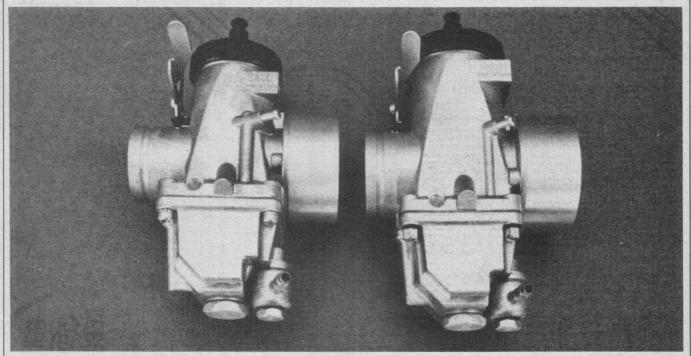
## Amal Mark II **Technical Manual**



New Mark II carb. Right side, 38mm. Left, 30mm.

EVEN THOUGH THE Mark II is a breakthrough, it still has to be tuned the same way as the Concentric, or even the stately Monobloc. Refer to these sections for tuning procedures and jetting specifications. The same jets are used throughout, so you don't have to throw away your box of old jets. The only new jets you'll need, will be the new high speed air bleeds, and there are only three of these.

Series numbers in the new Mark II will be similar to the Concentric numbering system. All they've done is add a "2" in front of the basic numbers. The 2600 Series Mark II will come in 22, 24 and 26mm bore. The 2900 Series in 28, 30, 32 and 34mm, while the 2000 Series will be 36, 38 and 40 millimeters across the throat. This 40 should be a highly sought after number.

Probably the single biggest change to the Mark II (other than spiffy looks) is the first ever "two pilot" system. Now the tuner has a choice of not only what pilot jet to use, but where he can put it. It can be located near the front or the back of the carb, depending on the need of the motor. Two stroke motors (with poor pressure drops at very low rpm) will benefit from a location closest to the venturi. The pilot hole that isn't being used is simply blocked off. Naturally, standard pilot jets are used.

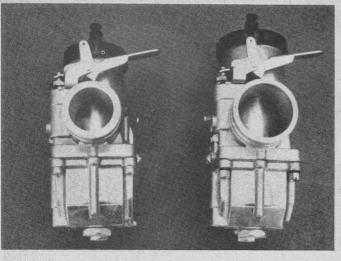
Other features of the Mark II include the following, in no particular order:

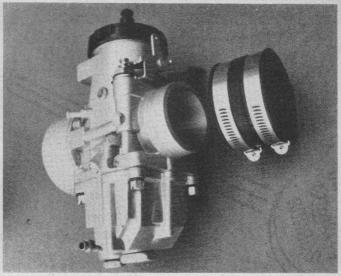
- 1. Plastic cap, so you don't have to fart around with screws.
- 2. 5 position needle, for finer tuning without changing the needle.
- 3. Thicker slide. That should eliminate the breakage problem of the past.
- 4. Cold start jet for choke. Uses a standard pilot jet. (larger)
- 5. A high flow bell that increases
  - 6. Removable high speed air bleed

jets for finer tuning.

- 7. Choice of floats. (But, you've had this all along and didn't know it)
- 8. A stabilizer bar and mounting holes for multi-cylinder bikes. Keeps the carbs locked in line.
- 9. Two float tubes vented high up for cleaner carbs. If there is any leakage, it won't dribble all over the motor like in days of old.
- 10. Lighter weight. The new carb is aluminum and weighs 134 pounds, while the Concentric weighed 21/4 pounds.

Other than the above reasons, the whole carb looks like it was made much more carefully than Amals of old. We're going to be trying some of them soon and checking results on the dyno and on the track. We'll keep you posted. Oh ves, they'll be coming as standard equipment on several bikes, including Bultaco and Montesa.

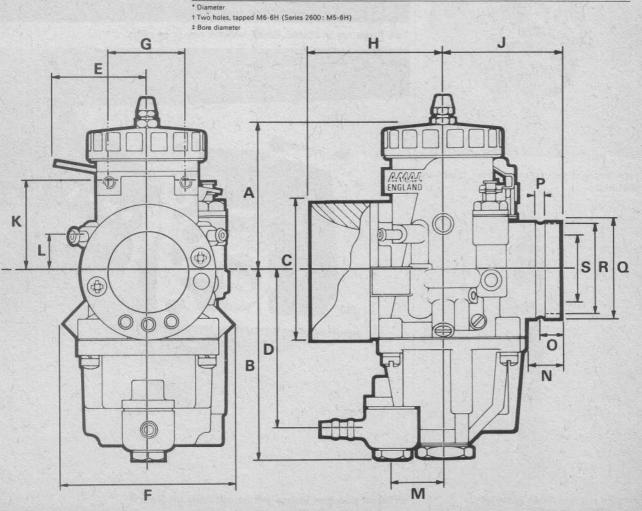


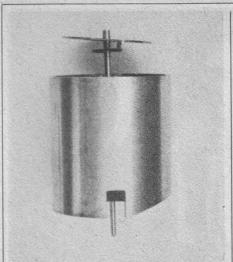


All Mark II carbs will be rubber mounted for protection against frothing from vibration.

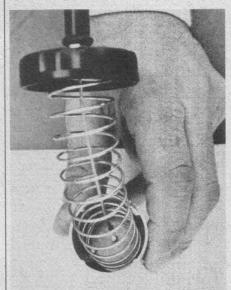
## **Dimensions**

		Α	В	C.	D	E	F	Gt	- н	J
Series 2600	mm	60	75	52	62	40	66	27	53-5	49.5
Series 2900	mm	62	79-5	58	66-5	40	72-5	32	56	49.5
Series 2000	mm	72	82	62	69	40	75-5	38	58-5	49.5
	Y Y	K	L	М	N	0	Р	Q*	R*	St .
Series 2600	mm	33	19-5	22-5	15	10	4	35	33	22, 24 or 26
Series 2900	mm	38	15	22-5	15	8	4	40	38	28. 30, 32 or 34
Series 2000	mm	48	15	22-5	15	8	4	45	43	36, 38 or 40

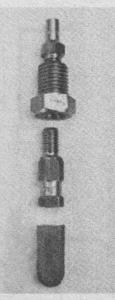




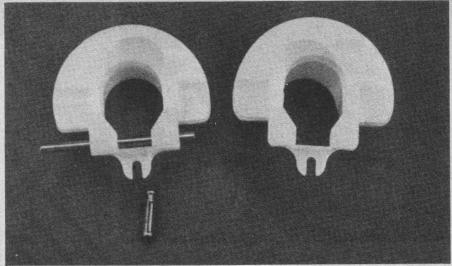
Needle, clip and slide from 36mm carb.

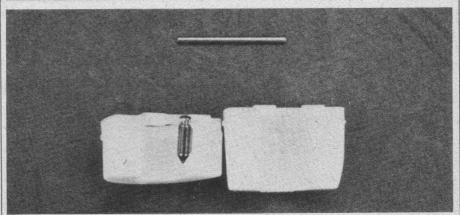


New cap and spring/clip combo look very Mikuni-ish.

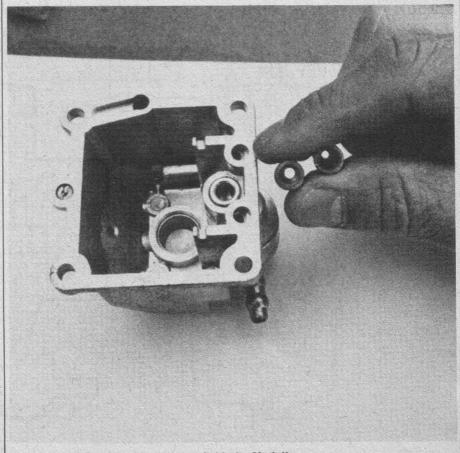


Needle jet, jet holder, main jet and screen—in order.

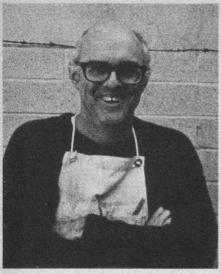




Two floats are available. Small volume one is on right.



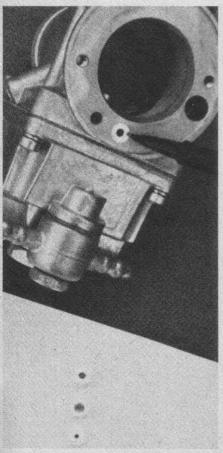
Different size flow fittings will be available for Mark II.



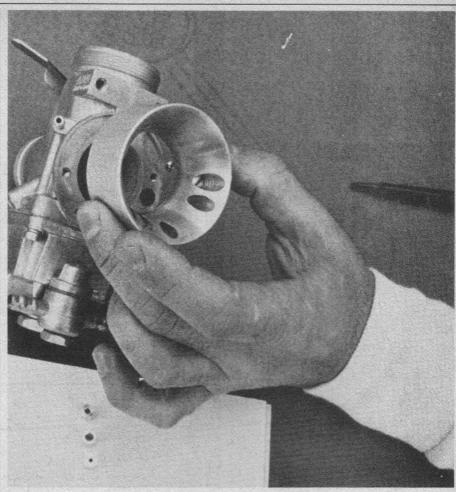
Norm.



Jerry.



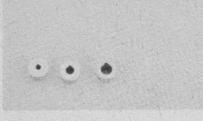
Removable high speed air bleeds.



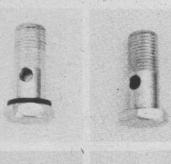
New bell holds the high speed air bleeds in place.



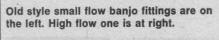
Burak-Bye offers this racing bell as an accessory for the Mark II as well as the Concentric.



High speed air bleeds. Richest on the left, leanest on the right.











Two stroke main jet holder on left; four stroke on right.









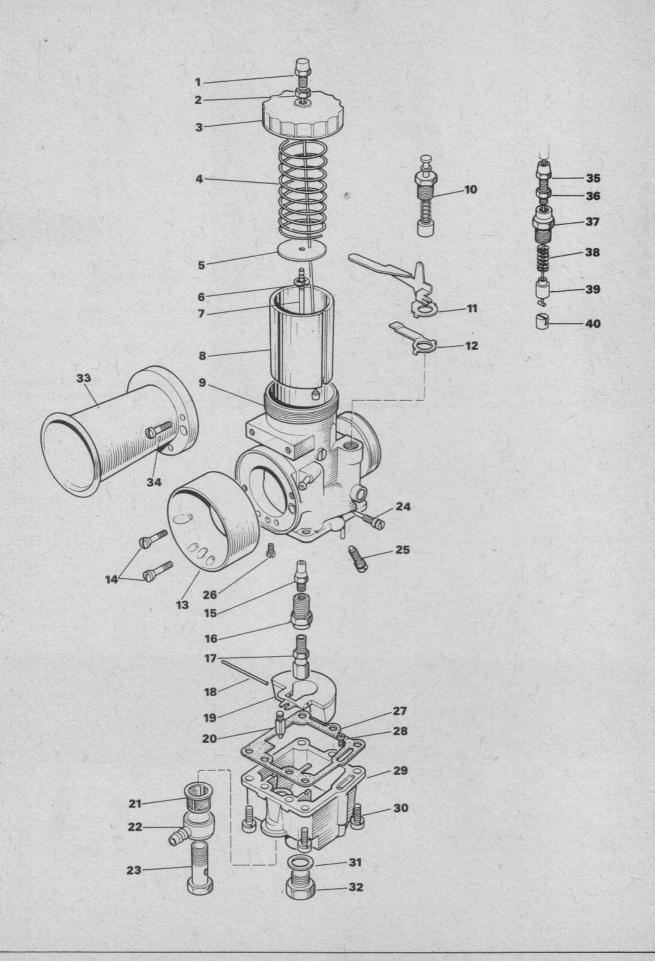
Two stroke needle jet on left; four strokes on right.

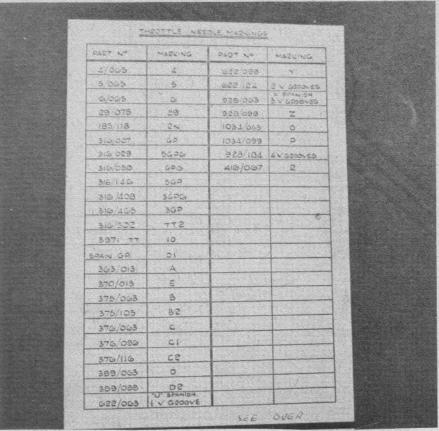
		50	PLUS	AND	MINUS	3/400
55		150	4			13/4 CC
160		600	4	- 1	JF 15	3 cc
620		1000	a.			5 c.c
1100		1500	a		200	71/2 C.C
1600		2000	d		450	7/2 c.c
**						EMENTS
						237.00
	55	- 150	IN		CC.	
	55 160	400000000000000000000000000000000000000	IN IN	10	cc.	
		- 600	District Co.	10	cc.	
	620	- 600	IN IN	10	c.c.	
	620	- 600 - 1000	IN IN	10 20	c.c.	

New line of jets is bench flowed for markings.

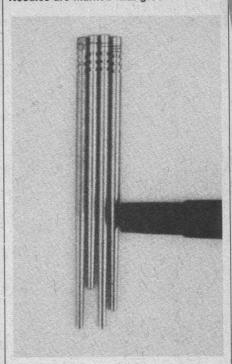
## Service Parts for Mark 2 Amal Concentric Carburetors

Key to illustration	Component		Carburetor Series 2600	Carburetor Series 2900	Carburetor Series 2000	
1	Cable adjuster		4/035	4/035	4/035	
2	Cable-adjuster locknut		5/077	5/077	5/077	
3	Mixing-chamber top (standard)	In the East of the	2622/064	2928/064	2036/064	
Not shown	Cable ferrule for use with mid-cable a	adjuster	6/132A	6/132A	6/132A	
Not shown	Mixing-chamber top for ferrule		2622/120	2928/120	2036/120	
4	Throttle-slide spring		2622/061	2928/061	2036/061	
5	Needle retaining disc		2622/071	2928/071	2036/071	
6	Needle clip		2622/067	2622/067	2622/067	
7	Throttle needle (paired with 2-cycle i	needle jet below)	2622/063	2928/063	2036/063	
7	Throttle needle (paired with 4-cycle	needle jet below)	2622/124	2622/124	2622/124	
7	Throttle needle (for alcohol only)		2622/125	2928/125	2036/125	
8	Throttle slide (specify cutaway)		2622/060	2928/060	2036/060	
9	Carburetor body assembly		*			
10	Cold start plunger assembly (lever op		2622/079	2622/079	2622/079	
11	Cold start lever and bracket assembly		2622/075	2622/075	2622/075	
12	Cold start click spring		2622/087	2622/087	2622/087	
13	Air intake adaptor		2622/062	2928/062	2036/062	
14	Air intake adaptor securing screws		2622/073	2622/073	2622/073	
15	Needle jet (prefered for 2-cycle engir	nes)	622/079	2928/079	622/079	
15	Needle jet (prefered for 4-cycle engir	ies)	622/122	2928/122	622/122	
15	Needle jet (for alcohol only)		622/100	2928/100	622/100	
16	Jet Holder		622/128	622/128	622/128	
17	Main jet (specify size)		376/100	376/100	376/100	
18	Float spindle		2622/069	2622/069	2622/069	
19	Float (standard)		622/069	622/069	622/069	
19	Float		622/196	622/196	622/196	
20	Float needle		622/149	622/149	622/149	
21	Filter		376/093	376/093	376/093	
21	Filter (for alcohol only)		376/093B	376/093B	376/093B	
22	Banjo, single, push-on ( in. inside c	liameter tubing)	376/097	376/097	376/097	
22	Banjo, single, threaded 4 in. BSP (5	in_tubing)	376/090	376/090	376/090	
22	Banjo, single, push-on ( in tubing	)	376/130	376/130	376/130	
22	Banjo, double, 90°, push-on (5 in.	tubing)	376/135	376/135	376/135	
22	Banjo, double, 150°, push-on (5 in.		376/139	376/139	376/139	
22	Banjo, double, 55°, push-on (5 in. t	ubing)	376/410	376/410	376/410	
22	Banjo, double, 180°, push-on (4 in.	tubing)	376/419	376/419	376/419	
Not shown	Banjo washer (for alcohol only)		14/175	14/175	14/175	
23	Banjo bolt		622/078	622/078	622/078	
24	Pilot-air adjusting-screw assembly		2622/128	2622/128	2622/128	
25	Throttle-stop adjusting-screw assem	ply	2622/129	2622/129	1222/129	
26	Pilot jet		124/026	124/026	124/026	
27	Float bowl washer		2622/070	2622/070	2622/070	
28	Cold start jet		124/026	124/026	124/026	
29	Float bowl - 0·10 in, seating (2·5 m.	m)	2622/055	2622/055	2622/055	
29	Float bowl - 0-062 in, seating (1-6 r	nm)	2622/056	2622/056	2622/056	
29	Float bowl - 0.125 in. seating (3-2 r	nm)	2622/057	2622/057	2622/057	
29	Float bowl - 0.156 in. seating (4.0 /	nm)	2622/058	2622/058	2622/058	
30	Float-bowl securing screws		622/086	622/086	622/086	
31	Float-bowl drain-plug washer		2622/066	2622/066	2622/066	
32	Float-bowl drain-plug		2622/065	2622/065	2622/065	
33	Velocity stack		2622/126	2928/126	2036/126	
34	Velocity stack securing screws		2036/073	2036/073	2036/073	
35	Adjuster	tell meneral entitle	4/035	4/035	4/035	
36		rnative	5/077	5/077	5/077	
37		e-operated	2622/091	2622/091	2622/091	
38		start	2622/084	2622/084	2622/084	
39	Plunger cap		2622/092	2622/092	2622/092	
40	Plunger assembly	NEWS TO SERVICE STATE OF THE PARTY OF THE PA	2622/094	2622/094	2622/094	





Needle markings chart. Needles are marked with grooves.



Four stroke spray tube on left, part no. 622/074. Two stroker on right, part no. 622/075.

