

VFB™ Chain Drive Manual Addendum

Your dehumidifier is equipped with a chain drive. This Addendum covers chain drive tensioning, rotor motor removal, chain removal and rotor removal.

1.0 Chain Drive Tension

1.1 Your equipment has an adjustable fixed chain drive tension bar

1.2 Checking the tension on the chain drive

1.2.1 Check tension of your chain drive per the below schedule

1.2.1.1 (1) week after initial start-up

1.2.1.2 (1) month after initial start-up

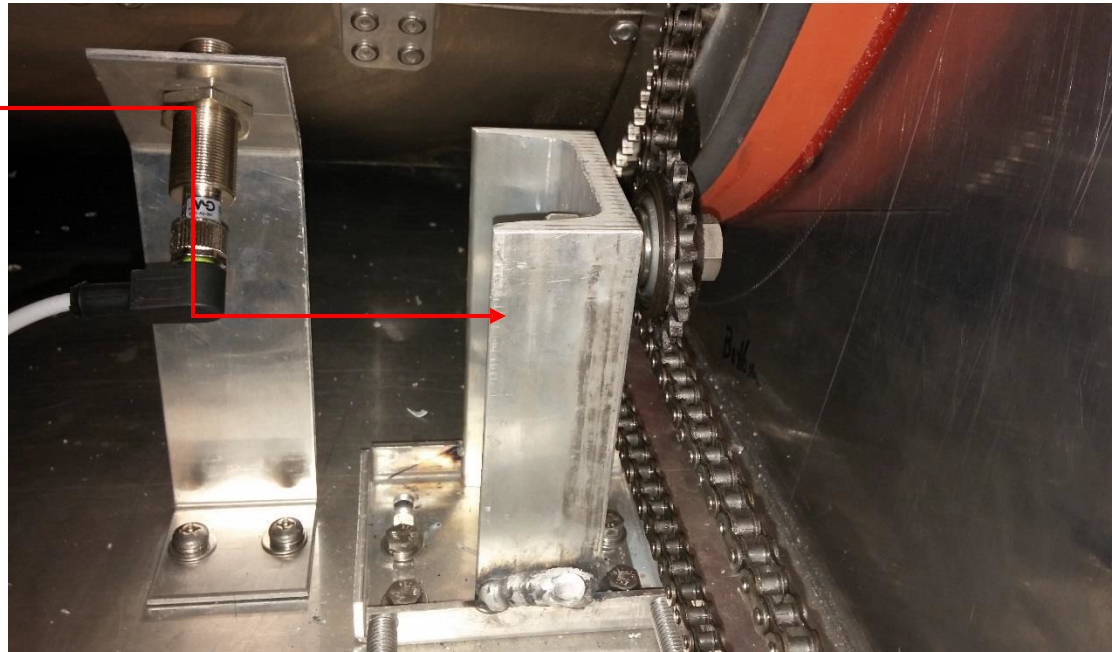
1.2.1.3 (3) months after initial start-up

1.2.1.4 (6) months after start-up and the semi-annually there after

1.2.2 When checking the tension, turn off power and lock-out the unit

1.2.3 Check the tensioner for signs of wear, if signs of wear are noticed consult the factory for a replacement tensioner

Chain Idler
Support
Bracket

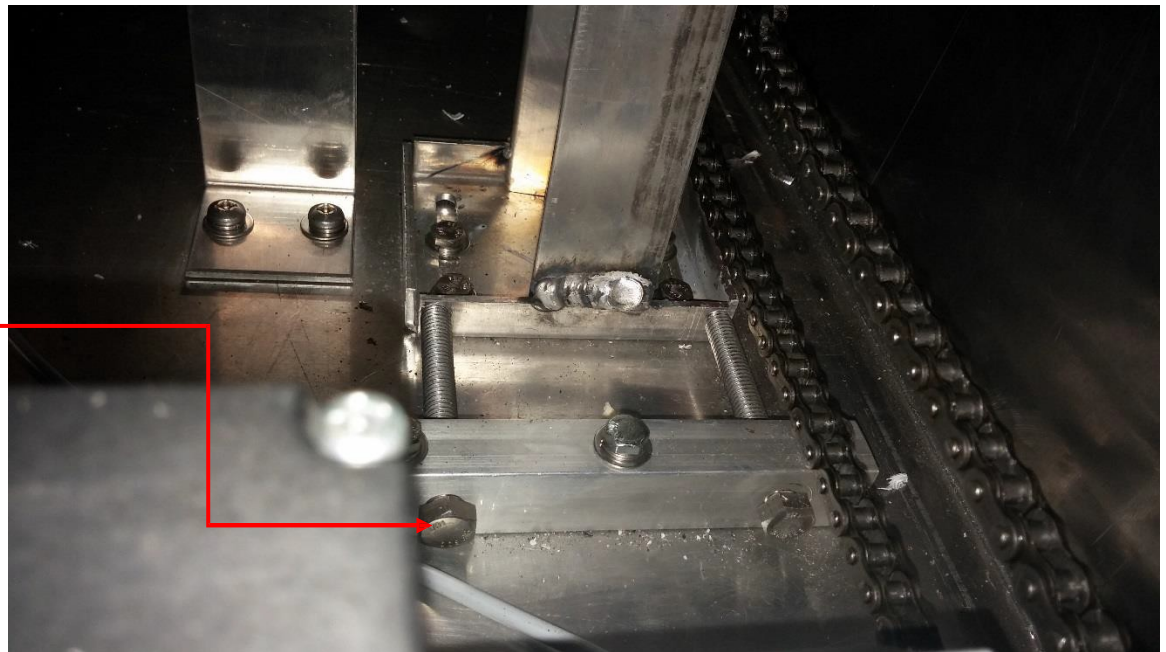


1.2.4 The chain should have no more than 3/16'' deflection, if more deflection is noticed

1.2.5 Loosen the (4) bolts in the bottom of the chain idler support bracket

- 1.2.6 Turn the (2) bolts in the tension bar (clockwise) equally, this will push the chain idler support bracket closer to the rotor adding more tension to the chain

Tension Bar
Bolts
(quantity 2)

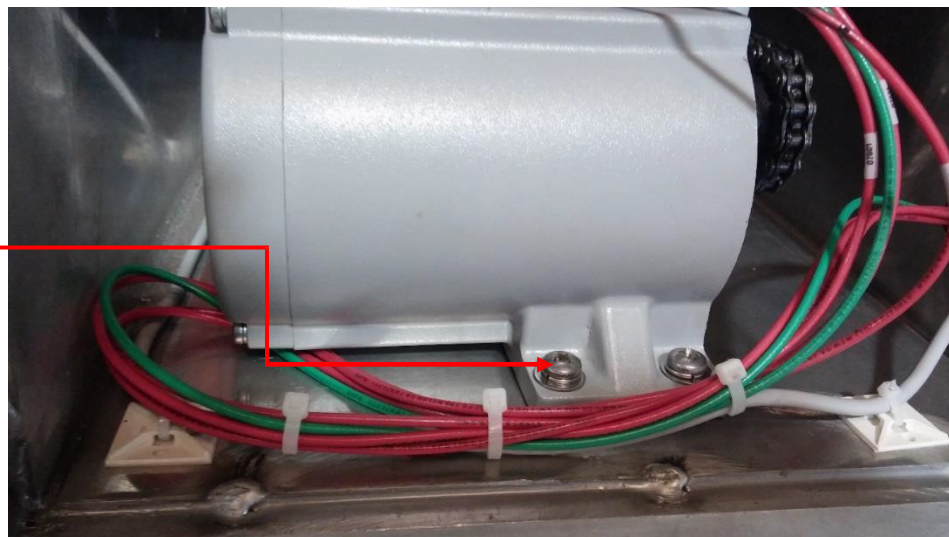


- 1.2.7 Tighten the (4) bolts in the bottom of the chain idler support bracket

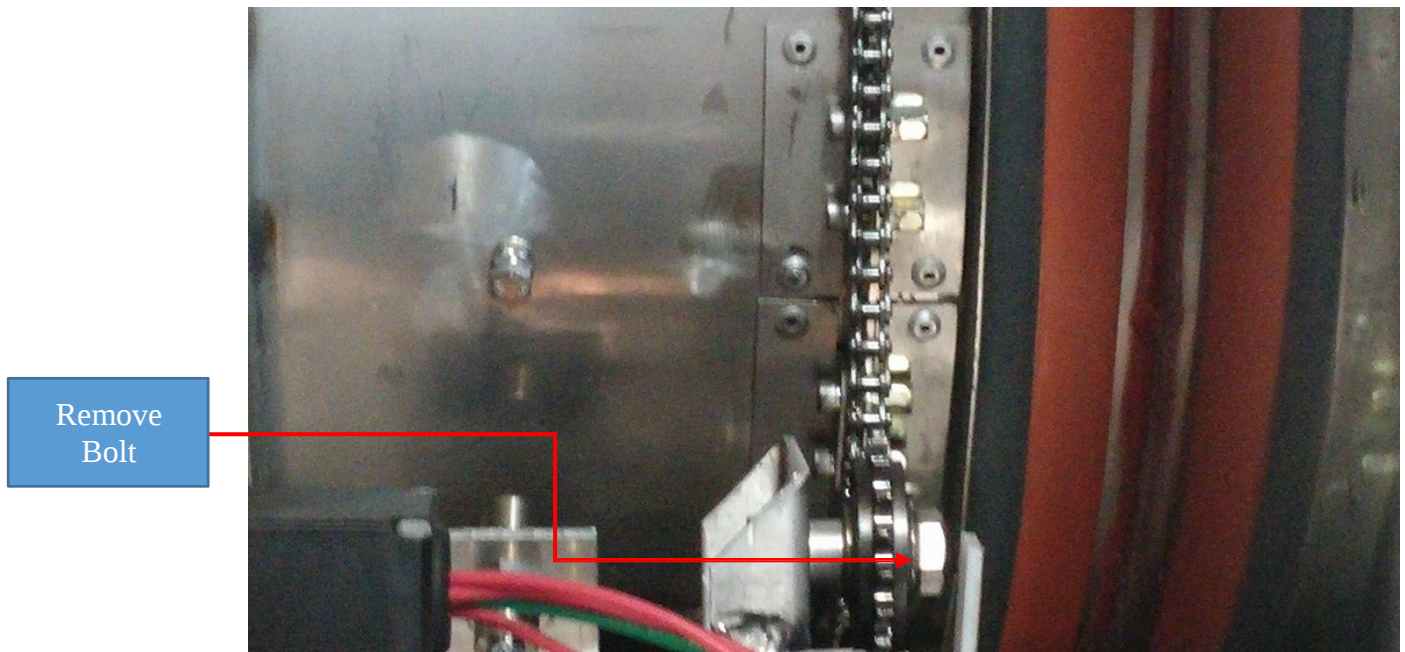
2.0 Rotor Motor Removal

- 2.1 Release tension from the drive chain by following the procedure above for adding tension, but turn the tension bar bolts (counter clockwise)
2.2 Remove the chain from the motor drive sprocket
2.3 Remove the (4) screws in the base of the motor

Remove
Screws



- 2.4 Remove the motor from the unit
- 2.5 Install the new motor and reverse the order of the above instructions
 - 2.5.1 If you did not purchase a new drive sprocket, remove the old sprocket and keyway from the old motor and install on the new motor
- 3.0 Idler Pulley Replacement
 - 3.1 Release tension from the drive chain by following the procedure above for adding tension, but turn the tension bar bolts (counter clockwise)
 - 3.2 Remove the chain from the idler sprocket
 - 3.3 Remove the (1) bolt holding the idler sprocket in place



- 3.4 Remove the idler sprocket from the unit
- 3.5 Install the new idler sprocket and reverse the order of the above instructions

4.0 Desiccant Rotor Removal Instructions

- 4.1 Release tension from the drive chain by following the procedure above for adding tension, but turn the tension bar bolts (counter clockwise)
- 4.2 Remove the chain from the motor drive sprocket and the idler sprocket
- 4.3 Remove the (1) bolt that holds the desiccant rotor shaft, note (1) on each side of the desiccant rotor



- 4.4 Remove both shaft clamps
- 4.5 Lift up on the rotor slightly while moving toward the front of the unit (toward the drive motor) to lift the shaft from the support bars
- 4.6 Once the shaft is in front of the support bars gently lower the rotor until it is below the support bars and then finish lowering until it sits in the bottom of the unit (you will probably need to lower it toward the rear of the unit)

4.7 Once the rotor is lowered, remove the (2) shaft split collars (one on each side of the rotor) and pull the rotor shaft out of the unit



4.8 You can now remove the rotor from the unit out the rear access cover

4.9 To reinstall, reverse the above procedure

- Note if you remove the drive motor, idler support and proximity sensor support the rotor can be removed from the front of the unit if service access on the rear side is minimal