



MAINTENANCE OF FUEL SYSTEM



- Maintaining a fuel system is crucial for the efficient operation and longevity of any vehicle.
1. **Regular Inspection:** Periodically inspect your fuel system for leaks, cracks, or other damage. Pay attention to fuel lines, hoses, and connections.
 2. **Fuel Filter Replacement:** Replace your fuel filter according to the manufacturer's recommendations. A clogged fuel filter can restrict fuel flow and decrease engine performance.
 3. **Fuel Quality:** Use high-quality fuel from reputable sources. Poor-quality fuel can contain contaminants that can damage the fuel system components.
 4. **Injector Cleaning:** Consider having your fuel injectors professionally cleaned to remove carbon deposits and other buildup. This can improve fuel efficiency and engine performance.
 5. **Fuel Tank Maintenance:** Keep your fuel tank clean and free of debris. Sediment and contaminants can settle at the bottom of the tank and get drawn into the fuel system, causing damage.
 6. **Avoid Overfilling:** Avoid overfilling your fuel tank, as this can cause fuel to spill into the evaporative emissions system, leading to issues with the emissions control system.
 7. **Check Engine Light:** Pay attention to the check engine light on your dashboard. If it illuminates, have your vehicle inspected by a qualified mechanic to diagnose any potential fuel system issues.
 8. **Proper Storage:** If storing a vehicle for an extended period, consider using a fuel stabilizer to prevent fuel degradation and varnish buildup in the fuel system.
 9. **Follow Maintenance Schedule:** Follow the manufacturer's recommended maintenance schedule for your vehicle, which typically includes regular fuel system inspections and service.
 10. **Professional Service:** If you're unsure about any aspect of fuel system maintenance or if you suspect a problem, it's best to consult with a qualified mechanic or technician for assistance.



GASOLINE FUEL SYSTEM

S.No	Complaints	Possible Cause	Check (or) correction
1	High fuel consumption	<ul style="list-style-type: none">Air cleaner may be chokedFuel may be leakingWrong idle adjustment	<ul style="list-style-type: none">CleanInspect the plug and the leakAdjust
2	Difficult starting	<ul style="list-style-type: none">Carburetor jet may be cloggedFuel filter cloggedFuel pump pressure not constant	<ul style="list-style-type: none">Service carburetorClean the filterCheck the pressure and rectify the defect
3	Poor acceleration	<ul style="list-style-type: none">Fuel line cloggedFuel filter clogged	<ul style="list-style-type: none">Check the fuel lineClean the filter
4	Lack of power	<ul style="list-style-type: none">Incorrect carburetor settingFaulty inlet manifold	<ul style="list-style-type: none">AdjustReplace

DIESEL FUEL SYSTEM

S.No	Complaints	Possible Cause	Check (or) correction
1	Engine cranks normally but will not start	<ul style="list-style-type: none">Incorrect or dirty fuelNo fuel to nozzle or injection Pump Plugged fuel return	<ul style="list-style-type: none">Flush system and use Correct fuelCheck for fuel to nozzles
2	Rough idle with abnormal noise and smoke	<ul style="list-style-type: none">Injection pump timing offNozzle trouble	<ul style="list-style-type: none">Check return, clean RetimeCheck in sequence
3	Idle correct, but misfires as throttle opens	<ul style="list-style-type: none">Plugged fuel filterInjection-pump timingIncorrect or dirty fuel	<ul style="list-style-type: none">Replace filterRetimeFlush system and use correct fuel
4	Combustion noise with excessive black	<ul style="list-style-type: none">Timing off	<ul style="list-style-type: none">Reset



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smoke	<ul style="list-style-type: none">✚ Injection-pump trouble✚ Nozzle sticking open	<ul style="list-style-type: none">✚ Replace the pump✚ Clean or replace
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COMMON PROBLEMS

Possible Cause	Check (or) correction
<ul style="list-style-type: none">✚ Clogged Carburetor	<ul style="list-style-type: none">✚ Disassemble and clean
<ul style="list-style-type: none">✚ Defective fuel pump	<ul style="list-style-type: none">✚ Repair or replace
<ul style="list-style-type: none">✚ Clogged fuel filter	<ul style="list-style-type: none">✚ Replace
<ul style="list-style-type: none">✚ Choke wire working erratically.	<ul style="list-style-type: none">✚ Adjust
<ul style="list-style-type: none">✚ Float level out of adjustment.	<ul style="list-style-type: none">✚ Adjust
<ul style="list-style-type: none">✚ Clogged fuel pipe.	<ul style="list-style-type: none">✚ Clean or replace
<ul style="list-style-type: none">✚ Clogged fuel tank outlet.	<ul style="list-style-type: none">✚ Clean