State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-282-5
Relating to Certification of New Modifier Certified Motor Vehicles

K & E INTERNATIONAL AUTO CONSULTANTS

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 K & E International Auto Consultants emission control systems are certified in California as described below for gasoline-powered pasenger cars which are designated as 1986 model-year vehicles by the regulations:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
GK13.0V6FC52	183	(3.0)	Warm-Up Three-Way Catalyst Three-Way Catalyst Heated Oxygen Sensor (Mechanical Port Fuel Injection)

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

The following are the emission standards for this engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0.41	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.35	4.9	0.2

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of service facilities in each of the seven major urban areas in California;

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of a one thousand dollar ($1,000.00) recall time deposit account payable to the Air Pollution Control Fund or a prepaid insurance policy for the duration of the recall period for each vehicle produced which will provide for the execution of an ordered recall pursuant to Title 13, California Administrative Code Sections 2111, 2112 and 2113.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the prepaid warranty insurance policy to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq. and Health and Safety Code Section 43204).

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

The Bureau of Automotive Repair and the Department of Motor Vehicles will be notified by copy of this order and attachment.

Executed at El Monte, California this 21st day of September, 1987.

K. D. Drachand, Chief
Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer K & E INTERNATIONAL Executive Order No. A-282-5

Engine Family GK13.0V6FC52/86 Evaporative Family GK1V6/86

Engine CID (Liters) 183 (3.0)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TR-Thermal Reactor
TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection Direct
DIP-Diesel Injection Prechamber
EFI-Electronic Fuel Injection
MFI-Mechanical Fuel Injection
TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

VEHICLE MODELS: 300 E, 300SE, 300TE, 300SL

DRIVE SYSTEM: Front Engine/ Rear -Wheel Drive

E.O. #A -282-5

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☒ Passenger Cars ☐ Light-Duty Trucks ☐ Medium-Duty Vehicles ☒ Gas. ☐ Diesel

Manufacturer K & E INTERNATIONAL Page 2

Engine Family GK13.0V6FC52/86 Engine Code M103

ECS (Special Features) CL,TWC (MFI) CID (Liter) Type 183 (3.0) L-6

Engine Code	Vehicle Models (If Coded see attachment)	Trans	Equiv. Test Wt. Lbs.	Ign. System VA Part No.	Fuel System MFI Part No.	EGR Valve Part No.	Label Ident. Part No.
M103	300 E 300 TE	A4, M5	3625	103 158 0002	Fuel Distributor 0 438 101012 Air Sensor: 0 258 003025	DNA	Tune-up 124584472I Vac. Line Diagr.: 124584452I
M103	300SE	A4 M5	3875	103 158 0002	Fuel Distributor 0 438 101112 Air Sensor: 0 258 003025	DNA	Tune-up 126584472I Vac. Line Diagr.: 126584452I
M103	300 SL	A4,M5	3626	103 158 0002	Fuel Distributor 0 438 101012 Air Sensor 0 258 003025	DNA	Tune-up 107584472I Vac. Line Diagr.: 107584452I

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue —

E.O. # A-282-5

1986 MODEL-YEAR CERTIFICATION REVIEW SHEET
EXHAUST/EVAPORATIVE SYSTEM & FILL PIPE SPECIFICATION COMPLIANCE

Mfgr. K & E INTERNATIONAL INC. Engine Family GK13.0V6FC52

PC X LDT ___ MDV ___ Gas X Diesel ___ LPG ___ Cert. Type - CA ___ 49S ___ 50S X

CID 183 Liters 3.0 Rated HP 132 KW (177) @ 5700 RPM Rated Torque 225Nm (166) @ 4400 RPM

Type Cert - 50K X 100K ___ Evaporative Family GK13.0VE Eng. Type L-6

Exhaust Control Sys. and (Special Features) CL, TWC (MFI)

	Section/Page		Section/Page
1 Authorized Representative	Sect. 1:1,2	9 Exhaust Control System	Sect. 8:25-49
2 Fuel, Test Equipment Procedures & Route	Sect.3,4,5:1	10 Projected Sales	Sect.17:15
		11 Vehicle Descript.	Sect.10:24-26
3 Warr. State & Parts List	Sect.17:4-7.10	12 Test Veh. Information	Dur. / Emis.
4 Maint: Cert/Req'd/Recm'd	Sect.6:1,2,5,6	C/O MY or C/A EF	New 86 / New 86
5 Tune-Up Lab./Vac. Hose Diag.	Sect.7:3	Zero Mile Books	
6 Evap. Control System	Sect.8:83-92,Sec.9:1-4	Vehicle Logs	Sect.12:1-4
7 Engine Parameters	Sect.10:1-17	Maint. Logs & Engr. Eval.	
8 Fuel/Ignition Systems	Sect.8:1-24,50,51	13 Evap. Bench Test Procedure	Sect.17:32-42

STATEMENTS:

1 Gen. Std., Increase in Em., Safety, Mtg. All Req'ments.	Sect.16:2	1 Fill Pipe Specs.	Sect. 17:48-52
2 Prod. Veh. Same as Test Veh.	Sect.17:43	2 Altitude A/F Req'ment	Sect. 8:28
3 Label Durability	Sect.17:45	3 Carb. Tamperproof Req'ment	DNA(MFI)
Driveability	Sect.17:46	4 Ck for DF, Outlier, Line Xing	Sect.12:5.,6
5 Fill Pipe Access Zone	Sect.17:47	5 EPA Certificate	inc. in Sect. 17
6 Fill Pipe Performance	Sect. 17:47	6 Two yr./24K Warranty	DNA
		7 Alcohol Compatible	Owners Manual
		8 Cert. Preview Program	MY 87

PROJECTED EMISSIONS(1) (2)

Veh. ID	Code (Displ)	Trans	Axle Ratio	ETW	RLHP	MPG City/Hwy	Test Loc.	HC	CO	NOx	Hwy NOx	50K Evap	50K Part
W107	3.0 Ltr.	A4	3.46	3750	7.5	C:20	CARB	0:35	4.9	0:2			

(1) The emission data vehicle/s above comply with standards of 0:41 7.0 0.7 0.93 2.0

and includes deterioration factors of 1.2 12 1.1 1.1 .05

Evaporative DF is the average of Vehicle DF Assigned and Bench DF Assigned

(2) Trap Oxidizer: Yes ___ No X Continual ___ Periodic ___

Remarks Carryback of 1987 data to 1986 MY vehicles. ECS identical i.e. same specs. & ECS part Nos. (HK13.0V6FC58)

Application Processed by [illegible] Date 9/1/87 Reviewed by R J Kenny Date 9/2/7

030186