

# Chapter 9 Cranking System

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

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

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|------------------------|-----------------------|--------------------|
| Armature               | Field coils           | Overrunning clutch |
| Brush end housing      | Field housing         | PMstarter          |
| Brushes                | Field poles           | Pole shoes         |
| CEMF                   | Ground brushes        | Pull in winding    |
| Commutator end housing | Hold in winding       | RVS                |
| Commutator segments    | Insulated brushes     | Starter drive      |
| Compression spring     | Mesh spring           | Starter solenoid   |
| Drive end housing      | Neutral safety switch | Through bolts      |