

Technical Data ZABEL Engine 2010-2013

Type: ZM29	liquid-cooled single-cylinder two-stroke engine
Intake:	reed-type intake directly into the crank case dual construction with 16 reeds
Stroke/Bore:	89/100 mm 699 ccm
Power:	KW 60,4 PS 82,1
X Dimension:	1,3 mm / 1,4 mm
Ignition:	PVL Analog Double Ignition Advanced Fire:1,8 mm Sparg Plug: Denso W27ES-U oder W27EMRC
Carburettor:	Bing Type 55/44-205 Premium Fule Unleaded
Clutch:	Oil 850 ccm Actuation: Hydraulic Discs: Outer side Steel and Inner side Kevlar
Primary Ratio:	1,96 (66/31)
Sekundär Ratio:	13 / 53-54
Primary Ratio:	2,2333 (67/30) GP.
Sekundär Ratio:	13 / 50-51 GP.
Gearbox:	1.Gear: 1,5290 (26/17) 2.Gear: 1,2630 (24/19) 3.Gear: 1.0470 (22/21) 4.Gear: 0,8690 (20/23)
Tightening Torques:	
Nut for Disc Carrier	M16x1,0 mm 70 Nm
Nut for Primary Gear Wheel	M24x1,0 mm 105 Nm
Nut for Ignition	M12x1,0 mm 50 Nm
Nut for Cylinder Base	M10x1,0 mm 50 Nm
Oil Drain Plug	M14x1,5 mm 30 Nm
Screw for Cylinder Head	M8x1,25 mm 32 Nm
All Screws	M6 mm 10 Nm
All Screws	M5 mm 05 Nm

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Bing carburettor**01024****MX-ZABEL Lindenplatz 6, 14827 Reetz - Tel. 033849/50062, Fax. 033849/50063**

Picture	Box	Item-No.	Description		
1		00651	Führungsstück		
2		00650	clip		
3		00643	jet needle L6L		
4		01235	screw plug for starter		
5		01236	Rubber plug for starter		
6		00038	copper washer for oil drain plug		
7		00575	starter housing with piston complete		
8		00701	idle jet 80		
8		00702	idle jet 85		
8		01346	idle jet 90		
8		01347	idle jet 95		
9		00674	screen for idle jet		
10		00703	throttle slide 170		
11		01151	carburettor complete 55//44-205		
11		00675	Carburetor kit.(Body-slide-seal)		
12		00641	diffuser		
13		00686	needle jet 284		
13		06090	needle jet 285		
13		00687	needle jet 286		
13		02084	needle jet 288		
13		02085	needle jet 290		
13		02086	needle jet 292		
13		02087	needle jet 294		
13		02088	needle jet 296		
13		02089	needle jet 298		
13		02090	needle jet 300		
14		00648	jet carrier		
15		00683	main jet 225		
15		00684	main jet 230		
15		03854	main jet 235		
15		02181	main jet 240		
15		02180	main jet 245		
15		02179	main jet 250		
15		02595	main jet 255		
15		02596	main jet 260		
15		02597	main jet 265		
16		00649	screen sleeve		
17		00009	vent hose		
18		03858	swab completely		
19		00653	spring for setting screw		
20		00652	setting screw for throttle slide		
21		00586	spring for setting screw		
22		00646	O-ring		
23		00645	air control screw		
24		00664	spring clip for float needle		
25		00663	float needle valve		
26		00662	holding pin for float		
27		01234	starter jet 115		
28		00661	float		
29		00666	gasket for float housing		
30		00665	float housing		
31		00660	rubber grommet		
32		00658	setting screw		
33		00659	nut for setting screw		
34		00657	retainer		
35		00655	cover plate		
36		00656	sealing for cover plate		
37		00654	spring for throttle slide		
38		00667	spring clip for float housing		

<u>gearbox 4-gear from 2003</u>					06651
Picture	Box	Item-No.	Description		
1		00739	bearing for gearbox main shaft right		
2		05005	fit washer 20x28x1,0 mm		
2		05187	fit washer 20x28x0,5 mm		
3		06007	gearbox main shaft		
4		05138	fit washer 25x31,5x1,0 mm		
4		05185	fit washer 25x31,5x0,50 mm		
5		00740	bearing for gearbox main shaft since		
6		06042	bushing for clutch cage since 2005		
7		05098	needle bearing for clutch cage		
8		00142	seeger-type circlip SPI21		
9		06008	gear wheel 1.gear 17teeth main shaft		
10		00139	fit washer 22x32x1,00 mm DIN988		
11		06003	needle bearing for gear wheel 3.gear		
12		06004	inner ring for gear wheel 3.gear		
13		06009	gear wheel 3.gear 21teeth main shaft		
14		06022	fit washer 22x32x2,0 mm DIN 988		
15		06010	gaer wheel 2.gear 19teeth main shaft		
16		05136	circlip for gearbox main shaft		
17		05142	fit washer 25x29,20x1,00 mm		
17		05186	fit washer 25x29,20x0,50 mm		
18		06011	gear wheel 4.gear 23teeth main shaft		
19		06020	Needle bearing for gear wheel 1.gear		
20		05098	needle bearing for clutch cage		
21		06002	inner ring for gear wheel 1.gear		
22		06013	gear wheel 1.gear 2 teeth drive		
23		05186	fit washer 25x29,20x0,50 mm		
23		05142	fit washer 25x29,20x1,00 mm		
24		05136	circlip for gearbox main shaft		
25		06014	gear wheel 3.gaer 22 teeth drive		
26		05201	circlip for drives shaft		
27		05138	fit washer 25x31,5x1,0 mm		
27		05185	fit washer 25x31,5x0,50 mm		
28		06015	gear wheel 2.gear 24 teefh drive		
29		06005	needle bearing for gear wheel 4.gear		
30		06006	inner ring for gear wheel 2.gear		
31		05151	fit washer 25x36x1,0 mm		
31		06017	fit washer 25x35x1,50 mm		
32		05201	circlip for drives shaft		
33		06016	gear wheel 4.gear 20 teeth drive		
34		05152	fit washer 20x35x1,50 mm		
34		06032	fit washer 20x35x2,00 mm		
35		00050	circlip for pinion		
36		00047	pinion 13 teeth		
37		00043	distance sleeve on drive shaft		
38		00042	O-ring for drive shaft		
39		00044	radial shaft seal for drive shaft ri		
40		00036	grooved ball bearing for drive shaft		
41		06012	gearbox drive shaft		
42		00019	circlip for drive shaft		
43		06001	bushing for drive shaft left side		
44		06000	needle bearing for drive shaft left		
45		05286	fit washer 20x35x1,0 mm		
45		05152	fit washer 20x35x1,50 mm		
46		05099	needle bearing for kick starter		
47		05078	kick starter intermediate gear		
48		05188	fit washer 20x32x1,0 mm		
48		05213	fit washer 20x32x0,50 mm		
49		05134	circlip for srive shaft left side		

