



DO-IT-YOURSELF

Gate Opener Planning Guide

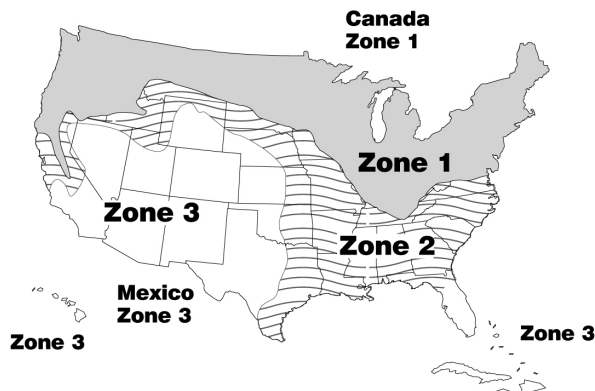
1. Select the Gate Opener best suited for your application:

Model	Gate Type	Gate Length per leaf	Weight per leaf	Capacity	Cycles per Day w/transformer
FM500	Single	up to 18 ft.	up to 850 lbs.	Heavy Duty	225
FM502	Dual	up to 18 ft.	up to 850 lbs.	Heavy Duty	115
FM350	Single	up to 16 ft.	up to 550 lbs.	Medium Duty	175
FM352	Dual	up to 16 ft.	up to 550 lbs.	Medium Duty	100
FM200	Single	up to 12 ft.	up to 300 lbs.	Light Duty	175

Note: If you have a slide gate, or if your gate is longer than 18 ft. or weighs more than 850 lbs. per leaf, ask your retailer about special order professional gate openers, or call 1-800-543-GATE (4283).

2. How will you charge the battery — Transformer or Solar Power?

All Mighty Mule gate openers are low voltage systems powered by a 12 Volt battery back up system. The battery can be charged and maintained by the transformer (included) OR by the optional Solar Power Kits (FM121/FM123). If your gate is more than 1000 ft. from an AC power source you must use solar power to charge the battery. See the Cycles Per Day chart to determine the number of Solar Power Kits needed.



ESTIMATED NUMBER OF CYLES PER DAY						
Mighty Mule SINGLE Gate Opener						
	5W	10W	15W	20W	25W	30W
Zone 1	4	8	11	14	17	20
Zone 2	8	16	20	28	36	44
Zone 3	13	26	30	38	46	54
Mighty Mule DUAL Gate Opener						
Zone 1		4	7	10	13	16
Zone 2		8	13	18	23	28
Zone 3		13	20	27	34	41
<i>Dual gates require a minimum of 10 watts</i>						

3. Important installation considerations*:

- Low Voltage Wire (RB509 or equivalent wire specifications) is REQUIRED for connecting the AC powered transformer to the control board. This 16 gauge, multi-stranded, dual conductor, direct burial wire is also required for some accessories such as the Solar Panel.
- A 12 volt standard auto/tractor battery is REQUIRED for the FM350, FM352, and FM200.
- If the gate opens AWAY from the property, Push to Open Brackets (FM148) for each gate leaf are REQUIRED. *Note: the FM200 is NOT designed for push to open gates.*
- Some types of gates may require the Gate Opener Attachment Bracket (G3210) or other reinforcements for attaching the operator (one for each leaf). See #5 on reverse.

*These items are not included with the gate opener kits.

4. Convenience and security options:

Please refer to the *Mighty Mule catalog* or visit www.mightymule.com for accessory details and requirements.

Open Gate from Vehicle:

- Single Button Entry Transmitter (FM135)
- Dual Button Key Chain Transmitter (FM134)
- Universal Receiver (RB709U-NB)
- Push Button Control (FM132)

Securing Access:

- Digital Keypad (FM137)
- Wireless Intercom/Keypad (FM136)
- Keypad Mounting Post (FM100)
- Keypad Post Extensions (F103)
- Keypad Post Surface Mount Plate (F102)

Hands-free Exiting:

- Gate Opening Vehicle Sensor (FM138)
- Wireless Vehicle Sensor (FM130)

Securing the Gate:

- Automatic Gate Lock (FM143)
- Pin Lock (FM133)
- Wireless Driveway Alarm (FM131)

Powering:

- Low Voltage Wire (RB509)
- Solar Panel 5 Watt (FM121)
- Solar Panel 10 Watt (FM123)
- Replacement Transformer (RB570)
- Replacement Battery (FM150)

Hardware:

- Push to Open Bracket (FM148)
- Gate Opener Attachment Bracket (G3210)

5. The installation:

Most installations can be completed easily in two to three hours. Each system includes an installation DVD and easy-to-read instructions. The Mighty Mule E-Z Gate Openers are designed to be installed on new or existing driveway gates.

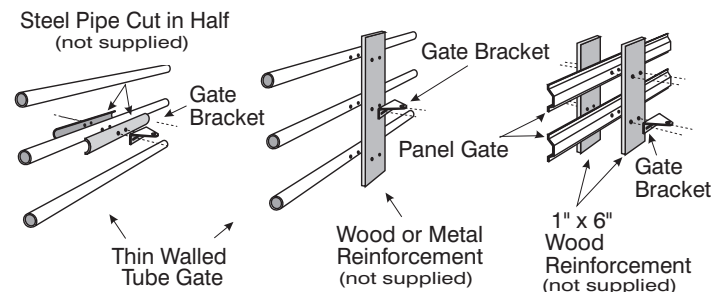
Your gate must be:

- A. Firmly hung on a well seated fence post
- B. Swing freely and evenly
- C. Level and plumb, with no gate wheels

Also:

- D. Ball bearing hinges for gates over 250 lbs.
- E. Gate posts thicker than 8" will require longer bolts (should be 2" longer than post thickness)
- F. Gate posts less than 4" will require large metal washers or steel plates for reinforcing both sides of gate post.
- G. Masonry columns require special procedures (call 800-543-1236 for details).
- H. Thin walled or panel gates may need reinforcement, see below:

Suggestions for materials you will need to reinforce your tube or panel gate: (not in kit or available from GTO)



Tools You'll Need

- Power Drill
- Wire Strippers
- Tape Measure
- Hacksaw or Heavy Duty Bolt Cutters
- C-Clamps (small, medium, and large)
- Slotted (Flat Bladed) Screwdriver
- Open End Wrenches: 3/8", 7/16", 1/2", 9/16"
- Phillips Screwdriver
- Level
- 3/8" Drill Bit

Mighty Mule
Sales: 1-800-543-GATE (4283)
Technical Service: 1-800-543-1236
www.mightymule.com