Name:	Date:
	Period:
47 Engine Tune-Up	ASTIPULE Chara. ENTERORISES
Objective:	
After studying this	
chapter, you will be able to	perform an engine tune-up.
driveability problem 2. Spark plug replacement for to miles.	
A B C D E	c tools used during a major tune up.
D E F	

6. What are some of the performance factors affected by a tune up.		
A		
В		
C		
D		
E		
F		
7. A modern OBD II automobile has a rough idle. Technician A says a tune-up will not correct the condition in most cases. Technician B says the rough idle is due to a defective or malfunctioning sensor, actuator, or ECM. Which technician is correct? Technician A Technician B Both Neither		
General Tune-Up Rules 8. Why is it important to gather engine and vehicle performance information before performing the tune-up?		
9. Why is it important to bring the engine up to full operating temperature prior to diagnosing an operating condition?		
10. Why is it important to maintain a vehicle's service records?		
Tune-Up Safety Rules 11. OBD II automobiles require the battery be disconnected when performing vehicle service and maintenance. Why is this important?		
12. List four (4) safety rules to follow when performing a tune-up: A		
Typical Type Up Procedures		
Typical Tune-Up Procedures		
13. List the six (6) vehicles inspections performed during any tune-up:		
A C		
B D		

	B C
15.	When replacing spark plugs in an aluminum engine, should the engine be warm or cold? Why?
16.	List the correct tools used to remove and replace spark plugs:
	What is the correct colors observed on a spark plug removed from an efficiently operating engine?
	What are two (2) steps that must be performed before installing a spark plug in arengine?
19.	Spark plugs must be installed first , before
20.	When installing spark plugs equipped with metal sealing washers the spark plug should be threaded in until it bottoms, then tightened an additional to turn.
21.	What will happen if the spark plug wires are not put on the correct cylinder's spark plug?
22.	What is the suggested replacement interval for one- and two-wire O ₂ sensors? For three wire sensors?
23.	What is the recommended procedure for replacing an O ₂ sensor?
	A test is performed during an engine's life to check the engine's mechanical condition with disassembly. List the three (3) primary adjustments performed during a tune-up:
	A B C
	sel Engine Tune-Up
	Diesel engines require periodic maintenance similar to gasoline engines, but don't have to replace or an to fail.
27.	What are the typical service tasks performed during diesel engine maintenance
	intervals: A B C D
	E F
	G H