

INSTRUCTIONS TO
USERS OF
E.I.C. MAGNETOS
(Types A2 & AV2 Ref. D).

WHEN ORDERING
SPARE PARTS OR
REFERRING TO MAGNETO
IN CORRESPONDENCE

ALWAYS MENTION THE
REFERENCE NUMBER
WHICH WILL BE FOUND
ON SIDE OF BASE PLATE

LUBRICATION.

This machine is constructed in such manner as to require no oil. Users are therefore warned not to attempt to oil bearings; lubricant sufficient for several years' work is provided in grease-containing chambers when machine is built up. By this means the danger of over-oiling is avoided and the machine rendered more durable by the fact of eliminating the possibility of dust entering the working parts.

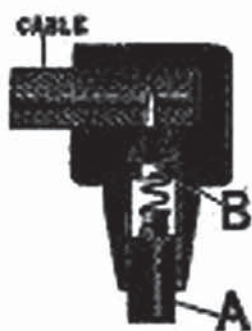
TO ATTACH HIGH TENSION CABLE.

E.I.C. Magnetos are sent out with Cables fitted, but should occasion arise for renewal, the following method is advocated :—

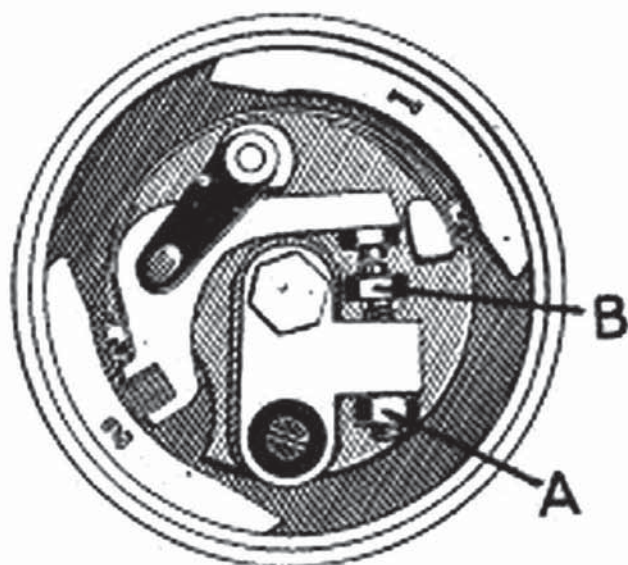


Cut away rubber covering until about $\frac{3}{8}$ of an inch of wire is exposed. Fan wire out so that the strands spread over end of Cable, as here shown.

Then proceed to fit into Carbon Holder as described below :—



Remove pick-up brush holder from machine, withdraw carbon brush and spring (A) from same. With small turnscrew remove contact screw (B) which will be found at bottom of Carbon brush tube; this screw has a sharp point which is intended to pierce through cable and make contact by piercing the wire centre of cable. When contact screw has been removed, insert end of cable into socket and replace screw, causing it to pierce cable and so make contact, which, if properly done, forms a perfect permanent waterproof contact.



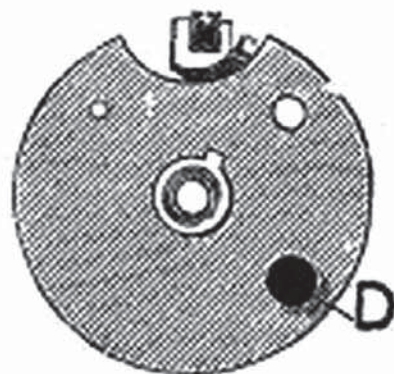
CONTACT POINTS.

These should be maintained at correct setting, as per thickness of gauge supplied attached to spanner.

To set, first loosen lock-nut (A), then turn nut (B); when correct setting is obtained tighten nut (A). When checking clearance of points see that contact breaker is in position, so that fibre is about $\frac{1}{4}$ of an inch on break segment past leading slant from approach end. Keep points clean by an occasional brush over with petrol applied with small brush. Dirt on points makes for difficult starting and bad running.

OPERATION OF A CONTACT BREAKER.

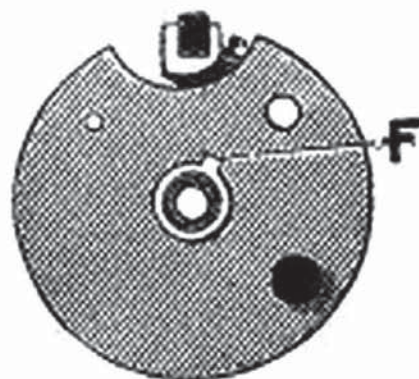
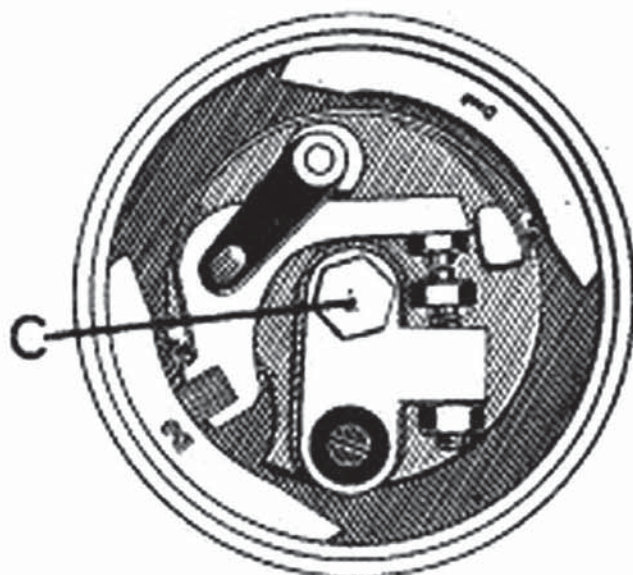
For those who do not understand the operation of a contact breaker, the following hints may be useful to remember:—When Magneto armature is rotating and platinum points touching each other, current is flowing through them. When they are caused to separate by fibre on rocker arm being brought into contact with segment, spark occurs at plug points. To maintain a consistently good spark the points should be kept clean so as to allow free flow of current, and correctly adjusted as per instructions already given, so that break shall occur at correct moment of movement.



CARBON BRUSH AT BACK OF CONTACT BREAKER.

This requires very little attention. If, however, a little oil or grease gets on same, "flashing" will occur at contact points due to resistance.

In such case the carbon brush (D) should be cleaned, also the metal face against which it runs; to do this contact breaker must be removed.



TO REMOVE CONTACT BREAKER.

Unscrew primary screw (C) by

means of the Nut Head, and upon its removal, "Contact Breaker" will pull bodily from its seating. When replacing use great care, first see that key (F) is properly engaged with keyway in shaft; secondly, do not unduly strain primary screw when tightening up. This screw engages with condenser plate, which is necessarily somewhat delicate, inasmuch as the insulation surrounding it, is of great importance. There is ample strength to withstand all working strains, but not sufficient to stand feats of strength being performed on the nut head of primary screw with a big spanner. We mention this for good reason because we have seen several cases of Magnetos being damaged by this pin being screwed up absurdly tight. Secure firmly, certainly, but do not overstrain it; use only the spanner supplied for the purpose, its small size assisting in guarding against overscrewing.

WHEN MAGNETO IS DRIVEN BY CHAIN.

See that chain is adjusted to allow just a little slack, the reason being that there is always a possibility of sprocket wheels or chain not being absolutely true, and thus resulting

in chain being tighter in one position than another. If chain is adjusted to be tight in all positions it causes a severe stress on magneto bearings, and is likely after a time to so strain them as to throw the "Armature" out of alignment with "Pole Shoes" and so originate a train of troubles which will soon develop and cause a general breakdown in the Magneto's efficiency.

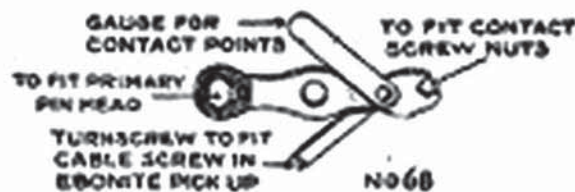
GUARANTEE.

This machine is Guaranteed for a period of Twelve Months. See separate guarantee form enclosed.

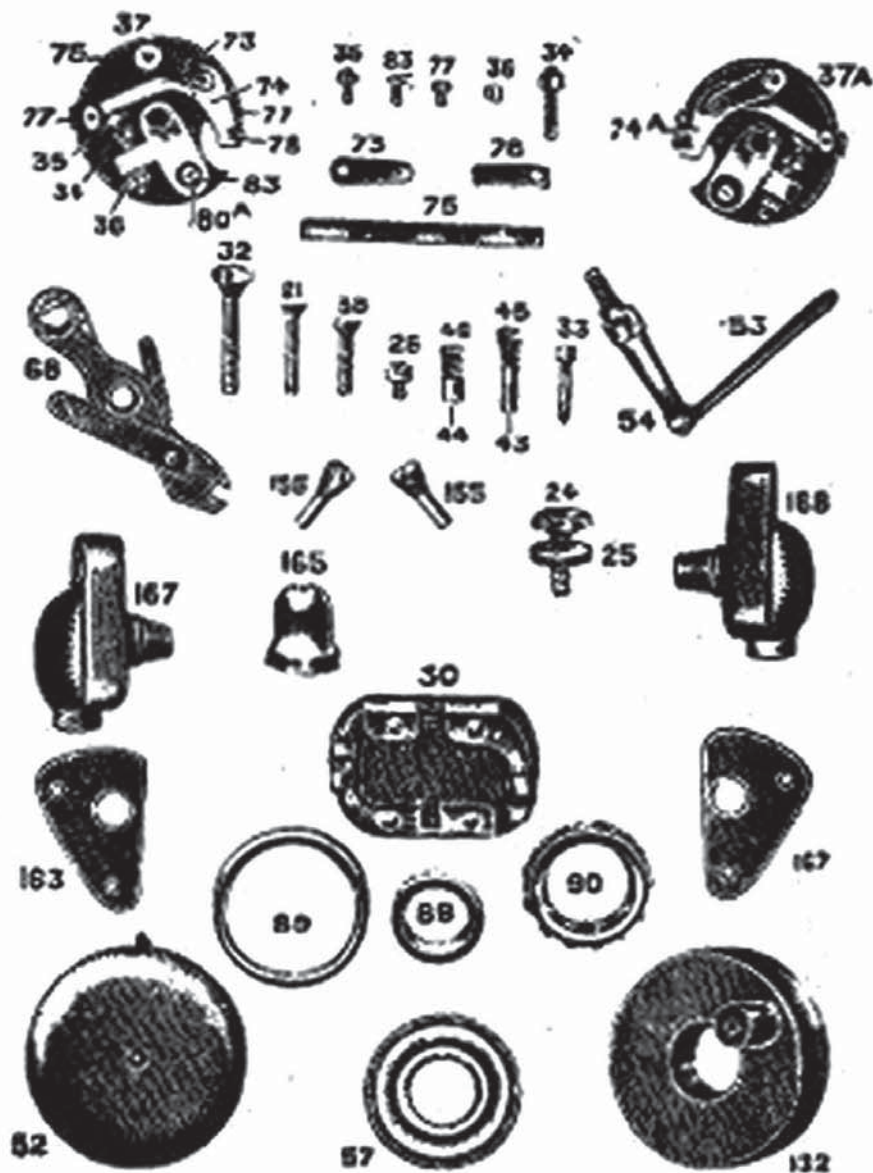
In case of any failure of magneto to give satisfactory results, always make a point of returning the instrument to us complete.

By so doing we are enabled to trace the real cause of failure and thoroughly test the magneto after repair is completed.

So ensuring satisfaction.



Spanner, as supplied with Magneto.



Where not otherwise stated, all parts are interchangeable for both types of Magnetos.

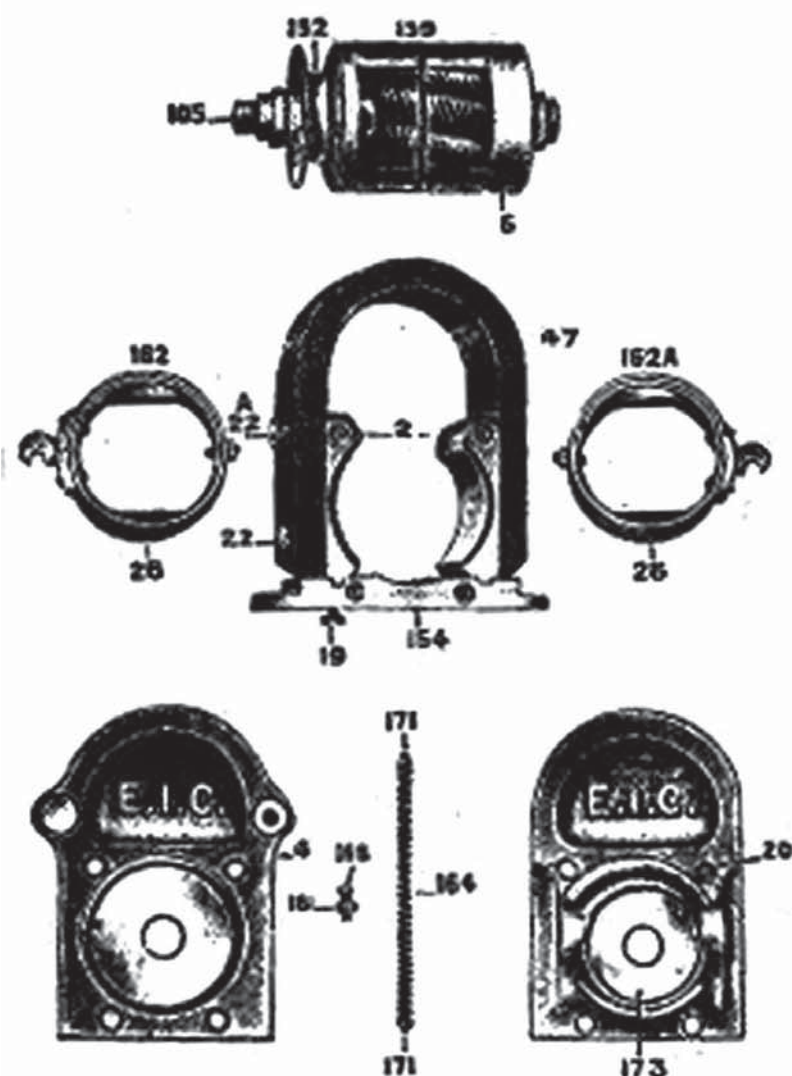
When ordering state (if possible) the make of Motor Cycle or Engine to which Magneto is fitted.

Prices subject to alteration without notice.

LIST OF SPARE PARTS FOR Type A2 and AV2 Ref. D MAGNETOS.

Part No.		Each
37	Contact Breaker, complete (Clockwise or Anti-Clockwise), Type A2	£1/7/6
37	Ditto, Types A2 Ref. D & AV2 Ref. D	£1/7/6
74	Contact Breaker Lever (Clockwise)	3/6
74a	Contact Breaker Lever (Anti-Clockwise)	3/6
34	Platinum Screw, long (Type A2)	7/6
34	Ditto (Types A2 Ref. D and AV2 Ref. D)	7/6
35	Platinum Screw, short (Type A2)	7/6
35	Ditto (Types A2 Ref. D and AV2 Ref. D)	7/6
36	Platinum Screw Nut	2d.
73	Lever Spring	1d.
75	Tension Spring, long	3d.
76	" " short	1d.
77	" " Screw	3d.
78	Block for Lever	1/-
83	Tee Piece Screw	4d.
80a	Bush, short	8d.
24	Drive End Bolt	4d.
82	" " left-hand thread (not illustrated)	4d.
24a	Drive End Washer (numbered 25 in error on illustration)	2d.
32	Primary Pin	6d.
21	Condenser Box Screw	2d.
38	Drive End Screw	2d.
26	Segment Screw	2d.
44	Low Tension Carbon and	3d.
46	Low Tension Spring	1d.
43	High Tension Carbon and	3d.
45	" " Spring	1d.
33	Cable Screw	2d.
68	Magneto Spanner	8d.
155	Pick-up Screw	4d.
53	Dust Cap Spring, and	8d.
54	" " Pins, complete	8d.
167	Pick-up only (right hand)	6/6
168	" " (left hand)	6/6
30	Condenser, complete	10/-
163	Pelt Pick-up Washer	2d.
165	Cable Bush	3d.
38	Inner Cage for Ball Race	3/6
90	Ball Cage	1/6
69	Outer Cage for Ball Race	3/6
57	Ball Race, complete	8/6
52	Dust Cap	4d.
132	Slip Ring	7/6
25	Drive End Nut for Type AV2, Ref. D (not illustrated)	3d.
25a	Drive End Washer, large for Type AV2, Ref. D (not illustrated)	2d.

**LIST OF SPARE PARTS FOR
Type A2 and AV2 Ref. D MAGNETOS.**



Part No.	Each	
7	Drive End Assembly, long, for Type AV2 Ref. D (not illustrated)	9/6
105	Drive End Assembly, short	8/6
132	Slip Ring, Stabilite	7/6
139	Armature, complete with Slip Ring, Ball Races and Condenser	£3/6/6
140	Armature, complete with Slip Ring, Ball Races, and Condenser for Type AV2 Ref. D (not illustrated)	£3/15/0
6	Condenser Box	8/6
162	Segment Sleeve, Assembly (Clockwise)	13/6
162a	Segment Sleeve Assembly (Anti-clockwise)	13/6
26	Segment Screws	2d.
22	Magnet Screw, short	3d.
22a	Magnet Screw, long	3d.
47	Magnet	17/6
2	Pole Shoes, two	per pair 4/-
175	Pole Shoes, (two, for Type AV2 Ref. D (not illustrated))	each 7/6
154	Base for Douglas Type	6/-
4	Contact Breaker, End Plate	7/6
171	Spring Plungers	1d.
164	Control Spring	3d.
20	End Plate Screw	2d.
173	Drive End Plate, minus Outside Ball Race and Screws	7/3
173a	Drive End Side Plate, with Outside Ball Race and Screws	9/6
166	Control Spring Stud	2d.
161	Control Spring Stud Nut	1d.
10	Pole Shoe Screw	2d.
177	Segment Sleeve Assembly for Type AV2 Ref. D (not illustrated)	13/6
180	Base for Type AV2 Ref. D (not illustrated)	8/6

Where not otherwise stated, all parts are interchangeable for both types of Magnetos.

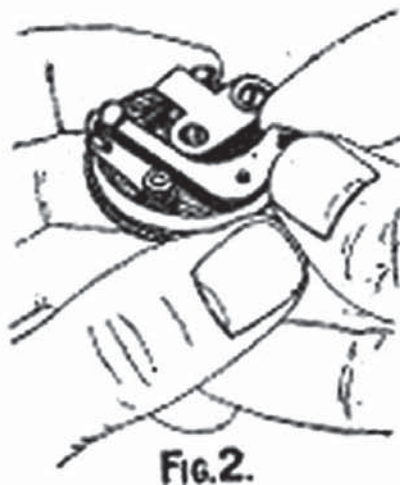
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**A CONVENIENT WAY TO REMOVE
ROCKER ARM FROM
CONTACT BREAKER BASE.**



First loosen for about one turn screws marked A and B, and push small leaf spring C to position as shown. (Fig. 1.)



Then gently raise rocker arm from its bearings. (Fig. 2.)



Rocker arm then remains attached to spring as shown in Fig. 3.

If difficulty is found in lifting with fingers a blunt pointed tool or a wooden match can be used to push rocker arm out from back of contact breaker base.

In the event of a Magneto being returned for any purpose whatever, pack carefully and enclose sender's Name and Address, and (separately by letter) advise despatch, state Magneto reference number, and address to which re-delivery is to be made, setting out, briefly; reason for return.

FOR GUARANTEE SEE OVER

LAUREN & TUCKER, LTD.,

PRINTERS,

25, LOND. ACRES, W.C.2.



MAGNETO GUARANTEE

This is to Certify that E.I.C. magnetos are fully guaranteed. We, E.I.C. MAGNETOS LTD, undertake to replace and fit free of charge any part or parts which (during a period of 12 months from date of magneto leaving our Works) prove faulty in use, due either to material, workmanship or design. This guarantee holds good only providing that magneto is returned to us complete and not disassembled.

For E.I.C. MAGNETOS LTD

H. Turner
MANAGING DIRECTOR

E.I.C. MAGNETO
Types A2 and AV2 Ref. D.

BRITISH MADE
BY BRITISH LABOUR
and

GUARANTEED
FOR ONE YEAR

By
THE MANUFACTURERS

E. I. C.
MAGNETOS
LIMITED,

Sampson Road North
BIRMINGHAM,
England

Wires: Coils, Birmingham. Tel.: 211 Victoria