Price

Gaskets and Bearings for the Ford 1.6L Engine

Engine Gaskets for 1.6L Ford Engines					
Description	Part No.	Price			
Cylinder Head Set					
Includes head gasket, cork valve cover gasket, intake gasket, 3	piece exhaust ma	nifold			
gasket, and water outlet gasket. Also includes a set of 8 stand	ard Ford valve ster	n seals.			
Head Gasket Only, stock Ford	164-03	\$109.99			
Cork Valve Cover Gasket	164-04	\$11.99			
Reusable Silicone Valve Cover Gasket	GI-GFF-16L	\$25.99			
Water Outlet Gasket	164-05	\$3.99			
Water Pump Gasket	164-06	\$4.99			
Oil Pan Gasket with cork end seals (for cast pan)	164-07	\$18.99			
Oil Pan Gasket with rubber end seals (for steel pan)	164-34	\$42.99			
Intake Manifold Gasket	164-08	\$10.49			
Single Piece Exhaust Header Gasket by Ivey Engines	164-09	\$8.99			
Single Piece Graphite Exhaust Header Gasket					
Front Timing Chain Cover Gasket (with water pump gasket).	164-10	\$5.99			
Rear Crank Cover Gasket	164-11	\$3.99			
Fuel Pump Block	164-12	\$15.99			
Fuel Pump Gasket only (not block)	164-15	\$2.49			
Oil Pump Gasket	164-13	\$5.49			
Phenolic Carb Spacer Plate with two gaskets	164-14	\$21.99			
Carb Base Gasket only (not block)	1586-Gasket	\$3.49			
Front Crank Seal, dry PTFE type	164-20	\$32.99			
Front Crank Seal, rubber lip seal (narrow, fits all front covers)	164-19	\$24.99			
Rear Crank Seal	164-21	\$67.99			
PTFE Valve Seals, 8 pieces	164-22	\$39.99			
Standard Ford Valve Stem Seals, 8 pieces	164-24	\$19.99			
Bottom End Gasket Set	164-35	\$154.99			
Includes front cover gasket (with water pump gasket), rear co (lip seal type), rear crank seal, oil pump gasket, fuel pump blo	,				

Engine Pearings for Ford 1 61					
Engine Bearings for Ford 1.6L					
Description	Part No.	Price			
1.6L Connecting Rod Bearings					
Standard ID (crank journal OD 1.9372")	1501-Std	\$84.99			
.010" undersize ID (journal OD 1.9272")					
.020" undersize ID (journal OD 1.9172")	1501-020	\$84.99			
.030" undersize ID (journal OD 1.9072")	1501-030	\$84.99			
1.6L Main Bearings (standard OD)					
Standard ID (crank journal OD 2.1254")	1502-Std	\$99.99			
.010" undersize ID (journal OD 2.1154")	1502-010	\$119.99			
.020" undersize ID (journal OD 2.1054")	1502-020	\$119.99			
.030" undersize ID (journal OD 2.0954")	1502-030	\$119.99			
.040" undersize ID (journal OD 2.0854")	1502-040	\$119.99			
1.6L Main Bearings (+.015 OD) These special bearing have been line-bored .015" oversize to correct alignment per the main bearing bores in your block measure 2.286" (58.0	problems. Use these				
Standard ID (crank journal OD 2.1254")	1504-010/15 .	\$124.99			
1.6L Thrust Bearing Washers Sold in pairs005" ov	versize is per side (.0	10" total).			

Most of our engine bearings are manufactured by ACL. These steel-backed bearings provide excellent strength and wear in Formula Ford engines.

Specify Standard or .005" oversize thickness................. 1505-Size........\$18.99

Water Pump Drives and Tach Drives for the Ford 1.6L Engine

Water Pump Drive Belts and Pulleys for Ford 1.6L

ber end seals), and distributor O-ring.

44 tooth Water Pump Pulley, Part No 166-02-.62 (left) 30 tooth Crankshaft Pulley, Part No. 166-03 (right) and 180XL050 Drive Belt, Part No. 166-01-180

Our toothed-belt water pump pulleys feature a large setback to minimize the cantilevered load on the water pump. Combining a 44 tooth pump pulley with

a 30 tooth crank pulley will slow the pump down to 68% of crankshaft speed. This reduces cavitation at high RPM operation. Standard water pump belts are 1/2 inch wide, but some older cars used narrower 3/8 inch

wide belts.

Description (pump rpm = 68% of crank rpm)	Part No.	Price
44 tooth pump pulley for .62" dia. pump shafts	166-0262	\$134.99
30 tooth crankshaft pulley	166-03	\$199.99
180XL050 belt for above pulleys (90 teeth)	166-01-180	\$13.99
Some older Ford 1.6L's use shorter or narrower	belts:	
170XL050 (85 teeth), $\frac{1}{2}$ inch belt width	166-01-170	\$11.49
150XL037 (75 teeth), ³ / ₈ inch belt width	166-05-150	\$11.99
160XL037 (80 teeth), ³ / ₈ inch belt width	166-05-160	\$12.99
170XL037 (85 teeth), $\frac{3}{8}$ inch belt width	166-05-170	\$11.99
180XL037 (90 teeth), $\frac{3}{8}$ inch belt width	166-05-180	\$11.99

Tach Drive Parts for Ford 1.6L

When using a side mounted oil pump, the tach is usually driven from the front of the camshaft by mounting the tach drive gearbox on the front timing chain cover. The tach drive gearbox must be accurately aligned or it will fail in a very short time. One alternative is to mount the tach drive directly on the 5 port oil pump. We also carry the parts needed to convert a pump to this option. When using the front mounted pump, the tach drive is mounted on the side of the block using a special adapter (Part No. 166-22, shown here).

1.6L Miscellaneous Bearings



Tach arive mount for 5 port pump $w/1$ scavenge rotor	100-21	\$99.99
Replaces the end cover on the standard Titan 5-port oil pump mount a tach drive gearbox (not included) on the pump. Rec		
Part No. 167-11-Tach (sold separately on page 71 under Servic	e Parts).	
Replacement seal for above	166-21-Seal	\$8.99
Tach drive mount for side of block, with gear	166-22	\$199.99
Mounts in place of the side-mount oil pump. This assembly li gearbox (not included) on the side of the block, driven by the		

Technical Data for the Ford 1.6L Engine

Race Engine Specs
Main Bearing Clearance .0.002" Connecting Rod Bearing Clearance .0.0015" - 0.002" Camshaft Bearing Clearance .0.002" - 0.0023" Piston to Cylinder Wall Clearance .0.004" - 0.004" Top Ring End Gap .0.01" Crankshaft End Float .0.004" - 0.007" Wrist Pin Clearance .0.002" - 0.0003" Intake Valve Stem Clearance .0.002" Exhaust Valve Lash (hot) .0.010" Exhaust Valve Lash (hot) .0.018" Max. Intake Valve Lift @ 0" clearance .0.356" Max. Exhaust Valve Lift @ 0" clearance .0.358" Firing Order 1 - 2 - 4 - 3 Ignition Timing .38° - 40° BTDC Points Gap, Bosch .0.020" - 0.022" Points Gap, Autolite .0.024" - 0.025"

Recommended Race Engine Torque Specs						
Head Bolts	Front Cover Bolts7 lbs. ft.					
Main Cap Bolts	Rear Cover Bolts					
Rod Cap Bolts (standard)	Water Pump Bolts					
Rod Cap Bolts (competition)	Water Neck Bolts					
Flywheel Bolts	Crankshaft Pulley Bolt					
Pressure Plate Bolts (clutch cover)	Fuel Pump Bolts					
Rocker Shaft Bolts	Rocker Cover Screws					
Camshaft Bolt	Intake Manifold Bolts					
Thrust Plate Bolts	Intake Manifold Nut					
Chain Tensioner Bolts	Exhaust Manifold Bolts					
Oil Pump Bolts	Carb to Manifold Nuts					
Oil Sump Bolts	Spark Plugs					

Valve Adjusting Sequence								
Valve Order:	1 EX	2 IN	3 IN	4 EX	5 EX	6 IN	7 IN	8 EX
When this valve is depressed: Adjust this valve:		6 IN 3 IN	4 EX 5 EX		8 EX 1 EX	3 IN 6 IN	5 EX 4 EX	7 1N 2 IN