



This kit contains a new wiring harness with a larger-sized connector assembly than what it may be replacing. Remove front cover of control unit.

If gray field connector
is attached
to the housing with a clip:



Figure 1 — Gray Field Connector Attached to Housing with Clip



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If gray field connector
is secured
with wire ties only:



Figure 2 — Gray Field Connector Secured with Wire Ties Only



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**These instructions should be used in place of
harness replacement instructions
in 700 Series Service Manual SM7**

If the gray field connector is attached with clip...

1. Disconnect existing wiring harness terminals:
 - a. Slide existing field connector holder from clip.

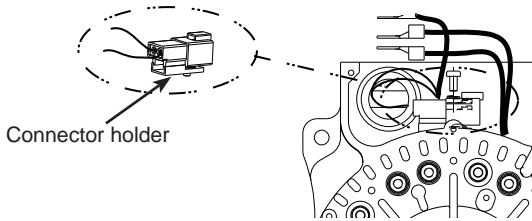


Figure 3 — Disconnecting Field Connector

- b. Slide assembled connector onto clip and make sure it is secure.
 - c. Use new male end provided in kit only if needed.
6. Using splice and sleeves from kit: crimp, solder, and insulate brown wire from new harness to existing brown wire from thermal switch.
7. Reassemble internal B+ connection and hardware as shown in Figure 6.

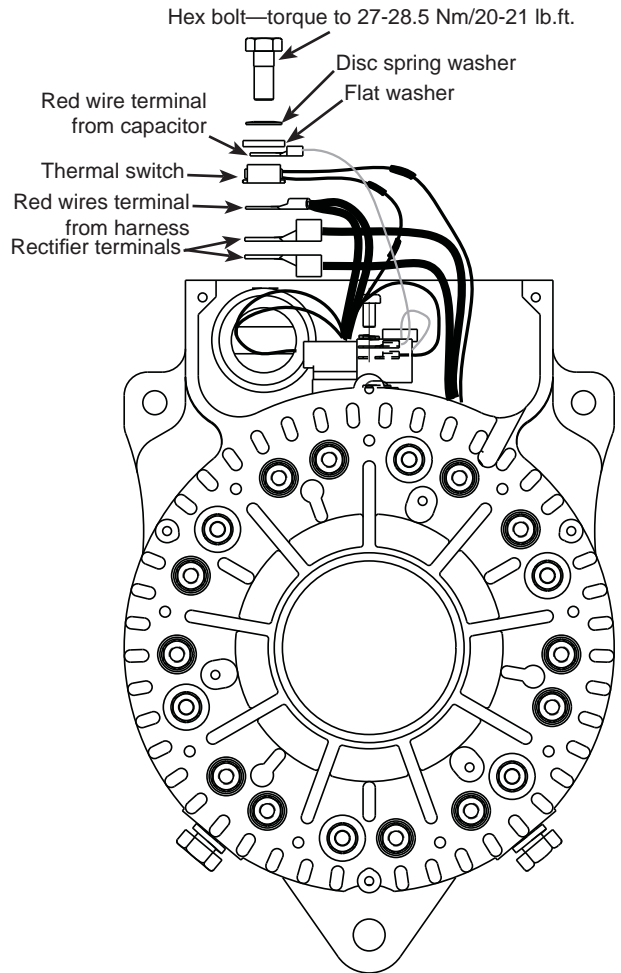


Figure 6 — Internal B+ Stacking Order

- b. Remove black and white wires from female end and discard parts of female end of connector. Do not remove pins from ends of black and white wires.
 - c. Disconnect internal B+ connection, saving hardware for reassembly.
 - d. Disconnect two green wires from housing. Save hardware for reassembly.
 - e. Disconnect existing wiring harness from thermal switch (see Figure 4):
 - 1) Cut brown wire from existing harness to thermal switch, leaving enough length from thermal switch for reassembly, and strip 1/4 inch of insulation.
 - 2) Leave other brown wire to thermal switch as-is for reassembly.

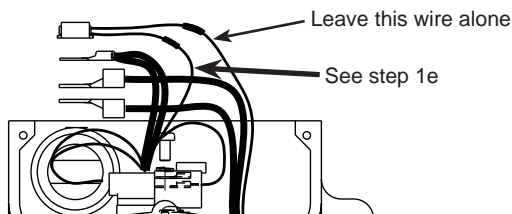


Figure 4 — Thermal Switch Wiring

2. Remove existing wiring harness from housing, taking the grommet out as well. Discard harness and grommet.
3. Install wiring harness into notch in plate, making sure grommet is securely wedged in notch.
4. Reconnect green ground wire and green wire in housing. Torque screw and lockwasher to 3.4 Nm/45 lb. in.
5. Re-assemble gray field connector:
 - a. Assemble new female connector end onto black and white wires of new harness as shown in Figure 5.

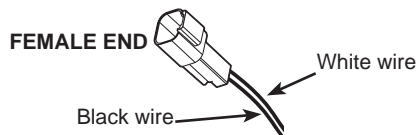
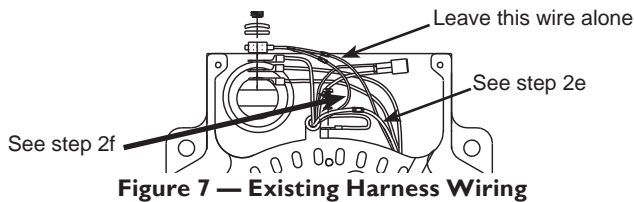


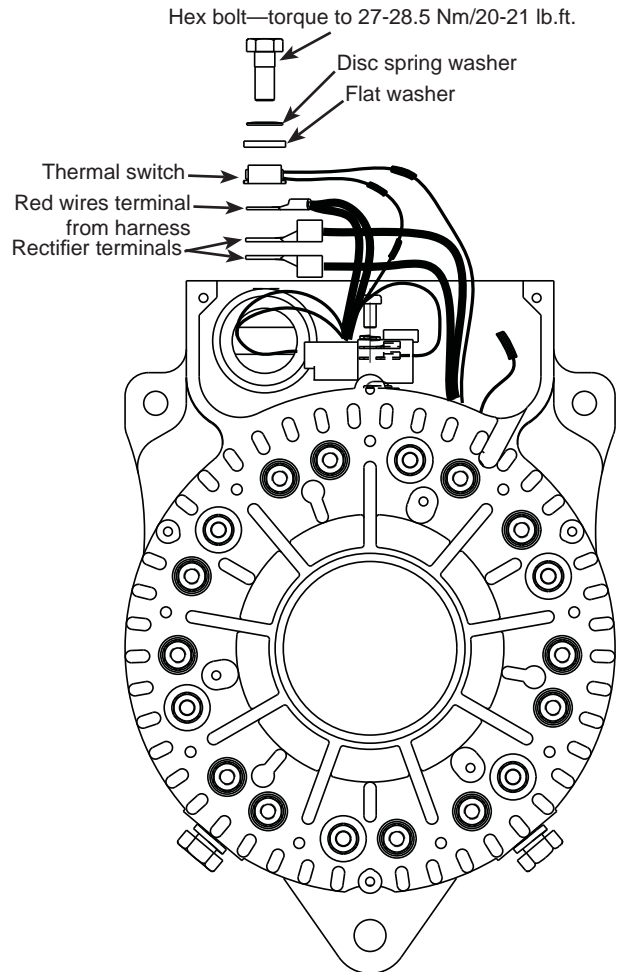
Figure 5 — Field Coil Connector Assembly

If the gray field connector is secured with wire ties only...

1. Clip wire ties inside control unit.
2. Disconnect existing wiring harness terminals:
 - a. Remove black and white wires from female end and discard parts of female end of connector. Do not remove pins from ends of black and white wires.
 - c. Disconnect internal B+ connection, saving hardware for reassembly.
 - d. Disconnect green ground wire from housing. Save hardware for reassembly.
 - e. Cut red wire from diode trio in housing and use sleeving to insulate. It will not need to be reattached to new harness. See Figure 7.
 - f. Disconnect existing wiring harness from thermal switch (see Figure 7):
 - 1) Cut brown wire from existing harness to thermal switch, leaving enough length from thermal switch for reassembly, and strip 1/4 inch of insulation.
 - 2) Leave other brown wire to thermal switch as-is for reassembly.



7. Using splice and sleeves from kit: crimp, solder, and insulate brown wire from new harness to existing brown wire from thermal switch.
8. Reassemble internal B+ connection and hardware as shown in Figure 9.
9. Attach new wire ties to firmly secure connector and other wires inside control unit.



3. Remove existing wiring harness from housing, taking the grommet out as well. Discard harness and grommet.
4. Install wiring harness into notch in plate, making sure grommet is securely wedged in notch.
5. Reconnect green ground wire in housing, Torque screw and lockwasher to 3.4 Nm/ 45 lb. in.
6. Re-assemble new gray field connector:
 - a. Assemble new female connector end onto black and white wires of new harness as shown in Figure 8.
 - b. Save new male end of gray field coil connector provided in kit to replace existing male end of connector connecting field coil leads from shell.

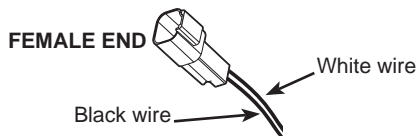


Figure 8 — Field Coil Connector Assembly

Figure 9 — Internal B+ Stacking Order