

# TAM QUICK ENGINE SPECIFICATION

specs\_toy\_4p.xlsx

Toyota 4P				
1493 C.C.				
BORE	STROKE	FIRING	MAIN	ROD
		ORDER	JOURNAL	JOURNAL
3.016	3.189	1-3-4-2	2.0473	1.8504
SPARK PLUG	SPARK PLUG	DISTRIBUTOR	IGN.TIMING	OIL CAPACITY
TYPE	GAP	GAP	IDLE SPEED	WITH FILTER
W9EP	.028-.031	.016-.020	8 deg.BTDC/550	4 U.S. qts.
TORQUE VALUES				
LOCATION	FT. LB.		LOCATION	FT. LB.
Main brg.caps	71-79		Oil pan drain plug	
Rod brg. caps	30-34		Oil pump bolt	12.2-16.6
Cyl. head bolts	74-84		Rocker arm nut	
Cam sprocket bolt			Rckr. shaft brckt.bolt	
Crank pulley bolt	30-39		Timing cover	10-14
Flywheel bolt	42-47		Spark plug	
Flywheel housing			Water outlet bolt	
Manifold bolt and nut	20-25		Water pump bolt	
Oil pan bolt	2.9-5.1		Wtr.pmp.pulley bolt	
PISTON				
Diameter	3.0141-3.0169		Cyl.bore clearance	.0011-.0019
Pin diameter	.7874-.7878			
RINGS				
Ring gap-Top	.0059-.0137		Side clearance-Top	.0011-.0027
Ring gap-2nd	.0059-.0137		Side clearance-2nd	.0009-.0025
Ring gap-Oil	.0059-.0137		Side clearance-Oil	.0009-.0027
CRANKSHAFT				
Main journal dia.	2.0467-2.0473		Rod journal dia.	1.8498-1.8504
Main run clearance			Rod run clearance	
End play			Thrust brg.thickness	.0961-.0977
CAMSHAFT				
Front journal dia.	1.8488-1.8494		Cam lift-Intake	.2496-.2536
Center journal dia.	1.8409-1.8416		Cam lift-Exhaust	.2540-.2579
Rear journal dia.	1.8331-1.8337			
VALVES				
Intake length			Exhaust length	
Intake stem dia.	.3140-.3144		Exhaust stem dia.	.3134-.3140
Intake head dia.	1.4174		Exhaust head dia.	1.1693
Intake face angle	45 deg.		Exhaust face angle	45 deg.
Intake clearance	.008 hot		Exhaust clearance	.014 hot