

GEM INC. OF CAPRI

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Radio Remote Lift Controls

GEM INC OF CAPRI

# Owners Manual

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## Installation Manual

**Select mounting location.** The most common mounting location is the wooden pilings of the boatlift. However, any rigid foundation will suffice.

Note: Take into consideration GEM units remote operation is **LINE OF SIGHT**. Unit should be mounted in such a manner as to make it visible from the direction of vessel's approach.

**Wiring GEM unit.** A qualified electrician in accordance with the wiring diagrams provided with unit should complete all wiring. If any questions arise or problems are encountered during installation GEM Inc. should be contacted for clarification and to avoid voiding of the warranty.

All installation wiring shall be completed in accordance with all applicable National, State, and Local Electrical Codes.

- **Gem units come standard ready to wire at 115/230 VAC.**
- **A neutral wire is required for the 230 VAC connections, unless the unit was ordered specifically for 230 VAC only.**

# Operation Manual

## Single Motor Controllers

1. Turn on main power.
2. Turn on emergency stop/off switch as marked inside enclosure. The switch is located inside the enclosure on the bottom left side. If equipped with GFIC, press black test button for same effect.
3. Unit may now be operated by manual switch located inside the enclosure. Direct toggle switches to desired direction of travel, up or down, and hold until desired position is achieved.
4. For remote operation, point hand held remote transmitter at enclosure, depress and hold direction button until desired position is achieved.
5. Auto-stop models – The operation is the same as listed above except: With the Auto-Stop switch on, direct toggle (inside enclosure) or remote transmitter button only has to be pressed once and released. Lift will operate in direction selected until limit switch shuts unit down or operator presses the “stop” button on the transmitter.
6. Level – Single motor controls do not have level function.

## Two Motor Controllers

1. Turn on main power.
2. Turn on emergency stop/off switch as marked inside enclosure. The switch is located inside the enclosure on the bottom left side. If equipped with GFIC, press black test button for same effect.
3. Unit may now be operated by manual switch located inside the enclosure. Direct toggle switches to desired direction of travel, up or down, and hold until desired position is achieved.
4. For remote operation, point hand held remote transmitter at enclosure, depress and hold direction button until desired position is achieved.
5. Auto-stop models – The operation is the same as listed above except: With the Auto-Stop switch on, direct toggle (inside enclosure) or remote transmitter button only has to be pressed once and released. Lift will operate in direction selected until limit switch shuts unit down or operator presses the “stop” button on the transmitter.
6. Level – If unit is an Auto-Stop turn off the Auto-Stop function during the leveling process. Hold the level switch in the on position and operate the manual switch up or down as required to level vessel on lift.

## Four Motor Controllers

1. Turn on main power.
2. Turn on Key Switch. The Key Switch is located under the front bottom edge of the main control enclosure. If equipped with GFIC, you must also press black test button GFIC is located under the flip cover on side of make-up J-Box.
3. Unit may now be operated by manual switch located on the front of the enclosure. Direct toggle switches to desired direction of travel, up or down, and hold until desired position is achieved.
4. For remote operation, point hand held remote transmitter at enclosure, depress and hold direction button until desired position is achieved.
5. Auto-stop models – The operation is the same as listed above except: With the Auto-Stop switch on, direct toggle or remote transmitter button only has to be pressed once and released. Lift will operate in direction selected until limit switch shuts unit down or operator presses the “stop” button on the transmitter.
6. Level – If unit is an Auto-Stop turn off the Auto-Stop function during the leveling process. Turn off the desired motors, switches are located on side of dock enclosure and numbered 1-4, next operate the manual switch up or down as required to level vessel on lift.

## Service Manual

The end user of the Gem Remote should perform the following Bi-annual service.

A certified electrician should inspect:

1. Contact points for signs of excessive pitting or burning. If either condition is found, it could be an indication of, improper wiring size, too heavy a load, or excessive current draw.
2. Ensure all motor feed connections are tight
3. Inspect for any signs of moisture in the cabinet and correct problem
4. Test the unit in all modes of operation to ensure all features function properly



## Spare Parts Manual

### Field Replacement Spare Parts

• <u>Hand Transmitters</u>	<u>Part#</u>
2 Button Old Style	8832T
3 Button Old Style	8833T
2 Button New Style	5020
2 Button Floating New “Yellow”	5220
3 Button New Style	5030
• <u>Receivers</u>	
2 Channel Old Style	8832R
3 Channel Old Style	8833R
2 Channel New Style	5002
3 Channel New Style	5003

- Misc. Components Parts#

- Electrical Components

20 amp PWC Contactor	LC2K
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20 amp Reversing Contactor	N28
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30 amp Reversing Contactor	303
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40 amp Reversing Contactor	403
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Transformer	C3369
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Enclosures 8 x 10

Enclosures 6 x 8

Enclosures 12 x 14

- Switches

Up/Down Switch	6FC53
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On/Off Switch	2FA53
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Level Switch, GR1 & GR2	6GK5M
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Level Switch, GR4	2GK51
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Learn Switch	R18
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Switch Seal Boot	C11
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Triple Seal Switch Boot	3C11
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## Warranty Statement

For one year from the date of original purchase GEM will provide FREE of charge, less return shipping, parts to repair or replace any part of your GEM product that fails due to a manufacturing defect. This warranty does not extend to any of our products which have been subjected to misuse, neglect, incorrect wiring, improper installation, unauthorized modification, or use in violation of procedures furnished by GEM and in accordance with the National Electrical Code, nor units which have been repaired or altered outside of our facility without our knowledge and or consent. Warranty determinations shall be made after the merchandise in question has been returned and inspected by trained GEM personnel.

## Warranty Disclaimer

- Failure of any GEM product if used for other than its intended purpose.
- Damage to product caused by fires, floods, windstorms or acts of God.

## Cautions & Safety Notes

- Turn off Main Power to lift when not in use. Failure to do so could result in damage to your lift or boat.
- Do not operate your lift unattended.
- Allow lift to stop completely before reversing directions
- Observe all running motors to ensure same direction rotation
- Keep hand transmitters dry at all times. Failure to do so could result in damage to transmitter or lift running by it's self.
- Lift is not designed to carry personnel. **DO NOT RIDE LIFT**, this could result in ***serious bodily injury or death.***