

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-220-37
Relating to Certification of New Motor Vehicles

JAGUAR CARS, LTD.

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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1994 model-year Jaguar Cars, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: RJC6.0V7GCFK Displacement: 6.0 Liters (366 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Secondary Air Injection
Dual Three-Way Catalytic Converters (Three)
Dual Heated Oxygen Sensors
Multiport Fuel Injection

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>
50,000	0.25	3.4	0.4
100,000	0.31	4.2	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>
50,000	0.17	1.8	0.2
100,000	0.21	2.6	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 non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That on January 14, 1993, the Air Resources Board adopted the repeal of the currently-effective requirement that each manufacturer certify a minimum of 80 percent of its projected sales of 1994 model-year California-certified passenger cars and light-duty trucks to the phase-in standards for NMHC, or the more stringent standards in section 1960.1(g)(2) of Title 13, California Code of Regulations. If the repeal of such requirement does not become effective, the manufacturer shall submit a plan for compliance with the requirement; passenger cars and light-duty trucks not meeting such phase-in or more stringent standards shall be certified only to the extent allowed under the requirement.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles".

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 2290).

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 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control 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 "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) 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 17th day of February, 1993.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

17.00.00.00 cont'd

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.06.00.00 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd

Engine Family: RJC6.0V7GCFK

Passenger Car: X (PC)

Stds Type: Tier 1

Fuel Type: Gasoline

Evaporative Family: RJC1107AYM00

Engine Configuration: V12 Liter (CID): 6.0 (366)

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: AIR:2TWC(3):2HO2S:MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
6.0SFC-94	XJ12	A (L4)	4750	8.6	DBC 11581 (DBC 12473)	N/A	D/pipe- LCA U/floor- LDA

17.00.00.00 cont'd

E.O. # A-220-37 Page 2 of 2.06.01.02 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEETManufacturer: Jaguar Cars LtdEngine Family: RJC6.0V7GCFKPassenger Car: X (PC)Stds Type: Tier 1Fuel Type: GasolineEvaporative Family: RJC1091AYM00Engine Configuration: V12 Liter (CID): 6.0 (366)Engine: Front X Mid _ Rear _Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _Exhaust ECS & Special Features: AIR:2HO2S:2TWC(2):TWC:MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
6.0SFC-94S	XJS*						
	Coupe	A	4250	8.0	DBC 11326 (DBC 12473)	N/A	D/P: MCA U/F: MDA
	Convertible	A	4500	8.0	DBC 11326 (DBC 12473)	N/A	D/P: MCA U/F: MDA

New evaporative codes, 87-94/1 & 97-94/1, established by introduction of Running Change #6.0-94/2.

17.00.00.00 cont'd

E.O. # A-220-37 Page 1 of 1.06.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEETManufacturer: Jaguar Cars LtdEngine Family: RJC6.0V7GCFKPassenger Car: X (PC)Stds Type: Tier 1Fuel Type: GasolineEvaporative Family: RJC1107AYM00Engine Configuration: V12 Liter (CID): 6.0 (366)Engine: Front X Mid _ Rear _Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _Exhaust ECS & Special Features: AIR:2HO2S:2TWC(3):MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
6.0SFC-94	XJ12	A	4750	8.6	DBC 11581 (DBC 12473)	N/A	D/pipe- LCA U/floor- LDB*

* New underfloor catalytic converter/silencer assembly, i/d # LDB, introduced by Running Change #6.0-94/4 to replace assembly, i/d # LDA. This change concerns modifications to the intermediate underfloor silencer to improve clearances between the outlet pipes and surrounding components.

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E.O. # A-220-37 Page 1 of 1.06.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEETManufacturer: Jaguar Cars LtdEngine Family: RJC6.0V7GCFKPassenger Car: X (PC)Stds Type: Tier 1Fuel Type: GasolineEvaporative Family: RJC1107AYM00Engine Configuration: V12 Liter (CID): 6.0 (366)Engine: Front X Mid _ Rear _Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _Exhaust ECS & Special Features: AIR:2HO2S:2TWC(3):MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
6.0SFC -94/1	XJ12	A	4750	8.6	DBC 12518* N/A (DBC 12473)		D/pipe- LCA U/floor- LDB

* New ECM calibration introduced by Running Change #6.0-94/6. Part number DBC 12512 replaces DBC 11581. New engine code, 6.0SFC-94/1, created by this change.

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.06.01.02 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd

Engine Family: RJC6.0V7GCFK

Passenger Car: X (PC)

Stds Type: Tier 1

Fuel Type: Gasoline

Evaporative Family: RJC1091AYM00

Engine Configuration: V12 Liter (CID): 6.0 (366)

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: AIR:2HO2S:2TWC(2):TWC:MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
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6.0SFC-94S	XJS						
	Coupe	A	4250	7.3*	DAC 11326 (DBC 12473)	N/A	D/P: MCA U/F: MDA
	Convertible	A	4500	7.3*	DAC 11326 (DBC 12473)	N/A	D/P: MCA U/F: MDA

*New wheel/tyre assembly, size 225/60ZR16, introduced by Running Change #6.0-94/5.

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.06.01.02 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd

Engine Family: RJC6.0V7GCFK

Passenger Car: X (PC)

Stds Type: Tier 1

Fuel Type: Gasoline

Evaporative Family: RJC1091AYM00

Engine Configuration: V12 Liter (CID): 6.0 (366)

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: AIR:2HO2S:2TWC(2):TWC:MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
6.0SFC	XJS						
-94S/1	Coupe	A	4250	7.3	DAC 11498* (DBC 12473)	N/A	D/P: MCA U/F: MDA
	Convertible	A	4500	7.3	DBC 11498* (DBC 12473)	N/A	D/P: MCA U/F: MDA

* New ECM calibration introduced by Running Change #6.0-94/6. Part number DAC 11498 replces DAC 11326. New engine code, 6.0SFC-94S/1, created by this change.

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.06.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd

Engine Family: RJC6.0V7GCFK

Passenger Car: X (PC)

Stds Type: Tier 1

Fuel Type: Gasoline

Evaporative Family: RJC1107AYM00

Engine Configuration: V12 Liter (CID): 6.0 (366)

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: AIR:2HO2S:2TWC(3):MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
5.0SFC -94/1	XJ12	A	4750	8.6	DBC 12515* (DBC 12473)	N/A	D/pipe- LCA U/floor- LDB

* New evaporative canister purge calibration introduced by Running Change #6.0-94/10. Part number DBC 12515 replaces DBC 12518. New evaporative code, 81-94/2, created by this change.

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1.06.01.02 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd

Engine Family: RJC6.0V7GCFK

Passenger Car: X (PC)

Stds Type: Tier 1

Fuel Type: Gasoline

Evaporative Family: RJC1091AYM00

Engine Configuration: V12 Liter (CID): 6.0 (366)

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: AIR:2HO2S:2TWC(2):TWC:MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
6.0SFC	XCS						
	94S.1 Coupe	A	4250	7.3	DAC 11519* (DBC 12473)	N/A	D/P: MCA U/F: MDA
	Convertible	A	4500	7.3	DBC 11519* (DBC 12473)	N/A	D/P: MCA U/F: MDA

* New evaporative canister purge calibration introduced by Running Change #6.0-94/10. Part number DBC 11519 replaces DBC 11498. New evaporative codes, 37-94/2 & 97-94/2, created by this change.

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.06.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd

Engine Family: RJC6.0V7GCFK

Passenger Car: X (PC)

Stds Type: Tier 1

Fuel Type: Gasoline

Evaporative Family: RJC1107AYM00

Engine Configuration: V12 Liter (CID): 6.0 (366)

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: AIR:2HO2S:2TWC(3):MFI

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No.	EGR System Part No.	Catalyst Part No.
6.0SFC -94/1	XJ12	A	4750	8.6	DBC 12515* (DBC 12473)	N/A	D/pipe- LCA U/floor- LDB

* New evaporative canister purge calibration introduced by Running Change #6.0-94/10. Part number DBC 12515 replaces DBC 12512. New evaporative code, 81-94/2, created by this change.