

## TECHNICAL DATA – ENGINE KTM 125 LC2 '98

Design	single-cylinder, two-stroke Otto engine with balancer shaft, liquid-cooled						
Control	membrane inlet into crankcase, exhaust control by means of servomotor and roller						
Displacement	124.8 ccm						
Bore / stroke	56 / 50.7 mm						
Compression ratio	12.5:1						
Fuel	unleaded fuel with a least RON 91						
Engine lubrication	separate lubrication						
Engine oil	Shell Advance VSX 2 or 2-stroke oil for a mix ratio 1:50 and separate lubrication						
Crankshaft bearing	2 ball bearings						
Conrod bearing	needle bearing						
Piston pin bearing	Bushing						
Piston	cast light alloy						
Piston rings	1 half keystone ring, 1 rectangular ring						
Primary drive	helical gears 22:73 Z						
Clutch	multi disk clutch in oil bath						
Transmission	6-speed shift dog operated						
Transmission reduction	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1st gear 34:12</td> <td style="width: 50%;">4th gear 24:21</td> </tr> <tr> <td>2nd gear 30:16</td> <td>5th gear 22:23</td> </tr> <tr> <td>3rd gear 24:17</td> <td>6th gear 18:22</td> </tr> </table>	1st gear 34:12	4th gear 24:21	2nd gear 30:16	5th gear 22:23	3rd gear 24:17	6th gear 18:22
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Gear oil	0,75 liter (0,2 US gallons) engine oil SAE 10W40 (Shell Advance Ultra 4)						
Ignition system	breakerless CDI ignition system with digital ignition timing						
Generator	12V / 95W						
Spark plug	NGK BR9ES (NGK BR8ES)						
Electrode distance	0.7 mm ± 0.1 mm (0.03 in)						
Cooling system	liquid cooling, permanent circulation of cooling liquid effected by water pump						
Cooling liquide	0.8 Liter (0,2 US gallons), 40% antifreezer, 60% water, at least -25°C (-13°F)						
Carburetor	slide carburetor						
Air filter	wet foam type air filter insert						
Oil tank	tank content: 1,3 liter (0,34 US gallons)						

### BASIC CARBURETOR SETTING 125 Sting

	80 kmh with KAT	100 kmh with KAT	100 kmh without KAT
Type	Dell'Orto PHBH 28 VS	Dell'Orto PHBH 28 VS	Dell'Orto PHBH 28 VS
Carburettor setting number	4171	4171	4175
Main jet	132	132	132
Needle jet	GM1 264	GM1 264	GM1 264
Idling jet	50	50	52
Starting jet	70	70	70
Jet needle	83	83	83
Needle position from top	3	3	3
Mixture adjusting screw open	4 turns	4 turns	4 turns
Throttle slide	40	40	30