Warranty continued

Any suit or action arising out of or relating to this Agreement or the breach thereof, must be commenced within one (1) year after the date of shipment of the goods to the Buyer. The foregoing shall not limit the time within which any suit or action must be brought to collect an amount agreed to be paid by Buyer or to enforce a judgment in favor of Seller or to collect any amount awarded to Seller.

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P/N for this manual is 95-1030



# Owner Manual

## MySpot™ 500 V2a

### Remote Controlled Parking Barrier

***Congratulations!***

MySpot 500 rugged construction, careful design and attention to detail will provide you with years of service and enjoyment. However, like all things mechanical and electronic, proper installation and use are essential in order for the product to perform as designed.

We suggest that you keep this manual in the car's glove compartment, The manual will refresh your memory how to use the barrier, as well as show you how to recognize when the batteries need replacing and how to go about it.

MySpot 500 is installed in the middle of the space to block access to a parking space.

On command, the barrier is rotated down away from the incoming car to allow access to the parking space. A second command will raise the barrier to the vertical position where it guards the space.

If external damage to the packing is evident, notify the carrier immediately. Shipping damage is not covered by the manufacturer's warranty.

**WARNING**! Barrier may cause pedestrian or users to trip over it. Please install and provide warning signs accordingly. Note that Public Liability should be in place.

# Operating the Barrier


The MySpot 500 is provided with 2 handheld remotes ("fobs") that have been factory programmed to control this individual barrier. Only button #2 on these remotes is programmed to control the barrier.

The fob will control the barrier from a distance of 1 foot to 40 feet (0.3 meter to 12 meters). You need to hold the fob horizontally and face the front of the barrier (the "Reserved" yellow strip on the housing of the barrier).

Pressing button 2 on the fob will raise the barrier if it was down, or lower it if the barrier was up.

If the barrier hits resistance on its way up, it will stop and reverse itself to bring the barrier back down. If the barrier hits resistance on the way down, it will stop and await a new command. A new command will direct the barrier to continue going down.

**Low Battery Warning:** Once the unit detects that the battery is nearing discharge, the barrier will "hesitate: for one second at 45 degrees every time it is commanded to go down. After 50 such warning cycles, the barrier will refuse to go up any further, until the batteries have been replaced.

**Frequent Questions**:


- To add remotes, see page 4
- To erase the memory and remove all links to all remotes, see page 5
- To replace the batteries see page 9
- For troubleshooting see page 10


# Defense

***What happens if the barrier is forced down from the upright position?***

The MySpot 500 is designed to absorb such external forces and yield if they exceed a dangerous point. The barrier will return on its own to the upright position once the external force has been removed.

The Defense works in both directions — if the barrier is forced towards the back of the parking space, or if it is forced towards the front of the parking space.

**WARNING**: **The internal defense spring can store damaging energy when the barrier is abruptly released.**



**FCC** THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

**CE** HEREBY, DESIGNATED PARKING CORP., DECLARES THAT MYSPOT 500 IS IN COMPLIANCE WITH THE ESSENTIAL REQUIREMENTS AND OTHER RELEVANT PROVISIONS OF DIRECTIVE 1999/5/EC. A COPY OF THE STATEMENT OF CONFORMITY CAN BE FOUND ON THE COMPANY'S WEB SITE.

*Rudor M. Teich, President*

**LIMITED WARRANTY**

Except as otherwise provided, Seller warrants for a period of twelve (12) months from the date of shipment that the goods supplied to Buyer shall be of good materials and workmanship. Seller makes no warranty with respect to the following: (a) materials not manufactured by Seller, the use of which is suggested by Seller's general recommendations, application or installation procedures, or otherwise; (b) goods sold by Seller to Buyer for other than resale; (c) goods which have been subject to abuse, accident, alteration, misuse, negligence or alterations; and (d) all display items sold by Seller to Buyer.

**THE FOREGOING WARRANTIES ARE EXCLUSIVE, AND IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WRITTEN OR ORAL WHETHER IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, USE, OR INFRINGEMENT. SELLER DOES NOT ASSUME, NOR AUTHORIZE ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT, ANY OBLIGATION OR LIABILITY OTHER THAN AS EXPRESSLY SET FORTH HEREIN.**

## Limitation of Remedies.

Seller's obligations under the above warranties (contained in Section 10) are conditioned upon Seller actually receiving notice from Buyer of the alleged defect within the warranty period and the existence of an actual defect in the goods as revealed upon examination by Seller. The sole liability of the Seller for breach of such warranties shall be to provide Buyer with replacement for, or repair of, defective parts in the manner provided herein. This exclusive remedy shall not be deemed to have failed of its essential purposes so long as Seller is willing to repair or replace the defective part(s) in the manner prescribed herein.

Seller shall not be liable for any labor or other expenses incurred by Buyer in the removal, repair or replacement of the goods or any component part claimed to be defective, nor shall Seller be liable for any expenses incurred by the Buyer in order to remedy any defect. Seller's acceptance of shipped goods shall not be deemed an admission that such goods are nonconforming under the above warranties. If the Seller finds that any goods are not defective, such goods will be reshipped to Buyer at its expense and Buyer will be charged for shipping charges incurred by Seller.

**Under no circumstances and in no event will the Seller be liable for any personal injury or property damage, loss of profits or revenue, loss of business, consequential, incentive, punitive, special or contingent damages or expenses of any kind incurred by Buyer or any third party, based upon warranty, contract, strict liability, negligence or any other cause of action arising under this Agreement or in connection with the product or services provided hereunder even if the other party or any other person has been advised of the possibility of such damages The discharge of Seller's warranty obligation hereunder shall constitute fulfillment of all liabilities of Seller to Buyer, whether based on contract, negligence or otherwise. The remedies set forth herein shall be the exclusive remedies available to the Buyer and in lieu of all other remedies, and the liability of Seller, whether in contract, in tort, warranty or otherwise, shall not exceed the price of the goods sold, supplied or furnished by Seller which give rise to the claim.**

## Replacing remote's batteries

When the batteries in the HT remote control approach their end-of-life, the HT will signal the condition by delaying the transmission of a command. The green indicator on the remote control will flash for a few seconds, before the normal pattern of turning solid for 2 seconds (while it sends the command) takes place.

To replace the batteries, open the two small Philips screws on the back of the unit. Replace the 2 Lithium button batteries with CR2016 batteries. Observe polarity! Check operation of the indicator before closing. If OK, close with the two screws.

# Troubleshooting

**CONTACT US for assistance and diagnostics 1 973 669.8214**

**Barrier Does not Respond**

When you press the remote, watch the front panel of the base of the barrier. If the red LED is flashing in response to the command, it means that the remote is not paired with the barrier. See page 4 for pairing procedures.

Another cause for no response can be that the barrier batteries are run down. This however will be preceded by 50 activations where the unit indicated low battery. See page 2.

**Barrier does not rise/drop fully**

This is an indication that there is external resistance that blocks the movement of the barrier, or causes the barrier to move slower than usual.

A possible reason for slow movement or failure to reach the full up and down positions may be due to the barrier being bent/ misaligned (after a car bumped into it).

**Barrier does not lock in the Up position**

If the barrier moves properly and reaches the vertical position, but it offers no resistance against push=back at that position, there may be a failure of the internal barrier lock.

The base housing assembly needs to be sent to the factory/ distributor for repair with the 2 remotes. Ask for a replacement unit if the unit is under warranty.



# Remote's Features

The HT (Hand Transmitter) remote, supplied with the MySpot 500, works closely in conjunction with the '500 to offer an array of features unique in the industry. In this section we cover some of these features.

**Why 3 buttons?**

Each button on the HT remote control generates an individual code. That allows one remote to control 3 individual MySpot 500.

The HT also supports a 2-button mode of operation. In the 2-button mode, 9 MySpots can be controlled individually.

**1 or 2 Button Code?**

The HT is shipped in the mode where only one button is required to be pressed. For applications where more than 3 adjacent barriers need to be controlled, the HT can be set to a two-button mode. Up to 9 adjacent barriers can be individually controlled. A command is sent only after 2 buttons are pressed in sequence (e.g. button 2 then button 1).

To program the HT remote to the 2-button mode, or to return it to its 1-botton mode, see page 5.

**Pairing**

Paring is a procedure whereby a remote is added to the list of devices that are authorized to control the barrier. It is similar to the procedure used to pair your Smartphone with your car for hands-free operation.

**Toggle vs. Discrete Commands**

Toggle commands instruct the barrier to alternately go up and go down. This is the standard configuration for the barrier and the HT.

Toggle commands are a simple and effective to control the barrier when it is in line of sight. You know that if the barrier is down and you send a command, the barrier will go up, and vice versa.

There are applications where Discrete commands are preferred. The commands are Up and Down. If one sends an Up command and the barrier is up, the command will be ignored. Likewise, when the barrier is down, a Down command will be ignored.

Discrete commands are available when using the PK250 long-range transmitter.

# Pairing Procedure

Pairing links a remote to the barrier. When an un-paired remote sends a command to the barrier, the barrier will not respond to the command as this command has not been authorized. The red LED on the front of the barrier will flash for 1/2 second to acknowledge the signal. We refer to un-paired but otherwise valid signals as RED commands.

When a paired command is received, the green LED will flash. We refer to these as GREEN commands.

## Adding Remotes

Paring a new remote is a 4-step procedure. It requires a previously paired HT and the new remote to be paired. We refer to the pre-paired remote as the GREEN remote and to the new one as RED remote.

**Preparations:**

1. Bring the barrier down using the Green remote
2. For the duration of the pairing procedure, stand on the barrier to prevent it from rising
3. Each step must follow its predecessor within 5 seconds. If the time was exceeded, the paring sequence will be aborted and the red LED will flash once.
4. If the step was performed within the required time and in the proper sequence, the Green or Red LED will flash a number of times indicating the completed step count (1 to 4).

**Step 1**: With the barrier down, stand on the barrier and send a Green command (from the pre-paired HT). The green LED on the barrier housing will flash once.

**Step 2:** As soon as the LED on the HT has turned off, send another Green command (from the pre-paired remote). The green LED on the barrier housing will flash 2 times.

**Step 3:** As soon as the LED on the "green" HT has turned off, send a Red command (from the un-paired remote). The red LED on the barrier housing will flash 3 times.

**Step 4:** As soon as the LED on the HT has turned off, send a Green command (from the pre-paired remote). The green LED on the barrier housing will flash 4 times.

The new remote has now been paired and can control the barrier just like any "green" remote.



# Batteries Replacement

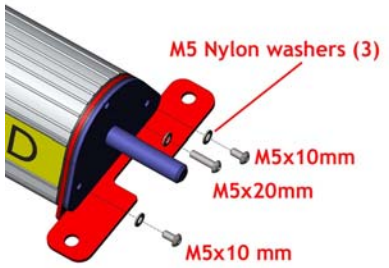
## Replacing Barrier's Batteries

The 5 batteries should provide 2 to 3 years of life under residential operating conditions. When the batteries approach their end-of-life, *MySpot 500 will stop for 1 second midway on its way down*.

If the batteries are not replaced before they are completely exhausted after 50 additional operations, the barrier will accept one last command and will stay down .

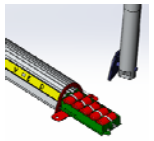
**To replace the batteries:**

1. Loosen the right hand end cap by removing 3 hex screws using a 3mm hex wrench




2. Rotate the barrier as shown

3. Pull out the battery holder as far as it goes. Replace batteries with 5 fresh D alkaline batteries.



4. Observe the polarity of the 5 batteries as you insert them. Failure to do so will damage the electronics.
5. Gently push back the battery holder until it is fully inside the housing.
6. Rotate the end cap with the barrier back to its place at the end of the housing. Make sure that the gasket is positioned and aligned between the end cap and the housing. The alignment needs to be perfect to prevent water damage.
7. Use the longer (10 mm) screw for the top hole, using the nylon washer under the screw head. Likewise insert the 2 short 10 mm screws into the other 2 holes in the bracket using the nylon washers. Tighten all 3.
8. **Failure to use the 3 nylon washers will allow water to seep into the housing and damage the electronics**.

## Installation on Asphalt

1. Do not attempt to use the expansion anchors that are provided in the kit for installation on asphalt. The expansion anchors are **guaranteed** to loosen up in a matter of hours.

2. Use our SP10 asphalt anchors. These come in Metric (SP10-M8 with a M8 thread) and Imperial (SP10-38, with a 3/8" thread). Note that you can not use the bolts from the expansion anchors in the kit with these asphalt anchors due to the length of the bolts used in the expansion anchors.
3. The SP10-38, stocked in the USA, come with a suitable bolt and washer pre-installed.
4. If you intend to use the SP10 -M8, you will need to provide your own washer and bolts.
5. Drill a 22mm (7/8") hole, 150 mm (6") deep.
6. Clean the area
7. Prepare the EPX2 grout (part number 82-5002). You will need about one half of an EPX2 bag per hole.
8. To activate the EPX2, add about a 1/4 of a cup of water to the bag and mix thoroughly by kneading the bag.
9. Use the bag to pour the grout into the hole, filling it to the top.
10. Press the anchor into the hole until it is flush with the asphalt. (The head of the anchor will rest on the asphalt.) Do not delay this step as the grout cures within 10-15 minutes.
11. Wipe any excess grout from around the anchor.
12. 15 minutes after the last step, remove the bolts from the anchors and install the barrier.



## Special Configurations

### Erase Memory (Boot)

The only way to delete remotes that were previously paired with the MySpot 500 is to erase all the paired remotes from the memory of the barrier. This is also the case when all the paired remotes have been lost, and a replacement remote needs to be added. This erasure is known as a "Boot".

Boot can be done by pressing an internal "Boot" switch.

**To access the Boot switch requires a full disassembly of the barrier housing assembly. It is recommended that this be done by a qualified technician**.

Boot can also be done remotely, using the PK250 keypad remote controller, but only if the PK250 was previously paired with the barrier. Another way is to pair a total of 16 HT. When the 16th is added, a boot occurs.

### Pairing After Boot

This procedure is only applicable immediately after the MySpot was booted. MySpot 500 are delivered with 2 remotes which have already been paired. If you need to add more remotes, see the procedure "Adding Remotes" on page 4.

To pair a remote after a boot, send two commands from the remote. The first command will be acknowledged as a RED flash on the LED in the housing. The next command will be acknowledged as a GREEN flash.

The barrier has now been paired with its first remote.

Please keep this remote in a safe place. It can be used to authorize additional pairing. However, if you have paired 2 or more HT with the barrier, any one of them can act to authorize additional remotes.

### Program 2 Button Mode

To place the HT remote control in the 2-button mode (where a sequence of 2 keys is required before a command is sent out):

- Press and hold buttons **1** & **2** simultaneously.
- After 5 seconds, the indicator on the HT will start flashing. Release the buttons. Make sure that the indicator continues to flash.
- Press button **2** and hold until the flashing indicator turns off.

To place the HT in the 1-button mode, follow the sequence above but as the last step press and hold button **1**.

**TEST**: Press any button once. IF the indicator responds immediately, you are in 1-button mode.

# Installation

**Gravel, Sand**

Mounting the barrier directly to gravel or sand is not recommended, as no anchor will provide adequate grip. A suitable concrete footing needs to be poured.

## Front or Middle?

MySpot 500 can be positioned in two distinct locations within the parking space – in the middle or at the front.

**Front mounting** means that the car drives in and parks *behind* the barrier.

A benefit of front mounting is that the barrier can to be used as a theft deterrent, raising it with the car parked behind it. The barrier should be installed 0.6 meter (2 feet) from the front end of the space, to allow the barrier to rise behind even a large vehicle. ***You do not want to install the barrier any closer to the end of the space than 0.6 meter because in the down position it would then fall outside the bay space.***

Installing the barrier at the front in multi-car parking areas will increase the likelihood that the barrier will be bumped by cars backing up from parking spots across the aisle and is not recommended.

**Middle mounting** means that the barrier will stay under the car while the car is parked in the space. The advantages of middle-mounting are:

- The barrier is further removed from dirt and debris pushed from the main access lane
- Cars making J turns are less likely to bump into the raised barrier accidentally
- Cars entering adjacent lanes are less likely to accidentally hit the barrier

When placing the barrier in the middle of the stall, the center line of the device should be about 1.5 meters (5 feet) from the rear of the stall.

## Standing Water

MySpot 500 is sealed to prevent water from entering the unit. However, the housing should not be exposed to *standing* water or ice as it will materially reduce the range of the remote control signal.

Select a spot for the housing that is slightly raised above the surface, or add a plate to raise it. Be mindful of the added height if low-clearance cars are to use the space

## Seasonal Removal

If you need to remove the barrier often (e.g. for snow removal), ask about our optional mounting plates.



# Installation on Concrete

1. While standing on one of the mounting ears of the housing, use the remote to bring the barrier up to the vertical position
2. Place the barrier at the location you selected.
3. Mark the 4 holes using the mounting ears as your template
4. If you are installing on concrete or other masonry surfaces, use the expansion anchors that are provided in the MySpot 500 kit.
5. Drill four 10mm (3/8") holes, 65mm (2 3/4") deep.
6. Push the anchor into the hole


until its head is flush with the surface, all the while keeping the bolt in the anchor.

7. Tighten the bolt a turn or two until the anchor bites into the concrete hole walls.
8. Before removing the bolt (to attach the barrier), make sure that no debris will enter the thread, so clean the area before you remove the bolts.
9. Remove the bolts, place the barrier assembly over the anchors and use the washer and bolts to secure the assembly to the anchors.
10. Tighten to make sure that the anchors are holding fast and to prevent the bolts from loosening up over time.

**What to do if an anchor rotates in its seat:**

If the hole is only slightly oversize, use a sharp point to hold the anchor against the wall of the hole and gently tighten the bolt. At some point, the expanding anchor will grip the walls of the hole. Turn the bolt another ½ turn to make sure the anchor is set.

If the hole is too large, you may need to fill it with concrete mix or epoxy, and then re-drill once the mixture has hardened. Inserting the anchor into the still-liquid epoxy may fill the threads and prevent the anchor from accepting the bolts. If the bolt is placed while the filler is not yet hardened, it may not be able to be withdrawn later.

You may also order DPC MA516 anchors, as these require a 16 mm (5/8") hole, and thus can be re-drilled in the same location.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the followingmeasures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.