

LOW BATTERY INDICATOR

The Low Battery Indicator will come on when the DDGC has 25% of battery life left. This will insure that, even if the low battery indicator is on, you can finish your dive plan. It is recommended that you change the battery as soon as possible after surfacing.

MAINTENANCE

The TAC-200D is very reliable system and needs very little service. It is recommended that the system be rinsed with fresh water after every dive, wiped down with a clean cloth, and stored in a cool, dry place. Periodically, you need to disassemble the system and clean all the components separately.

It is recommended that the unit's function and depth gauge, of the TAC-DDGC, be tested every 6 to 12 months. The TACDDGC-01 Waterswitch Shorten Tool can be used for this task.

MAINTENANCE TOOLS

To support the maintenance of the TAC-DDGC, RJE International offers these custom tools:

TACDDGC-01 Waterswitch Shorten Tool:

The TACDDGC-01 shorts the waterswitch to activate the unit out of the water. This allows for testing the unit's functions, checking the battery, and checking the accuracy of the depth gauge in a dry chamber.

TACDDGC-02 Battery Cap Removal Tool:

The TACDDGC-01 is used to remove the battery cap.

CUSTOMER SUPPORT

We always welcome our customers' feedback and product improvement ideas. If you have any questions or comments, contact us at:

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RJE International, Inc.
Irvine, California

TECHNICAL MANUAL TAC-200D DIVER NAVIGATION BOARD OPERATIONS MANUAL



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WARNING

Diving is a dangerous and potentially life threatening activity. The TAC-200 Diver Navigation Board must be used by a person who is certified by a recognized agency (PADI, NAUI, SSI, NASDS, YMCA, etc.). Improper use or misuse of the TAC-200 could result in serious injury or death. Do not use the TAC-200 or any of its components until you have fully read and understand instructions and safety precautions in this manual. Never rely on the the TAC-200 as your sole means of underwater navigation. Always have at least one other means of navigation back-up assistance.

BACK LIGHTING

To display can be backlit for operating the unit in poor visibility or for night dives. Pressing the switch "UP" for 1 second will turn teh baclight ON and OFF.



LEG TIME STOPWATCH

To start the leg timer, pressing the switch "DOWN" for at least one second. To pause and restart the leg time, press the switch "DOWN" again for 1 second. If the switch is held in the down position for at least 3 seconds, the leg timer will reset to zero.



CHANGING DEPTH SCALE

The TAC-DDGC can display depth in feet or meters. In the meter mode, a decimal point is displayed in the LCD window. To change the scale, press the switch in the up position for at least 15 seconds, to cycle the depth mode.

BATTERY INSTALLATION

It is recommended that the battery be replaced after every mission. The battery is a commercial off the shelf 1.5 Volt alkaline battery. It is advisable that the operator carry spare batteries when traveling to remote destinations where it may be difficult to obtain. Access to the battery compartment is provided through the Battery Cover located on the top of the TAC-DDGC. To replace the battery unscrew the Battery Cap located on the top right side of the unit with the TACDDGC-02 Battery Cap Removal Tool or a large blade slotted screwdriver. Then remove the old battery and install a fresh 1.5V AA alkaline battery with the "positive-side" facing towards the top. Be sure that all O-ring sealing surfaces are clean and undamaged before re-installing the Battery Cap. The DDGC is ready for use. If the DDGC is to be stored for long periods, the battery should be removed from the unit.



OPERATION

The DDGC is activated upon immersion in water. Once powered up, the unit will display all LCD segments and backlighting for 1 second, blank for another second, then display the depth and a leg time of 0:00:00. A 3-position switch located on the left side of the unit is used to control the unit's functions. The switch normally rests at the center position and can be moved up or down momentarily. Upon removal from the water, the unit will continue to display the maximum depth achieved on the dive for 10 minutes but will not respond to any switch operations. After 10 minutes the unit will power off.

PREFACE

PROPERTY

The information, descriptions, photos, and illustrations in this manual are the property of RJE International, Inc. Materials may not be reproduced or disseminated without prior written consent of RJE International, Inc.

WARRANTY

RJE International, Inc. warrants the TAC-200D and associated equipment to be free of defects in material and workmanship for a period of one year from date of delivery to the original purchaser. Obligation under this warranty is limited to repair or, at the sole discretion of RJE International, replacement of any product returned to our facility or authorized distributor. All products shall be shipped to RJE FREIGHT PREPAID and shall be returned to customer FREIGHT COLLECT. Equipment may not be returned without prior authorization which must be requested in writing. Upon authorization a Return Authorization Number (RMA) will be issued. The RMA Number must appear on the outside of the shipment, as well as, in all pertaining correspondence. Shipments received without an RMA number will be refused by RJE International. This warranty does not apply in cases where the product malfunctions as a result of mishandling or improper use.

LIABILITY

RJE International, Inc. assumes no liability for damages, losses, or cost incurred consequential through operation or malfunction of any RJE International, Inc. product.

CHANGES

RJE International, Inc. reserves the right to make any changes in design or specifications at any time without any obligation to modify the previous units. This manual is provided for information and reference purpose only and is subject to change without notice.

INTRODUCTION

The TAC-200 Diver Navigation Board was developed and is used by divers for accurate subsea navigation. Highly reliable and rugged, the TAC-200D consist of three major components: an underwater digital depth gauge with chronometer (p/n TAC-DDGC), a large underwater compass (p/n TAC200-2), a rugged high impact plastic board (p/n TAC200-1). and a transport bag (p/n TAC200-4). The TAC-200D allows the diver to monitor depth, direction, and leg time. By using this information, a diver can plot and follow a planned course during a dive with a high level of reliability.

TAC200-1 NAVIGATION BOARD

The TAC200-1 Combat Swim Board is rugged high impact plastic board that is the core platform. The TAC200-2 Underwater Compass and TAC-DDGC are both mounted onto the TAC200-1 to complete the system. The hardware used to mount the TAC200-2 Underwater Compass is made out of non-corrosive material and should provide you with many years of service.

TAC200-2 UNDERWATER COMPASS

The TAC200-2 Underwater Compass is designed and manufactured for the rigors of underwater use. The rugged housing is depth compensated and should give you many years of dependable use with proper care. A black compass card with luminous heading markers allows you to maintain a course heading, even in the worst visibility for up to 8 hours. The adjustable bezel, on the outside of the compass, will also assist in maintaining your course heading.

TAC-200D SPECIFICATIONS

TAC200-1 Navigation Board

Board Material: Black ABS
 Dimensions: 10.75" X 6" X 1.5"
 (27cm X 15cm X 4cm)

TAC200-2 Underwater Compass

Compass Card Bearings: 5 Degrees Markings
 Illumination: All Bearing Markings, 8 hours
 Compass Card Tilt: 20 Degs
 Dimensions: 4" Dia X 3.75" H
 (10cm Dia X 9.5cm H)



TAC- DDGC Digital Depth and Chronometer

Features:

- Leg Time Stopwatch: Displayed in Hours/Min./Sec. User can pause, resume, and reset Leg Time
- Current Depth: Displayed in Feet or Meters (user selectable)
- Depth Memory Function: Saves and Displays Max Depth once Unit is Removed from the Water for 10 mins
- Low Battery Indicator: Displays "BAT" @ 75% of battery usage.
- LCD Display: Backlit, user selectable
- Specifications:
 - Operational Depth: 125ft
 - Operational Life
 - No Backlight: 22 hours
 - Backlight On: 10 hours
 - Power Source: One 1.5 Volt alkaline battery NEDA type 1.5A
 - Activation: Water Switch
 - Depth Resolution: 1 ft (0.30 meters)
 - Altitude Compensation: Automatic compensation to 10,000 ft. (3030 meters)
 - Leg Timer Capacity: 20 hours
 - Leg Timer Resolution: 0.05%
 - Operational Temp: 29°F to 95°F (-2°C to 42°C)
 - Housing: Molded Plastic
 - Weight (in air): 9.5 oz. (294g)
 - Dimensions: 2.75" X 3.85" X 1.29"
 (6.9cm X 9.84cm X 3.27cm)

