

**SPECIFICATIONS AND  
SPECIAL TOOL KITS**



# SERVICE INSTRUCTION LEAFLET

ISSUED BY

ROLLS-ROYCE LIMITED

**RR/B1.**

SE/RF.6/SF.

Subject :

SCHEDULE OF WORKSHOP TOOLS  
FOR  
ROLLS-ROYCE CARS.

Date  
of  
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## IMPORTANT

THE CONTENTS  
OF THIS  
DOCUMENT ARE  
STRICTLY  
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TO BE  
TRANSMITTED  
TO ANY  
UNAUTHORIZED  
PERSON.

All tools shown in this schedule are necessary in the course of repair work on the chassis types produced in the ten year period preceding 1939. These tools are listed in sections according to the unit for which their use is required and the sections are subdivided to show the appropriate tools for each model.

Tools have been classified in groups 'A' and 'M', and are marked with their classification in the column adjoining the Tool No. The groups are as follows:-

- 'A' These tools are necessary for general repair work and maintenance .
- 'M' These tools are for use in more comprehensive repair work including full dismantling of all units.

Information concerning the availability of these tools for purchase or hire, together with cost or hiring charges, may be obtained from the London Service Station.

ENGINE							
Tool No.		Tool	Phantom		20/25	25/30	Wraith
			II	III			
R. 2883	A	Serrated Box Spanner - Crankshaft Damper retaining nut.		X	X	X	
R. 2886	A	" " "					X
R. 2892	A	" " "	X				
R. 2889	A	" " "	X				
R. 2930	A	Extractor - Crankshaft Damper	X				
R. 2931	A	" " "	X				
R. 2879	A	" " "		X	X	X	
R. 2860	A	" " "					X
R. 2985	A	+ Mandrel - Crankshaft Damper			X		
R. 2986	A	+ " " "				X	
R. 2987	A	+ " " "	X				
R. 2988	A	+ " " "	X				
R. 2989	A	+ " " "		X			
R. 2990	A	+ " " "					X
R. 3146	A	Test Bar - Crankshaft Damper					X
R. 3138	A	" " "			X	X	
R. 3157	A	" " "	X				
R. 3160	A	" " "		X			
R. 3166	A	Serrated Box Spanner - Dynamo Drive retaining nut.	X	X		X	
R. 3163	A	Serrated Box Spanner - Fan Pulley retaining nut.		X			
R. 3165	A	Serrated Box Spanner - Idler Gear Ballrace retaining nut			X	X	
R. 3168	A	Extractor - Fan Pulley		X			
R. 3269	A	" " "	X				
R. 2963	A	" Camwheel		X			

+ = Used for the preliminary assembly and testing of Crankshaft Damper.



ENGINE							
Tool No.		Tool	Phantom		20/25 H.P.	25/30 H.P.	Wraith
			II	III			
R. 3174	A	Extractor - Idler Gear			x		
R. 3175	A	" - Dynamo Drive					x
R. 2955	A	Mandrel - Clutch Centre Plate alignment				x	x
R. 2984	A	" " " "			x		
R. 3167	A	C Spanner - Water Pump Body and Air Silencer Nut	x				
R. 3170	A	" - Magneto Drive Coupling Nut			x		
R. 3570	A	Extractor - Idler Gear Ballrace			x		
GEARBOX							
R. 3176	M	Serrated Box Spanner - 1st Motion Shaft, Driving Flange Nut		x			
R. 3177	M	Serrated Box Spanner - 3rd Motion Shaft, Rear Brg. Retaining Nut	x				
R. 3178	M	Serrated Box Spanner - 2nd Motion Shaft, Front End Nut	x				
R. 3179	M	Serrated Box Spanner - 1st Motion Shaft, Front End Nut	x				
R. 3180	M	Extractor { 3rd Motion Shaft, Driving Flange 1st Motion Shaft, Coupling Flange	x	x			x
R. 3181	M	" (Diaphragm (3rd Motion Shaft, Driving Gear			x	x	x x

REAR AXLE							
Tool No.		Tool	Phantom		20/25 H.P.	25/30 H.P.	Wraith
			II	III			
R.2991	A	+ Holding Block - Pinion.			x		
R.3036	A	+ " " "		x			x
R.3053	A	+ " " "				x	
R.3120	A	+ " " "	x				
R.3116	A	+ " " "	x				
R.2979	A	+ " " - Pinion Housing.			x		
R.3039	A	Serrated Box Spanner - Pinion Thrust Race Retaining Nut.		x		x	x
R.3122	A	" " " "	x				
R.2999	A	" " " "			x		
R.2978	A	Serrated Box Spanner - Pinion Roller Race Retaining Nut.			x		
R.3029	A	Extractor - Driving Flange.		x		x	
R.2963	A	.x. " " "			x		
R.3041	A	" " "					x
R.3127	A	" " "	x				
R.3129	M	Serrated Box Spanner - Differential Thrust Brg. Retaining Nut.		x	x	x	x
R.3132	M	" " "	x			x	
R.2945	M	Serrated Box Spanner - Differential Thrust Brg. Housing Nut.			x		
R.3057	M	" " "		x		x	x
R.3135	M	" " "	x				

+ = Used for the dismantling and assembly of the pinion & thrust races.  
 .x. = Appears also in Engine Section.

# STEERING AND SUSPENSION

Tool No.		Tool	Phantom		20/25 H.P.	25/30 H.P.	Wraith
			II	III			
R.3189	M	Serrated Box Spanner - Steering Box Felt Washer Retaining Ring.			x	x	
R.3190	M	" " " "	x				
R.3191	A	Split Box Spanner - Steering Wheel Nut.	x	x	x	x	x
R.3140	A	Extractor - Drop Arm.		x	x	x	
R.3150	A	" "					x
R.3193	A	" "	x				
R.3195	M	" - Steering Box Inner Bush.	x		x		
HB.15257	M	" - Steering Wheel.		x		x	x
HB.15448	M	" " "	x		x		
R.3199	M	Clamps - Testing Steering Tube Poundage.	x	x	x	x	x
R.3200	M	Cutter - Rocking Shaft Roller Assembly.		x			x
R.3201	M	Extractor - Front Suspension Springs.		x			x
R.3204	M	" - Shackle Pin Bushes.			x	x	
R.3206	A	Serrated Box Spanner - Steering Sleeve Nut.		x			
R.3198	A	Extractor - Bottom Pivot Pin Bush.			x		