

ENGINE DATA SHEET

Exact component measurements and clearances are critical in order to build a reliable, powerful engine. Use this form to record component sizes and clearances so your project is a success.

PISTON-TO-WALL CLEARANCE

CYLINDER #	1	2	3	4	5	6	7	8
BORE DIAMETER	_____	_____	_____	_____	_____	_____	_____	_____
PISTON DIAMETER	_____	_____	_____	_____	_____	_____	_____	_____
CLEARANCE	_____	_____	_____	_____	_____	_____	_____	_____

PISTON-TO-HEAD CLEARANCE

CYLINDER #	1	2	3	4	5	6	7	8
HEAD GASKET THICKNESS	_____	_____	_____	_____	_____	_____	_____	_____
PISTON DECK HEIGHT	_____	_____	_____	_____	_____	_____	_____	_____
TOTAL CLEARANCE	_____	_____	_____	_____	_____	_____	_____	_____

PISTON DOME VOLUME

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

MAIN BEARING CLEARANCE

JOURNAL #	1	2	3	4	5
BEARING ID	_____	_____	_____	_____	_____
JOURNAL OD	_____	_____	_____	_____	_____
CLEARANCE	_____	_____	_____	_____	_____



FASTENER TORQUE:

INNER: _____ OUTER: _____

ROD BEARING CLEARANCE

JOURNAL #	1	2	3	4	5	6	7	8
BEARING ID	_____	_____	_____	_____	_____	_____	_____	_____
JOURNAL OD	_____	_____	_____	_____	_____	_____	_____	_____
CLEARANCE	_____	_____	_____	_____	_____	_____	_____	_____
CRANKSHAFT STROKE	_____	_____	_____	_____	_____	_____	_____	_____

THRUST CLEARANCE: _____

PISTON RINGS

CYLINDER #	1	2	3	4	5	6	7	8
END GAP TOP	_____	_____	_____	_____	_____	_____	_____	_____
SECOND	_____	_____	_____	_____	_____	_____	_____	_____
OIL	_____	_____	_____	_____	_____	_____	_____	_____

SIDE CLEARANCE

TOP	_____	_____	_____	_____	_____	_____	_____	_____
SECOND	_____	_____	_____	_____	_____	_____	_____	_____
OIL	_____	_____	_____	_____	_____	_____	_____	_____

CONNECTING RODS

ROD #	1	2	3	4	5	6	7	8
WRIST PIN OD	_____	_____	_____	_____	_____	_____	_____	_____
SMALL END ID	_____	_____	_____	_____	_____	_____	_____	_____

CLEARANCE	_____	_____	_____	_____	_____	_____	_____	_____
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FASTENER TORQUE: _____

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

VALVE SPRINGS

CYLINDER#	1		2		3		4		5		6		7		8	
VALVE	IN	EX	IN	EX	IN	EX	IN	EX	IN	EX	IN	EX	IN	EX	IN	EX
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: _____

ROCKER ARM RATIO: _____ THEORETICAL LIFT: _____ ACTUAL LIFT: _____

VALVE LASH INTAKE: _____ EXHAUST: _____ HEAD FASTENER TORQUE: _____