

2007-2008 MAINTENANCE**Maintenance - TL****LUBRICANTS AND FLUIDS**

For details of lubrication points and type of lubricants to be applied, refer to the illustrated index and various work procedures (such as Assembly/Reassembly, Replacement, Overhaul, Installation, etc.) contained in each section.

LUBRICANTS AND FLUIDS CHART

Application		Lubricant or Fluid
A	Engine	Acura Motor Oil: P/N 08798-9023A (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	Acura Manual Transmission Fluid (MTF): P/N 08798-9031A Always use Acura MTF. Using motor oil can cause stiffer shifting because it does not contain the proper additives.
	Automatic transmission	Acura Automatic Transmission Fluid (ATF-Z1): P/N 08200-9001A Always use Acura ATF-Z1. Using a non-Acura ATF can affect shift quality.
C	Brake system (including VSA lines)	Acura DOT 3 Brake Fluid: P/N 08798-9008A Always use Acura DOT 3 Brake Fluid. Using a non-Acura brake fluid can cause corrosion and decrease the life of the system.
D	Clutch system (manual transmission)	Acura DOT 3 Brake Fluid: P/N 08798-9008A Always use Acura DOT 3 Brake Fluid. Using a non-Acura 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	Shift lever (manual transmission)	
J	Battery terminals	
K	Fuel fill door	
L	Hood hinges and hood latch	
M	Trunk hinges	
N	Caliper piston boot and seal, caliper pins and boots	Honda Silicone Grease: P/N 08C30-B0234M
O	Power steering system	Acura Power Steering Fluid: P/N 08206-9002A Always use Acura 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	Cooling system	Acura Long Life Antifreeze/Coolant Type 2: P/N OL999-9011A

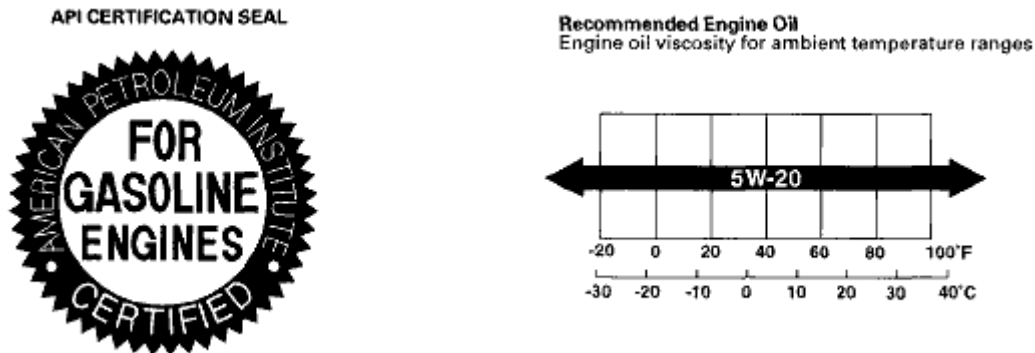


Fig. 1: Engine Oil Viscosity Chart

Courtesy of AMERICAN HONDA MOTOR CO., INC.

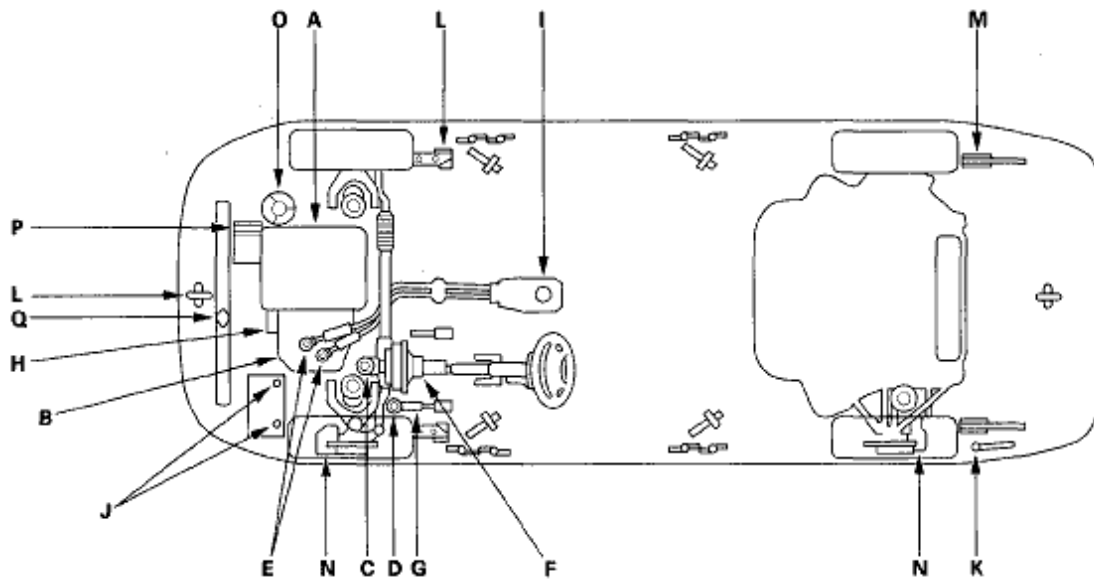


Fig. 2: Identifying Lubricants And Fluids Points

Courtesy of AMERICAN HONDA MOTOR CO., INC.

MAINTENANCE MINDER

GENERAL INFORMATION

Multi-information Display

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

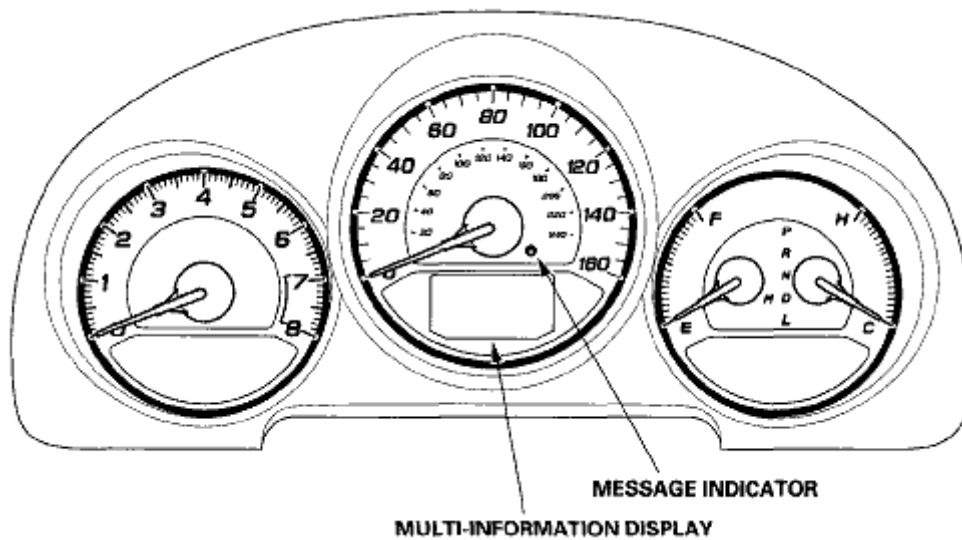


Fig. 3: Identifying Multi-Information Display
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Steering Wheel:

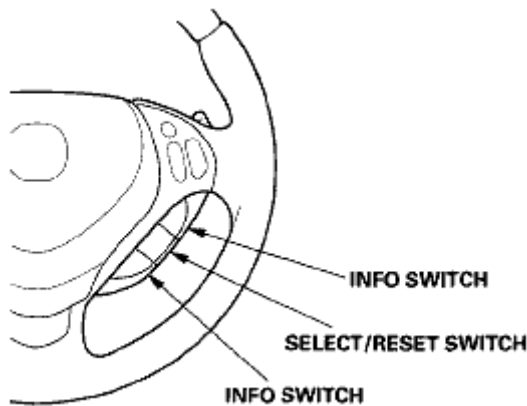


Fig. 4: Identifying Steering Wheel With Switch
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Service Information

1. The remaining engine oil life (A) is shown as a percentage in the multi-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 switch repeatedly until the engine oil life displays.

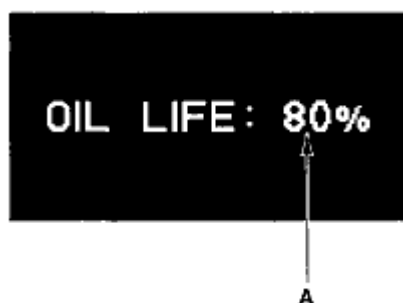


Fig. 5: Showing Engine Oil Life Percentage

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 and other scheduled maintenance item(s) needing service are displayed. The maintenance system message "SERVICE DUE SOON" (A) also comes on. To cancel the message, press the INFO switch. The display continues to show the remaining engine oil life (B) and the message indicator (C) until it is reset.
 - Complete list of maintenance main items (D) (see MAINTENANCE MAIN ITEMS).
 - Complete list of maintenance sub items (E) (see MAINTENANCE SUB ITEMS).



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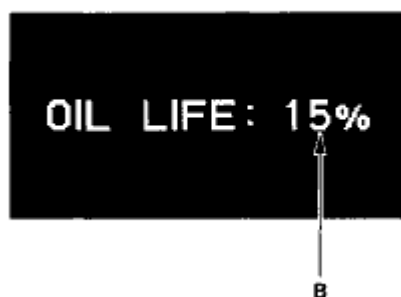


Fig. 6: Showing Engine Oil Life Percentage

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 maintenance system message "SERVICE DUE NOW" is displayed along with the same maintenance item code(s). If the maintenance system message display is canceled, a "SERVICE" message appears.



Fig. 7: Showing Engine Oil Life Percentage

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 maintenance system message "SERVICE PAST DUE" is displayed along with the same maintenance item code(s).



Fig. 8: Displaying Service Due Message A1

Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. If the indicated maintenance is not done, the "SERVICE PAST DUE" message shows a negative mileage, for example "-10," on the display. If the negative mileage is between 0 and -9, the message is displayed for only a few seconds when the ignition switch is turned to the ON (II) position. The negative mileage (A) 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. 9: Displaying Service Past Due Message A1

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 maintenance item(s) can be reset independently only with the HDS.

1. Turn the ignition switch to ON (II) position.
2. If system message(s) are displayed, press the INFO switch to cancel the display.
3. Push and release the SELECT/RESET switch repeatedly until the engine oil life indicator is displayed.
4. Press and hold the SELECT/RESET switch for about 10 seconds, the "MAINTENANCE RESET" mode display appears.

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.
- To cancel the "MAINTENANCE RESET" mode, press the INFO switch repeatedly until the "CANCEL" indicator is displayed, then press the SELECT/RESET switch.



Fig. 10: Displaying Service Past Due Message A1
Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Press the INFO switch to select "RESET", then press the SELECT/RESET switch. The maintenance item code(s) will disappear, and the engine oil life will reset to "100."



Fig. 11: Displaying Maintenance Information
Courtesy of AMERICAN HONDA MOTOR CO., INC.

MAINTENANCE MAIN ITEMS

If the message "SERVICE DUE NOW" 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 multi-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 CHART

Symbol	Maintenance Main Items
A	Replace engine oil (see <u>ENGINE OIL REPLACEMENT</u>). Engine oil capacity without oil filter: 4.0 L (4.2 US qt)
B	Replace engine oil and oil filter (see <u>ENGINE OIL FILTER REPLACEMENT</u>). Engine oil capacity with oil filter: 4.3 L (4.5 US qt)
	Check front and rear brakes (see <u>COMPONENT LOCATION INDEX</u>). • 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 (6 to 8) 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>STEERING LINKAGE AND GEARBOX INSPECTION</u>). • 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>). • Check bolts for tightness. • Check condition of ball joint boots for deterioration and damage.
	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 and leakage.
	Inspect all fluid levels and condition of fluids. • Engine coolant (see <u>COOLANT CHECK</u>) • Manual transmission fluid (MTF) (see <u>TRANSMISSION FLUID INSPECTION AND REPLACEMENT</u>) • Automatic transmission fluid (ATF-Z1) (see <u>ATF LEVEL CHECK</u>) • Clutch fluid (see step 1 in <u>CLUTCH HYDRAULIC SYSTEM BLEEDING</u>) • Power steering fluid (see <u>FLUID CHECK/REPLACEMENT</u>) • Brake fluid (see <u>BRAKE SYSTEM BLEEDING</u>) • Windshield washer fluid (see <u>WASHER RESERVOIR REPLACEMENT</u>)
	Inspect exhaust system* J32A3 (see <u>EXHAUST PIPE AND MUFFLER REPLACEMENT</u>), J35A8 (see <u>J35A8 ENGINE</u>). Check catalytic converter heat shields, exhaust pipes, and muffler for damage, leaks, and

tightness.

Inspect fuel lines and connections* (see **FUEL LINE INSPECTION**).

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 client's emissions warranties. However, Acura recommends that all maintenance services be done at the recommended interval, to ensure long-term reliability.

MAINTENANCE SUB ITEMS

MAINTENANCE SUB ITEMS 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 ELEMENT INSPECTION/REPLACEMENT</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>DUST AND POLLEN FILTER REPLACEMENT</u>). • If the vehicle is driven mostly in urban 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. 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.
3	Replace manual transmission fluid (see <u>TRANSMISSION FLUID INSPECTION AND REPLACEMENT</u>). Capacity: 2.2 L (2.3 US qt); use Acura MTF. Replace automatic transmission fluid (see <u>ATF REPLACEMENT</u>). • Driving in mountainous areas at very low vehicle speeds results in higher transmission temperatures. This requires transmission fluid changes more frequently than recommended by the maintenance minder. If the vehicle is driven under these conditions, have the transmission fluid changed at 60,000 miles (96,000 km), then every 30,000 miles (48,000 km). • Capacity: 3.1 L (3.3 US qt); use Acura ATF-Z1.
4	Replace spark plugs (see <u>SPARK PLUG INSPECTION</u>). Use IZFR6K11 (NGK). Replace timing belt (see <u>TIMING BELT REPLACEMENT</u>). If the vehicle is regularly driven in very high temperatures (over 110°F, 43°C), or in very low temperatures (under -20°F, -29°C), replace every 60,000 miles (USA models)/100,000 km (Canada models) and inspect water pump (see <u>WATER PUMP INSPECTION</u>). Inspect valve clearance (cold) (see <u>VALVE CLEARANCE ADJUSTMENT</u>). Intake: 0.20-0.24 mm (0.008-0.009 in.), Exhaust: 0.28-0.32 mm (0.011-0.013 in.)
	Replace engine coolant (see <u>COOLANT CHECK</u>).

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Capacity (including the reservoir): 6.3 L (1.66 US gal); use Acura Long Life Antifreeze/Coolant Type 2.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) (If engine electrical maintenance is required)

The Acura TL SRS includes a driver's airbag in the steering wheel hub, a passenger's airbag in the dashboard above the glove box, seat belt tensioners in the front seat belt retractors, side curtain airbags in the sides of the roof, and side airbags in the front seat-backs. Information necessary to safely service the SRS is included in this Service Manual. Items marked with an asterisk (*) on the contents page include or are located near SRS components. Servicing, disassembling, or replacing these items requires special precautions and tools, and should be done by an authorized Acura dealer.

- To avoid rendering the SRS inoperative, which could lead to personal injury or death in the event of a severe frontal or side collision, all SRS service work should be done by an authorized Acura dealer.
- Improper service procedures, including incorrect removal and installation of the SRS, could lead to personal injury caused by unintentional deployment of the airbags and/or side airbags.
- Do not bump or impact the SRS unit, front impact sensors, or side impact sensors when the ignition switch is ON (II), or for at least 3 minutes after the ignition switch is turned OFF; otherwise, the system may fail in a collision, or the airbags may deploy.
- SRS electrical connectors are identified by yellow color coding. Related components are located in the steering column, front console, dashboard, dashboard lower panel, in the dashboard above the glove box, in the front seats, in the roof side, and around the floor. Do not use electrical test equipment on these circuits.