INTRODUCTION

Welcome to the Glendinning family of quality marine products. Your new Cablemaster carries the same assurance of quality that has stood behind every product from Glendinning Marine Products for over 30 years—we’re proud of our reputation for quality products and service.

While installation on most boats is straightforward and easy, for those perplexing situations, nothing beats a qualified marine electrician. Using common sense about safety and a sound mechanical approach during the installation, the Cablemaster will provide many hours of trouble-free service.

All Cablemasters have been designed to pay out and retract shore power cables without overloading the motor within the system’s power unit. Properly adjusted, a Cablemaster will drag 75 feet (maximum) of shore power cable without slippage.

The Cablemaster consists of two major components; the hawse pipe and power unit. The chromed hawse pipe is designed to accommodate varying sizes of shore power cables with the attached 30 or 50amp shore power plug cover. Within the hawse pipe, a neoprene gasket/wiper prevents the entrance of water and helps clean the cable as it is retracted into the boat. When the cable is retracted completely, the plug cover actuates the in-limit switch which is mounted on the face of the gasket plate inside the hawse pipe.

The drive motor, reduction gearing, guide roller assembly and the relay assembly comprise the power unit. The power unit is connected to the hawse pipe with a hawse pipe clamp and a length of extruded aluminum angle. The hawse pipe clamp allows the power unit to be angled to either side of vertical directing the shore power cable toward the storage compartment. The main pulley of the Cablemaster is also freewheeling which allows the cable to be manually payed in or out.

The out-limit switch is located in the guide roller assembly. The nylon safety collar, which is installed around the shore power cable, activates the out-limit switch. This collar also serves as a mechanical stopping device should the limit switch fail or should the shore power cable be forcibly pulled outward.

ATTENTION!

In preparing this manual, Glendinning Marine Products, Inc. has relied upon the standards established by the National Electric Code and the recommended practices and standards for AC electrical systems for vessels prepared by the American Boat and Yacht Council, Inc. This manual reflects practices and standards in effect at the time of publication and is intended only as a guide to understand the Cablemaster. Glendinning Marine Products, Inc. will not be liable for any loss, damage, incidental or consequential damages of any kind, arising in connection with the use or reliance upon this manual.
Getting to Know Your Cablemaster

All Cablemasters are designed to eliminate the physically demanding task of paying out and coiling up your shore power cable. Powered extension and retraction is available at the flip of a switch! There are 3 models to choose from:

1) **CM-4 Cablemaster** — the CM-4 was designed to handle 30 amp shore power cable. The CM-4 usually comes attached to its own storage container to make installation as easy as possible. You may also order the CM-4 with TV/telephone cable instead of 30 amp shore power cable.

2) **CM-7 Cablemaster** — the CM-7 (the workhorse of the Cablemaster line) was designed to handle 50 amp shore power cable.

3) **CM-8 Cablemaster** — the CM-8 is our “heavy duty” version of the CM-7. The CM-8 will handle 100 amp shore power cable. You definitely don’t want to be extending and retracting this heavy cable by hand!

All of these units can be configured to your boat’s specifications by utilizing the many accessories which aid in installation and operation of the Cablemaster.

### 3 MODELS TO CHOOSE FROM:

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>94004</td>
<td>6/3 Yellow Jacket Cable — 50 amp 125 volt</td>
</tr>
<tr>
<td>94008</td>
<td>6/3 White Jacket Cable — 50 amp 125 volt</td>
</tr>
<tr>
<td>94005</td>
<td>6/4 Yellow Jacket Cable — 50 amp 125/250 volt</td>
</tr>
<tr>
<td>94007</td>
<td>6/4 White Jacket Cable — 50 amp 125/250 volt</td>
</tr>
<tr>
<td>94006</td>
<td>10/3 Yellow Jacket Cable — 30 amp 125 volt</td>
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**SHORE POWER PLUGS AND COVERS** — Marinco brand

<table>
<thead>
<tr>
<th>PART NUMBER</th>
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</tr>
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<tbody>
<tr>
<td>99408</td>
<td>50 amp 125/250 volt Shore Power Cable Plug — 6363CR</td>
</tr>
<tr>
<td>99409</td>
<td>50 amp 125 volt Shore Power Cable Plug — 6361CR</td>
</tr>
<tr>
<td>99410</td>
<td>50 amp Shore Power Cable plug cover — Yellow</td>
</tr>
<tr>
<td>99415</td>
<td>50 amp Shore Power Cable plug cover — White</td>
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</table>

**POWER CABLE STORAGE CONTAINERS** — rotationally molded styrene containers used to store shore power cord.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
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</thead>
<tbody>
<tr>
<td>85448</td>
<td>16” diameter x 13” height — approx. capacity of 40' of cable</td>
</tr>
<tr>
<td>85424</td>
<td>18” diameter x 16” height — approx. capacity of 55' of cable</td>
</tr>
<tr>
<td>85420</td>
<td>20” diameter x 16” height — approx. capacity of 75' of cable</td>
</tr>
<tr>
<td>85421</td>
<td>22” diameter x 15” height — approx. capacity of 75' of cable</td>
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**INSTALLATION ACCESSORIES** — these accessories are used to aid in installation of the Cablemaster unit.

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<tr>
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<tbody>
<tr>
<td>04043</td>
<td>Horizontal Pipe Extension kit — allows Power Unit to be extended away from the Hawse Pipe</td>
</tr>
<tr>
<td>04044</td>
<td>Vertical Pipe Extension kit — allows the Power Unit to be extended away from the cable storage area</td>
</tr>
<tr>
<td>04062—30º</td>
<td>Angling Assemblies — used to direct the cable from 30 degree - 180 degree bends (in increments of 30 degrees)</td>
</tr>
<tr>
<td>04064—60º</td>
<td>Pipe to Pipe Angling Assembly — used with the Vertical Pipe Extension kit for angling the 3&quot; PVC pipe to a desired angle</td>
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**CABLEMASTER ACCESSORIES**

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<tr>
<td>04146</td>
<td>Radio Remote Control Kit - includes 2 transmitters!</td>
</tr>
<tr>
<td>04147</td>
<td>Spare / replacement transmitter</td>
</tr>
<tr>
<td>04153</td>
<td>RF Noise Filter - improves operational range of transmitter</td>
</tr>
<tr>
<td>04034</td>
<td>Relay Unit - required for addition of Remote on CM-4 models</td>
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</table>

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<td>Pipe to Pipe Angling Assembly — used with the Vertical Pipe Extension kit for angling the 3&quot; PVC pipe to a desired angle</td>
</tr>
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**3 MODELS TO CHOOSE FROM:**

- **CM-4**: Designed for 30 amp cables and comes with an easy-to-install storage container. It's perfect for smaller boats or when space is limited.
- **CM-7**: The workhorse of the Cablemaster line, designed for 50 amp cables. Ideal for medium-sized boats that require a robust solution.
- **CM-8**: The heaviest-duty option, designed for 100 amp cables. Essential for large vessels or facilities requiring the most powerful extension and retraction capabilities.

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**CM-4** (for 30 amp cable)

**CM-7** (for 50 amp cable)

**CM-8** (for 100 amp cable)
Before installing your cablemaster, consider the following three points:

1. **Location for Power Unit & Cable:**

   Perhaps the prime consideration in determining the best location for mounting your Glendinning Cablemaster is to remember that the key to a good installation is allowing enough room for the shore power cable to coil without restriction. The power unit should be mounted directly over the storage container, but may be offset a maximum of 20 degrees where space deems it to be necessary. Here are a few pointers to keep in mind when looking at your boat.

   **Minimum Cable Storage Area:**
   - **A. 30 amp cable — 14” x 14” (see Fig. 1)**
     1. For 50 feet of 30 amp 10/3, a minimum of 15” is required from guide roller assembly to the bottom of container.
   - **B. 50 amp cable — 18” x 18” (see Fig. 1)**
     1. For 75 feet of 50 amp 6/4, a minimum of 23” is required from guide roller assembly to the bottom of the storage container. 18” is required from the guide roller assembly to the bottom of the storage container if a 15” x 22” diameter container is used.

   **Suitable Storage Containers:**
   - A. Heavy duty garbage barrel
   - B. Round baitwell
   - C. Any enclosed area free of tubing, wiring or structural projections allowing the cable to free-fall may be used. (Gluing strips of formica to 1” x 2” or 2” x 2” may be suitable in applications where the storage area is close to the rough inside surface of a fiberglass hull)
   - D. Molded styrene containers (16” - 22” in diameter and in varying heights) are available from Glendinning Marine Products, Inc. (see accessory page)

2. **Hawse Pipe & Power Cord Plug Exit:**

   Also be careful to remember that the selection of the hawse pipe location is in a large measure determined by the proper location of the power unit and cable storage area. Be sure that the hawse pipe’s location is practical for common dockage situations. Avoid a location where the shore power cable could present an obstacle on decks or passageways when in use.

3. **Connection to the Boat Electrical System:**

   Prior to the installation of the Cablemaster, consider how the unit is connected to the boat’s electrical system (see drawing right). The blunt cut end of the power cable should exit the bottom of the cable storage area. This end can be connected to the Power Transfer Switch which automatically switches power for your boat’s electrical system between the on-board generator and the shore power cable hook-up, or connected to a junction box.

   The Cablemaster is now “hard-wired” to your boat’s electrical system. It is no longer necessary to use the power cord connection that was part of your yacht’s power system. The power cable must be connected to the boat AC electrical system in accordance with the instructions contained in the National Electrical Code. Care should be taken when installing the white stop collar to ensure that no strain will be placed upon the power cable connection to the electrical system. (NOTE: Leave 1/2 coil in storage container when stop collar activates out limit switch.)

### Warranty

**Product Covered by this Limited Warranty: CableMaster**

1. Glendinning Marine Products, Inc. warrants to the original consumer purchaser that the CableMaster will be free from defects in material and workmanship under normal use and service for a period of one (1) year from the date of purchase.
2. This LIMITED WARRANTY applies to defects in material and workmanship. It does not apply to chromed plated or anodized finish or to power cable damage caused by inadequate cable storage area or installation not in accordance with Glendinning Marine Products, Inc. specifications.
3. This LIMITED WARRANTY is void if the product has been damaged by accident or unreasonable use, neglect, improper installation, or other causes not arising out of defects in material or workmanship.
4. To obtain performance of this LIMITED WARRANTY obligation the original purchaser should contact Glendinning Marine Products, Inc. for instructions concerning removal and shipping of the defective component. Upon compliance of the foregoing procedure all warranted defects will be repaired, or at Glendinning Marine Products, Inc. option, the complete unit replaced and returned to the consumer, shipping charges prepaid.
5. Glendinning Marine Products, Inc. does not assume the costs of removal and/or installation of the product or any other incidental costs which may arise as a result of any defect in materials or workmanship.

This WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY IMPLIED BY LAW INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS, IS IN EFFECT ONLY FOR THE DURATION OF THE EXPRESS WARRANTIES SET FORTH IN THE FIRST PARAGRAPH ABOVE. NO REPRESENTATIVE OR PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTIES TO THE ORIGINAL CONSUMER PURCHASER. ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF IT’S PRODUCTS. GLENDINNING MARINE PRODUCTS, INC. WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR INSTALLATION OF IT’S PRODUCTS.

**For More Information:**

For details and specifications of the CableMaster system, please contact Glendinning Marine Products, Inc.

**Contact Information:**

Glendinning Marine Products, Inc.

114-115 Waterside Drive

Bayonne, NJ 07002

Phone: 201-431-2524

Email: info@glendinningmarine.com

Website: www.glendinningmarine.com
**TYPES OF INSTALLATIONS**

**STANDARD (CLOSE COUPLED) INSTALLATION**

The Cablemaster works best when the power unit is mounted directly above the storage container. This will ensure proper cable extension and retraction and is recommended providing storage space is available where hawse pipe is to be mounted (Fig. 2).

**HORIZONTAL EXTENSION**

When storage space is not available directly under the power unit, the power unit can be moved away from the hawse pipe. The standard and shortest length of the connection between the power unit and the hawse pipe is 6 5/8". This connection may be extended up to 16" through the use of the optional long angle link (CM accessory). The power unit can also be remote mounted up to 12" away from the hawse pipe using the optional horizontal pipe extension and a length of 3" schedule 40 PVC pipe (Fig. 3). In both of these configurations, the power unit will require additional mounting support. An overhead mounting bracket is available which allows the power unit to be remote mounted to the overhead.

**VERTICAL EXTENSION**

Schedule 40 3" dia PVC pipe is also recommended when the shore cable is being directed vertically through the deck. In this installation it is necessary to use the optional vertical pipe extension (see accessory page) and to remove the guide roller assembly from the power unit and relocate it to the bottom of the pipe extension. Since this contains the out-limit switch, it is also necessary to reconnect the out-limit switch by extending the wire to the relay box (Fig. 4).

**OTHER INSTALLATION OPTIONS**

Any number of mounting arrangements can be accomplished using the PVC pipe to remote mount the power unit or guide the shore power cable below deck. The mounting possibilities are further enhanced by the fact that the shore power cable can be directed to the right or left of vertical by adjusting the U-clamps on the hawse pipe (Fig. 5).

**NOTE:** A pipe to pipe angle assembly is available where a straight pipe cannot be used between the hawse pipe and power unit. This angle connector may be used in the horizontal or vertical pipe and is equipped with rollers to provide minimal cable friction. It will work satisfactorily up to 30* degrees (see accessory page).

**NOTE:** The side angle adjustment should not exceed 45 degrees and the use of standard PVC elbows is not recommended as they tend to restrict the movement of the cable within the pipe.

Selection of the hawse pipe location is in a large measure determined by the proper location of the power unit and cable storage area. Be sure that the hawse pipe's location is practical for common dockage situations. Avoid a location where the shore power cable could present an obstacle on decks or passageways when in use. An optional recessed mounting bezel is available which allows the hawse pipe to be flush mounted (see accessory page). Shown at right (Fig. 6 & 7) are other installation possibilities for mounting the power unit and directing the cable to the storage area.
**Installation Instructions**

The Cablemaster system must be mounted in a location that is protected from the marine environment and is certified "ignition protected" for placement in engine rooms. For ideas on specific locations for your boat, contact our service engineer.

**STEP 1: MARK MOUNTING LOCATION FOR HAWSE PIPE**

Using the drawing included with your manual, mark the mounting location of the hawse pipe. Before drilling or cutting, check once again to be certain that the area behind the hawse pipe is free of wires, plumbing or structural supports for the boat. The mounting surface should be a minimum 1/2" thick. The proper thickness can be achieved by using a butt block of marine grade plywood behind the mounting surface.

**STEP 2: CUT CENTER HOLE & MOUNT HAWSE PIPE**

Cut the hawse pipe’s 3-5/8” center hole and drill the four 1/4” mounting holes. Using a good quality marine beading compound, secure the hawse pipe to the boat using the four (4) 1/4 x 20 x 1” stainless steel machine screws, washers, nuts and gasket supplied with the Cablemaster or use longer fasteners that are available locally.

**STEP 3: MOUNT POWER UNIT TO HAWSE PIPE**

The power unit may now be mounted to the hawse pipe using the angle link, the hawse pipe clamp, and U-bolts. In remote power unit installations, the 3” schedule 40 PVC pipe is secured to the power unit using the same standard components adding also the accessories for horizontal pipe extension in order to connect the PVC pipe to the hawse pipe (see Fig. 3 previous page).

**STEP 4: WIRE CABLEMASTER TO ELECTRICAL SYSTEM**

Unless the shore power cable is being directed vertically through a PVC pipe, you are now ready to wire the Cablemaster to the boat’s DC electrical system. If the shore power cable is being directed vertically through PVC pipe (see drawing below) it is necessary to relocate the guide roller assembly with the out-limit switch from the bottom of the power unit to the lower end of the PVC pipe. Wires of appropriate length will have to be spliced into the system to insure the operation of the out-limit switch. A guide roller assembly without the out-limit switch, included in the vertical pipe extension accessory, must be installed between the power unit and the PVC pipe to provide trouble free operation (see accessory page).

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### Parts Diagram

**STEP 1**

Use template on back cover of manual

**STEP 2**

Mount Hawse pipe in hole

**STEP 3**

Mount Hawse pipe to power unit

**STEP 4**

Connect power to Cablemaster relay

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### Accessories

- Vertical Extension
- Relocate guide roller assembly with out-limit switch to end of PVC pipe extension

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- Extension Cablemaster
- PVC pipe extension
- Use template

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<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Use template on back cover of manual</td>
</tr>
<tr>
<td>2</td>
<td>Mount Hawse pipe in hole</td>
</tr>
<tr>
<td>3</td>
<td>Mount Hawse pipe to power unit</td>
</tr>
<tr>
<td>4</td>
<td>Connect power to Cablemaster relay</td>
</tr>
</tbody>
</table>

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### Cablemaster CM-7 Parts Diagram

- Diagram showing various parts and their connections |

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*Figures and diagrams are not included in the text representation.*
Some wiring instructions are basic to the wiring of the Cablemaster regardless what model (CM-4, CM-7 or CM-8) you purchased.

**FIRST,** all wiring should be done in accordance with the instructions contained in the National Electrical Code. If there is any uncertainty as to the proper methods of wiring, a qualified and competent electrician should do the wiring.

**SECOND,** overcurrent protection (fuse or circuit breaker) must be provided in the power supply to the Cablemaster. On 12v DC systems, a 20 amp fuse or circuit breaker should be used; on 24v DC systems, a 15 amp fuse or circuit breaker is required. In addition to providing electrical “overload” protection, a separate breaker for the Cablemaster allows the unit to be turned “off” thus preventing the unauthorized use of the unit when left unattended. This is especially important if the switch is located where it can easily be actuated by children.

Follow the instructions below for the specific model you purchased:

### THE CM-4 POWER UNIT

The CM-4 power unit is wired through a barrier strip. All electrical connections to the barrier strip have been completed at the factory to make for easy installation. All that is required by the installer is to attach the battery to the appropriate terminals on the barrier strip.

Using 12 gauge, stranded wire, the positive DC power supply is connected to the #5 terminal on the barrier strip and the negative to the #6 terminal (see diagram). Be sure to observe proper polarity when connecting the DC input wires.

Both the limit switches are designed to automatically stop the motor when the cable has reached its’ limit of travel. The in-limit switch is located in the hawse pipe gasket ring and is covered by a neoprene cover to shield it from moisture. The in-limit switch, which is connected to the #1 and #2 terminals on the barrier strip, is activated when the plug cover touches the switch.

The out-limit switch, which is connected to the #3 and #4 terminals of the barrier strip, is located in the guide roller assembly mounted on the lower side of the power unit and is activated by a nylon safety collar secured near the terminal end of the shore power cable. The collar, which acts as a positive mechanical “stop” as well as a means to activate the out-limit switches, should be fitted around the shore power cable at a point that allows adequate slack in the cable for unstrained AC electrical connections. If the shore power cable is being directed through the vertical pipe extension, it is necessary to relocate the guide roller assembly with the out-limit switch from the power unit to the lower end of the vertical pipe and to reconnect the out-limit switch using the appropriate lengths of wire.

(NOTE: Failure to install the nylon safety collar and rewire the out-limit switch can result in damage to the shore power cable’s electrical connection.)

The six conductor cable for the power switch is numerically marked to correspond with the numbers on the barrier strip. For convenience and ease of operation, the power switch should be mounted near the hawse pipe or in the appropriate hole with the optional bezel. In each case, the power switch must be protected by the neoprene cover to prevent the intrusion of moisture.
The CM-7 and CM-8 power units are wired through an integral relay assembly for 12 or 24 volt DC depending on your boat's voltage. The voltage for each Cablemaster is located on the unit's label. The Cablemaster should be connected to a separate circuit breaker of appropriate amperage (see Fig. 9) on the main or auxiliary DC electrical distribution panel. In addition to providing electrical "overload" protection, a separate breaker for the Cablemaster allows the unit to be turned "OFF" thus preventing the unauthorized use of the unit when the boat is unattended. This is especially important if the switch is located where it can easily be actuated by children on board.

Be sure to observe the proper polarity when connecting the DC imput wires.

Both the limit switches are designed to automatically stop the motor when the cable has reached it's limit of travel. The in-limit switch is located in the hawse pipe gasket ring and is covered by a neoprene cover to shield it from moisture. The in-limit switch, which is connected to the #4 and #5 terminals on the relay assembly, is activated when the plug cover touches the switch.

The out-limit switch, which is connected to the #6 and #7 terminals of the relay assembly, is located in the guide roller assembly mounted on the lower side of the power unit and is activated by a nylon safety collar secured near the terminal end of the shore power cable. The collar, which acts as a positive mechanical "stop" as well as a means to activate the out-limit switches, would be fitted around the shore power cable at a point that allows adequate slack in the cable for unstrained AC electrical connections (The same collar is used for 6/3 or 6/4 cable). If the shore power cable is being directed through the vertical pipe extension, it is necessary to relocate the guide roller assembly with the out-limit switch from the power unit to the lower end of the vertical pipe and to reconnect the out-limit switch using the appropriate lengths of wire (NOTE: Failure to install the nylon safety collar and rewire the out-limit switch can result in damage to the shore power cable's electrical connection).

The 3 conductor cable for the power switch is color coded to correspond with the terminal strip on the relay assembly. For convenience and ease of operation, the power switch should be mounted near the hawse pipe or in the appropriate hole with the optional bezel (see accessories). In each case, the power switch must be protected by the neoprene cover to prevent the intrusion of moisture.

The relay box is mounted on a sub-plate and may be attached to the power unit cover screws in two ways (see label on sub-plate). This provides easy access in making wiring connections. If desirable, it may also be mounted on a bulkhead close by to the power unit making sure that the connecting wires are fastened away from the pulley and rollers.

NOTE 1: On installation of the CM-7 or CM-8 Cablemaster, convenient temporary operation or remote control of the Cablemaster by the installer may be desirable. With the power switch, limit switches and battery connected, first jumper #1 and #2 to retract cable, then jumper #1 and #3 to extend cable. This enables the installer to directly supervise the coiling of the cable at the storage area. Remove when Cablemaster installation is complete.

NOTE 2: Do not attach voltage wires to the motor wires while they are still fastened to the barrier strip. This will cause a short in the relay assembly. Remove the motor wires from the barrier strip then connect battery power to the motor wires for check-out of motor operation.

Cablemaster Wiring Instructions (Con't.)

Specifications:

- Voltage: 12v DC or 24v DC
- Amperage: 4-5 amps under load
- Dimensions: 5-1/2" L x 6" W x 10" H (power unit only)
- Weight: 9 lbs.
- Capacity: 30amp 110 volt cable 3/4" diameter
- Length of cable: determined by available storage space

CM-4 DIMENSIONS

<table>
<thead>
<tr>
<th>Specification</th>
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<td>Voltage</td>
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NOTE 1: On installation of the CM-7 or CM-8 Cablemaster, convenient temporary operation or remote control of the Cablemaster by the installer may be desirable. With the power switch, limit switches and battery connected, first jumper #1 and #2 to retract cable, then jumper #1 and #3 to extend cable. This enables the installer to directly supervise the coiling of the cable at the storage area. Remove when Cablemaster installation is complete.

NOTE 2: Do not attach voltage wires to the motor wires while they are still fastened to the barrier strip. This will cause a short in the relay assembly. Remove the motor wires from the barrier strip then connect battery power to the motor wires for check-out of motor operation.
**Power Cable Installation**

Before installing the power cable into the Cablemaster, stretch the cable out in a straight line on a smooth surface to remove any kinks or unnatural coils. Feed the "blunt cut" end of the cable into the power unit. Retract the power cable, using the power switch or manually. Before connecting the power cable to boat’s AC electrical system, secure the nylon safety collar and refer to the Cable Adjustment section below to pre-adjust the pulley to the proper cable size and to insure trouble-free operation of your Cablemaster. The power cable should be firmly strapped down, using metal or heavy duty plastic wiring straps, to the bottom of the cable storage area so that in no way will the Cablemaster pull on the power cable’s electrical connection.

In actual usage of your Cablemaster, you will find that the power cable is seldom payed out completely. Because of this, it is advisable to occasionally pay out the cable completely and allow the cable to recoil into its natural coil.

The power cable must be connected to your boat’s AC electrical system in accordance with the instructions contained in the National Electrical Code. Care should be taken when adjusting the out-limit collar to ensure that no strain will be placed upon the power cable connection to the electrical system.

**Cable Adjustment**

Shore power cable diameters vary from one cable manufacturer to another, the Cablemaster’s main pulley is split in half and proper friction adjustment between the cable and main pulley is necessary at the time of installation. Too tight adjustment will overload the motor. On the other hand, too loose an adjustment will result in slippage of the cable or no movement of the cable.

The Cablemaster should be able to pay in and out the cable without any slippage or any undue strain depending on the installation, and distance from the Hawse Pipe to the Cablemaster. Some assistance will be required when extending power cord on long extension runs or multiple bend installations. Retracting the power cord should not be any problem.

To adjust the friction between the main pulley and the power cable follow the instructions below:

1) Remove the 1/4” nuts and lockwashers from the face of the main pulley and remove the outer pulley half.
2) Remove or add only equal amounts of spacers for each bolt.
3) Replace the pulley half and secure the nuts.

*When adjusting pulley friction, only add (decreases tension) or remove (increases tension) one (1) spacer from each bolt before checking the unit for the correct pulley friction. One spacer makes a substantial difference in cable tension.*

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**Specifications**

- **Voltage:** 12v DC (24v available)
- **Current:** 7-9 Amps under load
- **Weight:** 21 lbs. (power unit)
- **Weight:** 8 lbs. (hawse pipe)
- **Cable size:** 6/4, 50 amp, 220 v adjustable (7/8” - 1-1/4” dia.)
- **Length capacity:** Determined by size or storage location

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**Cablemaster Dimensions**

**CM-7 Dimensions**

**Specifications**

| Voltage: | 12v DC (24v available) |
| Current: | 7-9 Amps under load |
| Weight:  | 21 lbs. (power unit) |
| Weight:  | 8 lbs. (hawse pipe) |
| Cable size: | 6/4, 50 amp, 220 v adjustable (7/8” - 1-1/4” dia.) |
| Length capacity: | Determined by size or storage location |

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**Power Cable Installation**

Before installing the power cable into the Cablemaster, stretch the cable out in a straight line on a smooth surface to remove any kinks or unnatural coils. Feed the "blunt cut" end of the cable into the power unit. Retract the power cable, using the power switch or manually. Before connecting the power cable to boat’s AC electrical system, secure the nylon safety collar and refer to the Cable Adjustment section below to pre-adjust the pulley to the proper cable size and to insure trouble-free operation of your Cablemaster. The power cable should be firmly strapped down, using metal or heavy duty plastic wiring straps, to the bottom of the cable storage area so that in no way will the Cablemaster pull on the power cable’s electrical connection.

In actual usage of your Cablemaster, you will find that the power cable is seldom payed out completely. Because of this, it is advisable to occasionally pay out the cable completely and allow the cable to recoil into its natural coil.

The power cable must be connected to your boat’s AC electrical system in accordance with the instructions contained in the National Electrical Code. Care should be taken when adjusting the out-limit collar to ensure that no strain will be placed upon the power cable connection to the electrical system.

**Cable Adjustment**

Shore power cable diameters vary from one cable manufacturer to another, the Cablemaster’s main pulley is split in half and proper friction adjustment between the cable and main pulley is necessary at the time of installation. Too tight adjustment will overload the motor. On the other hand, too loose an adjustment will result in slippage of the cable or no movement of the cable.

The Cablemaster should be able to pay in and out the cable without any slippage or any undue strain depending on the installation, and distance from the Hawse Pipe to the Cablemaster. Some assistance will be required when extending power cord on long extension runs or multiple bend installations. Retracting the power cord should not be any problem.

To adjust the friction between the main pulley and the power cable follow the instructions below:

1) Remove the 1/4” nuts and lockwashers from the face of the main pulley and remove the outer pulley half.
2) Remove or add only equal amounts of spacers for each bolt.
3) Replace the pulley half and secure the nuts.

*When adjusting pulley friction, only add (decreases tension) or remove (increases tension) one (1) spacer from each bolt before checking the unit for the correct pulley friction. One spacer makes a substantial difference in cable tension.*
WARNING: It is extremely important that the wiring of the power cord to your boat’s electrical system be done properly. If there is any uncertainty as to the proper methods of working with AC wiring, a qualified and competent electrician should do this wiring. Failure to wire correctly may result in DEATH, INJURY, OR DAMAGE TO PERSONS OR VESSELS.

In all electrical applications, minimizing the entrance or accumulation of moisture or water is of prime importance. Junction boxes, receptacles, breakers and other enclosures in which electrical connections are made should be waterproof or be installed in a protected area.

Electricity enters the boat through the power cable. The cable is connected to the Power Transfer Switch which automatically switches power for your boat's electrical system between the on-board generator and the shore power cable hook up. The Power Transfer Switch is then connected to the AC panel board through a main circuit breaker. The power is transferred to the various branch circuits by way of individual branch circuit breakers.

Good practice when installing the Cablemaster is to place a waterproof circuit breaker in the system on the boat’s exterior in close proximity to the Cablemaster hawse pipe. This circuit breaker automatically interrupts the flow of current if the current exceeds the amount the circuit is designed to handle (ie: 30amp or 50amp). This is common practice recommended by ABYC where the distance from the shore power cable inlet is more than 10' away from the AC panelboard.

When two Cablemaster units are used on port and starboard installations, the shore power cables must be wired through an approved rotary transfer switch before connection to the main circuit breaker on the AC panelboard. This will provide a safe interlock when switching from one shoreside power source to another.

Remember also that your boat’s AC electrical system is “polarized.” Polarization of conductors must be observed in the shore cable connections and throughout the entire AC system.

Experience has shown that when only a short section of the power cable is regularly used, the cable may be subject to sharper than normal coiling which in turn causes undue “kinking” of the cable. To relieve this condition, routinely pay the cable out completely and stretch it on any smooth surface. Allow the cable to settle to sharper than normal coiling which in turn causes undue “kinking” of the cable. To relieve this condition, routinely pay the cable out completely and stretch it on any smooth surface. Allow the cable to settle.

At least once a year, check all AC and DC wiring connections to be sure they are secure and free of corrosion. Check the neoprene covers on the in-limit switch and power switch to be sure they are free of cracks or fracture. Periodically, inspect the exterior jacket of your shore power cable for nicks or cuts. If your shore power cable is dirty DO NOT USE any cleaner that will leave a waxy film on the shore power cable. The waxy film will cause slippage between the Cablemaster’s main pulley and your shore power cable. It is recommended to use a mild soap and water to clean your cable.

AC Wiring Instructions

Wiring Instructions

Electricity enters the boat through the power cable. The cable is connected to the Power Transfer Switch which automatically switches power for your boat’s electrical system between the on-board generator and the shore power cable hook up. The Power Transfer Switch is then connected to the AC panel board through a main circuit breaker. The power is transferred to the various branch circuits by way of individual branch circuit breakers.

Good practice when installing the Cablemaster is to place a waterproof circuit breaker in the system on the boat’s exterior in close proximity to the Cablemaster hawse pipe. This circuit breaker automatically interrupts the flow of current if the current exceeds the amount the circuit is designed to handle (ie: 30amp or 50amp). This is common practice recommended by ABYC where the distance from the shore power cable inlet is more than 10’ away from the AC panelboard.

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Remember also that your boat’s AC electrical system is “polarized.” Polarization of conductors must be observed in the shore cable connections and throughout the entire AC system.

Operation of the Cablemaster

Cablemaster Operating Instructions for CM-4, CM-7, CM-8 Models:

To Extend Cable:

1) Flip the power switch to OUT position; grasp the power cord plug.
2) Walk to dock power source and plug power cord into recepticle.
3) Cablemaster will automatically shut itself OFF when cable has fully extended. If less cable is more desirable, turn switch OFF and place in the IN position.
4) Turn power switch OFF when desired cable length is achieved.

To Retract Cable:

1) Disconnect the power cord plug from the dock power source.
2) While holding power plug, walk to Cablemaster.
3) Flip the power switch to the IN position.
4) Cablemaster will automatically shut itself OFF when cable has fully retracted. **Do not move vessel until cable is fully retracted!**

Trouble Shooting Guide

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- Power wire incorrectly connected to relay assembly  
- Defective motor  
- Defective relay box | - Reset breaker  
- Replace relay assembly  
- Check power switch  
- Check polarity on DC input wires |
| Pays out cable only | - In-Limit switch circuit open  
- Power inputs reversed  
- Defective relay or diode  
- Bad power switch | - Check in-limit switch  
- Replace relay assembly  
- Check power switch |
| Retracts cable only | - Out-Limit switch circuit open  
- Defective relay  
- Bad power switch | - Check out-limit switch  
- Replace relay assembly  
- Check power switch |
| Tripped DC breaker | - Main pulley too tight  
- Cable jammed and kinking  
- Defective motor | - Adjust pulley  
- Check for adequate storage space and/or cable for undue kinking — see Cable Adjustment (pg. 7)  
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Remember also that your boat’s AC electrical system is “polarized.” Polarization of conductors must be observed in the shore cable connections and throughout the entire AC system.

Maintenance

Experience has shown that when only a short section of the power cable is regularly used, the cable may be subject to sharper than normal coiling which in turn causes undue “kinking” of the cable. To relieve this condition, routinely pay the cable out completely and stretch it on any smooth surface. Allow the Cablemaster to then retract the cable into the cable storage area.

At least once a year, check all AC and DC wiring connections to be sure they are secure and free of corrosion. Check the neoprene covers on the in-limit switch and power switch to be sure they are free of cracks or fracture.

Periodically, inspect the exterior jacket of your shore power cable for nicks or cuts. If your shore power cable is dirty DO NOT USE—any cleaner that will leave a waxy film on the shore power cable. The waxy film will cause slippage between the Cablemaster’s main pulley and your shore power cable. It is recommended to use a mild soap and water to clean your cable.

Trouble Shooting Guide

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The power cable must be connected to your boat’s AC electrical system in accordance with the instructions contained in the National Electrical Code. Care should be taken when adjusting the out-limit collar to ensure that no strain will be placed upon the power cable connection to the electrical system.

To adjust the friction between the main pulley and the power cable follow the instructions below:

1) Remove the 1/4” nuts and lockwashers from the face of the main pulley and remove the outer pulley half.
2) Remove or add* only equal amounts of spacers for each bolt.
3) Replace the pulley half and secure the nuts.

*When adjusting pulley friction, only add (decreases tension) or remove (increases tension) one (1) spacer from each bolt before checking the unit for the correct pulley friction. One spacer makes a substantial difference in cable tension.

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*When adjusting pulley friction, only add (decreases tension) or remove (increases tension) one (1) spacer from each bolt before checking the unit for the correct pulley friction. One spacer makes a substantial difference in cable tension.

**The power cable must be connected to your boat’s AC electrical system in accordance with the instructions contained in the National Electrical Code. Care should be taken when adjusting the out-limit collar to ensure that no strain will be placed upon the power cable connection to the electrical system.
The CM-7 and CM-8 power units are wired through an integral relay assembly for 12 or 24 volt DC depending on your boat’s voltage. The voltage for each Cablemaster is located on the unit’s label. The Cablemaster should be connected to a separate circuit breaker of appropriate amperage (see Fig. 9) on the main or auxiliary DC electrical distribution panel. In addition to providing electrical “overload” protection, a separate breaker for the Cablemaster allows the unit to be turned “OFF” thus preventing the unauthorized use of the unit when the boat is unattended. This is especially important if the switch is located where it can easily be actuated by children on board.

Be sure to observe the proper polarity when connecting the DC input wires.

Both the limit switches are designed to automatically stop the motor when the cable has reached its limit of travel. The in-limit switch is located in the hawse pipe gasket ring and is covered by a neoprene cover to shield it from moisture. The out-limit switch, which is connected to the #4 and #5 terminals on the relay assembly, is activated when the plug cover touches the switch.

The out-limit switch, which is connected to the #6 and #7 terminals of the relay assembly, is located in the guide roller assembly mounted on the lower side of the power unit and is activated by a nylon safety collar secured near the terminal end of the shore power cable. The collar, which acts as a positive mechanical “stop” as well as a means to activate the out-limit switches, would be fitted around the shore power cable at a point that allows adequate slack in the cable for unstrained AC electrical connections (The same collar is used for 6/3 or 6/4 cable). If the shore power cable is being directed through the vertical pipe extension, it is necessary to relocate the guide roller assembly with the out-limit switch from the power unit to the lower end of the vertical pipe and to reconnect the out-limit switch using the appropriate lengths of wire (NOTE: Failure to install the nylon safety collar and rewire the out-limit switch can result in damage to the shore power cable’s electrical connection).

The 3 conductor cable for the power switch is color coded to correspond with the terminal strip on the relay assembly. For convenience and ease of operation, the power switch should be mounted near the hawse pipe or in the appropriate hole with the optional bezel (see accessories). In each case, the power switch must be protected by the neoprene cover to prevent the intrusion of moisture.

The relay box is mounted on a sub-plate and may be attached to the power unit cover screws in two ways (see label on sub-plate). This provides easy access in making wiring connections. If desirable, it may also be mounted on a bulkhead close to the power unit making sure that the connecting wires are fastened away from the pulley and rollers.

NOTE 1: On installation of the CM-7 or CM-8 Cablemaster, convenient temporary operation or remote control of the Cablemaster by the installer may be desirable. With the power switch, limit switches and battery connected, first jumper #1 and #2 to retract cable, then jumper #1 and #3 to extend cable. This enables the installer to directly supervise the coiling of the cable at the storage area. Remove when Cablemaster installation is complete.

NOTE 2: Do not attach voltage wires to the motor wires while they are still fastened to the barrier strip. This will cause a short in the relay assembly. Remove the motor wires from the barrier strip then connect battery power to the motor wires for check-out of motor operation.

Specifications:

- **Voltage**: 12v DC or 24v DC
- **Amperage**: 4-5 amps under load
- **Dimensions**: 5-1/2” L x 6” W x 10” H (power unit only)
- **Weight**: 9 lbs.
- **Capacity**: 30amp 110 volt cable 3/4” diameter
- **Length of cable**: determined by available storage space

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**CM-4 DIMENSIONS**

**Specifications:**

- **Voltage**: 12v DC or 24v DC
- **Amperage**: 4-5 amps under load
- **Dimensions**: 5-1/2” L x 6” W x 10” H (power unit only)
- **Weight**: 9 lbs.
- **Capacity**: 30amp 110 volt cable 3/4” diameter
- **Length of cable**: determined by available storage space

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**Maintenance Instructions**

- **Regular Inspection**: Conduct regular inspections of the Cablemaster and storage container to ensure optimal performance and safety.
- **Cleanliness**: Keep the Cablemaster unit clean and free from debris or moisture to prevent malfunction.
- **Storage Container**: The storage container is not included in the standard package. Ensure the container is suitable and secure to protect the Cablemaster during storage.

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**Customer Service**

- **Contact Information**: GLENDINNING MARINE PRODUCTS, INC.
  - Conway, SC   843-399-6146
  - 12v DC use 20 amp breaker
  - 24v DC use 5 amp breaker

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**Electrical Connections**

- **Positive (P)**: Black
- **Negative (E)**: White
- **Power (P)**: Red
- **Motor (M)**: Orange

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**Diagram Details**

- **Relay Assembly**: Includes limit switches and power switch connected to the battery and motor terminals.
- **Wiring Instructions**: Follow the color-coded connections specified in the diagram for proper installation.

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**Accessories**

- **Bezel**: Optional accessory for mounting the power switch near the hawse pipe or in an appropriate hole.
- **Storage Container**: Not included in the standard package. Select a suitable container to ensure proper storage of the Cablemaster.

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**Important Notes**

- **Overload Protection**: Use a separate breaker for each Cablemaster to prevent unauthorized use.
- **Limit Switches**: In-limit switch is located in the hawse pipe, while the out-limit switch is on the relay assembly.
- **Cable Management**: Ensure proper slack in the cable to prevent strain on the connections.
CableMaster Wiring Instructions

Some wiring instructions are basic to the wiring of the CableMaster regardless what model (CM-4, CM-7 or CM-8) you purchased.

First, all wiring should be done in accordance with the instructions contained in the National Electrical Code. If there is any uncertainty as to the proper methods of wiring, a qualified and competent electrician should do the wiring.

Second, overcurrent protection (fuse or circuit breaker) must be provided in the power supply to the CableMaster. On 12v DC systems, a 20 amp fuse or circuit breaker should be used; on 24v DC systems, a 15 amp fuse or circuit breaker is required. In addition to providing electrical “overload” protection, a separate breaker for the CableMaster allows the unit to be turned “off” thus preventing the unauthorized use of the unit when left unattended. This is especially important if the switch is located where it can easily be actuated by children.

Follow the instructions below for the specific model you purchased:

The CM-4 Power Unit is wired through a barrier strip. All electrical connections to the barrier strip have been completed at the factory to make for easy installation. All that is required by the installer is to attach the battery to the appropriate terminals on the barrier strip.

Using 12 gauge, stranded wire, the positive DC power supply is connected to the #5 terminal on the barrier strip and the negative to the #6 terminal (see drawing right). Be sure to observe proper polarity when connecting the DC input wires.

Both the limit switches are designed to automatically stop the motor when the cable has reached its’ limit of travel. The in-limit switch is located in the hawse pipe gasket ring and is covered by a neoprene cover to shield it from moisture. The in-limit switch, which is connected to the #1 and #2 terminals on the barrier strip, is activated when the plug cover touches the switch.

The out-limit switch, which is connected to the #3 and #4 terminals of the barrier strip, is located in the guide roller assembly mounted on the lower side of the power unit and is activated by a nylon safety collar secured near the terminal end of the shore power cable. The collar, which acts as a positive mechanical “stop” as well as a means to activate the out-limit switches, should be fitted around the shore power cable at a point that allows adequate slack in the cable for unstrained AC electrical connections. If the shore power cable is being directed through the vertical pipe extension, it is necessary to relocate the guide roller assembly with the out-limit switch from the power unit to the lower end of the vertical pipe and to reconnect the out-limit switch using the appropriate lengths of wire.

The six conductor cable for the power switch is numerically marked to correspond with the numbers on the barrier strip. For convenience and ease of operation, the power switch should be mounted near the hawse pipe or in the appropriate hole with the optional bezel. In each case, the power switch must be protected by the neoprene cover to prevent the intrusion of moisture.

Specs:
- Voltage: 12v DC (24v DC available).
- Current: 7 - 11 Amps under load
- Weight: 40 lbs. (Power unit) - 12 lbs. (Hawse pipe)
- Cable size: up to 2 gauge - 5 conductor, 100 amp adjustable (1.325” - 1.650” dia.)
- Length capacity: determined by size of storage location
- Material: 6061 Aluminum
- Finish: Power Unit: Gold Anodize, Hawse Pipe: Gold or Clear Anodize

CM-8 Dimensions:
- Vertical Extension kit
- NEW position for Out-limit switch / Guide Roller Assembly

Typical CM-4 Barrier Strip Wiring:
- Installer needs only to attach battery power to barrier strip

DC MOTOR
- GREEN
- YELLOW
- BROWN
- BLUE
- BLACK
- RED

POWER SWITCH
- BLACK RED
- GREEN
- BLUE
- BLACK WHITE

Typical CM-4 Barrier Strip Wiring:
- Wire colors correspond to numbers on barrier strip
- Installer needs only to attach battery power to barrier strip
**Installation Instructions**

The Cablemaster system must be mounted in a location that is protected from the marine environment and is certified "ignition protected" for placement in engine rooms. For ideas on specific locations for your boat, contact our service engineer.

**STEP 1: MARK MOUNTING LOCATION FOR HAWSE PIPE**

Using the drawing included with your manual, mark the mounting location of the hawse pipe. Before drilling or cutting, check once again to be certain that the area behind the hawse pipe is free of wires, plumbing or structural supports for the boat. The mounting surface should be a minimum 1/2" thick. The proper thickness can be achieved by using a butt block of marine grade plywood behind the mounting surface.

**STEP 2: CUT CENTER HOLE & MOUNT HAWSE PIPE**

Cut the hawse pipe’s 3-5/8" center hole and drill the four 1/4" mounting holes. Using a good quality marine beading compound, secure the hawse pipe to the boat using the four (4) 1/4 x 20 x 1” stainless steel machine screws, washers, nuts and gasket supplied with the Cablemaster or use longer fasteners that are available locally.

**STEP 3: MOUNT POWER UNIT TO HAWSE PIPE**

The power unit may now be mounted to the hawse pipe using the angle link, the hawse pipe clamp, and U-bolts. In remote power unit installations, the 3” schedule 40 PVC pipe is secured to the power unit using the same standard components adding also the accessories for horizontal pipe extension in order to connect the PVC pipe to the hawse pipe (see Fig. 3 previous page).

**STEP 4: WIRE CABLEMASTER TO ELECTRICAL SYSTEM**

Unless the shore power cable is being directed vertically through a PVC pipe, you are now ready to wire the Cablemaster to the boat’s DC electrical system. If the shore power cable is being directed vertically through PVC pipe (see drawing below) it is necessary to relocate the guide roller assembly with the out-limit switch from the bottom of the power unit to the lower end of the PVC pipe. Wires of appropriate length will have to be spliced into the system to insure the operation of the out-limit switch. A guide roller assembly without the out-limit switch, included in the vertical pipe extension accessory, must be installed between the power unit and the PVC pipe to provide trouble free operation (see accessory page).

**Vertical Extension**

Relocate guide roller assembly with out-limit switch to end of PVC pipe extension
**TYPES OF INSTALLATIONS**

**STANDARD (CLOSE COUPLED) INSTALLATION**

The Cablemaster works best when the power unit is mounted directly above the storage container. This will ensure proper cable extension and retraction and is recommended providing storage space is available where hawse pipe is to be mounted (Fig. 2).

**HORIZONTAL EXTENSION**

When storage space is not available directly under the power unit, the power unit can be moved away from the hawse pipe. The standard and shortest length of the connection between the power unit and the hawse pipe is 6 5/8". This connection may be extended up to 16" through the use of the optional long angle link (CM accessory). The power unit can also be remote mounted up to 12" away from the hawse pipe using the optional horizontal pipe extension and a length of 3" schedule 40 PVC pipe (Fig. 3). In both of these configurations, the power unit will require additional mounting support. An overhead mounting bracket is available which allows the power unit to be remote mounted to the overhead.

**VERTICAL EXTENSION**

Schedule 40 3" dia PVC pipe is also recommended when the shore cable is being directed vertically through the deck. In this installation it is necessary to use the optional vertical pipe extension (see accessory page) and to remove the guide roller assembly from the power unit and relocate it to the bottom of the pipe extension. Since this contains the out-limit switch, it is also necessary to reconnect the out-limit switch by extending the wire to the relay box (Fig. 4).

**OTHER INSTALLATION OPTIONS**

Any number of mounting arrangements can be accomplished using the PVC pipe to remote mount the power unit or guide the shore power cable below deck. The mounting possibilities are further enhanced by the fact that the shore power cable can be directed to the right or left of vertical by adjusting the U-clamps on the hawse pipe (Fig. 5).

**NOTE**:

A pipe to pipe angle assembly is available where a straight pipe cannot be used between the hawse pipe and power unit. This angle connector may be used in the horizontal or vertical pipe and is equipped with rollers to provide minimal cable friction. It will work satisfactorily up to 30° degrees (see accessory page).

**NOTE**:

The side angle adjustment should not exceed 45 degrees and the use of standard PVC elbows is not recommended as they tend to restrict the movement of the cable within the pipe.

Selection of the hawse pipe location is in a large measure determined by the proper location of the power unit and cable storage area. Be sure that the hawse pipe's location is practical for common dockage situations. Avoid a location where the shore power cable could present an obstacle on decks or passageways when in use. An optional retracted mounting bezel is available which allows the hawse pipe to be flush mounted (see accessory page). Shown at right (Fig. 6 & 7) are other installation possibilities for mounting the power unit and directing the cable to the storage area.

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**Cablemaster Wiring Diagram**

- **Figure 2**: Horizontal Extension
- **Figure 3**: Vertical Extension
- **Figure 4**: Other Installation Options
- **Figure 5**: Power unit is turned for a low-profile configuration
**Installation Overview**

Before installing your Cablemaster, consider the following three points:

1. **Location for Power Unit & Cable**:
   - Perhaps the prime consideration in determining the best location for mounting your Glendinning Cablemaster is to remember that the key to a good installation is allowing enough room for the shore power cable to coil without restriction. The power unit should be mounted directly over the storage container, but may be offset a maximum of 20 degrees where space deems it to be necessary. Here are a few pointers to keep in mind when looking at your boat.

2. **Hawse Pipe & Power Cord Plug Exit**:
   - Also be careful to remember that the selection of the hawse pipe location is in a large measure determined by the proper location of the power unit and cable storage area. Be sure that the hawse pipe’s location is practical for common dockage situations. Avoid a location where the shore power cable could present an obstacle on decks or passageways when in use.

3. **Connection to the Boat Electrical System**:
   - Prior to the installation of the Cablemaster, consider how the unit is connected to the boat’s electrical system (see drawing right). The blunt cut end of the power cable should exit the bottom of the cable storage area. This end can be connected to the Power Transfer Switch which automatically switches power for your boat’s electrical system between the on-board generator and the shore power cable hook-up, or connected to a junction box.

   The Cablemaster is now “hard-wired” to your boat’s electrical system. It is no longer necessary to use the power cord connection that was part of your yacht’s power system.

   The power cable must be connected to the boat AC electrical system in accordance with the instructions contained in the National Electrical Code. Care should be taken when installing the white stop collar to ensure that no strain will be placed upon the power cable connection to the electrical system. (Note: Leave 1/2 coil in storage container when stop collar activates out limit switch.)

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**Minimum Cable Storage Area**:

A. 30 amp cable — 14” x 14” (see Fig. 1)
   - For 50 feet of 30 amp 10/3, a minimum of 15” is required from guide roller assembly to the bottom of container.

B. 50 amp cable — 18” x 18” (see Fig. 1)
   - For 75 feet of 50 amp 6/4, a minimum of 23” is required from guide roller assembly to the bottom of the storage container. 18” is required from the guide roller assembly to the bottom of the storage container if a 15” x 22” diameter container is used.

**Suitable Storage Containers**:

A. Heavy duty garbage barrel
B. Round baitwell
C. Any enclosed area free of tubing, wiring or structural projections allowing the cable to free-fall may be used. (Gluing strips of formica to 1” x 2” or 2” x 2” may be suitable in applications where the storage area is close to the rough inside surface of a fiberglass hull)
D. Molded styrene containers (16” - 22” in diameter and in varying heights) are available from Glendinning Marine Products, Inc. (see accessory page)

**Fig. 1**

14” dia. for 30 amp
OR 18” dia. for 50 amp

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**Warranty**

Product covered by this limited warranty: Cablemaster

1. GLENDINNING MARINE PRODUCTS, INC. warrants to the original consumer purchaser that the Cablemaster will be free from defects in material and workmanship under normal use and service for a period of one (1) year from the date of purchase.

2. This LIMITED WARRANTY applies to defects in material and workmanship. It does not apply to chromeplated or anodized finish or to power cable damage caused by inadequate cable storage area or installation not in accordance with GLENDINNING MARINE PRODUCTS, INC. specifications.

3. This LIMITED WARRANTY is void if the product has been damaged by accident or unreasonable use, neglect, improper installation, or other causes not arising out of defects in material or workmanship.

4. To obtain performance of this LIMITED WARRANTY obligation the original purchaser should contact GLENDINNING MARINE PRODUCTS, INC. for instructions concerning removal and shipping of the defective component. Upon compliance of the foregoing procedure all warranted defects will be repaired, or at GLENDINNING MARINE PRODUCTS, INC. option, the complete unit replaced and returned to the consumer, shipping charges prepaid.

5. GLENDINNING MARINE PRODUCTS, INC. does not assume the costs of removal and/or installation of the product or any other incidental costs which may arise as a result of any defect in materials or workmanship.

**This Warranty Is in Lieu of All Other Express Warranties. Any Warranty Implied by Law Including Warranties of Merchantability or Fitness, is in Effect Only for the Duration of the Express Warranties Set Forth in the First Paragraph Above. No Representative or Person is Authorized to Give Any Other Warranty or to Assume for GLENDINNING MARINE PRODUCTS, INC. Any Other Liability in Connection with the Sale of It’s Products. GLENDINNING MARINE PRODUCTS, INC. Will Not Be LIABLE for Any Consequential Damages Resulting from the Use or Installation of It’s Products.**
All Cablemasters are designed to eliminate the physically demanding task of paying out and coiling up your shore power cable. Powered extension and retraction is available at the flip of a switch! There are 3 models to choose from:

1) **CM-4 Cablemaster** — the CM-4 was designed to handle 30 amp shore power cable. The CM-4 usually comes attached to its own storage container to make installation as easy as possible. You may also order the CM-4 with TV/telephone cable installed instead of 30 amp shore power cable.

2) **CM-7 Cablemaster** — the CM-7 (the workhorse of the Cablemaster line) was designed to handle 50 amp shore power cable.

3) **CM-8 Cablemaster** — the CM-8 is our “heavy duty” version of the CM-7. The CM-8 will handle 100 amp shore power cable. You definitely don’t want to be extending and retracting this heavy cable by hand!

All of these units can be configured to your boat’s specifications by utilizing the many accessories which aid in installation and operation of the Cablemaster.
INTRODUCTION

Welcome to the Glendinning family of quality marine products. Your new Cablemaster carries the same assurance of quality that has stood behind every product from Glendinning Marine Products for over 30 years—our pride of our reputation for quality products and service.

While installation on most boats is straightforward and easy, for those perplexing situations, nothing beats a qualified marine electrician. Using common sense about safety and a sound mechanical approach during the installation, the Cablemaster will provide many hours of trouble-free service.

All Cablemasters have been designed to pay out and retract shore power cables without overloading the motor within the system's power unit. Properly adjusted, a Cablemaster will drag 75 feet (maximum) of shore power cable without slippage.

The Cablemaster consists of two major components; the hawse pipe and power unit. The chromed hawse pipe is designed to accommodate varying sizes of shore power cables with the attached 30 or 50amp shore power plug cover. Within the hawse pipe, a neoprene gasket/wiper prevents the entrance of water and helps clean the cable as it is retracted into the boat. When the cable is retracted completely, the plug cover actuates the in-limit switch which is mounted on the face of the gasket plate inside the hawse pipe.

The drive motor, reduction gearing, guide roller assembly and the relay assembly comprise the power unit. The chromed hawse pipe clamp and a length of extruded aluminum angle. The hawse pipe clamp allows the power unit to be angled to either side of vertical directing the shore power cable toward the storage compartment. The main pulley of the Cablemaster is also freewheeling which allows the cable to be manually paid in or out.

The out-limit switch is located in the guide roller assembly. The nylon safety collar, which is installed around the shore power cable, activates the out-limit switch. This collar also serves as a mechanical stopping device should the limit switch fail or should the shore power cable be forcibly pulled outward.

ATTENTION!

In preparing this manual, Glendinning Marine Products, Inc. has relied upon the standards established by the National Electric Code and the recommended practices and standards for AC electrical systems for vessels prepared by the American Boat and Yacht Council, Inc. This manual reflects practices and standards in effect at the time of publication and is intended only as a guide to understand the Cablemaster. Glendinning Marine Products, Inc. will not be liable for any loss, damage, incidental or consequential damages of any kind, arising in connection with the use or reliance upon this manual.

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Thank You...

for buying the Glendinning Cablemaster. At Glendinning, we are committed to providing you, our customer, with a product that will yield trouble-free service. Care has been taken during each phase of the manufacturing process to guarantee a lifetime of quality and performance—after all, our name is on it!

Paul & John Glendinning

Cablemaster Product Registration

Please take a moment to validate your product warranty by mailing in this card with the proper information.

Follow these simple steps:

Or Send via Fax to: (843) 399-5005

CABLEMASTER WARRANTY REGISTRATION

NAME

ADDRESS

CITY STATE ZIP

COUNTRY PHONE EMAIL

BOAT MODEL & YEAR OF MANUFACTURE

CABLEMASTER SERIAL NUMBER

WHAT WOULD YOU LIKE TO SEE IMPROVED/CHANGED?

THANK YOU!
Hawse Pipe Template

Diameter 3-5/8" cut on outside of line

Diameter 17/64" 4 Pcs.

PRODUCT WARRANTY INFORMATION

PLACE STAMP HERE

740 CENTURY CIRCLE
CONWAY, SC 29526-8274
USA

SML-CMMAN PRINT DATE: 06/08

GUIDE TO:
• DESCRIPTION
• INSTALLATION
• OPERATION

CM-7 for 50 amp
CM-4 for 30 amp
CM-8 for 100 amp

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