



SERVICE DIVISION

DEALER TRAINING

AID # S1026

SUBJECT: ZENITH STROMBERG AUTOMATIC CHOKE CARBURETORS

MODEL: ALL MODELS

AUSTIN

JAGUAR

MG

LAND ROVER

TRIUMPH

P R E F A C E

The information contained in this booklet is provided as an easy reference guide for technicians. More detailed information is available in the appropriate Workshop Manual.

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CARBURETOR TYPE C.D.S.E.T.

The C.D.S.E.T. is the same as a C.D.S.E. carburetor with the addition of a thermostatically controlled choke mechanism (AUTOSTARTER).

The three requirements the Autostarter has to meet are as follows:

1. A supply of additional fuel for cold starting and during the warm-up period.
2. A fast idle on starting and during the warm-up period.
3. A maximum fuel enrichment and maximum fast idle throttle opening.

AUTOMATIC CHOKE

CHECK AND ADJUST

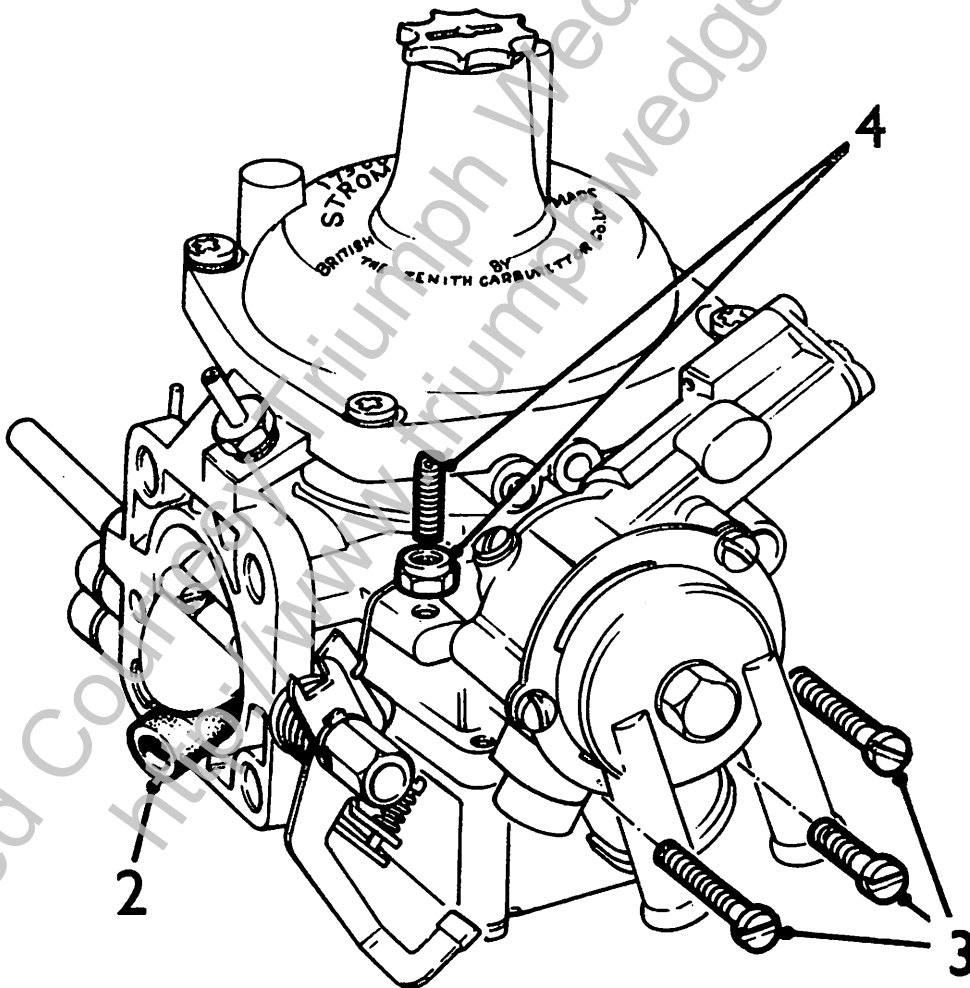
NOTE: Prior to removal of a faulty choke unit, the following checks should be carried out on the vehicle.

1. Check alignment of datum mark on side of heat mass with datum mark on choke unit body.
2. Open throttle and check that head of fast idle pin is flush with outer edge of guard.
3. Check three screws securing choke unit to carburetor body for tightness 40 - 45 lb/in. (46 - 52 kgf/cm).

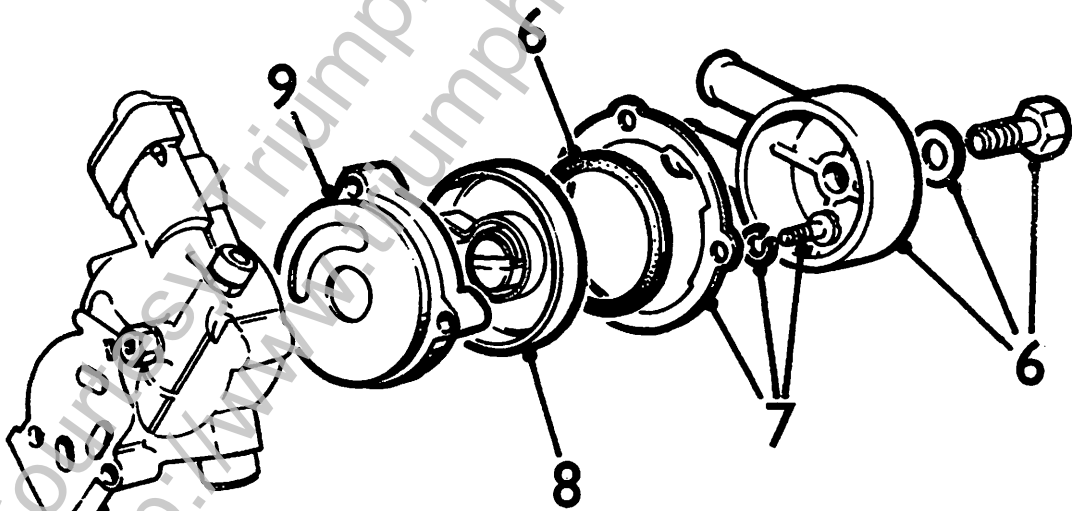
REMOVE AND REFIT

Removing

1. Remove carburetor(s) from engine.
2. Open throttle and prevent from closing with suitable temporary stop (piece of plastic tube or soft wood) in throttle bore.
3. Remove three screws securing choke unit to carburetor body.
Remove choke unit and gasket - discard gasket.
4. Remove throttle stop screw and locknut.



5. Clean face of carburetor to which choke unit is fitted.
6. Remove central bolt, washer, water jacket and sealing ring from choke unit.
7. Remove three screws and washers securing clamp ring to choke unit - lift off clamp ring.
8. Carefully remove finned aluminum heat mass ensuring temperature sensitive coil attached is not strained.
9. Remove heat insulator.



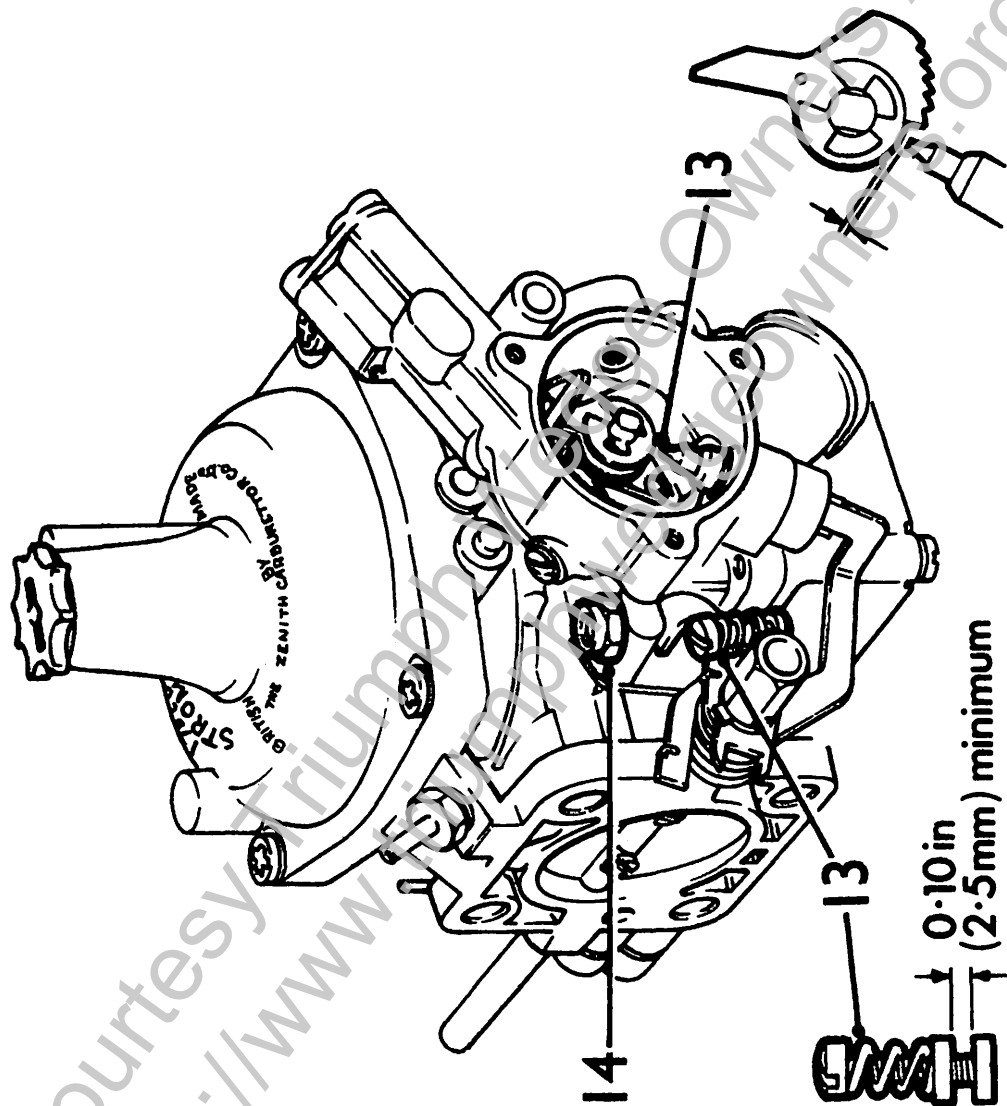
Refitting

10. Fit new gasket to carburetor. Do not use sealing compound.
11. Fit choke unit to carburetor tightening the three screws progressively and evenly to a torque of 40 - 45 lb/in. (46 - 52 kgf/cm).
12. Fit throttle stop screw and locknut.
13. Check clearance between fast idle pin and base circle of cam is as follows:

Open throttle and remove temporary stop - allow throttle to close normally. Screw down idle speed screw until the clearance between the lugs is 0.10 in. (2.5 mm) minimum. Lightly rotate thermostat lever with finger in an anticlockwise direction to the fully 'off' position.

14. If necessary, adjust throttle stop screw until correct clearance is obtained. Using the nut, lock the throttle stop screw securely and recheck the clearance as detailed above.
15. Replace heat insulator with thermostat arm protruding through slot provided.
16. Replace finned aluminum heat mass ensuring proper engagement of thermostat arm with rectangular loop of temperature sensitive coil. To check engagement, rotate heat mass 30° to 40° only in both directions. In each case the unit should spring back to its original position.

CAUTION: On no account should the heat mass be rotated more than 30° to 40° as the coil could be permanently damaged.



	<u>ENGINE IDLE SPEED</u>	<u>FAST IDLE GAP</u>	<u>AUTO CHOKE NEEDLE</u>
TR7 CALIFORNIA ONLY	800 ± 100	.020"	T ³
SPITFIRE & MIDGET (California Only)	800 ± 100	.035"	D4A
JAGUAR XJ6	750	.035"	A2
MGB & MARINA	850 ± 100	.025"	K

17. Replace clamp ring and three screws and washers - do not tighten.
18. Rotate heat mass in anticlockwise direction until index mark on outer edge is aligned with datum mark on body of choke unit.
19. Hold heat mass with index mark correctly aligned and tighten three screws securing clamp plate to a torque of 8 - 10 lb/in. (9 - 11.5 kgf/cm).
20. Replace sealing ring and water jacket ensuring that water pipe connections are correctly orientated.
21. Replace central bolt and aluminum washer and tighten to a torque of 65 - 75 lb/in. (72 - 84 kgf/cm).
22. Reset idle speed screw.
23. Repeat on other carburetor if fitted.
24. Refit carburetor(s) to engine as detailed in Workshop Manual.

