NISSAN DIESEL AMERICA, INC.

TECHNICAL BULLETIN EN-31

DATE: OCTOBER 22, 2004
MODEL YEAR: 2005
ENGINE MODEL: J05D-TA/J08E-TE
CHASSIS MODEL: UD1300 ~ UD3300
BULLETIN NUMBER: EN-31
FILE IN THE ENGINE SECTION OF THE TECHNICAL BULLETIN BINDER

2005 MODEL YEAR ENGINE TUNE-UP SPECIFICATIONS

PURPOSE

To provide diesel engine tune-up specifications for the 2005 model year engines.

SPECIFICATIONS

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

ENGINE / SPECIFICATION	J05D-TA	J08E-TE
LOW IDLE, NO LOAD (RPM)	750	750
MAXIMUM RPM @ FULL LOAD @ NO LOAD (RPM)	3000 3230	2600 2900
AIR FILTER RESTRICTION ("H_20)	32	32
INTAKE MANIFOLD PRESSURE, LOADED (PSI @ RPM)	13 @ 1600 20 @ 2700	14 @ 1500 18 @ 2500
CYLINDER COMPRESSION PRESSURE (PSI @ CRANKING SPEED) MAINTENANCE STANDARD SERVICE LIMIT (PSI) MAX. DIFFERENCE BETWEEN CYLINDERS (PSI)	421 ~ 450 @ 150 341 43 OR LESS	421 ~ 450 @ 150 341 43 OR LESS
FUEL FEED PUMP INLET RESTRICTION ("H_20)	120	120
VALVE CLEARANCE, COLD (INCHES)	INTAKE: 0.012 EXHAUST: 0.018	INTAKE: 0.012 EXHAUST: 0.018
EXHAUST BACK PRESSURE, NEW MUFFLER ("Hg @ FULL RATED RPM AND LOAD)	6.46 @ 2700	6.46 @ 2500

ENGINE / SPECIFICATION	J05D-TA	J08E-TE
SMOKE DENSITY, BOSCH METER SE-22580 (@ FULL RATED SPEED AND LOAD	3% @ 2700	4% @ 2500
CRANKCASE PRESSURE ("H_20 @ 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 ("H_20)

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				