

# A QUICK AND EASY GUIDE FOR ANYONE WHO DRIVES

# Welcome to the World of Car Care

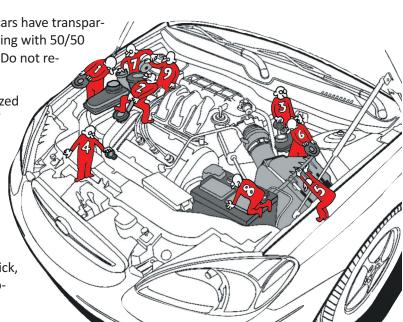
Whether or not you pump your own gas, your car probably receives less attention than it should. Regular maintenance checks and simple service can greatly reduce the expense of car ownership. Most of the checks and services described here can be done at little or no cost. Best of all, they are quick and easy to do and save time, money and inconvenience now and later. Always refer to your owner's manual when performing any mainte-nance task on your vehicle. Periodically, your car should have a thorough inspection by a qualified technician.



- >> For maximum fuel efficiency and cleaner air, keep your engine in top operating condition.
- >> For safe driving, keep brakes, steering and suspension systems in A-1 shape.

## **Under the Hood**

- Check the antifreeze/coolant level monthly. Some cars have transparent reservoirs with level markings. Fill to level marking with 50/50 solution of anti-freeze/coolant and water. Caution: Do not remove the pressure cap when engine is hot.
- 2. Inspect belts and hoses monthly. Replace worn, glazed or frayed belts. Tighten them when more than 1/2" of slack can be depressed between the pulleys. Vehicles with spring loaded belt tensioners require no adjustment. Replace bulging, rotten, or brittle hoses and tighten clamps. If a hose looks bad, or feels too soft or too hard, it should be replaced.
- 3. Check transmission fluid monthly on a level surface with the engine warm and running, and parking brake on. Shift to drive, then to park. Remove dipstick, wipe dry, insert it and remove it again. Add the approved type fluid, if required. Do not overfill!



4. Check oil every other gas fill up. Remove the dipstick, wipe it clean. Insert it fully and remove it again. If it is low, add oil. To maintain peak performance, change oil following the manufacturers' recommended service interval. Replace oil filter with every oil change.

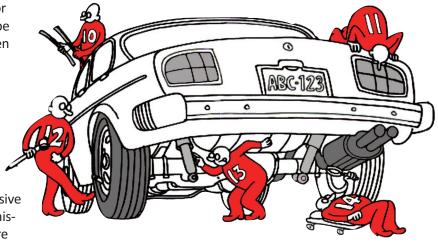


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- 5. Check the engine air filter monthly. Replace it whenever it is visibly restricted. It is easy to reach, in a rectangular box at the forward end of the air duct hose assembly; or right under the big metal "lid" in a carbureted engine.
- 6. Check brake fluid monthly. First, wipe dirt from the brake master cylinder reservoir lid. Unscrew plastic lid or pry off the retainer clip and remove the lid, depending on which type your vehicle has. If Brake Fluid level is low, add the approved type and check for possible leaks throughout the system. Fill to mark on reservoir. Caution: Do not overfill.
- 7. Keep windshield washer fluid reservoir full. When topping off, use some windshield washer fluid on a rag to clean off the wiper blades. In winter months, pay attention to the freezing point of the washer fluid.
- 8. Use extreme caution when handling a battery since it can produce explosive gases. Do not smoke, create a spark or light a match near a battery and always wear protective glasses and gloves. Have it checked with every oil change. Cables should be securely attached and be free of corrosion.
- 9. Check power steering fluid level once per month. Some cars have transparent reservoirs with level markings. Some may have a dipstick attached to the reservoir cap. If the level is down, add fluid and inspect the pump and hoses for leaks.

## Around the Car

- 10. Inspect windshield wiper blades whenever you clean your windshield. Do not wait until rubber is worn or brittle to replace them. Wiper blades should be replaced at least once per year, and more often if smearing or chattering occurs.
- **11.** Be sure all your lights are clean and working, including brake lights, turn signals and emergency flashers. Keep spare bulbs and fuses in your vehicle.
- 12. Keep tires inflated to pressure recommended on placard (it helps to own your own gauge). Check for cuts, bulges and excessive tread wire. Uneven wear indicates tires are misaligned or out of balance. Keep a record of tire rotation. Rotate your tires every 6 months or 5,000 to 8,000 miles.



- **13.** Look for signs of oil leakage on shock absorbers. Testing has shown that most OEM hydraulic and gas charged shock absorbers degrade measurably by 50,000 miles. Worn or leaking shocks should be replaced. We suggest replacing shock absorbers in pairs.
- **14.** Look underneath for loose or broken exhaust clamps and supports. Check for holes in muffler or pipes. Replace rusted or damaged parts. Have exhaust emissions checked regulary in compliance with local laws.



AMRA/MAP believes that this information is accurate and reliable. AMRA/MAP does not endorse, approve or certify such information, nor does it guarantee the accuracy, completeness, efficacy, or timeliness; reliance on it should only be undertaken after a detailed review of the applicable OEM publication(s).

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# Preventive Maintenance Checklist —Selected Items—

Vehicle System or Part	Check Weekly	Check Monthly	Measure or Test	Special Note	NOTE: Replace all items/fluids as directed in the vehicle owners manual
Air Filters (Engine & Cabin)					Inspect and replace when restricted.*
Antifreeze/Coolant			<b>V</b>		Add 50/50% solution when required.***
Battery			<b>v</b>		DO NOT check High Voltage (Hybrid) batteries.*
Belts			V		Inspect for slack between pulleys & signs of wear.*
Brake Fluid			V		Add appropriate type if brake fluid is low.***
Engine Oil					Follow manufacturer's recommended service interval for your drivinig conditions*
Exhaust					Have emissions checked regularly.*
Hoses					Inspect for leaks, wear, softness, cracks or bulges.*
Lights					Keep spare bulbs and fuses in vehicle.
Power Steering Fluid			~		Add approved type when required.***
Struts / Shock Absorbers			~		Some OEM ride control units degrade measurably by 50,000 miles**
Tires			~		Check for wear, foreign objects, etc. Inflate to pressure level recommended on placard.*
Transmission Fluid			<ul> <li>✓</li> </ul>		Add approved type when required.***
Washer Fluid					Pay attention to freezing point of washer fluid.
Wiper Blades					Replace yearly or when smearing or chattering.

\* See vehicle owners manual for replacement and/or service recommendations.

\*\* NOTE: These recommendations are in addition to, not in lieu of, the vehicle manufacturer's recommendations.

\*\*\* If additional fluid is required, check system for possible leaks.

Checked items should be inspected, measured and/or tested by shop with every service visit.

### **Proper Maintenance Helps Extend Vehicle Life!**

Your driving type or vehicle usage may affect the maintenance intervals below.

You should follow the manufacturer's service schedule that best matches your vehicle's operating conditions.

#### Those recommendations may include:

- >> Change your engine oil at the vehicle manufacturer's recommended service interval that matches your vehicle's operating conditions and your driving habits
- >> Check your tire inflation pressure monthly
- » Rotate your tires at the vehicle manufacturer's recommended service interval or every 6 months/5,000 miles
- >> Change the engine air filter annually or when visibly restricted.
- » Inspect Brake System every 12 months/15,000 miles

# Taking the Mystery Out of Maintenance



# **More About MAP**



Formed in 1992 by a group of service providers, manufac-

turers, car companies, industry associations and others who were concerned about the reputation of the automotive repair industry, MAP works to improve communication and trust between the industry and its customers. MAP's purpose is to strengthen the relationship between the motorist and the automotive service and repair industry. MAP has established relationships with many consumer groups and regulatory agencies.