

# MECHANIC STUDY GUIDE

## Engine Repair

### Automobile and Light Truck Repair

Listed below are a number of items and subjects which make up the mechanic certification test identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items.

#### Engine Block Diagnosis & Repair - 12%

Using a bore gauge  
Honing a newly bored cylinder  
Engine bore diagnosis  
Installing pistons in block  
Cleaning and assembling

#### Cylinder Head/Valve Train Diagnosis & Repair - 21%

Intake valve deposits  
Valve tappet clearance  
Valve timing understanding  
Valve tappet adjustment  
Valve guide wear  
Valve refacing  
Valve spring diagnosis  
Noisy lifter diagnosis  
Valve seats

#### General Engine Diagnosis - 19%

Oil consumption  
.001" cylinder leakage test  
Compression test  
Sludge in crankcase  
Vacuum testing  
Low oil pressure  
Crankcase blow-by diagnosis  
Spark plug diagnosis

#### Piston Diagnosis & Repair - 10%

Piston design  
Ring groove diagnosis  
Piston ring diagnosis

#### Crankshaft & Camshaft Diagnosis & Repair - 15%

Crankshaft end-play Journal taper diagnosis  
Installing cam bearings  
Camshaft diagnosis  
Crankshaft diagnosis

#### Miscellaneous - 23%

Understanding measurements to Engine  
Assembling procedures  
Diagnosing coolant bubbling  
Micrometer reading  
Bolt head markings  
Engine break-in  
Water pump diagnosis  
Turbocharger diagnosis  
Engine R&R procedures  
Basic carburetor diagnosis  
Vibration/misfire diagnosis  
Plastigage use

#### SAMPLE QUESTION:

A transverse mounted engine with front wheel drive must be removed from the car. All of the following are generally recommended EXCEPT:

- A. Removing the engine and transaxle as a unit.
- B. Disconnecting the speedometer cable.
- C. Disconnecting the half-shafts.
- D. Removing the differential gears.

**ANSWER: D**

# Ap Mechanics Study Guide

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web 1 the diagram is in two parts the left side is the connection for clockwise rotation the right for counterclockwise in both the capacitor is connected to the same terminals v2 and z1 presumably the left two as seen in the photo which is upside down relative to the diagram

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web aug 13 2023 to ensure that your wiring is up to the task it s important to understand the basics of single phase motor wiring diagrams understanding single phase motor diagrams single phase motors are typically rated at either 115 volts or 230 volts

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web a 6 wire single phase motor typically consists of six different wires each with its own purpose these wires include the line neutral and three additional wires that are used for different motor functions such as controlling the direction of rotation and connecting to an external capacitor

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web we will learn every single type of single phase motor schematic because single phase motors may have different schematic connection and purpose this is why learning every type we can find is a good thing single phase motor wiring diagram single phase induction motor is an ac motor that operates when supplied with a single phase power

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