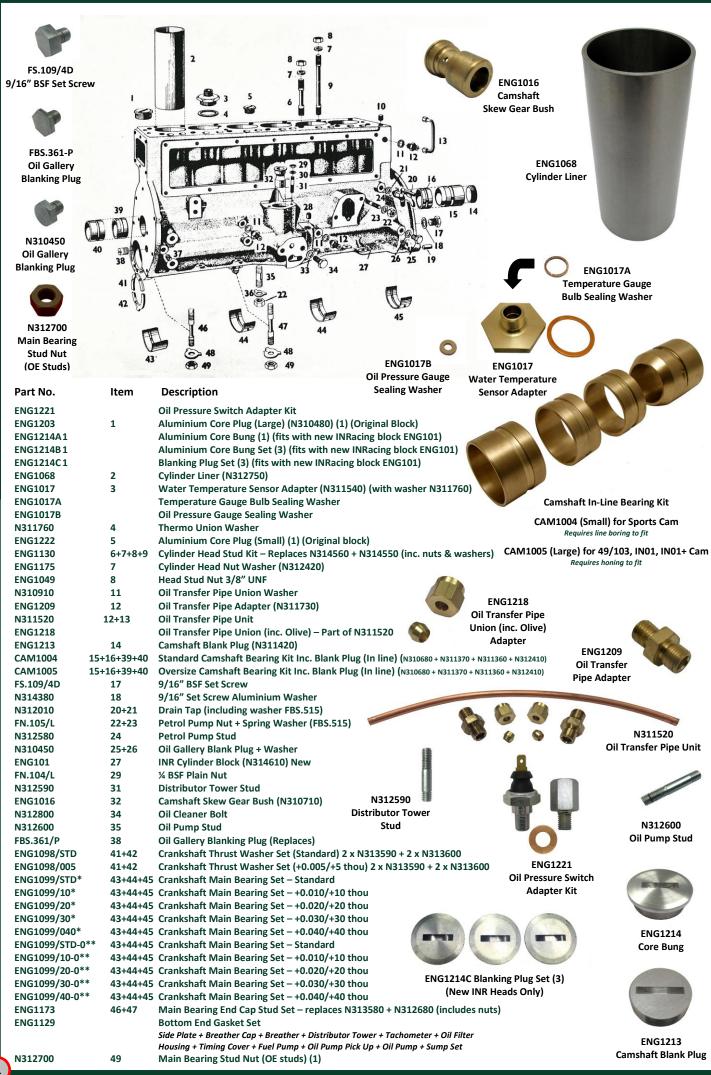


Bristol 2 Litre Bottom End Parts List

- Cylinder Block & Main Bearings
- Crankshaft
- Camshaft Covers & Sump

Engine Type 85, 100, 110



Cylinder Block Group & Main Bearings







Main Bearing Set

Thrust Washer Set

Big End Bearing Set

ENG1099/STD	Standard	ENG1098/STD	Standard	ENG1100/STD	Standard		
ENG1099/10	+0.010	ENG1098/005	+0.005	ENG1100/010	+0.010		
ENG1099/20	+0.020	ENG1098/010	+0.010	ENG1100/020	+0.020		
ENG1099/30	+0.030			ENG1100/030	+0.030		
ENG1099/40	+0.040	Please Note: The tang on the main bearings	ENG1100/040	+0.040			
the original bearings and the block needs modifying to suit.							

When ordering bearings, please can you give us as much detail of the existing bearings as possible. For example, the width of bearing. Are the con-rods offset or non-offset, and are they splash fed or pressure fed.



New blocks are supplied with ENG1173 Main bearing studs, nuts and bearing caps, Plus cam bearings fitted and machined to suit your choice of camshaft.

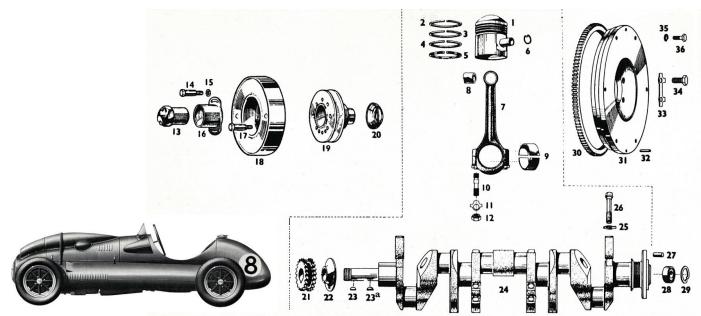
ENG101 New INR Cylinder Block (N314610)



Main Bearing End Cap Stud Set Including nuts and washers



ENG1130 Cylinder Head Stud Kit Including nuts and washers



			66 PLSs
Part No.	Item No.	Description	
ENG3478C	1+2+3+4+5	Cosworth Forged Piston Set 66mm (6) (fit std rods)	
ENG3480C	1+2+3+4+5	Cosworth Forged Piston Set 66.5mm (6) (fit std rods) 9.5:1	
ENG3479C	1+2+3+4+5	Cosworth Forged Piston Set 67mm (6) (fit std rods)	
ENG3488	2+3+4+5	Cosworth Piston Ring Set 66mm (6)	
ENG3490	2+3+4+5	Cosworth Piston Ring Set 66.5mm (6)	
ENG3489	2+3+4+5	Cosworth Piston Ring Set 67mm (6)	
ENG3481	1+2+3+4+5	INRacing Forged Racing Piston Set 66.5mm (6)	-
ENG3482	1+2+3+4+5	INRacing Forged Racing Piston Set 66mm (6)	
ENG3483	2+3+4+5	INRacing Piston Ring Set 66mm (6)	
ENG3484	2+3+4+5	INRacing Piston Ring Set 66.5mm (6)	
ENG3481A	1+2+3+4+5	Arias Forged Piston Set 66.5mm (6)	TIM1003A
CW15	6	Gudgeon Pin Circlip (1) (Wossner Pistons)	Crankshaft Pulley (
F014/A	7	INRacing Con Rod Set (6) - Oversize (long rod for short piston)	Large nose
ENG3480W	7	INRacing Con Rod Set (6) - (Standard type) - UNDER DEVELOPM	ENT -
CA033A	7	Arrow Con Rod Set - Racing (6) - fits CA032 Racing Crankshaft	
CA033	7	INRacing Racing Con Rod Set 6) - fits CA032 Crankshaft	
CA033S	1+2+3+4+5+7	INRacing Racing Piston & Con-Rod Set (6) - fits CA032 Crankshaft	
CA034S	1+2+3+4+5+7+24	INRacing Racing Crankshaft (CA032) + Forged Piston (6) + Con-Ro	od Set (6) (CA033S)
ENG1013	8	Con Rod Small End Bearing Set (6)	
ENG1100/ST		Crankshaft Big End Bearing Set – Standard	
ENG1100/10	9	Crankshaft Big End Bearing Set – +0.010	
ENG1100/20	9	Crankshaft Big End Bearing Set – +0.020	
ENG1100		Engine Bearing Set (Main + Big End + Thrust) (Specify sizes when	ordering)
CA035	10	Con Rod Bolt Set (12) (Fit with CA033 Connecting Rods)	
ENG1024	13	Crankshaft Nut – Large nose (Replaces N333690)	Damp
ENG1024A	13	Crankshaft Nut – Small nose (Replaces N333470)	
N333430	14	Damper Bolt (Non-Tapered)	
N333420	17	Damper Bolt (Tapered)	
ENG1211	18	Damper Rubber (N333460)	
TIM1005	18	Fluid Damper	
TIM1006 TIM1006A	18 18+19	ATI Cronkshoft Bullou Set ATI Cronkshoft Domnor Bullou Nute	Laura
TIM1006A	18+19	ATI Crankshaft Pulley Set – ATI Crankshaft Damper, Pulley, Nuts ATI Crankshaft Pulley Set – ATI Crankshaft Damper, Pulley, Nuts	•
TIM10063	18+19	Fluid Crankshaft Pulley Set – Fluid Crankshaft Damper, Pulley, N	
TIM1004A	18+19	Fluid Crankshaft Pulley Set – Fluid Crankshaft Damper, Pulley, N	•
TIM1003A	18+19	INR Harmonic Crankshaft Pulley – Crankshaft Damper, Pulley, N	
TIM1003	19	Crankshaft Pulley Only – Large nose (fits original damper and flu	
TIM1003A	19	Crankshaft Pulley Only – Small nose (fits original damper and flu	
TIM10061	19	ATI Crankshaft Pulley Only – Large Nose	na admper,
TIM10062	19	ATI Crankshaft Pulley Only – Small Nose	
TIM1001	21	Crankshaft Gear – Small nose (like N332630)	TIM1006A
TIM1001/INF		Crankshaft Gear – Large nose	TIM1006S
ENG1012	22	Crankshaft Thrust Plate (Front Washer)	
N332600	23	Woodruff Key – Pulley – 100C Engine	
N332620	23a	Woodruff Key – Timing Gear – 100C Engine	
N332520	23 + 23a	Woodruff Key – Timing Gear & Pulley – 100D Engine	
CA032	24	Racing Crankshaft	
ENG1190-2	28	Spigot Bearing – Rubber Shielded (N330770)	
N330780	29	Spigot Bearing Clip (N330780)	
ENG1179	30	Flywheel Ring Gear (OE Design N331990)	
ENG1189A		Billet Steel Flywheel / Ring Gear Assembly	
		Replaces N331590 + N331990 (requires starter motor ENG1169A)
N332060	34	Flywheel Bolt (1) 3/8" BSF	
ENG1219	34	Flywheel Bolt Set 3/8" BSF (6) (N332060)	TIM1004A C
ENG1219R	34	Flywheel Bolt Set (6) ARP (CA032 Race Crank)	TIM1005A C



TIM1003S Crankshaft Pulley Only **Crankshaft Pulley Only** Small nose



TIM1006 **ATI Harmonic Damper** Dampens out torsional vibration through the crank



TIM1006A Crankshaft Pulley & ATi Damper (Large Nose) TIM1006S Crankshaft Pulley & ATi Damper (Small Nose)



TIM1004A Crankshaft Pulley & Fluid Damper (Large Nose) TIM1005A Crankshaft Pulley & Fluid Damper (Small Nose)

Crankshaft



CA032 Racing Crankshaft for Bristol 2 litre Engine Types 100 C, D & D2 96mm Stroke.

Conrods required CA033 (6)

CA033 INR Racing Connecting Rod Set (6) (CA032 Crank) CA033S Racing Piston & Con-Rod Set (6) (CA032 Crank) CA034S Racing Crankshaft + Forged Piston + Con-Rod Set (6) (CA032 Crank)



Piston Ring Set

Available for all sizes of INRacing and Cosworth pistons 66mm, 66.5mm

and 67mm



CW15 Gudgeon Pin Circlip (1)



Woodruff Keys



INRacing Forged Racing Piston & Ring Set Fits INRacing rods

ENG3481 - 66.5mm ENG3482 - 66.00mm



Cosworth Forged Racing Piston & Ring Set Fits standard rods

ENG3478C - 66mm ENG3480C - 66.5mm 9.5:1 ENG3479C - 67mm



ENG1013 Con Rod Small End Bearing Set



CA035 Con Rod Bolt Set To fit with CA033 Con Rods



CA033 INRacing Con Rod Set

Racing Rods to fit with our Racing Pistons ENG3481 or ENG3482. Fits with our CA032 Racing Crankshaft.



ENG1219
INR Flywheel Bolt Set
For standard crank
(aircraft quality)



ENG1219R INR Flywheel Bolt Set For INRacing CA032 Racing Crank



ENG1219C Clutch Cover Bolt Set

ENG1189A Lightweight Billet Flywheel

This steel billet flywheel needs fitting with a pre-engaged starter motor.

We would recommend our ENG1169A Hi-Torque Starter Motor Conversion (Although not essential)





ENG1024 Crankshaft Nut Large Nose



ENG1012 Crankshaft Thrust Plate



TIM1001/INR Crankshaft Gear Large Nose



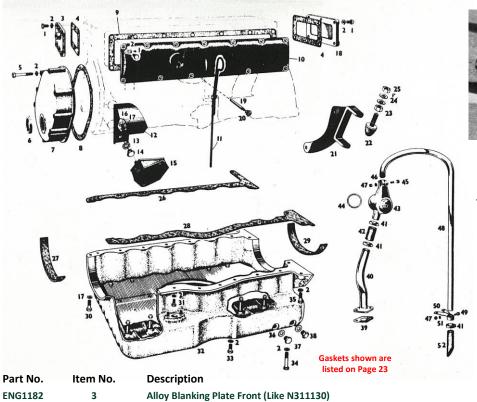
TIM1001 Crankshaft Gear Small Nose



N330780 Spigot Bearing Clip



ENG1190-2 Spigot Bearing



Magnesium Blanking Plate Front (Like N311130)

Timing Cover Seal - Small Nose (Modern type seal)

Timing Cover - Small Nose - inc. modern type seal

Timing Chain Guide (Fixed) Fits inside timing cover

Timing cover Overhaul in our workshop

Timing Chain Tensioner Kit (Spring) Pair

Timing Cover Gasket 2 Litre (N311170)

Push Rods Side Plate Gasket (N310200)

Alloy Blanking Plate Rear (Like N312370)

INR Sump with bolts - Fits new block

Sump Bung (replaces N314450)

Breather Pipe Gasket (N313320)

Engine Breather Pipe (N314280)

Magnesium Blanking Plate Rear (Like N312370)

Sump Gasket Set (N313290 + N310160 + N313280 + N312360)

Sump Plate Gasket - Magnesium Sump (Race engines)

Alloy Push Rod Cover (Like N313410) Magnesium Push Rod Cover (Like N313410)

Timing Cover Gasket 2.2 Litre

Engine Mounting (N311270)

Torque Buffer Bracket

7/16" BSF Nut

1/4" BSF Nut

Torque Buffer (N311280)

Felt Timing Cover Seal Large Nose – OE Design (N311181)

Felt Timing Cover Seal Small Nose - OE Design (N314440)

End Plate Gaskets (2) (N311140)



Bristol 403

TIM1139 **Timing Chain Tensione** Kit (Spring) Pair





Timing Chain Guide (Fixed) Mounts inside timing cover



ENG1035 **Engine Breather Pipe** (N314280)

TIM1015 **Modern Timing Cover Seal** Large Nose for TIM1208 (INRacing modified covers only)



TIM1206 **Felt Timing Cover Seal** Large Nose OE Design



TIM1216 **Modern Timing Cover Seal Small Nose** (INRacing modified covers only)



TIM1207 **Felt Timing Cover Seal** Small Nose OE Design

RAE 345





including modern type seal

ENG1183

ENG1112

TIM1206

TIM1207 TIM1015

TIM1016

TIM1208

TIM1139

TIM1193

ENG1113

ENG1113A

ENG1121

ENG1180

ENG1181

ENG1177

ENG1184

ENG1185

ENG1225

GBX1211

FN.107/L ENG1124

FNG102

ENG1025

FNG1114

FN.104/L

ENG1035

ENG1217

TIM1208-2 TIM1205

3

4

6

8

9

10

10

15

18

18

21

22

23

26+27+28+29

32

38

39

47

48

Camshaft Covers & Sump



ENG1182 (Like N311130) Blanking Plate Front - Alloy



ENG1184 (Like N312370) Blanking Plate Rear - Alloy



ENG1181



ENG1183 Blanking Plate Front - Magnesium



ENG1180

ENG1185

Blanking Plate Rear - Magnesium

