

PIPER CAMS

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

James Chalkley: Sales Manager

John Crabb: Technical Director

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Web site : www.pipercams.co.uk**

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 where 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.

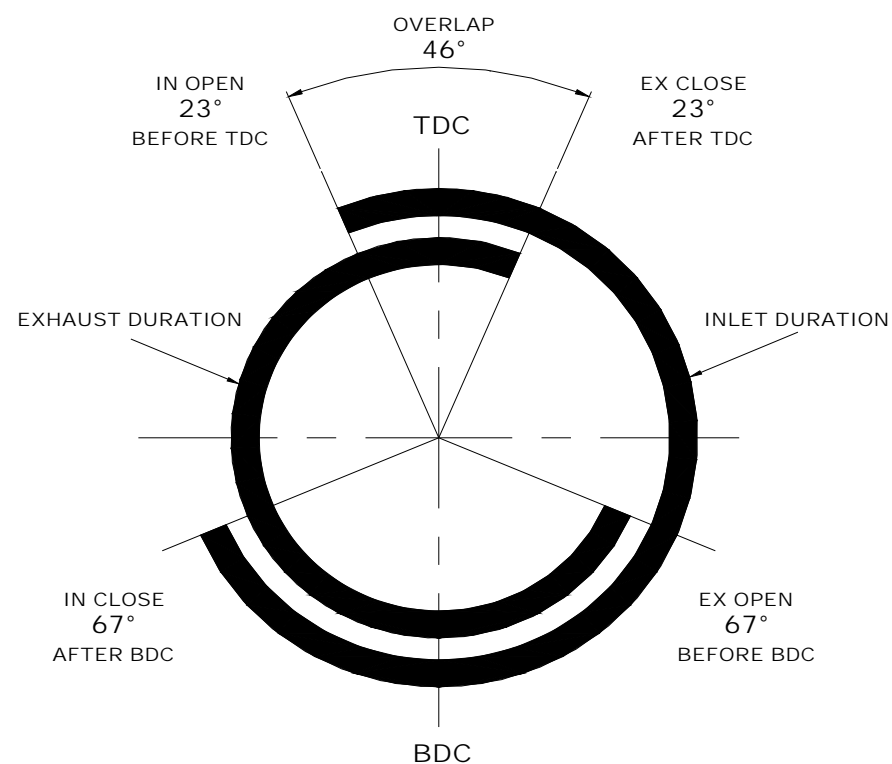
Cam Timing:

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.



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.

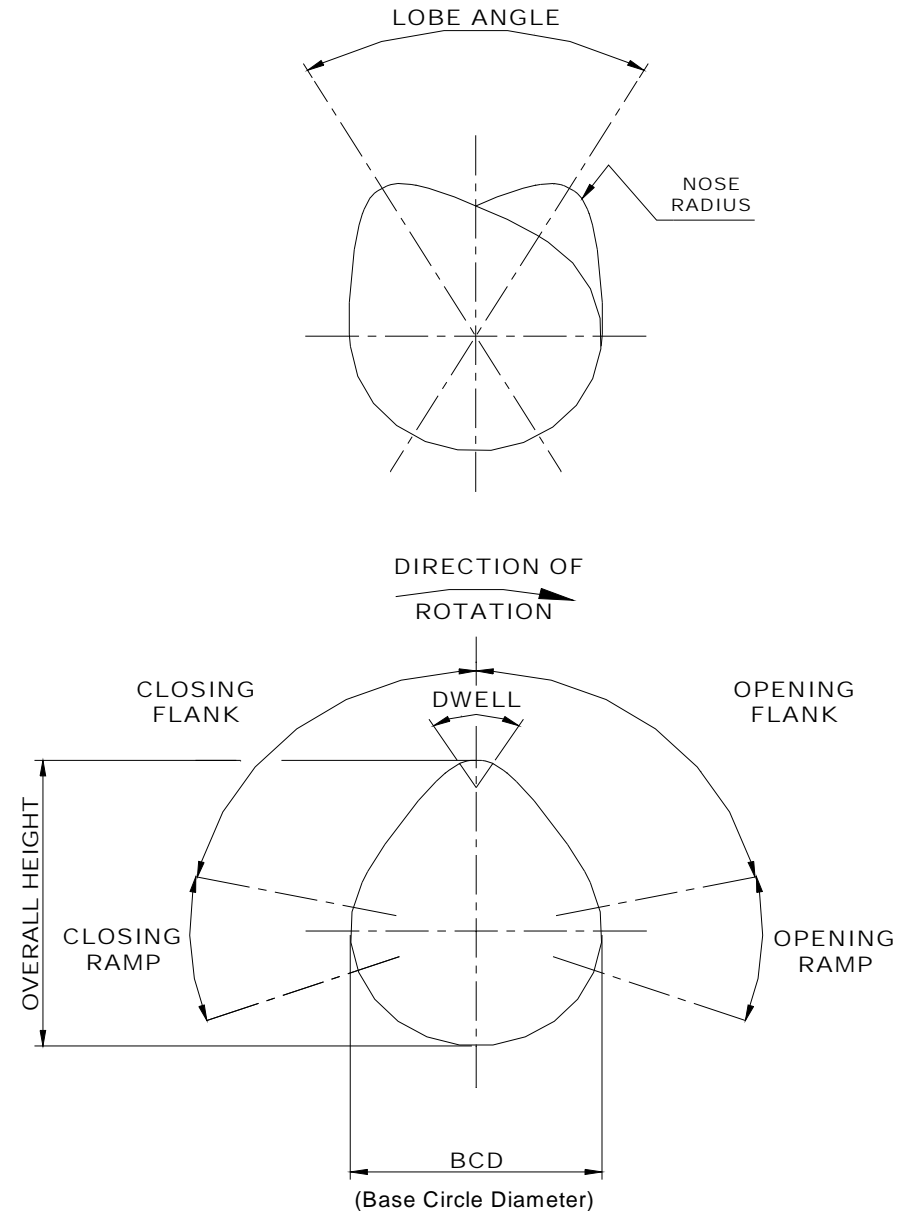
Rocker Ratio:

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.



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 your warranty.

PIPER CAMS

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 over-emphasized. 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**PIPER CAMS**

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
ARBP270	FAST ROAD	1500-6500	10 BHP	264 deg	264 deg	.400" 10.15mm	.398" 10.11mm	24 - 60 60 - 24	108 deg	108 deg	.078" 1.98mm	.076" 1.93mm	.010" / .25mm .012" / .30mm	£200 Repr £460 Blank
ARBP285	ULTIMATE ROAD	2000-7000	15+ BHP	280 deg	280 deg	.430" 10.92mm	.428" 10.87mm	34 - 66 66 - 34	106 deg	106 deg	.118" 2.99mm	.116" 2.94mm	.010" / .25mm .012" / .30mm	£460 Blank
ARBP300	RALLY	2800-7500		290 deg	290 deg	.438" 11.13mm	.436" 11.08mm	39 - 71 71 - 39	106 deg	106 deg	.160" 4.06mm	.158" 4.01mm	.010" / .25mm .012" / .30mm	£460 Blank
ARBP320	RACE	3000-8000		296 deg	296 deg	.470" 11.94mm	.468" 11.89mm	47 - 73 76 - 44	102 deg	104 deg	.177" 4.50mm	.164" 4.18mm	.010" / .25mm .012" / .30mm	£460 Blank

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

Valve lifts quoted assume a rocker ratio of 1:1

AR20BP270	FAST ROAD 2.0 TWIN SPARK	1500-6500	12 BHP	278 deg	278 deg	.445" 11.29mm	.400" 10.15mm	31 - 67 67 - 31	108 deg	108 deg	.117" 2.97mm	.092" 2.34mm	.014" / .35mm .016" / .40mm	£200 Repr £460 Blank
AR20BP285	ULTIMATE ROAD Not recommended for standard injection	2500-7000		290 deg	290 deg	.438" 11.13mm	.436" 11.08mm	39 - 71 71 - 39	106 deg	106 deg	.157" 4.00mm	.155" 3.95mm	.010" / .25mm .012" / .30mm	£460 Blank
AR20BP300	RALLY	2800-7500		300 deg	300 deg	.480" 12.19mm	.478" 12.13mm	47 - 73 76 - 44	103 deg	106 deg	.197" 5.01mm	.180" 4.58mm	.008" / .20mm .010" / .25mm	£460 Blank

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	NEW	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	£200 Repr
AR16VBP285	ULTIMATE ROAD	NEW	2500-7500		272 deg	264 deg	.432" 10.97mm	.415" 10.53mm	30 - 62 58 - 26	106 deg	106 deg	.084" 2.14mm	.081" 2.06mm	.008" / .20mm .010" / .25mm	£200 Repr
AR16VBP300	RALLY	NEW	3000-8000		276 deg	276 deg	.457" 11.60mm	.450" 11.42mm	32 - 64 64 - 32	106 deg	106 deg	.110" 2.80mm	.097" 2.46mm	.008" / .20mm .010" / .25mm	£200 Repr
AR16VBP320	RACE	NEW	3000-8000		284 deg	276 deg	.469" 11.91mm	.455" 11.55mm	40 - 64 60 - 36	102 deg	102 deg	.161" 4.08mm	.130" 3.29mm	.008" / .20mm .010" / .25mm	£200 Repr

ALFA ROMEO GTV6 / 156 / 164 V6 24V

Valve lifts quoted assume a rocker ratio of 1:1

ARV6BP270H	FAST ROAD	NEW	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	£320 Repr
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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	NEW	1500-6500	8 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	£320 Repr
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AUDI - SEE V.A.G.**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

FOLAR16V - Alfa Romeo 2.0 16v hydraulic follower set £240

CAMSHAFTS ASTON MARTIN DB5 / DB6

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£700 Blank
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	£700 Blank
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	£700 Blank

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" 10.44mm	.409" 10.38mm	14 - 50 50 - 14	108 deg		.037" 0.94mm	.022" 0.56mm	.013" / .33mm .015" / .38mm	£120 Reppo
AH4BP270	FAST ROAD	1500-5500	10 BHP	272 deg	272 deg	.400" 10.16mm	.398" 10.11mm	31 - 61 66 - 26	105 deg		.074" 1.89mm	.050" 1.26mm	.014" / .35mm .016" / .40mm	£120 Reppo
AH4BP285	ULTIMATE ROAD	2000-6000	15 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	£120 Reppo
AH4BP300	RALLY	2500-6500		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	£120 Reppo

AUSTIN HEALEY 3000

Valve lifts quoted assume a rocker ratio of 1.45:1

AH3BJ8	BJ8 - MK3 HEALEY 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	£180 Reppo £512 Billet
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	.050" 1.26mm	.014" / .35mm .016" / .40mm	£180 Reppo £512 Billet
AH3BP285	ULTIMATE ROAD	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	£180 Reppo £512 Billet
AH3BP300	RALLY	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	£180 Reppo £512 Billet
AH3BP320	RACE	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	£512 Billet
AH3SPRINT	RALLY RACE	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	£180 Reppo £512 Billet
AH3SSPRINT	RACE	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	£180 Reppo £512 Billet

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLAHR - Austin Healey 3000 competition follower set £160

VDSAHR - Austin Healey 3000 double valve springs £120

CAMSHAFTS BMC A SERIES MINI / METRO / MIDGET

PIPER CAMS

Prefix part number with type of oil pump drive. PD pin drive, SCD star drive, MET for metro
All billet camshafts have drilled lobes for additional lubrication

Valve lifts quoted assume a rocker ratio of 1.28:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
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	£95 Repro £175 Billet	
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	£95 Repro £175 Billet	
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" 1.07mm	.016" / .40mm .016" / .40mm	£95 Repro £175 Billet	
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	£115 Repro	
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	£95 Repro £175 Billet	
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	£95 Repro £175 Billet	
BP320	RACE The reputation of this cam is legendary. It gives over 150bhp in 1380 engines	4000-8500		320 deg	320 deg	.420" 10.67mm	.420" 10.67mm	57 - 83 83 - 57	103 deg	.159" 4.04mm	.159" 4.04mm	.012" / .30mm .012" / .30mm	£95 Repro £175 Billet	
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	£95 Repro £175 Billet	
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	£95 Repro £175 Billet	
466	SPEDEWORTH MINISTOCK 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	£95 Repro £175 Billet	
2046	SPEDEWORTH MINISTOCK 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	£95 Repro £175 Billet	
NEW A SERIES TWIN GEAR "FORMULA JUNIOR" STYLE BILLET CAMS									ANY PROFILE				£195 Billet	

Add type of oil pump drive required to kit code. ie. PD, SCD, or MET
All profiles available with scatter lobe angles, add SCA after part number

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	Price exc.VAT
KB255 / 270 / 270i	X	X	X								X	£140 Repro £210 Billet
KBMET270MPi	X	X	X								X	£175 Repro
KB285 / 300 / 320 / 649+	X	X	X								X	£140 Repro £210 Billet

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLMIN - A Series cam follower set £35
PULSMIN - A Series vernier duplex kit £90
PULDMIN - A Series all Alloy vernier duplex kit £95

MINKEY2 - 2 Deg offset key £10
MINKEY4 - 4 Deg offset key £10
MINKEY6 - 6 Deg offset key £10

VDSMIN2 - Uprated double valve spring set £40
VDSMINR - Race double valve spring set £80
SC1 - A series steel spring retainer set £40
TCMIN - Duplex timing chain £20

CAMSHAFTS BMC B SERIES MGA / MGB

PIPER CAMS

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.

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
BBP255	MILD ROAD	1000-6000	8 BHP	270 deg	272 deg	.405" 10.29mm	.389" 9.88mm	27 - 63 64 - 28	108 deg	.072" 1.83mm	.059" 1.50mm	.012" / .30mm .014" / .35mm	£110 Repro £175 Billet	
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	£110 Repro £175 Billet	
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	£110 Repro £175 Billet	
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	£110 Repro £175 Billet	
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	£110 Repro £175 Billet	
B929	RACE	2500-7000	Standard lift long duration	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	£110 Repro £175 Billet	
B851	ULTIMATE RACE	3500-7800	For use with MGC diameter followers only.	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	£175 Billet	
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	£110 Repro £175 Billet	
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	£110 Repro £175 Billet	
B770	RALLY	3000-7000		300 deg	310 deg	.445" 11.30mm	.445" 11.30mm	50 - 70 75 - 55	100 deg	.153" 3.89mm	.129" 3.28mm	.018" / .45mm .018" / .45mm	£110 Repro £175 Billet	
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	£110 Repro £175 Billet	
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	£110 Repro £175 Billet	

CAM KITS BMC B SERIES - MGA / MGB

All profiles available with scatter lobe angles, add SCA after part number

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube	Price exc.VAT
KBB270 / 285 / 300 / 320	X	X	X								X	£178 Repro £215 Billet

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSB - Uprated single valve spring set £40
VDSB2 - Uprated double valve spring set £44

MINKEY2 - 2 Deg offset key £10
MINKEY4 - 4 Deg offset key £10
MINKEY6 - 6 Deg offset key £10

PULSB - B series vernier duplex kit £90
PULSBS - B series vernier cam sprocket £80
FOLB - post 71 B series cam follower set £35
FOLB2 - Pre 71 B series cam follower set £60

CAMSHAFTS BMW E30 2002 / 316 / 318

Valve lifts quoted assume a rocker ratio of 1.29:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
BMW4BP270	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	£225 Blank	
BMW4BP285	ULTIMATE ROAD	2500-7000	16 BHP	292 deg	292 deg	.400" 10.16mm	.400" 10.16mm	36 - 76 76 - 36	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£225 Blank	

BMW E36 318i M40

Valve lifts quoted assume a rocker ratio of 1.73:1

BMWM40BP270	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	£225 Blank
BMWM40BP285	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	£225 Blank

BMW E36 318 IS 16v

Valve lifts quoted assume a rocker ratio of 1:1

BMWISBP270	FAST ROAD	1500-6000	10 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	£200 Repr
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BMW E30 320 / 323 / 325 'SMALL SIX'

Valve lifts quoted assume a rocker ratio of 1.56:1

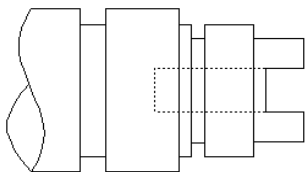
BMWS6BP270	FAST ROAD	1500-6500	12 BHP	274 deg	274 deg	.410" 10.41mm	.410" 10.41mm	27 - 67 67 - 27	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£310 Blank
BMWS6BP285	ULTIMATE ROAD	2200-7000	14 BHP	292 deg	292 deg	.420" 10.66mm	.420" 10.66mm	36 - 76 76 - 36	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£310 Blank

BMW 528 / 530 / 535 'LARGE SIX'

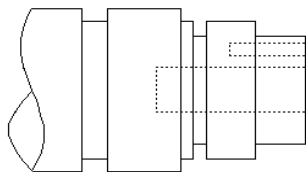
Valve lifts quoted assume a rocker ratio of 1.29:1

State ignition type when ordering: Motronic, Motronic II, Pre Motronic

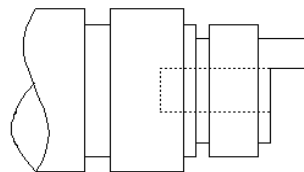
BMW6BP270	FAST ROAD	1500-6500	12 BHP	280 deg	276 deg	.390" 9.91mm	.400" 10.16mm	26 - 74 72 - 24	114 deg	N/A	N/A	.016" / .40mm .016" / .40mm	£310 Blank
BMW6BP285	ULTIMATE ROAD	2200-7000	18 BHP	288 deg	288 deg	.400" 10.16mm	.400" 10.16mm	34 - 74 74 - 34	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£310 Blank



PRE MOTRONIC



MOTRONIC II



MOTRONIC I

CAMSHAFTS CITREON - SEE PEUGEOT

PIPER CAMS

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
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	£120 Reppo £200 Blank	
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	£120 Reppo £200 Blank	
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	£120 Reppo £200 Blank	

FIAT X19 / 128 1.3 / 1.5 SOHC

Valve lifts quoted assume a rocker ratio of 1:1

Oversize shims or skimmed carrier may be required

FIAX19BP270	FAST ROAD	2000-6500	10 BHP	280 deg	280 deg	.385" 9.80mm	.385" 9.80mm	33 - 67 67 - 33	107 deg	.103" 2.61mm	.097" 2.46mm	.008" / .20mm .010" / .25mm	£120 Reppo £200 Blank
FIAX19BP285	ULTIMATE ROAD	2500-7300	15 BHP	288 deg	288 deg	.410" 10.40mm	.410" 10.40mm	36 - 72 72 - 36	108 deg	.107" 2.72mm	.105" 2.67mm	.008" / .20mm .010" / .25mm	£120 Reppo £200 Blank
FIAX19BP300	RALLY	3000-7800		290 deg	290 deg	.440" 11.18mm	.440" 11.18mm	39 - 71 71 - 39	106 deg	.156" 3.96mm	.154" 3.91mm	.010" / .25mm .012" / .30mm	£120 Reppo £200 Blank
FIAX19BP320	RACE	3500-8000		316 deg	316 deg	.440" 11.18mm	.440" 11.18mm	53 - 83 83 - 53	105 deg	.166" 4.22mm	.164" 4.26mm	.010" / .25mm .012" / .30mm	£120 Reppo £200 Blank

FIAT TWIN CAM 1.6 / 1.8 / 2.0

Valve lifts quoted assume a rocker ratio of 1:1

Oversize shims or skimmed carriers may be required

FIATTCBP270	FAST ROAD	2000-6500	10 BHP	280 deg	280 deg	.385" 9.80mm	.385" 9.80mm	32 - 68 68 - 32	108 deg	108 deg	.099" 2.51mm	.097" 2.46mm	.008" / .20mm .010" / .25mm	£200 Reppo £400 Blank
FIATTCBP285	ULTIMATE ROAD	2500-7000	15 BHP	288 deg	288 deg	.410" 10.40mm	.410" 10.40mm	36 - 72 72 - 36	108 deg	108 deg	.107" 2.72mm	.105" 2.67mm	.008" / .20mm .010" / .25mm	£400 Blank
FIATTCBP300	RALLY	3000-7500		290 deg	290 deg	.440" 11.18mm	.440" 11.18mm	39 - 71 71 - 39	106 deg	106 deg	.156" 3.96mm	.154" 3.91mm	.008" / .20mm .010" / .25mm	£200 Reppo £400 Blank
FIATTCBP320	RACE	3500-8000		304 deg	304 deg	.472" 11.98mm	.470" 11.93mm	48 - 76 76 - 48	104 deg	106 deg	.178" 4.51mm	.166" 4.21mm	.008" / .20mm .010" / .25mm	£400 Blank

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" 8.13mm	.320" 8.13mm	14 - 54 54 - 14	110 deg	110 deg	.016" 0.40mm	.016" 0.40mm	HYDRAULIC	£200 Reppo
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VDSFTC - Fiat 1.6/2.0 twin cam double valve springs £80
VDSPUN - Fiat Punto GT double valve springs £80

TBP1 - Fiat Uno turbo 1.3 & X19 1500 comp.cam belt £25
TBP2 - Fiat Uno turbo 1.4 comp.cam belt £25
TBP3 - Fiat 2.0 twin cam comp.cam belt £25

PULDUNO - Fiat Uno turbo / Punto GT alloy vernier pulley £100
PULD19 - Fiat X19 / 128 SOHC alloy vernier pulley £100
PULDFTC - Pr Fiat twin cam 1.6/2.0 alloy vernier pulleys £180
PULDFIRE - Fiat fire alloy vernier pulley £100

CAMSHAFTS FORD X FLOW 1300 / 1600

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1.5:1

Many other profiles are available. Ask for details

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
XFBP255	MILD ROAD	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	£95 Repro £136 Blank	
XFBP270	FAST ROAD	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	£95 Repro £136 Blank	
XFBP285	ULTIMATE ROAD	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	£95 Repro £136 Blank	
XFBP300	RALLY	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	£136 Blank	
XFBP320	RACE	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	£136 Blank	
XF391	1300 STOCKROD	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	£136 Blank	
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	£136 Blank	
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	£136 Blank	
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	£136 Blank	

Steel billet cams available £343

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	Price exc.VAT
KBXF255 / 270	X	X	X								X	£142 Repro £180 Blank
KBXF285	X	X	X		X	X					X	£172 Repro £200 Blank
KBXF300 / 320	X	X	X		X	X					X	£210 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSXF - Xflow vernier duplex kit £90

TCXF - Xflow duplex timing chain £20

FOLFW - Xflow 711 follower set £64

FOLFN - Pre Xflow follower set £64

XFDOW3 - Xflow 3 Deg offset dowl £9

XFDOW5 - Xflow 5 Deg offset dowl £9

XFDOW7 - Xflow 7 Deg offset dowl £9

XFDOW9 - Xflow 9 Deg offset dowl £9

SC9 - Steel retainers for above £40

SC10 - Steel spring caps for above £40

VSSF - Single valve spring set £40

VDSF2 - Xflow double valve spring kit £70

VDSFBPR - Race double valve springs £80

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£140 Blank	
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	£140 Blank	
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	£140 Blank	
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	£140 Blank	
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	£148 Blank	
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	£148 Blank	
OHCA8	RALLY/GRASS/ 2.0 HOT 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	£148 Blank	
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	£148 Blank	
OHC1802	F2 SUPERSTOCK The very latest technology for 2008 NEW	3000-7900		298 deg	298 deg	.490" 12.95mm	.490" 12.95mm	43 - 75 75 - 43	106 deg	N/A	N/A	.010" / .25mm .012" / .30mm	£148 Blank	

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	Price exc.VAT
KBOHC 255 / 134 / 270 / 285	X	X	X			X	X			X	£240 Blank
KBOHC 300 / 320 / A8 / 947 / 1802	X	X	X	X		X	X			X	£260 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSOHC - SOHC single valve spring set £55
 VDSOHC - SOHC double valve spring set £80
 SC8A - Steel retainers for single springs £40
 SC8B - Steel retainers for double springs £40

PULDOHC - SOHC alloy vernier pulley £80
 FOLOHC - SOHC follower set £55
 PULDAUX - SOHC alloy auxiliary pulley £44
 VSOHC - SOHC valve stem seals £8

TBP7 - 1.8/2.0 Competition cam belt £25
 TBP6 - 1.6 Competition cam belt £25
 BSTUD - SOHC ball stud set £26
 SBAR - SOHC spray bar £10

CAMSHAFTS FORD BDA / BDG / BDT**PIPER CAMS**

Valve lifts quoted assume a rocker ratio of 1:1

Various combinations of inlet & exhaust profiles are available, the range is vast, please call for further information

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£420 Blank
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	£420 Blank
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	£420 Blank
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	£420 Blank
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	£420 Blank
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	£420 Blank

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" 10.24mm	.403" 10.24mm	28 - 64 64 - 28	108 deg		.062" 1.57mm	.060" 1.52mm	.014" / .35mm .016" / .40mm	£140 Repro £232 Blank
V630BP285	ULTIMATE ROAD	2000-6500	24 BHP	288 deg	288 deg	.457" 11.61mm	.455" 11.56mm	35 - 73 73 - 35	109 deg		.086" 2.18mm	.084" 2.13mm	.014" / .35mm .016" / .40mm	£140 Repro £232 Blank
V630BP300	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	£232 Blank
V630BP320	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	£232 Blank

FORD V6 2.3 / 2.8 'COLOGNE' CARB

Valve lifts quoted assume a rocker ratio of 1.47:1

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

V623BP270	FAST ROAD	1500-6500	15 BHP	272 deg	272 deg	.403" 10.24mm	.403" 10.24mm	28 - 64 64 - 28	108 deg		.062" 1.57mm	.060" 1.52mm	.014" / .35mm .016" / .40mm	£140 Repro £172 Blank
V623BP285	ULTIMATE ROAD	2200-6800	20 BHP	282 deg	272 deg	.416" 10.57mm	.403" 10.24mm	33 - 69 64 - 28	108 deg		.072" 1.83mm	.062" 1.57mm	.012" / .30mm .014" / .35mm	£140 Repro £172 Blank
V623BP300	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	£172 Blank
V623BP320	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	£172 Blank

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	Price exc.VAT
KBV623270 / 285	X	X	X								X	£250 Repro £290 Blank

FORD V6 3.0 'ESSEX' INCLUDE:

KBV630270 / 285	X	X	X								X	£250 Repro £360 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLV6 - Essex V6 cam follower set £80

FOLV6G - Cologne V6 cam follower set £80

VSSV6G - Cologne V6 single valve spring set £60

VSSV6 - Essex V6 single valve spring set £60

CAMSHAFTS FORD V6 2.8 'COLOGNE' INJECTION ENGINE

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1.47:1

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

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
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	£140 Repr £172 Blank	
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	£140 Repr £172 Blank	
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	£172 Blank	
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	£172 Blank	

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	£140 Repr £172 Blank
V629BP285	ULTIMATE ROAD	2200-6800	20 BHP	290 deg	290 deg	.427" 10.85mm	.427" 10.85mm	37 - 73 73 - 37	108 deg	.075" 1.90mm	.073" 1.85mm	.012" / .30mm .014" / .35mm	£140 Repr £172 Blank
V629BP300	RALLY	3000-7000		300 deg	300 deg	.438" 11.13mm	.438" 11.13mm	42 - 78 78 - 42	108 deg	.113" 2.87mm	.111" 2.82mm	.016" / .40mm .018" / .45mm	£140 Repr £172 Blank
V629BP320	RACE	3500-7500		320 deg	320 deg	.450" 11.43mm	.450" 11.43mm	54 - 86 86 - 54	106 deg	.164" 4.17mm	.162" 4.11mm	.014" / .35mm .016" / .40mm	£172 Blank
V629EURO1	RACE Eurocar spec	3000-7300		300 deg	300 deg	.462" 11.68mm	.462" 11.68mm	46 - 74 74 - 46	104 deg	.154" 3.91mm	.152" 3.86mm	.016" / .40mm .018" / .45mm	£172 Blank

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	Price exc.VAT
KBV628270 / 285	X	X	X								X	£250 Repr £290 Blank
KBV628300 / 320	X	X	X								X	£290 Blank

FORD V6 2.9 ENGINE INCLUDE:

KBV629270 / 285	X	X	X								X	£250 Repr £290 Blank
KBV629300 / 320 / EURO1	X	X	X								X	£290 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLV6G - Cologne V6 cam follower set £80

VSSV6G - Cologne V6 single valve spring set £60

CAMSHAFTS FORD 1300 / 1600 CVH RS TURBO XR3I XR2

PIPER CAMS

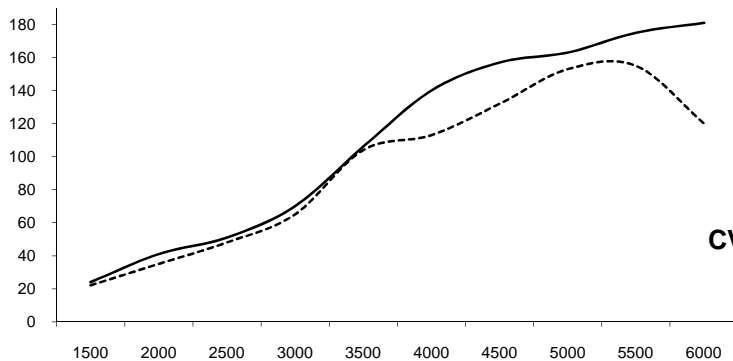
Valve lifts quoted assume a rocker ratio of 1.65:1

NOTE: These are very high performance cams, standard valve springs coil bind, always fit a complete cam kit.

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
CVHBP255	MILD ROAD . For use in all size engines	1000-5500	6 BHP	268 deg	268 deg	.400" 10.16mm	.400" 10.16mm	22 - 66 66 - 22	112 deg		.045" 1.14mm	.045" 1.14mm	HYDRAULIC	£160 Blank
CVHBP270	FAST ROAD When used in 1300/1400 engines. Excellent mild road cam in 1600	1200-6000	10 BHP	270 deg	270 deg	.440" 11.17mm	.440" 11.17mm	25 - 65 65 - 25	110 deg		.070" 1.78mm	.070" 1.78mm	HYDRAULIC	£160 Blank
CVHBP285	FAST ROAD INJECTION - Designed for use in injection engines. Excellent power and torque combined with smooth idle	1500-6600	12 BHP	276 deg	276 deg	.440" 11.17mm	.440" 11.17mm	30 - 66 66 - 30	108 deg		.080" 2.03mm	.080" 2.03mm	HYDRAULIC	£160 Blank
CVHBP285C	FAST ROAD CARBURETTOR - Massive mid range and top end power improvements. The ultimate 'carb' cam	2000-7000+	15 BHP	280 deg	280 deg	.495" 12.57mm	.495" 12.57mm	34 - 66 66 - 34	106 deg		.096" 2.43mm	.096" 2.43mm	HYDRAULIC	£160 Blank
CVHBP285T	FAST ROAD TURBO - For use in cars running std boost pressure, fantastic mid range.	2000-6000+	15 BHP	270 deg	270 deg	.458" 11.63mm	.440" 11.17mm	16 - 74 74 - 16	119 deg		.013" 0.33mm	.026" 0.67mm	HYDRAULIC	£160 Blank
CVHBP285T2	ULTIMATE ROAD HIGH BOOST TURBO - For engines running 14lbs+ boost, this cam has revolutionised the tuning world	2300-6500+	26 BHP	262 deg	270 deg	.450" 11.43mm	.440" 11.17mm	17 - 65 69 - 21	114 deg		.044" 1.12mm	.055" 1.40mm	HYDRAULIC	£160 Blank
CVHBP300M	RALLY Torque & power in abundance. The two ingredients needed to win rallies, this cam has both in abundance	2800-7500		302 deg	302 deg	.506" 12.84mm	.504" 12.79mm	45 - 77 77 - 45	106 deg		.165" 4.19mm	.163" 4.14mm	.010" / .25mm .012" / .30mm	£160 Blank
CVHBP320M	RACE When raw power is required, do not compromise fit this one	4000-8000		352 deg	352 deg	.458" 11.63mm	.458" 11.63mm	73 - 99 99 - 73	103 deg		.180" 4.57mm	.178" 4.52mm	.014" / .35mm .016" / .40mm	£160 Blank

CAM KITS FORD 1300 / 1600 CVH RS TURBO XR3I XR2 INCLUDE:

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube	Price exc.VAT
KBCVH255 / 270 / 285 / 285C	X	X	X	X	X						X	£280 Blank
KBCVH285T / 285T2	X	X	X	X	X						X	£280 Blank



ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

- FOLCVH - CVH hydraulic follower set £88
- FOLCVHS - CVH solid follower set £170
- PULDCVH - CVH alloy vernier pulley £80
- TBP4 -1.4/1.6 Competition cam belt £25
- TBP5 -1.1/1.3 Competition cam belt £25
- VSSCVH - CVH single valve spring kit £70
- VDSCVH2 - CVH double valve spring kit £135
- SSCVH - CVH spring seats & seals set £24.50

CAMSHAFTS FORD ESCORT / SIERRA COSWORTH 16v

PIPER CAMS

Many other profiles available ie BD10 / 14 / 15 and 16

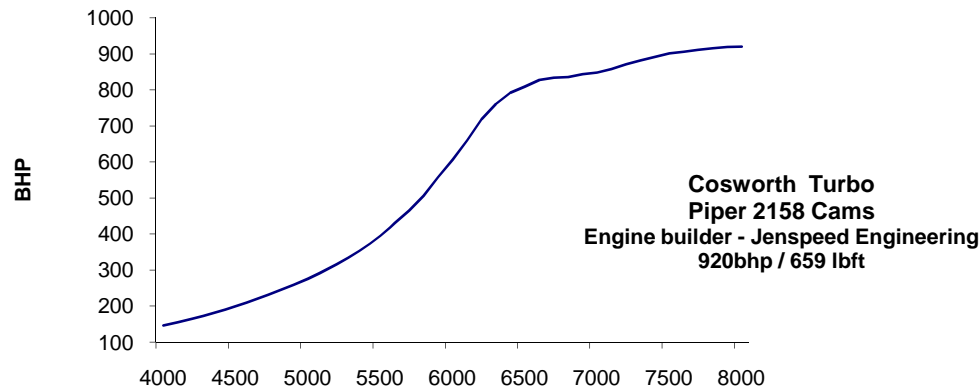
Valve lifts quoted assume a rocker ratio of 1:1

Note: If blanks cams are fitted to 2WD cylinder heads then a 5mm thrust spacer is required. Part no: COSWASH

Part No.	Application		Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT	
					Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh			
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	£200 Reppo £480 Blank	
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	£480 Blank	
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	£480 Blank	
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	£480 Blank	
COS2158	RACE	Turbo	4500-8000	The "Jenspeed" profile	NEW	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	£480 Blank
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	£480 Blank	
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	£480 Blank	
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	£200 Reppo £480 Blank	
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	£200 Reppo £480 Blank	
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	£200 Reppo £480 Blank	

CAM KITS FORD ESCORT / SIERRA COSWORTH 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	Price exc.VAT
KBCOS270HT / 285HT	X	X									X	£560 Blank
KBCOS300HT / 320HT	X	X	X			X					X	£690 Blank
KBCOS270H / 285H	X	X	X			X					X	£690 Blank



ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

- PULDCOS - Pr cosworth alloy vernier pulleys £165
- TBP9 - Cosworth competition cam belt £37
- VDSCOS - Cosworth double valve spring set £155
- SC7 - Cosworth steel valve spring retainers £68
- COSWASH - 5mm thrust spacer £7
- FOLCOSH - Cosworth hydraulic follower set £240
- FOLCOSM - Cosworth solid follower set £350

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
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	£200 Repr £395 Blank
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	£200 Repr £395 Blank
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	£395 Blank
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	£395 Blank
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	£395 Blank

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	£200 Repr £395 Blank
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	£200 Repr £395 Blank
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	£395 Blank
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	£395 Blank
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	£395 Blank

FORD PUMA 1.7 16v

Valve lifts quoted assume a rocker ratio of 1:1

All profiles designed for standard diameter tappets. Oversize shims will be required for reground cams

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	£200 Repr £395 Blank
PUMRBP270	FAST ROAD - PUMA RACING	2000-7000	10 BHP	272 deg	248 deg	.368" 9.35mm	.343" 8.72mm	26 - 66 54 - 14	110 deg	110 deg	.082" 2.08mm	.024" 0.61mm	.008" / .20mm .012" / .30mm	£395 Blank
PUMBP285	ULTIMATE ROAD Not recommend for use with std injection	3500-8200		280 deg	272 deg	.368" 9.35mm	.358" 9.09mm	34 - 66 64 - 28	106 deg	108 deg	.105" 2.67mm	.061" 1.56mm	.010" / .25mm .010" / .25mm	£395 Blank
PUMBP300	RALLY	3500-8500		288 deg	276 deg	.441" 11.19mm	.421" 10.68mm	40 - 68 64 - 32	104 deg	106 deg	.127" 3.23mm	.095" 2.41mm	.008" / .20mm .010" / .25mm	£395 Blank

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	Price exc.VAT
KBZETA270AH / 270BH	X	X									X	£375 Repr £540 Blank
KBZETA285H	X	X	X								X	£590 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDZETA - Puma 1.7 alloy vernier exh pulley £100
 FOLPUM - Puma 1.7 competition solid follower set £350

FOLZETAH - Zetec hydraulic follower set £240
 FOLZETAM - Zetec solid follower set £350
 FOLZETAM31 - Zetec 31mm oversize solid follower set £350
 TBP8 - Zetec competition cam belt £37

PULDZETA - Pr zetec alloy vernier pulleys £165
 VSSZETA - Zetec single valve spring set £105
 SC11 - Zetec steel valve spring retainers £68
 VSSRS2 - RS2000 16v single valve spring set £105

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

PIPER CAMS

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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 deg	.008" 0.21mm	.006" 0.16mm	.014" / .35mm .016" / .40mm	£395 Blank
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 deg	.008" 0.21mm	.006" 0.16mm	.012" / .30mm .016" / .40mm	£395 Blank
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 deg	.025" 0.63mm	.008" 0.20mm	.012" / .30mm .014" / .35mm	£395 Blank
FOC16BP285	ULTIMATE ROAD Not recommended for use with std injection. Piper valve springs (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 deg	.055" 1.39mm	.018" 0.40mm	.008" / .20mm .012" / .30mm	£395 Blank
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 deg	.127" 3.23mm	.095" 2.41mm	.008" / .20mm .010" / .25mm	£395 Blank
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 deg	.147" 3.73mm	.108" 2.78mm	.010" / .25mm .012" / .30mm	£395 Blank

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

These cams are cnc ground std base circle size. Many other profile available. Please call for details

FOC20BP270	FAST ROAD	1800-7000	12 BHP	260 deg	248 deg	.372" 9.45mm	.345" 8.76mm	20 - 60 54 - 14	110 deg	110 deg	.045" 1.14mm	.024" 0.61mm	.010" / .25mm .012" / .30mm	£395 Blank
FOC20BP285	ULTIMATE ROAD	2500-7500		264 deg	256 deg	.382" 9.71mm	.361" 9.18mm	24 - 60 56 - 20	108 deg	108 deg	.063" 1.60mm	.045" 1.14mm	.010" / .25mm .012" / .30mm	£395 Blank
FOC20BP300	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	£395 Blank
FOC20BP320	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	£395 Blank

FORD FOCUS 2.0 16v ST170

Valve lifts quoted assume a rocker ratio of 1:1

FOCSTBP285	ULTIMATE ROAD	2500-7500		280 deg	264 deg	.425" 10.80mm	.380" 9.66mm	34 - 66 58 - 26	106 deg	106 deg	.101" 2.57mm	.069" 1.75mm	.010" / .25mm .012" / .30mm	£200 Repro
FOCSTBP300	RALLY Use valve spring kit VSSST170	3000-8000		284 deg	272 deg	.450" 11.44mm	.413" 10.50mm	38 - 66 60 - 32	104 deg	104 deg	.122" 3.10mm	.086" 2.18mm	.010" / .25mm .012" / .30mm	£200 Repro

FORD FOCUS RS

Valve lifts quoted assume a rocker ratio of 1:1

These cams are cnc ground std base circle size

FOCRSBP270	FAST ROAD	1800-7000	18 BHP	260 deg	260 deg	.370" 9.40mm	.368" 9.35mm	20 - 60 60 - 20	110 deg	110 deg	.046" 1.16mm	.044" 1.11mm	.010" / .25mm .012" / .28mm	£395 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDFOC - Pr focus 1.6 alloy vernier pulleys £165
 VSSFOC16 - Focus 1.6 single valve spring and cap set £155
 SC24 - Focus 1.6 steel valve spring retainers £68
 TBP31 - Focus 1.4 / Puma 1.7 comp cam belt £37

PULDZETA - Pr Focus 2.0 & RS alloy vernier pulleys £165
 VSSZETA34 - Focus 2.0 & RS single valve spring kit £155
 SC11 - Focus 2.0 & RS spring retainers £68.00
 TBP30 - Focus 1.6/2.0 comp cam belt £37

PULDST170 - Focus ST170 alloy vernier exh pulley £100
 VSSST170 - Focus ST170 single valve spring kit £155
 SC37 - Focus ST170 steel valve spring retainers £68

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£360 Blank
DUR1892	For use with throttle bodies & Piper VSSDUR springs. These are the hottest profile that can be fitted without machining pistons.	2000-7200		276 deg	276 deg	.402" 10.21mm	.400" 10.16mm	30 - 66 66 - 30	108 deg	108 deg	.084" 2.13mm	.082" 2.08mm	.008" / .20mm .010" / .25mm	£360 Blank
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	£360 Blank
DUR2170	NATIONAL HOT ROD Piper double valve springs must be used NEW	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	£360 Blank
DURBP300	RALLY For use with throttle bodies. Piper double valve springs, VDS DUR, 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	£360 Blank
DURBP320	RACE For use with throttle bodies. Piper valve springs, VDS DUR, 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	£360 Blank

FORD FOCUS ST225 - 5 CYL

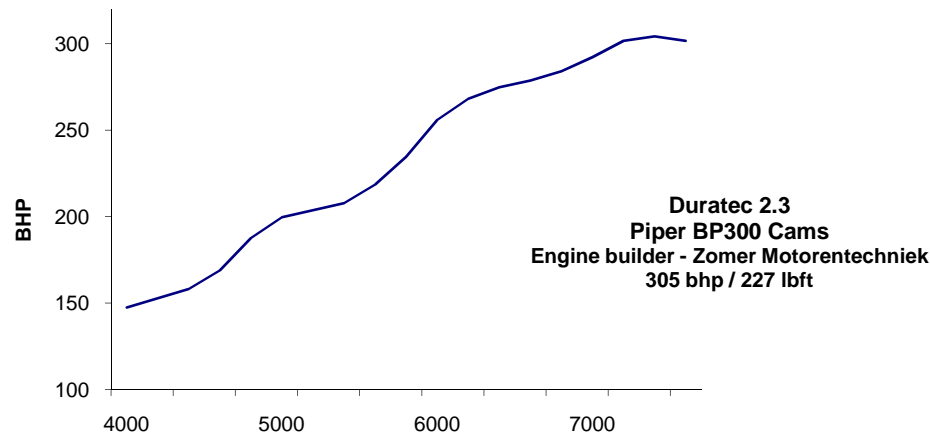
Valve lifts quoted assume a rocker ratio of 1:1

All profiles CNC ground to standard base circle size

FOC225BP270	NEW	Full range of profiles available 2008	£600 Blank
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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	Price exc.VAT
KBDUR1892 / BP285	X		X			X					X	£480 Blank
KBDUR2170 / BP300 / BP320	X		X			X					X	£625 Blank



ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

- PULSDUR - Duratec vernier kit £100
- VSSDUR - Duratec single valve spring and cap set £155
- VDS DUR - Duratec double valve spring, seat, seal and cap set £290
- VSODUR - Duratec oil seals £40
- SSDUR - Duratec spring seats £40
- SC20 - Duratec spring cap set £68
- VSSST225 - Focus ST225 single valve spring & cap set £195

CAMSHAFTS HONDA 1.6 16v VTEC

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1.49:1 on low & mid, 1.56:1 on high lobe

Part No.	Application	Power Band	Duration			Valve Lift			Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
			Low	Med	High	Low	Med	High	Inl ATDC	Exh BTDC	Inl with clearance	Exh		
VTECBP270	FAST ROAD	2000-8200	In 230 deg Ex 230 deg	In 240 deg Ex 240 deg	In 278 deg Ex 272 deg	In .220" Ex .200"	In .290" Ex .295"	In .440" Ex .406"	108 deg	108 deg	N/A	N/A	.010" / .25mm .012" / .30mm	£520 Blank
VTECBP285	ULTIMATE ROAD	3200-8600	In 236 deg Ex 236 deg	In 256 deg Ex 256 deg	In 304 deg Ex 280 deg	In .235" Ex .233"	In .350" Ex .348"	In .457" Ex .440"	104 deg	106 deg	N/A	N/A	.010" / .25mm .012" / .30mm	£520 Blank

HONDA CIVIC TYPE R 2.0 16v I-VTEC K20

IVTECBP300	RALLY	3800-9000	For use with throttle bodies / supercharged			In 280 deg Ex 274 deg	In 280 deg Ex 274 deg	In 310 deg Ex 300 deg	In .355" Ex .310"	In .355" Ex .310"	In .495" Ex .445"	108 deg	108 deg	.035" 0.89mm	.025" 0.64mm	.010" / .25mm .012" / .30mm	£520 Blank
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JAGUAR 6 CYL

Valve lifts quoted assume a rocker ratio of 1:1

JAG6BP255	MILD ROAD	1500-5800	8 BHP	264 deg	264 deg	.400" 10.17mm	.398" 10.12mm	22 - 62 62 - 22	110 deg	110 deg	.067" 1.68mm	.065" 1.63mm	.010" / .25mm .012" / .30mm	£260 Repro £480 Blank
JAG6BP270	FAST ROAD	2000-6000	15 BHP	274 deg	274 deg	.420" 10.67mm	.418" 10.62mm	27 - 67 67 - 27	110 deg	110 deg	.092" 2.33mm	.090" 2.28mm	.008" / .20mm .010" / .25mm	£260 Repro £480 Blank
JAG6BP285	ULTIMATE ROAD	2500-6500	20 BHP	280 deg	280 deg	.450" 11.43mm	.448" 11.38mm	30 - 70 70 - 30	110 deg	110 deg	.110" 2.79mm	.108" 2.74mm	.010" / .25mm .012" / .30mm	£260 Repro £480 Blank
JAG6BP300	RALLY	2800-7000		280 deg	280 deg	.460" 11.68mm	.438" 11.13mm	32 - 68 68 - 32	108 deg	108 deg	.126" 3.20mm	.095" 2.41mm	.010" / .25mm .012" / .30mm	£480 Blank
JAG6BP320	RACE	3000-7500		296 deg	296 deg	.470" 11.94mm	.468" 11.89mm	42 - 74 76 - 40	106 deg	108 deg	.156" 3.96mm	.143" 3.64mm	.010" / .25mm .012" / .30mm	£480 Blank
JAG6BP330	ULTIMATE RACE	3500-8000		296 deg	292 deg	.520" 13.21mm	.480" 12.20mm	42 - 74 72 - 40	106 deg	106 deg	.195" 4.96mm	.162" 4.12mm	.010" / .25mm .012" / .30mm	£480 Blank

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" 10.17mm	.398" 10.12mm	22 - 62 62 - 22	110 deg	110 deg	.067" 1.68mm	.065" 1.63mm	.010" / .25mm .012" / .30mm	£316 Repro
JAG12BP270	FAST ROAD	2200-7000	25 BHP	274 deg	274 deg	.420" 10.67mm	.418" 10.62mm	27 - 67 67 - 27	110 deg	110 deg	.092" 2.33mm	.090" 2.28mm	.008" / .20mm .010" / .25mm	£316 Repro
JAG12BP285	ULTIMATE ROAD	2500-7500		280 deg	280 deg	.450" 11.43mm	.448" 11.38mm	30 - 70 70 - 30	110 deg	110 deg	.110" 2.79mm	.108" 2.74mm	.010" / .25mm .012" / .30mm	£316 Repro

JAGUAR 3.0 V6

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

JAGV6BP270	FAST ROAD	NEW	1500-6000	20 BHP	264 deg	272 deg	.376" 9.55mm	.374" 9.50mm	26 - 58 64 - 28	106 deg	108 deg	.060" 1.53mm	.062" 1.58mm	.010" / .25mm .012" / .30mm	£600 Blank
JAGV6BP285	ULTIMATE ROAD	NEW	2000-7000		280 deg	272 deg	.444" 11.28mm	.428" 10.87mm	36 - 64 62 - 30	104 deg	106 deg	.110" 2.80mm	.080" 2.04mm	.011" / .28mm .012" / .30mm	£600 Blank
JAGV6BP300	RALLY	NEW	2500-7500		280 deg	280 deg	.463" 11.75mm	.442" 11.23mm	36 - 64 66 - 34	104 deg	106 deg	.140" 3.55mm	.102" 2.58mm	.008" / .20mm .010" / .25mm	£600 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSJV6- Jaguar V6 vernier kit £396
FOLJV6 - Jaguar V6 followers (shim under) £540.00

SC12 - Honda vtec 1.6 steel valve spring retainer set £68
TBP32 - Honda vtec 1.6 competition cam belt £37
PULDVTEC - Pr Honda vtec 1.6 alloy vernier pulleys £180
VDSVTEC - Honda vtec 1.6 double valve spring set £155

CAMSHAFTS LANCIA DELTA INTEGRALE 16v TURBO**PIPER CAMS**

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
LANCTBP270	FAST ROAD	1500-6500	15 BHP	244 deg	230 deg	.368" 9.33mm	.342" 8.69mm	12 - 52 45 - 5	110 deg	110 deg	.026" 0.65mm	.006" 0.15mm	.016" / .40mm .016" / .40mm	£200 Repro

LOTUS TWIN CAM 8v

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

LOTBP270	FAST ROAD	1500-6000	12 BHP	270 deg	270 deg	.352" 8.94mm	.350" 8.89mm	25 - 65 65 - 25	110 deg	110 deg	.079" 2.00mm	.077" 1.96mm	.008" / .20mm .010" / .25mm	£140 Repro £384 Blank
LOTBP285	ULTIMATE ROAD	2000-7000	16 BHP	280 deg	280 deg	.384" 9.75mm	.382" 9.70mm	30 - 70 70 - 30	110 deg	110 deg	.090" 2.28mm	.088" 2.23mm	.008" / .20mm .010" / .25mm	£140 Repro £384 Blank
LOTBP300	RALLY	2500-7500		304 deg	304 deg	.402" 10.21mm	.402" 10.21mm	46 - 78 81 - 43	106 deg	109 deg	.136" 3.45mm	.121" 3.06mm	.008" / .20mm .010" / .25mm	£140 Repro £384 Blank
LOTBP320	RACE	3000-8000		324 deg	324 deg	.451" 11.44mm	.449" 11.39mm	60 - 84 84 - 60	102 deg	102 deg	.201" 5.12mm	.199" 5.06mm	.008" / .20mm .010" / .25mm	£140 Repro £384 Blank

LOTUS ELISE / EXIGE - SEE ROVER K SERIES OR TOYOTA VVT LI**MINI ONE / COOPER / COOPER S**

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

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	£270 Blank
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	£270 Blank

CAMSHAFTS MITSUBISHI EVO 10

Profile	Application	
BP255	FAST ROAD	AVAILABLE EARLY 2009 £POA
BP270	FAST ROAD	AVAILABLE EARLY 2009 £POA
BP285	ULTIMATE ROAD	AVAILABLE EARLY 2009 £POA
BP300	RALLY	AVAILABLE EARLY 2009 £POA
BP320	RACE	AVAILABLE EARLY 2009 £POA
GPA	GROUP A	AVAILABLE EARLY 2009 £POA

CAMSHAFTS MITSUBISHI EVO 1 - 9

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1.724:1

Profile	Application		Duration @ 1mm		Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance
			Inl	Exh	Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	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	HYDRAULIC
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	HYDRAULIC
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	HYDRAULIC
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	HYDRAULIC
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	HYDRAULIC
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	HYDRAULIC

MECHANICAL PROFILES DESIGNED FOR COMPETITION APPLICATIONS ONLY

1744	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" 11.50mm	.453" 11.50mm	29 - 61 61 - 29	106 deg	106 deg	.074" 1.88mm	.074" 1.88mm	.006" / .15mm .006" / .15mm
1743	RACE	MECHANICAL - Extra high lift profile: Only Piper valve springs (Part no VSSMITS) must be used	236 deg	236 deg	274 deg	274 deg	.453" 11.50mm	.453" 11.50mm	31 - 63 63 - 31	106 deg	106 deg	.085" 2.16mm	.085" 2.16mm	.006" / .15mm .006" / .15mm
1742	RACE	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	.472" 12.00mm	31 - 63 63 - 31	106 deg	106 deg	.074" 1.88mm	.074" 1.88mm	.006" / .15mm .006" / .15mm
1741	DRAG 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" 12.00mm	.472" 12.00mm	39 - 71 71 - 39	106 deg	106 deg	.096" 2.44mm	.096" 2.44mm	.006" / .15mm .006" / .15mm

Camshaft part numbers:

Model	Part number		Price exc.VAT
	1st half	2nd half (Profile)	
EVO 1-3	MIT1	BP255 or BP270 etc.	£400 Blank
EVO 4-7	MIT5	BP255 or BP270 etc.	£400 Blank
EVO 8	MIT8	BP255 or BP270 etc.	£400 Blank
EVO 9	MIT9	BP255 or BP270 etc.	£550 Blank

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	Price exc.VAT
EVO 1-3	KBMIT1 270 / 285 / 300	X	X				X			X	X	£680 Blank
EVO 4-7	KBMIT5 270 / 285 / 300	X	X				X			X	X	£680 Blank
EVO 8	KBMIT8 270 / 285 / 300	X	X				X			X	X	£680 Blank
EVO 9	KBMIT9 270 / 285 / 300	X	X				X			X	X	£780 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSMITS - Mitsubishi Evo single valve spring and caps set £180

SC21 - Mitsubishi Evo steel valve spring retainer set £68

SC21T - Mitsubishi Evo Titanium valve spring retainer set £190

PULDMITS - Mitsubishi Evo alloy vernier pulleys £190

PULDMITS9 - Mitsubishi Evo 9 alloy Exh vernier pulley £110

NEW MITSADJM - Mitsubishi Evo Solid lifters £380.00

TBP34 - Mitsubishi Evo performance cam belt £37**

** **NOTE** : Fits 4/5/6/7 ONLY

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

Valve lifts quoted assume a rocker ratio of 1.59:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
NISBP270	FAST ROAD	1500-6800	12 BHP	262 deg	262 deg	.418" 10.62mm	.418" 10.62mm	21 - 61 61 - 21	110 deg	110 deg	N/A	N/A	HYDRAULIC	£400 Blank
NISBP285	ULTIMATE ROAD <small>Not recommended for use with std injection</small>	2500-7500	20 BHP	268 deg	268 deg	.437" 11.10mm	.437" 11.1mm	24 - 64 64 - 24	110 deg	110 deg	N/A	N/A	HYDRAULIC	£400 Blank

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	£400 Blank
NISBP285R	ULTIMATE ROAD <small>Not recommended for use with std injection</small>	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	£400 Blank

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" 8.77mm	.343" 8.72mm	14 - 54 54 - 14	110 deg	110 deg	.027" 0.68mm	.025" 0.63mm	.010" / .25mm .012" / .30mm	£200 Repro £545 Blank
NISMICBP285	ULTIMATE ROAD	2500-7500	12 BHP	272 deg	272 deg	.357" 9.07mm	.355" 9.02mm	30 - 62 62 - 30	106 deg	106 deg	.071" 1.80mm	.069" 1.75mm	.010" / .25mm .012" / .30mm	£200 Repro £545 Blank

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	£400 Blank
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	£400 Blank

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	£300 Repro
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	£300 Repro

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSSR20 - Nissan GTiR / Almera & Primera vernier sprockets £180

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

PIPER CAMS

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 Journal size: 1.671" / 42.44mm

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£184 Blank	
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	£184 Blank	
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	£184 Blank	
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	£184 Blank	
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	£184 Blank	
P13GPA1	GROUP A RACE	2500-7000		304 deg	304 deg	.410" 10.42mm	.410" 10.42mm	48 - 76 76 - 48	104 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£184 Blank	

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

No.1 Journal size: 1.738" / 44.15mm

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£184 Blank	
P14BP270RAL	FAST ROAD	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	£184 Blank	
P14BP285	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	£184 Blank	
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	£184 Blank	
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	£184 Blank	

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	Price exc.VAT
KBP13270 / 285	X	X									X	£340 Blank
KBP13300 / 320 / GPA1	X	X	X								X	£380 Blank

PEUGEOT 106 / 306 8v (IRON 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	Price exc.VAT
KBP14270 285	X	X									X	£340 Blank
KBP14300 / 320	X	X	X								X	£380 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSP13 - Peugeot 1360 single valve springs £50
 FOLP13 - Peugeot 1360 cam followers £160
 PULD205 - Peugeot 1360 alloy vernier pulley £100

TBP11 - Peugeot 205 1360 competition cam belt £25
 TBP12 - Peugeot Xsi 1.4 & 306 1.6 competition cam belt £25

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

Valve lifts quoted assume a rocker ratio of 1.4:1

'BLACK ROCKER COVER'

No.1 Journal size: 1.738" / 42.44mm

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
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	£184 Blank
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	£184 Blank
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	£184 Blank

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

Valve lifts quoted assume a rocker ratio of 1.75:1

'GREY ROCKER COVER'

Part No.	Application	Power Band	Power Increase	Duration Inl	Duration Exh	Valve Lift Inl	Valve Lift Exh	Timing	Full Lift Inl ATDC	Full Lift Exh BTDC	Lift @ TDC with clearance Inl	Lift @ TDC Exh	Valve Clearance	Price exc.VAT
VTRBP270R	FAST ROAD	1500-6500	10 BHP	258 deg	258 deg	.422" 10.71mm	.422" 10.71mm	15 - 63 63 - 15	114 deg		N/A	N/A	.008" / .20mm .010" / .25mm	£184 Blank
VTRBP285R	ULTIMATE ROAD Not recommended for use with std injection	2000-7000	14 BHP	264 deg	264 deg	.422" 10.71mm	.422" 10.71mm	22 - 62 62 - 22	110 deg		N/A	N/A	.008" / .20mm .010" / .25mm	£184 Blank

PEUGEOT 106 GTI & CITROEN SAXO VTS 1.6 16V

Valve lifts quoted assume a rocker ratio of 1:1

NOTE : LATER ENGINES MAY REQUIRE LARGER M11 CAM PULLEY BOLT & WASHER (CITROEN / PEUGEOT PART NUMBER 806.18 & 694906)

Part No.	Application	Power Band	Power Increase	Duration Inl	Duration Exh	Valve Lift Inl	Valve Lift Exh	Timing	Full Lift Inl ATDC	Full Lift Exh BTDC	Lift @ TDC with clearance Inl	Lift @ TDC Exh	Valve Clearance	Price exc.VAT
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	£390 Blank
SAX16BP270T	FAST ROAD For use in a turbo application	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	£390 Blank
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	£390 Blank
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	.396" 10.05mm	.380" 9.65mm	22 - 62 64 - 16	110 deg	114 deg	.058" 1.47mm	.016" 0.40mm	HYDRAULIC	£390 Blank
SAX16BP300H	RALLY	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	£390 Blank
SAX16BP300	RALLY	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	£390 Blank
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	£390 Blank

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	Price exc.VAT
KBVTR270	X	X									X	£390 Blank
KBVTR285	X	X	X								X	£420 Blank

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

KBSAX16270 / 270T / 285	X	X									X	£590 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDVTR - Saxo VTR (40 tooth) alloy vernier pulley £100

PULDVTS - Pair Saxo VTS alloy vernier pulley £180

TBP39 - Saxo VTS 1.6 16v cam belt £37

VSSVTR - Saxo VTR (roller type) single valve spring set £50

VSSVTR2 - Saxo VTR (non-roller type) single valve spring set £50

VDSVTS - Saxo VTS double valve spring kit £240

FOLP13 - VTR non roller follower set £160

FOLVTSH - Saxo VTS hydraulic follower set £240

FOLVTSM - Saxo VTS solid follower set £350

FOLVTSM31 - Saxo VTS 31mm solid follower set £350

CAMSHAFTS PEUGEOT 205 / 309 GTI 1600 / 1900

PIPER CAMS

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
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	£184 Blank
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	£184 Blank
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	£184 Blank
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	£184 Blank
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	£184 Blank
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	£184 Blank
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	£184 Blank

PEUGEOT MI16 /S16 & CITROEN BX / XANTIA 16v

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing		Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh	Inl ATDC	Exh BTDC	Inl with clearance	Exh	Inl with clearance	Exh		
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		£200 Repro £490 Blank
P16VBP285	ULTIMATE ROAD Piper valve springs (Part no VDSDMI16) 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		£490 Blank
P16VBP300	RALLY Piper valve springs (Part no VDSDMI16) 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		£490 Blank
P16VBP320	RACE Piper valve springs (Part no VDSDMI16) 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		£490 Blank
P16VGPA	GROUP A RALLY Piper valve springs (Part no VDSDMI16) must be used	2800-7800		282 deg	282 deg	.448" 11.38mm	.419" 10.60mm	35 - 67 67 - 35	106 deg	106 deg	.144" 3.66mm	.110" 2.80mm	.008" / .20mm .010" / .25mm		£490 Blank

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	Price exc.VAT
KBP16270 / 285	X	X									X	£320 Blank

PEUGEOT MI16/S16 16v INCLUDE:

KBP16V270	X	X									X	£387 Repro £660 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

TBP13 - Peugeot Gti 1.6/1.9 >92 competition cam belt £25

TBP14 - Peugeot Gti 1.6/1.9 92-on competition cam belt £25

TBP15 - Peugeot 1.9 MI16 competition cam belt £37

PULD205 - Peugeot alloy vernier pulley £100

PULDMI16 - Peugeot MI16 vernier pulleys £180

VDSDMI16 - Peugeot MI16 / S16 double valve spring kit £240

VDSP16 - Peugeot 1.6/1.9 Race double springs £160

FOLP16 - Peugeot 1.6/1.9 cam followers £140

FOLMI16M - Peugeot MI16 / S16 comp.solid cam followers £350

FOLMI16H - Peugeot MI16 / S16 hydraulic cam followers £240

CAMSHAFTS PEUGEOT 306 XSI 2.0 8v**PIPER CAMS**

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl Exh	Inl Exh		
PXSIBP270	FAST ROAD	1500-6500	8 BHP	252 deg	256 deg	.425" 10.80mm	.434" 11.02mm	16 - 56 58 - 18	110 deg	110 deg	.044" 1.12mm	.054" 1.36mm	.015" / .38mm .017" / .43mm	£184 Blank

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	£200 Repr £390 Blank
GTI6BP285H	ULTIMATE ROAD	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	£390 Blank
GTI6BP285	ULTIMATE ROAD	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	£390 Blank
GTI6BP300	RALLY	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	£390 Blank
GTI6BP320	RACE	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	£390 Blank

PEUGEOT 206 2.0 16v GTI

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	£200 Repr
GTI2BP270	FAST ROAD	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	£220 Blank
GTI2BP285	ULTIMATE ROAD	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	£390 Blank
GTI2BP300	RALLY	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	£390 Blank
GTI2BP320	RACE	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	£390 Blank

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	Price exc.VAT
KBPGTI6270	X	X										X	£400 Repr £590 Blank

PEUGEOT 206 2.0 16v GTI INCLUDE:

KBPGTI2270R	X	X										X	£400 Repr
KBPGTI2270 *	X	X										X	£320 Blank

* = Note this kit includes inlet cam & followers only

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLGTI6M - 306 GTI6 comp.solid cam followers £350

VDSP306 - 306 GTI6 double valve springs kit £220

PULDXSI - Peugeot 2.0 8v vernier pulley £100

TBP14 - Peugeot 2.0 8v XSi cam belt £25

TBP28 - Peugeot S16 '96-on / GTI 6 competition cam belt £37

FOLGTI6H - 306 GTI6 hydraulic cam followers £240

PULDGTI6 - Pr 306 GTI6 vernier pulleys £180 (Note:For competition use)

TBP28 - Peugeot S16 '96-on / GTI 6 competition cam belt £37

SC14 - 306 GTI6 steel valve spring retainers £68

CAMSHAFTS PEUGEOT 306 TURBO DIESEL

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
PEUGTDBP270	FAST ROAD	1500-6500	15 BHP	236 deg	244 deg	.350" 8.90mm	.365" 9.26mm	6 - 50 54 - 10	112 deg	.022" 0.56mm	.027" 0.68mm	.016" / .40mm .019" / .47mm	£250 Blank	

PEUGEOT 206 2.0 HDI

Valve lift quoted assumes a rocker ratio of 1.7:1

PHDIBP270	FAST ROAD	1500-6500	8 BHP	258 deg	256 deg	.365" 9.26mm	.383" 9.73mm	19 - 59 58 - 18	110 deg	110 deg	N/A	N/A	HYDRAULIC	£120 Repro
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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	£272 Blank
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	£272 Blank

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" 8.68mm	.342" 8.68mm	20 - 60 60 - 20	110 deg	.026" 0.66mm	.024" 0.60mm	.010" / .25mm .012" / .30mm	£120 Repro £190 Blank
R5TBP285	ULTIMATE ROAD	2500-6500	20 BHP	270 deg	270 deg	.392" 9.95mm	.390" 9.90mm	23 - 67 67 - 23	112 deg	.037" 0.94mm	.035" 0.89mm	.010" / .25mm .012" / .30mm	£190 Blank
R5TBP300	RALLY	2500-6500	20 BHP	276 deg	276 deg	.362" 9.19mm	.360" 9.14mm	26 - 70 71 - 25	112 deg	.068" 1.73mm	.062" 1.57mm	.008" / .20mm .010" / .25mm	£190 Blank

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	N/A	HYDRAULIC	£292 Repro
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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	Price exc.VAT
KBR5T270 / 285	X		X							X	X	£310 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSR5 - Renault 5 Turbo vernier pulley £100

VSSR5 - Renault 5 Turbo valve spring set £50

PULDPOR - Porsche 924 vernier pulley £100

FOLPOR - Porsche 924 lightweight cam followers £200

PULD306TD - Peugeot 306 TD vernier pulley £100

SC27 - 206 GTI steel valve spring retainer £68

SC28 - 206 GTI steel valve spring retainer (solid follower) £68

VSS206A - 206 GTI single valve spring & retainer set £155

VSS206B - 206 GTI single valve spring & retainer set (solid followers)£155

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
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	£200 Repro £390 Blank
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	£200 Repro £390 Blank
R16VBP285H	ULTIMATE ROAD Vernier pulleys recommended	2500-7300	18 BHP	276 deg	276 deg	.428" 10.87mm	.428" 10.87mm	32 - 64 64 - 32	106 deg	106 deg	.086" 2.18mm	.086" 2.18mm	HYDRAULIC	£390 Blank
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	£390 Blank
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	.010" / .25mm .010" / .25mm	£390 Blank

ROVER K SERIES V6 2.5 KV6

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available - Please ask

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	£460 Blank
ARKV6BP285M	ULTIMATE ROAD Not recommended for use with std injection.			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	£460 Blank

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	£200 Repro
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	£200 Repro
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	£200 Repro
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	£200 Repro

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	Price exc.VAT
KBR16V270H	X	X										X	£400 Repro £590 Blank
KBRW16V270H	X	X										X	£400 Repro £590 Blank
KBR16V285H	X	X										X	£590 Blank

ROVER K SERIES V6 2.5 KV6 INCLUDE:

KBARKV6270	X	X										X	£780 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDCLIO - Pr clio 16v alloy vernier pulleys £180
 TBP16 - Clío 16v competition cam belt £37
 FOLTH - T series hydraulic cam follower set £240
 FOLTM - T series solid cam follower & shim set £350
 FOLCLIOH - Clío 16v hydraulic cam followers £240
 FOLCLIOM - Clío 16v comp.solid cam followers £350

PULDKV6 - Pair KV6 alloy vernier pulleys £180 (Rear Only)
 FOLKV6H - KV6 hydraulic cam follower set £360
 VSSKV6 - Uprated single valve spring set £157.50
 VDSKV6 - Uprated double valve spring set £217.50

CAMSHAFTS ROVER K SERIES 16v

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles are available. Ask for details

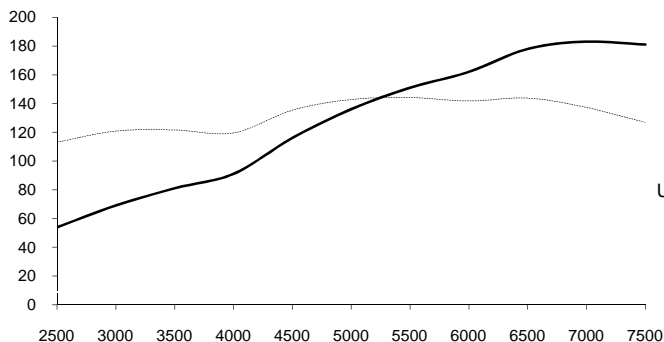
Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
ARKBP255H	FAST ROAD Designed for use in 1400 engine.Vernier pulleys advised.	2000-7000	10 BHP	248 deg	248 deg	.348" 8.84mm	.348" 8.84mm	14 - 54 54 - 14	110 deg	110 deg	.045" 1.14mm	.045" 1.14mm	HYDRAULIC	£388 Blank
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	£388 Blank
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	£140 Repro
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	£388 Blank
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	£388 Blank
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	£388 Blank
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	£388 Blank
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	£388 Blank
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	£388 Blank

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	Price exc.VAT
KBARK270	X	X										X	£550 Blank
KBARK285	X	X		X								X	£630 Blank

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 & Gaskets	Actuator Plate Cover	Timing Belt	Vernier Pulley	Timing Disc & Lube	Price exc.VAT
KK1 HYD	X			X				X	X		X	X	£780 Blank
KK2 COMP	X	X	X			X	X	X	X		X	X	£1260 Blank



**K SERIES 1.8 16V
BP285H CAMS
UNMODIFIED VVC HEAD
THROTTLE BODIES
184BHP @ 7200
144LB/FT @ 5500**

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 cam any spec £199
- TBP17 - K series wide competition cam belt £37
- FOLKH - K series hydraulic cam follower set £240
- FOLKM - K series solid cam follower & shim set £350
- PLATES - K series end/actuator cover plate gasket set £115
- ROTOR - K Series rotor arm attachment £20

- PULDK - Pair K series alloy vernier pulleys £180
- VDSK - Uprated double valve spring set £145
- VSSK - Uprated single valve spring set £105
- SC3 - Steel spring cap set to suit FOLKM £68
- SC19 - Steel spring cap set to suit FOLKH £68

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 Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£188 Blank	
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	£188 Blank	
V8BP270i	FAST ROAD INJECTION <small>Can also be used in a 'carb' engine to produce massive low down torque</small>	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	£188 Blank	
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	£188 Blank	
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	£188 Blank	
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	£188 Blank	
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	£188 Blank	
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	£188 Blank	

ROVER V8 4.0 / 4.6 (ENGINES WITH NO DISTRIBUTOR)

V846BP270	FAST ROAD	1000-5500	21 BHP	280 deg	268 deg	.450" 11.42mm	.467" 11.87mm	28 - 72 66 - 22	112 deg	.054" 1.37mm	.064" 1.63mm	HYDRAULIC	£232 Blank
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	£232 Blank

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	Price exc.VAT
KBV8255 / 270 / 270i / 285 / 300	X	X	X								X	£380 Blank

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

KBV846270 / 285	X	X	X								X	£420 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSV8 - Rover V8 vernier duplex kit £101

FOLV8 - Rover V8 cam hydraulic follower set £126

FOLV8M - Rover V8 cam solid follower set £131

VSSV8 - Uprated single valve spring set £100

VTSV8 - Triple valve spring set £140

TCV8 - Duplex timing chain £17.50

CAMSHAFTS SEAT - SEE V.A.G.

PIPER CAMS

SUBARU IMPREZA TURBO

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 & 6 ENGINES

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
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	£340 Rebro £600 Blank
SUBBP285H	ULTIMATE ROAD HYDRAULIC NEW	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	£600 Blank
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	£340 Rebro £600 Blank
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	£340 Rebro £600 Blank

SUZUKI SWIFT GTI 16v

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	£200 Rebro
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	£200 Rebro
SSBP300	RALLY	4000-8500		290 deg	290 deg	.356" 9.04mm	.356" 9.04mm	41 - 69 69 - 41	104 deg	104 deg	.108" 2.74mm	.106" 2.69mm	.008" / .20mm .010" / .25mm	£200 Rebro

TALBOT (HILLMAN) IMP

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

IMPBP270	FAST ROAD	2000-7000		276 deg	276 deg	.294" 7.45mm	.292" 7.40mm	29 - 67 67 - 29	109 deg	109 deg	.056" 1.42mm	.054" 1.37mm	.008" / .20mm .010" / .25mm	£120 Rebro £400 Billet
IMPBP285	ULTIMATE ROAD Repro only available on Imp Sport cam.	3000-7500		284 deg	284 deg	.323" 8.20mm	.321" 8.15mm	33 - 71 71 - 33	109 deg	109 deg	.084" 2.13mm	.082" 2.08mm	.008" / .20mm .010" / .25mm	£120 Rebro £400 Billet
IMPBP300	RALLY	4000-8000		286 deg	286 deg	.352" 8.94mm	.350" 8.89mm	37 - 69 69 - 37	106 deg	106 deg	.132" 3.35mm	.130" 3.30mm	.014" / .30mm .016" / .35mm	£120 Rebro £400 Billet
IMPBP320	RACE	4500-8500		300 deg	300 deg	.355" 9.00mm	.353" 8.95mm	47 - 73 73 - 47	103 deg	103 deg	.152" 3.86mm	.150" 3.81mm	.008" / .20mm .010" / .25mm	£120 Rebro £400 Billet

TOYOTA 4AGE 16v

Valve lifts quoted assume a rocker ratio of 1:1

TOY16VBP270	FAST ROAD	2000-6500	9 BHP	252 deg	252 deg	.303" 7.70mm	.303" 7.70mm	16 - 56 56 - 16	110 deg	110 deg	.037" 0.94mm	.035" 0.89mm	.008" / .20mm .010" / .25mm	£400 Blank
TOY16VBP285	ULTIMATE ROAD Not recommended for use with std injection	2800-7500	12 BHP	288 deg	288 deg	.353" 8.94mm	.351" 8.89mm	38 - 70 70 - 38	106 deg	108 deg	.096" 2.41mm	.094" 2.36mm	.008" / .20mm .010" / .25mm	£400 Blank
TOY16VBP300	RALLY	3000-8000		300 deg	300 deg	.351" 8.89mm	.349" 8.84mm	44 - 76 76 - 44	106 deg	106 deg	.144" 3.62mm	.142" 3.57mm	.008" / .20mm .010" / .25mm	£400 Blank
TOY16VBP320	RACE For use with "shim under" buckets	4000-9000		326 deg	326 deg	.375" 9.49mm	.373" 9.44mm	57 - 89 89 - 57	106 deg	106 deg	.158" 4.01mm	.156" 3.96mm	.008" / .20mm .010" / .25mm	£400 Blank

CAMSHAFTS TOYOTA 4AGE 1.6 20v**PIPER CAMS**

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£520 Blank
TOY20VBP285	ULTIMATE ROAD	2500-8000		276 deg	264 deg	.340" 8.64mm	.340" 8.64mm	30 - 66 60 - 24	108 deg	108 deg	.073" 1.84mm	.055" 1.39mm	.010" / .25mm .012" / .30mm	£520 Blank
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	£520 Blank
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	£520 Blank

TOYOTA CELICA VVTLI

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

Part No.	Application	Power Band	Power Increase	Duration				Valve Lift				Valve Clearance	Price exc.VAT
				Inlet		Exhaust		Inlet		Exhaust			
				Low	High	Low	High	Low	High	Low	High		
VVTLIBP270	FAST ROAD	2000-8500	15 BHP	268deg	288deg	268deg	284deg	.362" 9.20mm	.472" 12.00mm	.362" 9.20mm	.433" 11.00mm	.008" / .20mm .010" / .25mm	£530 Blank
VVTLIBP285	ULTIMATE ROAD	2000-8500		276deg	288deg	276deg	284deg	.382" 9.70mm	.482" 12.30mm	.380" 9.65mm	.445" 11.30mm	.008" / .20mm .010" / .25mm	£530 Blank
VVTLIBP320	RACE	2000-8500		276deg	304deg	276deg	296deg	.382" 9.70mm	.500" 12.70mm	.380" 9.65mm	.460" 11.68mm	.008" / .20mm .010" / .25mm	£530 Blank

TOYOTA MR2 MK2 / CELICA 2.0 16v 3SGE & 3SGTE TURBO

Reprofiled cams will required oversize shims

Valve lifts quoted assume a rocker ratio of 1:1

Blank cams ground with standard BCD. Due to the extra lift the head maybe require machining in pre1994 engines

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
TOYSGBP270	FAST ROAD NATURALLY ASPIRATED	2000-6500	10 BHP	260 deg	260 deg	.369" 9.37mm	.367" 9.32mm	20 - 60 60 - 20	110 deg	110 deg	.042" 1.06mm	.040" 1.01mm	.010" / .25mm .012" / .30mm	£200 Repr £400 Blank
TOYSGBP270T	FAST ROAD TURBO	2000-6500	14 BHP	260 deg	260 deg	.369" 9.37mm	.367" 9.32mm	20 - 60 60 - 20	110 deg	110 deg	.042" 1.06mm	.040" 1.01mm	.010" / .25mm .012" / .30mm	£200 Repr £400 Blank
TOYSGBP285	ULTIMATE ROAD NATURALLY ASPIRATED	2500-7000	14 BHP	264 deg	264 deg	.412" 10.47mm	.410" 10.42mm	24 - 60 60 - 24	108 deg	108 deg	.071" 1.78mm	.069" 1.68mm	.008" / .20mm .010" / .25mm	£200 Repr £400 Blank
TOYSGBP285T	ULTIMATE ROAD TURBO	2500-7000	20BHP	264 deg	264 deg	.412" 10.47mm	.410" 10.42mm	22 - 62 62 - 22	110 deg	110 deg	.062" 1.58mm	.060" 1.52mm	.008" / .20mm .010" / .25mm	£200 Repr £400 Blank
TOYSGTBP300	RALLY NATURALLY ASPIRATED	2500-7000		272 deg	272 deg	.430" 10.92mm	.428" 10.87mm	28 - 64 66 - 26	108 deg	110 deg	.072" 1.83mm	.060" 1.52mm	.010" / .25mm .012" / .30mm	£200 Repr £400 Blank

TOYOTA SUPRA 2JZ

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
TOY2JZBP270	FAST ROAD	2000-6500	25 BHP	264 deg	264 deg	.365" 9.05mm	.354" 9.00mm	22 - 62 62 - 22	110 deg	110 deg	.040" 1.02mm	.038" 0.97mm	.010" / .25mm .012" / .30mm	£450 Blank
TOY2JZBP285	ULTIMATE ROAD	2500-7000		264 deg	272 deg	.376" 9.55mm	.374" 9.50mm	22 - 62 66 - 26	110 deg	110 deg	.044" 1.12mm	.054" 1.37mm	.010" / .25mm .012" / .30mm	£450 Blank
TOY2JZBP300	RALLY	3000-7500		272 deg	280 deg	.423" 10.74mm	.421" 10.69mm	26 - 66 70 - 30	110 deg	110 deg	.076" 1.94mm	.092" 2.34mm	.010" / .25mm .012" / .30mm	£450 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULD3SG - Toyota 3SG / 3SGTE vernier pulleys £180

VSS3SG - TOYOTA 3SGE / 3SGTE single valve spring set £105

VDS3SG - TOYOTA 3SGE / 23SGTE double valve spring set £155

CAMSHAFTS TRIUMPH 1.2 / 1.3 / 1.5 4 Cyl

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1.5:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
TRBP255	MILD ROAD	1500-5800	6 BHP	252 deg	252 deg	.380" 9.65mm	.380" 9.65mm	17 - 55 55 - 17	109 deg	.042" 1.06mm	.040" 1.01mm	.022" / .55mm .024" / .60mm	£90 Reppo £150 Blank	
TRBP270	FAST ROAD	2000-6400	10 BHP	268 deg	268 deg	.414" 10.52mm	.412" 10.47mm	26 - 62 62 - 26	108 deg	.070" 1.77mm	.068" 1.72mm	.012" / .30mm .014" / .35mm	£90 Reppo £150 Blank	
TRBP285	ULTIMATE ROAD	2800-6800	14 BHP	284 deg	284 deg	.414" 10.52mm	.414" 10.52mm	36 - 68 68 - 36	106 deg	.112" 2.84mm	.114" 2.89mm	.012" / .30mm .014" / .35mm	£90 Reppo £150 Blank	
TRBP300	RALLY	3500-7500		300 deg	300 deg	.445" 11.30mm	.445" 11.30mm	44 - 76 76 - 44	106 deg	.125" 3.18mm	.123" 3.12mm	.016" / .40mm .018" / .45mm	£90 Reppo £150 Blank	

TRIUMPH TR 3 / 4

Valve lifts quoted assume a rocker ratio of 1.5:1

All blank cams are chill cast.

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	£80 Reppo £150 Blank
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	£80 Reppo £150 Blank
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	£80 Reppo £150 Blank
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	£150 Blank

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" 9.65mm	.380" 9.65mm	17 - 55 55 - 17	109 deg	.042" 1.06mm	.040" 1.01mm	.022" / .55mm .024" / .60mm	£145 Reppo £200 Blank
TR6BP270	FAST ROAD	1500-6000	12 BHP	264 deg	264 deg	.406" 10.31mm	.406" 10.31mm	24 - 60 60 - 24	108 deg	.070" 1.77mm	.068" 1.72mm	.016" / .40mm .018" / .45mm	£145 Reppo £200 Blank
TR6BP285	ULTIMATE ROAD	2500-6500	16 BHP	284 deg	284 deg	.414" 10.52mm	.414" 10.52mm	36 - 68 68 - 36	106 deg	.112" 2.84mm	.114" 2.89mm	.012" / .30mm .014" / .35mm	£145 Reppo £200 Blank
TR6BP300	RALLY	2800-7000		300 deg	300 deg	.445" 11.30mm	.445" 11.30mm	44 - 76 76 - 44	106 deg	.125" 3.18mm	.123" 3.12mm	.016" / .40mm .018" / .45mm	£145 Reppo £200 Blank
TR6BP320	RACE	3200-7500		312 deg	312 deg	.490" 12.45mm	.490" 12.45mm	52 - 80 80 - 52	104 deg	.180" 4.57mm	.178" 4.52mm	.014" / .35mm .016" / .40mm	£145 Reppo £200 Blank

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	Price exc.VAT
KBTR270 / 285	X	X	X								X	£160 Reppo £220 Blank

TRIUMPH 2.0 / 2.5 6 Cyl

KBTR6270 / 285	X	X	X								X	£225 Reppo £270 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSTR6 - Triumph 6 cyl single spring set £60
VDSTR6 - Triumph 6 cyl double spring set £90
FOLT6 - Triumph 6 cyl cam follower set £78

CAMSHAFTS TRIUMPH DOLOMITE SPRINT 16v**PIPER CAMS**

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	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
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	£120 Rebro £515 Billet	
TRSBP285	ULTIMATE ROAD	2500-7000	12 BHP	296 deg	296 deg	.426" 10.82mm	.424" 10.77mm	40 - 76 76 - 40	108 deg	.139" 3.53mm	.137" 3.48mm	.008" / .20mm .010" / .25mm	£120 Rebro £515 Billet	
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	£120 Rebro £515 Billet	
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	£120 Rebro £515 Billet	

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	£150 Blank
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	£150 Blank
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	£150 Blank
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	£150 Blank
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	£150 Blank

VAUXHALL / OPEL CARLTON / SENATOR 6 Cyl

Valve lifts quoted assume a rocker ratio of 1.52:1

Solid followers must be used with this range of camshafts

OP6BP255	MILD ROAD	1500-5800	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	£180 Blank
OP6BP270	FAST ROAD	1800-6200	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	£180 Blank
OP6BP285	ULTIMATE ROAD	2200-6750	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	£180 Blank

VAUXHALL OPEL OMEGA / VECTRA 2.5 / 3.0 V6 24v

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	£320 Rebro £560 Blank
OPV6BP270B	FAST ROAD	For use in 3.0 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	£320 Rebro £560 Blank

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	Price exc.VAT
KBOP270 / 285 / 300 / 320	X	X	X								X	£280 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSOP - Vauxhall CIH vernier duplex kit £120

FOLOP - Vauxhall CIH 4 cyl solid cam follower set £90

VSSOP - Vauxhall CIH 4 cyl single spring/seat kit £80

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

PIPER CAMS

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£180 Blank	
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	£180 Blank	
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	£180 Blank	
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	£180 Blank	
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	£180 Blank	
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	£180 Blank	

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	£180 Blank
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	£180 Blank
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	£180 Blank
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	£180 Blank
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	£180 Blank

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	Price exc.VAT
KBV13270H / 270HI / 285H	X	X		X							X	£295 Blank
KBV13300H / 320H	X	X	X	X							X	£320 Blank

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

KBV18270HA / 270HB / 285	X	X		X							X	£295 Blank
KBV18300H / 320H	X	X	X	X							X	£320 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDA13 - Vauxhall 1.3 alloy vernier pulley £95

PULDGTE - Vauxhall 1.4/1.6 GTE vernier pulley £95

PULDA18 - Vauxhall 1.8/2.0 alloy vernier pulley £95

VSSAST18 - Vauxhall 1.6/1.8 single spring kit £54

ASTADJH - Vauxhall fwd hydraulic adjusters £65

ASTADJM - Vauxhall fwd solid adjusters £295

FOLAST - Vauxhall fwd cam follower set £100

FOLASTM - Vaux fwd follower set for use with ASTADJM £112

VSSAST13 - Vauxhall 1.3/1.4/1.6 single spring kit £55

TBP18 - Vauxhall 1.3 1980 on comp.cam belt £25

TBP19 - Vauxhall 1.4/1.6 (104 tooth) comp.cam belt £25

TBP20 - Vauxhall 1.4/1.6 (111 tooth) comp.cam belt £25

TBP21 - Vauxhall 1.6/1.8/2.0 comp.cam belt £25

CAMSHAFTS VAUXHALL / OPEL CORSA / TIGRA 1.4 / 1.6 16v**PIPER CAMS**

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£200 Repro £390 Blank
C16VBP285H	ULTIMATE ROAD <small>Not recommended for use with std injection.</small>	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	£390 Blank
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	£390 Blank
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	£390 Blank
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	£390 Blank

VAUXHALL ASTRA / VX220 2.2 16v

Valve lifts quoted assume a rocker ratio of 1.72:1

VX22BP270	FAST ROAD	2000-6800	10 BHP	260 deg	260 deg	.423" 10.74mm	.423" 10.74mm	23 - 63 63 - 23	110 deg	110 deg	N/A	N/A	HYDRAULIC	£292 Repro
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VAUXHALL / OPEL 2.0 / 2.2 ECOTEC 16v

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

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	£200 Repro £390 Blank
ECOBP285H	ULTIMATE ROAD <small>Not recommended for use with std injection</small>	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	£390 Blank
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	£390 Blank

CAM KITS**VAUXHALL / OPEL CORSA / TIGRA 1.4 / 1.6 16v**

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube	Price exc.VAT
KBC16V270H	X	X									X	£400 Repro £590 Blank
KBC16V285H	X	X									X	£590 Blank
KBC16V300H	X	X	X								X	£700 Blank

VAUXHALL / OPEL 1.8 / 2.0 / 2.2 ECOTEC 16v INCLUDE:

KBECO270H / 285H	X	X									X	£400 Repro £590 Blank
KBECO285H	X	X									X	£590 Blank
KBECO300H	X	X	X								X	£700 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDCOR - Pr vauxhall corsa 16v alloy vernier pulleys £170

PULDECO - Pr vauxhall ecotec alloy vernier pulleys £170

TBP36 - Vauxhall Ecotec 1.8/2.0 cam belt £37

VDSCOR - Vauxhall corsa 16v double valve spring kit £220

SC16 - Vauxhall corsa 16v steel valve spring retainers £68

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

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
Z18BP270	FAST ROAD	NEW 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	£200 Repr £390 Blank

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	£200 Repr £390 Blank
A16VBP270HT	FAST ROAD TURBO	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	£200 Repr £390 Blank
A16VBP285H	ULTIMATE ROAD	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	£390 Blank
A16VBP300H	RALLY	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	£390 Blank
A16VBP300M	RALLY	3000-8000		290 deg	280 deg	.455" 11.56mm	.420" 10.67mm	34 - 66 66 - 34	106 deg	106 deg	.138" 3.51mm	.106" 2.69mm	.012" / .30mm .012" / .30mm	£390 Blank
A16VBP320M	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	£390 Blank
A16VHOTROD	RACE HOT ROD	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	£390 Blank
A16VPICKUP	RACE PICK UP	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	£390 Blank
A16V2072	RACE HOT ROD 2006	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	£390 Blank

VAUXHALL ASTRA VXR 2.0 TURBO Z20LEH

Valve lifts quoted assume a rocker ratio of 1:1

VXRBP270H	FAST ROAD	1500-6700	15 BHP	252 deg	240 deg	.377" 9.58mm	.377" 9.58mm	16 - 56 50 - 10	110 deg	110 deg	.030" 0.76mm	.016" 0.40mm	HYDRAULIC	£200 Repr £390 Blank
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CAM KITS VAUXHALL / OPEL CORSA / ASTRA 1.8 ECOTEC 16v Z18XE

Part No.	Cams	Followers	Valve Springs	Spring Seats	Stem Seals	Spring Caps	Spray Bar	Ball Studs	Timing Belt	Vernier Pulley	Timing Disc & Lube	Price exc.VAT
KBZ18270H	X	X									X	£400 Repr £590 Blank

VAUXHALL / OPEL ASTRA / CAVALIER / CALIBRA 16v C20XE

KBA16V270H / 270HT	X	X									X	£400 Repr £590 Blank
KBA16V285H / 300H	X	X	X								X	£700 Blank

VAUXHALL ASTRA VXR 2.0 TURBO Z20LEH

KBVXR270H	X	X									X	£400 Repr £590 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDA20 - Pr Vauxhall 2.0 16v alloy vernier pulleys £170

PULDA20B - Pr Vauxhall 2.0 16v '93-on alloy vernier pulleys £170

VDSAST16 - Vauxhall 2.0 16v double valve spring kit £220

SC17 - Vauxhall 2.0 16v steel valve spring retainers £68

FOLAST16H - Vauxhall 16v hydraulic follower set £240

FOLAST16M - Vauxhall 16v comp.solid follower set £350

TBP22 - Vauxhall 2.0 16v >92 competition cam belt £37

TBP35 - Vauxhall 2.0 16v 93> competition cam belt £37

TBP42 - Vauxhall Z18XE comp cam belt £37

CAMSHAFTS V.A.G. 5 CYLINDER 10V**PIPER CAMS**

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
AUD5BP270HT	FAST ROAD TURBO	1800-6000	20 BHP	264 deg	264 deg	.428" 10.67mm	.428" 10.87mm	22 - 62 62 - 22	110 deg	.059" 1.51mm	.059" 1.51mm	HYDRAULIC	£320 Blank	
AUD5BP270H	FAST ROAD	1500-6000	14 BHP	268 deg	268 deg	.438" 11.13mm	.438" 11.13mm	24 - 64 64 - 24	110 deg	.064" 1.62mm	.064" 1.62mm	HYDRAULIC	£320 Blank	
AUD5BP285H	ULTIMATE ROAD	2000-6500	18 BHP	276 deg	276 deg	.450" 11.43mm	.450" 11.43mm	30 - 66 66 - 30	108 deg	.104" 2.64mm	.104" 2.64mm	HYDRAULIC	£320 Blank	

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

Valve lifts quoted assume a rocker ratio of 1:1

These cams do not have a fuel pump lobe, therefore an electric pump will be required

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	£184 Blank
G40BP270H	FAST ROAD	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	£184 Blank
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	£184 Blank
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	£184 Blank

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" 10.67mm	.420" 10.67mm	30 - 66 66 - 30	108 deg	.102" 2.59mm	.100" 2.54mm	.008" / .20mm .010" / .25mm	£184 Blank
GTIBP285	ULTIMATE ROAD	2200-6500	14 BHP	280 deg	280 deg	.430" 10.92mm	.428" 10.87mm	34 - 66 66 - 34	106 deg	.119" 3.02mm	.117" 2.97mm	.010" / .25mm .012" / .30mm	£184 Blank
GTIBP300	RALLY	3000-7300		304 deg	304 deg	.435" 11.05mm	.435" 11.05mm	48 - 76 76 - 48	104 deg	.166" 4.22mm	.164" 4.17mm	.010" / .25mm .012" / .30mm	£184 Blank
GTIBP320	RACE	3500-8000		316 deg	316 deg	.435" 11.05mm	.435" 11.05mm	54 - 82 82 - 54	104 deg	.171" 4.34mm	.169" 4.29mm	.008" / .20mm .010" / .25mm	£184 Blank
GTI528	RACE HOT ROD	4000-8500+		328 deg	328 deg	.552" 14.02mm	.552" 14.02mm	62 - 86 86 - 62	102 deg	.238" 6.04mm	.236" 5.99mm	.008" / .20mm .010" / .25mm	£184 Blank

CAM KITS**V.A.G. GOLF / POLO 1400 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	Price exc.VAT
KBVP270H / 285H / 300H	X	X									X	£300 Blank
KBG40270H	X	X									X	£300 Blank

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

KBVG270 / 285	X									X	X	£265 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDGTI - VW Golf Gti 8v/G60 vernier pulley £100

FOLVWH - VW Golf hydraulic cam follower set £120

TBP23 - VW Golf 1.5/1.6/1.8 comp.cam belt £25

CAMSHAFTS V.A.G. GOLF GTI 1800 8v HYDRAULIC

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
GTIBP270H	FAST ROAD	2000-6200	10 BHP	260 deg	260 deg	.428" 10.87mm	.428" 10.87mm	22 - 58 58 - 22	108 deg	.108" / 2.74mm	.108" / 2.74mm	HYDRAULIC	£184 Blank	
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	£184 Blank	
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	£184 Blank	

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 deg	.417" 10.59mm	.428" 10.87mm	18 - 58 62 - 22	110 deg	.043" / 1.09mm	.063" / 1.60mm	HYDRAULIC	£184 Blank
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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	£184 Blank
G60BP285H	ULTIMATE ROAD	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	£184 Blank

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	Price exc.VAT
KBVG270H / 285H / 300H	X	X									X	£300 Blank

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

KBVG20270	X	X									X	£300 Blank
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V.A.G. GOLF G60 SUPERCHARGED INCLUDE:

KBG60270 / 285	X	X									X	£300 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDGTI - VW Golf Gti 8v/G60 alloy vernier pulley £100
FOLVWH - VW Golf hydraulic cam follower set £120

TBP23 - VW Golf 1.5/1.6/1.8 comp.cam belt £25
TBP24 - VW Golf 2.0 competition cam belt £25

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

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl Exh	Inl Exh		
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	£200 Repro £390 Blank
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	£390 Blank
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	£390 Blank
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	£390 Blank
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	.012" / .30mm	£390 Blank

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

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl Exh	Inl Exh		
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	£220 Repro £390 Blank
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	£390 Blank
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	£390 Blank

V.A.G. 1.8T 20v

Valve lifts quoted assume a rocker ration of 1:1

Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl Exh	Inl Exh		
AUD20TBP270	FAST ROAD NEW	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	£460 Blank
AUD20TBP285	ULTIMATE ROAD NEW	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	£460 Blank
AUD20TBP300	COMPETITION / TRACK DAY NEW	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	£460 Blank

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	Price exc.VAT
KBV16V270H / 285H / 300H	X	X									X	£381 Repro £580 Blank

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

KBVR6270H / 285H / 300H	X	X									X	£391 Repro £580 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDV16V - VW Golf 16v alloy vernier pulley £100
 PULSV16V - VW Golf 16v internal vernier sprocket £58
 FOLVW16H - VW Golf 16v hydraulic cam follower set £240
 FOLVW16M - VW Golf 16v comp.solid cam follower set £350
 FOLVR6H - VW Golf VR6 hydraulic cam follower set £180

PULDV20V - VW / AUDI 1.8T 20v alloy vernier pulley £100
 TBP40 - Early VAG 1.8T 20v comp.cam belt £37
 TBP41 - Late VAG 1.8T 20v comp.cam belt £37
 TBP25 - VW Golf 1.8 16v comp.cam belt £37
 TBP29 - VW Golf 2.0 16v comp.cam belt £37

CAMSHAFTS VOLVO B18

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

Part No.	Application		Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price exc.VAT
					Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
VB18BP270	FAST ROAD	NEW	1500-6000	10 BHP	276 deg	276 deg	.379" 9.63mm	.377" 9.58mm	28 - 68 68 - 28	110 deg	110 deg	.054" 1.36mm	.052" 1.31mm	.012" / .30mm .014" / .35mm	£120 Repr £180 Blank
VB18BP285	ULTIMATE ROAD	NEW	2000-6500	14 BHP	280 deg	280 deg	.426" 10.81mm	.424" 10.76mm	32 - 68 68 - 32	108 deg	108 deg	.097" 2.45mm	.095" 2.40mm	.017" / .43mm .019" / .48mm	£120 Repr £180 Blank
VB18BP300	RALLY	NEW	3000-7000		300 deg	300 deg	.444" 11.27mm	.442" 11.22mm	44 - 76 76 - 44	106 deg	106 deg	.124" 3.14mm	.122" 3.09mm	.017" / .43mm .019" / .48mm	£120 Repr £180 Blank
VB18BP320	RACE	NEW	3700-7500		314 deg	314 deg	.506" 12.86mm	.504" 12.81mm	53 - 81 81 - 53	104 deg	104 deg	.180" 4.56mm	.178" 4.51mm	.016" / .40mm .018" / .45mm	£180 Blank

VOLVO T5

Valve lifts quoted assume a rocker ratio of 1:1

V5BP270H	FAST ROAD	NEW	1800-6500	15 BHP	248 deg	248 deg	.348" 8.84mm	.310" 7.87mm	14 - 54 54 - 14	110 deg	110 deg	.045" 1.14mm	.009" 0.22mm	HYDRAULIC	£250 Repr
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLB18 - SET VOLVO B18 CAM FOLLOWERS £60

VDSB18 - SET VOLVO B18 DOUBLE VALVE SPRING KIT INC CAPS & SEATS £140

SC40 - SET VOLVO B18 SPRING CAPS £40

SSB18 - SET VOLVO B18 SPRING SEATS £32

PIPER CAMS**CAM FOLLOWERS**

PART NO.	DESCRIPTION	PRICE
ALFA		
FOLAR16V	ALFA ROMEO 2.0 16v HYD	£ 240.00
AUSTIN		
FOLAHR	HEALEY 3000 RACE	£ 160.00
BMC		
FOLMIN	A SERIES	£ 35.00
FOLB	POST '71 B SERIES	£ 35.00
FOLB2	PRE '71 B SERIES	£ 60.00
FORD		
FOLBDA	BDA	£ 360.00
FOLCOSH	COSWORTH 16V HYD	£ 240.00
FOLCOSM	COSWORTH 16V MEC	£ 360.00
FOLCVH	CVH HYD	£ 88.00
FOLCVHS	CVH SOLID LIFTERS	£ 170.00
FOLFN	PRE XFLOW NARROW STEM	£ 64.00
FOLFW	XFLOW 711M WIDE STEM	£ 44.00
FOLOHC	OHC 1.6/2.0	£ 55.00
FOLV6	V6 3.0 ESSEX	£ 80.00
FOLV6G	V6 2.3/2.8/2.9 GERMAN	£ 80.00
FOLZETAH	ZETEC HYD	£ 240.00
FOLZETAM	ZETEC MEC	£ 360.00
FOLKA	KA	£ 44.00
PEUGEOT		
FOLVTSH	106 GTI / SAXO VTS 16V HYD	£ 240.00
FOLVTSM	106 GTI / SAXO VTS 16V MEC	£ 360.00
FOLMi16H	1.9 / 2.0 MI16 16V HYD	£ 240.00
FOLMi16M	1.9 / 2.0 MI16 16V MEC	£ 360.00
FOLGTI6H	306 GTI6 HYD	£ 240.00
FOLGTI6M	306 GTI6 MEC	£ 360.00
FOLP13	205/106 1.3/1.4	£ 160.00
FOLP16	205/309 1.6/1.9	£ 140.00
FOLP206H	206 GTI HYD	£ 240.00
FOLP206M	206 GTI MEC	£ 360.00
RENAULT		
FOLCLIOH	CLIO 16V HYD	£ 240.00
FOLCLIOM	CLIO 16V MEC	£ 360.00

PART NO.	DESCRIPTION	PRICE
ROVER		
FOLKH	K SERIES HYD	£ 240.00
FOLKM	K SERIES MEC	£ 360.00
FOLKV6H	K SERIES V6 HYD	£ 360.00
FOLTH	T SERIES HYD	£ 240.00
FOLTM	T SERIES MEC	£ 360.00
FOLV8	ROVER V8 HYD	£ 130.00
FOLV8M	ROVER V8 MEC	£ 140.00
TRIUMPH		
FOLT	1.2/1.3/1.5 4 CYL	£ 52.00
FOLT6	2.0/2.5 6 CYL	£ 78.00
VAG		
FOLAUD5	AUDI 5 CYL 10V HYD	£ 150.00
FOLVWH	1.3/1.4/1.6/1.8/2.0 HYD	£ 120.00
FOLVW16H	16V HYD	£ 240.00
FOLVW16M	16V MEC	£ 360.00
VAUXHALL		
FOLOP	1.6/1.9/2.0 CIH MEC	£ 90.00
FOLAST	ASTRA 1.3/1.8 FWD	£ 100.00
FOLASTM	ASTRA FWD WITH ADJ HOLES	£ 112.00
FOLAST16H	ASTRA 2.0 16V HYD	£ 240.00
FOLAST16M	ASTRA 2.0 16V MEC	£ 360.00
VOLVO		
FOLVB18	B18	£ 60.00

TOP HAT SHIMS

SHIM63	SHIM TO SUIT 6 MM STEM VALVE 3 MM THICK	£ 4.00
SHIM64	SHIM TO SUIT 6 MM STEM VALVE 4 MM THICK	£ 4.00
SHIM65	SHIM TO SUIT 6 MM STEM VALVE 5 MM THICK	£ 4.00
SHIM66	SHIM TO SUIT 6 MM STEM VALVE 6 MM THICK	£ 4.00
SHIM73	SHIM TO SUIT 7 MM STEM VALVE 3 MM THICK	£ 4.00
SHIM74	SHIM TO SUIT 7 MM STEM VALVE 4 MM THICK	£ 4.00
SHIM75	SHIM TO SUIT 7 MM STEM VALVE 5 MM THICK	£ 4.00
SHIM76	SHIM TO SUIT 7 MM STEM VALVE 6 MM THICK	£ 4.00
SHIM83	SHIM TO SUIT 8 MM STEM VALVE 3 MM THICK	£ 4.00
SHIM84	SHIM TO SUIT 8 MM STEM VALVE 4 MM THICK	£ 4.00
SHIM85	SHIM TO SUIT 8 MM STEM VALVE 5 MM THICK	£ 4.00
SHIM86	SHIM TO SUIT 8 MM STEM VALVE 6 MM THICK	£ 4.00

VERNIER PULLEYS

PIPER CAMS

PART NO.	DESCRIPTION	MATERIAL	PRICE	PART NO.	DESCRIPTION	MATERIAL	PRICE
BMC				PEUGEOT			
PULSMIN	A SERIES DUPLEX KIT	STEEL	£ 90.00	PULDVTR	SAXO VTR	ALLOY	£ 100.00
PULDMIN	A SERIES DUPLEX KIT	ALLOY	£ 100.00	PULDVTS	PR SAXO VTS 16V	ALLOY	£ 180.00
PULSB	B SERIES DUPLEX KIT	STEEL	£ 90.00	PULDMI16	PR MI16	ALLOY	£ 180.00
PULSBS	B SERIES CAM SPROCKET	STEEL	£ 80.00	PULD205	106 1.4 & 205 1.3/1.6/1.9 GTI	ALLOY	£ 100.00
FIAT				PULD306TD	306 1.9 TURBO DIESEL	ALLOY	£ 100.00
PULDUNO	UNO TURBO/PUNTO GT	ALLOY	£ 100.00	PULDXSI	2.0 8v XSi	ALLOY	£ 100.00
PULDX19	X19 / 128 1300/1500 SOHC	ALLOY	£ 100.00	PULDGTI6**	PR 306 GTI6 16V	ALLOY	£ 180.00
PULDFTC	PR 1.6/1.8/2.0 TWIN CAM	ALLOY	£ 180.00	PULD206	PR 206 GTI	ALLOY	£ 180.00
PULDFIRE	FIAT FIRE	ALLOY	£ 100.00	PORSCHE			
FORD				PULDPOR	PORSCHE 924	ALLOY	£ 100.00
PULDOHC	OHC 1.6/2.0 PINTO	ALLOY	£ 80.00	RENAULT			
PULDCVH	CVH 1.3/1.6	ALLOY	£ 80.00	PULSR5	REN 5 GT TURBO	STEEL	£ 100.00
PULSXF	XFLOW DUPLEX KIT	STEEL	£ 90.00	PULDCLIO	PR CLIO 16V	ALLOY	£ 180.00
PULDCOS	PR COSWORTH 16V	ALLOY	£ 165.00	ROVER			
PULDZETA	PR ZETEC 16V	ALLOY	£ 165.00	PULSV8	V8 DUPLEX KIT	STEEL	£ 101.00
PULSDUR	PR DURATEC 16V	STEEL	£ 100.00	PULDK	PR K SERIES	ALLOY	£ 180.00
PULDFOC	PR FOCUS 1.6 16V	ALLOY	£ 165.00	PULDT	PR T SERIES	ALLOY	£ 180.00
PULDPUM	PUMA 1.7 16V EXH ONLY	ALLOY	£ 100.00	PULDKV6	PR K-SERIES V6 (REAR ONLY)	ALLOY	£ 180.00
PULDST170	FOCUS ST170 EXH ONLY	ALLOY	£ 100.00	TOYOTA			
HONDA				PULD3SG	PR TOYOTA 3SGE / 3SGTE	ALLOY	£ 180.00
PULDVTEC	PR VTEC 1.6 16V	ALLOY	£ 180.00	VAG			
JAGUAR				PULDGTI	GOLF 1.6/1.8/2.0 & G60 / AUDI 80	ALLOY	£ 100.00
PULSJAG	SET JAG V6	STEEL	£396.00	PULDV16V	GOLF 16V EXTERNAL PULLEY	ALLOY	£ 100.00
HYUNDAI				PULSV16V	GOLF 16V INTERNAL SPOCKET	STEEL	£ 58.00
PULDHYN	HYUNDAI ACCENT	ALLOY	£ 100.00	PULDV20V	VAG 20V EXTERNAL PULLEY	ALLOY	£ 100.00
MITSUBISHI				VAUXHALL			
PULDMITS	PR MITSUBISHI EVO 4/5/6/7/8	ALLOY	£ 190.00	PULSOP	1.6/1.9/2.0 C.I.H. DUPLEX KIT	STEEL	£ 100.00
PULDMITS9	MITSUBISHI EVO 9 EXH ONLY	ALLOY	£ 110.00	PULDA13	1.3 ASTRA / NOVA	ALLOY	£ 95.00
NISSAN				PULDGTE	1.4/1.6 GTE (ROUND TOOTH)	ALLOY	£ 95.00
PULSSR20	PAIR PULSAR GTIR	STEEL	£ 180.00	PULDA18	1.6/2.0 ASTRA / CAVALIER	ALLOY	£ 95.00
				PULDA20	PR C20XE 2.0 16V UP TO '93	ALLOY	£ 170.00
				PULDA20B	PR C20XE 2.0 16V '93 ON - LOW NOISE	ALLOY	£ 170.00
				PULDCOR**	PR CORSA 16V	ALLOY	£ 170.00

** = These pulleys do not have sensor pick-ups, therefore are only recommended for vehicles with an aftermarket ecu, triggered from else where.

VALVE SPRINGS & SPRING KITS

PIPER CAMS

PART NO.	APPLICATION	CAPS	SEATS	SEALS	TYPE	RATE	NOMINAL I.D.	NOMINAL O.D.	INSTALLED LENGTH	CRUSH HEIGHT	PRICE	
AUSTIN												
VDSA6	HEALEY 3000				DOUBLE	286 lb	18.80 mm	33.00 mm	39.00 mm	21.92 mm	£ 120.00	
BMC												
VDSMIN2	A SERIES				DOUBLE	223 lb	16.00 mm	29.10 mm	35.00 mm	22.02 mm	£ 40.00	
VDSMINR	A SERIES FULL RACE				DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 80.00	
VSSB	B SERIES				SINGLE	240 lb	21.80 mm	30.00 mm	38.00 mm	23.21 mm	£ 40.00	
VDSB2	B SERIES				DOUBLE	228 lb	18.60 mm	33.20 mm	38.00 mm	23.78 mm	£ 44.00	
CITROEN / PEUGEOT												
VSSVTR	SAXO VTR (ROLLER TYPE)				SINGLE	233 lb	20.00mm	28.00mm	37.50 mm	24.80 mm	£ 50.00	
VSSVTR2	SAXO VTR (NON - ROLLER TYPE)				SINGLE	276 lb	20.10mm	28.30mm	40.74 mm	25.01 mm	£ 50.00	
VDSVTS	SAXO VTS 16V	KIT	SC18	YES	DOUBLE	259 lb	13.50mm	25.10mm	37.20 mm	20.46 mm	£ 240.00	
VSSP13	PEUGEOT 1360cc				SINGLE	240 lb	21.80 mm	30.00 mm	38.50 mm	23.21 mm	£ 50.00	
VDSP16	PEUGEOT 1.6/1.9 RACE	KIT	SC35	YES	DOUBLE	286 lb	18.80 mm	33.00 mm	39.00 mm	21.92 mm	£ 160.00	
VDSP306	PEUGEOT 306 GTI 6	KIT	SC14		DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 220.00	
VDSMI16	PEUGEOT MI 16	KIT	SC26		DOUBLE	275 lb	15.60 mm	28.50 mm	37.00 mm	22.27 mm	£ 240.00	
VSSP206A	PEUGEOT 206 GTI - SUIT HYD LIFTERS	KIT	SC27		SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 155.00	
VSSP206B	PEUGEOT 206 GTI - SUIT MEC LIFTERS	KIT	SC28		SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 155.00	
FIAT												
VDSFTC	TWIN CAM 8V				DOUBLE	278 lb	18.05 mm	31.65 mm	37.10 mm	20.30 mm	£ 80.00	
VDSPUN	PUNTO GT TURBO				DOUBLE	278 lb	18.05 mm	31.65 mm	37.10 mm	20.30 mm	£ 80.00	
FORD												
VSSF	XFLOW				SINGLE	246 lb	20.10 mm	27.90 mm	34.00 mm	21.94 mm	£ 40.00	
VDSF2	XFLOW	KIT	SC9	YES	DOUBLE	264 lb	18.35 mm	31.70 mm	32.10 mm	20.00 mm	£ 70.00	
VDSFR	XFLOW RACE	KIT	SC9		DOUBLE	278 lb	18.05 mm	31.65 mm	36.83 mm	20.30 mm	£ 85.00	
VDSFBPR	XFLOW RACE				DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 80.00	
VSSOHC	OHC				SINGLE	240 lb	22.30 mm	30.50 mm	36.80 mm	22.26 mm	£ 55.00	
VDSOHC	OHC RACE				DOUBLE	276 lb	18.05 mm	31.65 mm	37.50 mm	20.30 mm	£ 80.00	
VSSCVH	CVH	KIT		YES	YES	SINGLE	275 lb	23.3 mm	32.00 mm	37.10 mm	23.06 mm	£ 70.00
VDSCVH2	CVH	KIT	SC34	YES	YES	DOUBLE	290 lb	18.35 mm	32.45 mm	37.10 mm	25.00 mm	£ 135.00
VSSV6	V6 3L ESSEX				SINGLE	232 lb	23.95 mm	32.45 mm	38.85 mm	23.16 mm	£ 60.00	
VSSV6G	V6 2.8 COLOGNE				SINGLE	200 lb	25.20 mm	33.90 mm	40.00 mm	25.88 mm	£ 60.00	
VSSZETA	ZETEC 16V 1.6/1.8/2.0 HYD				SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 105.00	
VDSCOS	COSWORTH 16V				DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 155.00	
VSSDUR	DURATEC	KIT	SC20		SINGLE	242 lb	18.08 mm	25.6 mm	38.00 mm	23.50 mm	£ 155.00	
VDSDUR	DURATEC	KIT	SC22	YES	YES	DOUBLE	297 lb	15.50 mm	28.50 mm	38.00 mm	22.27 mm	£ 155.00
VSSFOC16	FOCUS 1.6 16V	KIT	SC24		SINGLE	225 lb	16.00 mm	22.74 mm	38.00 mm	23.00 mm	£ 290.00	
VSSZETA34	FOCUS 2.0 16V	KIT	SC11		SINGLE	171lb	18.00 mm	25.00 mm	34.00 mm	24.00 mm	£ 155.00	
VSSST170	FOCUS ST170	KIT	SC37		SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 155.00	
VSSRS2	RS2000 16v				SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 105.00	

VALVE SPRINGS & SPRING KITS (CONT)

PIPER CAMS

PART NO.	APPLICATION	CAPS	SEATS	SEALS	TYPE	RATE	NOMINAL I.D	NOMINAL O.D	INSTALLED LENGTH	CRUSH HEIGHT	PRICE
HONDA											
VDSVTEC	VTEC 1.6 16V				DOUBLE	263 lb	16.70 mm	29.10 mm	34.00 mm	19.98 mm	£ 155.00
mitsubishi											
VSSMITS	EVO	KIT	SC21		SINGLE	276 lb	20.10 mm	28.30 mm	41.00 mm	25.01mm	£ 180.00
RENAULT											
VSSR5	5 GT TURBO				SINGLE	162 lb	21.70 mm	29.10 mm	34.00 mm	22.03 mm	£ 50.00
VDSMEG	MEGAN / CLIO 16V	KIT	SC29		DOUBLE	301 lb	16.00 mm	30.50 mm	38.50 mm	22.26 mm	£ 190.00
ROVER											
VSSV8	ROVER V8				SINGLE	246lb	22.25 mm	30.75 mm	40.40 mm	25.29 mm	£ 105.00
VTSV8	ROVER V8				TRIPLE	282 lb	16.30 mm	31.05 mm	38.00 mm	21.59 mm	£ 150.00
VSSK	K SERIES 16V				SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 105.00
VDSK	K SERIES 16V				DOUBLE	258 lb	13.50 mm	25.10 mm	37.20 mm	20.46 mm	£ 145.00
VSSK	K SERIES V6 24V				SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 157.50
VDSKV6	K SERIES V6 24V				DOUBLE	258 lb	13.50mm	25.10mm	37.20 mm	20.46 mm	£ 217.50
TOYOTA											
VSS3SG	TOYOTA 2.0 16V 3SGE & 3SGTE				SINGLE	197 lb	20.60 mm	27.70 mm	32.50 mm	18.64 mm	£ 105.00
VDS3SG	TOYOTA 2.0 16V 3SGE & 3SGTE				DOUBLE	280 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 155.00
TRIUMPH											
VSSTR4	1500 SPITFIRE				SINGLE	246 lb	20.10 mm	27.90 mm	35.00 mm	21.94 mm	£ 40.00
VSSTR6	TR6				SINGLE	246 lb	20.10 mm	27.90 mm	35.00 mm	21.94 mm	£ 60.00
VDSTR6	TR6				DOUBLE	277 lb	20.19 mm	29.10 mm	35.00 mm	22.02 mm	£ 90.00
VAUXHALL											
VSSAST13	ASTRA / NOVA 1.3				SINGLE	197 lb	20.60 mm	27.70 mm	32.50 mm	18.64 mm	£ 55.00
VSSAST18	ASTRA / CAV 1.6 / 1.8				SINGLE	160 lb	25.00 mm	33.20 mm	38.00 mm	23.78 mm	£ 55.00
VSSAST16V	ASTRA 16V				SINGLE	246 lb	20.10 mm	27.90 mm	34.00 mm	21.94 mm	£ 105.00
VDSAST16V	ASTRA 2.0 16V	KIT	SC17		DOUBLE	267 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 220.00
VSSOP	C.I.H. 1.6 / 1.9 / 2.0	KIT		YES	SINGLE	251 lb	25.00 mm	34.00 mm	40.00 mm	26.55 mm	£ 80.00
VDSCOR	CORSA 16V	KIT	SC16		DOUBLE	267 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 220.00
VOLVO											
VDSB18	VOLVO B18	KIT	SC40	YES	DOUBLE	312 lb	15.20 mm	27.70 mm	33.00 mm	18.64 mm	£ 140.00

COMPETITION CAM BELTS

PART NO.			PRICE	PART NO.	DESCRIPTION	PRICE
CITROEN / PEUGEOT						
TBP10	AX 1.0/1.1	205 1.0/1.1/1.3 RALLY	£ 25.00	RENAULT		
TBP11	AX 1.4 '88-91	205/309 1.4 '85-93	£ 25.00	TBP16	RENAULT 19 / CLIO 16V 1.8	£ 37.00
TBP13	BX GTI 1.6/1.9 to 01-'92	205 / 309 GTI 1.6/1.9 to 01-'92	£ 25.00	TBP16	RENAULT CLIO 2.0 WILLIAMS / SPIDER 2.0 16V	£ 37.00
TBP15	BX 1.9 MI16 '87-93	309/405 1.9 MI16	£ 37.00	ROVER		
TBP11	SAXO 1.4	106/306 1.4 '91-04 >Mtr 3666765	£ 25.00	TBP17	ROVER K SERIES 1.4/1.6/1.8 16V	£ 37.00
TBP12	SAXO 1.6 VTR '96-04	106 Xsi 1.4 & RALLYE/306 1.6 & 106	£ 25.00	TBP33	ROVER K SERIES 1.8 16V 'Nov 98-on	£ 37.00
TBP39 <i>NEW</i>	SAXO VTS 1.6 16V	106 GTI 16V	£ 37.00	SUBARU		
TBP14	BX/XANTIA 1.6/1.8/2.0 8V	205/309/306 GTI 1.6/1.9 '92-99	£ 25.00	TBP26	SUBARU IMPREZA 2.0 TURBO UP TO '98	£ 65.00
TBP27	XANTIA 2.0 16V	306 2.0 MI16 - (150HP)	£ 37.00	TBP26	SUBARU LEGACY 2.0 TURBO 16V	£ 65.00
TBP28	XANTIA 2.0 16V (132HP)	605 2.0 16V	£ 37.00	VAUXHALL		
TBP11	XSARA 1.4	206/307 1.4 '98-on >Mtr 3666765	£ 25.00	TBP18	VAUX 1.3 1980 ON	£ 25.00
TBP39 <i>NEW</i>	XSARA 1.6 16V	1007 1.6 16V	£ 37.00	TBP19	VAUX 1.4/1.6 8 VALVE UP TO 91 (104 TOOTH)	£ 25.00
TBP28	XSARA 1.8/2.0 16V	306/406 1.8/2.0 16V (132hp)	£ 37.00	TBP20	VAUX 1.2/1.4/1.6 8 VALVE '91-00 (111 TOOTH)	£ 25.00
TBP28	XSARA 2.0 16V (163HP)	306 2.0 16V GTI6 (163HP)	£ 37.00	TBP21	VAUX ASTRA/CAV 1.6/1.8/2.0 J SERIES	£ 25.00
TBP39 <i>NEW</i>	C2/C3/C4 1.6 16V	206/207/307 1.6 16V	£ 37.00	TBP42 <i>NEW</i>	VAUX CORSA B / TIGRA 1.4/1.6 16V '93 -00	£ 37.00
FIAT						
TBP1	FIAT UNO 1.1/1.3/1.3 TURBO & SOHC 1.5		£ 25.00	TBP42 <i>NEW</i>	VAUX CORSA / VECTRA B 1.8 16V X18XE	£ 37.00
TBP2	FIAT UNO 1.4/1.4 TURBO & TIPO 1.3		£ 25.00	TBP22	VAUX ASTRA/CAV 2.0 16V UP TO 1992	£ 37.00
TBP3	FIAT 2.0 TWIN CAM		£ 25.00	TBP35	VAUX ASTRA/CAV 2.0 16V INC TURBO '93-97	£ 37.00
FORD						
TBP4	FORD CVH 1.4/1.6		£ 25.00	TBP36	VAUX ECOTEC 2.0 16V (136HP)	£ 37.00
TBP5	FORD CVH 1.1/1.3		£ 25.00	VAG		
TBP6	FORD SOHC 1.6 NOT SIERRA 1.6 E.MAX		£ 25.00	TBP23	AUDI 80/100 1.6/1.8 & COUPE 2.0 (115HP)	£ 25.00
TBP7	FORD SOHC 1.8/2.0		£ 25.00	TBP24	AUDI 80 2.0 & CABRIOLET 2.0 (115HP)	£ 25.00
TBP8	FORD ZETEC 16V 1.6/1.8/2.0 - SILVER TOP		£ 37.00	TBP25	AUDI 80 2.0 16V & CABRIOLET/COUPE 2.0 16V	£ 37.00
TBP30	FORD FOCUS/MONDEO 1.8/2.0 16v - BLACK TOP		£ 37.00	TBP25	AUDI A6 2.0 16V '94-97	£ 37.00
TBP30	FORD FOCUS 2.0 16V ST170		£ 37.00	TBP40 <i>NEW</i>	AUDI A4/A6 1.8/1.8T 20V 10/94 - 09/01	£ 45.00
TBP31	FORD FIESTA/FOCUS/PUMA 1.25/1.4/1.6 16v		£ 37.00	TBP41 <i>NEW</i>	AUDI TT 1.8/1.8T 20V '98 - 07/06	£ 45.00
TBP37	BDA		£ 37.00	TBP23	SEAT IBIZA/TOLEDO/CORDOBA 1.6/1.8 '93-99	£ 25.00
HONDA						
TBP32	HONDA 1.6 VTEC B16 '89-98		£ 37.00	TBP25	SEAT IBIZA/TOLEDO/CORDOBA 16V (136HP)	£ 37.00
MINI						
TBP32	MINI 1.6 16V		£ 37.00	TBP29	SEAT IBIZA/TOLEDO/CORDOBA 16V (150HP)	£ 37.00
MITSUBISHI						
TBP34	MITSUBISHI ECLIPSE/GALANT 2.0 16V		£ 37.00	TBP41 <i>NEW</i>	SEAT IBIZA 1.8T 20V INC CUPRA 2004 ON	£ 45.00
TBP34	MITSUBISHI EVO 4 / 5 / 6 / 7		£ 37.00	TBP23	VW GOLF/PASSAT 1.5, 1.6 & 1.8 GTI	£ 25.00
NISSAN						
TBP34	NISSAN 1.6 16V		£ 37.00	TBP24	VW GOLF 2.0 8V (115HP)	£ 25.00
PEUGEOT						
TBP39	PEUGEOT 1.6 16V		£ 37.00	TBP25	VW GOLF/SCIROCCO/JETTA 1.8 16V	£ 37.00
RENAULT						
TBP39	RENAULT 1.6 16V		£ 37.00	TBP29	VW GOLF 2.0 16V 93-96	£ 37.00
ROVER						
TBP39	ROVER 1.8 16V		£ 37.00	TBP41 <i>NEW</i>	VW GOLF 1.8/1.8T 20V 10/97 - 09/03	£ 45.00
SUBARU						
TBP39	SUBARU 2.0 16V		£ 65.00	TBP40 <i>NEW</i>	VW PASSAT 1.8/1.8T 20V 11/96 - 08/00	£ 45.00

VALVE SPRING CAPS - STEEL

PART NO	DESCRIPTION	PRICE
BMC		
SC1	A SERIES (Suit VDSMINR springs)	£ 40.00
CITROEN		
SC18	SAXO VTS 16v (Suit VDSVTS springs)	£ 68.00
SC30	SAXO VTR (Suit VSSVTR springs)	£ 40.00
FORD		
SC7	COSWORTH (Suit VDSCOS springs)	£ 68.00
SC33	COSWORTH LONG VALVE	£ 68.00
SC34	CVH (Suit VDSCVH2 springs)	£ 40.00
SC8A	OHC (Suit VSSOHC springs)	£ 40.00
SC8B	OHC (Suit VDSOHC springs)	£ 40.00
SC9	XFLOW (Suit VDSF2 / VDSFR springs)	£ 40.00
SC10	XFLOW (Suit VDSFBPR springs)	£ 40.00
SC11	ZETEC 16v (Suit VSSZETA / VSSZETA34 springs)	£ 68.00
SC32**	ZETEC 16v (Suit VSSZETA / VSSZETA34 springs)	£ 68.00
SC20	DURATEC 16v (Suit VSSDUR springs)	£ 68.00
SC22	DURATEC 16v (Suit VDSDUR springs)	£ 68.00
SC24	FOCUS 1.6 16v (Suit VSSFOC springs)	£ 68.00
SC37	FOCUS ST170 (Suit VSSST170 springs)	£ 68.00
HONDA		
SC12	VTEC (Suit VDSVTEC springs)	£ 68.00
MINI		
SC21	EVO 1-9 (Suit VSSMITS springs)	£ 68.00
NISSAN		
SC36	MICRA 16V (Suit std springs)	£ 68.00
PEUGEOT		
SC14	306 16v (Suit VDSP306 springs)	£ 68.00
SC26	MI16 (Suit VDSMI16 springs)	£ 68.00
SC27	206 GTI (As SC28 expect to suit hyd buckets)	£ 68.00
SC28	206 GTI (Suit VSSP206 springs)	£ 68.00
SC35	205 GTI (Suit VDSP16 springs)	£ 40.00

PART NO	DESCRIPTION	PRICE
RENAULT		
SC29	MEGANE / CLIO (Suit VDSMEG springs)	£ 68.00
ROVER		
SC3	K SERIES (Suit VSSK & VDSK springs)	£ 68.00
SC19	K SERIES (As SC3 except to suit hyd buckets)	£ 68.00
SC23	KV6 (Suit VSSKV6 & VDSKV6 springs)	£ 102.00
SC25	KV6 (As SC23 except to suit hyd buckets)	£ 102.00
VAUXHALL		
SC16	CORSA 16v (Suit VDSCOR springs)	£ 68.00
SC17	ASTRA 2.0 16v (Suit VDSAST16V springs)	£ 68.00
VOLVO		
SC40	B18 (Suit VDSB18 springs)	£ 40.00

VALVE SPRING CAPS - TITANIUM

NOTE : ALL TITANIUM VALVE SPRING RETAINERS ARE PLASMA NITRIDED

FORD		
SC7T	COSWORTH (Suit VDSCOS springs)	£ 190.00
MINI		
SC21T	EVO 1-9 (Suit VSSMITS springs)	£ 190.00

ANY SPRING CAP FROM OUR RANGE CAN BE PRODUCED IN TITANIUM, PLEASE SEE BELOW FOR PRICES:

ANY 8V ENGINE	£95.00
ANY 16V ENGINE	£190.00
ANY 24V ENGINE	£285.00

TO ORDER SUFFIX THE RELAVANT PART NUMBER WITH 'T'

** **NOTE** : To suit single groove valve stem

MISCELLANEOUS ITEMS

ASTADJH	ASTRA HYDRAULIC ADJUSTERS	£ 65.00
ASTADJM	ASTRA MECHANICAL ADJUSTERS	£ 295.00
BSTUD	FORD SOHC BALL STUDS	£ 26.00
COSWASH	COSWORTH YB 5mm THRUST SPACER	£ 7.00
DISC	TIMING DISC	£ 5.00
LUBE	BOTTLE OF CAM LUBE	£ 4.00
MINKEY2	A SERIES 2 DEG OFFSET KEY	£ 14.00
MINKEY4	A SERIES 4 DEG OFFSET KEY	£ 14.00
MINKEY6	A SERIES 6 DEG OFFSET KEY	£ 14.00
MITSADJM	MINI MITSUBISHI EVO SOLID LIFTERS	£ 380.00
PLATES	K SERIES VVC CONVERSION PLATE KIT	£ 115.00
PRODISC	PROFESSIONAL 10" DIA ALLOY T/DISC	£ 40.00
PULDAUX	FORD SOHC ALLOY AUX DRIVE PULLEY	£ 44.00
PULXFC	FORD XFLOW CRANK PULLEY	£ 42.00
ROTOR	K SERIES ROTOR ARM ATTACHMENT	£ 20.00
SBAR	FORD SOHC SPRAY BAR	£ 10.00
SSCVH	CVH COMBINED SPRING SEATS & SEALS	£ 24.50
SSDUR	DURATEC SPRING SEATS	£ 40.00
SSB18	VOLVO B18 SPRING DEATS	£ 34.00
TCMIN	A SERIES DUPLEX TIMING CHAIN	£ 17.50
TCOP	OPEL CIH DUPLEX TIMING CHAIN	£ 17.50
TCV8	ROVER V8 DUPLEX TIMING CHAIN	£ 17.50
TCXF	FORD XFLOW DUPLEX TIMING CHAIN	£ 17.50
VSODUR	DURATEC OIL SEALS	£ 42.00
VSODUR	DURATEC OIL SEALS	£ 40.00
VSOOHC	FORD SOHC VALVE STEM OIL SEALS	£ 8.00
XFDOW3	FORD XFLOW 3 DEG OFFSET DOWEL	£ 20.00
XFDOW7	FORD XFLOW 5 DEG OFFSET DOWEL	£ 20.00
XFDOW9	FORD XFLOW 7 DEG OFFSET DOWEL	£ 20.00

CAMSHAFTS HONDA

Valve lifts quoted assume a rocker ratio of 1:1

PIPER CAMS

Part No.	Application	Duration @ 1mm	Duration @ 1mm		Cam Lift		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price pr exc.VAT
			Inl	Exh	Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
PH5	CBR600 FM - FW 1991 - 1998	TRACK DAY / RACE	241 deg	240 deg	.367" 9.32mm	.345" 8.76mm	.359" 9.11mm	.335" 8.51mm	18 - 42 44 - 16	102 deg	104 deg	.114" 2.90mm	.084" 2.13mm	.008" / .20mm .010" / .25mm	£170 Repro
PH6	CBR600 FX - FY 1999 - 2000	TRACK DAY / RACE	248 deg	234 deg	.340" 8.64mm	.316" 8.03mm	.332" 8.43mm	.306" 7.77mm	20 - 48 41 - 13	104 deg	104 deg	.112" 2.84mm	.083" 2.10mm	.008" / .20mm .010" / .25mm	£170 Repro
PH7	CBR600 RR 2003 - 6	SUPERSPORT	255 deg	235 deg	.335" 8.51mm	.293" 7.44mm	.327" 8.31mm	.283" 7.19mm	24 - 52 45 - 11	104 deg	107 deg	.123" 3.12mm	.074" 1.88mm	.008" / .20mm .010" / .25mm	£170 Repro
PH14	CBR600 RR 2003 - 6	SUPERSPORT	253 deg	235 deg	.335" 8.51mm	.293" 7.44mm	.327" 8.31mm	.281" 7.19mm	21 - 51 43 - 13	105 deg	105 deg	.112" 2.85mm	.078" 1.98mm	.008" / .20mm .010" / .25mm	£170 Repro
PH10	CBR600 RR 2003 - 6	RACE	250 deg	242 deg	.363" 9.22mm	.330" 8.38mm	.355" 9.01mm	.320" 8.13mm	23 - 47 45 - 17	102 deg	104 deg	.127" 3.22mm	.097" 2.46mm	.008" / .20mm .010" / .25mm	£170 Repro
PH1	CBR900RR 893cc N - 1992 - 2001	TRACK DAY / RACE	244 deg	244 deg	.325" 8.26mm	.302" 7.67mm	.319" 8.10mm	.294" 7.47mm	19 - 45 48 - 16	103 deg	106 deg	.095" 2.41mm	.090" 2.28mm	.008" / .15mm .008" / .20mm	£170 Repro
PH2	CBR900RR 954cc 2002 - 2003	TRACK DAY / RACE	237 deg	228 deg	.377" 9.58mm	.340" 8.64mm	.369" 9.37mm	.330" 8.38mm	17 - 41 38 - 10	102 deg	104 deg	.110" 2.79mm	.077" 1.95mm	.008" / .20mm .010" / .25mm	£170 Repro
PH3	CBR900RR 954cc 2002 - 2003	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	£540 Billet
PH8	CBR1000 RR 2004 ON	TRACK DAY / RACE	248 deg	240 deg	.391" 9.93mm	.375" 9.52mm	.383" 9.72mm	.365" 9.27mm	22 - 46 44 - 16	102 deg	104 deg	.128" 3.25mm	.104" 2.64mm	.008" / .20mm .010" / .25mm	£170 Repro £560 Blank
PH9	CBR1000 RR 2004 ON	TRACK DAY / RACE	250 deg	242 deg	.363" 9.22mm	.346" 8.89mm	.355" 9.01mm	.336" 8.53mm	23 - 47 45 - 17	102 deg	104 deg	.127" 3.22mm	.105" 2.67mm	.008" / .20mm .010" / .25mm	£170 Repro £560 Blank
PH11	CBR1000 RR 2004 ON	TRACK DAY / RACE	255 deg	248 deg	.363" 9.22mm	.346" 8.89mm	.355" 9.01mm	.336" 8.53mm	26 - 50 48 - 20	102 deg	104 deg	.131" 3.33mm	.111" 2.83mm	.008" / .20mm .010" / .25mm	£170 Repro £560 Blank
PH4	CBR1100 XX 1997 -	STREET / KIT CAR	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	£170 Repro

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	£170 Repro
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	£170 Repro
PK2	ZX6 R 636 2003	TRACK DAY / RACE	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	£170 Repro
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	£170 Repro
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	£520 Billet

CAMSHAFTS KAWASAKI (CONT)

Valve lifts quoted assume a rocker ratio of 1:1

** Valve lifts quoted assume a rocker ratio of 1.3:1

Part No.	Application	Duration @ 1mm		Cam Lift		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price pr exc.VAT
		Inl	Exh	Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
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	£170 Repro
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	£170 Repro
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	£170 Repro
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	£170 Repro
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	£170 Repro

SUZUKI

Valve lifts quoted assume a rocker ratio of 1:1

*blank includes sprockets

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	£170 Repro
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
PS22	GSX R600 K6-7 SUPERSPORT	252 deg	235 deg	.338" 8.61mm	.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	£170 Repro £610 Blank*
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	£170 Repro
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*

CAMSHAFTS SUZUKI (CONT)

PIPER CAMS

Valve lifts quoted assume a rocker ratio of 1:1

*blank includes sprockets

Part No.	Application	RACE	Duration @ 1mm		Cam Lift		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve Clearance	Price pr exc.VAT
			Inl	Exh	Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
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	£170 Repro £610 Blank*
PS23	GSX R1000 K5 - 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	£610 Blank*
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	£170 Repro £550 Blank
PS21	GSX R1300 1999 -	GRASS SPEC	241 deg	224 deg	.367" 9.32mm	0.320" 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	£170 Repro £550 Blank
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	£550 Blank
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	£170 Repro £550 Blank
PS9	GSX 1400 K2 2002	STREET	226 deg	212 deg	.315" 8.00mm	.277" 7.03mm	.307" 7.80mm	.267" 6.78mm	8 - 38 31 - 1	105 deg	105 deg	.069" 1.75mm	.043" 1.10mm	.008" / .20mm .010" / .25mm	£170 Repro

YAMAHA

Valve lifts quoted assume a rocker ratio of 1:1

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	£170 Repro
PY6	YZF R6 INJ 2003	RACE	252 deg	234 deg	.340" 8.64mm	.316" 8.03mm	.334" 8.48mm	.306" 7.77mm	24 - 48 47 - 7	102 deg	110 deg	.117" 2.97mm	.063" 1.60mm	.006" / .15mm .010" / .25mm	£170 Repro
PY7	YZF R6 INJ 2003	SUPERSPORT	256 deg	240 deg	.335" 8.51mm	.299" 7.59mm	.327" 8.31mm	.291" 7.39mm	23 - 53 50 - 10	105 deg	110 deg	.122" 3.10mm	.073" 1.85mm	.008" / .20mm .010" / .25mm	£170 Repro
PY10	YZF R6 INJ 2006 -	SUPERSPORT	251 deg	236 deg	.346" 8.79mm	.315" 8.00mm	.340" 8.64mm	.307" 7.80mm	21 - 51 47 - 9	105 deg	109 deg	.102" 2.59mm	.064" 1.63mm	.006" / .15mm .008" / .20mm	£170 Repro £550 Blank
PY12	YZF R6 INJ 2007	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	£170 Repro £550 Blank
PY1 B	FSZ 1000 FAZER	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	£560 Billet
PY1 A / B / C	YZF R1 1998 - 2002 / INJ 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	£560 Billet
PY2 A / B / C	YZF R1 1998 - 2002 / INJ 2003	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	£560 Billet
PY3 A / B / C	YZF R1 1998 - 2002 / INJ 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	£560 Billet
PY4C	YZF R1 INJ 2003	RACE	248 deg	248 deg	.314" 7.98mm	.340" 8.64mm	.304" 7.72mm	.330" 8.38mm	22 - 46 54 - 14	102 deg	110 deg	.109" 2.77mm	.090" 2.29mm	.006" / .15mm .010" / .25mm	£560 Billet
PY8	YZF R1 INJ 2004 - 06	STREET / TRACK DAY	248 deg	242 deg	.314" 7.98mm	.330" 8.38mm	.304" 7.72mm	.320" 8.13mm	22 - 46 49 - 13	102 deg	108 deg	.109" 2.77mm	.083" 2.11mm	.008" / .20mm .010" / .25mm	£560 Billet
PY9	YZF R1 INJ 2004 - 06	RACE / TORQUE	251 deg	242 deg	.345" 8.76mm	.330" 8.38mm	.337" 8.56mm	.320" 8.13mm	21 - 51 46 - 16	105 deg	105 deg	.107" 2.72mm	.093" 2.36mm	.008" / .20mm .010" / .25mm	£560 Billet
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	£560 Billet
PY11	YZF R1 2007 MUST USE YEC KIT SPRING	RACE	261 deg	257 deg	.385" 8.76mm	.348" 8.38mm	.390" 9.77mm	.355" 8.83mm	21 - 61 59 - 19	110 deg	110 deg	.106" 2.70mm	.098" 2.49mm	.005" / .127mm .007" / .178mm	£560 Billet
PY14	YZF R1 2008 BSB SPEC	RACE	255 deg	250 deg	.369" 8.76mm	.328" 8.38mm	.375" 9.37mm	.338" 8.33mm	22 - 54 53 - 17	106 deg	108 deg	.110" 2.79mm	.094" 2.39mm	.006" / .152mm .010" / .254mm	£560 Billet

MOTORCYCLE ADJUSTABLE SPROCKET

PART NO.	DESCRIPTION	MATERIAL	PRICE
HONDA			
PULMH6F23	CBR600 F2 / 3 1991 - 1998 SPROCKET	STEEL	£ 55.00
PULMH6F4	CBR600 F4 1999 - 2002 SPROCKET	STEEL	£ 55.00
PULMH6RR	CBR600 RR 2003 On SPROCKET	STEEL	£ 55.00
PULMH900	CBR900 RR 1992 - 1999 SPROCKET	STEEL	£ 55.00
PULMH929	CBR900 RR 2000 On SPROCKET	STEEL	£ 55.00
PULMH1100	CBR1100BB 1996 On SPROCKET	STEEL	£ 55.00
KAWASAKI			
PULMK6R	ZX6 R F - K 1994 On SPROCKET KIT	STEEL	£ 148.00
PULMK7R	ZX7 R 1991 - 2003 SPROCKET KIT	STEEL	£ 148.00
PULMK9R47	ZX9 R B1-4 1994 - 1998 SPROCKET KIT	STEEL	£ 148.00
PULMK9R8	ZX9 R C - E 1998 On SPROCKET KIT	STEEL	£ 148.00
SUZUKI			
PULMS750	GSX R600 / R750 1998 - 1999 SPROCKET KIT	STEEL	£ 148.00
PULMS7502	GSX R750 K 2000 On SPROCKET KIT	STEEL	£ 148.00
PULMS1300	GSX R1300 1999 On SPROCKET KIT	STEEL	£ 148.00
YAMAHA			
PULMYR1	YZF R1 1998-03 SPROCKET	STEEL	£ 55.00
PULMYR6	YZF R6 1999-05 SPROCKET	STEEL	£ 55.00
PULMYR62	YZFR6 2006-2008	STEEL	£ 55.00

MECHANICAL CAM CHAIN ADJUSTER

PART NO.	DESCRIPTION	MATERIAL	PRICE
SUZUKI			
ST750Y2K*	GSXR600K1-3 GSXR750K1-3 GSXR1000K1-2	ALLOY	£ 48.00
ST1000-3*	GSXR600K4-8 GSXR750K4-8 GSXR1000K3-8	ALLOY	£ 48.00
ST1300GX*	GSXR1300 HAYABUSA -07	ALLOY	£ 48.00
ST1300-08*	GSXR1300 HAYABUSA 2008	ALLOY	£ 48.00

* INCLUDES NEW GASKET

YAMAHA

YTR6	YZFR6 2006-	ALLOY	£ 47.00
YTR1	YZFR1 2004 - 2006	ALLOY	£ 47.00
YT1000	YZFR6 1999 - 2005 YZFR1 1998 - 2003	ALLOY	£ 47.00

NEW MODELS ALWAYS BEING ADDED

MOTORCYCLE SHIMS

7.50MM DIAMETER FROM 1.50MM TO 3.50MM THICKNESS AVAILABLE

PRICES FROM £3.95 PER SHIM