

3M 051131373518

3M TR-644 Battery Charger Kit User Manual

Model: 051131373518

PRODUCT OVERVIEW

The 3M TR-644 Battery Charger Kit is designed as a comprehensive 4-station battery charging solution specifically for 3M TR-600 Series Powered Air Purifying Respirators (PAPRs). This kit includes a TR-944 Power Supply and four TR-640 Cradles, enabling efficient charging of multiple batteries simultaneously.

It is capable of charging both TR-630 standard capacity batteries and TR-632 high capacity batteries in less than 4 hours. The TR-644 charger supports charging up to four batteries concurrently, making it an ideal solution for maintaining multiple PAPR units.



Figure 1: The complete 3M TR-644 Battery Charger Kit, showing the main charging base, four individual charging cradles, and the power supply unit.

SETUP INSTRUCTIONS

Follow these steps to set up your 3M TR-644 Battery Charger Kit:

1. **Unpack Components:** Carefully remove all components from the packaging. Verify that you have the TR-644 charging base, four TR-640 cradles, and the TR-944 power supply.
2. **Connect Cradles:** Insert each of the four TR-640 cradles into the designated slots on the TR-644 charging base. Ensure they click securely into place.
3. **Connect Power Supply:** Plug the TR-944 power supply into the power input port on the TR-644 charging base.
4. **Connect to Power Outlet:** Plug the power supply's AC cord into a standard electrical outlet. The charger is now ready for use.

Convenient use

Holds batteries,
and offers quick
ease of access



Figure 2: The charger's design allows for convenient insertion and removal of batteries, ensuring quick and easy access during operation.

OPERATING INSTRUCTIONS

This section details how to use the TR-644 Battery Charger Kit to charge your TR-600 Series PAPR batteries.

Charging Batteries

1. **Insert Battery:** Gently slide a TR-630 standard capacity battery or TR-632 high capacity battery into an available TR-640 charging cradle. Ensure the battery is fully seated.
2. **Monitor Charging:** The charger will automatically begin charging. Refer to the battery's indicator lights or the charger's status indicators (if present) to monitor the charging progress.
3. **Charging Time:** A fully depleted battery will typically charge in less than 4 hours. Charging time may vary based on the battery's initial charge level and capacity.
4. **Remove Battery:** Once charging is complete (indicated by the battery's full charge indicator), carefully remove the battery from the cradle.

Quickly charges batteries

Like the TR-630, TR-632
and TR-830 batteries



Figure 3: The TR-644 charger is designed for rapid charging of TR-630, TR-632, and TR-830 batteries, ensuring minimal downtime for your PAPR units.



Multi-charger

Charges up to 4
batteries at once

Figure 4: This multi-charger can simultaneously charge up to four batteries, significantly improving efficiency for operations requiring multiple charged batteries.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your TR-644 Battery Charger Kit.

- **Cleaning:** Disconnect the charger from the power outlet before cleaning. Use a soft, dry cloth to wipe down the exterior surfaces of the charging base and cradles. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the charger in a clean, dry environment away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the power cord and charging cradles for any signs of damage, such as fraying, cuts, or bent pins. If damage is observed, discontinue use and contact 3M customer support.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your TR-644 Battery Charger Kit.

Problem	Possible Cause	Solution
Charger not powering on.	Power cord not securely connected; power outlet not active; faulty power supply.	Ensure power cord is fully plugged into both the charger and the wall outlet. Test the outlet with another device. If issue persists, contact 3M support.
Battery not charging.	Battery not properly seated; battery is faulty; charging cradle is faulty.	Re-insert the battery, ensuring it is fully seated in the cradle. Try charging a different battery in the same cradle, or the same battery in a different cradle, to isolate the issue.
Charging takes longer than 4 hours.	Battery deeply discharged; battery nearing end of life.	Allow additional time for deeply discharged batteries. If consistently slow, the battery may need replacement.

SPECIFICATIONS

Key specifications for the 3M TR-644 Battery Charger Kit:

- **Model Number:** 051131373518
- **ASIN:** B00TYOZXRI
- **Manufacturer:** 3M
- **Product Dimensions:** 2.54 x 2.54 x 2.54 cm (1 x 1 x 1 inches)
- **Item Weight:** 3.06 kg (6.75 lbs)
- **Compatible Batteries:** 3M TR-630 Standard Capacity Battery, 3M TR-632 High Capacity Battery (for TR-600 Series PAPRs)
- **Charging Capacity:** Up to 4 batteries simultaneously
- **Charging Time:** Less than 4 hours for a fully depleted battery

WARRANTY AND SUPPORT

For detailed warranty information and technical support regarding your 3M TR-644 Battery Charger Kit, please refer to the documentation included with your purchase or visit the official 3M website. Contact information for customer service is typically available on the product packaging or the manufacturer's support pages.

You can also visit the [3M Store on Amazon](#) for additional product information and resources.