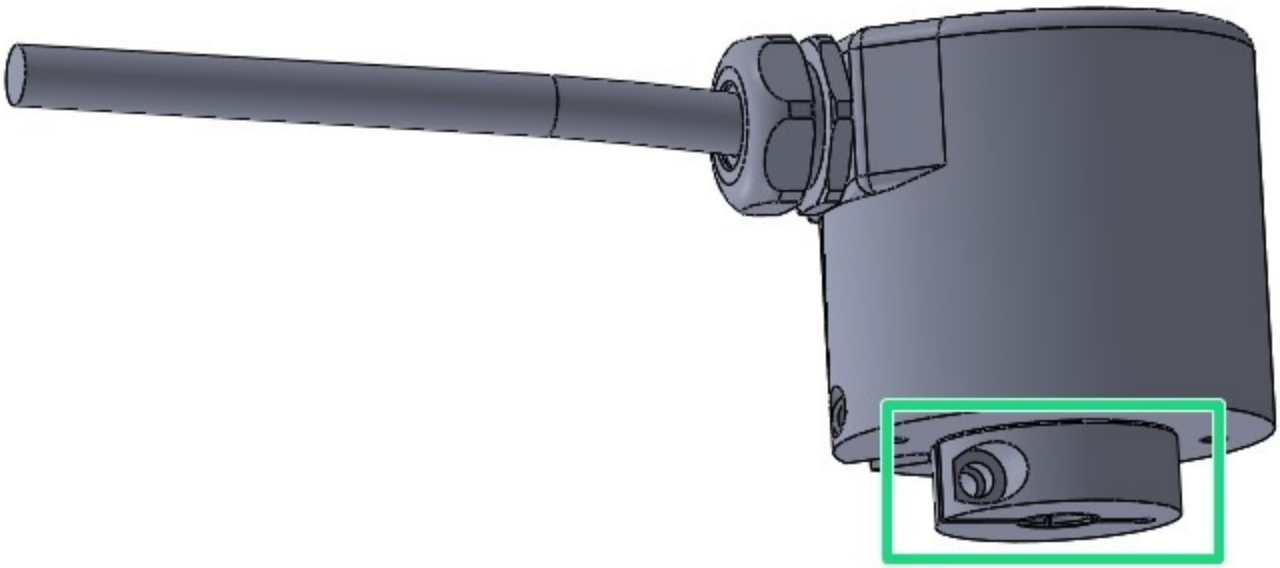
MGM Electric Motor + MGM Encoder Installation

Installing the MGM Electric Motor and MGM Incremental Encoder onto G1 and G2 Doors.

Written By: Trent Borgardt



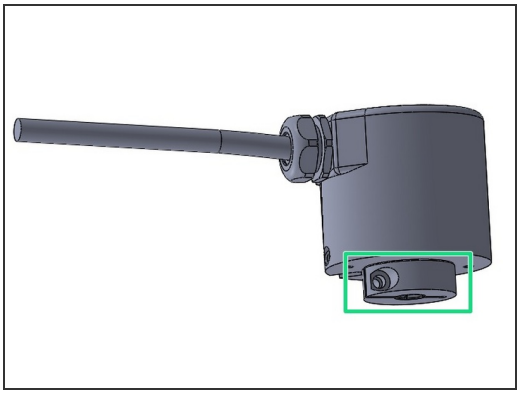
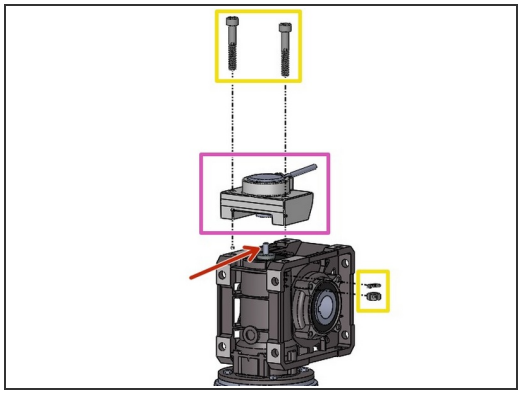
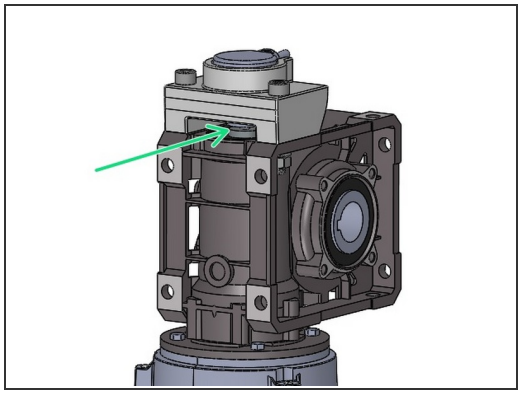
TOOLS:

- 5mm (3/16in) Allen Wrench (1)
- 1/2in Socket (1)
- Ratchet or Impact Driver (1)
- Channellocks (1)

PARTS:

- Motor Mount Anti-Torque Bracket (1)
- M6 x 10mm Socket Cap Screw (4)
- M6 Split-Lock Washers (4)
- 5/16-18 x 1/2in Hex Bolt (1)
- 5/16 Flat Washer (4)
- 5/16 Split Lock Washer (3)
- 5/16-18 Hex Nut (3)

Step 1 — Installing the Encoder on the Motor

- Make Sure the Clamp Collar/Coupler is on the Bottom of the Encoder!

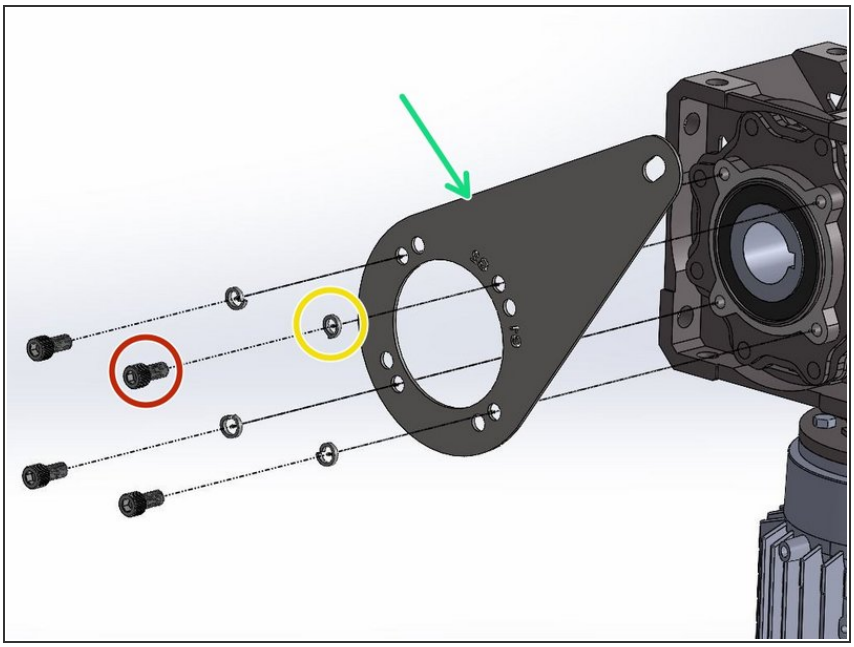
⚠ Note the Small Shaft Protruding from the top of the Motor.

- Install the Encoder Unit into the Mount until it Falls/Locks into place and cannot Rotate within the Mount.
- Install the Encoder and Mount Assembly onto the Motor Housing using the Provided Socket Cap Bolts, Lock Washers, and Hex Nuts.

⚠ Make sure the Coupler on the Bottom of the Encoder, Fits over the Shaft on the Top of the Motor.

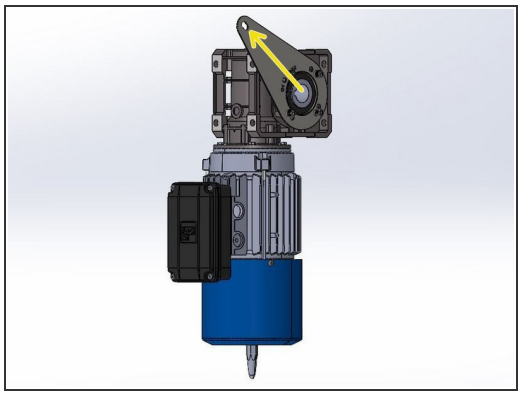
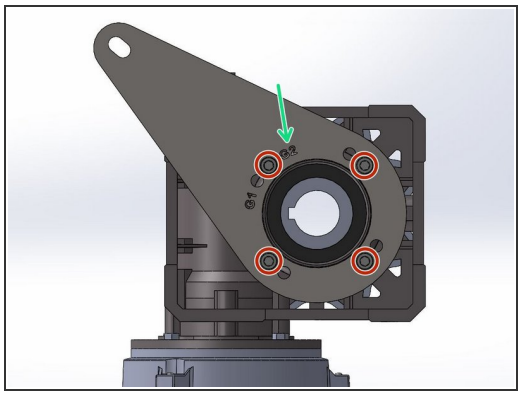
- Tighten The set Screw on the Clamp Collar/Coupler to Positively Secure the Encoder to the Shaft so that they rotate together.

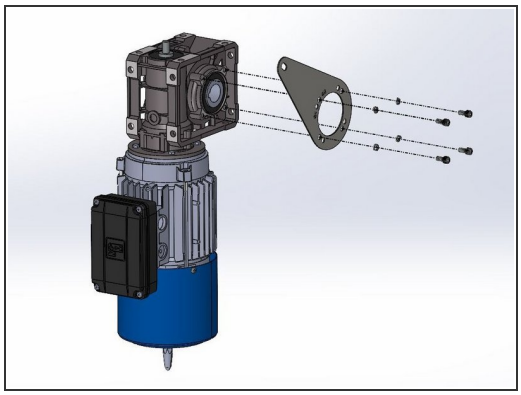
Step 2 — Components for Installing Mount Bracket to Motor



- (4) M6 x 10mm Socket Cap Screws
  - ⓘ Requires 5mm (3/16in) Allen Wrench
- (4) M6 Split-Lock Washers
- (1) Motor Mount Anti-Torque Bracket

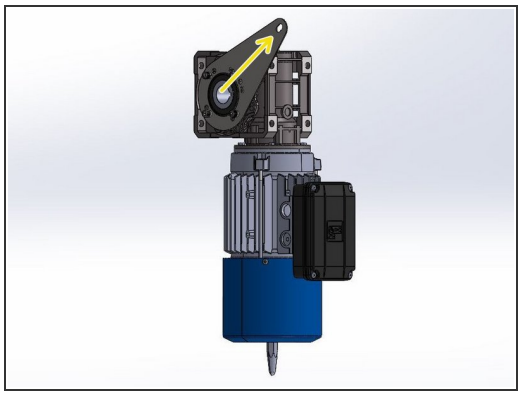
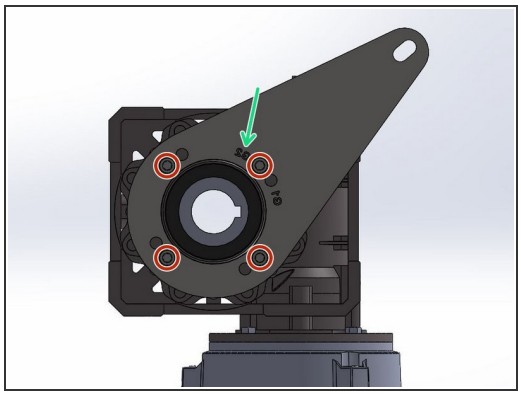
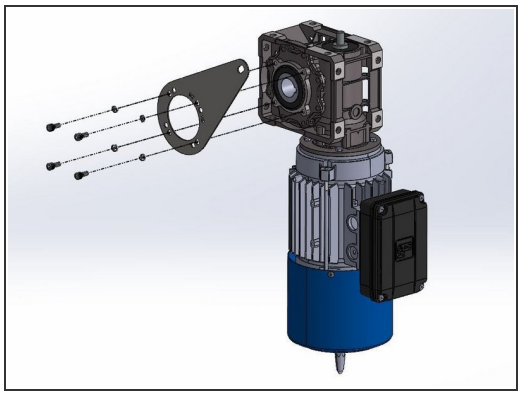
Step 3 — Mounting Bracket onto Motor - LH Drive, G2 Door



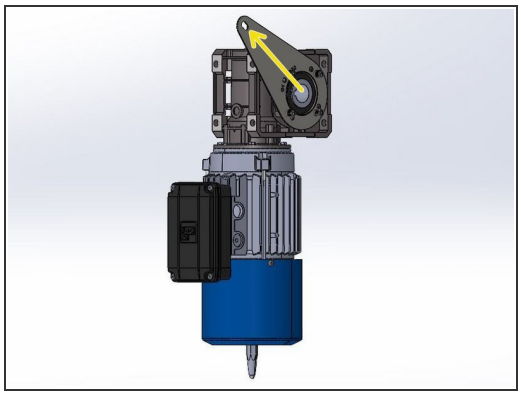
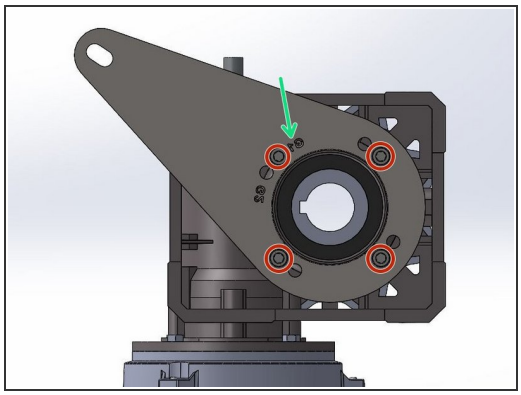
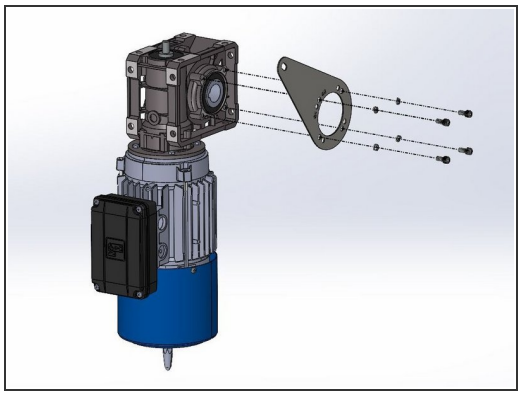
- Note the Orientation of the Bracket in Relation to the Motor.
- ⓘ The Bracket has 2 Hole-Patterns Corresponding to G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 Door, Use the G2 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- On a LH Drive, G2 Door, the Letters will Read Normally/Forward when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

Step 4 — Mounting Bracket onto Motor - RH Drive, G2 Door

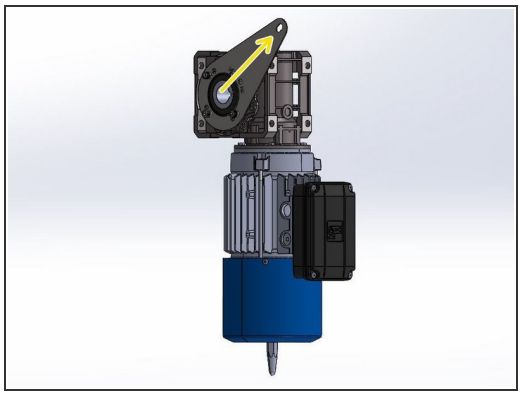
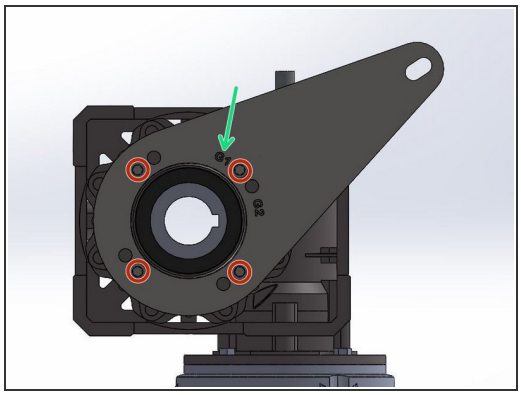
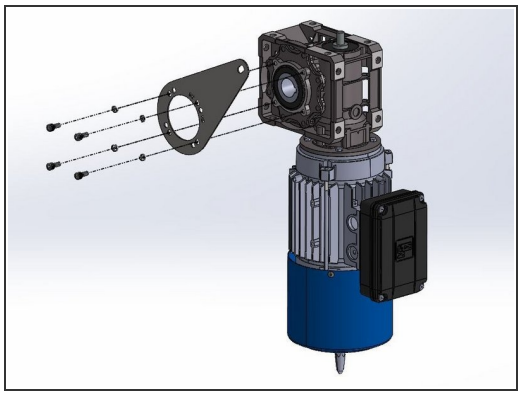
- Note the Orientation of the Bracket in Relation to the Motor.
- ⓘ The Bracket has 2 Hole-Patterns Corresponding to G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 Door, Use the G2 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- On a RH Drive, G2 Door, the Letters will Read Backwards when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

Step 5 — Mounting Bracket onto Motor - LH Drive, G1 Door

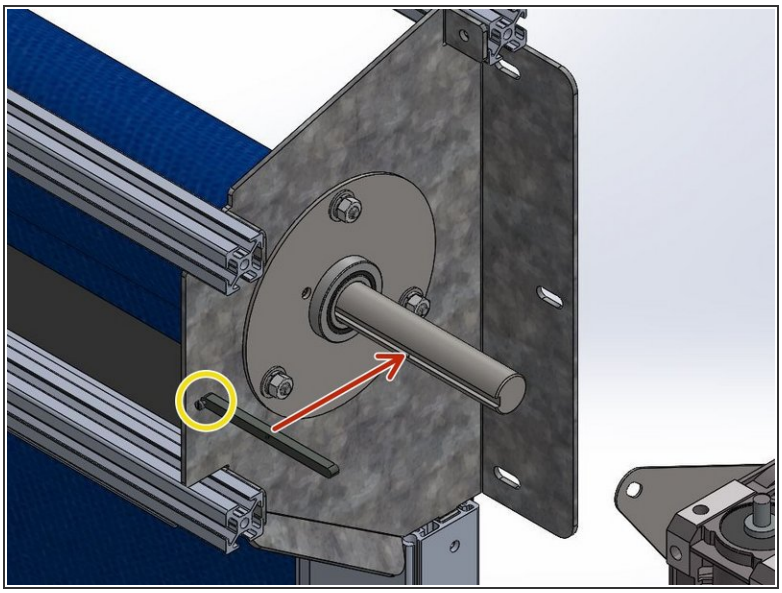
- Note the Orientation of the Bracket in Relation to the Motor.
- ⓘ The Bracket has 2 Hole-Patterns Corresponding the G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G1 Door, Use the G1 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- On a LH Drive G1 Door, the Letters will Read Backwards when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

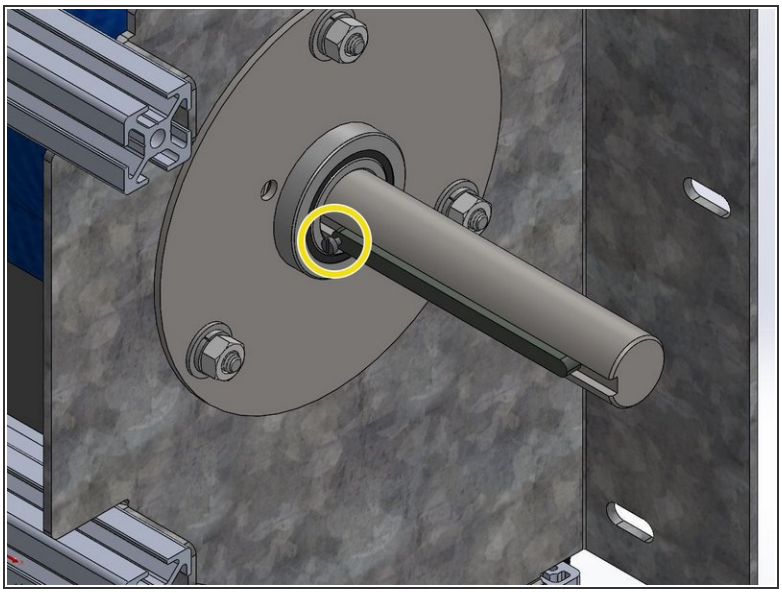
Step 6 — Mounting Bracket onto Motor - RH Drive, G1 Door

- Note the Orientation of the Bracket in Relation to the Motor.
- ⓘ The Bracket has 2 Hole-Patterns Corresponding the G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G1 Door, Use the G1 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- On a RH Drive G1 Door, the Letters will Read Normally/Forward when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

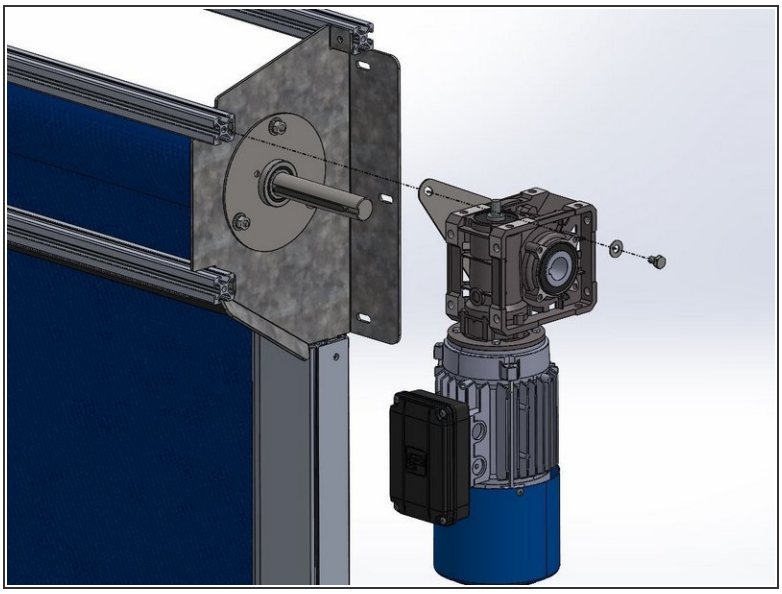
Step 7 — Installing the Machine Key

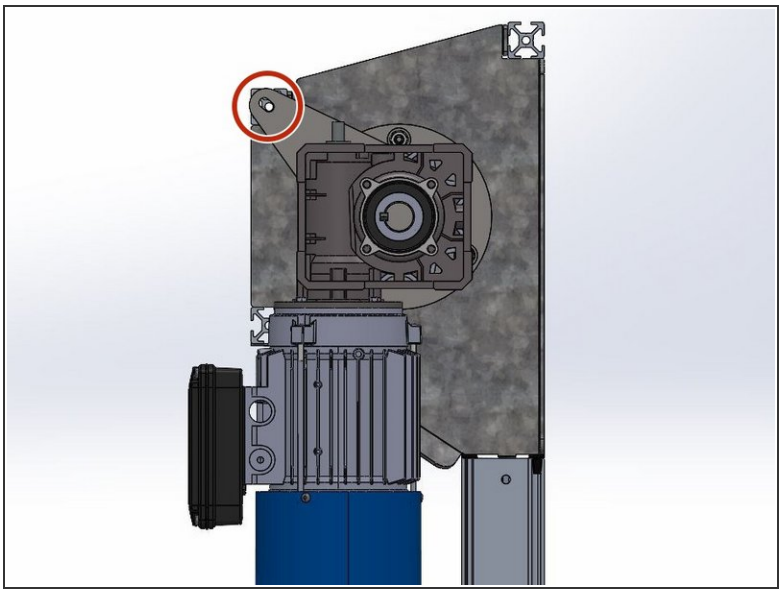




- **Install the Machine Key onto the Drive Shaft with the Set Screw Oriented Towards the Header (Between Motor and Door).**

Step 8 — Installing the Motor on the Shaft





- Slide the Motor onto the Shaft and Key.
- Tilt the Motor to Align the Hole in the Motor Mount Bracket with the Hole on the end of the Upper, Front Rail.
- This should result in the Motor being oriented Vertically and Plumb (See Image 2).

⚠ Place the 5/16 Flat Washer onto the 5/16-18 x 1/2in Hex Bolt and Fasten the Motor to the Door with a Ratchet or Impact Driver.