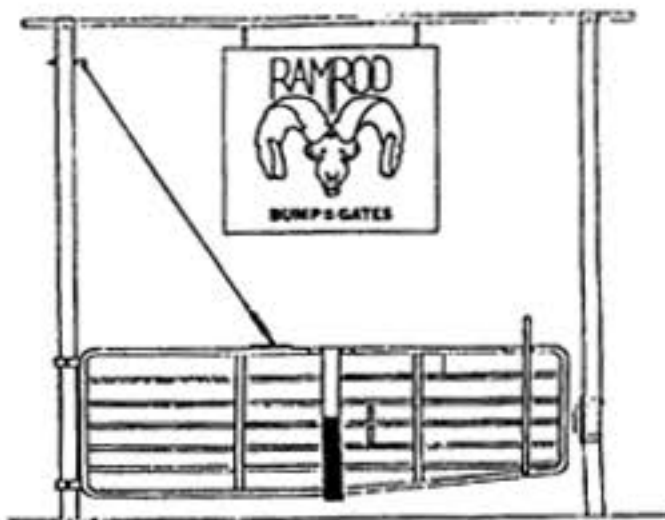


RAMROD BUMPGATE

Location and Installation Manual



Introduction

Congratulations on the purchase of your RAMROD BUMPGATE, the finest vehicle actuated gate system available today.

We have designed a simple and practical guide for the installation of RAMROD but we do suggest that a fencing specialist or fencing contractor be contacted for professional assistance, if you are not able to install. Please read this manual thoroughly before installation to determine whether or not assistance will be required. If you have any questions or problems, please call RAMROD at (702) 322-8671.

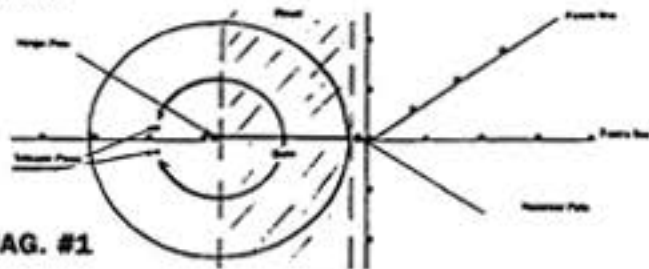
Thank you for purchasing a RAMROD BUMPGATE.

Ron Muntz,
President

I. SITTING AND LOCATION

In order to determine the proper location of the gate, there are a number of factors to consider:

1. The gate must fit properly in the roadway to permit free and easy swing with an unobstructed swing path in either direction.



DIAG. #1

2. It is also best to install the gate in a parallel line with the fence line on the hinge pole side of the gate in order to receive the maximum opening radius in either direction. This will give an equal amount of time to pass through the gate in either direction. It is not necessary to have the fence line on the receiver side parallel with the gate.

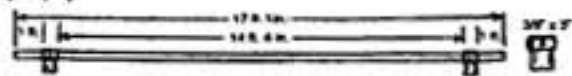
3. The ground and roadway must be level or nearly level. The gates however are designed with a modified leading edge to accommodate a rising roadway of approximately 1 ft. rise in a 14 ft. run.

II. INSTALLER'S PREPARATION OF HINGE POLE, RECEIVER POLE AND STABILIZER BAR

1. Obtain 2-21' lengths of 4" black pipe (scd 40) and 1-21' length of 1 1/2" black pipe (scd 40).

2. Cut down your 1 1/2" X 21' pipe to 17' 1" for 14' gate or 19' 1" for 16' gate.

3. Slip the cut 1 1/2" pipe in to each of the stabilizer slip brackets so there is 1' approximately past the end. NOTE: Be sure to check the inside measurement between brackets at 14' 4".



DIAG. #2

4. Mark holes and drill 7/16" hole through 1 1/2" pipe.

5. Bolt brackets to stabilizer bar securely with 3/8" X 3" bolts which are provided.

Note: One length only of the 4" X 21' pipe must be drilled out with a 7/16" (13/32) hole and must be drilled through both sides of the pipe. This is to accommodate the eyebolt, 3/8" X 6", which is provided.



DIAG. #3

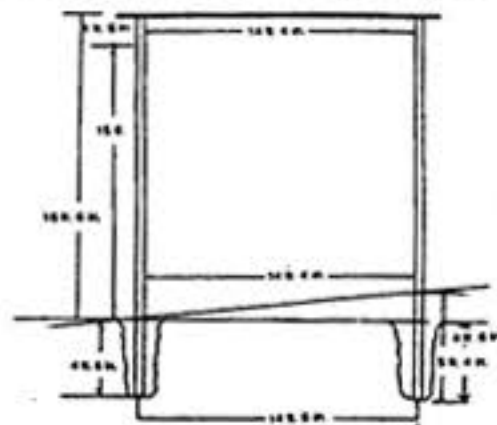
III. PREPARATION FOR GATE INSTALLATION

After the gate site has been located, mark and prepare two pole holes to accommodate two 4" X 21" black pipes. These will be classified as the hinge and receiver poles.

1. Each hole must be at least 4' to 4'6" deep and 16" in diameter.

2. Holes are 14'9" center to center, to accommodate the poles at 14'4" to inside of poles.

3. If ground is uneven between the holes, the difference must be determined by leveling across the holes as shown. This is necessary to have a level stabilizer bar across the top.



DIAG. #4

Note: The hinge pole is equipped with an eyebolt located 15'6" above the ground. If poles are not provided by Ramrod it will be necessary to drill a 7/16" hole at the proper height to accommodate the eyebolt. As in Section II, the eyebolt should be threaded all the way in.

IV. PROPER POLE MOUNTING TECHNIQUE

1. Set both pole bases in holes and prop top of poles on saw horses.

2. Slip on the stabilizer assemble (Section II) into the top of each 4" pipe.

3. Next, if available, slide into each hole a 6" X 6" long 2 X or 5" X 6" channel iron to protect the walls of the holes while lifting poles into position.

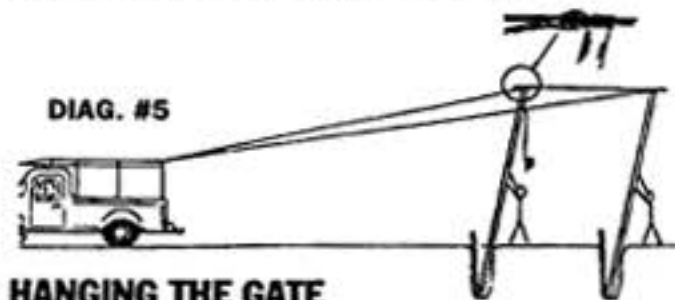
4. By attaching 2/30' lengths of nylon rope with an eye on each end of the stabilizer bar, attach to a truck bumper or lumber rack, (the higher the pulling point the better). Diag. 5

5. Slowly pull forward while someone assists by lifting and stabilizing the poles on the ground.

6. Once the gate poles have been erected, they both must

be plumbed and set in concrete. Each hole requires approximately 4-5 bags (1/2 yard) of concrete or 1 cubic yard (total for both holes).

Note: IMPORTANT: Before raising gate pole into position, it is important to attach the eyebolt and cable, letting it hang down freely for later attachment to gate. Eyebolt should be located directly in-line with receiver pole.



DIAG. #5

V. HANGING THE GATE

These procedures begin only after poles have been plumbed and set in concrete. Pole should cure in concrete for 2-3 days before hanging gate.

1. Unbolt the collar hinges on gate.

2. Set gate in position between both poles.

3. Block gate up to desired height, approx. 7-8" above the ground, only high enough to allow free swing in both directions.

4. Bolt collar hinges securely around 4" hinge pole at desired working height.

5. Attach and adjust cable and turnbuckle to gate, second hole from hinge pole. The turnbuckle* is attached to the middle eye on the gate. (fully extended at this time)*

6. Take up slack between top eye and turnbuckle, then clamp 2 cable crimps securely.

7. Tighten turnbuckle until full weight of gate is on the cable and gate hangs and swings freely.

*Measure down 12" from top of 4" X 21" hinge pole and drill this hole.

8. Remove blocks.

9. The gate should be swinging freely now at the desired height.

10. Now attach receiver component on receiver pole.
 - a. Unbolt collar straps and attach at necessary height to accommodate gate retractor rod. Rod will rest lightly on receiver ramp and extend 5/8" to 3/4" onto the ramp, (to adjust at turnbuckle).

- b. Tighten and secure receiver onto pole.

11. Enjoy

Ramrod Bumpgate Parts List

Part No.	Description	Quantity
1	Mainframe	
1-1497	Standard Ranch 4'9" X 14'	1
1-1697	H.D. Bison 5'4" X 16'	1
1a	M.F. collar hinge clamps	2
1a-001	1/2" X 1 1/2" pit #5 bolts & nuts	4
1b	Horseman handle	1
1b-02	3/8" X 2 1/2" bolt & nut	1
1c	Main retractor rod	1
1c-x	Rod Sleeve	1
1c-1	Retractor set rod	1
1c-2	RR spring	1
1d	Tumbuckle	1
1d-02	3/8" X 2 1/2" bolt & nut	1
2	Bumper Unit	
2-1	Main Bumper Bar	2
2a	Bumpers	2
2a-1	Retractor bars	1
2b	Bottom bracket	1
2c	Rod & nut	1
2d	Spring	1
2e-03	3/8" X 3" bolts & nuts	2
2f	Top bracket	1
2g-04	3/8" X 4 1/2" bolts & nuts	2
2g-040	3/8" X 3"	2
3	Safety Bumper	
3a	Bracket	4
3b-03	3/8" X 4 1/2" bolts & nuts	2
3c	Rubber tubing	2
3d	Spring	4
3e	Rod	2
4	Cable Return System	
4a	3/8" X 6" eye bolt	1
4b	5/32" X 15' cable	1
4c	Tumbuckle	1
4d	Cable eyes	2
4e	Cable crimps	4
5	Receiver Unit	
5a	Main body	1
5b	Clamps	2
5c	Stop bar	1
5d	Rod stop	2
5e-1	Spring	2
5e-2	Spring	2
5f-001	Bolt & nut	4
6	Stabilizer Unit	
6a	Stabilizer slip fitting	2
6b-03	3/8" X 3" bolt	2

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