



Vestil Manufacturing Corp.
 2999 North Wayne Street, P.O. Box 507, Angola, IN 46703
 Telephone: (260) 665-7586 -or- Toll Free (800) 348-0868
 Fax: (260) 665-1339
 Web: www.vestilmfg.com e-mail: info@vestil.com

BOL-OR-40-BK-SM



Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE: The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The Department can also be contacted online at <https://www.vestil.com/page-parts-request.php>.

Electronic Copies of Instruction Manuals

Additional copies of this instruction manual may be downloaded from <https://www.vestil.com/page-manuals.php>.

Table of Contents		Page
Signal Words		2
Safety Instructions		2
Exploded View and Bill of Materials		3
Installing the Bollard		3
Record of Satisfactory Condition		4
Inspections & Maintenance		4
Limited Warranty		5

SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood that a particular action will cause personal injuries or property damage. Signal words also specify the level of seriousness of injury if the product is misused in the ways described. The following signal words are used in this manual.



Identifies a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.



Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.



Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury.



Identifies practices likely to result in product/property damage, such as operation that might damage the product.

SAFETY INSTRUCTIONS

Vestil strives to identify all foreseeable hazards associated with the use of its products. Material handling is dangerous and no manual can address every conceivable risk. Ultimately, the most effective way to prevent injury is to apply sound judgment whenever using this device.

WARNING

Improper or careless use of this product could result in death or serious personal injuries.

- *Read and understand the entire manual before assembling, installing, using or servicing the product.* Read the manual to refresh your understanding of proper use and maintenance procedures.
- DO NOT attempt to resolve any problems with the product unless you are qualified to repair this type of equipment.
- DO NOT modify the product in any way UNLESS you first obtain written approval from Vestil. Unapproved modifications automatically void the **LIMITED WARRANTY** and might make the product unsafe to use.
- Inspect the product at least once per month according to the instructions in **INSPECTIONS & MAINTENANCE**. DO NOT use this product if it is not in satisfactory condition. Replace each part that fails to pass an inspection. DO NOT use the product until it is fully restored to satisfactory condition. See **RECORD OF SATISFACTORY CONDITION** on p. 4.
- DO NOT keep the product in service unless it is securely anchored to the ground. The bollard must be solidly anchored to a concrete surface. It must not wobble. Relocate the bollard if it cannot be securely anchored to the ground.
- Replace the bollard immediately after it sustains damage.
- DO NOT use this device UNLESS all labels are clearly visible and undamaged. Replace damaged labels as soon as damage occurs.

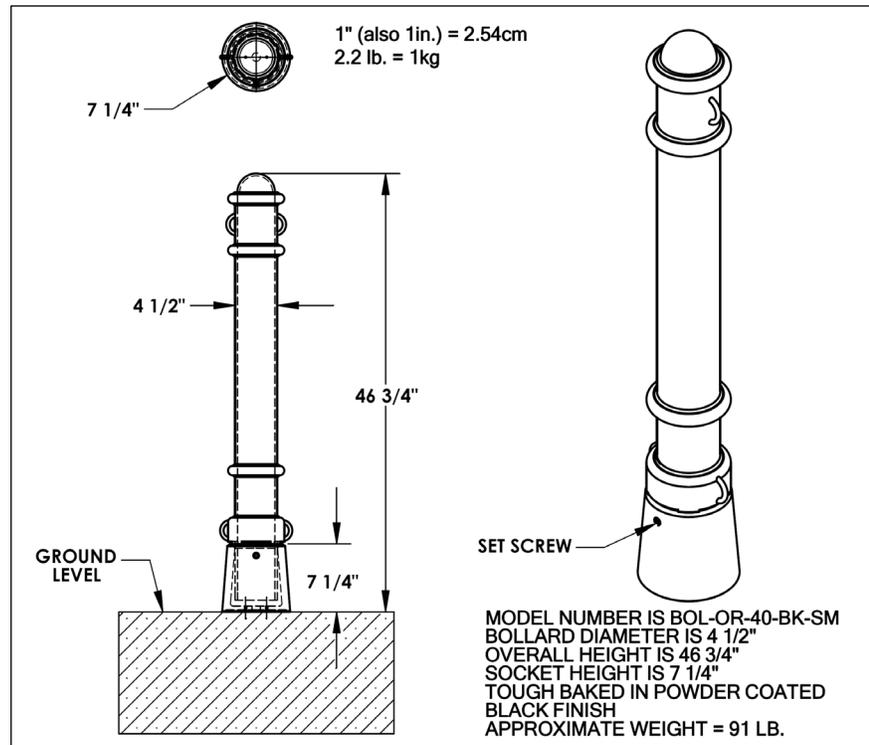
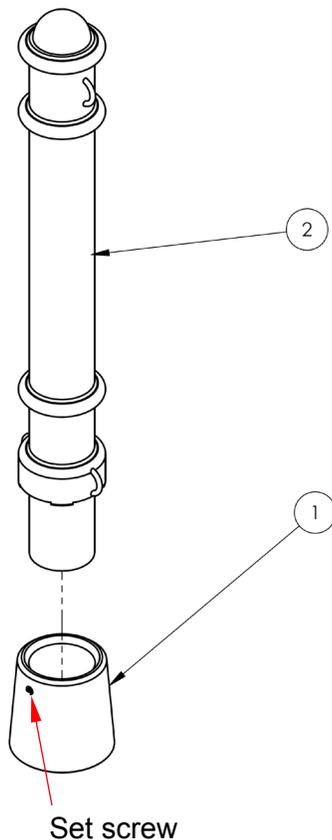
NOTICE

Proper use, maintenance, and storage are essential for this product to function properly.

- Always use this product in accordance with the instructions in this manual and consistent with any training relevant to machines, devices, etc. used in conjunction with this product.
- Inspect the product according to the instructions in **INSPECTIONS & MAINTENANCE**. DO NOT use the product unless it is in **SATISFACTORY CONDITION**.
- DO NOT use this device UNLESS all product labels are readable and undamaged. See **LABELING DIAGRAM**.

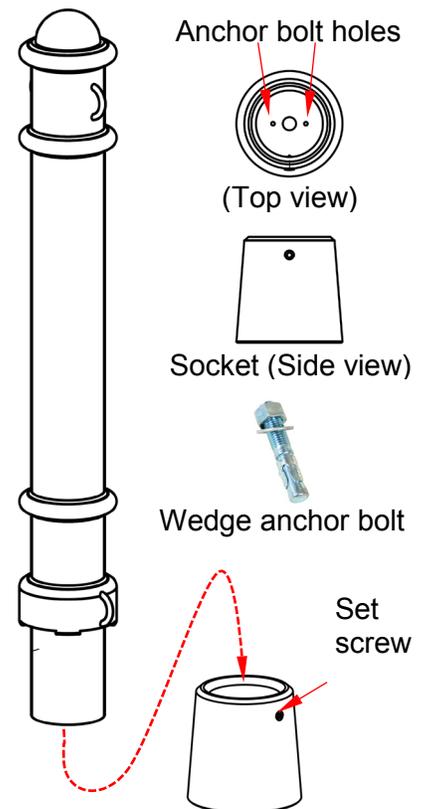
EXPLODED VIEW AND BILL OF MATERIALS (23-006-232)

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	23-514-104	Subassembly, bollard socket	1
2	23-014-164	Frame, bollard casting	1



INSTALLING THE BOLLARD

1. Set the socket in the selected installation location. The bollard should be attached to a sound, concrete surface.
2. There are 2 bolt holes in the bottom of the socket. Mark the concrete with the locations of the bolt holes.
3. Use a hammer drill and a 3/4" (19mm) masonry drill bit to make holes in the marked locations. Each hole should be 3.25" deep (8.25cm).
4. Anchoring hardware kit AS-344-4PK provides 4 wedge-type anchor bolts. If you did not order the anchoring kit, purchase two (2) 3/4" x 4" wedge-type anchor bolts. Only 2 anchor bolts are required per bollard. Wind a hex nut onto 2 of the anchor bolts. The nuts should stick up above the ends of the bolts. Use a hammer to tap each anchor bolt into a hole drilled into the concrete. The hammer should strike the nut rather than the end of the bolt. Remove the nuts once the bolts are in place.
5. Set the socket in place by aligning the anchor bolts with the bolt holes in the bottom of the socket. If necessary, widen the bolt holes in the bottom of the socket using a 3/4" drill bit.
6. Put a flat washer on each bolt; then install a hex nut on each bolt.
7. Tighten the nuts until the socket is firmly attached to the concrete.
8. Insert the bottom end of the bollard into the socket. Rotate the bollard until it seats into the socket.
9. Tighten the set screw with a hex wrench to secure the bollard in the socket.



RECORD OF SATISFACTORY CONDITION (THE “RECORD”)

After the unit is assembled and/or installed, make a detailed record of its condition. Include observations about all features: bollard, welds, socket, set screw, and anchoring hardware. Thoroughly photograph the unit from multiple angles so that all features are clearly imaged. Loosen the set screw and remove the bollard. Photograph the inside of the socket including the tops of the anchor bolts, washers, and nuts. Photograph all labels applied to the product. Describe where each label is located. Collate all photographs and writings into a single file. This file is a record of the product in satisfactory condition.

INSPECTIONS AND MAINTENANCE

Compare results of all inspections to the **RECORD** to determine whether the unit is in satisfactory condition. Do not continue to use the product unless every component is in **SATISFACTORY CONDITION**. Cosmetic changes, like damaged paint/powder coat do not constitute changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as damage occurs. Contact **TECHNICAL SERVICE** to order replacement parts. Contact information is provided on the cover page of this manual.

Inspect the following at least once per month:

1. Check bollard for wobbliness – Confirm that the bollard does not wobble. If it does wobble, loosen the set screw and remove the bollard. Tighten the nuts of the anchor bolts and reinstall the bollard. Determine whether the bollard still wobbles. If wobbling cannot be corrected, the holes in the concrete for one of both anchor bolts are too large. Install the bollard in another location.
2. Bollard – Loosen the set screw and remove the bollard. Clean the bollard. Remove rust and corrosion and apply touchup paint. Examine the bollard for wear, breaks, metal fatigue, and other forms of damage (e.g. impact damage). If rusting, rot, or thinning has weakened the material, contact **TECHNICAL SERVICE** for advice.
3. Socket and anchoring hardware – Remove the nuts and washers from the anchor bolts. Lift the socket off of the ground. Remove rust and corrosion. Clean the bottom (ground-contacting surface) as well as the inside of the socket. Examine the bolt holes in the socket. Check bolts, nuts, and washers. Replace damaged/worn/corroded hardware. Reattach socket to ground with anchoring hardware.
4. Labels (if applicable) – Replace damaged labels and labels that are not easily readable from a reasonable distance.

LIMITED WARRANTY

Vestil Manufacturing Corporation (“Vestil”) warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of “original part”?

An original part is a part used to make the product as shipped to the Warrantee.

What is a “proper request”?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by one of the following methods:

<u>US Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Corporation 2999 North Wayne Street, PO Box 507 Angola, IN 46703	(260) 665-1339 <u>Phone</u> (260) 665-7586	info@vestil.com Enter “Warranty service request” in subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions (“wearing parts”), such as bearings, hoses, wheels, seals, brushes, and batteries. NOTE: Damaged sustained as a result of the bollard’s intended/designed use is not covered by the warranty.

How long is the warranty period?

The warranty period for original dynamic components is 90 days. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any *covered* part. An authorized representative of Vestil will contact you to discuss your claim.

What is not covered by the warranty?

The Warrantee (you) are responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

Do any other warranties apply to the product?

Vestil Manufacturing Corp. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.

