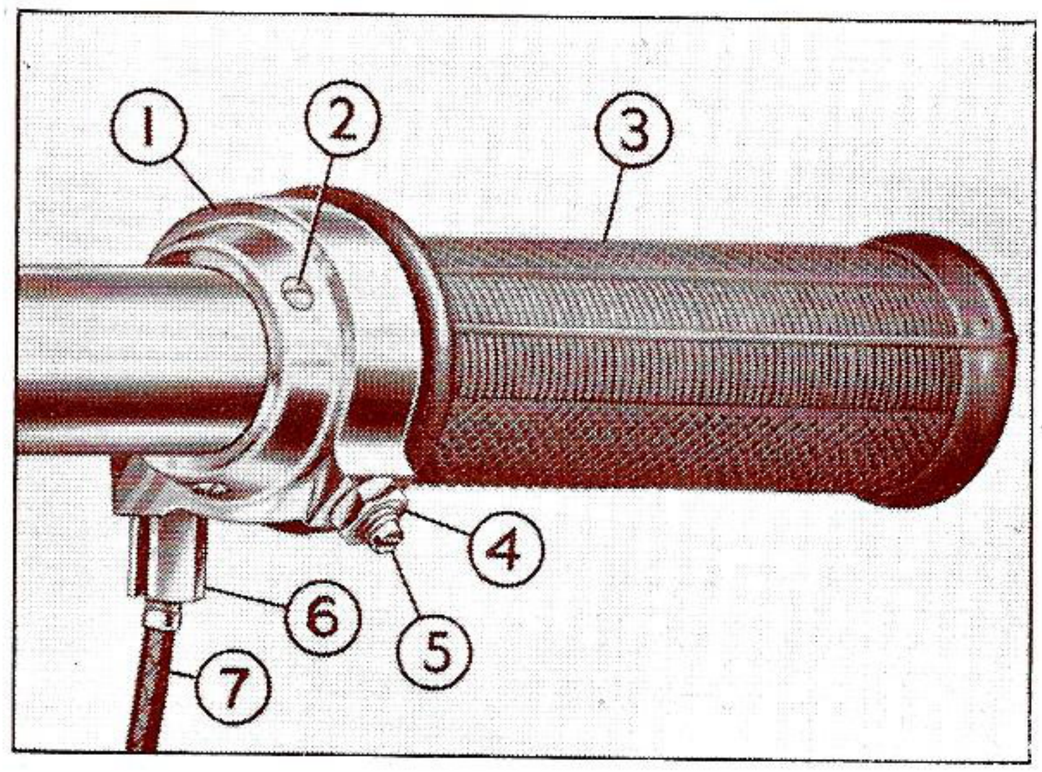
LIST No. A458.



AMAL

Twist Grip

Type 306

Price : 10s. 6d.

For CARBURETTER THROTTLE CONTROL

For $\frac{7}{8}$" and 22 m.m. dia. Handlebars, with closed end rubber grip.

SMOOTH ACTION within comfortable movement of the wrist.

VERY NEAT APPEARANCE.

POLISHED, CHROMIUM PLATE FINISH.

CABLE WIRE EASILY DETACHED or REASSEMBLED WITHOUT REMOVING ANY PART OF THE TWIST GRIP FROM THE BAR.

ADJUSTABLE FRICTION DEVICE.

Specification :

For $\frac{7}{8}$" or 22m.m. dia. Handlebar only.

Weight 8 ozs only (0.227 kilos).
Overall length $5\frac{1}{2}$" (140 m.m.).
Length of rubber grip $4\frac{7}{8}$" (124 m.m.).

Pull or travel of wire :—
Maximum movement $1\frac{7}{8}$" (48 m.m.) with half turn of twist grip.
1" or 25 m.m. "pull" requires just over a quarter turn of grip.

The twist grip is made to turn inwards on a right hand bar only.

Description.

The Twist Grip is a unit that slides complete over the end of the handlebar and it is located there by three grubscrews (2), the hard ends of which bite into the bar itself. The handlebar end must be straight for $5\frac{1}{2}$" (140 m.m.).

The twist grip is in two main pieces :—one, the ring body (1) made in brass and chromium plated, which carries the fixing grubscrews (2), the friction device (4, 5, 8), and the cable stop (6). The other is the steel rotor tube which turns on the bar ; it is covered by a closed-end rubber grip (3) leaving the end (9) of the tube exposed ; the exposed end (9) is so formed to engage in the body (1), to act as the drum (9) over which the control wire (7) is drawn and also to hold the wire nipple (11) in its claw (10).

A friction device is provided to steady the rotor against the return spring pull of the control wire. The friction spring (8) rubs on the rotor drum (9) and the pressure thereon is set by the screw (5) and locked by nut (4) according to "feel" of driver.

The control cable and wire is attached to the handlebar and brought to the twist grip by a loop, entering at right angles. The outer cable is stopped at the screw (6), the inner wire passing through at (A) so that its nipple (11) engages with the claw (10) of the rotor

Control Cable Arrangements.

The twist grip is intended to operate against a retnrn spring in the carburetter :—it is not push pull. The cable backlash must have its adjustment from the carburetter. The control cables provided for are Nos. 111, and wire 062, or cable 052 with wire 050.

RELATIVE LENGTHS OF INNER WIRE & OUTER CABLE :—
When the control cable and wire are brought from the carburetter with its adjusting screw in, the outer cable fixed in position and looped up to the twist grip, the inner wire should then extend to give a distance of $\frac{11}{16}$" (17 m.m.) between the end of the outer cable (7) and the inside of the cable nipple (11), which is to lay in the rotor claw (10).

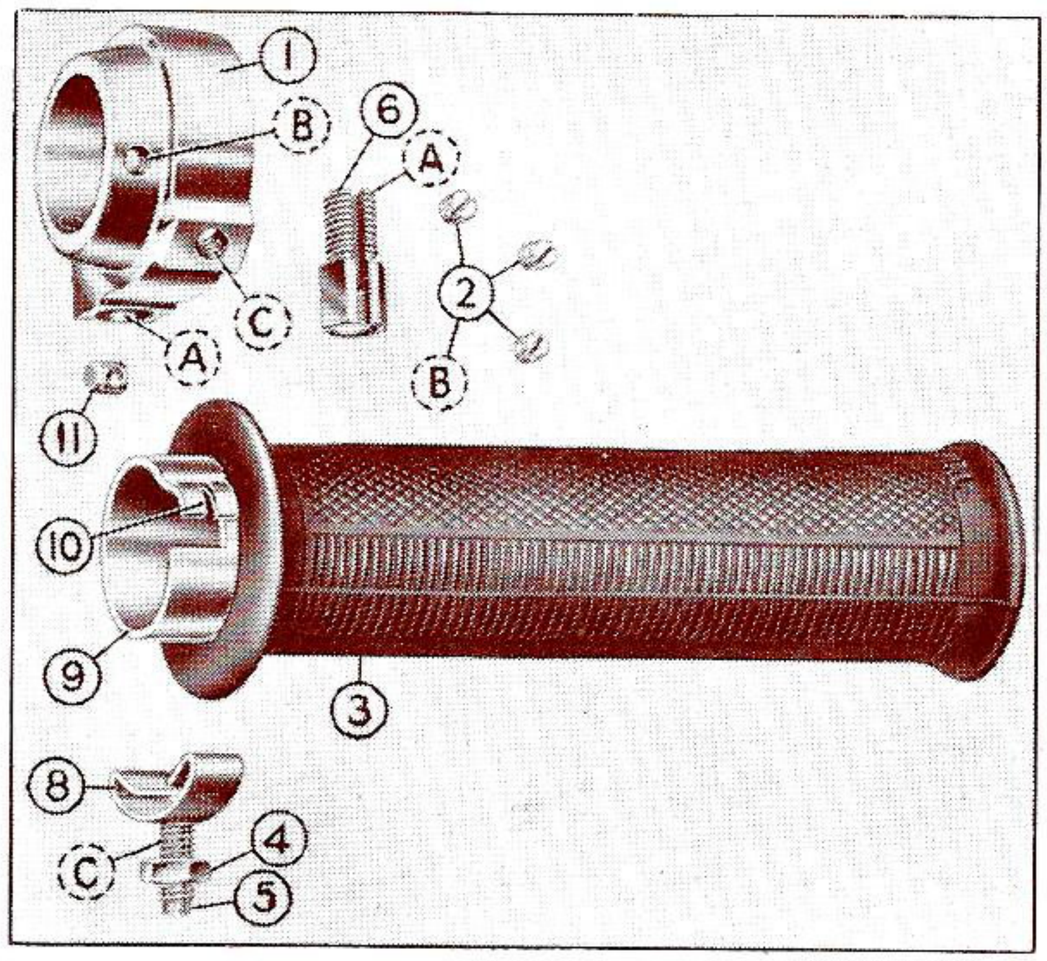


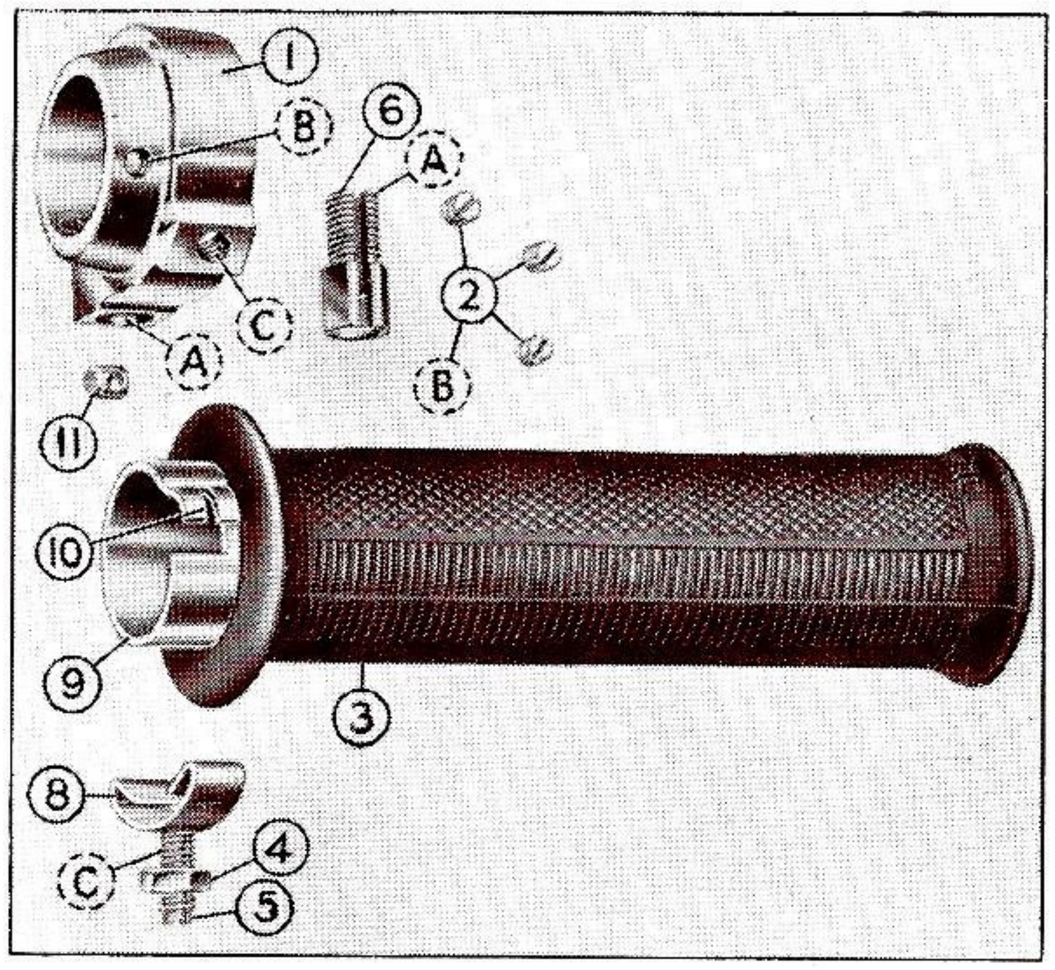
Illustration half size.

INDEX :

1. Twist grip body.
2. Body grub screws.
3. Rubber grip on rotor.
4. Lock nut.
5. Friction spring screw.
6. Cable stop.
7. Control cable.
8. Friction spring.
9. Rotor drum.
10. Rotor nipple claw.
11. Wire nipple.

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

TELEPHONE : BIRCHFIELDS 4571 (5 lines). TELEGRAMS : AMALCARB, BIRMINGHAM.



INSTRUCTIONS

AMAL

TWIST GRIP

Type 306

To take the Twist Grip to pieces.

Slacken the three grub screws (2) and slide the twist grip off the bar. Loosen the lock-nut (4) and screw outwards the friction adjusting screw (5) then the rotor can be manœuvered out. To put together again see that the friction screw (5) is as far out as possible, then insert the claw (10) of the rotor end into the recess of the body (1), line up, screwing in the screw (5) so that the friction spring (8) rests gently on the drum (9).

To remove the Cable from the Twist Grip.

Simply remove the screw stop (6) and overshut the twist grip ; the wire will then fall out.

Fitting the Twist Grip.

No work need be done on the handlebar provided the end i straight for $5\frac{1}{2}''$ (140 m.m.), and greased. The twist grip uni is slipped over the end of the bar and the position of th body (1) located to bring the cable stop (6) into the desire position ; it is then secured by the three grub screws (2) i the body (1) at (B).

Fitting the Cable and Wire to the Twist Grip.

Bring the twist grip into the shut position, unscrew the cabl stop (7) and then over shut the grip by about a quarter turr to bring the claw (10) of the rotor on the underside of th wire nipple to be inserted. Now insert the cable nipple an wire through the opening A, in the body, turn the grip (3 in the opening direction so that the claw (10) catches th nipple (11) and when it is caught pull the outer cable dow to expose some of the inner wire, slip over it the slotted cabl stop (6), and screw right up into the body (1) as it has to ac as a " stop." Operate the twist grip several times to see tha the throttle opens and shuts freely ; the cable adjuster o the carburetter should then be adjusted to take out the back lash, and/or set the tick-over position of the throttle. Finally adjust the friction device to suit the " feel " of the rider b setting screw (5) and locking in position by nut (4).

SPARE PARTS LIST FOR TWIST GRIP 306/1

Component	Part No.	List Price s.	d.
Twist Grip complete	306/1	10	6
Twist Grip Body (1) ...	306/001	5	0
Twist Grip Rotor (9 and 10)	306/002	2	0
Body Grub Screws (2) ...	306/003		1
Friction Spring (8)	306/004		8
Friction Spring Screw (5) ...	306/005		6
Friction Spring Screw Lock-nut (4)	16/101		2
Rubber Grip (3)	16/070	1	0
Cable Stop (6)	306/007		9
Cable Nipple (11)	306/008		2

All prices are subject to alteration without notice.

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