

# CRYPTON

## TECHNICAL BULLETIN

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BULLETIN 44/67  
DOWNTON CONVERSION DATA  
for B.M.C. 1100 Models

JUNE 1967.

Test data covering the well-known Downton engine conversions for B.M.C. 1100 models is given below and overleaf.

If further information is required on this specialised type of tuning, enquiries should be referred to Downton Engineering Works Ltd., Downton, Salisbury, Wilts.

Model	Type of Tune	Compression Ratio	Static Ignition Timing BTDC	Distributor Lucas Serial No.
Austin & Morris 1100	Single carburettor conversion	9.4 :1	2° to 3°	41142 (Standard)
"	Touring	9.4 :1	2° to 3°	40819 (Special)
Austin & Morris 1100 Automatic	Touring	9.3 :1	4°	41181 (Standard)
M.G., Riley, Wolseley and Princess 1100	Touring	9.4 :1 (M.G. - 9.6 :1)	2° to 3°	40853B (Standard)
"	Motorway	10 :1	3° to 5°	40774 (Special)

continued overleaf

Downton Conversion Data for B.M.C. 1100 Models

DISTRIBUTOR ADVANCE DATA

Lucas Serial No.	Centrifugal Advance (C/Shaft degrees - Engine RPM)			Vacuum Advance Ins.Hg - C/Shaft degrees		
	No advance below	Advance of	Maximum advance	Advance starts	Advance ends	Maximum Advance
40774	600	2 - 8 at 1000	18-22 at 2400	3"	8"	14°
40819	450	10 - 14 at 1600	28-32 at 7600	N I L		
40853B	500	13 - 17 at 1700	28-32 at 5000	4"	7"	14°
41142	600	14 - 18 at 2400	30-34 at 5400	6"	13"	14°
41181	300	12 - 16 at 2000	23-27 at 4800	3"	13"	24°

ALL MODELS

Valve Clearances - Inlet & Exhaust (Hot) : .015" (0.38 mm)  
 Distributor - Contact Breaker Gap : .015" (0.38 mm)  
                   - Dwell Angle : 60°  
 Spark Plugs - Make & Type : KLG FE 65P  
                   Gap : .025" (0.65 mm)

CARBURETTOR DATA

Model	Type of Tune	S. U. Carb. Type	Needle	Spring
Austin & Morris 1100	Single carburettor conversion	H4	AM	Blue
"	Touring	Twin HS2	S	Blue
Austin & Morris 1100 Automatic	Single carburettor conversion	HS4	AM	Red
M.G., Riley, Wolseley & Princess 1100	Touring	Twin HS2	S (Slightly richer-MA)	Blue
"	Motorway	Twin HS2	No.5	Blue