

**INTER
GLIDE**



REMOTE CONTROLLED
SWING WHEEL GATE OPENER
SWR-500
INSTALLATION MANUAL & SERVICE BOOK



Dear Customer,

We wish to congratulate you for choosing

INTERGLIDE AUTOCONTROLS

system, leading supplier of various type automatic opening systems for Swing Gates, sliding Gates, Rolling Shutters, Garage shutters, Boom Barriers, Sliding Glass Doors etc, which are developed in India.

Hence, we assure you trouble free operation and committed service at all time to come.

To ensure a long trouble-free operation, give proper care and maintenance as described in this manual.

We wish you the best out of this system.

INTERGLIDE AUTOCONTROLS

INTRODUCTION

STANDARD COMPONENTS:

Gate Motor	- 2 Nos
Control Box	-1 No
Limit Magnets	-2 Nos
Stopper Lock Plates	-2 Nos
RF Remotes	-2 Nos
Release Keys	-2 Nos
Wire Shield	-2 Nos

OPTIONAL ITEMS

IR Photocell
Battery Backup
Flashing Light
Wifi switch
GSM Switch
Additional Remote



Item	Description
Supply Voltage	230 VAC Single Phase
Motor - DC	24 VDC / 40W each
Operating Speed	90 Degrees in 10 Secs
Required Ground Clearance	25 to 50 MM
Gross weight	21 Kg
Package Dimension	360 x 300 x300 MM

Gate Motor: Motor with gear assembly to open / close the gate.

Control Box- This consists of PWM based control circuits to supply drive power to the motor. Built in Battery Charger and Radio Frequency Receiver.

Limit Magnet- These magnets are installed in the ground, to determine the open end.

RF Remote Transmitter: This is hand held remote switch to signal open/close operation. Range of the transmitter without any obstruction is approximately 50Mtrs.

Stopper Plates: This is installed in the ground, at the gate close position. This work as a lock also.

Release Keys: Provided to unlock the Gear Motor, in case of power failure.

Wire shield-Flexible sleeve, to protect the wires in the bending portion.

IR Photocell- Installed to sense obstruction, while closing.

Flashing Light: Flashes with siren ,during gate operation.

Wifi Switch: Gate can be operated through Cell Phone, if Wifi is available.

FEATURES:

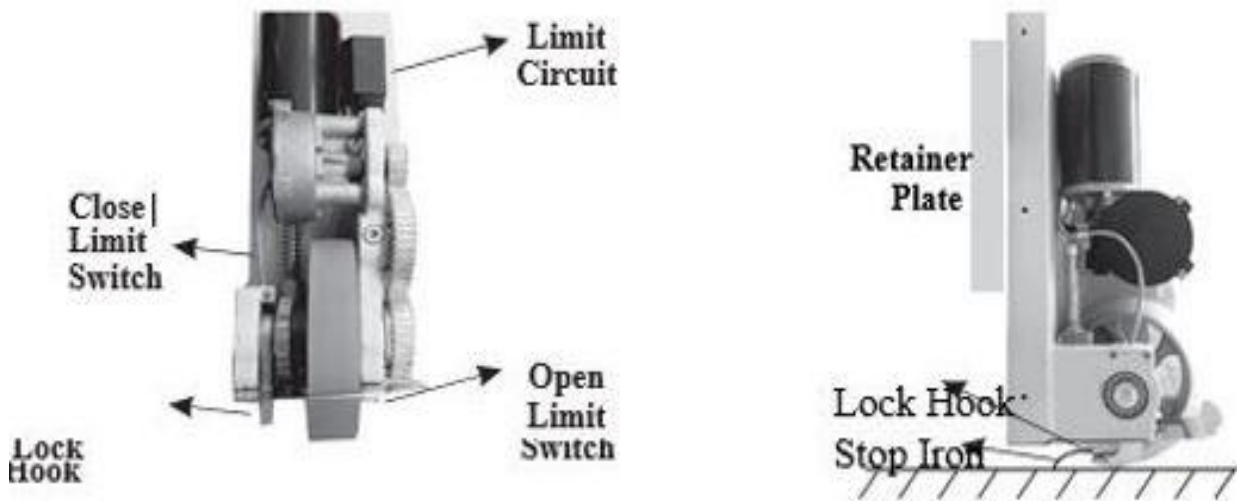
1. Single or Double Motor Operation.
2. Over Load detection: Running Motor Stops on Obstacle detection.
3. Safety Photocell- Any obstruction, while Closing , reverses the gate.
4. Battery Backup Provision with in built Battery Charger(12V/7AH – 2 Nos)
4. Activation through
 - Manual Switch
 - RF Remote Control
 - WIFI Module, through Mobile APP.
 - GSM Switch, where no WIFI is available.
 - RFID Fast Tag.

SITE INSPECTION

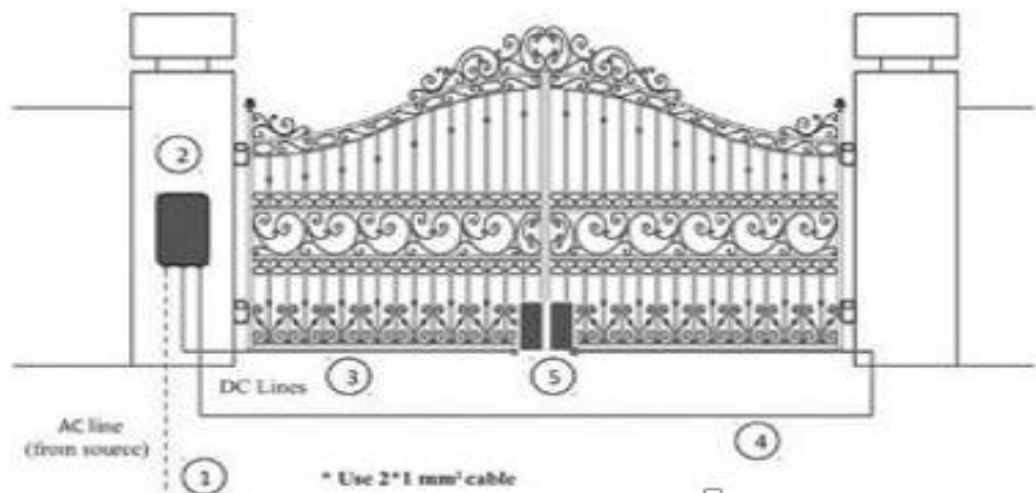
Before begin to install the Automatic System, please check following

1. See that, the difference between Ground Clearance while Open and Close status is not more than 30 Mm.
2. See that ground is smooth and regular. Alteration may be made, if required.

LAYOUT of the Components



Motor & wiring Layout:

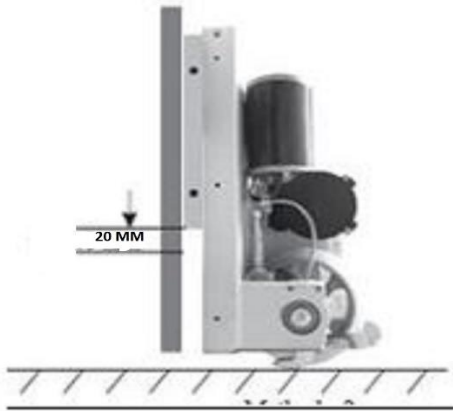


- 1.Single Phase Ac Power input
- 2.Control Box.
- 3.DC Line to Motor – 1
- 4.DC Line to Motor 2
- 5.Gate Motor

INSTALLATION:

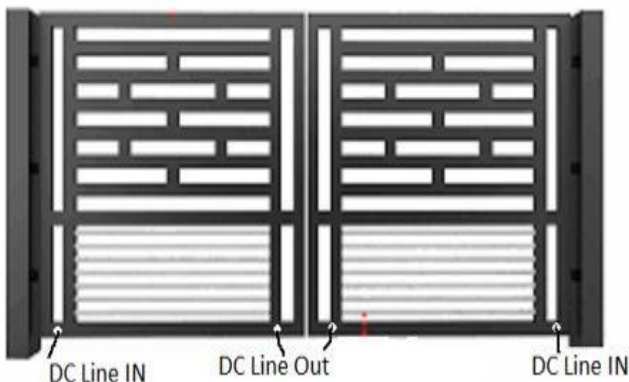
1. Mounting of the RETAINER Plate (Motor)

Keep both gates CLOSE. Keep Motor close to gate tip, vertically. Mark the top position of the Retainer Plate, on the Gate. Unscrew 4 Screws between Retainer plate and Motor Body. Keep the retainer plate 20mm down, of the mark and spot weld.



2. WIRING Work.

1. Make two holes on each gate bottom frame, as shown in the picture for laying the DC Line from Control Box to each Motor. If the pipe is solid, spot weld a 19 mm square pipe to lay the cable.

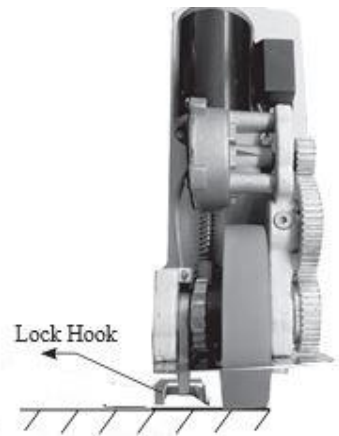
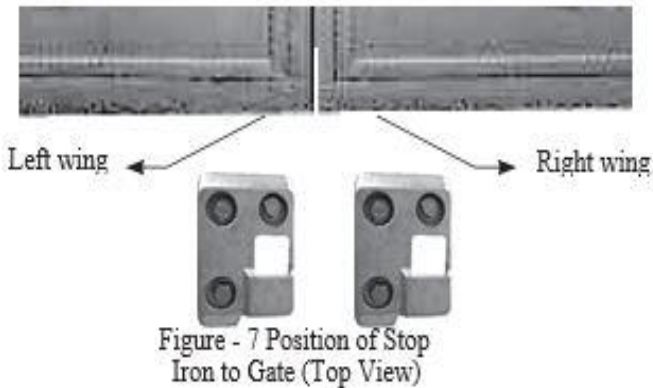


Lay 2 core cable of 1.5 Sq mm from Control Box to each Motor. Make use of the steel flexible conduit, where the cable twists and enters gate.

1. Mount the Control Box at a suitable location, for easy wiring and adjustments.
2. Provide 230V Single phase AC line to the Control Box.

INSTALLATION of CLOSE Limit.

Attach both Motors to the Retainer Plates. Using release Allen Keys, release motor gear. Keep Gates in CLOSED Position. Place the stopper plate under the motor so that Centre line of the Lock plate is in aligned to the lock hook. Mark, drill fasten with expansion bolts.

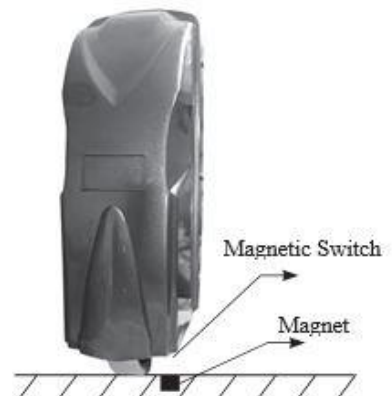


3. INSTALLATION of OPEN Limit:

Keep gate in required OPEN status.

Drill a pit in the ground, to accommodate the magnet.

Fix magnet as seen in picture.



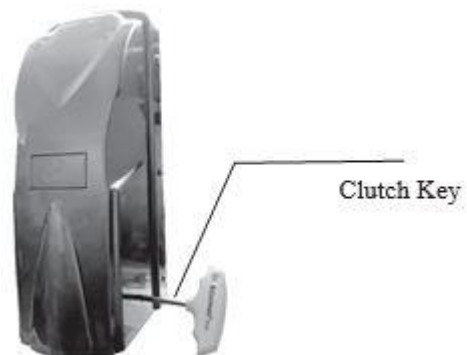
4. MANUAL RELEASE

Two Allen keys are provided for Release the Gear, to facilitate manual operation.

Insert the Key, in the side window, turn Clockwise

5 turns. Gear will be released and the gate can be moved manually.

To load the gear, insert the same Keys, and turn Clockwise 5 Turns.



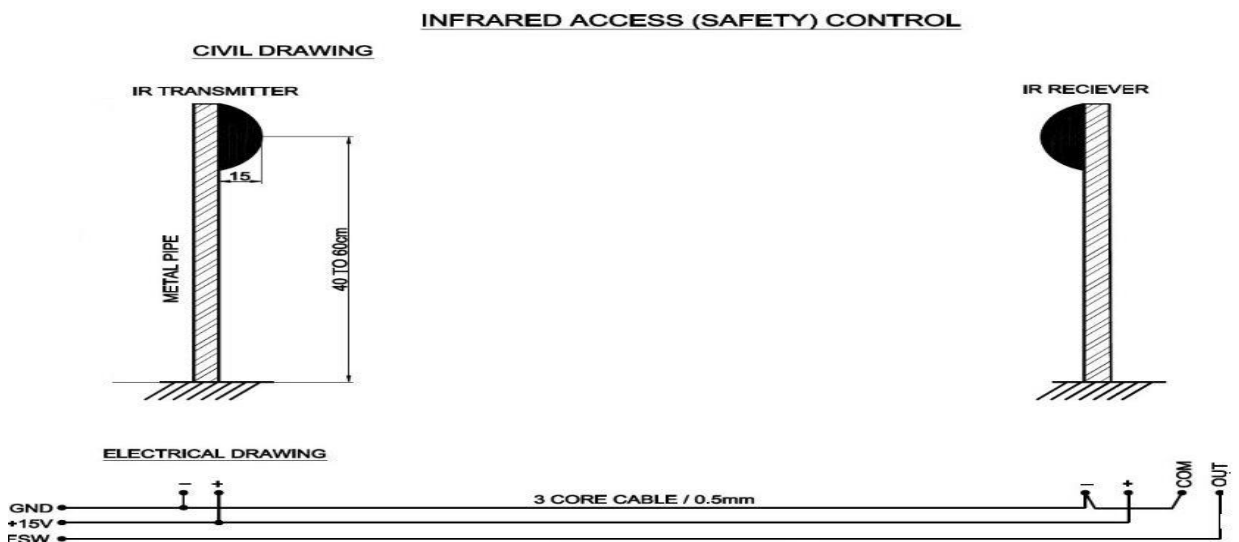
OPERATION & COMMISSIONING

1. Do the Electrical connections.-230VAC to the Control Box POWER point.
2. Connect 2 core (1.5 Sq MM) cable connections from control Board to each Motors.
3. Before activation, Declutch motor, manually move the gate to open /Close. Verify smooth run
4. Keep gate in the middle. Engage the gear, using the Release keys provided.
5. See that in the first operation Gate opens, and closes in Open limit. If closing, reverse the polarity of motor wiring.
6. Please follow Control Board settings for Motor torque, Fast Time, Motor Delay and auto close.

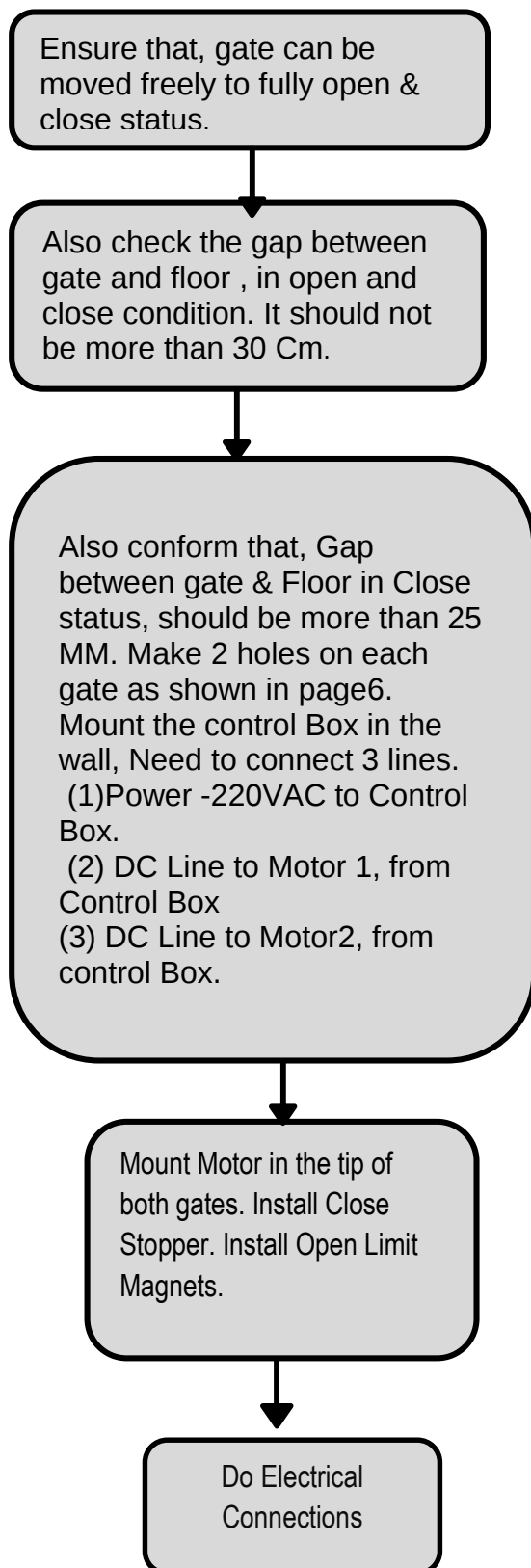
MAINTENANCE:

1. Keep the running path clean.
2. Once in 6 months, open the ABS Cover and grease the gears.

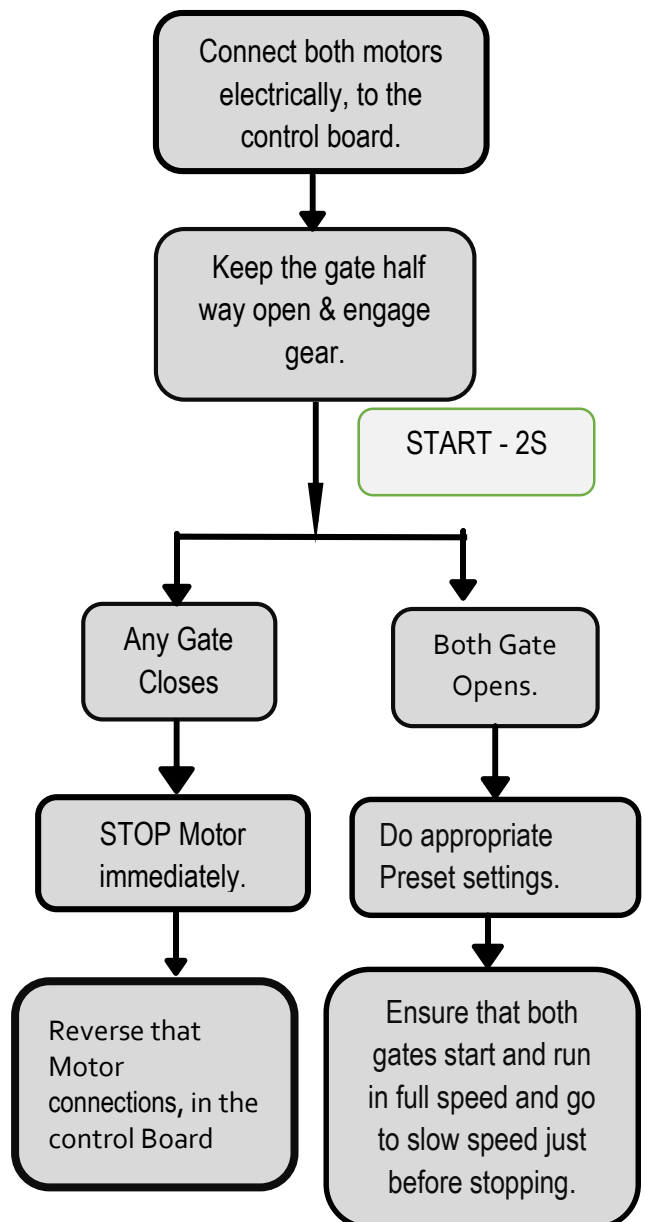
IR Safety Sensor Layout:



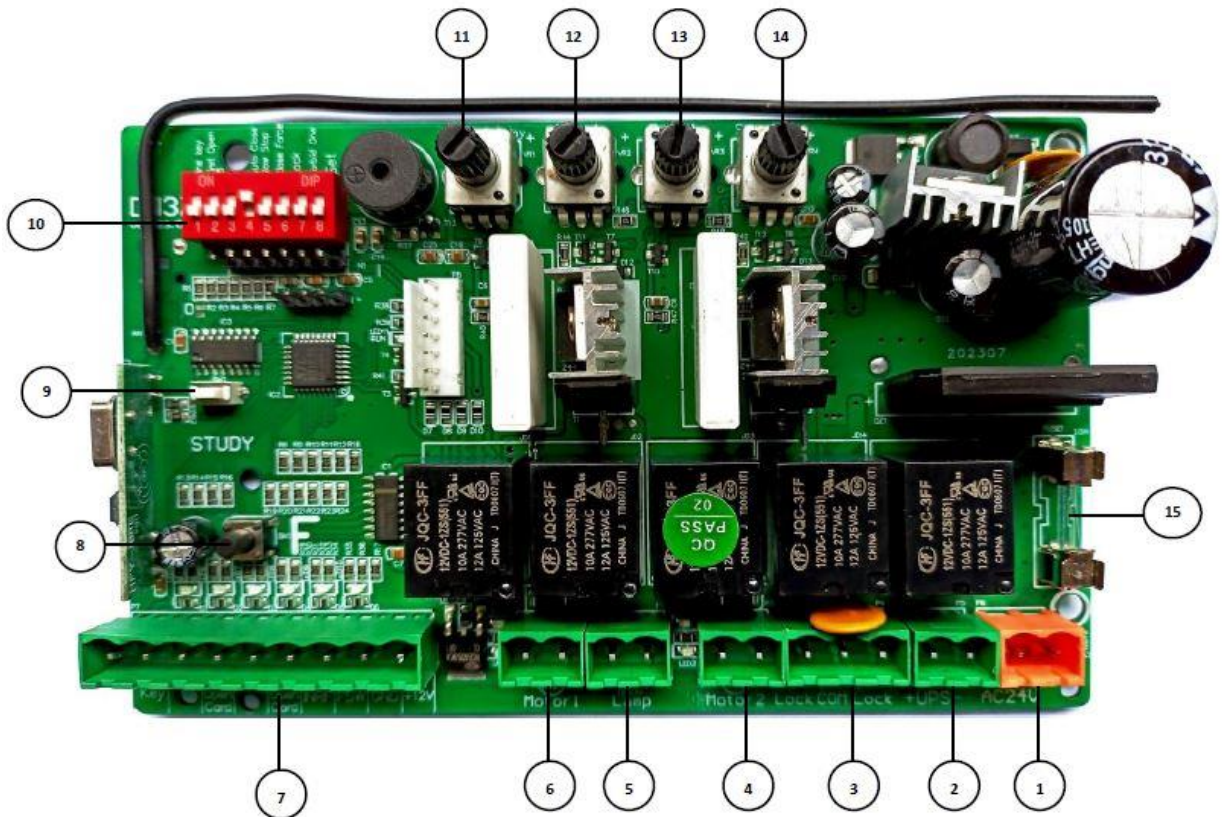
INSTALLATION- Auto Gate



OPERATION SETTINGS- Auto Gate



CONTROL BOARD SETTINGS:



CONTROL BOARD Connections

1. 220 VAC power input.
2. UPS Connection for Battery Backup.
3. Lock for both Electric (24V) and EM.
4. Motor 1 connection
5. Flash Light.
6. Motor 2 Connection
7. Multifunction Wiring Interface.
8. F – function Key
9. Study Button for Remote Learning.
10. DIP Switches
11. Motor 2 – Delayed Closing
12. Motor 1- Running Force adjustment.
13. Motor 2 – Running Force adjustment.
14. Closing LOW Speed setting
15. Fuse-5 A

Multifunction Wiring Interface:

Single Key : Alternate shorting with GND (COM), Open / Close both Gate.
Double Open Card : Open Command for Dual Gate, when shorting to ground.
Close : Close Command for Single & Dual Gate.
Single Open Card : Open Command for Single Gate, when shorting to Ground.
INRF : Grounding this, will STOP the Gate
FSW : Signal from IR Photocell, to open a closing gate on obstruction.
GND : Ground for IR Photocell.
+12V : +12V for IR Photocell.

FUNCTION DIP SWITCH SETTING & R.F.REMOTES

	OFF	ON
B1	Remote in single button control Mode	Remote in 4 button control mode
B2	Active Remote	Lock the Remote using Lock button on the remote. To unlock press
B3	Auto close OFF	Auto Close Enable. To set Delay time, keep B8 ON. Each press on Function button(F), give 1 sec delay time. Put B8 back to OFF.
B4	Slow Speed OFF	To set slow speed operation.. Keep Doors closed. Keep B8 ON. Then press (F) function button once.(Motor1 open gate-Motor2 Open Gate- Motor2 close gate-Motor1 Close gate) Put B8 back to OFF. Buzzer rang long.
B5	Return on Obstruction-OFF	Return on Obstruction ON
B6	Electric Lock	Magnetic Lock
B7	Remote Lock	Electric Lock – 24 V
B8	Programming OFF	Programming ON

RF Remote Control:

REMOTE CONTROL



There are 4 Buttons on the RF Remote.

2 Ways of using this Remote:

1. 4 Button Active mode
2. 1 Button Active mode- B1 on the Dip Switch to be kept ON.
Single button do OPEN- CLOSE – STOP

4 Button Active Mode: B1in Dip Switch –OFF

1. Arrow outwards - Open Gate
2. Arrow Inwards - Close Gate
3. Square - Stop
4. Lock - To Lock the Remote, Keep B2 on Dip switch ON and press this Lock.. To unlock press Square (Stop). Then keep B2 –OFF.

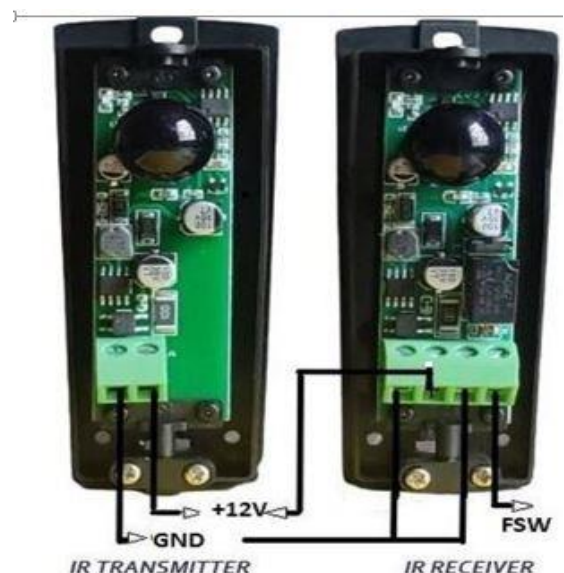
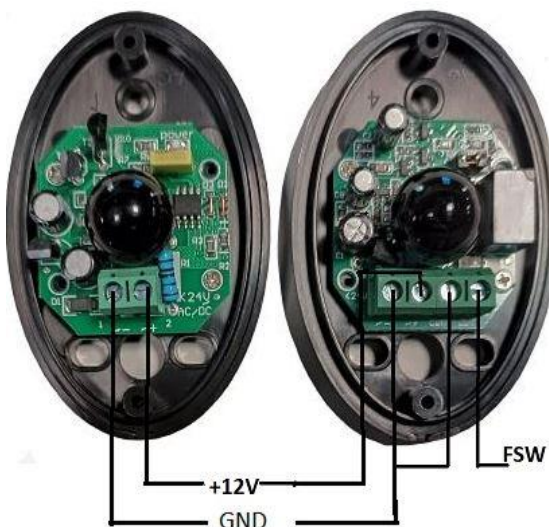
Erasing the RF Receiver: Keep press STUDY (7) button 8 Seconds – Beep sound – receiver erased all data.

Learning the RF Receiver: Press STUDY (7) button once – LED –ON. Keep press any button on the RF Remote. You can add maximum 300 Remote this way.

IR SAFETY PHOTOCELL

There are 2 components. Transmitter with 2 Terminal & Receiver with 4 or 5 Terminals. They are to be mounted at a height of 40 to 50 Cm from ground , in each pillar facing each other.

The output from the 4th Pin(NO) may be connected to FSW terminal on the control board.



Frequently Asked Questions.

1	Motor doesn't work	Check POWER. If Ok, Unlock both motors and call Service
1	Gate is not opening/ closing full	Grease the gate Hinges. Check the stability of mounting Clamps. Check the stability of Limit Switches.
2	Remote control not responding	Check for light in the remote. If mild replace the battery on the Remote- 12v alkaline. The life of the battery is expected to be one year.
3	Gate not responding to remote/ manual switch	Check Power and battery connection and condition. Call service
4	Any maintenance required	No, except keep the hinges clean and frequently lubricate.
5	No Response from System	This could be due to power /battery failure or Machine damage. Un- clutch both Motor Arm as shown in picture above. And move the gate manually open. Call for service

WARRANTY
Scope & Limitts

INTERGLIDE offers following warranty in respect of AUTOMATION SYSTEM supplied by us.

Every possible care and precaution have been taken to ensure quality in respect of the material and workmanship of the system supplied by us.

INTERGLIDE warrants the original purchaser of AUTO GATE SYSTEM for a period of

1	2	3
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Years from the date of purchase, the product shall be free of defects in material and workmanship under normal use.

During the warranty period INTERGLIDE shall, as its option repair or replace any defective part / product at your site, free of any charge.

No claim for repair will be entertained, unless the customer produces original OWNER's MANUAL

Warranty is not applicable in situation where

Unauthorized repair/ replacement has been carried out

Shifting / reinstallation of the system

Damage due to mishandling or no proper maintenance.

Periodic maintenance not taken care.

WARNING: Auto Gate System cannot prevent burglary. It is a supporting security system at your easy reach.

Name of Customer Address & Ph No	
Bill No & Date of Purchase	
Machine Model	

Seal

Sig

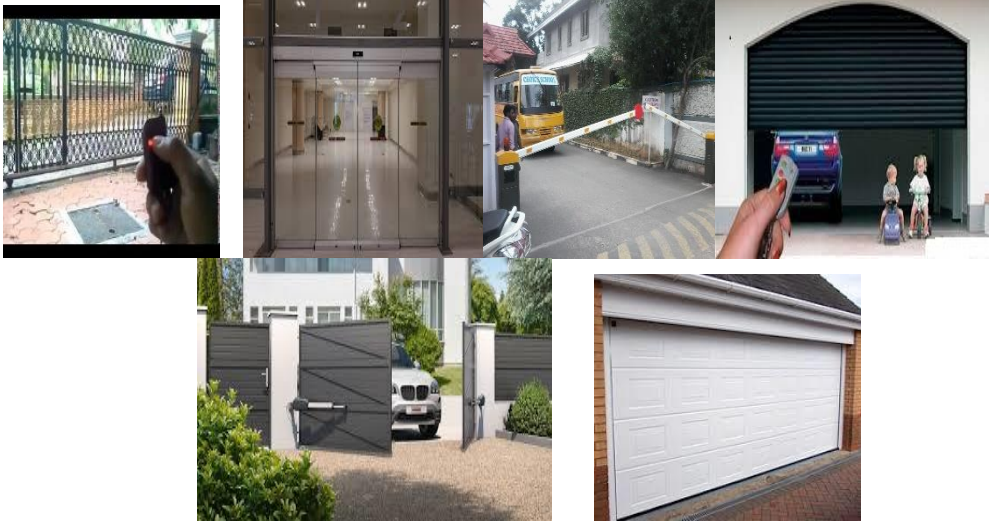
Frequently Asked Questions.

1	Gate is not moving	1.Check the Remote battery. 2.Make sure power is available. 3. Unlock the gear of each motor and call service
	Gate not opening / Closing fully	1.Lubricate gate Hinges. 2.Check for any obstruction in the path.
2	Remote control not responding	Check for light in the remote. If mild replace the battery on the Remote- 12v alkaline. The life of the battery is expected to be one year.
3	Gate not stopping in OPEN Limit	1.Check for magnet, mounted on the ground. 2.Open limit Sensor may be bad. 3.Call service
4	Any maintenance required	No, except keep the hinges clean and frequently lubricate. Keep the path of motor free from and obstacles.
5	No Response from System	This could be due to power /battery failure or Machine damage. Un- clutch both Motor Arm as shown in picture above. Release the EM Lock with the attached keys. Slowly move both gates manually open. Call for service

MAINTENANCE:

1. The running path of Motors, should be free from any external particles, like stone or leaves.
2. Recommended to grease the Gears in every 6 months. Open the front cover of Motor assembly and grease the spur gears,

Products from this group



INTERGLIDE

INTERGLIDE AUTOCONTROLS

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