



Instructions

Please read carefully before proceeding to test your vehicle. The chart is divided into 3 sections and at the beginning of each one a 'Red Operation' is given. Read the correct 'Red Operation' of the carburettor indicated in words and letters. These letters are only an indication when pointing attention to what the true appearance is the property owners. Read the Colortune Instructions for use carefully. Then carry out the 3 tests as necessary. Read the notes in the notes given. i.e. correct any fault in the first section, Test 1, before trying Test 2 and correct any fault in the second before trying Test 3.

Do not use Colortune for extended periods of high rpm as the fuel range is wider than that of a running plug. This is in order to reduce fouling of the glass, including assessment of the combustion time. Use Colortune particularly in idling e.g. idling at start and high performance engines.

On two stroke engines the colours may have a slight red tinge. However the yellow will always be brighter than the blue as on other engines.

TEST 1

Adjust carburettor mixture to normal engine idle speed to show yellow flame initially. Then gradually to achieve burnson blue correct.

Correct appearance of combustion during test

Bright light emission - yellow

Light blue emission diminishes sharply - burnson blue

Incorrect appearance and effect of faults during test

Steps	Type of Fuel System	Fuel System Fault	Notes
1 At idle Yellow cannot be achieved initially. In severe cases engine will not run steadily at low speeds.	Fixed choke or carburettor with separate idle circuit. Variable choke (CO, SU etc.)	Blocked idle fuel jet or idle air bleed jet not covered firmly. Needle shoulder not flush with piston underside (coil). Does not apply to adjustable needle type COs. Piston incorrectly fitted (or sticking down) or flooding due to adjustment but some yellow should be visible.	1. Air leak at carburettor flange or engine manifold flange if confined to some cylinders. Fault in crankcase ventilation system. 1 and 2: Slight variation between cylinders is common at idle due to imperfect manifold design - often issue in all cylinders if engine remains stable at idle and low speeds. Tests on multiple carburettors: if confined to cylinder fed by one carburettor check air flow balance and re-adjust mixture. If mixture changes when returning to idle after an increase in idle speed, this is possibly due to worn throttle spindle on fixed choke usually accompanied by slight increase at 1000 - 1500rpm. On variable choke it confirms sticking piston.
2 At idle Blue cannot be achieved - yellow visible regardless of adjustment.	Fixed choke Sole or idle fuel jet with separate idle circuit. Variable choke	Blocked idle air bleed or idle fuel jet not covered firmly. Some or intermittent yellow indicates very high float level allowing main circuit to feed too early. Needle shoulder not flush with piston underside (high). Does not apply to adjustable needle type COs. Piston incorrectly fitted (or sticking down) or flooding due to faulty float valve. Very occasional yellow flashes which can occur at idle due to engine 'shake' should be ignored, but check ignition timing for over advance and check engine mountings. If above seems up instructions precisely.	2. Cold start enrichment device not functioning correctly. Barometric needle jet wear - CO and SU types.
3 At idle Yellow appears after prolonged idle, reverting to blue at idle after a short period at 3000rpm.	All types	Slight leak past float valve. (Alternatively on emission CO and SU types only - resulting from high carburettor temperature, no remedy unless the insulator block is not fitted between the carburettor and the manifold).	

TEST 2

Gradually increase engine speed by opening the throttle.

Correct appearance of combustion during test

Burnson blue

1000rpm

Light emission increases slightly - lighter blue (sometimes with a pinkish hue).

2000rpm

3000rpm

Incorrect appearance and effect of faults during test

Steps	Type of Fuel System	Fuel System Fault	Notes
4 At 1000 - 1500rpm Yellow flame appears.	Fixed choke or carburettor with separate idle circuit. Variable choke (CO, SU etc.)	Restricted idle air bleed circuit. Worn metering needle, inspect for 'scuff' marks at thickest end of taper. See Note 4.	4. CO and SU types fitted with a 'bush' light spring loaded needle. Wear may well become noticeable at 40,000 miles approx. Wear patterns varies depending on vehicle use. Typical symptoms: (A) Idle mixture control with jet covered in further than usual. (Normal position 2-3 turns out from flush with casting) accompanied by engine instability at 50-60mph and during acceleration. (B) As fault 4. (C) As fault 5.
5 At 1000 - 1500rpm Light blue and engine unstable.	Fixed choke or carburettor with separate idle circuit.	Restricted idle fuel circuit.	
6 At 1500 - 1800rpm Intermittent yellow flame.	Fixed choke	Main circuit feeding in 'bursts' observe with air cleaner removed and if confirmed lower float height marginally e.g., 1/8 inch.	
7 At 1250 - 1400rpm Constant yellow flame.	CO Stromberg type only	Hole in diaphragm. Large split will result in rich mixture at all speeds above idle.	
8 At 1350 - 3000rpm Some cylinders incorrect.	Twin and multiple carburettors	Incorrect air balancing can result in one carburettor being set incorrectly at idle to achieve blue in all cylinders. Shows up as error when speed is increased. This will also cause one mixture adjustment to be vague at idle and others to be very sensitive.	
9 At 1400 - over 3000rpm White/blue and engine unstable, improves as speed rises.	Fixed choke Variable choke	Float level too low. Worn metering needle and jet - replace both. See Note 4.	5. CO and SU types for other carburettors where one mixture adjustment affects the whole speed range. Air leak in the manifold will have a greater effect at idle when manifold depression is high - this results in the carburettor being set 'rich' to compensate at idle and a rich mixture will then be observed at higher speeds. Thus an air leak with this type of carburettor can cause a rich mixture above idle speed.
10 At any speed above 1400rpm White/blue and engine unstable, does not improve as speed rises.	Fixed choke	Blocked main jet possibly water in fuel system.	10. Slight restriction in the main circuit or incorrect main jet may only be noticeable at high speeds with the engine under load - this would not be detected using Colortune.
11 At 2400 - over 4000rpm Yellow appears at high rpm only.	All types	A severely contaminated air cleaner will show at higher speeds using Colortune. Much more regular changing is advised as an air cleaner in this condition will have a pronounced effect on fuel consumption (a visual check is often deceiving).	

TEST 3

Rapidly increase engine speed by opening the throttle and close at 3000rpm.

Correct appearance of combustion during test

Burnson blue

1000rpm

1500rpm

2000rpm

2500rpm

3000rpm

Dulls as engine speed slows at 1000rpm again

1000rpm

Incorrect appearance and effect of faults during test

Steps	Type of Fuel System	Fuel System Fault	Notes
12 At any speed Yellow not visible.	Fixed choke Variable choke	Accelerator pump inoperative: check for blocked pump jet or seized 2000psi bleed on low speed. Where accelerator pump has adjustable travel, set to minimum stroke which gives smooth acceleration and yellow combustion flame. Insufficient oil in air valve damper or damper bush is worn. (Engine oil is usually advised for topping up).	12. On simple carburettors which have no acceleration enrichment device it may be necessary to run slightly richer above idle speeds if 'flat spots' or hesitation is noticeable during acceleration. With emission controlled carburettors a yellow flame may be less evident.

Gunsons Colourtune Manual

Wolfgang Guggemos

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the development of river basin management plans is important for the sustainable management of water and is part of Türkiye's implementation of the European Union environmental acquis dai is strengthening Türkiye's capacity to prepare river basin management plans for six out of the 25 river basins in the country the plans summarise the