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INTRODUCTION

The **GEMINI** DC Sliding gate system is a self-contained unit, which comprises of a Direct Current electrical motor that drives the rack pinion through a reduction gearbox. The electrical motor, gearbox, and associated components are incorporated in a base box. The base box is secured to the base plate that needs to be cemented or bolted to a concrete base. The complete unit is enclosed with a weather resistant lid.

The **GEMINI** system is rigidly built for reliability, but with safety a first priority. The electronic control card makes provision for several unique features, such as remote-controlled gate opening, pedestrian opening facility, obstruction ("impact") sensing, adjustable "auto close" facility, infra-red obstruction sensing facility, townhouse function, beam follower, buzzer (optional), soft start and normal push button operation. The features are updated from time to time.

A battery (ies) is used as the power source for the electrical motor. A 220V trickle charger maintains the battery in a fully charged state. The 220V current for the power supply is derived from a normal 220V mains supply.

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LUBRICATION

VERY IMPORTANT



REMEMBER TO FILL YOUR GEMINI MOTOR WITH OIL



To fill your operator with oil, Remove the hex bolt on the gearbox cover.

Pour the oil into the hole as depicted below.



Replace the hex bolt on your gearbox and your **GEMINI** motor will now be ready for operation.



TECHNICAL SPECIFICATIONS

Motor:	DC	
Gate speed:	18 to 23 meter per min depending on specifications of gate.	
Limit switches:	Built in software as well as mechanical stops.	
Obstruction:	Electronically adjustable obstruction sensing in both directions.	
Activation:	By using any normally open contact, push button or remote control.	
Other characteristics:	 Automatic closing facility LED display for gate mode Buzzer during gate movement (optional) Infra-red beam sensing compatible Pedestrian open / close facility Mechanical override in case of a malfunction or power failure Soft start and stop Infra-red beam follower Town house function 	
Weight:	15 Kg (S00242) – 17Kg (S00246)	
Battery:	8Ah or single 5Ah sealed lead-acid type, maintenance free.	
Maximum gate weight:	600kg for (S00242) and 800Kg* for Complex (S00246)	

*Provided that gate wheels with a minimum diameter of 100mm, fitted with roller bearings on a straight and level track is used. Gate must move with ease.

Applications:

Can be used for gates with a pull force of up to 20kg-30Kg

All specifications are subject to change without notice.



GEMINI BOXED CONTENTS

Your **GEMINI** DC sliding gate system comprises of the following:

- 1. GEMINI gate motor
- 2. Weather resistant lid
- 3. PCB cover includes 3 x spare fuses
- 4. Stoppers
- 5. GEMINI 3 button Remote Transmitters x2
- 6. Angle iron brackets (weld item)
- 7. Baseplate with attachment bolts
- 8. GEMINI electronic control card (PCB)
- 9. Keys x 2
- 10. 24V 5AH or/ 8Ah Battery
- 11. Bottle oil (50ml)

Additional items to be used with motor:

- GEMINI Anti tamper bracket slide(S00242)/GEMINI Anti tamper bracket 24V Complete(S00246)
- GEMINI IRB set Wired/Wireless
- GEMINI Wheel kit 60/80mm
- Lock Discus 70mm
- Rack Steel/Nylon
- Wi-Fi/Bluetooth Receiver

All items can be purchased online on our GEMINI SHOP.

https://geminigates.co.za/shop





WARNINGS

IMPORTANT SAFETY INSTRUCTIONS:

MAKE SURE THAT THE GATE YOU FIT THIS UNIT TO WILL UNDER NO CIRCUMSTANCES OVERRUN ITS TRACK. EVEN BY BRUTE FORCE!

- NEVER WORK ON THE SYSTEM WITH THE ELECTRICAL POWER ON.
- NEVER ALLOW PERSONS OR ANIMALS TO STAND ON THE GATE OR TRACK WHILE THE GATE IS IN MOTION.
- KEEP HANDS CLEAR OF THE RACK AND PINION GEAR WHILE THE MOTOR IS IN OPERATION.
- DO NOT ALLOW ANYONE TO PUT THEIR HAND THROUGH THE GATE TRELLIS WHILE GATE IS MOVING OR ABOUT TO BE ACTIVATED.
- TEST ALL OPERATING SYSTEMS ON A REGULAR BASIS, ESPECIALLY THOSE RELATED TO THE SAFETY FEATURES I.E. OBSTRUCTION SENSING AND IR BEAMS
- DO NOT ALLOW CHILDREN TO PLAY WITH THE CONTROLS.
- KEEP REMOTE CONTROLS AWAY FROM CHILDREN.
- IT IS MANDATORY TO INSTALL INFRA RED BEAMS OR SIMILAR SAFETY DEVICES IN SUCH A MANNER AS TO PREVENT OPERATION OF THE SYSTEM WHEN THERE IS A CHANCE OF THE GATES COLLIDING WITH A VEHICLE, PERSON OR ANIMAL.

INSTRUCTION

TO RELEASE – open handle and move gate manually. Beware that the gate can move freely in any direction.

TO RE-ENGAGE

 close handle and move gate by hand until gearbox engages Also see p.17



INSTALLATION OF THE UNIT

WARNING: IMPORTANT SAFETY INSTRUCTIONS

Follow these instructions since incorrect installation can lead to severe injury.

Before installing the motor, check that the gate is in good mechanical condition, correctly balanced and opens and closes properly.

INITIAL PREPARATIONS FOR MOUNTING THE BASE PLATE

To determine the mounting position of your **GEMINI**, fully close the gate and place the unit (with base plate attached) in position so that the pinion gear is approximately 15mm away from the gate. Ideally locate the base plate against the existing gate track (the base plate is to be welded to this track at a later stage).

NOTE: The securing holes in the base box are slotted; ensure that the base plate bolts are located in the centre of these holes and that the base box and base plate are parallel.

Ensure that the centreline of the gate is parallel with the centreline of the pinion. This will ensure that the centreline of the rack will run on the centreline of the pinion. Clearly mark the position of the base plate. Remove the complete unit and prepare a foundation for base plate. Consult your local Builders Supply Store for the necessary information on concrete strengths, mix ratios and hardening times.

NOTE: Install conduit piping in the foundation to correspond with the opening in the base box, through which the electrical cables are routed.

Remove the base plate from the unit. Place and stitch weld the base plate to the existing track.

Cast concrete into the previously prepared foundation. Ensure that the exact position (previously marked) is maintained to ensure correct mounting of the unit. The base plate can also be mounted in position by means of fasteners onto an existing concrete foundation.

Mount the **GEMINI** on the base plate and align as previously described. Also ensure that the height adjustment nuts are at exactly the same level to ensure even distribution of forces on the base box.



MOUNTING STEEL RACK



Figure 1

Starting at one end of the gate, weld the rack in position by using the angle iron brackets. The following critical points must be considered:

- Please note that it is mandatory to install stoppers as indicated in figure 1.
- Mount mechanical stops to one end of loose rack as per drawing. Now position assembly as per figure 1.
- Angle iron brackets, not to be more than 600mm apart, can now be utilised to attach rack to gate.
- Allow a free play of approximately 2mm between the pinion and the rack.
- When moving the gate to the next position, the manual override lever must be disconnected free movement of gate.
- For wooden gates, drill two holes in the angle iron bracket and secure to the gate with wood screws. To prevent the gate from burning, mark the position of the angle brackets and weld to rack before securing to the gate.



MOUNTING NYLON RACK

Mount a mechanical stop at one end of the nylon rack as per Figure 2. Drill and screw the nylon rack onto the gate, ensuring that there is approximately 2mm free play between the pinion and the nylon rack. Mark and drill each corresponding mounting hole on the rack, ensuring that approximately 2mm free play is maintained. Screw the rack to the gate. Bolt stoppers to the gate by means of M6 x 90 bolts and nuts as per figure 2. Alternatively the stopper could be welded onto the gate.



Figure 2

Final adjustments can be made by sliding the unit in the slotted holes to achieve the correct alignment. Tighten the mounting nuts. The remaining stopper can now be attached to the rack in such a position that it prevents the gate from overriding the fully open or closed position.

This stopper system is Patent pending (2007/06773)



CONNECTING THE 220V AC ELECTRICAL SUPPLY



Figure 3

CAUTION:

Under no circumstances must the main electrical supply be wired directly from a power source. As a safety precaution, an ON/OFF switch must be incorporated into the electrical circuit, normally within 1 meter from the unit.

- Fuse rating for Power Supply: 0.2 0.5A Maximum
- ELECTRICAL CONNECTIONS SHOULD BE DONE BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH APPLICABLE REGULATIONS



OTHER CONNECTIONS

Battery	Make sure the red wire is on + and the black wire on –
Push button	Connect to removable connector block COM and TRIG marked on PCB, see p13
Pedestrian push button	Connect to removable connector block COM and PED marked on PCB, see p13
Infra-red sensor	Connect to removable connector block COM and IR BEAM and 24V+ marked on PCB, see p13
Keypad	Connect to removable connector block COM and TRIG or PED (optional) marked on PCB, see p13
Additional receiver	Plug in on electronic control card marked RECEIVER PLUG.
LED	Point available for extending status LED to a remote location.
Auto close loop	When the loop is removed the auto close function is disabled.
220V light	a 220V light can be switched on by the PC Board. See diagram below.
24V supply	Additional 24 volt point available to provide power for infra-red beams or keypad, etc. (Max 1 Amp)

220V Light Connection





Ensure that all the legal requirements for your local area are complied with.



Figure 4



PROGRAMMING A GEMINI CODE HOPPING REMOTE CONTROL

Important: The transmitters and receiver supplied with this motor have already been programmed. Only additional transmitters and receivers need to be programmed.

Once the electrical supply is correctly connected, the additional transmitters can be programmed.

If a non-**GEMINI** remote control is used, program the control as per the supplier's instructions.



LEARN Button

Figure 5

To learn the transmitters (Maximum of 30):

- 1. Press and hold transmitter(remote) button.
- 2. Press and release the learn button on the PCB.
- 3. Receiver LED on PCB will flash twice.
- 4. Release transmitter button after led flashed twice.
- 5. Repeat steps 1-3 for additional transmitters.

To erase all transmitters:

1. Press and hold the LEARN button for 10 seconds or until receiver LED turns off.



MOTOR DIRECTION

REVERSING THE ELECTRICAL MOTOR DIRECTION

Refer to the electrical diagram (figure 6). The electrical motor direction default is set by positioning the gate direction dipswitch on the electronic control card either to the left or right.

TOWNHOUSE FUNCTION

The townhouse function allows the gate to open completely without accepting any commands from any source other than obstruction sensing.

Refer to the electrical diagram (figure 6). The townhouse function is set by positioning the townhouse dipswitch on the electronic control card either to the ON or OFF position.



Figure 6



INFRA-RED BEAM FOLLOWER

This function operates only when the gate is opening. It allows the gate to stop when the beam is interrupted. The gate will remain in this position until the obstruction has been removed from the path of the beam and will then **close**.



OBSTRUCTION SENSITIVITY ADJUSTMENT

Figure 7

Obstruction sensing should be set so that the gate will stop and reverse on impact while closing. The obstruction sensitivity is set at the factory, but it will be necessary to adjust the sensitivity to suit your gate's requirement.

Obstruction sensitivity is adjusted by adjusting the sensitivity potentiometer on the electronic control card (See figure 7). If adjustment is required, insert a small flat tip instrument type screwdriver into the potentiometer adjustment slot and adjust as follows:

- Turn the potentiometer clockwise to make sensitivity LESS.
- Turn the potentiometer counter clockwise to make sensitivity MORE.

Test impact sensitivity by bumping the gate by hand in the opposite direction of movement, re-adjust until the ideal impact sensitivity is achieved.



SETTING THE AUTO CLOSE DIPSWITCHES

After your **GEMINI** unit has been installed and you wish to alter the time delay for the auto close facility, proceed as follows:

0=0FF 1=0N

SWITCH NO. & POSITIONS	TIME DELAY (in seconds)
0000	Off
1110	2
1000	10
0100	20
1100	30
0010	40
1010	50
0110	60



Figure 8

SETTING THE AUTO CLOSE DIPSWITCHES (CONTINUED)

The dipswitches are marked No. 1 to 4 (See figure 8) Refer to table on page 16.

Choose a time delay to suit your personal requirements, i.e., 50 seconds; dip switch settings must be 1010.

Move the no.1 dipswitch to the ON position, the second switch the OFF position, the third switch to the ON position and the fourth dip switch to the OFF position. Your 50 second **Auto Close** time delay is now set.

Removing the Auto Close Loop on the electronic control card will disable the auto close function even if a time delay is set.



OPERATING PROCEDURES

INITIAL TESTING PROCEDURES AFTER INSTALLATION OR DISENGAGING

- 1. Disengage the manual override lever and move the gate to the halfway position. Re-engage the override lever. Ensure that the gearbox has re-engaged by moving the gate until a clicking sound is heard.
- 2. Press the remote-control button. The gate must move to the closed position at slow speed and stop. If necessary, adjust the stopper position on the rack.

NOTE:

If the gate moves to the open position on the first activation, the electrical motor direction is incorrectly set and must be reversed. Refer to "Reversing the Electrical Motor Direction" on page 14 for the correct procedure.

- 3. The gate will remain in the closed position until activated. Gate will then move to the open position at slow speed and stop. If the stopper has been moved, disconnect the power (battery and charger). The motor will re-learn the stopper locations.
- 4. Perform an obstruction-sensing test. If necessary, refer to "Obstruction Sensitivity Adjustment" on page 15 and adjust the obstruction sensitivity.
- 5. Test the operation of the gate from inside the house by using the push button

DAILY OPERATION:

- 1. The gate can now be operated by either the remote control or the push button inside the house.
- 2. If either the remote control or the push button is pressed while the gate is in motion, the gate will react as follows:
 - a. If the gate is closing: The gate will stop and open
 - b. If the gate is opening: The gate will stop and wait for the next command. If the "Auto Close" function is selected, the gate will close after the pre-set time
 - c. **If townhouse function is selected:** The gate cannot be stopped while opening, other than by some form of obstruction.



OPERATING PROCEDURES (CONTINUED)

- 3. If the gate senses an obstruction while closing, the gate will stop and move to the open position. If auto close is selected, the gate will wait its allotted time and then close. If the gate senses an obstruction three times while trying to close, the gate will move ±200mm away from the obstruction position and remain there while waiting for the next command.
- 4. If the gate senses an obstruction while opening, the gate will stop and wait for the next command. If the "Auto Close" function is selected, the gate will close after the pre-set time.
- 5. In the unlikely event of malfunction, the battery flat or any other reason to disengage the gate from the motor, use the supplied key to unlock the release handle and move to the disengage position. The gate can now be operated manually.
- 6. When re-engaging the gate for remote operation, move and position the gate halfway in its travel. Close the release handle and move the gate slowly by hand until a clicking sound is heard. The gearbox is now engaged and ready for use. **Never engage or disengage the motor while the gate is in motion.**



STATUS LED/BUZZER



Figure 9

- 1. A buzzer can be fitted to the electronic control card and acts as an audible tell-tale indicator conveying the following messages:
- Continuous beeps / LED flashes (approximately one beep every second). Gate is either opening or closing.
- Double beeps / LED flashes in succession. Indicates a main power supply problem.
- Triple beeps / LED flashes in succession. Indicates a low battery voltage.
- Approximately one beep / LED flashes 5 seconds after the gate has closed. Gate is not fully closed.
- Four flashes/beeps in succession. Release lever not engaged or reed switch faulty.
- 2. The buzzer can be de-activated by removing the buzzer jumper from the electronic control card. See figure 9. This will have no effect on the operation of the gate.



TROUBLE SHOOTING GUIDE

Should a problem occur, consult the following table first before calling your local **GEMINI** agent.

WARNING: DURING SOME OF THE FOLLOWING CHECKS / TESTS, IT WILL BE NECESSARY TO WORK ON THE UNIT WHILE THE ELECTRICAL POWER IS SWITCHED ON (LIVE), THEREFORE UTMOST CARE MUST BE TAKEN TO PREVENT ELECTRICAL SHOCKS.

PROBLEMS DURING THE INSTALLATION / OPERATING PHASE

PROBLEM	POSSIBLE CAUSE	REMEDY AND/OR TEST
System learns wrong limit position	 a. Battery not fully charged b. Obstruction interpreted as limit 	 a. Charge battery before first operation b. Identify and rectify possible obstruction c. Assist gate manually during learning phase
Electrical motor does not turn	 a. Is the battery connected? b. Is the electrical power correctly connected? c. Fuse on the electronic control card blown 	 a. Connect battery b. Check and rectify as necessary c. Replace with correct value fuse
Power is ON (LED indicating) but motor does not react	 a. Wiring to the electronic control card not properly connected b. Electronic control card defective 	 a. Check and rectify as necessary b. Replace electronic control card
Motor operates by actuating the push button, but not with the remote control	 a. Is the remote learned correctly? b. Remote control battery flat c. Remote control defective 	 a. Check, and if necessary, reset security code b. Replace battery c. Replace remote control



TROUBLE SHOOTING GUIDE (CONTINUED)

PROBLEM	POSSIBLE CAUSE	REMEDY AND/OR TEST
	a. Faulty wiring to the push button	a. Disconnect the push button wiring from the GEMINI gate motor and bridge the COMMON and TRIG connections at the connector block. If motor operates, the wiring is faulty and must be repaired
Motor activates with the remote control but not with the push button	b. Push button faulty	 b. Disconnect push button wiring at the push button. Momentarily bridge the wires at the push button. If the motor operates, the push button is faulty and must be repaired or replaced
Gate motor direction incorrect	a. Incorrect setting	a. Refer to "Reversing Electrical motor direction" p.14
	a. Transmitter battery	a. Replace battery
Receiver reception insufficient	a. Receiver range is obstructed	a. Place in different position
Motor opens the gate for a short travel only, then closes again	a. Gate too heavy for unit	a. Discuss the problem with your local GEMINI agent
	b. Obstruction on track	b. Clear obstruction
	 Obstruction sensitivity too high 	c. Adjust obstruction sensitivity to suit your gate



TROUBLE SHOOTING GUIDE (CONTINUED)

PROBLEM	POSSIBLE CAUSE	REMEDY AND/OR TEST	
	a. Motor has forced the gate against the gatepost and cannot release by itself	a. Disengage the manual override and move away from gatepost	
	b. Stoppers incorrectly adjusted	b. Adjust the stoppers	
Motor makes a "clicking"	c. 16 A fuse is blown	c. Replace fuse	
sound but does not switch ON	A power surge has caused a problem on the electronic control card	Switch the main electrical power switch OFF. Disconnect the battery and wait 10 seconds, then switch the power ON again and reconnect the battery	
Gate moves with difficulty	 a. Wheel track is dirty b. Wheel track has burrs or markings c. Insufficient free play between pinion and rack (wheel track has sagged). Weight of gate is lying on pinion d. Battery faulty and/or flat 	 a. Clean wheel track b. Repair burns and/or markings c. Repair the sagging problem and restore free play between pinion and rack d. Replace and/or charge battery 	
Gate opens and closes by itself	 b. Faulty push button wiring c. Faulty remote- control receiver d. Somebody in your 	 b. Check and rectify as necessary c. Replace the remote-control receiver d. Change your 	
	area is using the same security code as yours	security code, only if using non-Gemini transmitters	



TROUBLE SHOOTING GUIDE (CONTINUED)

PROBLEM	POSSIBLE CAUSE	REMEDY AND/OR TEST
Buzzer sounds (if fitted) after gate has closed (approximately one beep every 5 seconds)	Gate is not fully closed. Motor has forced the gate against the gate post or an obstruction on the wheel track	e. Check and if necessary, adjust stoppers
Buzzer sounds (if fitted) double beeps in succession Buzzer sounds (if fitted) triple beeps in succession	 a. Main power supply defective Is the main power switched ON? 220V mains incorrectly connected a. Power Supply fuse blown Battery voltage low Is the main power switched ON? Is the main power switched ON? Is Power Supply LED on, if not check fuse. Power must be switched off while testing. 	 a. Check the following: Switch ON the main power supply Check and rectify as necessary a. Replace with fuse of the correct value a. Check the following: Switch ON the main power supply Replace with fuse of the correct value
Buzzer does not sound at all	 a. Is the buzzer fitted? b. Is buzzer jumper fitted? c. Buzzer defective 	 a. Fit buzzer b. Fit buzzer jumper c. Replace electronic control card
Upon activation gate only moves about 5mm and then stops	a. Faulty pulse sensor	a. See page 24/25



MAINTENANCE

The **GEMINI** sliding gate opener system is a maintenance free unit and needs very little attention other than checking the gate track for obstructions (excessive dirt, sand, stones, etc.)

On a 6-monthly basis, it is advisable to remove the protection lid and blow off all accumulated dust and dirt from the unit with low pressure compressed air.

REPLACING THE REMOTE-CONTROL BATTERY

- 1. Using a small flat screwdriver, remove the rear cover from the remotecontrol unit.
- 2. Remove the battery from its holder.
- 3. Check that the holder and contact points are clean (signs of corrosion, etc.).
- 4. Fit a new battery, noting the position of the (+) and (-) end of the battery. The (-) end of the battery faces towards the spring connection.

REPLACING THE PULSE SENSOR (SEE ILLUSTRATIONS ON PAGE 25-26)

- 1. Remove the protection lid
- 2. Remove the red gearbox clip (Figure 10a)
- 3. Disconnect the 3-way connector and connect the replacement pulse sensor (obtainable from your nearest **GEMINI** dealer)
- 4. Channel the harness through the clip (Figure 10b)
- 5. Insert the gearbox clip to its original position
- 6. Re-program the gate opener (See page 17,18)



REPLACING THE PULSE SENSOR

Remove the red gearbox clip (Figure 10a)



Figure 10a

Disconnect the 3-way connector and connect the replacement pulse sensor to the harness and channel through its clip. (Figure 10b)



Figure 10b

Insert the gearbox clip to its original position.



STANDARD GUARANTEE

GEMINI AUTOMATION SYSTEMS supplied by DMI Engineering are warranted against defects in material and faulty workmanship for 12 months from the date of purchase. 24V DC systems only have a 12-month guarantee.

This warranty applies only to products purchased new from DMI Engineering or its authorised dealers. This warranty does not apply to products which have been subjected to lightning, flood damage or any other freak occurrence of nature, abused, modified, or repaired by someone other than DMI Engineering or its authorised dealers.

- A) No batteries are included in the warranty
- B) Electronic components have a 12-month warranty

If a **GEMINI** automation product proves defective in material or workmanship within the warranty period, please return it to any authorised dealer or DMI Engineering, transportation to and from DMI Engineering prepaid, enclosing your name and address, adequate proof of date of purchase and a short description of the defect. DMI Engineering, at its discretion will repair or replace the defective

product free of charge. Repairs or replacements are warranted as described above for the remainder of the original warranty period. DMI Engineering's sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective product.

The foregoing warranty is exclusive and in lieu of all other warranties or condition, written or verbal, expressed or implied all of which are hereby disclaimed. There shall be no liability, for incidental, consequential, or special damages, or any other damages, costs, or expenses, excepting only the cost or expense of the replacement or repair.

Use only authorised parts and/or accessories. Any damage or malfunction caused by the use of unauthorised parts is not covered by the warranty.

No warranty is applicable on products not registered with DMI Engineering within the prescribed time and on the correct form



WARRANTY REGISTRATION FORM

Form can also be completed online www.geminigates.co.za

Name of user
Date
Postal address:
Code:
Telephone No: ()
Fax No: ()
Date of installation
Serial No of Unit
Are you satisfied with the service provided by your dealer / installer? YES / NO $$
Comments:

FOR OFFICE USE ONLY

Date received:....

File No:....

Please cut out and forward this Warranty Registration to:

sales@geminigates.co.za

or

The Manufacturer PO Box 36816 Menlo Park 0102