

Motorcycle Spark Plug Guide.

This list is intended for those of you who would like to know what could have been fitted as original equipment to your machine should you wish to scour swap meets and autojumbles for that special plug, or alternatively to identify that old plug that has been lying in your workshop draw.

The plug guide has been made up from information from 1930s machine handbooks and is a guide only as to what may have been fitted in the 1920s~ 1940s period. A lot of these plug grades were superseded in the 1950s and so a cross reference from the equivalent Champion plug to the newer type will be required (should there be one).

Disclaimer -We have done our best to ensure that all the information is correct, however where there are wide variations in the original recommended plugs to what they work out to in the equivalents charts it is suggested that you seek a second opinion before proceeding.

Motorcycle	Model(s)	Normal Riding - Touring	Fast Touring	Racing	Comments
ARIEL	1933~37 SV	Lodge H1			18mm
	OHV (except Red Hunter)	Lodge H14 KLG 831	Lodge R14 KLG LB1		
	Red Hunter 350/500	KLG 831	KLG LB1 Lodge R14		
	250 Hunter	Lodge R14 KLG LB1			
	600 Square Four	Lodge C14 or H14 KLG 831 or L777 Champion H10	Lodge R14 or H53 KLG LB1 Champion J10, LA10	Lodge BR49 Champion JA11	
	1000cc Square Four	Lodge C14 KLG LKS5 Champion H10	Lodge H14 or R14 KLG 831 Champion J10, LA10	Lodge H53 or BR49 KLG LB1 Champion JA11	
AJS	OHV 1931~37	Lodge H1			18mm
	SV 1931~37	Lodge TS3			18mm
	OHV 1938~39	Lodge H14			14mm
	SV 1938~39	Lodge C14			14mm
	OHV 1939~49	H14			14mm
	OHC 1933~35 350	HLN or HLNP KLG LB1 KLG 583		RL49 KLG 689 KLG 731	
	OHC 1938~39 7/R 350			KLG 731 or 689 Lodge RL49 or RL51	
BSA (1930s)	SV 18mm	Lodge C3 KLG M50			
	SV 14mm	Lodge C14 Champion L10 KLG F50			
	OHV 18mm	Lodge H1 KLG M60 or M80			
	OHV 14mm	Lodge H14 Champion L10S KLG F70		Lodge HHN or HNP	
DOUGLAS	OHV 18mm		Lodge H1 or C3	H45	
	SV	Lodge C3			
	250 14mm	Lodge CN or C14			
	150cc	Lodge CB3			
HARLEY DAVIDSON	IOE Model J (7/9) IOE Model JD (10/12)	HD #2 or #3	HD #4	HD #5	Pre 1928 use 7/8” plugs
	IOE Model J (7/9) IOE Model JD (10/12)	HD #2 or #3	HD #4	HD #5	1928~29 18mm plugs

	SV 21" and 30"	HD #2 or #3	HD #4		18mm
	OHV 21" (Peashooter)	HD #2 or #3	HD #4	HD #5	18mm
	SV 45" 1929 onwards	HD #2 or #3 Lodge C3 Champion 6COM	HD #4 Lodge H1 Champion 5COM	HD #5 Lodge H45 Champion R1 or R2	18mm
	SV 74" 1930 onwards	Lodge C3 HD #3 Champion 6 COM	Lodge H1 HD #4 Champion 5 COM	Lodge H45 HD #5 Champion R1 or R2	18mm
	SV 80" 1936 onwards			HD #5	18mm
	OHV 61" and 74" 1936			HD #5	18mm
INDIAN	Early Models using 18mm Plugs	Lodge C3 Champion 6 COM	Lodge H1 Champion 5 COM	Lodge H45 Champion R1 or R2	18mm
	Later 14mm Plugs.	Lodge C14 Indian C Champion H10	Lodge H14, R14 or H53 Indian D Champion J10, LA10	Lodge H53 or BR49 Indian 59T Champion JA11	14mm
JAP	Early 1930s SV, OHV	Lodge H1			18mm
		Lodge H14	Lodge HHN or HNP	Lodge R49	14mm
	SV Vertical Twin	Lodge CB14 Champion L10S KLG F50			14mm Long Reach
	AJW Grey Fox	Lodge CB14 Champion L10S KLG F50			14mm Long Reach
NEW IMPERIAL	1920s 18mm OHV	Lodge H1 KLG M60			
	OHV 14mm	Lodge H14 KLG F70	Lodge HNP		
	Grand Prix Models 14mm	Lodge H14 KLG F70			
	SV 1935~36 (Model 80)	Lodge C3 KLG M50			
NORTON	1930 - 16H	KLG HS3			
	- OHV	Lodge H1			
	- ES2	KLG H53			
	- CS1		KLG 246	KLG 348, 341 or 396	
	SV, OHV	Lodge H1	Lodge H45		
	OHC	KLG KS5			
	Inter	H45 H53 (14mm)		Lodge BR29 Lodge BR39	
REX-ACME	1927 SV	KLG HS3 Lodge H			
	1927 OHV	KLG HS3, F12 Lodge H		KLG CB, 244, 180, 221 Lodge BR4, BR29	
ROYAL ENFIELD	1920s OHV	Lodge H1	Lodge H45		18mm
	1930 SV 18mm	Lodge TS3 KLG 777	Lodge H1 KLG 843		
	1930 14mm	Lodge C14 KLG L777	Lodge H14 KLG 831		
	Late 1930s 14mm	Lodge H14 KLG 831	Lodge H53 KLG L583		
	1930s 2 Strokes	Lodge H1 KLG KS5	Lodge H45 KLG 583		

RUDGE (1930s)	250 Sport	KLG LK55			
	250 Tourist and Rapid	Lodge MH14			
	500 Special and Sport	Lodge MH1			
	500 Ulster	KLG 902H			
SCOTT		Champion 7	Lodge H1 KLG KS5 Champion Aero	KLG 268, 583 or KLG 356	
STURMEY ARCHER (Engines 1929)	348 OHV		KLG 341 or 348		
	496 OHV		Lodge H45		
TRIUMPH	SV, OHV 18mm	Lodge H1 KLG 777	Lodge H45		
	SV 14mm	Lodge C14 KLG L777			
	OHV 14mm	Lodge H14 or R14 KLG 831	Lodge H53		

As it is not possible to list all motorcycles and their original spark plug requirements hopefully the above list will be of some value even as a basic indication of what to work around. Below is a listing that may also be able to assist as a pointer towards the general type of plug that would have been fitted to your motorcycle.

Plugs Suitable For Most Engines (Short Reach)

Engine Type	Thread	Lodge	KLG	Champion
OHV	14 mm	H14S	F70	L-10S
OHV	18 mm	H1	M60	16
SV	14 mm	C14	F50	L-10
SV	18 mm	C3	M50	7
2 Stroke	14 mm	C14	F50	L-10
2 Stroke	18 mm	CB3	M50	16
Racing	14 mm	R51	F70	L-10S