

UNIVERSITY MOTORS

Complete MGA Tune-Up

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, and throttle shafts
- _____ Change oil and filter, if necessary.

ENGINE

- _____ Check compression: 1 2 3 4
- _____ Clean (or replace) CHAMPION N-5 and gap plugs to: Use 0.035" as a STD gap
- _____ Change Thermostat and gasket, if necessary. Thermostat Temp: Coolant Temp:
- _____ Remove Valve Cover (Change gasket if necessary) and torque head to 50 ft-lbs (oiled and hot)
- _____ Adjust valves to 0.015" or _____
- _____ 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.
- _____ 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.
- _____ Check fuel delivery - change filter if necessary.
- _____ Disassemble air cleaners, cleanse, and immerse (wire style) in oil

TUNE

- _____ Check dwell to expect 60°
- _____ Adjust timing to 32° full mechanical advance, vacuum disconnected (about 3-4,000 rpm)
- _____ Allow to rise to operating temperature. Disconnect interconnecting linkages. Set air flow and mixture.
- _____ Engine off, adjust choke linkages so that the jets drop simultaneously.
- _____ Restart and set fast idle to 1600 maximum.
- _____ Replace air cleaners – use 5/16” start washers and new bolts!
- _____ Test Drive

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