The TRIUMPH Corporation

SERVICE BULLETIN

July 8, 1964

1964 "C" RANGE 500 cc TWIN MODELS

BULLETIN #3

SUBJECT: Replacement Parts Catalog #5 for 1964 "C" Range Twins

Listed below are important corrections that should be made in your book IMMEDIATELY!

Page No.	Ref. No.	Corrections
13	8	Change E 4403 to E4003 Small End Bush
13	13, 14, 15	Piston rings are not stocked individually and must be ordered in complete sets: For E3691, E3690, and E3692 order piston ring set CP164; For E3829, and E3831 order piston ring set CP175.
13	34	Delete E5341 Exhaust camshaft.
17	4	Delete E4689 Inlet manifold .
25	11	Change 425379 to 425359 weight.
27	31	Change T417 to T1417 Gear Indicator Plate.
31	1	Delete T1933 Clutch Complete.
31	14	Change T1362 to T1885 Driving Plate
33	13	Change 47164 to 47162 Stator, RM19.
35	24	Change E1270 to E4947 Finned Clip.
35	32	Change E3935 to E4157 Left Silencer
35	33	Change E3936 to E4158 Right Silencer
37	13	Center stand F5529 is used only for T100SR equipped with a 17" wheel. All other models use F5153 center stand.
37	19	F4388 propstand is used only for T100SR equipped with a 17" wheel. Change F3723 to F5539 prop stand.
37	34	Change F4327 to F5552 Pillion Footrest.

July 8, 1964

Page No.	Ref. No.	Corrections
39	9	Suspension unit 64053946 is for use with T100SR equipped with a 17" or 18" wheel. The T100SC uses 64054164 suspension unit.
41		Delete entire page
43		Delete entire page
45	21	Change D340 to GS20 clip
47		Delete entire page and add, NOTE! U. S. Models T100SR and T100SC use 19" front wheel with 7" brake, W1333, as shown in No. 4 Replacement Parts Catalog on Page 49.
49	1	Note: W1579 is used only for T100SR equipped with 17" rear wheel.
49	1	Change W1484 to W1485 rear wheel complete.
49	2	Note: W1483 is used only for T100SR equipped with 17" Rear wheel.
49	2	Change W1470 to W1486 Rim, Spokes and Hub Assembly.
49	3	Change W1471 to W1007 Rear Wheel Rim WM3-18.
49	4	Note: W1271 is used only for T100SR equipped with a 17" Rear wheel.
49	5	Note: W1377 is used only for T100SR equipped with a 17" Rear wheel.
49	35	D544 fitted to T100SR 17" wheel.
51		Delete entire page to avoid ordering quickly detachable Rear wheel.
		parts which are never used as original equipment
53	1	Delete H1689.
53	8	Change H1675 to H1677 Mudguard Blade.
53	9, 10, 11	Delete H1540, H1538 and F5001.
53	13	Delete H1685.
53	21	Change H1482 to H1678 Bottom Stay.

The TRIUMPH Corporation

SERVICE BULLETIN

July 8, 1964

Page No.	Ref. No.	Corrections
53	33	Mudguard blade F5963 (silver with flamboyant scarlet stripes and gold lines) fits only T100SR equipped with 17" wheels.
53	35	Delete F5995.
53	40, 41	Delete F5962, F3599 and DS55.
53	42	F5924 number plate is used on English Models only. U. S. Models are equipped with F3363 number plate.
53	43	Delete D261.
55	1-7	Delete all but F4524 motif "Tiger 100". -4-
55	9-15	Delete
57	1	F5370 Petrol Tank is painted flamboyant scarlet w/silver bottom.
59	18	Change D311 to DA311 Ring spanner 5/8" x 11/16" in whit.
59	19	Change D87 to DA87 Box spanner Spark Plug.
59	31	Delete D296 Tyre inflator.
59	32	Delete F5432 Inflator Top Bracket.
59	36	Delete F5433 Inflator Bottom Bracket.
59	39	Change F5625 to GS20 clip.
59	40	Change F5334 to F5693 Air Filter.
59	41	Change F4811 to F5694 Filter Element cross out word "(felt)".
61	1	U. S. Models are fitted with H1519 American Handlebar as original equipment. H1484 is the English Handlebar and is NOT available as original equipment, although we do stock it.
61	13-32	These items are NOT FITTED TO U. S. MODELS and should be deleted.
63	1	Delete-use D495T Throttle Cable.

July 8, 1964

Page No.	Ref. No.	Corrections
63	7	Delete-use D330T Front brake cable.
63	12	Delete 1/16" x 3/8" SPLIT PIN--use 1/16" x 1/2" SPLIT PIN.
63	17	Delete--use D466T Clutch Cable.
65		Delete entire page.
67	1	Delete 376/300 Carburetor 15/16" choke.
67	2	Delete 376/001 Mixing Chamber 15/16" choke.
67	3	Delete 376/055 Jet block 15/16" choke.
69	6	Change 534296 to 554408 Plate.
71	1	Delete SSM5002/00, SSM5002/01, and SSM5001/01.
71	4-8	Delete .
71	15	Change D490 to D356 Speedometer cable (58" long).
71	16	Delete H1698 Cable Bracket.
71	20	Change 53432 to 53394 STOP AND TAIL LAMP (Type 564.)

Add the following to your U. S. A. Supplement for #5 Replacement Parts Catalog:

Page No.	Figure	Corrections
3	12	Delete #13, F4891, Center stand.
4		At the bottom of the page RE: T100SR add "also rear shocks," after the words "rear mudguard".

Attached hereto is a Description List of the various gears and gear ratios available for Unit Construction 350 and 500 cc "C" Range Twins. Bear in mind the following:

A. "Needle bearing" refers to the layshaft bearing in the gearbox housing. To convert an earlier machine from the sintered bronze bush fit T1606 bearing and use the flange off a T1367 bush as a thrust washer.

B. "Double needle bearing"means a needle roller layshaft bearing also in the kickstart spindle. To convert use T1827 kickstart spindle and T1897 bearing.

C. When converting to different ratios check that the sliding gears clear the cutaway on the sides of the selector forks. Early selector forks may be converted by grinding.

D. First condition close ratio and wide ratio gears have been superseded by second condition. When replacements are required, the mainshaft high gear and layshaft cluster must be replaced as a pair by the second condition.

E. A gear cannot be replaced singly except by one having the correct part number and, of course, correct number of teeth. The groups listed overleaf are the only possible combinations.

July 8, 1964

"C" RANGE STANDARD RATIO GEARS

	Needle Bearing		1963 T100S/R Needle Bearing		1964 T100S/R Double Needle Bearing	
	Part No.	No. of Teeth	Part No.	No. of Teeth	Part No.	No. of Teeth
Mainshaft High	T1403	26	T1403	26	T1947	22
Mainshaft Cluster	T1406	19/28	T1406	19/28	T1948	16/24
Mainshaft Second	T1410	23	T1628	24	T1922	21
Layshaft Cluster	T1615	18/28	T1817	18/27	T1949	15/23
Layshaft Third	T1413	23	T1413	23	T1839	20
Layshaft Low	T1414	32	T1414	32	T1950	27

	GEAR RATIOS		
Fourth	1	1	1
Third	1.19	1.19	1.22
Second	1.76	1.62	1.61
First	2.43	2.43	2.48

Original Equipment on:	TR5 and T100SS from H18612 up to H32465	T100S/R from H29733 to H32465	T100S/R from H32465

July 8, 1964

"C" RANGE WIDE RATIO GEARS

	Needle Bearing 1st Condition		Needle Bearing 2nd Condition		Double Needle Bearing***	
	Part No.	No. of Teeth	Part No.	No. of Teeth	Part No.	No. of Teeth
Mainshaft High	T1618	27*	T1684	23**	T1684	23
Mainshaft Cluster	T1624	18/28	T1624	18/28	T1959	15/24
Mainshaft Second	T1410	23	T1410	23	T1837	20
Layshaft Cluster	T1616	17/28*	T1686	14/28	T1960	14/24
Layshaft Third	T1413	23	T1413	23	T1839	20
Layshaft Low	T1622	33	T1622	33	T1961	29

GEAR RATIOS

Fourth	1	1	1
Third	1.30	1.35	1.37
Second	1.94	2.0	1.97
First	2.88	3.01	3.18
Original Equipment on:	TR5AC from H18612 to H25251	T100S/C from H25252 to H32465	T100S/C from H32465

*When 1st Condition Replacements are required Mainshaft High and the Layshaft Cluster MUST be replaced as a pair by Second Condition Gears T1684 and T1686 which have superseded Gears T1618 and T1616.

**Heavy Duty Stub Tooth Gear

***All Double Needle Bearing Gears are Heavy Duty, Stub Tooth Type.

July 8, 1964

"C" RANGE CLOSE RATIO GEARS

	Needle Bearing 1st Condition		Needle Bearing 2nd Condition		Double Needle Bearing***	
	Part No.	No. of Teeth	Part No.	No. of Teeth	Part No.	No. of Teeth
Mainshaft High	T1625	24*	T1821	20**	T1821	20
Mainshaft Cluster	T1635	20/26	T1635	20/26	T1971	16/22
Mainshaft Second	T1628	24	T1628	24	T1832	20
Layshaft Cluster	T1636	20/27*	T1823	17/27	T1972	17/23
Layshaft Third	T1631	24	T1631	24	T1842	21
Layshaft Low	T1633	31	T1633	31	T1950	27****

	GEAR RATIOS		
Fourth	1	1	1
Third	1.11	1.09	1.12
Second	1.35	1.32	1.35
First	1.86	1.83	1.99

*When 1st Condition Replacements are required Mainshaft High and the Layshaft Cluster MUST be replaced as a pair by Second Condition Gears T1821 and T1823 which have superseded Gears T1625 and T1636.

**Heavy Duty Stub Tooth Gear.

***All Double Needle Bearing Gears are Heavy Duty, Stub Tooth Type.

****A special gear T1982/3 (27T), is available, without the Kickstarter Rechet Teeth, as a substitution for T1950.

The TRIUMPH Corporation

SERVICE BULLETIN

October 30, 1964 64/4

TO ALL EASTERN TRIUMPH DEALERS

SUBJECT: Wheel Building Dimensions

The following locating dimensions should be used when respoking Triumph wheels. Front wheel dimension is the distance from outside edge of brake drum to outside edge of steel rim on that side. Rear wheel dimension is the distance from outside edge of sprocket teeth to outside edge of steel rim on that side.

	FRONT	REAR
"A" RANGE	WM1 Steel Rim 5/8" WM2 " " 7/16"	WM1 Steel Rim 1-7/32" WM2 " " 1-5/32" WM3 " " 1-1/16"

	FRONT	REAR
"B" RANGE	Full Width Hub 7" brake 3/16" " " " 8" " Minus 1/64" Early Hub 7" brake 13/16" " " 8" " 7/16" (All "B" Range Front Wheels Use WM2 Steel Rim)	WM2 Steel Rim 1-27/32" WM3 " " 1-11/16"

	FRONT	REAR
"C" RANGE	Full Width Hub 7" brake 3/16" " " " 8" " Minus 1/64" (All "C" Range Front Wheels Use WM2 Steel Rim)	WM2 Steel Rim 1-13/16" WM3 " " 1-21/32"

Very truly yours,

THE TRIUMPH CORPORATION

Rod Coates

Service Manager

Rod Coates:bjh

22nd January, 1964.

TO: MR. WALFORD.
MR. MATTOCKS.
MR. ROBERTSON.
MR. R. JONES.
MR. OSBORNE.
MR. HILL.
MR. CHAPMAN (4)
ALL PROGRESS.
CENTRAL STORES
INSPECTION
MR. WARREN.
MR. NELSON.
M/C SHOP (3)
MR. GOUGH.
MR. RUSHTON.
MR. TILLEY (4)
MR. KELLY.
MR. WILCOX.
MR. BRIGGS (2)
MR. LLOYD.
MR. CALLOW.

BUILDING SEQUENCE -, NO: 23/64 MODEL: 3TA QTY: 250 HOME: 182 (119 reserves)
EXPORT: 68

116
98
119

QTY	FIELD AND CUSTOMER		MARKET	QD	WHEEL	FORKS	STANDS, MUDGUARDS, PETROL TANKS, ETC. ADDITIONAL AND ALTERNATIVE EQUIPMENT		HANDLEBARS AND LEVERS	ENGINE G/BOX UNIT
29	Home	Std	Home	-	Std	Std	Prop Stand	Pillion F/Rests	Std	Std
37	Foott E & Karcheris Young Higginsworth	Std	Exp	-	Std	Std	Prop Stand 120 M.P.H. Speedo	Pillion F/Rests	Std	Std (5)
12	United Eng.	Std	Exp	-	Std	Std	Prop Stand 120 M.P.H. Speedo	Pillion F/Rests Suppressors	Std	Std
34	Home	Std	Home	34	Std	Std	Prop Stand	Pillion F/Rests	Std	Std
3	Algosaibi	Std	Exp	-	Std	Std	Prop Stand 120 M.P.H. Speedo Frt & Rear C/Bars	Pillion F/Rests H/Bar Mirror Gazelle W/Screen	Std	Std
10	Crown Agents	Std	Exp	-	Std	Std H 34136 to H 34135	Prop Stand 120 M.P.H. Speedo Petrol Leg Shields Frt & Rear C/Bars Siren 6V Mono	Pillion F/Rests Twinseat Strap H/Bar Mirror Petroflex Pipes	Std	Std ? Cyl Studs for Siren
119	Home (Reserves)	Std	Home	69	Std	Std	Pillion F/Rests	Prop Stand	Std	Std
6	Young SHELL BLUE		Exp	-	Std	Std H34265 to	Prop Stand 120 M.P.H. Speedo	Pillion F/Rests H/O Electrics	Std	H/O Alt. 17 G/B Sprocket