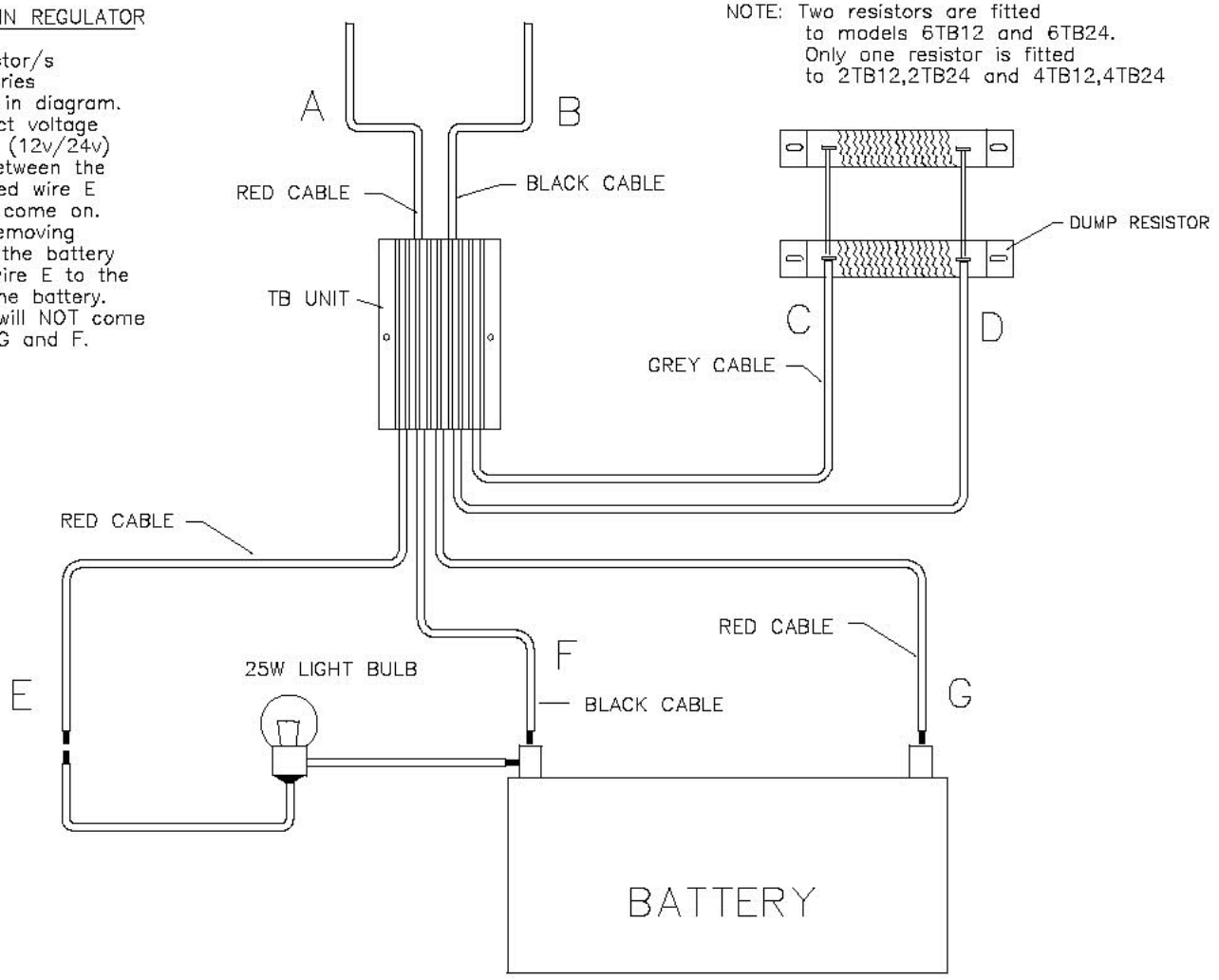
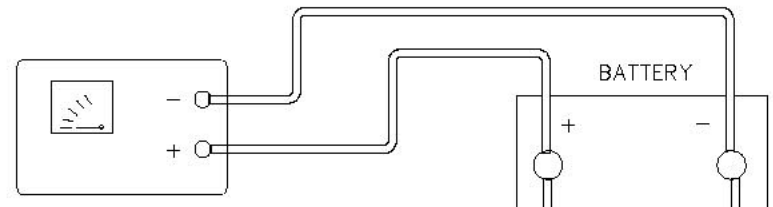
TBTEST2

TESTING DIODES WITHIN REGULATOR

Leave the dump resistor/s and one of the batteries connected, as shown in diagram. Then using the correct voltage bulb for your system (12v/24v) connect as shown, between the negative F and the red wire E the bulb should NOT come on. Repeat the test by removing the red wire G from the battery and connecting red wire E to the positive terminal of the battery. Now check the bulb will NOT come if connected betwen G and F.

NOTE: Two resistors are fitted to models 6TB12 and 6TB24. Only one resistor is fitted to 2TB12,2TB24 and 4TB12,4TB24



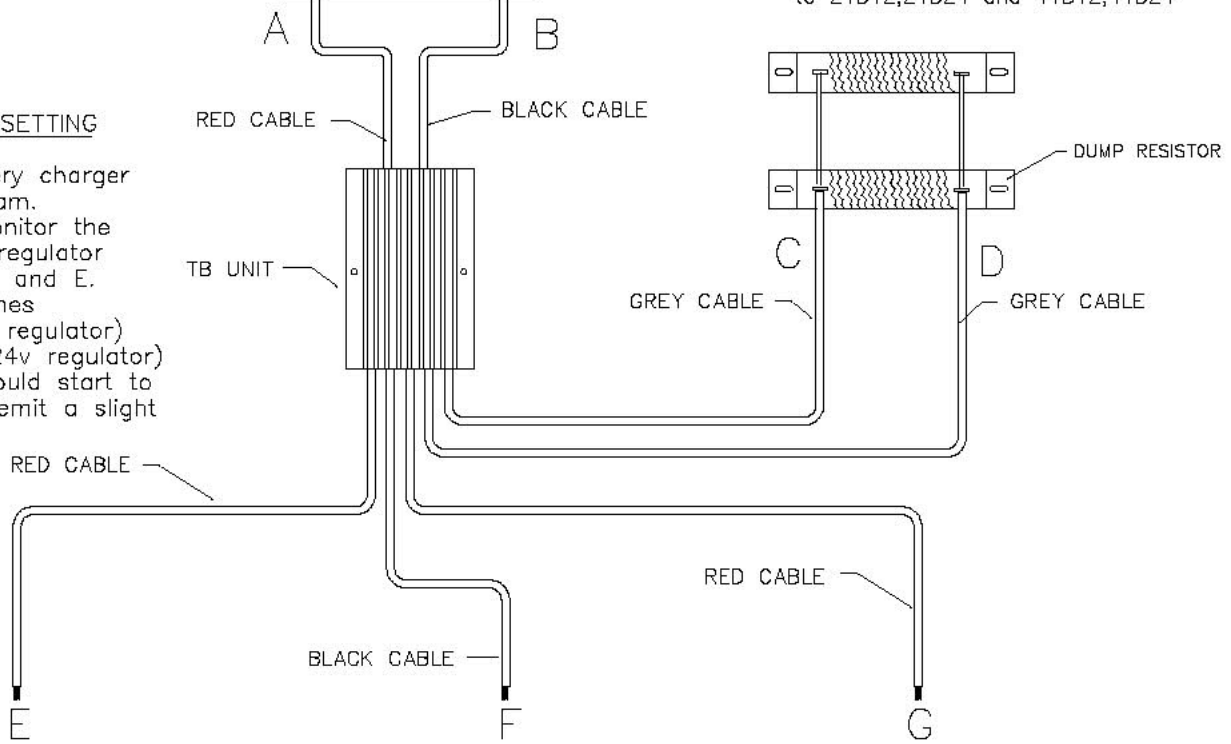


MAINS BATTERY CHARGER

NOTE: Two resistors are fitted to models 6TB12 and 6TB24. Only one resistor is fitted to 2TB12,2TB24 and 4TB12,4TB24

CHECKING REGULATOR SETTING

Connect a mains battery charger as shown in the diagram. Using a multimeter monitor the output voltage of the regulator between F and G or F and E. When the voltage reaches 14 to 14.2 volts (12v regulator) or 28 to 28.4 volts (24v regulator) the dump resistors should start to turn on and they will emit a slight buzzing sound.



TB REGULATOR TESTS

FILE TBTEST1

TESTING CONTINUITY OF REGULATOR

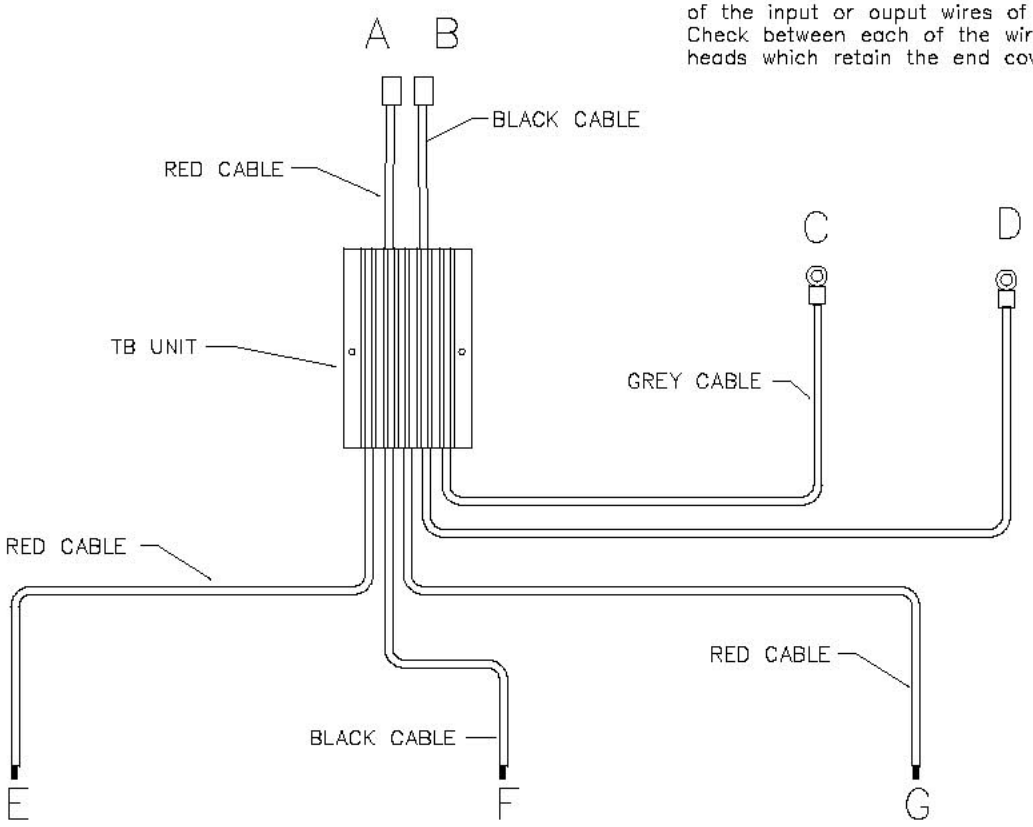
Remove all connections to the TB regulator as shown below and carry out continuity tests.

CONTINUITY/BUZZER TEST

Using a multimeter set to continuity or buzzer test, the following results should be found –

A to C = continuity, buzz
B to F = continuity, buzz

The black heatsink should have no continuity with any of the input or ouput wires of the regulator.
Check between each of the wires and one of the screw heads which retain the end covers to the heatsink.



CHECK VOLTAGE WILL PASS THROUGH REGULATOR

Leaving the dump resistor/s connected, but disconnect the generator and batteries.
Connect the input wires of the regulator to a battery –
A 12v battery to test 12v regulators and a 24v battery bank to test 24v regulators.
With the battery connected, an output voltage (battery voltage less around .5v) should be obtained between the negative output wire F and each of the red output wires E and G.
The dump resistor/s should remain cold.

NOTE: Two resistors are fitted to models 6TB12 and 6TB24.
Only one resistor is fitted to 2TB12,2TB24 and 4TB12,4TB24