

ENGINE BLUEPRINTING RECORD

The following forms can be photocopied to organize your engine blueprinting project and to provide a permanent record of your engine's dimensions.

DATE: _____ ENGINE: _____

BORE: _____ STROKE: _____ DISPLACEMENT: _____

PISTON-TO-WALL CLEARANCE:

CYLINDER NO.	1	2	3	4	5	6	7	8
BORE DIAMETER	_____	_____	_____	_____	_____	_____	_____	_____
PISTON DIAMETER	_____	_____	_____	_____	_____	_____	_____	_____
CLEARANCE	_____	_____	_____	_____	_____	_____	_____	_____

PISTON-TO-HEAD CLEARANCE:

CYLINDER NO.	1	2	3	4	5	6	7	8
HEAD GASKET THICKNESS	_____	_____	_____	_____	_____	_____	_____	_____
PISTON DECK HEIGHT	_____	_____	_____	_____	_____	_____	_____	_____
TOTAL CLEARANCE	_____	_____	_____	_____	_____	_____	_____	_____

PISTON DOME VOLUME

VALVE RELIEF DEPTH	_____	_____	_____	_____	_____	_____	_____	_____
INTAKE:	_____	_____	_____	_____	_____	_____	_____	_____
EXHAUST:	_____	_____	_____	_____	_____	_____	_____	_____

MAIN BEARING CLEARANCE:

JOURNAL NO.	1	2	3	4	5
BEARING ID	_____	_____	_____	_____	_____
JOURNAL OD	_____	_____	_____	_____	_____
CLEARANCE	_____	_____	_____	_____	_____

FASTENER TORQUE INNER: _____ OUTER: _____

ROD BEARING CLEARANCE:

JOURNAL NO.	1	2	3	4	5	6	7	8
BEARING ID	_____	_____	_____	_____	_____	_____	_____	_____
JOURNAL OD	_____	_____	_____	_____	_____	_____	_____	_____
CLEARANCE	_____	_____	_____	_____	_____	_____	_____	_____
CRANKSHAFT STROKE	_____	_____	_____	_____	_____	_____	_____	_____

THRUST CLEARANCE _____

PISTON RINGS:

CYLINDER NO.	1	2	3	4	5	6	7	8
END GAP	TOP	_____	_____	_____	_____	_____	_____	_____
	SECOND	_____	_____	_____	_____	_____	_____	_____
	OIL	_____	_____	_____	_____	_____	_____	_____
<u>SIDE CLEARANCE</u>								
	TOP	_____	_____	_____	_____	_____	_____	_____
	SECOND	_____	_____	_____	_____	_____	_____	_____
	OIL	_____	_____	_____	_____	_____	_____	_____

CONNECTING RODS

ROD NO.	1	2	3	4	5	6	7	8
WRIST PIN OD	_____	_____	_____	_____	_____	_____	_____	_____
SMALL END ID	_____	_____	_____	_____	_____	_____	_____	_____
CLEARANCE:	_____	_____	_____	_____	_____	_____	_____	_____

FASTENER TORQUE: _____

ROD NOS:	1 + 2	3 + 4	5 + 6	7 + 8
SIDE CLEARANCE	_____	_____	_____	_____

VALVESPRINGS

CYLINDER NO.	1	2	3	4	5	6	7	8
VALVE	I	E	I	E	I	E	I	E
INSTALLED HEIGHT	_____	_____	_____	_____	_____	_____	_____	_____
SHIM	_____	_____	_____	_____	_____	_____	_____	_____
SEAT PRESSURE	_____	_____	_____	_____	_____	_____	_____	_____
OPEN PRESSURE	_____	_____	_____	_____	_____	_____	_____	_____
COIL BIND	_____	_____	_____	_____	_____	_____	_____	_____
PISTON-TO-VALVE CLEARANCE:	_____	_____	_____	_____	_____	_____	_____	_____

CAMSHAFT

GRIND NUMBER: _____ DURATION @ 0.050": _____ LOBE CENTER: _____

INSTALLED @ INTAKE CENTERLINE _____ LOBE LIFT: _____

ROCKERARM RATIO: _____ THEORETICAL LIFT: _____ ACTUAL LIFT: _____

VALVE
LASH

INTAKE: _____ EXHAUST: _____ HEAD FASTENER TORQUE: _____

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