

SU CARBURETTER DIAGNOSTIC CHART

SYMPTOM or FAULT	POSSIBLE CAUSE																								
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
Bad tickover	*				*			*	*	*	*	*	*	*	*			*		*					*
Stalling at idling when cold		*												*			*					*			
Stalling at idling when hot	*				*	*	*	*	*	*	*	*	*	*		*		*							
Bad starting when cold		*																					*		
Bad starting when hot	*				*	*	*	*	*	*	*	*	*	*	*	*		*				*			
Lack of power throughout rev range		*			*	*	*	*	*	*	*	*	*	*	*		*	*		*					
Lack of power at certain revs							*	*													*				
Hesitation when throttle opened quickly			*	*																					
Lack of power at low revs	*	*			*	*		*			*	*	*	*	*										
Lack of power at high revs	*	*				*		*						*	*			*	*						
Flooding	*				*					*	*	*	*	*	*			*							
Fuel leaking from underside of jet											*	*	*												*
Fuel leaking from float chamber																									
High fuel consumption	*					*		*	*	*	*	*	*	*	*			*			*			*	
Rich mixture					*		*	*	*	*	*	*	*	*	*			*			*			*	
Weak mixture							*	*	*				*	*					*	*	*	*			

Key to 'POSSIBLE CAUSE' section

A	Rich mixture	N	Incorrect setting of mixture nut
B	Weak mixture	O	Sticking choke control (in down position)
C	Dashpot oil too thin	P	Tickover screw needs resetting
D	Dashpot oil level too low	Q	Choke controlled fast tickover needs adjustment
E	Sticking piston (won't drop properly)	R	Air cleaner clogged needs replacing
F	Sticking piston (won't rise properly)	S	Fuel pump giving inadequate supply
G	Sticking piston (won't go up or down)	T	Air cleaner removal weakening mixture
H	Jet out of centre	U	Incorrect needle fitted
I	Bent needle	V	Air leaks, i.e. throttle spindle, manifold gaskets, etc
J	Dirty piston and suction chamber	W	(UNKNOWN)
K	Leaking float needle valve	X	Leaking jet or petrol pipe seals
L	Punctured float	Y	In case of twin carbs, balance is incorrect in terms of mixture or air flow
M	Incorrect fuel level		