

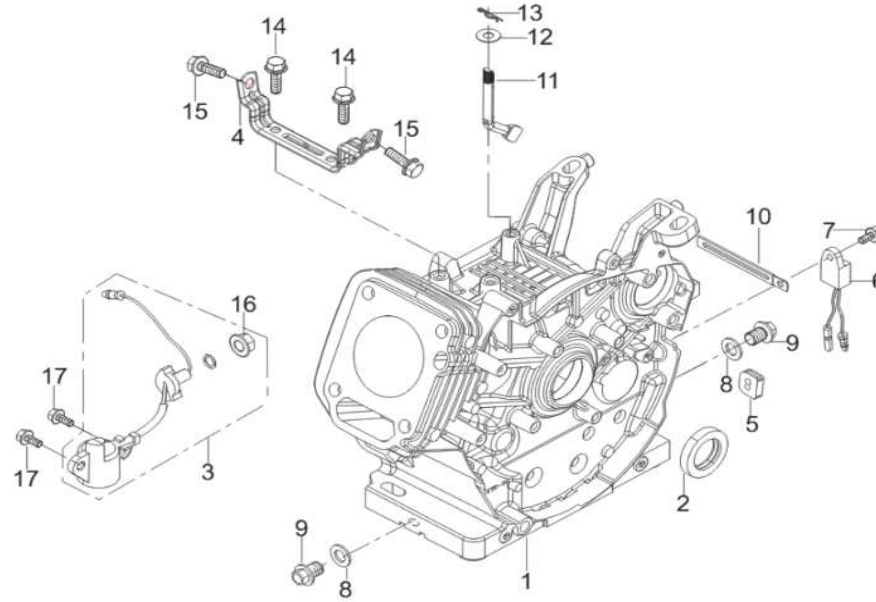
1-0261 Engine 300cc Electric Start

For parts Call 888-279-9274

VENDOR:	RATO
MODEL:	R-300 50 STATE

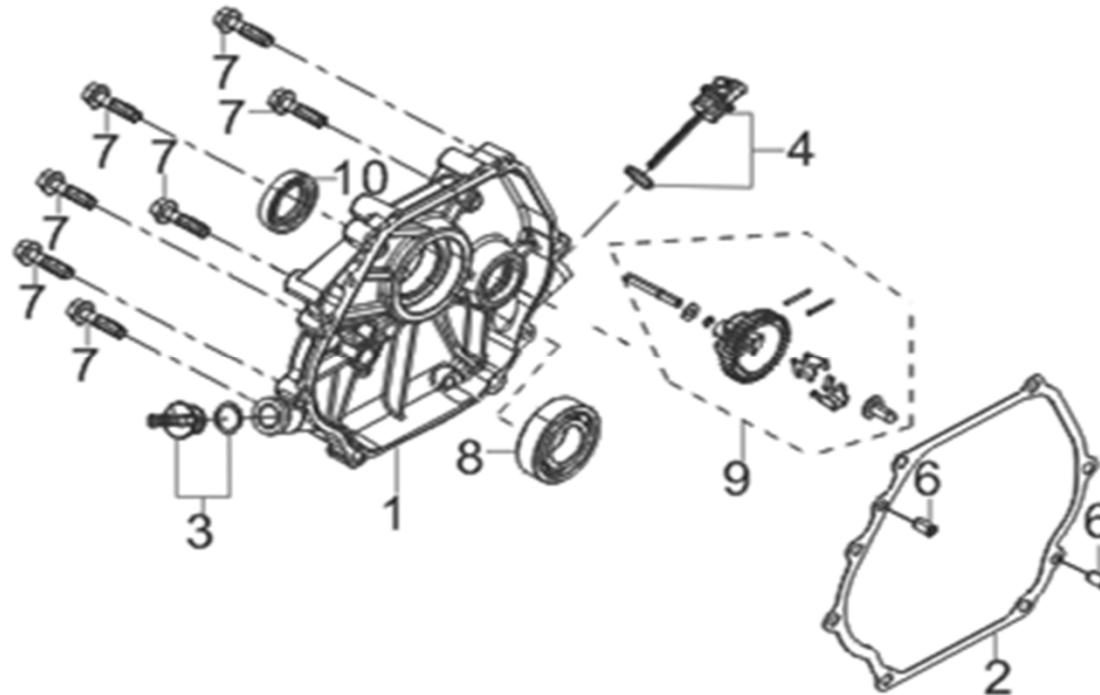
DATE:	DESCRIPTION:	BY:
10/6/22	ADDED NEW AIR FILTER, ADDED WASHER TO AIR FILTER & NEW CARB. ASSEMBLY	JJR
1/13/23	REPLACE 80-0149 WITH 45-0435 GASKET, THEY ARE THE SAME	JJR
5/30/23	UPDATED VENDOR PART NUMBERS 45-0562 & 45-0563	JJR
12/1/23	REPLACE 45-0325 NUT WITH 45-1114 LOCK NUT ON MUFFLER STUD	JJR
5/20/24	ADDED A KEY FOR THE STARTER	JJR

FIG.1 CRANKCASE/GOVERNOR GEAR ASSEMBLY



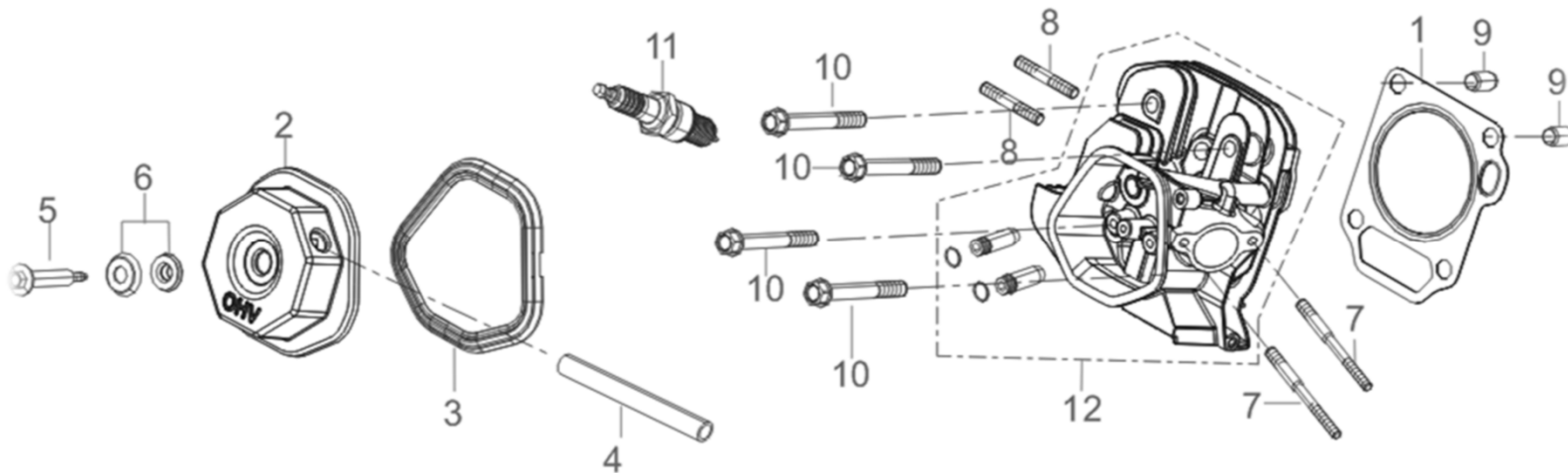
Ref #	Description	Qty	MiTM	RATO
1-01	CRANKCASE SUBASSEMBLY.	1	45-0909	11310-Z890110-0BA0
1-02	SEAL, OIL	1	45-0333	90682-Z080110-00A0
1-03	SENSOR, ENGINE OIL	1	45-0787	37060-Z080120-0000
1-04	FRAME, FUEL TANK INSTALLTION	1	45-0925	16612-Z080120-H7A0
1-05	PLUG, RUBBER	1	45-0306	28101-Z080110-0000
1-06	PROTECTOR, OIL	1	45-0313	37050-Z010210-0000
1-07	BOLT	1	80-0405	90001-0612-01A0
1-08	FLAT WASHER	2	45-0326	90412-Z080110-00A0
1-09	BOLT, DRAIN PLUG	2	45-0236	11007-Z080110-00A0
1-10	WIRE CLIP	1	80-0592	90684-Z010310-0000
1-11	ARM, GOVERNOR	1	45-0360	16061-Z080110-00A0
1-12	FLAT WASHER - GRADE A	1	45-0327	90412-Z080210-00A0
1-13	COTTER PIN	1	45-0328	90501-Z010110-0000
1-14	BOLT	2	80-0479	90001-0820-01A0
1-15	BOLT	2	80-0478	90001-0816-01A0
1-16	HEXAGON NUT WITH FLANGE	1	80-0396	90305-Z010210-01A0
1-17	BOLT	2	80-0365	90001-0616-01A0

FIG.2 CRANKCASE COVER SUBASSEMBLY



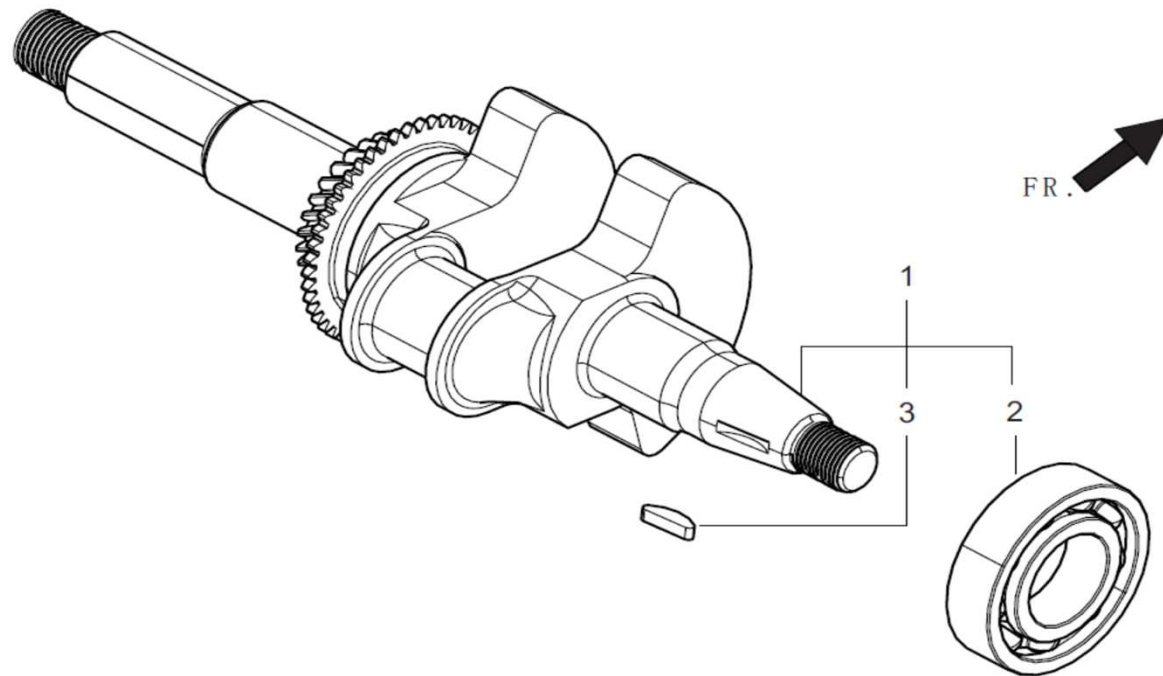
Ref #	Description	Qty	MiTM	RATO
2-01	COVER, CRANKCASE	1	45-0817	11411-Z580110-0BA0
2-02	GASKET, CRANKCASE	1	45-0926	11001-Z580120-0000
2-03	PLUG SUBASSEMBLY, ENGINE OIL	1	45-0927	15030-Z080130-Q500
2-04	DIPSTICK SUBASSEMBLY, OIL	1	45-0928	15010-Z080130-Q500
2-06	POSITION PIN - TYPE A	2	45-0329	90502-0912-00A0
2-07	BOLT	7	45-0389	90001-0835-01A0
2-08	DEEP GROOVE BALL BEARING	1	45-0818	90547-0206-CLA0
2-09	GEAR ASSY, GOVERNOR	1	45-0365	16400-Z080110-00A0
2-10	SEAL, OIL	1	45-0333	90682-Z080110-00A0

FIG.3 SPARK PLUG,CYLINDER HEAD SUBASSEMBLY



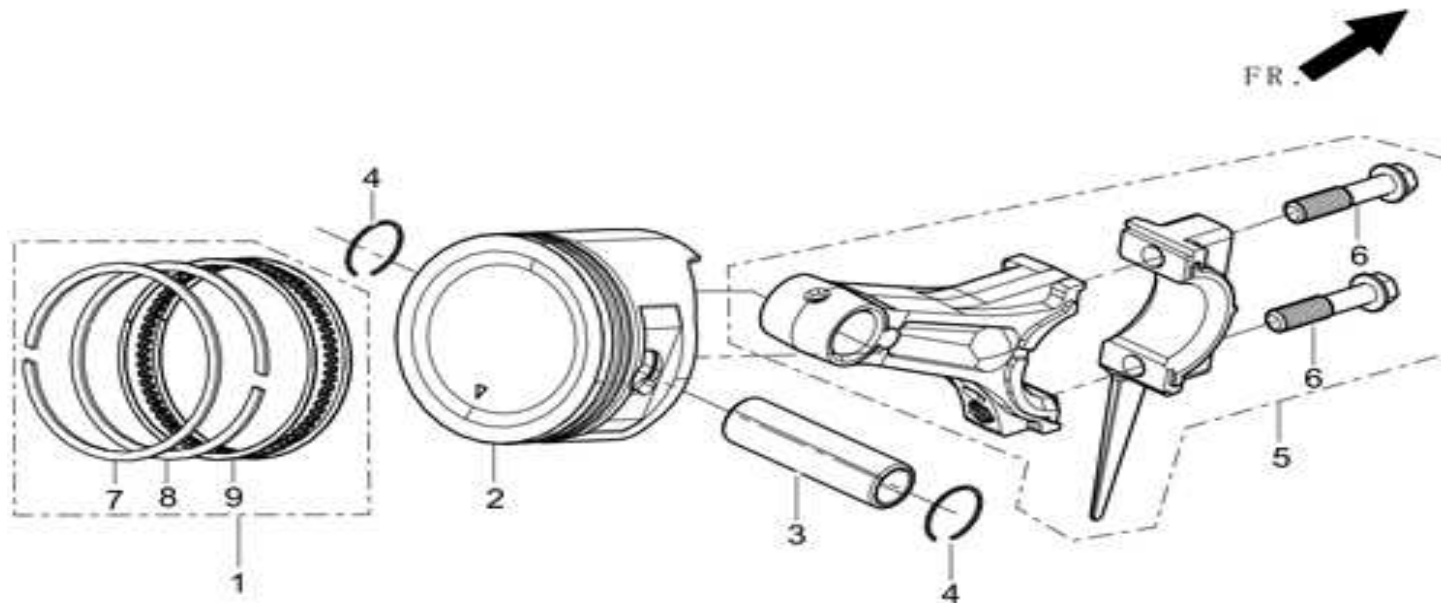
Ref #	Description	Qty	MiTM	RATO
3-01	GASKET, CYLINDER HEAD	1	45-0929	12131-Z730210-0000
3-02	COVER SUBASSEMBLY, CYLINDER HEAD	1	45-0559	12410-Z580110-0199
3-03	CYLINDER HEAD COVER GASKET	1	45-0560	12004-Z580110-0099
3-04	TUBE, BREATHER	1	45-0784	17004-Z730110-00A0
3-05	CYLINDER HEAD COVER BOLT	1	45-0562	12032-Z080111-01A0
3-06	CYLINDER HEAD COVER BOLT SEAL SET	1	45-0563	12034-Z080110-0099
3-07	STUD BOLT	2	45-0382	90204-Z080320-0000
3-08	STUD BOLT	2	45-0323	90204-Z100320-0000
3-09	POSITION PIN - TYPE A	2	45-0330	90502-1220-00A0
3-10	CYLINDER HEAD BOLT	4	45-0239	12003-Z080110-00A0
3-11	PLUG, SPARK	1	45-0310	30010-Z010210-00A0
3-12	HEAD SUBASSEMBLY, CYLINDER	1	45-0785	12140-Z730210-0BA9

FIG.4 CRANKSHAFT CONNECTING ROD



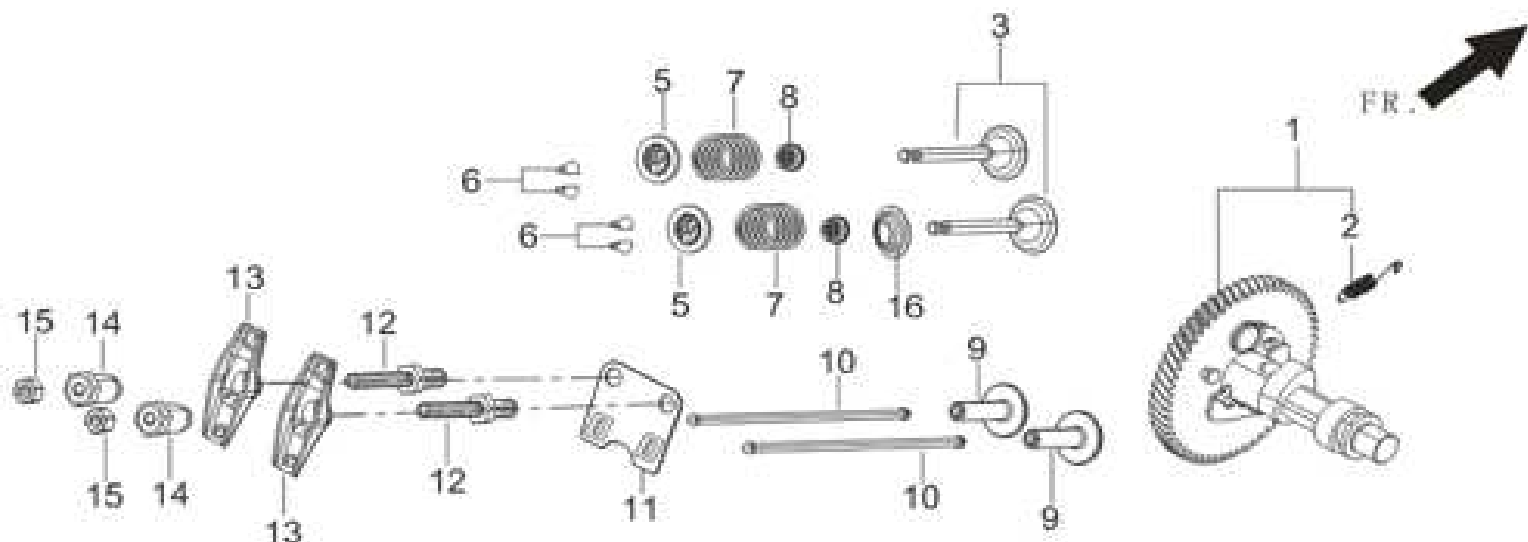
Ref #	Description	Qty	MiTM	RATO
4-01	CRANKSHAFT ASSY.	1	45-0790	13300-Z730210-00A0

FIG.5 PISTON SUBASSEMBLY



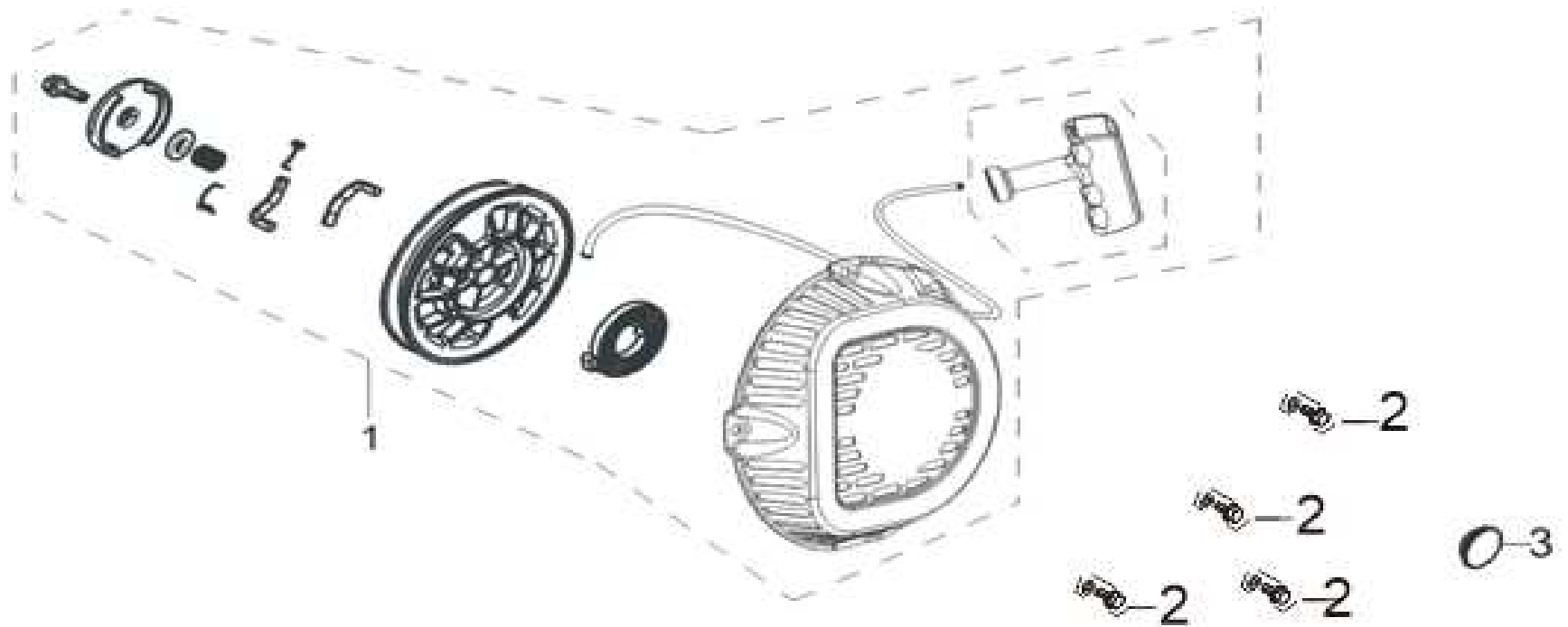
Ref #	Description	Qty	MiTM	RATO
5-01	RING ASSY, PISTON	1	45-0791	13200-Z730110-00A9
5-02	PISTON	1	45-0792	13111-Z730120-00A9
5-03	PIN, PISTON	1	45-0793	13121-Z730110-00A0
5-04	CLIP, PISTON PIN	2	45-0794	13122-Z730110-00A9
5-05	ROD, CONNECTING	1	45-0795	13010-Z730120-00A9

FIG.6 TRAIN VALVE / CAMSHAFT SUBASSEMBLY



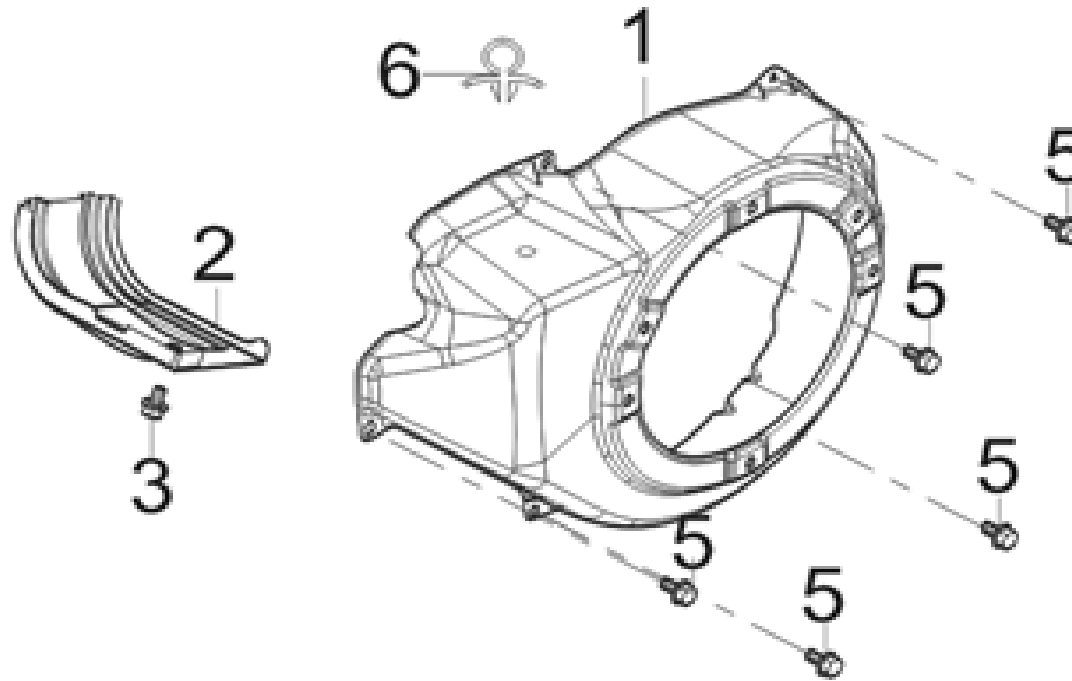
Ref #	Description	Qty	MiTM	RATO
6-01	CAMSHAFT ASSY.	1	45-0799	14200-Z730120-00A9
6-03	VALVES SET	1	45-0800	12110-Z730110-00A9
6-05	SEAT, VALVE SPRING	2	45-0803	12112-Z730110-00A0
6-06	CLAMP, VALVE LOCK	4	45-0804	12109-Z730110-00A0
6-07	SPRING, VALVE	2	45-0805	12103-Z730110-00A9
6-08	GUIDE, SEAL	2	45-0806	12101-Z020110-00A0
6-09	TAPPET, VALVE	2	45-0265	14081-Z580110-00A0
6-10	LIFTER SUBASSEMBLY, VALVE	2	45-0807	14070-Z730110-00A0
6-11	PLATE SUBASSEMBLY, LIFTER STOPPER	1	45-0266	14090-Z080110-00A0
6-12	ROCKSHAFT BOLT	2	45-0270	14313-Z010110-00A0
6-13	ROCKER, VALVE	2	45-0268	14311-Z080110-00A0
6-14	NUT, VALVE ADJUSTING	2	80-0698	14314-Z010110-00A0
6-15	NUT, VALVE LOCK	2	45-0269	14312-Z010110-00A0
6-16	RETAINER, VALVE SPRING	1	45-0245	12105-Z080110-00A0

FIG.7 RECOIL STARTER



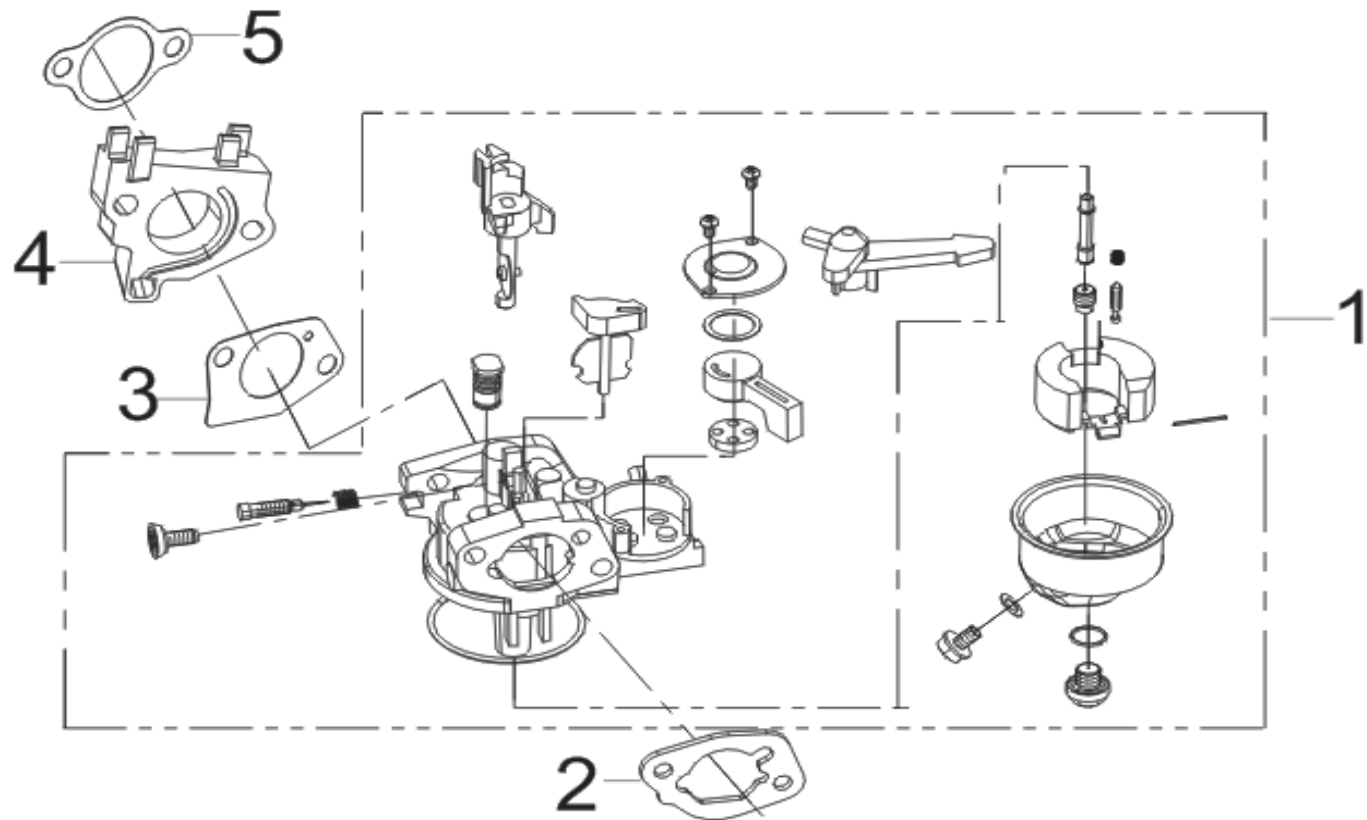
Ref #	Description	Qty	MiTM	RATO
7-01	STARTER ASSY, RECOIL	1	45-0808	28200-Z081510-H600
7-02	BOLT AND WASHER	4	45-0381	90251-0608-01A0

FIG.8 SHROUD



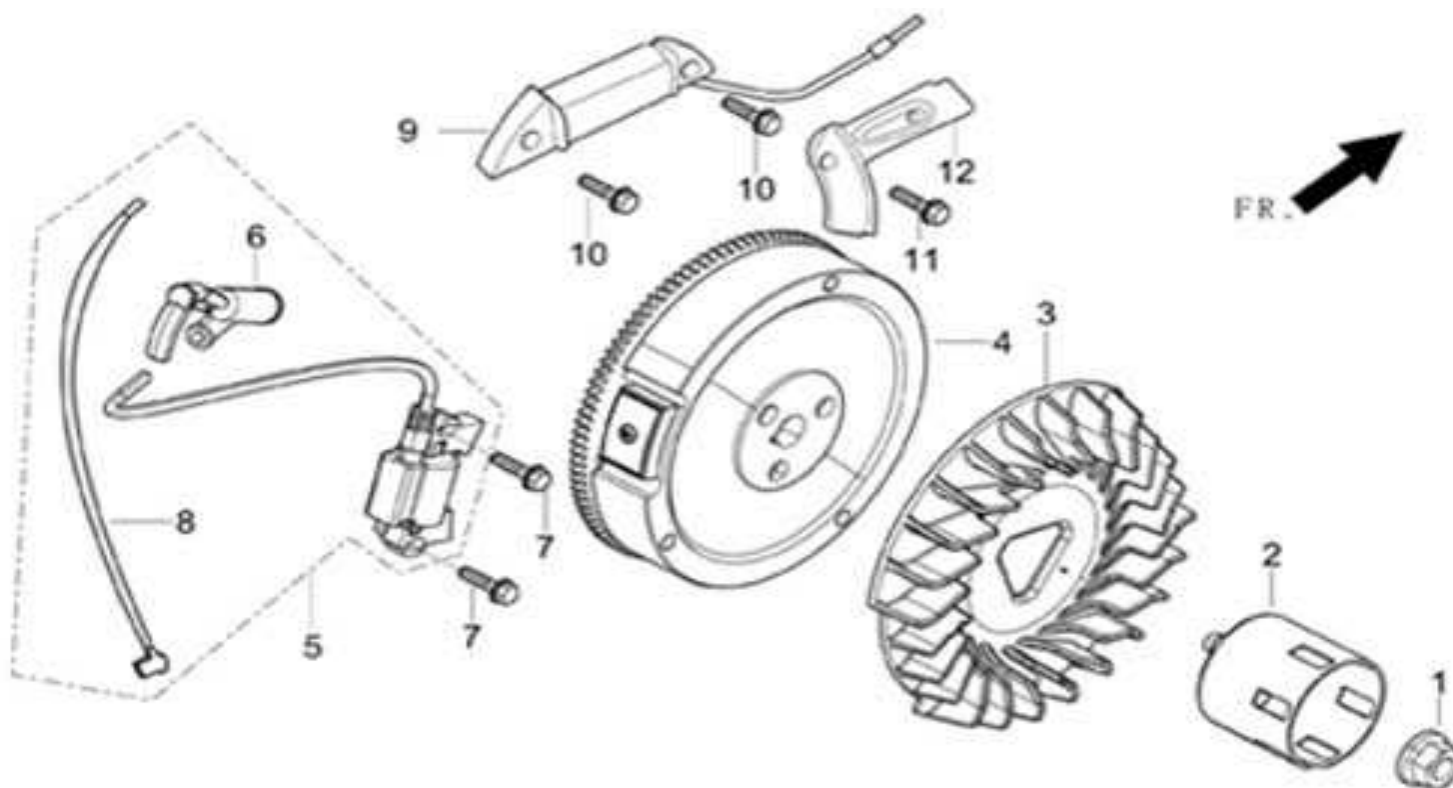
Ref #	Description	Qty	MiTM	RATO
8-01	SHROUD	1	45-0378	28110-Z080410-H600
8-02	SHROUD, CYLINDER BODY	1	45-0375	19304-Z080110-0000
8-03	BOLT	1	80-0405	90001-0612-01A0
8-05	BOLT	5	80-0405	90001-0612-01A0
8-06	WIRE CLIP	1	45-0336	90684-Z080110-00A0

FIG.9 CARBURETOR ASSEMBLY



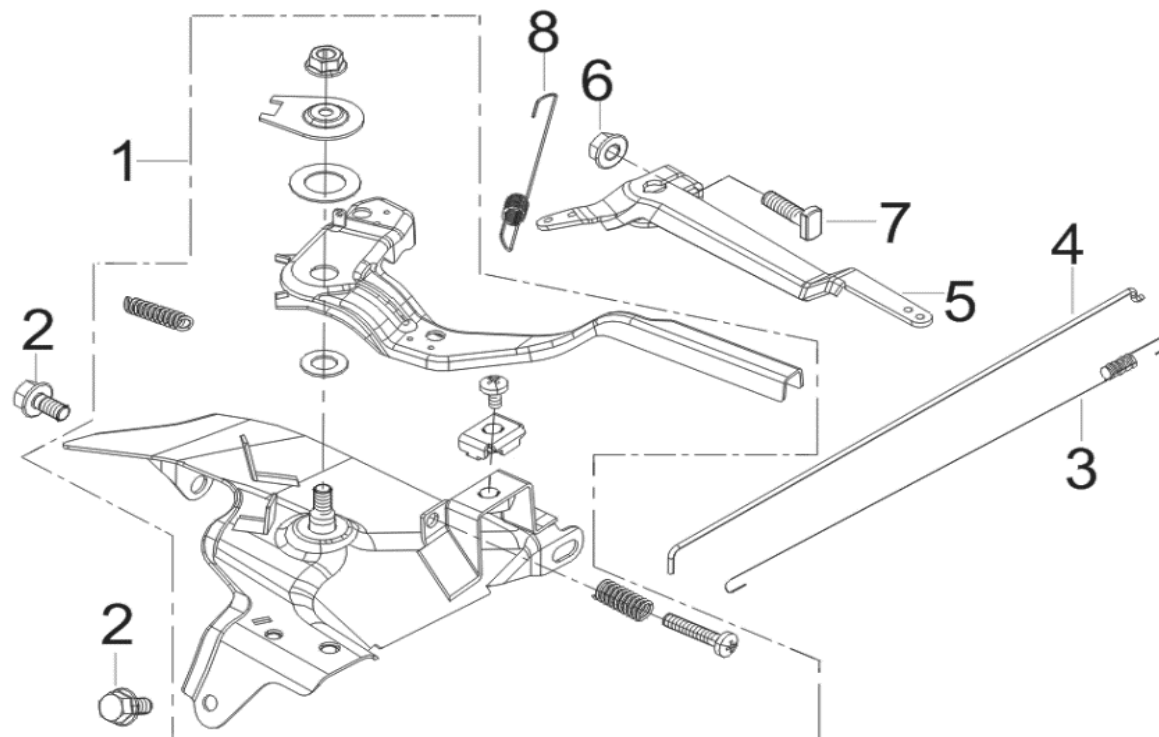
Ref #	Description	Qty	MiTM	RATO
9-01	CARBURETOR ASSY. (BEFORE SERIAL NUMBER: A223001964)	1	45-0930	16100-Z730110-00M0
9-01	CARBURETOR ASSY. (AFTER SERIAL NUMBER: A223001964)	1	45-1103	16100-Z730310-00M0
9-02	AIR CLEANER SEAL GASKET	1	45-0295	17001-Z080210-0000
9-03	CARBURETOR SEAL GASKET	1	45-0358	16001-Z080110-0000
9-33	PLATE, CARBURETOR INSULATOR	1	45-0811	16003-Z730110-00A0
9-34	GASKET, INLET	1	45-0368	17002-Z080110-0000

FIG.10 FLYWHEEL / IMPELLER / STARTER PULLEY / IGNITION COIL



Ref #	Description	Qty	MiTM	RATO
10-01	NUT, FLYWHEEL	1	45-0262	13501-Z080110-00A0
10-02	PULLEY, STARTER	1	45-0377	28002-Z080310-0000
10-03	IMPELLER	1	45-0376	19352-Z080110-00A0
10-04	FLYWHEEL SUBASSEMBLY	1	45-0910	13510-Z160110-00A0
10-05	COIL, IGNITION	1	45-0911	30400-Z310311-0000
10-07	HEX SOCKET FLANGE FACE BOLT	2	80-0400	90001-0628-01A0
10-09	COIL SUBASSEMBLY, CHARGE	1	45-0441	30140-Z160130-0000
10-10	HEX SOCKET FLANGE FACE BOLT	2	80-0400	90001-0628-01A0
10-11	HEX SOCKET FLANGE FACE BOLT	1	45-0533	90001-0610-01A0
10-12	CLAMP, CHARGE COIL	1	450912	30001-Z160110-0000

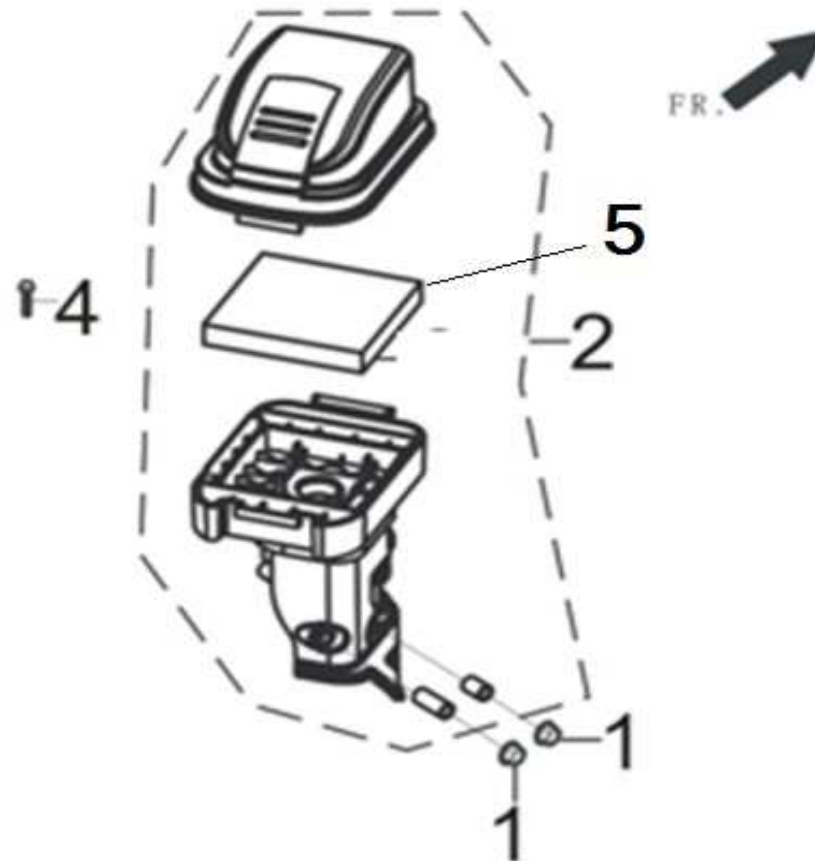
FIG.11 THROTTLE CONTROL ASSEMBLY



Ref #	Description	Qty	MiTM	RATO
11-01	CONTROL ASSY, THROTTLE	1	45-0931	16520-Z080320-0000
11-02	BOLT	2	80-0405	90001-0612-01A0
11-03	SPRING, THROTTLE VALVE RETURNING	1	45-0277	16012-Z080110-00A0
11-04	ROD, GOVERNEOR	1	45-0361	16062-Z080110-00A0
11-05	GOVERNOR BRACKET SUBASSEMBLY	1	45-0363	16070-Z080110-0000
11-06	HEXAGON NUT WITH FLANGE	1	80-0469	90305-0600-31A0
11-07	BOLT, GOVERNOR SUPPORT	1	45-0282	16072-Z010110-00A0
11-08	SPRING, GOVERNOR	1	45-0924	16063-Z080310-00A0

FIG.12 AIR CLEANER

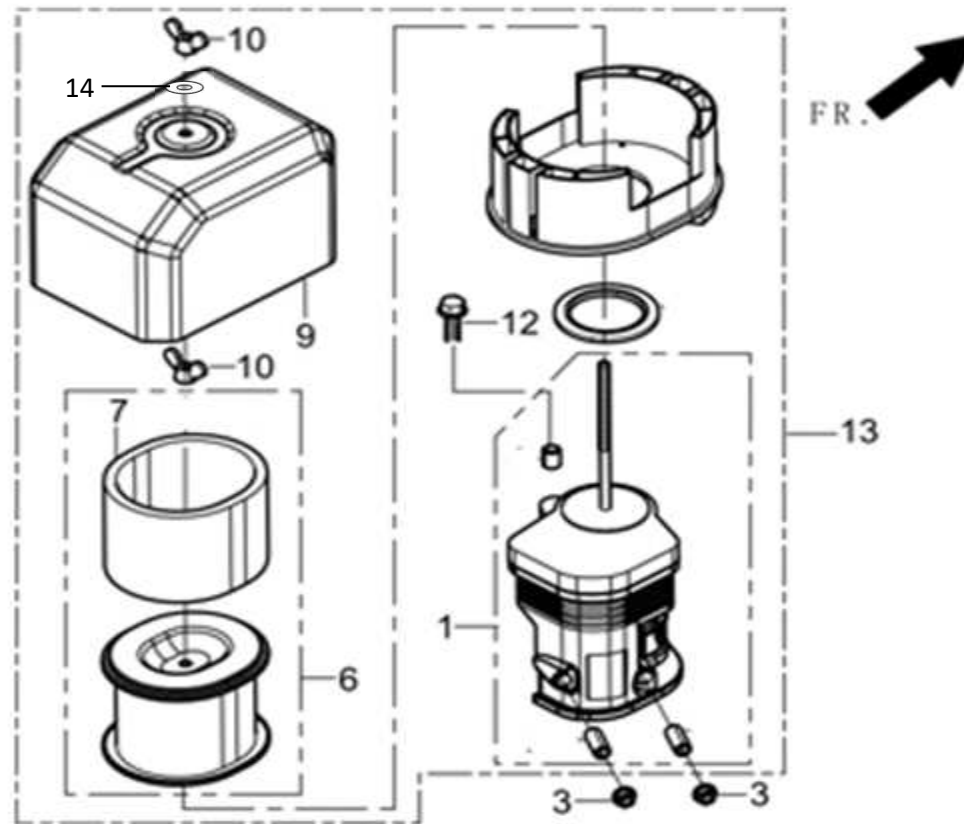
**BEFORE SERIAL
NUMBER: A223001964**



Ref #	Description	Qty	MiTM	RATO
12-01	HEXAGON NUT WITH FLANGE	2	80-0469	90305-0600-31A0
12-02	AIR CLEANER	1	45-0812	17100-Z580120-0000
12-04	BOLT	1	45-0915	90007-0630-A1A0
12-05	AIR FILTER ELEMENT	1	45-0387	17151-Z580110-0000

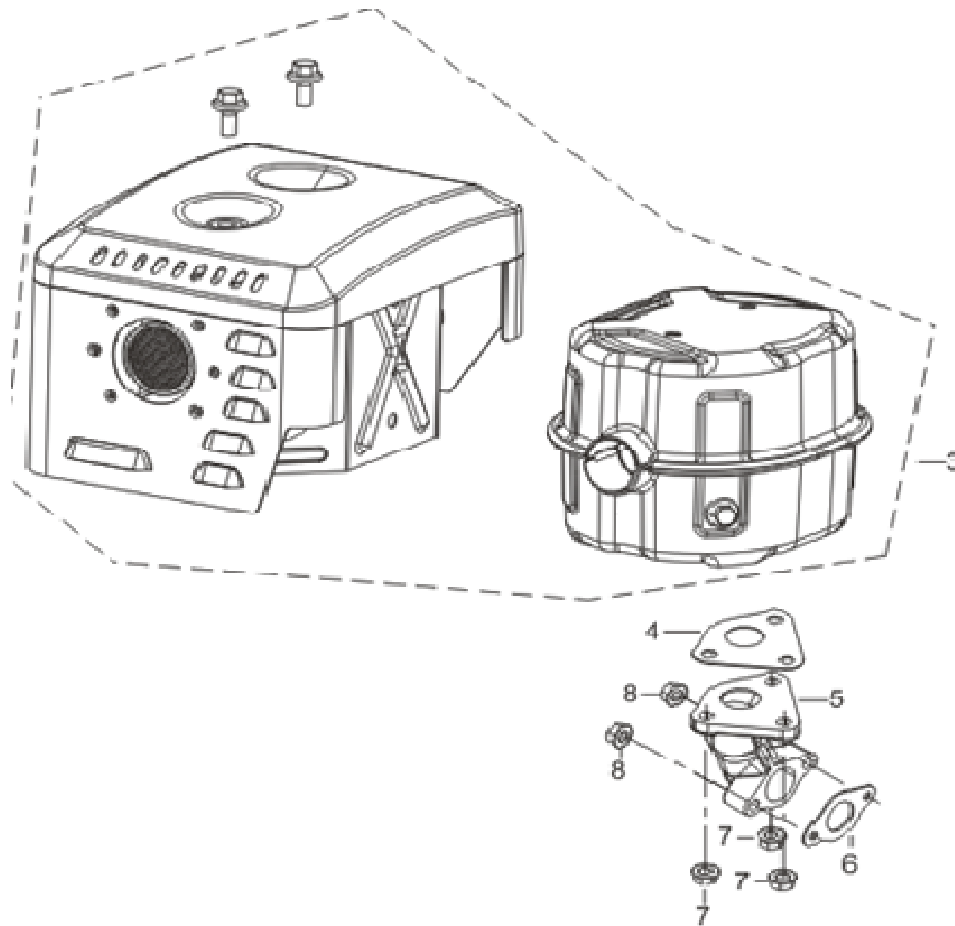
FIG.13 AIR CLEANER

**AFTER SERIAL
NUMBER: A223001964**



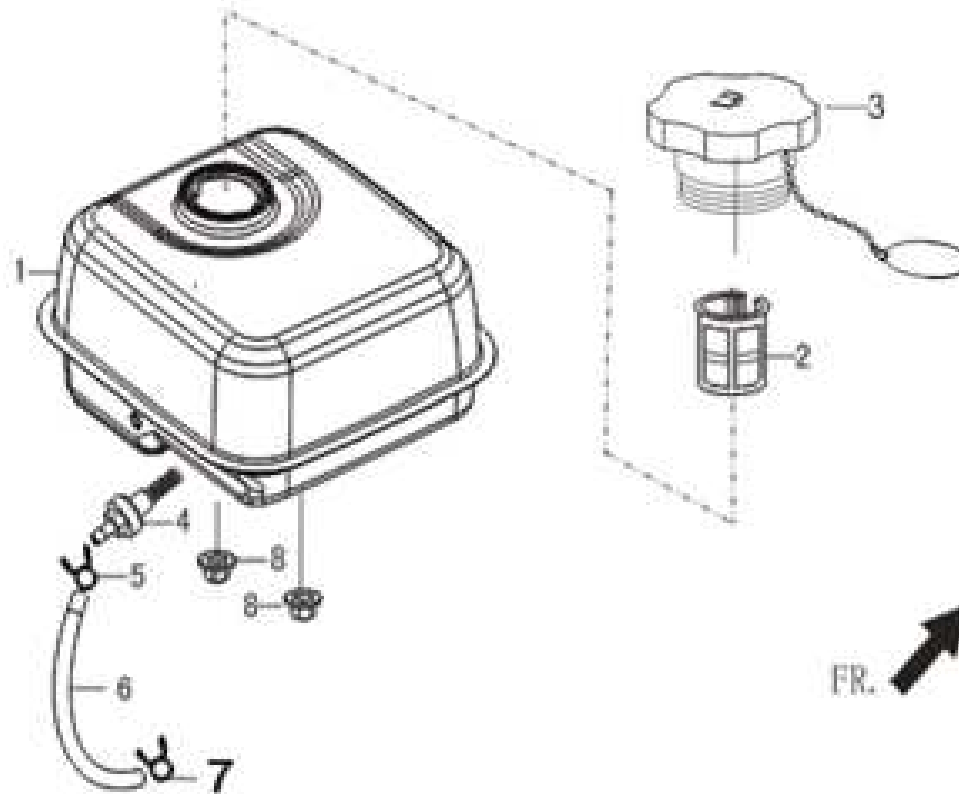
Ref #	Description	Qty	MiTM	RATO
13-03	HEXAGON NUT WITH FLANGE	2	80-0469	90305-0600-31A0
13-06	AIR FILTER - 300CC	1	45-0906	17150-Z080110-0000
13-09	AIR FILTER COVER - 300CC	1	45-0907	17104-Z080210-0000
13-10	BUTTERFLY NUT - STAMPED	2	45-0905	90312-0600-33
13-12	BOLT	1	45-0896	90007-0620-A1A0
13-13	AIR FILTER ASSEMBLY - 300CC	1	45-0908	17100-Z080210-0000
13-14	SEALING WASHER - 1/4" NEOPRENE	1	28-1072	N/A

FIG.14 MUFFLER ASSEMBLY



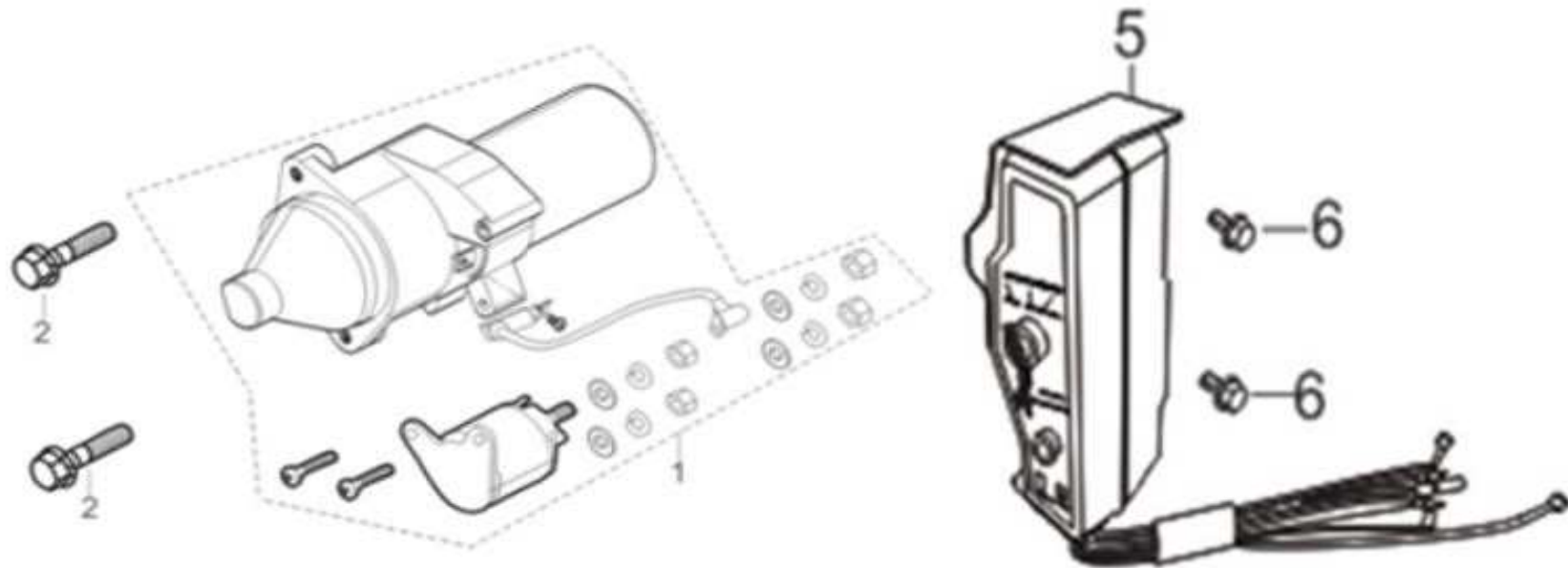
Ref #	Description	Qty	MiTM	RATO
14-03	MUFFLER ASSY.	1	45-0814	18100-Z580110-0000
14-04	GASKET, MUFFLER	1	45-0371	18101-Z080110-00A0
14-05	PIPE, EXHAUST	1	45-0439	18150-Z080210-00A0
14-06	GASKET, EXHAUST OUTLET	1	45-0435	18001-Z190110-00A0
14-07	HEXAGON NUT WITH FLANGE	3	45-1114	90332-Z1F0110-00A0
14-08	HEXAGON NUT WITH FLANGE	2	45-1114	90332-Z1F0110-00A0

FIG.15 FUEL TANK ASSEMBLY



Ref #	Description	Qty	MiTM	RATO
15-01	FUEL TANK	1	45-0413	16620-Z310410-H60P
15-02	STRAINER, FUEL	1	45-0411	16652-Z010710-00A0
15-03	COVER, FUEL TANK	1	45-0932	16730-Z310310-00A0
15-04	OUTLET SUBASSEMBLY, FUEL TANK OIL	1	45-0933	16680-Z010210-0000
15-05	PIPE CLAMP	1	45-0949	90685-D080-0EA0
15-06	TUBE, FUEL	1	45-0934	90686-Z080510-00M0
15-07	PIPE CLAMP	1	45-0935	90685-D085-0EA0
15-08	HEXAGON NUT WITH FLANGE	2	80-0583	90305-0800-31A0

FIG.16 MOTOR STARTER ASSEMBLY



Ref #	Description	Qty	MiTM	RATO
16-01	STARTING MOTOR ASSEMBLY	1	45-0913	09100-Z160210-0001
16-02	HEXAGON SOCKET FLANGE FACE BOLT	2	80-0582	90001-0840-01A0
16-05	CONTROL SWITCH	1	45-0914	35000-Z160130-H701
16-06	HEXAGON SOCKET FLANGE FACE BOLT	2	80-0405	90001-0612-01A0
-	ENGINE STARTING KEY	2	45-1149	35302-Z160110-0000