



## The Complete TC / TD / TF Tune - Up

DATE STARTED \_\_\_\_\_ MILEAGE \_\_\_\_\_

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Estimated Completion Time: 5 Hours

### PRELIMINARIES

- \_\_\_\_\_ Test Drive - How quickly does the engine reach operating temperature? There must be half tank of petrol.
- \_\_\_\_\_ Crankcase Ventilation System
- \_\_\_\_\_ Test for air 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 L-86 or N-5 and gap plugs to 0.035" unless fitted with original coil (0.025")
- \_\_\_\_\_ Inspect cylinder head to ensure reach: 1/2" = L 3/4" = N
- \_\_\_\_\_ Change Thermostat and gasket, if necessary. Thermostat Temp: \_\_\_\_\_  
Coolant Temp: \_\_\_\_\_
- \_\_\_\_\_ Remove Valve Cover (Change gasket if necessary).
- \_\_\_\_\_ Torque head to 45 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 (gasket compound head to gasket / grease gasket to valve cover)
- \_\_\_\_\_ Tighten fan belt.

## IGNITION SYSTEM

- \_\_\_\_\_ Remove and clean cap and wires, test wire resistances  
Coil \_\_\_\_\_ 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_
- \_\_\_\_\_ Remove distributor, disassemble, inspecting and cleaning each part, fit new points & condenser.
- \_\_\_\_\_ Set point gap to: Symmetric 0.010-0.012” Asymmetric 0.010-0.012” High Lift 0.014-0.016”
- \_\_\_\_\_ Remove Coil to wash, inspect, and test
- \_\_\_\_\_ Refit distributor coated with grease, refit cap and wires

## CARBURETOR

- \_\_\_\_\_ Remove suction chambers, float bowl lids, clean within and without. Clean bodies and linkages.
- \_\_\_\_\_ Check fuel delivery - change filter if necessary.
- \_\_\_\_\_ Disassemble air cleaner, cleanse, and immerse (wire style) in oil

## TUNE

- \_\_\_\_\_ Check dwell: Symmetric 41 - 49° (45°) Asymmetric 45 – 53° (49°) High Lift 57 – 63° (60°)
- \_\_\_\_\_ Adjust timing to 32° maximum mechanical advance or ZERO° static.
- \_\_\_\_\_ 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 cleaner oil mesh or fill oil bath
- \_\_\_\_\_ Test Drive