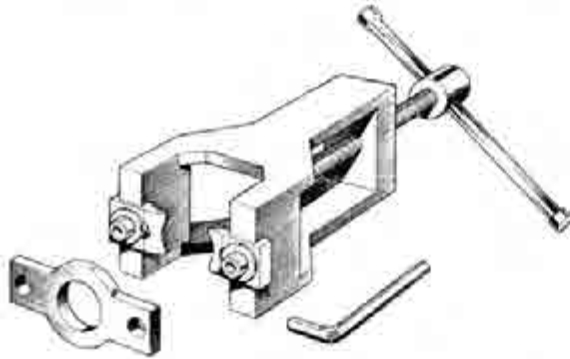


SECTION Q

SPECIAL TOOLS

Every Distributor servicing Riley cars is recommended to maintain the special tools detailed in this list, as by their use damage to parts will be obviated and repairs generally will be greatly facilitated. For additional information refer to the B.M.C. Service Tool Catalogue.

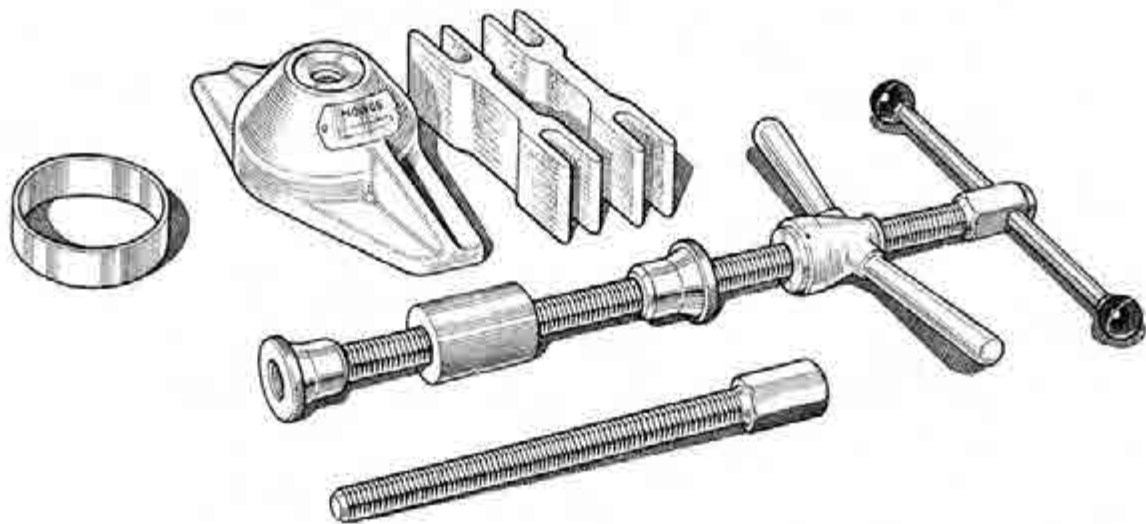
Description	Old Part No.	New Part No.
<i>Extractors</i>		
Valve spring compressor	ST118	18G274
Front and rear hub plate remover—basic tool	AJA5019	18G304
Hub remover thrust pad adaptor	AJE5004	18G304K
Bolt—adaptor $\frac{7}{16}$ " U.N.F.	AJA5021	18G304B
Bevel pinion inner race remover and replacer	301224	18G285
Bevel pinion bearing outer race remover—basic tool	301587	18G264
Bevel pinion bearing outer race remover—adaptor	—	18G264D
Bevel pinion bearing outer race remover—adaptor	—	18G264H
Partitioned fibre box	—	18G264K
Torsion bar remover	AJA5059	18G268
Differential bearing remover—basic tool	AJA5061	18G47C
Differential bearing remover—adaptor	—	18G47R
Detachable handle—basic tool	—	18G134
Rear hub bearing remover, differential bearing replacer and rear hub assembly replacer adaptor	—	18G134K
Oil seal replacer—adaptor	—	18G134N
Output shaft remover and replacer—overdrive	—	18G134R
Oil seal remover—basic tool	—	18G389
Oil seal remover—adaptor	—	18G389C
<i>Assembly Tools</i>		
Clutch assembly gauging fixture	AJA5010	18G99A
Bevel pinion and differential bearing setting gauge	AJA4004	18G191B
Bevel pinion checking fixture	68892	18G282
Bevel pinion bearing pre-load gauge	68839	18G283
Bevel pinion bearing pre-load gauge adaptor	AJHS138	18G283A
Synchromesh unit assembly ring—first and second	—	18G262
Synchromesh unit assembly ring—third and top	—	18G263
Piston ring compressor	—	18G55
Circlip pliers	—	18G214A
Circlip pliers points	—	18G214H
Control shaft oil seal replacer (overdrive)	—	18G480
Output shaft assembly guide (overdrive)	—	18G481
Solenoid shaft oil seal replacer (overdrive)	—	18G482
<i>Spanners</i>		
Lockheed bleeder screw wrench	46746	18G353
Rear hub nut spanner	AJE5011	18G303
Torque wrench	AJE5010	18G372
Bevel pinion flange wrench	AJA5062	18G34A
Steering column inner mast muff coupling spanner	ST108	18G341



18G285

Tool No. 18G285. Bevel Pinion Inner Race Remover and Replacer

This tool is for fitting and extracting the rear axle pinion inner race.



18G264

Tool No. 18G264. Bevel Pinion Bearing Outer Race Remover—Basic Tool

Comprising a body, centre screw with extension and tommy bar, wing nut, guide cone, and two distance pieces. A plain ring is also included to serve as a pilot when the rear bearing outer races are being replaced. Used with appropriate adaptors a wide range of vehicles can be serviced.



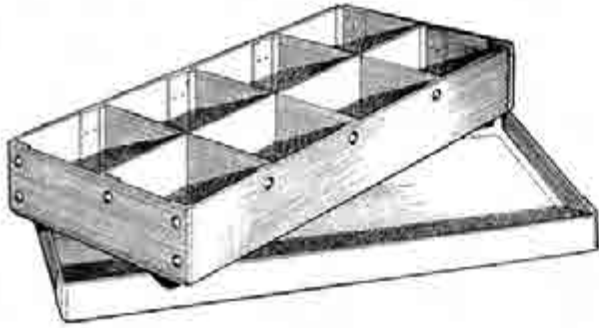
18G264D and 18G264H

Tool No. 18G264D. Bevel Pinion Bearing Outer Race Remover Adaptor

For use with basic tool 18G264.

Tool No. 18G264H. Bevel Pinion Bearing Outer Race Remover Adaptor

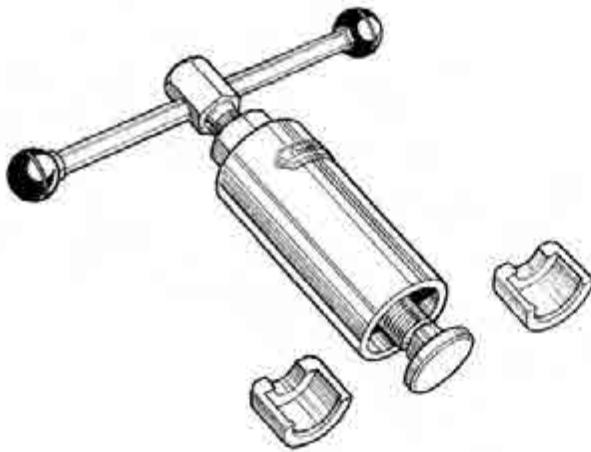
For use with basic tool 18G264.



18G264K

Tool No. 18G264K. Partitioned Fibre Box

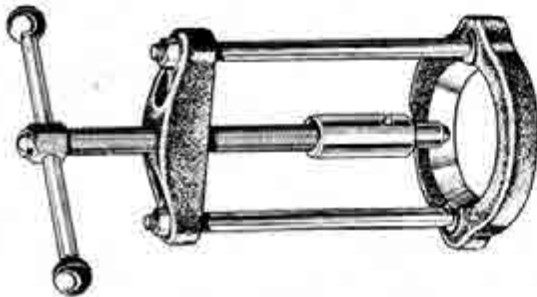
A strong fibre box for storing bevel pinion bearing outer race remover adaptors.



18G268

Tool No. 18G268. Torsion Bar Remover

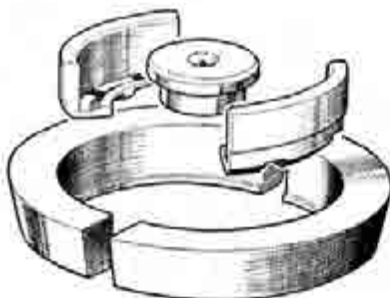
This tool is essential for removing a torsion bar without risk of damage.



18G47C

**Tool No. 18G47C. Differential Bearing Remover
—Basic Tool**

A standardised basic tool to be used with adaptor 18G47R.



18G47R

**Tool No. 18G47R. Differential Bearing Remover
—Adaptor**

For use with basic tool 18G47C

Tool No. 18G134. Detachable Handle—Basic Tool

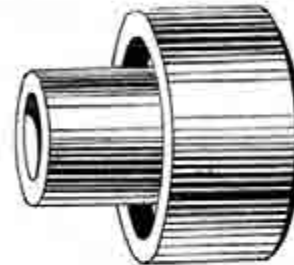
For use with adaptors 18G134K, 18G134N and 18G134R.



18G134

Tool No. 18G134K. Rear Hub Bearing Remover, Differential Bearing Replacer and Rear Hub Assembly Replacer Adaptor

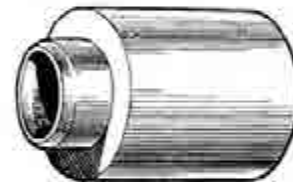
For use with handle 18G134.



18G134K

Tool No. 18G134N. Oil Seal Replacer—Adaptor

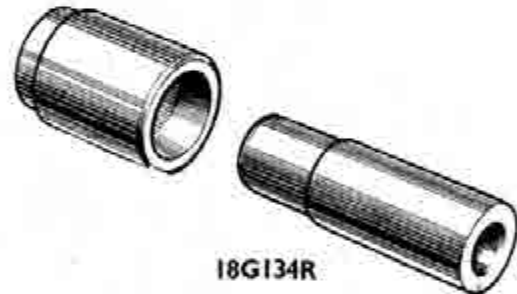
For the replacement of 'C' type of gearbox extension oil seals. Use with handle 18G134.



18G134N

Tool No. 18G134R. Output Shaft Bush Remover and Replacer

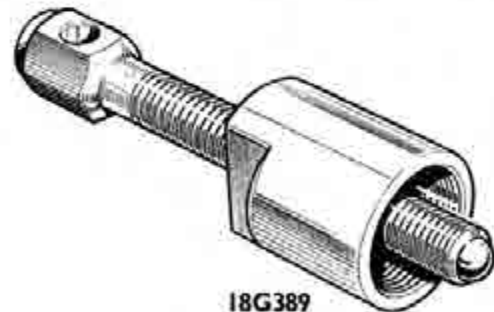
For use with handle 18G134 on the Borg-Warner Overdrive. The guide will prevent the split bush distorting during fitting, and will ensure that it is correctly positioned in the housing without damage to its prefinished surface.



18G134R

Tool No. 18G389. Oil Seal Remover—Basic Tool

This basic tool together with the appropriate adaptor is essential for removing the gearbox extension oil seal easily and without damage to the extension.



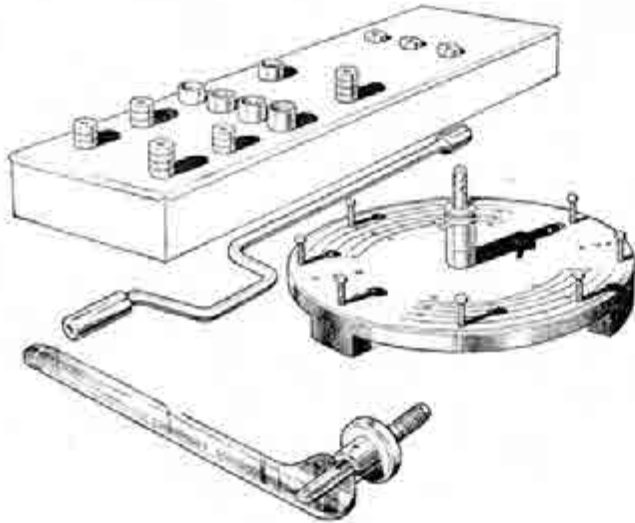
18G389

Tool No. 18G389C. Oil Seal Remover Adaptor

For use with 18G389.



18G389C

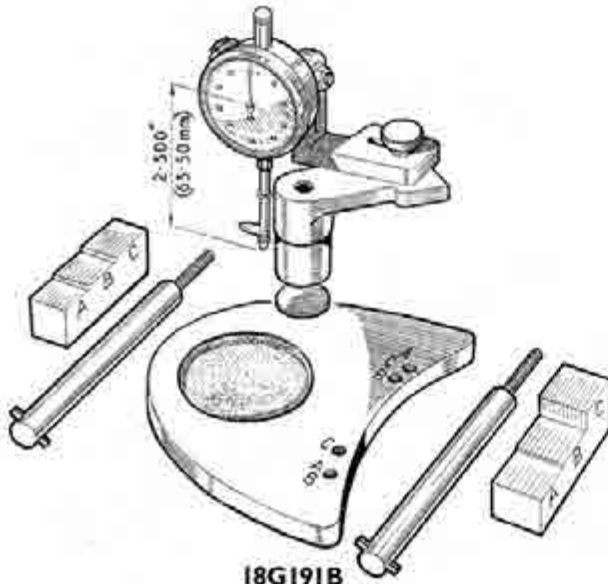


18G99A

Tool No. 18G99A. Clutch Assembly Gauging Fixture

This tool is used for setting the release lever height of any Borg and Beck clutch in the Nuffield range.

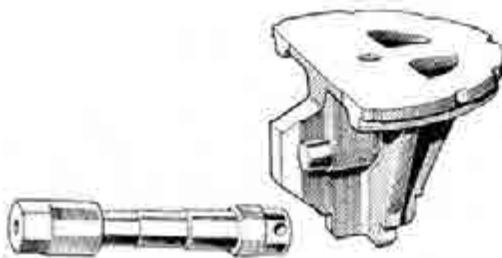
In addition it may be used in place of a press and wooden blocks to compress the springs while dismantling the clutch.



18G191B

Tool No. 18G191B. Bevel Pinion and Differential Bearing Setting Gauge

Correct assembly and adjustment of the pinion and differential gear is impossible without this special tool.



18G282

Tool No. 18G282. Rear Axle Pinion Positioning Fixture

This fixture is designed to enable the correct pinion spacing washer to be selected when fitting a rear axle pinion. Full instructions for its use are given in Section H of this Manual.



18G283

Tool No. 18G283. Axle Pre-load Check Tool

This torque spanner is ideal for measuring the rear axle pinion bearing pre-load. It has a clearly marked indicator, which can be set to read accurately between 5 and 25 in. lb. (.058 and .288 m. kg.) with the key provided.

Tool No. 18G283A. Bevel Pinion Bearing Pre-load Gauge Adaptor

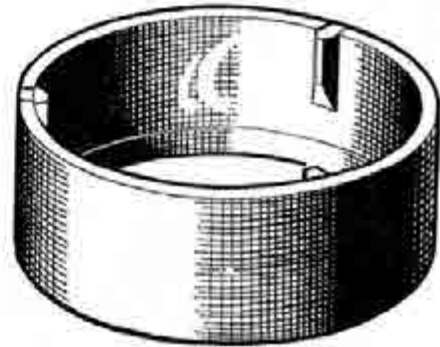
An adaptor for use with 18G283 to enable a standard socket spanner to be used.



18G283A

Tool No. 18G262. Synchromesh Unit Assembly Ring. (First and Second Speed)

Designed to facilitate the assembly of mated synchroniser and sleeve by enabling the springs and balls to be inserted easily and quickly.



18G262

18G263

Tool No. 18G263. Synchromesh Unit Assembly Ring. (Third and Fourth Speed)

Tool No. 18G55. Piston Ring Compressor

Designed to cover a wide range of engines, it is easy to operate and will compress the strongest piston ring, making assembly to the bore a quick and easy operation.



18G55

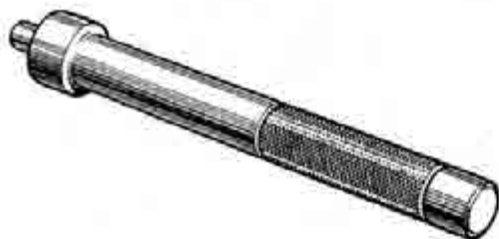
Tool No. 18G214A. Circlip Pliers

These pliers have detachable points set at right-angles to the body. Five sets of points are supplied with each pair of pliers. Use circlip pliers points 18G214H, to remove the output bearing shaft circlip on the Borg-Warner overdrive unit.



18G214A

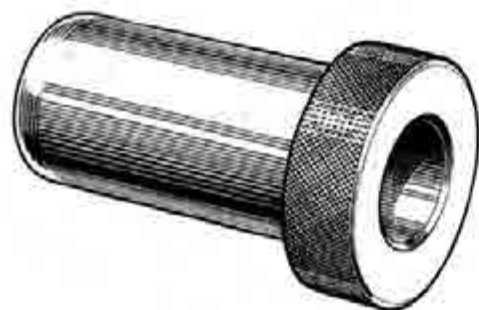
Q SPECIAL TOOLS



18G480

Tool No. 18G480. Control Shaft Oil Seal Replacer

The new oil seal is placed on the tool and driven into position with the tool piloting in the overdrive housing.



18G481

Tool No. 18G481. Output Shaft Assembly Guide

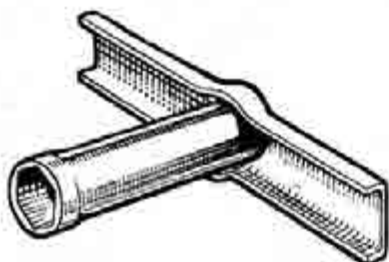
When inserted into the output shaft bush, the overdrive housing can be fitted without the splines on the shaft damaging the pre-finished surface of the white-metal bush.



18G482

Tool No. 18G482. Solenoid Shaft Oil Seal Replacer

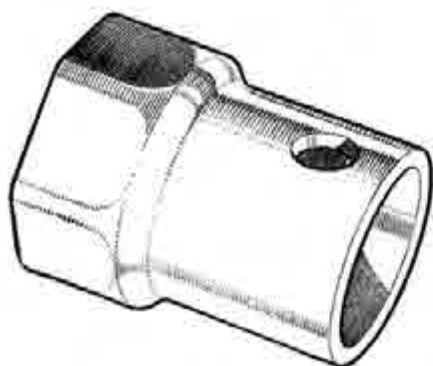
This new oil seal is placed on the tool and driven into position with the tool piloting in the overdrive housing.



18G353

Tool No. 18G353. Lockheed Bleeder Screw Wrench

This specially designed tube spanner and integral tommy bar greatly assists the brake-bleeding operation.



18G303

Tool No. 18G303. Rear Hub Nut Spanner

Designed to fit the nut on the standardised 'C' type rear axle.

Tool No. 18G372. Torque Wrench

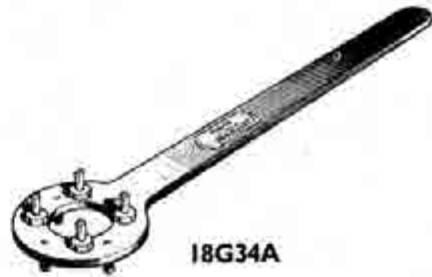
A universal torque spanner for use with standard sockets. This tool is essential if the recommended maximum torque for various studs is not to be exceeded.



18G372

Tool No. 18G34A. Bevel Pinion Flange Wrench

Designed to prevent rotation of the bevel pinion and propeller shaft flanges when the propeller shaft is disconnected.

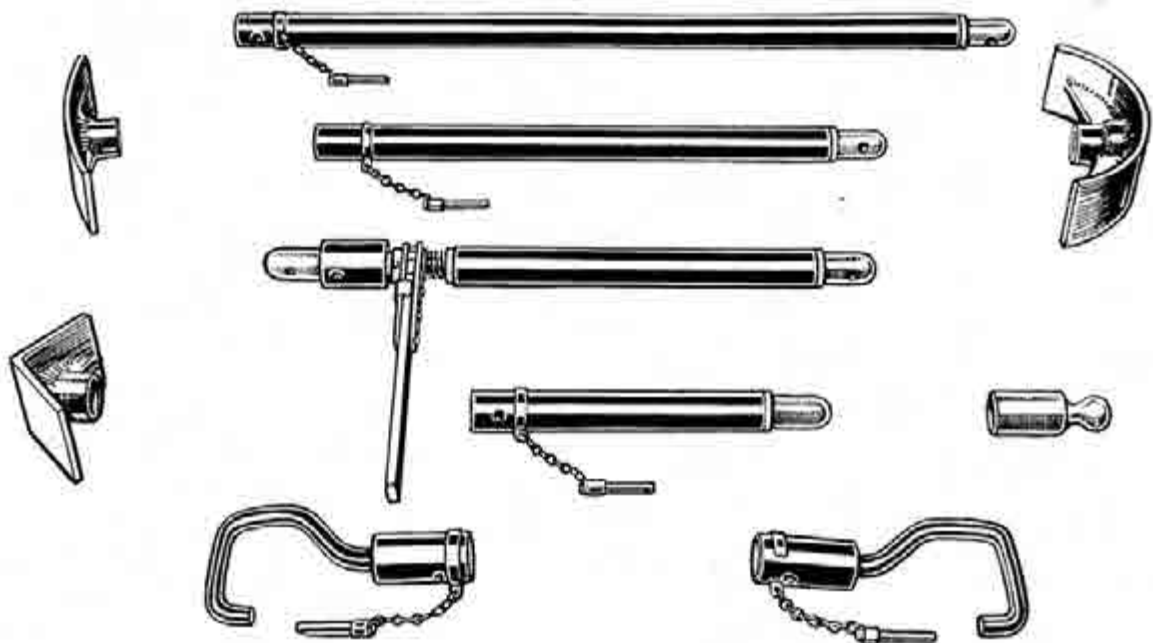


18G34A

Tool No. 18G34I. Steering Column Inner Mast Muff Coupling Spanner



18G34I

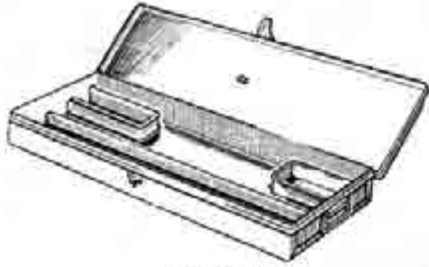


18G308

Tool No. 18G308. Body Jack

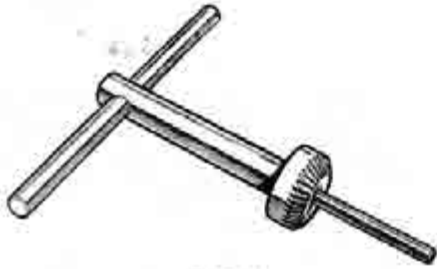
This jack has been designed to deal with repairs to bodies of all-steel construction. It is supplied complete with the various attachments and will be found capable of dealing with all normal requirements.

Q SPECIAL TOOLS



18G308A

Tool No. 18G308A. Body Jack Metal Case



18G344
18G345

Tool No. 18G344. Valve Seat Finishing Cutter—
Inlet

Tool No. 18G345. Valve Seat Finishing Cutter—
Exhaust



18G328

Tool No. 18G328. Valve Suction Grinder