Cam roller Assembly Replacement

Tools Required:

(2) 12” clamps 

3/8” 12 point wrench or socket

7/16” wrench or socket

5/32” hex wrench

0.040” 12” long feeler gauge

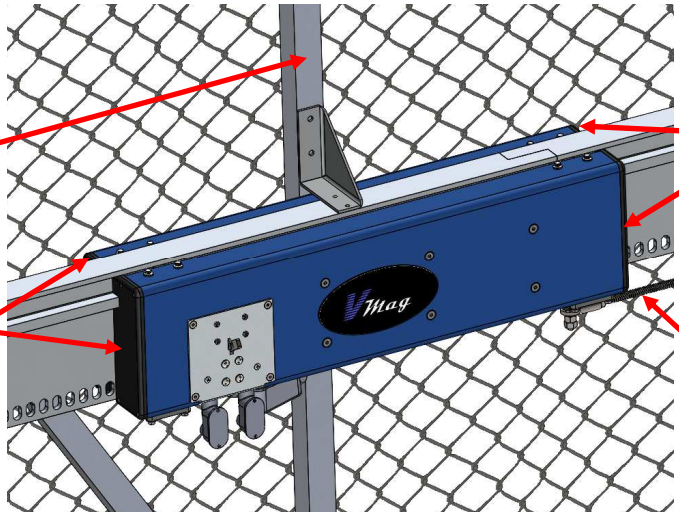
Two saw horses or the truck tail gate recommended.

Avoid setting motors on the ground.

Step 1 **TURN OFF ALL POWER TO OPERATOR**

Manually position gate so one of the vertical members is behind the motor assembly.

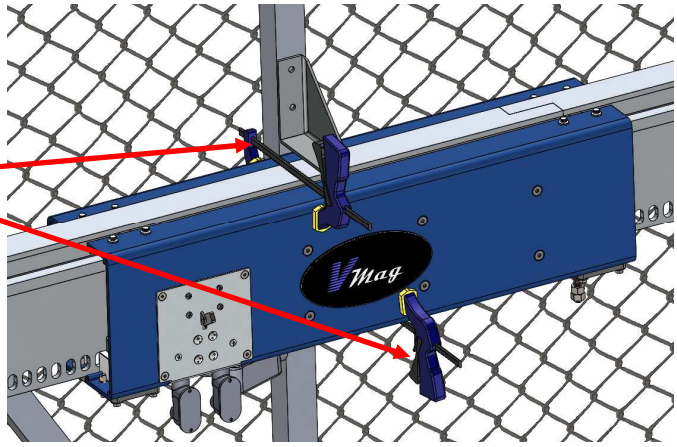
Remove all four end caps.



Removing the linkage arm is optional.

Step 2

Clamp the motors together at top and bottom.

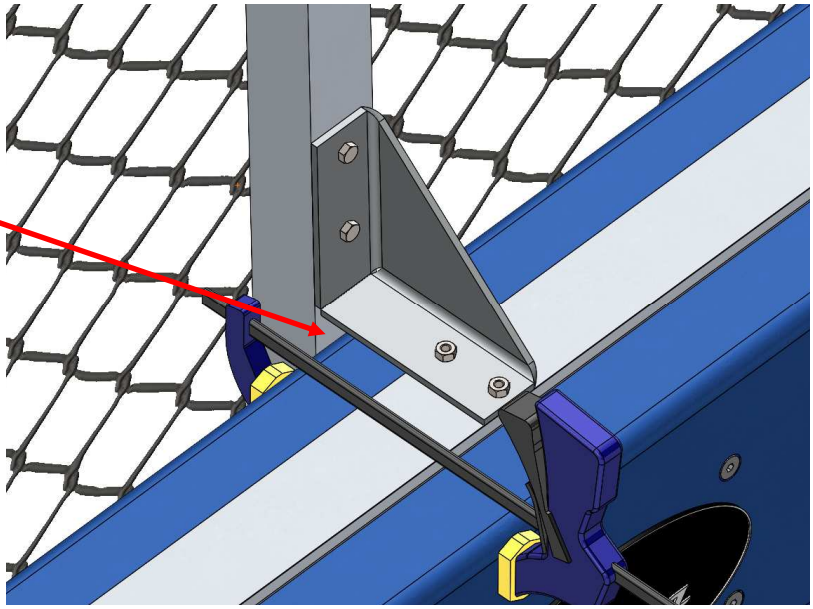


Step 3

Remove all 16 of the 1/4” hex bolts holding the motor brackets on.

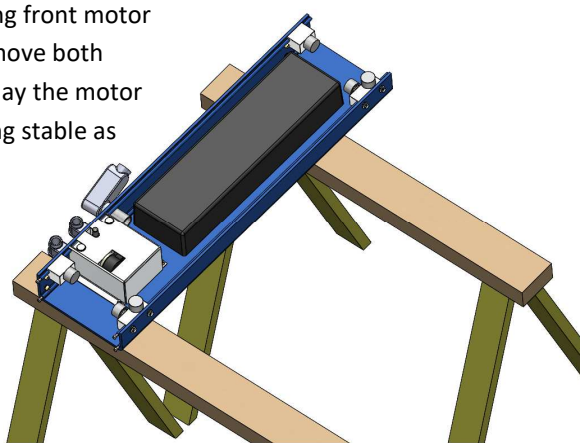
Step 4

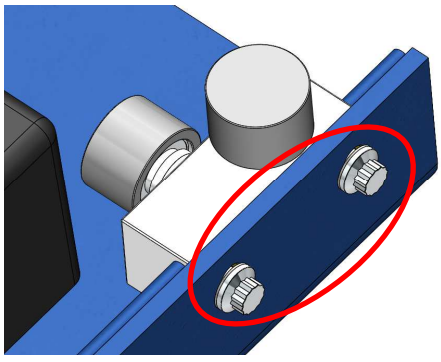
Using cardboard or a piece of wood, wedge the back of the motor to the vertical gate member



Step 5

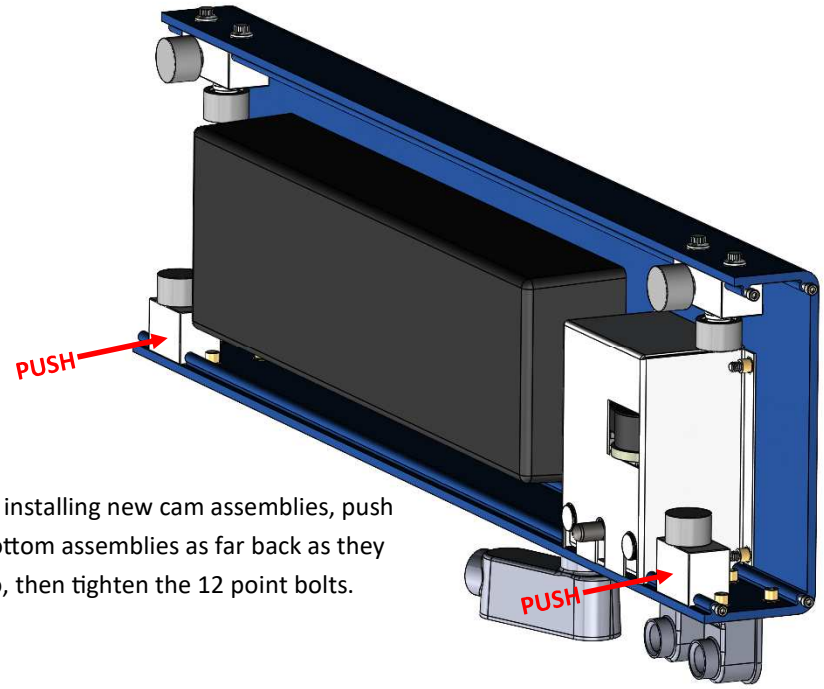
While holding front motor in place, remove both clamps and lay the motor on something stable as shown.





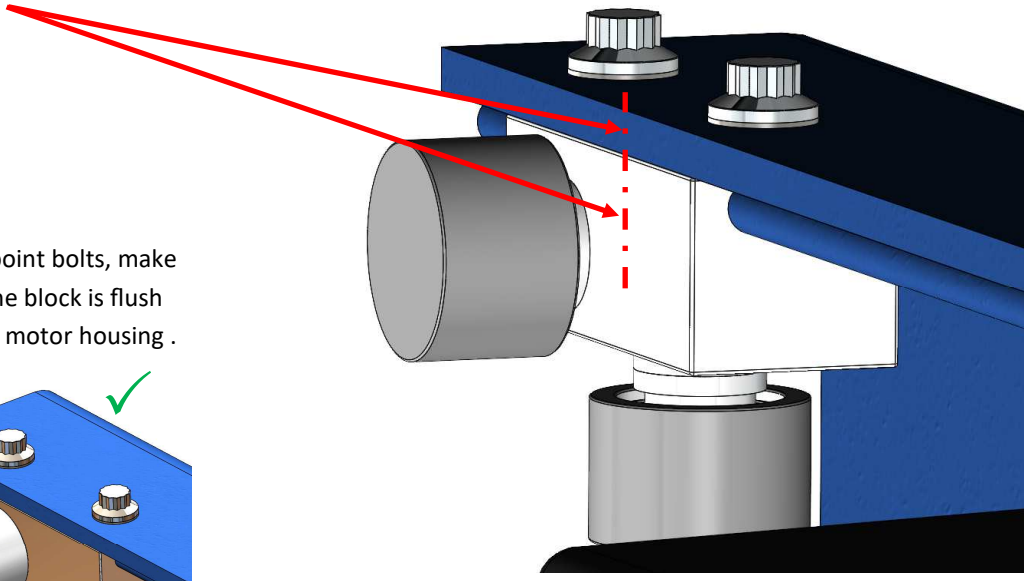
Remove the 12 point bolts, to remove the cam assembly.

Step 6

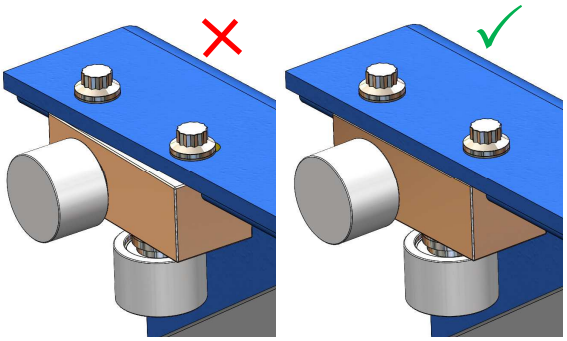


When installing new cam assemblies, push the bottom assemblies as far back as they will go, then tighten the 12 point bolts.

The top cam blocks should be flush with the top edge of the motor housing.



After tightening the 12 point bolts, make sure the entire face of the block is flush with the top edge of the motor housing .



Re-install both motor assemblies.

The bottom cam rollers should be making contact with the reaction fin face and be able to rotate with fingers with some resistance.

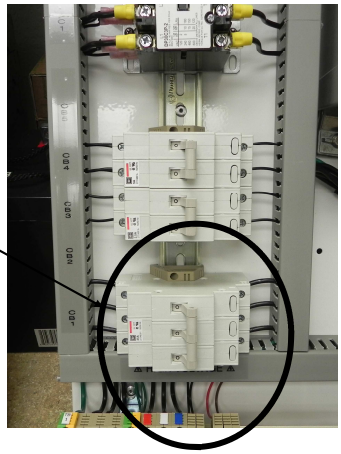
Re-adjust the proximity sensor gap on both sensors *(see next page for procedure)*.

Turn power on to the operator and check that the PROX JITTER is between 498 and 502 during the high speed travel in both directions.

Sensor Adjustment

The two proximity sensors are set at the factory to 0.045” from the reaction fin but should be rechecked once motor are installed.

Adjustment procedure:



Turn off CB1 power to the operator.

Manually move gate halfway open.

Lift caps off of adjustment screws.

Insert 0.040” feeler gauge* between sensor A and the reaction fin.

Rotate clockwise to increase sensor gap.

Rotate counter clockwise to reduce sensor gap.

Set the A proximity sensor at 0.040”

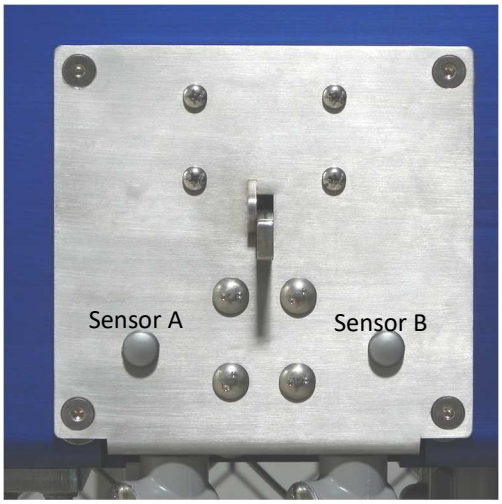
Then turn the adjustment screw 1/4 turn clockwise.

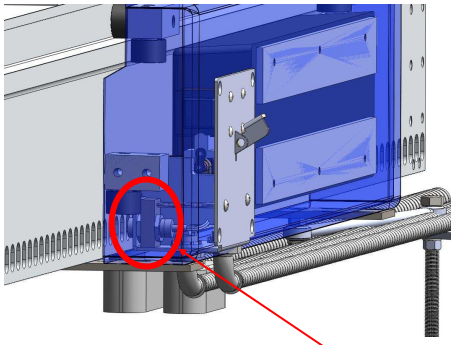
Repeat for sensor B

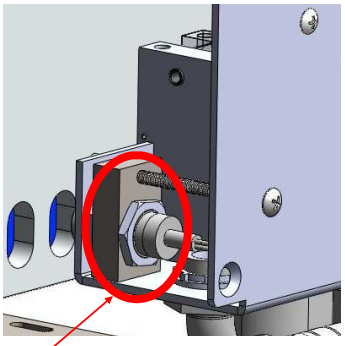
Replace caps, restore power and test.

On the third cycle check the PROX JITTER on the programmer. The value should be 500 $^{+}/_{-}$ 2

Longer gates may require checking the sensor gap at two to three different points along the gate travel. These adjustments may have to be averaged throughout the length of travel.







Sensor A

Reaction Fin