

Bill of Materials

KTM Engine Assembly

6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10
Crankshaft	Shift Roller	Engine Casing	Oil Pumps	Shift Arrester	E-starter drive gear and	Outer Clutch Hub	Timing chain guide	Cylinder-base gasket
Balancer shaft		2 M6X30	Oil Pump Shaft	Disk	Kickstarter idler gear	Supporting plate	Tensioning rail	Piston
		6 M6X45	Needle Roller X2	Locking Lever	E-starter idler gear	Needle bearing	2 M6X25	Cylinder head
6-Speed Main Shaft		4 M6X60	Outer Rotor	Locking Lever Spring	Needle bearing	Half disks X2	Timing chain guide	Piston Pin
Split Needle Bearing X2		1 M6X75	Inner Rotor	Locking Spring Sleeve	Reduction gear	Stepped disc	2 M6X16	Wire Clips X2
Stop Disk X3		Engine case gasket	Oil Pump Casing	1 M5X20	Spring shackle	Lock washer		Cylinder dowels X2
Circlip X2			2 M5X12	Shift Locating Drum	1 M6X12	Nut		Collar bolts X4
5th speed idler gear		Free Wheel Gear	Oil Pump Wheel	1 M6X30		Collar Nut		2 M6X45
3rd speed sliding gear		Free Wheel Gear Hub	Stop Disk	Return Spring				1 M6X40
4th speed sliding gear		Free Wheel Gear Bolts X6	Tab Washer	Casing Nose				
6th speed idler gear		Spreader Ring	Oil Pump Cover					
2nd speed fixer gear			2 M5X16					

Countershaft

6-11	6-12	6-13	6-14	6-15	6-16	6-17
Split needle bearing X4	Camshaft	Cylinder head top	Timing chain tens	Custom Flywheel	Intermediate clutch disk	Oil line
Stop Disk X3		1 M6X55	Tensioner gasket	Crankshaft fixing bolt	Lining clutch discs X7	Oil Filters X2
Circlip X3		2 M6X45	2 M6X20	Fixing bolt sealing ring	Thin clutch disc	Oil filter cover X2
2nd speed idler gear		2 M6X30	Valve Covers X2	Wave Washer	Driving pin sleeves X12	Hollow screw
6th speed sliding gear		1 M6X75	6 M6X20	Collar nut	Pressure cap	E-starter motor
4th speed idler gear		1 M6X50	Spark Plug	Shaft disc	Clutch Springs	2 M6X20
3rd speed idler gear		Needle roller		Pulse generator	Spring retainers	Spacer bushing
5th speed sliding gear		Water pump wheel		2 M5X16	Spring retainers	Sprocket
1st speed idler gear		1 M6X20		Ignition Cover	Clutch Cover	Collar screw
		1 Broken Spring seat		2 M6X30	8 M6X30	Spring retainer
Shift Forks X2				2 M6X35	2 M6X35	
Springs X4						
Shift Rolls X2						

Added/Designed/Purchased Components

Decompression Plate	Bearings
Engine Plenum	Clutch Bearing Bracket
Snow to Air Intercooler	Crankshaft Extension
Supercharger Bypass Valve	Oil Pump Bracket
Modified CrankCase	Gear Cover
Fuel Injection System	Oil Line Fittings
Supercharger Belt	Oil Lines
Hybrid Motor/Starter	Gaskets
Oil Pump	Pulleys
Engine Mounts	
CVT Transmission	
Supercharger Belt	