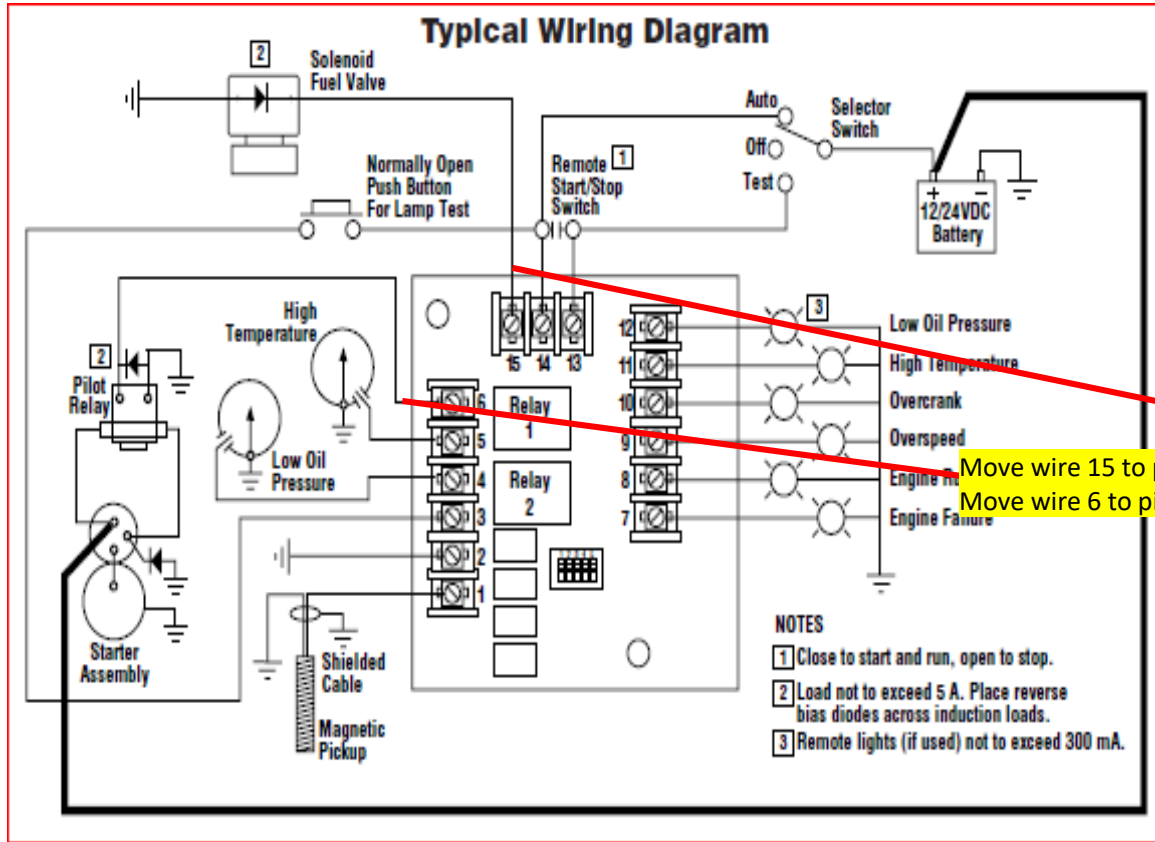
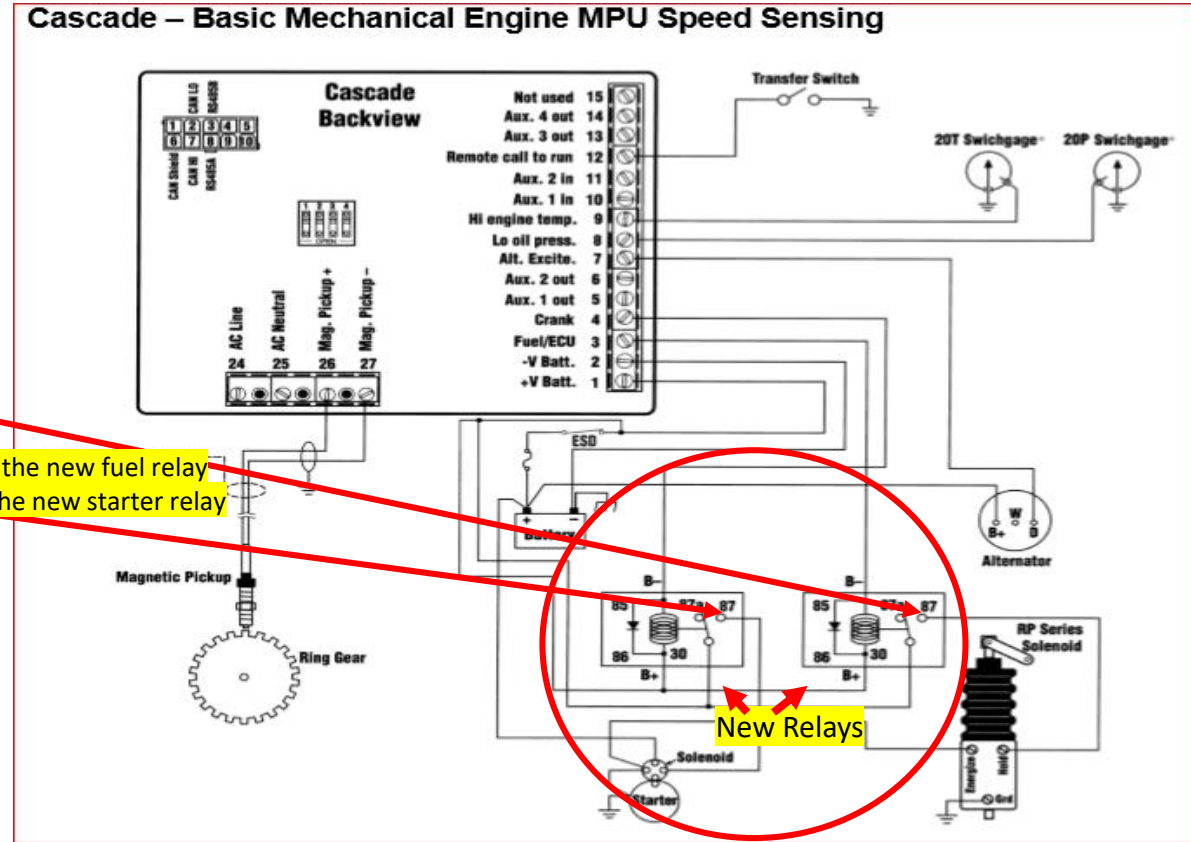


Replacing ASM150 with CD101

Step by step guide to aid in replacing the ASM150 with a CD101



Outputs to the Relays on the ASM150 are B+

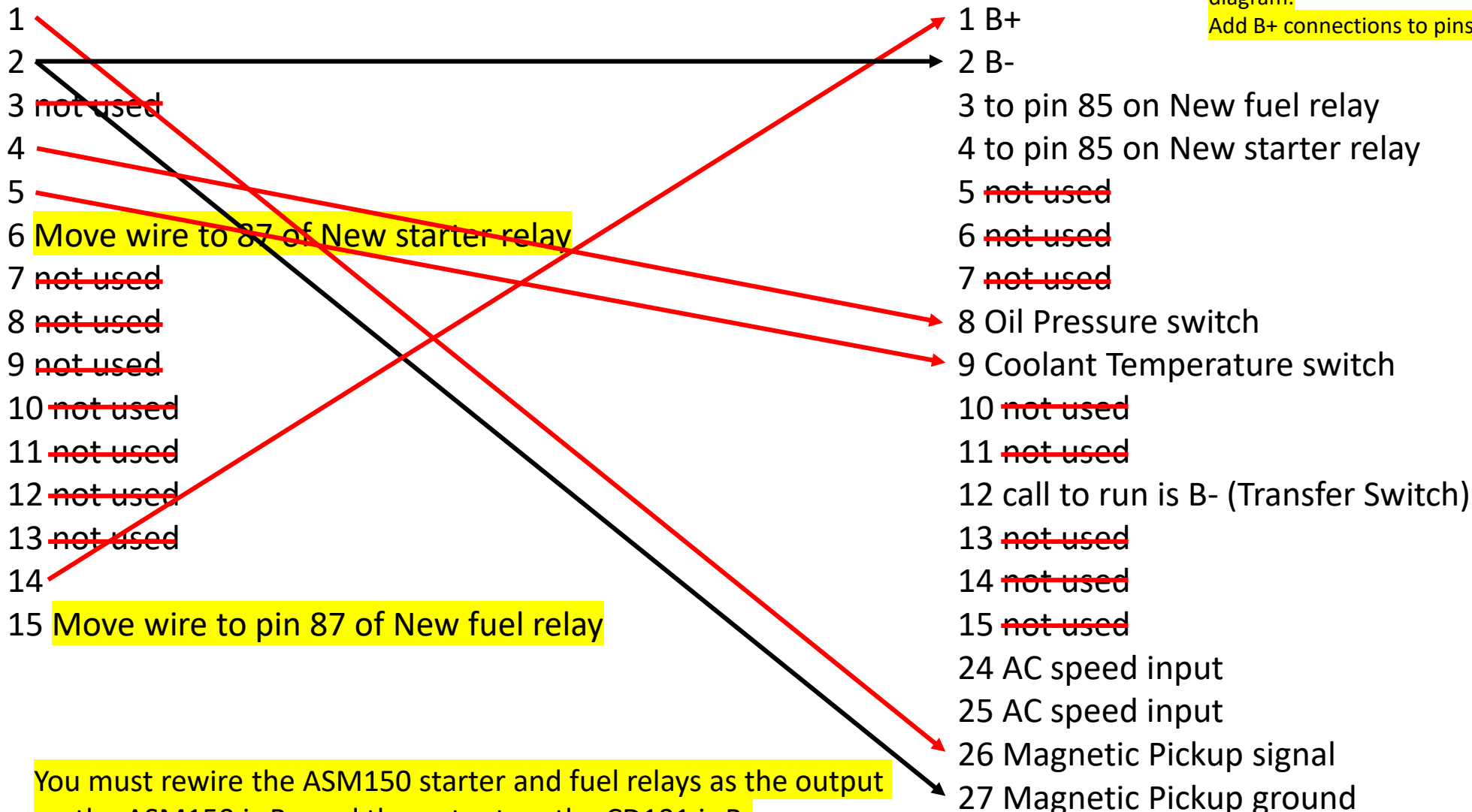


Outputs to the Relays on the CD101 are B-

ASM150 Terminal Crossover to

CD101

Note: Two relays must be added as shown in the CD101 diagram.
Add B+ connections to pins 86 and 30 of the new relays.



You must rewire the ASM150 starter and fuel relays as the output on the ASM150 is B+ and the output on the CD101 is B-

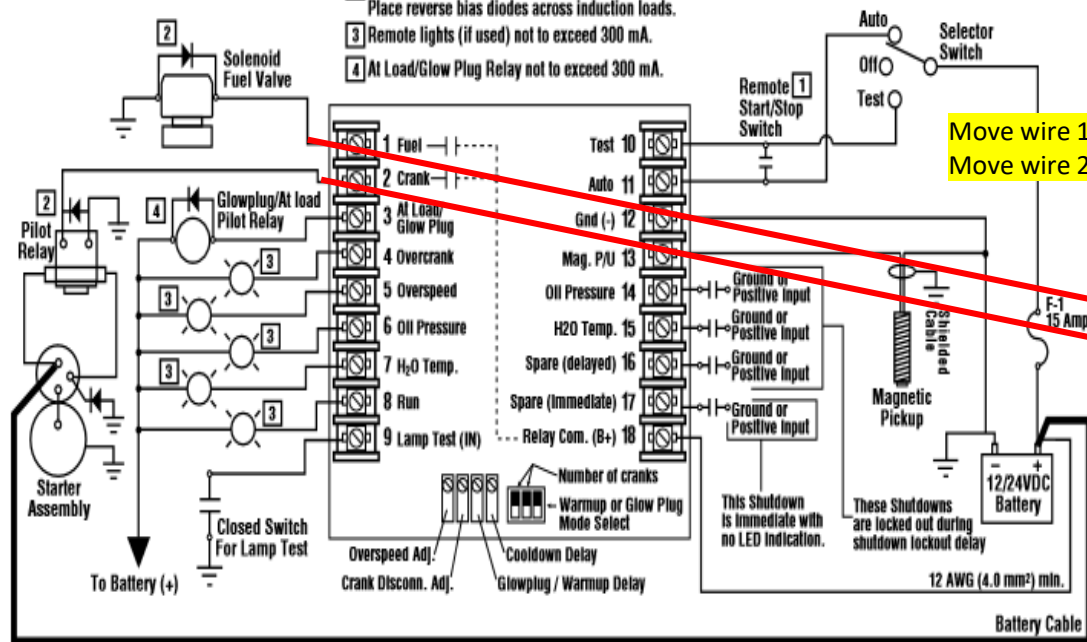
Replacing ASM160 with CD101

Step by step guide to aid in replacing the ASM160 with a CD101

Typical Wiring Diagram

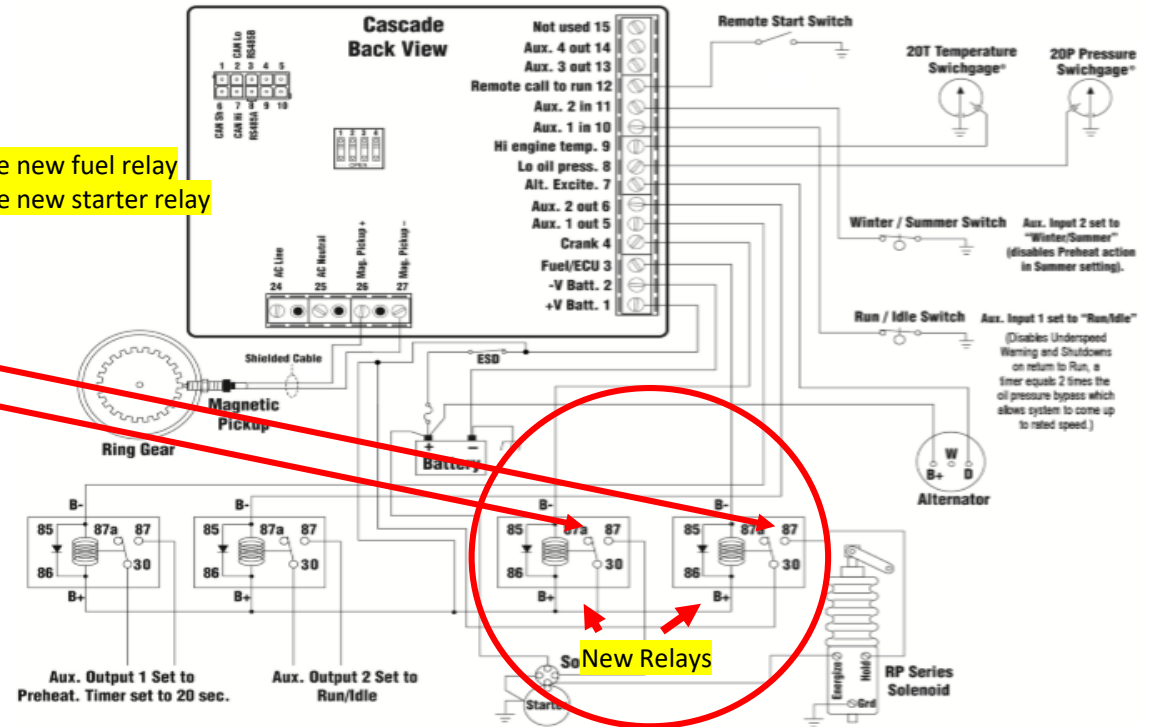
NOTES: 1 Close to start and run, open to stop.

- 2 For Pilot Duty Only. External Load not to exceed 5 A. Place reverse bias diodes across induction loads.
- 3 Remote lights (if used) not to exceed 300 mA.
- 4 At Load/Glow Plug Relay not to exceed 300 mA.



Move wire 1 to pin 87 of the new fuel relay
Move wire 2 to pin 87 of the new starter relay

Mechanical Engine Winter/Summer Switch, Preheat Output, and Run & Idle Switch Output



So New Relays

Outputs to the Relays on the ASM160 are B+

Outputs to the Relays on the CD101 are B-

ASM160 Terminal Crossover to

CD101

Note: Two relays must be added as shown in the CD101 diagram.
Add B+ connections to pins 86 and 30 of the new relays.

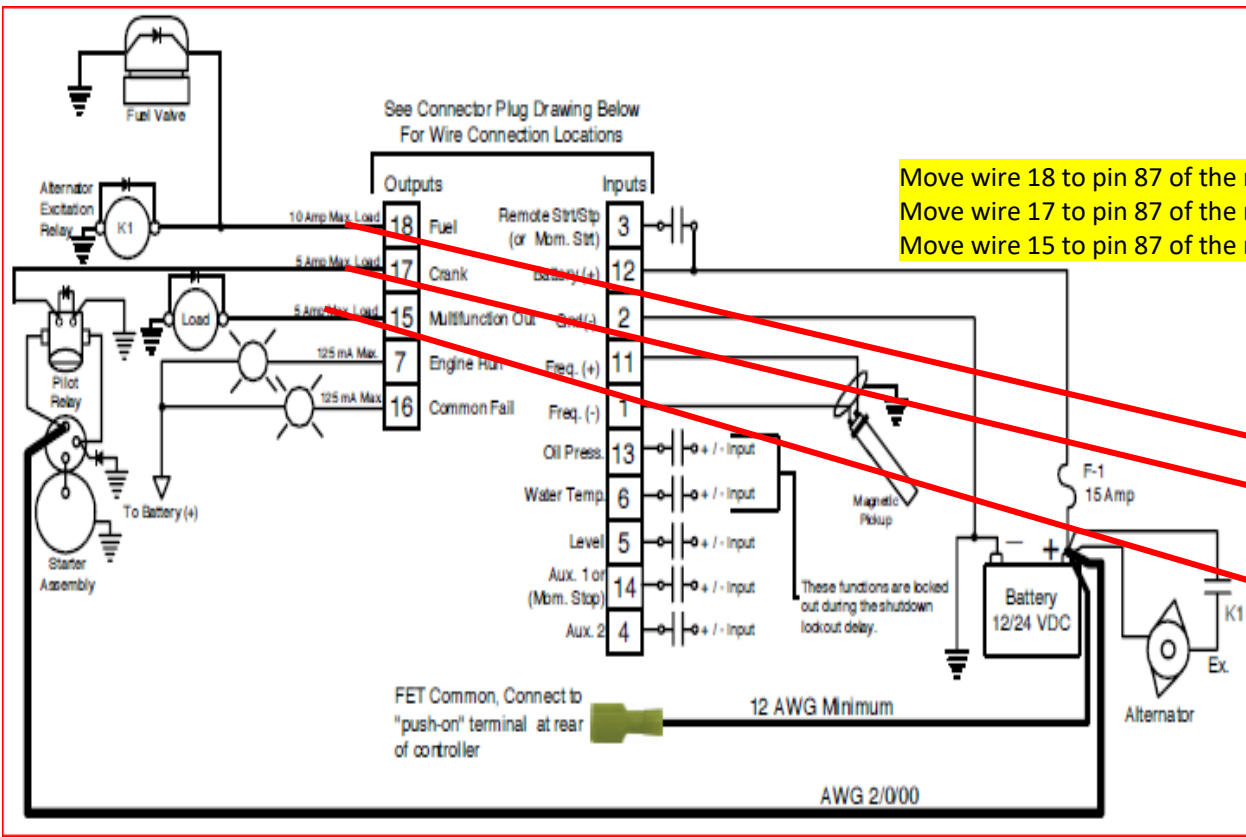
- 1 Move wire to pin 87 of New fuel relay
- 2 Move wire to 87 of New starter relay
- 3
- 4 ~~not used~~
- 5 ~~not used~~
- 6 ~~not used~~
- 7 ~~not used~~
- 8 ~~not used~~
- 9 ~~not used~~
- 10 ~~not used~~
- 11
- 12
- 13
- 14
- 15
- 16 ~~not used~~
- 17 ~~not used~~
- 18 ~~not used~~

- 1 B+
- 2 B-
- 3 to pin 85 on New fuel relay
- 4 to pin 85 on New starter relay
- 5 Glow Plug
- 6 ~~not used~~
- 7 ~~not used~~
- 8 Oil Pressure switch
- 9 Coolant Temperature switch
- 10 ~~not used~~
- 11 ~~not used~~
- 12 call to run is B- (Transfer Switch)
- 13 ~~not used~~
- 14 ~~not used~~
- 15 ~~not used~~
- 24 AC speed input
- 25 AC speed input
- 26 Magnetic Pickup signal
- 27 Magnetic Pickup ground

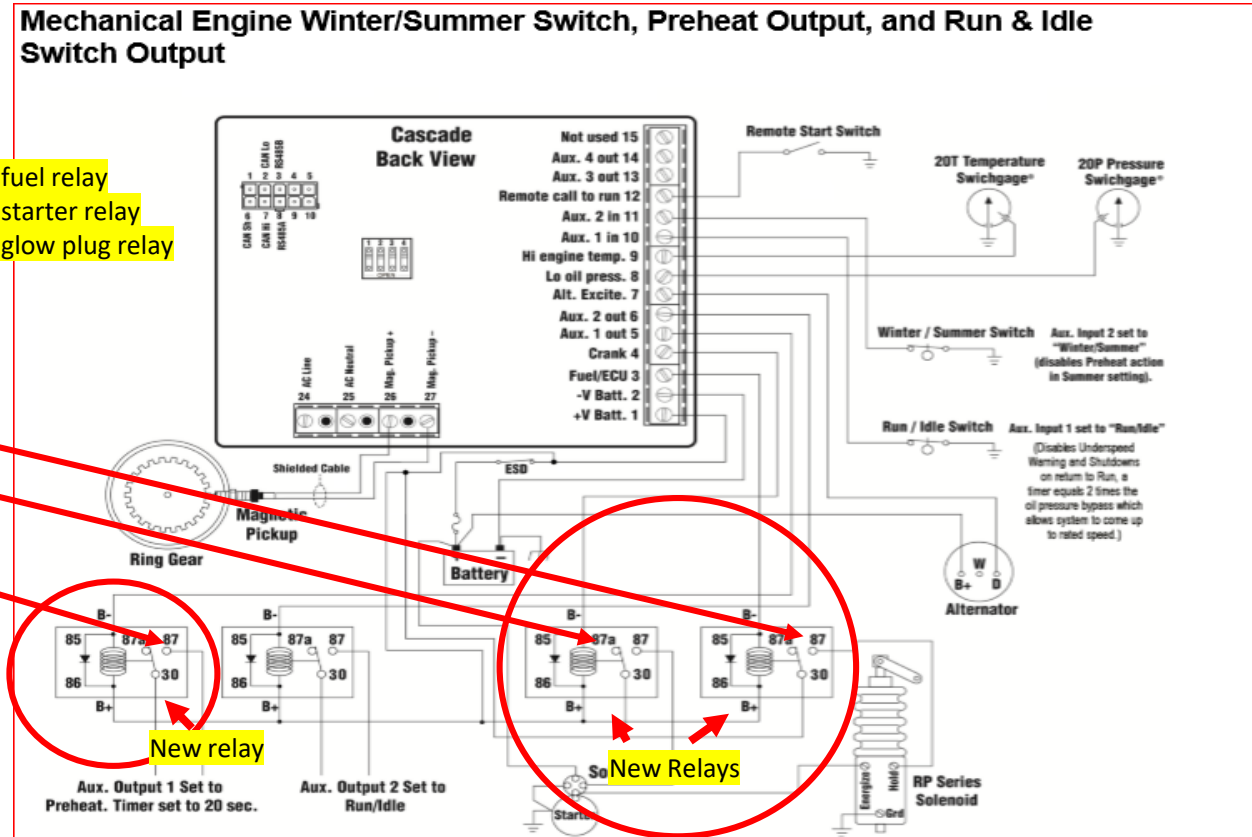
You must rewire the ASM160 starter and fuel relays as the output on the ASM160 is B+ and the output on the CD101 is B-

Replacing ASM170 with CD101

Step by step guide to aid in replacing the ASM170 with a CD101



Move wire 18 to pin 87 of the new fuel relay
 Move wire 17 to pin 87 of the new starter relay
 Move wire 15 to pin 87 of the new glow plug relay



Outputs to the Relays on the ASM170 are B+

Outputs to the Relays on the CD101 are B-

ASM170 Terminal Crossover to

CD101

Note: three relays must be added as shown in the CD101 diagram.
Add B+ connections to pins 86 and 30 of the new relays.

- 1 ~~not used~~
- 2
- 3 ~~not used~~
- 4 ~~not used~~
- 5 ~~not used~~
- 6
- 7 ~~not used~~
- 8 ~~not used~~
- 9 ~~not used~~
- 10 ~~not used~~
- 11
- 12
- 13
- 14 ~~not used~~
- 15 Move wire to 87 of New glow plug relay
- 16 ~~not used~~
- 17 Move wire to 87 of New starter relay
- 18 Move wire to pin 87 of New fuel relay

- 1 B+
- 2 B-
- 3 to pin 85 on New fuel relay
- 4 to pin 85 on New starter relay
- 5 Glow Plug
- 6 ~~not used~~
- 7 ~~not used~~
- 8 Oil Pressure switch
- 9 Coolant Temperature switch
- 10 ~~not used~~
- 11 ~~not used~~
- 12 call to run is B- (Transfer Switch)
- 13 ~~not used~~
- 14 ~~not used~~
- 15 ~~not used~~
- 24 AC speed input
- 25 AC speed input
- 26 Magnetic Pickup signal
- 27 Magnetic Pickup ground

You must rewire the ASM170 starter, glow plug and fuel relays as the output on the ASM160 is B+ and the output on the CD101 is B-