

Source: Leece-Neville Heavy Duty Systems Division - Arcade, NY USA  
Date: July 7, 2017  
Bulletin No: TSB-1143  
Models: M125R2001SEP, M125R3001SEP  
Subject: Soft start relay change procedure

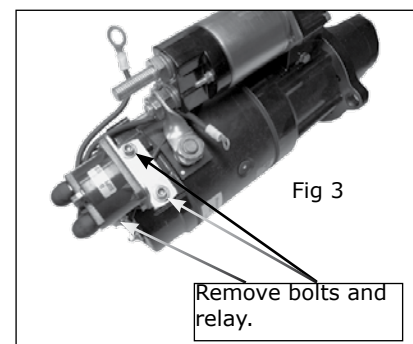
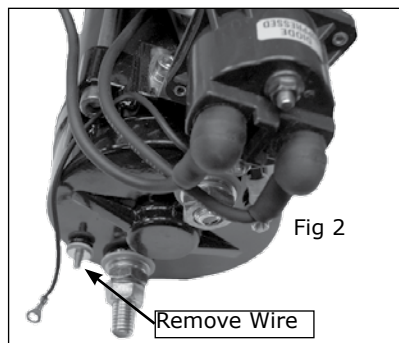
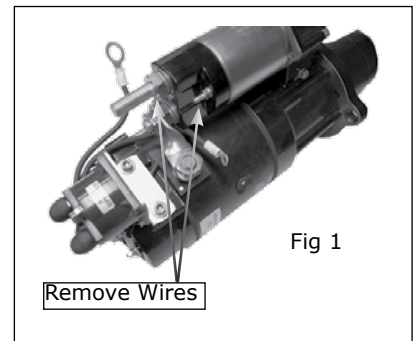
We have moved our soft start relay on the M125R starter motors to make them more versatile and able to fit on more applications. The ability to rotate the relay into any position will give you the flexibility to avoid clearance problems when installing on the vehicle.

This TSB will explain how to install this new relay on your starter.



Relay Removal:

- 1) Remove hardware and wires from starter solenoid. Fig 1  
Note: Keep all hardware removed as some of it will be reused.
- 2) Remove hardware and wire from starter rear housing. Fig 2
- 3) Remove bolts attaching relay to starter and remove relay. Fig 3



**NOTE:** For starter motor safety precautions please reference TSB-1166.

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:

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- 4) Re-install hardware and torque to 26.5-35.4 lbs-in (3-4 Nm)  
Fig 4

Relay Installation:

Note: Replacement relay comes with wires attached.

- 5) Remove nut and open clamp on new relay assembly. Fig 5

- 6) Install relay clamp around starter solenoid and install nut.  
Position relay to the desired position and tighten nut.  
Torque relay clamp nut to 55-60 lbs-in.(6.2-6.7Nm). Fig 6

- 7) Install relay wires and terminal hardware.  
Torque per Fig 7

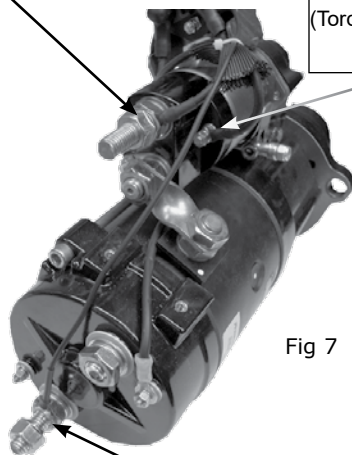
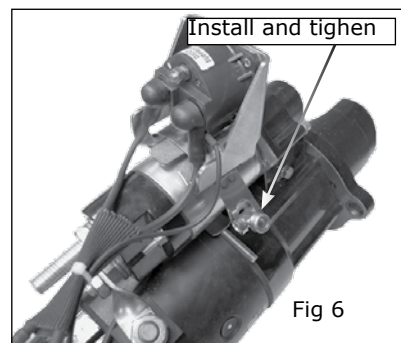
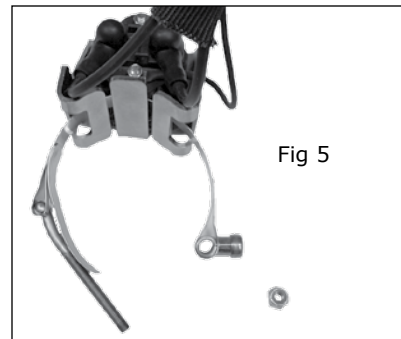
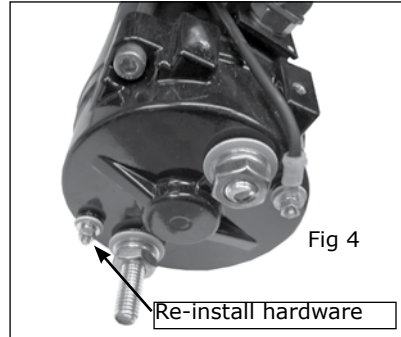
- 8) Installation complete

Please refer to TSB-1063A for vehicle wiring diagram.

Short #8 AWG wire with 1/2" ring terminal. (Torque: Finger Tight)  
Torque: 20-22 lbs.-ft (27-30Nm)  
when installing on vehicle.

Short #8 AWG wire with #10 ring terminal.  
(Torque: 26.5-35.4 lbs-in (3-4 Nm)

Long #16 AWG wire with 1/2" ring terminal. (Torque: Finger Tight)  
Torque: 20-22 lbs.-ft (27-30Nm)  
when installing on vehicle.



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