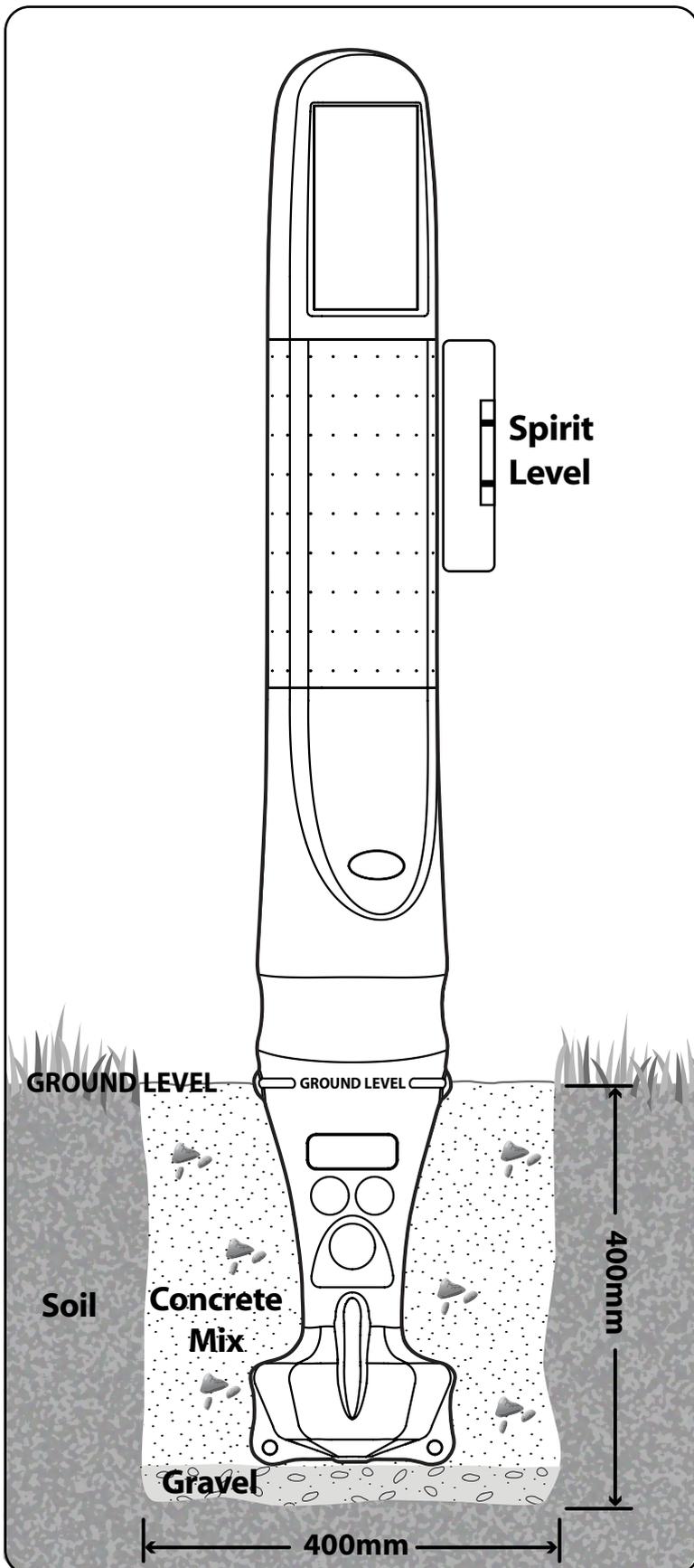


VERGEMASTER RX INSTALLATION INSTRUCTIONS

NOTE: Ensure that all relevant personnel read the points listed below and that a copy is passed on to staff involved with the installation. Please also refer to the 'Manual Handling Operations Regulations 1992' during the handling of the product and materials used for installation.

EXTENDED-BASE FIXING (REBOUND MODEL)

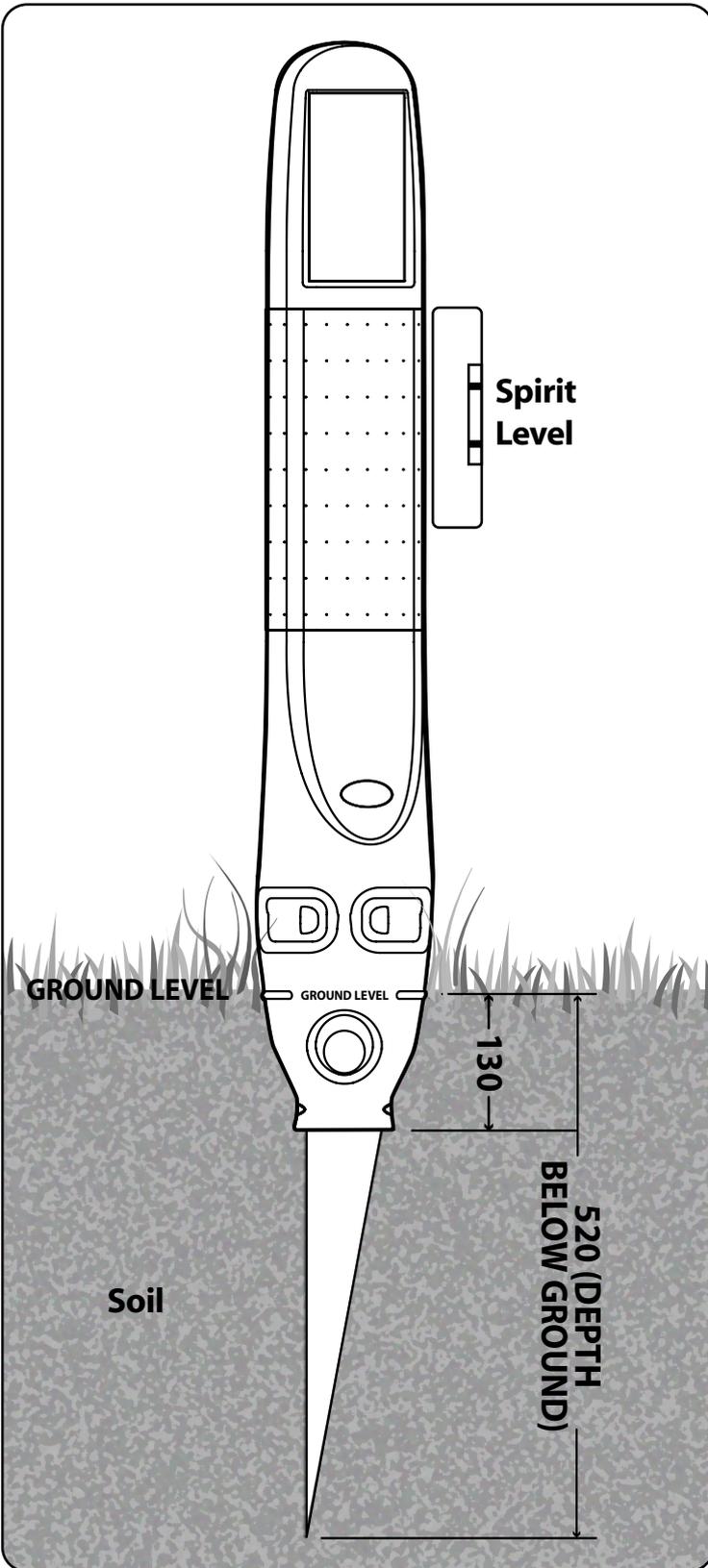


- 1** After first checking the intended site for buried underground services, mark up and dig hole approximately 400mm x 400mm x 400mm minimum.
- 2** Place gravel to a depth of 50mm into the hole. Bed the post into the gravel until the ground level indicator is aligned with the top surface. (Ensure reflectors are positioned in correct orientation. Red reflector faces oncoming traffic on the near-side, white reflector faces oncoming traffic on the off-side.)
- 3** Simply fill the hole with quick setting concrete (we recommend using Grade QC10 concrete) and tamp down and level the concrete. Finally ensure the post is vertical using a spirit level.

Alternatively, if suitable the hole can be back-filled with the original earth dug from the hole, the soil should be compacted and levelled.

Note: avoid contact with hot tarmac as this will seriously impair the performance of the Vergemaster RX.

STAKE-TYPE FIXING (NON-REBOUND MODEL)



- 1** After first checking the intended site for buried underground services, drive the timber stake into the ground using a wooden mallet (ensure to protect the top of stake with a piece of wood when driving into ground). Drive into the ground until the circular recess in the stake is at ground level.
- 2** Locate Vergemaster RX post over the stake, protecting the top with a piece of wood, and force into position (a rubber mallet may be required). Ensure reflectors are positioned in correct orientation. Red Reflector faces oncoming traffic on the near-side. White Reflector faces oncoming traffic on the off-side. Automatic stake locking mechanism prevents removal of Vergemaster RX post, from the stake.

We recommend that the stake is installed by driving directly into the ground, but exact installation requirements should be assessed from a site survey.

Not suitable for hard ground.

Note: avoid contact with hot Tarmacadam as this will seriously impair the performance of the Vergemaster RX and timber stake.

Please note that diagrams are not to scale

SURFACE MOUNTED FIXING

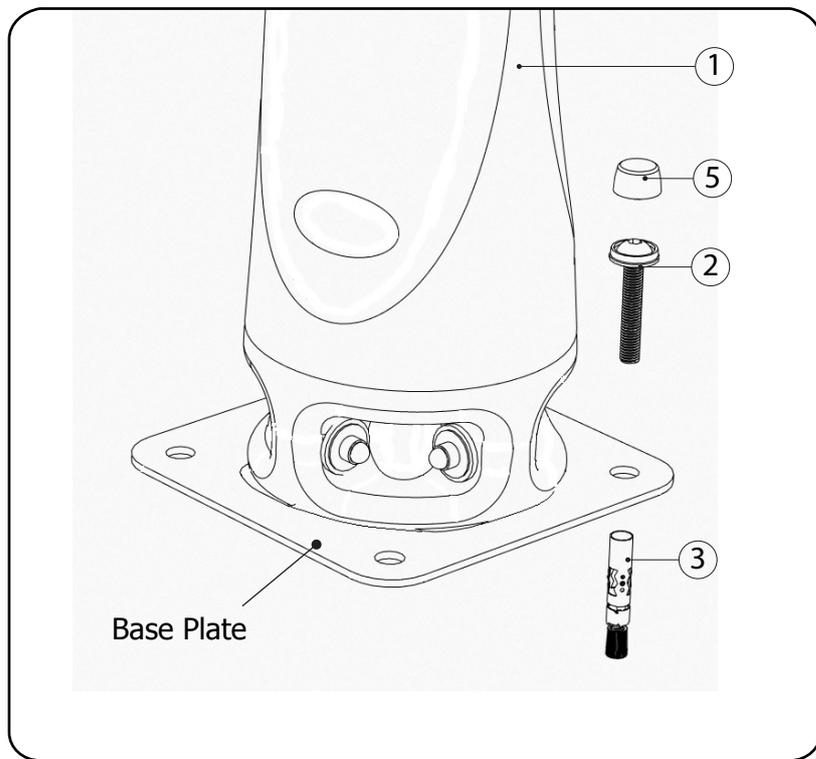
NEW INSTALLATIONS

KIT CONTENTS:

ITEM 1. Bollard c/w Base Plate	x 1
ITEM 2. Washer M10 x Ø35 x 1.5mm	x 4
ITEM 3. M10 x 60 Anchor Shield	x 4
ITEM 4. Button Head Screw M10 x 80	x 4
ITEM 5. Cover Cap & Washer (Snap fit)	x 4

TOOLS REQUIRED:

- 6mm Allen Key (Supplied)
- 16mm Diameter Masonry Drill Bit
- Appropriate Electric Drill
- Hammer



• Position the Bollard (Item 1) on to the intended site. Ensure reflectors are positioned in the correct orientation- red reflector faces oncoming traffic on the near-side, white reflector faces oncoming traffic on the off-side.
[Before drilling, ensure that the hole centres are a minimum of 100mm from the edge of the concrete foundation.]

• Using the base plate as a template, mark out 4x hole positions. Drill the holes with a 16mm diameter masonry drill bit no less than 110mm deep.

• Insert an Anchor Shield (item 3) into each of the four holes, using a hammer (if required), tap them in and flush with the ground level.

• Spray generously a suitable Lubricant/Grease (e.g. WD40) into the threads of the 4x Anchors (to aid assembly and future removal).

• Orientate the Bollard correctly aligning all 4x holes to the Anchors.

• Orientate correctly and place Washer (item 2), followed by Cover-cap Washer Plate (item 5) onto each on the 4x Screws (item 4).

• Using a 6mm Allen key (supplied), loosely tighten each of the Anchor Bolts, then fully tighten to complete the installation.

• To complete, snap-fit a Cover-Cap (item 5) over each of the 4x Screws.

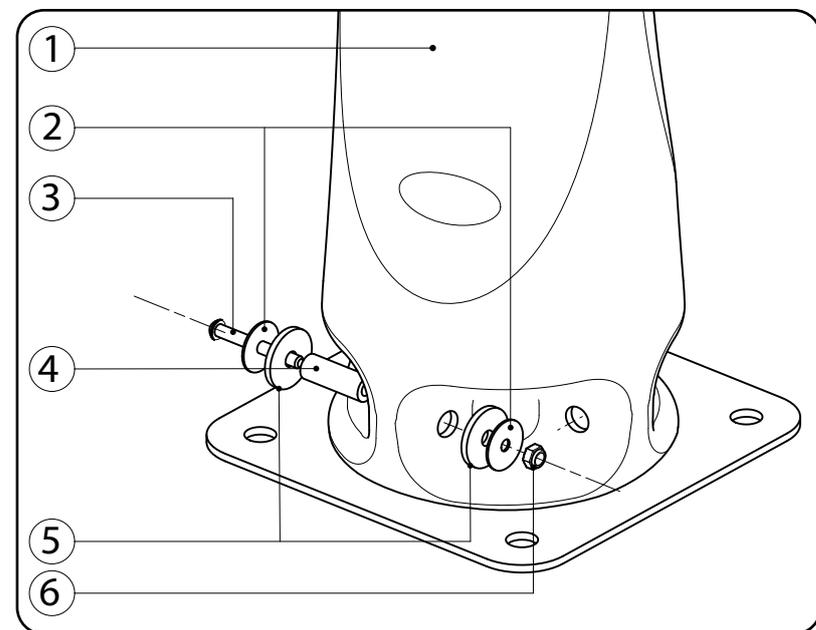
REPLACING A DAMAGED BOLLARD WITH A SPARE BOLLARD TOP

KIT CONTENTS:

ITEM 1. Bollard	x 1
ITEM 2. Washer M6 x 6.5 x 25mm	x 8
ITEM 3. Screw Button Head M6 x 50mm	x 4
ITEM 4. Spacer M6 x 12.5 x 35	x 4
ITEM 5. PVC Washer 6.4 x 30 x 3mm	x 8
ITEM 6. M6 Nyloc Nut	x 4
ITEM 7. Decorative Nut Cap M6	x 4

TOOLS REQUIRED:

- 4mm Allen Key (included within kit)
- 10mm Spanner



• Remove the four fixings used to attach the damaged bollard to the ground plate (leaving the four ground fixing bolts in place).

• Replace with your new bollard in the correct orientation aligning the holes in the bollard base with the holes in the ground plate.

• Arrange the items as shown in the diagram and tighten using the 4mm Allen Key provided and a 10mm Spanner.
Repeat for the other three fixing points.

SURFACE MOUNTED FIXING

CONCRETE - IN ANCHOR INSTALLATIONS

KIT CONTENTS:

ITEM 1. Bollard C/W Base plate	x 1
ITEM 2. Adjustable Concrete-in Fixing	x 4
ITEM 3. Washer M10 x Ø35 x 1.5mm	x 4
ITEM 4. Fixing Screw M10 x 80mm	x 4
ITEM 5. Cover Cap and Washer (Snap fit)	x 4
ITEM 6. Washer M10 x Ø50mm	x 4
ITEM 7. Passivated Nut M10	x 8

TOOLS REQUIRED:

- 6mm Allen Key (included with kit)
- Equipment to excavate hole
- Concrete mix (fast Setting)

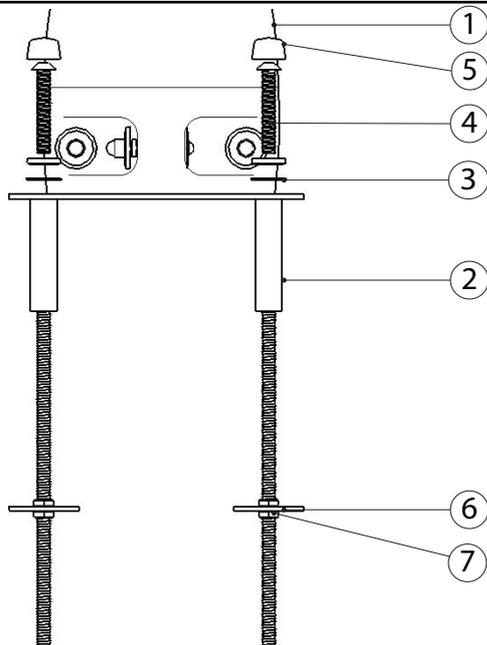


DIAGRAM 1

INSTALLATION METHOD:

1. Check for buried services before starting installation.
 2. Prepare a hole 300mm x 300mm x 400MM deep.
 3. Fully assemble and tighten all the required Concrete-in fixings (item 2) to the base of bollard (1) as shown in diagram 1.
 4. If the depth is restricted to less than 400mm the fixing can be adjusted by moving the bottom washer (of item 2) up the Concrete-in fixings and cutting the bar to the desired length. We would recommend using the same volume of concrete by increasing the width of the hole accordingly.
- Note: If the foot area of the bollard is not supported by any surrounding solid ground, place aggregate and support blocks in the base of the prepared hole, ensuring that the Concrete-in fixings can rest upon single block or complete support blocks (see diagram 2). Orientation of the bollard in respect of the Concrete-in fixings must then be noted to place fixings onto a firm footing.**
5. Place the Concrete-in fixing assembly into the hole, ensuring that the fixings rest upon the support blocks (if applicable) and that the bollard is level.
 6. Remove the bollard and fixing assembly and pour the concrete mix into the prepared hole up to ground level.
 7. Ensure the bollard is orientated correctly to place onto the support blocks (if applicable). Fully insert the Concrete-in Fixing Assembly into the concrete until the base on the bollard is flush with ground level, or if applicable the top surface of the concrete (see diagram 2).

The bollard can be removed at any time by removing the fixing screws and washers (item 3, 4 and 5 diagram 1). This will leave concrete fixings flush with ground level. If the bollard is not being replaced for a period of time, ensure that the fixing holes are plugged to reduce the risk of the fixings being blocked with ground dirt.

MAINTENANCE

To clean the exterior of the product we recommend using a cold pressure wash with soap or alternatively hand washing it with a soft brush and soapy water, rinsing it afterwards to remove any residue.

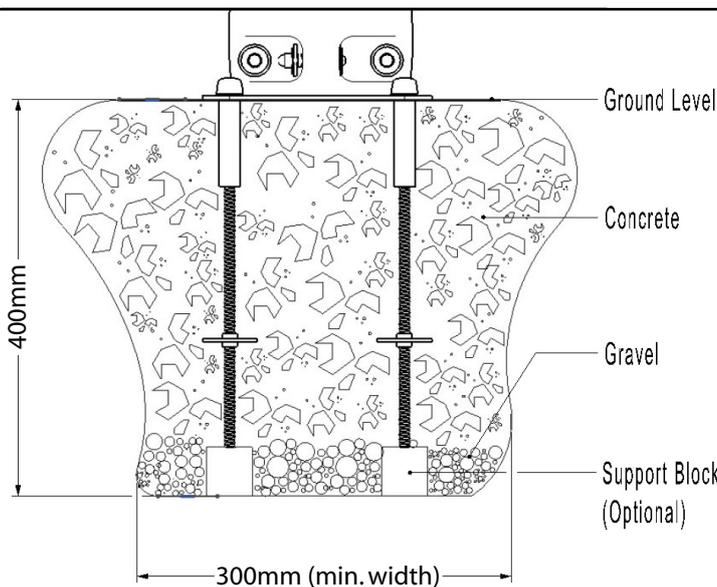


DIAGRAM 2

Please note that diagrams are not to scale

IMPORTANT NOTE: PLEASE ENSURE ALL RELEVANT PERSONNEL READ THE POINTS LISTED WITHIN THIS LEAFLET AND THAT A COPY IS GIVEN TO STAFF INVOLVED WITH THE INSTALLATION AND MAINTENANCE OF THIS PRODUCT. SAFETY NOTE: PLEASE REFER TO 'THE MANUAL HANDLING OPERATIONS REGULATIONS 1992' DURING HANDLING.



AND VERGEMASTER RX ARE TRADEMARKS OR REGISTERED TRADEMARKS OF GLASDON GROUP OR ITS SUBSIDIARIES IN THE U.K AND OTHER COUNTRIES

- A planned maintenance schedule or regular inspection is recommended, replacing components as necessary.
- Replacement components are available direct from GLASDON.
- GLASDON cannot be held responsible for claims arising from incorrect installation, unauthorised modifications or misuse of the product.

Drawing No. 02B067-14-04 Issue 4 June 2017 Stock no. C000/0333
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