

RACELINE[®]

Performance Engineered



Ford Zetec Tuning

Price List

Tel: 01483-811978/810812 Fax: 01483-810801

www.raceline.co.uk



ZETEC COMPONENT KITS - CARBS

The following Zetec engine kits are designed for customers who have sourced their own Ford Zetec engine and have a pair of 40/45DCOE carburettors. Performance figures are based on the 2000cc engine, however, the kits also apply to 1600cc and 1800cc engines.

Customers wanting to build new engines can purchase 1800cc and 2000cc Ford Zetec service units starting at £1150.00 plus delivery. By adding one of the following kits the customer will then have the necessary parts to complete the engine.

Contents	Raceline 160 Component Kit	Raceline 190 Component Kit	Raceline 210 Component Kit
Raceline cast wet sump pan kit	~	~	~
Wet sump gasket and caphead bolts	~	~	~
Raceline aluminium inlet manifold (carb spec)	~	~	~
Inlet manifold mounting kit	~	~	~
Carburettor mounting kit	~	~	~
Raceline water rail and fitting kit	~	~	~
Thermostat housing and fitting kit	~	~	~
Raceline alternator mounting kit (less alternator)	~	~	~
Throttle potentiometer and fitting kit	~	~	~
Lightweight flywheel fitted with ring gear and balanced	~	~	~
Clutch kit 8 ½ inch inc plate and cover	~	~	~
ECU module (3D ignition only)	~	~	~
Wiring loom (3D ignition only)	~	~	~
Raceline modified cylinder head – fast road		~	
Camshaft kit – RL200		~	
Connecting rod bolt set – heavy duty		~	~
Raceline modified cylinder head – Stage 2			~
Camshaft kit – RL220			~
Heavy duty valve spring set			~
Valve spring base set			~
Valve spring retainer set			~
Large hydraulic cam follower set – 32mm			~
TOTAL PRICE (EX VAT)	£1550.00	£2350.00	£2950.00

Calibration specifications for Weber 40 and 45DCOE carburettors available on request.

Two and three-stage dry sump options available for each engine kit. Price details available on request.

Please see the final Zetec Component page for installation components including exhausts, water hose kits and engine mounts etc.

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ZETEC COMPONENT KITS - INJECTION

The following kits are designed for customers who want to build up their new or used engines with Raceline components together with throttle body fuel injection. The kits are suited to new car applications where SVA compliance is important, or for those seeking the added performance and torque offered by injection.

Contents	Raceline 180 Component Kit	Raceline 200 Component Kit	Raceline 220 Component Kit
Raceline cast wet sump pan kit	~	~	~
Wet sump gasket and caphead bolts	~	~	~
Raceline aluminium inlet manifold (injection spec)	~	~	~
Inlet manifold mounting kit	~	~	~
Injection mounting kit	~	~	~
Raceline water rail and fitting kit	~	~	~
Thermostat housing and fitting kit	~	~	~
Raceline alternator mounting kit (less alternator)	~	~	~
Throttle potentiometer and fitting kit	~	~	~
Balanced lightweight flywheel fitted with ring gear	~	~	~
Heavy duty 8 ½ inch clutch kit inc plate/cover	~	~	~
ECU module (fuel and ignition)	~	~	~
Wiring loom (fuel and ignition)	~	~	~
Throttle body – 45mm (pair)	~	~	~
Ram pipe x 4	~	~	~
Cosworth injector x 4	~	~	~
Fuel pressure regulator	~	~	~
Barometric pressure sender	~	~	~
Air temperature sender	~	~	~
Water temperature sender	~	~	~
Raceline modified cylinder head – fast road		~	
Camshaft kit – RL200		~	
Connecting rod bolt set – heavy duty		~	~
Raceline modified cylinder head – Stage 2			~
Camshaft kit – RL220			~
Heavy duty valve spring set			~
Valve spring base set			~
Valve spring retainer set			~
Large hydraulic cam follower set – 32mm			~
TOTAL PRICE (EX VAT)	£2850.00	£3550.00	£4250.00

Two and three-stage dry sump options available for each engine kit. Price details available on request.

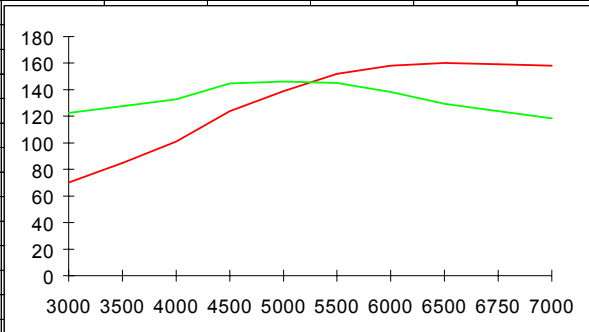
Please see the final Zetec Component page for installation components including exhausts, water hose kits and engine mounts etc.

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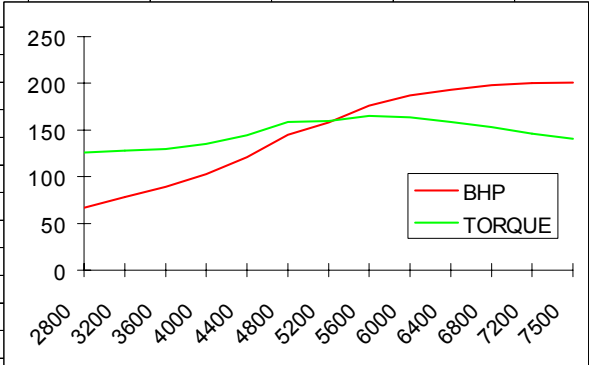
ZETEC-R 160BHP - CARBS

ZETEC-R 160										
CAPACITY	2000CC		INDUCT		WEBER 45DCOE					
CAMSHAFTS	STANDARD		TIMING		STANDARD					
OIL / SUMP	WET		FILTER		WEBER					
COMPRESSION	10.0:1									
	RPM	BHP	TORQUE							
	3000	70	123							
	3500	85	128							
	4000	101	133							
	4500	124	145							
	5000	139	146							
	5500	152	145							
	6000	158	138							
	6500	160	129							
	6750	159	124							
	7000	158	119							
FORD ZETEC-R 2000CC - 160										



ZETEC-R 200BHP - INJECTION

CAPACITY	2000CC		INDUCT		T/B INJECT					
CAMSHAFTS	STAGE 1		HEAD		FAST ROAD					
OIL / SUMP	WET		FILTER		DELLORTO RAM/ NO FILTERS					
COMPRESSION	11.0:1									
	RPM	BHP	TORQUE							
	2800	67	126							
	3200	78	128							
	3600	89	130							
	4000	103	135							
	4400	121	144							
	4800	145	159							
	5200	158	160							
	5600	176	165							
	6000	187	164							
	6400	193	158							
	6800	198	153							
	7200	200	146							
	7500	201	141							





ZETEC-R ENGINES - CARBS

Contents	Raceline Zetec-R 160 Engine	Raceline Zetec-R 190 Engine	Raceline Zetec-R 210 Engine
Ford Zetec engine prepared and assembled by Raceline with the components listed	~	~	~
Large capacity breather box	~	~	~
Raceline cast wet sump pan kit	~	~	~
Cam cover powder coated with Raceline cam cover insert	~	~	~
Raceline aluminium inlet manifold (carb spec)	~	~	~
Inlet manifold mounting kit	~	~	~
Carburettor mounting kit	~	~	~
Raceline water rail and fitting kit	~	~	~
Thermostat housing and fitting kit	~	~	~
Balanced lightweight flywheel fitted with ring gear	~	~	~
Clutch kit 8 ½ inch inc plate and cover	~	~	
Heavy duty 8 ½ inch clutch kit inc plate/cover			~
Raceline modified cylinder head – fast road		~	
Camshaft kit – RL200		~	
Connecting rod bolt set – heavy duty		~	~
Raceline modified cylinder head – Stage 2			~
Cylinder head spark plug mod			~
Camshaft kit – RL220			~
Heavy duty valve spring set			~
Valve spring base set			~
Valve spring retainer set			~
Large hydraulic cam follower set – 32mm			~
TOTAL PRICE (EX VAT)	£3250.00	£4200.00	£4950.00
ECU module (3D ignition only)			£350.00
Wiring loom (3D ignition only)			£125.00
45DCOE Weber carburettors (pair)			£475.00
Throttle linkage – underslung Weber single cable			£55.00
Throttle potentiometer and fitting kit			£36.60
Raceline alternator mounting kit (less alternator)			£135.00
Vernier pulley (pair)			£145.00

Raceline Zetec-R cam cover with carbon badge available at an additional £100.00.

Calibration specifications for Weber 40 and 45DCOE carburettors available on request.

Two and three-stage dry sump options available for each engine kit. Price details available on request.

Please see the final Zetec Component page for installation components including exhausts, water hose kits and engine mounts etc.

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ZETEC-R ENGINES - INJECTION

Contents	Raceline Zetec-R 180 Engine	Raceline Zetec-R 200 Engine	Raceline Zetec-R 220 Engine	Raceline Zetec-R 235 Engine	Raceline Zetec-R 250 Engine
Ford Zetec engine prepared and assembled by Raceline with the components listed	~	~	~	~	~
Large capacity breather box	~	~	~	~	~
Carbon badged cam cover with Raceline cam cover insert	~	~	~	~	~
Raceline aluminium inlet manifold (injection spec)	~	~	~	~	~
Inlet manifold mounting kit	~	~	~	~	~
Injection mounting kit	~	~	~	~	~
Raceline water rail and fitting kit	~	~	~	~	~
Thermostat housing and fitting kit	~	~	~	~	~
Lightweight flywheel fitted with ring gear and balanced (8 ½ inch or 7 ¼ inch clutch)	~	~	~	~	~
Clutch kit 8 ½ inch inc plate and cover	~	~			
Heavy duty 8 ½ inch clutch kit inc plate/cover			~		
Raceline modified cylinder head – fast road	~	~			
Camshaft kit – RL200		~			
Connecting rod bolt set – heavy duty		~	~	~	~
Raceline modified cylinder head – Stage 2			~	~	~
Pocket piston x 4			~		
Cylinder head spark plug mod			~	~	~
Camshaft kit – RL220			~		
Heavy duty valve spring set			~	~	~
Valve spring base set			~	~	~
Valve spring retainer set			~	~	~
Large hydraulic cam follower set – 32mm			~		
Large solid cam follower set – 32mm				~	~
Shims to suit 32mm solid cam follower set				~	~
Raceline modified cylinder head – Stage 3 with bronze valve guides and large valves				~	~
Large valve x 16				~	~
Bronze guide x 16				~	~
Camshaft kit – RL235				~	~
Forged piston set 85mm				~	~
Steel H-beam connecting rod set				~	~
Steel crankshaft					~
TOTAL PRICE (EX VAT) – WET SUMP	£3250.00	£4200.00	£4950.00	£6550.00	£7700.00
TOTAL PRICE (EX VAT) – DRY SUMP	£3750.00	£4700.00	£5450.00	£7000.00	£8250.00
Injection component prices on the following page					

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ZETEC-R ENGINE COMPONENTS

	Qty	Price / each
Throttle body kit inc 2 x throttle body, fuel rail and throttle pot mounting kit (42 or 45mm)	1	£375.00
Injection stud	8	£1.25
Throttle potentiometer	1	£37.50
Cosworth injector – blue	4	£65.00
Cosworth injector – green	4	£65.00
Ram pipe – 45mm	4	£13.00
Ram pipe – 90mm	4	£17.00
K & N air filter – Caterham style	2	£45.00
Foam air filter – JPE type – Lumenition throttle bodies	1	£65.00
Throttle linkage – top mounted single cable	1	£70.00
Adjustable fuel pressure regulator	1	£42.50
ECU module – (fuel & ignition)	1	£495.00
Wiring loom – (fuel & ignition)	1	£210.00
Barometric pressure sender	1	£60.00
Air temperature sender	1	£29.00
Water temperature sender	1	£20.00
Zetec cam cover – standard	1	£57.78
Oil filler cap – standard	1	£2.95
RACELINE cam cover – modified with carbon	1	£150.00
RACELINE spun aluminium filler cap	1	£35.00
RACELINE logo cam cover insert (inc pedestals)	1	£48.00
Cylinder head assembly – 1800cc or 2000cc	1	£497.00
RACELINE 190 / 200 cylinder head/manifold work	1	£475.00
RACELINE 220 cylinder head/manifold work	1	£450.00
Cylinder head large follower machining	1	£275.00
Cylinder head spark plug modification	1	£75.00
RACELINE 250 cylinder head/manifold work – full race	1	£1100.00
Cylinder head gasket – 1800cc or 2000cc	1	£26.56
Dowel – cylinder head locating	2	£0.75
Bolt – cylinder head securing	10	£2.22
Stud – exhaust manifold	9	£0.96
Nut – Exhaust manifold fixing	9	£0.14
Socket cap screw – inlet manifold fixing	9	£0.24
Inlet valve (standard – 32mm) – 1800cc or 2000cc	8	£4.04
Exhaust valve (standard – 28mm) – 1800cc or 2000cc	8	£8.96
Valve spring – 130ps 1800cc or 2000cc	16	£0.76
Valve spring retainer	8	£0.48
Valve stem seal – standard	8	£0.95
RACELINE inlet valve large – 33.5mm	8	£17.00
RACELINE exhaust valve large – 30mm	8	£17.00
RACELINE heavy duty valve spring – set	1	£120.00
RACELINE valve stem seal	16	£0.96
RACELINE bronze guides	16	£9.50
Split cotter	32	£0.54
Camshaft – inlet (standard) – 130ps 1800cc or 2000cc	1	£165.00
Camshaft – exhaust (standard) – 130ps 1800cc or 2000cc	1	£165.00
RACELINE RL200 camshaft kit (pair) – fast road	1	£345.00
RACELINE RL220 camshaft kit	1	£375.00
RACELINE RL 235 camshaft kit	1	£375.00

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ZETEC-R ENGINE COMPONENTS

	Qty	Price / each
Camshaft oil seal	2	£2.28
Cam follower – standard	16	£10.92
Large hydraulic cam follower – 32mm	16	£14.95
Cam pulley – standard	2	£21.50
RACELINE adjustable vernier pulley kit – pair	1	£140.00
Cam pulley bolt	2	£1.19
Cam belt	1	£25.36
Cam belt tensioner pulley	1	£25.20
Cam belt tensioner pulley bolt	1	£1.19
Cam belt idler (large) & bolt	1	£14.20
Cam belt idler (small) & bolt	1	£14.20
Cylinder block assembly – 1800cc and 2000cc	1	£497.00
Machining to modify block to dry sump spec	1	£75.00
RACELINE steel H-beam connecting rod – set	1	£750.00
Cosworth forged pistons (11.5:1 or 12.5:1) – set	1	£600.00
RACELINE steel billet crankshaft	1	£1250.00
Machining to pocket pistons to suit Stage 2 (220 spec) camshafts – 4 pistons	1	£90.00
Full engine balance	1	£100.00
Dowel, block to bell housing	2	£0.75
Oil gallery plug	2	£0.66
Spigot bearing	1	£3.50
Main bearings – standard size – set	1	£17.50
Rear crankshaft oil seal cover	1	£28.26
Front crankshaft oil seal	1	£3.54
Gasket – front crankshaft oil seal cover	1	£0.75
Vibration crankshaft damper	1	£21.80
Bolt – vibration damper	1	£0.78
Timing belt drive gear	1	£22.22
Timing belt drive gear retainer	1	£0.74
Piston ring set – standard – set	1	£44.48
Bolt – connecting rod	8	£0.98
RACELINE connecting rod bolts – race spec	8	£7.50
Connecting rod bearings – standard – set	1	£25.00
RACELINE lightweight flywheel – 7 ½ inch or 8 ½ inch clutch	1	£125.00
Pre-engaged ring gear for all flywheels	1	£50.00
RACELINE fitting & balance – for above	1	£47.50
Bolt – flywheel bolt	6	£0.06
Dowel – flywheel to clutch cover	3	£0.84
Clutch cover 8 ½ inch	1	£40.00
Clutch plate 8 ½ inch	1	£37.50
AP clutch cover 8 ½ inch – heavy duty	1	£145.00
AP clutch plate 8 ½ inch – heavy duty	1	£60.00
Bolt – clutch cover	6	£0.14
Water pump – 1800cc and gasket	1	£44.00
Water pump gasket	1	£2.00
Water pump pulley poly V	1	£9.97
RACELINE lightweight water pump pulley	1	£39.00
Water pump pulley poly V securing screw	1	£0.16
Drive belt – water pump/crank/alternator (poly V)	1	£15.00
RACELINE water rail	1	£135.00
Water rail fitting kit	1	£4.95
Thermostat housing, thermostat and gasket	1	£29.95

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ZETEC-R ENGINE COMPONENTS

	Qty	Price / each
Screws – thermostat securing	1	£0.75
Pressure cap	1	£5.10
Fan switch (thermostat housing)	1	£11.00
Temperature sender (dashboard)	1	£13.28
Temperature sender (ECU)	1	£10.88
Elbow 90° (water rail – heater only)	1	£2.95
Taper plug (water rail – no heater)	1	£0.75
Twin coil pack including mounting bracket	1	£44.70
RACELINE coil pack lightweight mounting bracket	1	£23.00
RACELINE spark plug lead kit	1	£22.00
Spark plug (NGK)	4	£5.95
Flywheel ignition pick up, housing and bolt	1	£21.75
RACELINE inlet manifold – carburettor or injection	1	95.00
Screw – inlet manifold securing	10	£0.45
Gasket – inlet manifold (heat sink gasket)	1	£15.92
Weber carburettors – 40 and 45DCOE	2	£235.00
Weber trumpet (ram pipe) – 40DCOE	1	£16.00
Weber trumpet (ram pipe) – 45DCOE	1	£16.00
K & N air filter – Caterham style	1	£37.50
Weber underslung throttle linkage – single cable	1	£55.00
Weber DCOE to inlet manifold mounting studs	8	£1.00
Weber misab plates – carburettor to manifold	2	£6.20
Weber nyloc nuts – carburettor to manifold securing	8	£0.12
Weber rubber cups	8	£0.70
Weber cup washers	16	£0.40
Weber choke	4	£14.30
Weber main jet	4	£3.20
Weber air corrector jet	4	£1.85
Weber idle jet	4	£2.50
Weber pump jet	4	£3.85
Weber spill valve	2	£3.35
Weber emulsion tube	4	£11.25
Weber throttle potentiometer kit	1	£36.60
ECU module – (Ignition only)	1	£350.00
Wiring loom to suit above ECU	1	£95.00
Adjustable fuel pressure valve	1	£28.70
Oil filter	1	£2.95
Oil filter threaded bush	1	£2.16
Oil pump 1800cc (external oil pressure release)	1	£94.78
Oil pump 2000cc	1	£94.78
Oil pump bolts – short	4	£0.30
Oil pump bolts – long	2	£0.35
Front cover gasket	1	£0.67
Front cover oil seal	1	£2.39
Sump gasket	1	£10.32
Sump bolt (set)	1	£4.00
Gasket set – complete	1	£67.50
Gasket set – head only – except head gasket	1	£32.00
Gasket set – bottom end only – except head gasket	1	£18.75

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ZETEC-R ENGINE COMPONENTS

	Qty	Price / each
RACELINE wet sump kit – cast aluminium high clearance sump with race specification baffling, cooling fins, alternator mounting bosses, integral oil pick up with removable finger filter. Holds the 5 litre oil capacity required for the Zetec. The ultimate wet sump assembly	1	£359.00
RACELINE dry sump kit – three-stage pump (twin scavenge/single pressure) includes Raceline cast dry sump pan, three-stage pump, mounting plate, special Formula Ford type oil filter housing and all brackets and fittings. Tailor made for the Caterham / Westfield	1	£750.00
RACELINE dry sump kit – two-stage pump (twin scavenge) includes Raceline cast dry sump pan, two-stage pump (uses OE engine oil pump for pressure)	1	£495.00
Oil temperature sender	1	£35.00
Oil cooler kit	1	£125.00
Dry sump tank – easy clean type	1	£145.00
Dry sump braided oil line kit	1	£125.00
Starter motor – pre-engaged Crossflow type	1	£82.50
Geared starter motor – 1.5kw (high power suitable for injection engines)	1	£275.00
Alternator (available for left or right-hand mounting)	1	£127.22
RACELINE alternator mounting kit – mounts on the exhaust side on the sump pan. Suitable for Caterham Seven applications	1	£135.00
RACELINE alternator mounting kit – mounts on the induction side below the carbs/injection. Available to suit Mondeo or Focus Zetec engines)	1	£135.00
Alternator pulley (standard)	1	£11.00
RACELINE lightweight alternator pulley	1	£32.00
Alternator belt – various lengths available	1	£11.50
Engine mounting kit – inc 2 x powder coated engine mounts, bolts and washers	1	£95.00
Stainless steel exhaust system – 4-into-1 tuned length system designed on the dyno for maximum torque and power – side exit system includes clamp and rear muffler mount	1	£625.00
Stainless steel exhaust flange	1	£65.00
Stainless steel exhaust primary set	1	£295.50
Stainless steel collector	1	£135.00
Stainless steel silencer	1	£255.00
Water hose kit inc three silicone purpose manufactured hoses (blue) – alloy black anodised water pipe inc heater take off – all clamps and fittings	1	£150.00
Water hose kit inc one black silicone purpose made hose and two standard hoses - alloy black anodised water pipe inc heater take off – all clamps and fitting	1	£115.00
Engine breather kit inc breather bottle, all hoses, elbows and fittings	1	£29.50
Caterham injection fuel tank kit inc tank, fuel filter, hoses, filler neck, cap, banjoes, washers and pump	1	£375.00
Aluminium bell housing – with integral 30mm spacer	1	£235.00
Aluminium bell housing – aluminium version of the standard bell housing	1	£195.00

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GEARBOX & DIFFERENTIAL

	Qty	Price / each
Sierra Clubman 5-speed s/c c/r gearbox (with exchange box or + £125.00 surcharge)	1	£895.00
Sierra Clubman gearkit	1	£531.89
Sierra Clubman gearbox – helical cut gears	1	£985.00
Sierra Clubman gearkit – helical cut gears	1	£775.00
Sierra heavy duty gearbox (with exchange box or +£125.00 surcharge)	1	£1095.00
Sierra heavy duty gearkit	1	£760.00
Sierra dog engagement gearbox (with exchange box or +£125.00 surcharge)	1	£2150.00
Sierra gearbox alloy main case	1	£270.00
Steel baulk rings Sierra/Rocket/Bullet	1	£60.00
Heavy duty operating block	1	£60.00
Rocket Clubman 4-speed s/c c/r gearbox (with exchange box or + £75.00 surcharge)	1	£650.00
Rocket Clubman gearkit	1	£400.00
Rocket heavy duty gearbox (with exchange box or + £75.00 surcharge)	1	£965.00
Rocket heavy duty gearkit	1	£670.00
Rocket heavy duty dog engagement gearbox (with exchange box or + £75.00 surcharge)	1	£1250.00
Rocket Range Change gearbox (with exchange box or + £75.00 surcharge)	1	£1700.00
Rocket Range Change dog engagement gearbox (w/exchange box or + £75.00 surcharge)	1	£1950.00
Rocket alloy main case	1	£270.00
Bullet 4-speed s/c c/r gearbox (with exchange box or + £100.00 surcharge)	1	£960.00
Bullet gearkit	1	£600.00
Bullet dog engagement gearbox (with exchange box or + £75.00 surcharge)	1	POA
Escort Sport/Mexico 4-speed s/c c/r gearbox (with exchange box or + £75.00 surcharge)	1	£700.00
Escort Sport/Mexico gearkit	1	£500.00
Sierra 7inch differential 4.1:1 crown wheel and pinion	1	£485.00
Sierra 7inch differential 4.44:1 crown wheel and pinion	1	£485.00
Sierra 7inch differential 4.7:1 crown wheel and pinion	1	£485.00
Sierra 7inch differential 2.9:1 & 3.14:1 crown wheel and pinion	1	POA
Sierra 7inch differential 3.62:1 & 3.92:1 crown wheel and pinion	1	POA
Sierra 7inch limited slip differential unit – Quaife	1	£475.00
Sierra 7inch limited slip differential unit – ZF	1	£650.00
Differential Rebuild Services		
Vapour blast differential case and diff carriers	1	£75.00
Plating diff flange, tabs, bolts etc	1	£15.00
Crown wheel bolt	10	£0.36
Pinion head bearing	1	£25.00
Pinion tail bearing	1	£22.00
Differential bearing	2	£16.00
Pinion oil seal	1	£8.15
Differential oil seal	2	£5.24
Differential 'O' ring	2	£0.90
Compressible spacer	1	£2.67
Pinion nut	1	£2.95
Flange nut	1	£1.75
Breather tube	1	£0.99
Rebuild labour – differential complete	1	£125.00

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Introducing...

RACELINE®

Raceline Cars Limited was founded in 1994 by Chris Smith and former Formula One engineer Peter McEwen, primarily to develop the recently-introduced Ford Zetec engine for club motorsport and fast road use. Although the company has diversified since, a range of specialist components and tuning packages for the Zetec remains the company's main stock in trade.

For various reasons - possibly to do with the lack of any real motorsport pedigree - the Zetec engine seems to have been overlooked by many enthusiasts. Raceline Cars Limited was among the first companies to spot the potential of the engine, and we remain convinced it has much to offer. In developing our range of tuning packages and special components for the engine, we have found it to be extremely robust, durable, and efficient. It also responds extremely well to even modest tuning. In common with most modern engines, it is remarkably oil tight, a particular attraction to those still using the ageing Ford Crossflow. For all of those reasons, then, the Ford Zetec is the ideal basis for a modern high performance engine. The fact that it is manufactured in large numbers and is therefore available at modest cost, either new or second-hand, is another significant point in its favour.

Certainly Raceline's early faith has been fully vindicated as the engine is increasingly seen as a viable alternative to rival powerplants from Rover, Vauxhall and others. During 1998, Ford introduced the World Rally Championship version of the new Ford Focus (and signed Colin McRae to drive it) powered by a specially-developed turbocharged version of the Zetec, so giving the engine still more kudos and credibility....



As stated, Raceline has developed a range of tuning packages for the Zetec engine. For obvious reasons these are based around the 2-litre version of the Zetec, but if for any reason you should wish to use a 1.6-litre or 1.8-litre version for a particular application, we are always happy to discuss your requirements on an individual basis. An otherwise standard 2-litre engine, running on twin sidedraught Weber 40DCOE carburetors (where permitted) will produce an easy 160bhp. The Raceline 160 Sport engine gives you just that, either in the form of a brand new factory-built Ford unit fitted with the relevant Raceline components, or as a kit of parts to enable you to source your own 2-litre engine and fit the special Raceline components. This is a perfect upgrade for any ageing Crossflow-powered Caterham Seven, and naturally Raceline offers a full fitting kit for installing a Zetec in the Seven, including an F1-style exhaust system that could truly be described as a work of art. Not cheap, but if you take pride in your car, as most enthusiasts do, it's the perfect finishing touch.

Appearances are important, and from the outset, Raceline's intention has always been to mimic as nearly as possible the look of the classic Ford performance engines, notably the BDA. That is why we designed our own cast alloy water rail for the Zetec, which hugs the left-hand side of the cam cover and places the thermostat in the BDA position, near the front of the engine. This greatly simplifies and tidies up the plumbing of the cooling system when the engine is installed in-line, in a Caterham Seven or similar, enhancing the under-bonnet presentation, and further reinforces the likeness to the classic BDA, still so revered by many Ford enthusiasts. Indeed, although the Zetec is often touted as a replacement for the venerable Crossflow, in size, weight, and especially power output, it should more correctly perhaps be considered as a replacement for the BDA. Please bear this in mind when comparing prices.



The Raceline cast alloy wet sump pan and fitting kit is another product of which we are especially proud. Sure, you can save some money by hacking a standard Ford cast sump pan about and rewelding it to suit. But leaving aside the rather makeshift appearance of a cut-and-shut cast sump pan, bear in mind the standard Zetec engine was designed by Ford for transverse installation in a saloon car with inherently modest cornering capabilities. Obviously the baffling can be modified to suit the in-line installation, and to counteract the greater 'g' forces generated by a fast-cornering Caterham Seven or similar vehicle, but can this ever be as satisfactory as a true purpose-designed unit? So, although on the face of it the Raceline wet sump pan may seem an extravagance, even the most cursory inspection should convince you that it's worth it. It is, as they say, a proper job....



The wet sump pan has recently been modified so it can be used in any inline Zetec installation, with any Ford gearbox, and with the starter motor on either side to suit. Also available is our alternator mounting kit, which bolts to the sump unit and locates the alternator low on the left-hand side of the engine, designed to fit the Caterham chassis but suitable for other installations too. These special parts come as part of Raceline's tuning packages, but they may also be purchased individually if required.

At the other end of the scale to the budget 160 Sport unit, a full Raceline-built engine with some cylinder head modifications and special cams will produce a tractable and reliable 225bhp on fuel injection. Raceline offers a range of options in between. For those with a hankering for even more power, torque, and speed, Raceline offers a range of special parts, like steel billet crankshafts, steel H-beam connecting rods and forged pistons, not forgetting our superb dry sump kit, allowing higher rpm and hence even greater power outputs. Again, please feel free to contact us to discuss your requirements.

This is but a brief overview of the Raceline range of specialists parts for the Ford Zetec engine. For full details and prices, please consult the full Raceline catalogue, available on request.



Raceline - if you want the cheapest, you'd best look elsewhere: but if you want the best, you know where to come....

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