

FEDERAL  
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BULLETIN # 24 - "Vehicle Maintenance Guidelines"

This bulletin supplements previously issued material, especially TIB #2b. Where TIB #2b is written for auto drivers, this bulletin is written for service stations, garages and others involved in maintaining passenger vehicles and light trucks. It reflects available recommendations from manufacturers of automobiles and parts. Guidelines for use in dealership garages have been distributed by major manufacturers. In general, these recommend increased frequency of all normal maintenance procedures for U. S. and foreign cars. The General Motors message to drivers, published in major newspapers in the ashfall area June 6, 1980, is consistent with the guidelines.

Note: The following portions of this bulletin are being reproduced on card stock and will be distributed free of charge by FEMA to the automotive trade in the ashfall area.

MAINTENANCE GUIDELINES FOR USE IN AREAS WITH VOLCANIC ASH

General - Use air (maximum 30 psi) to blow dust from open electrical equipment, such as the alternator, starter, windshield wiper motor etc. (500-1,000 miles per G.M.) Clean brake assemblies with compressed air (50-100 miles per G.M.) or monthly to 90 days (per Ford). Clean the automobile completely including the engine, radiator, etc. as often as daily if necessary. Use water to flush material off. If available, use more complete instructions from vehicle manufacturer.

Passenger Compartment - Cover air intake to ventilation, heater, or air conditioning system with loosely woven felt-type material.

Air Cleaner - Use of heavy duty (HD) air filters is recommended. Inspect the air filter frequently, and clean using compressed air (30 psi) to remove dust from the filter element, blowing from inside out.

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Examine the filter for damage to the seal and for holes or cracks in filter material. Replace if necessary.

Recommended Inspection Frequency:

Ford 100 miles

Chrysler 100-300 miles (heavy ash - visibility up to 50 feet)  
1000 miles (light exposure - visibility up to 200 feet)

G.M. "often"

NOTE: G.M. recommends use of a H.D. filter consisting of a standard paper element with a wrap of open-cell polyurethane around the outside. The polyurethane wrapper is available as a separate item from AC-Delco distributors and can be added to a conventional filter.

Instructions are not available on fabricating the wrapper locally. A light coat of SAE-30 weight oil must be sprayed on the polyurethane wrapper; if spraying is not possible, dip it in oil and squeeze out ALL excess oil before installing. The wrapper can be washed in warm water and detergent and reinstalled after retreatment with oil. Replace the paper filter after three washings of the wrapper.

A chart with AC-Delco part numbers and filter dimensions is attached. Chrysler recommends use of a polyester wrap that fits around a standard paper filter. This part can be obtained from any Chrysler parts distributor, and can be re-used by shaking and cleaning with air. Polyester wrap part numbers for Chrysler engines are summarized on the following page.

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AC H.D. POLYURETHANE FILTER WRAP (ACFI-WRAP)

H.D. Poly-Wrap No.	Height Inside	Diameter Inside Unstretched	Application Parameters			H.D. Filter 18 Makes	Known Application	Pop Code
			In. Dia. + .5 In. Min Stretch	In. Dia. +1.5 In. Maximum Stretch	Std Filter used with this Poly-Wrap			
25041250	5.72 In.	10.3 In.	10.8 In.	11.8 In.	A269CW	A222C	A269CW Air Filter Element 1976-86 Chevrolet Truck V8 V8	C
25041251	4.15	12.0	12.5	13.5	A697C	A644C	A697C Air Filter Element 1979 Cadillac Models V8 350 1979 Diesel 1979 Oldsmobile Models V8 260 V8 350 Diesel	N-C
25041252	2.62	12.0	12.5	13.5	A366C	A542C	A366C Air Filter Element 1973-75 Ford F-Series V8 400 401 455 1975-76 Ford Tempo/Lesare V8	C
25041253	3.16	12.0	12.5	13.5	A212CW	A279C	A212CW Air Filter Element 1979-88 Buick Models V8 1973-88 Chevrolet Models V8 1979-88 Oldsmobile Models V8 1979-88 Pontiac Models V8 1979-76 Cadillac Models V8 350	A
25041254	3.54	11.0	11.5	12.5	A348C	A477C	A348C Air Filter Element 1979-75 Buick Models V8 1973-88 Chevrolet Models V8 1979-76 Chevrolet Truck V8 1973-75 GMC Truck V8 1979-75 Oldsmobile Models V8 260 305 350 (L) 1979-75 Pontiac Models V8	A
25041255	3.65	8.7	9.2	10.2	A178CW	A333C	A178CW Air Filter Element 1979-77 Buick Models V6 231 1979-70 Chevrolet Truck V8 1965-64 Corvair L8 1979-64 GMC Truck V8 1979-78 Malibu V6 200 1979-77 Oldsmobile Models V6 231 1979-77 Pontiac Models V6 231	A
25041256	3.12	10.3	10.8	11.8	A86CW	A223C	A86CW Air Filter Element 1959 Buick V8 1956-59 Chevrolet Models V8 1957-59 Pontiac V8	C
25041257	3.13	12.0	12.5	13.5	(A355C?)	A680C	A680C Air Filter Element 1979 Edorado V8 350 Diesel 1979 Toronado V8 350 Diesel	N-C
25041258	2.62	9.38	9.88	10.88	A331C	A277C	A331C Air Filter Element 1974-81 Oldsmobile Models V8 1975-85 Pontiac Models V8	B
25041259	3.12	9.38	9.88	10.88		A276C	A276C Air Filter Element (Heavy Duty) 1975-86 Chevrolet Truck L6 250 292 1974-70 GMC Truck L6 292 V8 350	D
25041260	1.98	8.7	9.2	10.2	A169C	A227C	A169CW Air Filter Element 1974 Apollo L6 250 1975-75 Buick Models L6 250 V8 231 1979-62 Chevrolet Models L6 L8 V6 196 231 V8 1971-84 F85/C, L6 V6 1975-75 Oldsmobile Models L6 250 V6 231 1974-73 Omega L6 250 1979-84 Pontiac Models L6 V8 305 V8 307 1973-75 Skyhawk V8 231 1971-82 Special Skyhawk L6 250 V6 V8 350 1979-75 Starfire V6 231	A
25041261	2.55	11.0	11.5	12.5	A329C	A368C	A329C Air Filter Element 1979-89 Buick Models V6 196, 231, V8 1979-88 Chevrolet Models V8 231 V8 1979-88 Chevrolet Truck V8 1979-88 GMC Truck V8 1979-75 Oldsmobile Models V8 231 V8 301 305 350 1979-75 Pontiac Models V6 221, V8 301 305 350	A

<u>Chrysler Engine</u>	<u>Polyester Wrap Part No.</u>
225	3830141
318	3830142
360 (single snorkel)	
400	
(double snorkel)	3830144
440	
400	
(single snorkel)	3870370
440	
318	
360 (med. duty truck only)	3830143
361	

Fuel Filter - Ford recommends service at 1000 mile intervals. Other manufacturers have not recommended special consideration. Be aware that a twenty gallon gas tank means twenty gallons of dusty air.

Oil Change and Oil Filter Change

	<u>Recommended Interval</u>
Chrysler	1000-3000 miles
Ford	500 miles
G.M.	500-1000 miles
	50-100 miles (heavy ash)

Lubrication - Lubricate monthly for continuous operation and every 90 days for normal operation according to Ford. Fittings should be cleaned carefully.

Pollution Equipment - Service PCV valve and change ECS filter as follow

Recommended Interval

G.M. - when air cleaner is serviced.  
Ford - 100 miles  
Chrysler - when oil is changed.

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Drive Train - Clean air vents on transmission and differential; cover with loose felt material (as used to filter air into passenger compartment). Ford suggests changing transmission fluid and filters as follows:

1000 miles - (continuous operation)

4000 miles - (normal operation)