

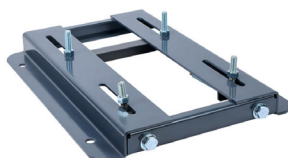
Adjustable Motor Base Installation

Overview

IronHorse adjustable motor bases allow proper belt tensioning and alignment between a motor and its driven unit. Motor bases for frame sizes 56 through 215T have a single bolt for belt tension adjustment. Double-bolt bases use two adjustment bolts for greater flexibility in belt tension adjustment and alignment for motor frame sizes 254T through 447T.

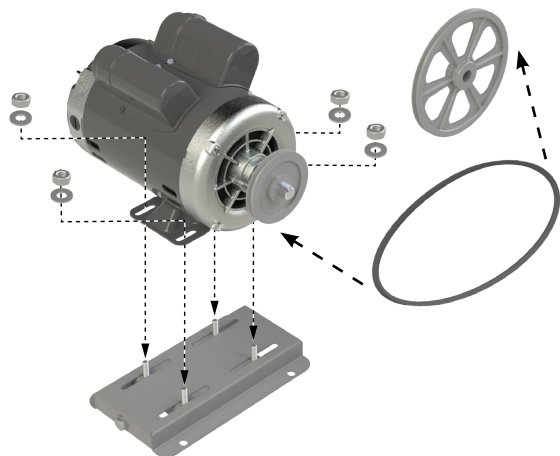


**Single-Bolt
Adjustable Base**



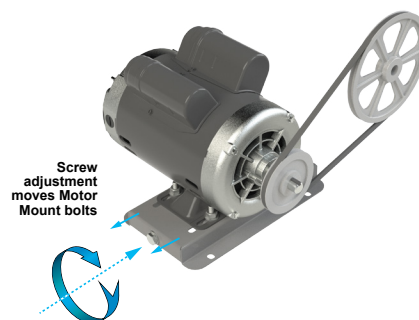
**Double-Bolt
Adjustable Base**

1



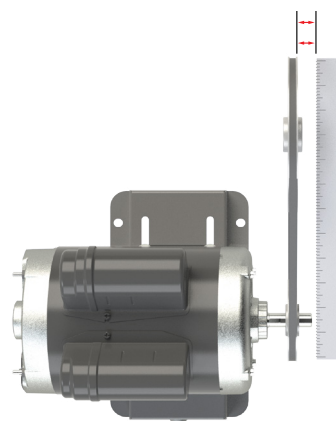
1. Mount the motor to the adjustable base using the supplied hardware. Position the motor close to the driven unit so the belt can be slipped over the pulleys without prying. Finger tighten the mounting nuts on the motor studs to allow the motor to slide during belt tensioning.
2. Place the belt over both pulleys. Do not attempt to force the belt onto the pulley using tools, as this can damage the belt cords.

2



3. Turn the adjusting screw(s) to pull the motor away from the driven unit until the belt reaches the manufacturer's recommended tension.
 - a. For single-bolt bases, use a screwdriver, pry bar, or hoist (sized to the motor) to hold the motor in alignment while tightening the mounting nuts.
 - b. For double-bolt bases, alternate tightening between the two adjusting screws. This maintains pulley alignment as tension is increased.

3



4. Verify pulley alignment using a straightedge or laser alignment tool. Correct as needed before final tightening.
5. Fully tighten the mounting nuts to the recommended torque using hand tools. Re-check belt tension after tightening and adjust if necessary.



CAUTION – MOUNTING NUT LOOSENESS

LOOSEN THE MOUNTING NUTS ONLY ENOUGH TO ALLOW MOTOR MOVEMENT DURING TENSION ADJUSTMENT. EXCESSIVE LOOSENESS ALLOWS THE MOTOR TO PIVOT AND LIFT TOWARD THE DRIVEN PULLEY WHILE THE BELT IS BEING TIGHTENED. RE-TIGHTENING THE MOUNTING NUTS AT THIS POINT WILL RESULT IN EXCESSIVE BELT TENSION, WHICH CAN DAMAGE THE MOTOR AND MOTOR BASE.



CAUTION – TOOL SELECTION

USE ONLY HAND TOOLS FOR ADJUSTMENT AND FINAL TIGHTENING. HIGH TORQUE AND IMPACT LOADING FROM POWER TOOLS CAN DAMAGE THE MOTOR BASE.



CAUTION – BELT INSTALLATION

DO NOT PRY OR ROLL A BELT ONTO A PULLEY. ALWAYS LOOSEN THE ADJUSTING SCREW FULLY AND BRING THE MOTOR CLOSE TO THE DRIVEN UNIT SO THAT THE BELT CAN BE EASILY INSTALLED BY HAND. FORCING A BELT OVER THE PULLEY FACE CAN BREAK INTERNAL CORDS AND SHORTEN BELT LIFE.