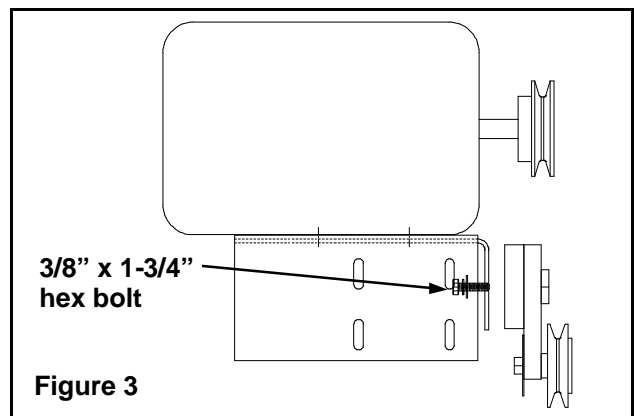
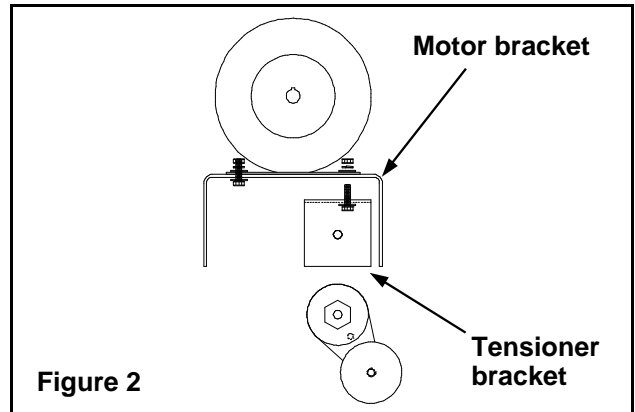
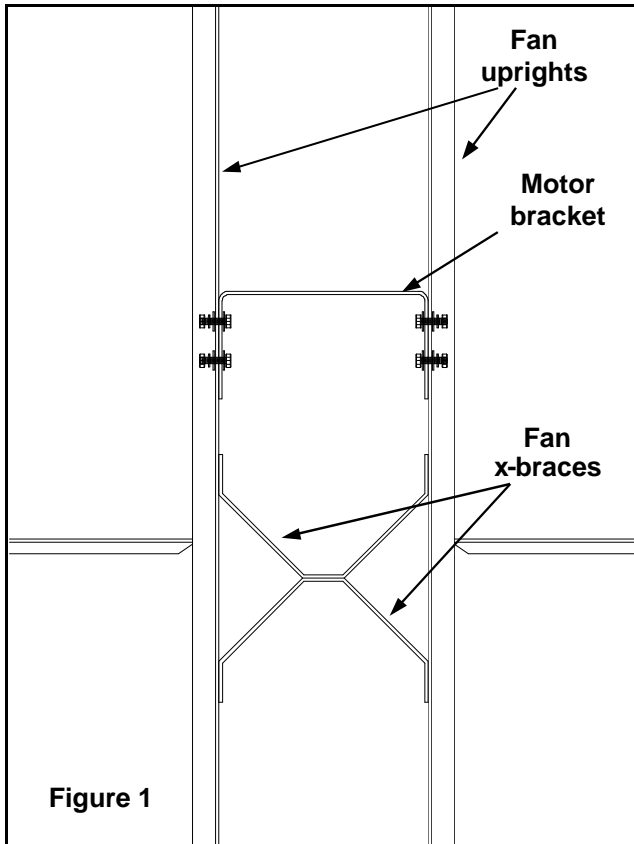




FARM PRODUCTS DIVISION

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MOTOR AND AUTO BELT TENSIONER MOUNTING INSTRUCTIONS

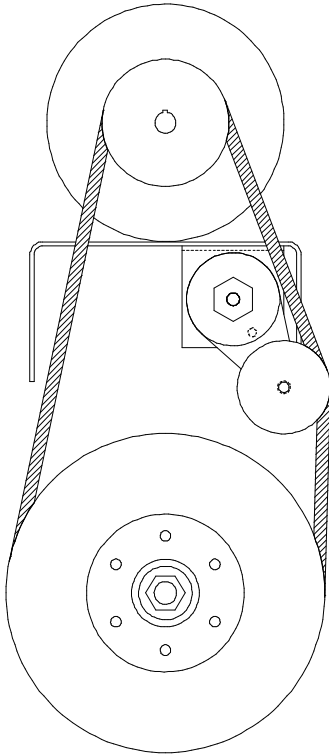


Assembly of Motor and optional Coolair ABT6 auto belt tensioner (Blades removed for clarity of detail)

- 1) Before beginning assembly of the auto belt tensioner (ABT6), verify that all of the components are present. Each ABT6 kit should consist of a belt tensioner and a tensioner bracket. All 5/16" hardware used to assemble the tensioner to the fan is included with the fan. A 3/8" bolt is included with the tensioner for mounting and adjustment.
- 2) When using the ABT6 with a Coolair Type FGBR or FGBC fan, the motor must be located at the top of the fan. See Figure 1. Mount the motor bracket in the fan as shown, and finger tighten the 5/16" hardware. Determine the holes on the motor bracket that match those on the base of the motor. Place the motor on the motor bracket. Place the tensioner bracket under the right-hand (facing the motor shaft) set of these holes. See Figure 2. Using the 5/16" bolts, flat washers, lock washers, and nuts provided with the fan, finger tighten the assembly with the tensioner bracket under the motor and motor bracket.
- 3) Attach the tensioner to the vertical face of the tensioner bracket with the 3/8" hardware supplied with the tensioner, again only finger tight.

BELT ALIGNMENT AND TENSIONING INSTRUCTIONS

Front View



Blades removed for clarity of detail

Figure 4

Motor/Pulley, Tensioner, Disc and Belt

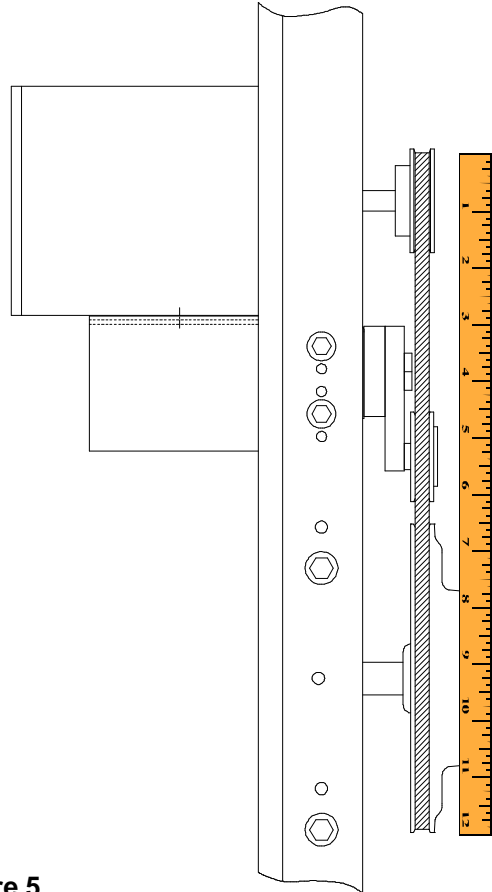


Figure 5

Detailed View of Properly Aligned Fan Sheaves

1) The fan drive assembly must be aligned for proper fan performance. Before wiring and operating the fan, check that the drive pulley, driven disc and belt tensioner are aligned by using a straight edge such as a scale or yard stick. See Figures 4 and 5. If necessary, adjust the position of motor bracket, the tensioner idler pulley and/or the motor pulley so that all three line up. Motor pulley and tensioner bracket will slide in or out to align with the fan disc groove. Tighten down all hardware.

2) Thread the belt over the fan disc, the motor pulley, and then the tensioner idler pulley. With a 15/16" wrench, rotate the tensioner assembly such that the alignment mark is between mark 1 and 2 on the idler arm. See Figure 6. Tighten the 3/8" bolt.

3) Turn the blade assembly by hand to insure free rotation. **Do Not Over Tension The Belt.** This will cause premature belt and bearing failure. To check that the belt tension is not too high, place a finger midway between the fan pulley and motor pulley and push inward about 1/2". The force required to do this *is not* to exceed 5 pounds.

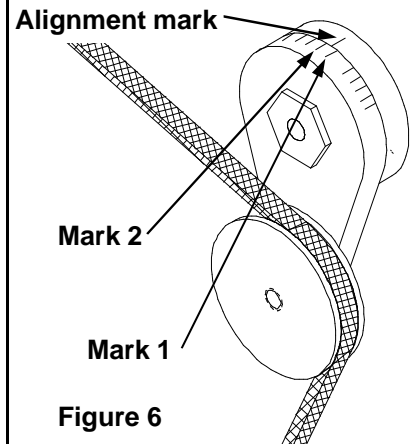


Figure 6