



STEERING SYSTEMS

ELECTRONIC HELM



EH1542, EH1545

EN

Compact electronic tilt helm

Short Installation Manual..... 2

1 Important notes

Please read these instructions carefully and follow all instructions, guidelines, and warnings included in this product manual in order to ensure that you install, use, and maintain the product properly at all times.

By using the product, you hereby confirm that you have read all instructions, guidelines, and warnings carefully and that you understand and agree to abide by the terms and conditions as set forth herein. You agree to use this product only for the intended purpose and application and in accordance with the instructions, guidelines, and warnings as set forth in this product manual as well as in accordance with all applicable laws and regulations. A failure to read and follow the instructions and warnings set forth herein may result in an injury to yourself and others, damage to your product or damage to other property in the vicinity. This product manual, including the instructions, guidelines, and warnings, and related documentation, may be subject to changes and updates. For up-to-date product information, please visit documents.dometic.com.

2 Related documents

This product is designed for use with an Optimus Electronic Power Steering System by Dometic. You must refer to the installation manual for your system to complete the installation. If you do not have these instructions, contact Dometic for a replacement at seastar@Dometic.com.

3 Explanation of symbols

A signal word will identify safety messages and property damage messages, and also will indicate the degree or level of hazard seriousness.



WARNING!

> Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



NOTICE!

> Indicates a situation that, if not avoided, could result in property damage.



NOTE Supplementary information for operating the product.

4 Safety instructions



WARNING! Incomplete installation hazard

An incomplete or poor installation may result in loss of steering control, which could lead to a collision and/or ejection from the boat, causing death, serious injury, or property damage.

> Follow the installation instructions included with the steering system.

5 Intended use

The compact electronic helm is intended for use only with the Dometic Optimus Electronic Power Steering system as a steering control component on marine vessels.

This product is only suitable for the intended purpose and application in accordance to the installation manual.

Poor installation and/or improper operation or maintenance will result in unsatisfactory performance and a possible failure.

The manufacturer accepts no liability for any injury or damage to the product resulting from:

- Incorrect installation, assembly or connection, including excess voltage
- Incorrect maintenance or use of spare parts other than original spare parts provided by the manufacturer
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in this manual

Dometic reserves the right to change product appearance and product specifications.

6 Installation



WARNING! Unsecured steering components hazard

Substitution of non-self-locking fasteners may result in loosening or separation of equipment, leading to a loss of steering control, which could lead to a collision and/or ejection from the boat, causing death, serious injury, or property damage.

- > Use only the self-locking fasteners provided.
- > Install fasteners to the specified torque.



WARNING! Static electricity damage

Static electricity may damage the helm, resulting in loss of steering control, which could lead to a collision and/or ejection from the boat, causing death, serious injury, or property damage.

- > Install the supplied ground strap as directed.



WARNING! Water ingress hazard

Water ingress will damage electronic components, resulting in loss of steering control, which could lead to a collision and/or ejection from the boat, causing death, serious injury, or property damage.

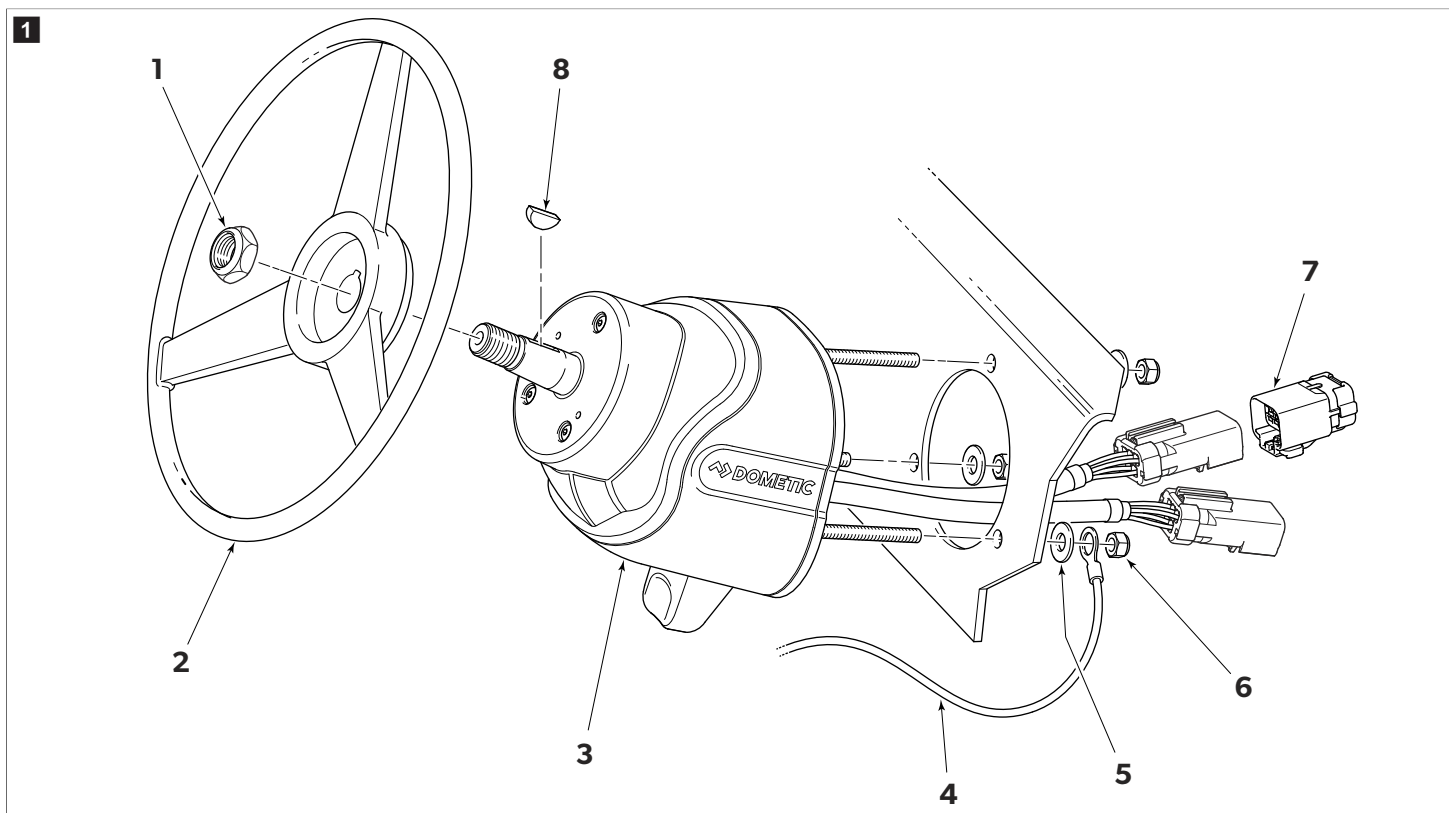
- > Install sealing plugs in any unused harness receptacles.



CAUTION! Magnetic field

The electronic helm may affect a magnetic compass.

- > Ensure the helm is a minimum of 24 in (61 cm) away from any magnetic compass.



No.	Description	No.	Description
1	Nut, self-locking	5	Washer, ¼ in
2	Steering wheel (not included)	6	Nut, self-locking, ¼-NC
3	Electronic tilt helm	7	Sealing plug
4	Ground strap	8	Shaft key (not included with splined models)

1. Choose a location for the helm (3,  Fig. 1 on page 3).

When choosing the location, ensure that the location allows unrestricted operation of the steering wheel in all tilt positions. Check that the helm does not interfere with adjacent equipment or any hardware behind the dashboard, and that it is at least 24 in (609.6 mm) from any magnetic compass.



NOTE ABYC P-28 requires a minimum 2.5 in (63.5 mm) clearance between the steering wheel rim and the control lever at all possible wheel and lever positions.

2. Tape the drill template to the dashboard and mark the center of the holes with a center punch.



NOTICE! Damage to dash

Incorrect drilling of the dash may result in difficult rework or damage to the dash.

- > If you photocopy this template (or print from a downloaded document), check that the measurements are correct before use.
- > Use the "actual size" setting when printing a template. Do not use "fit" or any other scaling option.

3. Drill the center hole and the mounting bolt holes. The hole diameters are shown on the template.
4. Remove all sharp edges, chips, or burrs that might damage or chafe the helm's electrical harness from the center dash hole.
5. Guide the electrical harness through the center hole, then slide the helm mounting studs into the mounting holes.
6. Install the washers (5,  Fig. 1 on page 3) and self-locking nuts (6,  Fig. 1 on page 3) on the mounting studs.
Install one end of the supplied ground strap (4,  Fig. 1 on page 3) between the washer and nut on one of the studs as shown in the installation diagram.
7. Torque the self-locking nuts to 60 in·lb (6.779 Nm) – 75 in·lb (8.474 Nm).
8. Connect the other end of the ground strap to a ground point on the boat, a negative bus bar, or the battery negative terminal.
9. Lightly grease the steering wheel shaft (including the thread) and shaft key (8,  Fig. 1 on page 3, used on non-splined models only) with a quality marine grease or anti-seize compound, then install the steering wheel.
10. Install the supplied self-locking nut (1,  Fig. 1 on page 3) and torque to 140 in·lb (15.818 Nm) – 160 in·lb (18.078 Nm)
11. Make the CAN harness connections as shown in the installation manual for your system.
If only one of the helm's CAN connectors is used, install the sealing plug (7,  Fig. 1 on page 3) in the unused connector.
12. Strain-relieve the CAN harness(es) by securing them to one of the helm mounting studs or another fixed point using cable ties.

7 Technical data

Table 1: Steering wheel specifications

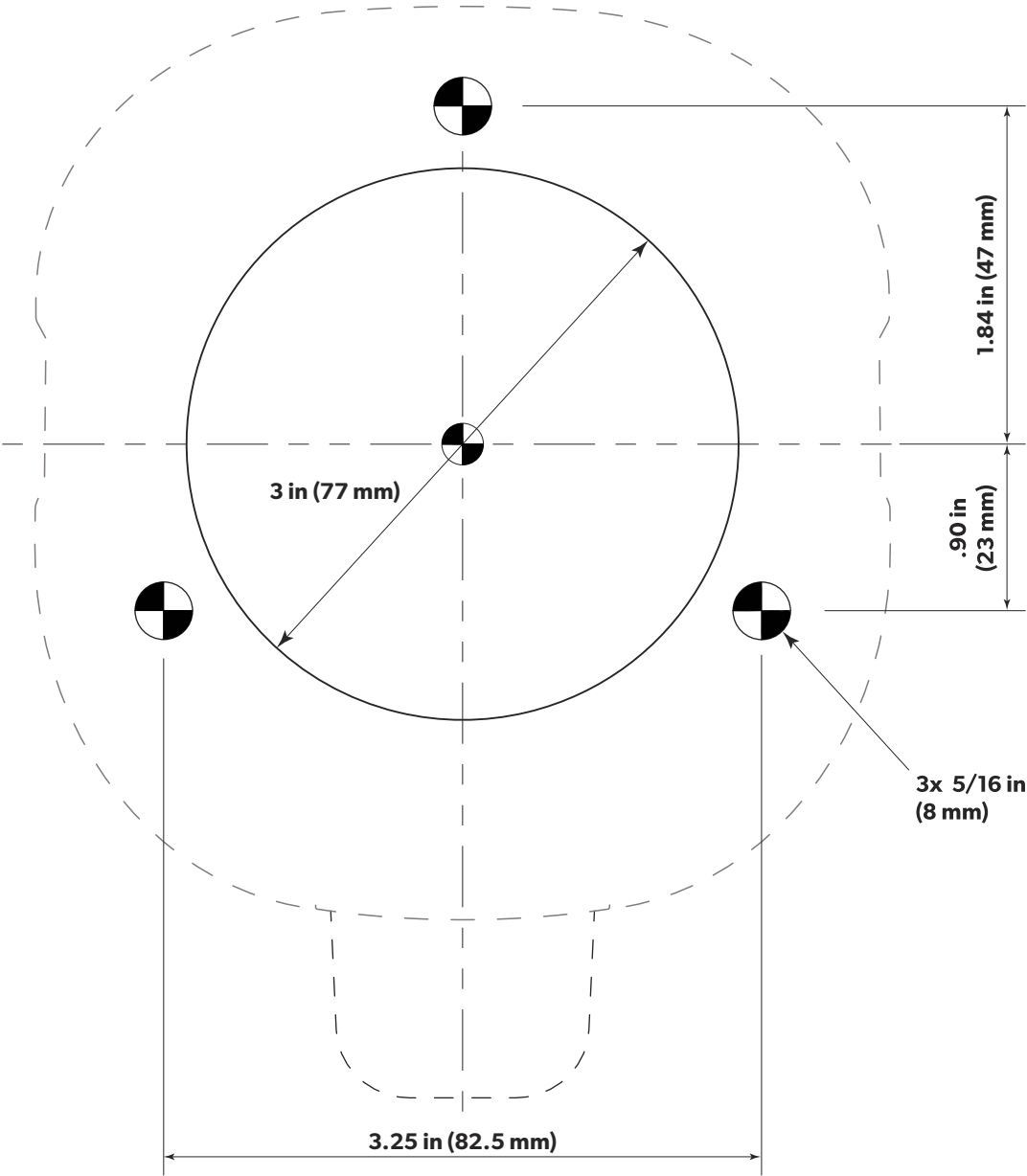
Helm model	Wheel shaft	Maximum wheel diameter	Maximum wheel dish
EH1542	3/4 in tapered shaft with 5/16 in key	20 in (508 mm)	5 in (127 mm)
EH1545	19 spline shaft with 0.69 in (17.6 mm) nominal diameter	20 in (508 mm)	5 in (127 mm)

8 Copyright

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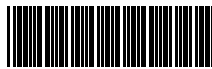
Drill template





WARNING

Handling recreational marine vessel parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vessel outdoors or in a well-ventilated area, wear gloves, and wash your hands. For more information see www.P65Warnings.ca.gov/marine-vessel-parts.



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