

# Chapter 9

## Gasoline Engine Operation, Parts, And Specifications

Find the words in the grid. Words can go across, down and in the two forward diagonals.

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M M Q R G T L T D S I N G L E O V E R H E A D C A M S H A F T
E J T Z C Q L C W K K W L C O N N E C T I N G R O D E O N N C
C Q M H O K W L D I S P L A C E M E N T P L V X L L I L G C C
H D K M M H A N T C G G Y Q X T L T B L C T K K C T R I E W M
A F P T B R N N F R L R V J K C A M S H A F T Y A Y S V J R D
N K T K U R K R P U S H R O D E N G I N E H C R R E L D E H O
I J M M S R E G H K N M L L L D M L T D H E N L D A N W X M U
C I W X T N L N P J Y N W X M X M H X R K O V K V E O K X F B
A N D C I P E N B M J G M V N N T L V O I J C D L P T M J L L
L T Y Y O D N P B D Y T G B O R E Q R S L O A A L M R N F M E
F E R V N P G Y O M D C R W K L T T S T L E P A G L Z C R B O
O R X D C K I D X M N N Q L J N S E R B H I C R R L K V R X V
R N N H H C N R E W K R X V K R R E N R C I M K T R L N F Z E
C A C N A B E K R G M W X G U P D I E N N K D H E P K Y T H R
E L J K M U O P W T M W D O M N M V I A X M J G L M M M R T H
N C Z R B T S T L Z P J F O I A O R H C H C R K X K Q T P U E
Q O G T E T O T T M R X C L C H P C V K G A X R R Y M X I R A
K M W K R R R P V O H O Y R R I E P T G H H C K D C Y F S B D
H B L N Z D N F D A M C I Z O M N R Y C V X J R R Y K X T O C
K U L W L F R G P E L D O L J T N T R L V B J M K C P M O C A
V S H R R R R G M L A V E M G J A E A Y M K K R O L P W N H M
H T P T Q H X T C H M D E A B A P R N K C Y B L N E H Y S A S
S I T A K K J T T K T T C F D U L C Y P E R B M W V F Q T R H
T O R D N F L N L D H K F E S C S L F E T V A M G M J R R G A
R N Z K N C N M K P J Y Y Y N L E T E N N R A N H C W T O E F
O E P M N D A R P R F K L N C T M N I R Y G L L K K T W K R T
K N P N R N R K D N W G K N B T E K T O I R I X V S N Q E P B
E G H Q T P H H E F P V K L C K Z R Z E N E N N G E H R Q C K
C I M W N O N P R I N C I P A L E N D L R M S F E Y Z A C T L
P N Y F K R T N A T U R A L L Y A S P I R A T E D P Y K F G V
M E K M E X T E R N A L C O M B U S T I O N E N G I N E Y T L

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|---------------------|----------------------------|---------------------|--------------------------|
| Block               | Crankshaft                 | Mechanical force    | Rotary engine            |
| Bore                | Cycle                      | Mechanical power    | Single overhead camshaft |
| Bottom dead center  | Cylinder                   | Naturally aspirated | Stroke                   |
| Boxer               | Displacement               | Nonprincipal end    | Supercharger             |
| Cam in block design | Double overhead camshaft   | Oil galleries       | Top dead center          |
| Camshaft            | Exhaust valve              | Overhead valve      | Turbocharger             |
| Combustion          | External combustion engine | Pancake             | Wankel engine            |
| Combustion chamber  | Four stroke cycle          | Piston stroke       |                          |
| Compression ratio   | Intake valve               | Principal end       |                          |
| Connecting rod      | Internal combustion engine | Pushrod engine      |                          |