

**PRICES CANCELLED.
SEE ATTACHED SLIP 1952.**

AIR FILTRATION PROLONGS THE LIFE OF AN ENGINE

LIST No. A325.

IMPORTANT FOREWORD :—Air filtration at the Carburetter is a matter of degree and this degree of efficiency is controlled in practice by the space available for fitting the Filter.

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PRICE REVISION FOR No. 325 AIR FILTER LISTS, PENDING THE PRINTING OF A NEW LIST, B.325.

Air Filter and Strangler type 224/100	10s. 0d. each
Air Filter type 34, fitted with either felt or fine gauze, complete with Adaptor	16s. 3d. each
Air Filter type 96, flat model, with fine gauze element, including thread Adaptor	10s. 0d. each
Air Filter type 65, gauze, including Adaptor	12s. 6d. each
Air Filter type 215	25s. 0d. each
Air Filter, Adaptors only	2s. 6d. each
Type 30, Three Gauze Intake, including Adaptor	9s. 3d. each
Three Gauze Intake, less Screwed Adaptor	6s. 9d. each

The above prices to take effect as from the 1st January, 1952.

AMAL AIR FILTERS WITH METAL WOOL ELEMENTS DIPPED IN ENGINE OIL. Figs. 1 & 2



FIG. 1

TO CLEAN, IMMERSE IN PETROL, DIP IN ENGINE OIL AND ALLOW TO DRAIN BEFORE USE.

IF FITTED TO A CARBURETTER ALREADY TUNED WITHOUT AIR FILTER A SLIGHT REDUCTION MAY BE NECESSARY IN MAIN JET SIZE.

Specially suitable for engines with "petrol" lubrication.

TYPE 224/100 for small Engines up to 175cc. For Carbs. Types 52, 53, 259, 261 and 223.

Fitted with an easily operated air strangler shutter (see index 7) for cold starting. The shutter plate has a bleed hole of $\frac{5}{32}$ " to admit enough air for starting.

Attachment by split sleeve and clamp for fitting on to a pipe dia. of $\frac{15}{16}$ " (23.81 mm.)

Size of Air Filter 3" dia. (76 mm.) x 2" (51 mm.) long overall.

PRICE 10s. 0d. Finish cadmium plate lacquered. Weight, 4 ozs., as Fig. 1.

FIG. 2.



TYPE 215/101 for Engines up to 500c.c. SINGLES and 1,000cc. TWINS. See fig. 2.

This type has no air strangler as this is normally fitted in the Carburetter. It can be taken apart for cleaning by undoing a screw in the centre of the end plate without detaching the filter. The body is made as a perforated cylinder between two end plates, one of which is the attachment for the Carburetter and the other to hold in the cylindrical filtering element—all held together by a simple screw.

The attachment is by a split sleeve and clamp band as shown on the left of the illustration and would clamp on to a pipe 1.56" (39.62 mm.) dia. Screwed adaptors are supplied to fit into the Filter Body for screwing on to standard Amal Carburetters when the air funnel is removed. The outside dimensions of the body are 4 $\frac{3}{8}$ " (111 mm.) dia. x 3" (76 mm.) long.

PRICE 20s. 6d. Black Finish. Specify Type Number of Amal Carburetter for adaptor size. Weight, 1 lb. 4 oz.

All Prices are subject to alteration without notice.

(THIS LIST IS PRINTED IN ENGLAND, AND IS ISSUED SUBJECT TO PRICES RULING AT THE DATE OF DELIVERY)

AMAL LTD., Holford Works, Perry Barr, BIRMINGHAM, 20

TELEPHONE: BIRCHFIELDS 4571 (5 lines).

ENGLAND.

TELEGRAMS: AMALCARB, BIRMINGHAM.

AIR FILTERS: WITH "FELT" FILTERING MEDIUM THAT REQUIRES ATTENTION BUT OFFERS THE MAXIMUM PROTECTION TO THE ENGINE.

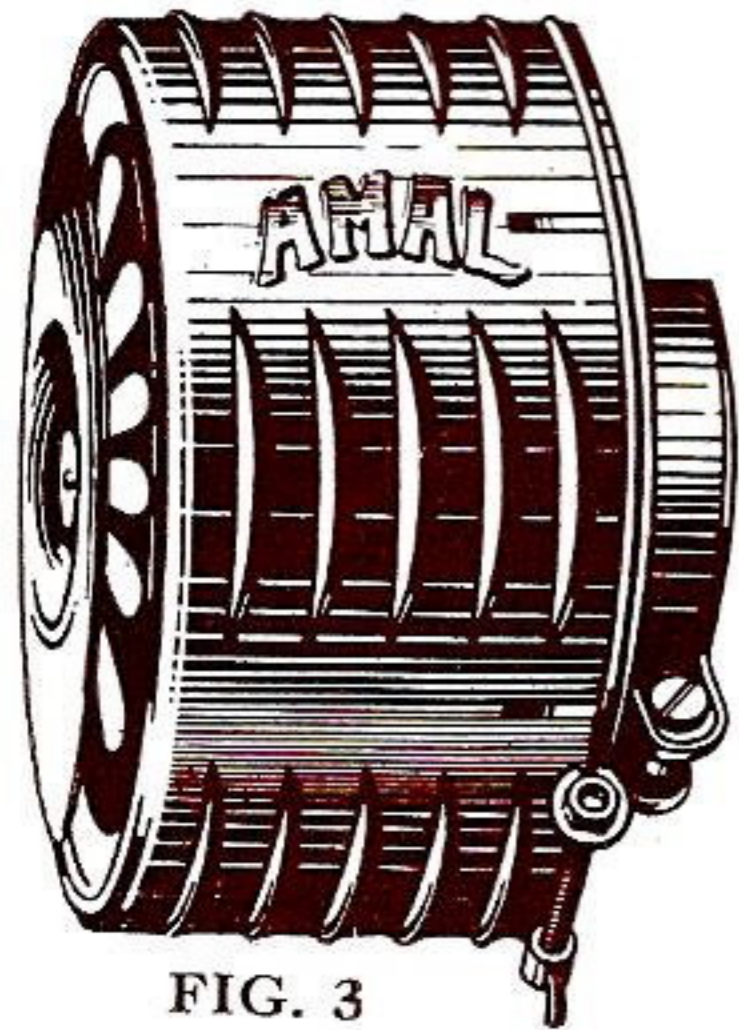


FIG. 3

RECOMMENDED ONLY FOR 4-STROKE TOURING MOTOR CYCLES AND REQUIRING A REDUCTION IN MAIN JET SIZE WHEN BEING FITTED TO A CARBURETTER TUNED TO AN ENGINE WITHOUT ONE.*

ATTACHMENT. One end of the filter has a split sleeve that would fit a pipe 1.56" dia. (39.62 mm.), and on which a screw operated clip is fitted, see right of illustration. Into this can be fitted various screwed adaptors to screw on to the standard Amal Carburetters when the air funnels are removed. The air filter may be fitted by an elbow if the owner can arrange for it to be made. If the air filter were to be fitted vertically, the louvres should be ordered to point the opposite way from standard to allow water to drip off.

The air filter must be shielded from rain.

Black Finish. Type 34, made in two sizes.

PRICE 12s. 6d. each.

Weight, 8 to 10 ozs. respectively.

Long Type, 34/001, Body dia. 2 7/8" (73 mm.) by length overall 4 1/8" (104 mm.).
Short Type, 34/101, Body dia. 4" (102 mm.) by length overall 3 1/8" (79 mm.).

*When ordering note your requirement of smaller main jets and specify the type number of your Carburetter for the screwed adaptor.

The design is of a felt sack of an M shaped section that fits on to a support and the whole is covered by a louvred cylindrical body. The rim of this body embracing the rim of the filtering sack is clamped on to the attachment end of the filter by wire which is pulled tight by a wing nut—thus easy detachment for cleaning is provided for and is shown in the illustration (see fig. 4).

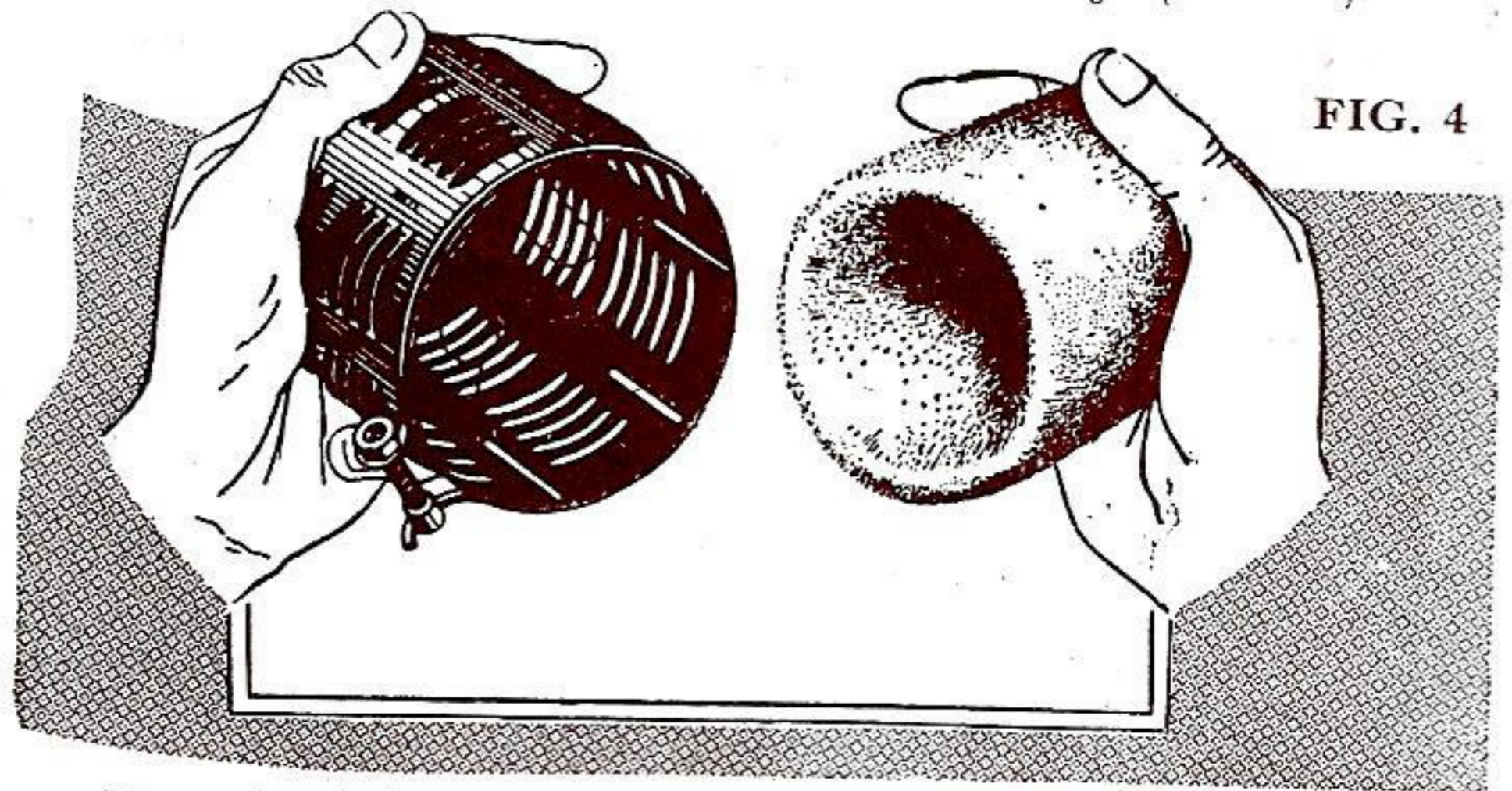


FIG. 4

The M section of the cylindrical filtering medium provides a simple but effective area for filtration but the felt will become clogged with dust and eventually cause the engine to lose power: As this state begins, the filter sack must be removed and shaken out and dried if necessary.

*IMPORTANT. The felt must be kept dry and must not be impregnated with oil. If this Filter T34 with felt sack is fitted to a Carburetter tuned without one, the main jet size must be reduced as the restriction of the filtering element will increase the suction on the main jet. We suggest that probably the reduction in jet size will be as below for the following Amal Carburetters and may be used as a guide for arriving at the correct setting:—

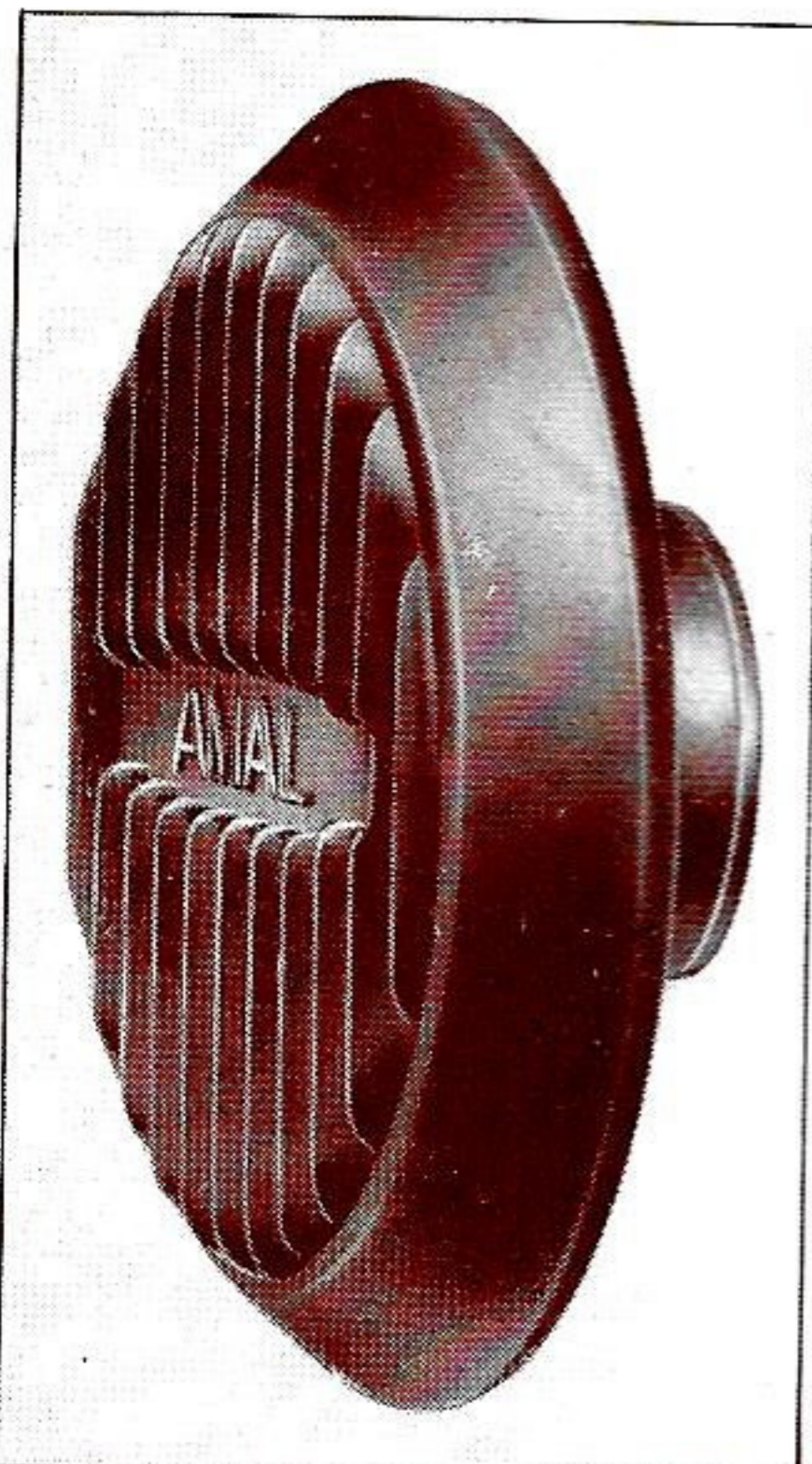


FIG. 5. T.96 for Twin Engines

CARBURETTER TYPES.	JET SIZE REDUCTION.	JET SIZE TO BE USED.	EXAMPLE OF REDUCING JET SIZE BY ABOUT 15% IN A CARBURETTER NUMBER 275.
4, 74, 204, 274	10%	Viz., Nine-tenths of original size.	Supposing Jet Number 120 was used:— $120 \times \frac{6}{7} = \frac{720}{7} = 103$ Therefore try Jet numbers 105 or 100
5, 75, 205, 275	15%	Viz., Six-sevenths of original size.	
6, 76, 206, 276	20%	Viz., Four-fifths of original size.	
29, 229, 289	20%	Viz., Four-fifths of original size.	

WARNING. IF THE AIR FILTERING MEDIUM IS REMOVED THE MIXTURE WOULD THEN BE TOO WEAK.

AIR FILTERS WITH "FINE GAUZE" ELEMENTS.

These exclude sand and grit and are not likely to require any reduction in jet sizes.

TYPE 34. As fig. 3 above, but with gauze instead of felt as a filtering medium 34/051. Long type. 34/151, Short type. PRICE 12s. 6d. each.

TYPE 96. FOR TWIN ENGINES. As illustrated fig. 5. Flat model, dia. 4 1/2" (115 mm.). Overall length 1 5/8" (42 mm.). In this case the thread adaptor is fastened into the air filter. PRICE 7s. 6d. each

ALSO, WITH COARSE GAUZE:—

Type 65/001, in external appearance as fig. 2 overleaf, but with the body made of 3 windings of gauze and no internal element. Size, body dia. 2 1/2" (63.5 mm.). Length 3" (76 mm.). PRICE 8s. 9d. each.

Type 30. Three gauze intake, viz., like an enlarged air funnel with 3 coarse gauze discs held in by a spring.

Type 30/109c for Carburetters 76, 276; and type 30/330 for Carburetters 4, 5, 74, 75, 274, 275. PRICE 6s. 9d. each.

WHEN ORDERING ABOVE STATE TYPE No. OF CARBURETTER TO INDICATE ADAPTOR THREAD SIZE

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