

TECHNICAL BULLETIN EN-37

DATE: August 22, 2008
 MODEL YEAR: 2008 ~ 2009
 ENGINE MODEL: J05D-TF/J08E-UJ
 CHASSIS MODEL: UD1400 ~ UD3300
 BULLETIN NUMBER: EN-37
 FILE IN THE ENGINE SECTION OF THE TECHNICAL BULLETIN BINDER

2008 - 2009 MODEL YEAR ENGINE TUNE UP SPECIFICATIONS

PURPOSE

To provide diesel engine tune-up specifications for the 2008 - 2009 model year engines.

SPECIFICATIONS

NOTICE: FEDERAL AND STATE CLEAN AIR LAWS PROHIBIT ENGINE ADJUSTMENTS TO THE FUEL AND INTAKE SYSTEM THAT ARE NOT WITHIN THE SPECIFICATIONS OF THE ENGINE MANUFACTURER.

ENGINE SPECIFICATION	J05D-TF	J08E-UJ
LOW IDLE, NO LOAD (RPM)	750	750
MAXIMUM RPM @ FULL LOAD	3000	2600
@ NO LOAD (RPM)	3180	2800
AIR FILTER RESTRICTION ("H ₂ O)	32	32
INTAKE MANIFOLD PRESSURE, LOADED (PSI @ RPM)	16 @ 1600 27 @ 2500	14 @ 1500 21 @ 2500
CYLINDER COMPRESSION PRESSURE (PSI @ CRANKING SPEED) MAINTENANCE STANDARD	425 ~ 455 @ 150	467 ~ 496 @ 150
SERVICE LIMIT (PSI)	341	341
MAX. DIFFERENCE BETWEEN CYLINDERS (PSI)	43 OR LESS	43 OR LESS
FUEL SUPPLY PUMP INLET RESTRICTION ("H ₂ O)	120	120
VALVE CLEARANCE, COLD (INCHES)	INTAKE: 0.012 EXHAUST: 0.018	INTAKE: 0.012 EXHAUST: 0.018
EXHAUST BACK PRESSURE, NEW SYSTEM ("Hg @ FULL RATED RPM AND LOAD)	6.46 @ 2700	6.46 @ 2500

SPECIFICATIONS (CONT.)

ENGINE SPECIFICATION	J05D-TF	J08E-UJ
SMOKE DENSITY, BOSCH METER SE-22580 (@ FULL RATED SPEED AND LOAD	0% @ 2700	0% @ 2500
CRANKCASE PRESSURE ("H ₂ O @ RPM)	1.1 @ 2700	0.16 @ 2500
ENGINE OIL PRESSURE (PSI) MAINTENANCE STANDARD, @ OPERATING TEMP. (176 °F)	71 ~ 7	71 ~ 7
SERVICE LIMIT (PSI) @ OPERATING TEMP. (176 °F)	LESS THAN 7	LESS THAN 7
STATIC INJECTION TIMING, #1 CYLINDER, COMPRESSION STROKE	0° BTDC	0° BTDC

CONVERSION FACTORS

Length:

1 millimeters (mm)
= 0.03937 inch (in)

Pressure:

1 kilopascal (kPa)
= 0.0102 kilogram/square-centimeter (kgf/cm²)
= 0.145 pound/square-inch (psi)

1 pound/square-inch (psi)
= 2.03 inches mercury ("Hg)
= 27.6 inches water ("H₂O)

Weight:

1 kilogram (kg)
= 2.205 pound (lb)

Volume:

1 liter
= 2.114 US pint (US pt)
= 1.057 US quart (US qt)
= 0.2642 US gallon (US gal)

Torque:

1 Newton-meter (N•m)
= 0.102 kilogram-meter (kgf•m)
= 0.738 feet-pound (ft•lbf)

THE INFORMATION CONTAINED IN THIS BULLETIN SHOULD NOT BE INTERPRETED AS THE BASIS FOR WARRANTY CLAIMS

FOR THE INDICATED PERSONNEL BELOW, PLEASE READ, INITIAL, AND ROUTE TO THE FOLLOWING:

X	SERVICE MANAGER	X	WARRANTY MANAGER	X	SERVICE TECHNICIANS INITIAL BELOW:		
X	PARTS MANAGER	X	SHOP FOREMAN				