



BASIC OPERATING INSTRUCTIONS FOR DOFYGATE 3

This document contains the instructions for Dofygate DG3 Unit and options intended for controlling traffic or people.

Special Note 1 Weight is important. Ensure the three blocks supplied are always in place.

Special Note 2 Do not add anything to the arm without first consulting Dofygate





INFORMATION YOU MUST TAKE HEED OF

- THE MAIN ON/OFF SWITCH IS IN THE CABINET
- YOU WILL NEED TO CONNECT THE BATTERY RED WIRE ON RED TERMINAL
- YOU MAY NEED TO TWIST THE SOLAR PANEL TO FACE EAST, WEST OR SOUTH – SEE SOLAR PANEL SECTION
- DO NOT LEAVE THE GATE ON AND UP FOR EXCESSIVELY LONG PERIODS IF THE SOLAR PANEL IS SHADED OR THE BATTERY WILL RUN DOWN
- KEEP THE SOLAR PANEL CLEAN
- IF THE GATE SLOWS DOWN CHARGE THE BATTERIES USING THE CHARGER PROVIDED

FOR HELP +44(001263 493102 or +44(0)7785 352730

IF YOU ARE MOVING THE GATE ON A VEHICLE YOU MUST SEPARATE THE GATE FROM THE STAND

ALWAYS ENGAGE THE ARM LOCK WHENEVER MOVING THE BARRIER

WHAT YOUR DELIVERY CONTAINS AND WHERE TO LOOK FOR WHAT

Your delivery should arrive as a single consignment unless otherwise notified. Check the delivery note matches the items. Notify Dofygate of any missing items or any damage immediately.

ASSISTANCE – In the event that you need assistance during installation or after please refer to the manufacture website under 'other info' www.dofygate.co.uk or use the contact numbers on the website if you require further help.

SAFETY INFORMATION

General Warnings and Precautions



Do not remove the plastic covers from the gate arm unless the gate is turned off



Do not remove the gate from the gate holder unless the gate has been turned off.



Do not remove or change the battery unless the gate has been turned off.



Do not connect the battery to a mains charger while the battery is connected to the gate



Ensure arm lock is engaged before moving barrier.

Environmental conditions that may affect use

Temperature – The gate has been tested for prolonged periods down to -10 degrees C for 7 days continuously and down to -20 degrees C for 24 hours and continues to operate at these temperatures. Battery output is affected if the battery itself is cooled to below -5 degrees C. This means that in extreme conditions the energy reserve of the battery will be up to 30 % less than expected. Where the gate becomes frozen in wet conditions it will normally break the frost grip but in some circumstances may need to be ‘knocked’ upwards.

Special note on Infra-Red options. Where auto close and/or auto open is in use then freezing wet weather may interfere with normal operation. Where this happens wipe the lens.

Rainfall – Wet weather will have no effect on the operation of Dofygate. Should the weather be so severe that flooding occurs around Dofygate then we recommend that the battery is removed if the water level is likely to reach cabinet level.

Wind – Wind speeds in excess of 50mph may affect the operation of Dofygate depending how the wind strikes the gate when it is moving from an open position to a closed position.

Sunshine – All exterior components are UV stabilised or unaffected by sunshine. This is a sunshine powered device so prolonged periods when the gate is left turned on with no available sunshine to recharge itself will result in failure to

operate. The solar panel should be turned to point South, West or East but not North.

1.0 Assistance Information

Sales 44(0) 1263 493102

Technical help 44(0) 1263 493102

Out of hours help 44(0) 7785 352730

Alternative number 44(0) 1263 768142

E Mail sales@dofygate.co.uk

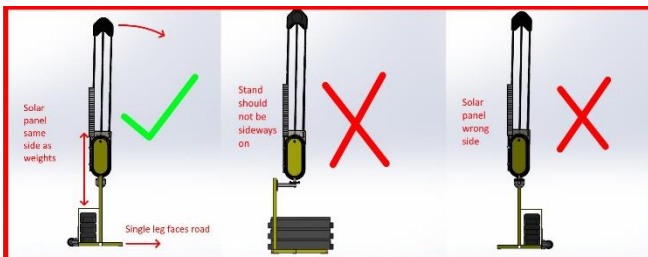
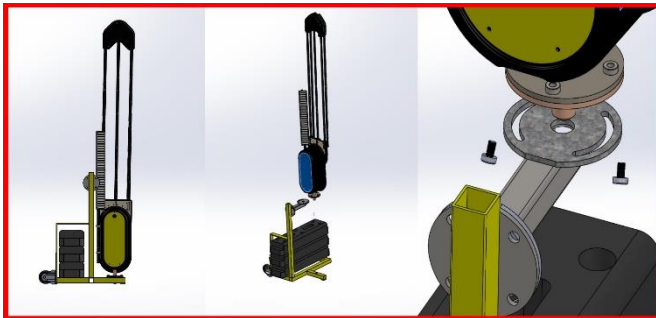
For operational information including tuning in transmitters or pairing gates then please try our web page www.dofygate.co.uk and go to 'useful information' tab.

Dofygate Ltd is located at Manor Farm,
Calthorpe,
Norwich.
NR11 7QR

1.1 Unpacking a pallet delivered gate

Unpacking a pallet delivered gate – with stand – **Read this first**

1. Move pallet near to intended location before removing barrier from pallet if possible
2. Remove all ties
3. Lift barrier into stand (Unit weight is 22kg)
4. Ensure correct orientation – NOTE the barriers are handed the stands are not. The single leg of the stand should face the roadway i.e. the same way the barrier comes down.

**2.0**

Accessories

- Extra transmitter keyring type –any gate
- Extra transmitter tough type –any gate
- Extra transmitter long range (200m) type – any gate
- Keypad
- Automatic opening
- Telephone opening
- Fixed radio button
- Extra post fixing – allows the gate to be relocated easily
- Battery – 9.0Ahr12V SLA AGM battery
 - Alternative 7.0Ahr12V SLA AGM battery

3.0 Setting up instructions

Order of fitting – Key to adjust bolts is on the inside of cabinet door

1. Tighten one of the cap head bolts holding adjustable bracket to roundel welded to post & loosen others
2. Drop gate unit into adjustable bracket
3. While holding cabinet loosen the tight bolt to allow barrier to be levelled. Tighten all bolts when level
4. Fit any other wired in option

Use the supplied 6mm Hex Key to loosen the **ORANGE** highlighted bolts on the stand.

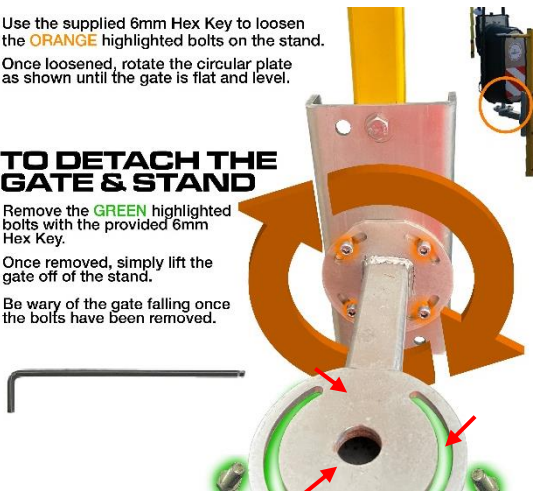
Once loosened, rotate the circular plate as shown until the gate is flat and level.

TO DETACH THE GATE & STAND

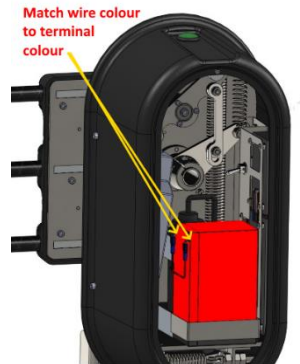
Remove the **GREEN** highlighted bolts with the provided 6mm Hex Key.

Once removed, simply lift the gate off of the stand.

Be wary of the gate falling once the bolts have been removed.



Check Battery - Remove front cover using the cover key on lanyard. Make sure the toggle switch above the battery holder is up (off). **Attach the colour coded power wires matching red wire to red terminal & black wire to other terminal.**



Switch on using toggle switch above battery – down is on.

Solar Panel

Twist solar panel to face East South or West. Take into account any shading when the barrier is open (up). **If the barrier is to be left up for more than 5 days then it is best to switch barrier off.**

NOTE – if the gate is to be left up during the day then the solar panels should be aligned in the up position for the sun rather than the down position.

4.0 Gate operating Instructions

Transmitter operation

DG3 transmitters have 6 buttons arranged in colour coded pairs. Each transmitter is unique. A barrier paired with the red buttons will only operate from the red buttons on that transmitter. Other transmitters can be paired.

NOTE we normally send gates out tuned into the red buttons.

Obstruction

If the gate meets an obstruction while in motion it will stop or reverse back to its previous stop point.

Emergency gate opening procedure

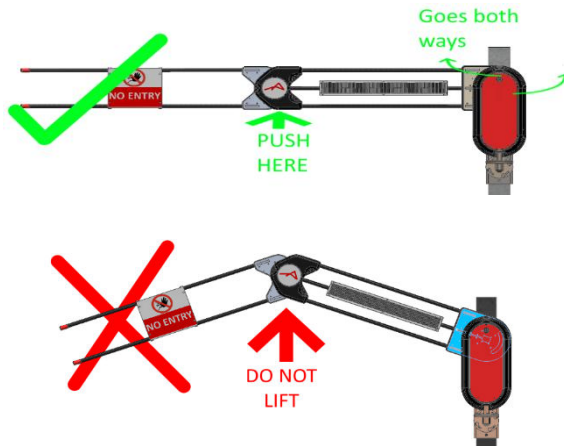
Push the gate open at the mid (elbow) point so that it swings on the gate axis. The impact clutch will give way and allow the gate to move through 90 degrees and lock in that position.

Impact clutch

Located in the base of the cabinet is a mechanism that will allow the gate to swivel away from a force that is sufficiently large that damage to the gate may occur.

NOTE:- THE SPRING PRESSURE ON THE IMPACT CLUTCH CAN BE ADJUSTED TO PROVIDE MORE OR LESS RESISTANCE TO BEING PUSHED OPEN.

To reset to the working position simply push back and will lock into its working position. – If it does not then the cap heads holding the gate into the adjustable fitting are loose –



re-adjust as required.

5.0 Transmitter

Tuning in procedure (Pairing)

Open the cabinet using the key provided with the gate and locate the 'operate'. Pressing the 'operate' button either opens or closes the gate. Have the transmitter(s) to hand before starting

1. Turn the gate(s) off
2. While holding down the 'operate' button, switch the gate on with the internal toggle switch.
3. Release the 'operate' button. (LED flashes slowly)
4. On your transmitter press either red, green or yellow button depending which one you want to open the gate (LED flashes quickly)
5. Press the same transmitter button again. (LED flashes slowly)
6. *If you have more than one transmitter to tune in then repeat steps 4-5 for each transmitter*
7. Wait for red LED to flash slowly then press the 'operate' button to lock in the transmitter(s).
8. Check successful operation by operating barrier with transmitter



9. If a synchronized pair units are involved then turn this unit off and repeat procedure on other.

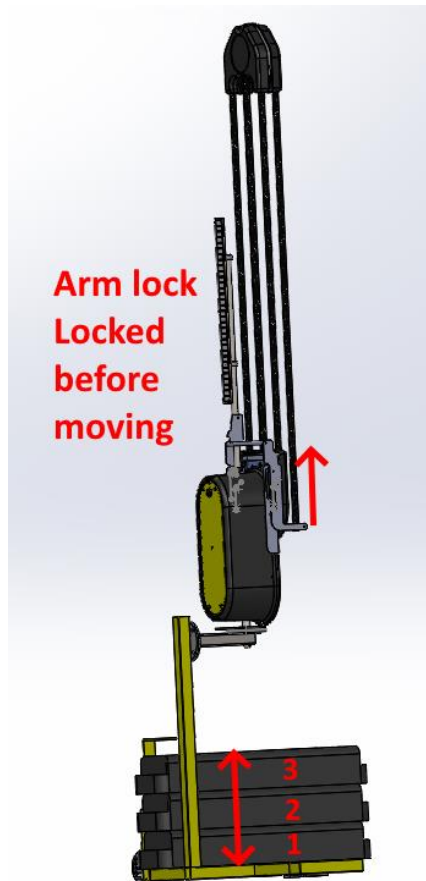
5.7 Stands

Stands should sit on firm ground or concrete. Where firm ground is not available then use a paving slab as the base.

The ground does not need to be exactly level but does need to be flat. Remove any areas that are not flat and do not allow the stand to sit firmly.

Use the adjustable bracket to adjust the gate as necessary.

PLEASE ENSURE ALL
WEIGHTS ARE IN
AND
ARM LOCK IN LOCK
POSITION BEFORE
MOVING



6.0 Maintenance

Clean the solar panel regularly. A small amount of dirt can have a significant effect on power production from the panel. Check alignment of the solar panel.

Check any shading to the panel from vegetation.

Battery

Use the internal digital volt reader to check the battery.

- Over 13.7v + overcharge
- 12.4-13.7v Good
- 12.0-12.4v OK but overnight charge if no sun forecast
- 11.5-12.0v Charge immediately
- Under 11.5v recycle battery through approved channel

If the barrier does not seem to be holding its charge then check the battery voltage under load. While holding the battery indicator button operate the barrier using the transmitter. Whatever the voltage before operation if the battery voltage falls by more than 0.25v then recycle the battery

Always recharge a battery straight away. If a battery is left in a run-down state for more than 2 days then it will lose capacity. It takes 12 hours to recharge a battery using the charger provided.



Battery spec

Sealed Lead Acid (SLA) Absorbent Glass at (AGM) 12 volt 9 Amp Hour battery usually defined as '12v9Ahr SLA AGM battery'

NOTE – IF A BATTERY IS LEFT IN A LOW VOLTAGE CONDITION FOR ANY LENGTH OF TIME ITS ABILITY TO REACH FULL CHARGE AGAIN WILL BE COMPROMISED. IF THE BATTERY DOES NOT HOLD ITS CHARGE FOR VERY LONG THEN REPLACE WITH A NEW BATTERY.

Battery alternatives that will fit

12v9.0Ahr SLA AGM – any brand – F1 or F2 terminals

12v7.5Ahr SLA AGM – any brand – F1 or F2 terminals

12v7.2Ahr SLA AGM – any brand – F1 or F2 terminals

12v7.0Ahr SLA AGM – any brand – F1 or F2 terminals

Transmitter battery spec

AAA 1.5v Alkaline battery * 2

9.0 Troubleshooting

Symptom	Problem	Solution
Gate moves slowly	Low battery	Charge or exchange battery
Gate does not close	Low battery	Charge or exchange battery
	Dirty sensor	Clean sensor
	Obstruction	Remove obstruction
	Damaged sensor	Exchange sensor
	Auto open has low battery	Charge or exchange battery
	Keypad has low battery	Charge or exchange battery
	Fixed radio button has low battery	Charge or exchange battery
Gate does not open	Low battery	Charge or exchange battery
	Loose axle mounting	Call Dofygate
	Damaged motor	Check motor mounting points
	Broken mainspring	Remove battery and observe
Gate does not respond to fob	Low fob battery	Change fob battery
	Water damaged fob	Exchange fob
	Damaged cabinet button	Exchange button and retune to fobs and options
End section misaligned	Interference	Pull or push into position
	Cable off	Remove cover and reset cable
Battery does not hold charge	Damaged battery cell	Replace battery 12V 7Ahr SLA AGM