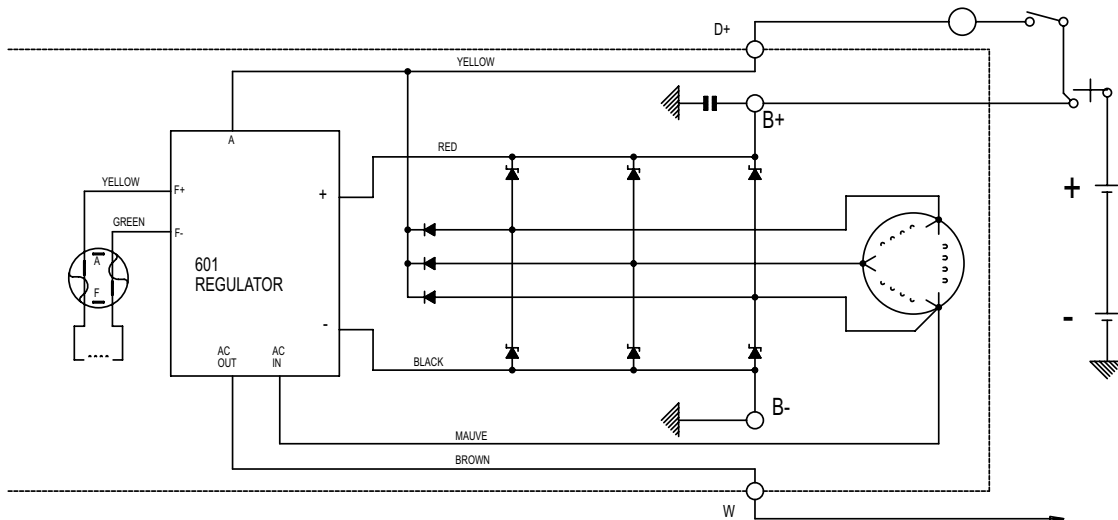


Source: Prestolite Electric Heavy Duty Systems  
 Date: 15 Feb 2005  
 Subject: 1277700 Wiring Diagram  
 Bulletin No: TSB4002  
 Models: 1277700

Technical Service  
 Bulletin

NOTES:

- 1/ MAX CONTINUOUS SPEED 8000 R.P.M.
- 2/ MIN WATTAGE OF WARNING LAMP :- 2
- 3/ REGULATOR REF. TYPE No. 601-1  
 REGULATOR HAS INTEGRAL FREQUENCY CONVERSION TO  
 MULTIPLY AC INPUT BY 4/3 (12 TO 16 POLE CONVERSION).
- 4/ AC OUT IS 28V NOMINAL SQUARE WAVE, WITH CONTROLLED  
 RISE FALL TIME, AT 3600 OHM SOURCE RESISTANCE.  
 AC OUT FREQUENCY IS SPEED (R.P.M.) X 0.133
- 5/ REGULATOR SETTING 28.0V AT 6000 R.P.M., 5A LOAD AND 25°C
- 6/ ZENER DIODES ARE FITTED FOR SURGE PROTECTION.
- 7/ BELT TENSION - THE RESULTANT LOAD ON THE PULLEY HUB AS SHOWN ON THIS  
 OUTLINE DRAWING SHOULD NOT EXCEED 1000N.
- 8/ BATTERY MASTER SWITCH MUST BE FITTED.
- 9/ ALTERNATOR AUXILIARY LOADS.  
 SHOULD THERE BE A REQUIREMENT FOR LOADS (5 AMPS MAX.) THAT ARE  
 AVAILABLE WHEN THE ALTERNATOR IS CHARGING, THEN CONNECT THESE  
 LOADS TO THE D+ TERMINAL. LOADS IN EXCESS OF 5 AMPS SHOULD BE  
 SUPPLIED FROM THE POSITIVE OUTPUT VIA A RELAY, THE COIL OF WHICH IS  
 CONNECTED TO THE D+ TERMINAL.
- 10/ THE REGULATOR HAS A TEMPERATURE COEFFICIENCY OF -9.6mV/°C NOMINAL.
- 11/ THE ALTERNATOR IS DESIGNED TO OPERATE IN AN AMBIENT TEMPERATURE RANGE  
 OF -40°C TO +100°C. FOR AMBIENT TEMPERATURES ABOVE 80°C IT IS ESSENTIAL  
 TO PIPE CLEAN DRY AIR INTO THE ALTERNATOR, THE MAXIMUM TEMPERATURE OF  
 THE AIR ENTERING THE ALTERNATOR MUST NOT EXCEED 55°C.



**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 customer service department at: