

UNIVERSITY MOTORS

Complete MGB Tune-Up

SU Carburetters

By John H Twist

OWNER _____ YEAR _____ MODEL _____

MILEAGE _____ DATE _____ TECHNICIAN _____

Estimated Completion Time: 5 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, clean Smiths PCV valve and replace diaphragm.
- _____ 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 180° / 195° Coolant Temp:
- _____ Remove Valve Cover (Change gasket if necessary) and torque head to 50 ft-lbs (oiled and hot)
- _____ Adjust valves to 0.015" (→ 18GK engines) or 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

- _____ Remove suction chambers, float bowl lids, clean within and without. Clean bodies and linkages.
- _____ Match pistons to suction chambers; ensure either damper or suction chamber is vented.
- _____ Check fuel delivery - change filter if necessary.

TUNE

- _____ Check dwell to expect 60°
- _____ Adjust timing to 32° full mechanical advance (about 3-4,000 rpm) vacuum disconnected.
- _____ Allow to rise to operating temperature. Disconnect interconnecting linkages. Set air flow and mixture.
- _____ Engine off, adjust throttle interconnecting linkages.
- _____ Restart and set fast idle to 1600 maximum with air flow equal.
- _____ Totally disassemble air cleaners, wipe clean, and replace filters if necessary.
- _____ Test Drive

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