

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-48-42
Relating to Certification of New Motor Vehicles

ROLLS-ROYCE & BENTLEY MOTOR CARS LIMITED

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

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 2000 model-year Rolls-Royce & Bentley Motor Cars Limited exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: YRRXV06.7TUR Displacement: 6.75 Liters (412 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Sequential Multiport Fuel Injection
- Heated Oxygen Sensors (two)
- Warm Up Three Way Catalytic Converter
- Three Way Catalytic Converter
- Turbocharger
- Secondary Air Injection
- Charge Air Cooler (Engine Codes A, C, D, E, & F only)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

| <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 50,000 | 0.25 | 3.4 | 0.4 | 10.0 |
| 100,000 | 0.31 | 4.2 | 0.6 | n/a |

The certification exhaust emission values for this engine family in grams per mile are:

| <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 50,000 | 0.16 | 2.2 | 0.3 | 7.6 |
| 100,000 | 0.20 | 3.2 | 0.3 | n/a |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988-2000 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235.)

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965.)

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988-2000 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995-2005 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978-2000 Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998-2000 Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed vehicle models comply with those standards.


BE IT FURTHER RESOLVED: That listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.)

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

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 9th day of December 1999.


for R. B. Summerfield, Chief
Mobile Source Operations Division



ROLLS-ROYCE MOTOR CARS
&
BENTLEY MOTOR CARS



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**2000 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES**

Manufacturer: Rolls-Royce & Bentley Motor Cars Ltd Exh Eng Fam : YRRXV06.7TUR Evap Fam : YRRXR0200E96

All Engine Codes in Engine Family: CA 49S 50S X AB965 _____, ORVR: YES X NO _____

Exh Std: CA Tier-1 X TLEV _____ LEV _____ ULEV _____ SULEV _____ US EPA Tier-1 X

Veh Class(es): PC X LDT1 _____ MDV1 _____ MDV2 _____ MDV3 _____ MDV4 _____ MDV5 _____

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Fuel Type(s): Dedicated X Flex-Fuel _____ Dual-Fuel _____ Bi-Fuel _____ Gasoline X Diesel _____
CNG _____ LNG _____ LPG _____ M85 _____ Other (specify) _____

Exh Emiss Test Fuel(s): Indo X CBG _____ CNG _____ LPG _____ M85 _____ Other (specify) _____
Diesel: 13 CCR 2282

Evaporative Emission Test Procedure: California _____ Federal X

Service Accum: Std AMA _____ Mod AMA _____ Mfr ADP _____ Other (specify) ADF ✓

NMOG Test Procedure: N/A N/A Std _____ Equip _____ R/L Test Proc: SHED _____ Pt Source X

Hybrid: Type A _____ B _____ C _____, APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Configuration: V-8 Displacement: 6.75 / _____ Liters 412.0 / _____ Cubic Inches

Valves per Cylinder: 2 Rated HP 386 @ 4000 rpm (Code A) 420 @ 4000 rpm (Code D)
300 @ 4000 rpm (Code B) 325 @ 4000 rpm (Code E)
400 @ 4150 rpm (Code C) 400 @ 4000 rpm (Code F)

Engine: Front X Mid _____ Rear _____ Drive: FWD _____ RWD X 4WD-FT _____ 4WD-PT _____

Exhaust ECS (e.g., MFI, EGR, TC, CAC): SFI, WUTWC+TWC, HO2S(2), AIR, TC, CAC (Codes A,C,D,E & F)
(abbreviations as per SAE J1930 June 93) SFI, WUTWC+TWC, HO2S(2), AIR, TC (Code B)

| Engine Code (Also list CA/49ST/50ST) | Vehicle Models | Trans. (M5,A4 etc) | ETW or Test Wt. | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic Converter Part No. |
|--|---|--------------------------|-----------------------|-------------------|---------------------------------------|---------------------------|------------------------------------|
| A/50ST | Bentley Azure | L4 | 6050 | 19.9 | UV 31651 | N/A | WU-TWC UE 79281 |
| C/50ST | Bentley Azure Continental R Continental SC | | 6050 | 19.9 | | | |
| | | | 5700 | 18.9 | | | |
| | | | 6050 | 19.9 | | | |
| D/50ST | Bentley Continental SC Continental T | | 6050 | 19.9 | | | |
| E/50ST | Rolls-Royce Corniche | | 6050 | 19.9 | | | |
| | | 6330 | 18.1 | | | | |
| F/50ST | Bentley Arnage | 5860 | 19.3 | PB 55343 | WU-TWC PJ 55232 TWC PJ 55312 | | |