



SERVICE SHEETS
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B.S.A. Service Sheet No. 7II

Revised April, 1956

SERVICE TOOLS

for all



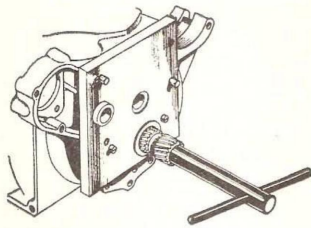
MOTOR CYCLES

1938 to 1956 Inclusive

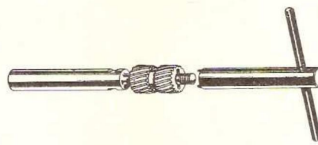


Use in conjunction with
Service Sheet No. 7IIA

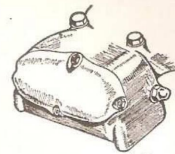
BSA SERVICE SHEET No.711



61-3281 Reaming Jig (mainshaft and timing gear bushes)
61-3275 Reaming Jig (mainshaft and timing gear bushes)
61-3162 Reaming Jig (timing gear bushes only)



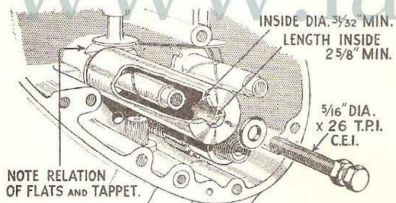
61-3284 Mainshaft Bush Reamer
61-3285 Pilot for Jigs 61-3275
61-3286 Pilot for Jigs 61-3281
61-3287 Shell Reamer Holder
61-3288 Tommy Bar for 61-3287



67-9114 Push Rod Assembly Tool

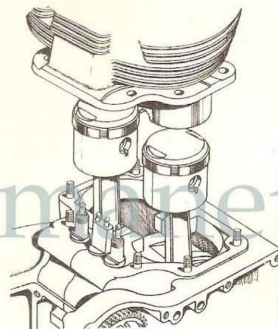


61-3167 Reamer for use with 61-3162, 61-3281 and 61-3275

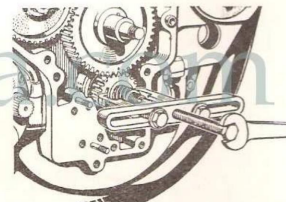


NOTE RELATION OF FLATS AND TAPPET.

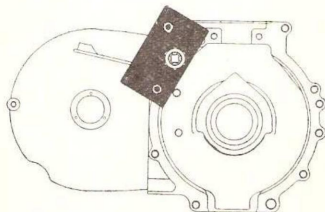
61-691 Cam Pinion Post Extractor



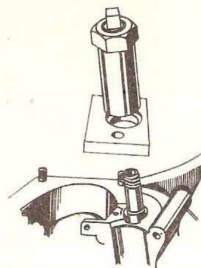
61-3061 Piston Ring Slipper,
61-3334 Piston Ring Slipper,
61-3262 Piston Ring Slipper,



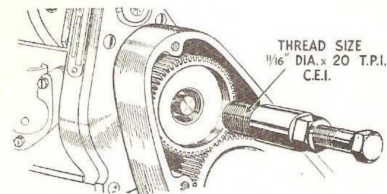
61-3256 Extractor Set (complete)
(Full details in Price List)



61-3159 Camshaft Bush Extractor



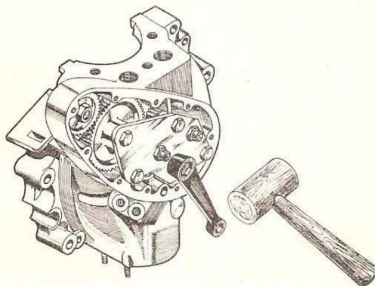
61-3069 Inlet Tappet Guide Extractor



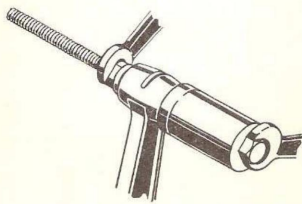
61-1903 Magdyno Driving Pinion Extractor Tool complete.

For Models fitted with Magdyno Lighting Equipment.

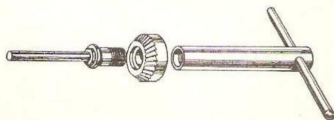
B.S.A. SERVICE SHEET No. 711—continued



15-832 Mainshaft Nut Spanner



61-658 Gudgeon Pin Bush Extractor comprising Spindle with various size bushes



61-3305 Valve Seating Tool complete

Comprising Tommy Bar 61-3291
Holder 61-3290

Cutters	
61-3298	1 1/8" x 45° x 20°
61-3299	1 1/2" x 45° x 20°
61-3300	1 3/4" x 45° x 20°
61-3301	1 7/8" x 45° x 20°
61-3302	2" x 45° x 20°

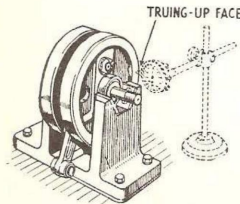
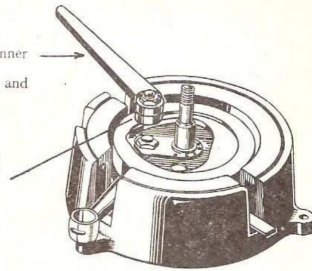
Pilots	
61-3293	1/8"
61-3294	.350"
61-3295	3/8"



65-9240 Valve Grinding Tool

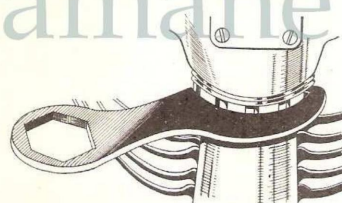
61-1817 Crankpin Nut Spanner
Tool comprises Holder, Locknut and four Spanners.

Spanners
for 61-1817
61-835
61-1754
61-1755
61-3228



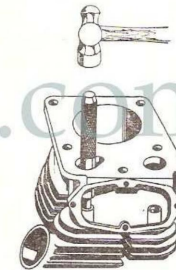
Baseplate No. 61-1821 and Vee block No. 61-692

Checking Flywheel Alignment.
Used in conjunction with Dial Indicator.

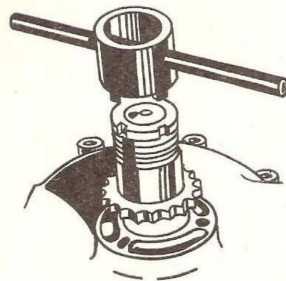


65-9243 C Spanner and Fork Top Nut Spanner

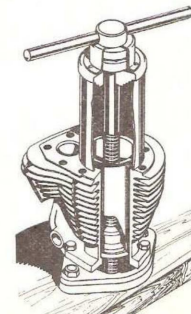
61-1751	Flywheel Bolster
61-1750	" " Gauge Rod
61-1747	" " Ring
61-1748	" " "
61-1749	" " "
61-1752	" " "
61-1753	" " "



61-2263 61-3264 61-3267 Valve Guide fitting and extracting punch

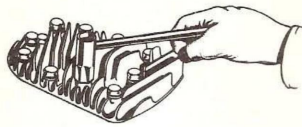


61-3220 Cush Drive Nut Tube Spanner (used with 61-699)

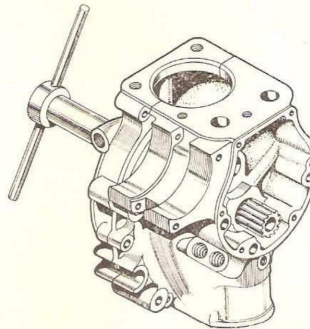


61-1937 Tool for inserting and removing Barrel Liners

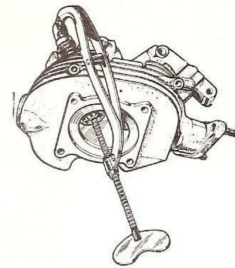
B.S.A. SERVICE SHEET No. 711—*continued.*



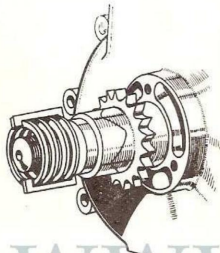
61-3049 Cylinder Nut Spanner



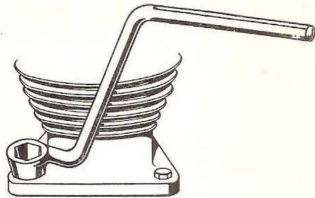
61-1932 Reamer and Holder complete
(mainshaft bush)
61-1922 Reamer for 61-1932



61-3340 Valve Spring Compressor with Adaptor
Models M33
"B" Group, "A" Group, and Sunbeam



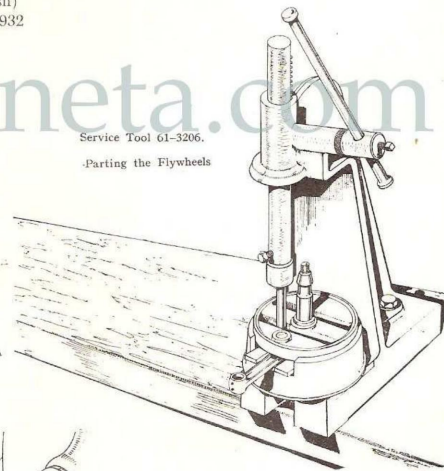
61-1822 Cush Drive Spring Assembly Tool
For holding Spring compressed whilst
fitting Lockring.



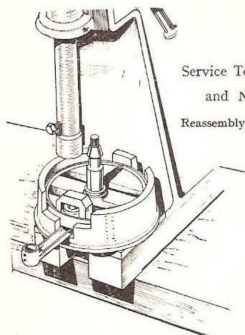
61-3052 Cylinder Base Nut Spanner



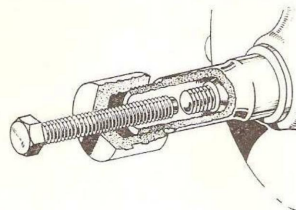
61-3340 Valve Spring Compressor
Models C10, C11, M20, M21
(Use without adaptor)



Service Tool 61-3206.
Parting the Flywheels



Service Tool No. 61-3206,
and No. 61-3210
Reassembly of the Flywheels.



61-3365 Cush Drive Extractor



61-3367 Gudgeon Pin Bush Reamer

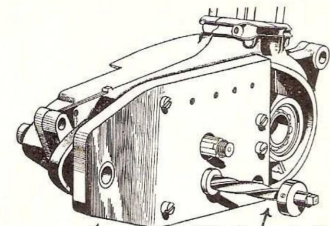


61-3366 Gudgeon Pin Bush Reamer (.750,

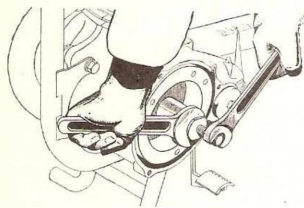


61-3246 Reamer for gudgeon pin bush

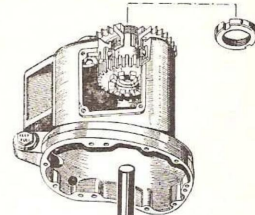
B.S.A. SERVICE SHEET No. 711—continued



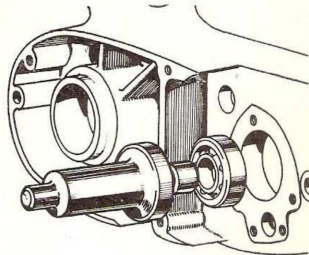
Service Tool 61-3199. 61-3308 Reamer for 61-3199
Line Reaming the Gearbox Bushes



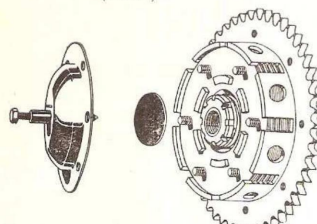
61-3188 Generator Flywheel Removal Tool
(Wico Paco)
90-297 Generator Flywheel Removal Tool
(Lucas)



61-3064 Pinion Sleeve Extractor

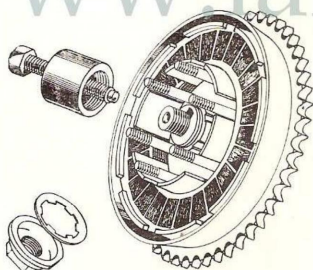


61-3214 Ballrace Pilot (gearbox pinion bearing)



61-3055 Clutch Testing Tool

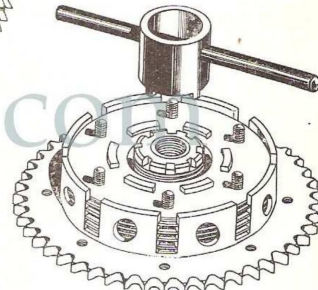
61-3215 Ballrace Pilot (gearbox mainshaft bearing)



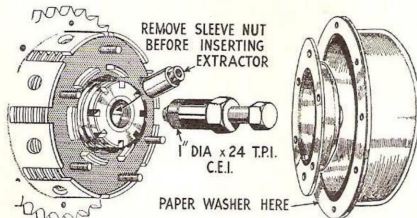
61-3362 Clutch Extractor Tool



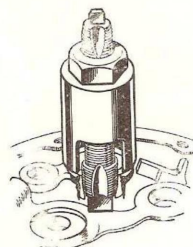
Service Tool
No. 61-3191
Removing the Clutch Plate Circlip



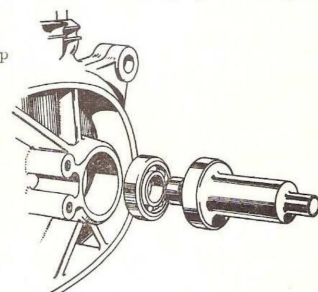
61-1915 Clutch Spring Nut Tube Spanner.



61-1912 Clutch Extractor Tool

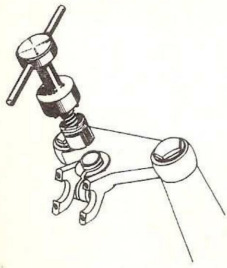


61-3185 Bush Extractor



61-3212 Ballrace Pilot for large engine bearing
61-3213 Ballrace Pilot for small engine bearing

B.S.A. SERVICE SHEET No. 711—continued



61-3002 Assembly Tool Adjuster Sleeve
61-3008 Assembly Tool Adjuster Sleeve



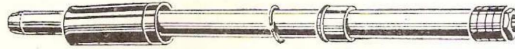
61-3006 Oil Seal Extractor



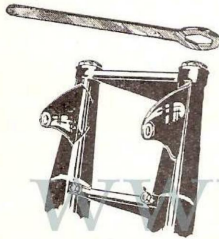
61-3007 Oil Seal Assembly Tool



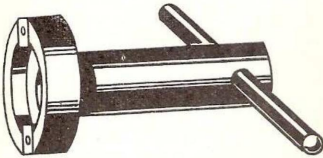
61-3003 Spanner for Fork Plug Assembly



61-3005 Assembly Tool for Oil Seal Holder

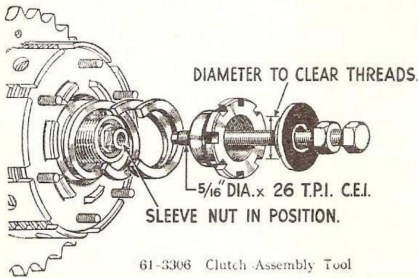


61-3001 Spanner for Top Nut Assembly



61-3257 Gearbox Sprocket Locknut Spanner;

61-3258 Gearbox Sprocket Locknut Spanner,



61-3306 Clutch Assembly Tool



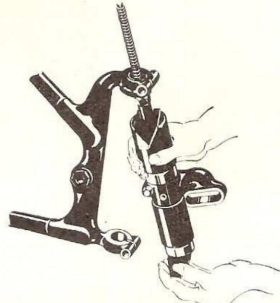
61-3350

Fork Shaft Dismantling and Assembly Tool



61-3060 Ballrace Extractor (steering head)
for all $\frac{1}{16}$ " balls

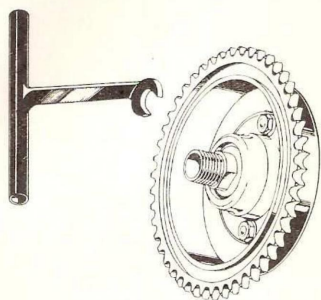
61-3063 Ballrace Extractor (steering head)
for all $\frac{1}{8}$ " balls



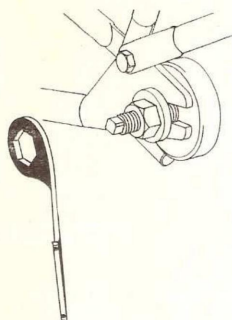
61-3222 Rear Suspension Strip and Assembly Tool



B.S.A. SERVICE SHEET No. 711—continued



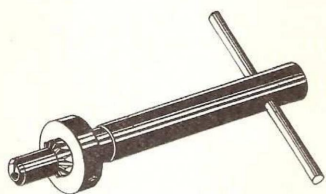
61-3217 Spanner for rear chain sprocket



S166 Rear Hub Nut Spanner



61-699 $\frac{1}{4}$ " C.E.I. Stud Boxes
61-317 $\frac{3}{16}$ " " " "
61-545 $\frac{1}{8}$ " " " "



61-3329 Chamfer Tool, Stud Hole (S/car)

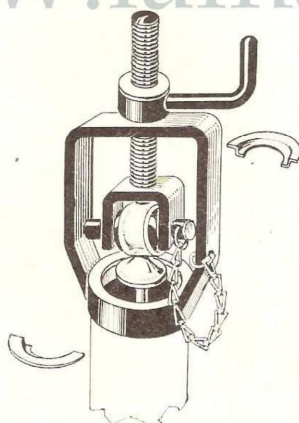


61-705 Spoke Nipple Key, (10 and 12 gauge)

61-773 Spoke Nipple Key (8 and 10 gauge)



61-3542 Wheel Bearing Nut Peg Spanner



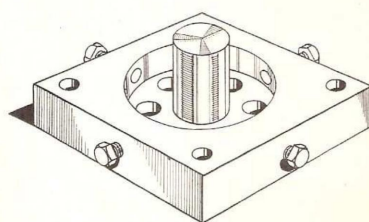
61-3503
Rear Suspension
Dismantling Tool



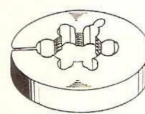
61-3513
Rear Suspension
Dismantling Tool

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B.S.A. SERVICE SHEET No. 711—continued



61-3499 Bench Die Holder



61-3483 Die



Tap



Die Nut

TAPS.

Part No.	Taps.	Description.
61-3461	$\frac{1}{8}$ " x 19 TPI B.S.P. ... (R/H)	Petrol Tap Hole.
61-3462	$\frac{1}{8}$ " x 20 TPI B.S.F. ... (L/H)	Sunbeam Dynamo.
61-3463	$\frac{7}{16}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3464	$\frac{1}{2}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3502	$\frac{9}{16}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3465	$\frac{9}{16}$ " x 20 TPI C.E.I. ... (L/H)	Front Fork Spindle Hole.
61-3466	$\frac{1}{2}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3467	$\frac{1}{2}$ " x 20 TPI C.E.I. ... (R/H)	General.
65-3468	$\frac{1}{2}$ " x 20 TPI B.S.W. ... (L/H)	Sunbeam Rear Spindle Hole.
61-3469	$\frac{1}{2}$ " x 12 TPI B.S.W. ... (R/H)	Rear Suspension Shaft.
61-3470	$\frac{7}{8}$ " x 20 TPI B.S.W. ... (R/H)	Fork Shaft Top.
61-3471	$1\frac{1}{16}$ " x 20 TPI C.E.I. ... (R/H)	Fork Shaft Bottom.
61-3472	$1\frac{1}{8}$ " x 28 TPI B.S.W. ... (R/H)	Filler Caps.
61-3473	$1\frac{1}{8}$ " x 20 TPI B.S.W. ... (R/H)	14 mm. Spark Plug Hole
61-3531	14 mm. x 1.25 mm. ... (R/H)	Bantam Fork Tube (90-5021)
61-3533	1.250 " x 20 TPI B.S.W. ... (R/H)	

DIES.

Part No.	Dies.	Description.
61-3474	$\frac{7}{16}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3475	$\frac{1}{2}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3476	$\frac{9}{16}$ " x 20 TPI C.E.I. ... (R/H)	Gearbox Mainshaft.
61-3477	$\frac{9}{16}$ " x 20 TPI C.E.I. ... (L/H)	"A" Group Mainshaft.
61-3478	$\frac{5}{8}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3479	$\frac{3}{4}$ " x 20 TPI C.E.I. ... (R/H)	General.
61-3480	$\frac{1}{2}$ " x 12 TPI B.S.F. ... (L/H)	Sunbeam Rear Spindle.
61-3481	1 " x 24 TPI C.E.I. ... (R/H)	Fork Stem.
61-3482	1.120 " x 24 TPI C.E.I. ... (R/H)	Fork Stem.
61-3483	$1\frac{1}{2}$ " x 28 TPI C.E.I. ... (R/H)	Fork Sliding Tube Top.
61-3499	Bench Die Holder (for use with 61-3483) ...	

B.S.A. MOTOR CYCLES LTD.
Service Dept., Birmingham 11
Printed in England