

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-657
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

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 Ford Motor Company 1996 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TFM3.028G1FK Displacement: 3.0 Liters (183 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Three Way Catalytic Converters (two)
- Dual Heated Oxygen Sensors
- Heated Oxygen Sensor
- Exhaust Gas Recirculation
- Sequential 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>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

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

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.14	1.0	0.2	4.5
	100,000	0.17	1.0	0.23	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 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 vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "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 2235).

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).

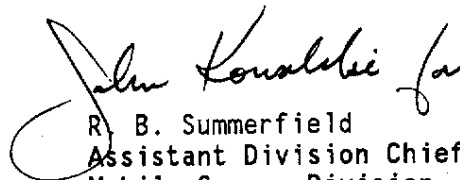
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned 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 1st day of August 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 MODEL YEAR SUPPLEMENTAL DATA SHEET
 EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM3.028G1FK
 Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: TFM1045AYPBA
 Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___
 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use X Alt In Use___
 Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specify)
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config V-6 Displacement: 3.0L (183) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 140 @ 5000 RPM
 Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X
 Exhaust Control System and Special Features TWO(2)SFI, 2HO2S, EGR, HO2S
 (Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
556SR15A/N	Ranger/Mazda 4x2 <i>B3000</i>	A4			F57F-CJA	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	SC SWB		3750	11.2			
	SC SWB		3750	12.3*			
556RR15A/N	Ranger/Mazda 4x4	A4			F57F-CLA	"	"
	RC LWB		3875	12.0			
	RC SWB		3875	12.0			
	RC LWB		3875	13.2*			
	RC SWB		3875	13.2*			
	SC SWB		4000	12.0			
	SC SWB (Mazda only)		4000	13.2*			
	SC SWB (Ranger only)		4250	13.2*			

* with air conditioning

1996 MODEL YEAR SUPPLEMENTAL DATA SHEET
 EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM3_028G1FK
 Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: TFM1045AYPBA
 Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___
 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use___ Alt In Use___
 Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specify)___
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config V-6 Displacement: 3.0L (183) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 140 @ 5000 RPM
 Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X
 Exhaust Control System and Special Features TWC(2),SFI,2HO2S, EGR, H025
 (Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
556SR15A/N	Ranger/Mazda 4x2	A4			F57F-CJA	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	SC SWB		3750	11.2			
	SC SWB		3750	12.3*			
556RR15A/N	Ranger/Mazda 4x4	A4			F57F-CLA	"	"
	RC LWB		3875	12.0			
	RC SWB (Ranger only)		3750	12.0			
	RC SWB (Mazda only)		3875	12.0			
	RC LWB		3875	13.2*			
	RC SWB		3875	13.2*			
	SC SWB		4000	12.0			
	SC SWB		4000	13.2*			

* with air conditioning

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1996 MODEL YEAR SUPPLEMENTAL DATA SHEET
 EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY

Exhaust Engine Family: TFM3.028G1FK

Engine Code Types: CA X 49S 50S

Evaporative Emissions Family: TFM1045AYPBA

Exh Std: Tier-0 Tier-1 X TLEV LEV ULEV ZEV EPA TIER-0 TIER-1

Evap Std: 50K X Useful Life with R/L In-Use Exh Std: Full In Use Alt In Use

Veh Class(es): PC LDT1 LDT2 X MDV1 MDV2 MDV3 MDV4 MDV5

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

Exh Cert Fuel(s): Indo X Ph2 Diesel: 13 CCR 2282 or 40CFR 86.113-90 or -94
 M85 CNG LPG Other (specify)

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

Hybrid: Type A B C , APU Cycle (eg..., Otto, Diesel, Turbine)

Engine Config V-6 Displacement: 3.0L (183) Liters (Cubic Inches)

Valves/Cyl: 2 Rated HP: 140 @ 5000 RPM

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

Exhaust Control System and Special Features TWC², SFI, zHO2S, EGR, HO2^s

(Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
555SR15A/N	Ranger/Mazda 4x2	M5			F57F-CHA	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	SC SWB		3750	12.3*			
555RR15A/N	Ranger/Mazda 4x4	M5			F57F-CGA	"	"
	RC LWB		3750	12.0			
	RC SWB		3750	12.0			
	RC LWB		3875	13.2*			
	RC SWB (Mazda only)		3875	13.2*			
	RC SWB (Ranger only)		3750	13.2*			
	SC SWB		4000	12.0			
	SC SWB		4000	13.2*			

* with air conditioning

ENGINE FAMILY: TFM3.028G1FK
 ISSUED: 7-25-96
 REVISED:

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1996 MODEL YEAR SUPPLEMENTAL DATA SHEET
 EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM3.028G1FK
 Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: TFM1045AYPBA
 Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___
 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use___ Alt In Use___
 Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specify)___
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config V-6 Displacement: 3.0L (183) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 140 @ 5000 RPM
 Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X
 Exhaust Control System and Special Features TWC(S), SFI, 2HO2S, EGR, HO2S
 (Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
656SR10A/N	Ranger/Mazda 4x2	A4			F57F-CJB	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	SC SWB		3750	11.2			
	SC SWB		3750	12.3*			
656RR10A/N	Ranger/Mazda 4x4	A4			F57F-CLB	"	"
	RC LWB		3875	12.0			
	RC SWB (Ranger only)		3750	12.0			
	RC SWB (Mazda only)		3875	12.0			
	RC LWB		3875	13.2*			
	RC SWB		3875	13.2*			
	SC SWB		4000	12.0			
	SC SWB		4000	13.2*			

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 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM3.028G1FK
 Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: TFM1045AYPBA
 Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___
 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use___ Alt In Use___
 Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specify)
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other
 (specify)_____
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)_____
 Engine Config V-6 Displacement: 3.0L (183) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 140 @ 5000 RPM
 Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X
 Exhaust Control System and Special Features TWC(2), SFI, 2HO2S, EGR, HO2S

(Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
655SR10A/N	Ranger/Mazda 4x2	M5			F57F-CHB	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	SC SWB		3750	12.3*			
655RR10A/N	Ranger/Mazda 4x4	M5			F57F-CGB	"	"
	RC LWB		3750	12.0			
	RC SWB		3750	12.0			
	RC LWB		3875	13.2*			
	RC SWB (Mazda only)		3875	13.2*			
	RC SWB (Ranger only)		3750	13.2*			
	SC SWB		4000	12.0			
	SC SWB		4000	13.2*			

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 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM3.028G1FK
 Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: TFM1045AYPBA
 Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___
 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use___ Alt In Use___
 Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specicy)___
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config V-6 Displacement: 3.0L (183) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 140 @ 5000 RPM
 Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X
 Exhaust Control System and Special Features TWC(2) SFI 2 HO2S, EGR, HO2S
 (Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
. 656SR11A/N	Ranger/Mazda 4x2	A4			F57F-CJC	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	SC SWB		3750	11.2			
	SC SWB		3750	12.3*			
656RR11A/N	Ranger/Mazda 4x4	A4			F57F-CLC	"	"
	RC LWB		3875	12.0			
	RC SWB (Mazda only)		3875	12.0			
	RC SWB (Ranger only)		3750	12.0			
	RC LWB		3875	13.2*			
	RC SWB		3875	13.2*			
	SC SWB		4000	12.0			
	SC SWB		4000	13.2*			

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 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM3.028G1FK
 Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: TFM1045AYPBA
 Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___
 Evap Std: 50K X Useful Life with R/L___ In-Use Exh Std: Full In Use___ Alt In Use___
 Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)
 Exh Cert Fuel(s): Indo X Ph2___ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___
 M85___ CNG___ LPG___ Other (specify)___
 Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
 Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___
 Hybrid: Type A___ B___ C___, APU Cycle (eg., Otto, Diesel, Turbine)___
 Engine Config V-6 Displacement: 3.0L (183) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 140 @ 5000 RPM
 Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X
 Exhaust Control System and Special Features TWC(2), SFI, 2HO2S, EGR, HO2S
 (Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
655SR11A/N	Ranger/Mazda 4x2	M5			F57F-CHC	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	SC SWB		3750	12.3*			
655RR11A/N	Ranger/Mazda 4x4	M5			F57F-CGC	"	"
	RC LWB		3750	12.0			
	RC SWB		3750	12.0			
	RC LWB		3875	13.2*			
	RC SWB (Mazda only)		3875	13.2*			
	RC SWB (Ranger only)		3750	13.2*			
	SC SWB		4000	12.0			
	SC SWB		4000	13.2*			

* with air conditioning

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