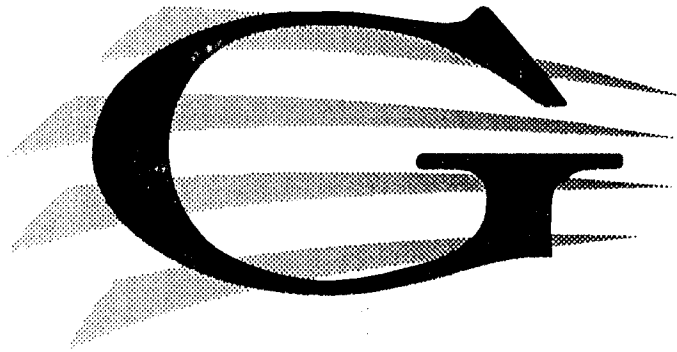


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Genave®

GLH200 PLUS+

**HIGH POWER
LOUDHAILER AND INTERCOM**

INSTRUCTION & MAINTENANCE MANUAL

GENAVE/ NRC

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SECTION 1

GENERAL INFORMATION

1-1 INTRODUCTION

This manual contains the necessary information to install, operate, and maintain the Genave/NRC GLH-200 Loudhailer plus.

1-2 DESCRIPTION

The GLH-200 is a 100 Watt loudhailer, siren & intercom that employs multiple controlheads for its siren and hail functions as well as multiple callboxes that communicate between each other and the controlheads. The GLH-200 utilizes the latest in microprocessors within the controlheads and master unit.

1-3 EQUIPMENT

Depending upon the configuration ordered by the customer, a GLH-200 system will have one or more of the following:

- Master Unit [1]
- Control heads [1 to 2]
- Call boxes [1 to 5]
- Driver Unit [1 to 4]
- Microphones [1 per control head]
- Speakers [1 per control head]
- Bulkhead cable assembly [1 per control head]
- Foghorn button [1 per control head]

1-4 EQUIPMENT NOT SUPPLIED

- Assorted screws
- Cables
- Waterlight connectors
- Mounting plates for driver to boat

1-5 SPECIFICATIONS

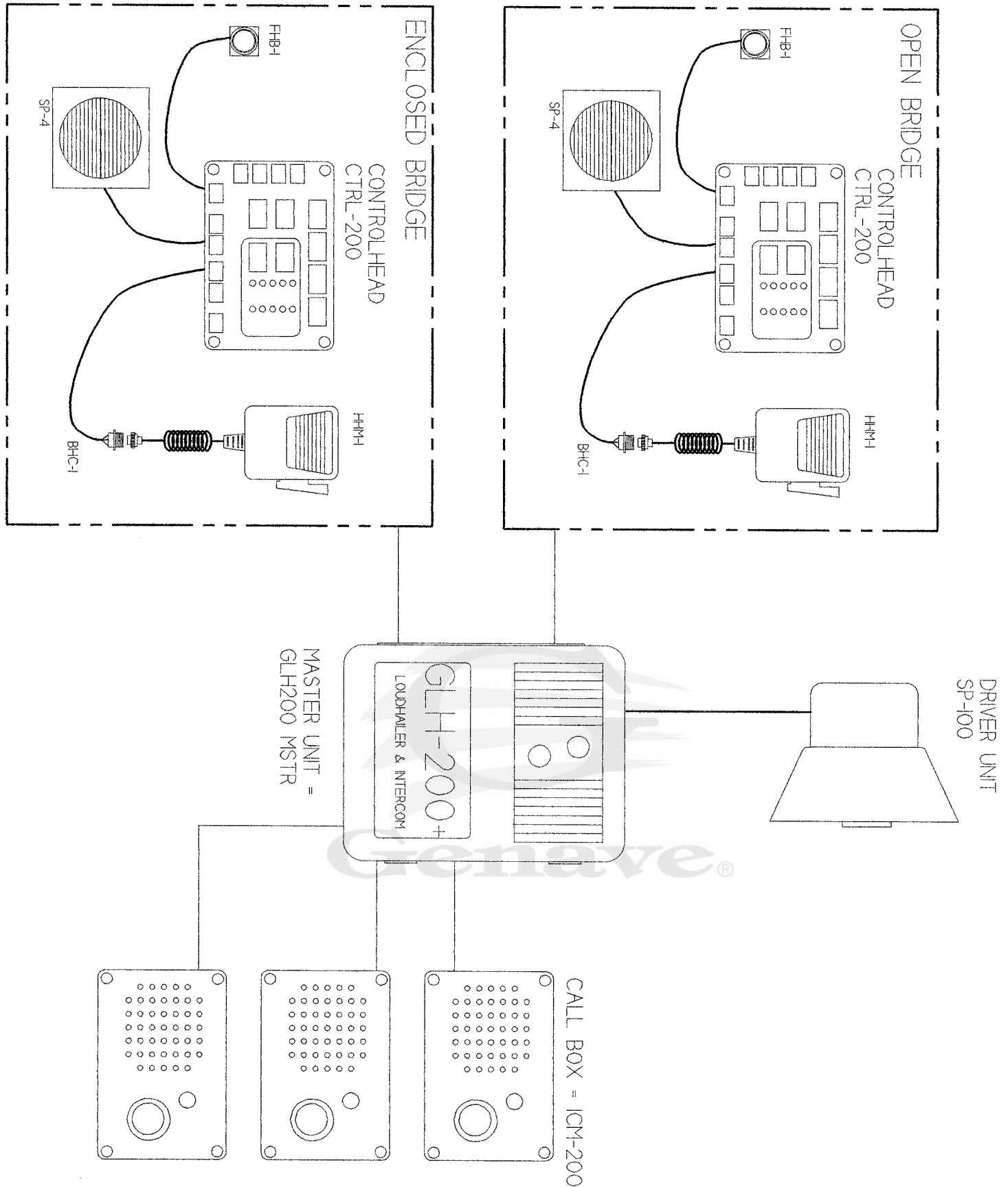
Power input : 24-28 Vdc, 15 amps max.

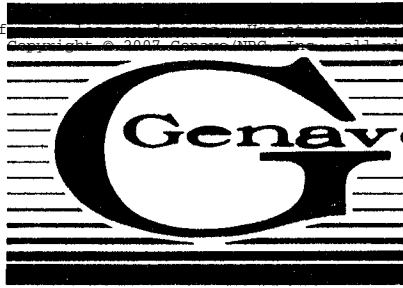
Power output: 100 Watts nominal into 8 ohm speaker.

External device current switching capabilities. 2 amps max.

Weights:

- Master Unit
- Control head
- Call box
- Driver
- Speaker

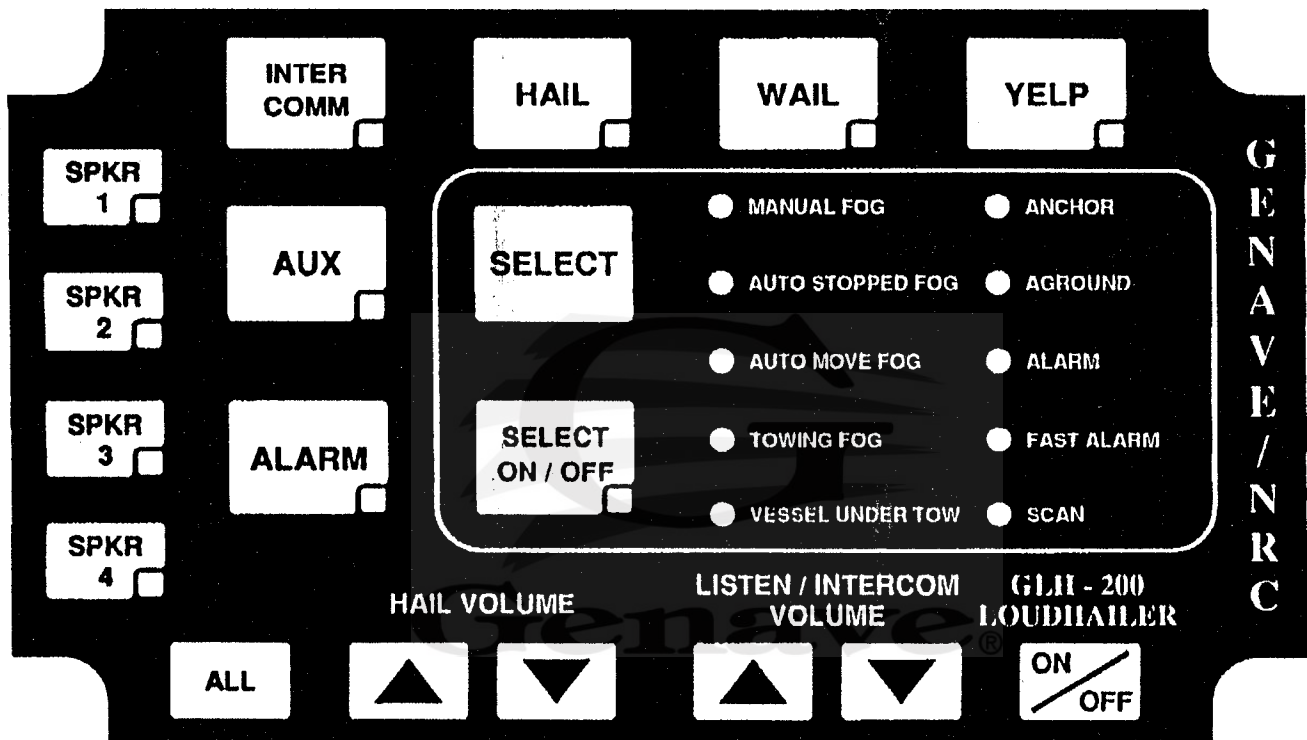




GLH-200

LOUDHAILER PLUS+

OPERATORS MANUAL



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GLH-200 Operating Instructions

The GLH-200 Loudhailer is a computer controlled, digital system that is light-years ahead of any like equipment you have ever seen.

The GLH-200 was designed from the ground up to provide rugged, reliable service in some of the worst salt and spray conditions imaginable. It is designed to operate from the heat and humidity of the tropics to the frigid cold of the Antarctic. It is water resistant and the electrical systems have been isolated and buffered to the extreme to prevent power surges or lightening strikes from damaging the equipment. The super-fast computers form a dedicated network that is capable of adapting to changing conditions as well as performing its own troubleshooting and reconfiguring of its data communications system if problems are sensed.

The layout of the keyboards is designed for fast and easy selection, even with gloved hands. While the entire system is very easy to install in both new and existing boats.

The system is modular in construction, so Control Heads, Intercoms, or Master Units can be added or changed out without problem.

The GLH-200 is controlled from one to four Control Heads mounted on the boat. Any control functions or switches pressed on a controlled head, are updated for the entire system to give everyone "real-time" information on the operation of the system.

The GLH-200 supports an inter-ship communications system, with Intercom Call Boxes that are simple to operate. This intercom system can work on its own, or it can be accessed by the control heads with the press of a button.

A large number of alarm and siren sounds are available to the operator, as well as many automatically timed electronic fog-horn sounds. In addition, the timing system can be interfaced with an existing fog-horn system to give computer controlled accuracy to most any existing horn system.

OPERATION OF THE CONTROL HEAD

We will go thru each one of the buttons and its function.

SPKR 1 SPKR 2 SPKR 3 SPKR 4

These switches control which one or more of the external speakers is being used to transmit sound, or is being used to receive audio when the unit is in the Hail mode. The number of speakers that your system has available is programmed in the Main Unit by the use of jumpers. When more than one speaker is on at any time, the GLH-200 will automatically jump to 200 watts of audio output power, from its normal 100 watts.

If you try to turn on a speaker that is non-existent, the unit will not switch.

If you attempt to turn off all speakers, speaker #1 will turn on automatically. There must be at least one speaker on-line at all times to prevent damage to the high power amplifier.

ALL

By pressing this switch once, all of the external speakers that your system has available, will be turned on. Pressing this switch again will turn off all of the speakers except #1, which will stay on.

INTERCOM

Pressing this switch will patch the control head system into the inter-ship intercom system and allow the control head to send and receive audio just as an Intercom Call Box. With the Intercom switch off, only the Control Heads communicate between each other, while the Intercom Call Boxes are on their own system.

AUX

The GLH-200 has the ability to send external audio from a radio, tape player, receiver or like source to any user selected destination. Aux audio can be listened to at the Control Heads, sent over the Intercom system, sent over any of the external speakers, or any combination of the above.

Aux audio will be turned off if any of the siren or alarm signals are used, or while the Intercom or Hail functions are being used by any of the control heads.

ALARM

This will sound a rapidly ringing bell from the external speakers. There is no time-out function on this sound, and it will continue until the key is pressed again to turn it off, or another sound is selected.

Like all of the sounds and alarms generated by the GLH-200, it will be temporarily stopped while the Hail function is in use by the control head. It will resume after the PTT switch on the microphone is released.

HAIL

The GLH-200 can be used as a high-power amplifier system to hail other boats, people on shore, or to call to victims in the water during rescue operations. With the unit in the Hail mode the operator presses the PTT (push-to-talk) switch on the hand microphone and speaks in a clear and slow voice. Upon release of the PTT switch (if no other sounds are being generated) the GLH-200 switches into a "listen" mode.

During the listen mode, the currently selected speaker becomes a microphone that picks up any sound and sends it to the control heads.

The loudness of the Hail sound is controlled by pressing the corresponding up or down button for the Hail Volume.

The loudness of the "listen" sound is controlled at the control head by pressing the corresponding up or down Listen/Intercom button. Each control head can have its own individual level.

If the GLH-200 is sounding its fog-horn or other signals, it will temporarily turn off the listen mode of the Hail so the sound does not blare thru the system. As soon as the sound is finished, the Hail listen is turned back on.

WAIL

This siren sound is a slow type wail. There is no time-out of this sound. Once started, it can be turned off by pressing the button again, or by selecting another sound.

YELP

This is a fast wail. There is no time-out of this sound. Once started, it can be turned off by pressing the button again, or by selecting another sound.

SELECT

Pressing the select key allows the operator to select from the various automatic fog-horn sounds, emergency signals and security system options.

When the Select key is pressed, one of the green lights will begin flashing to indicate which function would be selected if you pressed the Select On/Off key.

By repeatedly pressing the Select key, the green lights are stepped thru all of the available functions, and wrapped around to the function that you began with.

If you Select a function that is currently "On", the red light on the Select On/Off light will turn on to show that the current status is on, and that if you pressed the Select On/Off key at that point, the function would turn off.

If you do not press the Select key for a period of twenty seconds, the select feature will reset and go back to its regular state.

SELECT ON/OFF

Pressing this button with no green lights lit in the "select" area will sound the fog-horn until you press the switch again.

Pressing the switch while you are in the process of selecting one of the sounds with the Select button, will turn on or off the sound as necessary.

Pressing the switch when a sound or alarm green light is on, will turn off the selection.

AVAILABLE SOUNDS AND ALARMS

- 1) **MANUAL FOG** - Produces a fog-horn sound until turned off.
- 2) **AUTO STOPPED FOG** - When the vessel is dead in the water, this function sends two 5 second blasts of the fog horn. It is repeated every two minutes
- 3) **AUTO MOVE FOG** - Sends one 5 second blast, every two minutes.
- 4) **TOWING FOG** - When the vessel is towing, one 5 second blast followed by two 1 second blasts are sent. It is repeated every two minutes.
- 5) **VESSEL UNDER TOW** - When the vessel is under tow, this sends one 5 second blast, followed by three 1 second blasts, repeated every two minutes.

6) ANCHOR - When the vessel is at anchor, this sounds a rapidly ringing bell for 5 seconds. This is repeated once a minute.

7) AGROUND - When the vessel is aground, this sounds three strokes of a bell, followed by a rapidly ringing bell, followed again by three strokes of a bell. This is repeated every minute.

8) ALARM - This is a Security Alarm that uses the external speaker to sound a Yelp signal when the alarm circuit is activated.

This Security Alarm has the ability to remain "On", even if the control head and intercom systems are turned off. To do this, Select the Alarm function, turn it on by pressing "Select On/Off", and then turning off the Loudhailer by pressing the On/Off button. An intrusion in the "Outside Alarm" circuit will sound the Yelp signal.

To turn off an alarm. Turn on the Loudhailer, and press the Yelp key.

A keyswitch may be placed in the control head circuit, that will allow only authorized persons to deactivate the alarm once it is activated.

9) FAST ALARM - This is a "Local Alarm" that produces a Fast beeping at all of the control heads when the "Local Alarm" circuit is activated. This alarm is only active when the control heads are turned on.

To stop the beeping on a Fast Alarm, press the "Listen/Intercom Volume" button (either the Up or Down).

You must reset the Fast Alarm by turning it off and then back on, before you will receive further alarm signals. This prevents the necessity of having to quiet a persistent alarm, after you have acknowledged it the first time.

The Fast Alarm can be used, with the proper interface, to monitor equipment such as bilge pumps, access doors, weather alert signals, as well as radio and electrical systems to name just a few.

SCAN - This feature is not enabled on standard GLH-200 Loudhailers.



SPECIAL FEATURES

MICROPHONE CLICK SWITCHING

Two of the most used switch functions, Intercom and Hail, can be turned on and off by clicking the PTT switch on the Control Head microphone.

To turn the Intercom on and off, click the PTT switch two times within a 1 second period and the Intercom will change states.

To turn the Hail on and off, click the PTT switch three times within a 1 second period and the Hail will change states.

This feature can be disabled by a service technician if not required

INTERCOM ALERT

When the control heads are not switched into the Intercom system, it is possible for someone wanting to talk to the bridge to "ring" the Control Head station. By pressing the button on the Intercom three times in one second, the control heads will give a short ring that will alert the operator that someone wishes to talk to them via the Intercom system. The operator then presses the Intercom switch on the control head and establishes communications.

This feature can be disabled by a service technician if not required

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