

Chapter 23

Gasoline Direct-Injection Systems

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

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Components	Homogeneous mode
Engine efficiency	Lower octane
Exhaust emissions	SIDI
Fuel economy	Spray guided
Fuel rail	Stratified mode
Fuel rail pressure	Swirl
Gasoline direct injection	Throttle response
Higher cost	Tumble