Diagnostix™

Desk Charging Base

Instruction Manual

Questions?
Call ADC toll free:
1-800-232-2670

AMERICAN DIAGNOSTIC CORPORATION

1. A SPECIAL THANK YOU

Congratulations on your purchase of an ADC® Diagnostix™ Desk Charging Base.

ADC® professional diagnostic products are the instruments of choice where accuracy and dependability are critical.

This feature rich instrument was designed to simplify physical exams and non-invasive diagnostics with proper use and care it will provide many years of dependable service.

Read this booklet thoroughly before attempting to use your new ADC® Diagnostix™ Desk Charging Base.

2. INTRODUCTION - INTENDED USE

This manual is for the ADC® Diagnostix™ Desk Charging Base. The charger base is manufactured for use with ADC or compatible 2.5v or 3.5v power handles and instrument heads. The base is designed to recharge compatible power handles.

If you have any questions, call our toll-free number or visit our website. For contact information, see the last page of this instruction booklet.

Please note that the ADC® Diagnostix™ Desk Charging Base is only suitable for charging ADC® instruments operated with ADC® rechargeable batteries.

Do not use with any other equipment. To learn more, visit our website at: www.adctoday.com.

3. WARNINGS AND PRECAUTIONS ⚠

You have purchased a high quality ADC® Diagnostix™ Desk Charging Base which has been manufactured to the highest quality standards and is subject to rigorous quality control. Read these instructions for use carefully before putting the unit into operation and keep them in a safe place.

If you should have any questions, call our toll free number or visit our website. Our address can be found on the last page of this booklet.

Please note that all instruments described in these instructions for use are only to be used by suitably trained personnel. The safe functioning of this instrument is only guaranteed when original parts and accessories from ADC® are used.

Attention:
There may be a risk of gases igniting when the instrument is used in the presence of flammable or combustable gases. Working in areas with good ventilation is recommended.

Never attempt to take the instrument apart!

There is a danger of **life-threatening** electrical shock. Unplug the instrument before cleaning or when disinfecting.

Warning: The device contains sensitive electronic components. Avoid strong electrical or electromagnetic fields in the direct vicinity of the device (e.g., mobile telephones, microwave ovens). These can lead to temporary impairment of the ADC® Diagnostix™ Desk Charging Base.

Warning: Do not use batteries, electrical cords other than those included with this product or replacement parts supplied by the manufacturer.

Warning: This product may contain a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.

Caution: The standard material used is latex-free.

4. START-UP AND OPERATION:

The ADC® Diagnostix™ Desk Charging Base is available as a 230v or 120v model and suitable for charging of 2.5v or 3.5v handles.

a) Preparation prior to charging

- Ensure that the charging base is positioned on a level surface. Do not position unit in the direct vicinity of a radiator and protect against direct sunlight.
- Fluids must not penetrate into the interior of the enclosure. Do not use fluids in close proximity of the charging base.
- Connect unit to an electrical outlet. Ensure that the voltage stated on the rating plate on the bottom of the unit agrees with the mains voltage. After connection of the charging base, a self-test is performed. During the test, the LEDs on the front of the unit will be repeatedly switched on.
- When charging 19mm handles (AA size), insert plastic reducers inhandle recesses. When charging 28 mm handles (C size), remove reducers from handle recesses by lifting in an upward direction before inserting handle.
- The ADC® Diagnostix™ Desk Charging Base may be used for charging 2.5v and 3.5v rechargeable batteries respectively. The charging chambers are interchangeable and may be used with 2.5v or 3.5v battery handles. A 2.5v and 3.5v unit may be charged simultaneously.

b) Charging

- The rechargeable battery is tested when inserted into the charging chamber. At voltages of less than 1.5v, the rechargeable battery is either fully discharged or faulty. The charging base will try to recharge the battery by applying a pulsating charging current. The yellow charging LED will flash.
- For rechargeable battery voltages of more than 1.5v, charging will commence. The yellow charging LED will turn on.

c) Charging Time

- The end of the charging time is detected by evaluation of the negative voltage differential caused by heating of the rechargeable battery cells when fully charged. The yellow charging LED will switch off and the green ”rechargeable battery full” LED will switch on.
- The charging time is limited to max. 4.75 h by the internal timer.
- When the rechargeable battery is fully charged (green LED on), the unit will switch to maintenance charge.
- The temperature inside the charger base is monitored. Do not keep in sunlight, or close proximity of a radiator, as over heating may cause premature actuation of the automatic switch-off mechanism shutting the charger off before completing a full charge.

Warning!

- When the handle is removed from the charging chamber for a few seconds whilst the rechargeable battery is fully charged (green LED on) without switching on, initially the yellow charging LED will be switched on when reinserting the unused rechargeable battery. However, this is not due to malfunction of the charging base but the described ”rechargeable battery full” sensor.
- When the rechargeable battery is full, no negative voltage differential can be recorded. The rechargeable battery must first heat up in order to signal ”rechargeable battery fully charged”.
- The time prior to the green ”rechargeable battery fully charged” LED switching on again may vary considerably (15 minutes or longer). Additional temperature sensing and a timer, however, ensure that the charging process is carefully monitored at any time.

We recommend to keep the instrument in the charging chambers after use to ensure that instruments are always ready.

5. SPECULA COMPARTMENT

The specula compartment may be used for spare specula and lamps.

6. WALL MOUNTING

The ADC® Diagnostix™ Desk Charging Base may be mounted on the wall. Hold wall rail to the place on the wall intended for mounting. Mark holes with a pen and drill holes of 5 mm (3/16”). Insert the dowels supplied. Position rail holes on the dowels and fix to the wall with the screws supplied. Then slide unit on bracket to allow the wall rail to be introduced into the two guideslots of the ADC® Diagnostix™ Desk Charging Base plate. Ensure that the bottom cover tab engages in the recess in the wall rails.

Remove unit by pressing in the bottom tab, allowing the unit to be simply taken from the rail.

7. LED INDICATORS

LEDs switching on repeatedly, brief permanent switch-on, followed by off	Mains connection, self-test
Yellow LED on	Charging in progress
Green LED on	Rechargeable battery fully charged, unit changing to maintenance charge
Yellow LED flashing	Rechargeable battery fully discharged or faulty. Unit trying to regenerate rechargeable battery by a pulsating charging current. Should no charging cycle be indicated after approx. 16 h, the rechargeable battery is faulty or must be replaced

8. CLEANING AND DISINFECTING

Prior to cleaning or disinfection of the unit disconnect mains cable from socket.

Cleaning and/or Disinfection

The ADC® Diagnostix™ Desk Charging Base may be cleaned externally with a damp cloth.

In addition, the following disinfectants may be used for external disinfection: Aldehyde (formaldehyde, glutaraldehyde, aldehyde derivatives), surfactants or alcohols.

Use a soft lint free cloth or cotton swabs to prevent damage to charging base.

Warning!
Ensure that fluid never penetrates into the unit!

Sterilization
According to the Test Centre for Medical Devices in Tübingen, Germany, sterilization is only prescribed in the case of operative procedures. There is no necessity for sterilisation of this charging base.

9. TECHNICAL SPECIFICATIONS

Model:	ADC® Rechargeable Battery Charger Base
Display System:	LEDs Connection
Main Connection	(See Note on Bottom Label)
Output:	2.4 V (d.c.)
Charging Current:	200 mA
Operating Temperature:	32°F - 104°F (0°C - 40°C)
Storage Temperature:	23°F - 122°F (-5°C - 50°C) up to 85% relative humidity, non-condensing
Dimensions:	7.3” x 3.4” x 2.9” (186 mm x 87 mm x 74 mm)
Weight:	Approx. 1.1 lbs (500 g) without packing

10. MAINTENANCE

These instruments and their accessories do not require any specific maintenance. Should an instrument have to be examined for any specific reason whatsoever, please return it to ADC®.

11. ELECTROMAGNETIC COMPATIBILITY

Symbol	Definition
⚠	Meaning of symbol on casing. See operating instructions!
⧈	Meaning of symbol on rating plate on bottom of unit: Protection class II unit
🚹	Meaning of symbol on rating plate on bottom of unit: Application part type B

The unit complies with requirements for electromagnetic compatibility. Please note that instruments of interfering field strengths such as mobile telephones or radiological instruments, may affect its function.

12. WARRANTY

This ADC® Diagnostix™ Desk Charging Base is warranted for 2 years from date of purchase. This warranty includes the instrument. The warranty does not apply to damage caused by improper handling, accidents, improper use, or alterations made to the instrument by third parties. The warranty is only valid after the product is registered online at www.adctoday.com.

13. QUALITY STANDARDS

Electromagnetic compatibility:
Device fulfills the stipulations of the International standard IEC60601-1-2

14. HOW TO CONTACT US

To Register Your Product, visit us at

www.adctoday.com

and follow the links

FOR QUESTIONS, COMMENTS, OR SUGGESTIONS
CALL TOLL FREE:
1-800-ADC-2670

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Consult instructions for use

Type BF applied part

IB p/n 93-5500-00 english

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