TECHNICAL DATA – ENGINE 125 / 200 SX, EXC 2004

Engine	**125 SX**	**125 EXC**	**200 SX**	**200 EXC**
Design	Liquid-cooled, single-cylinder, two-stroke engine with intake and exhaust control			
Piston displacement	124.8 ccm		193 ccm	
Bore / stroke	54 / 54.5 mm (2.126 / 2.145 in)		64 / 60 mm (2.52 / 2.362 in)	
Fuel	unleaded fuel with at least RON 95 (USA = Premium RON 91), mixed with high grade two stroke oil			
Oil / gasoline ratio	1:40-1:60 when using high grade, two- stroke oil (Motorex Cross Power 2T). When in doupt, please contact your importer			
Crankshaft bearing	1 deep-groove ball bearing / 1 cylinder roller bearing			
Connecting rod bearing	needle bearing			
Piston pin bearing	needle bearing			
Piston	cast piston			
Piston ring	one plain compression ring	two plain compression rings	one plain compression ring	two plain compression rings
Dimension "X" (upper edge piston-upper edge cylinder)	0,0 mm			
Ignition timing	1.4 mm (0.055 in) (16.5°) BTDC		1.6 mm (0.063 in) (17°) BTDC	
Spark plug	NGK BR9 EVX			NGK BR 8 EG
Electrode gap	0,60 mm			
Dimension "Z" (height of the control flap)	43 mm (1.67 in)		46 mm (1,81 in)	47 mm (1.85 in)
Primary drive	straight cut spur gears, primary ratio 23:73			
Clutch	multiple disc clutch in oil bath, hydraulically operated (Motorex Kupplungs-Fluid 75)			
Transmission	5 speed, claw actuated	6 speed, claw actuated		
Gear ratio				
1st gear	13 : 32 „1S32“	12 : 33 „1G33“	13 : 32 „1S32“	13 : 33 „1G33“
2nd gear	„2S15“ 15 : 30 „2S30“	„2S15“ 15 : 31 „2G31“	„2S15“ 15 : 30 „2S30“	„2S15“ 15 : 31 „2G31“
3rd gear	„3S17“ 17 : 28 „3S28“	„3S17“ 17 : 28 „3S28“	„3S17“ 17 : 28 „3S28“	„3S17“ 17 : 28 „3S28“
4th gear	„4S19“ 19 : 26 „4S26“	„4S19“ 19 : 26 „4S26“	„4S19“ 19 : 26 „4S26“	„4S19“ 19 : 26 „4S26“
5th gear	„5S21“ 21 : 25 „5S25“	„5S21“ 21 : 25 „5S25“	„5S21“ 21 : 25 „5S25“	„5G17“ 21 : 25 „5G19“
6th gear		„6G20“ 20 : 20 „6G20“	„6S22“ 20 : 23 „6S23“	„6G22“ 20 : 20 „6G20“
Gear lubrication	0.7 l engine oil (Motorex Top Speed 4T 15W50)			
Available chain sprockets	13Z / 14Z / 15Z for chain 5/8 x 1/4"			
Coolant	1.2 litres, 40% anti freeze, 60% water, at least -25 °C (-13 °F)			
Ignition system	KOKUSAN 2K-1	KOKUSAN 2K-3	KOKUSAN 2K-3	KOKUSAN 2K-3
Generator output	no genaerator	12V / 110 W	12V / 110 W	12V 110 W
Ignition system USA	KOKUSAN 2K-1	KOKUSAN 2K-2	KOKUSAN 2K-3	KOKUSAN 2K-2
Generator output	no genaerator	12V 40 W	12V / 110 W	12V 40 W
Carburetor	flat-slide carburetor, carburetor setting see table			
Air-filter	wet foam type air filter insert			

TIGHTENING TORQUES - ENGINE		
Flange bolts - cylinder-head	M 7	18 Nm
Nuts-cylinder base	M 8	30 Nm
Flywheel collar nut	M 12x1	60 Nm
Nut for primary sprocket (LH thread)	M 16x1.5	180 Nm
Nut for inner clutch hub	M 18x1.5	120 Nm
Crankcase and clutch cover bolts	M 6	8 Nm
Spark plug	M 14x1.25	20 Nm
Swingarm pivot	M 16x1.5	100 Nm
Other screws	M 6	10 Nm
	M 8	25 Nm
	M 10	45 Nm

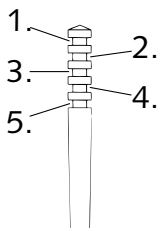
BASIC CARBURETOR SETTING					
	125 SX	**200 EXC USA**	**200 SX**	**200 EXC AUS 200 EXC EU**	**125 EXC EU 125 EXC AUS**
Carburetor	Keihin PWK 39	Keihin PWK 38 AG	Keihin PWK 39	Keihin PWK 38 AG	Keihin PWK 38 AG
Carburetor setting number	141102	080202	151102	100202	070202
Main jet	188 (185/190)	178(180/185)	188 (185/190)	180 (178)	148 (180/185)
Idling jet	45 (48)	45 (48)	45 (48)	35 (45/48)	35 (45/48)
Starting jet	85	85	85	85	85
Jet needle	R 1469 D (R 1468 D)	NOZ E (NOZ F)	R 1468G (R1469G)	R 1475J (NOZ E/NOZ F)	R 1472 N (NOZ E/NOZ F)
Needle position from top	II	III	III	III	V
Throttle valve	5.5	6.5	5.5	6.5	6.5
Air adjustment screw open	1,5	1,5	1,5	1,5	1,5
Performance restrictor	–	–	–	slide stop36mm	–

VERGASERREGULIERUNG
CARBURETOR SETTING

KTM 125 SX EUROPA / USA 2004 KEIHIN PWK 39

MEERESHÖHE **ALTIDUDE**	**TEMPERATUR** →	-20°C bis -7°C *-2°F to 20°F*	-6°C bis 5°C *19°F to 41°F*	6°C bis 15°C *42°F to 60°F*	16°C bis 24°C *61°F to 78°F*	25°C bis 38°C *79°F to 98°F*	37°C bis 49°C *99°F to 120°F*
3000 m *10000 ft* ↑ 2301 m *7501 ft*	LSCHR *AS* LD *IJ* NADEL *NEEDLE* POS *POS* HD *MJ*	1 1/2 45 R1469D 2 185	1 3/4 42 R1470D 3 182	2 40 R1470D 2 180	2 1/4 38 R1470D 2 178	2 1/2 38 R1471D 1 175	
2300 m *7500 ft* ↑ 1501 m *5001 ft*	LSCHR *AS* LD *IJ* NADEL *NEEDLE* POS *POS* HD *MJ*	1 1/4 48 R1469D 3 188	1 1/2 45 R1469D 2 185	1 3/4 42 R1470D 3 182	2 40 R1470D 2 180	2 1/4 38 R1470D 2 178	2 1/2 38 R1471D 1 175
1500 m *5000 ft* ↑ 751 m *2501 ft*	LSCHR *AS* LD *IJ* NADEL *NEEDLE* POS *POS* HD *MJ*	1 50 R1468D 3 190	1 1/4 48 R1469D 3 188	1 1/2 45 R1469D 2 185	1 3/4 42 R1470D 2 182	2 40 R1470D 2 180	2 1/4 38 R1470D 2 178
750 m *2500 ft* ↑ 301 m *1001 ft*	LSCHR *AS* LD *IJ* NADEL *NEEDLE* POS *POS* HD *MJ*	3/4 52 R1468D 4 192	1 50 R1468D 3 190	1 1/4 48 R1469D 3 188	1 1/2 45 R1469D 3 185	1 3/4 42 R1470D 2 182	2 40 R1470D 2 180
300 m *1000 ft* ↑ Meeresniveau *Sea level*	LSCHR *AS* LD *IJ* NADEL *NEEDLE* POS *POS* HD *MJ*	1/2 55 R1468D 5 195	3/4 52 R1468D 4 192	1 50 R1469D 3 190	1 1/4 48 R1469D 3 188	1 1/2 45 R141469D 2 185	1 3/4 42 R1470D 2 182

LSCHR = Luftregulierschraube offen
LD = Leerlaufdüse
POS = Clip Position von oben
HD = Hauptdüse
Schieber= 5,5
Zerstäuber= 6 mm



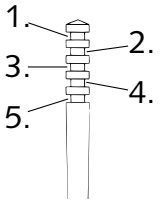
AS = Air screw open from fully-seated
IJ = Idling jet
POS = Clip position from top
MJ = Main jet
Slide = 5,5
Atomizer = 6 mm

NICHT FÜR STRASSENBETRIEB
Kraftstoff: Euro-Super bleifrei ROZ 95
NOT FOR HIGHWAY USE
Fuel: Euro-Super unleaded ROZ 95

VERGASERREGULIERUNG CARBURETOR SETTING KTM 125 EXC EUR 2004 KEIHIN PWK 38 AG

MEERESHÖHE ALTIDUDE	TEMPERATUR →		-20°C bis -7°C *-2°F to 20°F*	-6°C bis 5°C *19°F to 41°F*	6°C bis 15°C *42°F to 60°F*	16°C bis 24°C *61°F to 78°F*	25°C bis 38°C *79°F to 98°F*	37°C bis 49°C *99°F to 120°F*
3000 m *10000 ft* ↑ 2301 m *7501 ft*	LSCHR	*AS*	1 1/2	1 3/4	2	2 1/4	2 1/2	
	LD	*IJ*	45	42	40	38	35	
	NADEL	*NEEDLE*	NOZE	NOZE	NOZE	NOZF	NOZF	
	POS	*POS*	3	3	2	1	1	
	HD	*MJ*	180	178	175	172	170	
2300 m *7500 ft* ↑ 1501 m *5001 ft*	LSCHR	*AS*	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
	LD	*IJ*	48	45	42	40	38	35
	NADEL	*NEEDLE*	NOZD	NOZE	NOZE	NOZF	NOZF	NOZF
	POS	*POS*	4	3	3	2	1	1
	HD	*MJ*	182	180	178	175	172	170
1500 m *5000 ft* ↑ 751 m *2501 ft*	LSCHR	*AS*	1	1 1/4	1 1/2	1 3/4	2	2 1/4
	LD	*IJ*	50	48	45	42	40	38
	NADEL	*NEEDLE*	NOZD	NOZD	NOZE	NOZE	NOZE	NOZF
	POS	*POS*	4	4	3	2	2	1
	HD	*MJ*	185	182	180	178	175	172
750 m *2500 ft* ↑ 301 m *1001 ft*	LSCHR	*AS*	3/4	1	1 1/4	1 1/2	1 3/4	2
	LD	*IJ*	52	50	48	45	42	40
	NADEL	*NEEDLE*	NOZD	NOZD	NOZE	NOZE	NOZE	NOZF
	POS	*POS*	4	4	3	3	2	2
	HD	*MJ*	188	185	182	180	178	175
300 m *1000 ft* ↑ Meeresniveau *Sea level*	LSCHR	*AS*	1/2	3/4	1	1 1/4	1 1/2	1 3/4
	LD	*IJ*	55	52	50	48	45	42
	NADEL	*NEEDLE*	NOZC	NOZD	NOZD	NOZE	NOZE	NOZF
	POS	*POS*	5	4	4	3	3	2
	HD	*MJ*	190	188	185	182	180	178

LSCHR = Luftregulierschraube offen
LD = Leerlaufdüse
POS = Clip Position von oben
HD = Hauptdüse
Schieber= 6,5
Zerstäuber= 5 mm



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MJ = Main jet
Slide = 6,5
Atomizer= 5 mm

NICHT FÜR STRASSENBETRIEB
Kraftstoff: Euro-Super bleifrei ROZ 95
NOT FOR HIGHWAY USE
Fuel: Euro-Super unleaded ROZ 95

VERGASERREGULIERUNG / CARBURETOR SETTING KTM 200 SX EUROPA / USA 2004 KEIHIN PWK 39

MEERESHÖHE / ALTIDUDE	TEMPERATUR →		-20°C bis -7°C / *-2°F to 20°F*	-6°C bis 5°C / *19°F to 41°F*	6°C bis 15°C / *42°F to 60°F*	16°C bis 24°C / *61°F to 78°F*	25°C bis 38°C / *79°F to 98°F*	37°C bis 49°C / *99°F to 120°F*
3000 m *10000 ft* ↑ 2301 m *7501 ft*	LSCHR	*AS*	1 1/2	1 3/4	2	2 1/4	2 1/2	
	LD	*IJ*	48	45	42	40	40	
	NADEL	*NEEDLE*	R1468G	R1469G	R1469G	R1469G	R1470G	
	POS	*POS*	2	3	2	2	1	
	HD	*MJ*	190	188	185	182	180	
2300 m *7500 ft* ↑ 1501 m *5001 ft*	LSCHR	*AS*	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
	LD	*IJ*	50	48	45	42	40	38
	NADEL	*NEEDLE*	R1468G	R1468G	R1469G	R1469G	R1469G	R1470G
	POS	*POS*	3	2	3	2	2	1
	HD	*MJ*	192	190	188	185	182	180
1500 m *5000 ft* ↑ 751 m *2501 ft*	LSCHR	*AS*	1	1 1/4	1 1/2	1 3/4	2	2 1/4
	LD	*IJ*	52	50	48	45	42	4
	NADEL	*NEEDLE*	R1467G	R1468G	R1468G	R1469G	R1469G	1469G
	POS	*POS*	3	3	2	2	2	2
	HD	*MJ*	195	192	190	188	185	182
750 m *2500 ft* ↑ 301 m *1001 ft*	LSCHR	*AS*	3/4	1	1 1/4	1 1/2	1 3/4	2
	LD	*IJ*	55	52	50	48	45	42
	NADEL	*NEEDLE*	R1467G	R1467G	R1468G	R1468G	R1469G	R1469G
	POS	*POS*	4	3	3	3	2	2
	HD	*MJ*	198	195	192	190	188	185
300 m *1000 ft* ↑ Meeresniveau *Sea level*	LSCHR	*AS*	1/2	3/4	1	1 1/4	1 1/2	1 3/4
	LD	*IJ*	58	55	52	50	48	45
	NADEL	*NEEDLE*	R1466G	R1467G	R1468G	R1468G	R1468G	R1469G
	POS	*POS*	5	4	3	3	2	2
	HD	*MJ*	200	198	195	192	190	188

LSCHR = Luftregulierschraube offen
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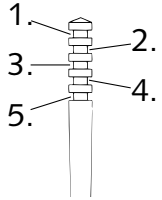
POS = Clip Position von oben
HD = Hauptdüse
Schieber= 5,5
Zerstäuber= 6 mm



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IJ = Idling jet
POS = Clip position from top
MJ = Main jet
Slide = 5,5
Atomizer= 6 mm

NICHT FÜR STRASSENBETRIEB
Kraftstoff: Euro-Super bleifrei ROZ 95
NOT FOR HIGHWAY USE
Fuel: Euro-Super unleaded ROZ 95

VERGASERREGULIERUNG CARBURETOR SETTING KTM 200 MXC/EXC EUR/USA 2004 KEIHIN PWK 38 AG

MEERESHÖHE ALTIDUDE	TEMPERATUR →		-20°C bis -7°C *-2°F to 20°F*	-6°C bis 5°C *19°F to 41°F*	6°C bis 15°C *42°F to 60°F*	16°C bis 24°C *61°F to 78°F*	25°C bis 38°C *79°F to 98°F*	37°C bis 49°C *99°F to 120°F*
3000 m *10000 ft* ↑ 2301 m *7501 ft*	LSCHR	*AS*	1 3/4	1 3/4	1 3/4	2	2	
	LD	*IJ*	45	45	42	42	42	
	NADEL	*NEEDLE*	NOZE	NOZF	N0ZG	NOZG	NOZH	
	POS	*POS*	2	2	2	1	1	
	HD	*MJ*	178	175	172	170	168	
2300 m *7500 ft* ↑ 1501 m *5001 ft*	LSCHR	*AS*	1 1/4	1 3/4	1 3/4	1 3/4	2	2
	LD	*IJ*	45	45	45	42	42	42
	NADEL	*NEEDLE*	NOZE	NOZE	NOZF	NOZG	NOZG	NOZH
	POS	*POS*	3	2	2	2	1	1
	HD	*MJ*	180	178	175	172	170	168
1500 m *5000 ft* ↑ 751 m *2501 ft*	LSCHR	*AS*	1 1/2	1 1/4	1 1/2	1 3/4	1 3/4	2
	LD	*IJ*	48	45	45	45	42	42
	NADEL	*NEEDLE*	NOZD	NOZE	NOZE	NOZF	NOZG	NOZG
	POS	*POS*	3	3	2	2	2	1
	HD	*MJ*	182	180	178	175	172	170
750 m *2500 ft* ↑ 301 m *1001 ft*	LSCHR	*AS*	1 1/4	1	1 1/4	1 1/2	1 3/4	1 3/4
	LD	*IJ*	48	48	45	45	45	42
	NADEL	*NEEDLE*	NOZD	NOZD	NOZE	NOZE	NOZF	NOZG
	POS	*POS*	4	4	3	3	2	2
	HD	*MJ*	185	182	180	178	175	172
300 m *1000 ft* ↑ Meeresniveau *Sea level*	LSCHR	*AS*	1	1 1/4	1 1/2	1 1/4	1 1/2	1 3/4
	LD	*IJ*	50	48	48	45	45	45
	NADEL	*NEEDLE*	NOZC	NOZD	NOZD	NOZE	NOZE	NOZG
	POS	*POS*	5	4	3	3	2	2
	HD	*MJ*	188	185	182	180	178	175

LSCHR = Luftregulierschraube offen
LD = Leerlaufdüse
POS = Clip Position von oben
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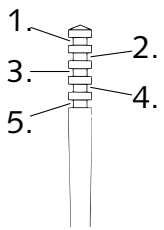
Schieber= 6,5
Zerstäuber= 5 mm



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