

SIR. POST FITTING AND OPERATIONAL INSTRUCTIONS

The **SIR**. Post is a **S**olar Powered, **I**mpact Resistant, **R**adio Controlled Parking Post. The solar panel trickle charges a battery enabling the post to operate for long periods without sunlight. It is radio operated from a maximum distance of approximately 10 metres. If a vehicle bumps into the post in any direction the post will ‘give’ and an alarm will sound. Neither the vehicle nor the post should be damaged (depending on the force of impact). Installation is straightforward as the post is surface mounted, so there is no need to dig any holes. It is simply bolted to any solid surface on an incline of up to 45 degrees. When in the upright position its height is 700mm. In the lowered position the ground clearance is just 77mm. It takes around 10 seconds per operation. **NOTE:** Check with your car manufacture on the ground clearance for your vehicle. In most cases this should not cause a problem. It is important to remember that a flat tyre or heavy loads can considerably reduce the ground clearance of a vehicle. Always check before driving over the post and always drive over the post at a slow speed.

1. Position of post on drive/entrance

- 1.1. If installing the post on a slope, it must be installed facing uphill so that when the post is operated it lowers towards the upper part of the slope, coming to rest pointing up the hill, figure 1. (If unsure, use a spirit level to determine which direction is uphill).
- 1.2. If the site is level then the post can be fixed in whichever position is preferred. Ideally it should be positioned to get the maximum amount of sunlight on the solar panel.
- 1.3. Make sure the post does not obstruct public right of ways.
- 1.4. When fitting the post in a parking bay it can flatten into (A) or away from (B) the bay, figure 2. It is possible to leave the post down whilst a car is parked in the bay, however this may reduce the charge from the solar panel.
- 1.5. Should you require the post to be upright when a car is parked, you must ensure there is room for the post to move freely even when the car is parked in the bay, figure 2.
- 1.6. In very wide entrances two posts may be needed. A transmitter can be provided with two buttons, one button operating each post.

2. Preparing the post for installation

- 2.1. Carefully remove the post from its packaging.
- 2.2. Using the Safety Key in the fixing kit, remove the Safety Screws securing the solar panel to the base box of the unit. Connect the battery, BLACK wire to the BLACK terminal, RED wire to the RED terminal. Test that the post is operating, then disconnect the battery again.

3. Installation

- 3.1. The post must be bolted to a solid surface e.g. brick, concrete, block paving or tarmac over concrete. If the surface is not at least 100mm deep it will be necessary to provide a suitable concrete base to this depth.
- 3.2. Check there are no wires or pipes under the surface to be drilled, down to a depth of 100mm.
- 3.3. Lay the Fixing Hole Guide in the desired position on the ground and mark the four holes. Drill the holes using a 10mm diameter tipped drill, then secure the Post using the fixing screws provided.
- 3.4. Two of the fixing holes are found within the Solar Panel Box, underneath the solar panel. The other two are positioned under the base plate, see figure 3. To fasten these screws, place a foot on the Solar Panel Box so that you can push the post carefully over to one side. Use a small block of wood to hold it at an angle while the screw is fastened. Do the same on the other side.
- 3.5. Re-connect the battery and screw the solar panel back onto the base box.
- 3.6. If installing the post on an incline, it is necessary to adjust the ‘stop’ screw situated on the base cover (see figure 3, H) to ensure the post stops in an upright position. Making sure the post is in the lowered position, loosen the locking nut and turn the ‘stop’ screw clockwise a few turns. Re-tighten the locking nut and operate

the post. If the post drives beyond vertical, the screw needs to be turned clockwise. If the post does not reach the vertical position, then the screw has been over turned. Turn it anti-clockwise and re-try the post. Keep doing this until the post stops in the vertical position. Make sure the locking nut is tightened so the 'stop' screw does not move.

4. Operation

- 4.1. Press and release the blue button on the transmitter and the post will start to rise and stop automatically in the vertical position. Press the button again and the post will lower to the ground.
- 4.2. Pressing the button whilst the post is moving will stop it. The next press of the button will move the post in the opposite direction.
- 4.3. **Pressure cut off:** If there is something in the posts way when it is trying to raise or lower it will stop on the object and do a small reverse off it.
- 4.4. **Alarm:** If the post is hit an alarm will sound. To check this push the post in any direction with your hand, it will only sound whilst it is held over.
- 4.5. A remote alarm kit can be purchased which will transmit a radio signal to a remote receiver, which can be used to operate floodlights, CCTV etc. If a vehicle bumps into the post in any direction, neither it nor the post should be damaged (depending on the force of impact).
- 4.6. Any number of transmitters can be used on the one post when set to the same code.
- 4.7. The posts are set on a standard code. If you have more than one post it is necessary for them to be set on different codes. To change the transmitter code, unscrew the back of the transmitter and move switches 1-10 inside the transmitter case to a new code. Screw the cover back onto the transmitter. You then need to set the post to this same code. To do this remove the solar panel from the base box and locate the small button on the side of the white control box. Press and hold this button, then press the transmitter button at the same time. The post will learn the new code and do a small operation in both directions to indicate this. The new code has been set. Replace the solar panel and tighten the screws.

5. Emergency Release

- 5.1. Should you require manual operation of the post i.e. you are unable to use the transmitter provided, the post can be disconnected from its drive mechanism. Slide the emergency release cover to one side to reveal a hole, see figure 3D. Insert the short end of the Allen Key (found in the Fixing Kit) into this and engage it into the head of the screw within. Turn anti-clockwise until the screw is removed. Note: it may be necessary to rock the post gently to release any pressure on the screw and enable it to turn freely. Once the screw has been removed the post can be moved manually.
- 5.2. To reinstate the mechanism, return the post to the position it was in when the screw was removed. You will now be able to re-insert the screw into the post, and gently tighten. Again it might be necessary to rock the post gently for the screw to re-engage.

6. Maintenance

- 6.1. **The Safety Key and Allen Key (found in the fixing kit) must be stored in a safe place to ensure they are not lost or stolen!**
- 6.2. Ensure the solar panel and the area around the post are kept clean and clear from debris.
- 6.3. Lubricate moving parts. To remove the cover, lower the post so it is laying flat on the ground. This will reveal two screws that were hidden by the base cover, figure 3E. Remove these and slide the post cover upwards to reveal the drive screw thread within the chassis, figure 4. Lubricate the drive screw using spray grease. Replace the cover and re-tighten the screws.
- 6.4. Depending on usage and average daylight exposure it may be necessary to charge the battery from time to time. Any car battery charger can be used to charge the 12volt 7Amp battery.

7. Troubleshooting

Q: Is the post failing to respond?

A: Check the red LED light on the transmitter is glowing when the button is pressed. If not, change the battery in the transmitter (Battery type: 12v Alkaline type GP 23AE).

A: The post may have decoded. To recode the transmitter to the post refer back to point 4.7.

Q: The post is running slowly/is not working properly or at all!

A: The battery may need charging, see point 6.4. Refer back to section 5 for manual operation whilst charging the battery.

Figure 1

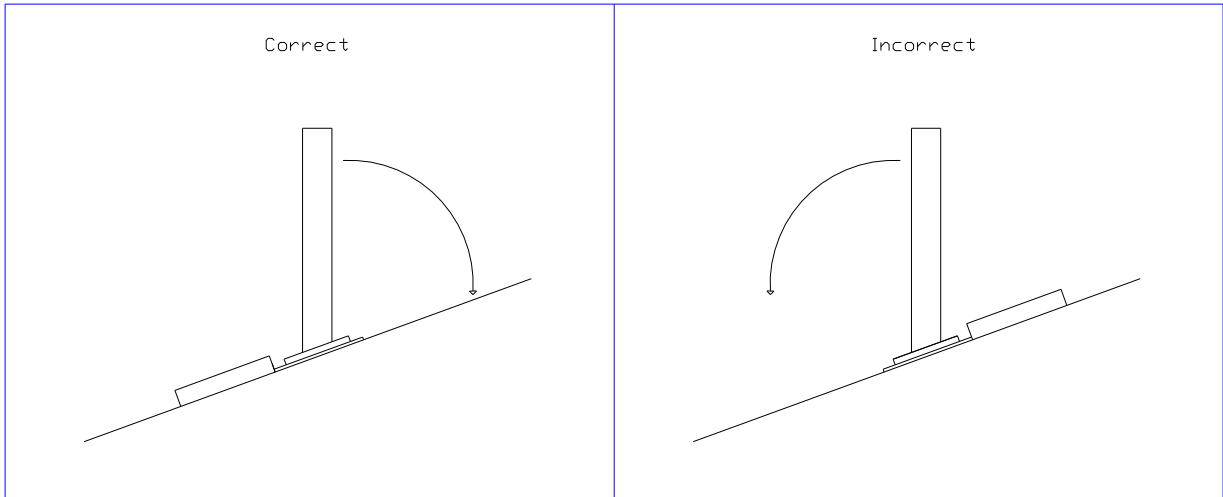


Figure 2

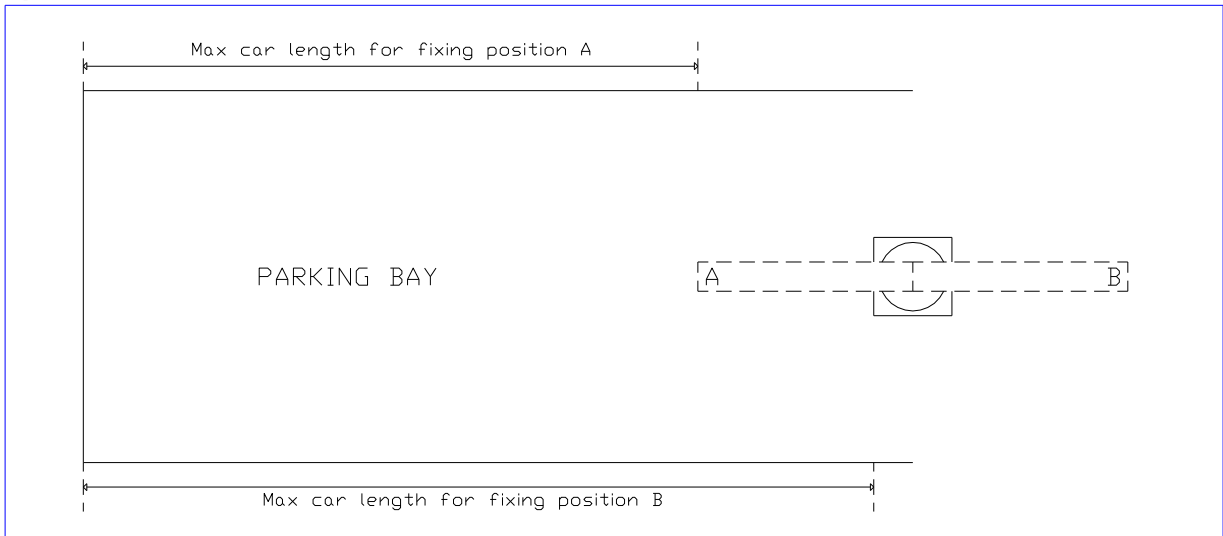


Figure 3

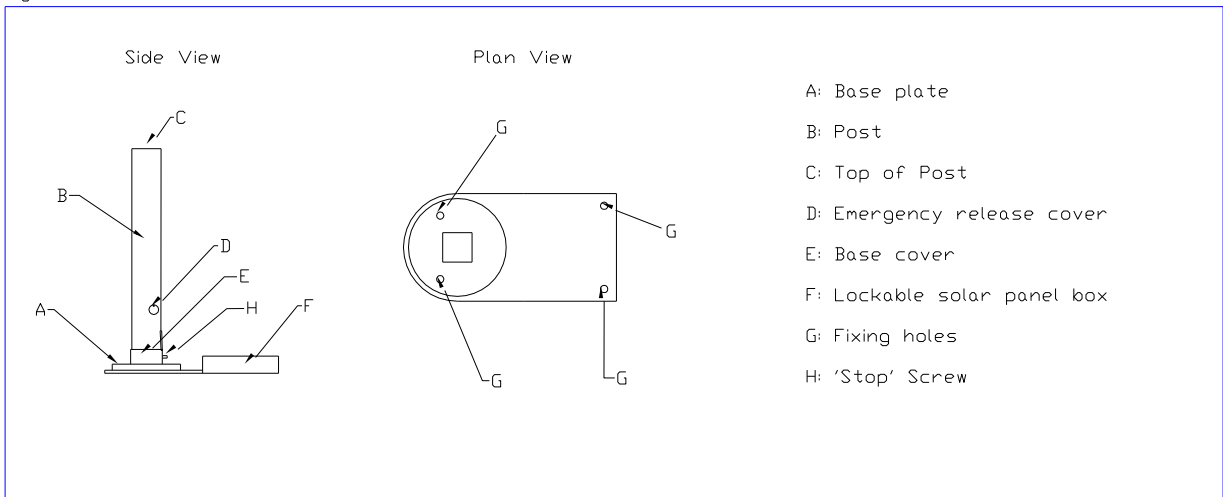


Figure 4

