

Chapter 32 Camshafts And Valve Trains

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

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

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|------------------------|--------------------------|-------------------|--------------------------|
| Aerated | Finger follower | Lobe spread | Single overhead camshaft |
| Asymmetrical | Flat link type | Morse type | Solid valve lifter |
| Bucket | Freewheeling engine | Oil control valve | Symmetrical |
| Cam chucking | Hydraulic lash adjusters | Overhead camshaft | Thrust plate |
| Cam follower | Hydraulic valve lifter | Overhead valve | Total indicator runout |
| Cam in block | Interference engine | Pump up | Valve cam phases |
| Camshaft bearings | Lobe | Ramp | Valve float |
| Camshaft duration | Lobe centers | Roller chain type | Valve lash |
| Composite camshaft | Lobe displacement angle | Scavenging | Valve overlap |
| Double roller chain | Lobe lift | Seat duration | Variable valve timing |
| Dual overhead camshaft | Lobe separation | Silent chain type | VTEC |