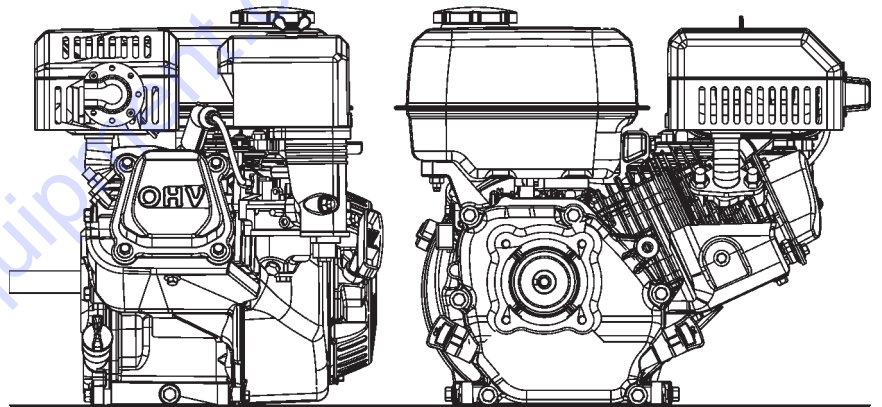


RATO R180

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EDITION 08/2021 ML
From Engine No. 3000001

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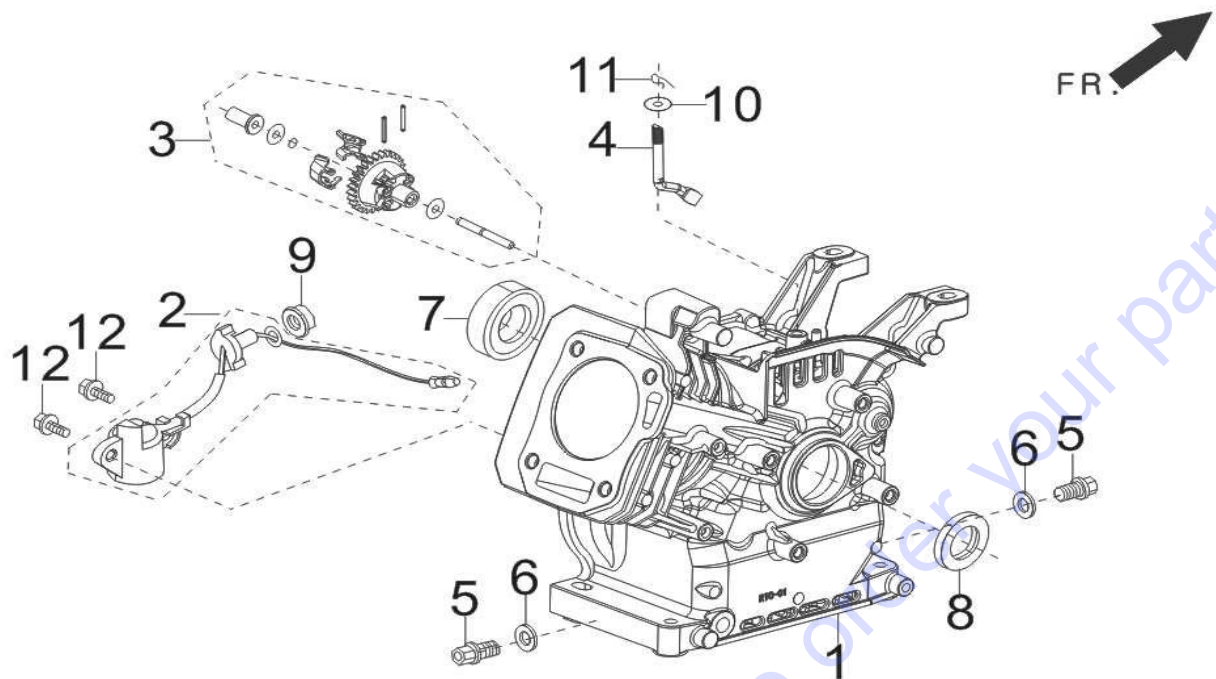
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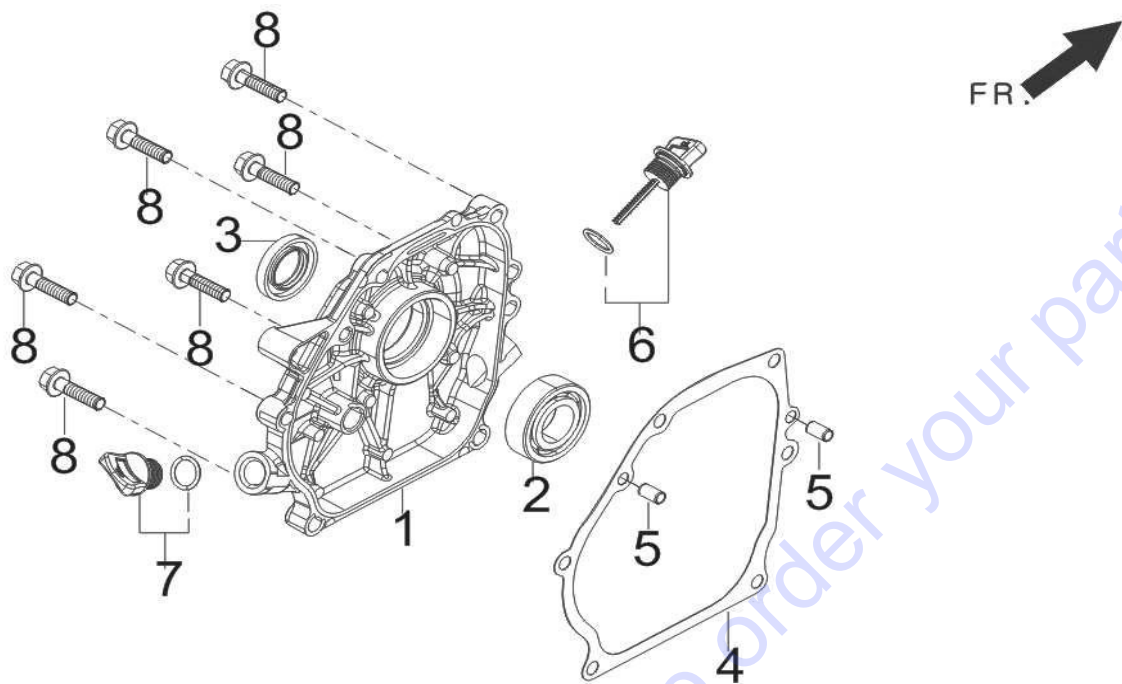
PAGE SEITE	ASSEMBLY	BAUGRUPPE
100	CRANKCASE. / GEAR ASSY, GOVERNOR.	KURBELGEHÄUSE. / ZAHNRAD ZSB., REGLER
200	COVER SUBASSEMBLY, CRANKCASE	ABDECKUNG UNTERBAUGRUPPE, KURBELGEHÄUSE
300	HEAD SUBASSEMBLY, CYLINDER / PLUG, SPARK	KOPFBAUGRUPPE, ZYLINDER / ZÜNDKERZE
400	ROD, CRANKSHAFT CONNETING	STAB, KURBELWELLE ANSCHLUSS
500	RING SET, OIL / ROD, CRANKSHAFT CONNETING	RINGSATZ, ÖL / STANGE, KURBELWELLE ANSCHLUSS
600	TRAIN, VALVE / CAMSHAFT SUBASSEMBLY	ZUG, VENTIL- / NOCKENWELLEN-UNTERBAUGRUPPE
700	STARTER, RECOIL	ANLASSER, RÜCKLAUF
800	SHROUD / SHIELD, LOWER	SCHUTZ / SCHILD, UNTEN
900	CARBURETOR ASSY.	VERGASER ZSB.
1000	FLYWHEEL / IMPELLER / STARTER PULLEY / IGNITION COIL	SCHWUNGRAD / LAUFRAD / ANLASSERSCHEIBE / ZÜNDSPULE
1100	CONTROL ASSY, THROTTLE	STEUERUNG, GAS
1200	CLEANER, AIR	LUFTFILTER
1300	MUFFLER ASSY.	SCHALLDÄMPFER ZSB.
1400	TANK ASSY, FUEL	TANK-ZSB., KRAFTSTOFF

RATO R180 — 100

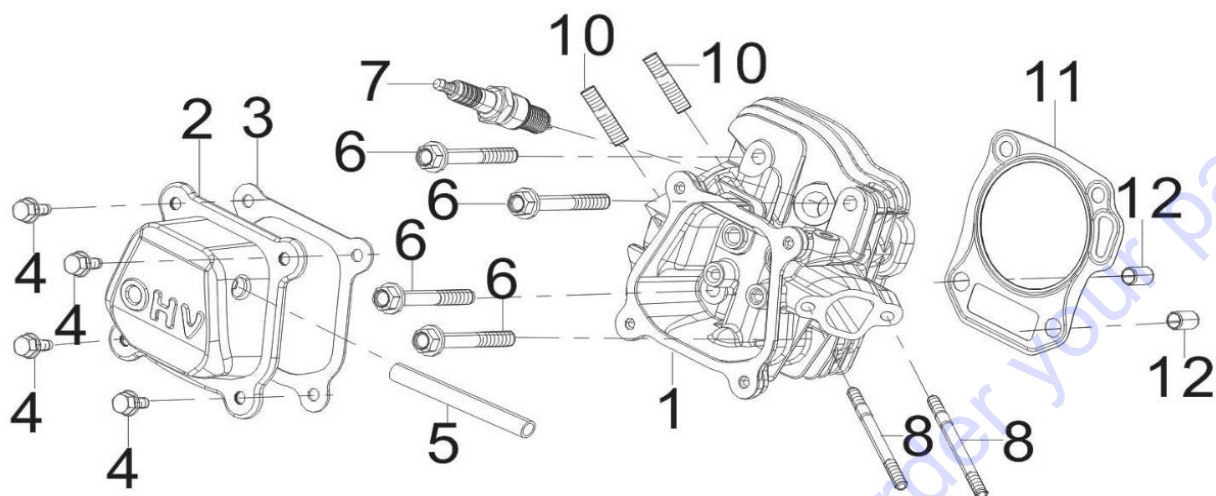


Pos.	Part-No. Artikel-Nr. No. pièce No. Pieza	Qty. Stück Quantité Cantidad	Identification	Bezeichnung	S/N from-to S/N von-bis
1	11310-Z440520-00A0	1	CRANKCASE SUBASSEMBLY.	KURBELGEHÄUSEEINHEIT.	
2	37060-Z010120-00A0	1	SENSOR, ENGINE OIL	SENSOR, MOTORÖL	
3	16400-Z010110-00A0	1	GEAR ASSY, GOVERNOR	ZAHNRAD-ZUSAMMENSETZUNG, REGLER	
4	16061-Z010110-00A0	1	ARM, GOVERNOR	ARM, GOUVERNEUR	
5	11007-Z010110-00A0	2	BOLT, DRAIN PLUG	SCHRAUBE, ABLAUFSTECKER	
6	90408-Z010110-00A0	2	WASHER, FLAT	UNTERLEGSCHIEBE, FLAT	
7	90547-0205-CLA0	1	BEARIN, DEEP GROOVE BALL	LAGER, RILLENKUGEL	
8	90682-Z300110-00A0	1	SEAL, OIL	DICHTUNG, ÖL	
9	90305-Z010210-01A0	1	NUT	MUTTER	
10	90408-Z010210-00A0	1	WASHER, FLAT	UNTERLEGSCHIEBE, FLAT	
11	90501-Z010110-00A0	1	PIN	STIFT	
12	90001-0614-01A0	2	BOLT	BOLZEN	

RATO R180 — 200

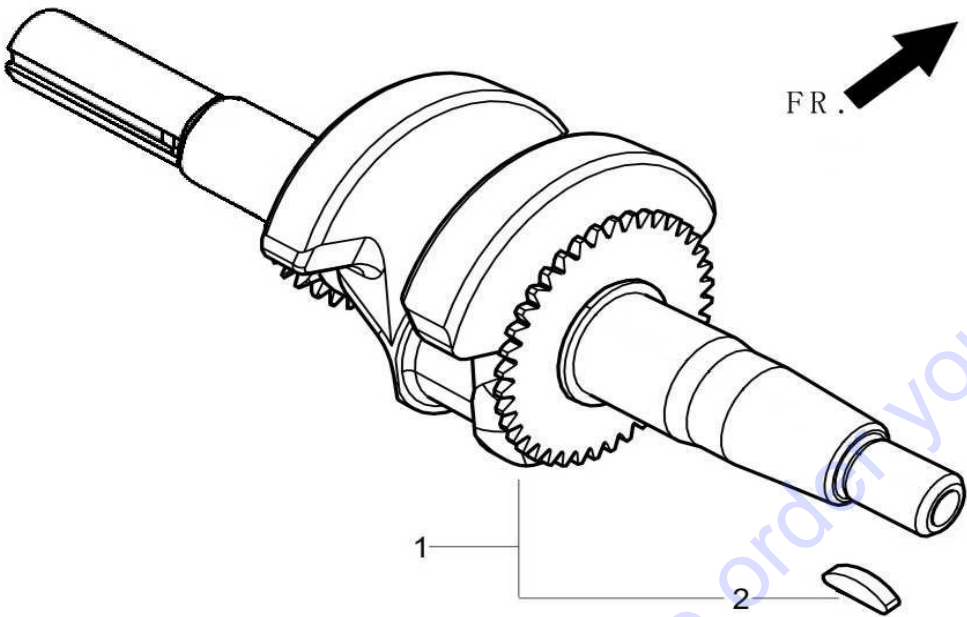


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1	11411-Z440210-00A1	1	COVER, CRANKCASE	ABDECKUNG, KURBELGEHÄUSE	
2	90547-0205-CLA0	1	BEARIN, DEEP GROOVE BALL	LAGER, DEEP GROOVE BALL	
3	90682-Z300110-00A0	1	SEAL, OIL	DICHTUNG, ÖL	
4	11001-Z440110-00A0	1	GASKET, CRANKCASE	DICHTUNG, KURBELGEHÄUSE	
5	90502-0912-00A0	2	PIN	STIFT	
6	15010-Z010130-Q5A0	1	DIPSTICK SUBASSEMBLY, OIL	MESSTAB-UNTERBAU, ÖL	
7	15030-Z010130-Q5A0	1	PLUG SUBASSEMBLY, ENGINE OIL	STECKERBAUGRUPPE, MOTORÖL	
8	90001-0832-01A0	6	BOLT	BOLZEN	

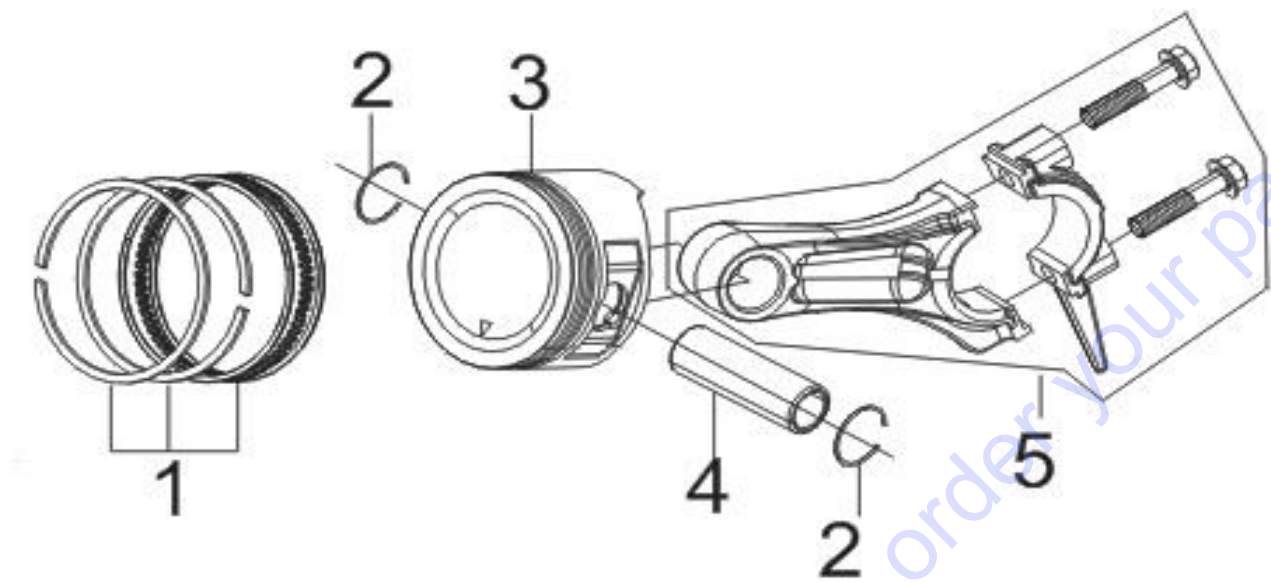


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1	12140-Z810210-00A0	1	HEAD SUBASSEMBLY, CYLINDER	KOPFBAUGRUPPE, ZYLINDER	
2	12410-Z300120-00A0	1	COVER SUBASSEMBLY, CYLINDER HEAD	ABDECKUNG, ZYLINDERKOPF	
3	12004-Z010110-00A0	1	GASKET, CYLINDER HEAD COVER	DICHTUNG, ZYLINDERKOPFABDECKUNG	
4	90001-0612-01A0	4	BOLT	BOLZEN	
5	17004-Z050210-00A0	1	TUBE, BREATHER	SCHLAUCH, ENTLÜFTER	
6	12003-Z010110-00A0	4	BOLT, CYLINDER HEAD	BOLZEN, ZYLINDERKOPF	
7	30010-Z010110-00A0	1	PLUG, SPARK	STECKER, ZÜNDKERZE	
8	90204-Z010310-01A0	2	BOLT	BOLZEN	
10	90203-Z010110-01A0	2	BOLT	BOLZEN	
11	12131-Z440320-00A0	1	GASKET, CYLINDER HEAD	ZYLINDERKOPFDICHTUNG	
12	90502-1114-00A0	2	PIN	STIFT	

RATO R180 — 400

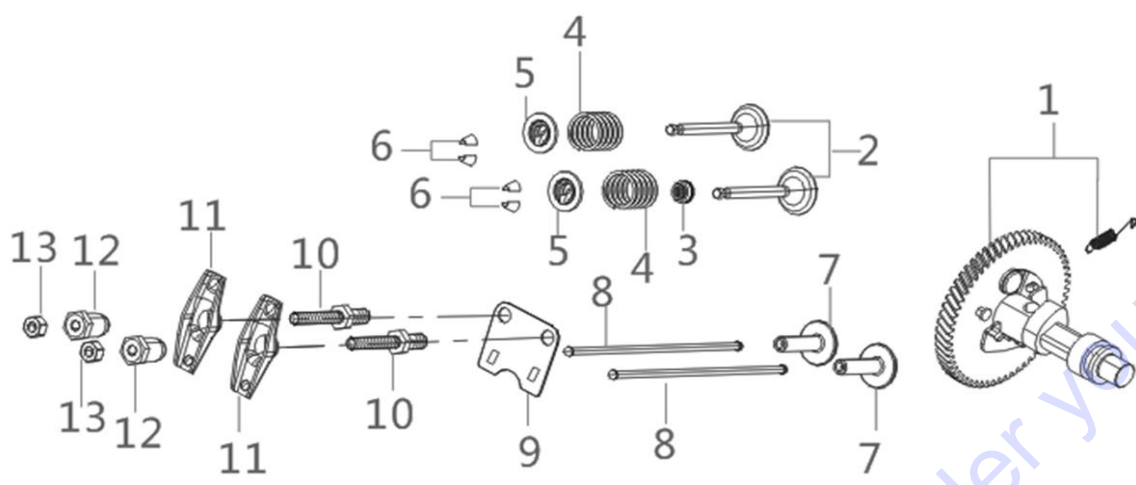


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1	13300-Z442010-00A0	1	CRANKSHAFT ASSY.	KURBELWELLE ZSB.	

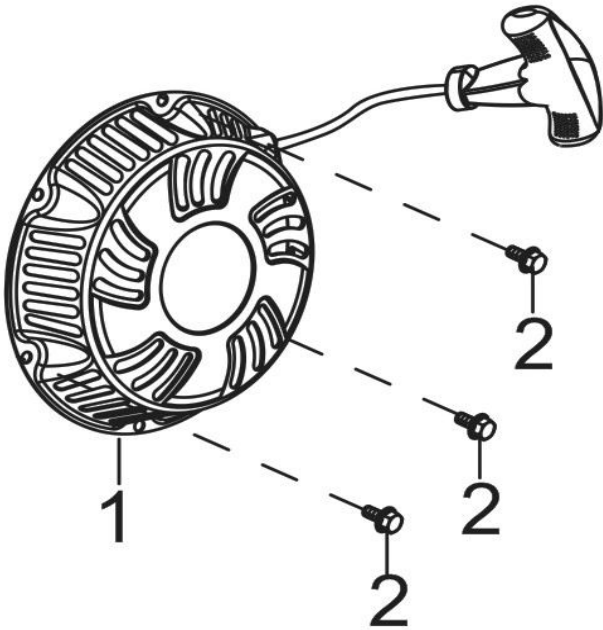


Pos.	Part-No. Artikel-Nr. No. pièce No. Pieza	Qty. Stück Quantité Cantidad	Identification	Bezeichnung	S/N from-to S/N von-bis
1	13200-Z440110-00A9	1	RING ASSY, PISTON	RINGBAUGRUPPE, KOLBEN	
2	13122-Z350110-00A0	2	CLIP, PISTON PIN	CLIP, KOLBENSTIFTE	
3	13111-Z440220-00A9	1	PISTON	KOLBEN	
4	13121-Z810110-00A0	1	PIN, PISTON	STIFT, KOLBEN	
5	13010-Z810210-00A0	1	ROD, CONNECTING	STAB, VERBINDUNG	

RATO R180 — 600

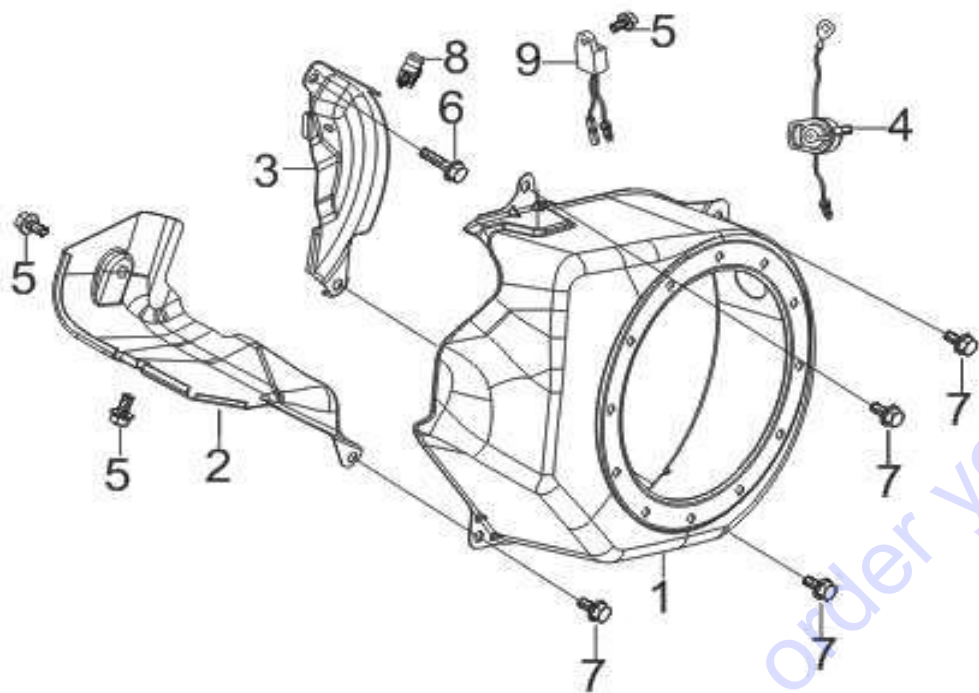


Pos.	Part-No. Artikel-Nr. No. pièce No. Pieza	Qty. Stück Quantité Cantidad	Identification	Bezeichnung	S/N from-to S/N von-bis
1	14200-Z440210-00A9	1	CAMSHAFT ASSY.	NOCKENWELLE ZSB.	
2	12110-Z810120-00A9	1	VALVES SET	VENTILE SATZ	
3	12101-Z810210-00A0	1	GUIDE, SEAL	FÜHRUNG, DICHTUNG	
4	12103-Z010110-00A0	2	SPRING, VALVE	FEDER, VENTIL	
5	12112-Z810210-00A0	2	SEAT, VALVE SPRING	SITZ, VENTILFEDER	
6	12109-Z810110-00A0	4	CLAMP, VALVE LOCK	KLEMME, VENTILVERRIEGELUNG	
7	14081-Z040110-00A0	2	TAPPET, VALVE	STÖßEL, VENTIL	
8	14071-Z440110-00A0	2	LIFTER, VALVE	HEBE, VENTIL	
9	14090-Z010110-00A0	1	PLATE SUBASSEMBLY, LIFTER STOPPER	PLATTENUNTERBAU, HEBESTOPPER	
10	14313-Z010110-00A0	2	BOLT, ROCKER SHAFT	SCHRAUBE, KIPPWELLE	
11	14311-Z010110-00A0	2	ROCKER, VALVE	KIPPHABEL, VENTIL	
12	14314-Z010110-00A0	2	NUT, VALVE ADJUSTING	MUTTER, VENTILEINSTELLUNG	
13	14312-Z010110-00A0	2	NUT, VALVE LOCK	MUTTER, VENTILSPERRE	



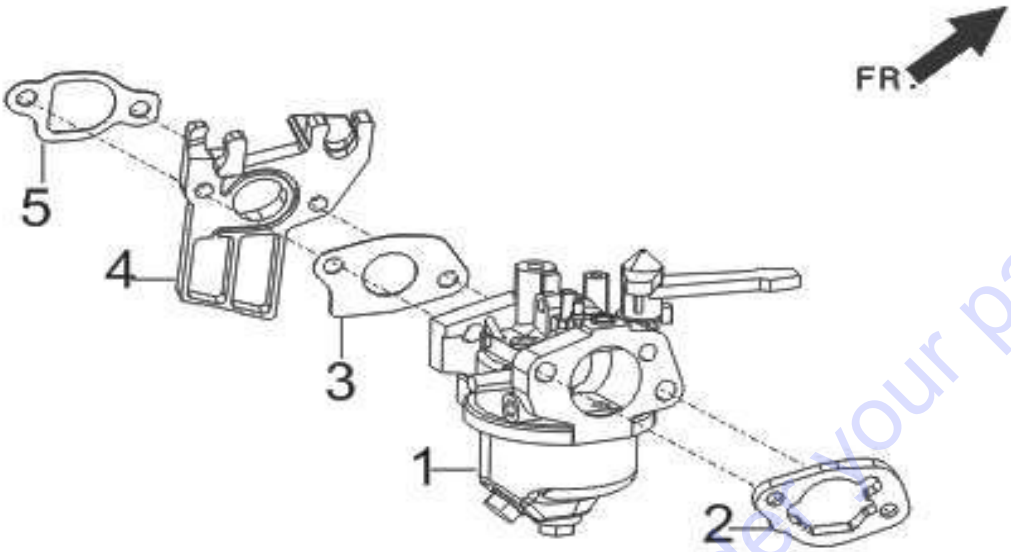
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1	28200-Z440110-H300	1	STARTER ASSY, RECOIL	ANLASSER ZSB., RÜCKLAUF	
2	90001-0608-01	3	BOLT	BOLZEN	

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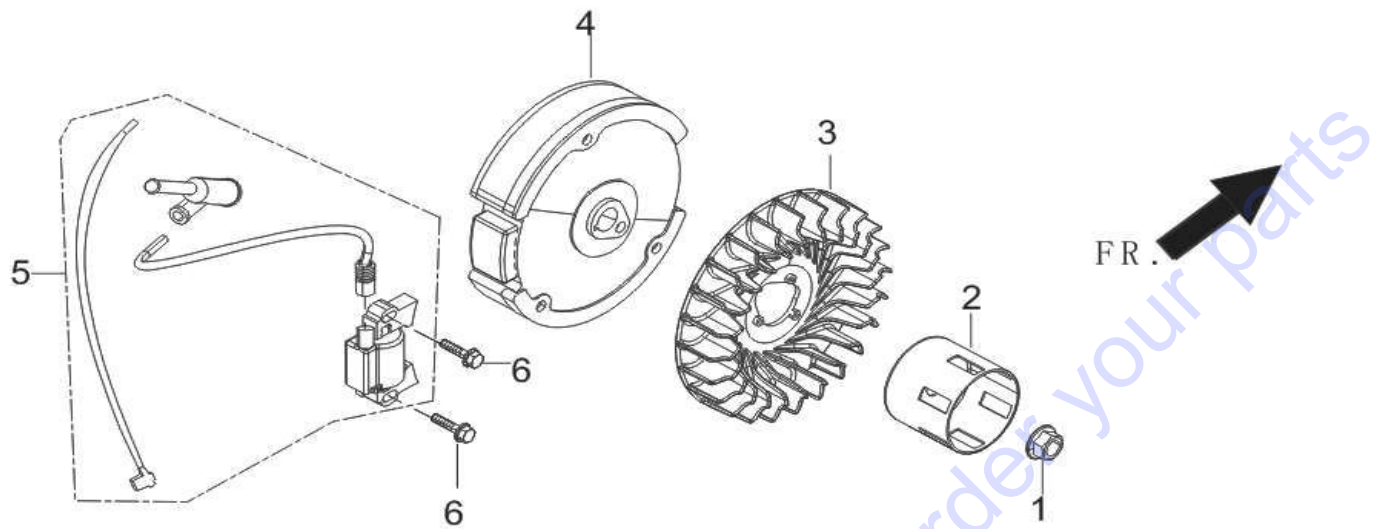
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1	28110-Z010410-H300	1	SHROUD	SCHUTZ	
2	19304-Z010610-00A0	1	SHROUD, CYLINDER BODY	HAUBE, ZYLINDERKÖRPER	
3	19340-Z010120-00A0	1	SHIELD, LOWER	SCHILD, UNTEN	
4	35540-Z060140-Q2A0	1	SWITCH SUBASSEMBLY, STOP ENGINE	BAUGRUPPE SCHALTEN, MOTOR ABSTELLEN	
5	90001-0610-01A0	3	BOLT	BOLZEN	
6	90001-0616-01A0	1	BOLT	BOLZEN	
7	90001-0612-01A0	4	BOLT	BOLZEN	
8	90740-Z010110-00A0	1	COLLAR	KRAGEN	
9	37050-Z010210-00A0	1	PROTECTOR, OIL	SCHUTZ, ÖL	

RATO R180 — 900



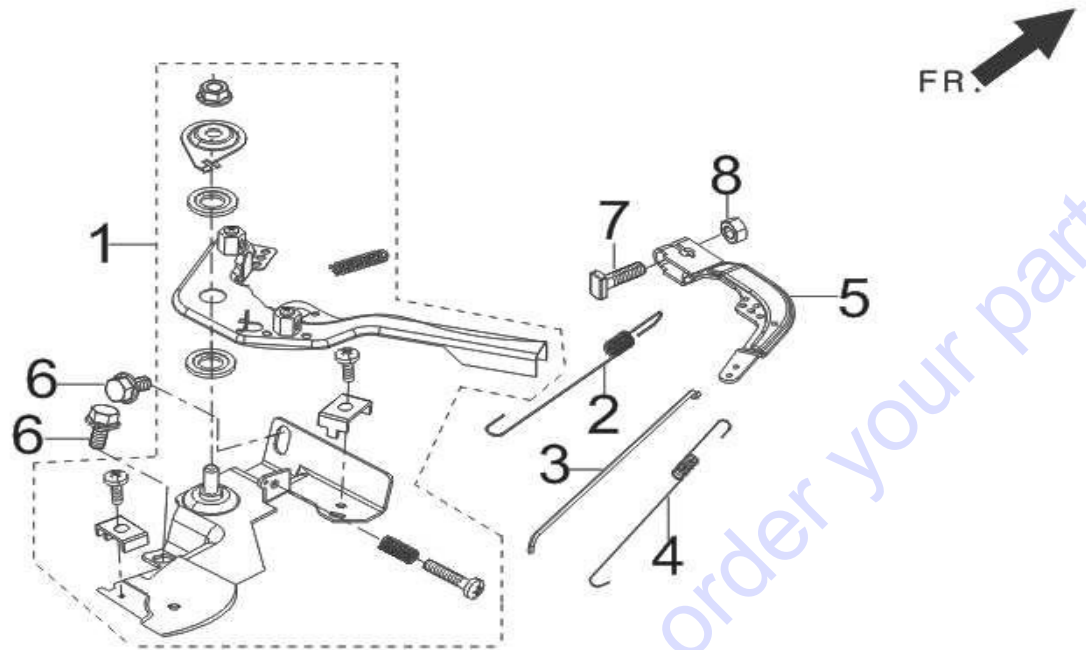
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1	16100-Z440610-00A9	1	CARBURETOR ASSY.	VERGASER ZSB.	
2	17001-Z010210-00A0	1	GASKET, AIR CLEANER	DICHTUNG, LUFTFILTER	
3	16001-Z010110-00A0	1	GASKET, CARBURETOR	DICHTUNG, VERGASER	
4	16003-Z010110-00A0	1	PLATE, CARBURETOR INSULATOR	PLATTE, VERGASERISOLATOR	
5	16002-Z050110-00A0	1	GASKET, CARBURETOR INSULATOR	DICHTUNG, VERGASERISOLATOR	

RATO R180 — 1000



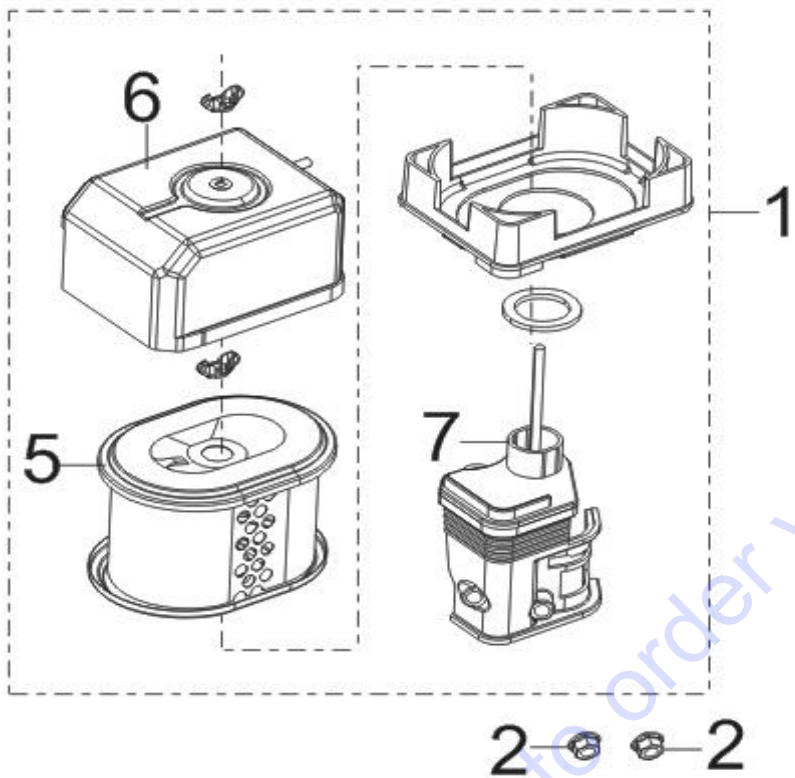
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1	13501-Z010110-00A0	1	NUT, FLYWHEEL	MUTTER, SCHWUNGRAD	
2	28002-Z010310-00A0	1	PULLEY, STARTER	RIEMENSCHLEIBE, STARTER	
3	19352-Z440110-00A0	1	IMPELLER	LAUFRAD	
4	13510-Z440410-00A0	1	FLYWHEEL SUBASSEMBLY	SCHWUNGRAD-UNTERBAUGRUPPE	
5	30400-Z440110-01A0	1	COIL, IGNITION	SPULE, ZÜNDUNG	
6	90001-0625-01A0	2	BOLT	BOLZEN	

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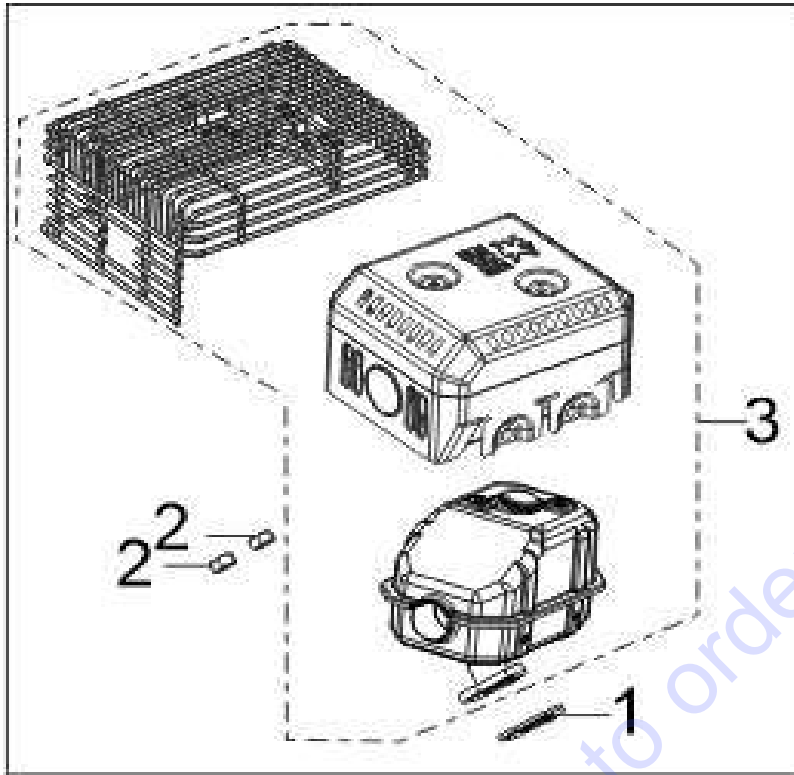
Pos.	Part-No. Artikel-Nr. No. pièce No. Pieza	Qty. Stück Quantité Cantidad	Identification	Bezeichnung	S/N from-to S/N von-bis
1	16520-Z010430-00A1	1	CONTROL ASSY, THROTTLE	STEUERUNG, GAS	
2	16063-Z050410-00A0	1	SPRING, GOVERNOR	FEDER, REGLER	
3	16062-Z010110-00A0	1	ROD, GOVERNEOR	STANGE, REGLER	
4	16012-Z010110-00A0	1	SPRING, THROTTLE VALVE RETURNING	FEDER, DROSSELKLAPPENRÜCKLAUF	
5	16070-Z010110-00A0	1	SUPPORT SUBASSEMBLY, GOVERNOR	STÜTZE UNTERBAUGRUPPE, REGLER	
6	90001-0610-01A0	2	BOLT	BOLZEN	
7	16072-Z010110-00A0	1	BOLT, GOVERNOR SUPPORT	BOLZEN, REGLERUNTERSTÜTZUNG	
8	90305-0600-31A0	1	NUT	MUTTER	

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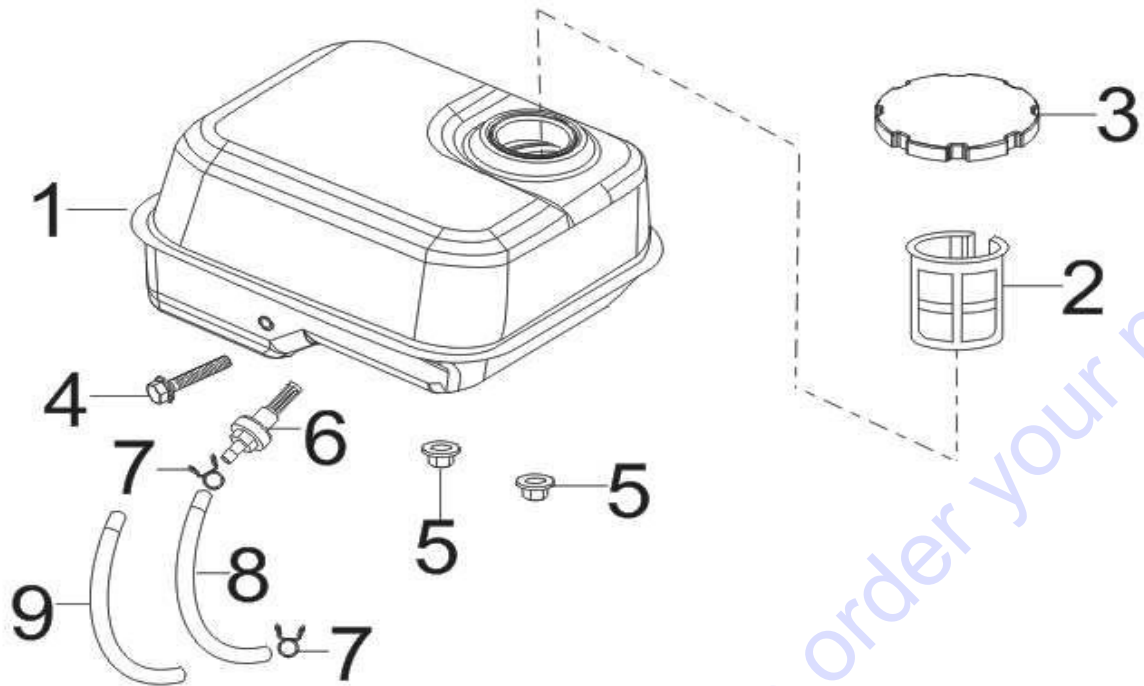
Pos.	Part-No. Artikel-Nr. No. pièce No. Pieza	Qty. Stück Quantité Cantidad	Identification	Bezeichnung	S/N from-to S/N von-bis
1	17100-Z010210-00A0	1	CLEANER, AIR	LUFTFILTER	
2	90305-0600-31A0	2	NUT	MUTTER	
5	17150-Z010110-00A0	1	ELEMENT, AIR CLEANER	ELEMENT, LUFTFILTER	

RATO R180 — 1300



Pos.	Part-No. Artikel-Nr. No. pièce No. Pieza	Qty. Stück Quantité Cantidad	Identification	Bezeichnung	S/N from-to S/N von-bis
1	18001-Z440110-00A0	1	GASKET, EXHAUST OUTLET	DICHTUNG, AUSPUFFAUSLASS	
2	90303-0800-31A0	2	NUT	MUTTER	
3	18100-Z441810-H3A0	1	MUFFLER ASSY.	SCHALLDÄMPFER ZSB.	

RATO R180 — 1400



Pos.	Part-No. Artikel-Nr. No. pièce No. Pieza	Qty. Stück Quantité Cantidad	Identification	Bezeichnung	S/N from-to S/N von-bis
1	16620-Z300110-H3AP	1	TANK, FUEL	TANK, KRAFTSTOFF	
2	16652-Z010810-00A0	1	STRAINER, FUEL	SIEB, KRAFTSTOFF	
3	16730-Z300120-00A0	1	COVER, FUEL TANK	ABDECKUNG, KRAFTSTOFFTANK	
4	90001-0630-01A0	1	BOLT	BOLZEN	
5	90305-0600-31A0	2	NUT	MUTTER	
6	16680-Z010110-00A0	1	OUTLET SUBASSEMBLY, FUEL TANK OIL	AUSLASSBAUGRUPPE, KRAFTSTOFFTANKÖL	
7	90740-Z010210-00A0	2	COLLAR	KRAGEN	
8	90686-Z010510-00A0	1	TUBE, FUEL	ROHR, KRAFTSTOFF	
9	30431-Z010110-00A0	1	JACKET, RUBBER	JACKE, GUMMI	

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