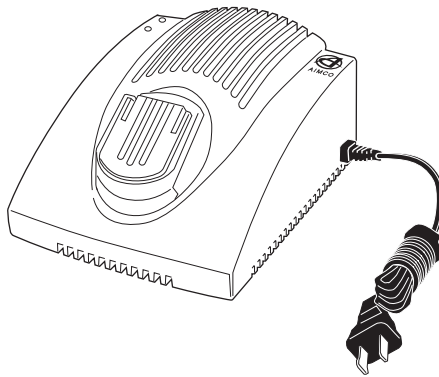




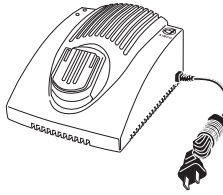
AIMCO

Signature Series

CHARGERS



OPERATIONS MANUAL



Thank you for your purchase of a Signature Series Battery Charger from AIMCO. AIMCO adheres to the principles of PERQ[®], contributing to your company's Productivity, Reliability, Ergonomic and Quality demands. AIMCO offers the most comprehensive line of assembly tools available from a single source worldwide.

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GENERAL SAFETY GUIDE

Do not use this charger before you have completely read and understood this instruction manual, the instruction manual for the associated Signature Series tool, and any Signature Series Accessories intended for use.

Please observe all relevant local safety practices including the use of eye and ear protection.

This manual should be kept in an accessible location for later use and passed along to any new users.

Do not use this charger outdoors.

Do not attempt to recharge batteries with known problems or ones that cannot be charged.

This charger is intended for use in industrial indoor environments charging AIMCO Signature Series batteries with voltages of 9.6V and or 12V. This charger will recharge Signature Series NiCd and NiMh type batteries of any capacity.

Before using the charger, check the AC cable and plug to insure that both are not damaged in any way.

The charger must be in a dry area.

Inspect the outer case of the charger prior to use to insure that it is not damaged in any way.

It is normal for the charger to generate heat as it operates. Do not place the charger on or near combustible or flammable surfaces.

Do not disassemble the charger. Service should only be attempted by an authorized AIMCO Signature Series Repair Center.

When cleaning the outside surface of the charger or blowing dust from the vents, be sure to disconnect the unit from the AC power prior to cleaning.

Only use properly rated and grounded extension cords with this charger.

Insure that proper ventilation is available in the environment where the charger is expected to function. Avoid environments where the ambient temperature exceeds (+40° C 104° F). Do not use this charger within closed cabinets or close to heat sources.

Remove batteries from the charger and unplug it from AC power sources if it will remain unused for long periods of time. Be sure and cover the contacts of the charger with a non conductive material to avoid accidental shorts of the terminals.

Do not rivet or engrave any name plates or signs onto the charger housing or battery packs as this will damage the housing insulation.

Be certain that the AC voltage supplied to the charger matches the AC voltage required by the charger. Incorrect voltages will damage the unit.

LED DISPLAY

RED (SOLID)

Without the battery slid onto the unit, the charger is in the "Ready for use" condition. Unit is plugged in and ON.

RED (SOLID)

With the battery ON THE CHARGER, this indicates that the battery is faulty or has

not made the proper connection with the contacts on the charger.

RED (FLASHING)

The upper or lower temperature limits of the battery have been exceeded

OR

The battery is discharged

OR

The temperature sensor is faulty. Fast charging is not possible and the unit will only operate in a slow, conservation mode.

RED (SOLID) & GREEN (FLASHING)

Fast charging is active

GREEN (SOLID)

Fast charging is complete and the battery is fully charged. Conservation charging is now active.

OPERATION INSTRUCTIONS

Be sure that the required adapter plate is in place on the charger contacts. This adapter insures that the charger will accept AIMCO Signature Series batteries.

Plug the unit into the AC power outlet. **BE SURE THAT THE SUPPLIED VOLTAGE MATCHES THE REQUIREMENTS FOR THE SPECIFIC CHARGER. 110V CHARGERS SHOULD BE USED WITH 110VAC POWER AND 220V CHARGERS SHOULD BE USED WITH 220-230VAC POWER.**

The RED LED display will light indicating that the unit is being supplied with power and is ready for use.

Slide the battery onto the adapter plate on top of the main contacts of the charger. The battery and charger are designed with a "one-way" design so that they only slide on in the correct manner.

When the battery has been slid onto the adapter plate, the GREEN LED light will flash and the RED LED light will remain solidly on. This is an indication that the battery is charging.

Once the battery is completely charged, the GREEN LED light will remain on solidly and the RED LED light will go out.

In the case of an extremely discharged battery, the charging process may be delayed for as much as 5 minutes after sliding on the battery. The RED LED light will flash during this period. Should the RED LED light remain flashing longer than 5 minutes, please read the Temperature Sensing section.

TEMPERATURE SENSING

Charging is also controlled by a temperature sensor in the battery pack and charger. The specific charging procedure is adjusted to the respective battery cell type (NiCd/NiMH) by the charger.

The temperature sensor in the battery insures that fast charging does not take place when the ambient battery temperature is below 41 degrees F or +5 degrees C or above 104 degrees F or +40 degrees C. If the battery is too warm or has been stored in too cold a location, the RED LED will flash and fast charging will be delayed until the battery temperature is within the charging temperature range.

If the charging does not begin and the battery temperature is within the correct temperature range, it should be assumed that the battery is faulty and must be replaced.

CHARGING TIMES/BATTERY LIFE

ALL NEW BATTERIES MUST BE CHARGED COMPLETELY PRIOR TO THEIR FIRST USE
Charging times for conditioned batteries (those that have been fully charged and discharged for 3-5 cycles) is approximately 15-40 minutes. Charging times for new batteries is approximately 40-60 minutes depending on the capacity of the battery.

Batteries have an expected lifespan of 1000 charge/discharge cycles. Actual lifespan may be extended or reduced by following proper charging/storage techniques.

Batteries that experience reductions in performance from known levels have reached the end of their service life and should be disposed of or recycled in accordance with local regulations.

Signature Series chargers and battery packs are non user serviceable. Any repairs should be directed to an authorized AIMCO Signature Series repair center for estimate and repair.

BATTERY DISPOSAL

DO NOT OPEN THE BATTERY. All Signature Series batteries should be disposed of

properly in accordance with local regulations.

ACCESSORIES

Use only authorized AIMCO Signature Series Accessories.

WARRANTY

NEW TOOL AND ACCESSORY WARRANTY

Any new tool or accessory branded with the AIMCO, Uryu, AcraDyne or Eagle Industries name, and purchased from AIMCO, or through one of its authorized distributors or agents, is warranted to the original buyer against defects in materials and workmanship for a period of one (1) year* from date of delivery. Under the terms of this warranty, AIMCO agrees without charge to repair or replace, at its option and F.O.B. its authorized service centers, any product or accessory warranted hereunder proving to AIMCO's satisfaction to be defective as a result of defective workmanship or material. In order to qualify for this warranty, written notice to AIMCO must be given immediately upon discovery of such defect, at which time AIMCO will issue an authorization to return the tool. The defective item must be promptly returned to an authorized AIMCO service center with all freight charges prepaid.

REPAIRED TOOL WARRANTY

Once a tool is beyond the new product warranty period as detailed above, AIMCO will provide repair subject to the following warranty periods: pneumatic tools: 90 days*; electric tools and Acra-Feed: 90 days; battery tools: 30 days*; DC Electric tools: 90 days*

EXCLUSION FROM WARRANTY

This warranty is valid only on products purchased from AIMCO, or thru its authorized distributors or agents. AIMCO shall have no obligation pursuant to the AIMCO Warranty with respect to any tools or accessories which in AIMCO's sole judgment have been altered, damaged, misused, abused, badly worn, lost or improperly maintained. This Warranty is null and void if the customer, or any other person other than an authorized representative of AIMCO, has made any attempt to service or modify the tool or accessory prior to its return to AIMCO under this Warranty.

The warranty provision with respect to each such product may be amended by AIMCO from time to time in its sole discretion. The liability of AIMCO hereunder shall be limited to replacing or repairing, at its option, any defective products which are returned F.O.B. to AIMCO or, at AIMCO's option, refunding the purchase price of such products.

AIMCO reserves the right to make periodic changes in construction or tool design at any time. AIMCO specifically reserves the right to make these changes without incurring any obligation or incorporating such changes or updates in tools or parts previously distributed.

THE AIMCO WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED,

AND AIMCO EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SETS FORTH THE SOLE AND EXCLUSIVE REMEDY IN CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE.

THIS WARRANTY IS THE ONLY WARRANTY MADE BY AIMCO WITH RESPECT TO THE GOODS DELIVERED HEREUNDER, AND MAY BE MODIFIED OR AMENDED ONLY BY A WRITTEN INSTRUMENT SIGNED BY A DULY AUTHORIZED OFFICER OF AIMCO.

LIMITATION OF LIABILITY

AIMCO'S LIABILITY PURSUANT TO WARRANTY OF THE PRODUCTS COVERED HEREUNDER IS LIMITED TO REFUND OF THE PURCHASE PRICE. IN NO EVENT SHALL AIMCO BE LIABLE FOR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS BY THE BUYER. IN NO EVENT SHALL AIMCO BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL OR OTHER DAMAGES (INCLUDING WITHOUT LIMITATION, LOSS OF PROFIT) WHETHER OR NOT AIMCO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS, HOWEVER CAUSED, WHETHER FOR BREACH OR REPUDIATION OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE OR OTHERWISE. THIS EXCLUSION ALSO INCLUDES ANY LIABILITY WHICH MAY ARISE OUT OF THIRD PARTY CLAIMS AGAINST BUYER. THE ESSENTIAL PURPOSE OF THIS PROVISION IS TO LIMIT THE POTENTIAL LIABILITY OF AIMCO ARISING OUT OF THIS AGREEMENT AND/OR SALE.

Note: The AIMCO Warranty confers specific legal rights, however some states or jurisdictions may not allow certain exclusions or limitations within this warranty.

* Note: All warranty periods addressed herein are determined using a standard shift, eight-hour work day.

DECLARATION OF CONFORMITY

AIMCO, with its manufacturing partner, declares that the product conforms to the relevant provisions of the standard as outlined by the following:



73/23/EEC
89/336/EEC
IEC 60 335-1
IEC 60 335-2-29
IEC/CISPR 14-1
IEC/CISPR 14-2
IEC 61000-3-2
IEC 61000-3-3



AIMCO



POWER TOOLS



DC CONTROLLED FASTENING TOOLS



TORQUE MEASUREMENT SYSTEMS



ASSEMBLY SYSTEMS



TOOL SUPPORT SYSTEMS



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