



Complete Tune-Up for MGB with Zenith Stromberg Carburetor

DATE STARTED _____ MILEAGE _____

DATE COMPLETED _____ MILEAGE _____

Estimated Completion Time: 4 Hours

PRELIMINARIES

- _____ Test Drive - How quickly does the engine reach operating temperature? There must be at least half a tank of gasoline.
- _____ PCV System - check for leaks between head & manifold, manifold & carbs, manifold fittings, throttle shafts
- _____ ELC System – inspect all hoses, replace as necessary, stall engine with Anti-run-on valve (where fitted)
- _____ Change oil and filter, if necessary.

ENGINE

- _____ Check compression: 1 _____ 2 _____ 3 _____ 4 _____
- _____ Clean (or replace) CHAMPION N-9Y and gap plugs to 0.035" or: _____
- _____ Change Thermostat and gasket, if necessary.
Thermostat Temp 195° Coolant Temp: _____
- _____ Remove Valve Cover (Change gasket if necessary)
- _____ Torque head to 50 ft-lbs (oiled and hot)
- _____ Adjust valves to 0.013" (18V engines →)
- _____ Start engine and examine camshaft movement/noisy valves:
- _____ Recheck Compression: 1 _____ 2 _____ 3 _____ 4 _____
- _____ Replace Valve Cover
- _____ Tighten fan belt.

IGNITION SYSTEM

- _____ Remove and clean cap and wires, test wire resistances:
Coil _____ 1 _____ 2 _____ 3 _____ 4 _____
- _____ Remove distributor and disassemble. Inspect and clean each part. Fit new points, condenser, LT lead.
- _____ Inspect advance limiting finger: Total advance is: _____°
- _____ Remove Coil to wash, inspect, and test
- _____ Refit distributor coated with grease, refit cap and wires

CARBURETOR

- _____ Check fuel delivery - change filter if necessary.
- _____ Remove suction chamber and air piston; replace diaphragm and O ring
- _____ Replace needle if necessary
- _____ Remove choke assembly; surface mating flange; clean and exercise; boil to calibrate heat mass
- _____ Set lever spacing at 0.095"; set pin spacing in carburetor to 0.025"

TUNE

- _____ Check dwell to expect 60° (25D) or 51° (41427 modern – 45D). No dwell check on electronic ignition
- _____ Adjust timing to 32° at full mechanical advance (3-4,000 rpm) vacuum disconnected.
- _____ While rising to operating temperature, set fast idle at 1600 maximum (spring loaded screw)
- _____ Once hot (cam idle off) set idle speed with locknut screw at 850 rpm.
- _____ Set throttle cable freeplay while engine is hot and idling.
- _____ Replace air filter if necessary.
- _____ Engine will not rev above 3500 without air cleaner fitted.
- _____ Test Drive