



NEWS

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MAP Standards Updated for Engine Maintenance and Performance

Bethesda, Maryland — The Motorist Assurance Program (MAP) has released updates to its *Uniform Inspection & Communication Standards* (UICS) for Engine Maintenance and Performance. Definitions for Chemical Engine Decarbonization and Contaminated Oil System Service were added to the UICS in the sections covering the affected components. These updates are effective immediately and come recommended by the AMRA/MAP Technical Committee as a result of the research and maintenance services being explored by the AMRA Maintenance Service Program.

As part of the ongoing effort to update and re-publish the MAP UICS bi-annually, the MAP Board has determined that interim updates, such as these, should be released as developed when appropriate.

The updates for this system are listed on the attached excerpt. Revised copies of the complete Engine Maintenance and Performance standard will soon be available in electronic format from AMRA/MAP. Contact Tim Tierney at tim@motorist.org (301 634 4952) with your request.

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MAP was formed in June 1992 by a group of service providers, manufacturers, associations and others who were concerned about the reputation of the automotive repair industry. MAP works to strengthen communication and trust between the industry and its customers.



Condition

Code

Procedure

System: Engine Performance and Maintenance

CHEMICAL ENGINE DECARBONIZATION is a process utilizing chemicals to remove soft and semi-hardened gum, varnish, resin and carbon deposits from the air/fuel delivery systems and combustion chambers of internal combustion engines, providing benefits that include improved fuel economy, performance and driveability and reduced emissions. This processes is performed to remove deposits preferably prior to deposit accumulation and hardening which may require costly mechanical deposit removal or component replacement.

CONTAMINATED OIL SYSTEM SERVICE is an event based process (beyond that of a normal oil and filter change) performed to remove coolant, water or fuel contamination. Contamination increases oil's oxidation rate and has been shown to result in increased engine wear and reduced oil flow. CAUTION: Some OEM's (including GM and Honda) have issued Technical Service Bulletins advising that Chemical Crankcase Flushing may damage some engine components and that such damage will not be covered by the manufacturer's new car warranty.

Component : Carburetors and Chokes

Proper operation of a carburetor includes the ability to control air/fuel mixtures during all phases or driving operation to comply with all federal and local emissions standards. Adjustments are to be considered repairs.

15,000 miles or 12 months beyond most recent Chemical Engine Decarbonization	5	Suggest Chemical Engine Decarbonization
Air/fuel control incorrect	B	Require repair or replacement
Application incorrect	B	Require repair or replacement
Attaching hardware broken	A	Require repair or replacement of hardware
Attaching hardware missing	C	Require replacement of hardware
Attaching hardware not functioning	A	Require repair or replacement of hardware
Components binding	A	Require repair or replacement
Components damaged, affecting operation or performance	A	Require repair or replacement
Components missing	C	Require replacement of components

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Contaminated	A	Require repair or replacement Further Inspection required
<i>Some components may be serviceable; check for accepted cleaning procedure. Determine source of contamination, such as engine coolant, fuel, metal particles, or water. Require repair or replacement.</i>		
Controlling linkages binding	A	Require repair or replacement of linkage
Leaking	B	Require repair or replacement
Mechanical operation incorrect	B	Require repair or replacement
Operating incorrectly	B	Require repair or replacement

Component : Fuel Distributors (Bosch CIS)

15,000 miles or 12 months beyond most recent Chemical Engine Decarbonization	5	Suggest Chemical Engine Decarbonization
Inoperative	A	Require repair or replacement
<i>Inoperative includes intermittent operation.</i>		
Leaking	A	Require repair or replacement
Out of specification	B	Require repair or replacement
Restricted, affecting performance	A	Require repair or replacement Further inspection required
<i>Some components may be serviceable; check for accepted cleaning procedure.</i>		

Component : Fuel Injectors

15,000 miles or 12 months beyond most recent Chemical Engine Decarbonization	5	Suggest Chemical Engine Decarbonization
Attaching hardware missing	C	Require replacement of hardware
Attaching hardware threads damaged	A	Require repair or replacement of hardware
Attaching hardware threads stripped (threads missing)	A	Require repair or replacement of hardware

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Connector (Weatherpack type) leaking	A	Require repair or replacement
Connector broken	A	Require repair or replacement
Connector melted	A	Require repair or replacement <i>Determine cause and correct prior to repair or replacement of part.</i>
Connector missing	C	Require replacement
Contaminated	A	Require repair or replacement <i>Determine source of contamination, such as engine coolant, fuel, metal particles, or water. Require repair or replacement.</i>
Inoperative	A	Require repair or replacement <i>Inoperative includes intermittent operation or out of OEM specification. Some components may be serviceable; check for accepted cleaning procedure.</i>
Leaking	A	Require repair or replacement
Missing	C	Require replacement
Resistance out of specification	B	Require repair or replacement
Restricted, affecting performance	A	Require repair or replacement
Restricted, not affecting performance	2	Suggest repair or replacement
Terminal broken	A	Require repair or replacement
Terminal burned, affecting performance	A	Require repair or replacement <i>Determine cause and correct prior to repair or replacement of part.</i>
Terminal burned, not affecting performance	2	Suggest repair or replacement
Terminal corroded, affecting performance	A	Require repair or replacement
Terminal corroded, not affecting performance	2	Suggest repair or replacement
Terminal loose, affecting performance	B	Require repair or replacement

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Terminal loose, not affecting performance	1	Suggest repair or replacement
Threads damaged	A	Require repair or replacement
Threads stripped (threads missing)	A	Require replacement
Wire lead conductors exposed	B	Require repair or replacement
Wire lead corroded	A	Require repair or replacement
Wire lead open	A	Require repair or replacement
Wire lead shorted	A	Require repair or replacement

Component : Intake Manifolds

15,000 miles or 12 months beyond most recent Chemical Engine Decarbonization	5	Suggest Chemical Engine Decarbonization
Corroded, affecting sealability	A	Require repair or replacement
Integrated air or fuel control components inoperative <i>Inoperative includes intermittent operation or out of OEM specification.</i>	A	Require repair or replacement
Internal air or fuel components damaged, affecting performance	A	Require repair or replacement of component
Internal air or fuel components damaged, not affecting performance		No service suggested or required
Internal air or fuel components missing	C	Require replacement of component
Leaking	A	Require repair or replacement
Out of specification	B	Require replacement
Restricted	A	Require repair or replacement

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Threads damaged	A	Require repair or replacement
Threads stripped (threads missing)	A	Require repair or replacement
Warped	B	Require repair or replacement

Component : Throttle Bodies

15,000 miles or 12 months beyond most recent Chemical Engine Decarbonization	5	Suggest Chemical Engine Decarbonization
Connector (Weatherpack type) leaking	A	Require repair or replacement
Connector broken	A	Require repair or replacement
Connector melted	A	Require repair or replacement
<i>Determine cause and correct prior to repair or replacement of part.</i>		
Connector missing	C	Require replacement
Contaminated	A	Require repair or replacement
<i>Determine source of contamination, such as engine coolant, fuel, metal particles, or water. Require repair or replacement.</i>		
Deposits on throttle body components	A	Require repair
<i>Some throttles are coated by manufacturer; follow OEM-recommended procedures.</i>		
Leaking	A	Require repair or replacement
Restricted, affecting performance	A	Require repair
<i>Some components may be serviceable; check for accepted cleaning procedure.</i>		
Terminal broken	A	Require repair or replacement
Terminal burned, affecting performance	A	Require repair or replacement
<i>Determine cause and correct prior to repair or replacement of part.</i>		
Terminal burned, not affecting performance	2	Suggest repair or replacement
Terminal corroded, affecting performance	A	Require repair or replacement

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Terminal corroded, not affecting performance	2	Suggest repair or replacement
Terminal loose, affecting performance	B	Require repair or replacement
Terminal loose, not affecting performance	1	Suggest repair or replacement
Threads damaged	A	Require repair or replacement
Threads stripped (threads missing)	A	Require repair or replacement
Throttle shaft binding, affecting performance	A	Require repair or replacement
Throttle shaft worn, affecting performance	A	Require repair or replacement
Throttle shaft worn, not affecting performance	1	Suggest repair or replacement
Wire lead conductors exposed	B	Require repair or replacement
Wire lead corroded	A	Require repair or replacement
Wire lead open	A	Require repair or replacement
Wire lead shorted	A	Require repair or replacement

Reason Code Explanation

Code Reason

Required

- A Part No Longer Performs Intended Purpose*
- B Part Does Not Meet A Design Specification (Regardless Of Performance)*
- C Part Is Missing*

Suggested/Optional

- 1 Part Is Close To The End Of Its Useful Life*
- 2 To Address A Customer Need, Convenience Or Request*
- 3 To Comply With Maintenance Recommended By The Vehicle's Original Equipment Manufacturer*
- 4 Technician's Recommendation Based On Substantial And Informed Experience*
- 5 To Comply With Maintenance Recommended By AMRA/MAP*



Condition

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Component : Engine Oil

Contaminated	A	Require replacement of oil and filter <i>Determine source of contamination, such as engine coolant, fuel, metal particles, or water when changing oil. Suggest repair or replacement. (See Code 5)</i>
Level high	B	Determine source of incorrect level and require repair
Level low	B	Determine source of incorrect level and require repair
Maintenance intervals	3	Suggest replacement to comply with vehicle's OEM recommended service intervals

Reason Code Explanation

Code Reason

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Suggested/Optional

- 1 Part Is Close To The End Of Its Useful Life*
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- 3 To Comply With Maintenance Recommended By The Vehicle's Original Equipment Manufacturer*
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