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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-28
Relating to Approval of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 39150 and 39151 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Section 39023 of the Health and Safety Code;

IT IS ORDERED AND RESOLVED: That Ford Motor Company exhaust emission control systems for 1974 model year light-duty motor vehicles are approved for the engine families described below:

Engine Family: 351C-2V (White)
Engine: 351 CID
Exhaust Emission Control System: Exhaust Gas Recirculation
Models:

Ford (A/T-3)

Custom 500, Galaxie 500, LTD, LTD Brougham

Torino (A/T-3)

Torino Station Wagon, Gran Torino Station Wagon,
Torino Squire Station Wagon

Section 39152, Part I, Division 26 of the California Health and Safety Code requires that a decal be affixed to the side window which discloses the highest emissions from the certification fleet for that vehicle for which approval has been granted by the Board.

The following are the recommended values to be listed on the decal:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxie Grams per Mile	Nitrogen Oxides Grams per Mile
351C-2V (White)	3.0	39	1.8

According to the California Assembly-Line Test Procedure for 1974 Model Light-Duty Gasoline Powered Vehicles, these values shall be in effect during the first calendar quarter of model production and not to exceed 30 days thereafter. Not more than one month after the first and each succeeding calendar quarter of production, the exhaust emissions shown on the window decal shall be the average quality audit values for the engine family of the previous calendar quarter of production.

Section B3 of the above procedure requires the manufacturer to submit to the Executive Officer before the start of the model-year, a list of the engine components and control systems affecting emissions to be functionally checked and the procedure for performing these checks.

In accordance with Section III E. of the California Exhaust Emission Standards and Test Procedures for 1973 through 1976 Models Gasoline-Powered Light-Duty Motor Vehicles, the manufacturer is required to inform the Air Resources Board of any production changes which will affect emissions.

Supplemental information sheets are attached to this order which include tune-up specifications and emission control system data.

The Department of Motor Vehicles, the California Highway Patrol and the Bureau of Automotive Repair of the Department of Consumer Affairs will be notified of this approval by copy of this order and attachment.

Executed at Sacramento, California, this 12 day of December, 1973.

JOHN A. MAGA
Executive Officer

ATTACHMENT TO EXECUTIVE ORDER A-10-28

CALIBRATION DESCRIPTION

50 STATES

ENGINE FAMILY: 351C-2V CALIB. #: 4-14N, R52

TRANS: A/T

APPLICATIONS: Ford (3.07 axle, FMX transmission) 5000# IW
Torino S.W. (3.00 axle, C4 transmission) 5000# IW

CARBURETOR: D4OE-9510-FA DISTRIBUTOR: D4AE-12127-AA

TIMING: 14° BTDC RPM: 500 GEAR: Neutral

IDLE RPM (WO/AC): 650 GEAR: Drive

IDLE RPM (W/AC): 650 GEAR: Drive

DISTRIBUTOR PT. DWELL: Not Applicable - Breakerless

SPARK PLUG GAP: .042-.046 TYPE: ARF-42

CHOKE TYPE: Automatic SETTING: 3 NR RECOMM. IDLE CO: .43 max. Therm. Disconn.

RATED HP: TBD NOMINAL C.R.: 8.0:1

EMISSION CONTROL DEVICE APPLICATION:

DEVICE	CALIBRATION
Air Cleaner Bi-Metal Sensor	With 16 in. Hg input vacuum and 105°F temperature applied to the sensor the output vacuum must be between 5 and 8 in. Hg.
Air Cleaner Vacuum Delay Valve	375 ± 75 seconds required for vacuum to drop in a 22.75 cu. in. vacuum tank from 16 in. Hg to 8 in. Hg.
EGR Valve - Modulating Flow Type Valve	With the same vacuum applied simultaneously to the valve chamber and the operating diaphragm, the valve starts to open at approximately 3.6 in. Hg, attains a flow of 13.3 CFM at approximately 9 in. Hg and reduces the flow to 3.6 CFM at 12 in Hg.
Exhaust Gas Recirculation Vacuum Control Valve (EGR PVS)	Two-port PVS: Starts to open 92 to 98°F. Full open 105°F max.
Convac System	Used in conjunction with EGR vacuum control valve (EGR PVS).

ENGINE FAMILY 351C-2V CALIB. #4-14N, R52
TRANS: A/T

* Distributor Vacuum Control Valve (Cooling PVS)	Starts to open 222 to 228°F. Full open 235°F max.
Hot Air Heated, Electrically Assisted Choke	Thermostatic coil deflection: 1.17 to 1.23 angular degrees per °F.
Positive Crankcase Ventilation (PCV) Valve	

Flow Check Points

	Vacuum (in. Hg)	CFM Max.	CFM Min.
1.	3	4.65	3.35
2.	5	3.15	2.35
3.	10	2.90	2.40

Spark Delay Valve #20	200 ± 40 seconds required for vacuum to drop in a 22.75 cu. in. vacuum tank from 16.0 in. Hg to 8.0 in. Hg.

*Not on Ford