

# ***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](http://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.

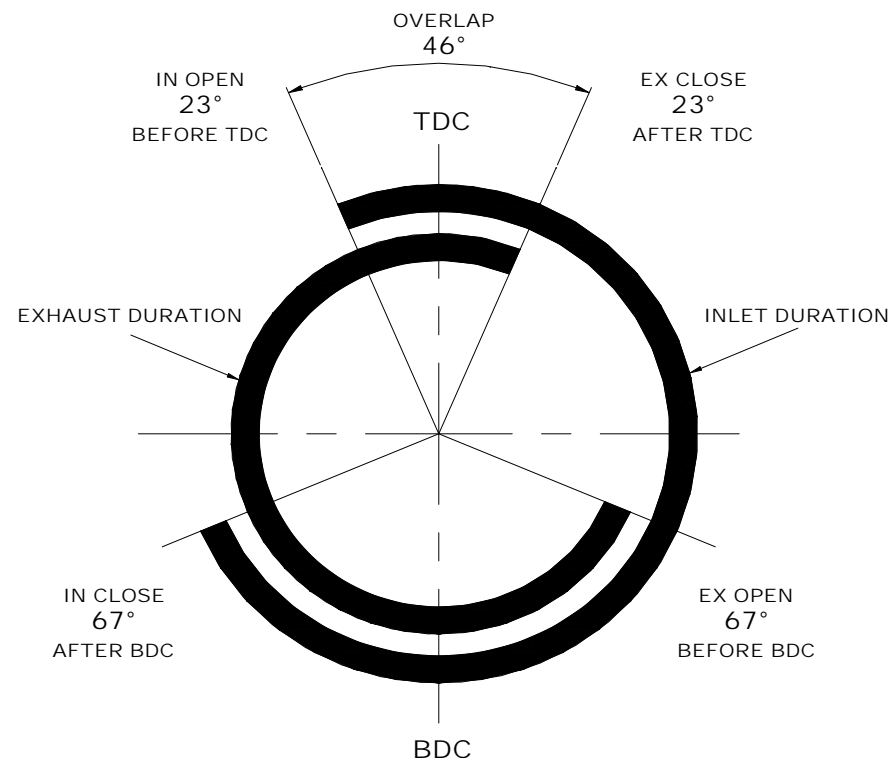
### **Cam Timing:**

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 will 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:**

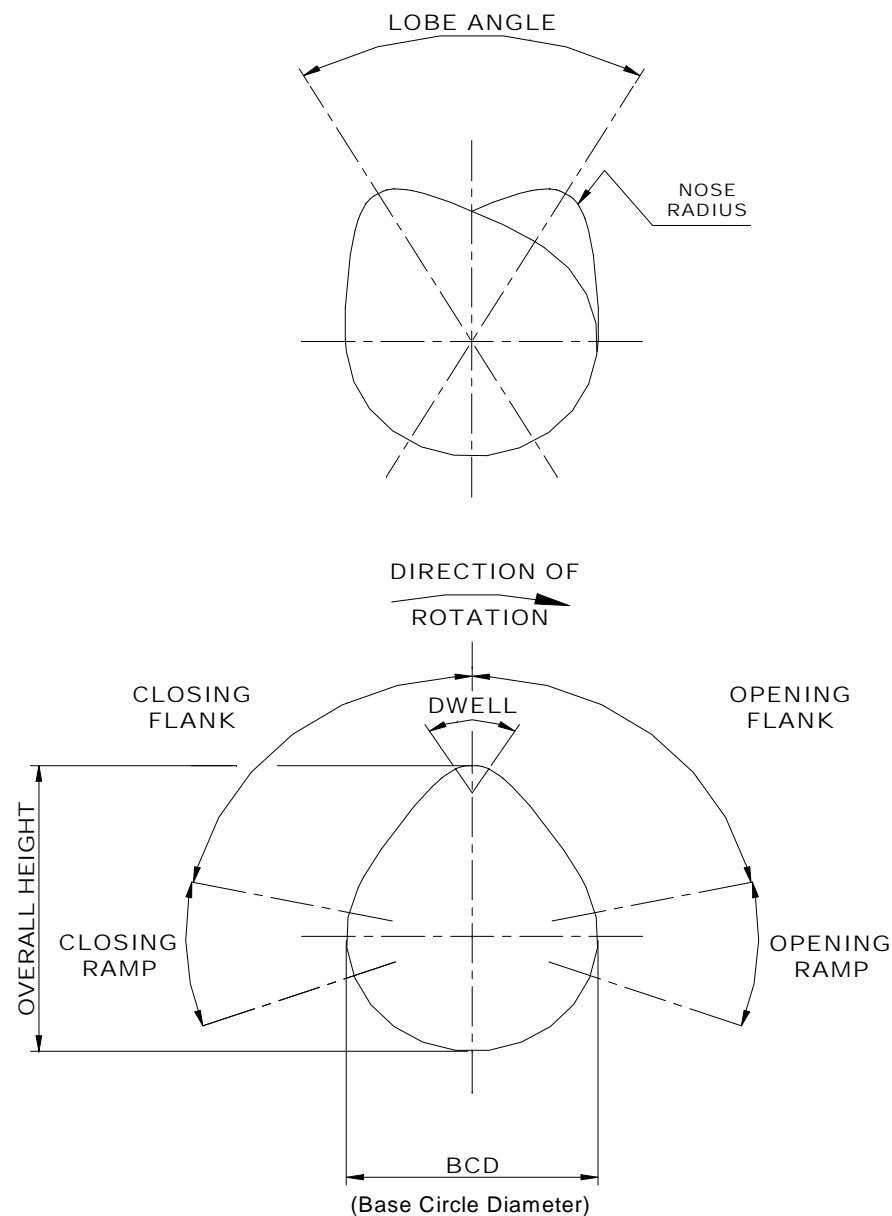
The ratio between valve motion vs cam follower motion. Push rod engines typically use a ratio of between 1.1:1 & 2.0:1. Over head cam, direct operating engines obviously have no rocker ratio as the cam follower motion is exactly the same as the valve motion.

**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

**PIPER CAMS**

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.

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	<b>FAST ROAD</b>	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	<b>£210 Repr</b> <b>£483 Blank</b>
ARBP285	<b>ULTIMATE ROAD</b>	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	<b>£483 Blank</b>
ARBP300	<b>RALLY</b>	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	<b>£483 Blank</b>
ARBP320	<b>RACE</b>	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	<b>£483 Blank</b>

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

Valve lifts quoted assume a rocker ratio of 1:1

AR20BP270	<b>FAST ROAD 2.0 TWIN SPARK</b>	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	<b>£210 Repr</b> <b>£483 Blank</b>
AR20BP285	<b>ULTIMATE ROAD</b> 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	<b>£483 Blank</b>
AR20BP300	<b>RALLY</b>	2800-7500		300 deg	300 deg	.480" 12.19mm	.478" 12.13mm	47 - 73 76 - 44	103 deg	106 deg	.180" 4.57mm	.164" 4.17mm	.008" / .20mm .010" / .25mm	<b>£483 Blank</b>

**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	<b>FAST ROAD</b>	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	<b>£210 Repr</b>
AR16VBP285	<b>ULTIMATE ROAD</b>	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	<b>£210 Repr</b>
AR16VBP300	<b>RALLY</b>	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	<b>£210 Repr</b>
AR16VBP320	<b>RACE</b>	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	<b>£210 Repr</b>

**ALFA ROMEO GTV6 / 156 / 164 V6 24V**

Valve lifts quoted assume a rocker ratio of 1:1

ARV6BP270H	<b>FAST ROAD</b>	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	<b>£336 Repr</b>
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**ALFA ROMEO 33 / 145 / 146 1.7ie 16V BOXER**

Valve lifts quoted assume a rocker ratio of 1:1

AR17BP270H	<b>FAST ROAD</b>	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	<b>£336 Repr</b>
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**AUDI - SEE V.A.G.****ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

FOLAR16V - Alfa Romeo 2.0 16v hydraulic follower set £252

# 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	£735 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	£735 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	£735 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	£126 Rebro
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	£126 Rebro
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	£126 Rebro
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	£126 Rebro

### 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	£189 Rebro £538 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	£189 Rebro £538 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	£189 Rebro £538 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	£189 Rebro £538 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	£538 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	£189 Rebro £538 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	£189 Rebro £538 Billet

#### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLAHR - Austin Healey 3000 competition follower set £168

VDSAHR - Austin Healey 3000 double valve springs £126

# 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	<b>MILD ROAD / TURBO</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
BP270	<b>FAST ROAD</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
BP270i	<b>FAST ROAD</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
BP270MPi	<b>FAST ROAD</b> 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	<b>£120 Reppo</b>	
BP285	<b>ULTIMATE ROAD</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
BP300	<b>RALLY RACE</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
BP320	<b>RACE</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
649+	<b>RACE</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
457	<b>BRISCA MINISTOCK</b>	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	<b>£104 Reppo</b> <b>£175 Billet</b>	
466	<b>SPEDEWORTH MINISTOCK</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
2046	<b>SPEDEWORTH MINISTOCK</b> 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	<b>£104 Reppo</b> <b>£175 Billet</b>	
A SERIES TWIN GEAR "FORMULA JUNIOR" STYLE BILLET CAMS									ANY PROFILE				<b>£195 Billet</b>	

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	<b>£132 Reppo</b> <b>£220 Billet</b>
KBMET270MPi	X	X	X								X	<b>£147 Reppo</b> <b>£220 Billet</b>
KB285 / 300 / 320 / 649+	X	X	X								X	<b>£147 Reppo</b> <b>£220 Billet</b>

### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLMIN - A Series cam follower set £37  
PULSMIN - A Series vernier duplex kit £95  
PULDMIN - A Series all Alloy vernier duplex kit £105

MINKEY2 - 2 Deg offset key £14.70  
MINKEY4 - 4 Deg offset key £14.70  
MINKEY6 - 6 Deg offset key £14.70

VDSMIN2 - Uprated double valve spring set £42  
VDSMINR - Race double valve spring set £84  
SC1 - A series steel spring retainer set £42  
TCMIN - Duplex timing chain £18.38

# 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	£115 Repro £184 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	£115 Repro £184 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	£115 Repro £184 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	£115 Repro £184 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	£115 Repro £184 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	£115 Repro £184 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	£115 Repro £184 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 .018" / .45mm	£115 Repro £184 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	£115 Repro £184 Billet
B770	RALLY	3000-7000		300 deg	310 deg	.445" 11.30mm	.445" 11.30mm	50 - 70 75 - 45	100 deg		.153" 3.89mm	.129" 3.28mm	.018" / .45mm .018" / .45mm	£115 Repro £184 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	£115 Repro £184 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	£115 Repro £184 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	£187 Repro £226 Billet

## ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSB - Uprated single valve spring set £42  
VDSB2 - Uprated double valve spring set £44

MINKEY2 - 2 Deg offset key £14.70  
MINKEY4 - 4 Deg offset key £14.70  
MINKEY6 - 6 Deg offset key £14.70

PULSB - B series vernier duplex kit £95  
PULSBS - B series vernier cam sprocket £84  
FOLB - post 71 B series cam follower set £37  
FOLB2 - Pre 71 B series cam follower set £63

# 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	£236 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	£236 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	£236 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	£236 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	£210 Repro
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## BMW E30 320 / 323 / 325 'SMALL SIX'

Valve lifts quoted assume a rocker ratio of 1.56:1

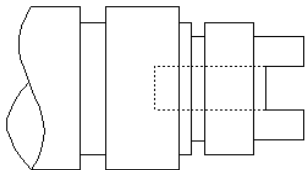
BMWS6BP270	FAST ROAD	1500-6500	12 BHP	274 deg	274 deg	.410" 10.41mm	.410" 10.41mm	27 - 67 67 - 27	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£325 Blank
BMWS6BP285	ULTIMATE ROAD	2200-7000	14 BHP	292 deg	292 deg	.420" 10.66mm	.420" 10.66mm	36 - 76 76 - 36	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£325 Blank

## BMW 528 / 530 / 535 'LARGE SIX'

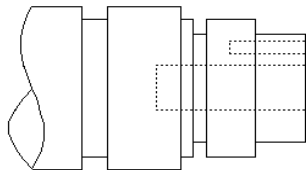
Valve lifts quoted assume a rocker ratio of 1.29:1

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

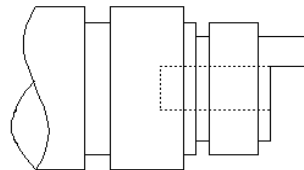
BMW6BP270	FAST ROAD	1500-6500	12 BHP	280 deg	276 deg	.390" 9.91mm	.400" 10.16mm	26 - 74 72 - 24	114 deg	N/A	N/A	.016" / .40mm .016" / .40mm	£325 Blank
BMW6BP285	ULTIMATE ROAD	2200-7000	18 BHP	288 deg	288 deg	.400" 10.16mm	.400" 10.16mm	34 - 74 74 - 34	110 deg	N/A	N/A	.010" / .25mm .010" / .25mm	£325 Blank



PRE MOTRONIC



MOTRONIC II



MOTRONIC I

# CAMSHAFTS CITROEN - 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	<b>FAST ROAD</b>	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	<b>£126 Repro</b> <b>£210 Blank</b>	
FIAUNOTBP285	<b>ULTIMATE ROAD</b>	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	<b>£126 Repro</b> <b>£210 Blank</b>	
FIAUNOTBP300	<b>RALLY</b>	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	<b>£126 Repro</b> <b>£210 Blank</b>	

## 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	<b>FAST ROAD</b>	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	<b>£126 Repro</b> <b>£210 Blank</b>
FIAX19BP285	<b>ULTIMATE ROAD</b>	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	<b>£126 Repro</b> <b>£210 Blank</b>
FIAX19BP300	<b>RALLY</b>	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	<b>£126 Repro</b> <b>£210 Blank</b>
FIAX19BP320	<b>RACE</b>	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	<b>£126 Repro</b> <b>£210 Blank</b>

## 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	<b>FAST ROAD</b>	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	<b>£210 Repro</b> <b>£420 Blank</b>
FIATTCBP285	<b>ULTIMATE ROAD</b>	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	<b>£210 Repro</b> <b>£420 Blank</b>
FIATTCBP300	<b>RALLY</b>	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	<b>£210 Repro</b> <b>£420 Blank</b>
FIATTCBP320	<b>RACE</b>	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	<b>£420 Blank</b>

## FIAT 1.2 16v

Valve lifts quoted assume a rocker ratio of 1:1

FIAT12BP270	<b>FAST ROAD</b>	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	<b>£210 Repro</b>
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### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VDSFTC - Fiat 1.6/2.0 twin cam double valve springs £84  
VDSPUN - Fiat Punto GT double valve springs £84

TBP1 - Fiat Uno turbo 1.3 & X19 1500 comp.cam belt £26.25  
TBP2 - Fiat Uno turbo 1.4 comp.cam belt £26.25  
TBP3 - Fiat 2.0 twin cam comp.cam belt £26.25

PULDUNO - Fiat Uno turbo / Punto GT alloy vernier pulley £105  
PULD19 - Fiat X19 / 128 SOHC alloy vernier pulley £105  
PULDFTC - Pr Fiat twin cam 1.6/2.0 alloy vernier pulleys £189  
PULDFIRE - Fiat fire alloy vernier pulley £108

# 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	Exh		
XFBP255	<b>MILD ROAD</b>	Ideal for autotest and trials where low down torque is required. No other engine mods required	1000-6000	8 BHP	260 deg	260 deg	.384" 9.75mm	.384" 9.75mm	21 - 59 59 - 21	109 deg	.048" 1.22mm	.048" 1.22mm	.018" / .45mm .018" / .45mm	£104 <b>Repro</b> £142 <b>Blank</b>	
XFBP270	<b>FAST ROAD</b>	Excellent power & torque improvement with smooth idle. Ideal with twin carbs & 4:2:1 manifold	1500-6500	12 BHP	268 deg	268 deg	.415" 10.54mm	.413" 10.49mm	26 - 62 62 - 26	108 deg	.070" 1.78mm	.068" 1.72mm	.014" / .35mm .014" / .35mm	£104 <b>Repro</b> £142 <b>Blank</b>	
XFBP285	<b>ULTIMATE ROAD</b>	Massive improvements in mid range and top end power. No machining required	2500-7500	18 BHP	292 deg	292 deg	.430" 10.92mm	.430" 10.92mm	38 - 74 74 - 38	108 deg	.086" 2.18mm	.086" 2.18mm	.014" / .35mm .014" / .35mm	£104 <b>Repro</b> £142 <b>Blank</b>	
XFBP300	<b>RALLY</b>	For use in well modified engines where serious power and 'thumping' mid range torque is required	3000-8000		316 deg	316 deg	.459" 11.66mm	.459" 11.66mm	54 - 82 82 - 54	104 deg	.177" 4.50mm	.177" 4.50mm	.015" / .38mm .015" / .38mm	£142 <b>Blank</b>	
XFBP320	<b>RACE</b>	The ultimate race profile. Designed to give phenomenal top end power and a wide power band	4000-8500		320 deg	320 deg	.493" 12.52mm	.493" 12.52mm	57 - 83 83 - 57	103 deg	.186" 4.72mm	.186" 4.72mm	.014" / .35mm .014" / .35mm	£142 <b>Blank</b>	
XF391	<b>1300 STOCKROD</b>	No machining required. This is the hottest profile that can be installed without machining.	3000-7000		296 deg	296 deg	.440" 11.18mm	.440" 11.18mm	38 - 78 78 - 38	110 deg	.104" 2.64mm	.104" 2.64mm	.018" / .45mm .018" / .45mm	£142 <b>Blank</b>	
XFA6	<b>RACE</b>				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	£142 <b>Blank</b>	
XFA8	<b>RACE</b>				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	£142 <b>Blank</b>	
XFA9	<b>RACE</b>				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	£142 <b>Blank</b>	

Steel billet cams available £380

## 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	£139 <b>Repro</b> £189 <b>Blank</b>
KBXF285	X	X	X		X	X					X	£170 <b>Repro</b> £220 <b>Blank</b>
KBXF300 / 320	X	X	X		X	X					X	£220 <b>Blank</b>

### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSXF - Xflow vernier duplex kit £90  
 TCXF - Xflow duplex timing chain £18.38  
 FOLFW - Xflow 711 follower set £46  
 FOLFN - Pre Xflow follower set £68

XFDOW3 - Xflow 3 Deg offset dowl £21  
 XFDOW5 - Xflow 5 Deg offset dowl £21  
 XFDOW7 - Xflow 7 Deg offset dowl £21  
 XFDOW9 - Xflow 9 Deg offset dowl £21

SC9 - Steel retainers to suit VDSF2 £42  
 SC10 - Steel spring caps to suit VDSFBPR £42  
 VSSF - Single valve spring set £42  
 VDSF2 - Xflow double valve spring kit £74  
 VDSFBPR - Race double valve springs £84

# 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	<b>MILD ROAD</b> Gives improvements in torque throughout the rev range. Ideal for towing. No other engine mods required	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	£147 Blank	
OHC134	<b>FAST ROAD INJECTION</b> 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	£147 Blank	
OHCBP270	<b>FAST ROAD CARB</b> 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	£147 Blank	
OHCBP285	<b>ULTIMATE ROAD</b> 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	£147 Blank	
OHCBP300	<b>RALLY</b> 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	£155 Blank	
OHCBP320	<b>RACE</b> 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	£155 Blank	
OHCA8	<b>RALLY/GRASS/ 2.0 HOT ROD</b>	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	£155 Blank	
OHC947	<b>F2 SUPERSTOCK</b> 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	£155 Blank	
OHC1802	<b>F2 SUPERSTOCK</b> The very latest technology for 2008	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	£155 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	£252 Blank
KBOHC 300 / 320 / A8 / 947 / 1802	X	X	X	X		X	X			X	£270 Blank

### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSOHC - SOHC single valve spring set £58  
 VDSOHC - SOHC double valve spring set £84  
 SC8A - Steel retainers for single springs £42  
 SC8B - Steel retainers for double springs £42

PULDOHC - SOHC alloy vernier pulley £86  
 FOLOHC - SOHC follower set £58  
 PULDAUX - SOHC alloy auxiliary pulley £44  
 VSOOHC - SOHC valve stem seals £8.40

TBP7 - 1.8/2.0 Competition cam belt £26.25  
 TBP6 - 1.6 Competition cam belt £26.25  
 BSTUD - SOHC ball stud set £27.30  
 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 &amp; 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	£441 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	£441 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	£441 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	£441 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	£441 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	£441 Blank

**FORD V6 3.0 'ESSEX'**

Valve lifts quoted assume a rocker ratio of 1.47:1

V630BP270	<b>FAST ROAD</b>	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	£147 Repro £243 Blank
V630BP285	<b>ULTIMATE ROAD</b>	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	£147 Repro £243 Blank
V630BP300	<b>RALLY</b>	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	£243 Blank
V630BP320	<b>RACE</b>	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	£243 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	<b>FAST ROAD</b>	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	£126 Repro £180 Blank
V623BP285	<b>ULTIMATE ROAD</b>	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	£126 Repro £180 Blank
V623BP300	<b>RALLY</b>	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	£180 Blank
V623BP320	<b>RACE</b>	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	£180 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	£242 Repro £304 Blank

**FORD V6 3.0 'ESSEX' INCLUDE:**

KBV630270 / 285	X	X	X								X	£242 Repro £378 Blank
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**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

FOLV6 - Essex V6 cam follower set £84

FOLV6G - Cologne V6 cam follower set £84

VSSV6G - Cologne V6 single valve spring set £63

VSSV6 - Essex V6 single valve spring set £63

# 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	£126 Repro £181 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	£126 Repro £181 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	£181 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	£181 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	£126 Repro £181 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	£126 Repro £181 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	£126 Repro £181 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	£181 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	£181 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	£241 Repro £305 Blank
KBV628300 / 320	X	X	X								X	£305 Blank

### FORD V6 2.9 ENGINE INCLUDE:

KBV629270 / 285	X	X	X								X	£241 Repro £305 Blank
KBV629300 / 320 / EURO1	X	X	X								X	£305 Blank

ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLV6G - Cologne V6 cam follower set £84

VSSV6G - Cologne V6 single valve spring set £63

# CAMSHAFTS FORD 1300 / 1600 CVH RS TURBO XR3I XR2

**PIPER CAMS**

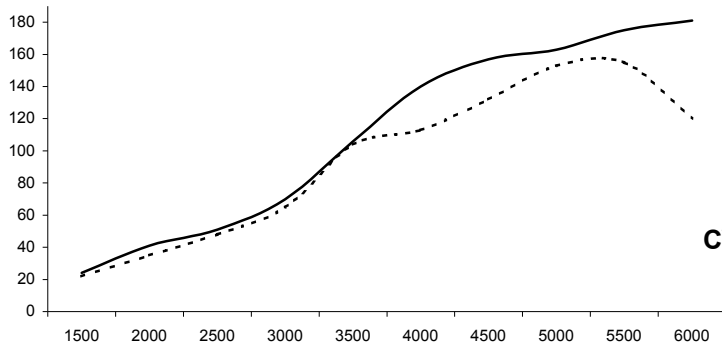
Valve lifts quoted assume a rocker ratio of 1.65:1

**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	<b>MILD ROAD</b> . 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	£168 Blank
CVHBP270	<b>FAST ROAD</b> 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	£168 Blank
CVHBP285	<b>FAST ROAD</b> <b>INJECTION</b> - 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	£168 Blank
CVHBP285C	<b>FAST ROAD</b> <b>CARBURETTOR</b> - 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	£168 Blank
CVHBP285T	<b>FAST ROAD</b> <b>TURBO</b> - 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	£168 Blank
CVHBP285T2	<b>ULTIMATE ROAD</b> <b>HIGH BOOST TURBO</b> - 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	£168 Blank
CVHBP300M	<b>RALLY</b> 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	£168 Blank
CVHBP320M	<b>RACE</b> 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	£168 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	£294 Blank
KBCVH285T / 285T2	X	X	X	X	X						X	£294 Blank



**Ford CVH RS Turbo**  
Chipped running 15 psi

**Std Cam - 155 bhp @ 6000 rpm**

**CVHBP285T2 - 181 bhp @ 6000 rpm**

### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

- FOLCVH - CVH hydraulic follower set £92
- FOLCVHS - CVH solid follower set £180
- PULDCVH - CVH alloy vernier pulley £86
- TBP4 -1.4/1.6 Competition cam belt £26.25
- TBP5 -1.1/1.3 Competition cam belt £26.25
- VSSCVH - CVH single valve spring kit £74
- VDSCVH2 - CVH double valve spring kit £142
- SSCVH - CVH spring seats & seals set £25.73

# CAMSHAFTS FORD ESCORT / SIERRA COSWORTH 16v

**PIPER CAMS**

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

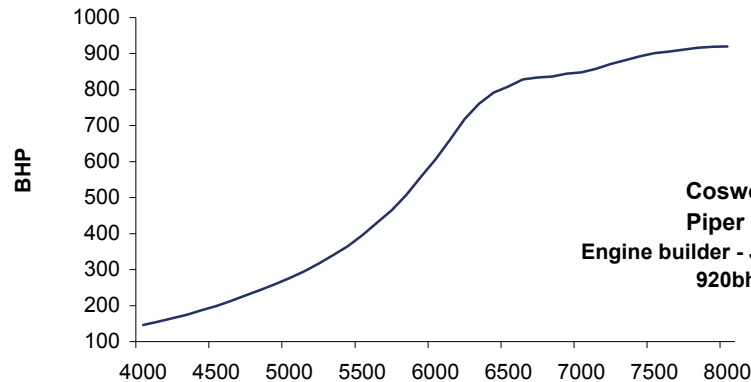
Valve lifts quoted assume a rocker ratio of 1:1

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	<b>FAST ROAD</b>	<b>Turbo</b>	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	<b>£210 Reppo</b> <b>£480 Blank</b>
COSBP285HT	<b>ULTIMATE ROAD</b>	<b>Turbo</b>	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	<b>£480 Blank</b>
COSBP300HT	<b>RALLY</b>	<b>Turbo</b>	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	<b>£480 Blank</b>
COSBP320HT	<b>RACE</b>	<b>Turbo</b>	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	<b>£480 Blank</b>
COS2158	<b>RACE</b>	<b>Turbo</b>	4500-8000		288 deg	288 deg	.440" 11.17mm	.438" 11.12mm	40 - 68 68 - 40	104 deg	104 deg	.126" 1.98mm	.124" 1.98mm	.008" / .20mm .010" / .25mm	<b>£480 Blank</b>
COSBP270H	<b>FAST ROAD</b>	<b>Naturally Aspirated</b>	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	<b>£480 Blank</b>
COSBP285H	<b>ULTIMATE ROAD</b>	<b>Naturally Aspirated</b>	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	<b>£480 Blank</b>
COSBP285M	<b>ULTIMATE ROAD</b>	<b>Naturally Aspirated</b>	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	<b>£210 Reppo</b> <b>£480 Blank</b>
COSBP300M	<b>RALLY</b>	<b>Naturally Aspirated</b>	3000-7500		304 deg	300 deg	.464" 11.79mm	.420" 10.67mm	49 - 75 75 - 45	103 deg	105 deg	.182" 4.62mm	.144" 3.66mm	.010" / .25mm .010" / .25mm	<b>£210 Reppo</b> <b>£480 Blank</b>
COSBP320M	<b>RACE</b>	<b>Naturally Aspirated</b>	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	<b>£210 Reppo</b> <b>£480 Blank</b>

## 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	<b>£560 Blank</b>
KBCOS300HT / 320HT	X	X	X			X					X	<b>£560 Blank</b>
KBCOS270H / 285H	X	X	X			X					X	<b>£690 Blank</b>



### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

- PULDOS - Pr cosworth alloy vernier pulleys £172
- TBP9 - Cosworth competition cam belt £38.50
- VDSCOS - Cosworth double valve spring set £163
- SC7 - Cosworth steel valve spring retainers £71
- COSWASH - 5mm thrust spacer £7.35
- FOLCOSH - Cosworth hydraulic follower set £252
- FOLCOSM - Cosworth solid follower set £340

**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	<b>FAST ROAD</b> 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	<b>£210 Repro</b> <b>£414 Blank</b>
ZETABP270BH	<b>FAST ROAD</b> 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	<b>£210 Repro</b> <b>£414 Blank</b>
ZETABP285H	<b>ULTIMATE ROAD</b> 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	<b>£414 Blank</b>
ZETABP300M	<b>RALLY</b>	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	<b>£414 Blank</b>
ZETABP320M	<b>RACE</b> 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	<b>£414 Blank</b>

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

Valve lifts quoted assume a rocker ratio of 1:1

RS2BP270H	<b>FAST ROAD</b>	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	<b>£210 Repro</b> <b>£414 Blank</b>
RS2BP285H	<b>ULTIMATE ROAD</b>	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	<b>£210 Repro</b> <b>£414 Blank</b>
RS2BP300H	<b>RALLY</b>	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	<b>£414 Blank</b>
RS2BP300M	<b>RALLY</b>	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	<b>£414 Blank</b>
RS2BP320M	<b>RACE</b>	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	<b>£414 Blank</b>

**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	<b>FAST ROAD</b>	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	<b>£210 Repro</b> <b>£414 Blank</b>
PUMRBP270	<b>FAST ROAD - PUMA RACING</b>	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	<b>£414 Blank</b>
PUMBP285	<b>ULTIMATE ROAD</b> 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	<b>£414 Blank</b>
PUMBP300	<b>RALLY</b>	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	<b>£414 Blank</b>

**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	<b>X</b>	<b>X</b>									<b>X</b>	<b>£393 Repro</b> <b>£567 Blank</b>
KBZETA285H	<b>X</b>	<b>X</b>	<b>X</b>								<b>X</b>	<b>£619 Blank</b>

**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULDZETA - Puma 1.7 alloy vernier exh pulley £105  
 FOLPUM - Puma 1.7 competition solid follower set £340

FOLZETAH - Zetec hydraulic follower set £252  
 FOLZETAM - Zetec solid follower set £340  
 FOLZETAM31 - Zetec 31mm oversize solid follower set £340  
 TBP8 - Zetec competition cam belt £39

PULDZETA - Pr zetec alloy vernier pulleys £172  
 VSSZETA - Zetec single valve spring set £110  
 SC11 - Zetec steel valve spring retainers £71  
 VSSRS2 - RS2000 16v single valve spring set £110

# 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	with clearance Inl	Exh		
FOC12BP270	<b>FAST ROAD</b> 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	£414 Blank
FOC14BP270	<b>FAST ROAD</b> 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	£414 Blank
FOC16BP270	<b>FAST ROAD</b> 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	£414 Blank
FOC16BP285	<b>ULTIMATE ROAD</b> 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	£414 Blank
FOC16BP300	<b>RALLY</b> 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	£414 Blank
FOC16BP320	<b>RACE</b> 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	£414 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	<b>FAST ROAD</b>	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	£414 Blank
FOC20BP285	<b>ULTIMATE ROAD</b>	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	£414 Blank
FOC20BP300	<b>RALLY</b>	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	£414 Blank
FOC20BP320	<b>RACE</b>	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	£414 Blank

## FORD FOCUS 2.0 16v ST170

Valve lifts quoted assume a rocker ratio of 1:1

FOCSTBP285	<b>ULTIMATE ROAD</b>	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	£210 Repro
FOCSTBP300	<b>RALLY</b> 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	£210 Repro

## FORD FOCUS RS

Valve lifts quoted assume a rocker ratio of 1:1

These cams are cnc ground std base circle size

FOCRSBP270	<b>FAST ROAD</b>	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	£414 Blank
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### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDFOC - Pr focus 1.6 alloy vernier pulleys £177  
 VSSFOC16 - Focus 1.6 single valve spring and cap set £163  
 SC24 - Focus 1.6 steel valve spring retainers £71  
 TBP31 - Focus 1.4 / Puma 1.7 comp cam belt £39

PULDZETA - Pr Focus 2.0 & RS alloy vernier pulleys £177  
 VSSZETA34 - Focus 2.0 & RS single valve spring kit £163  
 SC11 - Focus 2.0 & RS spring retainers £71  
 TBP30 - Focus 1.6/2.0 comp cam belt £39

PULDST170 - Focus ST170 alloy vernier exh pulley £105  
 VSSST170 - Focus ST170 single valve spring kit £163  
 SC37 - Focus ST170 steel valve spring retainers £71

# 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	<b>FAST ROAD</b> 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	£378 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	£378 Blank
DURBP285	<b>ULTIMATE ROAD</b> 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	£378 Blank
DUR2170	<b>NATIONAL HOT ROD</b> For use with throttle bodies. Piper double valve springs, VDS DUR, must be used	2500-7800		280 deg	272 deg	.492" 12.49mm	.450" 11.42mm	36 - 64 60 - 32	104 deg	104 deg	.152" 3.85mm	.126" 3.20mm	.008" / .20mm .010" / .25mm	£378 Blank
DURBP300	<b>RALLY</b> 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	£378 Blank
DURBP320	<b>RACE</b> 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	£378 Blank

## FORD FOCUS ST225 - 5 CYL

Valve lifts quoted assume a rocker ratio of 1:1

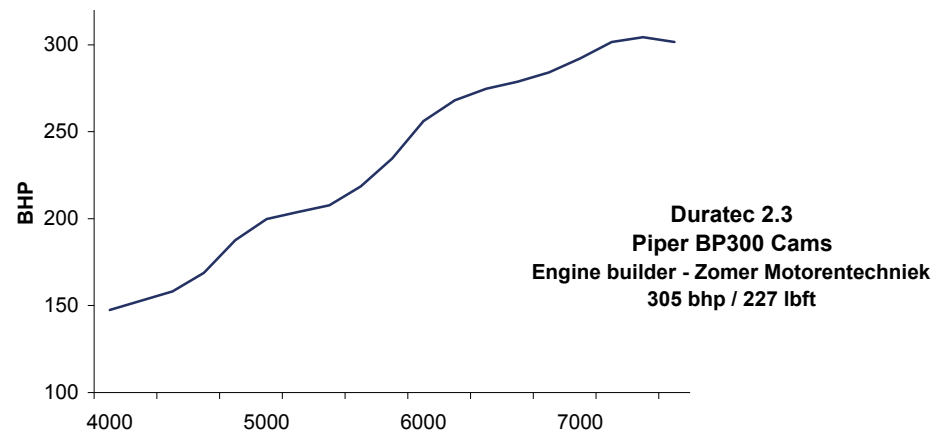
All profiles CNC ground to standard base circle size

FOC225BP270		£273 Repro
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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	£504 Blank
KBDUR2170 / BP300 / BP320	X		X			X					X	£656 Blank



#### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSDUR - Duratec vernier kit £105

VSSDUR - Duratec single valve spring and cap set £155

VDS DUR - Duratec double valve spring, seat, seal and cap set £304

VSODUR - Duratec oil seals £42

SSDUR - Duratec spring seats £42

SC20B - Duratec spring cap set £71

VSSST225 - Focus ST225 single valve spring &amp; cap set £205

# 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 with clearance		Valve Clearance	Price exc.VAT
			Low	Med	High	Low	Med	High	Inl ATDC	Exh BTDC	Inl	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	£546 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	£546 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	£546 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	£273 Repr £504 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	£273 Repr £504 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	£273 Repr £504 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	£504 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	£504 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	£504 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	£331 Repr
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	£331 Repr
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	£331 Repr

## JAGUAR 3.0 V6

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles available

JAGV6BP270	FAST ROAD	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	£630 Blank
JAGV6BP285	ULTIMATE ROAD	2000-7000	Use with FOLJV6 followers (shim under bucket type)	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	£630 Blank
JAGV6BP300	RALLY	2500-7500	Use with FOLJV6 followers (shim under bucket type)	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	£630 Blank

### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSJV6- Jaguar V6 vernier kit £415  
FOLJV6 - Jaguar V6 followers (shim under) £540.00

SC12 - Honda vtec 1.6 steel valve spring retainer set £71  
TBP32 - Honda vtec 1.6 competition cam belt £39  
PULDVTEC - Pr Honda vtec 1.6 alloy vernier pulleys £189  
VDSVTEC - Honda vtec 1.6 double valve spring set £163

**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	£210 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	£147 Repro £403 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	£147 Repro £403 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	£147 Repro £403 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	£147 Repro £403 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	£283 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	£283 Blank

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

Valve lifts quoted assume a rocker ratio of 1:1

NOTE: FOR CUSTOM PROFILES PLEASE ENQUIRE

Profile	Application	Duration @ 1mm		Duration		Valve Lift		Timing	Full Lift		Lift @ TDC with clearance		Valve clearance		Price exc.VAT (RRP)
		Inl	Exh	Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh	Inl	Exh	
MITS10STD	STANDARD PROFILE	223 deg	193 deg	260 deg	232 deg	.374" 9.50mm	.327" 8.31mm	20 - 60 46 - 6	110 deg	110 deg	.046" 1.17mm	.005" 0.13mm	.008" 0.20mm	.012" 0.30mm	£450 Blank
MITS10BP270	FAST ROAD For use with standard valve springs (Maximum lift achievable)	230 deg	207 deg	264 deg	240 deg	.400" 10.16mm	.366" 9.30mm	22 - 62 50 - 10	110 deg	110 deg	.061" 1.55mm	.016" 0.41mm	.008" 0.20mm	.010" 0.25mm	£450 Blank
MITS10BP285	ULTIMATE ROAD Extra high lift profile. Only Piper valve springs (Part no VSSMITS10) must be used.	232 deg	223 deg	268 deg	240 deg	.437" 11.10mm	.394" 10.00mm	24 - 64 50 - 10	110 deg	110 deg	.066" 1.68mm	.046" 1.17mm	.008" 0.20mm	.010" 0.25mm	£450 Blank

**CAM KITS MITSUBISHI EVO 10 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 10	KBMIT10285	X	X				X				X	£750 Blank

**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

VSSMITS10 - Mitsubishi Evo single valve spring and caps set - RRP £189.00

SC47 - Mitsubishi Evo 10 steel valve spring retainer set RRP - £71.00

# 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	with clearance Inl	Exh	
BP255	<b>FAST ROAD</b>	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	<b>FAST ROAD</b>	Extra high lift profile. <b>Only</b> 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	<b>ULTIMATE ROAD</b>	Extra high lift profile. <b>Only</b> 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	<b>RALLY</b>	Extra high lift profile. <b>Only</b> 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	<b>RACE</b>	Extra high lift profile. <b>Only</b> 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	<b>GROUP A</b>	Extra high lift profile. <b>Only</b> 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	<b>RACE</b>	MECHANICAL - Extra high lift profile: <b>Only</b> 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	<b>RACE</b>	MECHANICAL - Extra high lift profile: <b>Only</b> 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	<b>RACE</b>	MECHANICAL - Extra high lift profile: <b>Only</b> 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	<b>DRAG RACE</b>	MECHANICAL - Extra high lift profile: <b>Only</b> 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	MIT51	BP255 or BP270 etc.	£420 Blank
EVO 4-7	MIT5	BP255 or BP270 etc.	£420 Blank
EVO 8	MIT58	BP255 or BP270 etc.	£420 Blank
EVO 9	MIT59	BP255 or BP270 etc.	£450 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	KBMIT51 270 / 285 / 300	X	X				X			X	X	£714 Blank
EVO 4-7	KBMIT5 270 / 285 / 300	X	X				X			X	X	£714 Blank
EVO 8	KBMIT58 270 / 285 / 300	X	X				X			X	X	£714 Blank
EVO 9	KBMIT59 270 / 285 / 300	X	X				X			X	X	£750 Blank

### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSMITS - Mitsubishi Evo single valve spring and caps set £189

SC21 - Mitsubishi Evo steel valve spring retainer set £71

SC21T - Mitsubishi Evo Titanium valve spring retainer set £205

PULDMITS - Mitsubishi Evo alloy vernier pulleys £191

PULDMITS9 - Mitsubishi Evo 9 alloy Exh vernier pulley £115

MITSADJM - Mitsubishi Evo Solid lifters £390.00

TBP34 - Mitsubishi Evo performance cam belt £39\*\*

\*\* 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		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	with clearance Inl	Exh		
NISBP270	<b>FAST ROAD</b>	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	£420 Blank
NISBP285	<b>ULTIMATE ROAD</b> <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	£420 Blank

**NISSAN ALMERA / PRIMERA 16v (ROLLER ROCKER ENGINES)**

Valve lifts quoted assume a rocker ratio of 1.59:1

NISBP270R	<b>FAST ROAD</b>	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	£420 Blank
NISBP285R	<b>ULTIMATE ROAD</b> <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	£420 Blank

**NISSAN MICRA 1.3 16v**

Valve lifts quoted assume a rocker ratio of 1:1

NISMICBP270	<b>FAST ROAD</b>	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	£210 Repro £572 Blank
NISMICBP285	<b>ULTIMATE ROAD</b>	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	£210 Repro £572 Blank

**NISSAN SUNNY / PULSAR GTi R**

Valve lifts quoted assume a rocker ratio of 1.59:1

NGTIRBP270	<b>FAST ROAD</b>	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	£420 Blank
NGTIRBP285	<b>ULTIMATE ROAD</b>	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	£420 Blank

**NISSAN SKYLINE R32 GTR**

Valve lifts quoted assume a rocker ratio of 1:1

NSKYBP270H	<b>FAST ROAD</b>	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	£315 Repro
NSKYBP285M	<b>ULTIMATE ROAD</b>	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	£315 Repro

**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULSSR20 - Nissan GTiR / Almera &amp; Primera vernier sprockets £189

# 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	£193 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	£193 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	£193 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	£193 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	£193 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	£193 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	£193 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	£193 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	£193 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	£193 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	£193 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	£357 Blank
KBP13300 / 320 / GPA1	X	X	X								X	£399 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	£357 Blank
KBP14300 / 320	X	X	X								X	£399 Blank

#### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSP13 - Peugeot 1360 single valve springs £52  
 FOLP13 - Peugeot 1360 cam followers £168  
 PULD205 - Peugeot 1360 alloy vernier pulley £105

TBP11 - Peugeot 205 1360 competition cam belt £26  
 TBP12 - Peugeot Xsi 1.4 & 306 1.6 competition cam belt £26

**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	<b>FAST ROAD</b>	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	£193 Blank	
VTRBP270RAL	<b>FAST ROAD</b> 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	£193 Blank	
VTRBP285	<b>ULTIMATE ROAD</b> 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	£193 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'

VTRBP270R	<b>FAST ROAD</b>	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	£193 Blank
VTRBP285R	<b>ULTIMATE ROAD</b> 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	£193 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)**

SAX16BP270H	<b>FAST ROAD</b>	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	£409 Blank
SAX16BP270T	<b>FAST ROAD</b>	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	£409 Blank
SAX16BP270S	<b>FAST ROAD</b>	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	£409 Blank
SAX16BP285H	<b>ULTIMATE ROAD</b>	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	£409 Blank
SAX16BP300H	<b>RALLY</b>		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	£409 Blank
SAX16BP300	<b>RALLY</b>		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	£409 Blank
SAX16BP320	<b>RACE</b>	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	£409 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	£409 Blank
KBVTR285	X	X	X								X	£441 Blank

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

KBSAX16270 / 270T / 285	X	X									X	£619 Blank
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**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULDVTR - Saxo VTR (40 tooth) alloy vernier pulley £105

PULDVTS - Pair Saxo VTS alloy vernier pulley £189

TBP39 - Saxo VTS 1.6 16v cam belt £39

VSSVTR - Saxo VTR (roller type) single valve spring set £53

VSSVTR2 - Saxo VTR (non-roller type) single valve spring set £53

VDSVTS - Saxo VTS double valve spring kit £252

FOLP13 - VTR non roller follower set £168

FOLVTSH - Saxo VTS hydraulic follower set £252

FOLVTSM - Saxo VTS solid follower set £340

FOLVTSM31 - Saxo VTS 31mm solid follower set £340

# 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	<b>FAST ROAD</b> 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	£193 Blank	
P16BP285	<b>ULTIMATE ROAD</b> 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	£193 Blank	
P16BP300	<b>RALLY</b>	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	£193 Blank	
P16BP320	<b>RACE</b> 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	£193 Blank	
P16GPA2	<b>GROUP A RALLY</b>	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	£193 Blank	
P16727	<b>HOT HATCH RACE</b> 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	£193 Blank	
P16528	<b>HOT ROD RACE</b> 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	£193 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	Exh	Inl ATDC	Exh BTDC	Inl with clearance	Exh		
P16VBP270	<b>FAST ROAD</b>	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	£210 Repro £514 Blank	
P16VBP285	<b>ULTIMATE ROAD</b> Piper valve springs (Part no VD5SM16) 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	£514 Blank	
P16VBP300	<b>RALLY</b> Piper valve springs (Part no VD5SM16) 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	£514 Blank	
P16VBP320	<b>RACE</b> Piper valve springs (Part no VD5SM16) 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	£514 Blank	
P16VGPA	<b>GROUP A RALLY</b> Piper valve springs (Part no VD5SM16) 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	£514 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	£336 Blank

## PEUGEOT MI16/S16 16v INCLUDE:

KBP16V270	X	X									X	£406 Repro £693 Blank
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### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

TBP13 - Peugeot Gti 1.6/1.9 >92 competition cam belt £26

TBP14 - Peugeot Gti 1.6/1.9 92-on competition cam belt £26

TBP15 - Peugeot 1.9 MI16 competition cam belt £39

PULD205 - Peugeot alloy vernier pulley £105

PULDMI16 - Peugeot MI16 vernier pulleys £180

VD5SM16 - Peugeot MI16 / S16 double valve spring kit £252

VDSP16 - Peugeot 1.6/1.9 Race double springs £168

FOLP16 - Peugeot 1.6/1.9 cam followers £147

FOLMI16M - Peugeot MI16 / S16 comp.solid cam followers £340

FOLMI16H - Peugeot MI16 / S16 hydraulic cam followers £252

**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 with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	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	£193 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	£210 Repro £409 Blank
GTI6BP285H	ULTIMATE ROAD	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	2000-7500	264 deg	264 deg	.428" 10.87mm	.428" 10.87mm	24 - 60 62 - 22	108 deg	110 deg	.072" 1.82mm	.063" 1.60mm	HYDRAULIC	£409 Blank
GTI6BP285	ULTIMATE ROAD	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	2500-7800	280 deg	280 deg	.435" 11.05mm	.435" 11.05mm	34 - 66 68 - 32	106 deg	108 deg	.107" 2.72mm	.095" 2.41mm	.010" / .25mm .012" / .30mm	£409 Blank
GTI6BP300	RALLY	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	3000-8000	290 deg	290 deg	.455" 11.57mm	.455" 11.57mm	39 - 71 71 - 39	106 deg	106 deg	.140" 3.56mm	.138" 3.51mm	.010" / .25mm .010" / .25mm	£409 Blank
GTI6BP320	RACE	Piper valve springs (Part No VDSP306) must be used. Fully mappable ecu recommended	4500-8500	300 deg	300 deg	.480" 12.19mm	.480" 12.19mm	46 - 74 76 - 44	104 deg	106 deg	.182" 4.62mm	.180" 4.57mm	.008" / .20mm .010" / .25mm	£409 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	£210 Repro	
GTI2BP270	FAST ROAD	Inlet cam only	1500-6500	15 BHP	260 deg	N/A	.380" 9.65mm	N/A	22 - 58	108 deg	N/A	.068" 1.72mm	N/A	HYDRAULIC	£220 Blank
GTI2BP285	ULTIMATE ROAD	Not recommended for use with std injection. Piper valve springs (Part No VSSP206) must be used	2000-7500	274 deg	274 deg	.430" 10.92mm	.430" 10.93mm	31 - 63 63 - 31	106 deg	106 deg	.098" 2.49mm	.098" 2.49mm	HYDRAULIC	£409 Blank	
GTI2BP300	RALLY	Not recommended for use with std injection. Piper valve springs (Part No VSSP206) must be used	3000-8000	296 deg	288 deg	.459" 11.66mm	.419" 10.65mm	42 - 74 70 - 38	106 deg	106 deg	.136" 3.45mm	.108" 2.74mm	.010" / .25mm .012" / .30mm	£409 Blank	
GTI2BP320	RACE	Not recommended for use with std injection. Piper valve springs (Part No VSSP206) must be used	4000-9000	300 deg	296 deg	.472" 11.99mm	.460" 11.68mm	48 - 72 72 - 44	102 deg	104 deg	.161" 4.09mm	.143" 3.63mm	.008" / .20mm .010" / .25mm	£409 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	£420 Repro £619 Blank

**PEUGEOT 206 2.0 16v GTI INCLUDE:**

KBPGTI2270R	X	X										X	£420 Repro
KBPGTI2270 *	X	X										X	£315 Blank

\* = Note this kit includes inlet cam &amp; followers only

**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

FOLGTI6M - 306 GTI6 comp.solid cam followers £340

VDSP306 - 306 GTI6 double valve springs kit £231

PULDXSI - Peugeot 2.0 8v vernier pulley £105

TBP14 - Peugeot 2.0 8v XSi cam belt £26

TBP28 - Peugeot S16 '96-on / GTI 6 competition cam belt £39

FOLGTI6H - 306 GTI6 hydraulic cam followers £252

PULDGTI6 - Pr 306 GTI6 vernier pulleys £189 (Note:For competition use)

TBP28 - Peugeot S16 '96-on / GTI 6 competition cam belt £39

SC14 - 306 GTI6 steel valve spring retainers £71

# 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	Inl with clearance	Exh		
PEUGTDBP270	FAST ROAD	1500-6500	15 BHP	236 deg	244 deg	.350"	.365"	6 - 50 54 - 10	112 deg	.022"	.027"	.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	<b>NEW</b>	1500-6500	8 BHP	236 deg	255 deg	.342"	.355"	8 - 48 58 - 18	110 deg	110 deg	N/A	N/A	HYDRAULIC	£126 Repro
PHDIBP285	ULTIMATE ROAD	<b>NEW</b>	1500-6500	12 BHP	258 deg	256 deg	.365"	.383"	19 - 59 58 - 18	110 deg	110 deg	N/A	N/A	HYDRAULIC	£126 Repro

## PORSCHE 924

Valve lifts quoted assume a rocker ratio of 1:1

PORBP270	FAST ROAD	1500-6200	8 BHP	278 deg	278 deg	.462"	.460"	29 - 69 69 - 29	110 deg	.088"	.060"	.008" / .20mm .010" / .25mm	£285 Blank
PORBP285	ULTIMATE ROAD	2000-7000	12 BHP	284 deg	284 deg	.462"	.460"	34 - 70 70 - 34	108 deg	.100"	.098"	.008" / .20mm .010" / .25mm	£285 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"	.342"	20 - 60 60 - 20	110 deg	.026"	.024"	.010" / .25mm .012" / .30mm	£126 Repro £199 Blank
R5TBP285	ULTIMATE ROAD	Piper valve springs Part no.VSSR5 must be used 2500-6500	20 BHP	270 deg	270 deg	.392"	.390"	23 - 67 67 - 23	112 deg	.037"	.035"	.010" / .25mm .012" / .30mm	£199 Blank
R5TBP300	RALLY	Piper valve springs Part no.VSSR5 must be used 2500-6500	20 BHP	276 deg	276 deg	.362"	.360"	26 - 70 71 - 25	112 deg	.068"	.062"	.008" / .20mm .010" / .25mm	£199 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"	.373"	29 - 69 65 - 25	110 deg	110 deg	N/A	N/A	HYDRAULIC	£306 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	£325 Blank

### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSR5 - Renault 5 Turbo vernier pulley £105  
VSSR5 - Renault 5 Turbo valve spring set £53

PULDPOR - Porsche 924 vernier pulley £105  
FOLPOR - Porsche 924 lightweight cam followers £210  
PULD306TD - Peugeot 306 TD vernier pulley £105

SC27 - 206 GTI steel valve spring retainer £71  
SC28 - 206 GTI steel valve spring retainer (solid follower) £71  
VSS206A - 206 GTI single valve spring & retainer set £163  
VSS206B - 206 GTI single valve spring & retainer set (solid followers)£163

# 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 with clearance		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
R16VBP270H	<b>FAST ROAD</b> 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	£210 Repro £409 Blank
RW16VBP270H	<b>WILLIAMS FAST ROAD</b> 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	£210 Repro £409 Blank
R16VBP285H	<b>ULTIMATE ROAD</b> 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	.078" 2.18mm	HYDRAULIC	£409 Blank
R16VBP300M	<b>RALLY</b> 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	£409 Blank
R16VBP320M	<b>RACE</b> Mechanical	4000-8300		300 deg	300 deg	.480" 12.19mm	.480" 12.19mm	46 - 74 76 - 44	104 deg	106 deg	.192" 4.88mm	.180" 4.57mm	.008" / .20mm .010" / .25mm	£409 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	<b>FAST ROAD</b>	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	£483 Blank
ARKV6BP285M	<b>ULTIMATE ROAD</b> 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	£483 Blank

## ROVER T SERIES 2.0 16v

Valve lifts quoted assume a rocker ratio of 1:1

ARTBP270H	<b>FAST ROAD</b>		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	£210 Repro
ARTBP285M	<b>ULTIMATE ROAD</b> 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	£210 Repro
ARTBP270HT	<b>FAST ROAD TURBO</b>		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	£210 Repro
ARTBP285MT	<b>ULTIMATE ROAD TURBO</b>		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	£210 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	£420 Repro £619 Blank
KBRW16V270H	X	X										X	£420 Repro £619 Blank
KBR16V285H	X	X										X	£619 Blank

## ROVER K SERIES V6 2.5 KV6 INCLUDE:

KBARKV6270	X	X										X	£819 Blank
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### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDT - Pr T-Series alloy vernier pulleys £189  
 FOLTH - T series hydraulic cam follower set £252  
 FOLTM - T series solid cam follower & shim set £340

PULDCLIO - Pr clio 16v alloy vernier pulleys £189  
 TBP16 - Clio 16v competition cam belt £39  
 FOLCLIOH - Clio 16v hydraulic cam followers £252  
 FOLCLIOM - Clio 16v comp.solid cam followers £340

FOLKV6H - KV6 hydraulic cam follower set £340  
 VSSKV6 - Uprated single valve spring set £165  
 VDSKV6 - Uprated double valve spring set £228.38

# CAMSHAFTS ROVER K SERIES 16v

Valve lifts quoted assume a rocker ratio of 1:1

Many other profiles are available. Ask for details

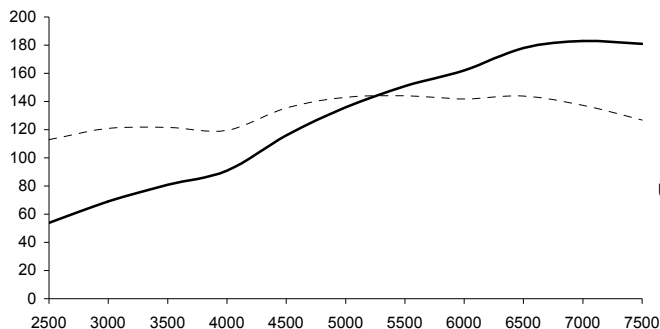
Part No.	Application	Power Band	Power Increase	Duration		Valve Lift		Timing	Full Lift		Lift @ TDC		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl with clearance	Exh		
ARKBP255H	<b>FAST ROAD</b> Designed for use in 1400 engine.Vernier pulleys advised.	2000-7000	10 BHP	248 deg	248 deg	.348" 8.84mm	.348" 8.84mm	14 - 54 54 - 14	110 deg	110 deg	.045" 1.14mm	.045" 1.14mm	HYDRAULIC	£407 Blank
ARKBP270H	<b>FAST ROAD</b> 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	£407 Blank
VVCBP270	<b>FAST ROAD</b> 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	£147 Repro £208 Blank
ARKBP285H	<b>ULTIMATE ROAD</b> 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	£407 Blank
ARKBP285M	<b>ULTIMATE ROAD</b> 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	£407 Blank
ARKBP300M	<b>SPRINT / HILL CLIMB</b> 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	£407 Blank
ARKBP320M	<b>RACE / SPRINT</b> 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	£407 Blank
ARK1227	<b>SLR 500</b> 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	£407 Blank
ARK1444	<b>RACE / SPRINT</b> 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	£407 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	£577 Blank
KBARK285	X	X		X								X	£661 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	£819 Blank
KK2 COMP	X	X	X			X	X	X	X		X	X	£1323 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 & exhaust cam any spec £209
- TBP17 - K series wide competition cam belt £39
- FOLKH - K series hydraulic cam follower set £252
- FOLKM - K series solid cam follower & shim set £340
- PLATES - K series end/actuator cover plate,gasket set £120
- ROTOR - K Series rotor arm attachment £21

- PULDK - Pair K series alloy vernier pulleys £189
- VDSK - Uprated double valve spring set £152
- VSSK - Uprated single valve spring set £110
- SC3 - Steel spring cap set to suit FOLKM £71
- SC19 - Steel spring cap set to suit FOLKH £71

# 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	.112 2.84mm	.054" 1.37mm	.054" 1.37mm	HYDRAULIC	£197 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	.108 2.74mm	.072" 1.83mm	.081" 2.06mm	HYDRAULIC	£197 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	.110 2.80mm	.063" 1.60mm	.063" 1.60mm	HYDRAULIC	£197 Blank
V8BP285	ULTIMATE ROAD	2000-6500	30 BHP	276 deg	276 deg	.440" 11.18mm	.440" 11.18mm	31 - 65 65 - 31	107 deg	.107 2.72mm	.070" 1.78mm	.070" 1.78mm	HYDRAULIC	£197 Blank
V8BP300H	RALLY RACE	2500-7000		286 deg	286 deg	.446" 11.33mm	.446" 11.33mm	39 - 67 67 - 39	104 deg	.104 2.64mm	.108" 2.74mm	.108" 2.74mm	HYDRAULIC	£197 Blank
V8BP300	RALLY RACE	2500-7000		300 deg	300 deg	.507" 12.87mm	.505" 12.82mm	44 - 76 76 - 44	107 deg	.107 2.72mm	.168" 4.27mm	.177" 4.36mm	.018" / .45mm .020" / .50mm	£197 Blank
V8BP320	RACE	3500-8000		306 deg	306 deg	.537" 13.64mm	.535" 13.59mm	47 - 79 75 - 51	106 deg	.106 2.69mm	.168" 4.27mm	.188" 4.78mm	.018" / .45mm .020" / .50mm	£197 Blank
V8GPAK	GROUP A	2000-6500		300 deg	300 deg	.390" 9.91mm	.390" 9.91mm	44 - 76 76 - 44	106 deg	.106 2.69mm	.095" 2.41mm	.095" 2.41mm	HYDRAULIC	£197 Blank

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

V846BP270	FAST ROAD	1000-5500	21 BHP	280 deg	268 deg	.450" 11.42mm	.467" 11.87mm	28 - 72 66 - 22	112 deg	.112 2.84mm	.054" 1.37mm	.064" 1.63mm	HYDRAULIC	£243 Blank
V846BP285	ROAD RALLY	1800-6000	35 BHP	280 deg	286 deg	.477" 12.11mm	.477" 12.11mm	30 - 70 73 - 33	110 deg	.110 2.79mm	.074" 1.88mm	.083" 2.11mm	HYDRAULIC	£243 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	£399 Blank

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

KBV846270 / 285	X	X	X								X	£441 Blank
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#### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULSV8 - Rover V8 vernier duplex kit £110

FOLV8 - Rover V8 cam hydraulic follower set £137

FOLV8M - Rover V8 cam solid follower set £147

VSSV8 - Uprated single valve spring set £110

VTSV8 - Triple valve spring set £158

TCV8 - Duplex timing chain £18.38

# 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 4 - 9 ENGINES

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		
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	£357 Rebro £630 Blank
SUBBP285H	ULTIMATE ROAD HYDRAULIC	2500-7000		264 deg	264 deg	.400" 10.13mm	.400" 10.13mm	22 - 62 62 - 22	110 deg	110 deg	.056" 1.43mm	.057" 1.44mm	HYDRAULIC	£630 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	£357 Rebro £630 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	£357 Rebro £630 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	£210 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	£210 Rebro
SSBP300	RALLY	4000-8500		290 deg	284 deg	.356" 9.04mm	.340" 8.64mm	41 - 69 66 - 38	104 deg	104 deg	.108" 2.74mm	.088" 2.24mm	.008" / .20mm .010" / .25mm	£210 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	£126 Rebro £420 Billet
IMPBP285	ULTIMATE ROAD Rebro 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	£126 Rebro £420 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	£126 Rebro £420 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	£126 Rebro £420 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	£420 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	£420 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	£420 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	£420 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	<b>FAST ROAD</b>	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	£546 Blank
TOY20VBP285	<b>ULTIMATE ROAD</b>	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	£546 Blank
TOY20VBP300	<b>RALLY</b>	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	£546 Blank
TOY20VBP320	<b>RACE</b>	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	£546 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	<b>FAST ROAD</b>	2000-8500	15 BHP	268deg	288deg	268deg	284deg	.362" 9.20mm	.472" 12.00mm	.362" 9.20mm	.433" 11.00mm	.008" / .20mm .010" / .25mm	£556 Blank
VVTLIBP285	<b>ULTIMATE ROAD</b>	2000-8500		276deg	288deg	276deg	284deg	.382" 9.70mm	.482" 12.30mm	.380" 9.65mm	.445" 11.30mm	.008" / .20mm .010" / .25mm	£556 Blank
VVTLIBP320	<b>RACE</b>	2000-8500		276deg	304deg	276deg	296deg	.382" 9.70mm	.500" 12.70mm	.380" 9.65mm	.460" 11.68mm	.008" / .20mm .010" / .25mm	£556 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

TOYSGBP270	<b>FAST ROAD NATURALLY ASPIRATED</b>	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	£210 Repro £420 Blank
TOYSGBP270T	<b>FAST ROAD TURBO</b>	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	£210 Repro £420 Blank
TOYSGBP285	<b>ULTIMATE ROAD NATURALLY ASPIRATED</b>	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	£210 Repro £420 Blank
TOYSGBP285T	<b>ULTIMATE ROAD TURBO</b>	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	£210 Repro £420 Blank
TOYSGTBP300	<b>RALLY NATURALLY ASPIRATED</b>	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	£210 Repro £420 Blank

**TOYOTA SUPRA 2JZ**

Valve lifts quoted assume a rocker ratio of 1:1

TOY2JZBP270	<b>FAST ROAD</b>	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	£472 Blank
TOY2JZBP285	<b>ULTIMATE ROAD</b>	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	£472 Blank
TOY2JZBP300	<b>RALLY</b>	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	£472 Blank

**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULD3SG - Toyota 3SG / 3SGTE vernier pulleys £189

VSS3SG - TOYOTA 3SGE / 3SGTE single valve spring set £110

VDS3SG - TOYOTA 3SGE / 23SGTE double valve spring set £163

# 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	£84 Reppo £157 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	£84 Reppo £157 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	£84 Reppo £157 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	£84 Reppo £157 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	£84 Reppo £157 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	£84 Reppo £157 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	£84 Reppo £157 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	£157 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	£126 Reppo £210 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	£126 Reppo £210 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	£126 Reppo £210 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	£126 Reppo £210 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	£126 Reppo £210 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	£168 Reppo £231 Blank

## TRIUMPH 2.0 / 2.5 6 Cyl

KBTR6270 / 285	X	X	X								X	£210 Reppo £283 Blank
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ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

VSSTR6 - Triumph 6 cyl single spring set £63  
VDSTR6 - Triumph 6 cyl double spring set £95  
FOLT6 - Triumph 6 cyl cam follower set £82

**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	<b>FAST ROAD</b>	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	<b>£126 Repro</b> <b>£515 Billet</b>	
TRSBP285	<b>ULTIMATE ROAD</b>	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	<b>£126 Repro</b> <b>£515 Billet</b>	
TRSBP300	<b>RALLY</b>	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	<b>£126 Repro</b> <b>£515 Billet</b>	
TRSBP320	<b>RACE</b>	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	<b>£126 Repro</b> <b>£515 Billet</b>	

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

Valve lifts quoted assume a rocker ratio of 1.52:1

OPBP255	<b>MILD ROAD</b>	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	<b>£157 Blank</b>
OPBP270	<b>FAST ROAD</b>	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	<b>£157 Blank</b>
OPBP285	<b>ULTIMATE ROAD</b>	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	<b>£157 Blank</b>
OPBP300	<b>RALLY</b>	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	<b>£157 Blank</b>
OPBP320	<b>RACE</b>	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	<b>£157 Blank</b>

**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	<b>MILD ROAD</b>	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	<b>£189 Blank</b>
OP6BP270	<b>FAST ROAD</b>	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	<b>£189 Blank</b>
OP6BP285	<b>ULTIMATE ROAD</b>	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	<b>£189 Blank</b>

**VAUXHALL OPEL OMEGA / VECTRA 2.5 / 3.0 V6 24v**

Valve lifts quoted assume a rocker ratio of 1:1

OPV6BP270A	<b>FAST ROAD</b>	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	<b>£336 Repro</b> <b>£580 Blank</b>
OPV6BP270B	<b>FAST ROAD</b>	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	<b>£336 Repro</b> <b>£580 Blank</b>

**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	<b>X</b>	<b>X</b>	<b>X</b>								<b>X</b>	<b>£294 Blank</b>

**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULSOP - Vauxhall CIH vernier duplex kit £126

FOLOP - Vauxhall CIH 4 cyl solid cam follower set £95

VSSOP - Vauxhall CIH 4 cyl single spring/seat kit £84

# 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	<b>FAST ROAD</b>	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	£189 Blank	
A13BP270Hi	<b>FAST ROAD</b> 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	£189 Blank	
A13BP285H	<b>ULTIMATE ROAD</b> 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	£189 Blank	
A13BP300H	<b>RALLY</b> 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	£189 Blank	
A13BP320M	<b>RACE</b> 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	£189 Blank	
A13743	<b>RACE</b> 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	£189 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	<b>FAST ROAD</b>	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	£189 Blank
A18BP270HB	<b>FAST ROAD</b> 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	£189 Blank
A18BP285H	<b>ULTIMATE ROAD</b> 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	£189 Blank
A18BP300M	<b>RALLY</b> 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	£189 Blank
A18BP320M	<b>RACE</b> 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	£189 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	£310 Blank
KBV13300H / 320H	X	X	X	X							X	£336 Blank

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

KBV18270HA / 270HB / 285	X	X		X							X	£310 Blank
KBV18300H / 320H	X	X	X	X							X	£310 Blank

#### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDA13 - Vauxhall 1.3 alloy vernier pulley £99

PULDGTE - Vauxhall 1.4/1.6 GTE vernier pulley £99

PULDA18 - Vauxhall 1.8/2.0 alloy vernier pulley £99

VSSAST18 - Vauxhall 1.6/1.8 single spring kit £58

ASTADJH - Vauxhall fwd hydraulic adjusters £68.25

ASTADJM - Vauxhall fwd solid adjusters £309.75

FOLAST - Vauxhall fwd cam follower set £105

FOLASTM - Vaux fwd follower set for use with ASTADJM £117

VSSAST13 - Vauxhall 1.3/1.4/1.6 single spring kit £58

TBP18 - Vauxhall 1.3 1980 on comp.cam belt £26

TBP19 - Vauxhall 1.4/1.6 (104 tooth) comp.cam belt £26

TBP20 - Vauxhall 1.4/1.6 (111 tooth) comp.cam belt £26

TBP21 - Vauxhall 1.6/1.8/2.0 comp.cam belt £26

**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	<b>FAST ROAD</b>	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	£210 Repro £410 Blank
C16VBP285H	<b>ULTIMATE ROAD</b> <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	£410 Blank
C16VBP300H	<b>RALLY</b>	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	£410 Blank
C16VBP300M	<b>RALLY</b>	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	£410 Blank
C16VBP320M	<b>RACE</b>	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	£410 Blank

**VAUXHALL ASTRA / VX220 2.2 16v**

Valve lifts quoted assume a rocker ratio of 1.72:1

VX22BP270	<b>FAST ROAD</b>	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	£306 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	<b>FAST ROAD</b>	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	£210 Repro £410 Blank
ECOBP285H	<b>ULTIMATE ROAD</b> <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	£410 Blank
ECOBP300H	<b>RALLY</b>	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	£410 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	£420 Repro £619 Blank
KBC16V285H	X	X									X	£619 Blank
KBC16V300H	X	X	X								X	£735 Blank

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

KBECO270H / 285H	X	X									X	£420 Repro £619 Blank
KBECO285H	X	X									X	£619 Blank
KBECO300H	X	X	X								X	£735 Blank

**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULDCOR - Pr vauxhall corsa 16v alloy vernier pulleys £178

PULDECO - Pr vauxhall ecotec alloy vernier pulleys £178

TBP36 - Vauxhall Ecotec 1.8/2.0 cam belt £39

VDSCOR - Vauxhall corsa 16v double valve spring kit £231

SC16 - Vauxhall corsa 16v steel valve spring retainers £71

# CAMSHAFTS VAUXHALL / OPEL CORSA SRI / 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	with clearance	Inl		
Z18BP270	FAST ROAD	2000-6800	10 BHP	240 deg	244 deg	.347" 8.81mm	.344" 8.72mm	10 - 50 52 - 12	110 deg	110 deg	.017" 0.44mm	.010" 0.26mm	HYDRAULIC	£210 Repr £409 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	£210 Repr £409 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	£210 Repr £409 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	£409 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	£409 Blank
A16VBP300M	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	£409 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	£409 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	£409 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	£409 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	£409 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	£210 Repr £409 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	£420 Repr £619 Blank

## VAUXHALL / OPEL ASTRA / CAVALIER / CALIBRA 16v C20XE

KBA16V270H / 270HT	X	X									X	£420 Repr £619 Blank
KBA16V285H / 300H	X	X	X								X	£735 Blank

## VAUXHALL ASTRA VXR 2.0 TURBO Z20LEH

KBVXR270H	X	X									X	£420 Repr £619 Blank
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### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDA20 - Pr Vauxhall 2.0 16v alloy vernier pulleys £178

PULDA20B - Pr Vauxhall 2.0 16v '93-on alloy vernier pulleys £178

VDSAST16 - Vauxhall 2.0 16v double valve spring kit £231

SC17 - Vauxhall 2.0 16v steel valve spring retainers £71

FOLAST16H - Vauxhall 16v hydraulic follower set £252

FOLAST16M - Vauxhall 16v comp.solid follower set £340

TBP22 - Vauxhall 2.0 16v >92 competition cam belt £39

TBP35 - Vauxhall 2.0 16v 93> competition cam belt £39

TBP42 - Vauxhall Z18XE comp cam belt £39

**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	<b>FAST ROAD TURBO</b>	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	£336 Blank	
AUD5BP270H	<b>FAST ROAD</b>	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	£336 Blank	
AUD5BP285H	<b>ULTIMATE ROAD</b>	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	£336 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	<b>FAST ROAD</b>	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	£193 Blank
G40BP270H	<b>FAST ROAD</b>	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	£193 Blank
VPHBP285H	<b>ULTIMATE ROAD</b>	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	£193 Blank
VPHBP300H	<b>RALLY</b>	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	£193 Blank

**V.A.G. GOLF GTI Mk1 MECHANICAL**

Valve lifts quoted assume a rocker ratio of 1:1

GTIBP270	<b>FAST ROAD</b>	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	£193 Blank
GTIBP285	<b>ULTIMATE ROAD</b>	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	£193 Blank
GTIBP300	<b>RALLY</b>	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	£193 Blank
GTIBP320	<b>RACE</b>	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	£193 Blank
GTI528	<b>RACE HOT ROD</b>	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	£193 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	£315 Blank
KBG40270H	X	X									X	£315 Blank

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

KBVG270 / 285	X									X	X	£278 Blank
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**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULDGTI - VW Golf Gti 8v/G60 vernier pulley £105

FOLVWH - VW Golf hydraulic cam follower set £126

TBP23 - VW Golf 1.5/1.6/1.8 comp.cam belt £26

# 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	.069" 1.75mm	.069" 1.75mm	HYDRAULIC	£193 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	£193 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	£193 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	£193 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	£193 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	£193 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	£315 Blank

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

KBVG20270	X	X									X	£315 Blank
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## V.A.G. GOLF G60 SUPERCHARGED INCLUDE:

KBG60270 / 285	X	X									X	£315 Blank
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### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

PULDGTI - VW Golf Gti 8v/G60 alloy vernier pulley £105  
FOLVWH - VW Golf hydraulic cam follower set £126

TBP23 - VW Golf 1.5/1.6/1.8 comp.cam belt £26  
TBP24 - VW Golf 2.0 competition cam belt £26

**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	<b>FAST ROAD</b>	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	<b>£210 Repro</b> <b>£410 Blank</b>
V16VBP285H	<b>ULTIMATE ROAD</b> 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	<b>£410 Blank</b>
V16VBP300H	<b>RALLY</b>	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	<b>£410 Blank</b>
V16VBP300M	<b>RALLY</b> 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	<b>£410 Blank</b>
V16VBP320M	<b>RACE</b> 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	<b>£410 Blank</b>

**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	<b>FAST ROAD</b>	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	<b>£231 Repro</b> <b>£410 Blank</b>
VR6BP285H	<b>ULTIMATE ROAD</b> 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	<b>£410 Blank</b>
VR6BP300H	<b>RALLY</b>	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	<b>£410 Blank</b>

**V.A.G. 1.8T 20v**

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	Inl Exh		
AUD20TBP270	<b>FAST ROAD</b>	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	<b>£483 Blank</b>
AUD20TBP285	<b>ULTIMATE ROAD</b>	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	<b>£483 Blank</b>
AUD20TBP300	<b>COMPETITION / TRACK DAY</b>	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	<b>£483 Blank</b>

**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	<b>X</b>	<b>X</b>									<b>X</b>	<b>£420 Repro</b> <b>£619 Blank</b>

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

KBVR6270H / 285H / 300H	<b>X</b>	<b>X</b>									<b>X</b>	<b>£441 Repro</b> <b>£619 Blank</b>
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**ADDITIONAL COMPONENTS FOR ABOVE ENGINES:**

PULDV16V - VW Golf 16v alloy vernier pulley £105  
PULSV16V - VW Golf 16v internal vernier sprocket £61  
FOLVW16H - VW Golf 16v hydraulic cam follower set £252  
FOLVW16M - VW Golf 16v comp.solid cam follower set £340  
FOLVR6H - VW Golf VR6 hydraulic cam follower set £189

PULDV20V - VW / AUDI 1.8T 20v alloy vernier pulley £105  
TBP40 - Early VAG 1.8T 20v comp.cam belt £39  
TBP41 - Late VAG 1.8T 20v comp.cam belt £39  
TBP25 - VW Golf 1.8 16v comp.cam belt £39  
TBP29 - VW Golf 2.0 16v comp.cam belt £39

# 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		Valve Clearance	Price exc.VAT
				Inl	Exh	Inl	Exh		Inl ATDC	Exh BTDC	Inl	Exh		
VB18BP270	<b>FAST ROAD</b>	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	<b>£126 Repr</b> <b>£189 Blank</b>
VB18BP285	<b>ULTIMATE ROAD</b>	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	<b>£126 Repr</b> <b>£189 Blank</b>
VB18BP300	<b>RALLY</b>	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	<b>£126 Repr</b> <b>£189 Blank</b>
VB18BP320	<b>RACE</b>	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	<b>£189 Blank</b>

## VOLVO T5

Valve lifts quoted assume a rocker ratio of 1:1

V5BP270H	<b>FAST ROAD</b>	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	<b>£262 Repr</b>
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### ADDITIONAL COMPONENTS FOR ABOVE ENGINES:

FOLB18 - SET VOLVO B18 CAM FOLLOWERS £63

SC40 - SET VOLVO B18 SPRING CAPS £42

VDSB18 - SET VOLVO B18 DOUBLE VALVE SPRING KIT INC CAPS & SEATS £147

SSB18 - SET VOLVO B18 SPRING SEATS £34

## MISCELLANEOUS ITEMS

ASTADJH	ASTRA HYDRAULIC ADJUSTERS	£ 68.25	ROTOR	K SERIES ROTOR ARM ATTACHMENT	£ 21.00
ASTADJM	ASTRA MECHANICAL ADJUSTERS	£ 309.75	SBAR	FORD SOHC SPRAY BAR	£ 10.00
BSTUD	FORD SOHC BALL STUDS	£ 27.30	SSCVH	CVH COMBINED SPRING SEATS & SEALS	£ 26.00
COSWASH	COSWORTH YB 5mm THRUST SPACER	£ 7.35	SSDUR	DURATEC SPRING SEATS	£ 40.00
DISC	TIMING DISC	£ 5.25	SSB18	VOLVO B18 SPRING SEATS	£ 34.00
LUBE	BOTTLE OF CAM LUBE	£ 4.20	TCCMIN	A SERIES DUPLEX TIMING CHAIN	£ 18.38
MINKEY2	A SERIES 2 DEG OFFSET KEY	£ 14.70	TCOP	OPEL CIH DUPLEX TIMING CHAIN	£ 18.38
MINKEY4	A SERIES 4 DEG OFFSET KEY	£ 14.70	TCV8	ROVER V8 DUPLEX TIMING CHAIN	£ 18.38
MINKEY6	A SERIES 6 DEG OFFSET KEY	£ 14.70	TCXF	FORD XFLOW DUPLEX TIMING CHAIN	£ 18.38
MITSADJM	MITSUBISHI EVO SOLID LIFTERS	£ 399.00	VSODUR	DURATEC OIL SEALS	£ 42.00
PLATES	K SERIES VVC CONVERSION PLATE KIT	£ 120.75	VSOOHC	FORD SOHC VALVE STEM OIL SEALS	£ 10.00
PRODISC	PROFESSIONAL 10" DIA ALLOY T/DISC	£ 42.00	XFDOW3	FORD XFLOW 3 DEG OFFSET DOWEL	£ 21.00
PULDAUX	FORD SOHC ALLOY AUX DRIVE PULLEY	£ 46.20	XFDOW7	FORD XFLOW 5 DEG OFFSET DOWEL	£ 21.00
PULXFC	FORD XFLOW CRANK PULLEY	£ 44.10	XFDOW9	FORD XFLOW 7 DEG OFFSET DOWEL	£ 21.00

**AUSTIN ROVER**

H0525SP7030S	AUSTIN MINI 1300CC 73.5MM BORE.030" MLS-NO WATER HOLES"	£66.12
C4146-030	AUSTIN MINI 1300CC 73MM BORE .030" MLS HEAD GASKET	£66.12
C4146-040	AUSTIN MINI 1300CC 73MM BORE.040" MLS HEAD GASKET	£66.12
C4148-040	MG MIDGET 1275CC 74MM BORE.040" MLS HEAD GASKET	£66.12
C4147-040	MGB 4 CYL 75-80 HEAD 83MM.040" MLS	£66.12

**BMW**

C4308-027	BMW MINI COOPER 78.5MM.027" MLS HEAD GASKET	£66.12
C4293-051	BMW 1766/1990cc 72-88 90MM.051" MLS M10 ENGINE	£104.05

**COVENTRY CLIMAX**

C4267-059	COVENTRY CLIMAX 2L FPF 82MM.059" CFM-20 HEAD GASKET"	£66.12
C4139-043	COVENTRY CLIMAX 1.2&1.5L 78MM.043" CFM-20 MODEL FWB/E"	£60.31
C4229-043	COVENTRY CLIMAX 2L OB 80MM.043" CFM-20 MODEL FWA/B/E"	£60.31

**FORD**

C5756-051	FORD 1.6&1.8L CVH 83MM.051" MLS HEAD GASKET	£69.44
C4350-070	FORD COSWORTH YB 92.5M MLS.070" GPA MLS-5 LAYER HEAD"	£84.85
C4350-051	FORD COSWORTH YB 92.5MM MLS.051" MLS PERFORMANCE GROUP A	£66.12
H2389030S	FORD DURATECH 2.3L 90MM.030" MLS HEAD GASKET	£69.44
H2264SP6030S	FORD DURATECH 2.3L 90MM.030" MLS W/12MM STUD HOLES"	£69.44
C4279-027	FORD FOCUS/CONTOUR/ZX2 87MM.027" MLS 2L-ZETEC HEAD GASKET"	£63.33
C4218-040	FORD PINTO SOHC 2L 92.5MM.040" MLS STANDARD HEAD GASKET	£66.12
H1267SP1040S	FORD PINTO SOHC 2L 94.5MM.040" MLS STANDARD HEAD GASKET	£66.12
C4174	FORD/COS/LOTUS BDA CASE KITBELT DRIVEN DOHC 16V	£34.74
C4248	FORD/COSWORTH YB CASE KIT.060" AFM	£78.54
VC051060AFM	FORD/COSWORTH YB VALVE COVER.060" AFM	£20.87

**HONDA**

C8702-027	HON CBR1000RR 04-07 75MM BORE.027" MLS HEAD GASKET	£59.05
C8499	HON CBR1100XX 97-03 81MM BORE.030" MLS HEAD GASKET	£59.05
C8736	HON CBR600RR 07 68.5MM BORE.027" MLS HEAD GASKET (STOCK)	£56.22
C4255-030	HONDA PRELUDE 87MM '92-96'2.2LTR VTEC .030"MLS HEAD H22"	£66.12

**JAGUAR**

VC053060AFM	JAG 3.4/3.8/4.2L CAM COVER.060" TRIM TO FIT ALL MODELS	£14.87
WP132060AFM	JAG 3.4/3.8L THERMOSTAT COVER.060" AFM GASKET	£1.65
H1762SP3040XP	JAG 3.4L 6 CYL 84MM BORE.040" MLS HEAD GASKET	£115.77
H1762SP2040XP	JAG 3.4L 6 CYL 85MM BORE.040" MLS HEAD GASKET	£115.77
H1763SP1040XP	JAG 3.8L 6 CYL 89MM BORE.040" MLS HEAD GASKET	£115.77
H1763SP1040XP	JAG 3.8L 6 CYL 89MM BORE.040" MLS HEAD GASKET	£115.87

H1763SP1051XP	JAG 3.8L 6 CYL 89MM BORE.051" MLS HEAD GASKET	£115.77
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**KAWASAKI**

C8460-018	KAW ZX-14 06-UP 84MM BORE.018" MLS HEAD GASKET	£59.05
C8570	KAW ZX-9R 00-03 77MM BORE.027" MLS HEAD GASKET	£59.05

**LOTUS**

C4103-040	LOTUS 4 CYL HEAD GASKET 83MM.040 MLS	£66.12
C4142-040	LOTUS 4 CYL HEAD GASKET 86MM.040 MLS	£66.12
H0464SP5040XP	LOTUS TWIN CAM 84MM HEAD.040" XP W/NONEMBOSSED CENTER	£66.12

**MITSUBISHI**

C4233-051	MIT 4G63/T 85.5MM .051"MLS"ECLIPS,GALANT,LANCER THRU EVO3	£66.12
C4243-051	MIT 6G72/6G72D4 V-6 93MM.051" MLS DIAMANTE, 3000GT	£66.12
C4156-051	MIT LANCER EVO4-8 86MM BORE.051" MLS 4G63 MOTOR 96-UP"	£66.12

**NISSAN**

C4318-051	NIS RB-25 6 CYL 87MM.051" MLS HEAD GASKET	£123.98
C4320-051	NIS RB-26 6 CYL 87MM.051" MLS HEAD GASKET	£123.98
C4130-040	NIS SR20DE/DET 88.5MM FWD.040 MLS W/ NO EXTRA OIL HOLES	£66.12

**PEUGEOT**

C4225-051	PEUG P405 M-16 84MM.051" MLS HEAD GASKET	£74.38
C4493-060	PEUGEOT 106 16V 97-05 79MM.060" MLS-5 1.6L TU5J4 MOTOR"	£93.93

**PORSCHE**

C4149-050	PORSCHE 924 HD GSKT 88MM.050" COPPER HEAD GASKET	£76.06
C4272-040	PORSCHE 944 2.5L 100.5MM.040" MLS HEAD GASKET	£66.12

**RENAULT**

C4540-051	RENAULT CLIO 16V 1.8/2.0 84MM.051" MLS '89-99' F7P/F7R MOTR"	£74.78
C4519-030	RENAULT CLIO16V 1.8/2.0 84.5MM.030" MLS HEAD F4P / F4R MOTOF	£74.78

**ROVER**

C4366-040	ROV V8 89MM BORE.040" MLS 10 BOLT HEAD 94-UP"	£67.77
C4367-040	ROV V8 89MM BORE.040" MLS 14 BOLT HEAD 70-93"	£67.77

**SUZUKI**

C8656-018	SUZ GSX1300R BUSA 99-UP 81MM.018" MLS HEAD GASKET	£64.25
C8656	SUZ GSX1300R BUSA 99-UP 81MM.030" MLS HEAD GASKET	£56.22
C8660	SUZ GSX1300R BUSA 99-UP 82MM.030" MLS HEAD GASKET	£56.22
C8657-018	SUZ GSX1300R BUSA 99-UP 83MM.018" MLS HEAD GASKET	£64.25
C8657	SUZ GSX1300R BUSA 99-UP 83MM.030" MLS HEAD GASKET	£56.22
C8658	SUZ GSX1300R BUSA 99-UP 84MM.030" MLS HEAD GASKET	£56.22
C8659-018	SUZ GSX1300R BUSA 99-UP 85MM.018" MLS HEAD GASKET	£64.25
C8659	SUZ GSX1300R BUSA 99-UP 85MM.030" MLS HEAD GASKET	£56.22
C8585	SUZ GSX1300R BUSA 99-UP BASE.010" S/S GASKET 1299-1360CC"	£19.68
C8587AFM	SUZ GSX1300R BUSA 99-UPAFM ENGINE CASE REBUILD KIT	£49.11
OP269060AFM	SUZ GSX-R1000 07-08 OIL PAN.060" AFM GASKET	£9.79
C8752AFM	SUZ GSXR1000 2007-08 AFMENGINE CASE REBUILD KIT	£36.21
C8302-018	SUZ GSX-R600 06-07 68MM BORE.018" MLS HEAD GASKET	£67.46
C8302	SUZ GSX-R600 06-07 68MM BORE.027" MLS HEAD GASKET	£59.05
C8742	SUZ GSX-R600 06-08 750 06-08ENGINE CASE REBUILD KIT	£29.93
C8717-018	SUZ GSX-R750 06-07 70MM BORE.018" MLS HEAD GASKET	£67.46
C8717	SUZ GSX-R750 06-07 70MM.027" MLS HEAD GASKET	£59.05
C8214-018	SUZ GSXR750/1000 '00-'08 75MM.018" MLS HEAD GASKET	£67.46
C8214	SUZ GSXR750/1000 '00-'08 75MM.030" MLS HEAD GASKET	£59.05
EC945032AFM	SUZ GSXR750/1000 '04-'05 CAM.032" AFM CHAIN TENSIONER GSKT	£2.37

**SUBARU**

C4261-045	SUB EJ20GN TURBO 93MM.045" MLS GSK-DOHC 16V TURBO"	£35.51
C4263-051	SUB EJ22E TURBO 98MM.051" MLS GSK SOHC 16V TURBO	£35.51

**TOYOTA**

C4413	TOY 4AGE 88-91 COMP KITW/O HEAD GASKET	£85.02
C4170-040	TOY 4AG-GE 81MM BORE.040" MLS HEAD GASKET	£66.12
C4166-040	TOY 4AG-GE 83MM.040" MLS HEAD GASKET	£66.12
C4314-040	TOYOTA 3S-GE/3S-GTE 87MM 87-97.040" MLS HEAD GASKET	£66.12
C4275-051	TOYOTA SUPRA '87-92' 86MM.051" MLS 7MGTE MOTOR	£123.98

**VAUXHALL**

C5768-040	GM ECOTEC 2.2L DOHC 87MM.040" MLS HEAD-L61/L42 MOTOR"	£69.44
C4216-051	VAUXHALL 16 VALVE 2L 88MM.051" MLS HEAD GASKET	£66.12
C4216-070	VAUXHALL 16 VALVE 2L 88MM.070" MLS 5-LAYER GASKET"	£80.81
C4257-051	VAUXHALL/OPEL 16 V 1.6L 82MM.051" MLS HEAD GASKET	£66.12

**VOLVO**

C4287-045	VOLVO B18A/B/D MOTOR 86MM.045" MLS HEAD GASKET 1961-68"	£82.63
C4289-045	VOLVO B20A/E/F MOTOR 92MM.045" MLS HEAD GASKET 1968-UP"	£82.63

**VOLKSWAGEN/AUDI**

C4247-051	VW/AUDI 1800/2000CC 83MM.051" MLS HEAD GASKET	£66.12
C4246-051	VW/AUDI 1800/2000CC 85MM.051" MLS HEAD GASKET	£66.12

**YAMAHA**

C8285	YAM FJ1100,1200 LEGEND APPROVE 77.5MM 1195THRU1202CC S/S	£56.22
C8146	YAM FJ1100/1200 ENG. CASE KITLEGEND APPROVED	£14.07
C8686	YAM R1 '04-'05 78MM HEAD.018" MLS	£56.22
C8612AFM	YAM YZF600R 1999-01 KITENGINE CASE REBUILD	£13.38
EC1152032AFM	YAM YZF-R6 06-07 CAM CHAIN.032" AFM TENSIONER GASKET	£1.58
OP201032AFM	YAM YZF-R6 06-07 OIL PAN.032" AFM GASKET	£10.12
C8710	YAM YZF-R6 06-08 68MM BORE.027" MLS HEAD GASKET	£59.05
C8720	YAM YZF-R6 06-08 ENGINE CASEREBUILD KIT	£19.68

**More Cometic gaskets are being added all the time please see our website [www.pipercams.co.uk](http://www.pipercams.co.uk) for the latest applications. All prices exclude VAT**

**CAM FOLLOWERS**

PART NO.	DESCRIPTION	PRICE
<b>ALFA</b>		
FOLAR16V	ALFA ROMEO 2.0 16v HYD	£ 252.00
<b>AUSTIN</b>		
FOLAHR	HEALEY 3000 RACE	£ 168.00
<b>BMC</b>		
FOLMIN	A SERIES	£ 37.00
FOLB	POST '71 B SERIES	£ 37.00
FOLB2	PRE '71 B SERIES	£ 63.00
<b>FORD</b>		
FOLBDA	BDA	£ 340.00
FOLCOSH	COSWORTH YB 16V HYD	£ 252.00
FOLCOSMGPA	COSWORTH YB 16V MEC	£ 340.00
FOLCVH	CVH HYD	£ 92.00
FOLCVHS	CVH SOLID LIFTERS	£ 180.00
FOLFN	PRE XFLOW NARROW STEM	£ 68.00
FOLFW	XFLOW 711M WIDE STEM	£ 46.00
FOLOHC	OHC 1.6/2.0	£ 58.00
FOLV6	V6 3.0 ESSEX	£ 84.00
FOLV6G	V6 2.3/2.8/2.9 GERMAN	£ 84.00
FOLZETAH	ZETEC HYD	£ 252.00
FOLZETAM	ZETEC MEC	£ 378.00
FOLKA	KA	£ 47.00
FOLCOSMLS	COSWORTH YB LONG STEM MECH	£ 340.00
<b>PEUGEOT</b>		
FOLVTSH	106 GTI / SAXO VTS 16V HYD	£ 252.00
FOLVTSM	106 GTI / SAXO VTS 16V MEC	£ 340.00
FOLMi16H	1.9 / 2.0 MI16 16V HYD	£ 252.00
FOLMi16M	1.9 / 2.0 MI16 16V MEC	£ 340.00
FOLGTI6H	306 GTI6 HYD	£ 252.00
FOLGTI6M	306 GTI6 MEC	£ 340.00
FOLP13	205/106 1.3/1.4	£ 168.00
FOLP16	205/309 1.6/1.9	£ 147.00
FOLP206H	206 GTI HYD	£ 252.00
FOLP206M	206 GTI MEC	£ 340.00
<b>RENAULT</b>		
FOLCLIOH	CLIO 16V HYD	£ 252.00
FOLCLIOM	CLIO 16V MEC	£ 340.00

PART NO.	DESCRIPTION	PRICE
<b>ROVER</b>		
FOLKH	K SERIES HYD	£ 252.00
FOLKM	K SERIES MEC	£ 340.00
FOLKV6H	K SERIES V6 HYD	£ 378.00
FOLTH	T SERIES HYD	£ 252.00
FOLTM	T SERIES MEC	£ 340.00
FOLV8	ROVER V8 HYD	£ 137.00
FOLV8M	ROVER V8 MEC	£ 147.00
<b>TRIUMPH</b>		
FOLT	1.2/1.3/1.5 4 CYL	£ 55.00
FOLT6	2.0/2.5 6 CYL	£ 82.00
<b>VAG</b>		
FOLAUD5	AUDI 5 CYL 10V HYD	£ 158.00
FOLVWH	1.3/1.4/1.6/1.8/2.0 HYD	£ 126.00
FOLVW16H	16V HYD	£ 252.00
FOLVW16M	16V MEC	£ 340.00
<b>VAUXHALL</b>		
FOLOP	1.6/1.9/2.0 CIH MEC	£ 95.00
FOLAST	ASTRA 1.3/1.8 FWD	£ 105.00
FOLASTM	ASTRA FWD WITH ADJ HOLES	£ 117.00
FOLAST16H	ASTRA 2.0 16V HYD	£ 252.00
FOLAST16M	ASTRA 2.0 16V MEC	£ 340.00
FOLCOR	CORSA/TIGRA 1.4/1.6 16V HYD	£ 252.00
FOLCORM	CORSA/TIGRA 1.4/1.6 16V MEC	£ 340.00
<b>VOLVO</b>		
FOLVB18	B18	£ 63.00

# VERNIER PULLEYS

PART NO.	DESCRIPTION	MATERIAL	PRICE
<b>BMC</b>			
PULSMIN	A SERIES DUPLEX KIT	STEEL	£95.00
PULDMIN	A SERIES DUPLEX KIT	ALLOY	£105.00
PULSB	B SERIES DUPLEX KIT	STEEL	£95.00
PULSBS	B SERIES CAM SPROCKET	STEEL	£84.00
<b>FIAT</b>			
PULSUNO	UNO TURBO/PUNTO/GT	ALLOY	£105.00
PULDX19	X19/128 1300/1500 SOHC	ALLOY	£105.00
PULDFTC	PR 1.6/1.8/2.0 TWIN CAM	ALLOY	£189.00
PULDFIRE	FIAT FIRE	ALLOY	£108.00
<b>FORD</b>			
PULDOHC	OHC 1.6.2.0 PINTO	ALLOY	£86.00
PULDCVH	CVH 1.3/1.6	ALLOY	£86.00
PULSXF	XFLOW DUPLEX KIT	STEEL	£90.00
PULDCOS	PR COSWORTH 16V	ALLOY	£172.00
PULDZETA	PR ZETEC 16V	ALLOY	£172.00
PULSDUR	PR DURATEC 16V	STEEL	£105.00
PULDFOC	PR FOCUS 16V	ALLOY	£177.00
PULDPUM	PUMA 1.7 16V EXH ONLY	ALLOY	£105.00
PULDST170	FOCUS ST170 EXH ONLY	ALLOY	£105.00
<b>HONDA</b>			
PULDVTEC	PR VTEC 1.6 16V	ALLOY	£189.00
<b>JAGUAR</b>			
PULSJAG	SET JAG V6	STEEL	£415.00
<b>HYUNDAI</b>			
PULDHYN	HYUNDAI ACCENT	ALLOY	£105.00
<b>MINI</b>			
PULDMITS	PR MITSUBISHI EVO 4/5/6/7/8	ALLOY	191.00
PULDMITS9	MITSUBISHI EVO 9 EXH ONLY	ALLOY	115.00
<b>NISSAN</b>			
PULSSR20	PAIR PULSAR GTIR	STEEL	189.00

\*\* - These pulleys do not have sensor pick-ups, therefore are only recommended for vehicles with an ecu, triggered from elsewhere

# PIPER CAMS

PART NO.	DESCRIPTION	MATERIAL	PRICE
<b>PEUGEOT</b>			
PULDVTR	SAXO VTR	ALLOY	£ 105.00
PULDVTS	PR SAXO VTS 16V	ALLOY	£ 189.00
PULDMI16	PRMI16	ALLOY	£ 189.00
PULD205	106 1.4 & 205 1.3/1.6/1.9 gti	ALLOY	£ 105.00
PULD306TD	306 1.9 TURBO DIESEL	ALLOY	£ 105.00
PULDXSI	2.0 8V Xsi	ALLOY	£ 105.00
PULDGT16**	PR 306 GTI6 16V	ALLOY	£ 189.00
PULD206	PR 206 GTI	ALLOY	£ 189.00
<b>PORSCHE</b>			
PULDPOR	PORSCHE 924	ALLOY	£ 105.00
<b>RENAULT</b>			
PULSR5	REN 5 GT TURBO	STEEL	£ 105.00
PULDCLIO	PR CLIO 16V	ALLOY	£ 189.00
<b>ROVER</b>			
PULSV8	V8 DUPLEX KIT	STEEL	£ 110.00
PULDK	PR K SERIES	ALLOY	£ 189.00
PULDT	PR T SERIES	ALLOY	£ 189.00
PULDKV6	PR K-SERIES V6 (REAR ONLY)	ALLOY	£ 189.00
<b>TOYOTA</b>			
PULD3SG	PR TOYOTA 3SGE/3SGTE	ALLOY	£ 189.00
<b>VAG</b>			
PULDAUD	AUDI 4 CYL 8V/ 5CYL 10V	ALLOY	£ 105.00
PULDGTI	GOLF 1.6/1.8/2.0 & G60/ AUDI 80	ALLOY	£ 105.00
PULDV16V	GOLF 16V EXTERNAL PULLEY	ALLOY	£ 105.00
PULSV16V	GOLF 16V INTERNAL SPROCKET	STEEL	£ 61.00
PULDV20V	VAG 20V EXTERNAL PULLEY	ALLOY	£ 105.00
<b>VAUXHALL</b>			
PULSOP	1.6/1./2.0 C.I.H DUPLEX KIT	STEEL	£ 126.00
PULDA13	1.3 ASTRA / NOVA	ALLOY	£ 99.00
PULDGTE	1.4/1.6 GTE (ROUND TOOTH)	ALLOY	£ 99.00
PULDA18	1.6/2.0 ASTRA/ CAVALIER	ALLOY	£ 99.00
PULDA20	PR C20 XE 2.0 16V UP TO '93	ALLOY	£ 178.00
PULDA20B	PR C20 XE 2.0 16V '93 ON - LOW NOISE	ALLOY	£ 178.00
PULDCOR**	PR CORSA 16V	ALLOY	£ 178.00

# 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	
<b>AUSTIN</b>												
VDSAHE6	HEALEY 3000				DOUBLE	286 lb	18.80 mm	33.00 mm	39.00 mm	21.92 mm	£ 126.00	
<b>BMC</b>												
VDSMIN2	A SERIES				DOUBLE	223 lb	16.00 mm	29.10 mm	35.00 mm	22.02 mm	£ 42.00	
VDSMINR	A SERIES FULL RACE				DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 84.00	
VSSB	B SERIES				SINGLE	240 lb	21.80 mm	30.00 mm	38.00 mm	23.21 mm	£ 42.00	
VDSB2	B SERIES				DOUBLE	228 lb	18.60 mm	33.20 mm	38.00 mm	23.78 mm	£ 44.00	
<b>CITROEN / PEUGEOT</b>												
VSSVTR	SAXO VTR (ROLLER TYPE)				SINGLE	233 lb	20.00mm	28.00mm	37.50 mm	24.80 mm	£ 53.00	
VSSVTR2	SAXO VTR (NON - ROLLER TYPE)				SINGLE	276 lb	20.10mm	28.30mm	40.74 mm	25.01 mm	£ 53.00	
VDSVTS	SAXO VTS 16V	KIT	SC18	YES	DOUBLE	259 lb	13.50mm	25.10mm	37.20 mm	20.46 mm	£ 252.00	
VSSP13	PEUGEOT 1360cc				SINGLE	240 lb	21.80 mm	30.00 mm	38.50 mm	23.21 mm	£ 52.00	
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	£ 168.00	
VDSP306	PEUGEOT 306 GTI 6	KIT	SC14		DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 231.00	
VDSMI16	PEUGEOT MI 16	KIT	SC26		DOUBLE	275 lb	15.60 mm	28.50 mm	37.00 mm	22.27 mm	£ 252.00	
VSSP206A	PEUGEOT 206 GTI - SUIT HYD LIFTERS	KIT	SC27		SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 163.00	
VSSP206B	PEUGEOT 206 GTI - SUIT MEC LIFTERS	KIT	SC28		SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 163.00	
<b>FIAT</b>												
VDSFTC	TWIN CAM 8V				DOUBLE	278 lb	18.05 mm	31.65 mm	37.10 mm	20.30 mm	£ 84.00	
VDSPUN	PUNTO GT TURBO				DOUBLE	278 lb	18.05 mm	31.65 mm	37.10 mm	20.30 mm	£ 84.00	
<b>FORD</b>												
VSSF	XFLOW				SINGLE	246 lb	20.10 mm	27.90 mm	34.00 mm	21.94 mm	£ 42.00	
VDSF2	XFLOW	KIT	SC9	YES	DOUBLE	264 lb	18.35 mm	31.70 mm	32.10 mm	20.00 mm	£ 74.00	
VDSFR	XFLOW RACE	KIT	SC9		DOUBLE	278 lb	18.05 mm	31.65 mm	36.83 mm	20.30 mm	£ 89.00	
VDSFBPR	XFLOW RACE				DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 84.00	
VSSOHC	OHC				SINGLE	240 lb	22.30 mm	30.50 mm	36.80 mm	22.26 mm	£ 58.00	
VDSOHCRCR	OHC RACE				DOUBLE	276 lb	18.05 mm	31.65 mm	37.50 mm	20.30 mm	£ 84.00	
VSSCVH	CVH	KIT		YES	YES	SINGLE	275 lb	23.3 mm	32.00 mm	37.10 mm	23.06 mm	£ 74.00
VDSCVH2	CVH	KIT	SC34	YES	YES	DOUBLE	290 lb	18.35 mm	32.45 mm	37.10 mm	25.00 mm	£ 142.00
VSSV6	V6 3L ESSEX				SINGLE	232 lb	23.95 mm	32.45 mm	38.85 mm	23.16 mm	£ 63.00	
VSSV6G	V6 2.8 COLOGNE				SINGLE	200 lb	25.20 mm	33.90 mm	40.00 mm	25.88 mm	£ 63.00	
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	£ 110.00	
VDSCOS	COSWORTH 16V				DOUBLE	312 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 163.00	
VSSDUR	DURATEC	KIT	SC20B		SINGLE	242 lb	18.08 mm	25.6 mm	38.00 mm	23.50 mm	£ 163.00	
VDSDUR	DURATEC	KIT	SC22	YES	YES	DOUBLE	297 lb	15.50 mm	28.50 mm	38.00 mm	22.27 mm	£ 304.00
VSSFOC16	FOCUS 1.6 16V	KIT	SC24		SINGLE	225 lb	16.00 mm	22.74 mm	38.00 mm	23.00 mm	£ 163.00	
VSSZETA34	FOCUS 2.0 16V	KIT	SC11		SINGLE	171lb	18.00 mm	25.00 mm	34.00 mm	24.00 mm	£ 163.00	
VSSST170	FOCUS ST170	KIT	SC37		SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 163.00	
VSSRS2	RS2000 16v				SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 110.00	

# 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
<b>HONDA</b>											
VDSVTEC	VTEC 1.6 16V				DOUBLE	263 lb	16.70 mm	29.10 mm	34.00 mm	19.98 mm	£ 163.00
<b>MITSUBISHI</b>											
VSSMITS	EVO	KIT	SC21		SINGLE	276 lb	20.10 mm	28.30 mm	41.00 mm	25.01mm	£ 189.00
<b>RENAULT</b>											
VSSR5	5 GT TURBO				SINGLE	162 lb	21.70 mm	29.10 mm	34.00 mm	22.03 mm	£ 53.00
VDSMEG	MEGANE / CLIO 16V	KIT	SC29		DOUBLE	301 lb	16.00 mm	30.50 mm	38.50 mm	22.26 mm	£ 199.00
<b>ROVER</b>											
VSSV8	ROVER V8				SINGLE	246lb	22.25 mm	30.75 mm	40.40 mm	25.29 mm	£ 110.00
VTSV8	ROVER V8				TRIPLE	282 lb	16.30 mm	31.05 mm	38.00 mm	21.59 mm	£ 158.00
VSSK	K SERIES 16V				SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 110.00
VDSK	K SERIES 16V				DOUBLE	258 lb	13.50 mm	25.10 mm	37.20 mm	20.46 mm	£ 152.00
VSSK	K SERIES V6 24V				SINGLE	242 lb	18.08 mm	25.60 mm	37.20 mm	23.50 mm	£ 165.00
VDSKV6	K SERIES V6 24V				DOUBLE	258 lb	13.50mm	25.10mm	37.20 mm	20.46 mm	£ 228.00
<b>TOYOTA</b>											
VSS3SG	TOYOTA 2.0 16V 3SGE & 3SGTE				SINGLE	197 lb	20.60 mm	27.70 mm	32.50 mm	18.64 mm	£ 110.00
VDS3SG	TOYOTA 2.0 16V 3SGE & 3SGTE				DOUBLE	280 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 163.00
<b>TRIUMPH</b>											
VSSTR4	1500 SPITFIRE				SINGLE	246 lb	20.10 mm	27.90 mm	35.00 mm	21.94 mm	£ 42.00
VSSTR6	TR6				SINGLE	246 lb	20.10 mm	27.90 mm	35.00 mm	21.94 mm	£ 63.00
VDSTR6	TR6				DOUBLE	277 lb	20.19 mm	29.10 mm	35.00 mm	22.02 mm	£ 95.00
<b>VAUXHALL</b>											
VSSAST13	ASTRA / NOVA 1.3				SINGLE	197 lb	20.60 mm	27.70 mm	32.50 mm	18.64 mm	£ 58.00
VSSAST18	ASTRA / CAV 1.6 / 1.8				SINGLE	160 lb	25.00 mm	33.20 mm	38.00 mm	23.78 mm	£ 58.00
VSSAST16V	ASTRA 16V				SINGLE	246 lb	20.10 mm	27.90 mm	34.00 mm	21.94 mm	£ 110.00
VDSAST16V	ASTRA 2.0 16V	KIT	SC17		DOUBLE	267 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 231.00
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	£ 84.00
VDSCOR	CORSA 16V	KIT	SC16		DOUBLE	267 lb	15.20 mm	27.70 mm	34.00 mm	18.64 mm	£ 231.00
<b>VOLVO</b>											
VDSB18	VOLVO B18	KIT	SC40	YES	DOUBLE	312 lb	15.20 mm	27.70 mm	33.00 mm	18.64 mm	£ 147.00

**COMPETITION CAM BELTS**

<b>PART NO.</b>		<b>PRICE</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>CITROEN / PEUGEOT</b>					
TBP10	AX 1.0/1.1	205 1.0/1.1/1.3 RALLY	£ 26.00		
TBP11	AX 1.4 '88-91	205/309 1.4 '85-93	£ 26.00		
TBP13	BX GTI 1.6/1.9 to 01-'92	205 / 309 GTI 1.6/1.9 to 01-'92	£ 26.00		
TBP15	BX 1.9 MI16 '87-93	309/405 1.9 MI16	£ 39.00		
TBP11	SAXO 1.4	106/306 1.4 '91-04 >Mtr 3666765	£ 26.00		
TBP12	SAXO 1.6 VTR '96-04	106 Xsi 1.4 & RALLYE/306 1.6 & 106	£ 26.00		
TBP39	SAXO VTS 1.6 16V	106 GTI 16V	£ 39.00		
TBP14	BX/XANTIA 1.6/1.8/2.0 8V	205/309/306 GTI 1.6/1.9 '92-99	£ 26.00		
TBP27	XANTIA 2.0 16V	306 2.0 MI16 - (150HP)	£ 39.00		
TBP28	XANTIA 2.0 16V (132HP)	605 2.0 16V	£ 39.00		
TBP11	XSARA 1.4	206/307 1.4 '98-on >Mtr 3666765	£ 26.00		
TBP39	XSARA 1.6 16V	1007 1.6 16V	£ 39.00		
TBP28	XSARA 1.8/2.0 16V	306/406 1.8/2.0 16V (132hp)	£ 39.00		
TBP28	XSARA 2.0 16V (163HP)	306 2.0 16V GTI6 (163HP)	£ 39.00		
TBP39	C2/C3/C4 1.6 16V	206/207/307 1.6 16V	£ 39.00		
<b>FIAT</b>					
TBP1	FIAT UNO 1.1/1.3/1.3 TURBO & SOHC 1.5		£ 26.00		
TBP2	FIAT UNO 1.4/1.4 TURBO & TIPO 1.3		£ 26.00		
TBP3	FIAT 2.0 TWIN CAM		£ 26.00		
<b>FORD</b>					
TBP4	FORD CVH 1.4/1.6		£ 26.00		
TBP5	FORD CVH 1.1/1.3		£ 26.00		
TBP6	FORD SOHC 1.6 NOT SIERRA 1.6 E.MAX		£ 26.00		
TBP7	FORD SOHC 1.8/2.0		£ 26.00		
TBP8	FORD ZETEC 16V 1.6/1.8/2.0 - SILVER TOP		£ 39.00		
TBP30	FORD FOCUS/MONDEO 1.8/2.0 16v - BLACK TOP		£ 39.00		
TBP30	FORD FOCUS 2.0 16V ST170		£ 39.00		
TBP31	FORD FIESTA/FOCUS/PUMA 1.25/1.4/1.6 16v		£ 39.00		
TBP37	BDA		£ 39.00		
<b>HONDA</b>					
TBP32	HONDA 1.6 VTEC B16 '89-98		£ 39.00		
<b>RENAULT</b>					
TBP16	RENAULT 19 / CLIO 16V 1.8		£ 39.00		
TBP16	RENAULT CLIO 2.0 WILLIAMS / SPIDER 2.0 16V		£ 39.00		
<b>ROVER</b>					
TBP17	ROVER K SERIES 1.4/1.6/1.8 16V		£ 39.00		
TBP33	ROVER K SERIES 1.8 16V 'Nov 98-on		£ 39.00		
<b>SUBARU</b>					
TBP26	SUBARU IMPREZA 2.0 TURBO UP TO '98		£ 68.00		
TBP26	SUBARU LEGACY 2.0 TURBO 16V		£ 68.00		
<b>VAUXHALL</b>					
TBP18	VAUX 1.3 1980 ON		£ 26.00		
TBP19	VAUX 1.4/1.6 8 VALVE UP TO 91 (104 TOOTH)		£ 26.00		
TBP20	VAUX 1.2/1.4/1.6 8 VALVE '91-00 (111 TOOTH)		£ 26.00		
TBP21	VAUX ASTRA/CAV 1.6/1.8/2.0 J SERIES		£ 26.00		
TBP42	VAUX CORSA B / TIGRA 1.4/1.6 16V '93 -00		£ 39.00		
TBP42	VAUX CORSA / VECTRA B 1.8 16V X18XE		£ 39.00		
TBP22	VAUX ASTRA/CAV 2.0 16V UP TO 1992		£ 39.00		
TBP35	VAUX ASTRA/CAV 2.0 16V INC TURBO '93-97		£ 39.00		
TBP36	VAUX ECOTEC 2.0 16V (136HP)		£ 39.00		
<b>VAG</b>					
TBP23	AUDI 80/100 1.6/1.8 & COUPE 2.0 (115HP)		£ 26.00		
TBP24	AUDI 80 2.0 & CABRIOLET 2.0 (115HP)		£ 26.00		
TBP25	AUDI 80 2.0 16V & CABRIOLET/COUPE 2.0 16V		£ 39.00		
TBP25	AUDI A6 2.0 16V '94-97		£ 39.00		
TBP40	AUDI A4/A6 1.8/1.8T 20V 10/94 - 09/01		£ 47.00		
TBP41	AUDI TT 1.8/1.8T 20V '98 - 07/06		£ 47.00		
TBP23	SEAT IBIZA/TOLEDO/CORDOBA 1.6/1.8 '93-99		£ 26.00		
TBP25	SEAT IBIZA/TOLEDO/CORDOBA 16V (136HP)		£ 39.00		
TBP29	SEAT IBIZA/TOLEDO/CORDOBA 16V (150HP)		£ 39.00		
TBP41	SEAT IBIZA 1.8T 20V INC CUPRA 2004 ON		£ 47.00		
TBP23	VW GOLF/PASSAT 1.5, 1.6 & 1.8 GTI		£ 26.00		
TBP24	VW GOLF 2.0 8V (115HP)		£ 26.00		
TBP25	VW GOLF/SCIROCCO/JETTA 1.8 16V		£ 39.00		
TBP29	VW GOLF 2.0 16V 93-96		£ 39.00		
TBP41	VW GOLF 1.8/1.8T 20V 10/97 - 09/03		£ 47.00		
TBP40	VW PASSAT 1.8/1.8T 20V 11/96 - 08/00		£ 47.00		
<b>MITSUBISHI</b>					
TBP34	MITSUBISHI ECLIPSE/GALANT 2.0 16V		£ 39.00		
TBP34	MITSUBISHI EVO 4 / 5 / 6 / 7		£ 39.00		

# VALVE SPRING CAPS - STEEL

**PIPER CAMS**

PART NO	DESCRIPTION	PRICE	PART NO	DESCRIPTION	PRICE
<b>BMC</b>			<b>RENAULT</b>		
SC1	A SERIES (Suit VDSMINR springs)	£ 42.00	SC29	MEGANE / CLIO (Suit VDSMEG springs)	£ 72.00
<b>CITROEN</b>			<b>ROVER</b>		
SC18	SAXO VTS 16v (Suit VDSVTS springs)	£ 71.00	SC3	K SERIES (Suit VSSK & VDSK springs)	£ 72.00
SC30	SAXO VTR (Suit VSSVTR springs)	£ 42.00	SC19	K SERIES (As SC3 except to suit hyd buckets)	£ 72.00
<b>FORD</b>			SC23	KV6 (Suit VSSKV6 & VDSKV6 springs)	£ 107.00
SC7	COSWORTH (Suit VDSCOS springs)	£ 71.00	SC25	KV6 (As SC23 except to suit hyd buckets)	£ 107.00
SC33	COSWORTH LONG VALVE	£ 71.00	<b>VAUXHALL</b>		
SC34	CVH (Suit VDSCVH2 springs)	£ 42.00	SC16	CORSA 16v (Suit VDSCOR springs)	£ 72.00
SC8A	OHC (Suit VSSOHC springs)	£ 42.00	SC17	ASTRA 2.0 16v (Suit VDSAST16V springs)	£ 72.00
SC8B	OHC (Suit VDSOHCRC springs)	£ 42.00	<b>VOLVO</b>		
SC9	XFLOW (Suit VDSF2 / VDSFR springs)	£ 42.00	SC40	B18 (Suit VDSB18 springs)	£ 42.00
SC10	XFLOW (Suit VDSFBPR springs)	£ 42.00	<b>TOP HAT SHIMS</b>		
SC11	ZETEC 16v (Suit VSSZETA / VSSZETA34 springs)	£ 71.00	SHIM63	SHIM TO SUIT 6 MM STEM VALVE 3 MM THICK	£ 4.20
SC32**	ZETEC 16v (Suit VSSZETA / VSSZETA34 springs)	£ 71.00	SHIM64	SHIM TO SUIT 6 MM STEM VALVE 4 MM THICK	£ 4.20
SC20B	DURATEC 16v (Suit VSSDUR springs)	£ 71.00	SHIM65	SHIM TO SUIT 6 MM STEM VALVE 5 MM THICK	£ 4.20
SC22	DURATEC 16v (Suit VSSDUR springs)	£ 71.00	SHIM66	SHIM TO SUIT 6 MM STEM VALVE 6 MM THICK	£ 4.20
SC24	FOCUS 1.6 16v (Suit VSSFOC springs)	£ 71.00	SHIM73	SHIM TO SUIT 7 MM STEM VALVE 3 MM THICK	£ 4.20
SC37	FOCUS ST170 (Suit VSSST170 springs)	£ 71.00	SHIM74	SHIM TO SUIT 7 MM STEM VALVE 4 MM THICK	£ 4.20
<b>HONDA</b>			SHIM75	SHIM TO SUIT 7 MM STEM VALVE 5 MM THICK	£ 4.20
SC12	VTEC (Suit VDSVTEC springs)	£ 71.00	SHIM76	SHIM TO SUIT 7 MM STEM VALVE 6 MM THICK	£ 4.20
<b>MITSUBISHI</b>			SHIM83	SHIM TO SUIT 8 MM STEM VALVE 3 MM THICK	£ 4.20
SC21	EVO 1-9 (Suit VSSMITS springs)	£ 71.00	SHIM84	SHIM TO SUIT 8 MM STEM VALVE 4 MM THICK	£ 4.20
<b>NISSAN</b>			SHIM85	SHIM TO SUIT 8 MM STEM VALVE 5 MM THICK	£ 4.20
SC36	MICRA 16V (Suit std springs)	£ 71.00	SHIM86	SHIM TO SUIT 8 MM STEM VALVE 6 MM THICK	£ 4.20
<b>PEUGEOT</b>			<b>BISCUIT SHIMS</b>		
SC14	306 16v (Suit VDSP306 springs)	£ 71.00	SHIM11535	SHIM DIAMETER 11.50MM X 3.50MM THICK	£ 4.50
SC26	MI16 (Suit VDSMI16 springs)	£ 71.00	SHIM11540	SHIM DIAMETER 11.50MM X 4.00MM THICK	£ 4.50
SC27	206 GTI (As SC28 expect to suit hyd buckets)	£ 71.00	SHIM11545	SHIM DIAMETER 11.50MM X 4.50MM THICK	£ 4.50
SC28	206 GTI (Suit VSSP206 springs)	£ 71.00	SHIM11550	SHIM DIAMETER 11.50MM X 5.00MM THICK	£ 4.50
SC35	205 GTI (Suit VDSP16 springs)	£ 42.00			

# CAMSHAFTS HONDA

Valve lifts quoted assume a rocker ratio of 1:1

## PIPER CAMS

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	with clearance Inl Exh	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	£190 Reppo
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	£190 Reppo
PH7	CBR600 RR 2003 -	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	£190 Reppo
PH14	CBR600 RR 2003 -	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	£190 Reppo
PH10	CBR600 RR 2003 -	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	£190 Reppo
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	.006" / .15mm .008" / .20mm	£190 Reppo
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	£190 Reppo
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	£575 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	£190 Reppo £575 Blank
PH9	CBR1000 RR 2004 ON	TRACK DAY / RACE	250 deg	242 deg	.363" 9.22mm	.346" 9.22mm	.355" 9.01mm	.336" 8.53mm	23 - 47 45 - 17	102 deg	104 deg	.127" 3.22mm	.105" 2.67mm	.008" / .20mm .010" / .25mm	£190 Reppo £575 Blank
PH11	CBR1000 RR 2004 ON	TRACK DAY / RACE	255 deg	248 deg	.363" 9.22mm	.346" 9.22mm	.355" 9.01mm	.336" 8.53mm	26 - 50 48 - 20	102 deg	104 deg	.131" 3.33mm	.111" 2.83mm	.008" / .20mm .010" / .25mm	£190 Reppo £575 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	£190 Reppo

## 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	£190 Reppo
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	£190 Reppo
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	£190 Reppo
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	£190 Reppo
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	£575 Billet

# CAMSHAFTS KAWASAKI (CONT)

**PIPER CAMS**

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	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	£190 Reppo
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	£190 Reppo
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	£190 Reppo
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	£190 Reppo
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	£190 Reppo

## 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	£190 Reppo
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	£190 Reppo £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	£190 Reppo £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	£190 Reppo £610 Blank*
PS22	GSX R600 K6-7 SUPERSPORT	252 deg	235 deg	.338" 8.81mm	.314" 7.96mm	.330" 8.38mm	.304" 7.72mm	21 - 51 47 - 8.6	105 deg	109 deg	.117" 2.97mm	.067" 1.70mm	.008" / .20mm .010" / .25mm	£190 Reppo £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	£190 Reppo
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	£190 Reppo £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	£190 Reppo £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	£190 Reppo £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	£190 Reppo £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	£190 Reppo £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	£190 Reppo £610 Blank*

# CAMSHAFTS SUZUKI (CONT)

Valve lifts quoted assume a rocker ratio of 1:1

\*blank includes sprockets

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	with clearance	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	£190 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	£190 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	£190 Repro £610 Blank*
PS23	GSX R1000 K7 - 8 RACE	257 deg	256 deg	.417" 10.59mm	.362" 9.19mm	.409" 10.39mm	.352" 8.94mm	24 - 54 58 - 18	105 deg	110 deg	.099" 3.40mm	.126" 2.59mm	.008" / .20mm .010" / .25mm	£610 Blank*
PS24	GSX R1000 K7 - 8 RACE	257 deg	256 deg	.425" 10.59mm	.372" 9.19mm	.417" 10.39mm	.362" 8.94mm	24 - 54 58 - 18	105 deg	110 deg	.126" 3.20mm	.099" 2.51mm	.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	£190 Repro £610 Blank*
PS21	GSX R1300 1999 - GRASS / KIT CAR SPEC	241 deg	224 deg	.367" 9.32mm	.320" 8.13mm	.359" 9.11mm	.310" 7.83mm	16 - 44 38 - 5.9	104 deg	106 deg	.105" 2.67mm	0.060" 1.52mm	.008" / .20mm .010" / .25mm	£190 Repro £610 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	£610 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	£190 Repro £610 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	£190 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	£190 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	£190 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	£190 Repro
PY10	YZF R6 INJ 2006 - 9 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	£190 Repro £575 Blank
PY12	YZF R6 INJ 2006 - 9 SUPERSPORT	256 deg	242 deg	.347" 8.79mm	.315" 8.00mm	.339" 8.61mm	.305" 7.75mm	18 - 58 51 - 11	110 deg	110 deg	.100" 2.54mm	.066" 1.68mm	.008" / .20mm .010" / .25mm	£190 Repro £575 Blank
PY1 B	FZS 1000 FAZER - 2003 STREET	242 deg	234 deg	.316" 8.03mm	.316" 8.03mm	.310" 7.87mm	.308" 7.82mm	13 - 49 43 - 11	108 deg	106 deg	.081" 2.06mm	.078" 1.98mm	.006" / .15mm .008" / .20mm	£575 Billet
PY1 A / B / C	YZF R1 1998 - 2002 STREET	242 deg	234 deg	.316" 8.03mm	.316" 8.03mm	.310" 7.87mm	.308" 7.82mm	13 - 49 43 - 11	108 deg	106 deg	.081" 2.06mm	.078" 1.98mm	.006" / .15mm .008" / .20mm	£575 Billet
PY2 A / B / C	YZF R1 1998 - 2002 TRACK DAY / RACE	252 deg	242 deg	.340" 8.64mm	.330" 8.38mm	.334" 8.48mm	.322" 8.18mm	24 - 48 51 - 11	102 deg	110 deg	.117" 2.97mm	.078" 1.98mm	.006" / .15mm .008" / .20mm	£575 Billet
PY3C	YZF R1 2003 RACE	252 deg	248 deg	.340" 8.64mm	.339" 8.61mm	.334" 8.48mm	.330" 8.38mm	24 - 48 54 - 14	102 deg	110 deg	.117" 2.97mm	.090" 2.29mm	.006" / .15mm .008" / .20mm	£575 Billet
PY4C	YZF R1 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 .008" / .20mm	£575 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	£575 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	£575 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	£575 Billet
PY11	YZF R1 2007 MUST USE KIT SPRING RACE	261 deg	257 deg	.390" 9.90mm	.355" 9.01mm	.385" 9.77mm	.348" 8.83mm	21 - 61 59 - 19	110 deg	110 deg	.106" 2.70mm	.098" 2.49mm	.005" / .127mm .007" / .178mm	£575 Billet
PY14	YZF R1 2008 BSB SPEC RACE	255 deg	250 deg	.375" 9.52mm	.328" 8.38mm	.375" 9.37mm	.338" 8.33mm	22 - 54 53 - 17	106 deg	108 deg	.110" 2.79mm	.094" 2.39mm	.006" / .15mm .010" / .254mm	£575 Billet
PY16	YZF R1 2009 STD V/S & PISTON RACE	259 deg	255 deg	.375" 9.52mm	.339" 9.09mm	.404" 10.26mm	.350" 8.89mm	25 - 55 53 - 23	105 deg	105 deg	.121" 3.07mm	.109" 2.77mm	.006" / .15mm .008" / .20mm	£575 Billet
PY17	YZF R1 2009 MUST USE KIT SPRING RACE	255 deg	250 deg	.410" 10.41mm	.358" 8.38mm	.404" 10.26mm	.350" 8.89mm	25 - 55 50 - 20	105 deg	105 deg	.141" 3.58mm	.113" 2.87mm	.006" / .15mm .008" / .20mm	£575 Billet

**PIPER CAMS****MOTORCYCLE ADJUSTABLE SPROCKETS**

PART NO.	DESCRIPTION	MATERIAL	PRICE
<b>HONDA</b>			
PULMH6F23	CBR600 F2 / 3 1991 - 1998 SPROCKET	STEEL	£ 65.00
PULMH6F4	CBR600 F4 1999 - 2002 SPROCKET	STEEL	£ 65.00
PULMH6RR	CBR600 RR 2003 On SPROCKET	STEEL	£ 65.00
PULMH900	CBR900 RR 1992 - 1999 SPROCKET	STEEL	£ 65.00
PULMH929	CBR900 RR 2000 On SPROCKET	STEEL	£ 65.00
PULMH1100	CBR1100BB 1996 On SPROCKET	STEEL	£ 65.00

**KAWASAKI**

PULMK6R	ZX6 R F - K 1994 On SPROCKET KIT	STEEL	£ 140.00
PULMK7R	ZX7 R 1991 - 2003 SPROCKET KIT	STEEL	£ 140.00
PULMK9R47	ZX9 R B1-4 1994 - 1998 SPROCKET KIT	STEEL	£ 140.00
PULMK9R8	ZX9 R C - E 1998 On SPROCKET KIT	STEEL	£ 140.00

**SUZUKI**

PULMS750	GSX R600 / R750 1998 - 1999 SPROCKET KIT	STEEL	£ 140.00
PULMS7502	GSX R750 K 2000 On SPROCKET KIT	STEEL	£ 140.00
PULMS1300	GSX R1300 1999 On SPROCKET KIT	STEEL	£ 140.00

**YAMAHA**

PULMYR1	YZF R1 1998-03 SPROCKET	STEEL	£ 65.00
PULMYR6	YZF R6 1999-05 SPROCKET	STEEL	£ 65.00
PULMYR62	YZFR6 2006-2008	STEEL	£ 65.00

**MECHANICAL CAM CHAIN ADJUSTER**

PART NO.	DESCRIPTION	MATERIAL	PRICE
<b>SUZUKI</b>			
ST750Y2K*	GSXR600K1-3 GSXR750K1-3 GSXR1000K1-2	ALLOY	£ 49.00
ST1000-3*	GSXR600K4-8 GSXR750K4-8 GSXR1000K3-8	ALLOY	£ 49.00
ST1300GX*	GSXR1300 HAYABUSA -07	ALLOY	£ 49.00
ST1300-08*	GSXR1300 HAYABUSA 2008	ALLOY	£ 49.00
* INCLUDES NEW GASKET			

**YAMAHA**

YTR6	YZFR6 2006-	ALLOY	£ 49.00
YTR1	YZFR1 2004 - 2006	ALLOY	£ 49.00
YT1000	YZFR6 1999 - 2005 YZFR1 1998 - 2003	ALLOY	£ 49.00

**NEW MODELS ALWAYS BEING ADDED****MOTORCYCLE SHIMS**

**7.50MM DIAMETER FROM 1.50MM TO 3.50MM THICKNESS AVAILABLE**  
**9.50MM DIAMETER FROM 1.50MM TO 3.50MM THICKNESS AVAILABLE**  
 PRICES FROM £4.75 PER SHIM