

Source: Leece-Neville Heavy Duty Systems Division - Arcade, NY USA  
 Date: JULY 7, 2017  
 Bulletin No: TSB-1144  
 Models: 5078R, 5042R, 6014R and 6026R  
 Subject: Regulator retrofit procedure

**This procedure was created to help convert vehicles that used our 5078R(12V) and 5042R(24V) remote regulators to our newer 8RD2041S(12V) and 8RD3043S(24V) regulators.**

**Remote regulated systems procedure:**

- 1) Disconnect vehicle batteries.
- 2) Identify and label vehicles wires connecting to voltage regulator and relay as indicated in Fig 1.
- 3) Remove ①, ②, ③ wires from relay and +, -, F wires from regulator terminals. Remove both regulator and relay from vehicle. Fig 1

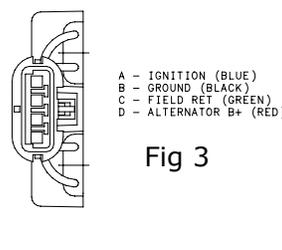
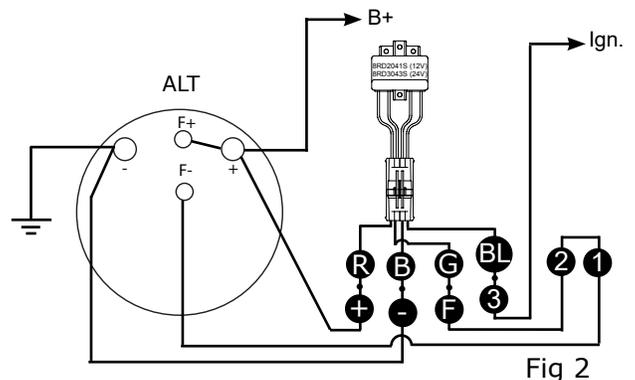
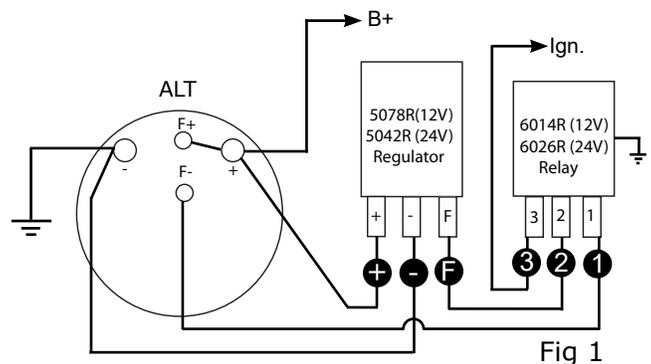
Note: Relay will not be needed when using the replacement regulator.

- 4) Install new 8RD style regulator.
- 5) Wiring, please refer to steps below. Fig 2

- A) Splice wires ① and ② together and apply shrink tubing to prevent shorting.
- B) Connect wire ③ to (Blue BL / A Pin) on voltage regulator.
- C) Connect wire F to (Green G / C Pin) on voltage regulator.
- D) Connect wire + to (Red R / D Pin) on voltage regulator.
- E) Connect wire - to (Black B / B Pin) on voltage regulator.

Note: Regulator pin identifications can be found in Fig 3

- 6) Connect batteries and test for proper operation.



8RD2041S  
8RD3043S

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**Remote regulated systems with battery isolator procedure:**

- 1) Disconnect vehicle batteries.
- 2) Identify and label vehicles wires connecting to voltage regulator and relay as indicated in Fig 4.
- 3) Remove ①, ②, ③ wires from relay and +, -, F wires from regulator terminals. Remove blocking diode from regulator + terminal and relay ③ terminal. Fig 4  
Remove regulator, relay and blocking diode from vehicle.

Note: Relay and blocking diode will not be needed when using the replacement regulator.

- 4) Remove short jumper wire connecting alternator F+ and B+ terminals. Install a new (14 AWG min.) wire X from the alternator F+ terminal to the battery isolator start battery post. Fig 5

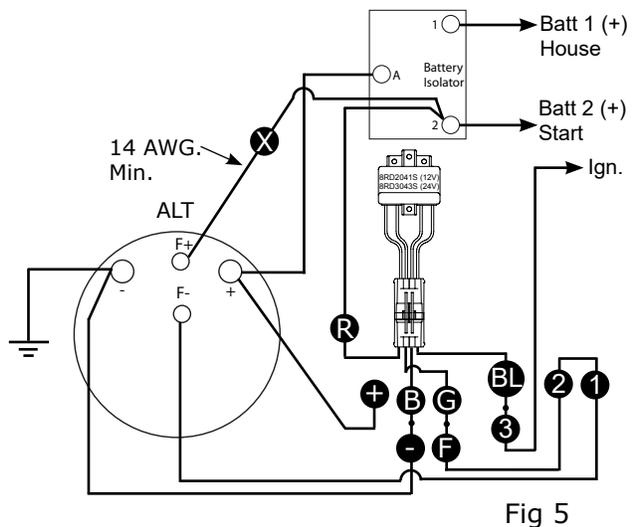
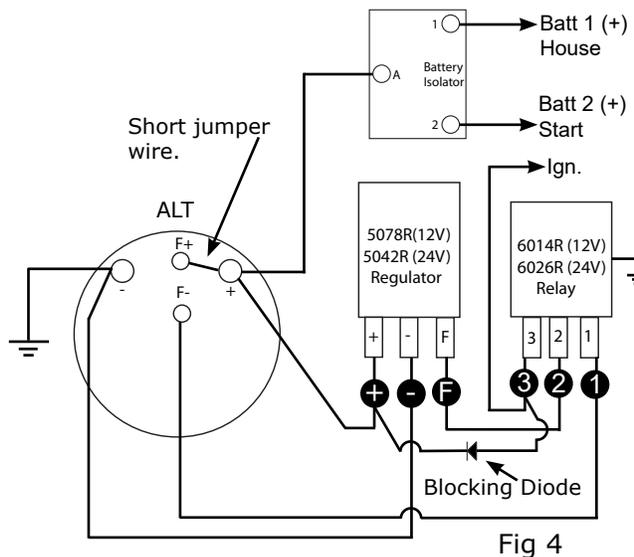
- 5) Install new 8RD style regulator.

- 6) Wiring, please refer to steps below. Fig 5

- A) Splice wires ① and ② together and apply shrink tubing to prevent shorting.
- B) Connect wire ③ to (Blue BL / A Pin) on voltage regulator.
- C) Connect wire F to (Green G / C Pin) on voltage regulator.
- D) + Wire is not needed. Insulate wire or remove to prevent shorting.
- E) Connect wire R to battery isolator start battery post.
- F) Connect wire - to (Black B / B Pin) on voltage regulator.

Note: Regulator pin identifications can be found on page one Fig 3 of this document.

- 7) Connect batteries and test for proper operation.



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### Remote regulated and rectified systems procedure.

- 1) Disconnect vehicle batteries.
- 2) Identify and label vehicles wires connecting to voltage regulator and relay as indicated in Fig 6.

- 3) Remove ①, ②, ③ wires from relay and +, -, F wires from regulator terminals. Remove both regulator and relay from vehicle. Fig 6

Note: Relay will not be needed when using the replacement regulator.

- 4) Install new 8RG style regulator.
- 5) Wiring, please refer to steps below. Fig 7

- A) Splice wires ① and ② together and apply shrink tubing to prevent shorting.
- B) Connect wire ③ to (Blue **BL** / A Pin) on voltage regulator.
- C) Connect wire **F** to (Green **G** / C Pin) on voltage regulator.
- D) Connect wire **+** to (Red **R** / D Pin) on voltage regulator.
- E) Connect wire **-** to (Black **B** / B Pin) on voltage regulator.

Note: Regulator pin identifications can be found on page one Fig 3 of this document.

- 6) Connect batteries and test for proper operation.

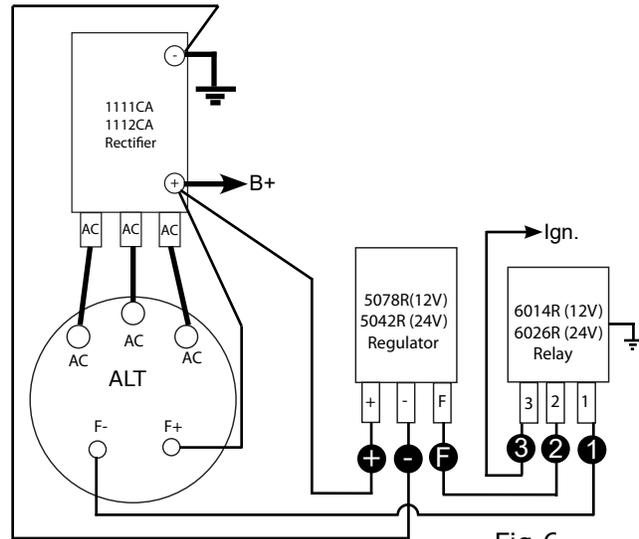


Fig 6

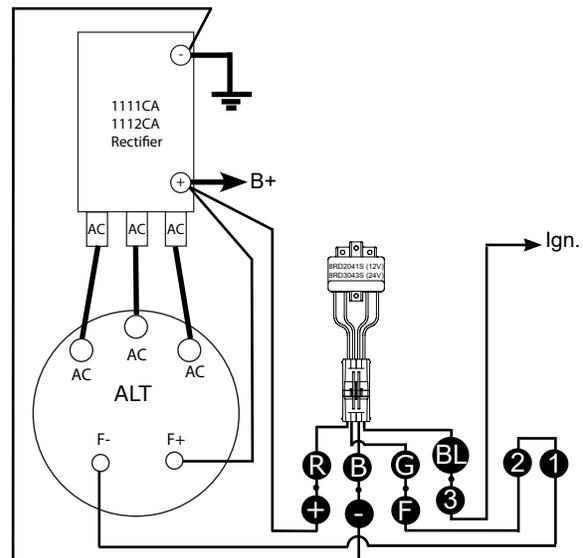


Fig 7

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**Remote regulated and rectified systems with battery isolator procedure:**

- 1) Disconnect vehicle batteries.
- 2) Identify and label vehicles wires connecting to voltage regulator and relay as indicated in Fig 8.
- 3) Remove **1**, **2**, **3** wires from relay and **+**, **-**, **F** wires from regulator terminals. Remove blocking diode from regulator **+** terminal and relay **3** terminal. Fig 8  
Remove regulator, relay and blocking diode from vehicle.

Note: Relay and blocking diode will not be needed when using the replacement regulator.

- 4) Move wire **X** originally connecting alternator F+ and rectifier + terminals to the battery isolator start battery post. Fig 9

- 5) Install new 8RD style regulator.

- 6) Wiring, please refer to steps below. Fig 9

- A) Splice wires **1** and **2** together and apply shrink tubing to prevent shorting.
- B) Connect wire **3** to (Blue **BL** / A Pin) on voltage regulator.
- C) Connect wire **F** to (Green **G** / C Pin) on voltage regulator.
- D) **+** Wire is not needed. Insulate or remove wire to prevent shorting.
- E) Connect wire **R** to battery isolator start battery post.
- F) Connect wire **-** to (Black **B** / B Pin) on voltage regulator.

Note: Regulator pin identifications can be found on page one Fig 3 of this document.

- 7) Connect batteries and test for proper operation.

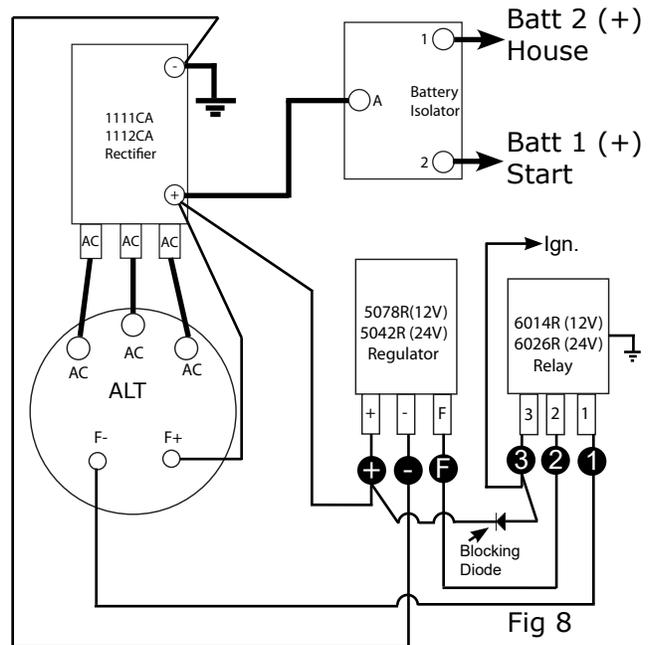


Fig 8

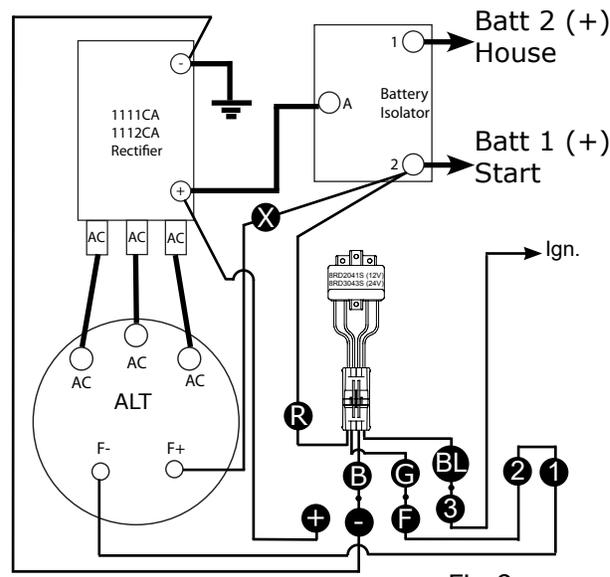


Fig 9

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