

3M BC-210 and BP-15

Smart Battery Charger BC-210 and Battery Pack BP-15

User Instructions

IMPORTANT: Keep these User Instructions for reference

Chargeur intelligent BC-210 et bloc-piles BP-15

Directives d'utilisation

IMPORTANT : Conserver ces directives à titre de référence.

Cargador inteligente de Batería BC-210 y Bateria BP-15

Instrucciones

IMPORTANTE: Conserve estas Instrucciones para referencia futura.

Carregador de Bateria Inteligente BC-210 e Bateria BP-15

Instruções de uso

IMPORTANTE: Guarde estas Instruções de Uso para referência.

3M Smart Battery Charger BC-210 is intended to charge the 3M™ Battery Pack BP-15 for use with the 3M™ Breathe Easy™ Belt-Mounted Turbo or 3M™ GVP PAPR Unit.

Intended Use

The 3M™ Smart Battery Charger BC-210 is intended to charge the 3M™ Battery Pack BP-15 for use with the 3M™ Breathe Easy™ Belt-Mounted Turbo or 3M™ GVP PAPR Unit.

List of Warnings and Cautions within these *User Instructions*

▲ WARNING

This product is part of a respiratory protection system that helps protect against certain airborne contaminants. **Misuse may result in sickness or death.** For proper use, see supervisor, or *User Instructions*, or call 3M U.S.A., 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414. Not for use in environments requiring intrinsic safety.

If the red light on the 3M™ Battery Pack BP-15 comes on, immediately leave the work area and recharge the battery.

Charge battery only in clean, well-ventilated, non-hazardous locations.

Charge 3M™ Battery Pack BP-15 only with 3M™ Smart Battery Charger BC-210. Battery should be connected to the BC-210 charger when not in use.

For infrequently used batteries, or batteries for long-term storage (longer than 3 months), the recommended method of storage is to leave the battery connected to the charger.

If stored off the charger, fully charge battery prior to storing and recharge once every three months if not used sooner.

Battery should not be left in a discharged state. Recharge battery immediately after use.

Do not allow water to enter battery case.

Sealed unit- do not disassemble.

No field serviceable parts inside case.

Charge battery only in clean, well-ventilated, non-hazardous locations. For indoor use only. Replace defective cords immediately.

There are no field-serviceable parts inside the smart battery charger. Do not attempt to open the charger case or expose the charger to moisture. **Doing so may result in serious bodily injury or death due to electrical shock.**

Failure to follow these *User Instructions* may cause electric shock, fire or explosion and result in injury or death. Do not couple more than 10 charger units at one time. Do not clean with solvents. Cleaning with solvents may degrade some components and reduce effectiveness. Inspect all components before each use to ensure proper operating conditions. **Failure to do so may result in sickness or death.** Failure to conduct an inspection and complete all necessary repairs before use may adversely affect performance and result in sickness or death.

Failure to comply with the above instructions may cause electric shock, fire or explosion or could adversely affect respirator performance and result in personal injury, sickness or death.


Important


Before use, the wearer must read and understand these *User Instructions*, the *User Instructions* for the intended Powered Air Purifying Respirator (PAPR) and the *User Instructions* for the intended headgear. Keep these *User Instructions* for reference.


Definitions of Product Icons

 - Attention, consult ACCOMPANYING DOCUMENTS


 - Dangerous voltage

 - *Attention, consult ACCOMPANYING DOCUMENTS*

 - *On" symbol – Turn system ON

 - *Standby" symbol – Place system in Standby

 - Charge Status of Battery

 - Do not throw in trash. Dispose of product as directed by local, regional and national waste regulations.

Specifications

Weight	BC-210 Smart Battery Charger (BC-100 and BC-210A CAM Module): Approximately 1.7 lb (771 g) Battery pack (NiMH): Approximately 1.8 lb (830 g)
Battery Charging Temperature	50°F to 90°F (10°C to 32°C)
Storage Temperatures	Battery Pack The recommended dry storage conditions (less than 85% relative humidity) for the battery is -4°F to 115°F (-20°C to 45°C). Storage of the battery outside this range will shorten the usable life of the battery. Avoid prolonged storage at temperatures above 120°F (49°C).

Directives de Sécurité Importantes

Lorsqu'on utilise des produits électriques, toujours respecter certaines précautions de base, notamment celles ci-dessous.

- LIRE ET SUIVRE TOUTES LES DIRECTIVES DE SÉCURITÉ.
- Lire et suivre toutes les consignes indiquées sur le produit ou fournies avec ce dernier.
- Pour un appareil électrique à branchement direct ou par cordon d'alimentation, ne pas utiliser de rallonge électrique.
- Pour un appareil électrique à branchement direct ou par cordon d'alimentation, ne pas utiliser ou installer à moins de 10 pieds d'une piscine.
- Pour un appareil électrique à branchement direct ou par cordon d'alimentation, ne pas utiliser dans une salle de bain.

CONSERVER CES DIRECTIVES – Le présent manuel contient des directives de sécurité et d'utilisation importantes relatives aux appareils électriques.

▲ ADVERTENCIA

Este producto es parte de un sistema de protección respiratoria que ayuda a proteger contra ciertos contaminantes transportados en suspensión en el air. **El mal uso puede ocasionar enfermedad o incluso la muerte.** Para su uso adecuado consulte a su supervisor, lea las *Instrucciones* o llame a 3M en EUA al 1-800-243-4630. En Canadá llame al Servicio Técnico al 1-800-267-4414. En México llame al 01-800-712-0646. O contacte a 3M en su país.

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Este produto é parte de um sistema de proteção respiratória que ajuda a proteger contra certos contaminantes transportados pelo ar. **O uso inadequado pode resultar em enfermidade ou morte.** Para o uso adequado, consulte o supervisor, ou as *Instruções de Uso*, ou ligue para a 3M nos EUA, 1-800-243-4630. No Canadá, ligue para o Serviço Técnico no telefone 1-800-267-4414. No Brasil ligue para o disque segurança 0800 0550705.

INSTRUCCIONES IMPORTANTES SOBRE SEGURIDAD

- LEA Y SIGA TODAS LAS INSTRUCCIONES SOBRE SEGURIDAD.
- Lea y siga todas las instrucciones del producto o incluidas con éste.
- No use una extensión eléctrica para una unidad con corriente eléctrica o conexión directa.
- No instale o use a una distancia dentro de 10 pies lejos de una alberca si utiliza una unidad con corriente eléctrica o conexión directa.
- No use el ar baño si utiliza una unidad con corriente eléctrica o conexión directa.

GUARDE ESTAS INSTRUCCIONES – Este manual contiene información importante sobre seguridad y operación de las unidades de energía/corriente.

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INSTRUÇÕES DE SEGURANÇA IMPORTANTES

- Ao usar produtos elétricos, devem-se sempre por em prática precauções básicas, que incluem o seguinte:
- LER E SEGUIR TODAS AS INSTRUÇÕES DE SEGURANÇA.
 - Le e seguir todas as instruções que estão no produto ou que são fornecidas com o produto.
 - Para uma unidade de força conectada por fio ou plugada diretamente, não use um fio de extensão.
 - Para uma unidade de força conectada por fio ou plugada diretamente, não instale ou use em um rio de 3 metros de uma piscina.
 - Para uma unidade conectada por fio ou plugada diretamente, não use em um banheiro.
- GUARDE ESTAS INSTRUÇÕES** – Este manual contém instruções de segurança e de funcionamento importantes para as unidades de força.


Important

Avant de se servir du produit, l'utilisateur doit lire et comprendre les présentes *directives d'utilisation* ainsi que les *directives d'utilisation* du respirateur d'épuration d'air propulsé et de la pièce faciale à utiliser. Conserver ces *directives* à titre de référence.


Signification des symboles


 - Attention, consulter la DOCUMENTATION CONNEXE


 - Tension dangereuse

 - * Attention, consulter la DOCUMENTATION CONNEXE *

 - Symbole • ON • – Met le système sous tension

 - Symbole • Standby • – Met le système en attente

 - État de charge de la pile

 - Ne pas jeter à la poubelle. Mettre sur l' produit au rebut conformément aux règlements locaux, régionaux et nationaux sur l'élimination des déchets.

▲ WARNING

Not for use in environments requiring intrinsic safety.

If the red light on the 3M™ Battery Pack BP-15 comes on, immediately leave the work area and recharge the battery.

Charge battery only in clean, well-ventilated, non-hazardous locations.

Charge 3M™ Battery Pack BP-15 only with 3M™ Smart Battery Charger BC-210. Battery should be connected to the BC-210 charger when not in use.

For infrequently used batteries, or batteries for long-term storage (longer than 3 months), the recommended method of storage is to leave the battery connected to the charger.

If stored off the charger, fully charge battery prior to storing and recharge once every 3 months if not used sooner.

Battery should not be left in a discharged state. Recharge battery immediately after use.

Do not allow water to enter battery case.

Sealed unit- do not disassemble.

No field serviceable parts inside case.

Charge battery only in clean, well-ventilated, non-hazardous locations. For indoor use only. Replace defective cords immediately.

There are no field-serviceable parts inside the smart battery charger. Do not attempt to open the charger case or expose the charger to moisture. **Doing so may result in serious bodily injury or death due to electrical shock.**

Failure to follow these *User Instructions* may cause electric shock, fire or explosion and result in injury or death. Do not couple more than 10 charger units at one time. Do not clean with solvents. Cleaning with solvents may degrade some components and reduce effectiveness. Inspect all components before each use to ensure proper operating conditions. **Failure to do so may result in sickness or death.** Failure to conduct an inspection and complete all necessary repairs before use may adversely affect respirator performance and result in personal injury, sickness or death.

Use of the Battery Pack: The 3M™ Battery Pack BP-15 should be placed on the 3M™ Smart Battery Charger BC-210, and fully charged immediately upon receipt. It may be taken up to 3 charge/discharge cycles for new batteries to reach full capacity. The battery can be discharged by connecting to the motor-blower and running until air flow starts to diminish. Do not short circuit the battery to discharge it.

- The 3M™ Battery Pack BP-15 has a red indicator light, located on the top of the battery by the switch. The red light indicates that the battery has reached a point that it must be recharged. The battery has a low-voltage detection circuit that will engage shortly after the red light comes on. When it engages, the battery will shut down and the turbo will stop running. **Therefore, when the red light comes on, immediately leave the work area and recharge the battery.**
- Note:** If the battery has been run down enough to engage the low voltage detection circuit, the red light will no longer function until the battery has been recharged.
- Charge the 3M™ Battery Pack BP-15 only with the 3M™ Smart Battery Charger BC-210.
- Operational time of battery will be reduced as the operating temperature goes down.
- To properly dispose of the 3M™ Battery Pack BP-15, follow local solid waste disposal regulations or call the RRBC Battery Recycling Information Help line at 1 800 8 BATTERY (1 800-822-8837).

Charging the Battery Pack:

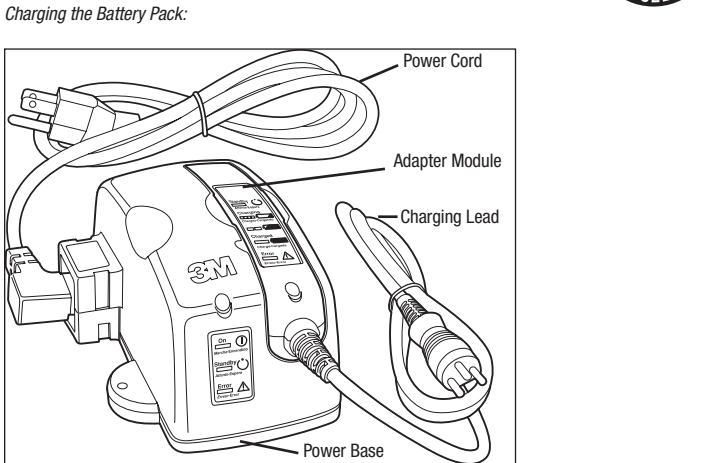


Fig. 1 3M™ Smart Battery Charger BC-210

Weight	BC-210 Smart Battery Charger (BC-100 and BC-210A CAM Module): Approximately 1.7 lb (771 g) Battery pack (NiMH): Approximately 1.8 lb (830 g)
Battery Charging Temperature	50°F to 90°F (10°C to 32°C)
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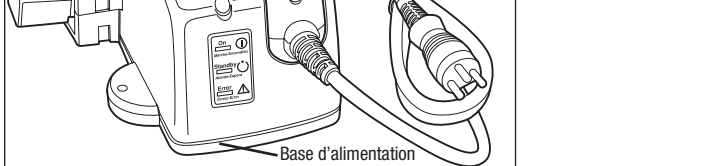


Fig. 1 – Chargeur intelligent BC-210 3M™

▲ WARNING

Do not open or permit water to enter this case.

No field serviceable parts inside case.

Charge battery only in clean, well-ventilated, non-hazardous locations.

For indoor use only.

Replace defective cords immediately.

Failure to comply with the above instructions may cause electric shock, fire or explosion and result in sickness or death.

- Before use of a new 3M™ Smart Battery Charger BC-210, the plastic protective cover must be removed from between the power base and the adapter module. Verify that the smart battery charger is unplugged from any wall outlet. Remove the plastic protective cover by pulling the adapter module straight up out of the power base and removing the plastic protective cover. Replace the adapter module in the power base by pushing it straight down into the power base, aligning the guide slots. The adapter module should not be routinely removed. Repeated removal may damage the electrical contacts in the power base.

- Plug the receptacle end of the charger power cord into the side of the 3M™ Smart Battery Charger BC-210 and the prong end of the power cord into an appropriate electrical outlet (Fig. 1). The charger will automatically detect and self-adjust to input voltages of 100 to 240 volts and frequencies of 50 to 60 Hz.

- Check the LED on the power base (on the left) to determine the status of the charger. See the "Troubleshooting" section.

Power/base Status	LED Status
Power is ok, ready to start charging	Steady green
Excess current, not ready to charge	Steady yellow
Too hot	Steady red

- Insert the charging lead into the charging socket on the top of the 3M Battery Pack BP-15. The LED indicator on the adapter module (on the right) shows the status of the charging process.

Charger Status	LED Status
Power ON	Momentary (single) flash green
Standby; Waiting to charge	Steady yellow
Rapid charging	Rapid flashing green
Top-off charge	Slow flashing green
Charge complete; Ready mode	Steady green
Battery fault	Steady red*

*NOTE: If a charger indicates a battery fault error, unplug and wait 5 minutes before plugging the charger into another battery or the same battery. If error light remains on call 3M™ OHSES Technical Service at 1-800-243-4630 for assistance.

▲ WARNING

There are no field-serviceable parts inside the smart battery charger. Do not attempt to open the charger case or expose the charger to moisture. **Doing so may result in serious bodily injury or death due to electrical shock.**

- The 3M™ Smart Battery Charger BC-210 can be connected (up to ten chargers) to produce a multi-station charger. To connect, first make sure that the charger power cord is unplugged from the electrical outlet. Remove the socket cover from the BC-210 and save for later use. From the bottom of the BC-210 in the semi-circle area remove the screw. Slide male connection on the left of the charger into the female connection on the right side of the other charger. Insert and tighten the screw in the hole from which it was removed. This should now make an assembly of the BC-210s. Add additional 3M™ Smart Battery Charger BC-210 in the same manner up to a maximum of ten (10) chargers total. **When ten (10) chargers are assembled the maximum rated current draw is 6.0 amps. The maximum current rating for a single charger is 0.60 amps.**
- The 3M™ Smart Battery Charger BC-210 adapter module unit should not be regularly removed from the power base. Frequent removal of the adapter module may damage electrical contacts in the power base and cause the charger to malfunction.
- The 3M™ Smart Battery Charger BC-210 should be used in a clean atmosphere free of particulates or other contamination. Particles deposited in between the adapter module and the power base may interfere with proper function of the charger. If the adapter module is removed to clean the power base unit, only compressed air dusters should be used. Aggressive cleaning of the power base or adapter module may damage electrical contacts and cause the charger to malfunction.

▲ WARNING

There are no field-serviceable parts inside the smart battery charger. Do not attempt to open the charger case or expose the charger to moisture. **Doing so may result in serious bodily injury or death due to electrical shock.**

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▲ WARNING

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▲ MISE EN GARDE

Ne pas ouvrir le boîtier et éviter que l'eau y pénètre.

Ne bouter le contenu aucune pièce pouvant être réparée.

Ne charger la pile que dans des endroits propres bien ventilés et ne présentant aucun danger.

Utiliser uniquement à l'intérieur.

Remplacer immédiatement les cordons défectueux.

Tout manquement aux directives ci-dessus peut causer un choc électrique, un incendie ou une explosion et provoquer des problèmes de santé ou la mort.

- Avant d'utiliser un chargeur intelligent BC-210 3M™ neuf, enlever le couvercle protecteur en plastique entre la base d'alimentation et le module adaptateur. S'assurer que le chargeur n'est pas branché dans une prise murale. Enlever le couvercle protecteur en plastique en tirant sur le module adaptateur droit vers le haut pour le retirer de la base d



Requester: Farrel Allen
Creator: deZinnia
File Name: 34870234761.indd
Structure #: SS-13998
Date: 4/13/09

Printed Colors – Front:



Printed Colors – Back:



Match Colors:

Scale:  1 Inch

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