

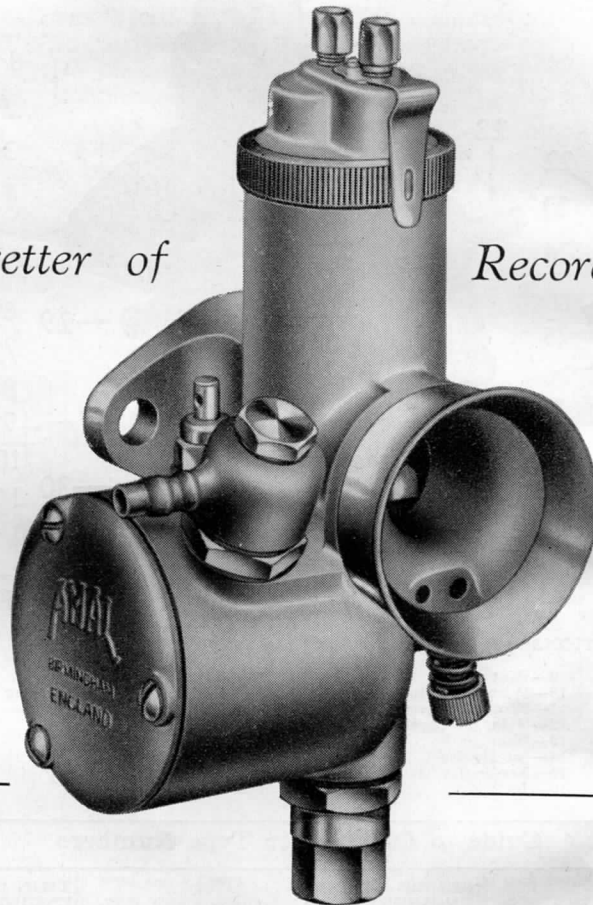
# AMAL

May, 1964.

LIST No. 102/1—ISSUE No. 2  
(Supersedes List No. 504)

*The Carburetter of*

*Records and Successes*



## “Monobloc Carburetter”

A design using the experience of over 50 years in research, development and manufacture of Carburetters for the Motor Cycle Trade.

### *Features :—*

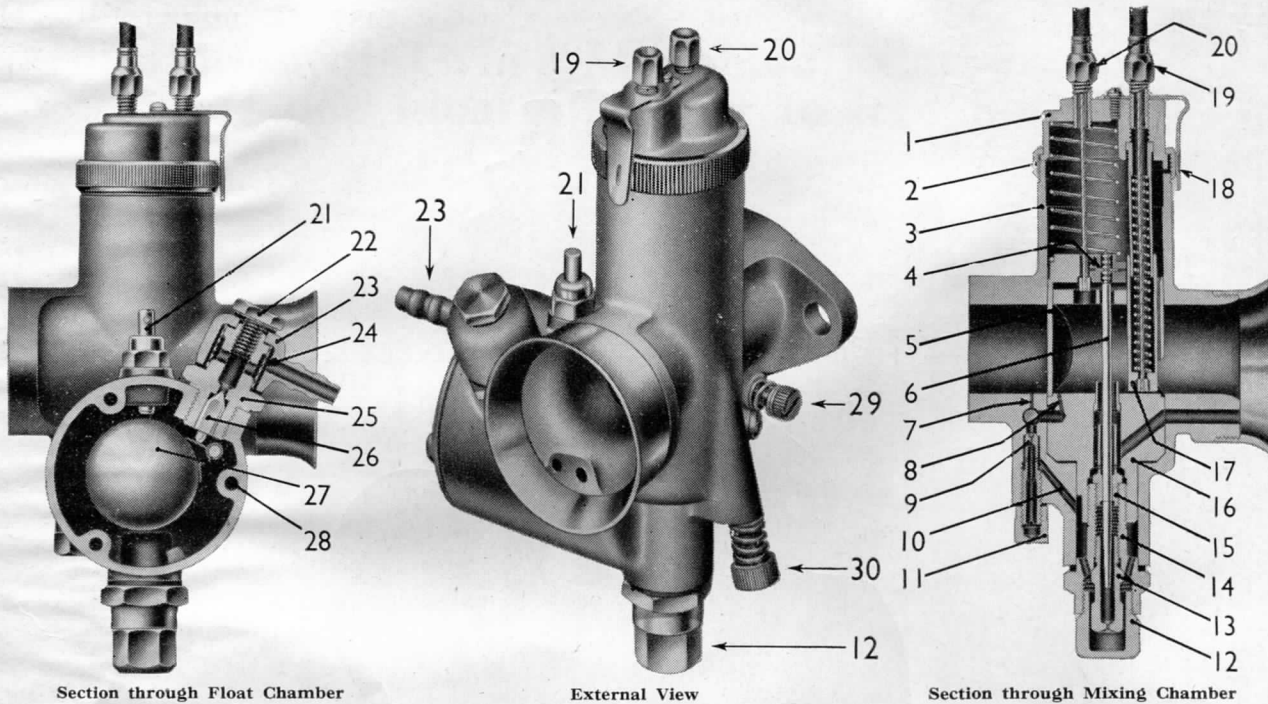
- ★ “Monobloc” clean external appearance.
- ★ Improved petrol consumption.
- ★ Better acceleration.
- ★ Improved pulling on hills.
- ★ Removable pilot jet for ease of cleaning.
- ★ New design of float chamber with better flow characteristics.
- ★ Modified form of throttle valve giving longer life.
- ★ Smoother acting throttle valve.

**AMAL LTD., HOLDFORD ROAD, WITTON,  
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# THE "MONOBLOC" CARBURETTER



Section through Float Chamber

External View

Section through Mixing Chamber

ILLUSTRATIONS OF CARBURETTER (AS FOR DOUBLE LEVER CONTROL)

- |                      |                             |                              |                              |
|----------------------|-----------------------------|------------------------------|------------------------------|
| 1—Mixing Chamber Top | 9—Pilot Jet                 | 17—Air Valve                 | 25—Needle Seating            |
| 2—Mixing Chamber Cap | 10—Petrol Feed to Pilot Jet | 18—Mixing Chamber Cap Spring | 26—Needle                    |
| 3—Carburettor Body   | 11—Pilot Jet Cover Nut      | 19—Cable Adjuster (Air)      | 27—Float                     |
| 4—Jet Needle Clip    | 12—Main Jet Cover           | 20—Cable Adjuster (Throttle) | 28—Side Cover Screws         |
| 5—Throttle Valve     | 13—Main Jet                 | 21—Tickler                   | 29—Pilot Air Adjusting Screw |
| 6—Jet Needle         | 14—Jet Holder               | 22—Banjo Bolt                | 30—Throttle Adjusting Screw  |
| 7—Pilot Outlet       | 15—Needle Jet               | 23—Banjo                     |                              |
| 8—Pilot By-pass      | 16—Jet Block                | 24—Filter Gauze              |                              |

## Guide to Carburetter Type Numbers

SINGLE CYLINDER ENGINES		Type No.	Cross bore inch	bore m/m.	SINGLE CYLINDER ENGINES		Type No.	Cross bore inch	bore m/m.	TWIN CYLINDER ENGINES		Type No.	Cross bore inch	bore m/m.
175 c.c.	TOURING 2-Stroke	375	$\frac{25}{32}$	18-3	350 c.c.	TOURING 2-Stroke	375	$\frac{7}{8}$	22-2	350 c.c.	TOURING S.V.	375	$\frac{21}{32}$	16-7
		375	$\frac{25}{32}$	16-7			375	$\frac{25}{32}$	19-8			375	$\frac{23}{32}$	18-3
		375	$\frac{23}{32}$	18-3			375	$\frac{13}{16}$	20-6			375	$\frac{23}{32}$	19-8
		375	$\frac{23}{32}$	19-8			376	1	25-4			375	$\frac{23}{32}$	18-3
250 c.c.	TOURING 2-Stroke	375	$\frac{25}{32}$	19-8	500 c.c.	TOURING S.V.	376	$\frac{15}{16}$	23-8	500 c.c.	TOURING O.H.V.	376	$\frac{15}{16}$	23-8
		375	$\frac{25}{32}$	18-3			376	$1\frac{1}{16}$	27			376	1	25-4
		375	$\frac{25}{32}$	19-8			389	$1\frac{1}{8}$	28-6			376	$\frac{15}{16}$	23-8
		375	$\frac{23}{16}$	20-6			376	$1\frac{1}{16}$	27			376	$1\frac{1}{16}$	27
1000 c.c.	TOURING O.H.V.	375	$\frac{23}{16}$	20-6	600 c.c.	TOURING	376	$1\frac{1}{16}$	27	1000 c.c.	TOURING O.H.V.	376	$1\frac{1}{16}$	27
		375	$\frac{23}{16}$	20-6										
		375	$\frac{23}{16}$	20-6										
		375	$\frac{23}{16}$	20-6										

## STANDARD CONTROLS.

- Type 366. Standard Short Twist Grip to suit  $\frac{7}{8}$ " diameter handlebar.
- Type 16/069. Standard Short Dummy Grip to suit above.
- Type 16/069. Plastic Dummy Grip to suit above.
- Type 12/161. Single Lever Air Control, opening inwards, on R.H.  $\frac{7}{8}$ " diameter handlebar.

## HOW TO ORDER.

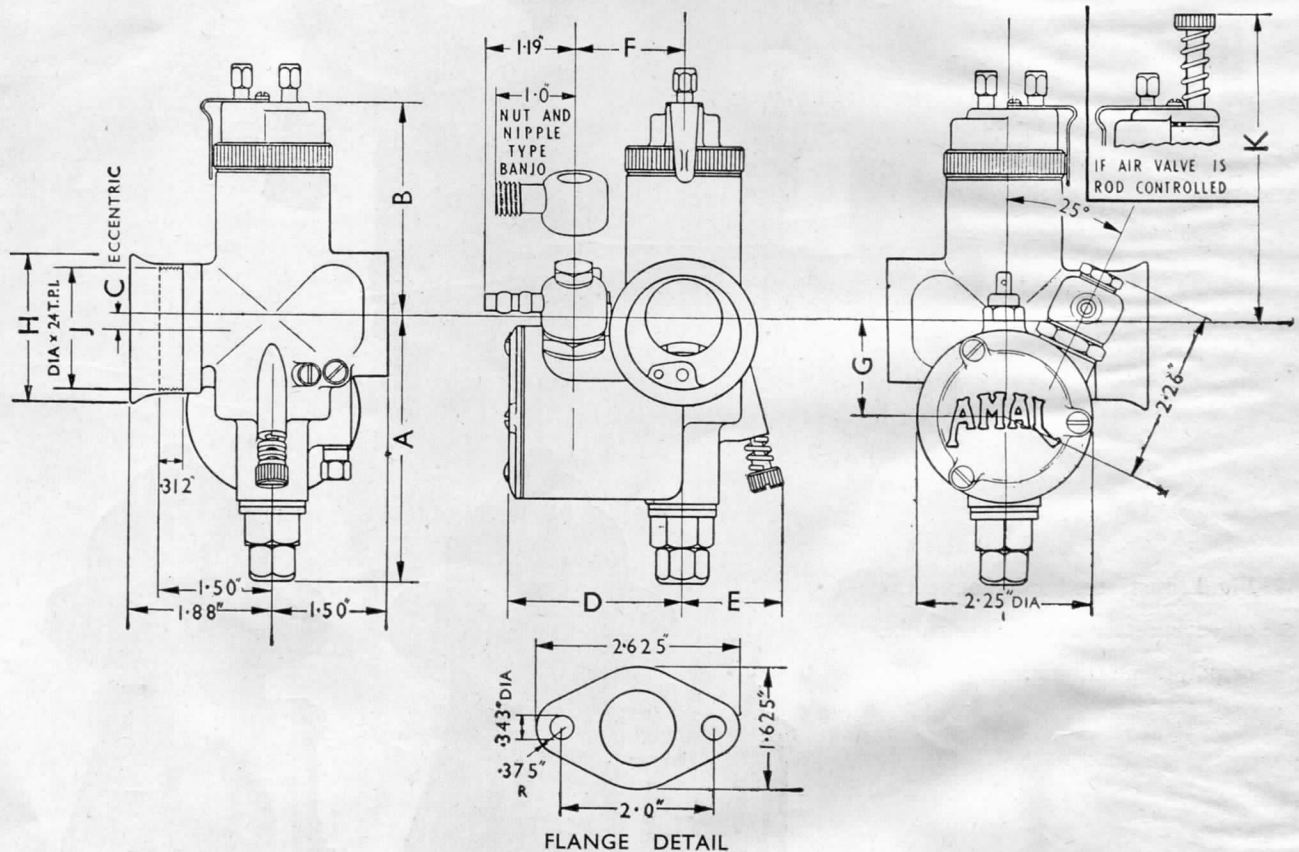
When ordering a CARBURETTER to suit a standard machine, state the following information :—  
**Year of Manufacture. Make of Machine. Model.**

When ordering CONTROLS to operate carburetter, state the following information :—  
**Length of Cables required. Type of Control required and the bar diameter.**

**GENERAL INFORMATION.**

The "MONOBLOC" Carburetters are supplied with or without an air valve. If an air valve is required it can be supplied suitable for operation by a cable and lever from the handle bar or by a rod on the carburetter itself. The standard range of float chamber banjo connections available are as follows :

- Banjo Part No. 375/068. Single feed for  $\frac{3}{16}$ " bore flexible pipe.
- Banjo Part No. 376/090. Single feed, screwed  $\frac{1}{4}$ " B.S.P., complete with nut and nipple for copper pipe.
- Banjo Part No. 376/097. Single feed for  $\frac{1}{4}$ " bore flexible pipe.
- Banjo Part No. 376/098. Double feed for  $\frac{1}{4}$ " bore flexible pipes.
- Banjo Part No. 376/108. Double feed, screwed  $\frac{1}{4}$ " B.S.P., complete with nuts and nipples for copper pipes



**DIMENSIONS OF CARBURETTER**

Type Number	A	B	C	D	E	F	G	H	J	K	Available with Cross Bore Sizes
375	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	$\frac{21}{32}$ in. (16.7 m/m.)
	3.29	2.50	.156	2.18	1.21	1.34	1.146	2.062	1.437	3.93	$\frac{3}{8}$ in. (18.3 m/m.)
											$\frac{25}{32}$ in. (19.8 m/m.)
											$\frac{13}{16}$ in. (20.6 m/m.)
											$\frac{7}{8}$ in. (22.2 m/m.)
376	3.39	2.78	.187	2.27	1.31	1.44	1.25	1.94	1.625	4.38	$\frac{15}{16}$ in. (23.8 m/m.)
											1 in. (25.4 m/m.)
											$1\frac{1}{16}$ in. (27.0 m/m.)
389	3.53	2.97	.187	2.33	1.37	1.50	1.39	2.062	1.75	4.70	$1\frac{1}{8}$ in. (28.6 m/m.)
											$1\frac{5}{32}$ in. (29.4 m/m.)
											$1\frac{3}{16}$ in. (30.2 m/m.)

# AMAL

LIST No. 102/1

## Illustration of Twin "Monobloc" Carburetters using one Float Chamber to feed both Carburetters

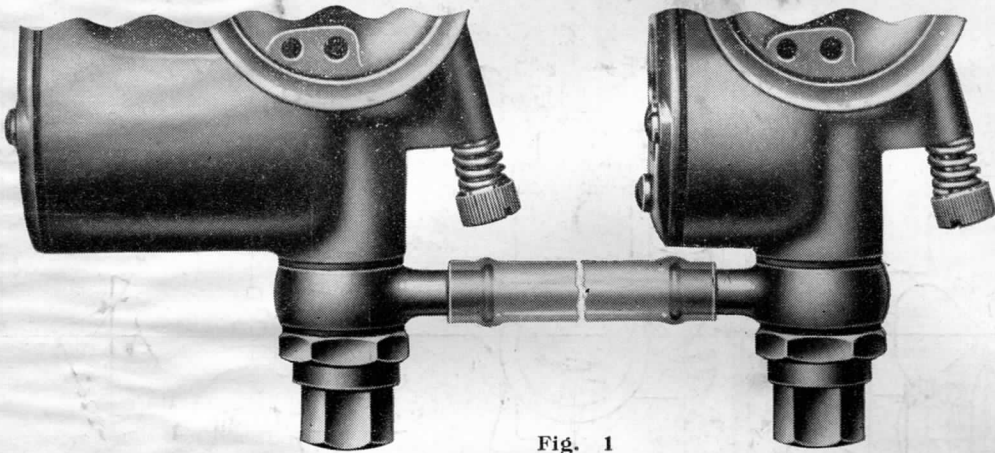


Fig. 1

Fig. 1 illustrates banjo connection on carburetter base, using rubber or polythene tubing.

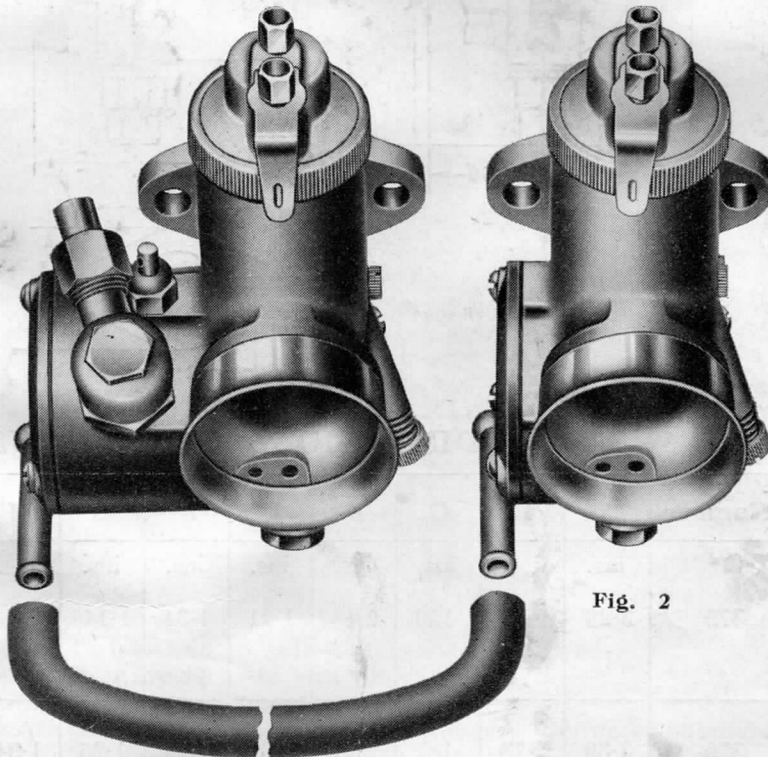


Fig. 2

Fig. 2 illustrates connection between Float Chamber covers in rubber or polythene tubing.

For—Hints and Tips, including How Carburetter Works, see List No. 102/3.  
For—List of Spares .. .. . see List No. 102/2.

*GUARANTEE.—The Company take all possible reasonable care in the manufacture and the quality of their products. Purchasers are informed that, any part proved to be defective in manufacture or quality, and returned to the works within six months of its purchase new, will be replaced. The Company must respectfully point out however, that its responsibility and that of its agents, stockists and dealers, is limited to this Guarantee, and that they cannot, under any circumstances, be held responsible for any loss or for any contingent or resulting liability arising through any defect. These conditions of sale and use also apply when the Company's products form part of the original equipment of machines purchased new.*

3,000/5/64. W.

Printed in England.

**AMAL LTD., HOLDFORD ROAD, WITTON,  
BIRMINGHAM 6, ENGLAND**

'Phone : Birmingham, BIRchfields 4571.  
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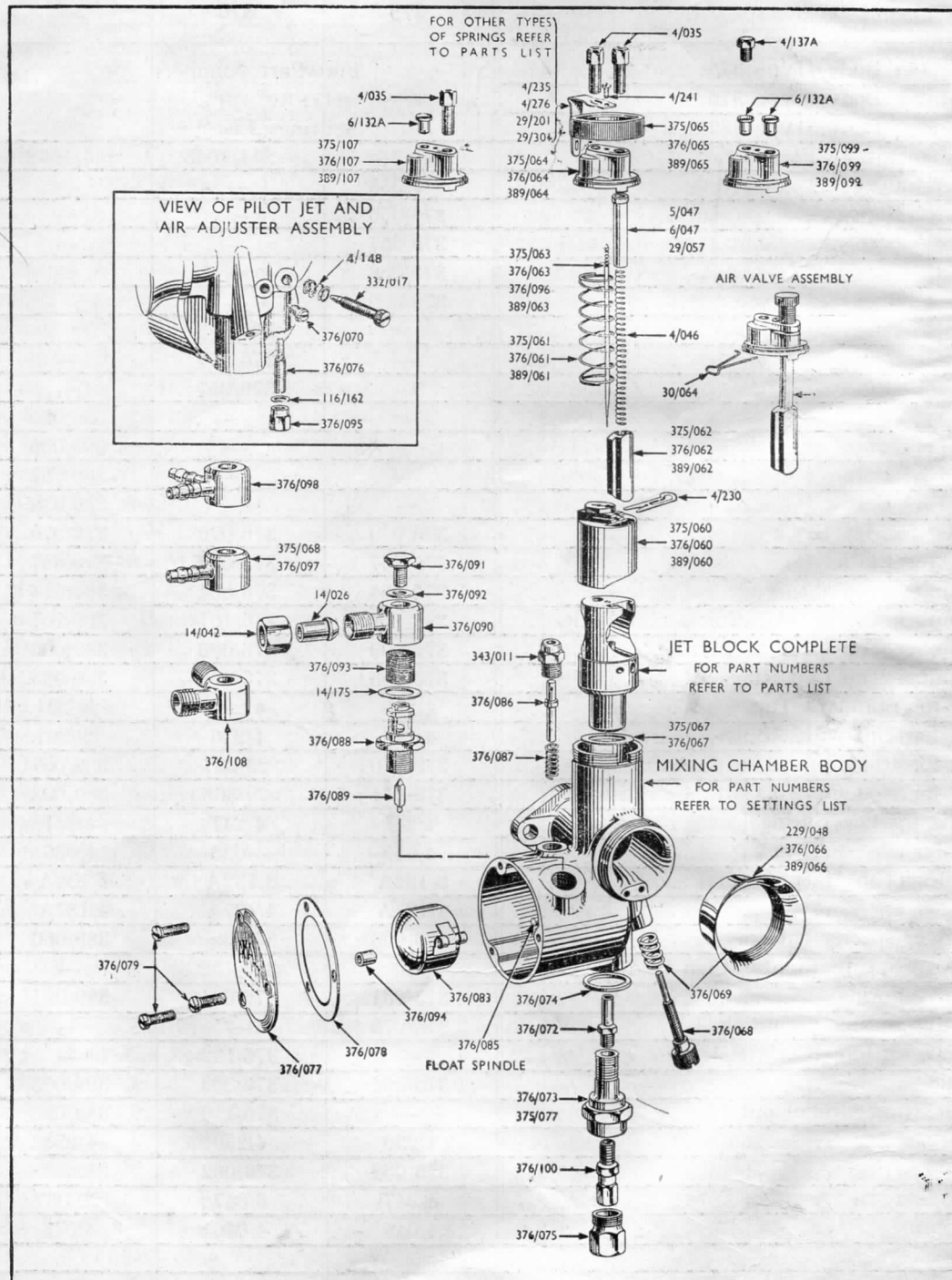
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# AMAL

July, 1964.

LIST No. 102/2 (Issue No. 3)  
(Supersedes List No. 503)

## MONOBLOC CARBURETTOR Spare Parts List



**AMAL LTD., HOLDFORD ROAD, WITTON,  
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Phone: Birmingham, BIRchfields 4571.  
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# MONOBLOC CARBURETTER SPARE PARTS LIST

Component	Type 375	Type 376	Type 389
Mixing Chamber Body, Type 375 .. .. .	} For Part Numbers refer to Settings List		
Mixing Chamber Body, Type 376 .. .. .			
Mixing Chamber Body, Type 389 .. .. .			
"O" Ring for Intake Flange .. .. .	244/765	244/1048	244/1048
Jet Block, $\frac{31}{32}$ " Bore .. .. .	375/055	—	—
Jet Block, $\frac{32}{32}$ " Bore .. .. .	375/056	—	—
Jet Block, $\frac{33}{32}$ " Bore .. .. .	375/057	—	—
Jet Block, $\frac{13}{16}$ " Bore .. .. .	375/058	—	—
Jet Block, $\frac{7}{8}$ " Bore .. .. .	375/059	—	—
Jet Block, $\frac{13}{16}$ " Bore .. .. .	—	376/055	—
Jet Block, 1" Bore .. .. .	—	376/056	—
Jet Block, 1 $\frac{1}{16}$ " Bore .. .. .	—	376/057	—
Jet Block, 1 $\frac{3}{32}$ " Bore .. .. .	—	—	389/055
Jet Block, 1 $\frac{1}{8}$ " Bore .. .. .	—	—	389/056
Jet Block, 1 $\frac{5}{32}$ " Bore .. .. .	—	—	389/057
Jet Block, 1 $\frac{3}{16}$ " Bore .. .. .	—	—	389/058
Locating Peg for Jet Block .. .. .	376/070	376/070	376/070
Washer for Jet Block .. .. .	375/067	376/067	376/067
Mixing Chamber Top (Std.) .. .. .	375/064	376/064	389/064
Mixing Chamber Top for Adjuster and Ferrule ..	375/107	376/107	389/107
Mixing Chamber Top for Two Ferrules .. .. .	375/099	376/099	389/099
Mixing Chamber Top Cap Ring .. .. .	375/065	376/065	389/065
Cap Spring for Standard Top .. .. .	4/235	4/235	29/201
Cap Spring for Top with Adjuster Ferrule ..	4/276	4/276	29/301
Cap Spring for Rod Control, with Adjuster ..	375/070	29/307	389/067
Cap Spring for Rod Control, with Ferrule ..	375/071	29/308	389/068
Fixing Screw for Cap Springs .. .. .	4/241	4/241	4/241
Cable Adjuster .. .. .	4/035	4/035	4/035
Cable Ferrules (Top Hat) .. .. .	6/132A	6/132A	6/132A
Plug Screw .. .. .	4/137A	4/137A	4/137A
Throttle Valve (specify cutaway) .. .. .	375/060	376/060	389/060
Throttle Valve Spring (lighter than St'd) ..	—	376/132	—
Throttle Valve Spring .. .. .	375/061	376/061	389/061
Throttle Valve Spring (Triumph T21) .. .. .	375/079	—	—
Throttle Valve Spring (Carb. pairs) .. .. .	—	376/132	—
Taper Needle .. .. .	375/063	376/063	389/063
Taper Needle (for Alcohol only) .. .. .	—	376/116	389/088
Needle Clip .. .. .	4/230	4/230	4/230
Air Valve .. .. .	375/062	376/062	389/062
Air Valve Guide .. .. .	5/047	6/047	29/057
Air Valve Spring .. .. .	4/046	4/046	4/046

## MONOBLOC CARBURETTER SPARE PARTS LIST—continued

Component	Type 375	Type 376	Type 389
Rod Control Air Valve Assembly .. .. .	375/101	376/101	389/101
Rod Control Air Valve Assembly .. .. .	375/100	—	—
Rod Control Air Valve Assembly .. .. .	375/102	—	—
Mixing Chamber Top (Rod Control Air Valve with Adjuster) .. .. .	375/076	376/102	389/069
Mixing Chamber Top (Rod Control Air Valve with Ferrule) .. .. .	375/086	376/158	389/094
Click Spring .. .. .	30/064	30/064	30/064
Air Valve .. .. .	375/108	376/166	389/090
Air Valve Spring .. .. .	30/187	30/187	30/187
Operating Rod and Nut, .656" and .718" Bores	375/115	376/183	389/093
Return Spring, .656" and .718" Bores .. .. .	376/109	376/109	376/109
Operating Rod and Nut, .781", .812" and .875" Bores	375/116	376/183	389/093
Return Spring, .781", .812" and .875" Bores ..	30/159	376/109	376/109
Needle Jet .. .. .	376/072	376/072	376/072
Needle Jet (for Alcohol only) .. .. .	376/117	376/117	376/117
Main Jet (specify size) .. .. .	376/100	376/100	376/100
Main Jet Holder (Standard) .. .. .	376/073	376/073	376/073
Main Jet Holder (Special Long) .. .. .	—	376/140	—
Main Jet Holder, Standard (Excelsior) .. .. .	375/077	—	—
Main Jet Holder (Special Short) .. .. .	376/128	376/128	376/128
Main Jet Holder (for Banjo) .. .. .	—	376/140	—
Main Jet Holder Washer .. .. .	376/074	376/074	376/074
Main Jet Cover Nut .. .. .	376/075	376/075	376/075
Main Jet Cover Nut .. .. .	—	376/133	—
Pilot Jet .. .. .	376/076	376/076	376/076
Pilot Jet Cover Nut .. .. .	376/095	376/095	376/095
Pilot Jet Cover Nut Washer .. .. .	116/162	116/162	116/162
Air Adjusting Screw .. .. .	332/017	332/017	332/017
Air Adjusting Screw, Hexagon Head .. .. .	—	376/119	—
Air Adjusting Screw Spring .. .. .	4/148	4/148	4/148
Throttle Stop Screw .. .. .	376/068	376/068	376/068
Throttle Stop Screw ( $\frac{7}{8}$ " Bore only) .. .. .	376/160	—	—
Throttle Stop Screw Spring .. .. .	376/069	376/069	376/069
Air Intake Tube .. .. .	229/048	376/066	389/066
Air Intake Tube, Special Short (Enfield) .. .. .	375/078	—	—
Air Intake Screwed Adaptor .. .. .	244/886	376/110	389/072
Air Tube ( $2\frac{3}{4}$ " long) .. .. .	—	376/143	—
Float, complete .. .. .	376/083	376/083	376/083
Float Hinge Spindle .. .. .	376/085	376/085	376/085
Float Spindle Bush .. .. .	376/094	376/094	376/094
Float Needle .. .. .	376/089	376/089	376/089
Float Needle (for Alcohol only) .. .. .	376/161	376/161	376/161



LIST No. 102/2

MONOBLOC CARBURETTER SPARE PARTS LIST—continued

Component	Type 375	Type 376	Type 389
Needle Seating .. .. .	376/088	376/088	376/088
Needle Seating (for Alcohol only) .. .. .	376/118	376/118	376/118
Needle Seating Washer .. .. .	14/175	14/175	14/175
Banjo, Single .. .. .	375/068	375/068	375/068
Banjo, Single .. .. .	376/097	376/097	376/097
Banjo, Single (for Mixing Chamber) .. .. .	—	376/141	—
Banjo, Single .. .. .	376/090	376/090	376/090
Banjo, Single .. .. .	376/130	376/130	376/130
Banjo, Single .. .. .	—	376/138	—
Banjo, Double .. .. .	376/098	376/098	376/098
Banjo, Double .. .. .	376/135	376/135	376/135
Banjo, Double .. .. .	376/139	376/139	376/139
Banjo Double (Screwed) $\frac{1}{4}$ B.S.P. .. .. .	376/108	376/108	376/108
Banjo Washer .. .. .	14/175	14/175	14/175
Banjo Bolt .. .. .	376/091	376/091	376/091
Banjo Bolt Washer .. .. .	376/092	376/092	376/092
Tickler .. .. .	376/086	376/086	376/086
Tickler (Francis Barnett) .. .. .	—	—	376/126
Tickler Body .. .. .	343/011	343/011	343/011
Tickler Body (Francis Barnett) .. .. .	—	—	376/125
Tickler Spring .. .. .	376/087	376/087	376/087
Float Chamber Cover .. .. .	376/077	376/077	376/077
Float Chamber Cover Joint .. .. .	376/078	376/078	376/078
Float Chamber Cover Screws .. .. .	376/079	376/079	376/079
Filter Gauze .. .. .	376/093	376/093	376/093
Petrol Union Nut .. .. .	14/042	14/042	14/042
Petrol Union Nipple .. .. .	14/026	14/026	14/026
Monobloc Servicing Spanner (not illustrated) .. .. .	244/1037	244/1037	244/1037

For Prices refer to List No. 101/1.

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