



UNIVERSITY MOTORS ONLINE

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Complete Tune-Up for MGB with Zenith Stromberg Carburetor

OWNER _____ YEAR _____ MODEL _____

MILEAGE _____ DATE _____ TECHNICIAN _____

Estimated Completion Time: 4 Hours

PRELIMINARIES

- _____ Test Drive - How quickly does the engine reach operating temperature?
There must be half tank of petrol.
- _____ 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) and 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: C _____ 1 _____ 2 _____ 3
_____ 4 _____
- _____ Remove distributor, disassemble, inspecting and cleaning 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

CARBURETTERS

- _____ 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 carburetter to 0.025"

TUNE

- _____ Check dwell to expect 60° (25D) or 51° (41427 modern – 45D)
- _____ 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.
- _____ Test Drive