

 AIR RESOURCES BOARD	NISSAN MOTOR CO., LTD.	EXECUTIVE ORDER U-L-001-0033 New Off-Road Large Spark-Ignition Engines At & Above 25 Horsepower
--	-------------------------------	--

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following new large spark-ignition engines and emission control systems produced by the manufacturer are certified for use in off-road equipment as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE
2006	6NSXB02.548C	2.5	Dual Fuel, Gasoline or LPG
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT USAGE
3500	Multiport Fuel Injection (Gas and Dual Fuel), Throttle Body Injection (LPG), Three-Way Catalytic Converter, Heated Oxygen Sensor		Forklift
ENGINE MODELS (rated power in horsepower, hp)	See Attached Model Pages		

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust certification emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2433(b)(1)) and certification emission levels for this engine family in grams per brake horsepower-hour (g/bhp-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(2).

(g/bhp-hr)	HC+NOx	CO
Standards	3.0	37.0
Certification Levels	0.8	12.2

BE IT FURTHER RESOLVED: That for the listed engines for the aforementioned model-year, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2433(c) (certification and test procedures), 13 CCR Section 2434 (emission control labels), and 13 CCR Sections 2435 and 2436 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 30TH day of August 2005.


 Allen Lyons, Chief
 Mobile Source Operations Division

Model Year: 2006
 Manufacturer Name: NISSAN MOTOR CO., LTD
 Engine Family: 6NSXB02.548C
 OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Page: _____
 Issued: 07/14/2005
 Revised: _____
 E.O.#: U-L-001-0033

S12. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

S13. Engine Model	S14. Engine Code	S15. Sales Codes (Check ALL appropriate)			S16. Eng. Displ. (Liters)	S17. Rated Power (HP)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
		Calif. Only	49-State	50-State					
K25 N-1				V	2.488	60.2	2700	133.1	1620
K25 N-2				V	2.488	56.9	2700	136.7	1620
K25 N-3	(Gasoline)			V	2.488	60.2	2700	133.1	1620
	(LPG)			V	2.488	55.4	2700	135.3	1620
K25 M-1				V	2.488	60.2	2700	133.1	1620
K25 M-2				V	2.488	56.9	2700	136.7	1620
K25 M-3	(Gasoline)			V	2.488	60.2	2700	133.1	1620
	(LPG)			V	2.488	55.4	2700	135.3	1620
* K25 K-1				V	2.488	60.4	2900	128.0	1740
K25 K-2				V	2.488	61.5	2900	131.6	1740
K25 K-3	(Gasoline)			V	2.488	60.4	2900	128.0	1740
	(LPG)			V	2.488	58.0	2900	129.1	1740
K25 T-1				V	2.488	56.0	2800	125.1	1680
K25 T-2				V	2.488	53.4	2800	130.9	1680
K25 T-3	(Gasoline)			V	2.488	56.0	2800	125.1	1680
	(LPG)			V	2.488	53.4	2800	130.9	1680
K25 N-4				V	2.488	60.2	2700	133.1	1620
K25 N-5				V	2.488	56.9	2700	136.7	1620
K25 N-6	(Gasoline)			V	2.488	60.2	2700	133.1	1620
	(LPG)			V	2.488	55.4	2700	135.3	1620
K25 M-4				V	2.488	60.2	2700	133.1	1620
K25 M-5				V	2.488	56.9	2700	136.7	1620
K25 M-6	(Gasoline)			V	2.488	60.2	2700	133.1	1620
	(LPG)			V	2.488	55.4	2700	135.3	1620

Model Year: 2006
 Manufacturer Name: NISSAN MOTOR CO., LTD
 Engine Family: 6NSXB02.548C
 OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Page: _____
 Issued: 07/14/2005
 Revised: _____
 E.O.#: U-L-001-0033

S13. Engine Model	S14. Engine Code	S15. Sales Codes (Check ALL appropriate)			S16. Eng. Displ. (Liters)	S17. Rated Power (HP)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
		Calif. Only	49-State	50-State					
* K25 K-4				V	2.488	60.4	2900	128.0	1740
K25 K-5				V	2.488	61.5	2900	131.6	1740
K25 K-6	(Gasoline)			V	2.488	60.4	2900	128.0	1740
	(LPG)			V	2.488	58.0	2900	129.1	1740
K25 T-4				V	2.488	56.0	2800	125.1	1680
K25 T-5				V	2.488	53.4	2800	130.9	1680
K25 T-6	(Gasoline)			V	2.488	56.0	2800	125.1	1680
	(LPG)			V	2.488	53.4	2800	130.9	1680
K25 K-7				V	2.488	58.9	2700	128.0	1620
K25 K-8				V	2.488	60.0	2700	131.6	1620
K25 K-9	(Gasoline)			V	2.488	58.9	2700	128.0	1620
	(LPG)			V	2.488	56.5	2700	129.1	1620
K25 T-7				V	2.488	54.5	2800	122.2	1680
K25 T-8				V	2.488	51.9	2800	128.0	1680
K25 T-9	(Gasoline)			V	2.488	54.5	2800	122.2	1680
	(LPG)			V	2.488	51.9	2800	128.0	1680