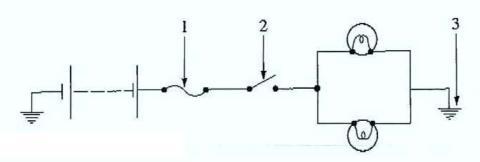
2009 HIGHER SCHOOL CERTIFICATE EXAMINATION Automotive

Section II	continued
Decmon II	commuca

(a)	Why is it recommended that the earth lead be removed first and replaced last when disconnecting or connecting an automotive battery?	1
	So the battery dosn't not explode and also to avoid electric shocks.	
(b)	What does CCA refer to in an automotive battery?	1

Question 19 continues on page 14

(c) This diagram shows some components in an electrical circuit.



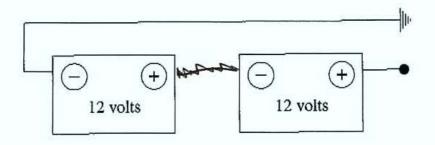
3

1

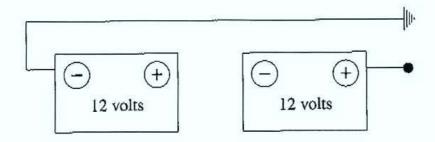
Complete the table naming and describing the function of each numbered component.

Component	Name	Function
1		
2	Switch	closes and opens the circ
3	Butt Pack	puts power into the circuit.

(d) In the diagram below, draw lines to show how to connect the terminals to increase battery output voltage to 24 volts.



(e) In the diagram below, draw lines to show how to connect the terminals to maintain battery output voltage at 12 volts.



End of Question 19