

2021 ENGINE

Maintenance and Lubrication - Canyon, Colorado

SPECIFICATIONS

APPROXIMATE FLUID CAPACITIES

Maintenance Procedure	Link
Hydraulic Brake System Capacities	Approximate Fluid Capacities
Front Drive Axle Capacities	Approximate Fluid Capacities
Rear Drive Axle Capacities	Approximate Fluid Capacities
Engine Cooling Capacities	Approximate Fluid Capacities
HVAC Capacities	Approximate Fluid Capacities
Engine Controls and Fuel - 2.5L (LCV)	Approximate Fluid Capacities
Engine Controls and Fuel - 2.8L (LWN) Diesel	Approximate Fluid Capacities
Engine Controls and Fuel - 3.6L (LGZ)	Approximate Fluid Capacities
Engine Mechanical - 2.5L (LCV)	Approximate Fluid Capacities
Engine Mechanical - 2.8L (LWN) Diesel	Approximate Fluid Capacities
Engine Mechanical - 3.6L (LGZ)	Approximate Fluid Capacities
Automatic Transmission Fluid Capacities - 6L50 (MYB)	Approximate Fluid Capacities
Automatic Transmission Fluid Capacities - 8L45 (M5T)	Approximate Fluid Capacities
Transfer Case Capacities - MP 1622G (NQ7)	Approximate Fluid Capacities
Transfer Case Capacities - MP 3025G (NQ6)	Approximate Fluid Capacities

FLUID AND LUBRICANT RECOMMENDATIONS

Usage	Fluid/Lubricant
Automatic Transmission 6L50 (MYB)	Adhesives, Fluids, Lubricants, and Sealers
Automatic Transmission 8L45 (M5T)	Adhesives, Fluids, Lubricants, and Sealers
Chassis Lubrication	Chassis Lubricant (GM Part No. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Diesel Exhaust Aftertreatment System	Diesel Exhaust Fluid (GM Part No. 19286291, in Canada 88865751) or Diesel Exhaust Fluid that meets ISO 22241-1 or displays the API Diesel Exhaust Fluid Certification Mark.
Disc Brakes	Adhesives, Fluids, Lubricants, and Sealers
Engine Controls and Fuel - 2.5L (LCV)	Adhesives, Fluids, Lubricants, and Sealers
Engine Controls and Fuel - 2.8L (LWN) Diesel	Adhesives, Fluids, Lubricants, and Sealers
Engine Controls and Fuel - 3.6L (LGZ)	Adhesives, Fluids, Lubricants, and Sealers
Engine Heating and Cooling	Adhesives, Fluids, Lubricants, and Sealers
Engine Mechanical - 2.5L (LCV)	Adhesives, Fluids, Lubricants, and Sealers
Engine Mechanical - 2.8L (LWN) Diesel	Adhesives, Fluids, Lubricants, and Sealers
Engine Mechanical - 3.6L	Adhesives, Fluids, Lubricants, and Sealers

Usage (LGZ)	Fluid/Lubricant
Floor Coverings and Headlinings	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Frame and Underbody	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Front Drive Axle	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Front Suspension	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Heating, Ventilation, and Air Conditioning	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Hydraulic Brake System	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Key Lock Cylinders, Hood Hinges, Body Door Hinge Pins, Tailgate Hinge and Linkage, Fuel Door Hinge, Tailgate Handle Pivot Points, Hinges, Latch Bolt, and Linkage	Multi-Purpose Lubricant, Superlube (GM Part No. 12346241, in Canada 10953474)
Propeller Shaft	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Rear Drive Axle	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Seat Hardware, Trim, and Upholstery	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Steering Wheel and Column	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Tires and Wheels	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Transfer Case - MP 1622G (NQ7)	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Transfer Case - MP 3025G (NQ6)	<u>Adhesives, Fluids, Lubricants, and Sealers</u>
Weatherstrip Conditioning	Weatherstrip Lubricant (GM Part No. 3634770, in Canada 10953518) or equivalent
Weatherstrip Squeaks	Synthetic Grease with Teflon, Superlube (GM Part No. 12371287, in Canada 10953437)
Windshield Washer	Optikleen Washer Solvent (GM Part No. 1051515, in Canada 10951147)

MAINTENANCE ITEMS

Maintenance Procedure	Link
Approximate Fluid Capacities	<u>Approximate Fluid Capacities</u>
Fluid and Lubricant Recommendations	<u>Fluid and Lubricant Recommendations</u>
Maintenance Replacement Parts	<u>Maintenance Replacement Parts</u>
GM Oil Life System Resetting	<u>GM Oil Life System Resetting</u> , or <u>GM Oil Life System Resetting (With Scan Tool)</u>
GM Air Filter Life System Resetting	<u>GM Air Filter Life System Resetting (Without Scan Tool)</u> , or <u>GM Air Filter Life System Resetting (With Scan Tool)</u>
GM Fuel Filter Life System Resetting (LWN)	<u>GM Fuel Filter Life System Resetting (LWN)</u>
Tire Pressure Indicator Sensor Learn	<u>Tire Pressure Indicator Sensor Learn</u>
Passenger Compartment Air Filter Replacement	<u>Passenger Compartment Air Filter Replacement</u>
Brake Pad Inspection	<u>Brake Pad Inspection</u>
Cooling System Draining and Filling	<u>Cooling System Draining and Filling (Static Fill)</u> , or <u>Cooling System Draining and Filling (Vac n Fill)</u>
Hydraulic Brake System Bleeding	<u>Hydraulic Brake System Bleeding (Manual)</u> , or <u>Hydraulic Brake System Bleeding (Pressure)</u>

Maintenance Procedure	Link
Air Cleaner Element Replacement - 2.5L (LCV)	Air Cleaner Element Replacement
Air Cleaner Element Replacement - 2.8L (LWN) Diesel	Air Cleaner Element Replacement
Air Cleaner Element Replacement - 3.6L (LGZ)	Air Cleaner Element Replacement
Spark Plug Replacement - 2.5L (LCV)	Gas Engine Ignition Spark Plug Replacement
Spark Plug Replacement - 3.6L (LGZ)	Gas Engine Ignition Spark Plug Replacement
Drive Belt Replacement - 2.5L (LCV)	Drive Belt Replacement
Drive Belt Replacement - 2.8L (LWN) Diesel	Drive Belt Replacement
Drive Belt Replacement - 3.6L (LGZ)	Drive Belt Replacement
Fuel Filter Replacement - 2.8L (LWN) Diesel	Fuel Filter Replacement
Automatic Transmission Fluid, Fluid Pan and/or Filter Replacement - 6L50 (MYB)	Automatic Transmission Fluid, Fluid Pan and/or Filter Replacement
Automatic Transmission Fluid, Fluid Pan and/or Filter Replacement - 8L45 (M5T)	Automatic Transmission Fluid, Fluid Pan and/or Filter Replacement
Diesel Particulate Filter (DPF) Service Regeneration - 2.8L (LWN) Diesel	Diesel Particulate Filter (DPF) Service Regeneration

MAINTENANCE REPLACEMENT PARTS

Replacement parts identified below by name, part number, or specification can be obtained from your dealer.

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter	94775933	A3195C
Engine Oil Filter		
• 2.5L L4	12696048	PF64
• 3.6L V6	55594651	PF2257G
Passenger Compartment Air Filter	23135671	CF196
Spark Plugs		
• 2.5L L4	12627160	41 - 115
• 3.6L V6	12646780	41 - 130
Wiper Blades		
• Driver Side - 55 cm (21.7 in)	84225697	-
• Passenger Side - 45 cm (17.7 in)	84225696	-

MAINTENANCE

GM OIL LIFE SYSTEM RESETTNG

When to Change Engine Oil

This vehicle has a computer system that indicates when to change the engine oil and filter. This is based on engine revolutions and engine temperature, and not on mileage. Based on driving conditions, the mileage at which an oil change is indicated can vary considerably. For the oil life system to work properly, the system must be reset every time the oil is changed.

On some vehicles, when the system has calculated that oil life has been diminished, a CHANGE ENGINE OIL SOON message comes on to indicate that an oil change is necessary. Change the oil as soon as possible within the next 1 000 km (600 miles). It is possible that, if driving under the best conditions, the oil life system might not indicate that an oil change is necessary for over a year. However, the engine oil and filter must be changed at least once a year and at this time the system must be reset. For vehicles without the CHANGE ENGINE OIL SOON message, an oil change is needed when the OIL LIFE REMAINING percentage is near 0 percent. Your dealer has trained service people who will perform this work using genuine parts and reset the system. It is also important to check the oil regularly and keep it at the proper level.

If the system is ever reset accidentally, the oil must be changed at 5 000 km (3, 000 miles) since the last oil change. Remember to reset the oil life system whenever the oil is changed.

How to Reset the Engine Oil Life System

The Engine Oil Life System calculates when to change the engine oil and filter based on vehicle use. Whenever the oil is changed, reset the system so it can calculate when the next oil change is required. If a situation occurs where the oil is changed prior to a CHANGE ENGINE OIL SOON message coming on, reset the system.

Always reset the engine oil life to 100 percent after every oil change. It will not reset itself. To reset the Engine Oil Life System on most vehicles:

1. Display the OIL LIFE REMAINING on the DIC. If the vehicle does not have DIC buttons, the vehicle must be in P (Park) to access this display.
2. Press and hold the SET/RESET button on the DIC, or the trip odometer reset stem if the vehicle does not have DIC buttons, for more than five seconds. The oil life will change to 100 percent.

On all vehicles, the Engine Oil Life System can be reset as follows:

1. Turn the ignition to ON/RUN with the engine off.
2. Fully press the accelerator pedal slowly three times within five seconds.
3. Display the OIL LIFE REMAINING on the DIC. If the display shows 100 percent, the system is reset.

If the vehicle has a CHANGE ENGINE OIL SOON message and it comes back on when the vehicle is started and/or the OIL LIFE REMAINING is near 0 percent, the Engine Oil Life System has not reset. Repeat the procedure.

GM OIL LIFE SYSTEM RESETTING (WITH SCAN TOOL)

When the system has calculated that oil life has been diminished, it will indicate that an oil change is necessary. A ENGINE OIL light message will come on. Change the engine oil as soon as possible within the next 600 miles (1 000 km). It is possible that, if driving under the best conditions, the oil life system may not indicate that an oil change is necessary for over a year. However, the engine oil and filter must be changed at least once a year and at this time the system must be reset.

(If applicable) With Scan Tool

1. Ignition - On / Vehicle - In Service Mode
2. Select: Module Diagnostics
3. Select: K20 Engine Control Module
4. Select: Configuration/Reset Functions
5. Select: Reset Functions
6. Select: Engine Oil Life Reset
7. Enter the desired value
8. Select: Continue

GM AIR FILTER LIFE SYSTEM RESETTING (WITHOUT SCAN TOOL)

When to Change Engine Air Filter

If equipped, this feature provides an indication of when to change the engine air filter. It is based on driving conditions, which can cause when to change, and can vary greatly. It is possible an air filter change may not be indicated for up to four years.

Replace the engine air filter when the REPLACE NOW message displays on the Driver Information Center (DIC). This should be done as soon as possible within the next 600 miles (1, 000 km). The system must be reset after the engine air filter is changed.

When a REPLACE AT NEXT OIL CHANGE message displays, this indicates that the engine air filter change is necessary at the next engine oil change.

How to Reset the Engine Air Filter Life System

To reset:

1. Place the vehicle in P (Park).
2. Display the Air Filter Life on the DIC.
3. Press > to move to the Reset/Disable display area. Select "Reset" and then press the.
4. Press to confirm to reset.

GM AIR FILTER LIFE SYSTEM RESETTING (WITH SCAN TOOL)

Description

This feature provides the engine air filter's remaining life and best timing for a change. The timing to change an engine air filter depends on driving and environmental conditions. When the Driver Information Center (DIC) displays a message to replace the engine air filter at the next oil change, follow this timing. When the DIC displays a message to replace the engine air filter soon, replace the engine air filter at the earliest convenience. The system must be reset after the engine air filter is changed. If the DIC displays a message to check the engine air filter system, reset the system on DIC or use Scan Tool to reset.

When to Perform the Procedure

Perform this procedure when the following component has been serviced:

- K20 Engine Control Module - Replaced
- Engine - Air Cleaner Element - Replaced

Conditions for Running the Procedure

- Engine = Off
- Ignition = On
- Vehicle Speed = 0 km/h (0 MPH)

(If applicable) With Scan Tool

NOTE: If the system can not be reset on DIC, use Scan Tool to reset

1. Ignition - On / Vehicle - In Service Mode
2. Select: Module Diagnostics
3. Select: K20 Engine Control Module
4. Select: Control Functions
5. Select: Engine Air Filter Monitor Setup
6. Select: Reset

GM FUEL FILTER LIFE SYSTEM RESETTNG (LWN)

Diagnostic Instructions

- Perform the Diagnostic System Check prior to using this diagnostic procedure: [Diagnostic System Check - Vehicle](#)
- Review the description of Strategy Based Diagnosis: [Strategy Based Diagnosis](#)

Description

This procedure resets the control module learned values of the component/system: Fuel Filter

When to Perform the Procedure

Perform this procedure when the following component has been serviced:

- K20 Engine Control Module - Replaced
- Fuel Filter - Replaced

Conditions for Running the Procedure

Ignition = Run/Crank

Reference Information

Scan Tool Reference

Control Module References

With Scan Tool

1. Ignition - On / Vehicle - In Service Mode
2. Select: Module Diagnostics
3. Select: Engine Control Module
4. Select: Configuration/Reset Functions
5. Select: Reset Functions
6. Select: Fuel Filter Life Reset
7. Follow the instructions on the scan tool.

Without Scan Tool

1. Ignition - On / Vehicle - In Service Mode
2. Transmission in Park

NOTE: The Fuel Filter Life will only display on the DIC if the Ignition is On, the vehicle is in Service Mode, and the gear selector is in Park.

3. Display the Fuel Filter Life Remaining on the DIC. If the vehicle does not have DIC buttons, use the trip odometer reset stem.
4. Press and hold the SET/RESET button on the DIC, or the trip odometer reset stem if the vehicle does not have DIC buttons, for more than two seconds. The Fuel Filter Life Remaining will change to 100 percent.
5. Verify the procedure was successful.

- **If the procedure was not successful**

Refer to: Step 1

- **Go to next step: If the procedure was successful**

6. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair: [Diagnostic Repair Verification](#)

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