

2007 Honda Element EX

2007-08 MAINTENANCE Maintenance - Element

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Maintenance - Element

LUBRICANTS AND FLUIDS

For details of lubrication points and type of lubricants to be applied, refer to **LUBRICANTS AND FLUIDS SPECIFICATION** and various work procedures (such as Assembly/Reassembly, Replacement, Overhaul, Installation, etc.) .

LUBRICANTS AND FLUIDS SPECIFICATION

Application		Lubricant or Fluid	
A	Engine	Honda Motor Oil: American Honda P/N 08798-9023 (5W-20), Honda Canada P/N CA 66806 (5W-20) Look for the API certification seal on the oil container. Make sure it says "For Gasoline Engines." SAE viscosity: See chart.	
B	Manual transmission	Honda Manual Transmission Fluid (MTF): P/N 08798-9031 Always use Honda MTF. Using motor oil can cause stiffer shifting because it does not contain the proper additives.	
	Automatic transmission	Honda Automatic Transmission Fluid (ATF-Z1): American Honda P/N 08200-9001, Honda Canada P/N CA66689 Always use Honda ATF-Z1. Using a non-Honda ATF can affect shift quality.	
C	Brake system (including VSA lines)	Honda DOT 3 Brake Fluid: P/N 08798-9008 Always use Honda DOT 3 Brake Fluid. Using a non-Honda brake fluid can cause corrosion and decrease the life of the system.	
D	Clutch system (manual transmission)	Honda DOT 3 Brake Fluid: P/N 08798-9008 Always use Honda DOT 3 Brake Fluid. Using a non-Honda brake fluid can cause corrosion and decrease the life of the system.	
E	Shift cable ends (manual transmission)	Honda Silicone Grease: P/N 08C30-B0234M	
F	Brake booster clevis pin	Multipurpose Grease	
G	Clutch master cylinder clevis pin (manual transmission)		
H	Release fork (manual transmission)		
I	Battery terminals		
J	Pedal linkage		
K	Fuel fill door		
L	Hood hinges and hood latch		
M	Tailgate hinges and tailgate latch		
N	Caliper piston boot and seal, caliper pins and boots		Honda Silicone Grease: P/N 08C30-B0234M

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O	Power steering system	Honda Power Steering Fluid: P/N 08206-9002 Always use Honda Power Steering Fluid. Using any other type of power steering fluid or automatic transmission fluid can cause increased wear and poor steering in cold weather.
P	Air conditioning compressor	Compressor Oil: DENSO ND-OIL 8 (P/N 38897-PR7-A01AH or 38899-PR7-A01) for refrigerant HFC-134a (R-134a)
Q	Rear differential	Honda Dual Pump Fluid II: P/N 08200-9007
R	Cooling system	Honda Long Life Antifreeze/Coolant Type 2: P/N OL999-9001

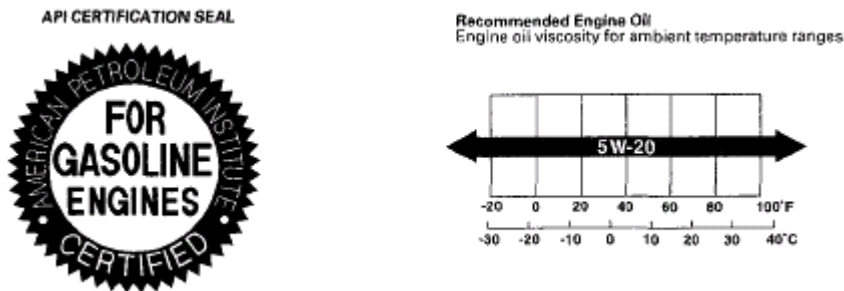


Fig. 1: Identifying API Certifications Seal And Recommended Engine Oil
Courtesy of AMERICAN HONDA MOTOR CO., INC.

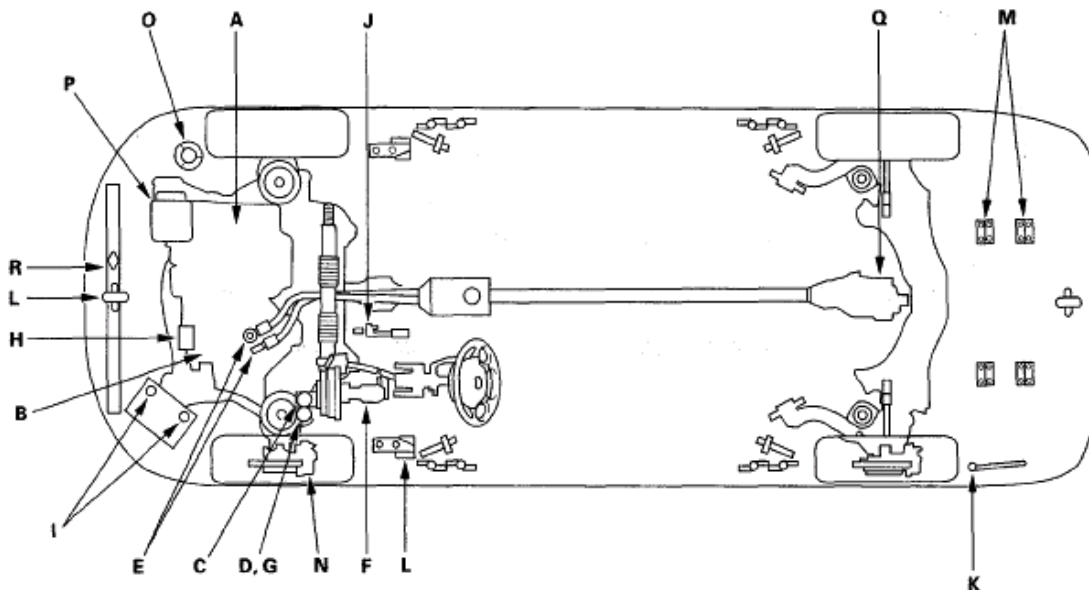


Fig. 2: Identifying Lubrication Points
Courtesy of AMERICAN HONDA MOTOR CO., INC.

MAINTENANCE MINDER

GENERAL INFORMATION

Maintenance Display

The maintenance minder is an important feature of the information display. The Element's onboard computer (ECM/PCM) calculates the remaining engine oil life. The system also displays the code for other scheduled maintenance items needing service.

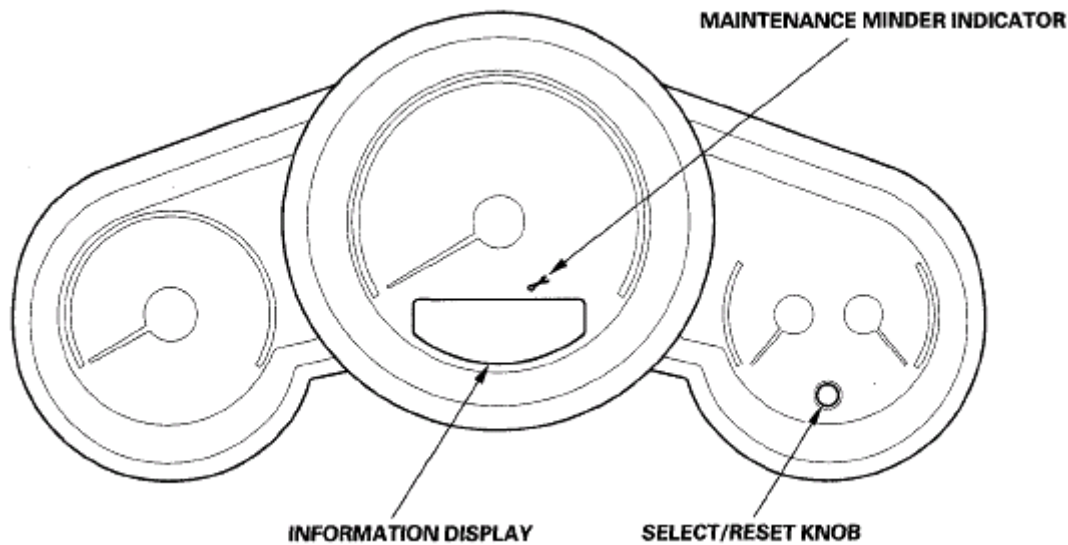


Fig. 3: Identifying Minder Display

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Service Information

1. The remaining engine oil life (A) is shown as a percentage on the information display. To see the current engine oil life, turn the ignition switch to the ON (II) position, then push and release the SELECT/RESET knob repeatedly until the engine oil life displays.

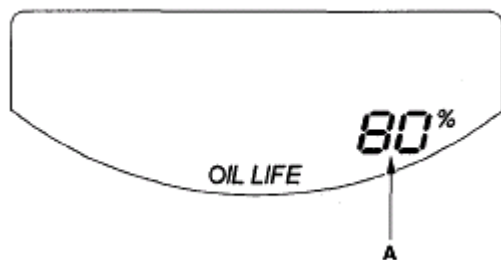


Fig. 4: Identifying Oil Life At 80 Percent Displayed

Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. When the ignition switch is in the ON (II) position, and the remaining engine oil life is 6% to 15%, the remaining engine oil life (A) and other scheduled maintenance item(s) needing service are displayed. The maintenance minder indicator (B) also comes on when the engine oil life is 15% or less.

To cancel the display and the indicator, press the SELECT/RESET knob.

- Complete list of maintenance main items (C) (see **MAINTENANCE MAIN ITEMS**).

- Complete list of maintenance sub items (D) (see MAINTENANCE SUB ITEMS).

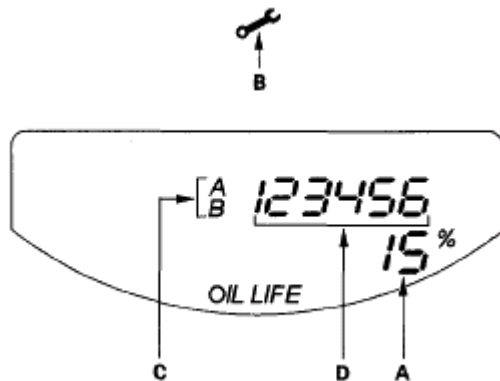


Fig. 5: Identifying Oil Life At 15 Percent Displayed
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. When the ignition switch is in the ON (II) position, and the remaining engine oil life is 1% to 5%, the message "SERVICE" (A) is displayed along with engine oil life and the same maintenance item code(s).

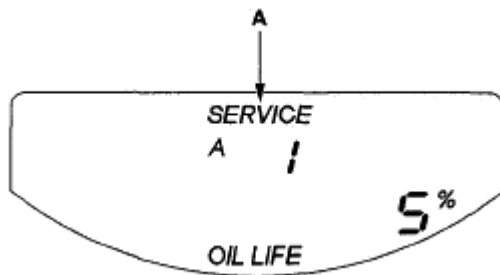


Fig. 6: Identifying SERVICE Display
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. When the ignition switch is in the ON (II) position, and the remaining engine oil life is 0%, the engine oil life indicator (A) blinks.

Pressing the SELECT/RESET knob cancels the display, but the maintenance minder indicator stays on.

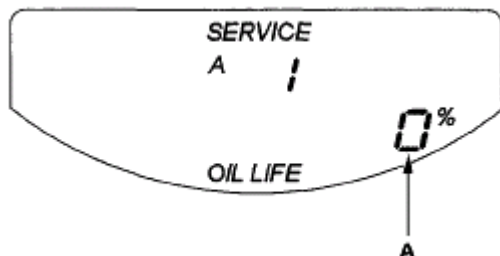


Fig. 7: Identifying SERVICE At 0 Percent Display
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. If the indicated maintenance is not done, the engine oil life indicator shows a negative mileage, for example "-10," on the display.

If the negative mileage is between 0 and -9, the indicator is displayed for only a few seconds when the ignition switch is turned to the ON (II) position. The negative mileage remains displayed after the vehicle is driven more than 10 miles (for USA models) or 10 km (for Canada models) after 0% oil life is reached, and the display cannot be canceled. This means the indicated maintenance item(s) should have been done more than 10 miles (or 10 km) ago.

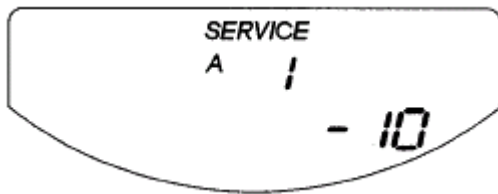


Fig. 8: Identifying SERVICE At Negative 10 Miles Displayed
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Resetting the Maintenance Information Display

NOTE:

- The vehicle must be stopped to reset the display.
- If a required service is done and the display is not reset, or if the maintenance display is reset without doing the service, the system will not show the proper maintenance timing. This can lead to serious mechanical problems because there will be no accurate record of when the required maintenance is needed.
- The engine oil life and the maintenance item(s) can be reset independently only with the HDS.

1. Turn the ignition switch to the ON (II) position.
2. Push the SELECT/RESET knob repeatedly until the engine oil life indicator is displayed.
3. Press and hold the SELECT/RESET knob for about 10 seconds. The engine oil life indicator and the maintenance item code(s) will blink.

NOTE: If you are resetting the display when the engine oil life is more than 15%, make sure any maintenance item(s) requiring service are done before resetting the display.

4. Press and hold the SELECT/RESET knob for another 5 seconds. The maintenance item code(s) will disappear, and the engine oil life will reset to "100."

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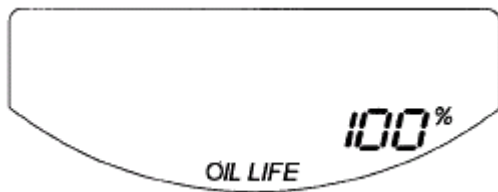


Fig. 9: Identifying Oil Life At 100 Percent Displayed
Courtesy of AMERICAN HONDA MOTOR CO., INC.

MAINTENANCE MAIN ITEMS

If the message "SERVICE" does not appear more than 12 months after the display is reset, change the engine oil every year.

NOTE:

- Replace the brake fluid every 3 years (independent of the maintenance messages in the information display).
- Inspect idle speed every 160,000 miles (256,000 km).
- Adjust the valves during services A, B, 1,2, or 3, only if they are noisy.

MAINTENANCE MAIN ITEMS SPECIFICATION CHART

Symbol	Maintenance Main Items
A	Replace engine oil (see <u>ENGINE OIL REPLACEMENT</u>) Engine oil capacity without engine oil filter: 4.0 L (4.2 US qt).
	Replace engine oil and oil filter (see <u>ENGINE OIL FILTER REPLACEMENT</u>) Engine oil capacity with engine oil filter: 4.2 L (4.4 US qt).
	Check front and rear brakes (see <u>COMPONENT LOCATION INDEX</u>) <ul style="list-style-type: none">• Check pads and discs for wear (thickness), damage, and cracks.• Check calipers for damage, leaks, and tightness of mounting bolts.
	Check parking brake adjustment (see <u>PARKING BRAKE INSPECTION AND ADJUSTMENT</u>) Check the number of clicks (4 to 7 for LX, EX)/(8 to 10 for SC) when the parking brake lever is pulled with 196 N (20 kgf, 44 lbf) of force.
	Inspect tie-rod ends, steering gearbox, and gearbox boots (see <u>COMPONENT LOCATION INDEX</u>) <ul style="list-style-type: none">• Check rack grease and steering linkage.• Check boots for damage and leaking grease.• Check fluid lines for damage or leaks.
	Inspect suspension components (see <u>COMPONENT LOCATION INDEX</u>) <ul style="list-style-type: none">• Check bolts for tightness.• Check condition of ball joint boots for deterioration and damage.

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B	Inspect driveshaft boots (see <u>DRIVESHAFT INSPECTION</u>) Check boots for cracks and boot bands for tightness.
	Inspect brake hoses and lines including VSA lines (see <u>BRAKE HOSE AND LINE INSPECTION</u>) Check the master cylinder and VSA modulator-control unit for damage or leakage.
	Inspect all fluid levels, condition of fluids, and for leaks. <ul style="list-style-type: none"> • Engine coolant (see <u>COOLANT CHECK</u>) • Manual transmission fluid (MTF) (see <u>TRANSMISSION FLUID INSPECTION AND REPLACEMENT</u>) • Automatic transmission fluid (ATF) (see <u>ATF LEVEL CHECK</u>) • Rear differential fluid (see <u>REAR DIFFERENTIAL FLUID INSPECTION AND REPLACEMENT</u>) • Clutch fluid (see step 1 on <u>CLUTCH HYDRAULIC SYSTEM BLEEDING</u>) • Brake fluid (see <u>BRAKE SYSTEM BLEEDING</u>) • Windshield washer fluid (see <u>WASHER RESERVOIR REPLACEMENT</u>)
	Inspect exhaust system* (see <u>EXHAUST MANIFOLD REMOVAL AND INSTALLATION</u>) Check catalytic converter heat shields, exhaust pipes, and muffler for damage, leaks, and tightness.
	Inspect fuel lines and connections* (see <u>FUEL LINE INSPECTION</u>) Check for loose connections, cracks, and deterioration; retighten loose connections and replace damaged parts.

NOTE: According to state and federal regulations, failure to do the maintenance items marked with an asterisk (*) will not void the customer's emissions warranties. However, Honda recommends that all maintenance services be done at the recommended interval, to ensure long-term reliability.

MAINTENANCE SUB ITEMS

MAINTENANCE SUB ITEMS SPECIFICATION CHART

Number	Maintenance Sub Items
1	Rotate tires, and check tire inflation and condition. Follow the pattern shown in the Owner's Manual.
2	Replace air cleaner element (see <u>AIR CLEANER REMOVAL/INSTALLATION</u>) If the vehicle is driven primarily in dusty conditions, replace every 15,000 miles (24,000 km). Replace dust and pollen filter (see <u>HEATER CONTROL PANEL REMOVAL/INSTALLATION</u>) <ul style="list-style-type: none"> • If the vehicle is driven in areas that have high concentrations of dust, pollen, or soot in the air, replace every 15,000 miles (24,000 km). • Replace the filter whenever airflow from the heating and air conditioning system is less than normal.

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	<p>Inspect drive belt (see <u>DRIVE BELT INSPECTION</u>) Look for cracks and damage, then check the position of the drive belt auto-tensioner indicator.</p>
	<p>Replace manual transmission fluid (see <u>TRANSMISSION FLUID INSPECTION AND REPLACEMENT</u>) Capacity: 1.9 L (2.0 US qt); use Honda MTF.</p>
3	<p>Replace automatic transmission fluid (see <u>ATF REPLACEMENT</u>) Capacity: 4WD 2.5 L (2.6 US qt), 2WD 2.6 L (2.7 US qt); use Honda ATF-Z1. Driving in mountainous areas at very low vehicle speeds or trailer towing results in higher transmission and transfer temperatures. This requires transmission and transfer fluid changes more frequently than recommended by the Maintenance Minder. If the vehicle is regularly driven under these conditions, have the transmission and transfer fluid changed at 60,000 miles (100,000 km), then every 30,000 miles (48,000 km).</p>
4	<p>Replace spark plugs (see <u>SPARK PLUG INSPECTION</u>) Use IZFR6K11 (NGK) or SKJ20DR-M11 (DENSO).</p>
	<p>Inspect the valve clearance (cold) (see <u>VALVE CLEARANCE ADJUSTMENT</u>) Intake: 0.21-0.25 mm (0.008-0.010 in.). Exhaust: 0.28-0.32 mm (0.011-0.013 in.).</p>
5	<p>Replace engine coolant (see <u>COOLANT CHECK</u>) Capacity (including reservoir): M/T model: 5.2 L (1.37 US gal), A/T model 5.1 L (1.35 US gal); use Honda Long Life Antifreeze/Coolant Type 2.</p>
6	<p>Replace rear differential fluid (see <u>REAR DIFFERENTIAL FLUID INSPECTION AND REPLACEMENT</u>) Capacity: 1.0 L (1.1 US qt); use Honda Dual Pump Fluid II.</p>