



### 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 'Colortune' is given. Read the correct Colortune at the correct engine speed. The Colortune is indicated in words and colour. Please ensure you only use Colortune when engine conditions do not allow the true appearance to be properly viewed. Read the Colortune instructions for use carefully. Then carry out the 3 tests, as necessary, that appear in the order given. i.e. correct any fault in the first section, Test 1, before trying Test 2 and correct any fault in this section 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 flame. Use Colortune particularly at idling e.g. parked at red 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 CO). 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 if 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 or carburettor 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 CO). 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

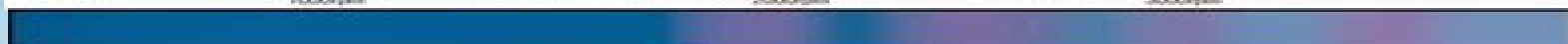
Burnson blue

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 - 1600rpm Intermittent yellow flame.	Fixed choke	Main circuit feeding in 'spike' 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 spilt will result in rich mixture at all speeds above idle.	
8 At 1350 - 3000rpm Some cylinders incorrect.	Twin and multiple carburettors	Inaccurate 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

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

1500rpm

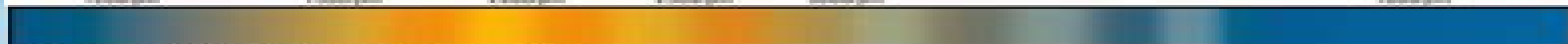
2000rpm

2500rpm

3000rpm

Dulls as engine speed stabilises 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 float. 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

**Colin Campbell**



## **Gunsons Colourtune Manual:**

**Weber Carburetors** Verlon P. Braden, 1988-10-21 Learn how Webers work and what to change for improved performance Comprehensive chapters include carburetion basics and Weber carburetor design selecting and installing correct Weber setup for your engine tuning for maximum performance and rebuilding Weber carburetors Select install and tune Weber sidedraft and downdraft carburetors for performance or economy Also includes theory of operation and design troubleshoot and repair     **Motor Cycling and Motoring** ,1984     **The Commercial Motor** ,1977     **The Autocar** ,1982     Marine Inboard Engines Louis Goring, 2005-01-01 This very practical book begins by describing how the various parts of both marine diesel and gasoline engines work It then goes on to show the basic service maintenance necessary for both the general running and winter layup and pinpoints common faults and suggests remedies     *Tuning for Economy* Colin Campbell, 2012-12-06 This book is for the typical motorist who as shown in the first chapter only looks at his engine when he remembers to check the oil level or has noticed a tendency to misfire under load He could be aware that the car no longer gives the good mpg it gave when he bought it as an immaculate used car and could be wondering what to do about it This book will tell him The richer motorists in their new Jaguars and Mercedes the ones that flash past us on the Motorway never worry about fuel consumption This book is not for them Here then is an explanation of the principles of tuning followed by a simple step by step DIY tuning schedule A hard look is taken at the many magical economy devices offered in the Press Two of these are shown to stand up to critical examination and honest testing namely some electronic ignition kits and the Kenlowe electric fan Two more devices show marginal gains in economy Finally we offer advice on how to approach the economy driving techniques of the successful Economy Rally drivers Since we live in such a cynical age we find it necessary to state that we have no connections with nor have received any financial inducements from any of the recommended firms making tuning equipment or economy aids We must thank these companies for all the useful information they have supplied A full list is given in the Appendix     Trouble Shooting and Maintenance of Boat Engines Peter Bowyer, 1983     *The Motor* ,1970-11     **Engineering** ,1969

Gunsons Colourtune Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Gunsons Colourtune Manual : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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web the first two equations have been balanced for you alpha particle  $\alpha$  2 4 beta particle  $\beta$  gamma ray  $\gamma$  proton p neutron n 0 positron  $\beta^+$  0 1 30 1 65 1 2 63 2 15 0 30 0 65 30 9 29 2 2 12 6 15 32 30

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web we can write a balanced nuclear equation for this reaction as let s do a practice example identify the product x by writing a balanced nuclear equation  $^{137}_{55}\text{Cs} \rightarrow ^{137}_{56}\text{Ba} + x$  because the mass number is the same on both sides of the equation x must have a

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web identify the missing particle in the following nuclear reaction  $^1_0\text{n} + ^{235}_{92}\text{U} \rightarrow ^1_0\text{n} + ^{137}_{52}\text{Te} + ^{4}_2\text{He} + ^{97}_{38}\text{Sr} + ^{96}_{40}\text{Zr} + ^{97}_{40}\text{Zr}$

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web answer 4 correct in the reactants and products must be the same part b what is the value of in the following nuclear reaction 6 5i 9 express your answer as an integer hint 1 how to approach the problem use rule 2 the total of the subscripts atomic numbers mathematically this can be written as answer

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