

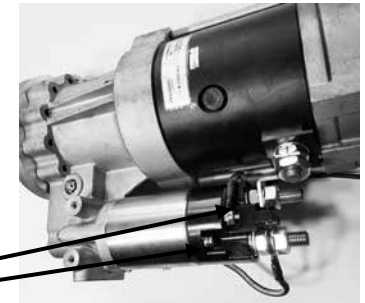
Source: Leece-Neville Heavy Duty Systems Division - Arcade, NY USA
Date: June 18, 2020
Bulletin No: TSB-1181
Models: M128
Subject: M128 Solenoid Replacement

Tools Needed:

- 7/8 Inch Socket
- 3/4 Inch Socket
- 10mm Socket
- Ratchet
- #5 Metric Allen Wrench
- Blue Threadlocker
- Torque wrench



- 1) Remove the 2 nuts holding the large copper jumper (3/4 and 7/8 inch sockets) (Fig 1)
Support inner nut while removing outer nut to prevent turning of negative stud.
Save Nuts and copper jumper



Remove Nuts

Figure 1

- 2) Remove large copper jumper and battery connection nut. (3/4 inch socket) (Fig 2)
Support inner nut while removing outer nut to prevent turning of negative stud



Jumper

Remove Nut

Figure 2

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

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- 3) Remove IMS Power Lead Wire From Battery Terminal Bolt (Fig 3)
- 4) Remove Small 10mm Nut and IMS Lead Wire (Fig 4 and 5) (10mm socket) Support inner nut to prevent stud from turning.



Figure 3



Figure 4

Remove 10mm Nut

Remove lead wire



Figure 5

- 5) Remove nut attaching solenoid ground wire. Support inner nut while removing outer nut to prevent turning of negative stud. (Fig 6 and 7)

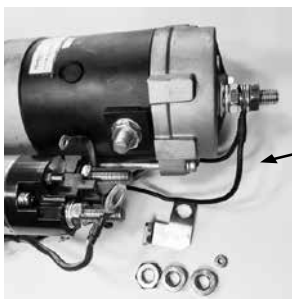


Figure 6

Remove the Solenoid ground wire from the system ground bolt (Fig 6 and 7)



Figure 7

Now the Solenoid is ready to remove.

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- 6) Remove the three hex head bolts securing the solenoid using a metric #5 allen wrench. (Fig 8)

Remove 3 screws

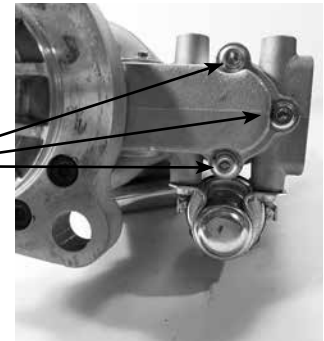


Figure 8

- 7) Remove the Solenoid. (Fig 9)

Solenoid

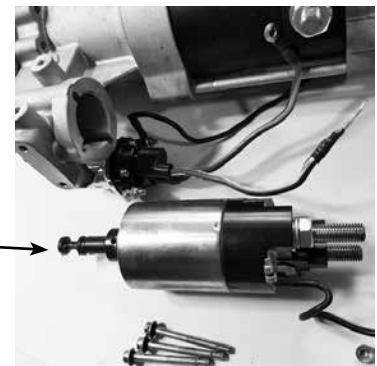


Figure 9

- 8) Apply Blue Threadlocker to the three Hex Head Bolts. (Fig 10)

Threadlocker



Figure 10

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- 9) Be sure to line up the holes in the rubber gasket when inserting the three hex head bolts to secure the new Solenoid. (Fig 11)
Tighten the three bolts securely.

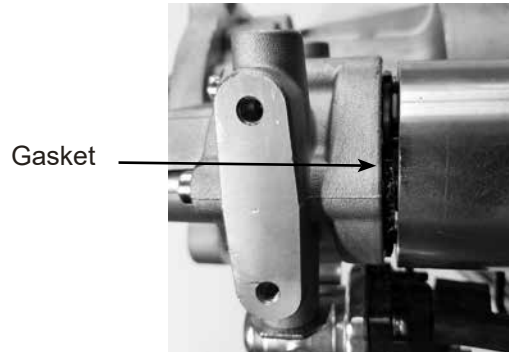


Figure 11

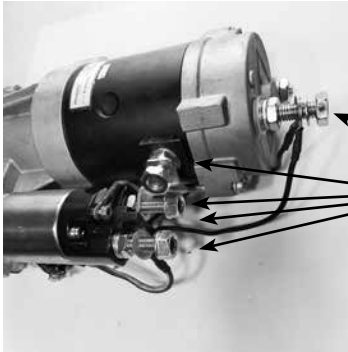


Figure 12

**Hold inner nuts to prevent studs from turning while tightening.
(Hold inner nuts with a Spanner)**

Recommended Tightening Torque for Outer Terminal Nuts

M12 X 1.75 (Battery Terminal) (Fig 1)	24.7 – 27.5 Nm
M12 X 1.75 (Sense Terminal) (Fig 2)	24.7 – 27.5 Nm
1/2" X 13 (Negative Terminal) (Fig 6)	24.7 – 27.5 Nm
M5 X 0.8 (IMS Lead Wire) (Fig 5)	2 – 2.5 Nm

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