

INTER GLIDE



TRAFFIC BOOM BARRIER

TBB302 / TBB302F / TBB404 / TBB606
OWNERS 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.

Director

INTERGLIDE AUTOCONTROLS

INSTRUCTIONS

SITE INSPECTION

Before begin to install the Automatic Boom Barrier System, please check following.

See that Strong RCC foundation not less than 350 x 300 x 500(D) MM is given for mounting the system.

Make sure, there is no obstruction for the BOOM to open fully. If cannot avoid the obstruction, you can opt for Foldable version.

Single Phase Electric Supply (1.5 Sq. Mm Cable) with proper Earthing should be given.

STANRARDS PACKINGS

Boom Barrier Motor with Control board	- 1 No
Mounting Brackets	- 1 Sets
Remote transmitter	- 2 Nos
Door Open Keys	- 2 Nos
Aluminium Boom Of desired length	- 3 to 6 Meters
IR Photocell	-1 set

OPTIONAL:

Flashing LED Light

Loop Detector

RFID Reader with Antenna.

ANPR (Number Plate Recognition System)

Boom Barrier: Galvanized and PU Coated 2.0 MM Mild Steel Cabinet. Motor with gear assembly to open / close the gate. It contains the control board and its power supply.

Remote Transmitter: This is hand held remote switch to signal open/close operation. Range of the transmitter without any obstruction is approximately 60Mtrs.

Door Open Keys: This key is used to open the door, and to manually up the barrier, in case of Power failure or system failure.

Aluminium Boom: Traffic White Powder Coated with reflective Strip on full length. Length of greater than 4 Meters are of Telescopic Type.

IR Photocell: Any obstruction while closing, reverses the gate.

Flashing Light: LED 5054 / 120 no's per meter flashes in full length of the boom.
In Close Status - LED Flashes at 50 % cycle.
While Open / Close - LED Stable- 100% ON
In Open Status - LED Flashes at 20 % Cycle.



FENCING BARRIER

FOLDING BARRIER

RFID READER with Controller:

This is an Auto Entry Detection System.

All the resident vehicles have to first register with the management committee and get a RFID tag placed on their vehicle. An RFID reader is installed at the entrance of the community. When a car enters the community, the RFID tag on the vehicle is read by the reader and the boom barrier opens, letting the vehicle in. In case of a vehicle that is not registered with the community, the barrier will not open.

FEATURES:

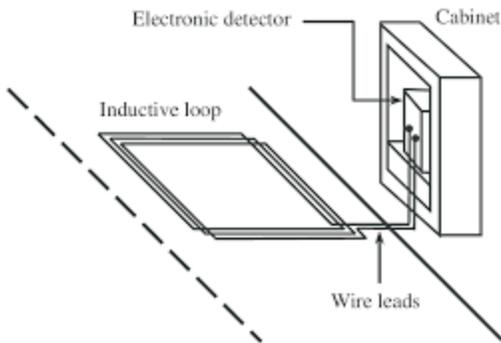
1. Various models available with detection range from 3 to 12 Meters.
2. Provision to delete an issued card, thereby cancel his free entry.



LOOP DETECTOR:

An Electro Magnetic loop is laid on the floor of approximately rectangular size of 2000 x 500MM. Any Vehicle / Metal object passing over it will get detected and activate the barrier.

A person will not get detected by Loop Detector.



TRAFFIC BOOM BARRIER:

Automatic Boom Barriers offer efficient security at the exit and the entry points of Factories, Office/ Residential Complexes, Condominiums, Parking Lots, Toll Tax Plazas or any road - way entry where medium to heavy traffic is expected.

INTERGLIDE Boom Barriers are designed for heavy-duty operation with sleek and modern looks.

The barrier is activated either by a single touch push button or remote control. However its electronic control panel is designed to accept signals from various controls and safety accessories such as Beam sensor (optional), Magnetic card reader (optional), computer, etc.

SPECIFICATIONS:

Electronic box working temperature: 40°C ~ +75°C

Power : 220V±10%, 50HZ

Rated power : 250W / 50W for 24V DC Motor

Barrier Length : 2 Mtr to 6 Mtrs

Opening time : 1.5 sec to 6 secs.

Remote control distance: ≥50m

Net weight : 65kgs

Boom Arm : 87 x 48 x 1.2 MM in Aluminium Alloy 6063 with
LED Strip (optional).

1. Manual release device to operate the barrier when power failure
2. Barrier motor with die-casting aluminium alloy for easy heat dissipation
3. Automatic reversing when the barrier boom meets the obstruction
4. Auto closing realization through menu setting on the control panel
5. The barrier works well with infrared photocells, loop detector card readers, ticket dispensers, manual switch(wire control), traffic light
6. UP and Down position limit switch
7. Loop detector terminal (Optional)
8. Cabinet : 2 MM Powder coated GI sheet reinforced
9. IP 55 Rating

If AUTO - CLOSE function is valid, when a vehicle pass through the sensor range, the gate will close automatically after delay time. The delay time can be adjusted from 10 secs to 40 secs.

	TBB/DC/Fold	TBB 301 /401	TBB606
Motor	24V/50W DC	220V/250W AC	220V/250W AC
Operating Time	2to 3 Secs	4 to 5 Secs	6 to 7 Secs
Length of Barrier	2 to 3 Mtr	3 to 4 Mtr	4 to 6 Mtr
Control Drive	Microprocessor based	Microprocessor	Microprocessor
Radio Transmitter	2Ch/433 MHz	2Ch/ 433 MHz	2Ch / 433 MHz
Audio/Video indication	Optional	Optional	Optional
Protection Class	IP55	IP 55	IP 55

Standby Devices & Settings

RF Receiver:

It is set such a way that, alternate pressing, do Open / Close action.

Erasing: Press the LEARN Button on the receiver Module 8 Times. Then the LED flashes for 7 times, showing all learnt data are erased.

Learning: Press the LEARN Button once, so that the learn LED Blink.

Press and Hold any button on the Transmitter, so that the Led flashes 3 times.

Now it is learnt. Repeat with other Remote transmitters.

INSTALLATION

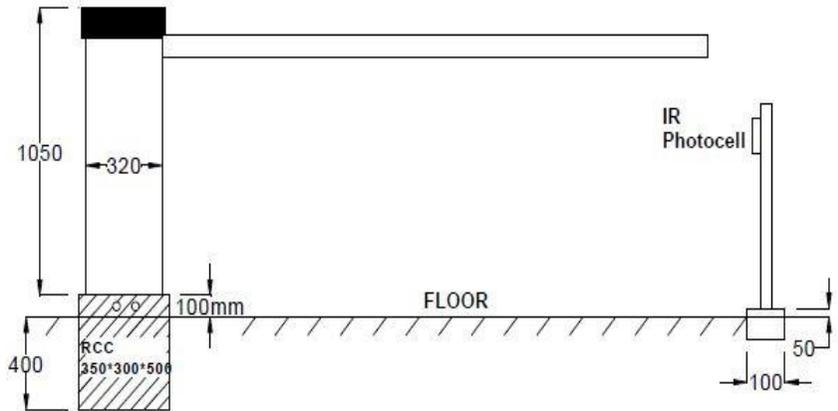
Mount the Boom Barrier system over the RCC foundation.

Screw with 12 MM Anchor Bolt

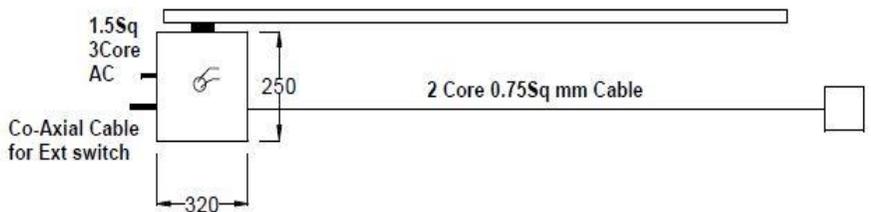
Mount the IR Photo sensor as shown on the fig

CIVIL WORK

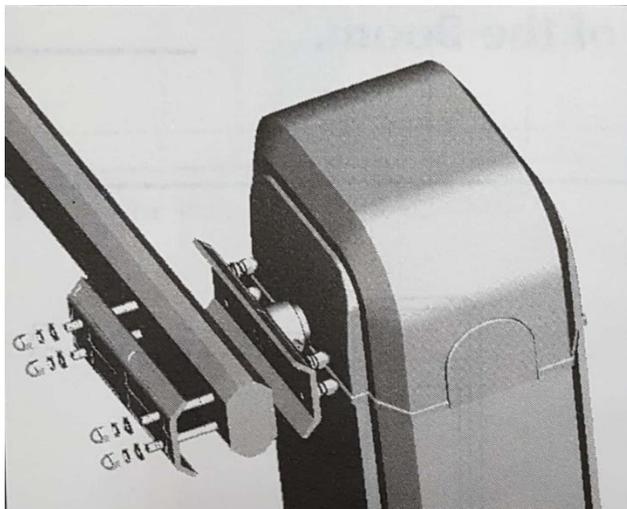
All dimensions are in mm



ELECTRICAL WIRING



1. 3 core 1.5 sq. mm cable from Security cabin to the Boom Barrier.
2. Co – Axial (with centre core and external shield) from Cabin to Boom Barrier, to attach external Switch activation.
3. 2 Core cable from Boom Barrier to IR Photocell.
4. Connect LED Strip if added.
5. Connect Loop detector if added.

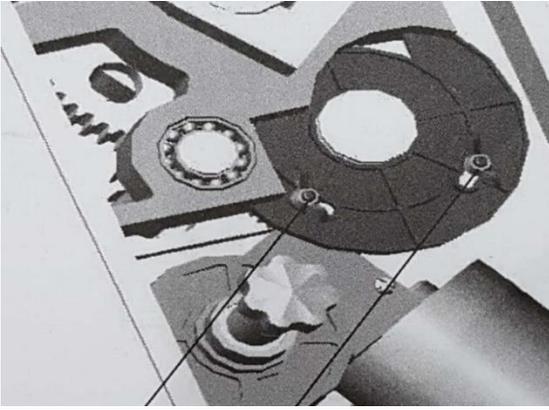


Barrier is supplied to you with the magnetic Limit switch and mechanical limit, which are set to allow optimum boom movement.

PIN 8 is used to complete a close command, even if obstructed by IR Photocell or Loop detector. When the obstruction is cleared, the barrier closes.

Please see that, Power is turned OFF/ON after each DIP setting.

LIMIT SETTING:



Both Open and close Limit can be adjusted using these Screws. Adjust the limits, such that, there is no bouncing on the boom, while going to rest.

FINE SETTING:

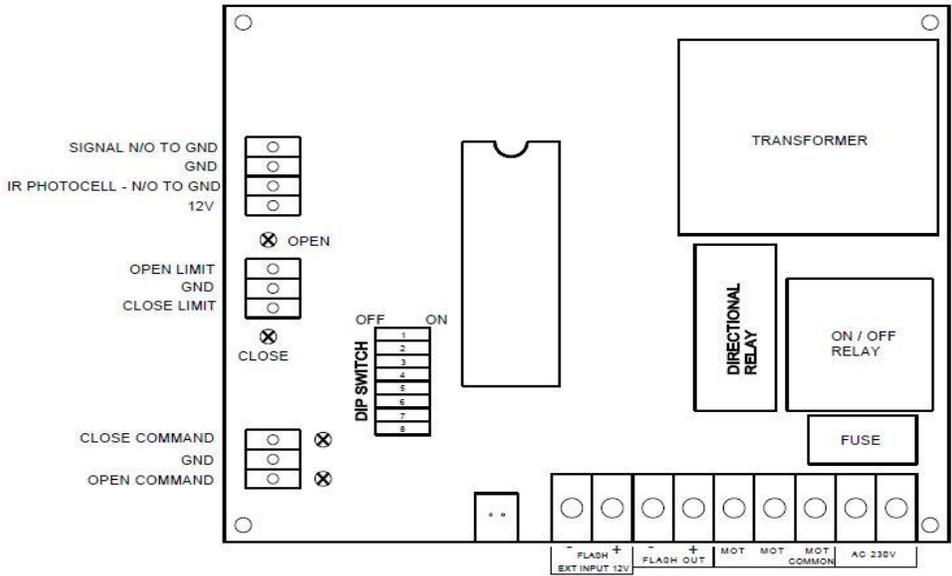
In closed status, the boom should be exactly horizontal. Fine adjustment is possible as shown

Safety Features

The DC control Board is equipped with proper Battery charging circuit and Overload detection circuit. Overload detection circuit will detect any obstruction while working or when limits are reached and cut off the motor power.

The sensitivity of the motor can be set adjusted with POT1 .Clockwise turning will increase load. It should be adjusted such that motor does not trip due to its inherent friction and load. Try re- adjusting the POT and make sure that the system work smoothly.

CIRCUIT LAYOUT:



SETTING THE DIP switches:



DIP Switch:

	1	2	3	4	5	6	7	8
OFF	RUN Time	RUN Time	RUN Time	RUN Time	Auto Close delay time. 20Sec	Auto Close delay	Auto close Disable	Auto Close Disable(On Photocell obstruction)
ON					40 Secs		Autoclose Enable	Auto Close Enable(On Photocell obstruction)

TROUBLE SHOOTING

NO	Trouble	Cause	Shooting
01	Motor Does not work	-No power supply -Fuse Break -Controller / Motor failure	-Check Power -Change Fuse -Call Engineer
02	Can Open. No closing	-Photocell is blocked -photocell damage - Check Limit switch	Check photocell
03	Cannot locate accurately	-Limit switches need to be adjusted	Check
04	Push OPEN. But Motor Closes	Motor connection to be reversed.	
05	Motor work. Not the Boom	Compression spring is dead	Replace Spring

Frequently Asked Questions.

1	Gate is not opening/ closing full	Grease the gate Hinges. Check the stability of mounting Clamps
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. Release the EM Lock with the attached keys. Slowly move both gate manually open. Call for service

Periodic Maintenance:

Check the stability of the Motor Arm mounting Clamps.

Check the connection cables soundness.

WARRANTY

Scope & Limits

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

Main products from this group.

AUTOMATION

Auto Swing Gate Opener
Auto Sliding Gate Opener
Boom Barrier
Roller Shutter Opener
Car Park Management System
Auto Sliding Glass Door
RFID Access Control



INTERGLIDE AUTOCONTROLS

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