



SERVICE TOOLS

FOR

STANDARD VANGUARD AND TRIUMPH MAYFLOWER

INCLUDING SUPPLEMENT
COVERING
EARLIER STANDARD MODELS



V · L · CHURCHILL & COMPANY LTD

INTRODUCTION

IMPORTANT NOTICE TO DEALERS —

In presenting this brochure of specialised tools to cover the Standard Vanguard, Triumph, Mayflower and earlier Standard models, we wish to bring the following points to the attention of all Dealers.

1. **The prefix 20SM** indicates the tool is suitable for Standard Vanguard and Triumph Mayflower.
2. **The prefix 20S** indicates the tool is suitable for Standard Vanguard only.
3. **The prefix M** indicates the tool is suitable for Triumph Mayflower only.
4. **The prefix SM** indicates the tool is suitable for early Standard models, EXCEPT Vanguard, but including Triumph Mayflower.
5. **The prefix S or SS** indicates the tool is suitable for early Standard models ONLY.
6. **Where prefix FT** is shown this indicates the tool is suitable for Ferguson Tractor.
7. **THE RE - NUMBERING OF VARIOUS EXISTING TOOLS TO CONFORM WITH THE ABOVE.**

Dealers will note that many of the existing tools for the Standard Vanguard are suitable for the Triumph Mayflower, and when it is only necessary for a Dealer to purchase adapters to give a particular tool a dual service to cover both models, it has been clearly stated in the text.

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Tools suitable for both Triumph Mayflower and Standard Vanguard

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Tools suitable for Triumph Mayflower

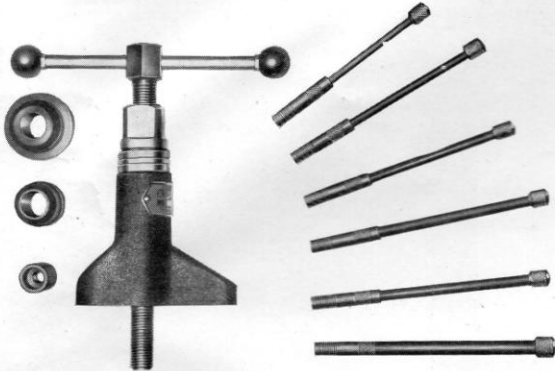
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MAYFLOWER

ENGINE

VANGUARD

VALVE GUIDE REMOVER/REPLACER 20SM-FT-60



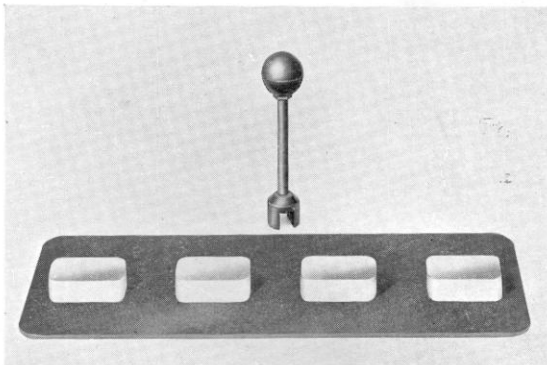
Existing tool previously numbered 20S-FT-60. Suitable for Vanguard and Mayflower. Dealers in possession of existing tool, order Code Nos. 12, 13 & 14 ADAPTORS ONLY for Mayflower.

SPARKING PLUG WRENCH 20SM-99



Existing tool previously numbered 20S-99. Suitable for Vanguard and Mayflower.

VALVE SPRING COMPRESSOR 20S-88

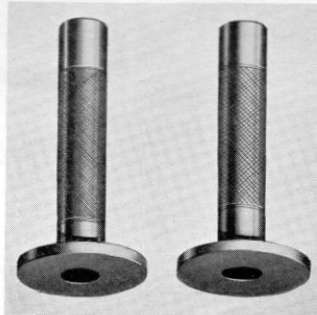


Existing tool, suitable for Vanguard only.

FAN PULLEY ADAPTOR FOR USE WITH 6312 UNIVERSAL PULLER 20S-80 (NOT ILLUSTRATED)

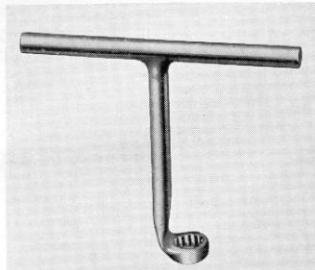
Suitable for Vanguard only.

CYLINDER LINER RETAINERS (Pair) 20S-FT-3A



Existing tool previously numbered 20S-75. Suitable for Vanguard only.

FUEL PUMP WRENCH 20S-94



Existing tool, suitable for Vanguard only.

ENGINE LIFTING BRACKET 20S-96



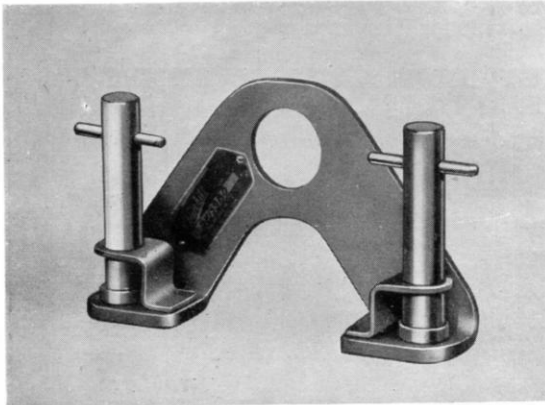
Existing tool, suitable for Vanguard only.

MAYFLOWER

ENGINE

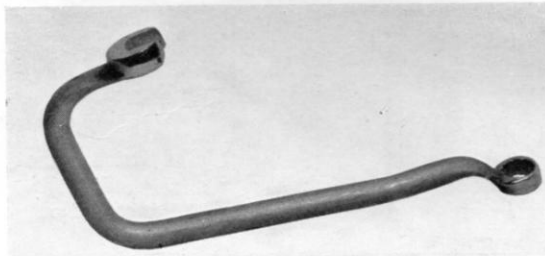
VANGUARD

ENGINE LIFTING BRACKET M-96



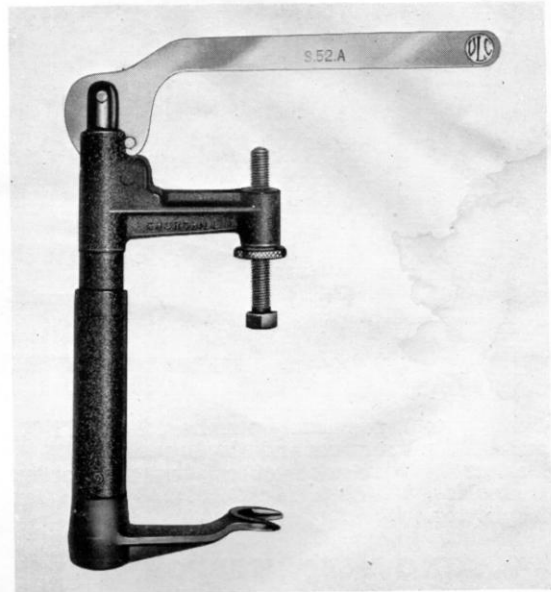
New tool suitable for Mayflower only.

MANIFOLD NUT WRENCH 20S-101



Existing tool, suitable for Vanguard only.

VALVE SPRING COMPRESSOR SM-52A



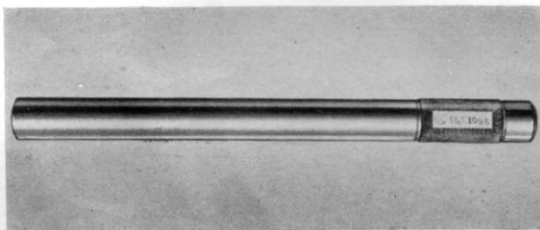
Existing tool, previously numbered S52-A. Suitable for all Standard models EXCEPT Vanguard, but including Mayflower.

MAYFLOWER

GEARBOX & CLUTCH

VANGUARD

GEARBOX MAINSHAFT REMOVER 20SM-1



New tool, suitable for Vanguard and Mayflower.

CIRCLIP INSTALLER 20SM-46

Existing tool previously numbered 20S-46. Suitable for Vanguard and Mayflower.



MAYFLOWER

GEARBOX & CLUTCH

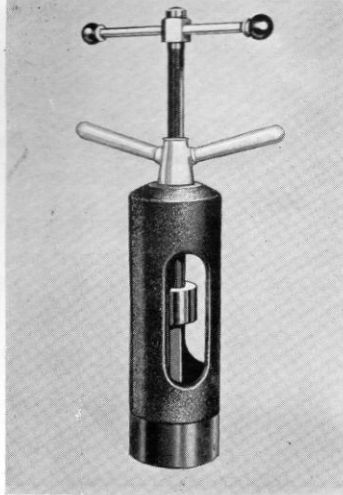
VANGUARD

GEARBOX FRONT COVER OIL SEAL INSTALLER 20SM-47



Existing tool, previously numbered 20S-47. Suitable for Vanguard and Mayflower.

CONSTANT PINION REMOVER 20SM-66



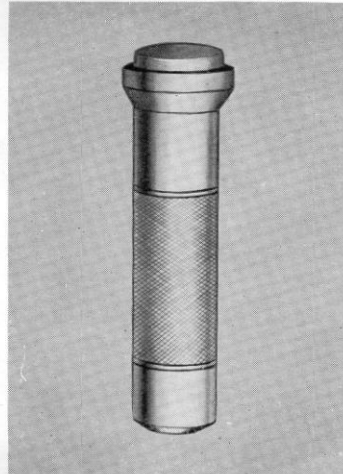
Modified tool, previously numbered 20S-66. Suitable for Mayflower and later type Vanguard.

MAINSHAFT ASSEMBLY TOOL 20SM-65



Existing tool, previously numbered 20S-65. Suitable for Vanguard and Mayflower.

COUNTERSHAFT NEEDLE BEARING RETAINING RING DRIVER 20SM-68



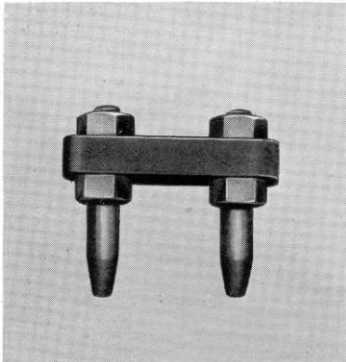
Existing tool, previously numbered 20S-68. Suitable for Vanguard and Mayflower.

MAINSHAFT CIRCLIP REMOVER 20SM-69



Modified tool, previously numbered 20S-69. Suitable for Vanguard and Mayflower.

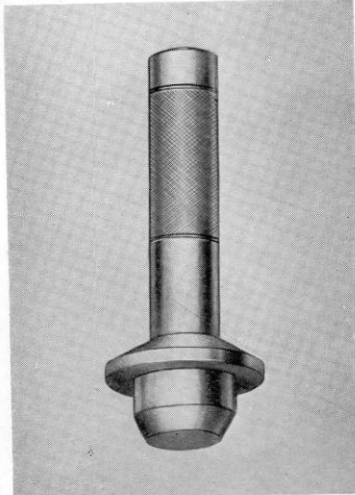
SELECTOR LOCKING BAR 20SM-67



Existing tool, previously numbered 20S-67. Suitable for Vanguard and Mayflower.

MAYFLOWER

GEARBOX FRONT COVER OIL SEAL, REAR AXLE SLEEVE OIL SEAL DRIVER 20SM-73



Existing tool, suitable for Vanguard and Mayflower.

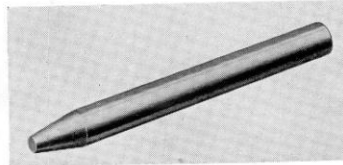
CONSTANT PINION MAINSHAFT AND HALFSHAFT BEARING REMOVER/REPLACER 20SM-4615



Page Eight

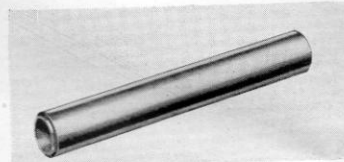
GEARBOX & CLUTCH

ASSEMBLY PILOT FOR GEARBOX COUNTER-SHAFT 20SM-76



Existing tool, previously numbered 20S-76. Suitable for Vanguard and Mayflower.

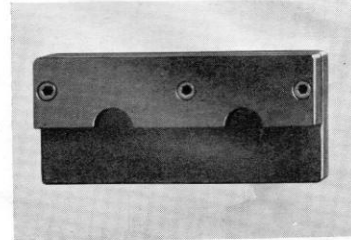
ASSEMBLY PILOT FOR GEARBOX COUNTERSHAFT 20SM-77



Existing tool, previously numbered 20S-77. Suitable for Vanguard and Mayflower.

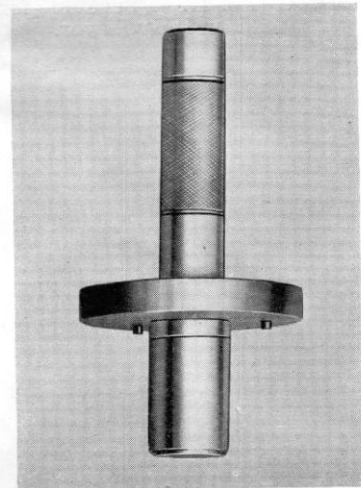
VANGUARD

GAUGE FOR COUNTERSHAFT THRUST WASHERS 20SM-82



Existing tool, previously numbered 20S-82. Suitable for Vanguard and Mayflower.

LAPPING FIXTURE FOR 1st. SPEED CONE AND CUP 20SM-83



Existing tool, previously numbered 20S-83. Suitable for Vanguard and Mayflower.

Existing tool, previously numbered 20S-4615. Suitable for Vanguard and Mayflower.

Dealers in possession of existing tool, order Code Nos. 8, 9, 10 and 11, ADAPTORS ONLY for Mayflower.

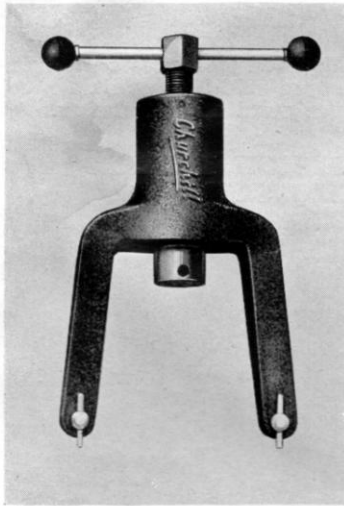
NOTE.—Code Adaptor No. 5 supplied with this tool is suitable for removing and replacing Mayflower Gearbox Mainshaft Ball Race.

MAYFLOWER

GEARBOX & CLUTCH

VANGUARD

**GEARBOX
EXTENSION
REMOVER 20S-63**



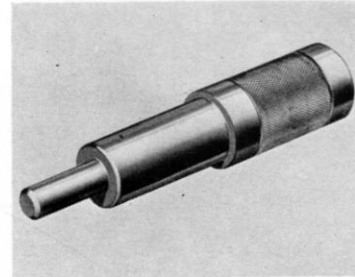
Existing tool, suitable for
Vanguard only.

**GEARBOX MAINSHAFT
& BALL RACE
REMOVER/REPLACER
20S-64A**



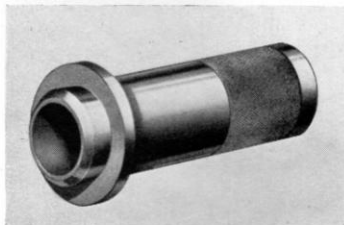
Existing tool, suitable for
Vanguard only.

**CLUTCH PLATE
CENTRALISER
20S-72**



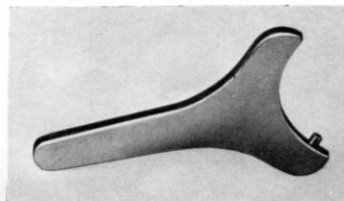
Existing tool, suitable for
Vanguard only.

**GEARBOX MAINSHAFT
REAR OIL SEAL
REPLACER 20S-87A**



Existing tool, suitable for
Vanguard only.

**SPANNER FOR
SELECTOR LEVER
BRACKET CUP 20S-95**

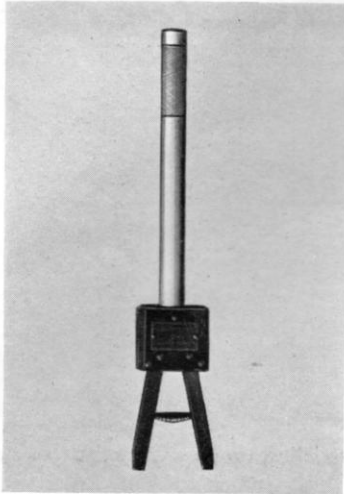


Existing tool, suitable for
Vanguard only.

**GEARBOX REAR
BEARING REPLACER
20S-78**



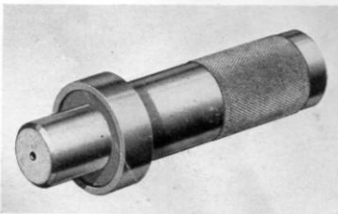
Existing tool, suitable for
Vanguard only.

MAYFLOWER**REAR AXLE****VANGUARD****PINION BEARING
OUTER CUP REMOVER
20SM-FT-71**

Existing tool, previously numbered 20S-FT-71. Suitable for Vanguard and Mayflower.

**PROPELLER SHAFT
FLANGE HOLDER
20SM-90**

New tool, supersedes 20S-90, suitable for Vanguard and Mayflower.

**DIFFERENTIAL INNER
RACE DRIVER
20S-89**

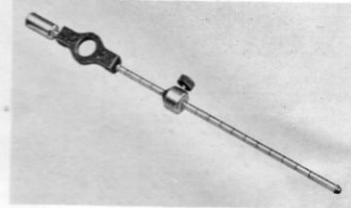
Existing tool, suitable for Vanguard only.

**DIFFERENTIAL
BEARING REMOVER
20SM-85**

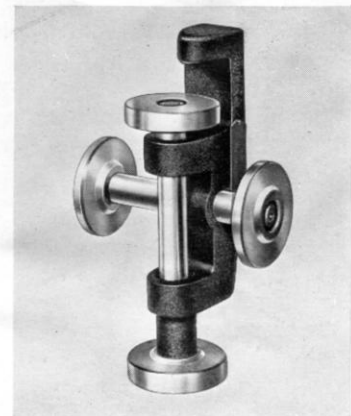
Existing tool, previously numbered 20S-85. Suitable for Vanguard and Mayflower. Dealers in possession of existing tool, order Code Nos. 15 and 16, ADAPTERS ONLY for Mayflower.

**PINION BEARING
OUTER CUP REPLACER
20S-70**

Existing tool, suitable for Vanguard only.

**PRELOAD TESTER
20SM-98**

Modified tool, previously numbered 20S-98. Suitable for Vanguard and Mayflower.

**PINION BEARING
ADJUSTING JIG
20S-84**

Existing tool, suitable for Vanguard only.

**HALF SHAFT BEARING
AND REAR HUB OIL
SEAL DRIVER
20S-92**

Existing tool, suitable for Vanguard only.

MAYFLOWER

REAR AXLE

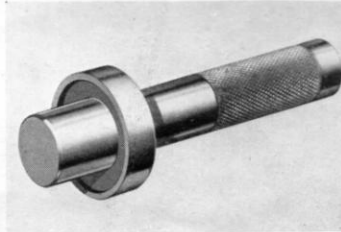
VANGUARD

**REAR HUB BEARING
OUTER CUP REMOVER/
REPLACER 20S-93**



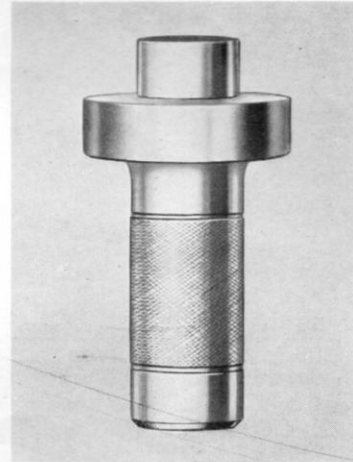
Existing tool, suitable for Vanguard only.

**PINION OIL SEAL
REPLACER 20S-100**



Existing tool, suitable for Vanguard only.

**REAR HUB OIL SEAL &
HOUSING REPLACER
M-29**



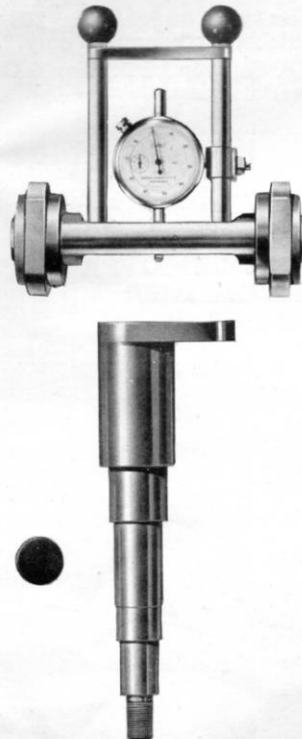
New tool, suitable for Mayflower only.

**PINION BEARING
CUPS & OIL SEAL
REPLACER
M-70**



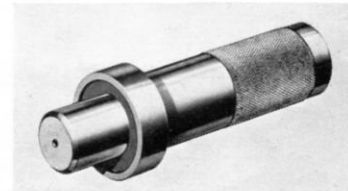
New tool, suitable for Mayflower only.

**PINION BEARING
SETTING GAUGE
M-84**



New tool, suitable for Mayflower only.

**DIFFERENTIAL
BEARING REPLACER
M-89**



New tool, suitable for Mayflower only.

**HALF SHAFT BEARING
REPLACER M-92**



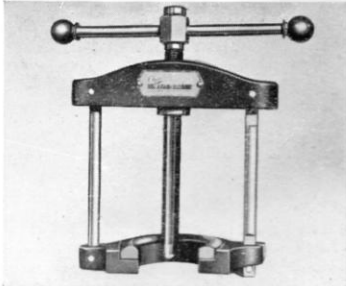
New tool, suitable for Mayflower only.

MAYFLOWER

**FRONT SUSPENSION
STEERING & SPRINGS**

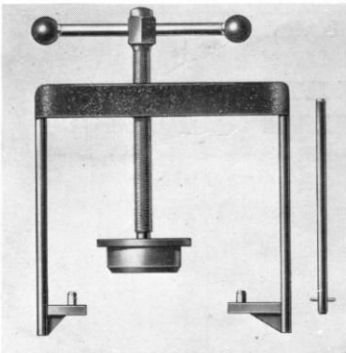
VANGUARD

**STEERING WHEEL
REMOVER 20SM-3600**



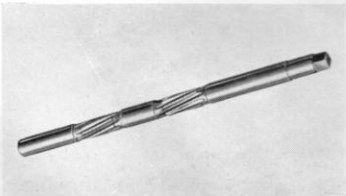
New tool, supersedes 20S-3600. Suitable for Mayflower and Vanguard.

**I.F. COIL SPRING
COMPRESSOR 20S-50A**



New tool supersedes 20S-50. Suitable for Vanguard only.

**STEERING PIN
BUSH REAMER
20S-S18A**



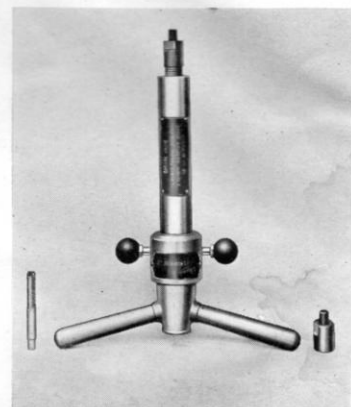
Existing tool, suitable for Vanguard and earlier Standard models only.

**DROP ARM PULLER
20S-91A**



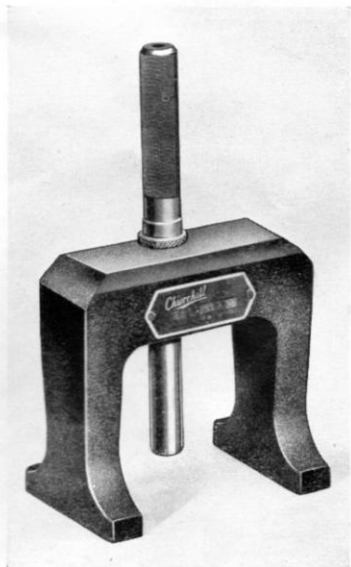
New tool, supersedes 20S-91. Suitable for Vanguard only. N.B. Suitable for Burman & Cam gear steering.

**SWIVEL PIN
REMOVER 20S-97**



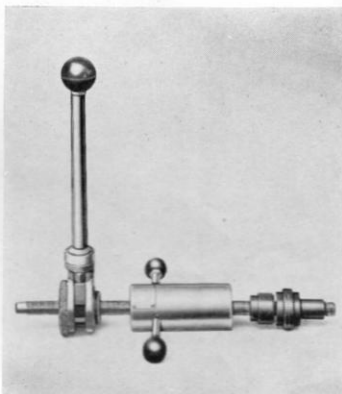
Existing tool, suitable for Vanguard only.

**STEERING PIN
BUSH DRIVER
& ANVIL
20S-S319**



Existing tool, suitable for Vanguard and earlier Standard models only.

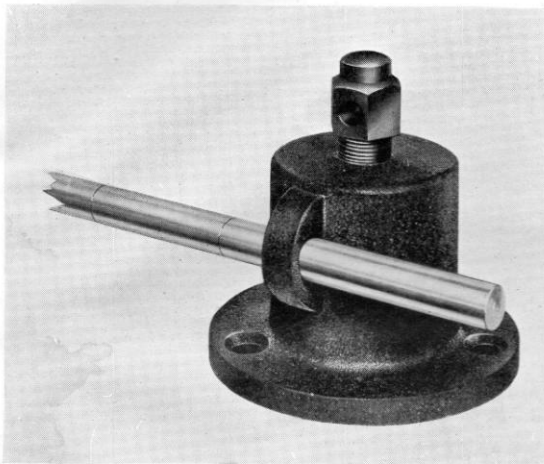
**SHACKLE PIN
BUSH REMOVER
& REPLACER
20S-3034**



Existing tool, suitable for Vanguard only.

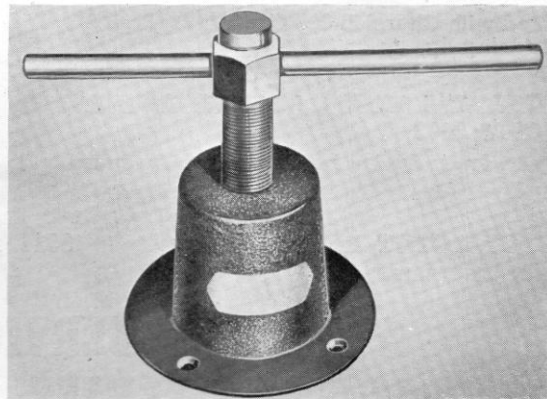
MAYFLOWER WHEELS & HUBS VANGUARD

HUB REMOVER 20S-86



Existing tool, suitable for Vanguard only.
(FRONT-REAR HUBS)

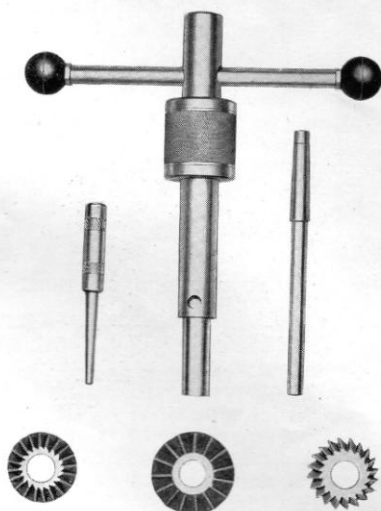
HUB REMOVER M-86



New tool, suitable for Mayflower only.
(FRONT-REAR HUBS)

SUPPLEMENT OF OLD STANDARD TOOLS & GENERAL EQUIPMENT

VALVE SEAT CUTTER HANDLE 316X
Used with Pilots and Cutters,
application as listed →



NO.	TOOL	APPLICATION
STANDARD MODELS		
316-8	Pilot	8 and 9 h.p.
316-9	"	10, 12, 16 and 20 h.p. Inlet
316-10	"	10, 12, 16 and 20 h.p. Exhaust
317-20	Cutter (1 1/4 in. dia.)	8 and 9 h.p. Exhaust
317-22	" (1 1/8 in. dia.)	8 and 9 h.p. and Vanguard, Inlet
317-25	" (1 3/8 in. dia.)	10, 12, 16 and 20 h.p. Inlet, and Vanguard Exhaust
317P-20	" (1 1/4 in. dia.)	8 and 9 h.p. Exhaust
317P-22	" (1 3/8 in. dia.)	8 and 9 h.p. and Vanguard, Inlet
317P-25	" (1 3/8 in. dia.)	10, 12, 16 and 20 h.p. Exhaust
317T-22	" (1 3/8 in. dia.)	10, 12, 16 and 20 h.p. Inlet and Vanguard Exhaust
317T-25	" (1 3/8 in. dia.)	8 and 9 h.p. Inlet and Exhaust
TRIUMPH MAYFLOWER		
316-8	Pilot	All Models
317-22	Cutters	" "

GROUP OF TAPPET WRENCH SETS

Tappet Spanners and Wedges are available with applications as listed below :—

856A/B Spanners together with SM.853B Wedge, suitable for all early Standard models, except Vanguard.

M854 A, B & C Spanners together with SM853B Wedge, suitable for Mayflower only.

(NOT ILLUSTRATED)

SUPPLEMENT OF OLD STANDARD TOOLS & GENERAL EQUIPMENT

ARBOR FOR STANDARD AND TRIUMPH MAYFLOWER

335S

Used with Churchill 335 Connecting Rod
Aligning Jig. (NOT ILLUSTRATED)

PHILLIPS HAND SCREWDRIVERS 401 & 402

Used for servicing body work of Vanguard and
Mayflower. (NOT ILLUSTRATED)

BALL JOINT REMOVER

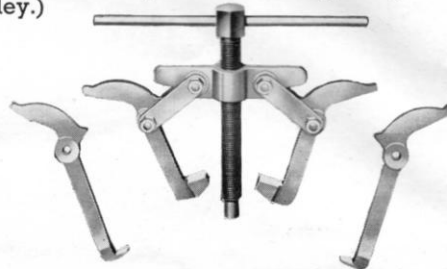
3311

(NOT ILLUSTRATED)

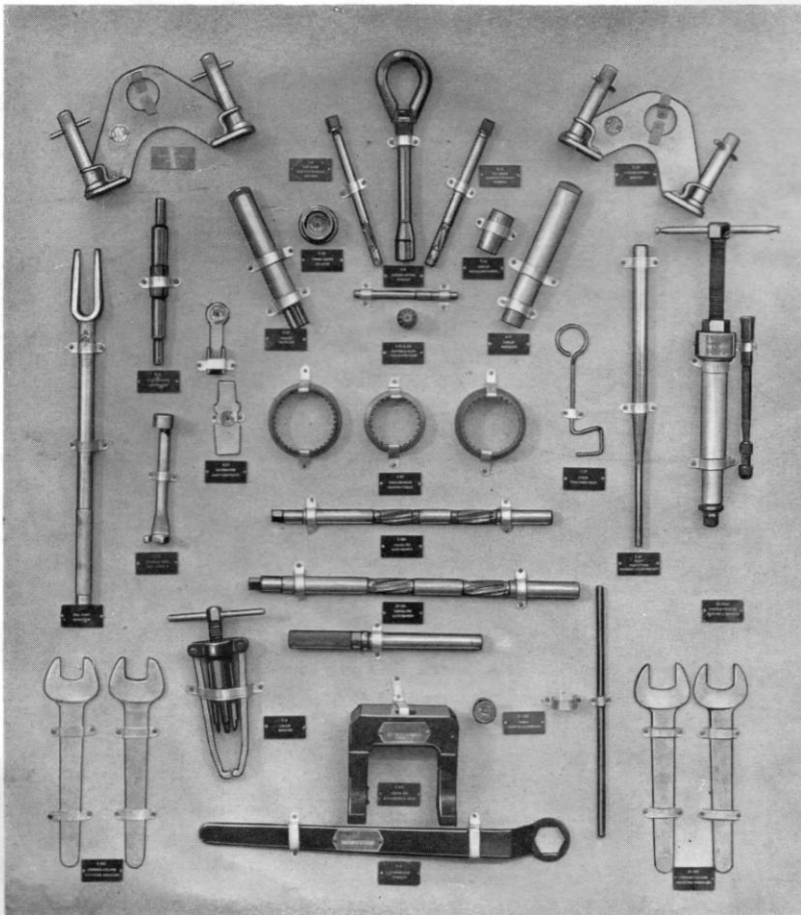
UNIVERSAL PULLER

6312

(Use 20S-80 Adapter for servicing Vanguard Fan
Pulley.)



A GROUP OF SERVICE TOOLS COVERING 1939-47 SERIES STANDARD CARS



A DESCRIPTION OF THESE
TOOLS IS GIVEN ON THE
OPPOSITE PAGE.

A GROUP OF SERVICE TOOLS COVERING 1939—47 SERIES STANDARD CARS

TOOL No.	DESCRIPTION AND APPLICATION
S. 4	Eyebolt for lifting engine (less gearbox). Suitable for 8, 9 and 10 h.p. models.
SS.4	Eyebolt for lifting engine (less gearbox). Suitable for 12 and 14 h.p. models.
S. 6	Rear Hub Remover. Suitable all Standard models and some Triumph cars.
S. 8	Reamer. Combined roughing and finishing reamer for top inner shackle pin bushes on I.F.S. models. $\frac{1}{2}$ in. dia.
SS.8	Reamer. Combined roughing and finishing reamer for top inner shackle pin bushes on I.F.S. models. $\frac{5}{8}$ in. dia.
S. 13	Clutch Plate Centraliser. Suitable for 8, 9, 10, 12 and 14 h.p. models.
S. 15	Cylinder Head Remover. Suitable for 8 h.p. model aluminium cylinder heads which are often difficult because of corrosion. With S.15A (extra screws) it becomes suitable for 9 and 10 h.p. models.
SS.15	Cylinder Head Remover. Similar to above but suitable for 12 and 14 h.p. models.
S. 16A	Gearbox Circlip Extractor. A simple tool for removal of this tricky item. Suitable all models with 4-speed gearbox.
S. 17	Gearbox Circlip Installer. Makes a simple job of replacing circlip on 4-speed gearbox.
20S.S18A	Reamer. $\frac{11}{16}$ in. dia. piloted type reamer for use when rebushing king pins or swivel pins.
SS.18A	Reamer. $\frac{13}{16}$ in. dia., as above. (These two cover all Standard models and some Triumph cars.)
S. 20	Wrench for headlamp adjustment.
S. 25	Bracket for removing and lifting engine, with (or without) gearbox. Suitable for 8, 9 and 10 h.p. models.
SS.25	Bracket as above for 12 and 14 h.p. models.
S. 28	2 Wrenches for cylinder head stud nuts in difficult spots. $\frac{3}{8}$ in. hex. $\frac{1}{2}$ in. drive at other end
S. 28A	for ratchet or tension wrench.
S. 30	Wrench for clutch operating lever pin.
S. 31	Wrench for removing and replacing starter dog. Can be used with engine in situ. Suitable all models.
S. 36	Driver for water pump bushes.
S. 37	Hook for holding the timing chain tensioned when refitting timing cover. A simple tool to overcome a fiddling operation. Suitable all models.
S. 38	Locator to ensure that timing cover and crankshaft are correctly located. Suitable all models.
S. 39A	} Synchromesh Assembly Rings. These rings make re-insertion of balls and springs child's play. With all three rings most 3- and 4-speed gear-boxes can be handled.
S. 39B	
S. 39C	
S. 41	Pilot for refitting countershaft on 4-speed gearbox. Suitable all models.
S. 42	Clamp for holding rings secure while replacing piston. 56.8mm. size.
S. 43	Punch for removing front bearing outer race.
S. 45	Feeler Gauge.
SM. 52A	Valve Spring Compressor for all models.
S. 54	Wrench of the cranked type with T handle for sump bolt nuts. Suitable all models.
S. 55	Cutter to face the carbon ring gland packing on water pump. Use with Churchill No. 316 Valve Seat Cutter Handle, and 316—12 pilot.
S. 57	Keep Plate to prevent accidental lifting of distributor drive shaft when cylinder head has been removed.
S. 58	Gearbox Circlip Installer for 3-speed gearbox of 8 h.p. models up to 1939.
S. 61	Sleeve for refitting gearbox front end cover on 4-speed gearbox. It enables oil seal to be slipped into place. Suitable all models.
20S.S319	Driver and Anvil for replacing swivel pin bushes easily, quickly and accurately.
SS.319	Recommended for use with Churchill 50 ton press. 20S.S319 deals with $\frac{11}{16}$ in. bushes and SS.319 with $\frac{13}{16}$ in. bushes, either size.
S. 345Q	Drop Arm Puller suitable for post-war models and most pre-war types.
S. 345L	Wrenches for adjusting Steering Column locking nuts. Supplied in pairs.
SS.345L	S.345L covers 8 h.p. models. SS.345 does 12, 14 and 20 h.p. models.
S. 853B	Tappet Lock for use with tappet adjusting wrenches to prevent tappets turning during adjustment. Suitable all models.
855A/B	Wrenches for adjusting tappets $\frac{1}{16}$ in. x $\frac{3}{16}$ in. Supplied in pairs.
856A/B	Wrenches as above but $\frac{1}{4}$ in. x $\frac{13}{32}$ in.
SS.5464	Shackle Pin Bush Remover and replacer. Suitable for all models.
S. 6057D	Driver for replacing valve seat inserts squarely. Suitable for all models.

OUR Engineers are constantly reviewing the design of Special Tools and making modifications to keep abreast of changes in vehicle design and we cannot therefore guarantee that tools supplied will tally in every detail with illustrations shown in this leaflet. Every assurance is given, however, that our products are in every way suitable for their particular application.

EXPORT TERMS F.O.B. BRITISH PORT

PACKING EXTRA AT COST.

Approved Service Tools for STANDARD VANGUARD and TRIUMPH MAYFLOWER



and earlier
STANDARD MODELS

PRICE LIST

All previous price lists cancelled.

OCTOBER 1951

Tool No.	Description.	Price. £ s. d.	Tool No.	Description.	Price. £ s. d.
20S.M.1	Gearbox Mainshaft Remover	12 6	S.37	Timing Chain Tensioner	1 0
20S.FT.3A	Cylinder Liner Retainer ... per pair	18 9	S.38	Timing Cover Locator	14 7
S.4	Engine Lifting Eyebolt	1 5 4	S.39A	Synchromesh Assembly Ring	1 3 0
SS.4	Engine Lifting Eyebolt	1 5 4	S.39B	Synchromesh Assembly Ring	1 6 5
S.6	Rear Hub Remover	1 14 0	S.39C	Synchromesh Assembly Ring	1 10 3
S.8	Inner Shackle Bushing Reamer ($\frac{1}{8}$ ") ...	2 9 6	S.41	Countershaft Pilot	11 0
SS.8	Inner Shackle Bushing Reamer ($\frac{3}{8}$ ") ...	2 9 6	S.42	Piston Ring Clamp (56.8 mm.)	9 8
S.13	Clutch Plate Centraliser	1 1 6	S.43	Front Bearing Race Removal Punch ...	8 10
S.15	Cylinder Head Remover	3 4 4	S.45	Feeler Gauge	13 9
S.15A	Set of Extra Screws for above	11 6	20S.M.46	Circlip Installer	1 14 1
SS.15	Cylinder Head Remover	4 0 4	20S.M.47	Gearbox Front Oil Seal Installer	1 18 0
S.16A	Gearbox Circlip Extractor	2 8 5	20S.50A	Coil Spring Compressor	To be Advised
S.17	Gearbox Circlip Installer	1 5 7	20S.M.52A	Valve Spring Compressor	2 0 2
20S.S.18A	Swivel Pin Reamer ($\frac{11}{16}$ " dia.)	3 14 3	S.54	Sump Bolt Nut Wrench	11 6
SS.18A	Swivel Pin Reamer ($\frac{11}{16}$ " dia.)	4 9 0	S.55	Water Pump Carbon Ring Cutter. Use with Churchill Valve Seat Cutter Handle 316X and Pilot 316-12	2 12 0
S.20	Headlamp Adjustment Wrench	11 3	S.57	Distributor Keep Plate	5 6
S.25	Engine Lifting Bracket	2 16 0	S.58	Gearbox Circlip Installer	1 18 6
SS.25	Engine Lifting Bracket	2 16 0	20S.M.FT.60	Valve Guide Remover/Replacer Set of 3 extra parts (Pts. 12, 13, 14) to convert 20S.FT.60 into latest type tool, i.e., for Mayflower	To be Advised £ Ditto
S.28	Cylinder Head Stud Wrench	15 8	S.61	Gearbox Front End Cover Replacing Sleeves	5 3
S.28A	Cylinder Head Stud Wrench	17 4	20S.63	Gearbox Extension Remover	3 19 9
M.29	Rear Hub Oil Seal Replacer	1 7 0	20S.64A	Gearbox Mainshaft and Ballrace Remover/ Replacer	7 2 0
S.30	Clutch Operating Lever Pin Wrench ...	4 2			
S.31	Starter Dog Wrench	15 8			
S.36	Water Pump Bush Driver	7 9			

Tool No.	Description.	Price. £ s. d.
20S.M.65	Mainshaft Assembly Tool	16 3
20S.M.66A	Constant Pinion Remover	6 5 0
20S.M.67	Selector Locking Bar	14 4
20S.M.68	Countershaft Needle Bearing Retaining Ring Driver	9 4
20S.M.69	Mainshaft Circlip Remover	2 0 0
20S.70	Pinion Bearing Outer Cup Replacer	2 7 7
M.70	Pinion Bearing Cups Replacer	2 15 0
20S.M.FT.71	Pinion Bearing Outer Cup Remover	2 2 4
20S.72	Clutch Plate Centraliser	17 7
20S.M.73	Gearbox Front Cover Oil Seal Driver	15 2
20S.M.76	Gearbox Countershaft Assembly Pilot	9 4
20S.M.77	Gearbox Countershaft Assembly Pilot	12 8
20S.78	Gearbox Rear Bearing Replacer	12 1
20S.80	Adaptor for use with Churchill No. 6312 Puller	3 4
20S.M.82	Countershaft Thrust Washer Gauge	3 0 0
20S.M.83	First Speed Cone Lapping Fixture	2 2 11
20S.84	Pinion Bearing Adjusting Jig	14 17 0
M.84	Pinion Bearing Setting Gauge	21 0 0
20S.M.85	Differential Bearing Remover Set of 2 extra parts (Pts. 15, 16) to convert 20S.85 into latest type tool, i.e., for Mayflower	5 5 0 £1 1 0
20S.86	Hub Remover	3 1 7
M.86	Hub Remover	3 2 3
20S.87A	Gearbox Mainshaft Rear Oil Seal Replacer	1 10 10
20S.88	Valve Spring Tool	1 12 6
20S.89	Differential Inner Race Driver	1 0 6
M.89	Differential Bearing Replacer	19 9
20S.M.90	Propeller Shaft Flange Holder	To be Advised
20S.91A	Drop Arm Remover	3 6 0
20S.92	Halfshaft Bearing and Rear Hub Oil Seal Driver	1 1 9
M.92	Halfshaft Bearing Replacer	15 0
20S.93	Rear Hub Bearing Outer Cup Remover/ Replacer	4 1 5
20S.94	Fuel Pump Wrench	14 0
20S.95	Selector Lever Bracket Cup Wrench	10 6
20S.96	Engine Lifting Bracket	3 9 10
M.96	Engine Lifting Bracket	To be Advised
20S.97	Swivel Pin Remover	3 19 9
20S.M.98	Pre-load Tester	3 15 0
20S.M.99	Spark Plug Wrench	12 8
20S.100	Pinion Oil Seal Replacer	19 9

Tool No.	Description.	Price. £ s. d.
20S.101	Manifold Nut Wrench	14 4
20S.S.319	Steering Swivel Pin Bush Driver and Anvil ($\frac{11}{16}$ ")	2 5 8
SS.319	Steering Swivel Pin Bush Driver and Anvil ($\frac{13}{16}$ ")	2 5 8
S.345L	Steering Column Adjusting Nut Wrench per pair	1 5 10
SS.345L	Steering Column Adjusting Nut Wrench per pair	1 6 5
S.345Q	Drop Arm Puller	2 1 3
20S.3034	Shackle Pin Bush Remover/Replacer	5 15 6
20S.M.3600	Steering Wheel Remover	4 18 0
20S.M.4615	Constant Pinion, Mainshaft and Halfshaft Remover/Replacer Set of 4 parts (Pt. Nos. 8, 9, 10, 11) to convert 20S.4615 into latest type tool, i.e., for Mayflower	9 1 6 £3 4 0
SS.5464	Shackle Pin Bush Remover/Replacer	4 9 0
S.6057D	Valve Seat Insert Replacer	1 15 6

GENERAL EQUIPMENT

	1 pair of 856A and 856B Tappet Wrenches together with SM.853B Tappet Wedge for early Standard Models	19 6
	1 set of M.854 A, B and C (3 wrenches) Special Tappet Wrenches together with SM.853B Tappet Wedge (for Triumph "Mayflower")	1 18 9
	1 pair of 2 Phillips headed screwdrivers (Nos. 401 and 402) for use on Van- guard/Mayflower Bodywork per pair	6 0
6312	Churchill Pulley Puller	2 17 3
335S	Arbor for use with Churchill No. 335 Con-rod. Suits all Standard Models and Triumph Mayflower	1 18 6
316X	Valve Seat Cutter Handle	1 18 0
316-8	Pilot for use with above handle	8 6
316-9	Pilot for use with above handle	8 6
316-10	Pilot for use with above handle	8 6
316-12	Pilot for use with above when using S.55 Cutter on Waterpump (old No. S.56)	15 9
317-20	Cutter for use with above handle	2 2 0
317-22	Cutter for use with above handle	2 2 0
317-25	Cutter for use with above handle	2 2 0
317P-20	Cutter for use with above handle	2 6 0
317P-22	Cutter for use with above handle	2 2 0
317P-25	Cutter for use with above handle	2 4 9
317T-22	Cutter for use with above handle	2 2 6
317T-25	Cutter for use with above handle (Cutters and Pilots should be ordered to suit individual require- ments. See catalogue page 13 for application to various models.)	2 5 0

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