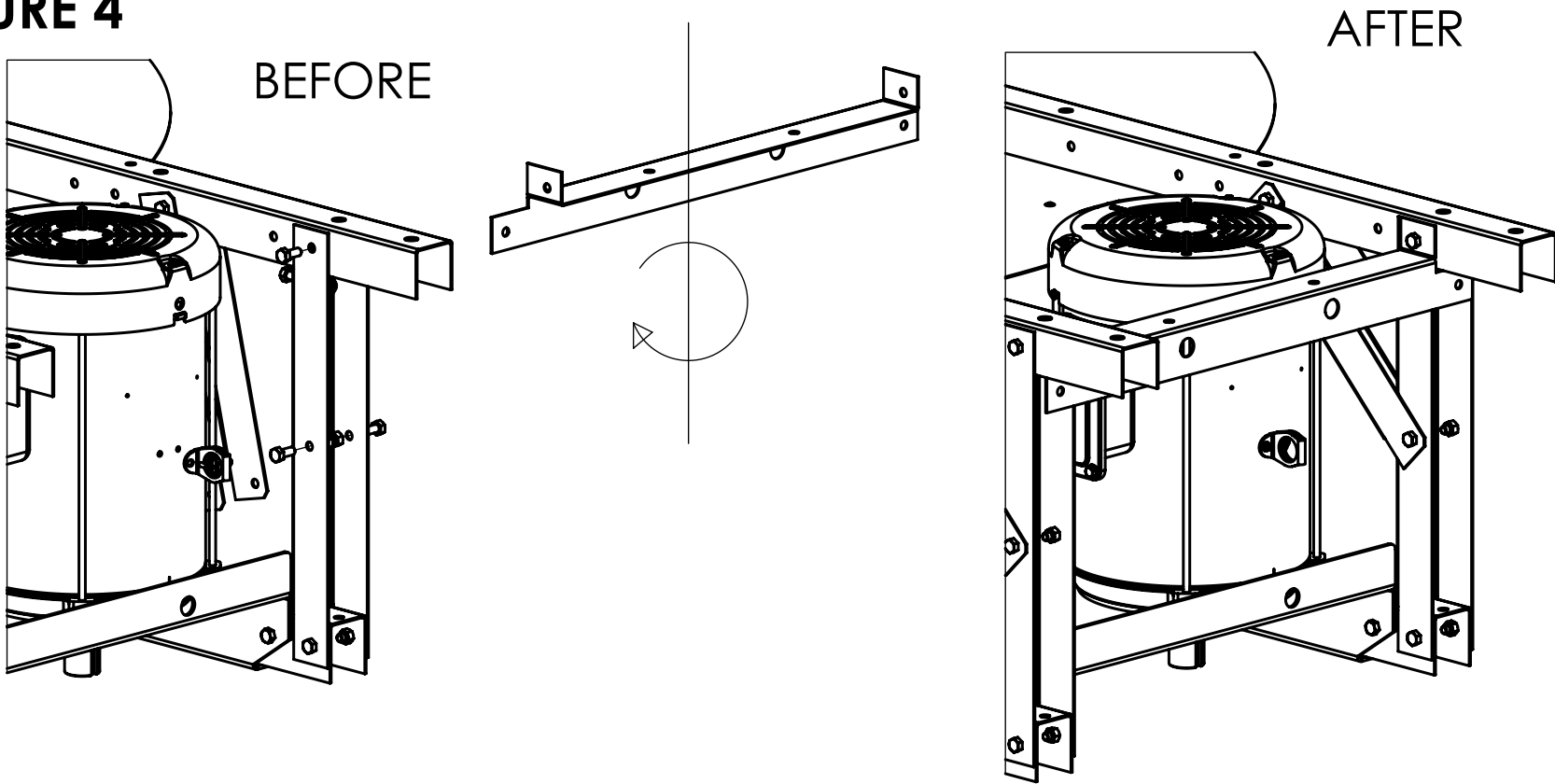
STEP 4: REMOVE (4) BOLTS THAT MOUNT THE BOTTOM BEARING PLATE TO THE BOTTOM RAILS. SET ASIDE THE SQUARE TUBING THAT IS IN BETWEEN THOSE PIECES.

FIGURE 3




STEP 5: TURN HORIZONTAL CROSS BRACE NEAR MOTOR AROUND SO THAT ONLY THE BOLTS IN THE TOP RAILS ARE HOLDING IT IN PLACE. THE MOTOR MOUNTING HOOK WILL HAVE TO BE REMOVED AS WELL AS THE DIAGONAL BRACE TO REMOVE THE CROSS BRACE. SEE FIGURE 4 FOR CLARITY.

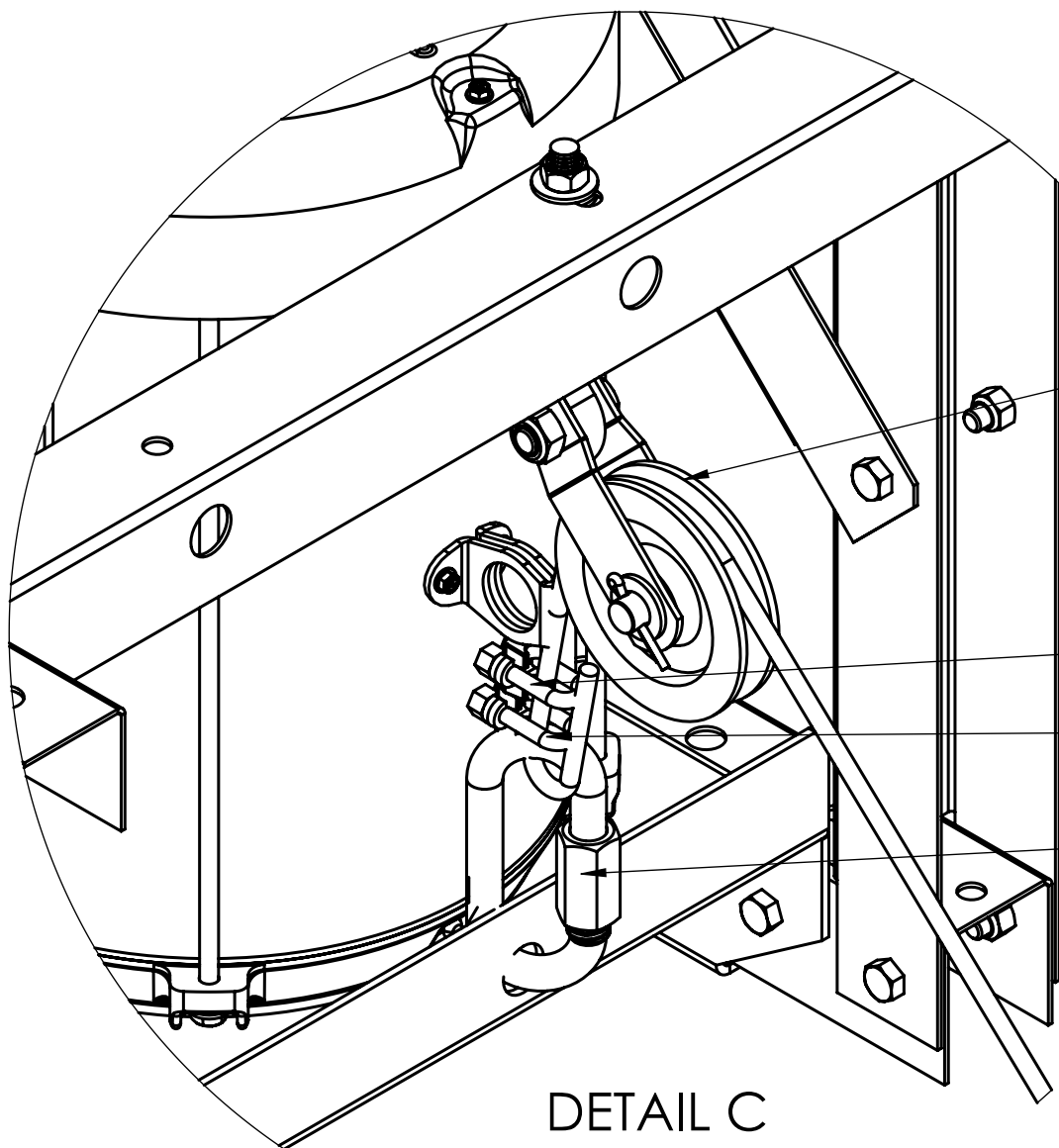
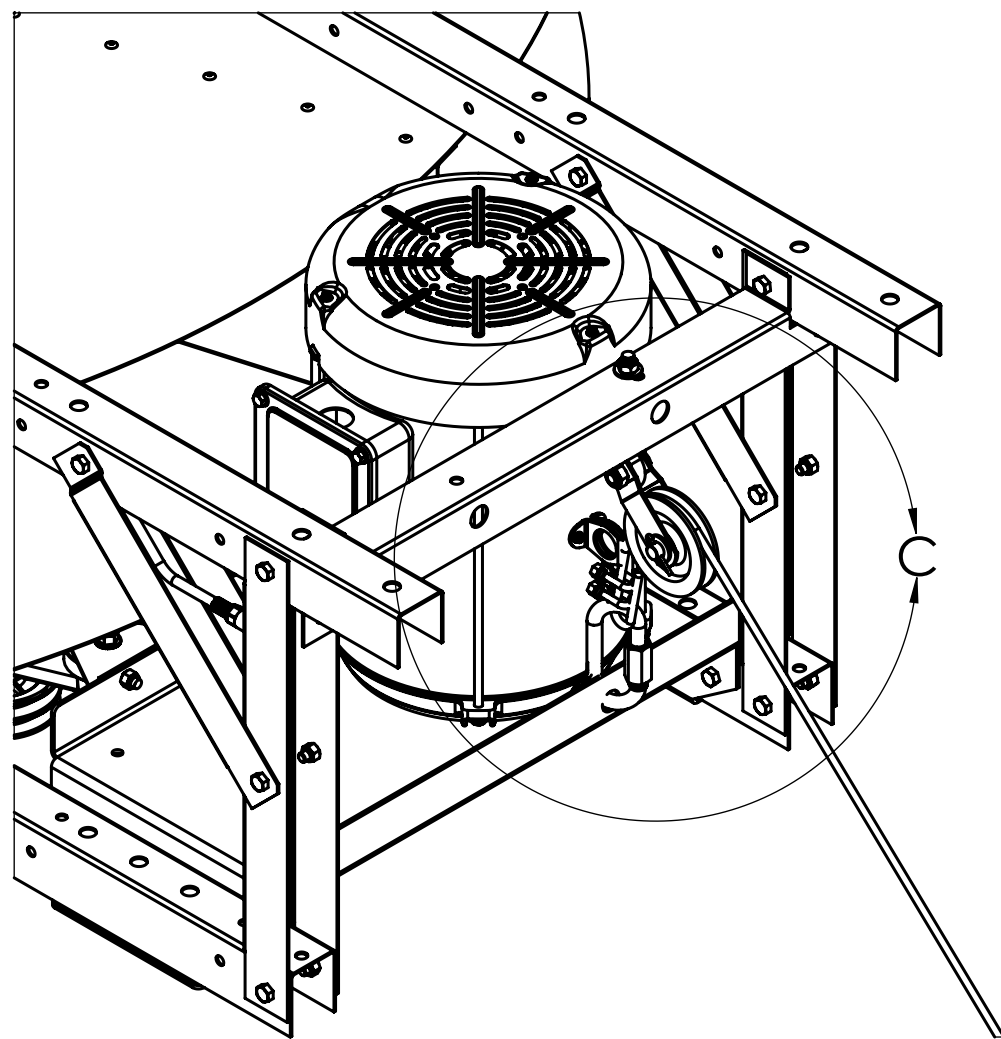
FIGURE 4



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SHEET 2 REV. -

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		 VALCO COMPANIES, INC. PO BOX 8 NEW HOLLAND, PA 17557	
DATE 10/29/15		DRAWN SAL		DESCRIPTION 1 MOTOR REPLACEMENT INSTR	
CHECK -		WEIGHT NA		DESCRIPTION 2 FOR 72 HC HEMISPHERE FAN	
SCALE NA		SHEET 2 OF 4		990145	
				REV. -	

STEP 6: MOUNT PULLEY ATTACHED TO EYE BOLT TO CROSS BRACE ABOVE MOTOR, SHOWN IS VALCO PART # VEN91003. ATTACH WINCHING SYSTEM TO SECURE POINT IN THE HOUSE, RUN THE CABLE FROM THE WINCHING SYSTEM THROUGH THE PULLEY AND ATTACH TO MOTOR MOUNTING PLATE IN THE HOLE THAT HAS ACCESS TO THE GREASE ZERK USING (2) CABLE CLAMPS AND (1) QUICK LINK.



VEN91003 SHOWN

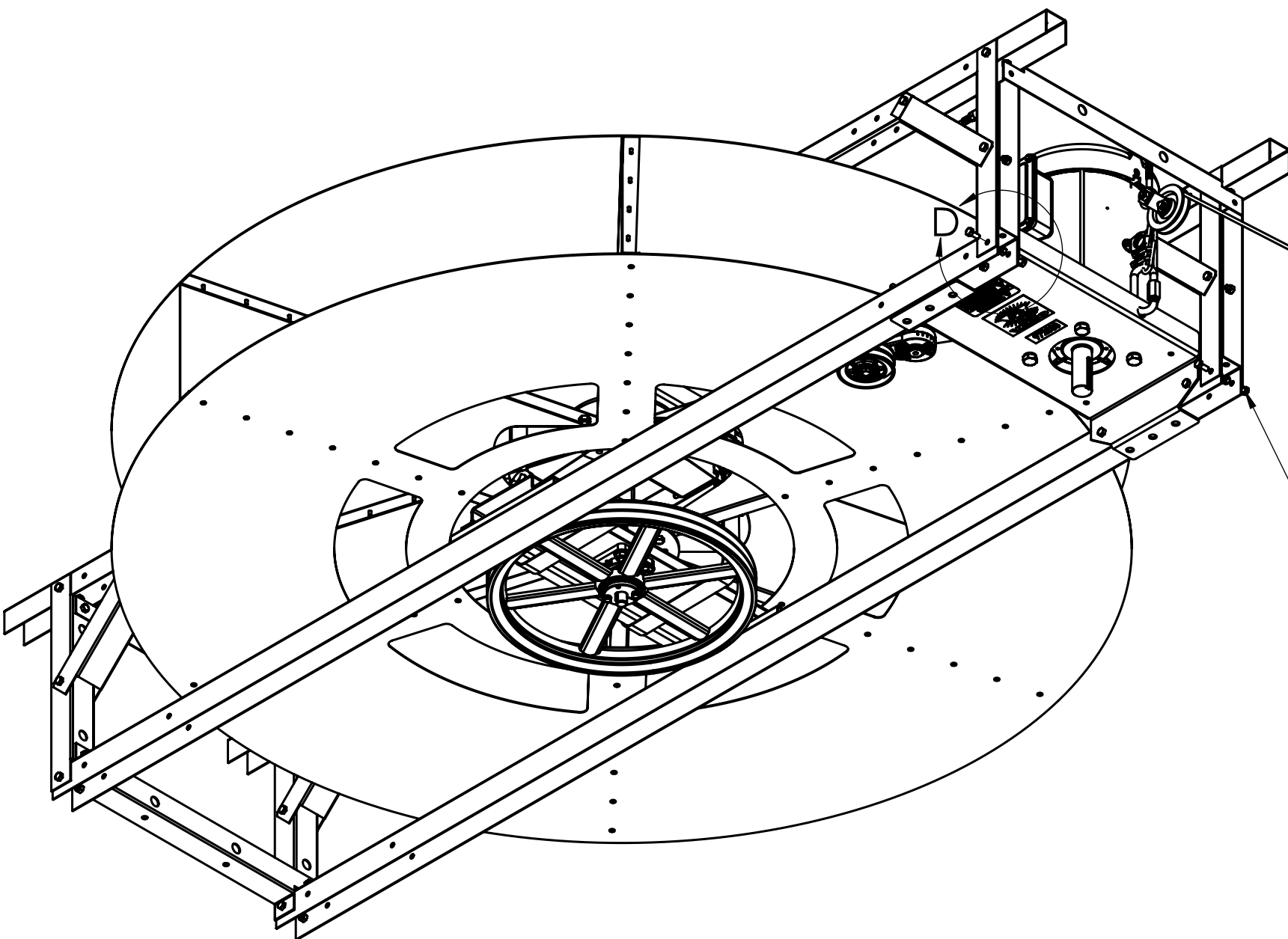
CABLE CLAMP

CABLE CLAMP

QUICK LINK

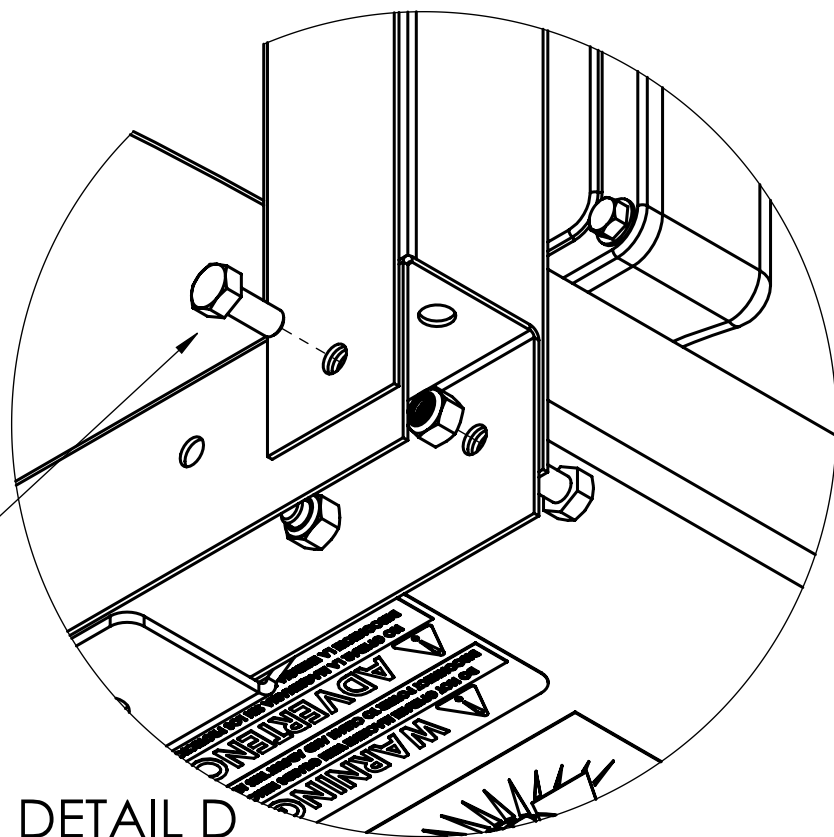
DETAIL C
SCALE 2 : 5

STEP 7: PLACE TENSION IN WINCHING SYSTEM, REMOVE (4) BOLTS THAT CONNECT THE BOTTOM RAILS TO THE VERTICAL RAILS ON THE MOTOR END OF THE FAN.



WINCHING SYSTEM


REMOVE (4) BOLTS



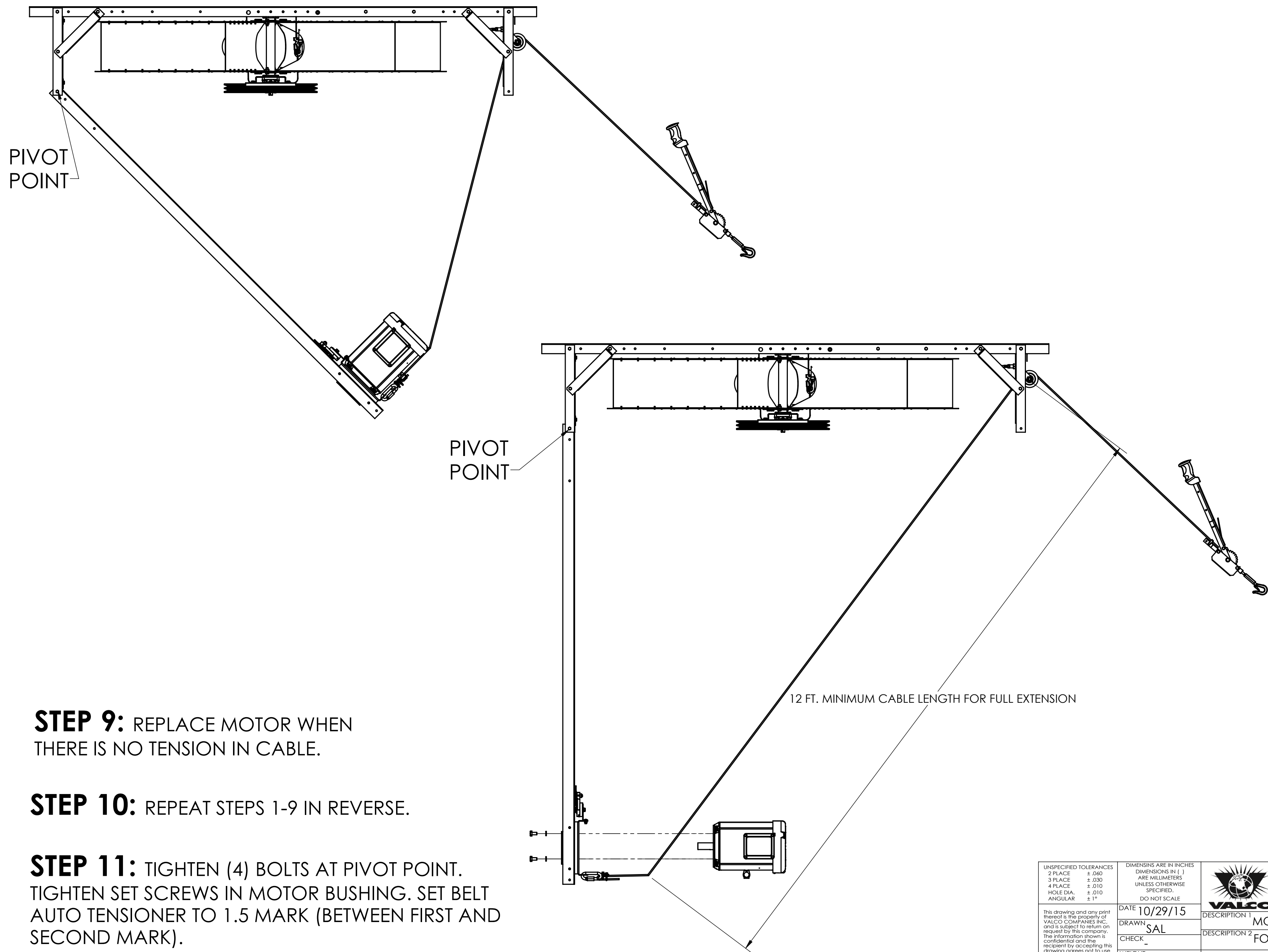
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SHEET 3 REV. -

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		 VALCO COMPANIES, INC. PO BOX 8 NEW HOLLAND, PA 17557	
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CHECK -		WEIGHT NA		DESCRIPTION 2 FOR 72 HC HEMISPHERE FAN	
SCALE NA		SHEET 3 OF 4		990145	
				REV. -	

STEP 8: SLOWLY RELEASE WINCHING SYSTEM UNTIL MOTOR IS EITHER RESTING ON SOLID SURFACE OR UNTIL THERE IS NO TENSION IN THE CABLE.




STEP 9: REPLACE MOTOR WHEN THERE IS NO TENSION IN CABLE.

STEP 10: REPEAT STEPS 1-9 IN REVERSE.

STEP 11: TIGHTEN (4) BOLTS AT PIVOT POINT. TIGHTEN SET SCREWS IN MOTOR BUSHING. SET BELT AUTO TENSIONER TO 1.5 MARK (BETWEEN FIRST AND SECOND MARK).

990145	REV.
SHEET 4	-

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	 VALCO COMPANIES, INC. PO BOX 8 NEW HOLLAND, PA 17557
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	SHEET 4 OF 4	990145