

Basic Electricity and Electronics

	Name:	Date:		
	Instructor:	Score:	Textbook pages 94-107	
	jective: After studying this chapter, you will be able to understan etronics.	d the basic principle relat	ed to automotive electricity and	
El	ectricity			
1.	is the movement of electrons from atom to atom.	1		
2.	What is an insulator?			
3.	is the flow of electrons through a conductor.			
4.	Explain the electron theory of current.			
5.	Define voltage.			
6.	is needed to control the flow of current in a circuit.			
7.	What does a simple circuit consist of?			
8.	A(n) circuit has more than one load connected in a single			
	path.			
7.	A(n) circuit has more than one electrical path.	7		

22. A(n) ____ only allows current to flow in one direction.23. A transistor acts as a(n) ____ switch or current amplifier.

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24. In your own words, how does a transistor operate?					
i are used to absorb unwanted electrical pulses in a circuit.		25			
26. Explain the difference between an integrated circuit and a pro-					
27. A(n) is designed to use a very small current to control current.	ol a very large	27			
Current.					
Automotive Wiring					
28. Define primary wire					
	Define primary wire.				
29. A(n) wire is only used in a vehicle's ignition system		29			
or coil wires.					
30. How much current does a starting motor normally draw?		30			
31 connect electrical components to the chassis or ground		31			
32 are multiwire terminals that connect several wires to		32			
33. What type of solder should be used when performing electr	33				
34. Identify the following wire terminals and connectors.					
A B C					
D F F G	. ,	the state of the s			
E 1					
		A SAAMA SAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			
H L					
M					
	(L)				

35. Explain how to use a soldering gun.	A
Basic Electrical Tests	
36. What is a <i>jumper wire</i> used for?	
37. How is a test light used?	
38. A modern inductive is clipped over the wire insula amps.	ation to measure 38
39. To prevent damage, an ohmmeter must never be connected	ed to a source of 39
40. What is another name for a multimeter?	40
41. A(n) displays voltage readings as a trace, or white l screen.	ine, on a display 41
42. How is a scanner used as a diagnostic tool in automotive	repair?

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