

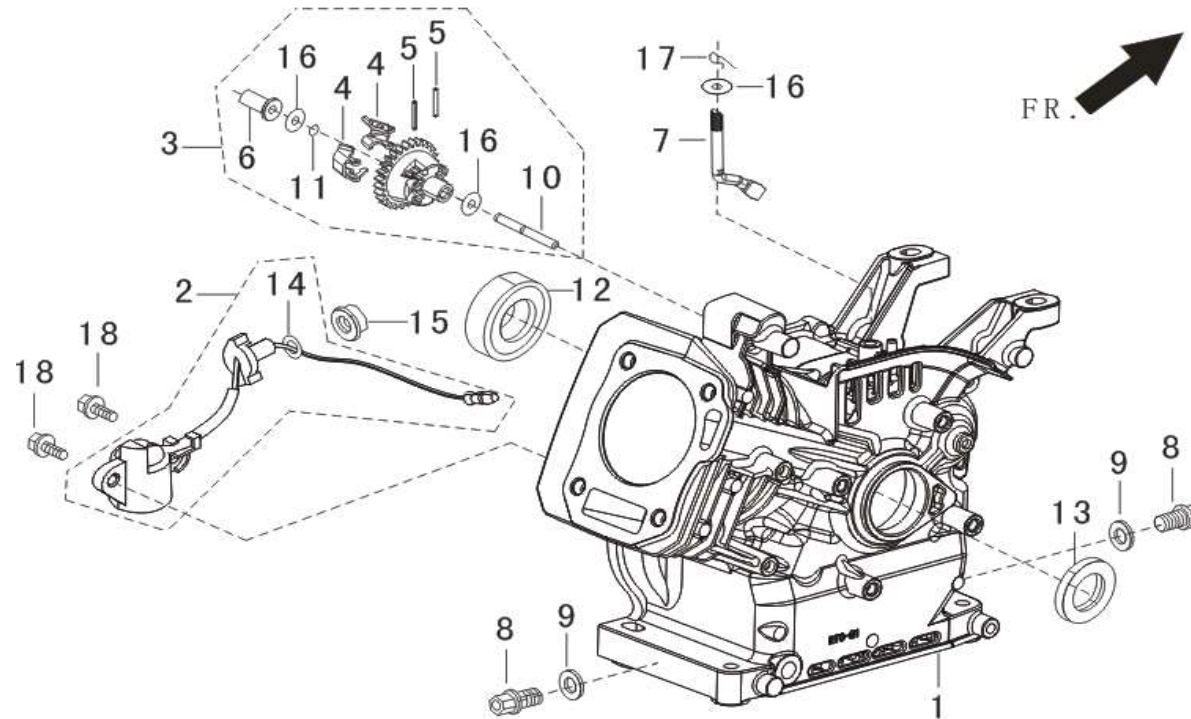
1-0262 Engine 212cc Electric Start

For parts Call 888-279-9274

VENDOR:	RATO
MODEL:	R-212 50 STATE

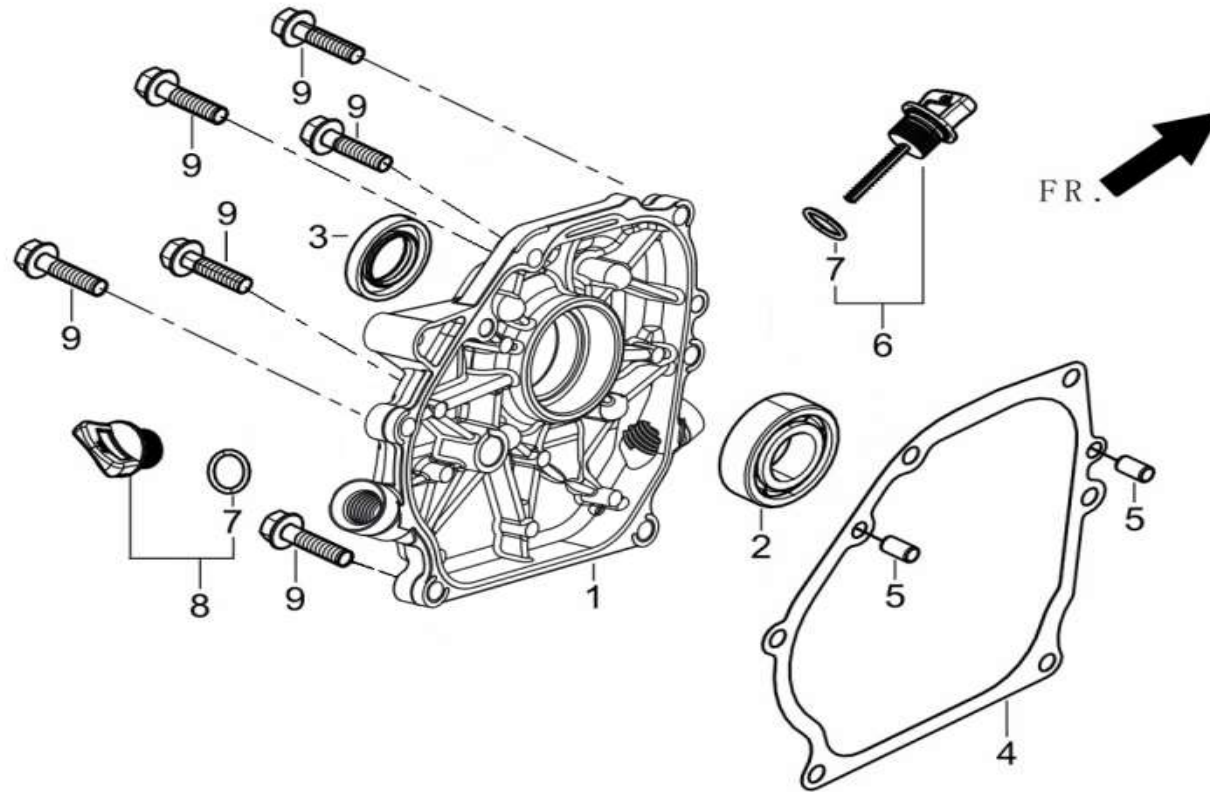
DATE:	DESCRIPTION:	BY:
10/6/22	ADD NEW AIR FILTER & SHOW WASHER UNDER WING NUT	JJR
2/21/23	45-0920, 17140-Z440210-0000, ELBOW SUBASSEMBLY, AIR CLEANER NOW OBSOLETE	JJR
5/20/24	ADDED A KEY FOR THE STARTER	JJR

FIG.1 CRANKCASE/GOVERNOR GEAR ASSEMBLY



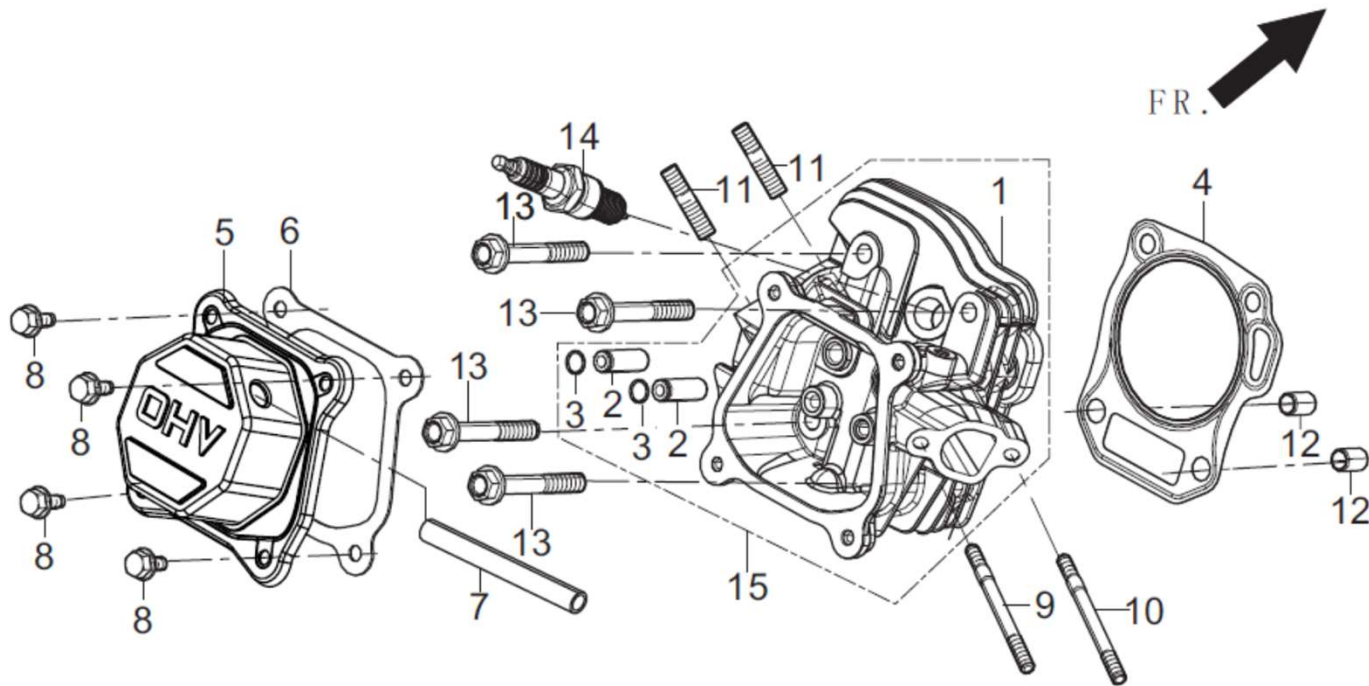
Ref #	Description	Qty	MiTM	RATO
1-01	CRANKCASE SUBASSEMBLY.	1	45-0936	11310-Z530420-00A9
1-02	SENSOR, ENGINE OIL	1	45-0474	37060-Z010120-0000
1-03	GEAR ASSY, GOVERNOR	1	45-0475	16400-Z010110-00A0
1-07	ARM, GOVERNOR	1	45-0476	16061-Z010110-00A0
1-08	BOLT, DRAIN PLUG	2	45-0477	11007-Z010110-00A0
1-09	WASHER, FLAT	2	45-0530	90408-Z010110-00A0
1-12	DEEP GROOVE BALL BEARING	1	45-0478	90547-0205-CLA0
1-13	SEAL, OIL	1	45-0479	90682-Z300110-00A0
1-15	HEXAGON NUT WITH FLANGE	1	80-0396	90305-Z010210-01A0
1-16	WASHER, FLAT	1	45-0480	90408-Z010210-00A0
1-17	COTTER PIN	1	45-0328	90501-Z010110-0000
1-18	BOLT	2	80-0372	90001-0614-01A0

FIG.2 CRANKCASE COVER SUBASSEMBLY



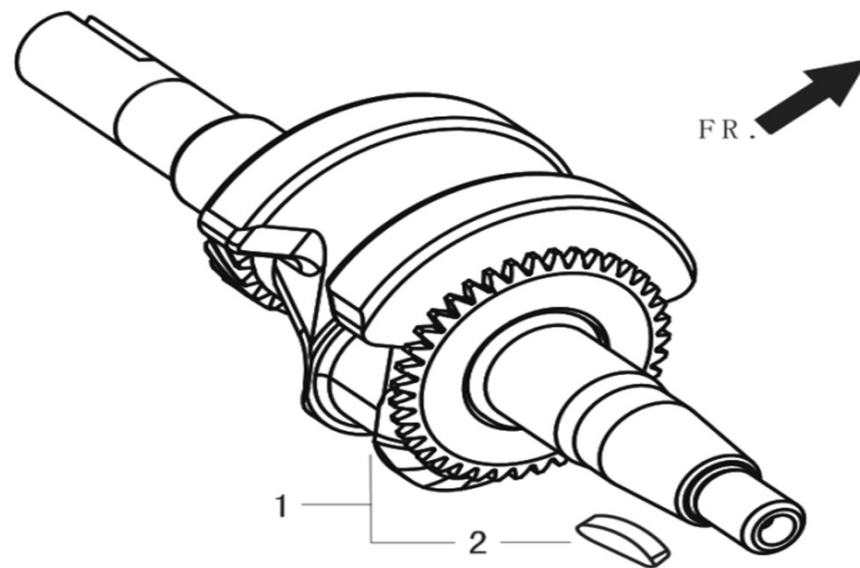
Ref #	Description	Qty	MiTM	RATO
2-01	COVER, CRANKCASE	1	45-0937	11411-Z440410-00A0
2-02	DEEP GROOVE BALL BEARING	1	45-0478	90547-0205-CLA0
2-03	SEAL, OIL	1	45-0479	90682-Z300110-00A0
2-04	GASKET, CRANKCASE	1	45-0482	11001-Z440110-00A0
2-05	POSITION PIN - TYPE A	2	45-0329	90502-0912-00A0
2-06	DIPSTICK SUBASSEMBLY, OIL	1	45-0838	15010-Z010130-Q500
2-08	PLUG SUBASSEMBLY, ENGINE OIL	1	45-0938	15030-Z010130-Q500
2-09	HEX SOCKET FLANGE FACE BOLT	6	80-0410	90001-0832-01A0

FIG.3 SPARK PLUG,CYLINDER HEAD SUBASSEMBLY



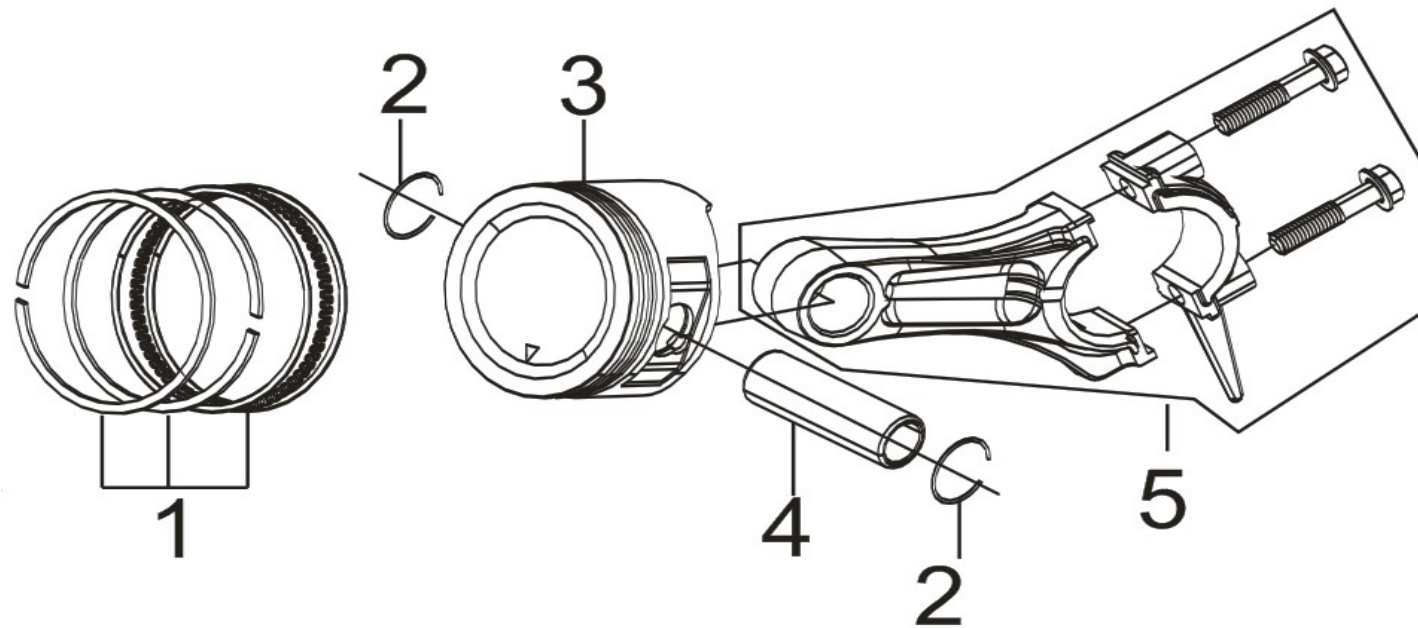
Ref #	Description	Qty	MITM	RATO
3-04	GASKET, CYLINDER HEAD	1	45-0463	12131-Z950110-00A0
3-05	CYLINDER HEAD COVER SUBASSEMBLY	1	45-0536	12410-Z440110-0099
3-06	CYLINDER HEAD COVER GASKET	1	45-0537	12004-Z440110-00A0
3-07	TUBE, BREATHER	1	45-0538	17004-Z010310-00A0
3-08	HEX SOCKET FLANGE FACE BOLT	4	80-0405	90001-0612-01A0
3-09	STUD BOLT	1	45-0467	90204-Z010310-0000
3-10	STUD BOLT	1	45-0684	90207-Z330210-0000
3-11	STUD BOLT	2	45-0468	90203-Z010110-0000
3-12	POSITION PIN - TYPE A	2	80-0421	90502-1114-00A0
3-13	CYLINDER HEAD BOLT	4	80-0415	12003-Z010110-00A0
3-14	PLUG, SPARK	1	80-0414	30010-Z010110-00A0
3-15	HEAD SUBASSEMBLY, CYLINDER	1	45-0540	12140-Z810210-00A0

FIG.4 CRANKSHAFT CONNECTING ROD



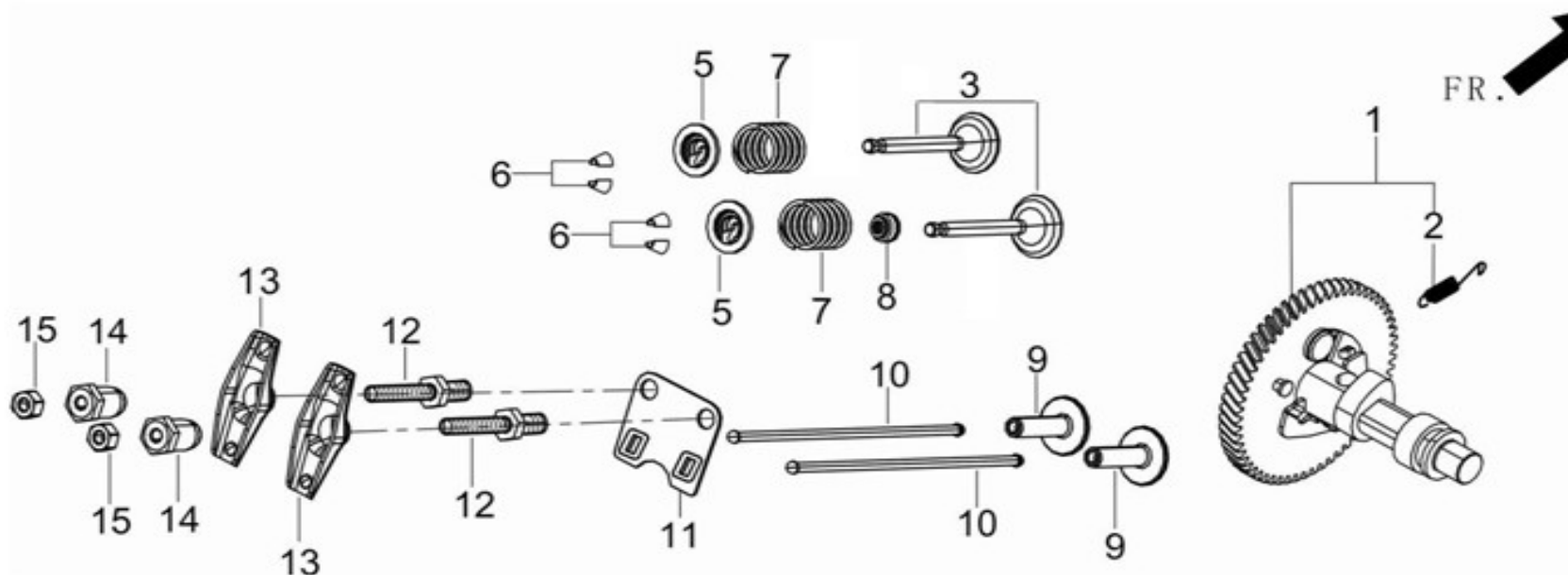
Ref #	Description	Qty	MiTM	RATO
4-01	CRANKSHAFT ASSY.	1	45-0484	13300-Z530210-00A1

FIG.5 PISTON SUBASSEMBLY



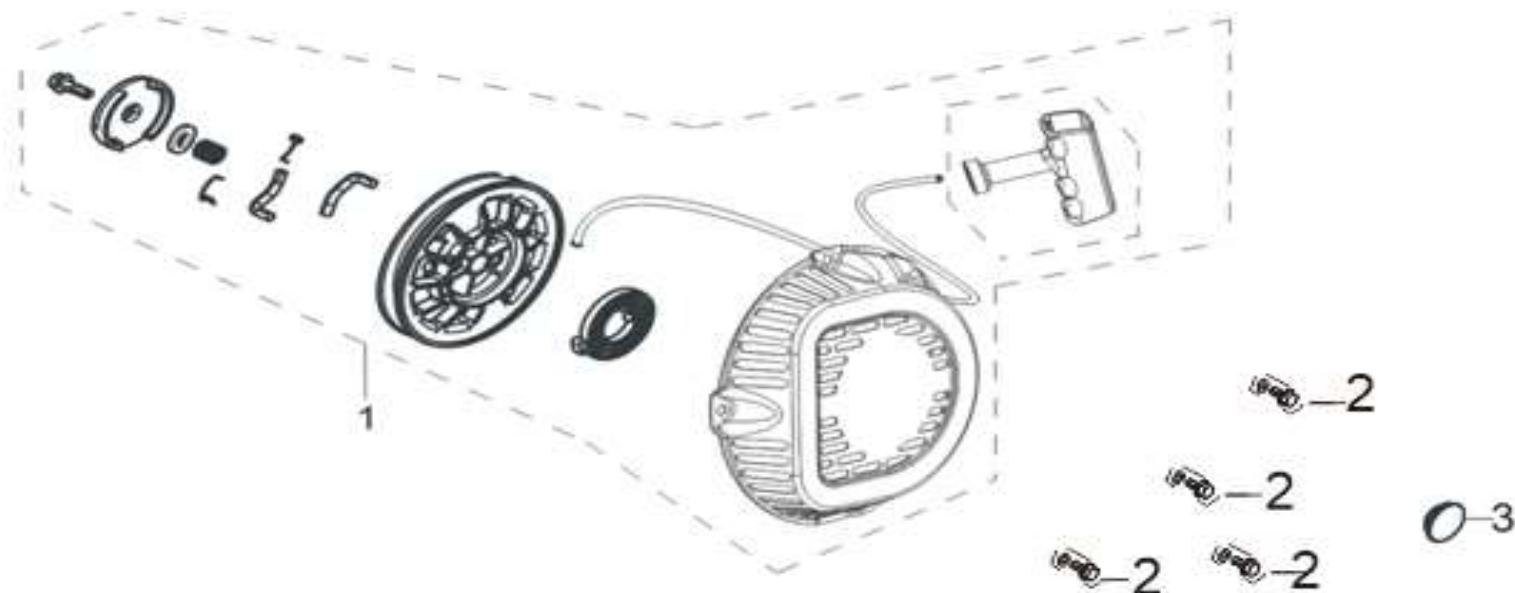
Ref #	Description	Qty	MITM	RATO
5-01	RING ASSY, PISTON	1	45-0843	13200-Z140210-00A9
5-02	CLIP, PISTON PIN	2	80-0696	13122-Z010110-00A0
5-03	PISTON	1	45-0485	13111-Z140220-00A9
5-04	PIN, PISTON	1	45-0486	13121-Z010110-00A0
5-05	ROD, CONNECTING	1	45-0487	13010-Z440210-00A9

FIG.6 TRAIN VALVE / CAMSHAFT SUBASSEMBLY



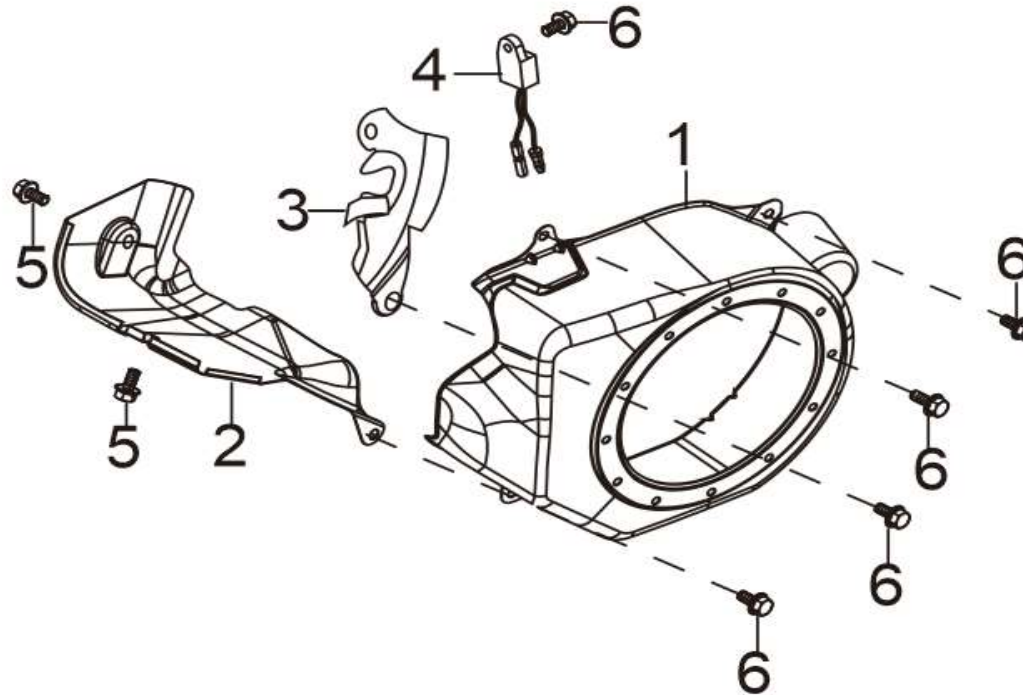
Ref #	Description	Qty	MiTM	RATO
6-01	CAMSHAFT ASSY.	1	45-0491	14200-Z530110-00A9
6-03	VALVES SET	1	45-0845	12110-Z810120-00A9
6-05	SEAT, VALVE SPRING	2	80-0435	12112-Z810210-00A0
6-06	CLAMP, VALVE LOCK	4	45-0547	12109-Z810110-00A0
6-07	SPRING, VALVE	2	45-0501	12103-Z030110-00A0
6-08	GUIDE, SEAL	1	45-0548	12101-Z810210-00A0
6-09	TAPPET, VALVE	2	45-0497	14081-Z040110-00A0
6-10	LIFTER, VALVE	2	45-0498	14071-Z440110-00A0
6-11	LIFTER STOPPER PLATE	1	45-0499	14090-Z010110-00A0
6-12	ROCKSHAFT BOLT	2	45-0270	14313-Z010110-00A0
6-13	ROCKER, VALVE	2	45-0500	14311-Z010110-00A0
6-14	NUT, VALVE ADJUSTING	2	45-0271	14312-Z010110-00A0
6-15	NUT, VALVE LOCK	2	45-0269	14312-Z010110-00A0

FIG.7 RECOIL STARTER



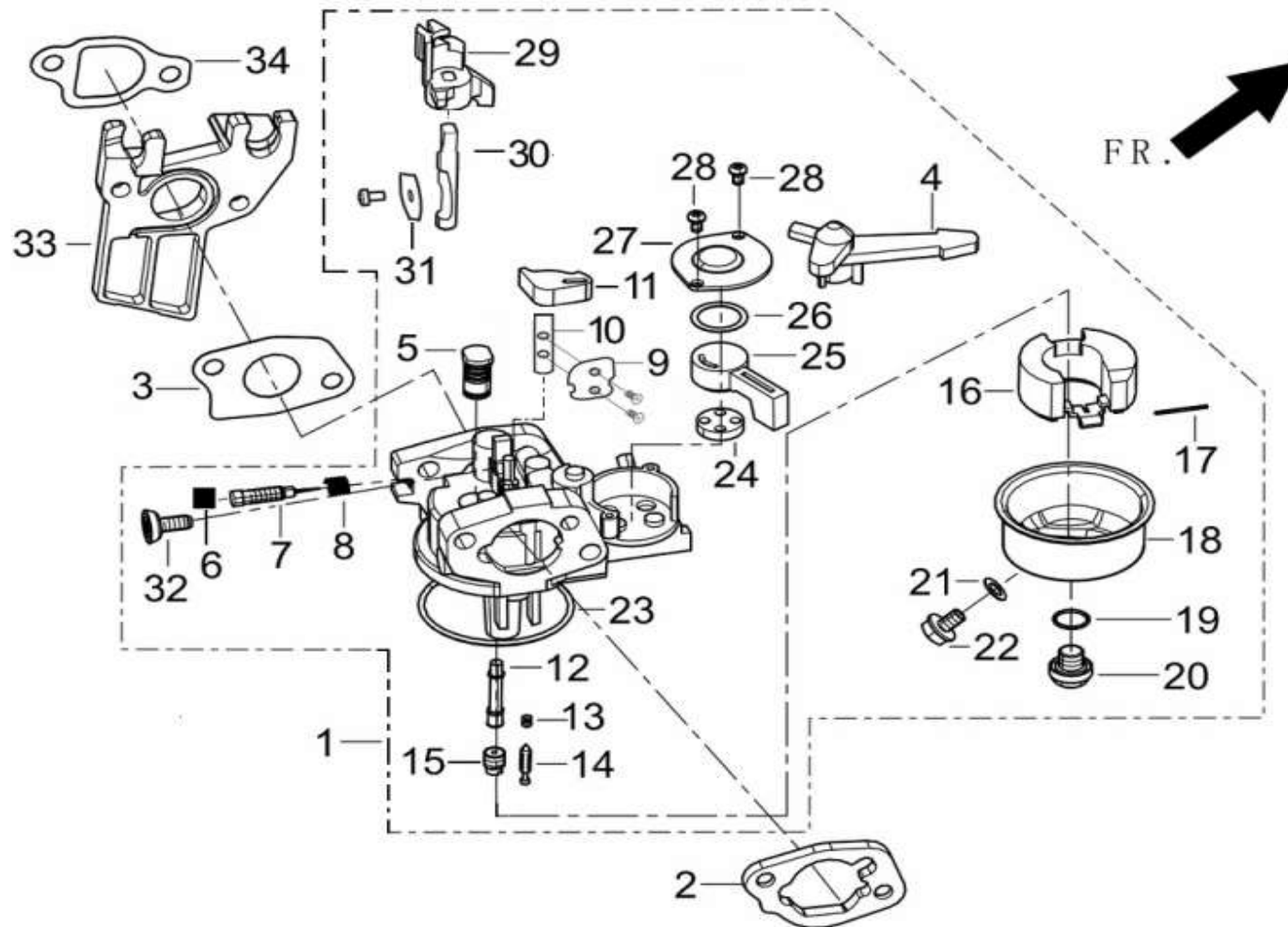
Ref #	Description	Qty	MiTM	RATO
7-01	STARTER ASSY, RECOIL	1	45-0502	28200-Z011510-H600
7-02	BOLT AND WASHER	4	45-0381	90251-0608-01A0
7-03	PLUG, END	1	45-0916	90722-Z010610-0000

FIG.8 SHROUD



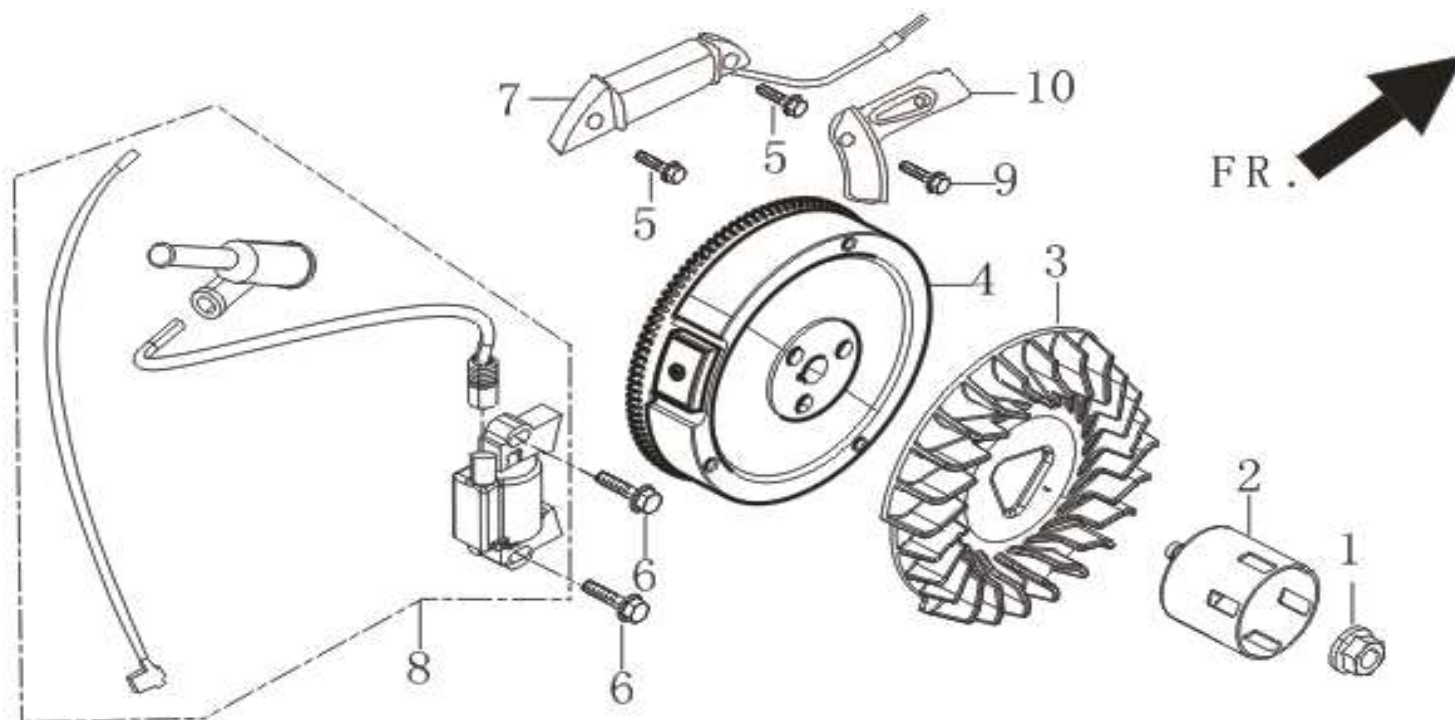
Ref #	Description	Qty	MiTM	RATO
8-01	SHROUD	1	45-0939	28110-Z010310-H600
8-02	SHROUD, CYLINDER BODY	1	45-0940	19304-Z010610-0000
8-03	SHIELD, LOWER	1	45-0917	19340-Z050120-0000
8-04	PROTECTOR, OIL	1	45-0313	37050-Z010210-0000
8-05	BOLT	2	45-0533	90001-0610-01A0
8-06	BOLT	5	80-0405	90001-0612-01A0

FIG.9 CARBURETOR ASSEMBLY



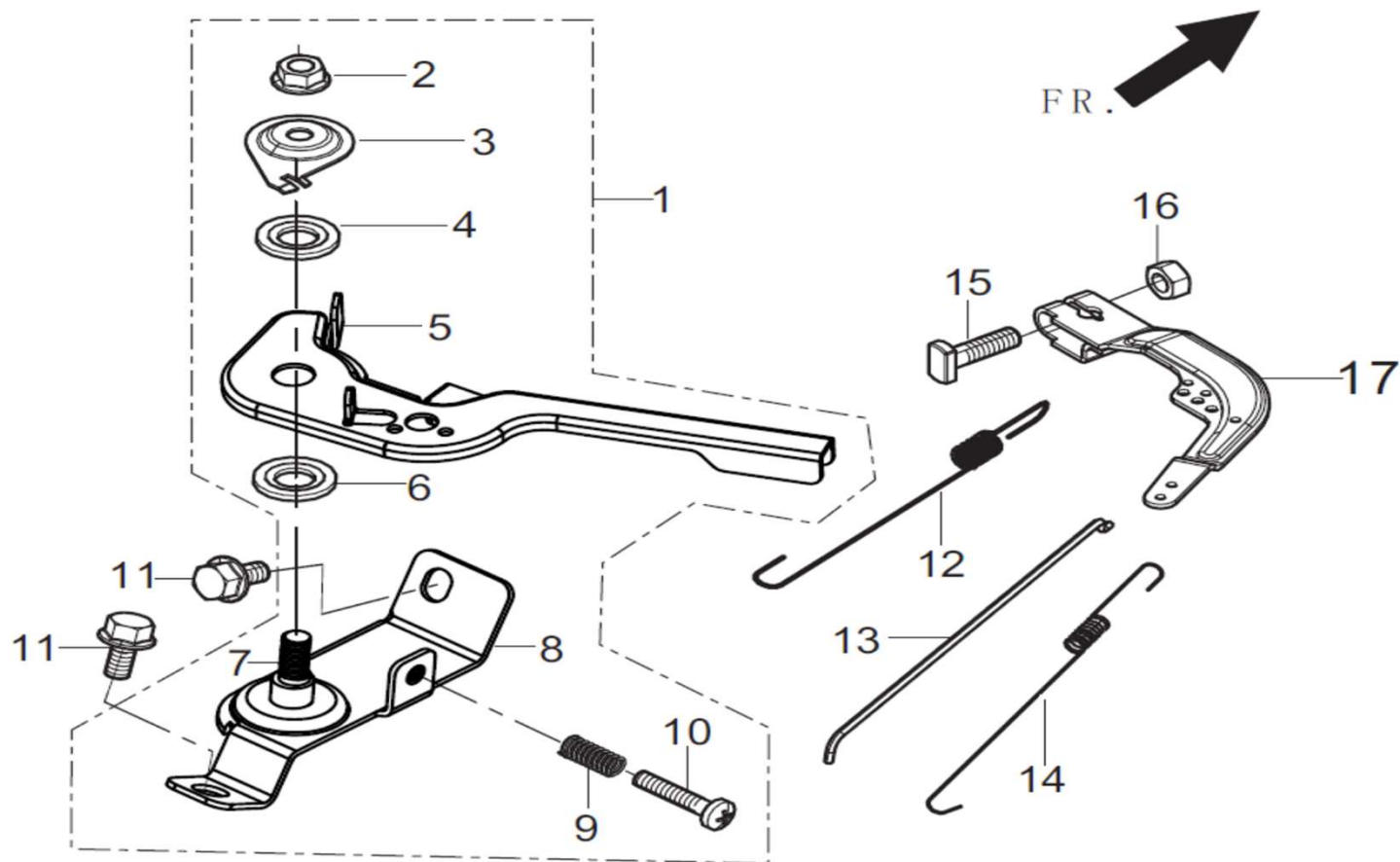
Ref #	Description	Qty	MiTM	RATO
9-01	CARBURETOR ASSY.	1	45-0941	16100-Z530610-00M0
9-02	AIR CLEANER SEAL GASKET	1	45-0509	17001-Z010210-0000
9-03	CARBURETOR SEAL GASKET	1	45-0201	16001-Z010110-0000
9-33	PLATE, CARBURETOR INSULATOR	1	45-0510	16003-Z010110-00A0
9-34	GASKET, CARBURETOR INSULATOR	1	45-0851	16002-Z010110-0000

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



Ref #	Description	Qty	MiTM	RATO
10-01	NUT, FLYWHEEL	1	80-0455	13501-Z010110-00A0
10-02	PULLEY,STARTER	1	45-0521	28002-Z010310-0000
10-03	IMPELLER	1	45-0522	19352-Z440110-00A0
10-04	FLYWHEEL SUBASSEMBLY	1	45-0942	13510-Z440310-00A0
10-05	HEX SOCKET FLANGE FACE BOLT	2	80-0400	90001-0628-01A0
10-06	HEX SOCKET FLANGE FACE BOLT	2	80-0467	90001-0625-01A0
10-07	COIL SUBASSEMBLY, CHARGE	1	45-0441	30140-Z160130-00A0
10-08	COIL, IGNITION	1	45-0943	30400-Z440410-0000
10-09	HEX SOCKET FLANGE FACE BOLT	1	45-0533	90001-0610-01A0
10-10	CLAMP, CHARGE COIL	1	45-0918	30001-Z200110-00A0

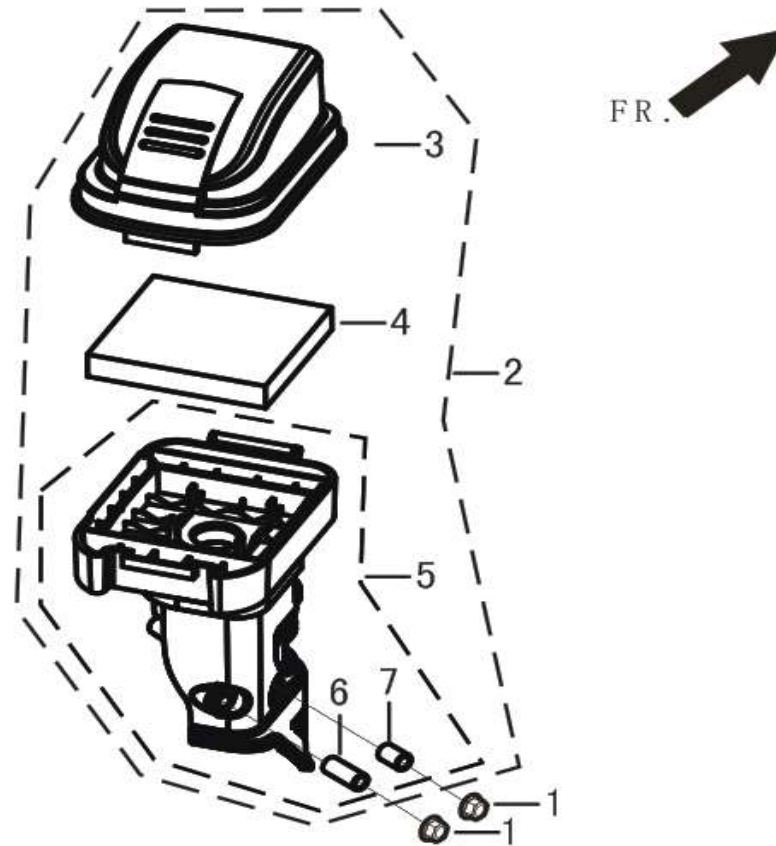
FIG.11 THROTTLE CONTROL ASSEMBLY



Ref #	Description	Qty	MITM	RATO
11-01	CONTROL ASSY, THROTTLE	1	45-0944	16520-Z010430-0001
11-11	BOLT	2	45-0533	90001-0610-01A0
11-12	SPRING, GOVERNOR	1	45-0945	16063-Z050410-00A0
11-13	ROD, GOVERNEOR	1	45-0527	16062-Z010110-00A0
11-14	SPRING, THROTTLE VALVE RETURNING	1	45-0528	16012-Z010110-00A0
11-15	BOLT, GOVERNOR SUPPORT	1	45-0282	16072-Z010110-00A0
11-16	HEXAGON NUT WITH FLANGE	1	80-0469	90305-0600-31A0
11-17	GOVERNOR BRACKET SUBASSEMBLY	1	45-0529	16070-Z010110-00A0

FIG.12 AIR CLEANER

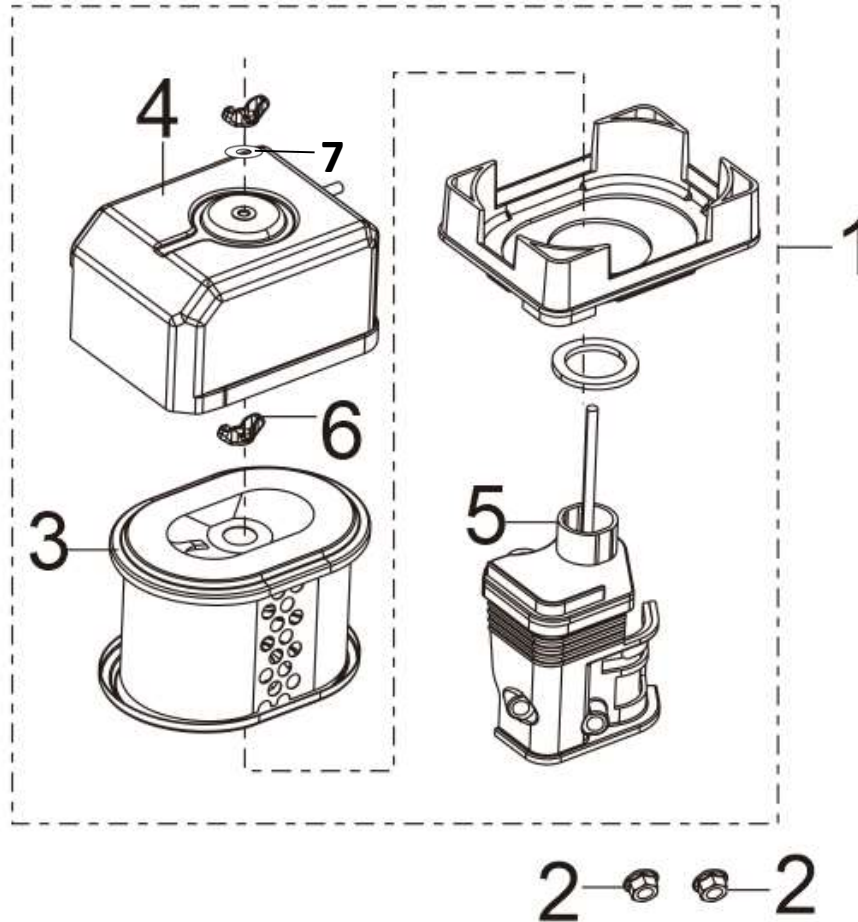
**BEFORE SERIAL
NUMBER: PENDING**



Ref #	Description	Qty	MiTM	RATO
12-01	HEXAGON NUT WITH FLANGE	2	80-0469	90305-0600-31A0
12-02	AIR CLEANER	1	45-0946	17100-Z440220-0099
12-03	COVER, AIR CLEANER CASE	1	45-0919	17104-Z440110-0000
12-04	ELEMENT, AIR CLEANER	1	45-0686	17151-Z440110-0000
12-05	ELBOW SUBASSEMBLY, AIR CLEANER	1	N/A	N/A

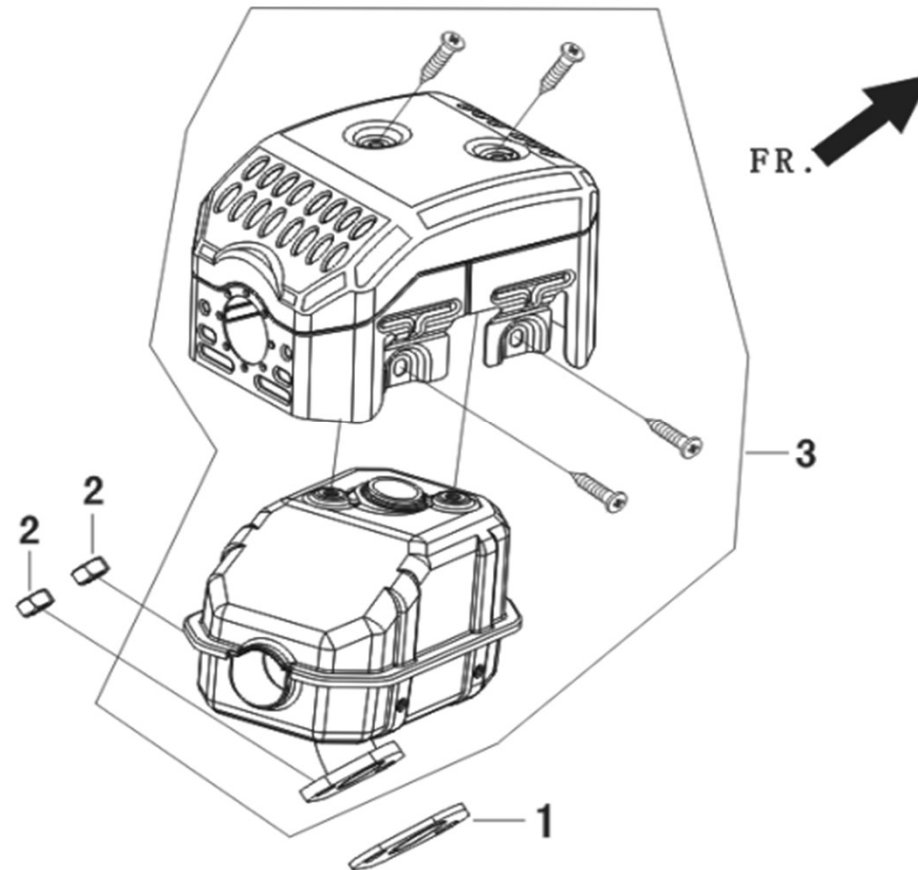
FIG.13 AIR CLEANER

**AFTER SERIAL
NUMBER: PENDING**



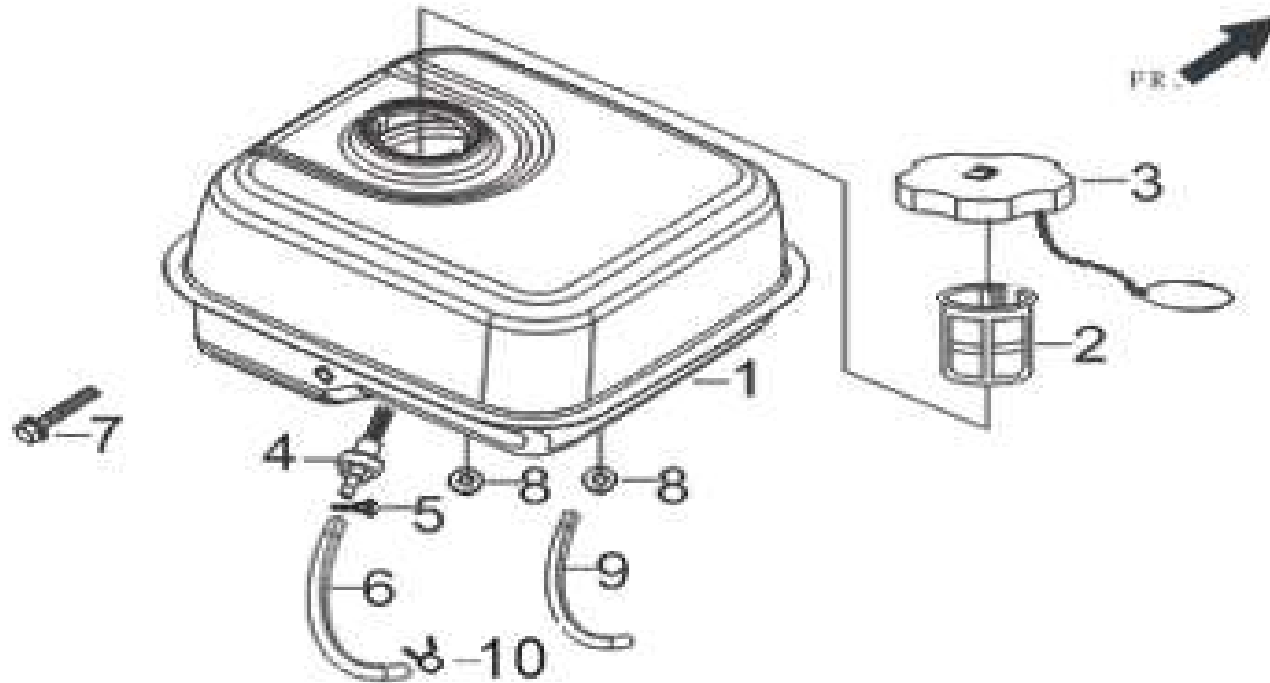
Ref #	Description	Qty	MiTM	RATO
13-01	AIR FILTER ASSEMBLY - 212CC	1	45-0901	17100-Z010210-0000
13-02	HEXAGON NUT WITH FLANGE	2	80-0469	90305-0600-31A0
13-03	AIR FILTER	1	45-0902	17150-Z010110-0000
13-04	AIR FILTER COVER - 212CC	1	45-0903	17104-Z010210-0000
13-05	AIR FILTER SUBASSEMBLY	1	45-0904	17140-Z010210-0000
13-06	BUTTERFLY NUT - STAMPED	2	45-0905	90312-0600-33
13-07	SEALING WASHER - 1/4" NEOPRENE	1	28-1072	N/A

FIG.14 MUFFLER ASSEMBLY



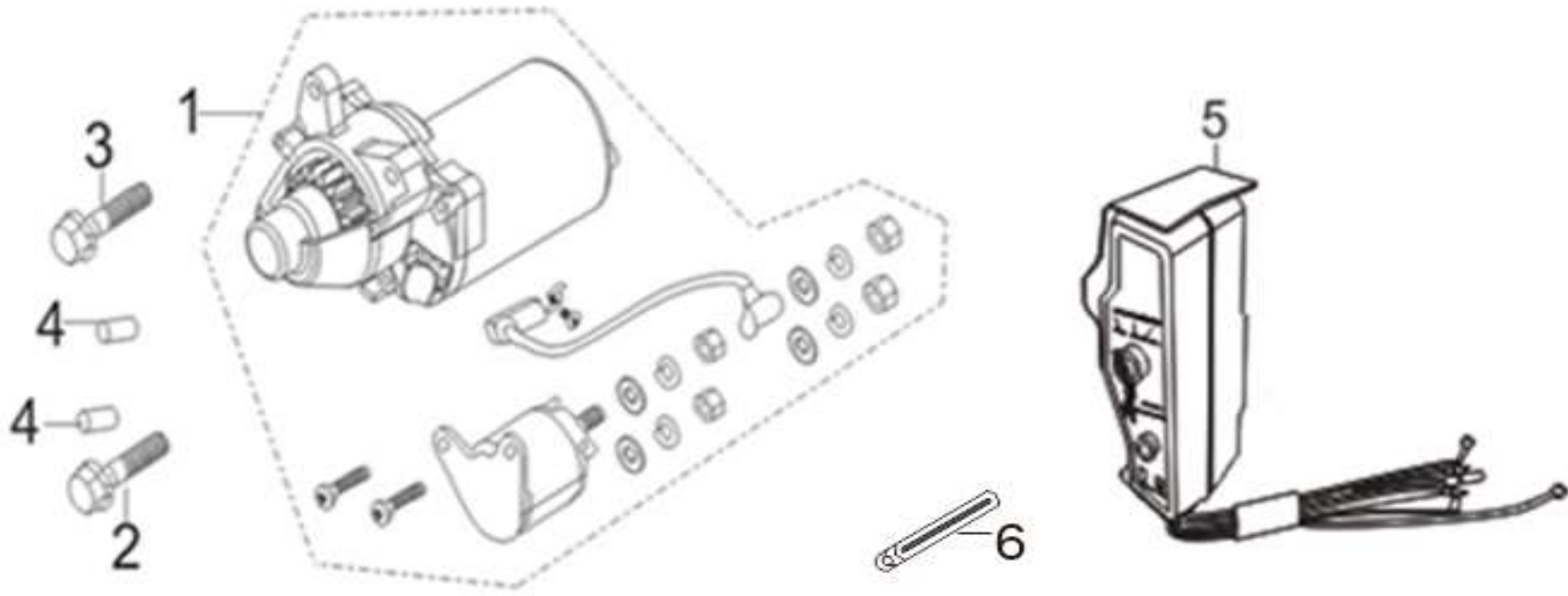
Ref #	Description	Qty	MiTM	RATO
14-01	GASKET, EXHAUST OUTLET	1	45-0513	18001-Z440110-0000
14-02	HEXAGON NUT	2	80-0476	90303-0800-31A0
14-03	MUFFLER ASSY.	1	45-0947	18100-Z442810-H7A0

FIG.15 FUEL TANK ASSEMBLY



Ref #	Description	Qty	MiTM	RATO
15-01	FUEL TANK	1	45-0515	16620-Z440410-H6AP
15-02	STRAINER, FUEL	1	45-0411	16652-Z010710-00A0
15-03	COVER, FUEL TANK	1	45-0948	16730-Z440810-LKA0
15-04	OUTLET SUBASSEMBLY, FUEL TANK OIL	1	45-0933	16680-Z010210-0000
15-05	COLLAR	1	45-0950	90740-Z010510-00A0
15-06	TUBE, FUEL	1	45-0518	90686-Z010710-00M1
15-07	BOLT	1	80-0521	90001-0630-01A0
15-08	HEXAGON NUT WITH FLANGE	2	80-0469	90305-0600-31A0
15-09	JACKET, RUBBER	1	45-0519	30431-Z010110-0000
15-10	PIPE CLAMP	1	80-0453	90685-D080-0EA0

FIG.16 MOTOR STARTER ASSEMBLY



Ref #	Description	Qty	MiTM	RATO
16-01	STARTING MOTOR ASSEMBLY	1	45-0921	09100-Z200210-0000
16-02	HEX SOCKET FLANGE FACE BOLT	1	80-0722	90001-0635-01A0
16-03	HEX SOCKET FLANGE FACE BOLT	1	80-0467	90001-0625-01A0
16-04	POSITION PIN	2	45-0922	90502-0810-00A0
16-05	CONTROL SWITCH	1	45-0923	35000-Z280130-H700
16-06	WIRE CLIP	1	80-0592	90684-Z010310-0000
-	ENGINE STARTING KEY	2	45-1149	35302-Z160110-0000