

Vmag Installation Considerations

Correct installation of the Vmag is required for proper operation. A certified Vmag installer will be able to review any existing or new installation plans to determine Vmag compatibility.

Determining Number of Reaction Fins

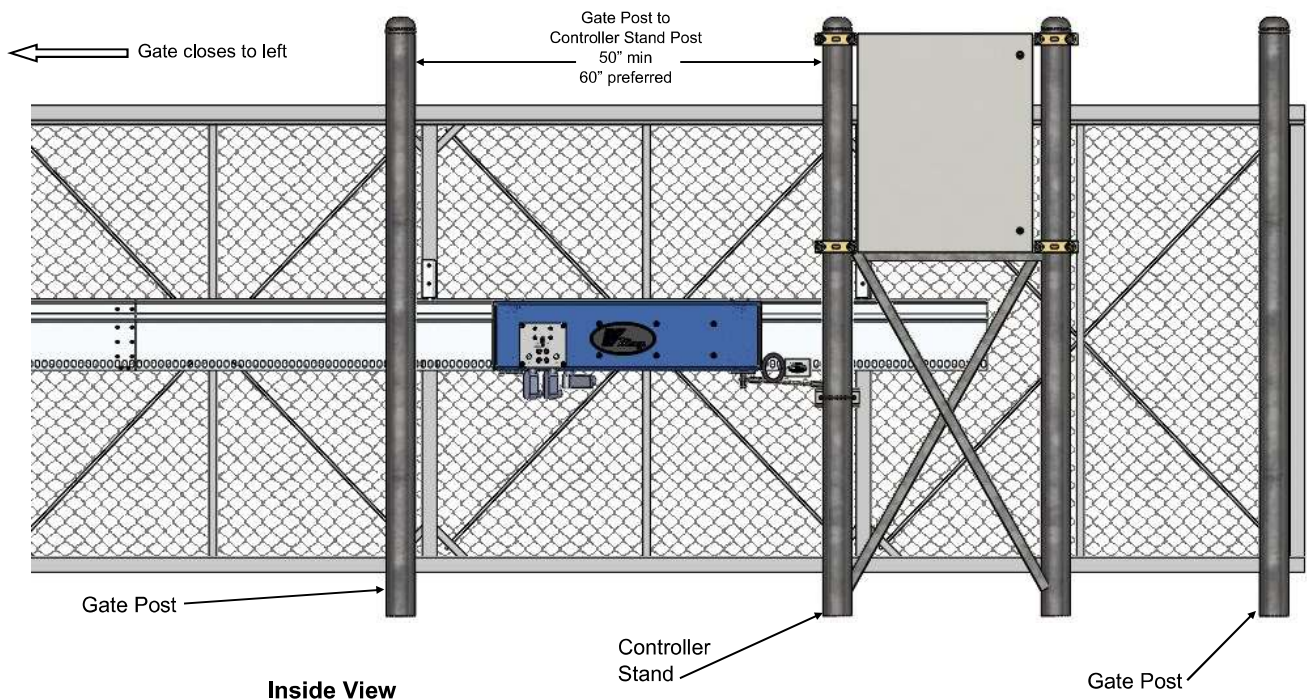
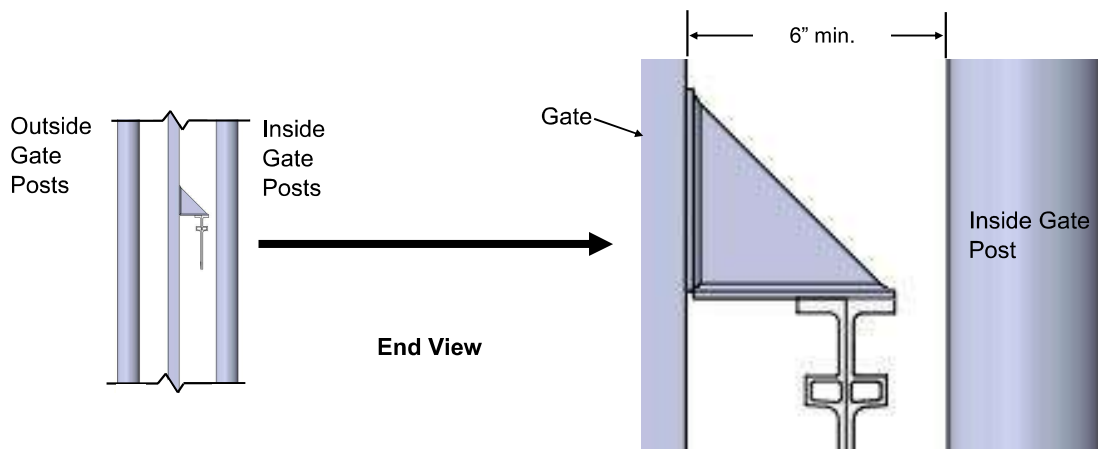
The Vmag may be adapted to various types of slide gates. This manual will illustrate installation using a typical aluminum frame slide gate. Each reaction fin section is approximately 79" (6.58 ft.) long. Add 72" (6 ft.) minimum to the gate opening to determine the number of reaction fin sections required.

$$(\text{Opening Distance (ft.)} + 6) / 6.58 = \# \text{ of reaction fins required (round up)}$$

Example: Gate opening = 24' $(24+6) / 6.58 = 4.56 \text{ sections round up to 5 sections required}$

Clearance Requirements

For dual track gates or gate posts that are on the inside (secured side)



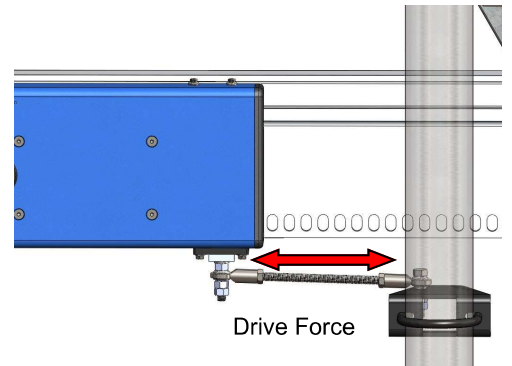
Controller Enclosure Installation

Controller enclosure must not be mounted on posts supporting the gate due to vibration from gate operation.

A fabricated stand is required for proper installation.

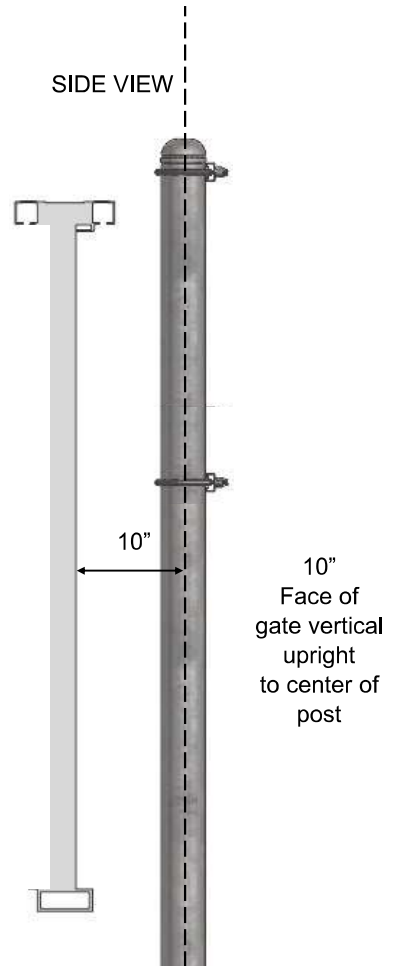
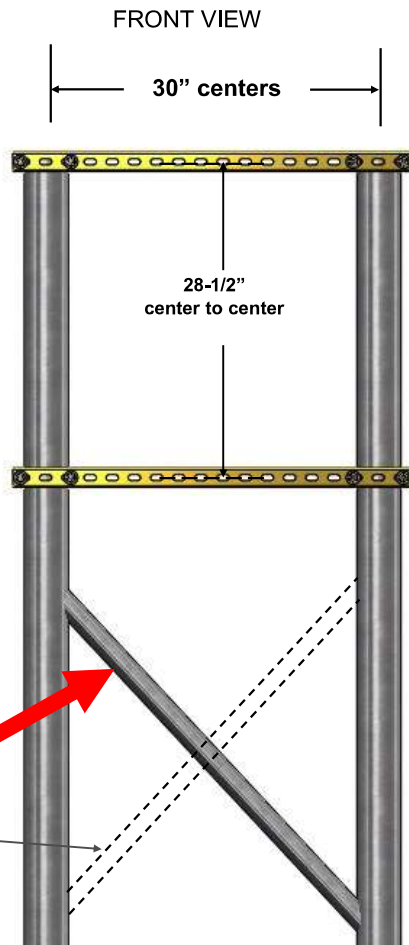
The rigidity of the post that the motor assemblies are connected to is extremely important for proper operation of the VMag.

If there is notable vibration with the motors and/or control cabinet, additional bracing will be required.



Recommended Controller Stand

- | Qty | Materials |
|-----|---|
| (2) | 4" OD square or round posts. Length determined by hole depth. |
| (2) | 1-5/8" x 36" unistrut |
| (4) | 3/8" x 4" U-Bolts |
| (1) | 2" round pipe for diagonal |



Diagonal MUST be welded for warranty to be in effect.

Diagonal shown is for left motor mounting.

Reverse angle for right motor mounting.

Proper controller stand foundation will be site soil dependent and is the responsibility of the installer to ensure proper hole depth and diameter.

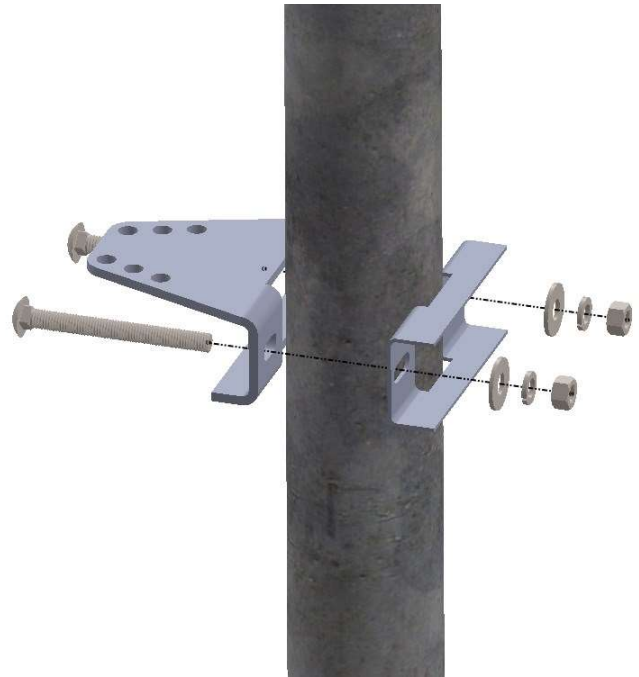
The controller stand must be ridged.



Post Bracket & Linkage Assembly Installation

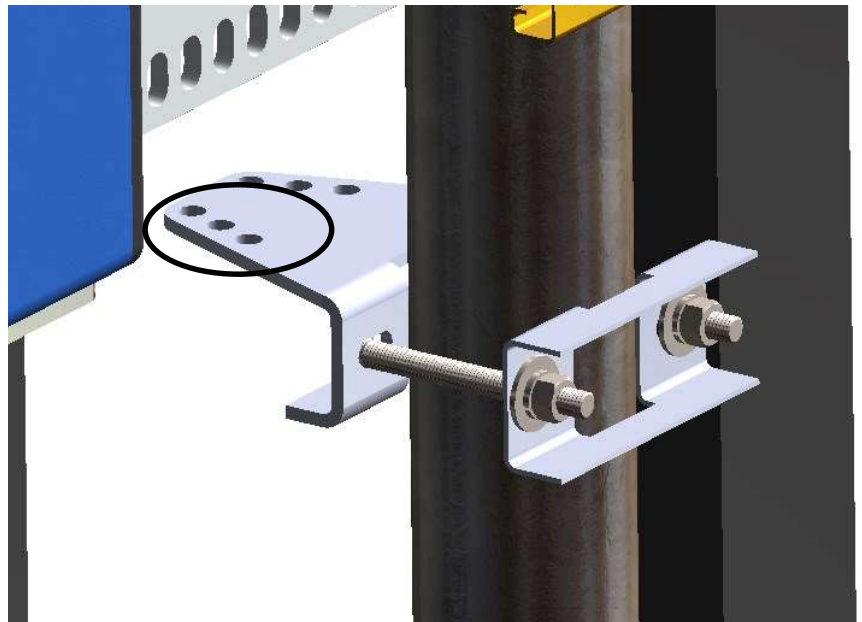
Step 1.

Install the post bracket assembly as shown using 1/2" carriage bolts, washers, lock washers & nuts. Do not tighten at this time. This will allow some positioning for the following steps.



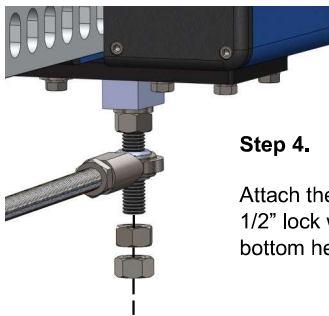
Step 2.

Determine which mounting hole in the post bracket will align the best directly under the reaction fin. Select one of the three holes closest to the motor assembly.



Step 3.

Attach the linkage assembly as shown. Securely tighten the hex nuts using the bottom nut as a jam nut.

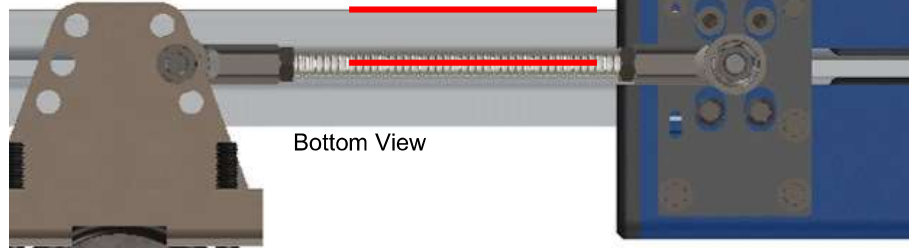


Step 4.

Attach the opposite end of the linkage assembly to the motor bracket with the 1/2" lock washer, 1/2" two 1/2" nuts. Securely tighten the top hex nut using the bottom hex nut as a jam nut.

Step 5.

Align linkage assembly as close to parallel as possible with reaction fin



Step 6.

Adjust the top of the post bracket 3" from the bottom of the reaction fin. Securely tighten .

