September 26, 1967

Bulletin #67-21P

#### Six Months Lucas Battery Guarantee

All Lucas batteries are guaranteed against failure due to faulty materials or workmanship for six months after the date of sale. This guarantee applies to both original equipment batteries in new motorcycles, and replacements sold over the counter. If a battery proves defective within this six months period, send us a completed Triumph claim tag to report the failure and we will ship you a free replacement battery. Be sure to give us the part number of the battery, the date of failure, the date the battery was put in service (date the motorcycle or replacement was sold). and the explanation of failure, such as "shorted," "open circuit," "leaking," etc. Claim tags for PUZ5A (12 volt) battery failures MUST also show the battery code number which is located under the white fill strip. Remove the fill strip and you will find the code number between the filler holes. The code number will be one letter and one or two numbers, such as W1, W5, W11, W12, etc. It is not necessary to return the defective battery. The information requested above, however, MUST be given on the claim tag in order for us to honor the claim.

#### Lucas Guarantee Parts

When returning defective Lucas parts under guarantee the claim stubs MUST be attached to the parts. The claim tag must be completely filled out, giving dealers name, model, engine number, mileage, and date part put in service. We must also have the explanation of failure written in.

We must have all of the above information before we can send you free of charge Lucas parts.

#### Exchange Lucas Parts

We also have available exchange Lucas parts such as stators, rotors, regulators, generators, at a good saving to the dealer. We can only supply an exchange unit when we receive, from you, the unit to be exchanged. Refer to Bulletin #67-20P for prices and part numbers of exchange parts that we carry in stock.

FB:ib



February 3, 1967

(Supersedes Service Bulletins 62/10, 63/8, 65/2 and 65/12)

Bulletin 67-4P

RE: Lucas Stators and Rotors Fitted to Triumph Motorcycles - 1954 thru 1967.

#### "A" RANGE

	STATOR	NUMBER OF	ROTOR	No. STAMPED		
RM No.	PART No.	LEADS-COILS	PART No.	ON ROTOR	MODEL	YEAR
RM13	47105	3 <b>-</b> 6	466 <b>12</b> 4	465904	T15, T20 & <b>T20C</b>	54-62
RM13	47177	4 - 6	466 <b>12</b> 4	465904	T20S, T20W, T20SL, T20T,	
O	\ <b></b>	_ /		d 01	T2OSR, & T2OSC E.T. Ign.	59-62
RM18	47161	3 - 6	54 <b>2139</b> 03	54212284**	T20 (w/two piece crankcas	
RM19	47188*	5 <b>-</b> 6	54 <b>21</b> 3901	54 <b>21</b> 58 <b>24**</b>	T20SR, T20SC, T20SM E.T.	
•					(w/two piece crankcase)	62-67
			пВп	RANGE		İ
RMllı	466168	3 <b>-</b> 6	466 <b>2</b> 30	L <sub>1</sub> 65969	5T & 6T	54 <b>-</b> 58
RM15	47127	<b>3 -</b> 6	1,23506	466177	6T	59-61
RM13/15		3 <b>-</b> 6	4 <b>2</b> 3506	1466177	T110, T120, TR7 & TR6	60-61
RM19	47183	3 - 6	54213901		T120R, TR6SR, & TR6SC	62
RM19	47181	3 - 6	54213901		6 <b>T</b>	62
RM19 RM19	կ7162 կ7188	3 <b>-</b> 6 5 <b>-</b> 6	54213901 54213901	54215824** 54215824**	6T, TR6 & T120	63-67
RPLLY	41100	5 <b>-</b> 0	24213301	247T205th	T120TT & TR6C	63-67
			"C"	RANGE		
RM13/15		3 <b>-</b> 6 5 <b>-</b> 6	423506	466177	3TA & 5 <b>TA</b>	58 <b>-</b> 6 <b>1</b>
RM13/15	47149	5 <b>-</b> 6	54211596	54211595	1960 T100A & TR5AR E.T. 1	Ign 61
ד אינו איני	ופזסל	2	d 022 do/	r/	up_to Engine #H21122	
RM13/15	47105	3 <b>-</b> 6	54 <b>21159</b> 6	54211595	TR5AR Battery-Coil Ign	61
RM <b>13/</b> 15	4 <b>7</b> 177	4 - 6	54211596	54211595	after Engine #H21122 TR5AC E.T. Ign up to	61
1412) 2)	4:411	4 0	J4211J/0	J4611J/J	Engine #H25251	0.1
RM19	47188×	5 <b>-</b> 6	54213901	542 <b>1</b> 58 <b>2</b> 4**	T100SC E.T. Ign	62
RM19	47162	3 - 6	54213901	54215824**	3TA, 5TA & T100SR	62-67
RM19	47188	5 <b>-</b> 6	54 <b>213</b> 901	542 <b>1</b> 58 <b>2</b> 4**	TlOOSC E.T. Ign	63-67
みからへ カク	INK fire le	and Staton has	annomoded .	Lha 1.7172	Josef Chatter was a second as a first	

\*The 47188 five lead Stator has superseded the 47173 four lead Stator previously fitted to E.T. Ignition models. In this application the black-yellow lead from the 47188 Stator must be grounded.

\*\*54213901 rotor may be stamped either 54212006 or 54215824.

#### SUPERSESSIONS

47105---supersedes---47119, 47124, 47137, 47168, 465915, 468678, & 468973

47127---supersedes---469427

47171---supersedes---47134 & 47178

47177---supersedes---47138, 47165, 47166, & 47175

47181---supersedes---47164

47188---supersedes---47173

54213901---supersedes---54214272 & 54215824

February 24, 1967

Bulletin No. 67-6P

### PARTS CATALOGUE CORRECTIONS

Please make the following corrections in your parts catalogues immediately.

### REPLACEMENT PARTS CATALOGUE NO. 8 FOR 1967 "C" RANGE MODELS

Ref. No.		Corrections	
9	ADD;	54419124 Cam for battery ignition models (new 160° type)	
	ADD:	54415751 Sleeve and Action Plate for T100R models.	18 CA
1	CHANGE:	T1476 to T1476/18. All sprockets listed are available from officers	
11 2	NOTE:		F. 77 150
8 & 9	DELETE:	H2100 Top Lug, and H1527 Bonded Bushings. Not fitted to 1967 "C" range models. All 1967 "C" range models are fitted with the H2099 Top Lug as illustrated on page 52. H2100 Top Lugs and hardware for rubber mounted handlebars are stocked if this type of mounting is desired.	
7	NOTE:	H1696 Covers are stocked for use if headlight is removed, but are not fitted as original equipment to 1967 "C" range models.	·
	NOTE:	Although not fitted to U.S. models, many parts for Q.D. wheels are stocked. See page 57, #5 "B" range parts catalogue for parts stocked. ONLY the items for which prices are shown on the stick-on price list are available.	
10	NOTE:	F1717 Petrol Taps, although not fitted to 1967 T100 models as supplied to the Eastern United States, are available from our parts stock. This petrol tap is an excellent accessory to offer riders desiring a petrol tap incorporating a reserve fuel supply feature. Repair kits are also available for these petrol taps, Part No. CD480.  Parcel Grids and Mounting Screws are available from our parts stock for use on gas tanks supplied with the	
	9	9 ADD; ADD:  1 CHANGE: NOTE:  11 NOTE:  7 NOTE:  NOTE:	ADD: 5hhi912h Cam for battery ignition models (new 160° type), ritted as standard equipment to all 1967 T100R models.  ADD: 5hh15751 Sleeve and Action Plate for T100R.  5hh157h7 Sleeve and Action Plate for T100C.  1 CHANGE: T1h76 to T1h76/18. 1 NOTE: All sprockets listed are available from steck if gearing changes at the gearbox are desired.  11 NOTE: Correct part number for this stud is F3665.  8 & 9 DELETE: H2100 Top Lug, and H1527 Bonded Busnings. Not fitted to 1967 "C" range models.  All 1967 "C" range models are fitted with the H2099 Top Lug as illustrated on page 52. H2100 Top Lugs and hardware for rubber mounted handlebars are stocked if this type of mounting is desired.  7 NOTE: H1696 Covers are stocked for use if headlight is removed, but are not fitted as original equipment to 1967 "C" range models.  NOTE: Although not fitted to U.S. models, many parts for Q.D. wheels are stocked. See page 57, #5 "B" range parts catalogue for parts stocked. ONLY the items for which prices are shown on the stick-on price list are available.  10 NOTE: F1717 Petrol Taps, although not fitted to 1967 T100 models as supplied to the Eastern United States, are available from our parts stock. This petrol tap is an excellent accessory to offer riders desiring a petrol tap is an excellent accessory to offer riders desiring a petrol tap is an excellent accessory to offer riders desiring a petrol tap is an excellent accessory to offer riders desiring a petrol tap is an excellent accessory to offer riders desiring a petrol tap is an excellent accessory to offer riders desiring a petrol tap is an excellent accessory to offer riders desiring a petrol tap is an excellent accessory to offer riders desiring a petrol tap in corporating a reserve fuel supply feature. Repair kits are also available for

### REPLACEMENT PARTS CATALOGUE NO. 5 FOR 1907 "B" RANGE MODELS

Page No.	Ref. No.		Corrections
27		AD1/:	54415751 Sleeve and Action Plate for Tl2OR and TR6R. 54415747 Sleeve and Action Plate for Tl2OTT and TR6C.
49 <b>a</b> n	10	NOTe:	The correct part number for the new fork lock is
51	3		F6738 as listed in the parts catalogue. The number F6728 in Bulletin No. 66-2P is a typographical error and should be corrected to F6738.
·			

SPECIAL NOTE: Where it is stated in our correction bulletins that an item is "not fitted to U.S. models," this means ONLY that the part is not fitted at the factory to that particular range as supplied that year to the Eastern United States. These same parts may very well be fitted to other Triumph ranges, or may be available from our parts stock.

teto Borny

March 6, 1968

Bulletin #68-7P

TO ALL EASTERN TRIUMPH DEALERS

SUBJECT: 1968 "B" Range Parts Book No. 6 (Tan Cover)

1968 "C" Range Parts Book No. 9 (Green Cover)

We are sending every dealer a copy of the new Parts Books.

Included with each book will be a printed list showing suggested retail price of each part. The list has a self-adhesive backing so you can quickly insert the prices on each page between the reference number and part number column.

This plan has been developed to help you make better use of your "B" and "C" Range Triumph Parts Books and to provide you with current price information covering the latest and most popular 650cc and 500cc models.

We are charging \$1.00 for each price list.

You can order additional copies of Triumph Parts Books for the regular price of \$1.76 net.

Very truly yours,

THE TRIUMPH CORPORATION

S. E. Lovell, Parts Manager

SEL:ib

April 20, 1967

Bulletin 67-7P

MOUNTING INSTRUCTIONS FOR CD464 COMBINATION LUGGAGE RACK/SEAT RAIL 1967 "B" & "C" Range Machines

#### Hardware

- 1 R.H. Rear Support Bracket
- 1 L.H. Rear Support Bracket
- 2 1/4-28 14 Hex Head Cap Screw
- 2 1/4-28 ½ Hex Head Cap Screw
- 4 1/4 Lockwasher
- 4 1/4-28 Hex Nuts
- 2 1/4 x 3/4 0D x 5/8 length Spacer

Remove F5424 lifting handle and install F7850 lifting handle, do not install the two fender bolts in lifting handle at this time. Assemble R.H. and L.H. rear support brackets to rear holes in side plates of luggage rack using the two 1/4-28 x 1/2 hex head cap screws, two 1/4-28 nuts and two 1/4 lockwashers. Mount luggage rack to frame by attaching side rails to the holes in the frame just in front of top shock mounts with the two 1/4-28 x 1/4 hex head cap screws, two 1/4 hex nuts, two lockwashers and two 1/4 x 3/4 0D x 5/8 length spacers. The 1/4 x 3/4 spacers are placed between the side rails of the luggage rack and the motorcycle frame. Attach the two rear brackets to the F7850 lifting handle.

NOTE: When fitting saddlebags to this carrier CD466/B Bracket Set must be used for "B" Range and CD466/C Bracket Set for "C" Range machine.

### MOUNTING INSTRUCTIONS FOR CD466B AND CD466C SADDLE BAG MOUNTS

### "B" Range

Attach lower front to muffler bolt. Attach upper rear to rear hole in side plate of luggage rack.

### "C" Range

Attach lower front by pillion footrest bolt. Attach upper rear to rear hole in side plate of luggage rack.

April 20, 1967

Bulletin 67-8P

MOUNTING INSTRUCTIONS FOR CD469
COMBINATION LUGGAGE RACK/SEAT RAIL
1963 to 1966 "B" and "C" Range Machines

#### Hardware

- 2 1/4-28 x 1 Hex Head Cap Screw
- 2 1/4-28 Hex Nut
- 2 1/4 Lockwasher
- 2 1/4 x 3/4 OD x 5/8 length Spacer
- 1 5/16-24 x 3/4 Hex Head Cap Screw
- 1 5/16-24 Hex Nut
- 1 5/16 Star Washer
- 1  $5/16 \times 3/4 \times 1/4$  length Spacer

Late 1966 models must use F7850 lifting handle. The bend on the left side of late 1966 lifting handles interferes with the left side rail of the Luggage Rack.

Mount the luggage rack to the frame by attaching the side rail to the holes in the frame just in front of the top shock mounts with the two  $1/4-28 \times 12$  hex head cap screws, two 1/4-28 hex nuts, two 1/4 lockwashers and two  $1/4 \times 3/4$  0D x 5/8 length spacers. These spacers are placed between the side rails of the luggage rack and the motorcycle frame. Remove the rear bolt of the fender clip that attaches fender to rear frame. Attach the front cross rail of the rack to the rear bolt hole of fender clip using  $5/16-24 \times 3/4$  cap screw, 5/16 hex nut, 5 tar washer and  $5/16 \times 3/4$  spacer. Spacer is placed between fender clip and front cross rail.

NOTE: When fitting saddlebags to this carrier CD466/B Bracket Set must be used for "B" Range and CD466/C Bracket Set for "C" Range machine.

### MOUNTING INSTRUCTIONS FOR CD466B AND CD466C SADDLE BAG MOUNTING BRACKETS

### "B" Range

Attach lower front to muffler bolt. Attach upper rear to rear hole in side plate of luggage rack.

### "C" Range

Attach lower front by pillion footrest bolt. Attach upper rear to rear hole in side plate of luggage rack.

June 19, 1967

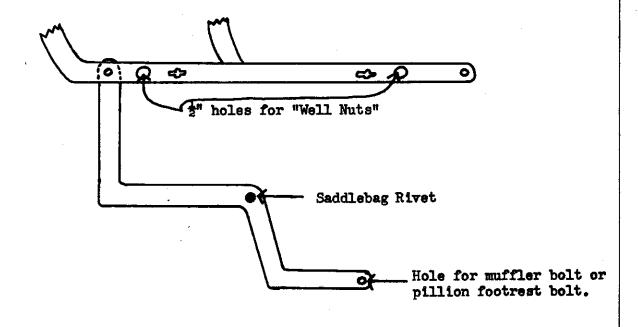
67-9P

#### SUBJECT: CD466B AND CD466C LOWER SADDLEBAG MOUNTS

The CD466B and CD466C Lower Saddlebag Mounts are used in conjunction with the CD464 and CD469 Combination Accessory Groups to mount CD144 or CD279 saddlebags. The CD466B mounts are used on 650cc models, and the CD466C mounts on 500cc models.

#### MOUNTING INSTRUCTIONS:

- 1. Attach the lower saddlebag mount at the upper rear using the rear support bracket bolts of the Combination Accessory Group. On 650cc models, use the muffler bolt to attach the saddlebag mount at the lower front, and on 500cc models use the Pillion Footrest Bolt (see illustration below).
- 2. Insert the rubber-covered "Well Nuts" supplied with the lower saddlebag mounts into the large ½" holes in the side rails of the Combination Accessory Group from the outside.
- 3. Hook one of the slots in the steel backing plate attached to the saddlebag on the rivet welded to the lower saddlebag mount and position the mounting holes in the saddlebag over the "Well Nuts".
- 4. Insert the 1-1" machine screws through the holes from inside the bag, using the spring clips as washers for the screws. As the screws are tightened the "Well Nut" will expand behind the side rail to firmly secure the saddlebag in place.



August 1, 1967

Bulletin #67-11P

#### SUBJECT: 200cc "A" RANGE GEARBOX CHANGES

Please make the following notations in your No.1 "A" Range Parts Catalog for 1966-167;

Page No.	Ref. No.	Notation
21	7	T2449 Mainshaft fitted from engine number 3855 ("Stub Tooth")
▼	15	T2326 Layshaft Low Gear fitted from engine number 3855 ("Stub Tooth")
	Add note:	Use T2328 Mainshaft Low Gear to up-date T1588 Mainshaft to the
		"Stub Tooth" condition.

The factory has made a notable mid-year change in the 200cc "A" Range gearbox. The T1095 Layshaft Low Gear has been replaced by the new T2326 Layshaft Low Gear, and the T1588 Mainshaft replaced by the new T2449 Mainshaft. Both the T2326 Layshaft Low Gear and the low gear fitted to the T2449 Mainshaft are now of the well-proven "Stub Tooth" design. The teeth on "Stub Tooth" gears are shorter, allowing the base of the gear to be thicker, thus affording greater strength for the gear and more support for the gear teeth.

The "Stub Tooth" gears cannot be used against gears of the earlier pattern, and must be installed in matching sets. For this reason, your orders for the earlier pattern T1095 Layshaft Low Gear will be filled with the new T2326 Layshaft Low Gear together with a T2328 Mainshaft Low Gear which must be pressed onto the earlier pattern mainshafts after removal of the original mainshaft low gear.

A good stock of the earlier pattern T1588 Mainshafts is on hand here, but when this stock is exhausted the new T2449 Mainshaft will be supplied. If the new T2449 Mainshaft is then fitted to models previous to engine number 3855, the original T1095 Layshaft Low Gear must be replaced also with the new T2326 Layshaft Low Gear. The two layshaft low gears are easily distinguished from one another as the T2326 has much smaller "windows" in the back side into which the layshaft third gear "dogs" engage.

For your information the T1095 Layshaft Low Gear was used in all "A" Range gearboxes from 1954 thru 1967 up to engine number 3855. The T1588 Mainshaft was used in standard and wide ratio "A" Range gearboxes from 1954 thru 1967 up to engine number 3855.

The following should be noted in your 1967 Triumph Replacement Parts Price List:
Page 35 - - Tl095 change to (1) T2326 and (1) T2328

Page 37 - - T1588 can use T2449.



August 2, 1967

Bulletin 67-12P

TO ALL DEALERS:

All Bell Helmet models have passed and exceeded the highest standards approval for helmets specified by the United States Standards Institute specification Z90.1-1966.

The following list of states have a compulsory helmet law and Bell helmets are approved and legal in all of them.

Alabama Indiana Georgia Kansas Michigan Minnesota New York North Carolina South Carolina South Dakota Tennessee Texas

Maine

Oregon

State of Washington

Massachusetts

New York, Michigan and perhaps some other states have two additional requirements.

- 1. Every approved helmet must have reflectorized material of an area at least four square inches affixed with permanent adhesive to both right and left hand side.
- 2. Each approved helmet must be labeled on the outside of the helmet (above the base of the rear with letters at least 1/4 inch in height) with the trade name and the appropriate model name, or model number. We have kits of material that can be added to Bell helmets so they comply with New York and Michigan helmet laws.

You can continue to order, stock and sell Bell helmets with the knowledge that they have passed all standards set up by the aforementioned states that have helmet laws in effect.

Very truly yours,

THE TRIUMPH CORPORATION

S. E. Lovell, Parts Manager

SEL:1b

P.S. Please advise us if your state law requires the reflectorized tape and markings as shown above for New York and Michigan.

August 3, 1967

Bulletin #67-13P

#### NEW ACCESSORY!!

The Triumph Corporation proudly announces its appointment as Eastern United States distributor for the Dunleer 'helmet-lok'.

Here's a brand-new idea in accessories that practically sells itself! In fact, the only trick to selling the 'helmet-lok' is keeping enough in stock!

The 'helmet-lok' is being nationally advertised in all the leading motorcycle publications, so be sure to order a good 'helmet-lok' stock to supply the demand. The enclosed sheet gives full particulars on the 'helmet-lok', both models of which are now in stock at The Triumph Corporation for immediate delivery.

The 'helmet-lok' is attractively packaged for display with your helmets - remember that every helmet customer is a potential 'helmet-lok' sale! Both 'helmet-lok' models list for \$4.95, and your cost on either is only \$2.97. The handy order form below is for your convenience, and may be used for your initial 'helmet' order.

THE TRIUMPH CORPORATION POWSON, BALTIMORE, MD. 21204

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IDM: 10		
GOT A HELMET AND WANNA K	EEP IT? GET A 'HELMET-LOK'	1.1
(	cut here)	
THE TRIUMPH CORPORATION TOWSON, BALTIMORE, MD. 21204	Date	
Yes, send us the following 'helmet-lok' mod	els:	
Model 101 (for "full-coverage" h	elmets)	
Model 103 (for "shorty" helmets)		
Ship to		<del> </del>
Address		
City	_ State Zip Cod	
By	Title	

October 23, 1967

67/14

TO ALL EASTERN TRIUMPH DEALERS:

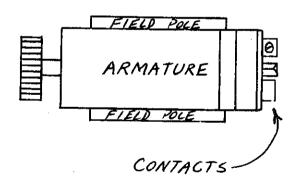
SUBJECT: A. C. Ignition (E. T.) & A. C. Lighting System - Lucas RM19 Equipment

#### A. C. Ignition (Energy Transfer)

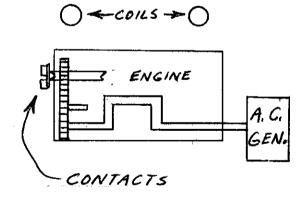
There are several important principles to remember when dealing with the A. C. ignition system:

- 1. A magneto is basically an A. C. Generator with a switch (the contacts) and a high tension coil connected to it.
- 2. On pre-1963 Triumph models, the Lucas magneto was a one-piece self-contained unit in which the contacts were <u>directly connected</u> to the A. C. generator part of the magneto. In the A. C. ignition system the A. C. generator part of the magneto is in the primary i.e., the rotor and stator; and the contacts and high tension coils are respectively on the end of the exhaust camshaft and on the frame.

### MAGNETO



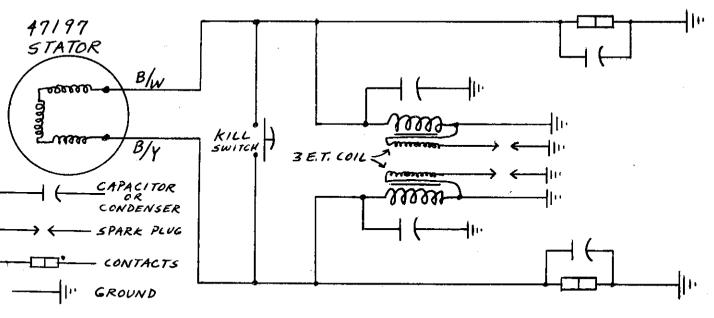
### A.C. IGNITION



The point is that the relationship between the A. C. generator part of the A.C. ignition system and the contacts is variable. These parts are not directly connected in a self-contained unit as is the case with Lucas or other magnetos. By changing the relative position of the rotor and stator or the timing between the contacts and rotor/stator unit, the performance of the A.C. ignition system can be drastically altered. The manufacturer of the motorcycle and electrical system specify the relationship of these parts and it is EXTREMELY IMPORTANT that this relationship not be altered for proper performance of the ignition system.

Now let us examine an A.C. <u>ignition</u> circuit using the latest encapsulated stator #47197 for our example:

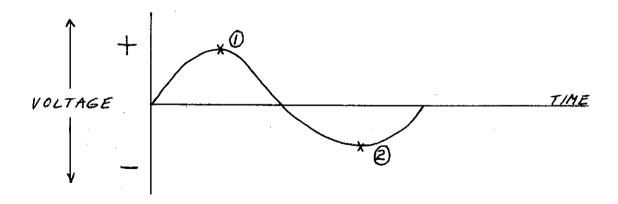
### A.C. IGNITION SCHEMATIC



The stator windings must form a closed circuit (thru ground) in order that the rotor/stator can generate an A.C. voltage output. Remember a basic rule of electricity - electric current always takes the path of least resistance.

Bear in mind that the A.C. ignition cam has a very short "open" time and it is possible for both sets of contacts to be closed at one time. The cam is shaped approximately as shown:

When a complete path thru ground is created (both contact sets closed), an A.C. voltage is generated by the alternator (rotor/stator unit). A voltage versus time graph of this A.C. voltage output is shown below:



For maximum efficiency, the rotor/stator and the ignition contacts must be timed so that the points open very close to the point where the generated A.C. voltage is a maximum, i.e., points 1 & 2. This correct timing is assured if the rotor is timed to the engine crankshaft correctly.

There are three holes drilled in all latest rotors (#54213901) to accurately time the rotor to the stator. For optimum performance, the position in which the rotor is fitted MUST correspond with the number of degrees before top center that you wish to time the ignition at. Referring to the figures below:

"S" --- 37° B. T. D. C.
"M" --- 39° B. T. D. C.
"R" --- 41° B. T. D. C.

Looking at the A.C. Ignition schematic, the ignition system functions as follows:

With both sets of contacts closed, A.C. is generated in the stator windings. This A.C. flows thru one set of contacts, thru ground, and thru the other set of contacts back to the stator to complete the circuit. Notice that the current takes the path of least resistance (in theory) and does not flow thru the relatively high impedance primary winding of the coil when the contacts are closed.

When one cylinder's contacts open the only path thru which the current can travel to ground and complete the circuit is thru the primary winding of that cylinder's coil. With the one set of contacts open, current leaves the stator, flows thru the coil's primary winding to ground; thru ground back thru the other set of contacts and back to the stator. The current flowing in the primary of the 3 E.T. coil induces a high voltage in the secondary winding of the coil. It is this high secondary voltage that is dissipated across the spark plug gap as a spark. An important point to remember here that applies to any ignition system is that the coil will only develop as much voltage as is necessary to "fire" the spark plug. The other cylinder fires in a similar manner when its contacts open.

When the kill button is pushed, current will again take the path of least resistance and flow from the stator thru the kill button and back to the stator. In effect, the coils and contacts are short circuited and the engine will not fire.

From the above explanation, it is obvious that the contacts play a critical role in the ignition system's efficiency. Indeed, the efficiency of one cylinder's ignition depends heavily on the other cylinder's contact set! As a result of this, it is EXTREMENY IMPORTANT that both sets of contacts be clean and properly gapped. Current must flow thru one or both sets of contacts at all times; therefore these contacts must offer as little resistance to current flow as possible. MAKE SURE YOUR FEELER GAUGE IS CLEAN when gapping contacts. Also, all the wiring and connections in the ignition system must be good. There can be no frayed or pinched wires, or dirty or poorly soldered connections any where in the wiring.

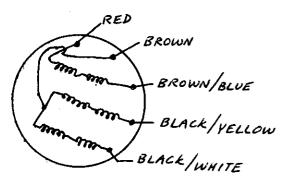
Troubleshooting A.C. Ignition is remarkably easy once you understand how the system functions. It is more involved than battery ignition troubleshooting however because you must run the engine from another ignition source while you check the alternator's (ignition winding) A.C. voltage output. Proceed as follows:

- 1. Be sure the rotor/stator timing (S, M, or R) corresponds with the ignition timing (37°, 39°, or 41° B.T.D.C.) you desire.
- 2. Check that the range of the auto-advance mechanism is the proper 5° (10 crankshaft degrees). This 5° will always be stamped on the back of the proper sleeve and action plate for A.C. ignition (#54415747). Do not try to use an auto advance mechanism with over a 5° range as the A.C. ignition system is not designed to function properly over a larger advance range.
- 3. Be sure that the contacts are clean and gapped properly (.016-.014"). Check that the spark plugs in the engine are clean and properly gapped (.020"). Time the contacts to open at either 37°, 39°, or 41° B.T.D.C. corresponding to the way the rotor is timed. Check that excessive runout or wobble of the ignition cam is not opening the contacts prematurely. The contacts should be closed all the way around the heel of the cam.

For normal servicing of an A.C. ignition equipped motorcycle, the above 3 steps are all you should have to do to the ignition for the engine to run properly. If the engine will not fire at all or misfires when running, you must proceed as follows:

1. Disconnect all 5 stator leads from the alternator side of the connector under the engine. Using an ohmmeter or Tricor #233 test light, check the stator for shorts or opens as follows:

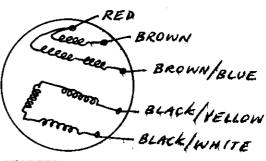
### 47/88 STATOR



#### SHORTED WINDING TEST:

- 1. There should be no continuity between any stator lead and the metal stator frame or a good clean ground on the engine.
- 2. There should be no continuity between the Red or Brown/Blue lead and any of the other 3 leads (Brown, Black/Yellow, or Black/White).

### 47/97 STATOR



#### SHORTED WINDING TEST:

- 1. There should be no continuity between any stator lead and the metal stator frame or a good clean ground on the engine.
- 2. There should be no continuity between a Black/Yellow or Black/White lead and any of the other 3 leads (Brown, Brown/Blue, or Red).

#### **OPEN WINDING TEST:**

- There should be continuity between any combination of the Brown, Black/Yellow, or Black/White leads.
- 2. There should be continuity between the Red and Brown/Blue leads.

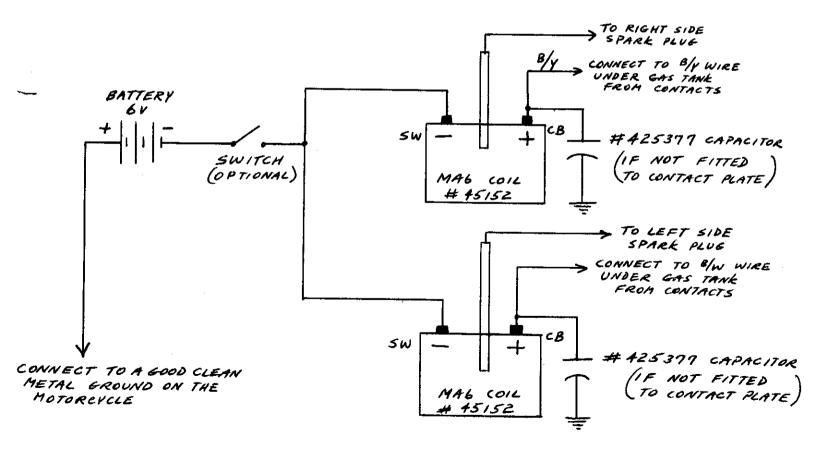
#### OPEN WINDING TEST:

- 1. There should be continuity between any combination of the Red, Brown, or Brown/ Blue leads.
- 2. There should be continuity between the Black/Yellow and Black/White leads.

By performing the above terms, you have checked the complete stator (both ignition and lighting windings) for shorts and opens. If the stator fails any one of these tests, you must replace it before proceeding further.

It is extremely unlikely that there is anything wrong with the alternator if the stator passes the above tests. To be dead certain however, you must make the following test of the alternator's A.C. voltage output.

To perform this test, you must make up a "power pack" to run the engine on while the stator is disconnected from the ignition system. Complete instructions are to be found in the CD411 or CD446 workshop manuals; however, the simple diagram for this "power pack" is shown below. It will be easy to construct the "power pack" from this diagram.



USE 16ga WIRE

IMPORTANT -- Run the engine only long enough to make the necessary test readings with this "power pack." The MA6 ignition coils are not designed to be run with such a long dwell ignition cam as the A.C. ignition cam. The long dwell will cause excessive current in, and overheating of the primary winding of the 6V coils.

#### ALTERNATOR IGNITION WINDING OUTPUT TEST:

Using a Tri-Cor "750" electrical test set or an equivalent test set that <u>MUST</u> contain a 1 ohm at least 100 watt resistor in it, do the following:

- 1. Turn the voltmeter switch to A.C. Turn the load resistor ON.
- 2. Connect one voltmeter lead to the Black/Yellow lead from the stator.
- 3. Connect the other voltmeter lead to the Black/White lead from the stator.
- 4. Start the engine and run it at 3000 rpm (approximately 45 mph in 4th gear). Note the A.C. voltmeter reading. For both 47188 and 47197 stators, you must have a minimum output of 2.0 volts A.C.
- 5. If you have a 47188 stator, change one voltmeter lead from the Black/Yellow lead to the Brown lead. The reading obtained here should also be a minimum of 2.0 volts A.C.

If you have the required readings, the stator is positively good.

If you do <u>not</u> have a minimum of 2.0 volts A.C., then this indicates a faulty stator, demagnetized rotor, or that the rotor is not turning with the crankshaft. It will be necessary to remove the primary cover and check the rotor at this point. If it is turning with the crankshaft and is not demagnetized, then the stator must be replaced.

With the "power pack" removed and the good stator's ignition leads (B/Y, B/W) connected back into the motorcycle's wiring system, the ignition system should perform well at this point. If it does not, then further testing will be necessary to isolate the bad coil or capacitor that is causing the problem.

There are only 3 possible troubles a capacitor can have: it can be shorted, open, or leaky. Test as follows using an ohmmeter or, for the short test, a Tri-Cor #233 test light.

#### CAPACITOR SHORT TEST:

There should be no continuity between the lead and metal case of the capacitor.

#### CAPACITOR OPEN TEST: Using only an ohmmeter

Place one ohmmeter lead against the capacitor case and connect the other ohmmeter lead to the capacitor lead. Reverse the connections and you should see the ohmmeter needle "kick" slightly as the capacitor discharges. Use the highest resistance range of your ohmmeter for this test -- i.e., R x 10%.

#### CAPACITOR LEAKINESS TEST:

This test can only be made with a capacitor tester. It is highly unlikely the capacitor is leaky.

#### COIL TESTS:

As a quick check on the coils, use an ohmmeter to determine if the primary or secondary winding is open.

#### 1. Primary Open Test:

There should be continuity between the Lucar terminal and the bare ground wire.

#### 2. Secondary Open Test:

There should be continuity with some resistance between the bare ground wire and the metal pin in the spark plug wire hole of the coil.

At this time it is a good idea to insert the spark plug wire back into its coil hole and check for continuity again between the plug end of the spark plug wire and the coil ground wire. If, or once you have continuity between these points, 3M or flexseal the lead to the coil.

It is improbable that the coil will pass these tests and the bike still run poorly due to ignition trouble. As a final check however, if necessary substitute a new coil if one cylinder of the engine still fires erratically.

One final possibility of trouble lies at the kill button. Remove it from the electrical system by disconnecting the B/Y and B/W wires at the connecters under the gas tank. There should be no continuity thru the switch when the button is released and continuity thru the switch when it is depressed. The battery ignition kill switch (brown button, instead of black as on the A.C. ignition models) grounds the two leads in addition to connecting them together, and can be used on the A.C. ignition system if need be.

#### A.C. LIGHTING SYSTEM

A.C. lighting is straightforward once the system is understood.

#### ALTERNATOR LIGHTING WINDING OUTPUT TEST

Again, the first thing to check is the A.C. voltage output of the stator's lighting windings. Proceed as follows using the Tri-Cor "750" test set:

- 1. Disconnect the lighting winding leads under the engine from the alternator side of the connecter. These 2 or 3 leads are the Red, Brown on the 47197 stator, and Brown/Blue leads. (You have already checked the Brown lead on the previous alternator output test if you have the 47188 stator.)
- 2. Turn the voltmeter switch to A.C. Turn the load resistor ON.

- 3. Connect one voltmeter lead to the Red stator lead.
- 4. Connect the other voltmeter lead to the Brown/Blue stator lead.
- 5. Start the engine and can it at 3000 rpm. On the 47197 stator, switch the voltmeter lead from the Brown/Blue to the Brown stator lead after taking the first voltage reading. You should observe the following minimum A.C. voltage readings;

Red - Brown/Blue -- 5.0 volts A.C. (47197) Red - Brown -- 5.0 volts A.C.

If these minimum voltages are obtained, the stator's <u>lighting winding output</u> is O.K. Any lighting fault must lie in a short or open somewhere in the motorcycle's wiring system. By following the wiring diagrams in the workshop or owner's manuals, you can easily isolate and repair the fault.

If you have not already done so in the previous tests, check the stator for opens or shorts. Look for a non-rotating or demagnetized rotor if the stator checks O.K. If the rotor is magnetized and turning with the crankshaft and you still have no or low A.C. voltage output, the stator will have to be replaced.

#### GENERAL COMMENTS ON A.C. LIGHTING

Generally, two problems arise with the A.C. lighting system - either too much A.C. voltage output which blows bulbs or too little A.C. voltage output which results in dim lighting. Unfortunately, for a given load, the A.C. output of the alternator is solely dependent on engine RPM in the Lucas direct lighting system.

The most important thing to remember when working with the A.C. lighting system is to make sure that the correct wattage light bulbs are being utilized in the electrical system. These are:

6V Headlight -- 24/24 watts Lucas #166 6V Stop & Taillight -- 6/18 watts Lucas #384

Use of higher wattage light bulbs than these above will result in dimmer lighting throughout the engine's rpm range.

On the non-encapsulated 47188 stators, use of a higher wattage stop light than the Lucas #384 will place an additional load on the stator's ignition windings and may cause stalling or misfiring of the engine when the stop light is on. Additionally, on these 47188 stators it should be obvious that any short to ground in the stop light circuit will cause ignition trouble. The electrical advantage of the 47197 encapsulated stator is that the stop light winding is no longer connected to the ignition windings.

Faster and better service to your customer and increased profits will result from an understanding of the preceding description of the A.C. ignition and lighting systems. Study the descriptions and diagrams until the operating and testing PRINCIPLES are committed to memory.

Very truly yours,

THE TRIUMPH CORPORATION

Service Manager

Rod Coates:ib

August 4, 1967

Bulletin #67-14P

#### SUPPLEMENT FOR PARTS CATALOGUE NO. 5 - 196 650cc MODELS

Enclosed with this bulletin is a supplement for your green No. 5 Parts Catalogue for 1967 650cc models. This supplement covers the new Type 900 "Concentric" Amal Carburstors as fitted to all Tl2OR models from engine number DU59320. You should immediately order replacement parts for these carburetors if you have not already done so previously. You can expect the same items to wear on these carburetors as do on "Monobloc" carburetors, i.e. throttle slides, throttle cables, choke cables, etc. You can also expect calls for the following: cable adjusters and locknuts, screws, throttle needle clips, floats, joint washers, air screws, 'O' rings, etc. After ordering the parts, be sure to attach the supplement to your No. 5 Parts Catalogue for future reference.

#### "CONCENTRIC" CARBURETOR STOCK

In addition to the standard "Concentric" carburetors fitted to late 1967 Tl2OR models, R930/9 and L930/10, we also stock the following for various applications:

R932	Right/hand Carburetor -	32mm	(1½") bore\$37.50A
L932	Left/hand Carburetor -	32mm	$(1\frac{1}{4}")$ bore\$37.50A
928	Right/hand Carburetor -	28mm	(1 1/8") bore\$37.50A
930	Right/hand Carburetor -	30mm	(1 3/16") bore\$37.50A

The right/hand type "Concentric" carburetor is normally fitted to single-carburetted models, but may also be used in pairs for dual carburetted models due to the accessability afforded by the new "Concentric" design. Parts are interchangeable throughout the entire 900 series with the exception of the carburetor bodies themselves.

#### NEW - HARD CHROME STEM RACING VALVES

Now in stock - valves with hard chromed stems for late 650cc models. These hard chromed stems reduce friction and wear to an absolute minimum. The stems are approximately .OOI" larger in diameter than the standard valves due to the hard chroming, thus offering additionally a closer fit in the valve guides and more positive valve seating. The E2904KE/CH Exhaust Valve, and E4603KE/CH Inlet Valve are interchangeable with the standard valves fitted to all 1964-167 T120 models, and 1967 TR6 models. Both valves are made of highest quality nickel-chrome alloy steel for strength and durability. The suggested list price on either valve is \$6.50, and your cost on either is \$3.25.

#### CD520 "GRANTURISMO" RALLY HANDLEBAR GRIPS

These new "Granturismo" Rally handlebar grips, although similar in construction to the standard handlebar grips fitted to 1967 'B' and 'C' ranges, are in actuality a totally-new design from "Granturismo." Same highest quality construction, but in a style to really compliment the motorcycle. "Granturismo" Rally grips come packaged in pairs with their own vial of glue. These grips fit not only all current Triumph models, but most other English motorcycles as well. The suggested list price on the CD520 "Granturismo" Rally grips is \$2.50, and the dealer cost is \$1.25. You've got to see these new grips to appreciate them, so order some on your next parts order! Available in black only.

August 10, 1967

Bulletin #67-16P

#### PARTS MANAGER'S INDEX

Enclosed with this bulletin is the factory's Parts Manager's Index covering 1967 "B" and "C" Ranges. This Index is a brand-new service from the factory, and can be most helpful in determining part usage and location on the machine. The introduction on page 2 of the Index outlines the many uses for the Index in more detail. Quantities of the Index are limited, and we are able to provide only one Index to each dealer at this time, so please do not request a replacement if your copy is lost or destroyed. If more copies of the Index are made available, you will be notified and they will be issued on a first come - first serve basis in limited amounts.

#### CD411 WORKSHOP MANUALS FOR UNIT CONSTRUCTION 650cc MODELS

Now arriving from the factory is the latest edition of the CD411 Workshop Manual which covers 1963-167 650cc models. The new CD411 manual can be easily identified by its new blue-lettered cover. If you have not already received these new manuals, several should be ordered on your next parts order. Supplements to up-date previous manuals to 1967 specifications are not as yet available, so you may wish to suggest your customers purchase the new 1967 CD411 Workshop Manual. You will be notified when the ammendments are available, but there is little probability of their being offered in the near future.

#### NEW SHOP TOOL -- CD475 STANCHION TUBE INSTALLER

This new shop tool, although similar to the Zl6l tool illustrated in the CDL1l Workshop Manual, is favored by most mechanics as the sliding bar (shock driver) design of the CDL75 saves time and prevents damage to the top fork lug. The CDL75 is inserted through the top lug, fork cover, and middle lug. The lower end of the tool is then threaded into the top of the stanchion tube. By then using the sliding bar, the stanchion can be quickly drawn upwards into position. An essential tool for assembling all Triumph forks from 1964 fitted with "outside" fork springs. \$8.40A

#### NEW STAHLWILLE HAND TOOLS

Dealers recently ordering hand tools will have noted we are discontinuing the Englishmade King Dick hand tool line and are now stocking the German-made Stahlwille line. Dealers familiar with Stahlwille tools will appreciate this change, as we consider the Stahlwille tool line to be first-rate and comparable to any domestic tools. Back-orders for King Dick tools have been and are being filled with the Stahlwille tools, and as our remaining King Dick stock is exhausted, new orders will be filled with Stahlwille tools. You may continue to use the King Dick part numbers, as listed on page 29 of your 1967 Tri-Cor Accessory Catalog, as the Stahlwille tool will automatically be substituted when the King Dick tool stock is exhausted.



## ccessories

August 10, 1967 Bulletin #67-17P (Supersedes Service Bulletins 62/10, 63/8, 65/2, 65/12, and Parts Bulletin 67-4P)

Lucas Stators and Rotors Fitted to Triumph Motorcycles - 1954 thru 1967.

#### "A" RANGE

RM No.	STATOR PART No.	NUMBER OF LEADS-COILS	ROTOR PART No.	No. STAMPED ON ROTOR	MODEL	YEAR
RML3 RML3	47105 47177	3 - 6 4 - 6	466124 466124	465904 465904	T15, T20 & T20C T20S, T20W, T20SL, T20T,	54-62
RML8 RML9	47161 47188*	3 <b>-</b> 6 5 <b>-</b> 6	54213903 54213901	54212284** 54215824**	T2OSR, & T2OSC E.T. Ign. T2O (w/two piece crankcase) T2OSR, T2OSC, T2OSM E.T. Ign (w/two piece crankcase)	
			<u>"B" ]</u>	RANGE		
RM14 RM15 RM13/15 RM19 RM19 RM19 RM19	466168 47127 47171 47183- 47131 47204 47188	3 - 6 3 - 6 3 - 6 3 - 6 3 - 6 5 - 6	466230 423506 423506 54213901 54213901 54213901 54213901	465969 466177 466177 54215824** 54215824** 54215824** 54215824**	5T & 6T 6T T110, T120, TR7 & TR6 T120R, TR6SR, & TR6SC 6T 6T, TR6 & T120 T120TT & TR6C	54-58 59-61 60-61 62 62 63-67 63-67
			"C"	RANGE		
RM13/15 RM13/15	47105 47149	3 <b>-</b> 6 5 <b>-</b> 6	423506 54211596	466177 54211595	3TA & 5TA 1960 T100A & TR5AR H.T. Ign up to Engine #H21122	58- <b>6</b> 1 . 61
RM13/15	47105	3 - 6	54211596	54211595	TR5AR Battery-Coil Ign	61
RM13/15	47177	4 - 6	54211596	54211595	after Engine #H21122 TR5AC E.T. Ign up to Engine #H25251	61
RM19	47188*	5 - 6	54213901	54215824**	TLOOSC E.T. Ign.	62 62 <b>-6</b> 7
RML9 RML9	47204 47188	3 - 6 5 - 6	54213901 54213901	54215824** 54215824**	3TA, 5TA & TLOOSR TLOOSC E.T. Ign	63-67
*The 4718	38 five lead	d Stator has s	uperseded t	he 47173 four	lead Stator previously fitte llow lead from the 47188 Sta	d
OO Dale .	FETT OTOTI 1110	TOTAL THE OUTED	apprication.	r our precu-le	TTON TOUGHT TONE ON THE TOO DOG	

must be grounded.

\*\*54213901 rotor may be stamped either 54212006 or 54215824.

NOTE: 47197 encapsulated version of 47188 available for special applications.

#### SUPERSESSIONS

47105---supersedes---47119, 47124, 47137, 47168, 465915, 468678, & 468973

47127---supersedes---469427

47171---supersedes---47134 & 47178

47177---supersedes---47138, 47165, 47166, & 47175

47181---supersedes---47164

47188---supersedes---47173

54213901---supersedes---54214272 & 54215824

47204 (Encapsulated Stator)---supersedes---47162



August 10, 1967

Bulletin #67-18P

(Supersedes Parts Bulletin 66-3P)

Re:	PISTONS	IN	STOCK	AT	THE	TRIUMPH	CORPORATION

PART NO.	COMP. RA		FITTED RANGE	SI	ZES AVAI	LABLE		
CP120	7-1	47mm 15	Occ T15 All	Sto	.020	.040		
CP141	7-1	63mm 20	Occ T20 All	Ste	0.00	.020	.040	
CP172	9-1	63mm 20	Occ T20 All	Sto	.020	.040		
M1640	10-1	63mm 200	Occ T20 All	Sto	1 .020	. одо	.060	.070
Bare_p	<u>iston only. Use</u>	CD200 rings,	E1750 pin,	<u>(2)</u> E1767 (	lips	.080	.090	
_		"B	RANGE					
CP1 35	8-1	63mm 50	Occ 48-59	Sto	.010	.020	.030	.040
CP161	9-1	63mm 500	Occ 48-59	Sto	.010			
CP163	8-1	71mm 650	Occ 50-on	Sto	010.	.020	.030	.040
CP200	8.5-1	71mm 650	Occ 50-on	.01	.020	.030		
CP202	11-1	71mm 650	Occ 50-on	.03				
CP206	9 <b>-</b> 1	71mm 650	Occ 50-on	.01	.0 .040			
E6867	11-1	71mm 650	Occ 50-on	Sto	.010	.020	. 040	
E6868	9-1	71mm 650	Occ 50-on	Sto		.020	.040	
CD435	10-1		Occ 50-on	Sto		.020	<u>.030</u>	. 040
Forged	slipper design	by Mahle. Wi	th rings and	d clips - no	o pin (u	se WE2	03E)	

#### "C" RANGE

Е4О41	10-1	58.25mm 350cc 57-on Std (bare piston only)	
CP164	7.5-1	58.25mm 350cc 57-on Std .010 .020 .040	
CP198	10-1	58.25mm 350cc 57-on .020 only	
CP174	7-1	69mm 500cc 59-on* Std .010 .020	
CP187	9-1	69mm 500cc 59-on* Std .030	
CP187/40/		69mm 500cc 59-on* Special piston with large	Э
valve	cutaways for use	with thin head gasket E4015/R10, .040 oversize only.	

E6884 9.75-1 69mm 1967 TlOOR only Std .010 .020 .040 E6897 9-1 69mm 500cc 59-on\* Std .010 .020 .040

\*NOTE: Pistons marked with asterisk (\*) cannot be used in 1967 T100R.

### (ALL PISTONS ARE COMPLETE WITH RINGS, PIN, AND CIRCLIPS UNLESS STATED OTHERWISE.)

#### RING SETS IN STOCK AT THE TRIUMPH CORPORATION

CD200 Fits M1640 piston; and 63mm 500's (uses two sets). Std .020 .040 .060 .070 .080

CD470 Fits all T20%s, 61-on. (Replaces CP150) Std .020 .040

#### "B" RANGE

CD460 Fits all 650cc twins, (Replaces CP99) Std .010 .020 .030 .040

#### "C" RANGE

CD465 Fits all 69mm 500cc twins. (Replaces CP175 & CP180) Std .010 .020 .030 .040

NOTE: To order over-size piston or rings, combine size required with part number. Exmaple: E6868/20 means .020 over-size.

September 6, 1967

Bulletin 67-19P

SUBJECT:

New Crankshaft Locating Tool D571/2T68 for

500cc engines after H50000

We are sending one of these new tools to every dealer. All 500cc engine flywheels from engine number H50000 have two 3/16" dia. locating holes in them. One of these holes locates the crankshaft at Top Dead Center, the other at 380 before Top Dead Center.

When using this tool as a top dead center indicator be sure you engage the pin in the second hole as the crankshaft is rotated in a forward direction. Double check that the pistons are at top dead center.

Very truly yours,

THE TRIUMPH CORPORATION

S. E. Lovell,

Parts Manager

SEL: ib

September 15, 1967

Bulletin #67-20P

(Supersedes Service Bulletins 63/7, and 65/13)

#### Re: Exchange Prices on Lucas Electrical Equipment

Enclose orders for exchange units in an envelope attached to the box containing the units returned for exchange. We cannot ship any exchange units unless we have already received one of the equivalent used units. We cannot issue a credit for any old units returned after we have shipped the Lucas unit at the regular price. Superseded units are acceptable for exchange against the unit superseding them.

	Exch.	Reg.
Part No. Description Models		Price
20035EXDC GeneratorEarly 500-650cc models		
37097EXVoltage regulatorEarly 500-650cc models	.11.85.	17.15
37225EXVoltage regulatorEarly 500-650cc models		
466168EXStator RM145T & 6T, '54-'58	.24.50.	32.90
47105EXStator RM13/15T15, T20 & T20C, 154-162		
3TA & 5TA, 158-161		ŀ
TR5AR Battery-Coil Ignition	- ( -	
after engine #H2ll22, 1961	.16.50.	••27.75
47127EXStator RM.56T, '59-'61	.19.95.	31.20
47149EXStator RM13/15T100A & TR5AR E.T. Ignition	-1	
up to engine #H21122, '60-'61	.24.20.	33.20
47161EXStator RM18T20 (w/two piece crankcase), '62-'65	.18.00.	23.65
47171EXStator RM13/15Tilo, T120, TR6, & TR7, '60-'61	.19.15.	27.05
47177EXStator RML3T2OS, T2OW, T2OSL, T2OT, T2OSR,		
and T2OSC E.T. Ign., 159-162	10.00	22 (4
TREAC E.T. Ign. up to eng.#H25251, '61		
47181EXStator RM196T, 1962		
(High output) 47183EXStator RM19Tl2OR, TR6SR, & TR6SC, 1962	זט זר	מס פר
(Low output)	• 17.17.	••21.05
47188EXStator RM19T2OSR, T2OSC, T2OSM, E.T. <b>ign</b> .		
(w/two piece crankcase), '62-'67		
TlOOSC E.T. Ignition, '62-'67		•
Tl2OTT & TR6C E.T. Ign., '63-'67	10 OK	31 20
1.7201.EY Staton PM 0		ŀ
(medium output) 3TA, 5TA, & TLOOSR, '62-'67	.29.00.	. 12.60
423506EXRotor RML3/156T, '59-'61; T110, T120, TR6 & TR7, '60-'	61:	
3TA & 5TA, 158-161	.21,15.	. 33.20
466124EXRotor RML3T15, T20, T20C, T20S, T20W, T20SL, T20T,	T2OSR.	
& T2OSC 154-162	.18.00.	27.55
466230EXRotor RML45T & 6T, 154-158		
54211596EX. Rotor RM15		
5L213901EX.Rotor RM19		
All 500-650cc models, 162-167	.26.45.	36.00
54213903EX.Rotor RM18 T20 (w/two piece crankcase) '62-'65	.16.00.	22.50
Above prices effective June 1, 1967. Class A discount applies to all pr	ices sh	own. '
All prices subject to change without notice.		



November 1, 1967

Bulletin #67-22P

SUBJECT: 1968 Models

PARTS. With the introduction of our 1968 models, several points need to be clarified. 1968 model parts catalogs have not as yet arrived from the factory, but are expected shortly, and will be sent out as soon as possible. Until the catalogs arrive, parts may be ordered by description. When ordering a 1968 model part, give the exact model designation (T120R, TR6R, TR6C, T100R, or T100C), the year (1968), and as accurate a description of the part required as possible. We recommend, where possible, that you give the part number of the 1967 part that the 1968 part replaces, example: if a headlamp complete is required for a 1968 T120R, you would write "T120R 1968" in the model and year columns of your parts order form, and "Headlamp Complete (replaces 59734)" in the description column. Be sure to also give us the quantity desired. Do not put a question mark or write anything in the part number column, leave this area blank so that we may write in the correct part number. Then, compare the carbon copy of your original order with the invoice to determine the correct part number for future reference. The invoice is printed in the exact same sequence as your original order, so if the first two items on your original order are 1968 parts, the first two part numbers on the invoice will be for the 1968 parts. Important note: Do not order parts for the new TR25W model at this time. Some specifications and part numbers for this model have yet to be finalized. Until such time as all specifications and part numbers are finalized, we cannot accept orders for TR25W parts. You will be notified by later bulletin when orders will be accepted.

TOOLS. Two new tools are required to service 1968 models. First is the D571/2T68 crankshaft locating tool for all 1968 "C" range models, and also late 1967 models from engine number H50000. See bulletin #67-19P for further information on this tool. Second is the CD523 auto-advance unit extractor for all 1968 "B" and "C" range models. This new tool is on the same order as the D484T extractor used on previous models but is required on 1968 model due to the new contact breaker.

ACCESSORIES. All accessories for 1967 "B" and "C" ranges will also fit the 1968 models. So, in states where safety bars are required, our CD217/67 can be used on 1968 "C" range models, and our GD216/63 can be used on 1968 "B" range models. In states where a seat rail is required, either our CD472 seat rail or CD464 Combination Accessory Group may be used on 1968 "B" and "C" range models. However, an additional part is required to fit a CD464 Combination Accessory Group to 1968 "B" or "C" range models. The additional required part is a 2" thick spacer used to raise the tail light assembly so that the brackets for the CD464 can be attached to the rear fender mounting bolts. The spacer is placed on the center attaching stud of the new aluminum tail light housing, between the housing and the fender. This spacer will be included with all future CD464 shipments. CD464 Combination Accessory Groups now in dealer's stocks may be fitted to 1968 "B" and "C" range models by simply substituting a number of 2" steel washers for the spacer.

LM:ib