

Landis CNC Camshaft Profiling

Piper cams have been designing and manufacturing performance camshafts since the late 1960's. Continuous investment in state of the art machinery has kept us at the forefront of profile design. For some years now we have utilised CNC cam grinding equipment to complement our CNC workshop facilities, all of which allow us to hold the very closest tolerances.

Due to continuous expansion, during early 2007 we relocated to our new 25'000 sq/ft factory in Folkestone. Further investment in an air conditioned inspection department means we now offer the very best camshaft/valve train analysis/design facility in the UK.

Our CNC Landis machine will grind not only cams for use in Le Mans, WRC, Touring Cars, NASCAR, Indy Car, British & European Rallycross & Hot Rod but also most of our fast road profiles as well. The same in house design facilities and CNC machines are used to produce our huge range of performance road cams to the same exacting standards and with the same amount of success. This means the superior quality of our cams will be available to everybody whether you drive a NASCAR or a Nova!

Motor vehicle manufacturers are continually producing new engines, making them lighter and more efficient. Our continuous research and development programme keeps us at the forefront of engine development. We achieve phenomenal results by using modern design methods, developed in a competition environment, to produce cams that not only offer the best performance but the best longevity as well.

To complement our camshafts we offer a complete range of kits, adjustable vernier pulleys, performance valve springs, spring retainers, timing belts and cam followers.

Ian Cox: Managing Director

John Crabb: Technical Director

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Technical terminology

Lift:

This can be cam lift *or* valve lift. The latter being the cam lift multiplied by the rocker ratio.All lift figures in this catalogue refer to valve lift.

Duration:

This is the length of time, measured in crankshaft degrees that the valve is off its seat.

In these data sheets, Piper give you this figure as well as the timing figures. To calculate the duration, add the timing numbers together and add 180.

EXAMPLE: a cam with timing figures of 23/67 added, totals 90, plus 180, gives 270 deg duration.

Overlap:

The number of crankshaft degrees were both the inlet and exhaust valve are open at the same time.

To calculate overlap: Add the opening number of the inlet cam to the closing number of the exhaust cam, ie the first and last numbers of the cam timing. Using our same example of the 23/67 inlet and 67/23 exhaust (usually referred to as 23/67 - 67/23), add together the first and last numbers (23 and 23) and the total (46) is the overlap. In general terms the larger this number or the greater the overlap, the hotter the cam.

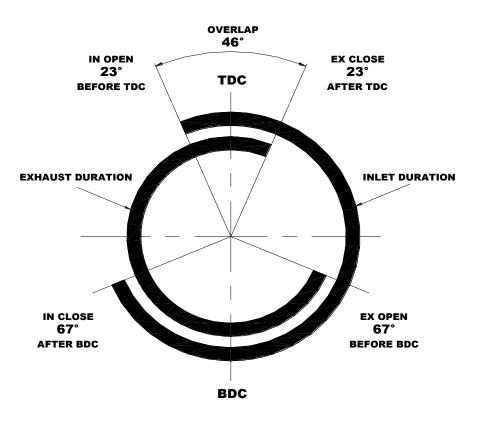
Cam Timing:

The position of the camshaft relative to the crankshaft. This is expressed as the number of degrees that full lift occurs after top dead centre (tdc) in the case of the inlet, and before tdc for the exhaust. This figure is included in the Piper technical data, but to calculate this, take the duration figure and divide by 2.

EXAMPLE: With inlet cam of 23/76, the duration is the addition of these two numbers, plus 180, equals 270. Then divide by 2 resulting in 135. Deduct the number of degrees before TDC that the valve started to open, ie 23 degrees – the result 112. The valve is correctly timed with full lift 112 degrees after TDC.

Valve Timing:

The opening and closing position of inlet and exhaust valves relative to the crankshaft as figures before and after TDC and BDC.



PIPER CAMS

Lobe Angle:

The angle between the inlet and exhaust lobe, measure in degrees.

Ramp:

The ramp is the part of the profile that takes up the valve clearance and slack in the valve train gradually, before the valve is actually lifted from the seat. It also rests the valve gently back to the seat after the closing flank. Mechanical profiles use a much larger ramp than hydraulic ones, as the hydraulic cam follower should be in contact with the lobe at all times. The height of the ramp dictates what measurement the valve clearances should be set to.

Flank:

This is the part of the profile between the ramp and nose. It is the most important part of the whole design. The flank controls the velocity and acceleration of the valve train. The acceleration / deceleration rate must be within the working limits of the valve spring, too much and valve float with occur. Generally high acceleration & velocity figures are beneficial to engine performance.

Nose radius:

The larger the nose radius the better. Our profiles are designed to utilise the biggest nose radius possible to keep the stresses to a minimum.

Dwell:

As the valve reaches full lift it will stop moving for a few degrees before starting to drop back towards the seat, this period is known as the dwell. When checking the cam timing using the full lift figure method the mid-point of the dwell should be taken as exact full lift.

Rocker Ratio:

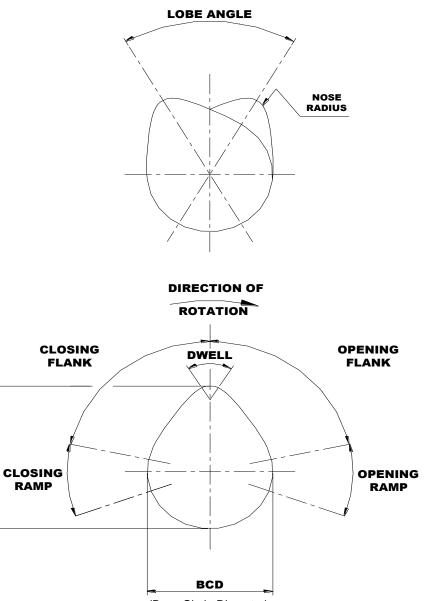
The ratio between valve motion vs cam follower motion. Push rod engines typically use a ratio of between 1.1:1 & 2.0;1. Over head cam, direct operating engines obviously have no rocker ratio as the cam follower motion is exactly the same as the valve motion.

Overall height:

The measurement from the nose of the lobe to the bottom of the base circle, in a straight line through the centre of the lobe.

Base circle diameter:

The measurement across the lobe, calculated by measuring the overall height and subtracting the cam lift.



(Base Circle Diameter)

OVERALL HEIGHT

CONDITIONS OF TRADING

Goods supplied will be in accordance with our specification unless a written variation is agreed. Minor variations which do not adversely affect the goods may be made.

Quoted dates for delivery are approximate only. Orders cannot be cancelled for late delivery.

Ownership of goods will not pass until after payment in full. If payment is late, goods must be available for collection on demand. No liability is accepted for loss or damage of goods after delivery.

Unless credit terms are agreed before placement of order, payment for goods is due on acceptance of order. Five days is required for clearance of cheques. Interest is payable on overdue payments at 5% p.a. above Barclays Bank plc base lending rate from time to time.

Goods are warranted free from defect in normal use for six months after delivery unless otherwise stated. Defective goods must be returned within one month after defect appears. Replacement of defective goods or refund of purchase price will be satisfy our liability. Our liability for goods originally supplied to us is limited to the suppliers liability to us. Liability for consequential loss of any kind is excluded except that liability for death or injury is not limited and consumers statutory rights are not affected by these terms.

No goods will be supplied to customers who are or appear likely to become insolvent. Presentation of a petition under the insolvency act 1986 or appointment of a receiver in respect of a customer will entitle us to cancel any contract with that customer.

No third party is intended to benefit from any express or implied warranty given in respect of goods supplied by us.

All contracts with our customers are to be construed in accordance with the laws of England.

Recallshow Limited T/A Piper

The Rules of Successful Camshaft Installation

Research indicates that most cams that wear out start to fail during the first few moments of operation. Many cams are irreparably damaged, even before the engine is started, because the basic rules of camshaft break-in have not been followed.

The cause of premature cam and tappet failure is metal to metal contact between the tappet and cam lobe. Should this contact occur due to lack of proper lubrication or excessively high pressure due to valve train interference shearing the oil film, then 'galling' will take place. When this happens, metal is transferred from the tappet to the cam or vice versa in a process comparable to welding. Microscopic high spots, which are present on all machined parts, become overheated due to friction and pressure and bond together, tearing sections loose from the tappet or lobe. These pieces of metal remain attached and create further local overheating during the following revolutions of the camshaft and lead to ultimate failure of the affected components. Listed below are steps to ensure long and trouble free life from the camshaft and associated components.

1. New Piper cam followers **MUST** be used.

2. Coat cam and followers generously with **PIPER** cam lube.

3. Check entire valve train for interference before starting engine, i.e. valve to piston contact, for twin cam engines, valve to valve possible contact and spring boxing. Valve springs should show .030" clearance between centre coils. Valve should have minimum .060" clearance from piston/block. Engines that utilise hydraulic tappets should have at least one inlet and one exhaust tappet temporarily replaced with mechanical item set with zero clearance. This will allow accurate figures to be obtained from the above checks. Once the checks have been done make sure the original hydraulic items are refitted.

4. Do not remove black phosphate coating from cam lobes. This coating helps the bedding in procedure by aiding oil retention on the surface of the cam lobe.

5. To ensure that your Piper camshaft reaches you in the same condition that it left the factory it has been coated with a transparent rust inhibitor that must be removed before fitting. Wash off in a suitable solvent e.g. Paraffin. After washing it is essential that your camshaft be liberally coated with cam lube.

6. It is ESSENTIAL that you ensure that the cam you are fitting is **IDENTICAL IN EVERY WAY** (apart from the lobe forms) to the cam you remove. Failure to check may invalidate you warranty.

7. Before starting all engines, prime the oil system by turning the oil pump manually. Fill carburettor with petrol, fill radiator, and ensure correct ignition timing. Engine must start right away and not be subjected to a long grind on the starter.

8. Do not idle engine during the first twenty minutes of operation; rpm should be kept at 2500 or above; in pushrod engines oil throw-off from the crank may not be sufficient to lubricate the cam followers. Also contact stresses at the nose of the cam are very high at low speed. If adjustments need to be made during the twenty minutes break-in period, shut the engine down. DO NOT IDLE.

9. In some OHC engines where reprofiled cams are used, you may need larger than standard adjustment shims.

10. When modifying engines that utilise finger followers i.e. Ford Pinto SOHC engine. It is imperative that you ensure the followers sit in a horizontal position. Failure to do so will alter the rocker geometry. Increasing or decreasing the valve lift can result in failure.

11. HAVE YOU CHANGED YOUR CAM BELT? The importance of changing your cam belt at the manufacturers recommended intervals could not be overemphasized. A failure of this item will more often than not result in massive engine damage. Our range of belts have been specifically designed to cope with the demands of a competition engine, if you are in any doubt as to the mileage your belt has covered.... CHANGE IT! Our up rated belts retail at prices very close to that of a standard replacement item. Do not take a chance, fit a Piper cam belt.

A GUIDE TO CORRECT TIMING

To check your cam timing, you will need a 360 degree protractor and dial gauge. The engine must be set at TDC and the protractor bolted to the crank pulley. Attach the dial gauge so that the foot is resting on valve spring cap (or follower on OHC engine). Attach a pointer to engine and zero the protractor. Engine is now at TDC with the protractor reading zero.

Turn engine until full lift is first shown on dial gauge. Note number of degrees (e.g. 106 degrees ATDC) continue to turn engine and note when lift starts to reduce (e.g. 110 degrees ATDC) true full lift position will, in this case, be 108 degrees. Your figures will differ but true full lift is at midway point.

The correct full lift position for your cam is shown on attached information sheet.

CAMSHAFTS ALFA ROMEO GIULIETTA / GIULIA 1300 / 1600 / 1750 / 2000 8v

Valve lifts quoted assume a rocker ratio of 1:1

PIPER CAMS

Many other profiles available

Part No.	Application	Power Band	Power Increase	Dura Ini	ation _{Exh}	Valve Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		TDC earance Exh	Valve Clearance
ALFRBP270	FAST ROAD	1500-6500	10 BHP	264 deg	264 deg	.400"	.398"	24 - 60	108 deg 108 deg	.078"	.076"	.010" / .25mm
_			-		5	10.15mm	10.11mm	60 - 24		1.98mm	1.93mm	.012" / .30mm
ALFRBP285	ULTIMATE ROAD	2000-7000	15+ BHP	280 deg	280 deg	.430"	.428"	34 - 66	106 deg 106 deg	.118"	.116"	.010" / .25mm
ALL REF 200		2000 1000		200 deg	200 deg	10.92mm	10.87mm	66 - 34	100 deg 100 deg	2.99mm	2.94mm	.012" / .30mm
ALFRBP300	RALLY	2800-7500		200 dog	290 deg	.438"	.436"	39 - 71	106 deg 106 deg	.160"	.158"	.010" / .25mm
ALI INDI 500		2000-7500		230 deg	230 deg	11.13mm	11.08mm	71 - 39	100 deg 100 deg	4.06mm	4.01mm	.012" / .30mm
ALFRBP320	RACE	3000-8000		206 dog	296 deg	.470"	.468"	47 - 73	102 deg 104 deg	.177"	.164"	.010" / .25mm
ALI INDI 520	RACE	3000-0000		230 deg	230 deg	11.94mm	11.89mm	76 - 44	102 deg 104 deg	4.50mm	4.18mm	.012" / .30mm

ALFA ROMEO 75 / 155 / 164 TWIN SPARK 2.0 8v

Valve lifts quoted assume a rocker ratio of 1:1

ALFR20BP270	FAST ROAD 2.0 TWIN SPARK	1500-6500	12 BHP	278 deg 278 d	ea .4	145"	.400"	31 - 67	108 deg 108	dea	.117"	.092"	.014" / .35mm
					⁹ 11.:	.29mm	10.15mm	67 - 31		aog	2.97mm	2.34mm	.016" / .40mm
ALFR20BP285	ULTIMATE ROAD Not recommended for standard injection	2500-7000		290 deg 290 d	.4	438"	.436"	39 - 71	106 deg 106	dog	.157"	.155"	.010" / .25mm
ALI NZOBI ZOS	ULTIMATE ROAD Not recommended for standard injection	2300-7000		230 deg 230 d	eg 11.	.13mm	11.08mm	71 - 39	100 deg 100	ueg	4.00mm	3.95mm	.012" / .30mm
ALFR20BP300	RALLY	2800-7500		300 deg 300 d	.4	480"	.478"	47 - 73	103 deg 106		.180"	.164"	.008" / .20mm
		2000-7300		500 deg 500 d	ey 12.	.19mm	12.13mm	76 - 44	105 deg 100	ueg	4.57mm	4.17mm	.010" / .25mm

ALFA ROMEO 145 /146 / 155 / 156 / GTV / SPIDER 1.8 / 2.0 16V VVT

Valve lifts quoted assume a rocker ratio of 1:1

AR16VBP270H	FAST ROAD	1500-6500	10 BHP	258 deg 258 deg	.395" 10.03mm	.395" 10.03mm	19 - 59 59 - 19	110 deg	110 deg	.053" 1.33mm	.053" 1.33mm	HYDRAULIC
AR16VBP285	ULTIMATE ROAD	2500-7500		272 deg 264 deg	.432"	.415"	30 - 62	106 deg	106 deg	.084"	.081"	.008" / .20mm
					10.97mm	10.53mm	58 - 26	, , , , , , , , , , , , , , , , , , ,	÷	2.14mm	2.06mm	.010" / .25mm
AR16VBP300	RALLY	3000-8000		276 deg 276 deg	.457"	.450"	32 - 64	106 deg	106 deg	.110"	.097"	.008" / .20mm
		0000 0000		210 deg 210 deg	11.60mm	11.42mm	64 - 32	100 deg	100 deg	2.80mm	2.46mm	.010" / .25mm
AR16VBP320	RACE	3000-8000		284 deg 276 deg	.469"	.455"	40 - 64	102 deg	102 deg	.161"	.130"	.008" / .20mm
AITIOVBF 320		3000-8000		204 deg 270 deg	11.91mm	11.55mm	60 - 36	102 deg	TOZ deg	4.08mm	3.29mm	.010" / .25mm

ALFA ROMEO GTV6 / 156 / 164 V6 24V

Valve lifts quoted assume a rocker ratio of 1:1

ARV6BP270H FAST ROAD	1500-6500	15 BHP	260 deg 260 deg	.380" 9.65mm	.380" 9.65mm	21 - 59 59 - 21	109 deg 109 deg	.040" 1.00mm	.040" 1.00mm	HYDRAULIC
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ALFA ROMEO 33 / 145 / 146 1.7ie 16V BOXER

Valve lifts quoted assume a rocker ratio of 1:1

AR17BP270H FAST ROAD 1500-6			.380" 9.65mm	.380" ^{9.65mm}	21 - 59 59 - 21	109 deg 109 deg	.040" 1.00mm	.040" 1.00mm	HYDRAULIC
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AUDI - SEE V.A.G.

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLAR16V - Alfa Romeo 2.0 16v hydraulic follower set

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CAMSHAFTS ASTON MARTIN DB5 / DB6



Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valve Inl	e Lift Exh	Timing	Full Inl ATDC E			earance Exh	Valve Clearance
ASTONBP285	ULTIMATE ROAD	1800-6500		284 deg	284 deg	.448" 11.37mm	.446" 11.32mm	34 - 70 70 - 34	108 deg	108 deg	.127" 3.23mm	.125" 3.18mm	.012" / .30mm .014" / .35mm
ASTONBP300	RALLY	2500-7000		300 deg	300 deg	.523" 13.28mm	.521" 13.23mm	44 - 76 76 - 44	106 deg	106 deg	.178" 4.52mm	.176" ^{4.47mm}	.012" / .30mm .014" / .35mm
ASTONBP320	RACE	2800-7500		310 deg	310 deg	.543" 13.79mm	.541" 13.74mm	51 - 79 79 - 51	104 deg	104 deg	.191" ^{4.85mm}	.189" ^{4.80mm}	.017" / .43mm .019" / .48mm

AUSTIN HEALEY SPRITE - SEE BMC A SERIES

AUSTIN HEALEY 100/4

Valve lifts quoted assume a rocker ratio of 1.45:1

AH4M	LE MANS M SPEC	1000-5000		244 deg	244 deg	.411"	.409"	14 - 50	108 deg	.037"	.022"	.013" / .33mm
					_ dog	10.44mm	10.38mm	50 - 14	. 	0.94mm	0.56mm	.015" / .38mm
AH4BP270	FAST ROAD	1500-5500	10 BHP	272 deg	272 deg	.400"	.398"	31 - 61	105 deg	.074"	.050"	.014" / .35mm
711481 270		1000 0000	TO BIT	ZIZ deg	212 009	10.16mm	10.11mm	66 - 26	100 deg	1.89mm	1.26mm	.016" / .40mm
AH4BP285	ULTIMATE ROAD Additional machining required	2000-6000	15 BHP	288 deg	288 dea	.421"	.419"	39 - 69	105 deg	.105"	.080"	.014" / .35mm
711481 200		2000 0000	IO BIII	200 deg	200 deg	10.69mm	10.64mm	74 - 34	100 deg	2.66mm	2.02mm	.016" / .40mm
AH4BP300	RALLY Additional machining required	2500-6500		296 deg	296 deg	.456"	.454"	43 - 71	104 deg	.138"	.136"	.016" / .40mm
		2000 0000		200 deg	200 deg	11.59mm	11.54mm	71 - 43		3.52mm	3.46mm	.018" / .45mm

AUSTIN HEALEY 3000

Valve lifts quoted assume a rocker ratio of 1.45:1

AH3BJ8	BJ8 - MK3 HEALEY S	STD PROFILE	1000-5000		266 deg	266 deg	.371" 9.54mm	.369" 9.38mm	28 - 58 63 - 23	105 deg	.073" 1.85mm	.052" 1.32mm	.015" / .38mm .016" / .40mm
AH3BP270	FAST ROAD		1300-5200	14 BHP	272 deg	272 deg	.400" 10.16mm	.398" 10.11mm	31 - 61 66 - 26	105 deg	.074" 1.89mm	.042" 1.07mm	.014" / .35mm .016" / .40mm
AH3BP285	ULTIMATE ROAD	Additional machining required	1600-6000	20 BHP	288 deg	288 deg	.421" 10.69mm	.419" 10.64mm	39 - 69 74 - 34	105 deg	.105" 2.66mm	.080" 2.02mm	.014" / .35mm .016" / .40mm
AH3BP300	RALLY	Additional machining required	2000-6500		296 deg	296 deg	.456" 11.59mm	.454" 11.54mm	43 - 71 71 - 43	104 deg	.138" 3.52mm	.136" 3.46mm	.016" / .40mm .018" / .45mm
AH3BP320	RACE	Additional machining required	3000-7500		328 deg	328 deg	.548" 13.91mm	.546" 13.86mm	62 - 86 87 - 61	102 deg	.218" 5.53mm	.210" 5.34mm	.016" / .40mm .018" / .45mm
AH3SPRINT	RALLY RACE	Additional machining required	2000-6800		320 deg	300 deg	.455" 11.56mm	.453" 11.51mm	60 - 80 75 - 45	100 deg	.188" 4.78mm	.132" 3.34mm	.015" / .38mm .015" / .38mm
AH3SSPRINT	RACE	Additional machining required	2500-7000		320 deg	320 deg	.455" 11.56mm	.453" 11.51mm	60 - 80 85 - 55	100 deg	.188" ^{4.78mm}	.163" 4.13mm	.015" / .38mm .015" / .38mm

(Please note on repro option profiles may vary from specs listed)

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLAHR - Austin Healey 3000 competition follower set VDSAH6 - Austin Healey 3000 double valve springs

CAMSHAFTS BMC A SERIES MINI / METRO / MIDGET

ive, SCD star drive, MET for metro Prefix p All billet camshafts have drilled lobes for additional lubrication

part number with type of oil pump drive.	PD pin	driv

Part No.	Application		Power Band	Power Increase	Dura Ini	ation _{Exh}	Valve Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		TDC earance Exh	Valve Clearance
BP255	MILD ROAD / TURBO	Excellent all round cam for all engines sizes. Excellent torque, smooth idle	1000-6000	8 BHP	264 deg	264 deg	.360" 9.14mm	.360" 9.14mm	24 - 60 60 - 24	108 deg	.042" 1.07mm	.042" 1.07mm	.012" / .30mm .012" / .30mm
BP270	FAST ROAD	Carb' cam for use in all engine sizes. Smooth idle. No machining required	1500-6500	10 BHP	276 deg	276 deg	.385" 9.78mm	.385" ^{9.78mm}	31 - 65 65 - 31	107 deg	.082" 2.08mm	.080" 2.03mm	.012" / .30mm .012" / .30mm
BP270i	FAST ROAD	Single Point Injection cam. Excellent torque and very good idle	1500-6500	8 BHP	252 deg	264 deg	.326" 8.28mm	.346" 8.76mm	16 - 56 62 - 22	110 deg	.038" 0.97mm	.042"	.016" / .40mm .016" / .40mm
BP270MPi	FAST ROAD	Multipoint Injection cam. Excellent torque and very good idle	1500-6500	10 BHP	252 deg	264 deg	.350" ^{8.89mm}	.346" 8.76mm	16 - 56 57 - 27	110 deg	.046" 1.17mm	.061" 1.55mm	.012" / .30mm .016" / .40mm
METSC1	FAST ROAD +	Designed for supercharged application	1700-7000		280 deg	276 deg	.408" 10.36mm	.391" _{9.94mm}	33 - 68 66 - 31	108 deg	.088" 2.24mm	.080" 2.03mm	.012" / .30mm .012" / .30mm
BP285	ULTIMATE ROAD	For use in 1275 and larger engines massive improvements in mid range torque and power	2000-7000	14 BHP	280 deg	280 deg	.400" 10.16mm	.400" 10.16mm	33 - 67 67 - 33	107 deg	.088" 2.24mm	.088" 2.24mm	.012" / .30mm .012" / .30mm
BP300	RALLY RACE	Torque and Power are what you need to win rallies. That is exactly what this cam gives	3000-8000		316 deg	316 deg	.390" 9.89mm	.390" 9.89mm	54 - 82 82 - 54	104 deg	.149" 3.78mm	.149" 3.78mm	.014" / .35mm .014" / .35mm
BP320	RACE	The reputation of this cam is legendary. It gives over 150bhp in 1380 engines	4000-8500		320 deg	320 deg	.420"	.420"	57 - 83 83 - 57	103 deg	.159" 4.04mm	.159" 4.04mm	.012" / .30mm .012" / .30mm
649+	RACE	The original 649 was an excellent cam, This derivative gives similar characteristics but more power	3000-7500		300 deg	312 deg	.400" 10.16mm	.420" 10.67mm	50 - 70 81 - 51	100 deg	.139" 3.53mm	.149" 3.78mm	.014" / .35mm .016" / .40mm
457	BRISCA MINISTOCK		3000-7500		276 deg	284 deg	.400" 10.16mm	.400" 10.16mm	32 - 64 68 - 36	106 deg	.103" 2.62mm	.093" 2.36mm	.010" / .25mm .012" / .30mm
466	SPEDEWORTH MINIS	TOCK For use with restrictor plate	3000-7000		272 deg	272 deg	.345" ^{8.76mm}	.350" ^{8.89mm}	32 - 60 65 - 27	104 deg	.065" 1.65mm	.050" 1.27mm	.012" / .30mm .012" / .30mm
2046	SPEDEWORTH MINIS	TOCK For use with 17mm restrictor	3000-7000		256 deg	256 deg	.366" 9.30mm	.364" 9.25mm	24 - 52 52 - 24	104 deg	.066" 1.68mm	.064" 1.63mm	.012" / .30mm .014" / .35mm
	A SERIES T	IIOR" STYLE BILLET CAMS				ANY PROFILE							

CAM KITS BMC A SERIES MINI / METRO / MIDGET INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KB255 / 270 / 270i	X	FOLMIN	VDSMIN2								X
KBMET270MPI	X	FOLMIN	VDSMIN2								x
KB285 / 300 / 320 / 649+	X	FOLMIN	VDSMIN2								X

ADDITIONAL COMPONENTS FOR ABOVE ENGINES: NOTE BILLET CAMSHAFTS ARE ONLY AVAILABLE IN METRO SLOT TYPE OIL PUMP DRIVE FOLMIN - A Series cam follower set

PULSMIN - A Series vernier duplex kit

PULDMIN - A Series all Alloy vernier duplex kit

(Please note on repro option profiles may vary from specs listed)

Valve lifts quoted assume a rocker ratio of 1.28:1

MINKEY2 - 2 Deg offset key MINKEY4 - 4 Deg offset key MINKEY6 - 6 Deg offset key

VDSMIN2 - Uprated double valve spring set VDSMINR - Race double valve spring set SC1 - A series steel spring retainer set TCMIN - Duplex timing chain

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PIPER CAMS

CAMSHAFTS BMC B SERIES MGA / MGB

Valve lifts quoted assume a rocker ratio of 1.42:1

All MGB steel billet cams have cross drilled distributor drive gears to aid lubrication.

PIPER CAMS

Part No.	Application		Power Band	Power Increase	Dura	ation Exh	Valv Inl	e Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC		D TDC earance Exh	Valve Clearance
BBP255	MILD ROAD		1000-6000	8 BHP	270 deg	252 deg	.405" 10.29mm	.389" ^{9.88mm}	27 - 63 64 - 28	108 deg	.072" 1.83mm	.059" 1.50mm	.012" / .30mm .014" / .35mm
BBP270	FAST ROAD		1500-6500	12 BHP	276 deg	276 deg	.405" 10.29mm	.403" 10.23mm	31 - 65 65 - 31	107 deg	.085" 2.16mm	.075" 1.90mm	.014" / .35mm .016" / .40mm
BBP285	ULTIMATE ROAD		2000-6750	18 BHP	278 deg	278 deg	.445" 11.30mm	.445" 11.30mm	32 - 66 66 - 32	107 deg	.097" 2.46mm	.097" 2.46mm	.014" / .35mm .014" / .35mm
BBP300	RALLY		2500-7000		310 deg	310 deg	.460" 11.68mm	.458" 11.63mm	49 - 81 81 - 49	106 deg	.166" 4.22mm	.164" 4.17mm	.016" / .40mm .018" / .45mm
BBP320	RACE		3000-7500		312 deg	312 deg	.465" 11.81mm	.465" 11.81mm	53 - 79 79 - 53	103 deg	.175" 4.45mm	.175" 4.45mm	.014" / .35mm .014" / .35mm
B929	RACE	Standard lift long duration	2500-7000		300 deg	300 deg	.360" 9.13mm	.360" 9.13mm	44 - 76 76 - 44	106 deg	.119" 3.02mm	.133" 3.38mm	.014" / .35mm .016" / .40mm
B851	ULTIMATE RACE	For use with MGC diameter followers only.	3500-7800		328 deg	328 deg	.536" 13.61mm	.534" 13.56mm	58 - 90 88 - 60	106 deg	.192" 4.88mm	.211" 5.36mm	.016" / .40mm .018" / .45mm
B714	FAST ROAD		2000-6000		268 deg	268 deg	.358" 9.09mm	.358" 9.09mm	24 - 64 59 - 29	110 deg	.067" 1.70mm	.085" 2.16mm	.015" / .38mm .015" / .38mm
B864	ULTIMATE ROAD		2500-6500		268 deg	268 deg	.358" 9.09mm	.358" 9.09mm	36 - 52 56 - 32	98 deg	.107" 2.72mm	.083" 2.11mm	.018" / .45mm .018" / .45mm
B770	RALLY		3000-7000		300 deg	310 deg	.445" 11.30mm	.445" 11.30mm	50 - 70 75 - 45	100 deg	.153" 3.89mm	.129" 3.28mm	.018" / .45mm .018" / .45mm
B862	RACE SPRINT		3500-7500		320 deg	300 deg	.445" 11.30mm	.445" 11.30mm	60 - 80 75 - 45	100 deg	.182" 4.72mm	.129" 3.28mm	.018" / .45mm .018" / .45mm
B863	RACE SUPERSPRINT		4000-8000		320 deg	320 deg	.445" 11.30mm	.445" 11.30mm	60 - 80 80 - 60	100 deg	.182" 4.72mm	.182" 4.72mm	.018" / .45mm .018" / .45mm

CAM KITS BMC B SERIES - MGA / MGB

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBB270 / 285 / 300 / 320	Х	FOLB / FOLB2*	VSSB / VDSB2*								x

NOTE The camkit for the BMC B SERIES is priced for post 1971 18v engine type for the earlier engine types please see notes below.

NOTE prefix* for Cam kits requiring FOLB2 followers (pre 1971)please add £25.00 to kit repro*/billet* price. NOTE prefix* for Cam kits requiring VDSB2 double valve springs(pre 1971) please add £18.00 to kit repro*/billet* price. ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSB - Uprated single valve spring set 18v VDSB2 - Uprated double valve spring set pre 71 (Please note on repro option profiles may vary from specs listed) MINKEY2 - 2 Deg offset key MINKEY4 - 4 Deg offset key MINKEY6 - 6 Deg offset key PULSB - B series vernier duplex kit PULSBS - B series vernier cam sprocket FOLB - post 71 B series cam follower set FOLB2 - Pre 71 B series cam follower set

CAMSHAFTS BMW E30 2002 / 316 / 318 M10

Valve lifts quoted as

Part No.

BMW4BP270

BMW4BP285

PAGE 10

.010" / .25mm

a	ssume a rocker ratio of 1.29:1										PII	PEN GAMƏ
	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valv Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC	Lift @ with cle Inl	-	Valve Clearance
	FAST ROAD	2000-6500	10 BHP	268 deg	268 deg	.396" 10.06mm	.396" 10.06mm	24 - 64 64 - 24	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm
	ULITMATE ROAD	2500-7000	16 BHP	292 deg	292 deg	.400"	.400"	36 - 76	110 deg	N/A	N/A	.010" / .25mm

10.16mm

10.16mm

76 - 36

BMW E36 318i M40

Valve lifts quoted assume a rocker ratio of 1.73:1

BMWM40BP270H	FAST ROAD	1500-6000	10 BHP	264 deg	264 deg	.450" 11.43mm	.450" 11.43mm	22 - 62 62 - 22	110 deg	N/A	N/A	HYDRAULIC
BMWM40BP285H	ULTIMATE ROAD	2000-6500	14 BHP	278 deg	278 deg	.475" 12.07mm	.475" 12.07mm	31 - 67 67 - 31	108 deg	N/A	N/A	HYDRAULIC

BMW E36 318 IS 16v M42

Valve lifts quoted assume a rocker ratio of 1:1

10.16mm 10.16mm 10.16mm 62 - 22 10.07mm 1.07mm 1.07mm	BMWISBP270	FAST ROAD	1500-6000	10 BHP	264 deg	264 deg	.400"	.400"	22 - 62	110 deg 110 deg	.042"	.042"	HYDRAULIC
	BIIITIGBI 210		1300-0000				10.16mm	10.16mm	62 - 22	TTO deg TTO deg	1.07mm	1.07mm	IIIBIGGEIG

BMW E30 320 / 323 / 325 'SMALL SIX' M20

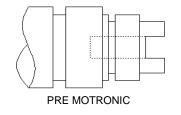
Valve lifts quoted assume a rocker ratio of 1.56:1

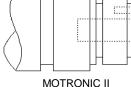
BMWS6BP270 FAST ROAD	1500-6500	12 BHP	274 deg	274 deg	.410" 10.41mm	.410" 10.41mm	27 - 67 67 - 27	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm
BMWS6BP285 ULTIMATE ROAD	2200-7000	14 BHP	292 deg	292 deg	.420" 10.66mm	.420" 10.66mm	36 - 76 76 - 36	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm

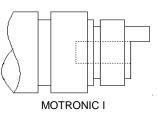
BMW 528 / 530 / 535 'LARGE SIX'

Valve lifts quoted assume a rocker ratio of 1.29:1

BMWL6BP270	FAST ROAD	1500-6500	12 BHP	280 deg 276 deg	.390" _{9.91mm}	.400" 10.16mm	26 - 74 72 - 24	114 deg	N/A	N/A	.016" / .40mm .016" / .40mm
BMWL6BP285	ULTIMATE ROAD	2200-7000	18 BHP	288 deg 288 deg	.400" 10.16mm	.400" 10.16mm	34 - 74 74 - 34	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm







CAMSHAFTS CITROEN - SEE PEUGEOT

FIAT UNO TURBO & PUNTO GT

Valve lifts quoted assume a rocker ratio of 1:1

Oversize shims or skimmed carrier may be required

Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valve Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC	Lift @ with cle Inl	TDC arance Exh	Valve Clearance
FIAUNOTBP270	FAST ROAD	1000-6000	15 BHP	270 deg	250 deg	.409" 10.40mm	.364" 9.00mm	23 - 67 57 - 13	112 deg	.053" 1.35mm	.022" 0.56mm	.016" / .40mm .018" / .45mm
FIAUNOTBP285	ULTIMATE ROAD	2000-7000	20 BHP	276 deg	250 deg	.433" 11.00mm	.374" 9.50mm	26 - 70 57 - 13	112 deg	.071" 1.80mm	.022" 0.56mm	.016" / .40mm .018" / .45mm
FIAUNOTBP300	RALLY	2600-7500		280 deg	258 deg	.452" 11.50mm	.393" ^{9.98mm}	30 - 70 59 - 19	110 deg	.123" 3.12mm	.057" 1.45mm	.016" / .40mm .018" / .45mm

FIAT X19 / 128 1.3 / 1.5 SOHC

Valve lifts quoted assume a rocker ratio of 1:1

FIAX19BP270	FAST ROAD	2000-6500	10 BHP	280 deg	280 deg	.385"	.385"	33 - 67	107 deg	.103"	.097"	.008" / .20mm
						9.80mm	9.80mm	67 - 33	3	2.61mm	2.46mm	.010" / .25mm
FIAX19BP285	ULTIMATE ROAD	2500-7300	15 BHP	288 deg	288 deg	.410"	.410"	36 - 72	108 deg	.107"	.105"	.008" / .20mm
TIAXISBI 203		2000 7000	10 DHI	200 deg	200 ueg	10.40mm	10.40mm	72 - 36	100 deg	2.72mm	2.67mm	.010" / .25mm
FIAX19BP300	RALLY	3000-7800		290 deg	290 deg	.440"	.440"	39 - 71	106 deg	.156"	.154"	.010" / .25mm
TIAXISBI SOO		00007000		200 deg	200 deg	11.18mm	11.18mm	71 - 39	100 deg	3.96mm	3.91mm	.012" / .30mm
FIAX19BP320	RACE	3500-8000		316 deg	316 deg	.440"	.440"	53 - 83	105 deg	.166"	.164"	.010" / .25mm
FIAA 19DF 320		3300-8000		STO deg	STO deg	11.18mm	11.18mm	83 - 53	105 deg	4.22mm	4.26mm	.012" / .30mm

FIAT TWIN CAM 1.6 / 1.8 / 2.0

Valve lifts quoted assume a rocker ratio of 1:1

FIATTCBP270	FAST ROAD	2000-6500	10 BHP	280 deg	280 deg	.385"	.385"	32 - 68	108 deg	108 deg	.099"	.097"	.008" / .20mm
		2000 0000		200 deg	200 dog	9.80mm	9.80mm	68 - 32	100 deg	100 acg	2.51mm	2.46mm	.010" / .25mm
FIATTCBP285	ULTIMATE ROAD	2500-7000	15 BHP	288 deg	288 deg	.410"	.410"	36 - 72	108 deg	108 deg	.107"	.105"	.008" / .20mm
TIXTTODI 200		2000 / 000		200 acg	200 acg	10.40mm	10.40mm	72 - 36	100 deg	100 deg	2.72mm	2.67mm	.010" / .25mm
FIATTCBP300	RALLY	3000-7500		290 deg	290 deg	.440"	.440"	39 - 71	106 deg	106 deg	.156"	.154"	.008" / .20mm
1 WALLER ODE		0000 / 000		200 acg	200 deg	11.18mm	11.18mm	71 - 39	100 deg	100 deg	3.96mm	3.91mm	.010" / .25mm
FIATTCBP320	RACE	3500-8000		301 dog	304 deg	.472"	.470"	48 - 76	104 deg	106 deg	.178"	.166"	.008" / .20mm
TIATTODI 520	P320 RACE	3300-0000		504 deg	504 deg	11.98mm	11.93mm	76 - 48	104 deg	100 deg	4.51mm	4.21mm	.010" / .25mm

FIAT 1.2 16v

Valve lifts quoted assume a rocker ratio of 1:1

FIAT12BP270	FAST ROAD	2000-6500	8 BHP	248 deg 248 deg	.320"	.320"	14 - 54	110 deg 110 deg	.016"	.016"	HYDRAULIC
TINTIZBI ZI O		2000 0000	0 DI II	240 deg 240 deg	8.13mm	8.13mm	54 - 14	TTO deg TTO deg	0.40mm	0.40mm	III DI WOEIO

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VDSFTC - Fiat 1.6/2.0 twin cam double valve springs VDSPUN - Fiat Punto GT double valve springs

(Please note on repro option profiles may vary from specs listed)

TBP1 - Fiat Uno turbo 1.3 & X19 1500 comp.cam belt TBP2 - Fiat Uno turbo 1.4 comp.cam belt TBP3 - Fiat 2.0 twin cam comp.cam belt PULDUNO - Fiat Uno turbo / Punto GT alloy vernier pulley PULDX19 - Fiat X19 / 128 SOHC alloy vernier pulley PULDFTC - Pr Fiat twin cam 1.6/2.0 alloy vernier pulleys PULDFIRE - Fiat fire alloy vernier pulley

CAMSHAFTS FORD X FLOW 1300 / 1600

Valve lifts quoted assume a rocker ratio of 1.5:1

PIPER CAMS

Many other profiles are available. Ask for details

Part No.	Application		Power Band	Power Increase	Dura Ini	tion _{Exh}	Valv Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		TDC earance Exh	Valve Clearance
XFBP255	MILD ROAD	Ideal for autotest and trials where low down torque is required. No other engine mods required	1000-6000	8 BHP	260 deg	260 deg	.384" ^{9.75mm}	.384" ^{9.75mm}	21 - 59 59 - 21	109 deg	.048" 1.22mm	.048" 1.22mm	.018" / .45mm .018" / .45mm
XFBP270	FAST ROAD	Excellent power & torque improvement with smooth idle. Ideal with twin carbs & 4:2:1 manifold	1500-6500	12 BHP	268 deg	268 deg	.415" 10.54mm	.413" 10.49mm	26 - 62 62 - 26	108 deg	.070" 1.78mm	.068" 1.72mm	.014" / .35mm .014" / .35mm
XFBP285	ULTIMATE ROAD	Massive improvements in mid range and top end power. No machining required	2500-7500	18 BHP	292 deg	292 deg	.430" 10.92mm	.430" 10.92mm	38 - 74 74 - 38	108 deg	.086" 2.18mm	.086" 2.18mm	.014" / .35mm .014" / .35mm
XFBP300	RALLY	For use in well modified engines where serious power and 'thumping' mid range torque is required	3000-8000		316 deg	316 deg	.459" 11.66mm	.459" 11.66mm	54 - 82 82 - 54	104 deg	.177" ^{4.50mm}	.177" ^{4.50mm}	.015" / .38mm .015" / .38mm
XFBP320	RACE	The ultimate race profile. Designed to give phenominal top end power and a wide power band	4000-8500		320 deg	320 deg	.493" 12.52mm	.493" 12.52mm	57 - 83 83 - 57	103 deg	.186" ^{4.72mm}	.186" ^{4.72mm}	.014" / .35mm .014" / .35mm
XF391	1300 STOCKROD	No machining required. This is the hottest profile that can be installed without machining.	3000-7000		296 deg	296 deg	.440" 11.18mm	.440" 11.18mm	38 - 78 78 - 38	110 deg	.104" ^{2.64mm}	.104" ^{2.64mm}	.018" / .45mm .018" / .45mm
XFA6	RACE				324 deg	324 deg	.410" 10.42mm	.408" 10.37mm	56 - 88 88 - 56	106 deg	. 154" ^{3.91mm}	.152" ^{3.86mm}	.016" / .40mm .018" / .45mm
XFA8	RACE				332 deg	332 deg	.411" 10.43mm	.409" 10.38mm	66 - 88 88 - 66	100 deg	.171" ^{4.34mm}	.169" ^{4.29mm}	.017" / .43mm .019" / .48mm
XFA9	RACE				336 deg	336 deg	.441" 11.19mm	.439" 11.14mm	64 - 92 92 - 64	104 deg	.169" 4.29mm	.167" ^{4.24mm}	.017" / .43mm .019" / .48mm

CAM KITS FORD X FLOW 1300 / 1600 INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBXF255 / 270	х	FOLFW	VSSF								X
KBXF285	X	FOLFW	VDSFBPR		VSOXF	SC10					X
KBXF300 / 320	X	FOLFW	VDSFBPR		VSOXF	SC10					X

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

Note * prefix after price = require customers camshaft.

(Please note on repro option profiles may vary from specs listed)

PULSXF - Xflow vernier duplex kit

TCXF - Xflow duplex timing chain

FOLFW - Xflow 711 follower set

FOLFN - Pre Xflow follower set

XFDOW3 - Xflow 3 Deg offset dowl XFDOW5 - Xflow 5 Deg offset dowl XFDOW7 - Xflow 7 Deg offset dowl XFDOW9 - Xflow 9 Deg offset dowl SC9 - Steel retainers to suit VDSF2 SC10 - Steel spring caps to suit VDSFBPR VSSF - Single valve spring set VDSF2 - Xflow double valve spring kit VDSFBPR - Race double valve springs

CAMSHAFTS FORD 1600 / 1800 / 2000 SOHC 'PINTO'

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1.65:1

CHILL CAST BLANKS FEATURING REINFORCED THRUST GROOVES

Part No.	Application		Power Band	Power Increase	Dura Ini	tion Exh	Valve Inl	e Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC	-	TDC earance Exh	Valve Clearance
OHCBP255	MILD ROAD	Gives improvements in torque throughout the rev range. Ideal for towing. No other engine mods	1500-6000	8 BHP	268 deg	268 deg	.400" 10.16mm	.400" 10.16mm	21 - 67 67 - 21	113 deg	N/A	N/A	.008" / .20mm .010" / .25mm
OHC134	FAST ROAD INJECTION	Excellent power and torque increase combined with smooth idle	2000-6500	15 BHP	266 deg	266 deg	.480" 12.19mm	.480" 12.19mm	23 - 63 63 - 23	110 deg	N/A	N/A	.008" / .20mm .010" / .25mm
OHCBP270	FAST ROAD CARB	For use in carburettor engines, gives excellent power & torque increase combined with a smooth idle	2000-6500	15 BHP	268 deg	268 deg	.430" 10.92mm	.430" 10.92mm	23 - 65 65 - 23	111 deg	N/A	N/A	.008" / .20mm .010" / .25mm
OHCBP285	ULTIMATE ROAD	Excellent mid range and top end power and torque. Good with std carb, ideal with 2 x 45DCOE's	2200-7000	22 BHP	270 deg	290 deg	.465" 11.81mm	.465" 11.81mm	27 - 63 73 - 37	108 deg	N/A	N/A	.008" / .20mm .010" / .25mm
OHCBP300	RALLY	Phenomenal range of torque over a wide rev range is what makes this cam the no.1 choice for rally drivers	2500-7500		292 deg	292 deg	.495" 12.57mm	.495" 12.57mm	40 - 72 72 - 40	106 deg	N/A	N/A	.008" / .20mm .010" / .25mm
OHCBP320	RACE	For circuit racing where outright power is the name of the game. Capable of producing over 220bhp in a 2ltr	4000-8500		322 deg	322 deg	.540" 13.70mm	.540" 13.70mm	57 - 85 85 - 57	104 deg	N/A	N/A	.012" / .30mm .012" / .30mm
OHCA8	RALLY/GRASS/ 2.0 HOT	r ROD	2800-7800		304 deg	304 deg	.500" 12.70mm	.500" 12.70mm	48 - 76 76 - 48	104 deg	N/A	N/A	.008" / .20mm .010" / .25mm
OHC947	F2 SUPERSTOCK	Fantastic oval cam gives massive torque for excellent corner acceleration	3000-7900		300 deg	300 deg	.510" 12.95mm	.510" 12.95mm	46 - 74 74 - 46	104 deg	N/A	N/A	.008" / .20mm .010" / .25mm
OHC1802	F2 SUPERSTOCK		3000-7900		298 deg	298 deg	.490" 12.45mm	.490" 12.45mm	43 - 75 75 - 43	106 deg	N/A	N/A	.010" / .25mm .012" / .30mm

CAM KITS

FORD 1600 / 1800 / 2000 SOHC 'PINTO' INCLUDE:

Part No.	Cam	Followers	Valve Springs	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBOHC 255 / 134 / 270 / 285	х	FOLOHC	VSSOHC	VSOOHC		SBAR	BSTUD *			X
KBOHC A8 / 947 / 1802	х	FOLOHC	VSSOHC	VSOOHC		SBAR	BSTUD *			x
KBOHC 300 / 320	Х	FOLOHC	VSSOHC	VSOOHC		SBAR	BSTUD *			X

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

Note * Kit includes std length ball studs (33mm available at extra cost)

VSSOHC - SOHC single valve spring set VDSOHCR - SOHC double valve spring set SC8A - Steel retainers for single springs SC8B - Steel retainers for double springs PULDOHC - SOHC alloy vernier pulley FOLOHC - SOHC follower set PULDAUX - SOHC alloy auxilary pulley VSOOHC - SOHC valve stem seals TBP7 -1.8/2.0 Competition cam belt TBP6 - 1.6 Competition cam belt BSTUD - SOHC ball stud set BSTUD33 - SOHC ball stud set 33mm length SBAR - SOHC spray bar

CAMSHAFTS FORD BDA/BDG/BDT

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration	Exh	Valve Inl	Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		-	TDC earance Exh	Valve Clearance
BDAL1				304 deg 304	deg	.400" 10.16mm	.400" 10.16mm	46 - 78 78 - 46	106 deg	106 deg	.134" 3.40mm	.134" 3.40mm	.010" / .25mm .010" / .25mm
BDAF1				320 deg 320) deg	.400" 10.16mm	.400" 10.16mm	58 - 82 82 - 58	106 deg	106 deg	.163" 4.15mm	.163" 4.15mm	.010" / .25mm .010" / .25mm
BDAPH4				312 deg 312	deg	.427" 10.84mm	.427" 10.84mm	50 - 82 82 - 50	106 deg	106 deg	.162" 4.11mm	.162" 4.11mm	.010" / .25mm .010" / .25mm
BDABD4				312 deg 312	deg	.418" 10.66mm	.418" 10.61mm	54 - 78 80 - 52	106 deg	106 deg	.153" 3.88mm	.153" 3.88mm	.010" / .25mm .010" / .25mm
BDADA10				312 deg 312	deg	.400" 10.16mm	.400" 10.16mm	50 - 82 82 - 50	106 deg	106 deg	.144" 3.66mm	.144" 3.66mm	.010" / .25mm .010" / .25mm
BDADA19				304 deg 304	deg	.443" 11.24mm	.443" 11.24mm	46 - 78 78 - 46	106 deg	106 deg	.143" 3.83mm	.143" 3.83mm	.010" / .25mm .010" / .25mm

FORD V6 3.0 'ESSEX'

Valve lifts quoted assume a rocker ratio of 1.47:1

V630BP270	FAST ROAD	1500-6500	18 BHP	272 deg	272 deg	.403"	.401"	28 - 64	108 deg	.062"	.060"	.014" / .35mm
			-			10.24mm	10.18mm	64 - 28		1.57mm	1.52mm	.016" / .40mm
V630BP285	ULTIMATE ROAD	2000-6500	24 BHP	288 deg	288 deg	.457"	.455"	35 - 73	109 deg	.086"	.084"	.014" / .35mm
V000B1 200		2000 0000		200 deg	200 deg	11.61mm	11.56mm	73 - 35	100 deg	2.18mm	2.13mm	.016" / .40mm
V630BP300	RALLY	3000-7000		300 deg	300 deg	.438"	.438"	42 - 78	108 deg	.115"	.113"	.014" / .35mm
1000001 000		00001000		000 deg	000 deg	11.13mm	11.13mm	78 - 42	100 deg	2.92mm	2.87mm	.016" / .40mm
V620BD220	RACE	3500-7500		320 deg	320 deg	.450"	.450"	54 - 86	106 deg	.166"	.164"	.012" / .30mm
V630BP320 RAC	NACE	3300-7300		JZU deg	320 deg	11.43mm	11.43mm	86 - 54	TOO deg	4.22mm	4.17mm	.014" / .35mm

FORD V6 2.3 / 2.8 'COLOGNE' CARB (Please note post 1982 blanks limited availability)

Valve lifts quoted	assume a rocker ratio of 1.47:1	State	year when o	rdering: B	earing siz	e change	e - No.1 jo	unal Pre 1	982 =1.652"/41.90m	nm. Post	1982 =1.	730"/43.90mm.
V623BP270	FAST ROAD	1500-6500	15 BHP	272 dea	272 dea	.403"	.403"	28 - 64	108 deg	.062"	.060"	.014" / .35mm
V020B1 210		1000 0000	10 Bill	212 009	ZIZ deg	10.24mm	10.24mm	64 - 28	100 deg	1.57mm	1.52mm	.016" / .40mm
V623BP285	ULTIMATE ROAD	2200-6800	20 BHP	282 deg	272 deg	.416"	.403"	33 - 69	108 deg	.072"	.062"	.012" / .30mm
V023DF 203		2200-0000	20 BHF	ZOZ deg	ZIZ deg	10.57mm	10.24mm	64 - 28	TOO deg	1.83mm	1.57mm	.014" / .35mm
V623BP300	RALLY	3000-7000		300 deg	300 deg	.438"	.438"	42 - 78	108 deg	.115"	.113"	.014" / .35mm
V023BF 300		3000-7000		SOU deg	SOU deg	11.13mm	11.13mm	78 - 42	TOO deg	2.92mm	2.87mm	.016" / .40mm
V623BP320	RACE	3500-7500		320 deg	320 deg	.450"	.450"	54 - 86	106 deg	.166"	.164"	.012" / .30mm
V023DF320	RACE	3500-7500		SZU deg	320 deg	11.43mm	11.43mm	86 - 54	TUO deg	4.22mm	4.17mm	.014" / .35mm

CAM KITS FORD V6 2.3 / 2.8 ' COLOGNE' CARB ENGINE INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBV623270 / 285	Х	FOLV6G	VSSV6G								x

FORD V6 3.0 'ESSEX' INCLUDE:

KBV630270 / 285 X FOLV6	VSSV6						х
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLV6 - Essex V6 cam follower set FOLV6G - Cologne V6 cam follower set VSSV6G - Cologne V6 single valve spring set VSSV6 - Essex V6 single valve spring set

PIPER CAMS

CAMSHAFTS FORD V6 2.8 'COLOGNE' INJECTION ENGINE (Please note post 1982 blanks limited availability)



Valve lifts quoted assume a rocker ratio of 1.47:1

State year when ordering: Bearing size change - No.1 jounal Pre 1982 =1.652"/41.90mm. Post 1982 =1.730"/43.90mm.

Part No.	Application	Power Band	Power Increase	Dura Ini	ation _{Exh}	Valve Ini	e Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC		earance Exh	Valve Clearance
V628BP270	FAST ROAD	1500-6500	15 BHP	272 deg	272 deg	.403" 10.24mm	.403" 10.24mm	24 - 68 68 - 24	112 deg	.043" 1.09mm	.041" 1.04mm	.014" / .35mm .016" / .40mm
V628BP285	ULTIMATE ROAD	2000-6500	20 BHP	276 deg	276 deg	.422" 10.72mm	.422" 10.72mm	26 - 70 70 - 26	112 deg	.052" 1.32mm	.050" 1.27mm	.012" / .30mm .014" / .35mm
V628BP300	RALLY	3000-7000		300 deg	300 deg	.438" 11.13mm	.438" 11.13mm	42 - 78 78 - 42	108 deg	.115" 2.92mm	.113" ^{2.87mm}	.014" / .35mm .016" / .40mm
V628BP320	RACE	3500-7500		320 deg	320 deg	.450" 11.43mm	.450" 11.43mm	54 - 86 86 - 54	106 deg	.166" ^{4.22mm}	.164" ^{4.17mm}	.012" / .30mm .014" / .35mm

FORD V6 2.9 ENGINE

Valve lifts quoted assume a rocker ratio of 1.47:1

V629BP270	FAST ROAD	1500-6500	14 BHP	268 deg	268 deg	.403" 10.24mm	.403" 10.24mm	23 - 65 65 - 23	111 deg	.040" 1.01mm	.038" 0.96mm	.018" / .45mm .020" / .50mm
V629BP285	ULTIMATE ROAD	2200-6800	20 BHP	290 deg	290 deg	.427"	.427" 10.85mm	37 - 73 73 - 37	108 deg	.075" 1.90mm	.073"	.012" / .30mm .014" / .35mm
V629BP300	RALLY	3000-7000		300 deg	300 deg	.438"	.438"	42 - 78 78 - 42	108 deg	.113" 2.87mm	.111" 2.82mm	.014 / .35mm .016" / .40mm .018" / .45mm
V629BP320	RACE	3500-7500		320 deg	320 deg	.450"	.450"	54 - 86 86 - 54	106 deg	.164"	.162" 4.11mm	.014" / .35mm .016" / .40mm
V629EURO1	RACE Eurocar spec	3000-7300		300 deg	300 deg	.462"	.462"	46 - 74 74 - 46	104 deg	.154" 3.91mm	.152" 3.86mm	.016" / .40mm .018" / .45mm

FORD V6 2.9 COSWORTH FAST ROAD SPEC AVAILABLE FOR BOA & BOB TYPE - REPROFILE OE CAMS ONLY FORD V6 2.5/3.0 NOBLE, MONDEO ST, MONDEO ST220 FAST ROAD SPECS AVAILABLE - REPROFILE OE CAMS ONLY

CAM KITS FORD V6 2.8 'COLOGNE' INJECTION ENGINE INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBV628270 / 285	Х	FOLV6G	VSSV6G								х
KBV628300 / 320	х	FOLV6G	VSSV6G								X

FORD V6 2.9 ENGINE INCLUDE:

KBV629270 / 285	х	FOLV6G	VSSV6G				X
KBV629300 / 320 / EURO1	Х	FOLV6G	VSSV6G				x

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

(Please note on repro option profiles may vary from specs listed)

FOLV6 - Ford V6 3000 cam followers FOLV6G - Ford V6 2.3/2.8/2.9 CAM FOLLOWERS VSSV6G - Cologne V6 single valve spring set VSSNFV6 - Ford V6 2.5/3.0 VALVE SPRING KIT

CAMSHAFTS FORD ESCORT / SIERRA COSWORTH 16v

PIPER CAMS

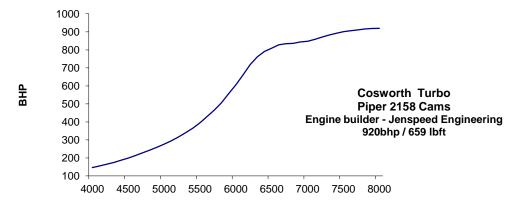
Valve lifts quoted	assume a rocker ratio	of 1:1		Note: If blan	<u>nks cams</u>	are fitted	to 2WD c	ylinder he	eads then a	5mm thru	ist spacer	is requir	ed. Part r	<u>io: COSWASH</u>
Part No.	Application		Power Band	Power Increase	Dura Ini	ation Exh	Valv Ini	e Lift Exh	Timing	Full InI ATDC			earance Exh	Valve Clearance
COSBP270HT	FAST ROAD	Turbo	2000-6200	20 BHP	264 deg	264 deg	.340" 8.64mm	.340" 8.64mm	20 - 64 64 - 20	112 deg	112 deg	.034" _{0.86mm}	.034" ^{0.86mm}	HYDRAULIC
COSBP285HT	ULTIMATE ROAD	Turbo	2500-6600	30 BHP	264 deg	264 deg	.350" 8.89mm	.340" 8.64mm	22 - 62 62 - 22	110 deg	110 deg	.047" 1.19mm	.047" 1.19mm	HYDRAULIC
COSBP300HT	RALLY	Turbo	3000-7000		264 deg	264 deg	.400" 10.16mm	.400" 10.16mm	26 - 58 58 - 26	106 deg	106 deg	.075" 1.90mm	.075" 1.90mm	HYDRAULIC
COSBP320HT	RACE	Turbo	3500-7500		264 deg	264 deg	.428" 10.87mm	.428" 10.87mm	26 - 58 58 - 26	106 deg	106 deg	.078" 1.98mm	.078" 1.98mm	HYDRAULIC
COS2158	RACE	Turbo The "Jenspeed" profile	4500-8000		288 deg	288 deg	.440" 11.17mm	.438" 11.12mm	40 - 68 68 - 40	104 deg	104 deg	.126" 1.98mm	.124" 1.98mm	.008" / .20mm .010" / .25mm
COSBP270H	FAST ROAD	Naturally Aspirated	2000-6500		268 deg	268 deg	.395" 10.03mm	.367" ^{9.32mm}	26 - 62 62 - 26	108 deg	108 deg	.067" 1.70mm	.065" 1.65mm	HYDRAULIC
COSBP285H	ULTIMATE ROAD	Naturally Aspirated	2500-7000		288 deg	288 deg	.407" 10.34mm	.407" 10.34mm	36 - 72 72 - 36	108 deg	108 deg	.086" 2.18mm	.086" 2.18mm	HYDRAULIC
COSBP285M	ULTIMATE ROAD	Naturally Aspirated	2500-7000		274 deg	274 deg	.420" 10.67mm .	.418" 10.62mm .	29 - 65 65 - 29	108 deg	108 deg	.102" 2.59mm	.102" 2.59mm	.008" / .20mm .010" / .25mm
COSBP300H	RALLY	Naturally Aspirated	3000-7500		288 deg	280 deg	.440" 11.18mm	.433" 11.00mm	40 - 68 66 - 34	104 deg	106 deg	.124" 3.15mm	.100" 2.54mm	HYDRAULIC
COSBP300M	RALLY	Naturally Aspirated	3000-7500		304 deg	300 deg	.464" 11.79mm	.420" 10.67mm	49 - 75 75 - 45	103 deg	105 deg	.182" 4.62mm	.144" 3.66mm	.010" / .25mm .010" / .25mm
COSBP320M	RACE	Naturally Aspirated	3500-8000		320 deg	300 deg	.450" 11.43mm	.448" 11.38mm	58 - 82 74 - 46	102 deg	104 deg	.193" ^{4.90mm}	.153" ^{3.89mm}	.008" / .20mm .010" / .25mm

Many other profiles available ie BD10 / 14 / 15 /16 & 16+

CAM KITS

FORD ESCORT / SIERRA COSWORTH YB 16v INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBCOS270HT / 285HT	х	FOLCOSH									X
KBCOS300HT / 320HT	х	FOLCOSH	VDSCOS			SC7					X
KBCOS270H / 285H	x	FOLCOSH	VDSCOS			SC7					X



ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDCOS - Pr cosworth alloy vernier pulleys TBP9 - Cosworth competition cam belt VDSCOS - Cosworth double valve spring set SC7 - Cosworth steel valve spring retainers COSWASH - 5mm thrust spacer FOLCOSH - Cosworth hydraulic follower set FOLCOSM - Cosworth solid follower set PAGE 16

CAMSHAFTS FORD ZETEC 16v 1.6 / 1.8 / 2.0 ESCORT / ORION MK 5-8 / FIESTA MK 3 / MONDEO MK 1

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

All profiles designed for standard diameter tappets unless otherwise stated

Part No.	Application		Power Band	Power Increase	Dura Inl	ation Exh	Valve Ini	e Lift _{Exh}	Timing	Full I Inl ATDC E			earance Exh	Valve Clearance
ZETABP270AH	FAST ROAD	For 1.6 90 bhp engine	1800-6800	12 BHP	264 deg	264 deg	.340" ^{8.64mm}	.340" 8.64mm	22 - 62 62 - 22	110 deg	110 deg	.024" _{0.61mm}	.024" _{0.61mm}	HYDRAULIC
ZETABP270BH	FAST ROAD	For 130 bhp engine	1800-6800	16 BHP	264 deg	260 deg	.395" 10.03mm	.367" ^{9.32mm}	22 - 62 60 - 20	110 deg	110 deg	.058" 1.47mm	.039" _{0.99mm}	HYDRAULIC
ZETABP285H	ULTIMATE ROAD	Not recommended for use with std injection, gives 200bhp in 2.0 running throttle bodies & ported head	2500-7500	22 BHP	280 deg	270 deg	.406" 10.31mm	.370" ^{9.40mm}	36 - 64 59 - 31	104 deg	104 deg	.106" 2.70mm	.089" 2.26mm	HYDRAULIC
ZETABP300M	RALLY		3000-8000		284 deg	280 deg	.450" 11.43mm	.425" 10.80mm	36 - 68 68 - 32	104 deg	104 deg	.123" 3.12mm	.108" 2.75mm	.010" / .25mm .012" / .30mm
ZETABP320M	RACE	Use special tappets part no. FOLZETAM31 with shims underneath	3500-8500		290 deg	284 deg	.484" 12.29mm	.464" 11.79mm	41 - 69 68 - 36	104 deg	106 deg	.142" 3.60mm	.115" 2.92mm	.010" / .25mm .010" / .25mm

FORD RS2000 16v (150HP) GALAXY / SCORPIO 2.3i 16V (145HP)

Valve lifts quoted assume a rocker ratio of 1:1

RS2BP270H	FAST ROAD	2000-7000	10 BHP	264 deg	264 deg	.428" 10.87mm	.396" 10.05mm	22 - 62 62 - 22	110 deg	110 deg	.063" 1.60mm	.058" 1.47mm	HYDRAULIC
RS2BP285H	ULTIMATE ROAD	2500-7500	15 BHP	288 deg	264 deg	.407" 10.33mm	.396" 10.05mm	34 - 74 62 - 22	110 deg	110 deg	.076" 1.93mm	.058" 1.47mm	HYDRAULIC
RS2BP300H	RALLY	2800-8000		290 deg	290 deg	.425" 10.80mm	.425" 10.80mm	41 - 69 73 - 37	104 deg	108 deg	.143" 3.64mm	.128" 3.18mm	HYDRAULIC
RS2BP300M	RALLY	2800-8000		280 deg	280 deg	.423" 10.74mm	.421" 10.69mm	36 - 64 66 - 34	104 deg	106 deg	.121" 3.08mm	.110" 2.80mm	.010" / .25mm .012" / .30mm
RS2BP320M	RACE	3000-8500		288 deg	284 deg	.470" 11.94mm	.443" 11.25mm	40 - 68 68 - 36	104 deg	106 deg	.165" ^{4.20mm}	.137" 3.47mm	.010" / .25mm .012" / .30mm

FORD PUMA 1.7 16v

Valve lifts quoted assume a rocker ratio of 1:1

FOLPUM - Puma 1.7 competition solid follower set

FOLZETAH - Zetec hydraulic follower set

PUMBP270	FAST ROAD	2000-7000	10 BHP	272 deg	240 deg	.358" 9.09mm	.304" 7.72mm	26 - 66 50 - 10	110 deg	110 deg	.055" 1.39mm	.018" 0.40mm	.008" / .20mm .012" / .30mm
PUMRBP270	FAST ROAD - PUMA RACING	2000-7000	10 BHP	272 deg	248 dea	.368"	.343"	26 - 66	110 deg	110 deg	.082"	.024"	.002 / .30mm
		2000 7000		ZIZ deg	2 -10 ueg	9.35mm	8.72mm	54 - 14	TTO deg	TTO deg	2.08mm	0.61mm	.012" / .30mm
PUMBP285	ULTIMATE ROAD Not recommend for use with std injection	3500-8200		280 deg	272 deg	.368"	.358"	34 - 66	106 deg	108 deg	.105"	.061"	.010" / .25mm
1 010101 200		0000 0200		200 deg	212 009	9.35mm	9.09mm	64 - 28	100 deg	100 deg	2.67mm	1.56mm	.010" / .25mm
PUMBP300	RALLY	3500-8500		288 deg	276 deg	.441"	.421"	40 - 68	104 deg	106 deg	.127"	.095"	.008" / .20mm
1 011101 000		0000 0000		200 deg	210 deg	11.19mm	10.68mm	64 - 32	10-7 deg	100 deg	3.23mm	2.41mm	.010" / .25mm

CAM KITS FORD ZETEC 16v 1.6 / 1.8 / 2.0 ESCORT / ORION MK 5-8 / FIESTA MK 3 / MONDEO MK 1 INCLUDES :

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBZETA270AH / 270BH	х	FOLZETAH									х
KBZETA285H	X	FOLZETAH	VSSZETA								X
(Please note on repro option pro	ofiles may vary fr	om specs listed	d)								
ADDITIONAL COMPONENTS FO	R ABOVE ENGIN	IES:	FOLZETAM - Ze	tec solid follower set				VSSZETA - Zetec single valve spring set SC11 - Zetec steel valve spring retainers			
PULDPUM - Puma 1.7 alloy vernie	er exh pulley		FOLZETAM31 - 2	Zetec 31mm oversize	solid follov	ver set		SC11 - Z	etec steel valve s	oring retair	ners

TBP8 - Zetec competition cam belt

PULDZETA - Pr zetec alloy vernier pulleys

VSSZETA - Zetec single valve spring set SC11 - Zetec steel valve spring retainers VSSRS2 - RS2000 16v single valve spring set PAGE 17

CAMSHAFTS FORD FOCUS & FIESTA 1.25 / 1.4 / 1.6 16v

Valve lifts quoted assume a rocker ratio of 1:1 These cams are cnc ground std base circle size, BP285 & hotter may require the head machined to allow the cam to rotate.

Part No.	Application		Power Band	Power Increase	Dur:	ation Exh	Valv Inl	e Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC	with cl	earance Exh	Valve Clearance
FOC12BP270	FAST ROAD	For use in 1.250 capacity engine	2000-7000	8 BHP	232 deg	232 deg	.273" 6.93mm	.271" 6.88mm	6 - 46 46 - 6	110 deg 110 de	.008" 0.21mm	.006" 0.16mm	.014" / .35mm .016" / .40mm
FOC14BP270	FAST ROAD	For use in 1.4 capacity engine	2000-7000	8 BHP	232 deg	232 deg	.300" 7.62mm	.271" 6.88mm	6 - 46 46 - 6	110 deg 110 de	.008" 0.21mm	.006" 0.16mm	.012" / .30mm .016" / .40mm
FOC16BP270	FAST ROAD	For use in 1.6 capacity engine	2000-7000	10 BHP	240 deg	232 deg	.308" 7.83mm	.280" 7.11mm	12 - 48 46 - 6	108 deg 110 de	.025" 0.63mm	.008" 0.20mm	.012" / .30mm .014" / .35mm
FOC16BP285	ULTIMATE ROAD	Not recommended for use with std injection. Piper valve spings (Part no VSSFOC) must be used	3000-7500		272 deg	240 deg	.358" ^{9.09mm}	.304" 7.72mm	26 - 66 50 - 10	110 deg 110 de	,055" 1.39mm	.018" _{0.40mm}	.008" / .20mm .012" / .30mm
FOC16BP300	RALLY	Not recommended for use with std injection. Piper valve springs (Part no VSSFOC) must be used	3500-8200		288 deg	276 deg	.441" 11.19mm	.421" 10.68mm	40 - 68 64 - 32	104 deg 106 de	3.23mm	.095" 2.41mm	.008" / .20mm .010" / .25mm
FOC16BP320	RACE	Not recommended for use with std injection. Piper valve springs (Part no VSSFOC) must be used	3800-8500		288 deg	284 deg	.460" 11.69mm	.401" 10.19mm	42 - 66 64 - 40	102 deg 104 de	3.73mm	.108" 2.78mm	.010" / .25mm .012" / .30mm

FORD Ti-VCT 1.6 16v

				Ful	i lint data is	s achieved	with time	ng tool ir	istalled whe	en setting t	up camsna	art install	ation	
SIGVCTBP270	FAST ROAD	Suitable for 1.6 Ti-VCT 16V, Remapped Ecu &	2000-6700		256 deg	256 deg	.352"	.350"	_12 - 88	140 dea	121 deg	.003"	.009"	.008" / .20mm
	I AGT ROAD	exhaust recommended for best results.	2000-0700		200 deg	200 deg	8.94mm	8.89mm	69 - 7	140 deg	12 Tuey	0.08mm	0.23mm	.010" / .25mm
SIGVCTBP285	ULTIMATE ROAD	Suitable for 1.6 Ti-VCT 16V, Remapped Ecu &	2000-7200		268 deg	256 deg	.386"	.370"	_6 - 94	140 dea	121 dea	.003"	.012"	.008" / .20mm
316 VCT BF 203	OETIMATE ROAD	exhaust recommended for best results.	2000-7200		200 deg	250 deg	9.80mm	9.40mm	69 - 7	140 deg	1Z1 deg	0.08mm	0.30mm	.010" / .25mm

FORD FOCUS & MONDEO Mk2 1.8 / 2.0 16v (05/98 On) "BLACK TOP" with 27.5 mm dia biscuit shims

Valve lifts quoted assume a rocker ratio of 1:1

FOC20BP270	FAST ROAD	1800-7000	12 BHP	260 deg	248 deg	.372"	.345"	20 - 60	110 deg	110 deg	.045"	.024"	.010" / .25mm
1 OOLOBI 210		1000 1000		200 acg	2 10 deg	9.45mm	8.76mm	54 - 14	110 deg	110 dog	1.14mm	0.61mm	.012" / .30mm
FOC20BP285	ULTIMATE ROAD	2500-7500		264 deg	256 deg	.382"	.361"	24 - 60	108 deg	108 deg	.063"	.045"	.010" / .25mm
1002001200		2300-7300		204 deg	200 deg	9.71mm	9.18mm	56 - 20	100 deg	100 deg	1.60mm	1.14mm	.012" / .30mm
FOC20BP300	RALLY	2800-8000		280 deg	280 deg	.423"	.421"	36 - 64	104 deg	106 deg	.121"	.110"	.010" / .25mm
1002001 300		2000-0000		200 deg	200 deg	10.74mm	10.69mm	66 - 34	104 deg	100 deg	3.08mm	2.80mm	.012" / .30mm
FOC20BP320	RACE	3000-8500		288 deg	284 deg	.470"	.443"	40 - 68	104 deg	106 deg	.165"	.137"	.010" / .25mm
1 0020BF 320		3000-8300		200 deg	204 deg	11.94mm	11.25mm	68 - 36	104 deg	TOO deg	4.20mm	3.47mm	.012" / .30mm

FORD FOCUS 2.0 16v ST170 (NOT TO BE USED WITH THE VVT SYSTEM ACTIVATED)

Valve lifts quoted assume a rocker ratio of 1:1

FOCSTBP285	ULTIMATE ROAD		2500-7500	280 deg	264 deg	.425"	.380"	34 - 66	106 deg	106 deg	.101"	.069"	.010" / .25mm
				_00 abg	_0 . dog	10.80mm	9.66mm	58 - 26			2.57mm	1.75mm	.012" / .30mm
FOCSTBP300	RALLY	Use valve spring kit VSSST170	3000-8000	284 deg	272 deg	.450"	.413"	38 - 66	104 deg	104 deg	.122"	.086"	.010" / .25mm
1000101300			0000 0000	204 deg	ZIZ deg	11.44mm	10.50mm	60 - 32	10-r deg	10-rueg	3.10mm	2.18mm	.012" / .30mm

FORD FOCUS RS MK1

Valve lifts quoted assume a rocker ratio of 1:1

FOCRSBP2	0 FAST ROAD	1800-7000	18 BHP	260 deg	260 deg	.370"	.368"	20 - 60	110 dog	110 dea	.046"	.044"	.010" / .25mm
TOCKODI ZI		1000-7000	10 DHI	200 deg	200 deg	9.40mm	9.35mm	60 - 20	110 deg	TTO deg	1.16mm	1.11mm	.012" / .28mm

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDFOC - Pr focus 1.6 alloy vernier pulleys VSSFOC16 - Focus 1.6 single valve spring and cap set SC24 - Focus 1.6 steel valve spring retainers TBP31 - Focus 1.4 / Puma 1.7 comp cam belt PULDZETA - Pr Focus 2.0 & RS alloy vernier pulleys VSSZETA34 - Focus 2.0 & RS single valve spring kit SC11 - Focus 2.0 & RS spring retainers TBP30 - Focus 1.6/2.0 comp cam belt PULDST170 - Focus ST170 alloy vernier exh pulley VSSST170 - Focus ST170 single valve spring kit SC37 - Focus ST170 steel valve spring retainers

.

PIPER CAMS

CAMSHAFTS FORD DURATEC 1.8 / 2.0 / 2.3 16v / FIESTA ST150 / MONDEO Mk3 / 2005 FOCUS 2.0 16v

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

All profiles CNC ground to standard base circle size and designed for standard diameter tappets

Part No.	Application		Power Band	Power Increase	Dura Inl	ation Exh	Valve Ini	e Lift _{Exh}	Timing	Full Inl ATDC	-	Lift @ with cle Inl	e TDC earance Exh	Valve Clearance
DURBP270	FAST ROAD	Straight forward installation	1800-6800	12 BHP	260 deg	244 deg	.383" 9.73mm	.348" 8.84mm	17 - 63 48 - 17	113 deg	105 deg	.034" _{0.87mm}	.034" _{0.87mm}	.008" / .20mm .010" / .25mm
DUR1892		iper VSSDUR springs. These are the hottest profile that fitted without machining pistons.	2000-7200		276 deg	276 deg	.402"	.400" 10.16mm	30 - 66 66 - 30	108 deg	108 deg	.084" 2.13mm	.082" 2.08mm	.008" / .20mm .010" / .25mm
DURBP285	ULTIMATE ROAD	For use with throttle bodies. Piper single valve springs, VSSDUR, must be used	3000-7000		296 deg	288 deg	.460" 11.68mm	.420" 10.67mm	46 - 70 68 - 40	102 deg	104 deg	.154" 3.91mm	.116" 2.95mm	.010" / .25mm .012" / .28mm
DUR2170	NATIONAL HOT ROD	For use with throttle bodies. Piper double valve springs, VDSDUR, must be used	2500-7800		280 deg	272 deg	.492" 12.49mm	.450" 11.42mm	36 - 64 60 - 32	104 deg	104 deg	.152" 3.85mm	.126" 3.20mm	.008" / .20mm .010" / .25mm
DURBP300	RALLY	For use with throttle bodies. Piper double valve springs, VDSDUR, must be used	3000-8000		296 deg	288 deg	.490" 12.45mm	.458" 11.64mm	46 - 70 68 - 40	102 deg	104 deg	.165" 4.19mm	.130" 3.30mm	.010" / .25mm .012" / .28mm
DURBP320	RACE	For use with throttle bodies. Piper valve springs, VDSDUR, must be used	3500-8500		300 deg	288 deg	.517" 13.13mm	.485" 12.32mm	48 - 72 68 - 40	102 deg	104 deg	.206" 5.76mm	.150" ^{4.62mm}	.010" / .25mm .012" / .28mm

FORD FOCUS ST225 - 5 CYL

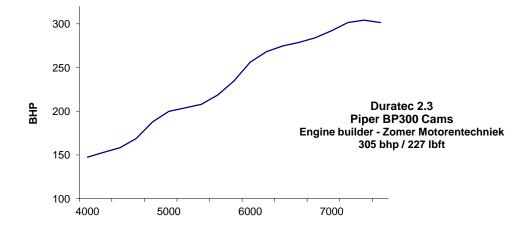
Valve lifts quoted assume a rocker ratio of 1:1

FOC225BP270 FAST ROAD

CAM KITS

FORD DURATEC 1.8 / 2.0 / 2.3 16v / FIESTA ST150 / MONDEO Mk3 / 2005 FOCUS 2.0 16v

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBDUR1892 / BP285	Х		VSSDUR			SC20B					Х
KBDUR2170 / BP300 / BP320	Х		VDSDUR	SSDUR	VSODUR	SC22					Х



ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSDUR - Duratec vernier kit VSSDUR - Duratec single valve spring and cap set VDSDUR - Duratec double valve spring, seat, seal and cap set VSODUR - Duratec oil seals SSDUR - Duratec spring seats SC20B - Duratec spring cap set VSSST225 - Focus ST225 single valve spring & cap set

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CAMSHAFTS HONDA CIVIC TYPE R 2.0 16v I-VTEC K20

Part No.	Application		Power Band	Power Increase	Dura Inl	ation Exh	Valv Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC	Lift @ with cle	TDC earance Exh	Valve Clearance
IVTECBP300	RALLY	For use with throttle bodies / supercharged	3800-9000		280 deg	300 deg	.355"	.355"		108 deg 108 deg	.035" _{0.89mm}	.025" _{0.64mm}	.010" / .25mm .012" / .30mm

JAGUAR 6 CYL 3.8/4.2

Valve lifts quoted	assume a rocker ratio of								*TRIBO	FINISH A	/AILABL	E ON ST	EEL BILLETS
JAG6BP255	MILD ROAD	1500-5800	8 BHP	264 deg	264 deg	.400"	.398"	22 - 62	110 deg	110 deg	.067"	.065"	.010" / .25mm
0.0002.200			0 5111	_0 : dog	10 . dog	10.17mm	10.12mm	62 - 22			1.68mm	1.63mm	.012" / .30mm
JAG6BP270	FAST ROAD	2000-6000	15 BHP	276 dog	276 deg	.423"	.421"	28 - 68	110 deg	110 deg	.076"	.074"	.008" / .20mm
3A00Di 270		2000-0000	15 DHI	270 deg	ZIO deg	10.67mm	10.62mm	68 - 28	TTO deg	TTO deg	1.93mm	1.88mm	.010" / .25mm
JAG6BP285	ULTIMATE ROAD	2500-6500	20 BHP	280 444	280 deg	.450"	.448"	30 - 70	110 deg	110 deg	.110"	.108"	.010" / .25mm
JAGOBF 20J	OLIMATE ROAD	2300-0300	20 DHF	280 deg 28	200 deg	11.43mm	11.38mm	70 - 30	TTO deg	TTO deg	2.79mm	2.74mm	.012" / .30mm
JAG6BP300	RALLY	2800-7000		280 deg 28	280 deg	.460"	.438"	32 - 68	108 deg	108 deg	.126"	.095"	.010" / .25mm
JAGOBE 300		2000-7000		200 deg	200 deg	11.68mm	11.13mm	68 - 32	100 deg	100 deg	3.20mm	2.41mm	.012" / .30mm
JAG6BP320	RACE	3000-7500		296 deg	296 deg	.470"	.468"	42 - 74	106 deg	108 deg	.156"	.143"	.010" / .25mm
JAGOBF 320		3000-7300		290 deg	290 deg	11.94mm	11.89mm	76 - 40	100 deg	100 deg	3.96mm	3.64mm	.012" / .30mm
JAG6BP330	ULTIMATE RACE	3500-8000		296 deg 2	292 deg	.520"	.480"	42 - 74	106 deg	106 deg	.195"	.162"	.010" / .25mm
JACODE 330		3300-8000		230 deg	Z J Z deg	13.21mm	12.20mm	72 - 40	100 deg	100 deg	4.96mm	4.12mm	.012" / .30mm

JAGUAR 12 CYL

Valve lifts quoted assume a rocker ratio of 1:1

JAG12BP255	MILD ROAD	1800-6000	20 BHP	264 deg	264 deg	.400"	.398"	22 - 62	110 deg	110 deg	.067"	.065"	.010" / .25mm
0A012D1 200		1000 0000	20 011	204 deg	204 deg	10.17mm	10.12mm	62 - 22	110 deg	TTO deg	1.68mm	1.63mm	.012" / .30mm
JAG12BP270	FAST ROAD	2200-7000	25 BHP	274 deg	274 deg	.420"	.418"	27 - 67	110 deg	110 deg	.092"	.090"	.008" / .20mm
JAG12DF270		2200-7000	25 DHF	214 deg	Z14 deg	10.67mm	10.62mm	67 - 27	TTO deg	TTO deg	2.33mm	2.28mm	.010" / .25mm
JAG12BP285	ULTIMATE ROAD	2500-7500		280 deg	280 deg	.450"	.448"	30 - 70	110 deg	110 deg	.110"	.108"	.010" / .25mm
JAG12BF20J		2300-7300		200 deg	200 deg	11.43mm	11.38mm	70 - 30	TTO deg	TTO deg	2.79mm	2.74mm	.012" / .30mm

JAGUAR 3.0 V6 (S type only) X type available but need to be used with PULSJV6 sprocket kit

Valve lifts quoted assume a rocker ratio of 1:1

JAGV6BP270	FAST ROAD			1500-6000	20 BHP	264 deg	272 dea	.376"	.374"	26 - 58	106 deg	108 deg	.060"	.062"	.010" / .25mm
3AG VODI 270	I AOT ROAD			1300-0000	20 011	204 deg	ZIZ deg	9.55mm	9.50mm	64 - 28	100 deg	100 deg	1.53mm	1.58mm	.012" / .30mm
	ULTIMATE ROAD	Use with FOLJV6 followers	Not suitable with	2000-7000		280 deg	272 dea	.444"	.428"	36 - 64	104 deg	106 deg	.110"	.080"	.011" / .28mm
JAGV6BP285 ULT	OLTIWATE ROAD	(shim under bucket type)	vvt	2000-7000		ZOU deg	ZIZ deg	11.28mm	10.87mm	62 - 30	104 deg	100 deg	2.80mm	2.04mm	.012" / .30mm
JAGV6BP300	RALLY	Use with FOLJV6 followers	Not suitable with	2500 7500		280 deg	280 deg	.463"	.442"	36 - 64	104 deg	106 deg	.140"	.102"	.008" / .20mm
JAG VODE 300		(shim under bucket type)	vvt	2300-7500		200 deg	200 deg	11.75mm	11.23mm	66 - 34	104 deg	i uu deg	3.55mm	2.58mm	.010" / .25mm

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSJV6- Jaguar V6 vernier kit FOLJV6 - Jaguar V6 followers (shim under) SC12 - Honda vtec 1.6 steel valve spring retainer set TBP32 - Honda vtec 1.6 competition cam belt PULDVTEC - Pr Honda vtec 1.6 alloy vernier pulleys VDSVTEC - Honda vtec 1.6 double valve spring set

(Please note on repro option profiles may vary from specs listed)



CAMSHAFTS LANCIA DELTA INTEGRALE 16v TURBO

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duratio	on Exh	Valve Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC	Lift @ with clea Inl		Valve Clearance
LANCTBP270	FAST ROAD	1500-6500	15 BHP	244 deg 23	30 deg	.368" 9.33mm	.342" 8.69mm	12 - 52 45 - 5	110 deg 110 deg	.026"	.006" 0.15mm	.016" / .40mm .016" / .40mm

LOTUS TWIN CAM 8v

Valve lifts quoted assume a rocker ratio of 1:1

LOTBP270	FAST ROAD	1500-6000	12 BHP	270 deg 270 deg	.352" .350" 8.94mm 8.89mm	25 - 65 65 - 25	110 deg 110 deg	.079" 2.00mm	.011	.008" / .20mm .010" / .25mm
LOTBP285	ULTIMATE ROAD	2000-7000	16 BHP	280 deg 280 deg	.384" .382" 9.75mm 9.70mm	30 - 70 70 - 30	110 deg 110 deg	.090" 2.28mm		.008" / .20mm .010" / .25mm
LOTBP300	RALLY	2500-7500		304 deg 304 deg	.402" .402" 10.21mm 10.21mm	46 - 78 81 - 43	106 deg 109 deg	.136" 3.45mm		.008" / .20mm .010" / .25mm
LOTBP320	RACE	3000-8000		324 deg 324 deg	.451" .449" 11.44mm 11.39mm	60 - 84 84 - 60	102 deg 102 deg	.201" 5.12mm		.008" / .20mm .010" / .25mm

LOTUS ELISE / EXIGE - SEE ROVER K SERIES OR TOYOTA VVT LI

MAZDA MX5 1.6/1.8 NON VVT B6ZE/BP

Valve lifts quoted assume a rocker ratio of 1:1

MAZMX16BP270H	FAST ROAD 1600cc	1500-6500	10 BHP	238 deg 256 deg	.336" .32 8.53mm 8.26r	110 deg 110 deg	28" HYDRAULIC
MAZMX18BP270H	FAST ROAD 1800cc	1500-6500	10 BHP	256 deg 256 deg	.350" .35 8.89mm 8.89r	110 deg 110 deg	33" HYDRAULIC

(Please note on repro option profiles may vary from specs listed)

PIPER CAMS

CAMSHAFTS MINI ONE / COOPER / COOPER S 2001 - 2006

Valve lifts quoted assume a rocker ratio of 1.645:1 Inlet / 1.4:1 Exhaust

Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valv Ini	re Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC		D TDC earance Exh	Valve Clearance
MINBP270	FAST ROAD	1500-6500	10 BHP	256 deg	248 deg	.360" 9.14mm	.350" 8.89mm	16 - 60 56 - 12	112 deg	N/A	N/A	HYDRAULIC
MINBP300	RALLY	3000-7500		284 deg	280 deg	.360" 9.14mm	.350" 8.89mm	31 - 73 71 - 29	111 deg	N/A	N/A	HYDRAULIC

CAMSHAFTS MITSUBISHI EVO 10 (01/03/2008on)

Valve lifts quoted assume a rocker ratio of 1:1 NOTE: FOR CUSTOM PROFILES PLEASE ENQUIRE Lift @ TDC Full Lift Valve clearance Duration @ 1mm Valve Lift Duration Profile Application Timing with clearance Ini ATDC Exh BTDC Inl Exh Inl Exh Inl Exh Inl Exh Inl Exh .374" .327" 20 - 60 .046" .005" .008" .012" STANDARD PROFILE MITS10STD 223 deg 193 deg 260 deg 232 deg 110 deg 110 deg 46 - 6 9.50mm 8.31mm 1.17mm 0.13mm 0.20mm 0.30mm 22 - 62 For use with standard valve springs (Maximum lift .400" .366" .010" .061" .016" .008" MITS10BP270 FAST ROAD 230 deg 207 deg 264 deg 240 dea 110 deg 110 deg achievable) 10.16mm 9.30mm 50 - 10 1.55mm 0.20mm 0.25mm 0.41mm Extra high lift profile. Only Piper valve springs (Part 24 - 64 .437" .394" .066" .046" .008" .010" ULTIMATE ROAD 223 deg MITS10BP285 232 dea 268 deg 240 dea 110 dea 110 deg no VSSMITS10) must be used. 50 - 10 11.10mm 10.00mm 1.68mm 1.17mm 0.20mm 0.25mm

CAM KITS MITSUBISHI EVO 10 CAM KITS INCLUDE :

Model	Part No.	Cams	Valve Springs	Followers	Spring Seats	Stem Seals	Spring Caps	Spra	Spray Bar		g Belt	Vernier Pulley	Timing Disc & Lube
EVO 10	KBMITS10285	Х	VSSMITS10				SC47						X

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSMITS10 - Mitsubishi Evo single valve spring and caps set SC47 - Mitsubishi Evo 10 steel valve spring retainer set

(Please note on repro option profiles may vary from specs listed)

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CAMSHAFTS MITSUBISHI EVO 1 - 9

Valve lifts quoted assume a rocker ratio of 1.724:1

Profile	Application		Duration Ini	e @ 1mm Exh	Dura	ation Exh	Valve Ini	e Lift Exh	Timing	Full Inl ATDC		-	D TDC earance Exh
BP255	FAST ROAD	Improvement over "MR" cams, for use with standard valve springs	218 deg	208 deg	272 deg	256 deg	.425" 10.80mm	.400" 10.16mm	28 - 64 55 - 21	108 deg	107 deg	.037" _{0.94mm}	.029" _{0.74mm}
BP270	FAST ROAD	Extra high lift profile. Only Piper valve springs (Part no VSSMITS) must be used.	210 deg	204 deg	264 deg	260 deg	.433" 11.00mm	.394" 10.00mm	24 - 60 57 - 23	108 deg	107 deg	.028" _{0.71mm}	.026" _{0.66mm}
BP285	ULTIMATE ROAD	Extra high lift profile. Only Piper valve springs (Part no VSSMITS) must be used.	217 deg	211 deg	265 deg	265 deg	.453" 11.50mm	.425" 10.80mm	24.5 - 60.5 60.5 - 24.5	108 deg	107 deg	.038" _{0.97mm}	.041" 1.04mm
BP300	RALLY	Extra high lift profile. Only Piper valve springs (Part no VSSMITS) must be used.	217 deg	217 deg	265 deg	265 deg	.453" 11.50mm	.453" 11.50mm	24.5 - 60.5 60.5 - 24.5	108 deg	107 deg	.038" _{0.97mm}	.041" 1.04mm
BP320	RACE	Extra high lift profile. Only Piper valve springs (Part no VSSMITS) must be used.	224 deg	224 deg	272 deg	272 deg	.472" 12.00mm	.472" 12.00mm	28 - 64 63 - 29	108 deg	107 deg	.050" 1.27mm	.053" 1.35mm
GPA	GROUP A	Extra high lift profile. Only Piper valve springs (Part no VSSMITS) must be used.	217 deg	212 deg	265 deg	267 deg	.453" 11.50mm	.378" 9.60mm	26.5 - 58.5 63 - 29	106 deg	108 deg	.045" 1.14mm	.038" _{0.96mm}

MECHANICAL PROFILES DESIGNED FOR COMPETITION APPLICATIONS ONLY

RACE	MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used	230 deg	230 deg	270 deg	270 deg	.453"	.453"	29 - 61 61 - 29	106 deg	106 deg	.074"	.074" 1.88mm
RACE	MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no	236 deg	236 deg	274 deg	274 deg	.453"	.453"	31 - 63	106 deg	106 deg	.085"	.085"
	MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no			074	074			<u>63 - 31</u> 31 - 63		Ŭ	-	2.16mm
RACE	VSSMITS) must be used	232 deg	232 deg	274 deg	274 deg	12.00mm	12.00mm	63 - 31	106 deg	106 deg	1.88mm	1.88mm
DRAG RACE		242 deg	242 deg	290 deg	290 deg	.472"	.472"	39 - 71	106 deg	106 deg	.096"	.096" 2.44mm
۲.	ACE	ACE VSSMITS) must be used ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used	ACE VSSMITS) must be used 230 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg RAG RACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 242 deg	ACE VSSMITS) must be used 230 deg 230 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg RAGE RACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no 242 deg 242 deg	ACE VSSMITS) must be used 230 deg 230 deg 230 deg 270 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg 236 deg 274 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 232 deg 274 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 242 deg 242 deg 242 deg 240 deg 240 deg	ACE VSSMITS) must be used 230 deg 230 deg 270 deg 270 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg 236 deg 274 deg 274 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 232 deg 274 deg 274 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 274 deg 274 deg 274 deg	ACE VSSMITS) must be used 230 deg 230 deg 270 deg 270 deg 11.50mm ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg 236 deg 274 deg 274 deg 453" 11.50mm ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 274 deg 274 deg 472" 12.00mm ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 274 deg 274 deg 472"	ACE VSSMITS) must be used 230 deg 230 deg 270 deg 270 deg 270 deg 11.50mm 11.50mm ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg 236 deg 274 deg 274 deg 453" .453" ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 274 deg 274 deg .472" .472" ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 274 deg 274 deg .472" .472" RAG RACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 242 deg 242 deg 290 deg 290 deg .472" .472"	ACE VSSMITS) must be used 230 deg 230 deg 270 deg 271 deg 272 deg 271 deg 271 deg	ACE VSSMITS) must be used 230 deg 230 deg 230 deg 270 deg 270 deg 270 deg 11.50mm 61 - 29 106 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg 236 deg 274 deg 274 deg 453" 453" 31 - 63 106 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 232 deg 274 deg 274 deg 472" 472" 31 - 63 106 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 232 deg 274 deg 274 deg 472" 472" 31 - 63 106 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 232 deg 274 deg 274 deg 472" 472" 31 - 63 106 deg RAG RACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no 242 deg 290 deg 290 deg 472" 472" 39 - 71 106 deg	ACE VSSMITS) must be used 230 deg 230 deg 270 deg 270 deg 270 deg 1.50m 61 - 29 106 deg 106 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg 236 deg 274 deg 274 deg .453" .453" 31 - 63 106 deg 106 deg 106 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 232 deg 274 deg .453" .453" 31 - 63 106 deg 106 deg 106 deg ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 274 deg 274 deg .472" .472" 31 - 63 (3 - 31) 106 deg 106 deg RAG RACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 242 deg 242 deg 290 deg .472" .472" 39 - 71 106 deg 106 deg	ACE VSSMITS) must be used 230 deg 230 deg 270 deg 270 deg 270 deg 270 deg 11.50m 61 - 29 106 deg 106 deg 106 deg 1.88mm ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 236 deg 236 deg 236 deg 274 deg 274 deg .453" .453" 31 - 63 106 deg 106 deg .085" 2.16mm ACE MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used 232 deg 232 deg 232 deg 274 deg .472" .472" 31 - 63 (

Camshaft	part	numbers:	

Model		Part number
Model	1st half	2nd half (Profile)
EVO 1-3	MITS1	BP255 or BP270 etc.
EVO 4-7	MITS	BP255 or BP270 etc.
EVO 8	MITS8	BP255 or BP270 etc.
EVO 9	MITS9	BP255 or BP270 etc.

CAM KITS MITSUBISHI EVO 1 - 9 CAM KITS INCLUDE :

Model	Part No.	Cams	Valve Springs	Followers	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Timing Belt	Vernier Pulley	Timing Disc & Lube
EVO 1-3	KBMITS1 270 / 285 / 300 /320 / GPA	X	VSSMITS				SC21			PULDMITS	Х
EVO 4-7	KBMITS 270 / 285 / 300 / 320 / GPA	X	VSSMITS				SC21			PULDMITS	Х
EVO 8	KBMITS8 270 / 285 / 300 / 320 / GPA	X	VSSMITS				SC21			PULDMITS	Х
EVO 9	KBMITS9 270 / 285 / 300 / 320 / GPA	X	VSSMITS				SC21			PULDMITS9	Х

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

MITSHLA - Mitsubishi HD hydraulic lifter set

VSSMITS - Mitsubishi Evo single valve spring and caps set SC21 - Mitsubishi Evo steel valve spring retainer set MITSADJM - MECHANICAL ADJUSTABLE LIFTER SET PULDMITS - Mitsubishi Evo alloy vernier pulleys PULDMITS9 - Mitsubishi Evo 9 alloy Exh vernier pulley

TBP34 - Mitsubishi Evo performance cam belt** ** NOTE : Fits 4/5/6/7/8 ONLY

CAMSHAFTS NISSAN ALMERA / PRIMERA 16v (NON ROLLER ROCKER ENGINES)

Valve lifts quoted assume a rocker ratio of 1.59:1

Part No.	Application	Power Band	Power Increase	Duratic Inl	on Exh	Valve Ini	Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC	Lift @ TD with clearan InI E	
NISBP270	FAST ROAD	1500-6800	12 BHP	262 deg 2	262 deg	.418" 10.62mm	.418" 10.62mm	21 - 61 61 - 21	110 deg 110 deg	N/A N	A HYDRAULIC
NISBP285	ULTIMATE ROAD Not recommended for use with std injection	2500-7500	20 BHP	268 deg 2	268 deg	.437" 11.10mm	.437" 11.1mm	24 - 64 64 - 24	110 deg 110 deg	N/A N	A HYDRAULIC

NISSAN ALMERA / PRIMERA 16v (ROLLER ROCKER ENGINES)

Valve lifts quoted assume a rocker ratio of 1.59:1

NISBP270R	FAST ROAD		1500-6800	12 BHP	258 deg	248 deg	.413" 10.49mm	.413" 10.49mm	19 - 59 54 - 14	110 deg	110 deg	N/A	N/A	HYDRAULIC
NISBP285R	ULTIMATE ROAD	Not recommended for use with std injection	2500-7500	20 BHP	270 deg	270 deg	.457" 11.61mm	.457" 11.61mm	25 - 65 65 - 25	110 deg	110 deg	N/A	N/A	HYDRAULIC

NISSAN MICRA 1.3 16v

Valve lifts quoted assume a rocker ratio of 1:1

NISMICBP270 FAST ROAD	1500-6800	8 BHP	248 deg	248 deg	.345"	.343"	14 - 54	110 deg	110 deg	.027"	.025"	.010" / .25mm
	1000 0000	0 DI II	240 deg		8.77mm	8.72mm	54 - 14	TTO deg	TTO deg	0.68mm	0.63mm	.012" / .30mm
	2500-7500	12 BHP	272 deg	272 deg	.357"	.355"	30 - 62	106 deg	106 deg	.071"	.069"	.010" / .25mm
	2500-7500		ZIZ deg	ZIZ deg	9.07mm	9.02mm	62 - 30	TUO deg	100 deg	1.80mm	1.75mm	.012" / .30mm

NISSAN SUNNY / PULSAR GTI R

Valve lifts quoted assume a rocker ratio of 1.59:1

NGTIRBP270	FAST ROAD	2000-7200	15 BHP	260 deg	260 deg	.438" 11.13mm	.438" 11.13mm	20 - 60 60 - 20	110 deg	110 deg	N/A	N/A	.010" / .25mm .012" / .30mm
NGTIRBP285	ULTIMATE ROAD	2600-7800	20 BHP+	278 deg	278 deg	.436" 11.13mm	.434" 11.13mm	33 - 65 65 - 33	106 deg	106 deg	N/A	N/A	.008" / .20mm .010" / .25mm

NISSAN SKYLINE R32 GTR

Valve lifts quoted assume a rocker ratio of 1:1

NSKYBP270H	FAST ROAD	1800-7000	20 BHP+	256 deg	256 deg	.325" ^{8.26mm}	.325" 8.26mm	18 - 58 58 - 18	110 deg	110 deg	.028" ^{0.70mm}	.028" ^{0.70mm}	HYDRAULIC
NSKYBP285M	ULTIMATE ROAD	2300-7600	30 BHP+	264deg	264deg	.344" 8.73mm	.342" 8.68mm	24 - 60 60 - 24	108 deg	108 deg	.058" 1.48mm	.056" 1.43mm	.008" / .20mm .010" / .25mm

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSSR20 - Nissan GTiR / Almera & Primera vernier sprockets (Please note on repro option profiles may vary from specs listed) PAGE 24

CAMSHAFTS PEUGEOT 205 / CITROEN AX 1360cc 'ALLOY BLOCK'

Valve lifts quoted assume a rocker ratio of 1.4:1 - Rocker ratio varies with base circle size. Therefore competition cams may produce more lift than quoted

No.1	Jounal	size:	1.671"	/ 42.	44mm

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PIPER CAMS

Part No.	Application	Power Band	Power Increase	Dura Ini	ation _{Exh}	Valve Inl	e Lift _{Exh}	Timing	Full Lift Inl ATDC Exh BTDC		TDC earance Exh	Valve Clearance
P13BP270	FAST ROAD	2000-6500	10 BHP	268 deg	268 deg	.340" ^{8.64mm}	.340" ^{8.64mm}	25 - 63 63 - 25	109 deg	N/A	N/A	.010" / .25mm .010" / .25mm
P13BP285	ULTIMATE ROAD	2500-7000	14 BHP	284 deg	284 deg	.380" _{9.65mm}	.380" _{9.65mm}	35 - 69 69 - 35	107 deg	N/A	N/A	.014" / .35mm .014" / .35mm
P13BP300	RALLY	3000-7500		300 deg	300 deg	.400" 10.16mm	.400" 10.16mm	45 - 75 75 - 45	105 deg	N/A	N/A	.010" / .25mm .010" / .25mm
P13BP320	RACE	4000-8000		310 deg	310 deg	.410" 10.42mm	.410" 10.42mm	50 - 80 80 - 50	105 deg	N/A	N/A	.010" / .25mm .010" / .25mm
P13660	1400 STOCK ROD	3500-8000		306 deg	306 deg	.380" 9.65mm	.380" _{9.65mm}	49 - 77 77 - 49	104 deg	N/A	N/A	.008" / .20mm .010" / .25mm
P13GPA1	GROUP A RACE	2500-7000		304 deg	304 deg	.410"	.410" 10.42mm	48 - 76 76 - 48	104 deg	N/A	N/A	.010" / .25mm .010" / .25mm

PEUGEOT 106/306 1.4 XSi 91-97 'IRON BLOCK'

Valve lifts quoted assume a rocker ratio of 1.4:1 - Rocker ratio varies with base circle size. Therefore competition cams may produce more lift than quoted

P14BP270	FAST ROAD	1500-6500	10 BHP	260 deg	260 deg	.350" 8.89mm	.350" ^{8.89mm}	21 - 59 59 - 21	109 deg	N/A	N/A	.008" / .20mm .010" / .25mm
P14BP270RAL	FAST ROAD Suit 106 1.6 Rallye	2000-7000	12 BHP	284 deg	284 deg	.395" 10.03mm	.395" 10.03mm	34 - 70 70 - 34	108 deg	N/A	N/A	.011" / .28mm .013" / .33mm
P14BP285	ULTIMATE ROAD Not recommended for use with std injection	2500-7000	14 BHP	284 deg	284 deg	.380" ^{9.65mm}	.380" _{9.65mm}	35 - 69 69 - 35	107 deg	N/A	N/A	.014" / .35mm .014" / .35mm
P14BP300	RALLY	3000-7500		300 deg	300 deg	.400" 10.16mm	.400" 10.16mm	45 - 75 75 - 45	105 deg	N/A	N/A	.010" / .25mm .010" / .25mm
P14BP320	RACE	4000-8000		310 deg	310 deg	.410" 10.42mm	.410" 10.42mm	50 - 80 80 - 50	105 deg	N/A	N/A	.010" / .25mm .010" / .25mm

CAM KITS PEUGEOT 205 / CITROEN AX 1360cc (ALLOY BLOCK) INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBP13270 / 285	Х	FOLP13	VSSP13								Х
KBP13300 / 320 / GPA1	X	FOLP13	VSSP13								Х

PEUGEOT 106 / 306 8v (IRON BLOCK) INCLUDE:

KBP14270 / 285 / 300 / 320 X FOLP13 VSSP13	X
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSP13 - Peugeot 1360 single valve springs FOLP13 - Peugeot 1360 cam followers PULD205 - Peugeot 1360 alloy vernier pulley TBP11 - Peugeot 205 1360 competition cam belt TBP12 - Peugeot Xsi 1.4 & 306 1.6 competition cam belt

CAMSHAFTS PEUGEOT 106 / 306 1.3 (Rallye) / 1.4 / 1.6 & CITROEN SAXO VTR NON-ROLLER 94 - 97

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No.1 Jounal size	: 1.738" / 42.44mm

Valve lifts quoted a	assume a rocker ratio of	1.4:1	'BLACK	ROCKER	COVER	R'				No	o.1 Jouna	'38" / 42.44mm	
Part No.	Application		Power Band	Power Increase	Dura Ini	ation Exh	Valve Lift Inl Exh		Timing	Full Lift InI ATDC Exh BTDC	Lift @ TDC with clearance Inl Exh		Valve Clearance
VTRBP270	FAST ROAD		1500-6500	10 BHP	260 deg	260 deg	.350" ^{8.89mm}	.350" ^{8.89mm}	21 - 59 59 - 21	109 deg	N/A	N/A	.008" / .20mm .010" / .25mm
VTRBP270RAL	FAST ROAD	Suit 106 1.3 Rallye	2000-7000	12 BHP	284 deg	284 deg	.395" 10.03mm	.395" 10.03mm	34 - 70 70 - 34	108 deg	N/A	N/A	.011" / .28mm .013" / .33mm
VTRBP285	ULTIMATE ROAD	Not recommended for use with std injection	2000-6800	14 BHP	280 deg	280 deg	.400" 10.16mm	.400" 10.16mm	32 - 68 68 - 32	108 deg	N/A	N/A	.008" / .20mm .010" / .25mm

PEUGEOT 106 / 206 / 306 & CITROEN SAXO 1.4 & 1.6 VTR ROLLER ROCKER 97 - ON

Valve lifts quoted	assume a rocker ratio of	f 1.75:1	'GREY R	OCKER	COVER								
VTRBP270R	FAST ROAD		1500-6500	10 BHP	258 deg	258 deg	.422"	.422"	15 - 63	114 deg	N/A	N/A	.008" / .20mm
	TAGTINGAD	ASTROAD		10 DHI	200 deg	200 deg	10.71mm	10.71mm	63 - 15	TT+ deg	IN/A	N/A	.010" / .25mm
VTRBP285R	ULTIMATE ROAD	Not recommended for use with std injection	2000-7000	14 BHP	264 deg	264 deg	.422"	.422"	22 - 62	110 deg	N/A	N/A	.008" / .20mm
V TADE ZOJA	P265R OLTIMATE ROAD Not recommended for use with sta injection	2000-7000		204 deg 204 deg		10.71mm	10.71mm	62 - 22	I TO deg	IN/A	IN/A	.010" / .25mm	

PEUGEOT 106 GTI & CITROEN SAXO VTS 1.6 16V

Valve lifts quoted assume a rocker ratio of 1:1

SAX16BP270H	FAST ROAD	Air filter, exhaust, flowed head achieves over 150 bhp	2000-7000	15 BHP	260 deg	260 deg	.380" 9.65mm	.380" _{9.65mm}	20 - 60 60 - 20	110 deg	110 deg	.035" _{0.90mm}	.035" _{0.90mm}	HYDRAULIC
SAX16BP270T	FAST ROAD	For use in a turbo application,Blank only	2000-7000		248 deg	260 deg	.366" 9.30mm	.367" ^{9.33mm}	12 - 56 62 - 18	112 deg	112 deg	.029" _{0.74mm}	.033" _{0.83mm}	HYDRAULIC
SAX16BP270TR	FAST ROAD	For use in a turbo application Reprofiled spec only	2000-7000		256 deg	256 deg	.350" ^{8.89mm}	.350" ^{8.89mm}	18 - 58 58 - 18	110 deg	110 deg	.033" _{0.84mm}	.033" _{0.84mm}	HYDRAULIC
SAX16BP270S	FAST ROAD	For use in a supercharged application	2000-7000		260 deg	264 deg	.380" 9.65mm	.378" _{9.60mm}	20 - 60 62 - 22	110 deg	110 deg	.035" _{0.89mm}	.057" 1.47mm	HYDRAULIC
SAX16BP285H	ULTIMATE ROAD	Not recommended for use with std injection. Throttle bodies, flowed head, manifold achieves over 180 bhp	3000-7500	20 BHP	264 deg	260 deg	.400" 10.16mm	.380" _{9.65mm}	22 - 62 64 - 16	110 deg	114 deg	.058" 1.47mm	.016" _{0.40mm}	HYDRAULIC
SAX16BP300H	RALLY	Piper valve springs 'VDSVTS' must be used	3500-8000		274 deg	274 deg	.430" 10.93mm	.430" 10.93mm	33 - 61 63 - 31	104 deg	106 deg	.107" 2.73mm	.096" 2.43mm	HYDRAULIC
SAX16BP300	RALLY	Piper valve springs 'VDSVTS' must be used	3600-8000		284 deg	284 deg	.450" 11.44mm	.448" 11.39mm	36 - 68 68 - 36	106 deg	106 deg	.112" 2.84mm	.110" 2.79mm	.010" / .25mm .012" / .30mm
SAX16BP320	RACE	Oversized followers required (Part No FOLVTSM31) must be used	4200-8500		292 deg	292 deg	.481" 12.21mm	.479" 12.16mm	42 - 70 70 - 42	104 deg	104 deg	.169" ^{4.29mm}	.167" ^{4.24mm}	.010" / .25mm .012" / .30mm

CAM KITS

PEUGEOT 106 / 306 1.3 (Rallye) / 1.4 / 1.6 & CITROEN SAXO VTR NON-ROLLER 94 - 97 INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBVTR270	Х	FOLP13									Х
KBVTR285	Х	FOLP13	VSSVTR2								X

PEUGEOT 106 GTI & CITROEN SAXO VTS 1.6 16V INCLUDE:

KBSAX16270 / 270T / 285H	Х	FOLVTSH						Х
KBSAX16300H	Х	FOLVTSH	VDSVTS		SC18			Х
KBSAX16300M	Х	FOLVTSM	VDSVTS		SC18			Х

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDVTR - Saxo VTR (40 tooth) alloy vernier pulley PULDVTS - Pair Saxo VTS alloy vernier pulley TBP39 - Saxo VTS 1.6 16v cam belt

VSSVTR - Saxo VTR (roller type) single valve spring set VSSVTR2 - Saxo VTR (non-roller type) single valve spring set VDSVTS - Saxo VTS double valve spring kit

FOLP13 - VTR non roller follower set FOLVTSH - Saxo VTS hydraulic follower set FOLVTSM - Saxo VTS solid follower set FOLVTSM31 - Saxo VTS 31mm solid follower set

CAMSHAFTS PEUGEOT 205 / 309 GTI 1600 / 1900



Valve lifts quoted assume a rocker ratio of 1:1

NOTE: Our cams have both the thrust groove & thrust shoulders, we recommend the shoulder type only for competition applications.

Part No.	Application		Power Band	Power Increase	Dura	ation Exh	Valve Inl	e Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC		TDC earance Exh	Valve Clearance
P16BP270	FAST ROAD	Skim .028" from head & fit this cam to produce 120bhp @ the wheels instantly	2000-6500	20 BHP	272 deg	272 deg	.462" 11.73mm	.460" 11.68mm	28 - 64 64 - 28	108 deg	.062" 1.57mm	.060" 1.52mm	.008" / .20mm .010" / .25mm
P16BP285	ULTIMATE ROAD	Not recommended for use with std injection. Phenominal power when used with 2 x 45 dcoe's	2500-7000	30 BHP	284 deg	284 deg	.462" 11.73mm	.460" 11.68mm	36 - 68 68 - 36	106 deg	.109" 2.77mm	.107" 2.72mm	.008" / .20mm .010" / .25mm
P16BP300	RALLY		2800-7500		304 deg	304 deg	.480" 12.19mm	.480" 12.19mm	46 - 78 78 - 46	106 deg	.175" 4.45mm	.173" ^{4.39mm}	.008" / .20mm .010" / .25mm
P16BP320	RACE	1600 Race camshaft	4000-8500		308 deg	308 deg	.528" 13.41mm	.526" 13.36mm	50 - 78 78 - 50	104 deg	.190" 4.83mm	.188" 4.78mm	.011" / .28mm .013" / .32mm
P16GPA2	GROUP A RALLY		3000-7600		308 deg	308 deg	.490" 12.45mm	.490" 12.45mm	50 - 78 78 - 50	104 deg	.186" 4.72mm	.184" ^{4.67mm}	.008" / .20mm .010" / .25mm
P16727	HOT HATCH RACE	Championship winning power. When std plenum chamber must be used	3000-7500		292 deg	292 deg	.512" 13.00mm	.512" 13.00mm	42 - 70 70 - 42	104 deg	.179" 4.54mm	.177" 4.49mm	.010" / .25mm .012" / .30mm
P16528	HOT ROD RACE	The ultimate power in 1900 engines	4000-8500		328 deg	328 deg	.552" 14.02mm	.552" 14.02mm	62 - 86 90 - 58	102 deg	.227" 5.76mm	.225" 5.71mm	.010" / .25mm .012" / .30mm

PEUGEOT MI16 /S16 & CITROEN BX / XANTIA 16v

Valve lifts quoted assume a rocker ratio of 1:1

P16VBP270	FAST ROAD		1500-6500	10 BHP	264 deg	264 deg	.390" _{9.91mm}	.390" _{9.91mm}	22 - 62 62 - 22	110 deg	110 deg	.049" 1.24mm	.049" 1.24mm	HYDRAULIC
P16VBP285H	ULTIMATE ROAD	Piper valve springs (Part no VDSMI16) must be used	2500-7500		274 deg	274 deg	.430" 10 a2mm	.430" 10.92mm	31 - 63 65 - 29	106 deg	108 deg	.098" 2.48mm	.088" 2.23mm	HYDRAULIC
P16VBP285	ULTIMATE ROAD	Piper valve springs (Part no VDSMI16) must be used	2500-7500		280 deg	280 deg	.435" 11.05mm	.435" 11.05mm	34 - 66 68 - 32	106 deg	108 deg	.108" 2.75mm	.096" 2.44mm	.010" / .25mm .012" / .30mm
P16VBP300	RALLY	Piper valve springs (Part no VDSMI16) must be used	3000-8000		290 deg	290 deg	.455" 11.57mm	.455" 11.57mm	39 - 71 71 - 39	106 deg	106 deg	.140" 3.61mm	.142" 3.56mm	.010" / .25mm .010" / .25mm
P16VBP320	RACE	Piper valve springs (Part no VDSMI16) must be used	4000-8500		300 deg	300 deg	.480" 12.19mm	.480" 12.19mm	46 - 74 76 - 44	104 deg	106 deg	.192" ^{4.88mm}	.180" 4.58mm	.008" / .20mm .010" / .25mm
P16VGPA	GROUP A RALLY	Piper valve springs (Part no VDSMI16) must be used	2800-7800		282 deg	282 deg	.448" 11.38mm	.419" 10.60mm	35 - 67 67 - 35	106 deg	106 deg	.144" 3.66m	.110" 2.80mm	.008" / .20mm .010" / .25mm

CAM KITS PEUGEOT 205 / 309 GTI 1600 / 1900 INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBP16270 / 285	Х	FOLP16									X

PEUGEOT MI16/S16 16v INCLUDE:

KBP16V270 X	FOLMI16H		X
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

TBP13 - Peugeot Gti 1.6/1.9 >92 competition cam belt

TBP14 - Peugeot Gti 1.6/1.9 92-on competition cam belt

TBP15 - Peugeot 1.9 MI16 competition cam belt

(Please note on repro option profiles may vary from specs listed)

PULD205 - Peugeot alloy vernier pulley PULDMI16 - Peugeot MI16 vernier pulleys VDSMI16 - Peugeot MI16 / S16 double valve spring kit VDSP16 - Peugeot 1.6/1.9 Race double springs FOLP16 - Peugeot 1.6/1.9 cam followers FOLMI16M - Peugeot MI16 / S16 comp.solid cam followers FOLMI16H - Peugeot MI16 / S16 hydraulic cam followers

CAMSHAFTS PEUGEOT 306 XSI 2.0 8v

Valve lifts quoted assume a rocker ratio of 1:1

PIPER CAMS

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Many other profiles are available. Ask for details

Part No.	Application	Power Band	Power Increase		ation Exh	Valv Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		TDC earance Exh	Valve Clearance
PXSIBP270	FAST ROAD	1500-6500	8 BHP	252 deg	256 deg	.425"	.434"	16 - 56	110 deg 110 deg	.044"	.054"	.015" / .38mm
1 XOLET 210	AST KOAD	1000-0000	0 BHP	LOL deg	200 deg	10.80mm	11.02mm	58 - 18	110 deg 110 deg	1.12mm	1.36mm	.017" / .43mm

PEUGEOT 306 GTI 6 16v

Valve lifts quoted assume a rocker ratio of 1:1

GTI6BP270H	FAST ROAD		1500-6500	10 BHP	256 deg	256 deg	.417" 10.59mm	.417" 10.59mm	18 - 58 58 - 18	110 deg	110 deg	.043" 1.09mm	.043" 1.09mm	HYDRAULIC
GTI6BP285H	ULTIMATE ROAD	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	2000-7500		264 deg	264 deg	.428" 10.87mm	.428" 10.87mm	24 - 60 62 - 22	108 deg	110 deg	.072" 1.82mm	.063" 1.60mm	HYDRAULIC
GTI6BP285	ULTIMATE ROAD	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	2500-7800		280 deg	280 deg	.435" 11.05mm	.435" 11.05mm	34 - 66 68 - 32	106 deg	108 deg	.107" 2.72mm	.095" 2.41mm	.010" / .25mm .012" / .30mm
GTI6BP300	RALLY	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	3000-8000		290 deg	290 deg	.455" 11.57mm	.455" 11.57mm	39 - 71 71 - 39	106 deg	106 deg	.140" 3.56mm	.138" 3.51mm	.010" / .25mm .010" / .25mm
GTI6BP320	RACE	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	4500-8500		300 deg	300 deg	.480" 12.19mm	.480" 12.19mm	46 - 74 76 - 44	104 deg	106 deg	.182" ^{4.62mm}	.180" 4.57mm	.008" / .20mm .010" / .25mm

PEUGEOT 206 2.0 16v GTI (130 bhp)

Valve lifts quoted assume a rocker ratio of 1:1

GTI2BP270R	FAST ROAD		1500-6500	12 BHP	248 deg	244 deg	.365" 9.27mm	.342" 8.69mm	14 - 54 52 - 12	110 deg	110 deg	.034" _{0.85mm}	.022" _{0.55mm}	HYDRAULIC
GTI2BP270	FAST ROAD	Inlet cam only	1500-6500	15 BHP	260 deg	N/A	.380" 9.65mm	N/A	22 - 58	108 deg	N/A	.068" 1.72mm	N/A	HYDRAULIC
GTI2BP285	ULTIMATE ROAD	Not recommended for use with std injection. Piper valve springs (Part No VSSP206) must be used	2000-7500		274 deg	274 deg	.430" 10.92mm	.430" 10.93mm	31 - 63 63 - 31	106 deg	106 deg	.098" 2.49mm	.098" 2.49mm	HYDRAULIC
GTI2BP300	RALLY	Not recommended for use with std injection. Piper valve springs (Part No VSSP206) must be used	3000-8000		296 deg	288 deg	.459" 11.66mm	.419" 10.65mm	42 - 74 70 - 38	106 deg	106 deg	.136" _{3.45mm}	.108" 2.74mm	.010" / .25mm .012" / .30mm
GTI2BP320	RACE	Not recommended for use with std injection. Piper valve springs (Part No VSSP206) must be used	4000-9000		300 deg	296 deg	.472" 11.99mm	.460" 11.68mm	48 - 72 72 - 44	102 deg	104 deg	.161" ^{4.09mm}	.143" 3.63mm	.008" / .20mm .010" / .25mm

CAM KITS PEUGEOT 306 GTI 6 16v INCLUDE:

Part No.	Cams	Followers	Hydraulic Adjusters	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBPGTI6270	Х	FOLGTI6H										X

PEUGEOT 206 2.0 16v GTI INCLUDE:

KBPGTI2270R	Х	FOLGTI6H					Х
KBPGTI2270 *	Х	FOLGTI6H					Х

* = Note this kit includes inlet cam & followers only

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLGTI6M - 306 GTI6 comp.solid cam followers VDSP306 - 306 GTI6 double valve springs kit PULDXSI - Peugeot 2.0 8v vernier pulley TBP14 - Peugeot 2.0 8v XSi cam belt TBP28 - Peugeot S16 '96-on / GTI 6 competition cam belt FOLGTI6H - 306 GTI6 hydraulic cam followers PULDGTI6 - Pr 306 GTI6 vernier pulleys (for competition use) TBP28 - Peugeot S16 '96-on / GTI 6 competition cam belt SC14 - 306 GTI6 steel valve spring retainers

CAMSHAFTS PEUGEOT 306 TURBO DIESEL

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration Inl Exh	Valv Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		TDC Earance Exh	Valve Clearance
PEUGTDBP270	FAST ROAD	1500-6500	15 BHP	236 deg 244 deg	.350"	.365"	6 - 50	112 deg	.022"	.027"	.016" / .40mm
I LOOIDDI 2/0		1000 0000		230 deg 244 deg	8.90mm	9.26mm	54 - 10	TIZ deg	0.56mm	0.68mm	.019" / .47mm

PEUGEOT 206 / 306 2.0 HDI

Valve lift quoted assumes a rocker ratio of 1.7:1

PHDIBP270	FAST ROAD	1500-6500	8 BHP	236 deg 255 deg	.342" 8 69mm	.355" 9.02mm	8 - 48 58 - 18	110 deg	110 deg	N/A	N/A	HYDRAULIC
PHDIBP285	ULTIMATE ROAD	1500-6500	12 BHP	258 deg 256 deg	.365" 9.26mm	.383" 9.73mm	19 - 59 58 - 18	110 deg	110 deg	N/A	N/A	HYDRAULIC

PORSCHE 924

Valve lifts quoted assume a rocker ratio of 1:1

PORBP270	FAST ROAD	1500-6200	8 BHP	278 deg 278 deg	.462" 11.72mm	.460" 11.67mm	29 - 69 69 - 29	110 deg	.088" 2.24mm	.060" 1.52mm	.008" / .20mm .010" / .25mm
PORBP285	ULTIMATE ROAD	2000-7000	12 BHP	284 deg 284 deg	.462" 11.72mm	.460" 11.67mm	34 - 70 70 - 34	108 deg	.100" 2.54mm	.098" 2.49mm	.008" / .20mm .010" / .25mm

RENAULT 5 TURBO

Valve lifts quoted assume a rocker ratio of 1.5:1

R5TBP270	FAST ROAD		2000-6000	15 BHP	260 deg 260 deg	.342"	.342"	20 - 60	110 deg	.026"	.024"	.010" / .25mm
	I AOT NOAD		2000 0000		200 deg 200 deg	8.68mm	8.68mm	60 - 20	TTO deg	0.66mm	0.60mm	.012" / .30mm
R5TBP285	ULTIMATE ROAD	Piper valve springs Part no.VSSR5 must be used	2500-6500	20 BHP	270 deg 270 deg	.392"	.390"	23 - 67	112 deg	.037"	.035"	.010" / .25mm
10101200	OF THIRATE ROAD		2000 0000	20 011		9.95mm	9.90mm	67 - 23	TTZ deg	0.94mm	0.89mm	.012" / .30mm
R5TBP300	RALLY	Piper valve springs Part no.VSSR5 must be used	2500-6500	20 BHP	276 deg 276 deg	.362"	.360"	26 - 70	112 deg	.068"	.062"	.008" / .20mm
KUTDI 300	NALET		2300-0300	20 011	210 deg 210 deg	9.19mm	9.14mm	71 - 25	TTZ deg	1.73mm	1.57mm	.010" / .25mm

RENAULT CLIO 2.0 16v 172 / 182 / CUP

Valve lifts quoted assume a rocker ration of 1.72:1

R172BP270 FAST ROAD	1800-7000	10 BHP	278 deg 270 deg	.405" 10.28mm	.373" ^{9.47mm}	29 - 69 65 - 25	110 deg 110 deg	N/A I	N/A	HYDRAULIC
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CAM KITS RENAULT 5 TURBO INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBR5T270 / 285	Х		VSSR5							PULSR5	X

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSR5 - Renault 5 Turbo vernier pulley VSSR5 - Renault 5 Turbo valve spring set PULDPOR - Porsche 924 vernier pulley FOLPOR - Porsche 924 lightweight cam followers PULD306TD - Peugeot 306 TD vernier pulley SC27 - 206 GTI steel valve spring retainer SC28 - 206 GTI steel valve spring retainer (solid follower) VSS206A - 206 GTI single valve spring & retainer set VSS206B - 206 GTI single valve spring & retainer set (solid followers)

CAMSHAFTS RENAULT CLIO 1.8 16v & WILLIAMS 2.0 16v



PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application		Power Band	Power Increase	Dura Ini	ation _{Exh}	Valve Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		D TDC earance Exh	Valve Clearance
R16VBP270H	FAST ROAD	Vernier pulleys recommended	1800-6800	12 BHP	264 deg	256 deg	.390" 9.90mm	.362" 9.20mm	22 - 62 58 - 18	110 deg 110 deg	.050" 1.27mm	.034" ^{0.86mm}	HYDRAULIC
RW16VBP270H	WILLIAMS FAST ROAD	Vernier pulleys recommended	1800-6800	12 BHP	264 deg	256 deg	.407" 10.34mm	.390" _{9.90mm}	22 - 62 58 - 18	110 deg 110 deg	.076" 1.93mm	.058" 1.47mm	HYDRAULIC
R16VBP285H	ULTIMATE ROAD	Vernier pulleys recommended	2500-7300	18 BHP	268 deg	268 deg	.438" 11.13mm	.438" 11.13mm	28 - 60 60 - 28	106 deg 106 deg	.087" ^{2.21mm}	.087" 2.21mm	HYDRAULIC
R16VBP300M	RALLY	Mechanical	3000-8000		290 deg	290 deg	.455" 11.57mm	.455" 11.57mm	39 - 71 71 - 39	106 deg 106 deg	.140" 3.56mm	.138" 3.51mm	.010" / .25mm .010" / .25mm
R16VBP320M	RACE	Mechanical	4000-8300		300 deg	300 deg	.480" 12.19mm	.480" 12.19mm	46 - 74 76 - 44	104 deg 106 deg	.192" ^{4.88mm}	.180" 4.57mm	.008" / .20mm .010" / .25mm

ROVER K SERIES V6 2.5 KV6

Valve lifts quoted assume a rocker ratio of 1:1

ARKV6BP270H	FAST ROAD		1500-6500	20 BHP	260 deg	260 deg	.380" 9.65mm	.380" 9.65mm	20 - 60 64 - 16	110 deg	114 deg	.035" _{0.89mm}	.016" 0.41mm	HYDRAULIC
ARKV6BP285H	ULTIMATE ROAD	Not recommended for use with std injection.	2000-6800		274 deg	274 deg	.430" 10.92mm	.430" 10.92mm	33 - 61 63 - 31	104 deg	106 deg	105"	.0100" 2.54mm	HYDRAULIC
ARKV6BP285M	ULTIMATE ROAD	Not recommended for use with std injection.	2000-68000		276 deg	276 deg	.440" 11.18mm	.438" 11.13mm	34 - 62 64 - 32	104 deg	106 deg	.110" 2.80mm	.098" 2.48mm	.008" / .20mm .010" / .25mm

ROVER T SERIES 2.0 16v

Valve lifts quoted assume a rocker ratio of 1:1

ARTBP270H	FAST ROAD	10 BHP	248 deg	248 deg	.348" ^{8.84mm}	.348" ^{8.84mm}	14 - 54 54 - 14	110 deg 110 deg	.045" 1.14mm	.045" 1.14mm	HYDRAULIC
ARTBP285M	ULTIMATE ROAD Not recommended for use with std injection.	15 BHP	260 deg	260 deg	.384" 9.75mm	.384" 9.75mm	22 - 58 58 - 22	108 deg 108 deg	.059" 1.50mm	.057" 1.45mm	.008" / .20mm .010" / .25mm
ARTBP270HT	FAST ROAD TURBO	16 BHP	240 deg	240 deg	.346" 8.79mm	.346" 8.79mm	10 - 50 50 - 10	110 deg 110 deg	.017" _{0.43mm}	.017" _{0.43mm}	HYDRAULIC
ARTBP285MT	ULTIMATE ROAD TURBO	20 BHP+	260 deg	260 deg	.384" ^{9.75mm}	.384" ^{9.75mm}	20 - 60 60 - 20	110 deg 110 deg	.049" 1.24mm	.047" 1.19mm	.008" / .20mm .010" / .25mm

CAM KITS RENAULT CLIO / 19 16v & WILLIAMS 2.0 16v INCLUDE:

Part No.	Cams	Followers	Hydraulic Adjusters	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBR16V270H	Х	FOLCLIOH										X
KBRW16V270H	Х	FOLCLIOH										X
KBR16V285H	Х	FOLCLIOH										X

ROVER K SERIES V6 2.5 KV6 INCLUDE:

KBARKV6270	X	FOLKV6H									Х
ADDITIONAL CON	ADDITIONAL COMPONENTS FOR ABOVE ENGINES: PULDCLIO - Pr clio 16v alloy vernier pulley							FOLKV6	H - KV6 hydrauli	c cam follo	ower set
PULDT - Pr T-Serie	es alloy vernier p		TBP16 - Clio 16	v competition cam belt			VSSKV6	- Uprated single	e valve spri	ng set	
FOLTH - T series h	FOLTH - T series hydraulic cam follower set			FOLCLIOH - Cli	io 16v hydraulic cam fol	owers		VDSKV6	- Uprated doubl	e valve spi	ring set
FOLTM - T series s	OLTM - T series solid cam follower & shim set £280				io 16v comp.solid cam f	ollowers	(Please	note on repro optio	n profiles may	vary from	specs listed)

CAMSHAFTS ROVER K SERIES 16v

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles are available. Ask for details

Part No.	Application		Power Band	Power Increase	Dura	ation Exh	Valve	e Lift Exh	Timing		Exh BTDC		D TDC earance Exh	Valve Clearance
ARKBP255H	FAST ROAD	Designed for use in 1400 engine.Vernier pulleys advised.	2000-7000	10 BHP	248 deg	248 deg	.348" ^{8.84mm}	.348" ^{8.84mm}	14 - 54 54 - 14	110 deg	110 deg	.045" 1.14mm	.045" 1.14mm	HYDRAULIC
ARKBP270H	FAST ROAD	Straight forward installation.Designed for 1600/1800 engine. Vernier pulleys advised.	2000-7000	16 BHP	260 deg	260 deg	.380" _{9.65mm}	.380" ^{9.65mm}	20 - 60 64 - 16	110 deg	114 deg	.035" _{0.89mm}	.016" 0.41mm	HYDRAULIC
VVCBP270	FAST ROAD	VVC exhaust camshaft	2000-7000		N/A	264 deg	N/A	.388" ^{9.86mm}	62 - 22	N/A	110 deg	N/A	.050" 1.27mm	HYDRAULIC
ARKBP285H	ULTIMATE ROAD	Not recommended for use with std injection.	2500-7500	20 BHP+	274 deg	274 deg	.433" 11.00mm	.433" 11.00mm	29 - 65 67 - 27	108 deg	110 deg	.088" 2.23mm	.078" 1.98mm	HYDRAULIC
ARKBP285M	ULTIMATE ROAD	Not recommended for use with std injection. 1.8 capable of producing over 190bhp	2800-7800	20 BHP+	276 deg	276 deg	.440" 11.18mm	.438" 11.13mm	34 - 62 64 - 32	104 deg	106 deg	.110" 2.80mm	.098" 2.48mm	.008" / .20mm .010" / .25mm
ARKBP300H	SPRINT / HILL CLIMB		2800-7500		288 deg	288 deg	.445" 11.30mm	.445" 11.30mm	40 - 68 70 - 38	104 deg	106 deg	.133" 3.38mm	.122" 3.10mm	HYDRAULIC
ARKBP300M	SPRINT / HILL CLIMB	Over 200bhp easily obtainable with tremendous torque.	3200-8000		280 deg	280 deg	.442" 11.23mm	.440" 11.18mm	34 - 66 70 - 30	104 deg	106 deg	.121" 3.08mm	.108" 2.75mm	.008" / .20mm .010" / .25mm
ARKBP320M	RACE / SPRINT	Over 120 bhp/litre achievable.	4500-8500		290 deg	280 deg	.460" 11.68mm	.440" 11.18mm	39 - 71 71 - 39	106 deg	106 deg	.141" 3.58mm	.108" 2.75mm	.010" / .25mm .012" / .30mm
ARK1227	SLR 500	Now a legendary profile in the k series tuning world	4500-8500		280 deg	280 deg	.462" 11.73mm	.460" 11.68mm	36 - 64 68 - 32	104 deg	108 deg	.140" 3.55mm	.117" 2.97mm	.008" / .20mm .010" / .25mm
ARK1444	RACE / SPRINT	On Dave Walker's rollers this profile shows more torque & power over the 1227's!!!	4500-8500		276 deg	276 deg	.481" 12.22mm	.479" 12.17mm	34 - 62 66 - 30	104 deg	108 deg	.143" 3.63mm	.120" 3.05mm	.010" / .25mm .012" / .30mm

CAM KITS ROVER K SERIES 16v INCLUDE:

Part No.	Cams	Followers	Hydraulic Adjusters	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBARK270H	Х	FOLKH										X
KBARK285H	Х	FOLKH		VSSK								X
KBARK300H	Х	FOLKH		VSSK								X

ROVER K SERIES 16v VVC TO NON-VVC CONVERSION KITS INCLUDE:

Part No.	Cams	Solid Followers	Shims	Single Valve Springs	Spring Seats	Double Valve Springs	Spring Caps	End Plates	Actuator Plate Cover	Timing Belt	Vernier Pulley	Timing Disc & Lube
KK1 HYD	Х			VSSK				PLATES	PLATES		PULDK	Х
KK2 COMP	Х	FOLKM	SHIM74			VDSK	SC3	PLATES	PLATES		PULDK	X

The VVC cylinder head utilises substantially larger valves than the standard K series head. It is more economical to use this casting rather than have larger valves fitted to a standard head. For this reason we have developed a kit to convert the VVC mechanism back to two conventional camshafts. A 1600 engine fitted with this conversion is capable of producing in excess of 210 bhp and 1800's are now nudging 250 bhp.

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

Chill cast VVC inlet & exhaust cam any spec TBP17 - K series wide competition cam belt FOLKH - K series hydraulic cam follower set FOLKM - K series solid cam follower & shim set PLATES - K series end/actuator cover plate ROTOR - K Series rotor arm attachment PULDK - Pair K series alloy vernier pulleys VDSK - Uprated double valve spring set VSSK - Uprated single valve spring set SC3 - Steel spring cap set to suit FOLKM SC19 - Steel spring cap set to suit FOLKH

CAMSHAFTS ROVER 3.5 / 3.9 & 4.0 / 4.6 'SERPENTINE'

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1.6:1

Part No.	Application		Power	Power	Dura	ation	Valv	e Lift	Timing	Full Lift		TDC Earance	Valve
. alt liter			Band	Increase	Inl	Exh	Inl	Exh	5	InI ATDC Exh BTDC	Inl	Exh	Clearance
V8BP255	MILD ROAD and AUTO		1000-5000	10 BHP	272 deg	272 deg	.420" 10.67mm	.420" 10.67mm	24 - 68 68 - 24	112 deg	.054" 1.37mm	.054" 1.37mm	HYDRAULIC
V8BP270	FAST ROAD CARBURETTOR		1500-6000	24 BHP	272 deg	272 deg	.420" 10.67mm	.420" 10.67mm	28 - 64 64 - 28	108 deg	.072" 1.83mm	.081" 2.06mm	HYDRAULIC
V8BP270i	FAST ROAD INJECTION	Can be used in a 'carb' engine to produce low down torque	1500-6000	22 BHP	272 deg	272 deg	.420" 10.67mm	.420" 10.67mm	26 - 66 66 - 26	110 deg	.063" 1.60mm	.063" 1.60mm	HYDRAULIC
V8BP285	ULTIMATE ROAD		2000-6500	30 BHP	276 deg	276 deg	.440" 11.18mm	.440" 11.18mm	31 - 65 65 - 31	107 deg	.070" 1.78mm	.070" 1.78mm	HYDRAULIC
V8BP300H	RALLY RACE		2500-7000		286 deg	286 deg	.446" 11.33mm	.446" 11.33mm	39 - 67 67 - 39	104 deg	.108" 2.74mm	.108" 2.74mm	HYDRAULIC
V8BP300	RALLY RACE		2500-7000		300 deg	300 deg	.507" 12.87mm	.505" 12.82mm	44 - 76 76 - 44	107 deg	.168" 4.27mm	.177" ^{4.36mm}	.018" / .45mm .020" / .50mm
V8BP320	RACE		3500-8000		306 deg	306 deg	.537" 13.64mm	.535" 13.59mm	47 - 79 75 - 51	106 deg	.168" 4.27mm	.188" 4.78mm	.018" / .45mm .020" / .50mm
V8GPAK	GROUP A		2000-6500		300 deg	300 deg	.390" 9.91mm	.390" _{9.91mm}	44 - 76 76 - 44	106 deg	.095" 2.41mm	.095" 2.41mm	HYDRAULIC

ROVER V8 4.0 / 4.6 (ENGINES WITH NO DISTRIBUTOR) SHORT NOSE TYPE

V846BP285	ROAD RALLY	1800-6000	35 BHP	280 deg	286 deg	.477" 12.11mm	.477" 12.11mm	30 - 70 73 - 33	110 deg	.074" 1.88mm	.083" 2.11mm	HYDRAULIC
V846BP270	FAST ROAD	1000-5500	21 BHP	280 deg	268 deg	11.42mm	11.87mm	66 - 22	112 deg	1.37mm	1.63mm	HYDRAULIC
V/0 /00 D0 70				000	000	.450"	.467"	28 - 72	110	.054"	.064"	

CAM KITS ROVER V8 3.5 / 3.9 INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBV8255 / 270 / 270i / 285 / 300	Х	FOLV8	VSSV8								X

ROVER V8 4.0 / 4.6 (ENGINES WITH NO DISTRIBUTOR) SHORT NOSE TYPE INCLUDE:

KBV846270 / 285 X FOLV8 VSSV8		X
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSV8 - Rover V8 vernier duplex kit FOLV8 - Rover V8 cam hydraulic follower set FOLV8M - Rover V8 cam solid follower set VSSV8 - Uprated single valve spring set VTSV8 - Triple valve spring set TCV8 - Duplex timing chain

CAMSHAFTS SEAT - SEE V.A.G.

SUBARU IMPREZA TURBO

MANY MORE SPECS AVAILABLE TO SPECIAL ORDER

Many other profiles are available. Ask for details

Valve lifts quoted assume a rocker ratio of 1:1

NOTE : If solid lifter oversized shims required with reprofiled cams

BLANKS FOR VERSION 5-9 ENGINES

PIPER CAMS

		•••••												
Part No.	Application		Power Band	Power Increase	Dura Ini	ation Exh	Valv Ini	e Lift Exh	Timing	Full InI ATDC E			e TDC earance Exh	Valve Clearance
SUBBP270H	FAST ROAD	HYDRAULIC	1800-6000	15 BHP	264 deg	264 deg	.352" 8.94mm	.352" ^{8.94mm}	22 - 62 62 - 22	110 deg	110 deg	.047" 1.19mm	.047" 1.19mm	HYDRAULIC
SUBBP285H	ULTIMATE ROAD	HYDRAULIC	2500-7000		264 deg	264 deg	.400" 10.13mm	.400" 10.13mm	22 - 62 62 - 22	110 deg	110 deg	.056" 1.43mm	.057" 1.44mm	HYDRAULIC
SUBBP285	ULTIMATE ROAD		2500-7000		276 deg	276 deg	.402" 10.19mm	.400" 10.13mm	28 - 68 68 - 28	110 deg	110 deg	.075" 1.91mm	.075" 1.91mm	.008" / .20mm .010" / .25mm
SUBGPA	GROUP A RALLY	For use with 34mm restrictor	2700-6500		252 deg	252 deg	.410" 10.41mm	.410" 10.41mm	16 - 56 56 - 16	110 deg	110 deg	.060" 1.52mm	.060" 1.52mm	.008" / .20mm .010" / .25mm

SUZUKI SWIFT GTI 16v (NON VVT TYPE)

Valve lifts quoted assume a rocker ratio of 1:1

SSBP270H	FAST ROAD	2500-7000	10 BHP	256 deg	256 deg	.340" ^{8.64mm}	.340" 8.64mm	18 - 58 58 - 18	110 deg	110 deg	.024" _{0.61mm}	.024" _{0.61mm}	HYDRAULIC
SSBP285	ULTIMATE ROAD	3500-7800		280 deg	280 deg	.334" 8.48mm	.334" 8.48mm	34 - 66 66 - 34	106 deg	106 deg	.095" 2.41mm	.093" 2.36mm	.008" / .20mm .010" / .25mm
SSBP300	RALLY	4000-8500		290 deg	284 deg	.356" ^{9.04mm}	.340" ^{8.64mm}	41 - 69 66 - 38	104 deg	104 deg	.108" 2.74mm	.088" ^{2.24mm}	.008" / .20mm .010" / .25mm

TALBOT (HILLMAN) IMP

Valve lifts quoted assume a rocker ratio of 1:1

IMPBP270	FAST ROAD	2000-7000	276 deg	276 deg	.294"	.292"	29 - 67	109 deg	109 deg	.056"	.054"	.008" / .20mm
		2000 7000	210 deg	210 deg	7.45mm	7.40mm	67 - 29	100 deg	100 deg	1.42mm	1.37mm	.010" / .25mm
IMPBP285	ULITMATE ROAD Repro only available on Imp Sport cam.	3000-7500	284 deg	284 deg	.323"	.321"	33 - 71	109 deg	109 deg	.084"	.082"	.008" / .20mm
INII DI 200		3000 7300	204 deg	204 deg	8.20mm	8.15mm	71 - 33	100 deg	100 deg	2.13mm	2.08mm	.010" / .25mm
IMPBP300	RALLY	4000-8000	286 deg	286 deg	.352"	.350"	37 - 69	106 deg	106 deg	.132"	.130"	.014" / .30mm
		1000 0000	200 deg	200 deg	8.94mm	8.89mm	69 - 37	100 deg	100 deg	3.35mm	3.30mm	.016" / .35mm
IMPBP320	RACE	4500-8500	300 deg	300 deg	.355"	.353"	47 - 73	103 deg	103 deg	.152"	.150"	.008" / .20mm
		4000 0000	SOO deg	SOO deg	9.00mm	8.95mm	73 - 47	100 deg	100 deg	3.86mm	3.81mm	.010" / .25mm

TOYOTA 4AGE 16v

Valve lifts quoted assume a rocker ratio of 1:1

TOY16VBP270	FAST ROAD		2000-6500	9 BHP	252 dea	252 dea	.303"	.303"	16 - 56	110 deg	110 deg	.037"	.035"	.008" / .20mm
TOT TOT BE 210			2000 0000	0 0111	202 dog	LOL dog	7.70mm	7.70mm	56 - 16	110 dog	110 dog	0.94mm	0.89mm	.010" / .25mm
TOY16VBP285	ULITMATE ROAD	Not recommended for use with std injection	2800-7500	12 BHP	288 deg	288 deg	.353"	.351"	38 - 70	106 deg	108 deg	.096"	.094"	.008" / .20mm
10110VBI 200			2000 1000		200 deg	200 deg	8.94mm	8.89mm	70 - 38	100 deg	100 deg	2.41mm	2.36mm	.010" / .25mm
TOY16VBP300	RALLY		3000-8000		300 deg	300 deg	.351"	.349"	44 - 76	106 deg	106 deg	.144"	.142"	.008" / .20mm
10110081300			0000 0000		500 deg	500 deg	8.89mm	8.84mm	76 - 44	100 deg	100 deg	3.62mm	3.57mm	.010" / .25mm
TOY16VBP320	RACE	For use with "shim under" buckets	4000-9000		326 deg	326 deg	.375"	.373"	57 - 89	106 deg	106 deg	.158"	.156"	.008" / .20mm
10110VDI 320	I.A.O.E		4000 3000		520 deg	520 deg	9.49mm	9.44mm	89 - 57	100 deg	100 deg	4.01mm	3.96mm	.010" / .25mm

(Please note on repro option profiles may vary from specs listed)

CAMSHAFTS TOYOTA 4AGE 1.6 20v

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valve Inl	e Lift Exh	Timing	Full Inl ATDC	Lift Exh BTDC	-	TDC earance Exh	Valve Clearance
TOY20VBP270	FAST ROAD	1800-7000	10 BHP	264 deg	264 deg	.342" 8.69mm	.318" 8.08mm	22 - 62 62 - 22	110 deg	110 deg	.049" 3.17mm	.033" 2.62mm	.010" / .25mm .012" / .30mm
TOY20VBP285	ULTIMATE ROAD	2500-8000		276 deg	264 deg	240"	.340" 8.64mm	30 - 66 60 - 24	108 deg	108 deg	.073"	.055" 1.39mm	.010" / .25mm .012" / .30mm
TOY20VBP300	RALLY	3000-8500		296 deg	280 deg	.327" 8.31mm	.327" 8.31mm	42 - 74 66 - 34	106 deg	106 deg	.125" 3.17mm	.103" 2.62mm	.010" / .25mm .012" / .30mm
TOY20VBP320	RACE	4000-9000		320 deg	296 deg	.402" 10.16mm	.325" 9.00mm	56 - 84 72 - 42	104 deg	106 deg	.142" 3.61mm	.123" 3.12mm	.008" / .20mm .012" / .30mm

TOYOTA CELICA 2ZZ VVTLI

Valve lifts quoted assume a rocker ratio of 1.645:1 Low Lift / 1.795:1 High Lift

		Application		Power		Dura	ation			V	alve Lift		Valve
Part No.	Application		Power Band	Increase	. Inl		Exhau		In			haust	Clearance
			Balla	morodoo	Low	High	Low	High	Low	High	Low	High	Cicaraneo
VVTLIBP270	FAST ROAD	Massive mid range improvements + 26lb/ft!	2000-8500	15 BHP	268deg	288deg	268deg	284dea	.362"	.472"	.362"	.433"	.008" / .20mm
	I AOT ROAD		2000 0000	10 DIT	Loodog	Looddy	Locateg	Lo lucg	9.20mm	12.00mm	9.20mm	11.00mm	.010" / .25mm
VVTLIBP285	ULTIMATE ROAD		2000-8500		276deg	288deg	276deg	284dea	.382"	.482"	.380"	.445"	.008" / .20mm
VVILIDI 200	OF TIMATE ROAD		2000-0300		21 Odeg	2000eg	21 Odeg	20-ruey	9.70mm	12.30mm	9.65mm	11.30mm	.010" / .25mm
VVTLIBP320	RACE		2000-8500		276deg	304deg	276deg	296deg	.382"	.500"	.380"	.460"	.008" / .20mm
VVILIDI 520	RACE		2000-0300		21 Ouey	30- deg	21 Odeg	200uey	9.70mm	12.70mm	9.65mm	11.68mm	.010" / .25mm

TOYOTA MR2 MK2 / CELICA 2.0 16v 3SGE & 3SGTE TURBO (Not suitable for 'BEAMS')

Reprofiled cams will required oversize shims

Valve lifts quoted	assume a rocker ratio of 1:1				Blank car	ms ground wi	ith standard B0	CD. Due to the	e extra lift the	head mayb	e require m	achining in pre1994
TOYSGBP270	FAST ROAD NATURALLY ASPIRATED	2000-6500	10 BHP	260 deg 260 deg	.369"	.367"	20 - 60	110 deg	110 deg	.042"	.040"	.010" / .25mm
1010001210		2000 0000	10 DHI	200 deg 200 deg	9.37mm	9.32mm	60 - 20	110 deg	110 deg	1.06mm	1.01mm	.012" / .30mm
TOYSGBP270T	FAST ROAD TURBO	2000-6500	14 BHP	260 deg 260 deg	.369"	.367"	20 - 60	110 deg	110 deg	.042"	.040"	.010" / .25mm
10100012101		2000 0000		200 deg 200 deg	9.37mm	9.32mm	60 - 20	110 deg	TTO deg	1.06mm	1.01mm	.012" / .30mm
TOYSGBP285	ULTIMATE ROAD NATURALLY ASPIRATED	2500-7000	14 BHP	264 deg 264 deg	.412"	.410"	24 - 60	108 deg	108 dea	.071"	.069"	.008" / .20mm
10100Bi 200		2000 7000		204 deg 204 deg	10.47mm	10.42mm	60 - 24	100 deg	TOO deg	1.78mm	1.68mm	.010" / .25mm
TOVSGBP285T	ULTIMATE ROAD TURBO	2500-7000	20BHP	264 deg 264 deg	.412"	.410"	22 - 62	110 deg	110 deg	.062"	.060"	.008" / .20mm
10100012001		2000 7000	200111	204 deg 204 deg	10.47mm	10.42mm	62 - 22	TTO deg	TTO deg	1.58mm	1.52mm	.010" / .25mm
TOVSGTRP300	RALLY NATURALLY ASPIRATED	2500-7000		272 deg 272 deg	.430"	.428"	28 - 64	108 deg	110 dea	.072"	.060"	.010" / .25mm
10100101000		2000-7000			10.92mm	10.87mm	66 - 26	100 deg	i i o deg	1.83mm	1.52mm	.012" / .30mm

TOYOTA SUPRA 2JZ

Valve lifts quoted assume a rocker ratio of 1:1

TOY2JZBP270	FAST BOAD	2000-6500	25 BHP	264 deg 264 deg	.365"	.354"	22 - 62	110 deg	110 deg	.040"	.038"	.010" / .25mm
10123201270		2000-0300	23 DHI	204 deg 204 deg	9.05mm	9.00mm	62 - 22	110 deg	110 deg	1.02mm	0.97mm	.012" / .30mm
TOV2 178P285	ULTIMATE ROAD	2500-7000		264 deg 272 deg	.376"	.374"	22 - 62	110 deg	110 deg	.044"	.054"	.010" / .25mm
10123201203		2000-7000		ZO4 deg ZIZ deg	9.55mm	9.50mm	66 - 26	TTO deg	TTO deg	1.12mm	1.37mm	.012" / .30mm
TOY2JZBP300	RALLY	3000-7500		272 deg 280 deg	.423"	.421"	26 - 66	110 deg	110 dea	.076"	.092"	.010" / .25mm
TOTZJZBF 300		3000-7300		272 deg 280 deg	10.74mm	10.69mm	70 - 30	TTO deg	TTO deg	1.94mm	2.34mm	.012" / .30mm

(Please note on repro option profiles may vary from specs listed)

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULD3SG - Toyota 3SG / 3SGTE vernier pulleys VDS3SG - TOYOTA 3SGE / 23SGTE double valve spring set VSS3SG - TOYOTA 3SGE / 3SGTE single valve spring set

CAMSHAFTS TRIUMPH 1.2 / 1.3 / 1.5 4 Cyl Large 49.94mm & Small 46.755mm journal blank available



Valve lifts quoted assume a rocker ratio of 1.5:1

Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valv Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC	-	TDC earance Exh	Valve Clearance
TRBP255	MILD ROAD	1500-5800	6 BHP	252 deg	252 deg	.380"	.380"	17 - 55	109 deg	.042"	.040"	.022" / .55mm
			0.2	202 009	202 009	9.65mm	9.65mm	55 - 17		1.06mm	1.01mm	.024" / .60mm
TRBP270	FAST ROAD	2000-6400	10 BHP	268 deg	268 deg	.414"	.412"	26 - 62	108 deg	.070"	.068"	.012" / .30mm
TRBI 210		2000 0100	TO BIT	200 deg	200 deg	10.52mm	10.47mm	62 - 26	100 deg	1.77mm	1.72mm	.014" / .35mm
TRBP285	ULTIMATE ROAD	2800-6800	14 BHP	284 deg	284 deg	.414"	.414"	36 - 68	106 deg	.112"	.114"	.012" / .30mm
11(B) 200		2000 0000		204 deg	204 deg	10.52mm	10.52mm	68 - 36	100 deg	2.84mm	2.89mm	.014" / .35mm
TRBP300	RALLY	3500-7500		300 dog	300 deg	.445"	.445"	44 - 76	106 deg	.125"	.123"	.016" / .40mm
		00007000		SOO deg	500 deg	11.30mm	11.30mm	76 - 44	100 deg	3.18mm	3.12mm	.018" / .45mm

TRIUMPH TR 3/4

Valve lifts quoted assume a rocker ratio of 1.5:1

TR3BP270	FAST ROAD	1300-5500	8 BHP	272 deg	272 deg	.411" 10.44mm	.409" 10.39mm	26 - 66 66 - 26	110 deg	.055" 1.40mm	.053" 1.35mm	.014" / .30mm .016" / .35mm
TR3BP285	ULTIMATE ROAD	2000-6000	12 BHP	286 deg	286 deg	.446" 11.32mm	.444" 11.27mm	33 - 73 73 - 33	110 deg	.112" 2.84mm	.110" 2.79mm	.016" / .40mm .018" / .45mm
TR3BP300	RALLY	2500-6500		302 deg	302 deg	.465" 11.81mm	.463" 11.76mm	43 - 79 79 - 43	108 deg	.139" 3.53mm	.137" 3.48mm	.016" / .40mm .018" / .45mm
TR3BP320	RACE	3000-7000		328 deg	328 deg	.495" 12.57mm	.493" 12.52mm	58 - 90 90 - 58	106 deg	.175" 4.44mm	.173" ^{4.39mm}	.016" / .40mm .018" / .45mm

TRIUMPH 2.0 / 2.5 6 Cyl

Valve lifts quoted assume a rocker ratio of 1.5:1

TR6BP255	MILD ROAD	1000-5500	8 BHP	252 deg	252 deg	.380"	.380"	17 - 55	109 deg	.042"	.040"	.022" / .55mm
			0 2	_0_ dog	_0_ aog	9.65mm	9.65mm	55 - 17		1.06mm	1.01mm	.024" / .60mm
TR6BP270	FAST ROAD	1500-6000	12 BHP	264 deg	264 deg	.406"	.406"	24 - 60	108 deg	.070"	.068"	.016" / .40mm
		1000 0000		204 deg	204 deg	10.31mm	10.31mm	60 - 24	100 deg	1.77mm	1.72mm	.018" / .45mm
TR6BP285	ULTIMATE ROAD	2500-6500	16 BHP	284 deg	284 deg	.414"	.414"	36 - 68	106 deg	.112"	.114"	.012" / .30mm
		2000 0000	10 011	204 deg	204 deg	10.52mm	10.52mm	68 - 36	100 deg	2.84mm	2.89mm	.014" / .35mm
TR6BP300	RALLY	2800-7000		300 deg	300 deg	.445"	.445"	44 - 76	106 deg	.125"	.123"	.016" / .40mm
TRODI 500		2000-7000		SOU deg	SOU deg	11.30mm	11.30mm	76 - 44	TOO deg	3.18mm	3.12mm	.018" / .45mm
TR6BP320	RACE	3200-7500		312 dog	312 deg	.490"	.490"	52 - 80	104 deg	.180"	.178"	.014" / .35mm
TRODI 320	NAVE	3200-7300		JIZ deg	JIZ deg	12.45mm	12.45mm	80 - 52	104 deg	4.57mm	4.52mm	.016" / .40mm

CAM KITS TRIUMPH 1.2 / 1.3 / 1.5 4 Cyl

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBTR270 / 285	Х	FOLT	VSSTR4								X

TRIUMPH 2.0 / 2.5 6 Cyl

KBTR6270 / 285	X	FOLT6	VSSTR6								Х
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSTR6 - Triumph 6 cyl single spring set VDSTR6 - Triumph 6 cyl double spring set FOLT6 - Triumph 6 cyl cam follower set FOLT - Triumph 4cyl cyl cam follower set VSSTR4 - Triumph 4 cyl single spring set 1.2/1.3/1.5

CAMSHAFTS TRIUMPH DOLOMITE SPRINT 16v

Valve lifts quoted assume a rocker ratio of 1:1

Solid followers must be used with this range of camshafts

Part No.	Application	Power Band	Power Increase	Dura Ini	ation _{Exh}	Valve Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		earance Exh	Valve Clearance
TRSBP270*	FAST ROAD	2000-6500	8 BHP	280 deg	280 deg	.385" 9.78mm	.383" 9.73mm	32 - 68 68 - 32	108 deg	.099" 2.51mm	.097" 2.46mm	.012" / .30mm .014" / .35mm
TRSBP285*	ULTIMATE ROAD	2500-7000	12 BHP	296 deg	296 deg	400"	.424"	40 - 76 76 - 40	108 deg	.139" 3.53mm	.137" 3.48mm	.008" / .20mm .010" / .25mm
TRSBP300*	RALLY	3000-7500		312 deg	312 deg	.427" 10.85mm	.425" 10.80mm	48 - 84 84 - 48	108 deg	.154" 3.91mm	.152" 3.86mm	.008" / .20mm .010" / .25mm
TRSBP320*	RACE	3500-8000		316 deg	316 deg	.443" 11.25mm	.443" 11.25mm	50 - 86 86 - 50	108 deg	.164" 4.17mm	.162" 4.12mm	.014" / .30mm .016" / .35mm

VAUXHALL / OPEL C.I.H. 1600 / 1900 / 2000

Valve lifts quoted assume a rocker ratio of 1.52:1

OPBP255	MILD ROAD	1800-6000	6 BHP	260 deg 260 deg	.393" 9.98mm	.393" 9.98mm	21 - 59 59 - 21	109 deg	.051" 1.30mm	.049" 1.25mm	.016" / .40mm .018" / .45mm
OPBP270	FAST ROAD	2000-6500	10 BHP	268 deg 268 deg	.421" 10.69mm	.421" 10.69mm	26 - 62 62 - 26	108 deg	.071" 1.80mm	.069" 1.75mm	.012" / .30mm .014" / .35mm
OPBP285	ULTIMATE ROAD	2500-6700	16 BHP	280 deg 280 deg	.435" 11.05mm	.435" 11.05mm	34 - 66 66 - 34	106 deg	.088" 2.23mm	.086" 2.18mm	.012" / .30mm .014" / .35mm
OPBP300	RALLY	3000-7400		300 deg 300 deg	.450" 11.43mm	.450" 11.43mm	46 - 74 74 - 46	104 deg	.135" 3.43mm	.133" 3.38mm	.016" / .40mm .018" / .45mm
OPBP320	RACE	4000-8000		328 deg 328 deg	.517" 13.13mm	.517" 13.13mm	62 - 86 86 - 62	102 deg	.210" 5.33mm	.208" 5.28mm	.012" / .30mm .014" / .35mm

VAUXHALL / OPEL CARLTON / SENATOR 6 Cyl

Valve lifts quoted assume a rocker ratio of 1.52:1

OP6BP255	MILD ROAD	1500-5800	6 BHP	260 deg 260 deg	.393"	.393"	21 - 59	109 deg	.051"	.049"	.016" / .40mm
				200 deg 200 deg	9.98mm	9.98mm	59 - 21		1.30mm	1.25mm	.018" / .45mm
OP6BP270	FAST ROAD	1800-6200	10 BHP	268 deg 268 deg	.421"	.421"	26 - 62	108 deg	.071"	.069"	.012" / .30mm
				200 deg 200 deg	10.69mm	10.69mm	62 - 26		1.80mm	1.75mm	.014" / .35mm
OP6BP285 ULTIMATE ROA		2200-6750	16 BHP	280 deg 280 deg	.435"	.435"	34 - 66	106 deg	.088"	.086"	.012" / .30mm
				200 deg 200 deg	11.05mm	11.05mm	66 - 34	TOO deg	2.23mm	2.18mm	.014" / .35mm

VAUXHALL OPEL OMEGA / VECTRA 2.5 / 3.0 / 3.2 V6 24v C25XE / X25XE / Y26SE / Y32SE

Valve lifts quoted assume a rocker ratio of 1:1

OPV6BP270A	FAST ROAD	For use in 2.5 engine	1800-6000	15 BHP	248 deg 248 deg	.375" ^{9.53mm}	.375" ^{9.53mm}	14 - 54 54 - 14	110 deg 110 deg	.032" _{0.81mm}	.032" _{0.81mm}	HYDRAULIC
OPV6BP270B	FAST ROAD	For use in 3.0 & 3.2 engine	2000-6500	20 BHP	256 deg 256 deg	.415" 10.54mm	.415" 10.54mm	18 - 58 58 - 18	110 deg 110 deg	.043" 1.09mm	.043" 1.09mm	HYDRAULIC

CAM KITS VAUXHALL / OPEL C.I.H. 1600 / 1900 / 2000 INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBOP270 / 285 / 300 / 320	Х	FOLO	VSSOP								Х

(Please note on repro option profiles may vary from specs listed) ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

* Cast camshafts also available

PULSOP - Vauxhall CIH vernier duplex kit VSSOP - Vauxhall CIH 4 cyl single spring/seat kit FOLO -Vauxhall CIH 4 cyl solid cam follower set

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PIPER CAMS

CAMSHAFTS VAUXHALL / OPEL ASTRA / NOVA 1.2 / 1.3 / 1.4 / 1.6 GTE



Part No.	Application		Power Band	Power Increase	Dura Ini	ition Exh	Valve Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		earance Exh	Valve Clearance
A13BP270H	FAST ROAD		2000-6500	12 BHP	272 deg	272 deg	.444" 11.29mm	.444" 11.29mm	28 - 64 64 - 28	108 deg	N/A	N/A	HYDRAULIC
A13BP270Hi	FAST ROAD	For use in 1.4 injection engines	2000-6000	10 BHP	268 deg	268 deg	.444" 11.29mm	.444" 11.29mm	24 - 64 64 - 24	110 deg	N/A	N/A	HYDRAULIC
A13BP285H	ULTIMATE ROAD	For use with 2 x 40 DCOE's	2200-6800	14 BHP	280 deg	280 deg	.487" 12.37mm	.487" 12.37mm	33 - 67 67 - 33	107 deg	N/A	N/A	HYDRAULIC
A13BP300H	RALLY	Cam carrier requires skimming	2800-7500		300 deg	300 deg	.475" 12.06mm	.475" 12.06mm	44 - 76 76 - 44	106 deg	N/A	N/A	HYDRAULIC
A13BP320M	RACE	1.3 Stock Rod	3500-8000		300 deg	300 deg	.485" 12.32mm	.485" 12.32mm	44 - 76 76 - 44	106 deg	N/A	N/A	.008" / .20mm .010" / .25mm
A13743	RACE	1.4 Stock Rod	3500-8000		300 deg	308 deg	.465" 11.81mm	.465" 11.81mm	44 - 76 80 - 48	106 deg	N/A	N/A	.008" / .20mm .010" / .25mm

VAUXHALL OPEL / ASTRA / CAVALIER / CALIBRA / VECTRA 1.6i / 1.8i / 2.0i 8v J SERIES

Valve lifts quoted assume a rocker ratio of 1.69:1

A18BP270HA	FAST ROAD		2000-6500	10 BHP	272 deg 272 deg	.444" 11.29mm	.444" 11.29mm	28 - 64 64 - 28	108 deg	N/A	N/A	HYDRAULIC
A18BP270HB	FAST ROAD	For use in SRI 130	2000-6500	10 BHP	276 deg 268 deg	.465" 11.81mm	.444" 11.29mm	28 - 68 64 - 24	110 deg	N/A	N/A	HYDRAULIC
A18BP285H	ULTIMATE ROAD	For use with 2 x DCOE's	2200-6800	14 BHP	280 deg 280 deg	.490" 12.45mm	.490" 12.45mm	33 - 67 67 - 33	107 deg	N/A	N/A	HYDRAULIC
A18BP300M	RALLY	Mechanical	3000-7600		300 deg 300 deg	.513" 13.03mm	.513" 13.03mm	44 - 76 76 - 44	106 deg	N/A	N/A	.008" / .20mm .010" / .25mm
A18BP320M	RACE	Mechanical	3500-8000		310 deg 310 deg	.559" 14.20mm	.559" 14.20mm	49 - 81 81 - 49	106 deg	N/A	N/A	.014" / .35mm .016" / .40mm

CAM KITS VAUXHALL / OPEL ASTRA / NOVA 1.2 / 1.3 / 1.4 / 1.6 GTE INCLUDE:

Part No.	Cams	Followers	Valve Springs	Hydraulic Adjusters	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBV13270H / 270HI / 285H	Х	FOLAST		ASTADJH							Х
KBV13300H / 320H	Х	FOLAST	VSSAST13	ASTADJH							X

VAUXHALL OPEL / ASTRA / CAVALIER / CALIBRA / VECTRA 1.6i / 1.8i / 2.0i 8v J SERIES INCLUDE:

KBV18270HA / 270HB / 285	Х	FOLAST		ASTADJH				Х
KBV18300H / 320H	Х	FOLAST	VSSAST18	ASTADJH				X

(Please note on repro option profiles may vary from specs listed)

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDA13 - Vauhall 1.3 alloy vernier pulley PULDGTE - Vauxhall 1.4/1.6 GTE vernier pulley PULDA18 - Vauhall 1.8/2.0 alloy vernier pulley VSSAST18 - Vauxhall 1.6/1.8 single spring kit

ASTADJH - Vauxhall fwd hydraulic adjusters FOLAST - Vauxhall fwd cam follower set FOLASTM - Vaux fwd follower set for use with ASTADJM VSSAST13 - Vauxhall 1.3/1.4/1.6 single spring kit TBP18 - Vauxhall 1.3 1980 on comp.cam belt TBP19 - Vauxhall 1.4/1.6 (104 tooth) comp.cam belt TBP20 - Vauxhall 1.4/1.6 (111 tooth) comp.cam belt TBP21 - Vauxhall 1.6/1.8/2.0 comp.cam belt

CAMSHAFTS VAUXHALL / OPEL CORSA / TIGRA 1.4 / 1.6 16v X14XE / X16XE

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valve Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		earance Exh	Valve Clearance
C16VBP270H	FAST ROAD	1800-6800	10 BHP	256 deg	256 deg	.372" 9.45mm	.372" ^{9.45mm}	18 - 58 58 - 18	110 deg 110 deg	.032" 0.81mm	.032" _{0.81mm}	HYDRAULIC
C16VBP285H	ULTIMATE ROAD Not recommended for use with std injection.	2000-7000	14 BHP	264 deg	264 deg	.395" 10.03mm	.395" 10.03mm	22 - 62 62 - 22	110 deg 110 deg	.058" 1.47mm	.058" 1.47mm	HYDRAULIC
C16VBP300H	RALLY	3000-7800		280 deg	278 deg	.450" 11.43mm	.435" 11.05mm	34 - 66 65 - 33	106 deg 106 deg	.108" 2.74mm	.098" 2.49mm	HYDRAULIC
C16VBP300M	RALLY	3000-8000		290 deg	280 deg	.455" 11.56mm	.420" 10.67mm	39 - 71 66 - 34	106 deg 106 deg	.138" 3.51mm	.106" 2.69mm	.012" / .30mm .012" / .30mm
C16VBP320M	RACE	4000-8500		300 deg	300 deg	.462" 11.73mm	.435" 11.05mm	48 - 72 74 - 46	102 deg 104 deg	.187" 4.75mm	.146" 3.71mm	.012" / .30mm .012" / .30mm

VAUXHALL ASTRA / VX220 2.2 16v (ROLLER ROCKER TYPE) Z22SE

Valve lifts quoted assume a rocker ratio of 1.72:1

V	X22BP270	FAST ROAD	2000-6800	10 BHP	260 deg 260 deg	.423"	.423"	23 - 63	110 deg 110 deg	N/A	N/A	HYDRAULIC
v.		TACT ROAD	2000 0000	10 DHI	200 deg 200 deg	10.74mm	10.74mm	63 - 23	110 deg 110 deg			TTERVOLIO

VAUXHALL / OPEL 1.8 - 2.0 ECOTEC 16v X18XE / X20XE

Valve lifts quoted assume a rocker ratio of 1:1

ECOBP270H	FAST ROAD		1500-6500	10 BHP	256 deg	256 deg	.372" ^{9.45mm}	.372" ^{9.45mm}	18 - 58 58 - 18	110 deg	110 deg	.032" _{0.81mm}	.032" _{0.81mm}	HYDRAULIC
ECOBP285H	ULTIMATE ROAD	Not recommended for use with std injection	2000-7000	14 BHP	264 deg	264 deg	.395" 10.03mm	.395" 10.03mm	22 - 62 62 - 22	110 deg	110 deg	.058" 1.47mm	.058" 1.47mm	HYDRAULIC
ECOBP300H	RALLY		3000-7800		280 deg	278 deg	.450" 11.43mm	.435" 11.05mm	34 - 66 65 - 33	106 deg	106 deg	.108" 2.74mm	.098" 2.49mm	HYDRAULIC

CAM KITS VAUXHALL / OPEL CORSA / TIGRA 1.4 / 1.6 16v X14XE / X16XE

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBC16V270H	Х	FOLCOR									Х
KBC16V285H	Х	FOLCOR	VSSCOR	SSCOR		SC63					X
KBC16V300H	Х	FOLCOR	VDSCOR			SC16					X

VAUXHALL / OPEL 1.8 / 2.0 X18XE / X20XE ECOTEC 16v INCLUDE:

KBECO270H / 285H	X	FOLECO						Х
KBECO285H	Х	FOLECO						Х
KBECO300H	Х	FOLECO	VDSECO		SC58			Х

(Please note on repro option profiles may vary from specs listed) ADDITIONAL COMPONENTS FOR ABOVE ENGINES: PUL

PULDECO - Pr vauxhall ecotec alloy vernier pulleys

TBP36 - Vauxhall Ecotec X18XE X20XE cam belt

SSCOR vauxhall X14XE X16XE spring seats PULDCOR - Pr vauxhall corsa 16v alloy vernier pulleys

SC63 - Vauxhall Corsa X14/X16XE 16v steel valve spring retainers

VSSCOR - Vauxhall corsa 16v single valve spring kit VDSCOR - Vauxhall corsa 16v double valve spring kit SC16 - Vauxhall corsa b 16v double valve spring retainers SC58 - Vauxhall ecotec 1.8 16v steel valve spring retainers

CAMSHAFTS VAUXHALL / OPEL CORSA / ASTRA 1.8 ECOTEC 16v Z18XE

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Dura Ini	ation _{Exh}	Valv Inl	e Lift Exh	Timing	Full Lift Inl ATDC Exh BTDC		@ TDC learance Exh	Valve Clearance
Z18BP270	FAST ROAD	2000-6800	10 BHP	240 deg	244 deg	.347" ^{8.81mm}	.344" 8.72mm	10 - 50 52 - 12	110 deg 110 deg	.017" _{0.44mm}	.010" _{0.26mm}	HYDRAULIC

VAUXHALL / OPEL ASTRA / CAVALIER / CALIBRA 16v C20XE

Valve lifts quoted assume a rocker ratio of 1:1

A16VBP270H	FAST ROAD		1500-6700	15 BHP	264 deg	264 deg	.400" 10.16mm	.400" 10.16mm	22 - 62 62 - 22	110 deg	110 deg	.042" 1.07mm	.042" 1.07mm	HYDRAULIC
A16VBP270HT	FAST ROAD TURBO	For use in turbo engine	1800-6500	15 BHP	256 deg	256 deg	.372" ^{9.45mm}	.372" ^{9.45mm}	18 - 58 58 - 18	110 deg	110 deg	.032" _{0.81mm}	.032" _{0.81mm}	HYDRAULIC
A16VBP285H	ULTIMATE ROAD	Not recommended for use with std injection. Piper valve springs (Part No VDSAST16) must be used	2000-7200	20 BHP	280 deg	278 deg	.450" 11.43mm	.435" 11.05mm	34 - 66 65 - 33	106 deg	106 deg	.108" 2.74mm	.098" 2.49mm	HYDRAULIC
A16VBP300H	RALLY	Piper valve springs (Part No VDSAST16) must be used	2600-7800		280 deg	280 deg	.455" 11.56mm	.455" 11.56mm	34 - 66 66 - 34	106 deg	106 deg	.115" 2.92mm	.115" 2.92mm	HYDRAULIC
A16VBP285M	ULTIMATE ROAD	Not recommended for use with std injection. Piper valve springs (Part No VDSAST16) must be used	2000-7200	20 BHP	280 deg	268 deg	.437" 11.10mm	.427" 10.85mm	34 - 66 60 - 28	106 deg	106 deg	.108" 2.74mm	.074" 1.88mm	.008" / .20mm .010" / .25mm
A16VBP300M	RALLY	Piper valve springs (Part No VDSAST16) must be used	3000-8000		290 deg	280 deg	.455" 11.56mm	.420" 10.67mm	39 - 71 66 - 34	106 deg	106 deg	.138" 3.51mm	.106" 2.69mm	.012" / .30mm .012" / .30mm
A16VBP320M	RACE	Piper valve springs (Part No VDSAST16) must be used	4000-8500		300 deg	300 deg	.462" 11.73mm	.435" 11.05mm	48 - 72 74 - 46	102 deg	104 deg	.187" 4.75mm	.146" 3.71mm	.012" / .30mm .012" / .30mm
A16VHOTROD	RACE HOT ROD	Piper valve springs (Part No VDSAST16) must be used	4000-8500+		304 deg	300 deg	.466" 11.80mm	.440" 11.18mm	46 - 78 76 - 44	106 deg	106 deg	.170" 4.32mm	.137" 3.48mm	.008" / .20mm .010" / .25mm
A16VPICKUP	RACE PICK UP	Piper valve springs (Part No VDSAST16) must be used	3700-7800		296 deg	300 deg	.440" 11.18mm	.440" 11.18mm	42 - 74 76 - 44	106 deg	106 deg	.161" 4.09mm	.137" 3.48mm	.008" / .20mm .010" / .25mm
A16V2072	RACE HOT ROD 2006	Piper valve springs (Part No VDSAST16) must be used	3700-7800		284 deg	276 deg	.450" 11.42mm	.420" 10.66mm	40 - 64 62 - 34	102 deg	104 deg	.129" 3.27mm	.101" 2.56mm	.008" / .20mm .010" / .25mm

VAUXHALL ASTRA VXR 2.0 TURBO Z20LEH (Reprofiled spec also available but milder than blank option)

Valve lifts quoted assume a rocker ratio of 1:1

VXRBP270H	AST ROAD (E	Blank cam spec only)			1500-6700	15 BHP	254 deg	254 deg	.400" 10.16mm	.400" 10.16mm	17 - 57 57 - 17	110 deg	110 deg .035" _{0.89mm}	.035" _{0.89mm}	HYDRAULIC
CAM KITS	S	VAUXHALL /	OPEL CORS	A / ASTRA 1	.8 ECOTE	C 16v Z18	BXE								
Part No.		Cams	Followers	Valve Springs	Spring	Seats	Stem Seals	Spring Caps	Spra	y Bar	Ball S	Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBZ18270H		Х	FOLCOR												X
		VAUXHALL /	OPEL ASTR	A / CAVALIE	R / CALIBF	RA 16v C	20XE C2	20LET*							
KBA16V270H / 270	0HT*	Х	FOLAST16H												Х
KBA16V285H / 300	0H	X	FOLAST16H	VDSAST16											X
		VAUXHALL A	STRA VXR 2	.0 TURBO Z	20LEH										
KBVXR270H		x	FOLECOH												Х

(Please note on repro option profiles may vary from specs listed) ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDA20 - Pr Vaux 2.0 16v alloy vernier pulleys (round tooth) PULDA20B - Pr Vaux 2.0 16v alloy vernier pulleys (square tooth) VDSAST16 - Vauxhall 2.0 16v double valve spring kit SC17 - Vauxhall 2.0 16v steel valve spring retainers FOLAST16H - Vauxhall 16v hydraulic follower set FOLAST16M - Vauxhall 16v comp.solid follower set TBP42 -Vauxhall Corsa/Tigra B X14xe X16xe cam belt TBP43 -Vauxhall Corsa C Z14xe Z18XE cam belt

TBP35 - Vauxhall 2.0 16v 93> competition cam belt (square tooth)

TBP22 - Vauxhall 2.0 16v >92 competition cam belt (round tooth)

CAMSHAFTS V.A.G. LUPO / POLO 1.6 16V (AVY, ARC)

Valve lifts quoted assume a rocker ratio of 1:92

Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valv Ini	e Lift _{Exh}	Timing	Full Lift InI ATDC Exh BTDC	Lift @ TDC with clearance Inl Exh	Valve Clearance
LUPOBP270R	FAST ROAD	1500-6000	8 BHP	254 deg	236 deg	.386" ^{9.80mm}	.378" ^{9.60mm}	20 - 54 45 - 11	107deg 107deg	N/A	HYDRAULIC

V.A.G.POLO 1.4 16V (AFH) HYDRAULIC

POL16VBP270H FAST ROAD	1500-6700	8 BHP	240 deg 240 deg	.347"	.347"	10 - 50	110deg 110deg	.019"	.019"	HYDRAULIC
	1000 0100	0 Dill		8.80mm	8.80mm	50- 10	i reacy i reacy	0.48mm	0.48mm	IIIDIGIOLIO

V.A.G. GOLF / POLO 1400 8V INC G40 HYDRAULIC

Valve lifts quoted assume a rocker ratio of 1:1

VPHBP270H	FAST ROAD		1500-6700	8 BHP	254 deg	254 deg	.400" 10.16mm	.400" 10.16mm	17 - 57 57- 17	110 deg	.042" 1.07mm	.042" 1.07mm	HYDRAULIC
G40BP270H	FAST ROAD	For use in G40 Supercharged engine.	1800-6500	15 BHP	252 deg	274 deg	.372" ^{9.45mm}	.433" 11.00mm	16 - 56 67 - 27	110 deg	.032" _{0.81mm}	.078" 1.98mm	HYDRAULIC
VPHBP285H	ULTIMATE ROAD		2000-7200	12 BHP	268 deg	268 deg	.428" 10.87mm	.428" 10.87mm	26 - 62 62 - 26	108 deg	.069" 1.75mm	.069" 1.75mm	HYDRAULIC
VPHBP300H	RALLY		3000-7800		280 deg	280 deg	.433" 11.00mm	.433" 11.00mm	34 - 66 66 - 34	106 deg	.098" 2.49mm	.098" 2.49mm	HYDRAULIC

V.A.G. GOLF GTI Mk1 MECHANICAL

Valve lifts quoted assume a rocker ratio of 1:1

GTIBP270	FAST ROAD	1800-6000 10 BHP	276 deg 276 deg	.420" .420" 10.67mm 10.67mm	30 - 66 66 - 30	108 deg	.102" 2.59mm	.100" 2.54mm	.008" / .20mm .010" / .25mm
GTIBP285	ULTIMATE ROAD	2200-6500 14 BHP	280 deg 280 deg	.430" .428" 10.92mm 10.87mm	34 - 66 66 - 34	106 deg	.119" 3.02mm	.117" 2.97mm	.010" / .25mm .012" / .30mm
GTIBP300	RALLY	3000-7300	304 deg 304 deg	.435" .435" 11.05mm 11.05mm	48 - 76 76 - 48	104 deg	.166" 4.22mm	.164" 4.17mm	.010" / .25mm .012" / .30mm
GTIBP320	RACE	3500-8000	316 deg 316 deg	.435" .435" 11.05mm 11.05mm	54 - 82 82 - 54	104 deg	.171" 4.34mm	.169" 4.29mm	.008" / .20mm .010" / .25mm
GTI528	RACE HOT ROD The ultimate oval race cam.	4000-8500+	328 deg 328 deg	.552" .552" 14.02mm 14.02mm	62 - 86 86 - 62	102 deg	.238" _{6.04mm}	.236" ^{5.99mm}	.008" / .20mm .010" / .25mm

CAM KITS V.A.G. GOLF / POLO 1400 8V INC G40 INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBVG270H / 285H / 300H	Х	FOLVWH									X
KBG40270H	Х	FOLVWH									X

V.A.G. GOLF GTI Mk1 MECHANICAL INCLUDE:

KBVG270 / 285 X	PULDGTI X
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CAMSHAFTS V.A.G. GOLF GTI 1800 8v HYDRAULIC



Part No.	Application	Power Band	Power Increase	Dura Ini	ation Exh	Valve Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		earance Exh	Valve Clearance
GTIBP270H	FAST ROAD	2000-6200	10 BHP	260 deg	260 deg	.428" 10.87mm	.428" 10.87mm	22 - 58 58 - 22	108 deg	.069" 1.75mm	.069" 1.75mm	HYDRAULIC
GTIBP285H	ULTIMATE ROAD	2500-6800	15 BHP	276 deg	276 deg	.450" 11.43mm	.450" 11.43mm	30 - 66 70 - 26	108 deg	.104" 2.64mm	.081" 2.06mm	HYDRAULIC
GTIBP300H	RALLY	3000-7500		294 deg	294 deg	.445" 11.30mm	.445" 11.30mm	41 - 73 73 - 41	106 deg	.134" 3.40mm	.134" 3.40mm	HYDRAULIC

V.A.G. GOLF GTI Mk3 & NEW BEETLE 2.0 8v

Valve lifts quoted assume a rocker ratio of 1:1

GTI20BP270H FAST ROAD	2000-6000	10 BHP	256 deg 264 de	.417"	.428"	18 - 58	110 deg	.043"	.063"	HYDRAULIC
	2000 0000	10 Bill	200 deg 204 de	9 10.59mm	10.87mm	62 - 22	110 deg	1.09mm	1.60mm	

V.A.G. GOLF G60 SUPERCHARGED

Valve lifts quoted assume a rocker ratio of 1:1

G60BP270H	FAST ROAD	2000-6000	12 BHP	260 deg	260 deg	.428" 10.87mm	.428" 10.87mm	16 - 64 64 - 16	114 deg	.040" 1.01mm	.040" 1.01mm	HYDRAULIC
G60BP285H	ULITMATE ROAD Ideal for use with pulley/chip kit	2400-6500	18 BHP	268 deg	268 deg	.438" 11.13mm	.438" 11.13mm	20 - 68 68 - 20	114 deg	.042" 1.07mm	.042" 1.07mm	HYDRAULIC

CAM KITS V.A.G. GOLF GTI 1800 8v HYDRAULIC INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBVG270H / 285H / 300H	Х	FOLVWH									X

V.A.G. GOLF Mk3 & NEW BEETLE 2.0 8v INCLUDE:

KBVG20270 X FOLVWH	X
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V.A.G. GOLF G60 SUPERCHARGED INCLUDE:

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDGTI - VW Golf Gti 8v/G60 alloy vernier pulley FOLVWH - VW Golf hydraulic cam follower set TBP23 - VW Golf 1.5/1.6/1.8 comp.cam belt TBP24 - VW Golf 2.0 competition cam belt

CAMSHAFTS V.A.G. GOLF GTI 1.8 / 2.0 16v

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application		Power Band	Power Increase	Dur Inl	ation Exh	Valve Inl	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC		D TDC earance Exh	Valve Clearance
V16VBP270H	FAST ROAD		2000-6500	12 BHP	264 deg	264 deg	.409" 10.39mm	.428" 10.87mm	22 - 62 62 - 22	110 deg 110 deg	.045" 1.14mm	.063" 1.60mm	HYDRAULIC
V16VBP285H	ULTIMATE ROAD	Not recommended for use with std injection	2500-7000	14 BHP	274 deg	276 deg	.433" 11.00mm	.450" 11.43mm	29 - 65 66 - 30	108 deg 108 deg	.088" 2.24mm	.104" 2.64mm	HYDRAULIC
V16VBP300H	RALLY		3000-7500		294 deg	294 deg	.445" 11.30mm	.445" 11.30mm	41 - 73 73 - 41	106 deg 106 deg	.134" 3.40mm	.134" 3.40mm	HYDRAULIC
V16VBP300M	RALLY	Mechanical followers part no.FOLV16VM req'd	3000-7500		280 deg	280 deg	.440" 11.18mm	.438" 11.13mm	34 - 66 66 - 34	106 deg 106 deg	.120" 3.05mm	.118" 3.00mm	.008" / .20mm .010" / .25mm
V16VBP320M	RACE	Mechanical followers part no.FOLV16VM req'd	4000-8000		290 deg	290 deg	.460" 11.68mm	.458" 11.63mm	43 - 67 69 - 41	102 deg 104 deg	.175" 4.45mm	.163" 4.14mm	.010" / .25mm .012" / .30mm

V.A.G. GOLF / VENTO VR6 12v

Valve lifts quoted assume a rocker ratio of 1:1

VR6BP270H	FAST ROAD		1800-6000	15 BHP	264 deg	264 deg	.428" 10.87mm	.428" 10.87mm	22 - 62 62 - 22	110 deg	.063" 1.60mm	.063" 1.60mm	HYDRAULIC
VR6BP285H	ULTIMATE ROAD	Not recommended for use with std injection	2300-6500		276 deg	276 deg	.450" 11.43mm	.450" 11.43mm	30 - 66 66 - 30	108 deg	.104" 2.64mm	.104" ^{2.64mm}	HYDRAULIC
VR6BP300H	RALLY		2700-7000		294 deg	294 deg	.445" 11.30mm	.445" 11.30mm	41 - 73 73 - 41	106 deg	.134" 3.40mm	.134" _{3.40mm}	HYDRAULIC

V.A.G. 1.8T 20v

Valve lifts quoted assume a rocker ration of 1:1

AUD20TBP270	FAST ROAD	2000-6000	15 BHP	252 deg	246 deg	.325" 8.26mm	.380" 9.66mm	14 - 58 55 - 11	112 deg 112 deg	.021" 0.53mm	.024" _{0.60mm}	HYDRAULIC
AUD20TBP285	ULTIMATE ROAD	2500-6500	20+ BHP	256 deg	252 deg	.342" 8.69mm	.407" 10.34mm	18 - 58 56 - 16	110 deg 110 deg	.024" _{0.60mm}	.021" _{0.53mm}	HYDRAULIC
AUD20TBP300	COMPETITION / TRACK DAY	3500-7500		264 deg	268 deg	.350" ^{8.89mm}	.433" 11.00mm	24 - 60 64 - 24	108 deg 110 deg	.045" 1.13mm	.064" 1.62mm	HYDRAULIC

CAM KITS V.A.G. GOLF GTI 1.8 / 2.0 16v INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube
KBV16V270H / 285H / 300H	Х	FOLVW16H									X

V.A.G. GOLF / VENTO VR6 INCLUDE:

KBVR6270H / 285H / 300H	Х	FOLVR6H							Х
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(Please note on repro option profiles may vary from specs listed)

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDV16V - VW Golf 16v alloy vernier pulley PULSV16V - VW Golf 16v internal vernier sprocket FOLVW16H - VW Golf 16v hydraulic cam follower set FOLVW16M - VW Golf 16v comp.solid cam follower set FOLVR6H - VW Golf VR6 hydraulic cam follower set PULDV20V - VW / AUDI 1.8T 20v alloy vernier pulley TBP40 - Early VAG 1.8T 20v comp.cam belt TBP41 - Late VAG 1.8T 20v comp.cam belt TBP25 - VW Golf 1.8 16v comp.cam belt TBP29 - VW Golf 2.0 16v comp.cam belt

PIPER CAMS

Many other profiles available

CAMSHAFTS V.A.G 5 CYLINDER 10V



Part No.	Application	Power	Power	Duration		Valve Lift		Timing	Full Lift	Lift @ TDC	Valve
Fart NO.	Application	Band	Increase	Inl	Inl Exh Inl		Exh	innig	InI ATDC Exh BTDC	with clearance	Clearance
VB18BP270	FAST ROAD	1500-6000	10 BHP	BHP 276 deg 276 deg	.379" .377" 28 - 68	28 - 68	110 deg 110 deg	.054" .052"	.012" / .30mm		
VD10D1 210	TAST ROAD	1300-0000	10 Dill		210 deg	9.63mm	9.58mm	68 - 28	TTO deg TTO deg	1.36mm 1.31mm	.014" / .35mm
VB18BP285	ULTIMATE ROAD	2000-6500	14 BHP	280 deg	280 deg	.426"	.424"	32 - 68	108 deg 108 deg	.097" .095"	.017" / .43mm
VD10D1 203		2000-0300	14 DHI	200 deg	200 deg	10.81mm	10.76mm	68 - 32	100 deg 100 deg	2.45mm 2.40mm	.019" / .48mm
VB18BP300	RALLY	3000-7000		300 deg	300 deg	.444"	.442"	44 - 76	106 deg 106 deg	.124" .122"	.017" / .43mm
VD10D1 300		3000-7000		500 deg	SOU deg SOU deg		11.22mm	76 - 44	100 deg 100 deg	3.14mm 3.09mm	.019" / .48mm

VOLVO B18

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Dura Ini	t ion Exh	Valve Ini	e Lift Exh	Timing	Full Lift InI ATDC Exh BTDC	Lift @ TDC with clearance Inl Exh	Valve Clearance
VB18BP270	FAST ROAD	1500-6000	10 BHP	276 deg	276 deg	.379"	.377"	28 - 68	110 deg 110 deg	.054" .052"	.012" / .30mm
				_:::::;		9.63mm	9.58mm	68 - 28		1.36mm 1.31mm	.014" / .35mm
VB18BP285	ULTIMATE ROAD	2000-6500	14 BHP	280 deg	280 deg	.426"	.424"	32 - 68	108 deg 108 deg	.097" .095"	.017" / .43mm
VB10B1200	OETIMATE ROAD	2000 0000		200 deg	200 dog	10.81mm	10.76mm	68 - 32	100 deg 100 deg	2.45mm 2.40mm	.019" / .48mm
VB18BP300	RALLY	3000-7000		300 deg	300 deg	.444"	.442"	44 - 76	106 deg 106 deg	.124" .122"	.017" / .43mm
VD10D1 300		3000-7000		JUU deg	SOU deg	11.27mm	11.22mm	76 - 44	100 deg 100 deg	3.14mm 3.09mm	.019" / .48mm
VB18BP320	RACE	3700-7500		314 deg	314 deg	.506"	.504"	53 - 81	104 deg 104 deg	.180" .178"	.016" / .40mm
VD10DF320		3700-7500	3700-7500		314 deg 314 deg		12.81mm	81 - 53	104 deg 104 deg	4.56mm 4.51mm	.018" / .45mm

VOLVO T5

Valve lifts quoted assume a rocker ratio of 1:1

V5BP270H FAST ROAD 1800-6500 15	I5 BHP	240 deg	240 deg	.348" ^{8.84mm}	.348" ^{7.87mm}	10 - 50 50 - 10		.017" .017" 0.22mm 0.22mm	HYDRAULIC
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLVB18 - SET VOLVO B18 CAM FOLLOWERS £63 VDSB18 - SET VOLVO B18 DOUBLE VALVE SPRING KIT INC CAPS & SEATS £147 (Please note on repro option profiles may vary from specs listed)

SC40 - SET VOLVO B18 SPRING CAPS £42 SSB18 - SET VOLVO B18 SPRING SEATS £34

MISCELLANEOUS ITEMS

MITSHLA	MITSUBISHI EVO HD HYDRAULIC ADJUSTERS	SBAR	FORD SOHC SPRAY BAR
MITSADJM	MITSUBISHI EVO MECHANICAL ADJUSTERS	SSCVH	CVH COMBINED SPRING SEATS & SEALS
ASTADJH	ASTRA HYDRAULIC ADJUSTERS	SSDUR	DURATEC SPRING SEATS
BSTUD	FORD SOHC BALL STUDS STD LENGTH	SSB18	VOLVO B18 SPRING SEATS
BSTUD33	FORD SOHC BALL STUDS 33MM LONG	TCMIN	A SERIES DUPLEX TIMING CHAIN
COSWASH	COSWORTH YB 5mm THRUST SPACER	TCOP	OPEL CIH DUPLEX TIMING CHAIN
DISC	TIMING DISC	TCV8	ROVER V8 DUPLEX TIMING CHAIN
LUBE	BOTTLE OF CAM LUBE	TCXF	FORD XFLOW DUPLEX TIMING CHAIN
MINKEY2	A SERIES 2 DEG OFFSET KEY	VSOXE	VAUX/OPEL VALVE STEM OIL SEALS
MINKEY4	A SERIES 4 DEG OFFSET KEY	VSODUR	DURATEC OIL SEALS
MINKEY6	A SERIES 6 DEG OFFSET KEY	VSOOHC	FORD SOHC VALVE STEM OIL SEALS
PLATES	K SERIES VVC CONVERSION PLATE KIT	XFDOW3	FORD XFLOW 3 DEG OFFSET DOWEL
PRODISC	PROFESSIONAL 10" DIA ALLOY T/DISC	XFDOW7	FORD XFLOW 5 DEG OFFSET DOWEL
PULDAUX	FORD SOHC ALLOY AUX DRIVE PULLEY	XFDOW9	FORD XFLOW 7 DEG OFFSET DOWEL





Audi EX925043F FPA123 AUDI TURBO DRAIN GASKET C4247-051 VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET C4246-051 VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET C4541-051 VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G

Austin Rover

C4146-030	AUSTIN MINI 1300CC 73MM BORE .030" MLS HEAD GASKET
C4146-040	AUSTIN MINI 1300CC 73MM BORE.040" MLS HEAD GASKET
C4146-120	AUSTIN MINI 1300cc 73mm BORE 0.120" MLS HEAD GASKET
C4148-040	MG MIDGET 1275CC 74MM BORE.040" MLS HEAD GASKET
C4147-040	MGB 4 CYL 75-80 HEAD 83MM.040" MLS
H0525SP7030S	AUSTIN MINI 1300CC 73.5MM BORE.030" MLS-NO WATER HOLES"
H0525SP3030S	AUSTIN MINI 1300cc 73.5mm BORE 0.030" MLS-WITH WATER HOLES
H0525SP3040S	AUSTIN MINI 1300cc 73.5MM BORE .040" MLS HEAD GASKET
H0525SPA030S	AUSTIN MINI 1300cc 72.50MM BORE .030" THICKNESS
H0525SPA040S	AUSTIN MINI 1300cc 72.50MM BORE .040" MLS HEAD GASKET
H0794SP7040S	MGB 1975-80 83.50MM BORE .040" MLS HEAD GASKET

BMW

C4293-051	BMW 1766/1990cc 72-88 90MM.051" MLS M10 ENGINE
C4308-027	BMW MINI COOPER 78.5MM.027" MLS HEAD GASKET
C4328-120	BMW M50B25/M52B28 85MM BORE MLS HEAD GASKET
C4329-070	BMW B30/B32 Z3/M3 87MM BORE .070" MLS 5LYR H/GASKET
C4348-060	BMW 318/Z3 M42/M44 89-98 85mm BORE 0.060" MLS-5 HEAD GASKET
C4348-080	BMW 318/Z3 M42/M44 89-98 85mm BORE 0.080" MLS-5 HEAD GASGET
H1867SPD051XP	BMW M10 / M12 72-88 90MM BORE .051" MLS FWP
H1867SPG051XP	BMW M10/M12 90.00MM .051" MLS HEAD GASKET

Coventry Climax

C4139-043	COVENTRY CLIMAX 1.2&1.5L 78MM.043" CFM-20 MODEL FWB/E"	
C4267-059	COVENTRY CLIMAX 2L FPF 82MM.059" CFM-20 HEAD GASKET"	
C4229-043	COVENTRY CLIMAX 2L OB 80MM.043" CFM-20 MODEL FWA/B/E"	

FIAT/LANCIA DELTA 85MM BORE.040" GASKET

Fiat C4124-040

Ford

C4218-040	FORD PINTO SOHC 2L 92.5MM.040" MLS STANDARD HEAD GASKET
C4279-027	FORD FOCUS/CONTOUR/ZX2 87MM.027" MLS 2L-ZETEC HEAD GASKET"
C4280-040	FORD FOCUS ZX2 87MM
C4138-040	COSWORTH 4 VALVE FVC/FVA .040" MLS 87mm BORE
C4350-051	FORD COSWORTH YB 92.5MM MLS.051" MLS PERFORMANCE GROUP A
C4350-070	FORD COSWORTH YB 92.5M MLS.070" GPA MLS-5 LAYER HEAD"
C4494-040	COSWORTH FORD BDG 2L .040" MLS HEAD GASKET
C5756-051	FORD 1.6&1.8L CVH 83MM.051" MLS HEAD GASKET
C5756-070	FORD 1.6 & 1.8 CVH 83MM
H1267SP1040S	FORD PINTO SOHC 2L 94.5MM.040" MLS STANDARD HEAD GASKET
C4248	FORD/COSWORTH YB CASE KIT.060" AFM
VC051060AFM	FORD/COSWORTH YB VALVE COVER.060" AFM
H2389030S	FORD DURATECH 2.3L 90MM.030" MLS HEAD GASKET
H2264SP6030S	FORD DURATECH 2.3L 90MM.030" MLS W/12MM STUD HOLES"
C4174	FORD/COS/LOTUS BDA CASE KITBELT DRIVEN DOHC 16V
C4271	FORD COS/LOTUS FVC.FVA CASE KIT
WP126060AFM	FORD/COS/LOTUS 4 CYL THERMO
WP156060AFM	FORD PINTO/PB THERMOSTAT GASKET .060" AFM

TC003060AFM	FORD/COS/LOTUS 4 CYL TIMING COVER .060" AFM
C4491	FORD/LOTUS TWIN CAM CASE KIT
C4350-080	COSWORTH YB 92.5mm BORE .080" MLS GPA
C4353-064	FORD / COSWORTH BDA 4-BOLT EXH GASKET .064 AM
C4354-064	FORD / COSWORTH BDA 3-BOLT EXH GASKET .064 AM
H2389050S	FORD DURATEC 2.0/2.3 90MM BORE .050" MLS
H2389SP2030S	FORD DURATEC 86mm BORE .030" MLS HEAD GASKET
H2389SP3060S	FORD DURATEC 90.00MM BORE .060" MLS-5 LAYER HG 12MM STUDS
OP083060AFM	FORD/COS/LOTUS BDA OIL PUMP .060" AFM GASKET
H1908SP2140S	FORD 1.6/1.8 CVH 84MM BORE .140" MLS-5 HEAD GASKET
EC570060AFM	FORD COS 4 CYL REAR COVER .060" AFM GASKET
EX1165064AM	SWEDISH DURATEC TURBO .064" AM EXHAUST GASKET
EX785SP3094C	FORD DURATEC COPPER EXHAUST GASKET .094"
Honda	
C4250-051	HONDA CRV 97 - 02 85mm BORE 0.051" MLS HEAD GASKET B20 MOTOR
C4255-030	HONDA PRELUDE 87MM '92-96'2.2LTR VTEC .030"MLS HEAD H22"
C8702-027	HON CBR1000RR 04-07 75MM BORE.027" MLS HEAD GASKET
C8499	HON CBR1100XX 97-03 81MM BORE.030" MLS HEAD GASKET
C8736	HON CBR600RR 07 68.5MM BORE.027" MLS HEAD GASKET (STOCK)
C7826	HONDA TRX400/XR440 '96-'05 89MM
C4313-030	HONDA K20 / K24 89mm BORE 0.030" MLS HEAD GASKET
C8702-018	HONDA CBR1000RR 07-07 75MM BORE 0.018" MLS
C8736-018	HONDA CBR600RR 07-10 68.5MM BORE .018 MLS HG
Jaguar	
H1763SP1040XP	JAG 3.8L 6 CYL 89MM BORE.040" MLS HEAD GASKET
H1763SP1051XP	JAG 3.8L 6 CYL 89MM BORE.051" MLS HEAD GASKET
H1762SP2040XP	JAG 3.4L 6 CYL 85MM BORE.040" MLS HEAD GASKET
H1762SP3040XP	JAG 3.4L 6 CYL 84MM BORE.040" MLS HEAD GASKET
H1763SP1040XP	JAG 3.8L 6 CYL 89MM BORE.040" MLS HEAD GASKET
VC053060AFM	JAG 3.4/3.8/4.2L CAM COVER.060" TRIM TO FIT ALL MODELS
WP132060AFM	JAG 3.4/3.8L THERMOSTAT COVER.060" AFM GASKET
C4127-040	JAG 4.2L 6 CYL 68- BORE 3.690" 0.040" MLS W/BOLT HOLE POCKET
C4128-040	JAG 4.2L 6 CYL 68- BORE 3.670" 0.040" MLS W/BOLT HOLE POCKET
C4220-059	JAG 4.2L 6 CYL 68- 93MM BORE 0.059"CFM-20 HEAD GASKET
C4306-060	JAG 3.4L 6 CYL 89MM BORE .060" MLS-5 HEAD GASKET
C4338-059	JAG 4.2L SERIES-1 65-67 93MM BORE 0.059"CFM-20
IR315060AFM	JAGUAR 3.8/4.2 STR PORT AFM INTAKE GASKET
IR326060AFM	JAGUAR 3.4/3.8 B TYPE HEAD AFM INTAKE GASKET
Kawasaki	· · · ·
C8570	KAW ZX-9R 00-03 77MM BORE.027" MLS HEAD GASKET
C8460-018	KAW ZX-14 06-UP 84MM BORE.018" MLS HEAD GASKET

Lancia

C4124-040	FIAT/LANCIA DELTA 85MM BORE.040" GASKET
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Lotus

C4133-030	LOTUS 4 CYL 85MM BORE 0.030" MLS HEAD GASKET
C4133-040	LOTUS 4 CYL 85MM BORE 0.040" MLS HEAD GASKET
C4142-030	LOTUS 4 CYL 86MM BORE 0.030" MLS HEAD GASKET
C4142-040	LOTUS 4 CYL HEAD GASKET 86MM.040 MLS
C4103-040	LOTUS 4 CYL HEAD GASKET 83MM.040 MLS
H0464SP5040XP	LOTUS TWIN CAM 84MM HEAD.040" XP W/NONEMBOSSED CENTER"
C4271	FORD COS/LOTUS FVC.FVA CASE KIT
WP126060AFM	FORD/COS/LOTUS 4 CYL THERMO
TC003060AFM	FORD/COS/LOTUS 4 CYL TIMING COVER .060" AFM



PIPER CAMS

Lotus	
C4491	FORD/LOTUS TWIN CAM CASE KIT
C4355-064	LOTUS T/C EXH 1.3" DIA .064" ARMOUR 400
Mitsubishi	
C4233-051	MIT 4G63/T 85.5MM .051"MLS"ECLIPS,GALANT,LANCER THRU EVO3
C4234-051	MITSUBISHI EVO 86MM BORE .051" MLS HEAD GASKET
C4156-051	MIT LANCER EVO4-8 86MM BORE.051" MLS 4G63 MOTOR 96-UP"
C4243-051	MIT 6G72/6G72D4 V-6 93MM.051" MLS DIAMANTE, 3000GT
Nissan	
C4130-040	NIS SR20DE/DET 88.5MM FWD.040 MLS W/ NO EXTRA OIL HOLES
C4283-051	NISS SR20 DE/DET S14 88.5mm BORE 0.051" MLS W/BOTH ADD. OIL
C4283-066	NISS SR20DE/DET S14 88.5mm BORE 0.066" MLS-5 BOTH ADD OIL HO
C4318-051	NIS RB-25 6 CYL 87MM.051" MLS HEAD GASKET
C4318-060	NIS RB-25 6 CYL 87mm BORE 0.060" MLS HEAD GASKET
C4320-051	NIS RB-26 6 CYL 87MM.051" MLS HEAD GASKET
SCRM29255	NISSAN VG30DE 90-96 REAR MAIN SEAL
SCTC12400	NISSAN KA24DE 91-98 FRONT CRANK SEAL
PRO2018B	NISSAN CA18DET 89-93 BOTTOM END GASKET KIT
PRO2018T	NISSAN CA18DET 89-93 84MM TOP END GASKET KIT
C4480-051	NISSAN CA18 DOHC 84-87 85MM BORE SKY/SUN/200SX .051"
H1796SPC045S	NISSAN SR20DE/DET 90mm BORE EPPLOGO 0.045" MLS W/BOTH ADD OI
Peugeot	
C4227-051	PEUGEOT 405 Mi16 86.5MM BORE 0.051" MLS
C4228-051	PEUGEOT 405 Mi16 88MM BORE 0.051" MLS
C4225-051	PEUG P405 M-16 84MM.051" MLS HEAD GASKET
C4493-060	PEUGEOT 106 16V 97-05 79MM.060" MLS-5 1.6L TU5J4 MOTOR"
Porsche	
C4272-040	PORSCHE 944 2.5L 100.5MM.040" MLS HEAD GASKET
C4149-050	PORSCHE 924 HD GSKT 88MM.050" COPPER HEAD GASKET
Renault	
C4519-030	RENAULT CLIO16V 1.8/2.0 84.5MM.030" MLS HEAD F4P / F4R MOTOR"
C4540-051	RENAULT CLIO 16V 1.8/2.0 84MM.051" MLS '89-99' F7P/F7R MOTR"
C4518-030	RENAULT CLIO 16v F4P/F4R 1.8/2.0 83mm BORE 0.030" MLS HEAD G
Rover	
C4367-040	ROV V8 89MM BORE.040" MLS 14 BOLT HEAD 70-93"
C4366-040	ROV V8 89MM BORE.040" MLS 10 BOLT HEAD 94-UP"
Suzuki	
C8302	SUZ GSX-R600 06-07 68MM BORE.027" MLS HEAD GASKET
C8302-018	SUZ GSX-R600 06-07 68MM BORE.018" MLS HEAD GASKET
C8717	SUZ GSX-R750 06-07 70MM.027" MLS HEAD GASKET
C8717-018	SUZ GSX-R750 06-07 70MM BORE.018" MLS HEAD GASKET
C8214	SUZ GSXR750/1000 '00-'08 75MM.030" MLS HEAD GASKET
C8214-018	SUZ GSXR750/1000 '00-'08 75MM.018" MLS HEAD GASKET
C8656	SUZ GSX1300R BUSA 99-UP 81MM.030" MLS HEAD GASKET
C8656-018	SUZ GSX1300R BUSA 99-UP 81MM.018" MLS HEAD GASKET
C8660	SUZ GSX1300R BUSA 99-UP 82MM.030" MLS HEAD GASKET
C8657	SUZ GSX1300R BUSA 99-UP 83MM.030" MLS HEAD GASKET
C8657-018	SUZ GSX1300R BUSA 99-UP 83MM.018" MLS HEAD GASKET
C8658	SUZ GSX1300R BUSA 99-UP 84MM.030" MLS HEAD GASKET

More Cometic gaskets are being added all of the time, see our website for the latest applications.

C8659	SUZ GSX1300R BUSA 99-UP 85MM.030" MLS HEAD GASKET
C8659-018	SUZ GSX1300R BUSA 99-UP 85MM.018" MLS HEAD GASKET
C8585	SUZ GSX1300R BUSA 99-UP BASE.010" S/S GASKET 1299-1360CC"
C8742	SUZ GSX-R600 06-08 750 06-08ENGINE CASE REBUILD KIT
C8752AFM	SUZ GSXR1000 2007-08 AFMENGINE CASE REBUILD KIT
C8587AFM	SUZ GSX1300R BUSA 99-UPAFM ENGINE CASE REBUILD KIT
EC945032AFM	SUZ GSXR750/1000 '04-'05 CAM.032" AFM CHAIN TENSIONER GSKT
OP269060AFM	SUZ GSX-R1000 07-08 OIL PAN.060" AFM GASKET
C8772-018	SUZUKI GSXR1000K9 - L2 74.5MM BORE MLS GASKETS
Subaru	
C4261-045	SUB EJ20GN TURBO 93MM.045" MLS GSK-DOHC 16V TURBO"
C4263-051	SUB EJ22E TURBO 98MM.051" MLS GSK SOHC 16V TURBO
Toyota	
C4314-040	TOYOTA 3S-GE/3S-GTE 87MM 87-97.040" MLS HEAD GASKET
C4276-060	TOYOTA 2ZZ SUPRA 93- 87MM BORE MLS HEAD GASKET
C4278-066	TOYOTA SUPRA '87-92' 84MM BORE
C4278-080	TOYOTA SUPRA 7MGTE 87-92 84mm BORE 0.080" MLS-5 HEAD GASKET
C4170-040	TOY 4AG-GE 81MM BORE.040" MLS HEAD GASKET
C4166-040	TOY 4AG-GE 83MM.040" MLS HEAD GASKET
Toyota	
C4275-051	TOYOTA SUPRA '87-92' 86MM.051" MLS 7MGTE MOTOR
C4413	TOY 4AGE 88-91 COMP KITW/O HEAD GASKET
Vauxhall	
C4129-059	VAUXHALL/OPEL 2.3 4 CYL 99MM BORE .059" CFM HG
C4257-051	VAUXHALL/OPEL 16 V 1.6L 82MM.051" MLS HEAD GASKET
C4216-051	VAUXHALL 16 VALVE 2L 88MM.051" MLS HEAD GASKET
C4216-070	VAUXHALL 16 VALVE 2L 88MM.070" MLS 5-LAYER GASKET"
C4216-070 C5768-040	VAUXHALL 16 VALVE 2L 88MM.070" MLS 5-LAYER GASKET" GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR"
C5768-040 Volkswagen	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR"
C5768-040 Volkswagen C4247-051	GM ECOTEC 2.2L DOHC 87MM.040° MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051* MLS HEAD GASKET
C5768-040 Volkswagen	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR"
C5768-040 Volkswagen C4247-051 C4246-051	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET
C5768-040 Volkswagen C4247-051 C4246-051 C4541-051	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G
C5768-040 Volkswagen C4247-051 C4246-051 C4541-051 Volvo	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET
C5768-040 Volkswagen C4247-051 C4246-051 C4246-051 Volvo Volvo C4289-045	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051* MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051* MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051* MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045* MLS HEAD GASKET 1968-UP*
C5768-040 Volkswagen C4247-051 C4247-051 C4240-051 C4541-051 Volvo C4289-045 C4288-045	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP" VOLVO B20A/E/F MOTOR 90MM BORE .045" MLS HGASKET
C5768-040 Volkswagen C4247-051 C4246-051 C4541-051 Volvo C4289-045 C4288-045 C4288-045 C4287-045	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP" VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET 1968-0P VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-66"
C5768-040 Volkswagen C4247-051 C4246-051 C4541-051 Volvo C4289-045 C4288-045 C4288-045 C4288-045 C4287-045 H1840SP3040S	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP" VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET 1968-0P VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-66"
C5768-040 Volkswagen C4247-051 C4246-051 C4541-051 Volvo C4289-045 C4288-045 C4288-045 C4288-045 C4288-045 H1840SP3040S Yamaha	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR' VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051' MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045' MLS HEAD GASKET 1968-UP" VOLVO B20A/E/F MOTOR 92MM.045' MLS HEAD GASKET 1968-UP" VOLVO B20A/E/F MOTOR 90MM BORE 0.45' MLS HIGASKET VOLVO B18A/B/D MOTOR 86MM.045' MLS HEAD GASKET 1961-68' VOLVO B18A/B/D MOTOR 89MM BORE.040'MLS HG
C5768-040 Volkswagen C4247-051 C4246-051 C4246-051 C4246-051 C4248-045 C4289-045 C4288-045 C4287-045 H1840SP3040S Yamaha EC1152032AFM	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM 045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 90MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HG VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HG VALVO B18A/B/D MOTOR 89MM BORE.040"MLS HG
C5768-040 Volkswagen C4247-051 C4247-051 C4240-051 C4541-051 Volvo C4289-045 C4289-045 C4289-045 C4287-045 H18405P3040S Yamaha EC1152032AFM C6285	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 99MM BORE.045" MLS HGASKET VOLVO B18A/B/D MOTOR 99MM BORE.045" MLS HGASKET VOLVO B18A/B/D MOTOR 99MM BORE.045" MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 99MM BORE.040"MLS HGASKET 1961-68"
C5768-040 Volkswagen C4247-051 C4247-051 C4247-051 C4247-051 C4247-051 Volvo C4289-045 C4288-045 C42	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM 045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE.045" MLS HGASKET VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 86MM.045" ALS HEAD GASKET 1961-68"
C5768-040 Volkswagen C4247-051 C4246-051 C4541-051 Volvo C4289-045 C4288-045 C4288-045 C4288-045 EC1152032AFM C8285 C8146 C8666	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051' MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 80MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 80MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 80MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 80MM.045" MLS HEAD GASKET YAM YZF-R6 06-07 CAM CHAIN.032" AFM TENSIONER GASKET YAM FJ1100/1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED YAM R1 '04-05 78MM HEAD.018" MLS
C5768-040 Volkswagen C4247-051 C4247-051 C4247-051 C4541-051 Volvo C4289-045 C4289-045 C4287-045 H18405P3040S Yamaha EC1152032AFM C3285 C3146 C36856 C6710	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 0.59MM BORE.040"MLS HGASKET 1961-68" VAM FJ1100,1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM FJ1100/200 ENG. CASE KITLEGEND APPROVED YAM YZF-R6 06-06 68MM BORE.027" MLS HEAD GASKET
C5768-040 Volkswagen C4247-051 C4247-051 C4247-051 C4247-051 Volvo C4289-045 C4289-045 C4288-045 C4710 C4285 C4710 C4710 C4720 C470 C4720 C470 C470 C470 C470 C470 C470 C470 C47	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM 045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET VOLVO B18A/B/D MOTOR 96MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 96MM 0.45" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 98MM BORE.040"MLS HG YAM YZF-R6 06-07 CAM CHAIN.032" AFM TENSIONER GASKET YAM FJ1100,1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED YAM R1 '04-05 78MM HEAD.018" MLS YAM YZF-R6 06-08 EMM BORE.02" MLS HEAD GASKET YAM YZF-R6 06-08 EMINE CASEREBUILD KIT
C5768-040 Volkswagen C4247-051 C4247-051 C4246-051 C428-051 C4289-045 C4288-045 C4288-045 C4287-045 H1840SP3040S Yamaha EC1152032AFM C8285 C8146 C8856 C8146 C8686 C8710 C68720 OP201032AFM	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051' MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET 1961-68* VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68* VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HG YAM YZF-R6 06-07 CAM CHAIN 032" AFM TENSIONER GASKET YAM FJ1100/1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED YAM YZF-R6 06-06 68MM BORE.027" MLS HEAD GASKET YAM YZF-R6 06-07 0L PAN.032" AFM GASKET YAM YZF-R6 06-06 68MM BORE.027" MLS HEAD GASKET YAM YZF-R6 06-07 0L PAN.032" AFM GASKET
C5768-040 Volkswagen C4247-051 C4247-051 C4247-051 C4541-051 Volvo C4289-045 C4289-045 C4287-045 H18405P3040S Yamaha EC1152032AFM C3285 C3146 C36868 C6710 C6720 OP201032AFM C6612AFM	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 98MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 98MM BORE.045" MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 98MM BORE.040"MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 98MM BORE.040"MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 98MM BORE.040"MLS HGA GASKET 1961-68" VOLVO B18A/B/D MOTOR 98MM BORE.040"MLS HGA GASKET 1961-68" VOLVO B18A/B/D MOTOR 98MM BORE.040"MLS HGA GASKET YAM FJ1100/1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM FJ1100/1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM FJ1100/1200 LEGEND APPROVED YAM R1 '04-05 78MM HEAD.018" MLS YAM YZF-R6 06-08 ENGINE CASE REBULD KIT YAM YZF-R6 06-08 ENGINE CASE REBULD KIT YAM YZF-R6 06-07 CIL PAN.032" AFM GASKET
C5768-040 Volkswagen C4247-051 C4247-051 C4246-051 C4541-051 Volvo C4289-045 C4289-045 C4288-045 C4287-045 H18405P3040S Yamaha EC1152032AFM C8285 C8146 C8285 C8146 C8666 C8710 C8720 OP201032AFM C86623	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 86MM BORE 0.40"MLS HG VAM FJ1100,1200 EG.CASE KITLEGEND APPROVED VAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED VAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED VAM YZF-R6 06-08 ENGINE CASEREBUILD KIT VAM YZF-R6 06-09 ENGINE CASE REBUILD KIT VAM YZF600.01 PAPAOVE CASE REBUILD VAMAHA R6 0.30 50 ENGINE CASE REBUILD KIT
C5768-040 Volkswagen C4247-051 C4247-051 C4246-051 C4541-051 Volvo C4289-045 C4288-045 C4288-045 C4287-045 H1840SP3040S Yamaha EC1152032AFM C8285 C8146 C8686 C8720 OP201032AFM C8612AFM C8683 C8668 C8688	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051' MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET 1961-68* VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68* VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HG YAM YZF-R6 06-07 CAM CHAIN.032" AFM TENSIONER GASKET YAM FJ1100.1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM YZF-R6 06-07 GAM CHAIN.032" AFM TENSIONER GASKET YAM YZF-R6 06-07 CAM CHAIN.032" AFM GASKET YAM YZF-R6 06-07 OIL PAN.032" AFM GASKET </td
C5768-040 Volkswagen C4247-051 C4247-051 C4247-051 C426-051 C4541-051 Volvo C4289-045 C4289-045 C4287-045 H18405P3040S Yamaha EC1152032AFM C8285 C81146 C8858 C8710 C8720 OP201032AFM C8612AFM C8612AFM C8688 EH42258030S	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR" VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16v 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP* VOLVO B20A/E/F MOTOR 90MM BORE .045" MLS HGASKET VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HGASKET 1961-68" VOLVO B18A/B/D MOTOR 89MM BORE.040"MLS HGASKET 1940 FJ1100/1200 ENG. CASE KITLEGEND APPROVED VAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED VAM YZF-R6 06-08 6MM BORE.02" MLS HEAD GASKET VAM YZF-R6 06-08 6MM BORE.02" MLS HEAD GASKET VAM YZF-R6 06-08 ENGINE CASE REBUILD KIT VAM YZF-600.71 LPAN.032" AFM GASKET VAM YZF-600.71 LPAN.034" AFM GASKET VAM YZF-600.71 LPAN.034" AFM GASKET VAMAHA R1 04-06 TON LPAN.040 E.030 LS HEAD GASKET VAMAHA R1 04-06 TON LPAN.040 LO MIT VAMAHA R1 04-06 TON L
C5768-040 Volkswagen C4247-051 C4247-051 C4247-051 C4247-051 Volvo C4289-045 C4289-045 C4288-045 C4288-045 C4287-045 H18405P3040S Yamaha EC1152032AFM C8285 C8146 C8285 C8146 C8686 C8710 C8720 OP201032AFM C8683 C8688 H22580305 C8710-18	GM ECOTEC 2.2L DOHC 87MM.040' MLS HEAD-L61/L42 MOTOR* VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET VW/AUDI 2.0L 16V 2005+ BWA/BPY 83.5mm BORE 0.051" MLS HEAD G VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET VOLVO B20A/E/F MOTOR 90MM BORE 0.45" MLS HEAD GASKET VOLVO B18A/B/D MOTOR 86MM 0.45" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 86MM 0.45" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 86MM 0.45" MLS HEAD GASKET 1961-68" VOLVO B18A/B/D MOTOR 86MM DORE 0.45" MLS HEAD GASKET YAM FJ1100,1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S YAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED YAM R1 '04-05 T8MM HEAD.018' MLS YAM 'YZF-R6 06-08 EMGINE CASE REBUILD KIT YAM YZF-R6 06-08 EMGINE CASE REBUILD KIT YAM YZF-R6 05-05 EMGINE CASE REBUILD KIT YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 ENGINE CASE REBUILD KIT YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 ENGINE CASE REBUILD KIT YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET YAMAHA R1 '04-06 T8MIN BORE 0.30 MLS HEAD GASKET

CAM FOLLOWERS

	LUWERJ
PART NO.	DESCRIPTION
ALFA FOLAR16V	ALFA ROMEO 2.0 16v HYD
AUSTIN FOLAHR	HEALEY 3000
BMC FOLMIN FOLMINR FOLB FOLB2	A SERIES A SERIES RACE (with oil drain hole) POST '71 B SERIES 18v PRE '71 B SERIES
FORD FOLBDA FOLCOSH FOLCOSMGPA FOLCVH FOLST170 FOLFN FOLFW FOLOHC FOLV6 FOLV6G FOLZETAH FOLZETAM FOLZETAM31 FOLCOSMLS	BDA COSWORTH YB 16V HYD COSWORTH YB 16V MECH CVH HYD FORD FOCUS ST170 & ZETEC R SOLID TAPPET 30.00MM PRE XFLOW NARROW STEM XFLOW 711M WIDE STEM OHC 1.6/2.0 V6 3.0 ESSEX V6 2.3/2.8/2.9 GERMAN ZETEC E HYD ZETEC E HYD ZETEC E MECH ZETEC 31mm MECH FOLLOWERS COSWORTH YB LONG STEM MECH
PEUGEOT FOLVTSH FOLVTSM FOLMi16H FOLGTI6H FOLGTI6M FOLP13 FOLP16 FOLP206H FOLP206M	106 GTI / SAXO VTS 16V HYD 106 GTI / SAXO VTS 16V MECH 1.9 / 2.0 MI16 16V HYD 1.9 / 2.0 MI16 16V MECH 306 GTI6 HYD 306 GTI6 MECH 205/106 1.3/1.4 205/309 1.6/1.9 206 GTI HYD 206 GTI MECH

PART NO.DESCRIPTIONRENAULT
FOLCLIOH
FOLCLIOMCLIO 16V HYD
CLIO 16V MECHROVER

FOLKH	K SERIES HYD
FOLKM	K SERIES MECH
FOLKV6H	K SERIES V6 HYD
FOLTH	T SERIES HYD
FOLTM	T SERIES MECH
FOLV8	ROVER V8 HYD
FOLV8M	ROVER V8 MECH

TRIUMPH

 FOLT
 1.2/1.3/1.5
 4 CYL

 FOLT6
 2.0/2.5
 6 CYL

 FOLTR4
 2.0
 /2.2

VAG

 FOLAUD5
 AUDI 5 CYL 10V HYD

 FOLVWH
 1.3/1.4/1.6/1.8/2.0 HYD

 FOLVW16H
 16V HYD

 FOLVW16M
 16V MECH

VAUXHALL

FOLOP	1.6/1.9/2.0 CIH MEC H
FOLAST	ASTRA 1.3/1.8 FWD
FOLASTM	ASTRA FWD WITH ADJ HOLES
FOLAST16H	ASTRA 2.0 16V HYD
FOLAST16M	ASTRA 2.0 16V MECH
FOLCOR	CORSA/TIGRA 1.4/1.6 16V HYD
FOLCORM	CORSA/TIGRA 1.4/1.6 16V MECH

VOLVO

FOLVB18 B18 VOLVO

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VERNIER PULLEYS (*Please see note)



PART NO.	DESCRIPTION	MATERIAL	PART NO.	DESCRIPTION	MATERIAL
BMC PULSMIN PULDMIN PULSB PULSBS	A SERIES DUPLEX KIT A SERIES DUPLEX KIT B SERIES DUPLEX KIT B SERIES CAM SPROCKET	STEEL ALLOY STEEL STEEL	PEUGEOT PULDVTR PULDVTS PULDMI16 PULD205 PULD205	SAXO VTR PR SAXO VTS 16V PRMI16 106 1.4 & 205 1.3/1.6/1.9 gti 306 1.9 TURBO DIESEL	ALLOY ALLOY ALLOY ALLOY ALLOY
PULDX19	X19/128 1300/1500 SOHC	ALLOY ALLOY	PULDXSI	2.0 8V Xsi PR 306 GTI6 16V PR 206 GTI	ALLOY ALLOY ALLOY
PULDFTC PULDFIRE FORD	PR 1.6/1.8/2.0 TWIN CAM FIAT FIRE	ALLOY ALLOY	PORSCHE PULDPOR	PORSCHE 924	ALLOY
PULDOHC PULDCVH PULSXF	CVH 1.3/1.6 XFLOW DUPLEX KIT	ALLOY ALLOY STEEL ALLOY	RENAULT PULSR5 PULDCLIO	REN 5 GT TURBO PR CLIO 16V	STEEL ALLOY
PULDZETA PULSDUR PULDFOC	PR ZETEC 16V PR DURATEC 16V PR FOCUS 16V	ALLOY STEEL ALLOY ALLOY	ROVER PULSV8 PULDK PULDT	V8 DUPLEX KIT 3.5/3.9 only PR K SERIES PR T SERIES	STEEL ALLOY ALLOY
HONDA	PR VTEC 1.6 16V	ALLOY	TOYOTA PULD3SG	PR TOYOTA 3SGE/3SGTE	ALLOY
JAGUAR	SET JAG V6	STEEL	VAG PULDAUD PULDGTI PULDV16V	AUDI 4 CYL 8V/ 5CYL 10V GOLF 1.6/1.8/2.0 & G60/ AUDI 80 GOLF 16V EXTERNAL PULLEY	ALLOY ALLOY ALLOY
hyundai Puldhyn	HYUNDAI ACCENT	ALLOY	PULSV16V		STEEL ALLOY
	I PR MITSUBISHI EVO 4/5/6/7/8 MITSUBISHI EVO 9 EXH ONLY		VAUXHALL PULSOP PULDA13 PULDGTE	1.6/1./2.0 C.I.H DUPLEX KIT 1.3 ASTRA / NOVA 1.4/1.6 GTE (ROUND TOOTH)	STEEL ALLOY ALLOY
		STEEL	PULDA18 PULDA20 PULDA20B	1.6/2.0 ASTRA/ CAVALIER PR C20 XE 2.0 16V UP TO '93 PR C20 XE 2.0 16V '93 ON - LOW NOISE	ALLOY ALLOY ALLOY
** - These pu	ulleys do not have sensor pick-ups,	therefore are only	PULDCOR**	PR CORSA 16V	ALLOY

** - These pulleys do not have sensor pick-ups, therefore are only
 I recommended for vehicles wth an ecu, triggered from else where
 * The default colour is BLACK please add R for RED or B for BLUE to the part number

VALVE SPRINGS & SPRING KITS

PART	NO. APPL	ICATION		CAPS	SEATS	SEALS	TYPE	RATE	NOMINAL I.D.	NOMINAL O.D.	INSTALLED LENGTH	CRUSH HEIGHT
AUSTIN												
VDSAH	6 HEAL	EY 3000					DOUBLE	286 lb	18.80 mm	33.00 mm	39.00 mm	21.92 mm
BMC												
VDSMIN							DOUBLE	223 lb	16.00 mm	29.10 mm	35.00 mm	22.02 mm
VDSMIN							DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm
VSSB VDSB2		RIES 18v post 71					SINGLE DOUBLE	240 lb	21.80 mm 18.60 mm	30.00 mm	38.00 mm	23.21 mm 23.78 mm
	B SEF						DOUBLE	228 lb	10.00 11111	33.20 mm	38.00 mm	23.70 11111
	EN / PEUGEOT										07.50	
VSSVTF		VTR (ROLLER TYPE)					SINGLE	233 lb	20.00mm	28.00mm	37.50 mm	24.80 mm
VSSVTF VDSVTS		VTR (NON - ROLLER TYPE)	KIT	SC18	YES		SINGLE DOUBLE	276 lb 259 lb	20.10mm	28.30mm	40.74 mm	25.01 mm
VSSP13		VTS 16V EOT 1360cc	RI I	5010	TES		SINGLE	259 lb 240 lb	13.50mm 21.80 mm	25.10mm 30.00 mm	37.20 mm 38.50 mm	20.46 mm 23.21 mm
VDSP16		EOT 1.6/1.9 RACE	KIT	SC35	YES		DOUBLE	240 lb 286 lb	21.80 mm 18.80 mm	33.00 mm	39.00 mm	23.21 mm 21.92 mm
VDSP10		EOT 306 GTI 6	KIT	SC35 SC14	TE3		DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm
VDSI 30		EOT MI 16	KIT	SC26			DOUBLE	275 lb	15.60 mm	28.50 mm	37.00 mm	22.27 mm
VSSP20		EOT 206 GTI - SUIT HYD LIFTERS	KIT	SC27			SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm
VSSP20		EOT 206 GTI - SUIT MEC LIFTERS	KIT	SC28			SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm
FIAT												
VDSFT		CAM 8V					DOUBLE	278 lb	18.05 mm	31.65 mm	37.10 mm	20.30 mm
VDSPU		O GT TURBO					DOUBLE	278 lb	18.05 mm	31.65 mm	37.10 mm	20.30 mm
FORD										000		20100
VSSNF\	/6 V6 2.5	5/3.0 NOBLE-ST MONDEO	KIT	SC54			SINGLE	242 lb	18.08 mm	25.60 mm	34.65 mm	23.50 mm
VSSF	XFLO'	W					SINGLE	246 lb	20.10 mm	27.90 mm	34.00 mm	21.94 mm
VDSF2	XFLO'	W	KIT	SC9		YES	DOUBLE	264 lb	18.35 mm	31.70 mm	32.10 mm	20.00 mm
VDSFR	-	W RACE	KIT	SC9			DOUBLE	278 lb	18.05 mm	31.65 mm	36.83 mm	20.30 mm
VDSFBF		W RACE	KIT	SC10			DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm
VSSOH							SINGLE	240 lb	22.30 mm	30.50 mm	36.80 mm	22.26 mm
VDSOH		RACE					DOUBLE	276 lb	18.05 mm	31.65 mm	37.50 mm	20.30 mm
VSSCVH			KIT		YES	YES	SINGLE	275 lb	23.3 mm	32.00 mm	37.10 mm	23.06 mm
VDSCVI		FOOFY	KIT	SC34	YES	YES	DOUBLE	290 lb	18.35 mm	32.45 mm	37.10 mm	25.00 mm
VSSV6		ESSEX					SINGLE	232 lb	23.95 mm	32.45 mm	38.85 mm	23.16 mm
VSSV60 VSSZET		3 COLOGNE C 16V 1.6/1.8/2.0 HYD					SINGLE SINGLE	200 lb 242 lb	25.20 mm 18.08 mm	33.90 mm 25.60 mm	40.00 mm 37.20 mm	25.88 mm 23.50 mm
VDSCO		VORTH 16V					DOUBLE	242 lb 312 lb	15.20 mm	25.60 mm 27.70 mm	34.00 mm	23.50 mm 18.64 mm
VSSDU			KIT	SC20B			SINGLE	242 lb	18.08 mm	25.6 mm	38.00 mm	23.50 mm
VDSDU			KIT	SC20B SC22	YES	YES	DOUBLE	297 lb	15.50 mm	28.50 mm	38.00 mm	22.27 mm
VSSFO		IS 1.6 16V	KIT	SC24	. 20	. 20	SINGLE	207lb	16.00 mm	20.30 mm 22.74 mm	38.00 mm	24.00 mm
VSSZET		IS 2.0 16V	KIT	SC37			SINGLE	171lb	18.00 mm	25.00 mm	34.00 mm	24.00 mm
VSSST1		IS ST170	KIT	SC37			SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm
VSSRS2		00 16v					SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm

VALVE SPRINGS & SPRING KITS (CONT)

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PART NO.	APPLICATION		CAPS	SEATS SEALS	TYPE	RATE	NOMINAL I.D	NOMINAL O.D	INSTALLED LENGTH	CRUSH HEIGHT
HONDA VDSVTEC	VTEC 1.6 16V				DOUBLE	263 lb	16.70 mm	29.10 mm	34.00 mm	19.98 mm
MITSUBISHI VSSMITS	EVO	KIT	SC21		SINGLE	276 lb	20.10 mm	28.30 mm	41.00 mm	25.01mm
RENAULT VSSR5 VDSMEG	5 GT TURBO MEGANE / CLIO 16V	KIT	SC29		SINGLE DOUBLE	162 lb 301 lb	21.70 mm 16.00 mm	29.10 mm 30.50 mm	34.00 mm 38.50 mm	22.03 mm 22.26 mm
ROVER VSSV8 VTSV8 VSSK VDSK VDSKV6	ROVER V8 ROVER V8 K SERIES 16V K SERIES 16V K SERIES V6 24V K SERIES V6 24V				SINGLE TRIPLE SINGLE DOUBLE SINGLE DOUBLE	246lb 282 lb 242 lb 258 lb 242 lb 258 lb	22.25 mm 16.30 mm 18.08 mm 13.50 mm 18.08 mm 13.50mm	30.75 mm 31.05 mm 25.60 mm 25.10 mm 25.60 mm 25.10mm	40.40 mm 38.00 mm 37.20 mm 37.20 mm 37.20 mm 37.20 mm	25.29 mm 21.59 mm 23.50 mm 20.46 mm 23.50 mm 20.46 mm
TOYOTA VSS3SG VDS3SG	TOYOTA 2.0 16V 3SGE & 3SGTE TOYOTA 2.0 16V 3SGE & 3SGTE				SINGLE DOUBLE	197 lb 280 lb	20.60 mm 15.20 mm	27.70 mm 27.70 mm	32.50 mm 34.00 mm	18.64 mm 18.64 mm
TRIUMPH VSSTR4 VSSTR6 VDSTR6	1500 SPITFIRE TR6 TR6				SINGLE SINGLE DOUBLE	246 lb 246 lb 277 lb	20.10 mm 20.10 mm 20.19 mm	27.90 mm 27.90 mm 29.10 mm	35.00 mm 35.00 mm 35.00 mm	21.94 mm 21.94 mm 22.02 mm
VAUXHALL VSSAST13 VSSAST18 VSSAST16V VDSAST16V VSSOP VDSCOR VSSCOR VSSCVXR	ASTRA / NOVA 1.3 ASTRA / CAV 1.6 / 1.8 ASTRA 2.0 16V C20XE / LET ASTRA 2.0 16V C20XE / LET C.I.H. 1.6 / 1.9 / 2.0 CORSA 16V X14XE / X16XE CORSA 16V X14XE / X16XE CORSA 16V VXR Z16LER	KIT KIT KIT KIT	SC17 SC16 SC63 SC64	YES YES YES	SINGLE SINGLE DOUBLE SINGLE DOUBLE SINGLE SINGLE	197 lb 160 lb 246 lb 267 lb 251 lb 267 lb 246 lb 207 lb	20.60 mm 25.00 mm 20.10 mm 15.20 mm 25.00 mm 15.20 mm 20.10 mm 16.00 mm	27.70 mm 33.20 mm 27.90 mm 27.70 mm 34.00 mm 27.70 mm 27.90 mm 22.74 mm	32.50 mm 38.00 mm 34.00 mm 34.00 mm 40.00 mm 34.00 mm 36.30 mm 37.00 mm	18.64 mm 23.78 mm 21.94 mm 18.64 mm 26.55 mm 18.64 mm 21.65 mm 24.00 mm
VOLVO VDSB18	VOLVO B18	KIT	SC40	YES	DOUBLE	312 lb	15.20 mm	27.70 mm	33.00 mm	18.64 mm

COMPETITION CAM BELTS

PART NO.

CITROEN / PE	EUGEOT	
TBP10	AX 1.0/1.1	205 1.0/1.1/1.3 RALLY
TBP11	AX 1.4 '88-91	205/309 1.4 '85-93
TBP13	BX GTI 1.6/1.9 to 01-'92	205 / 309 GTI 1.6/1.9 to 01-'92
TBP15	BX 1.9 MI16 '87-93	309/405 1.9 MI16
TBP11	SAXO 1.4	106/306 1.4 '91-04 >Mtr 3666765
TBP12	SAXO 1.6 VTR '96-04	106 Xsi 1.4 & RALLYE/306 1.6 & 106
TBP39	SAXO VTS 1.6 16V	106 GTI 16V
TBP14	BX/XANTIA 1.6/1.8/2.0 8	/ 205/309/306 GTI 1.6/1.9 '92-99
TBP27	XANTIA 2.0 16V	306 2.0 MI16 - (150HP)
TBP28	XANTIA 2.0 16V (132HP)	605 2.0 16V
TBP11	XSARA 1.4	206/307 1.4 '98-on >Mtr 3666765
TBP39	XSARA 1.6 16V	1007 1.6 16V
TBP28	XSARA 1.8/2.0 16V	306/406 1.8/2.0 16V (132hp)
TBP28	XSARA 2.0 16V (163HP)	306 2.0 16V GTI6 (163HP)
TBP39	C2/C3/C4 1.6 16V	206/207/307 1.6 16V
FIAT		
TBP1	FIAT UNO 1.1/1.3/1.3 TU	RBO & SOHC 1.5
TBP2	FIAT UNO 1.4/1.4 TURBO	0 & TIPO 1.3
TBP3	FIAT 2.0 TWIN CAM	
FORD		
TBP4	FORD CVH 1.4/1.6	
TBP5	FORD CVH 1.1/1.3	
TBP6	FORD SOHC 1.6 NOT SI	ERRA 1.6 E.MAX
TBP7	FORD SOHC 1.8/2.0	
TBP8	FORD ZETEC 16V 1.6/1.8	
TBP30	FORD FOCUS/MONDEO	
TBP30	FORD FOCUS 2.0 16V S	-
TBP31	FORD FIESTA/FOCUS/PI	JMA 1.25/1.4/1.6 16v
TBP37	BDA	
HONDA		
TBP32	HONDA 1.6 VTEC B16 '8	39-98
MITCUDICUI		

MITSUBISHI

TBP34	MITSUBISHI ECLIPSE/GALANT 2.0 16V
TBP34	MITSUBISHI EVO 4 / 5 / 6 / 7

	PIPER CAMS
PART NO.	DESCRIPTION
RENAULT	
TBP16	RENAULT 19 / CLIO 16V 1.8 /SPYDER / WILLIAMS 2.0 16V
ROVER	
TBP17	ROVER K SERIES 1.4/1.6/1.8 16V (MANUAL TENSIONER)
TBP33	ROVER K SERIES 1.8 16V 'Nov 98-on (AUTOMATIC TENSIONER)
SUBARU	
TBP26	SUBARU IMPREZA 2.0 TURBO UP TO '98
TBP26	SUBARU LEGACY 2.0 TURBO 16V
VAUXHALL	
TBP18	VAUX 1.3 1980 ON
TBP19	VAUX 1.4/1.6 8 VALVE UP TO 91 (104 TOOTH)
TBP20	VAUX 1.2/1.4/1.6 8 VALVE '91-00 (111 TOOTH)
TBP21	VAUX ASTRA/CAV 1.6/1.8/2.0 J SERIES
TBP42	VAUX CORSA B / TIGRA X14XE X16XE 16V '93 -00
TBP43	VAUX CORSA C Z14XE-Z18XE-Vectra X18XE
TBP22	VAUX ASTRA/CAV C20XE UP TO 1992
TBP35	VAUX ASTRA/CAV C20XE C20LET '93-97
TBP36	
TBP44	VAUX CORSA VXR 1.6 16V TURBO Z16LER 2006 -
TBP45	VAUX ASTRA VXR 2.0 16V TURBO Z20LER 2004 - 09
VAG	
TBP24	AUDI 80 2.0 & GOLF 2.0 8V (115HP)
TBP25	AUDI 80 2.0 16V & CABRIOLET/COUPE 2.0 16V
TBP25	AUDI A6 2.0 16V '94-97
TBP40	AUDI A4/A6 1.8/1.8T 20V 10/94 - 09/01
TBP41	AUDI TT 1.8/1.8T 20V '98 - 07/06
TBP23	SEAT IBIZA/TOLEDO/CORDOBA 1.6/1.8 '93-99
TBP25 TBP29	SEAT IBIZA/TOLEDO/CORDOBA 16V (136HP) SEAT IBIZA/TOLEDO/CORDOBA 16V (150HP)
TBP41	SEAT IBIZA TOLEDO/CORDOBA 160 (150HP) SEAT IBIZA 1.8T 20V INC CUPRA 2004 ON
TBP23	VW GOLF/PASSAT 1.5, 1.6 & 1.8 GTI & G60
TBP25	VW GOLF/SCIROCCO/JETTA 1.8 16V
TBP29	VW GOLF 2.0 16V 93-96
TBP41	VW GOLF 2.0 10V 33-30 VW GOLF 1.8/1.8T 20V 10/97 - 09/03
TBP40	VW PASSAT 1.8/1.8T 20V 11/96 - 08/00
TBP46	VW POLO 1.4 16V AFH 04/96 - 12/99 100 BHP
TBP47	VW LUPO AVY & POLO ARC 1.6 16V 125 BHP

VALVE SPRING CAPS - STEEL

PART NO DESCRIPTION

BMC

SC1	A SERIES	(Suit VDSMINR springs)
CITROEN SC18 SC30	SAXO VTS 16v SAXO VTR	(Suit VDSVTS springs) (Suit VSSVTR springs)
FORD SC7 SC33 SC34 SC8A SC8B SC9 SC10 SC11 SC20B SC22 SC24	COSWORTH COSWORTH LONG VALVE CVH OHC OHC XFLOW XFLOW ZETEC 16V SINGLE GROOVE VALVE DURATEC 16V DURATEC 16V FOCUS 1.6 16V	(Suit VDSCOS springs) (Suit VDSCVH2 springs) (Suit VSSOHC springs) (Suit VDSOHCR springs) (Suit VDSF2 / VDSFR springs) (Suit VDSFBPR springs) (Suit VSSZETA / VSSZETA34 springs) (Suit VSSDUR springs) (Suit VDSDUR springs) (Suit VSSFOC springs)
SC37	FOCUS ST170	(Suit VSSST170 springs)
HONDA SC12	VTEC	(Suit VDSVTEC springs)
MITSUBISH	l	
SC21 SC47 NISSAN	EVO 1-9 EVO 10	(Suit VSSMITS springs) (Suit VSSMITS10 springs)
SC36	MICRA 16V	(Suit std springs)
PEUGEOT		
SC14 SC26	306 16v MI16	(Suit VDSP306 springs) (Suit VDSMI16 springs)

306 16v	(Suit VDSP306 springs)
MI16	(Suit VDSMI16 springs)
206 GTI	(As SC28 expect to suit hyd buckets)
206 GTI	(Suit VSSP206 springs)
205 GTI	(Suit VDSP16 springs)
	MI16 206 GTI 206 GTI

PART NO	DESCRIPTION	
RENAULT		
SC29	MEGANE / CLIO	(Suit VDSMEG springs)
ROVER		
SC3	K SERIES	(Suit VSSK & VDSK springs)
SC19	K SERIES	(As SC3 except to suit hyd buckets)
SC23	KV6	(Suit VSSKV6 & VDSKV6 springs)
SC25	KV6	(As SC23 except to suit hyd buckets)
VAUXHALL		
SC16	CORSA 16v	(Suit VDSCOR springs)
SC17	ASTRA 2.0 16v	(Suit VDSAST16V springs)
SC58	ECOTEC 16v	(Suit VDSECO springs)
SC63	CORSA 16v	(Suit VSSCOR springs)
SC64	CORSA 16v VXR	(Suit VSSCVXR springs)
VOLVO		
SC40	B18	(Suit VDSB18 springs)

TOP HAT SHIMS

SHIM TO SUIT 6 MM STEM VA	ALVE 3 MM THICK
SHIM TO SUIT 6 MM STEM VA	ALVE 4 MM THICK
SHIM TO SUIT 6 MM STEM VA	ALVE 5 MM THICK
SHIM TO SUIT 6 MM STEM VA	ALVE 6 MM THICK
SHIM TO SUIT 7 MM STEM VA	ALVE 3 MM THICK
SHIM TO SUIT 7 MM STEM VA	ALVE 4 MM THICK
SHIM TO SUIT 7 MM STEM VA	ALVE 5 MM THICK
SHIM TO SUIT 7 MM STEM VA	ALVE 6 MM THICK
SHIM TO SUIT 8 MM STEM VA	ALVE 3 MM THICK
SHIM TO SUIT 8 MM STEM VA	ALVE 4 MM THICK
SHIM TO SUIT 8 MM STEM VA	ALVE 5 MM THICK
SHIM TO SUIT 8 MM STEM VA	ALVE 6 MM THICK
	SHIM TO SUIT 6 MM STEM V/ SHIM TO SUIT 6 MM STEM V/ SHIM TO SUIT 6 MM STEM V/ SHIM TO SUIT 7 MM STEM V/ SHIM TO SUIT 7 MM STEM V/ SHIM TO SUIT 7 MM STEM V/ SHIM TO SUIT 8 MM STEM V/ SHIM TO SUIT 8 MM STEM V/ SHIM TO SUIT 8 MM STEM V/

BISCUIT SHIMS

SHIM11535	SHIM DIAMETER 11.50MM X 3.50MM THICK
SHIM11540	SHIM DIAMETER 11.50MM X 4.00MM THICK
SHIM11545	SHIM DIAMETER 11.50MM X 4.50MM THICK
SHIM11550	SHIM DIAMETER 11.50MM X 5.00MM THICK

	HAFTS HONDA							DIA	ER CAMS
Part No.	Application		Duration @ 1mm	Cam Lift Inl Exh	Valve Lift Inl Exh	Timing	Full Lift InI ATDC Exh BTDC	Lift @ TDC with clearance Inl Exh	Valve Clearance
PH5	CBR600 FM - FW 1991 - 1998	TRACK DAY / RACE	241 deg 240 deg	.367" .345" 9.32mm 8.76mm	.359" .335" 9.11mm 8.51mm	18 - 42 44 - 16	102 deg 104 deg	.114" .084" 2.90mm 2.13mm	.008" / .20mm .010" / .25mm
PH6	CBR600 FX - FY 1999 - 2000	TRACK DAY / RACE	248 deg 234 deg	240" 246"	.332" .306" 8.43mm 7.77mm	20 - 48 41 - 13	104 deg 104 deg	440" 000"	.008" / .20mm .010" / .25mm
PH7	CBR600 RR 2003 -	SUPERSPORT	255 deg 235 deg	225" 202"	.327" .283" 8.31mm 7.19mm	24 - 52 45 - 11	104 deg 107 deg	400 074	.008" / .20mm .010" / .25mm
PH14	CBR600 RR 2003 -	SUPERSPORT	253 deg 235 deg	225" 202"	.327" .281" 8.31mm 7.19mm	21 - 51 43 - 13	105 deg 105 deg	.112" .078" 2.85mm 1.98mm	.008" / .20mm .010" / .25mm
PH10	CBR600 RR 2003 -	RACE	250 deg 242 deg	262" 220"	.355" .320" 9.01mm 8.13mm	23 - 47 45 - 17	102 deg 104 deg	.127" .097" 3.22mm 2.46mm	.008" / .20mm .010" / .25mm
PH1	CBR900RR 893cc N - 1992 - 2001	TRACK DAY / RACE	244 deg 244 deg	.325" .302" 8.26mm 7.67mm	.319" .294" 8.10mm 7.47mm	19 - 45 48 - 16	103 deg 106 deg	.095" .090" 2.41mm 2.28mm	.006" / .15mm .008" / .20mm
PH2	CBR900RR 954cc 2002 - 2003	TRACK DAY / RACE	237 deg 228 deg	277" 240"	.369" .330" 9.37mm 8.38mm	17 - 41 38 - 10	102 deg 104 deg	110" 077"	.008" / .20mm .010" / .25mm
PH3	CBR900RR 954cc 2002 - 2003	RACE	245 deg 242 deg	202" 200"	.384" .370" 9.75mm 9.40mm	21 - 45 45 - 17	102 deg 104 deg	101" 100"	.008" / .20mm .010" / .25mm
PH8	CBR1000 RR 2004 ON	TRACK DAY / RACE	248 deg 240 deg	.391" .375" 9.93mm 9.52mm	.383" .365" 9.72mm 9.27mm	22 - 46 44 - 16	102 deg 104 deg	.128" .104" 3.25mm 2.64mm	.008" / .20mm .010" / .25mm
PH9	CBR1000 RR 2004 ON	TRACK DAY / RACE	250 deg 242 deg	262" 246"	.355" .336" 9.01mm 8.53mm	23 - 47 45 - 17	102 deg 104 deg	107" 105"	.008" / .20mm .010" / .25mm
PH11	CBR1000 RR 2004 ON	TRACK DAY / RACE	255 deg 248 deg	262" 246"	.355" .336" 9.01mm 8.53mm	26 - 50 48 - 20	102 deg 104 deg	101" 111"	.008" / .20mm .010" / .25mm
PH4	CBR1100 XX 1997 -	STREET / KIT CAR	241 deg 240 deg	.367" .345" 9.32mm 8.76mm	.359" .335" 9.11mm 8.51mm	16 - 44 46 - 14	104 deg 106 deg	.105" .076" 2.67mm 1.93mm	

KAWASAKI

Valve lifts quoted assume a rocker ratio of 1:1

PK1	ZX6 R F1 - J2 1995 - 2002	TRACK DAY / RACE	244 deg 233 deg	.380" 9.65mm	.350" 8.89mm	.373" 9.47mm	.342" 8.69mm	20 - 44 41 - 13	102 deg 104 deg	.118" 3.00mm	.090" 2.28mm	.007" / .18mm .008" / .20mm
PK1	ZX6 R 636 A1 2002	TRACK DAY / RACE	244 deg 233 deg	.380" 9.65mm	.350" 8.89mm	.373" 9.47mm	.342" 8.69mm	20 - 44 41 - 13	102 deg 104 deg	.118" 3.00mm	.090" 2.28mm	.007" / .18mm .008" / .20mm
PK2	ZX6 R 636 2003	TRACK DAY / RACE	249 deg 245 deg	276"	.353" 8.97mm	.368" 9.35mm	.343" 8.71mm	22 - 46 47 - 19	102 deg 104 deg	107"	.106" 2.69mm	.008" / .20mm .010" / .25mm
PK4	ZX7 R RR 1996 - 2002	TRACK DAY / RACE	245 deg 230 deg	.392" 9.96mm	.312" 7.92mm	.384" ^{9.75mm}	.302" 7.67mm	21 - 45 39 - 11	102 deg 104 deg	, .121" 3.07mm	.076" 2.01mm	.008" / .20mm .010" / .25mm
PK10	ZX7 R R-RR 1996 - 2002	RACE	245 deg 242 deg	.392" 9.96mm	.380" _{9.65mm}	.384" _{9.75mm}	.370" _{9.40mm}	21 - 45 45 - 17	102 deg 104 deg	, .121" 3.07mm	.108" 2.74mm	.008" / .20mm .010" / .25mm
PK5	ZX9 R 1994-97 B	TRACK DAY / ROAD	263 deg 258 deg	.274" 6.96mm	.264" 6.70mm	.347" 8.81mm	.333" 8.46mm	41 - 71 68 - 38	105 deg 105 deg	, .174 " 4.42mm	.164" 4.17mm	.008" / .20mm .010" / .25mm
PK6	ZX9 R 1998 - 2002	TRACK DAY / RACE	245 deg 242 deg	.392" _{9.93mm}	.380" 9.65mm	.384" ^{9.75mm}	.370" _{9.40mm}	21 - 45 45 - 17	102 deg 104 deg	, .121" 3.07mm	.108" 2.74mm	.008" / .20mm .010" / .25mm
PK12	ZX9 R 2000 - 2002	TRACK DAY / RACE	251 deg 251 deg	.392" 9.93mm	.366" 9.30mm	.384" _{9.75mm}	.352" ^{8.94mm}	22 - 48 51 - 19	103 deg 106 deg	.128" 3.25mm	.099" 2.51mm	.008" / .20mm .010" / .25mm
PK7	ZX12 R 2000 -	RACE	259 deg 251 deg	.410" 10.41mm	.394" 10.01mm	.400" 10.16mm	.384" ^{9.75mm}	21 - 57 53 - 17	108 deg 108 deg	.132" 3.35mm	.108" 2.74mm	.010" / .25mm .010" / .25mm
PK9	ZX12 R 2000 -	STREET	250 deg 251 deg	.378" 9.60mm	.362" 9.19mm	.370" 9.40mm	.352" 8.94mm	17 - 53 53 - 17	108 deg 108 deg	.119" 3.02mm	.092" 2.34mm	.008" / .20mm .010" /.25mm

CARACILATTO

SUZUKI

Valve lifts quoted assume a rocker ratio of 1:1 *blank includes sprockets



Valve lifts quoted assume a rocker ratio of 1:1		*blank includes sprockets	5											LII UMINU
PS1	GSX R600 WV-WY 1996 - 2000	TRACK DAY / RACE	243 deg	218 deg	.343" 8.71mm	.314" 7.98mm	.335" 8.51mm	.280" 7.11mm	20 - 44 32 - 43	102 deg	104 deg	.111" 2.82mm	.055" 1.40mm	.008" / .20mm .010" / .35mm
PS2	GSX R600 K1 - 4	TRACK DAY / RACE	250 deg	230 deg	.350" 8.89mm	.285" 7.24mm	.342" 8.69mm	.304" 7.72mm	23 - 47 41 - 9	102 deg	106 deg	.126" 3.20mm	.071" 1.88mm	.008" / .20mm .010" / .35mm
PS3	GSX R600 K1 - 3	SUPERSPORT	248 deg	237 deg	.337" 8.56mm	.284" 7.21mm	.330" 8.38mm	.278" 7.06mm	22 - 46 39 - 19	102 deg	100 deg	.126" 3.20mm	.103" 2.62mm	.006" / .15mm .008" / .20mm
PS16	GSX R600 K6-7	SUPERSPORT	263 deg	235 deg	.339" 8.61mm	.314" 7.96mm	.333" 8.46mm	.304" 7.72mm	26 - 56 47 - 8.6	105 deg	109 deg	.125" 3.18mm	.067" 1.70mm	.006" / .15mm .010" / .25mm
PS22	GSX R600 K6-7	SUPERSPORT	252 deg	235 deg	.338" 8.81mm	.314" 7.96mm	.330" 8.38mm	.304" 7.72mm	21 - 51 47 - 8.6	105 deg	109 deg	.117" 2.97mm	.067" 1.70mm	.008" / .20mm .010" / .25mm
PS4	GSX R750 WW - WX 1998 - 1999	RACE	248 deg	238 deg	.376" 9.55mm	.355" ^{9.02mm}	.368" 9.35mm	.330" 8.38mm	22 - 46 45 - 13	102 deg	106 deg	.127" 3.23mm	.085" 2.16mm	.008" / .20mm .012" / .30mm
PS5	GSX R750 K1-3	RACE	251 deg	237 deg	.392" _{9.96mm}	.284" 7.21mm	.384" ^{9.75mm}	.345" ^{8.76mm}	23 - 47 44 - 12	102 deg	106 deg	.132" 3.35mm	.086" 2.18mm	.008" / .20mm .010" / .25mm
PS10	GSX R750 K	RACE	248 deg	237 deg	.336" 8.53mm	.284" 7.21mm	.330" 8.37mm	.276" 7.01mm	22 - 46 39 - 19	102 deg	100 deg	.126" 3.21mm	.103" 2.62mm	.006" / .15mm .008" / .20mm
PS6	GSX R1000 K1-3	TRACK DAY / RACE	248 deg	238 deg	.376" 9.55mm	.312" 7.92mm	.368" 9.35mm	.330" 8.38mm	20 - 48 45 - 13	104 deg	106 deg	.118" 3.00mm	.087" 2.21mm	.008" / .20mm .010" / .25mm
PS15	GSX R1000 K2	TRACK DAY / RACE	250 deg	230 deg	.350" 8.89mm	.355" 9.02mm	.342" 8.68mm	.302" 7.67mm	20 - 50 40 - 10	105 deg	105 deg	.115" 2.92mm	.075" 1.90mm	.008" / .20mm .010" / .25mm
PS7	GSX R1000 K3	RACE	251 deg	237 deg	.392" ^{9.96mm}	.338" 8.58mm	.384" ^{9.75mm}	.345" 8.76mm	23 - 47 42 - 14	102 deg	104 deg	.132" 3.35mm	.093" 2.36mm	.008" / .20mm .010" / .25mm
PS11	GSX R1000 K1 - 4	RACE	255 deg	240 deg	.405" 10.28mm	.350" 8.89mm	.397" 10.08mm	.328" 8.33mm	23 - 53 45 - 15	105 deg	105 deg	.125" 3.18mm	.093" 2.36mm	.008" / .20mm .010" / .25mm
PS12	GSX R1000 K1 - 4	RACE	245 deg	242 deg	.392" _{9.96mm}	.380" ^{9.65mm}	.384" ^{9.75mm}	.370" ^{9.40mm}	21 - 45 45 - 17	105 deg	105 deg	.108" 2.74mm	.104" ^{2.64mm}	.008" / .20mm .010" / .25mm
PS14	GSX R1000 K1 - 4	RACE	250 deg	226 deg	.378" ^{9.60mm}	.326" 8.28mm	.370" _{9.40mm}	.316" 8.03mm	20 - 50 38 - 8	105 deg	105 deg	.119" 3.02mm	.069" 1.75mm	.008" / .20mm .010" / .25mm
PS17	GSX R1000 K5 - 8	RACE	256 deg	248 deg	.400" 10.16mm	.350" 8.89mm	.394" 10.00mm	.342" 8.69mm	23 - 53 49 - 19	105 deg	105 deg	.136" 3.46mm	.110" 2.79mm	.006" / .15mm .008" / .20mm
PS23	GSX R1000 K7 - 8	RACE	257 deg	256 deg	.417" 10.59mm	.362" 9.19mm	.409" 10.39mm	.352" 8.94mm	24 - 54 58 - 18	105 deg	110 deg	.134" 3.40mm	.102" 2.59mm	.008" / .20mm .010" / .25mm
PS24	GSX R1000 K7 - 8	RACE	257 deg	256 deg	.425" 10.80mm	.372" 9.45mm	.417" 10.60mm	.362" 9.19mm	24 - 54 58 - 18	105 deg	110 deg	.126" 3.20mm	.099" 2.51mm	.008" / .20mm .010" / .25mm
PS8	GSX R1300 1999 -	STREET / KIT CAR	249 deg	245 deg	.376" 9.55mm	.353" 8.97mm	.368" 9.35mm	.343" 8.71mm	22 - 46 47 - 19	102 deg	104 deg	.127" 3.23mm	.106" ^{2.69mm}	.008" / .20mm .010" / .25mm
PS21	GSX R1300 1999 -	GRASS / KIT CAR SPEC	241 deg	224 deg	.367" ^{9.32mm}	.320" 8.13mm	.359" 9.11mm	.310 ^{7.83mm}	16 - 44 38- 5.9	104 deg	106 deg	.105" ^{2.67mm}	0.060" 1.52mm	.008" / .20mm .010" / .25mm
PS19	GSX R1300 1999 -	GRASS SPEC	256 deg	237 deg	.400" 10.16mm	.355" 9.02mm	.394" 10.00mm	.345" 8.76mm	23 - 53 43 - 13	105 deg	105 deg	.136" 3.46mm	.090" 2.28mm	.006" / .15mm .010" / .25mm
PS20	GSX R1300 1999 -	GRASS SPEC	241 deg	240 deg	.367" ^{9.32mm}	.345" 8.76mm	.359" 9.11mm	.335" 8.51mm	16 - 44 46 - 14	104 deg	106 deg	.105" 2.67mm	.076" 1.93mm	.008" / .20mm .010" / .25mm

CAMSHAFTS YAMAHA

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PY5	YZF R6 1999 - 2002	RACE	252 deg	234 deg	.340" 8.64mm	.316" 8.03mm	.334" 8.48mm	.306" 7.77mm	24 - 48 41 - 13	102 deg	104 deg	.117" 2.97mm	.083" 2.11mm	.006" / .15mm .010" / .25mm
PY6	YZF R6 INJ 2003	RACE	252 deg	234 deg	.340"	.316"	.334"	.306"	24 - 48 47 - 7	102 deg	110 deg	.117"	.063"	.006" / .15mm
PY7	YZF R6 INJ 2003	SUPERSPORT	256 deg	240 deg	8.64mm	8.03mm	8.48mm .327"	7.77mm .291"	23 - 53	105 deg	110 deg	2.97mm .122"	1.60mm .073"	.010" / .25mm .008" / .20mm
PY10	YZF R6 INJ 2006 - 9	SUPERSPORT	-		8.51mm .346"	7.59mm .315"	8.31mm .340"	7.39mm	50 - 10 21 - 51	-		3.10mm .102"	1.85mm	.010" / .25mm .006" / .15mm
FIIU	12F K0 INS 2000 - 9	SOFERSFORT	ZOT deg	236 deg	8.79mm	8.00mm	8.64mm	7.80mm	47 - 9	105 deg 1	109 deg	2.59mm	1.63mm	.008" / .20mm
PY12	YZF R6 INJ 2006 - 9	SUPERSPORT	256 deg	242 deg	.347" 8.79mm	.315" 8.00mm	.339" 8.61mm	.305" 7.75mm	18 - 58 51 - 11	110 deg	110 deg	.100" 2.54mm	.066" 1.68mm	.008" / .20mm .010" / .25mm
PY1 B	FZS 1000 FAZER - 2003	STREET	242 deg	234 deg	.316" ^{8.03mm}	.316" 8.03mm	.310" 7.87mm	.308" ^{7.82mm}	13 - 49 43 - 11	108 deg	106 deg	.081" 2.06mm	.078" 1.98mm	.006" / .15mm .008" / .20mm
PY1 A / B / C	YZF R1 1998 - 2002	STREET	242 deg	234 deg	.316" 8.03mm	.316" 8.03mm	.310" 7.87mm	.308" 7.82mm	13 - 49 43 - 11	108 deg	106 deg	.081" 2.06mm	.078" 1.98mm	.006" / .15mm .008" / .20mm
PY2 A / B / C	YZF R1 1998 - 2002	TRACK DAY / RACE	252 deg	242 deg	.340" 8.64mm	.330" 8.38mm	.334" 8.48mm	.322" 8.18mm	24 - 48 51 - 11	102 deg	110 deg	.117" 2.97mm	.078" 1.98mm	.006" / .15mm .008" / .20mm
PY3C	YZF R1 2003	RACE	252 deg	248 deg	.340" 8.64mm	.339" 8.61mm	.334" 8.48mm	.330" 8.38mm	24 - 48 54 - 14	102 deg	110 deg	.117" 2.97mm	.090" 2.29mm	.006" / .15mm .008" / .20mm
PY4C	YZF R1 2003	RACE	248 deg	248 deg	.314"	.340"	.304"	.330"	22 - 46 54 - 14	102 deg	110 deg	.109"	.090"	.006" / .15mm
PY8	YZF R1 INJ 2004 - 06	STREET / TRACK DAY	248 deg	242 deg	7.98mm .314"	8.64mm	7.72mm .304"	8.38mm	22 - 46	102 deg	108 deg	2.77mm .109"	2.29mm	.008" / .20mm .008" / .20mm
					7.98mm	8.38mm	7.72mm .337"	8.13mm	<u>49 - 13</u> 21 - 51			2.77mm .107"	2.11mm .093"	.010" /.25mm .008" / .20mm
PY9	YZF R1 INJ 2004 - 06	RACE / TORQUE	251 deg	242 deg	8.76mm	8.38mm	8.56mm	8.13mm	46 - 16	105 deg	105 deg	2.72mm	2.36mm	.010" / .25mm
PY15	YZF R1 INJ 2004 - 06	RACE TOP END	251 deg	251 deg	.345" 8.76mm	.327" 8.30mm	.337" 8.56mm	.317" 8.05mm	21 - 51 46 - 16	105 deg	105 deg	.107" 2.72mm	.107" 2.72mm	.008" / .20mm .010" / .25mm
PY11	YZF R1 2007 MUST USE KIT SPRING	RACE	261 deg	257 deg	.390" 9.90mm	- .355" ^{9.01mm}	.385" 9.77mm	.348" 8.83mm	21 - 61 59 - 19	110 deg	110 deg	.106" 2.70mm	.098" 2.49mm	.005" /.127mm .007" /.178mm
PY14	YZF R1 2008 BSB SPEC	RACE	254 deg	250 deg	.369"	.328"	.375"	.338"	17 - 57	110 deg	110 deg	.096"	.085"	.006" /.15mm
PY16	YZF R1 2009 - STD V/S & PISTON	RACE	260 dea	254 deg	9.37mm .374"	8.33mm .339"	9.37mm .368"	8.33mm .331"	55 - 15 20 - 60	110 dea	110 deg	2.45mm	2.17mm .091"	.008" /.20mm .006" /.15mm
-			200 ueg	2 9	9.50mm	9.09MM	9.35mm	8.41mm	57 - 17 17.5 - 57.5	5	3	2.57mm	2.31mm	.008" /.20mm .006" /.15mm
PY17	YZF R1 2009 - MUST USE KIT SPRING	RACE	255 deg	250 deg	.410" 10.41mm	.358" 8.38mm	.404" 10.26mm	.350" 8.89mm	55 - 15	110 deg	110 deg	.120" 3.05mm	.093" 2.37mm	.008" /.20mm
PY18	YZF R1 2008 - MUST USE KIT SPRING	RACE	255 deg 251 d	251 deg	.417"	.378"	.411"	.370"	17.5 - 57.5	110 deg 110	110 deg	.108"	.097"	.006" /.15mm
					10.60mm	9.60mm	10.44mm	9.40mm	54.5 - 15.5			2.37mm	2.46mm	.008" /.20mm

MOTORCYCLE ADJUSTABLE SPROCKETS

PULMYR62 YZFR6 2006-2008

MECHANICAL CAM CHAIN ADJUSTER

PART NO. HONDA	DESCRIPTION	MATERIAL	PART NO SUZUKI	. DESCRIPTION	MATERIAL
PULMH6F23	CBR600 F2 / 3 1991 - 1998 SPROCKET	STEEL		* GSXR600K1-3 GSXR750K1-3 GSXR1000K1-2	ALLOY
PULMH6F4	CBR600 F4 1999 - 2002 SPROCKET	STEEL	ST1000-3*	GSXR600K4-8 GSXR750K4-8 GSXR1000K3-8	ALLOY
PULMH6RR	CBR600 RR 2003 On SPROCKET	STEEL	ST1300GX	* GSXR1300 HAYABUSA -07	ALLOY
PULMH900	CBR900 RR 1992 - 1999 SPROCKET	STEEL	ST1300-08	* GSXR1300 HAYABUSA 2008	ALLOY
PULMH929	CBR900 RR 2000 On SPROCKET	STEEL			
PULMH1100	CBR1100BB 1996 On SPROCKET	STEEL	* INCLUDE	S NEW GASKET	
SUZUKI			YAMAHA		
PULMS750	GSX R600 / R750 1998 - 1999 SPROCKET KIT	STEEL	YTR6	YZFR6 2006-	ALLOY
PULMS7502	GSX R750 K 2000 On SPROCKET KIT	STEEL	YTR1	YZFR1 2004 - 2006	ALLOY
PULMS1300	GSX R1300 1999 On SPROCKET KIT	STEEL	YT1000	YZFR6 1999 - 2005 YZFR1 1998 - 2003	ALLOY
YAMAHA				NEW MODELS ALWAYS BEING ADDED	
PULMYR1	YZF R1 1998-03 SPROCKET	STEEL			
PULMYR6	YZF R6 1999-05 SPROCKET	STEEL			

STEEL

MOTORCYCLE SHIMS

7.50MM DIAMETER FROM 1.50MM TO 3.50MM THICKNESS AVAILABLE 9.50MM DIAMETER FROM 1.50MM TO 3.50MM THICKNESS AVAILABLE

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<u>Notes</u>
PIPER CAMS