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MANUAL DE PARTES

MOTOR
ARRANQUE
ELÉCTRICO
190FD-B 15HP

MOTORES 

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MOTOR ARRANQUE ELÉCTRICO 190FD-B

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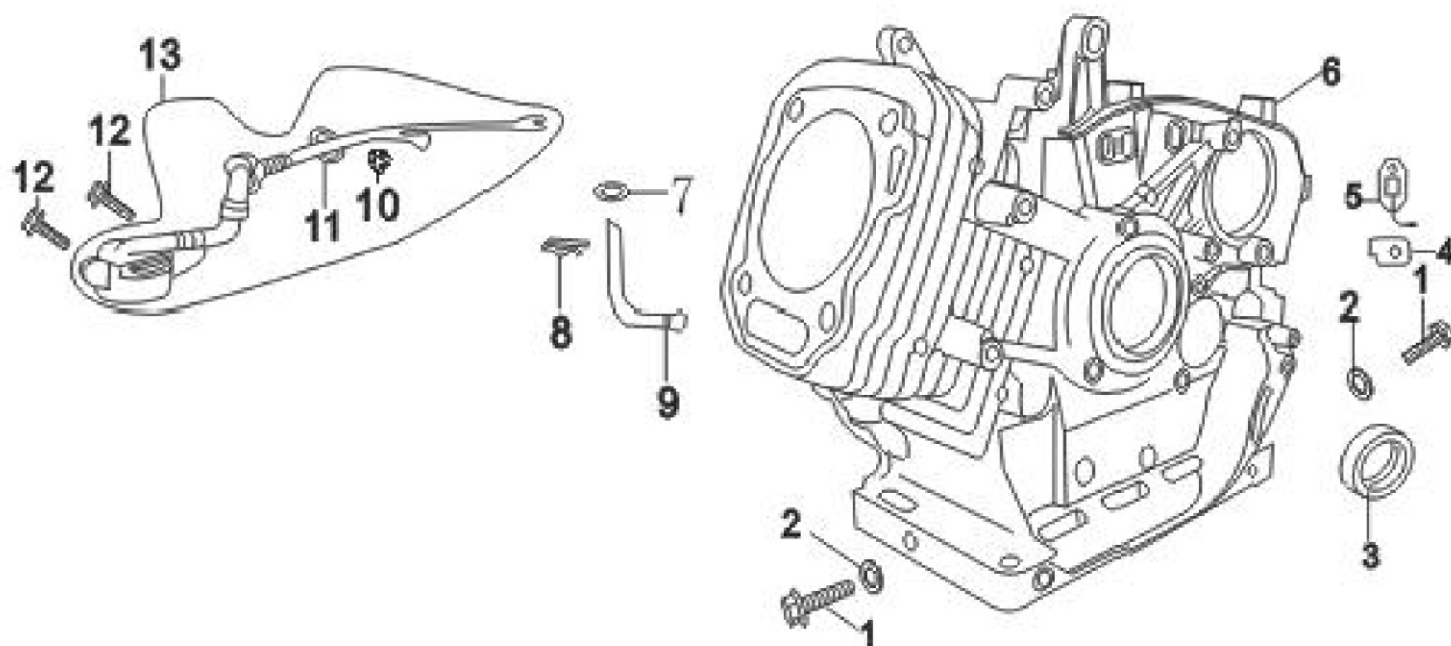
JUNTAS FIGURA 1/TABLA 1



ITEM	PART NO.	DESCRIPTION	QTY.
1	JUNTAS/190F	Juego de juntas MPOWER 15HP	1



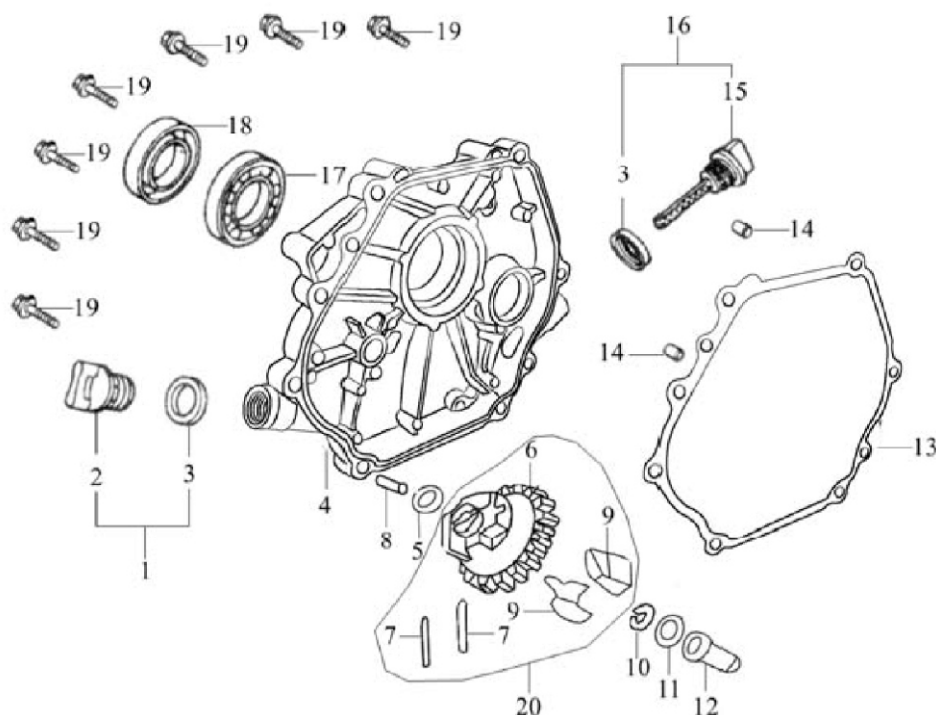
CRANKCASE ASSY **FIGURA 2/TABLA 2**



ITEM	PART NO.	DESCRIPTION	QTY.
1	11116/173F	Washer	2
2	1115/173F	Drain plug	2
3	11120/182F	Oil seal, crankshaft	1
4	11117/173F	Seal	1
5	37850/168F	Diode	1
6	11100/190FD-B	Crankcase 190FD-B	6
7	26113/173F	Whaser	2
8	26112/173F	Splitpin	1
9	26111/182F	Regulating sw ay bar	1
10	GB/62-1988	Nut M10	1
11	11119/168F	O-ring	1
12	GB/T16674	Bolt M6 x 14-F	2
13	27400/173F-E	Oil sensor	1

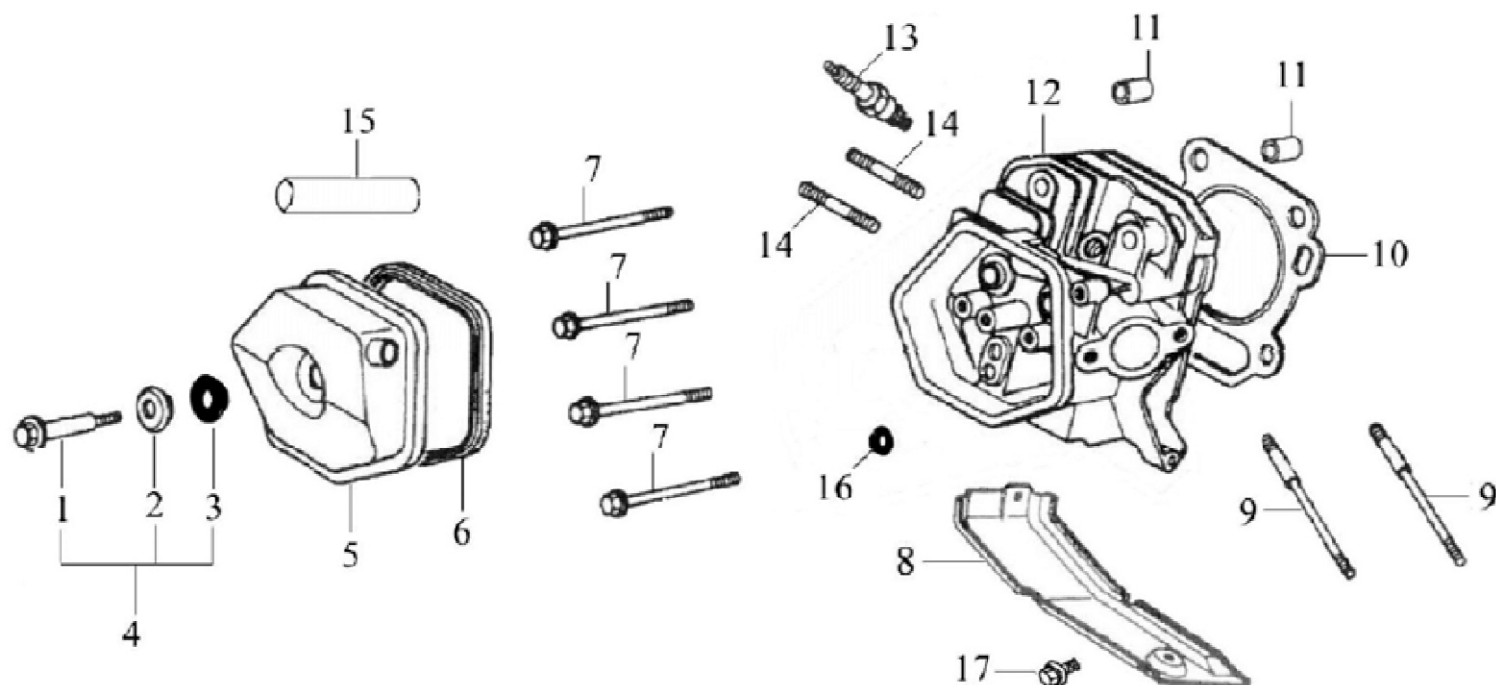


CRANKCASE COVER ASSY **FIGURA 3/TABLA 3**



ITEM	PART NO.	DESCRIPTION	QTY.
1	15610/173F-E	Oil plug with Seal	1
2	15611/173F-E	Oil plug	1
3	15512/173F	Seal	2
4	11311/182F	Crankcase cover	1
5	25118/168F	Washer, driven gear	1
6	25111/182F	Driven gear, regulator	1
7	25116/182F	Pin	2
8	25115/182F	Regulatin shaft	1
9	25114/182F	Flying block	2
10	25117/182F	Snap ring	1
11	25113/182F	Washer	2
12	25112/182F	Sliding sleeve	1
13	11119/182F	Gaasket, crankcase	1
14	11113/173F	Set pin Ø 8x12	2
15	15511/173F-E	Dipstick	1
16	15510/173F-E	Dipstick with seal	1
17	GB276/89	Bearing 6206	1
18	13180/182F	Oil seal, crankshaft	1
19	GB/T16674	Bolt M8 x 40	7
20	25120/182F	Driven gear, regulator assy	1

CYLINDER HEAD & CYLINDER HEAD COVER ASSY **FIGURA 4/TABLA 4**

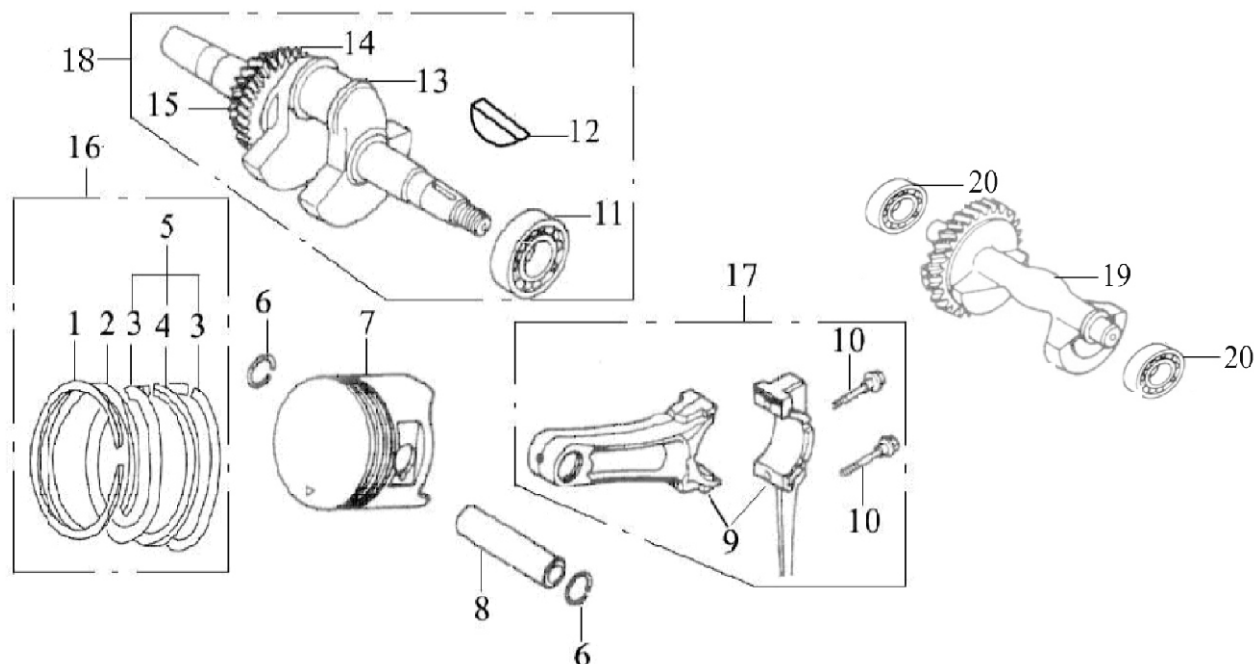


ITEM	PART NO.	DESCRIPTION	QTY.
1	12221/173F	Bolt	1
2	12222/173F	Washer	1
3	12223/173F	Rubber seal	1
4	12440/173F	Bolt	1
5	12310/173F	Cylinder head cover Assy	1
6	12312/173F	Gasket, cylinder head cover	1
7	GB/T16674	Bolt M10X 80	4
8	19121/182F	Lead wind cover	1
9	17218/182F	Stud	2
10	12220/190F	Gasket, cylinder	1
11	12217/173F	Set pin	2
12	12210/190F	Cylinder head Assy	1
13	34200/168F	Spark plug	1
14	18214/173F	Stud	2
15	11513/182F	Air duck	1
16	14420/173F	Seal	1
17	GB/T16674	Bolt M6 X 12	1



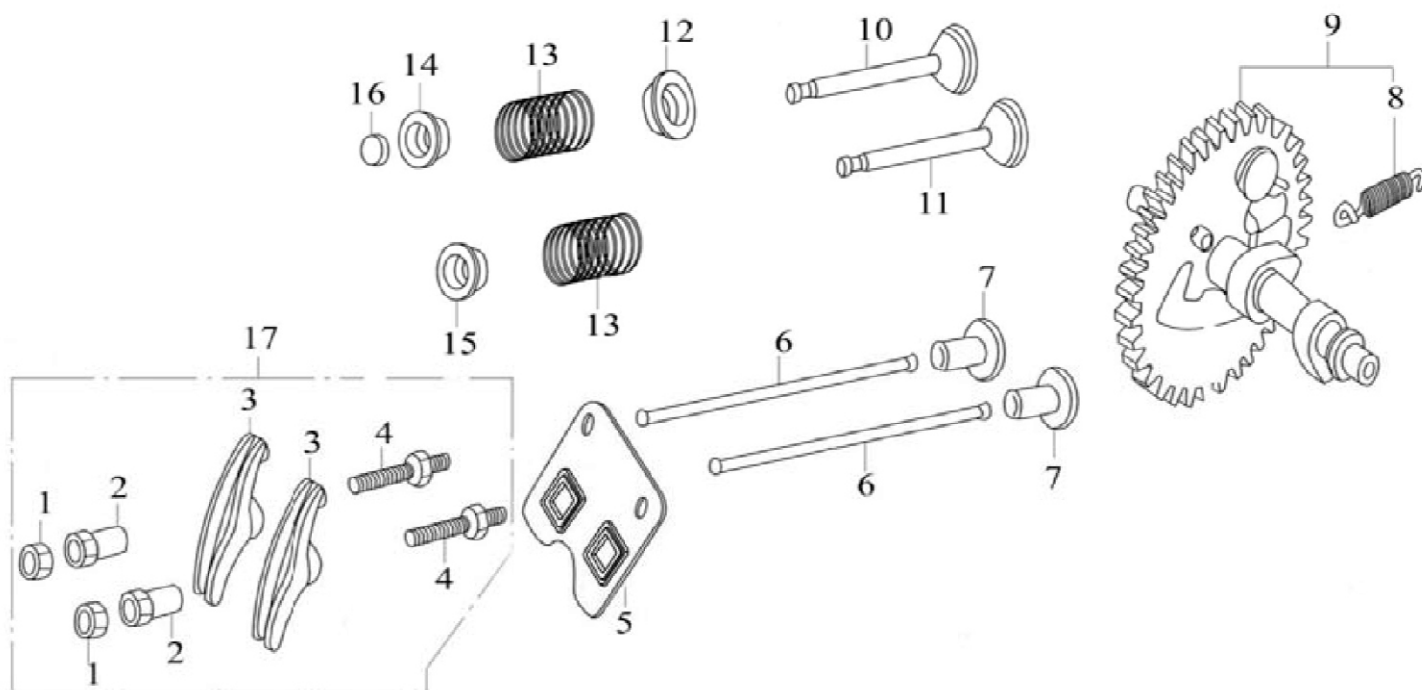
CRANKSHAFT, PISTON, CONNECTING & BALANCING SHAFT

FIGURA 5/TABLA 5



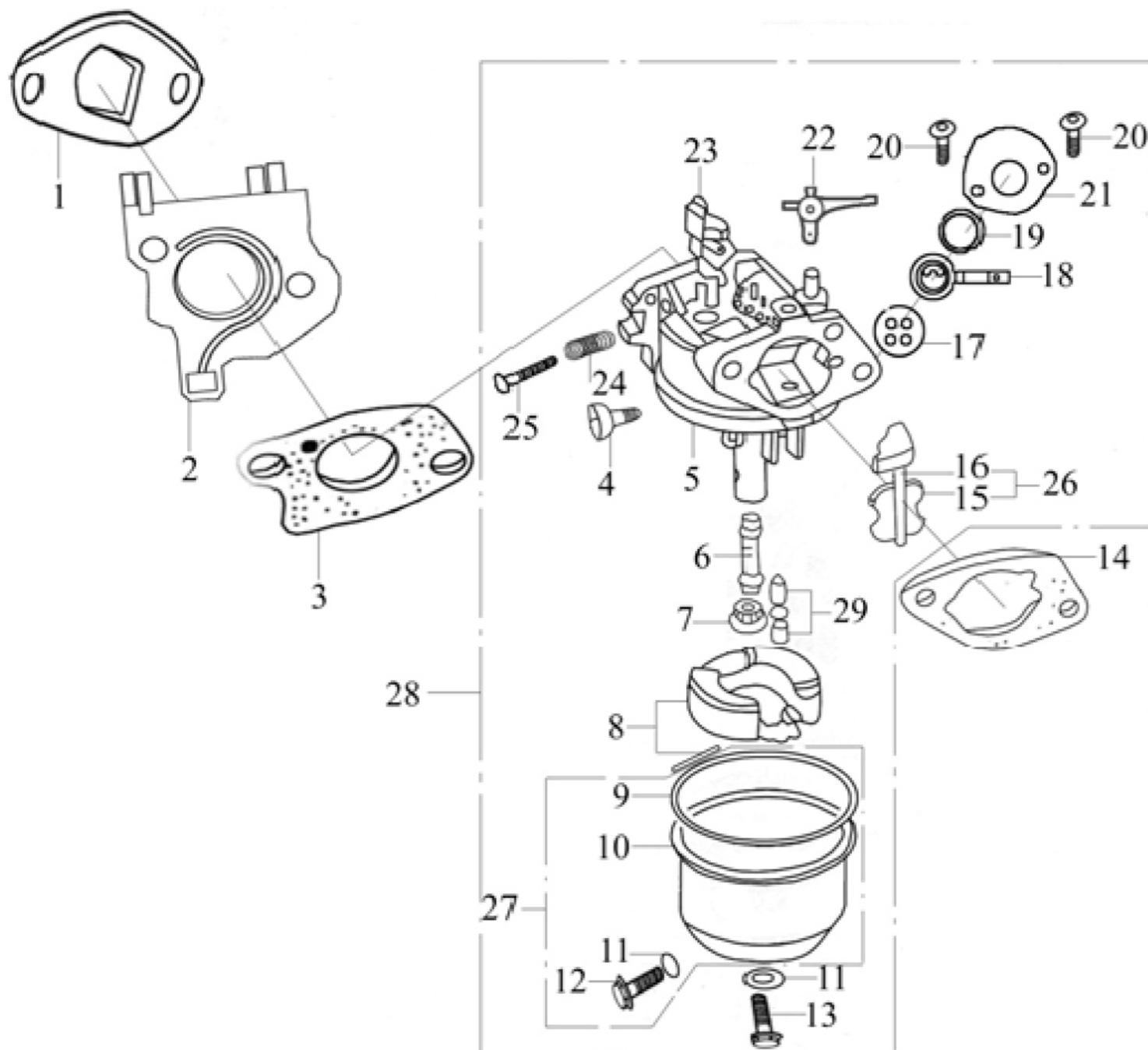
ITEM	PART NO.	DESCRIPTION	QTY.
1	13411/190F	Piston ring (I)	1
2	13412/190F	Piston ring (II)	1
3	13422/190F	Side rail	2
4	13421/190F	Expander	1
5	13420/190F	Scraper ring set	1
6	13222/182F	Piston pin circlip	2
7	13211/190F	Piston	1
8	13221/188F	Piston pin	1
9	13121/190F	Shank	1
10	13123/173F	Bolt	2
11	GB276-89	Bearing 6206	1
12	13118/173F	Woodruff key	1
13	13111/190F	Crankshaft	1
14	13114/190F	Drive gear	1
15	13113/190F	Timing driving gear	1
16	13300/190F	Piston ring set	1
17	13130/190F	Connecting rod assy	1
18	13611/190F	Crankshaft assy	1
19	13611/190F	Balancing Shaft	1
20	GGB276-89	Bearing 6202-2RJ	2

COMBINATION OF CAM SHAFT & VALVE ROCKER FIGURA 6/TABLA 6



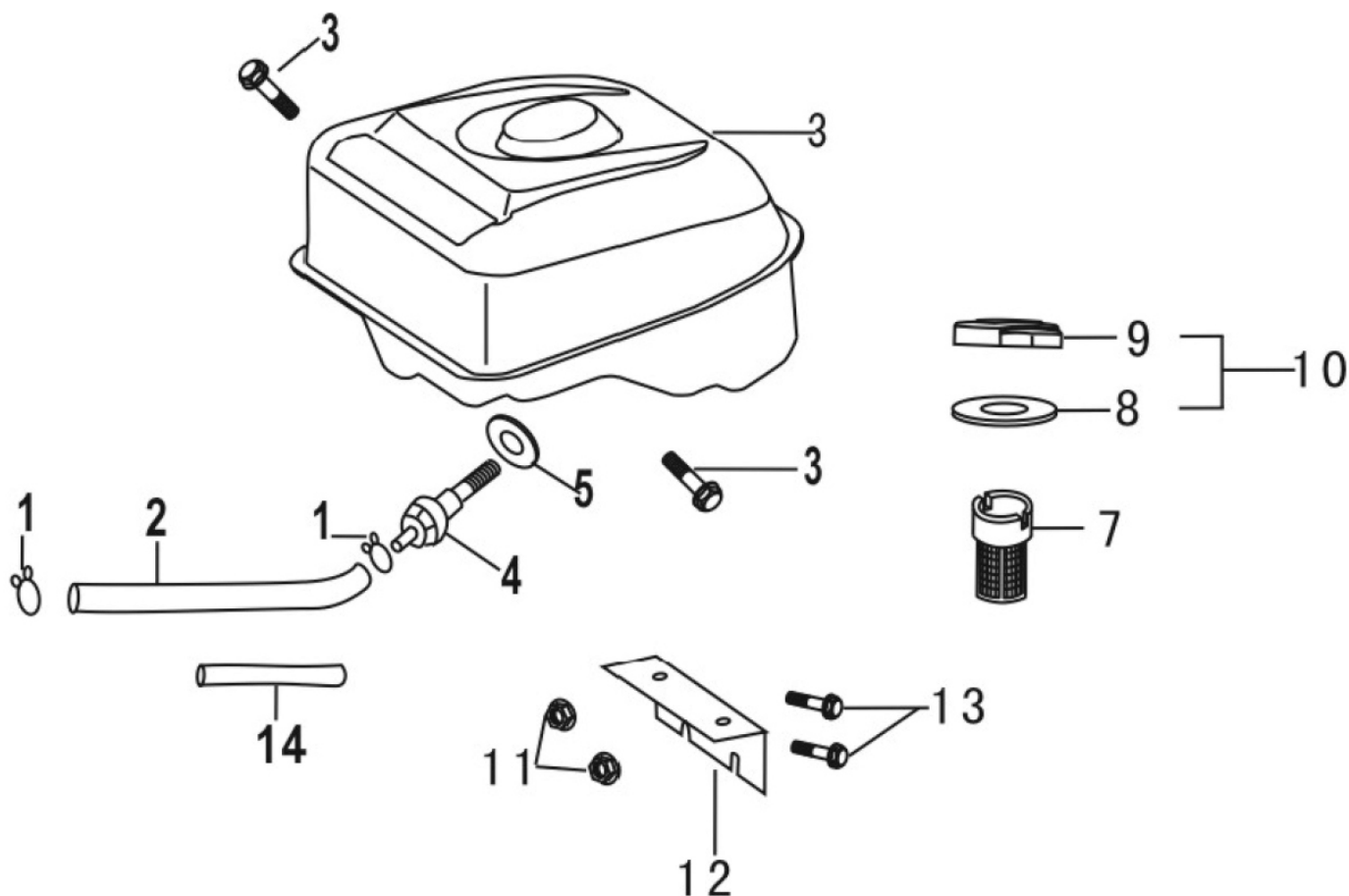
ITEM	PART NO.	DESCRIPTION	QTY.
1	14314/168F	Lock nut	2
2	14312/173F	Sleeve	2
3	14311/173F	Valve rocker	2
4	14313/173F	Adjusting bolt for valve gap	2
5	14261/173F	Pusher guide	1
6	14250/182F	Pusher	2
7	14455/173F	Tappet	2
8	14112/190F	Extension spring	1
9	14100/190F	Camshaft assy	1
10	14721/182F	Exhaust valve	1
11	14711/190F	Intake valve	1
12	14753/173F	Spring retainer, exhaust valve	1
13	14755/173F	Valve spring	2
14	14757/173F	Spring seat, exhaust valve	1
15	14751/173F	Spring seat, intake vavle	1
16	14758/173F	Cap	1
17	14410/173F	Valve rocker assy	1

CARBURETOR ASSY FIGURA 7

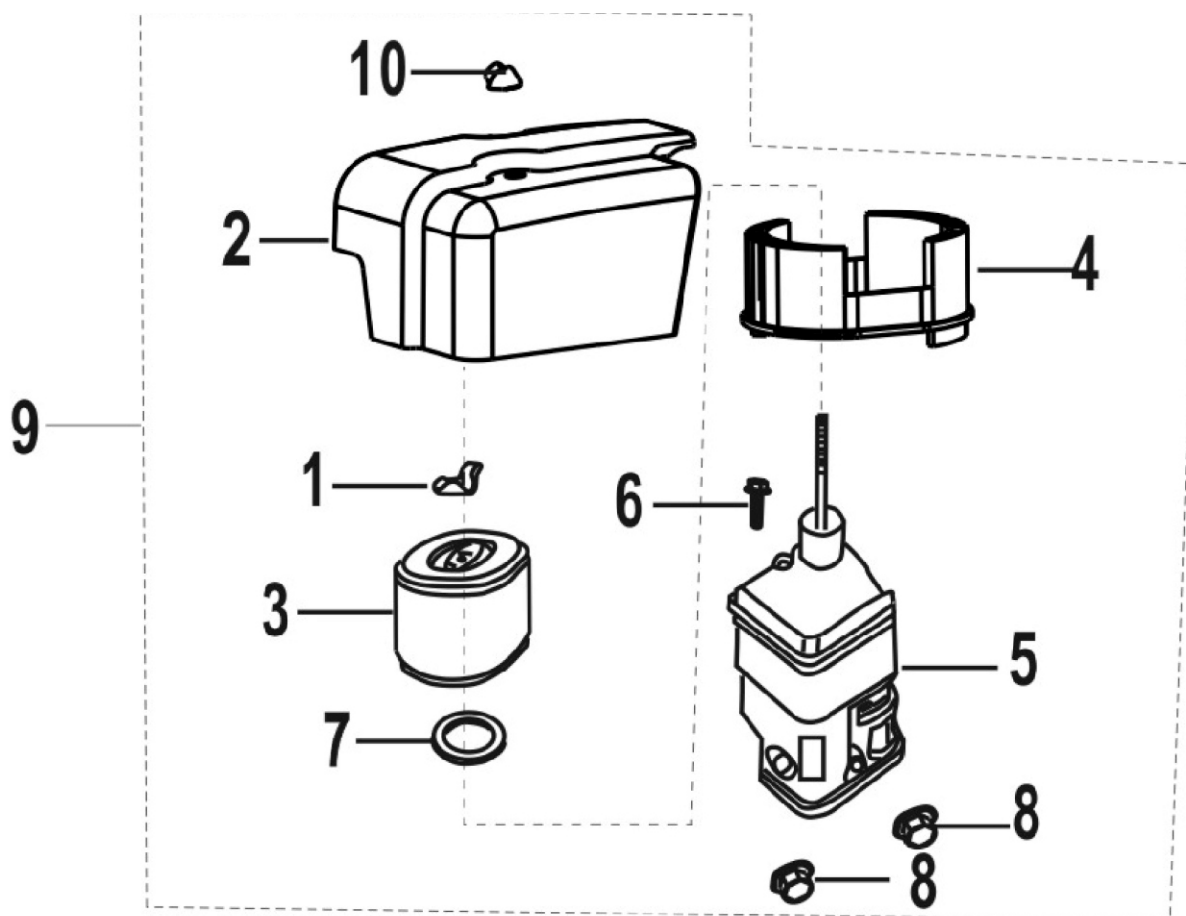



**CARBURETOR ASSY
TABLA 7**

ITEM	PART NO.	DESCRIPTION	QTY.
1	12254/188F	Inlet gasket	1
2	16141/188F	Connecting block	1
3	16142/188F	Carburetor gasket	1
4	16341/168F	Idle adjustment screw	1
5	16240/173F	Mixture chamber body	1
6	16244/190F	Main nozzle	1
7	16251/190F-AV	Main jet	1
8	16220/173F	Float	1
9	16216/173F	Float chamber gasket	1
10	16211/173F	Float chamber	1
11	16214/168	Washer	2
12	16215/198F	Float chamber drain Screw	1
13	16212/168F	Screw	1
14	17113/173F	Air cleaner gasket	1
15	16321/173F	Choke	1
16	16322/173F	Choke stem	1
17	16365/168F	Carburetor washer	1
18	16363/168F	Carburetor switch handle	1
19	16364/168F	Carburetor switch washer	1
20	GB/T16674.2	Screw M4	2
21	16362/168F	Carburetor switch cover	1
22	16323/173F	Choke switch shift fork	1
23	16260/173F	Throttle unit	1
24	16352/168F	Spring, mixture adjustment screw	1
25	16351/168F	Mixture adjustment screw	1
26	16320/173F-AV	Choke unit	1
27	16210/173F	Float chamber	1
28	16100/190F-AV	Carburetor Assy	1
29	16230/173F	Float needle	1

**FUEL TANK ASSY
FIGURA 8/TABLA 8**


ITEM	PART NO.	DESCRIPTION	QTY.
1	16624/168F	Pipe clamp	2
2	16621/182F	Outlet pipe	1
3	GB/T16674	Bolt M8 x 45	2
4	16950/168F	Connector	1
5	16634/168F	Packing ring	1
6	16500/182F-B	Fuel tank	1
7	16916/168F	Filter cup	1
8	16414/168F	Packing ring	1
9	16411/168F-B	Fuel filler cap	1
10	16400/168F-B	Fuel filler cap with packing ring	1
11	GB/T6186	Nut M6	2
12	16541/182F-A	Fuel tank adapting piece	1
13	GB/T16674	Bolt M6X25	2
14	16922/173F	Protected sheath	1

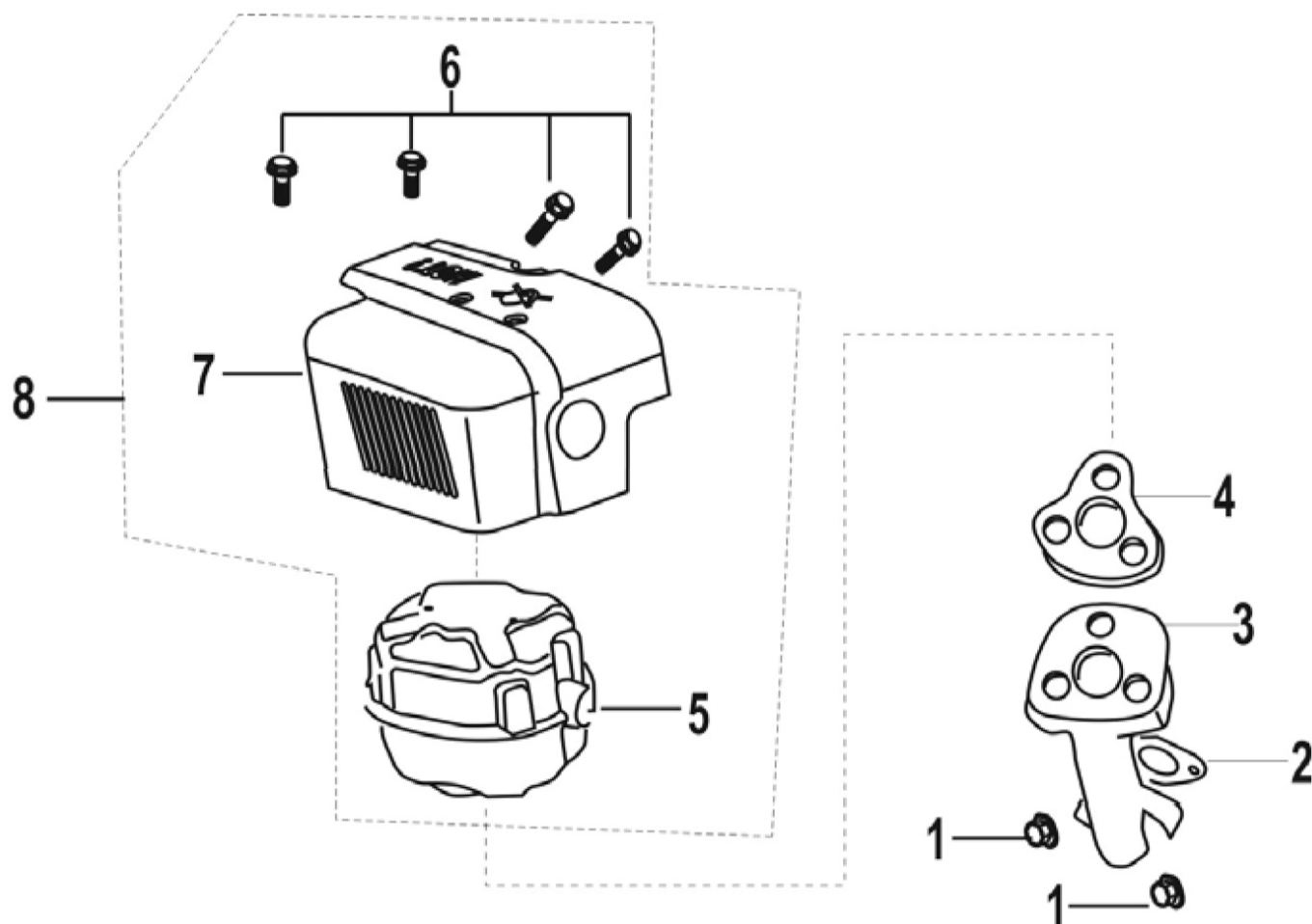
**AIR CLEANER ASSY
FIGURA 9/TABLA 9**


ITEM	PART NO.	DESCRIPTION	QTY.
1	GB/T62-88	Wing nut	2
2	17112/182F-B	Air cleaner cover	1
3	171300/188F	Filter element	1
4	17141/188F	Air cleaner aeration cover	1
5	17131/188F	Air cleaner housing	1
6	GB/T16674	Bolt M6X 28	1
7	17128/182F	Washer	1
8	GB/T6187.1	Nut M6	2
9	17100/182F-B	Air cleaner assy	1
10	17117/168F-B	Air cleaner cover nut	1

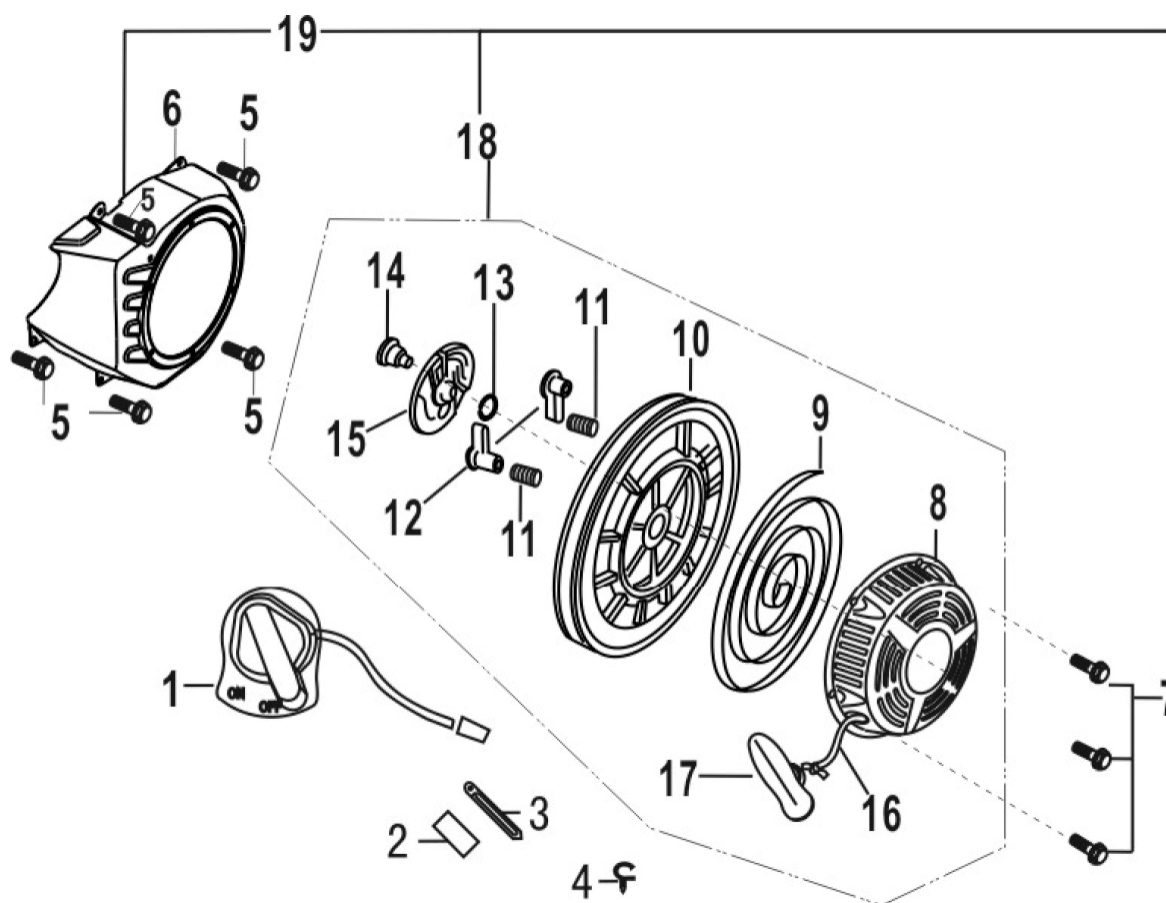


MUFFLER

FIGURA 10/TABLA 10



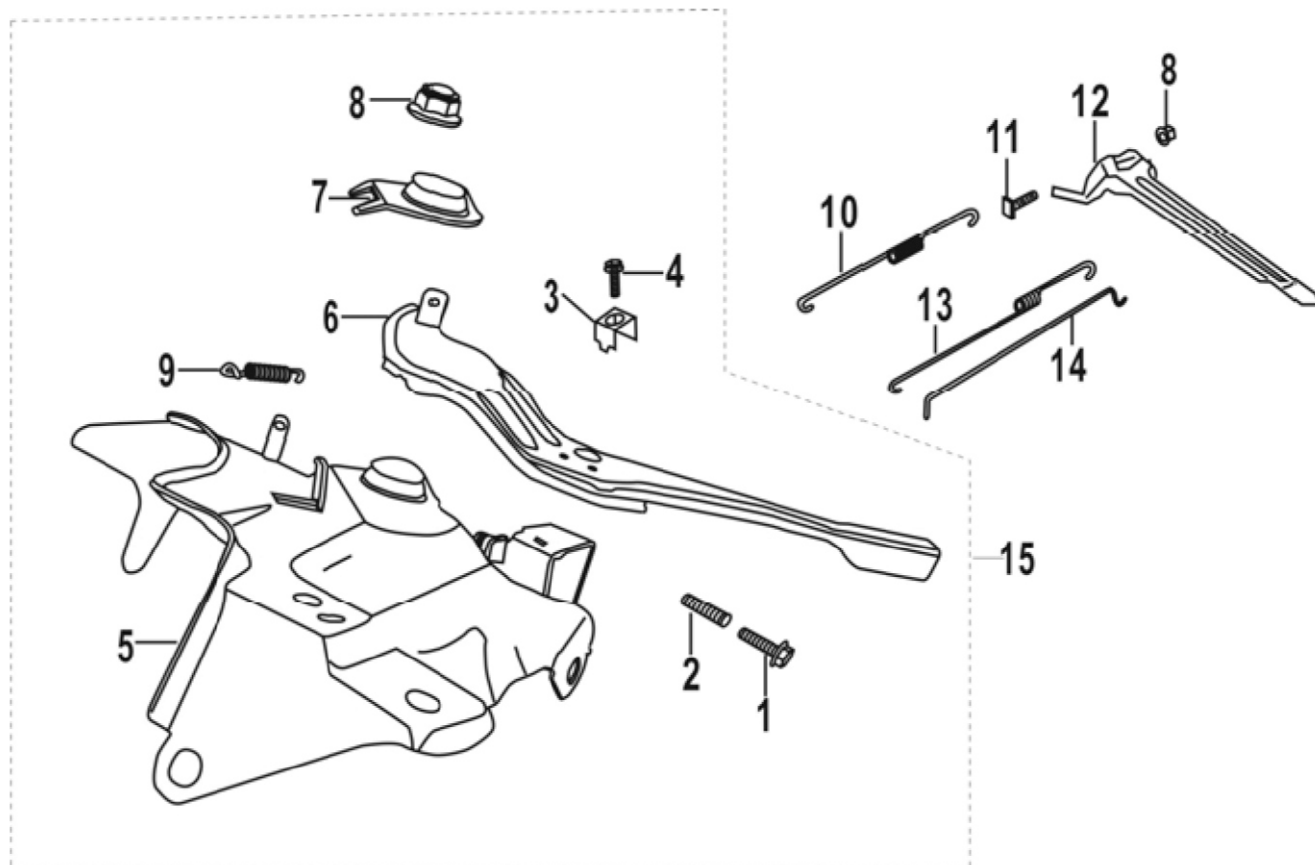
ITEM	PART NO.	DESCRIPTION	QTY.
1	GB/6170-86	Nut M8	5
2	12255/188F-A	Exhaust pipe gasket	1
3	18111/173F	Exhaust pipe	1
4	18221/173F	Muffler gasket	1
5	18100/182F	Muffler	1
6	GB/T16674.2	Screw M5 X 8	4
7	18130/188F-B	Muffler hood assy	1
8	18000/188F-B	Muffler assy	1



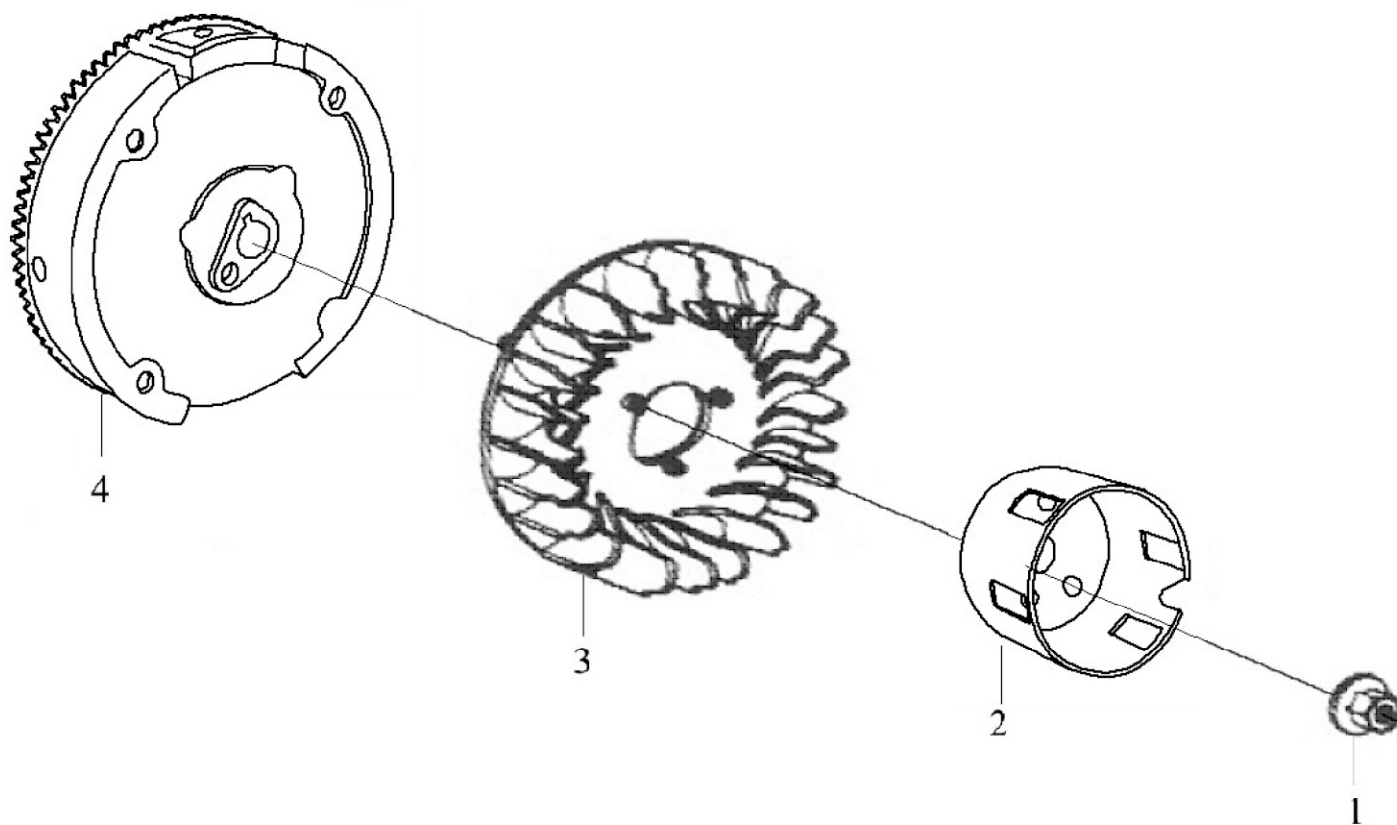
ITEM	PART NO.	DESCRIPTION	QTY.
1	35410/168F-B	Engine switch	1
2	19314/173F	Wire grommet	1
3	19316/173F	Clip	1
4	16628/173F	Plastic clip	1
5	GB/T16674.2	Bolt M6x12	5
6	19710/182F	Fan hood assy	1
7	GB/T16774.2	Bolt M6X 8	3
8	23240/182F-A	Recoil starter casing	1
9	27319/173F	Spiral spring	1
10	27351/173F	Starter rolls	1
11	23212/173F	Ratchet spring	2
12	23215/173F	Ratchet	2
13	23211/173F	Friction spring	1
14	23213/173F	Set screw	1
18	27300/182F	Polea Retr��ctil	1
19	27100/182F	Ensamble de la polea retr��ctil	1

REGULATING CONTROL SYSTEM

FIGURA 12/TABLA 12



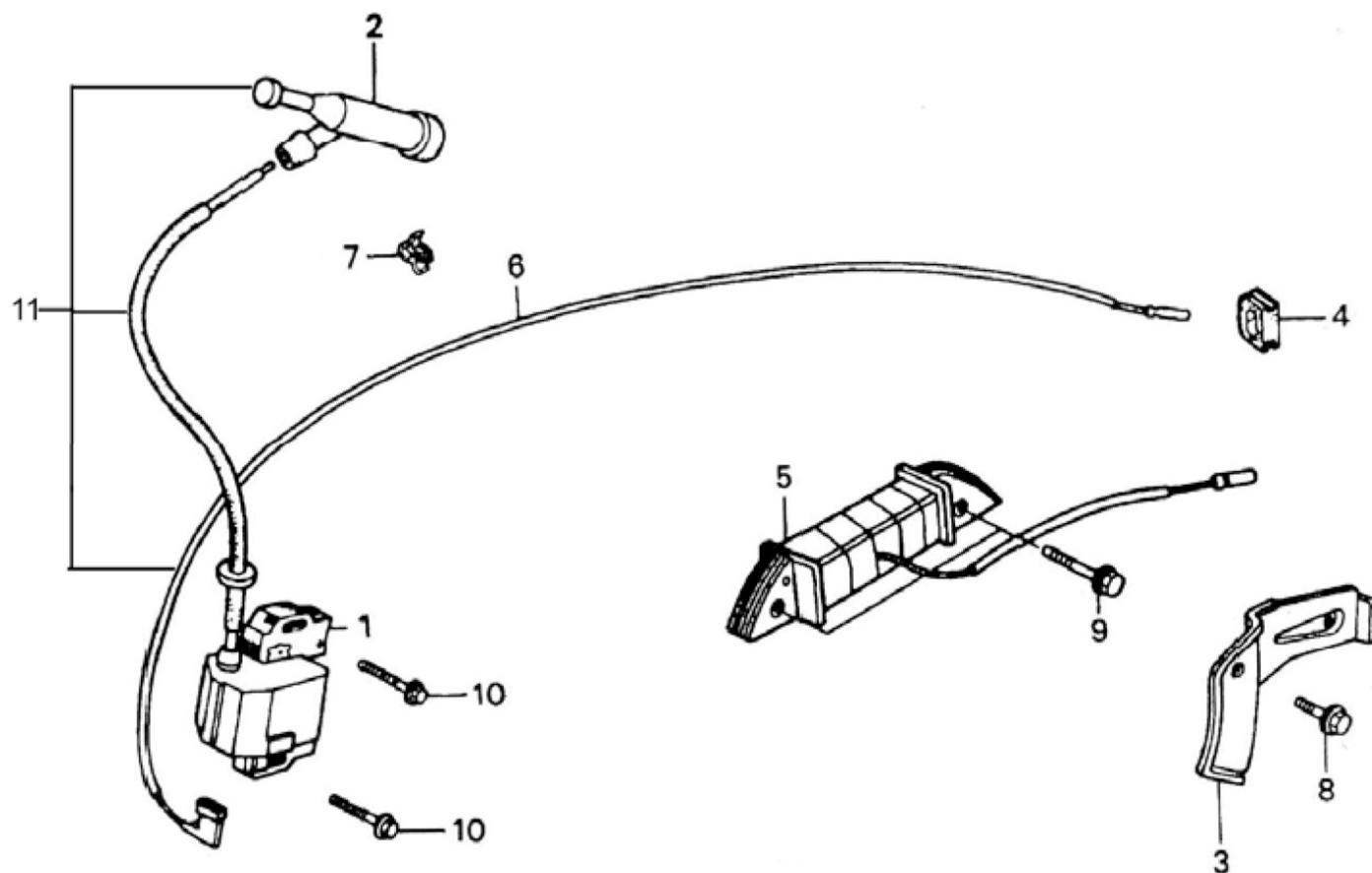
ITEM	PART NO.	DESCRIPTION	QTY.
1	GB818-85-H	Bolt M5X 35	1
2	26415/173F	Regulating spring	1
3	26213/182F	Clamp	1
4	GB/T16674.2	Bolt M6 X 12	1
5	26421/182F	Support panel	1
6	26412/182F	Handgrip	1
7	26224/182F	Setting panel	1
8	GB6177-86	Nut M6	2
9	26416/173F	Spring	1
10	26363/182F	Back spring	1
11	26116/168F	Lock bolt	1
12	26331/182F	Regulating arm	1
13	26364/182F	Fine regulating spring	1
14	26341/182F	Pulling rod	1
15	26410/182F	Regulating frame assy	1



ITEM	PART NO.	DESCRIPTION	QTY.
1	23317/173F	Nut M16 x 1.5	1
2	27370/188F	Starting flange	1
3	19722/182F	Flywheel fan	1
4	27500/182F	Flywheel	1

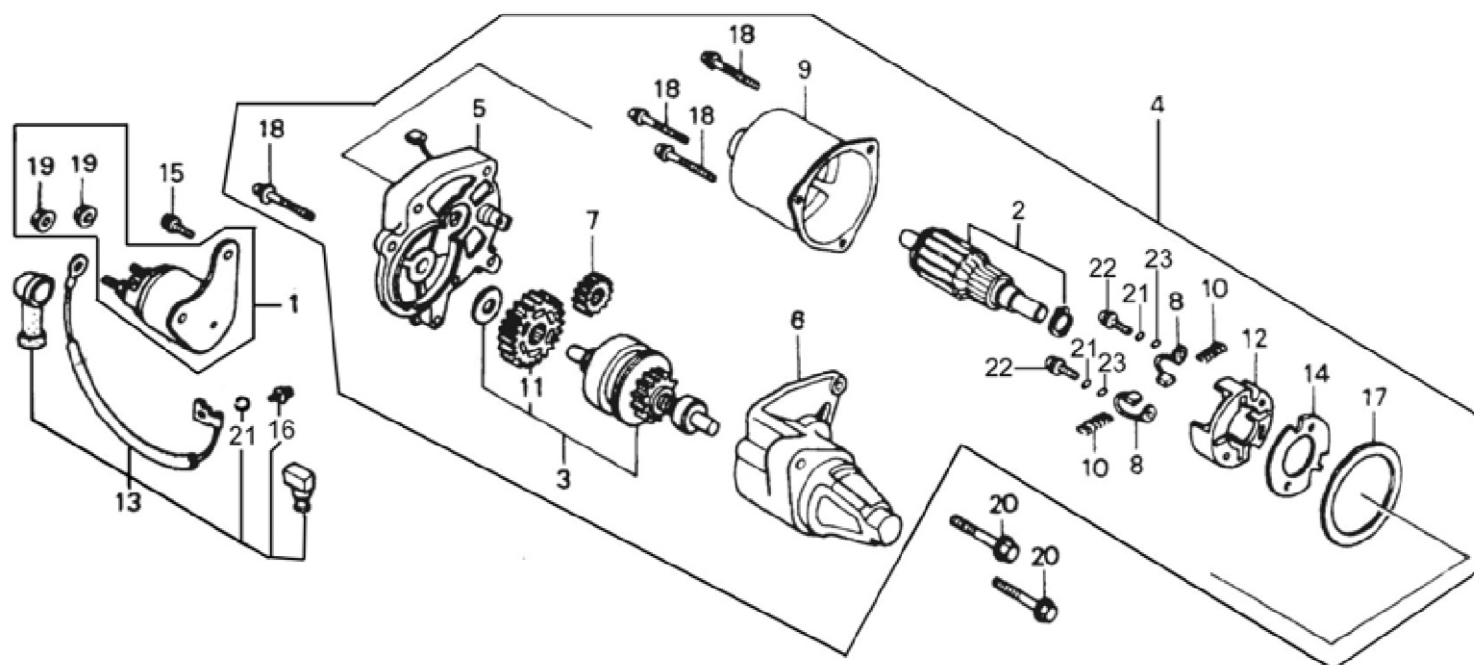
IGNITION COIL

FIGURA 14/TABLA 14



ITEM	PART NO.	DESCRIPTION	QTY.
1	34500/182F	Ignition coil	1
2	34310/173F	Cap, spark plug	1
3	24112/182FD	Clamper, cord	1
4	11117/173F	Ruber ring, crankcase	1
5	31250/182F-AS	Charge coil	1
6	27230/182F	Extinguishing cable	1
7	19316/173F	Cable tie	1
8	GB/T16674	Bolt, M6 X 12	1
9	GB/T16674	Bolt, M6 X 35	2
10	GB/T16674	Bolt, M6 X 25	2
11	27200/182F	Ignition coil unit	1

STARTING MOTOR ASSY FIGURA 15





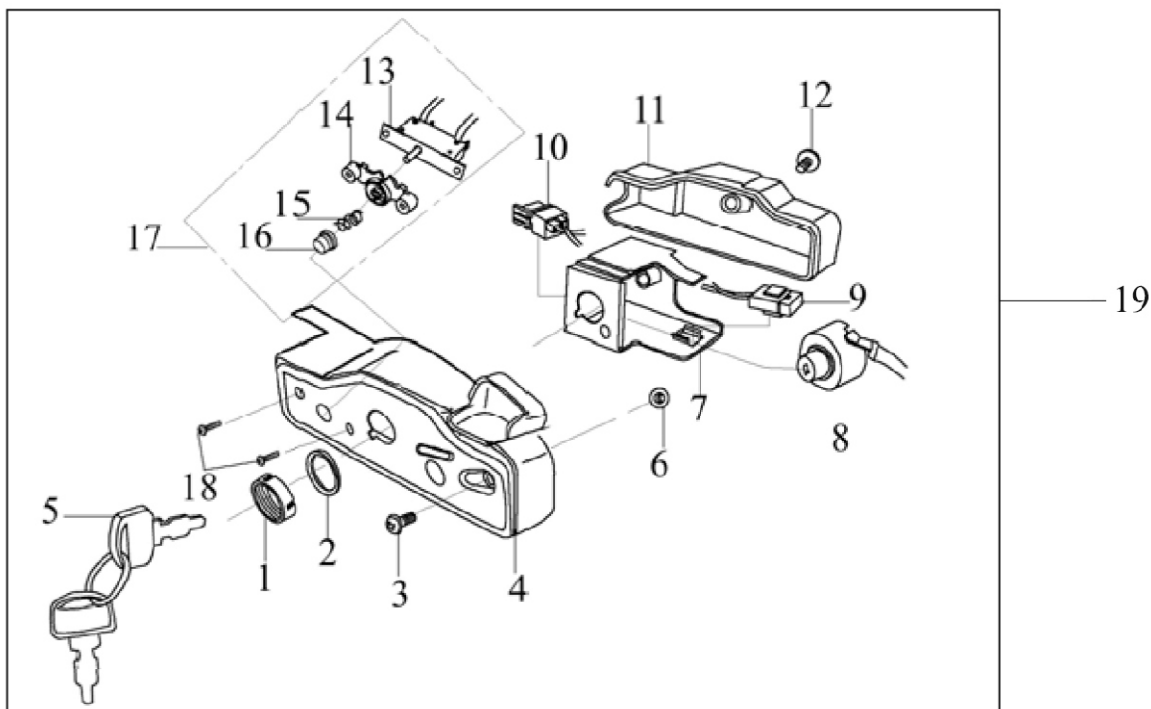
STARTING MOTOR ASSY

TABLA 15

ITEM	PART NO.	DESCRIPTION	QTY.
1	24120/182FD	Relay, start-up	1
2	24150/182FD	Rotor comp.	1
3	24110/182FD	Starting clutch	1
4	24100/182FD	Starting motor Assy	1
5	24122/182FD	Base, starting	1
6	24123/182FD	Housing, starting clutch	1
7	24119/182FD	Driven gear	1
8	24160/182FD	Brush comp.	4
9	24170/182FD	Stator comp.	1
10	24124/182FD	Spring, brush	4
11	24121/182FD	Reducing gear	1
12	24125/182FD	Stay, brush	1
13	24118/182FD	Cable, starting motor	1
14	24127/182FD	Insulator	1
15	GB/T818-85	Bolt, M5x14	2
16	GB/T818-85	Screw, M4x6	1
17	24128/182FD	Packing ring	1
18	GB/T818-85	Screw, M5x32	4
19	GB/T6170-86	Nut, M6	2
20	GB/16674	Bolt, M8X35	2
21	GB/T93-87	Spring washer, 4	3
22	GB/T818-85	Scrw, M4 X14	2
23	GB/T97.1-85	Washer, 4	4

STARTING MOTOR CONTROL BOX ASSY

FIGURA 16/TABLA 16



ITEM	PART NO.	DESCRIPTION	QTY.
1	24217/182FD	Clamp ring	1
2	24218/182FD	Gasket	1
3	GB818-86	Bolt M4X10	1
4	24211/182FD-E	Control front cover	1
5	24216/182FD	Key	1
6	GB6187-86	Nut M4	1
7	24212/182FD	Fixed mount	1
8	24215/182FD	Key switch	1
9	24230/182FD	Safety	1
10	24225/182FD	Diode assy	1
11	24213/182FD	Control rear cover	1
12	24214/182FD	Attachment bolt	1
13	24221/182FD	Protector	1
14	24222/182FD	Fixed mount	1
15	24223/182FD	Spring	1
16	24224/182FD	Cover	1
17	24220/182FD	Protector assy	1
18	GB818-85	Bolt M3X12	2
19	E-15/190FD	Ensamble caja de arranque	1

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MANUAL DE PARTES

MOTOR ARRANQUE ELÉCTRICO 190FD-B



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