Gunson's **Dwell Angle Information**

The following data gives Dwell Angle information for over 2000 vehicle models from 1965 onwards (although much of the information is valid for earlier Models). Specific dates are only given in the YEAR column where it is of some guidance.

This information is a guide but the most reliable source of Dwell Angle information is the manufacturer of the vehicle. If in doubt, please check with them.

To use this data, first ascertain the make of Distributor on your vehicle and then consult the relevant section.

(It is not uncommon for two makes of distributor to be fitted to the same model).

Always check the Exception Sub-Section in case your vehicle is included.

When manufacturers give two tolerances we have shown the closest.

Distributor/Car Make LUCAS Aston Martin	ê/Model Distributor Code	Dwell Angle	Degrees
Austin BMC Austin-Healey Bond Daimler Ford (GB) to 1968 only except RS & TC Hillman Humber Jaguar	22D 23D 24D 25D 35D 38D etc	4 cylinder engines (60-66 Revised spec fo 6 cylinder engines (38-44 Revised spec for 8 cylinder engines	33-37
Jenson-Healey Land Rover Lotus M.G. Mini Morgan Morris Rover Range Rover Reliant Sunbeam Triumph Vanden Plas Wolseley	43D onwards (Later models) 45D 48D 54D etc.	4 cylinder engines (51-57 Revised spec for CS8 & (sliding coil) 6 cylinder engines (34-40 Revised spec for CS8 &	30-36
EXCEPTIONS Aston Martin 6 1973 Triumph 2000 TR6 2.5Pl Triumph Stag (Double C/B Daimler 8 cyl. Reliant 3 Litre	22D 22D Points) 35D 20D8 31D6	Year 1973 1973 1974 onwards Up to 1969 1967	34-38 36-38 291 2-311 2 31-37 32-35

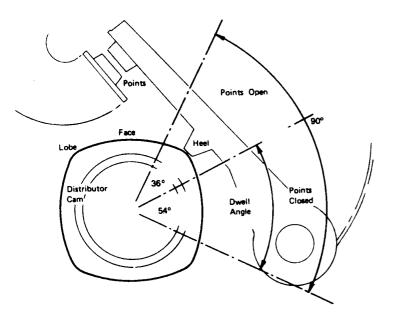
FORD

Ford G.B.		4-cylinder engines
Morgan	Up to 1967	38-40
Sunbeam V8 260	·	6-cylinder engines
		35-38
	After 1967 Refer to	8-cylinder engines
	Autolite/Motorcraft	26-28
	Distributors (on next page).	

EXCEPTIONS

METHODS OF EXPRESSING DWELL

Dwell can be expressed as an angle (°) or a percentage (%). Both methods are correct and the way they relate is shown in the following example:-



A four lobe cam has four periods of 90 degrees (total 360 degrees). The points will be open and closed for a proportion of each period. The closed period is the Dwell Anglehere 54° Dwell.

In percentage terms this equals

$$\frac{54}{-}$$
 x 100 = 60%

To convert back to degrees

$$\frac{60\%}{100}$$
 x 90 = 54°

A three lobe cam has 3 periods of 120°.

A two lobe cam has 2 periods of 180°.

A six lobe cam has 6 periods of 60°. Etc.

For example a cam with one lobe has a dwell setting (according to the manufacturer) of 50%.

This cam has a period of 360°

$$\frac{50\%}{-}$$
 x $360 = 180^{\circ}$

The Dwell angle is 180° on a 360° (1 cylinder) meter scale and will read as 45° on a 90° (4 cylinder) meter scale, or 30° on a 60° (6 cylinder) meter scale.

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Distributor/Car Make/Model	Year	Dwell Angle Degrees
AUTOLITE / MOTORCRAFT Ford G.B. Reliant Gilbern A.C.	1967 onwards Only applicable to some vehicles. Check exception column.	38-40 (4 or 6 cylinder engines)
EXCEPTIONS Ford Cortina 1300-1600 Corsair 2000 Transit 1.7 & 2.0 Fiesta, Escort, Capri, Consul Granada, Cortina 1300, 1600, 2000 & V4	1967 1967 1973/mid 75 mid 75 onwards 1974 onwards	39-42 39-42 38-42 48-52
Morgan 4.4 1600 DELCO REMY A.C. DELCO	1976 onwards	48-52
Bedford Bentley Bond Opel Saab Triumph Vauxhall	Only applicable to some vehicles. Check exception column.	4-cylinder engines 35-37 6-cylinder engines 35-37 8-cylinder engines 29-31
EXCEPTIONS		
Bedford HA Van from Eng.	1976 onwards	49-51
No. 16990329 Bond Equipe 4S 1300	1967, 69/71	40-42
Opel Ascona, Manta, Kadett, } G.T. Coupe, Record D,	1971 onwards	47-53
Commodore, Diplomat, & \	1973 onwards	36-40
Admiral 2.8 litres S & M \int Saab 99	1970 onwards	38-42
Triumph		
Spitfire III Spitfire III	1967, 1969-71 1968	40-42 39-41
GT6 Coupe	1967-68	40
GT6 Coupe	1969-71	40-42
Spitfire, GT6, Dolomite, TR7 Vauxhall	1973 onwards	38-40
Chevette Distributor No. 7992820 onwards Viva Distributor No. 204/7992820 onwards	1975 onwards }	49-51
1800 & 2.3 from Eng. No. 7992907 \ Cavalier 1.6/2.0 Astra, Carlton	1976 onwards	47-53
DUCELLIER/SEV		
Citroen B.L. Peugeot Chrysler Renault Alfa Sud Volvo Land Rover		55-59
EXCEPTIONS		
Citroen	1975 onwards Pre 1979	53-57 53-57
Volvo Chrysler 160 180	116 1373	53-57 55-57
2 Litre		46-52
Daf & Fiat 4 cyl	4075	53-57
Hillman Hunters	1975 onwards	55-57 58-64
Lotus Europa Peugeot 604		58-64 37-39
Renault 30		37-3 9 37-39
Simca, Talbot, Matra Simca		55-57

Distributor/Car Make/Model	Year	Dwell Angle Degrees
Auto Union Audi, Ford (Germany), Fiesta Mercedes, Opel, Saab, Citroen 2.0 2.3 2.4, Vauxhall, Cavalier Astra Volkswagen BMW (6-cyl), Porsche (6-cyl.)		4-cylinder engines 48-52 6-cylinder engines 36-40 8-cylinder engines 27-33
EXCEPTIONS Audi/Porsche BMW (4), DAF Volvo (4-cyl) Volvo (6-cyl) Volkswagen Mercedes (Twin Points) 6-cyl Mercedes (Twin Points) 8-cyl Mercedes 6-cyl. Volvo (6-cyl) to '73 Alfa Sud	1975 onwards/73 onwards 1973 onwards 1970 onwards	44-50 58-62 59-65 39-45 44-50 47-51 34-38 37-43 60-64
HITACHI Datsun Subaru Colt		4-cylinder engines 50-54 6-cylinder engines 35-40
LADA		52-58 (.4mm (.016'') Gap models only)
MITSUBISHI Mazda Wankel Engine 4-cyl. (Piston)		56-60 49-55
MARELLI Fiat 850-1600, 124 & Special, 900 125 (& 125 Polski-Fiat) 124 (1600 & 1800) Sport, T and Spider, 128, 127		57-63
132, 131, 125 Special Strada Panda 45 X1/9 Lancia Fiat 600D Fiat 1800-2300		52-58 47-53
130 Fiat 2 cylinder engines Seat 133		37-43 38-40 54-62
SKODA		48-52
DENZO Toyota Suzuki Daihatsu		4-cylinder engines 50-54 6-cylinder engines 39-43
DENZO/HONDA Honda S800		48
Civic, Accord		49-55