### LI-ION Battery Packs and Chargers

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. #</th>
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<tbody>
<tr>
<td>Batteries: LI-ION</td>
<td>LBX20, LBXR20, LBXR2020, LB2X4020</td>
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<tr>
<td>Chargers: LI-ION</td>
<td>LCS1620, L2AFCBST, L2AFC</td>
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**CHARGING PROCEDURE**

The standard charger provided will charge a fully depleted battery in about 5 hours.
1. Plug the charger into an appropriate outlet before inserting the battery pack.
2. Slide the charger onto the battery pack as shown in **figure B**.
3. The green LED will flash indicating that the battery is being charged.
4. The completion of charge is indicated by the green LED remaining on continuously. The pack is fully charged and may be used at this time or left on the charger.

*Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished.*

**LEAVING THE BATTERY IN THE CHARGER**

The charger and battery pack can be left connected with the green LED glowing indefinitely. The charger will keep the battery pack fresh and fully charged.

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**IMPORTANT CHARGING NOTES**

1. Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 60°F and 80°F (16° - 27°C). DO NOT charge the battery pack in an air temperature below +40°F (+4.5°C), or above +105°F (+40.5°C). This is important and will prevent serious damage to the battery pack.
2. The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated trailer.
3. If the battery pack does not charge properly:
   a. Check current at receptacle by plugging in a lamp or other appliance.
   b. Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights.
   c. Move charger and battery pack to a location where the surrounding air temperature is approximately 60°F - 80°F (16° - 27°C).
   d. If charging problems persist, take the tool, battery pack and charger to your local service center.
4. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.
5. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.
6. Do not freeze or immerse charger in water or any other liquid.

TROUBLESHOOTING
TRIMMER RUNS SLOWLY
• Remove Battery from tool.
• Check that the spool housing can rotate freely. Carefully clean it if necessary.
• Check that the cutting line does not protrude more than approximately 5-3/8 inches (136mm) from the spool. If it does, cut it off so that it just reaches the line trimming blade.

AUTOMATIC LINE FEED DOES NOT WORK
• Remove Battery from tool.
• Remove the spool cap.
• Pull the cutting line until it protrudes approximately 5-3/8 inches (136mm) from the spool. If insufficient cutting line is left on the spool, install a new spool of cutting line.
• Ensure that the line is not crisscrossed on the spool as detailed in figure R. If it is, unwind the cutting line, then wind it back on the spool neatly so that the lines do not cross.
• Ensure the beginning of the cutting line is pulled tight against the spool as shown in figure Q.

• Align the tabs on the spool cap with the cut outs in the housing.
• Push the spool cap onto the housing until it snaps securely into place.
• If the cutting line protrudes beyond the trimming blade, cut it off so that it just reaches the blade.
  If the automatic line feed still does not work or the spool is jammed, try the following suggestions:
  • Carefully clean the spool and housing.
  • Remove the spool and check if the lever in the spool housing can move freely.
  • Remove the spool and unwind the cutting line, then wind it on neatly again. Replace the spool into the housing.

SERVICE INFORMATION
All BLACK+DECKER Service Centers are staffed with trained personnel to provide customers with efficient and reliable service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the BLACK+DECKER location nearest you. To find your local service location, call: 1-800-544-6986 or visit www.blackanddecker.com