

Source: Leece-Neville Heavy Duty Systems Division - Arcade, NY USA  
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Bulletin No: TSB-1166  
Models: All Starters  
Subject: Starter Motor Safety Precautions

### SAFETY PRECAUTIONS

- Ensure that the starter is rigidly mounted and that the pinion is correctly aligned with the flywheel.
- The starter should not be mounted under the fuel pump or filter etc., unless adequate protection can be provided by means of a splash guard.
- If the starter is mounted close to the engine exhaust, the turbocharger, or other direct sources of heat, a heat shield is required. Ensure that the cables are securely fixed and away from all moving parts and excessive temperatures.
- Rubber terminal covers should be fitted to prevent exposed terminals suffering from corrosion. These rubber covers also help to prevent accidental contact with live terminals.
- Open flywheel applications can lead to severe corrosion of the shaft on nose type starters. To prevent this damage on these applications, use a noseless starter where the shaft retracts into the starter, thus preventing the opportunity for corrosion.
- A battery cut-off switch should be used for safety, under fault conditions.
- The starter must not be operated by bridging across the terminals. Insulating caps should be fitted to prevent intentional or accidental connection across terminals.
- The starter must not be used for moving the vehicle in a “no start” condition.
- Always remove Bat. and GND (GND first) before adjusting or removing the starter . Do not pull the pinion forward with the starter connected. The battery should be maintained in a good condition, particularly regarding the state of charge and the electrical connections, as these are the main causes of poor starting and of starter motor failure. Always keep the battery and cable connections clean.

Important: The information contained in this bulletin is intended for use by trained, professional technicians who have the proper tools, equipment, and training to perform the required maintenance described above. This information is NOT intended for 'do-it-yourselfers', and you should not assume that this information applies to your equipment. If you have any questions regarding this information please visit our website at [www.prestolite.com](http://www.prestolite.com), or contact our technical service department at: