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MHGR-32: Manhole Guardrail System



Receiving instructions:

After delivery, IMMEDIATELY remove the packaging from the product in a manner that preserves the packaging; then inspect the product closely to determine whether it sustained damage during transport. **If damage is discovered during the inspection, immediately record a complete description of the damage on the bill of lading.** If the product is undamaged, discard the packaging.

NOTE:

Responsibility for complying with laws, regulations, codes, and mandatory standards enforced in the location where the product is used lies exclusively with the end-user/owner.

Replacement Parts and Technical Assistance:

To order replacement parts, labels, and accessories, contact the technical service and parts department online at http://www.vestilmfg.com/parts_info.htm. Alternatively, you may request replacement parts and/or service by calling (260) 665-7586 and asking for the Parts Department.

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SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused. **NOTICE** calls attention to uses of the product likely to damage the product or other property.



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 GUIDELINES:

Vestil diligently strives to identify foreseeable hazards associated with the use of its products. However, material handling is inherently dangerous and no manual can address every conceivable risk. The end-user ultimately is responsible for exercising sound judgment at all times.



Serious personal injury might result if this product is used improperly or carelessly.

- **Read and understand the entire manual before assembling, installing, using or servicing the product.**
- Read the manual whenever necessary to refresh your understanding of proper use and maintenance procedures.
- **ONLY** authorized personnel should work on this product.
- Deploy the guardrail system to provide a barrier around a manhole.
- **DO NOT attach personal fall arrest equipment to the guardrail!**
- **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 before each use according to the instructions in “Inspections and Maintenance” on page 4. Replace each part that fails to pass an inspection. **DO NOT** use the product until it is **fully** restored to normal condition.
- **DO NOT** use this device **UNLESS** all product labels (see “Label Placement Diagram”, p. 4) are in place, undamaged, and easily readable.



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

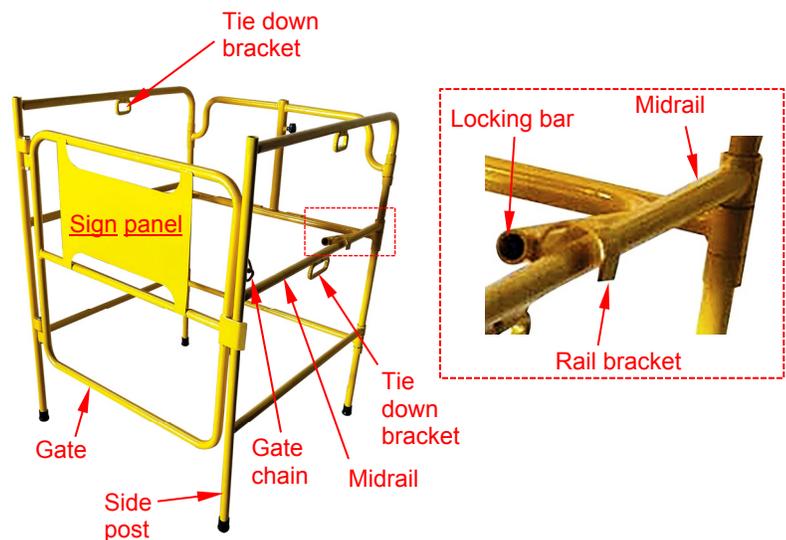
- Always use this product in accordance with the instructions in this manual.
- Keep the product clean & dry. Periodically lubricate moving parts.

Using the Guardrail System:

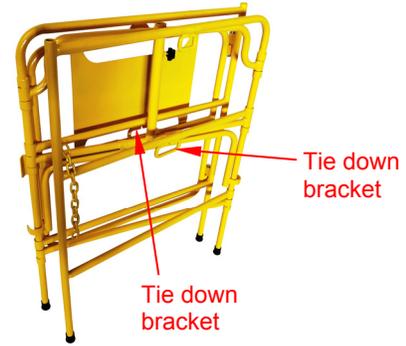
The guardrail system consists of 3 sides and a gate. The gate is fastened to the edge of one of the sides with a clevis pin, hex bolt, and spring. These connections allow the gate to rotate and the spring causes the gate to close automatically. The sides of the guardrail system are permanently hinged together. Hinged joints allow the system to reduce to a compact, folded configuration for easy storage and portability while remaining connected.

To deploy the system:

1. Open the sides into a square configuration.
2. Rotate the locking bar upwards and lay the rail brackets on the midrails of the 2 adjacent walls. The locking bar helps the system retain shape.
3. To prevent unauthorized persons from accessing the manhole, wrap the gate chain around the gate and wall post and padlock the chain to itself.
4. Attach appropriate signage to the outside of the sign panel.
5. To store the guardrail system, collapse/fold it into folded configuration. The left and right sides of the system are each equipped with 2 tie-down brackets. Wrap cord, rope, or straps

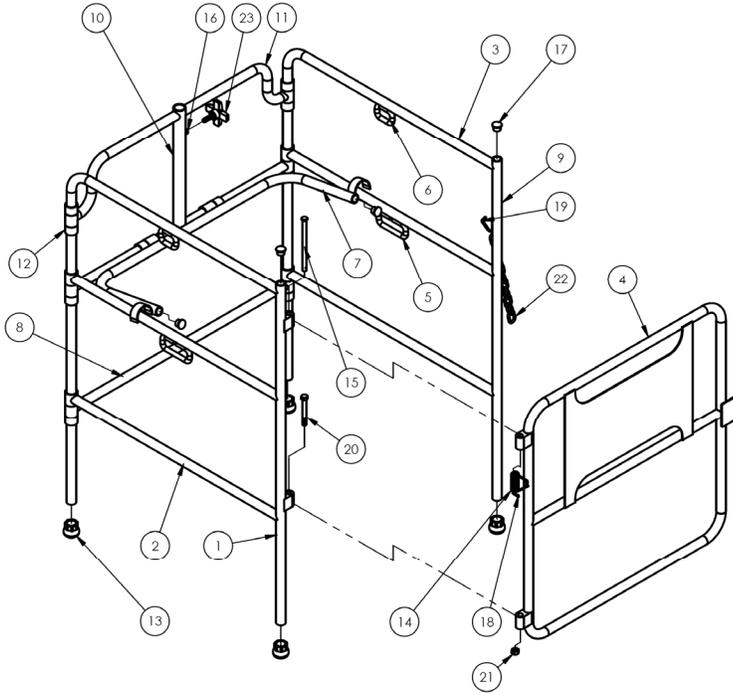


around the collapsed guardrail system and through the tie-down brackets to prevent it from unfolding during storage or transport.



Folded configuration

Exploded View and Bill of Materials



ITEM	PART NO.	DESCRIPTION	QTY.
1	29-514-044	GATE MOUNT	1
2	29-514-049	CROSS BAR WITH 1 END	4
3	29-014-082	FRAME	2
4	29-514-045	WELDMENT, GATE	1
5	29-025-003	HANDLE	2
6	29-016-017	BRACKET, HOLD DOWN	2
7	29-514-050	WELDMENT, FRAME, LOCK BAR	1
8	29-514-046	CROSS BAR / TWO ENDS	1
9	29-014-083	CROSS BAR	1
10	29-014-081	POST	1
11	29-514-048	CURVED BAR ASSEMBLY	2
12	29-016-015	WELD PIECE	8
13	14-037-004	RUBBER STOP CRUTCH TIP	4
14	14-146-002	9/16 X 2 1/4 " LG SPRINT	1
15	29-112-001	CLEVIS PIN	1
16	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	1
17	29-024-013	PLUG, PLASTIC W/RIBS	4
18	65074	COTTER PIN	1
19	99-145-013	COLD SHUT	1
20	13167	HEX CAP SCREW, GRADE 5, ZINC FINISH, 7/16"-14 X 3 1/2"	1
21	36108	HEX NUT Z PLATE, 7/16-14	1
22	99-145-089	CHAIN, #2, LACLEDE 12" LONG	1
23	08-025-007	KNOB, 3/8-16 UNC THD X 1 1/4 LG	1

Inspections and Maintenance:

Before putting your product into regular service, make a written record that describes its appearance and operation. Pay particular attention to hinges/joints including the gate hinges. Describe the movement and any sounds heard as you rotate each section at its joints. Photograph the unit. Take photographs of all hinges, labels, and welds. Make note of the location of each label and compare it to the “Labeling Diagram” (below). This record establishes “normal condition”.

Inspect the guardrail system before each use. Compare your observations to the record to determine whether the unit is in normal condition. Do not use the guardrail unless all parts are in normal condition.

1. Hinges: Lubricate all hinges whenever joint movement becomes noisy or rough.
2. Damaged finish: Repair areas where the finish is damaged. Remove rust, clean the surface and allow it to dry, and then apply touchup paint.
3. Rubber feet: Inspect the feet. Replace each foot that is severely worn, torn, or missing.
4. Gate: confirm that the spring return mechanism functions properly, i.e. the gate should close on its own. If the spring mechanism is not in normal condition, contact the technical service department to order replacement components.

Labeling Diagram:

The unit should be labeled as shown in the diagram. However, label content and locations are subject to change so your guardrail might not be labeled exactly as shown. Replace all labels that are damaged, missing, or not easily readable (e.g. faded). To order replacement labels, contact the technical service and parts department online at http://www.vestilmfg.com/parts_info.htm. Alternatively, you may request replacement parts and/or service by calling (260) 665-7586 and asking the operator to connect you to the Parts Department.



Label 1065 (Applied to back/inside of sign panel)

▲ WARNING	▲ ADVERTENCIA
Improper or careless use of this guardrail system might result in serious personal injuries. <ul style="list-style-type: none"> • Only use this product as a visible barrier around open manholes. • Do not attach personal fall arrest equipment (e.g. lanyards) to this product. 	El uso inapropiado o descuidado de el sistema de barandal puede resultar en serias lesiones <ul style="list-style-type: none"> • Ocupe solo este producto como una barrera visible alrededor de manuales abiertas. • No añadir equipo personal de detencion de caidas a este producto (e.g. cordones)
1065	

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, electronic controllers, switches, 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.

How long is the warranty period?

The warranty period for original dynamic components is 30 days. For wearing parts, the warranty period is 30 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 the 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

