



Petrol Engine 13hp

**PARTS
BOOKLET**

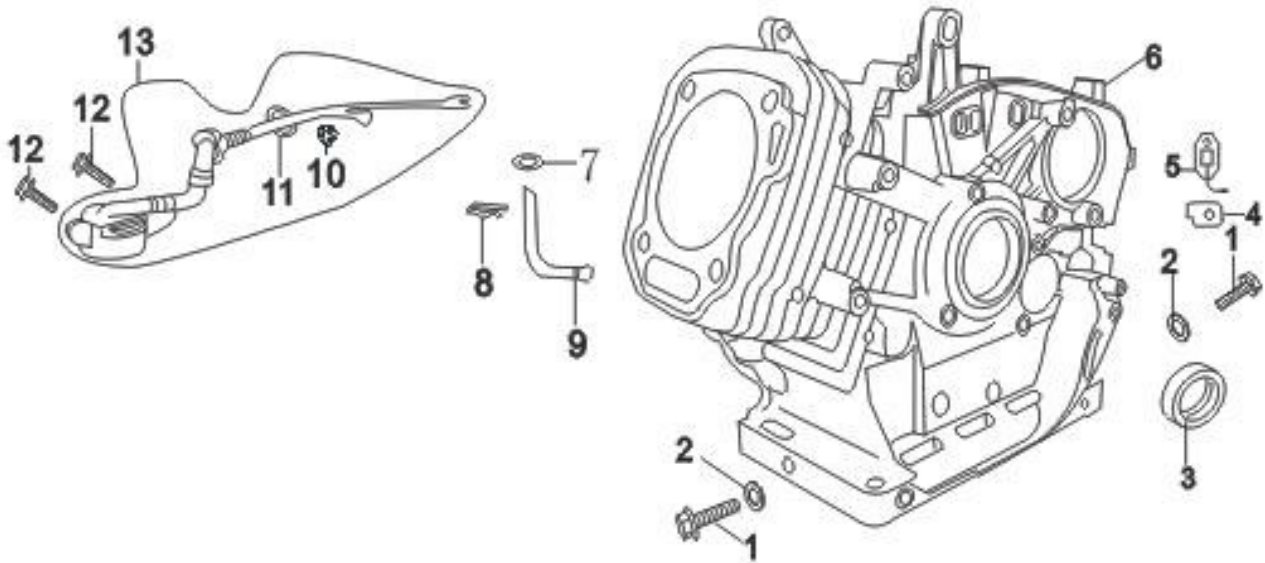


MODEL: LF13ES

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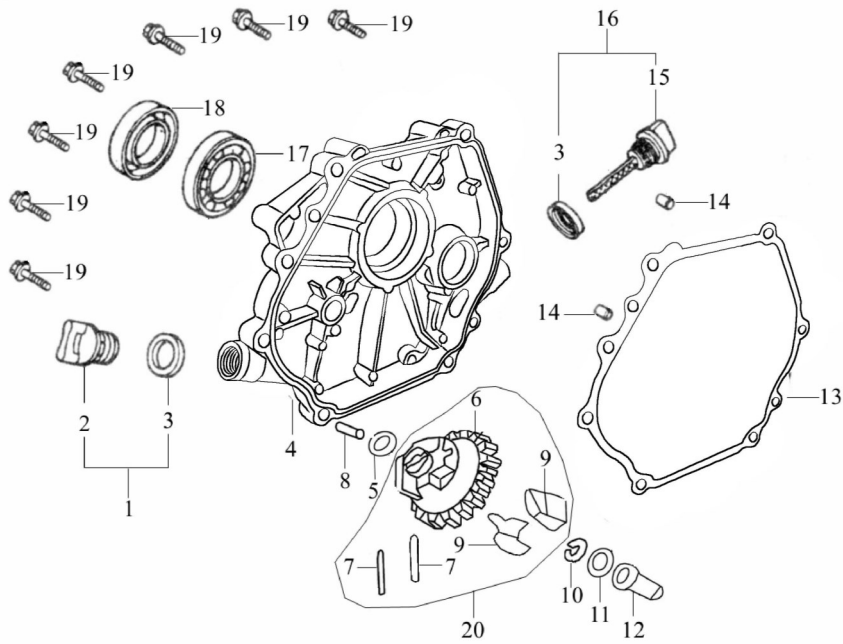
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Crankcase Assembly



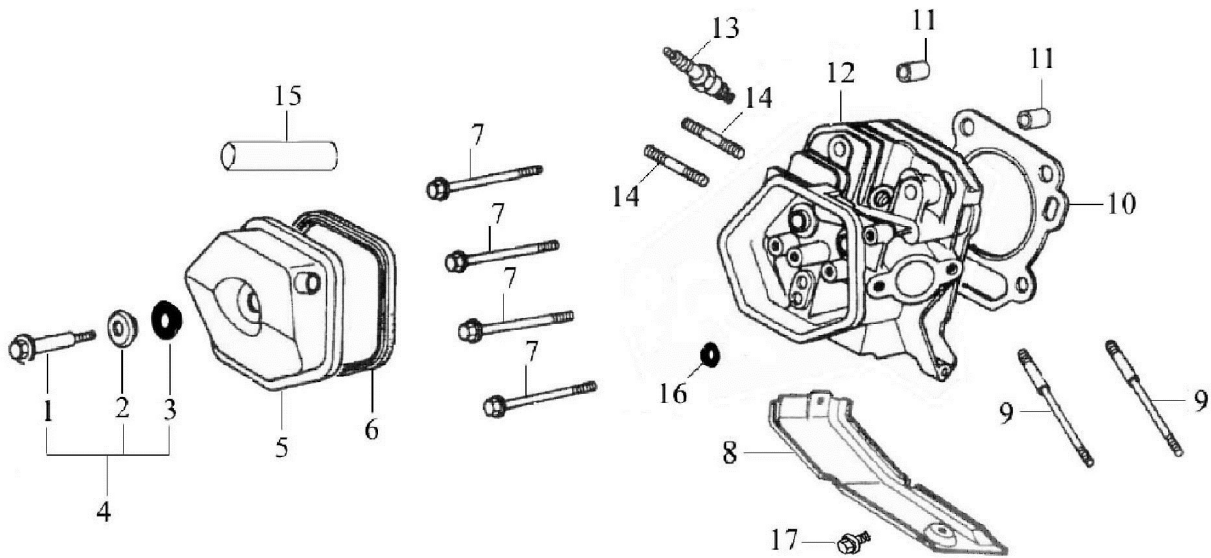
No.	Part No.	Description
1	11116/173F	Washer
2	11115/173F	Drain plug
3	11120/182F	Oil seal, crankshaft
4	11117/173F	Seal
5	27500/168F-2A	Diode
6	11100/188F-A	Crankcase
7	26113/173F	Washer
8	26112/173F	Split pin
9	26111/182F	Regulating sway bar
10	GB/62-1988	Nut M10
11	11119/168F	O-ring
12	GB/T16674	Bolt M6 × 14-F
13	27400/173F	Oil sensor

Crankcase Cover Assembly



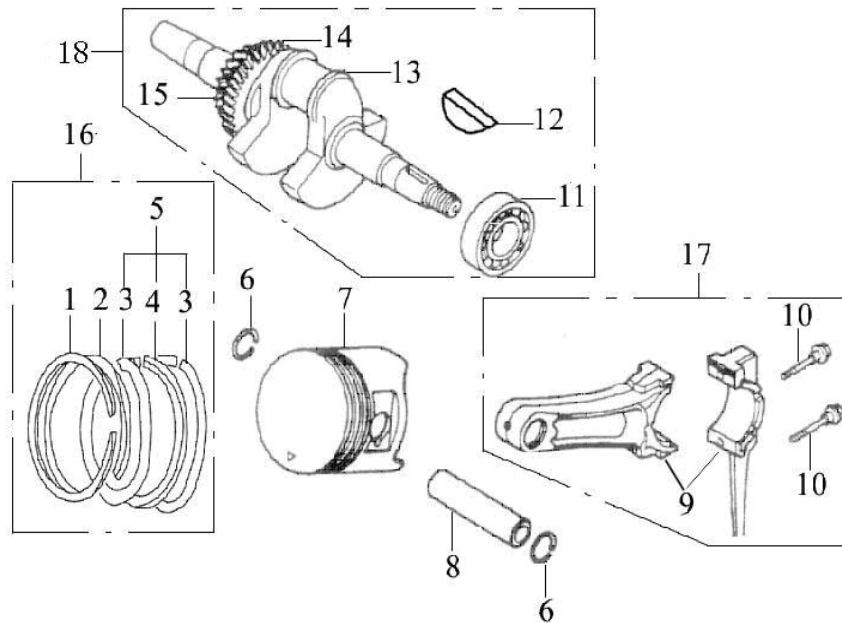
No.	Part No.	Description
1	15610/173F-E	Oil plug with Seal
2	15611/173F-E	Oil plug
3	15512/173F	Seal
4	11211/182F	Crankcase cover
5	25118/168F	Washer, driven gear
6	25111/182F	Driven gear, regulator
7	25116/182F	Pin
8	25115/182F	Regulating shaft
9	25114/182F	Flying block
10	25117/1 82F	Snap ring
11	25113/182F	Washer
12	25112/182F	Sliding sleeve
13	11114/182F	Gasket, crankcase
14	11113/173F	Set pin Φ 8 \times 12
15	15511/173F-E	Dipstick
16	15510/173F-E	Dipstick with seal
17	GB276-89	Bearing 6206
18	13180/182F	Oil seal, crankshaft
19	GB/T16674	Bolt M8 \times 40
20	25100/18 2F	Driven gear, regulator assy

Cylinder Head & Cylinder Head Cover Assembly



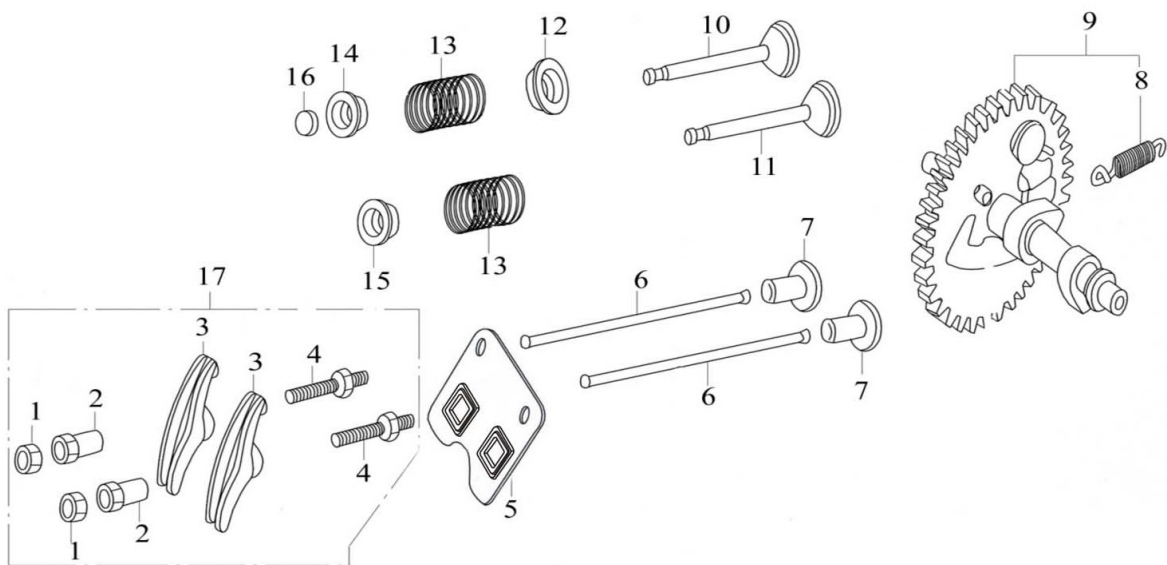
No.	Part No.	Description
1	12221/173F	Bolt
2	12222/173F	Washer
3	12223/173F	Rubber seal
4	12220/173F	Bolt
5	12200/173F	Cylinder head cover Assy
6	12212/173F	Gasket, cylinder head cover
7	GB/T16674	Bolt M10X80
8	19121/182F	Lead wind cover
9	17218/173F	Stud
10	12120/173F	Gasket, cylinder head
11	12217/173F	Set pin
12	12100/182F	12100/182F
13	27100/168F	27100/168F
14	18214/173F	18214/173F
15	11513/182F	11513/182F
16	14420/173F	14420/173F
17	GB/T16674	GB/T16674

Crankshaft, Piston, Connecting & Balancing Shaft



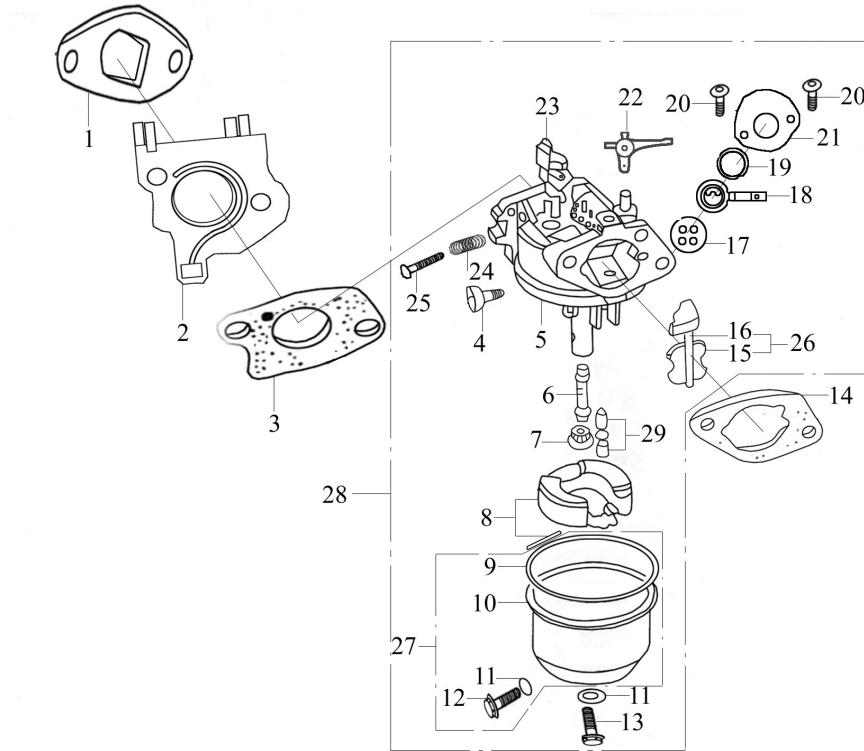
No.	Part No.	Description
1	13411/188F	Piston ring (I)
2	13412/188F	Piston ring (II)
3	13422/188F	Side rail
4	13421/188F	Expander
5	13420/188F	Scraper ring set
6	13313/168F	Piston pin circlip
7	13311/188F	Piston
8	13312/182F	Piston pin
9	13121/182F	Shank
10	13123/173F	Bolt
11	GB/T276-89	Bearing 6206
12	13112/182F	Woodruff key
13	13111/182F	Crankshaft
14	13114/182F	Drive gear
15	13113/182F	Timing driving gear
16	13300/188F	Piston ring set
17	13120/182F	Connecting rod assy
18	13110/182F	Crankshaft assy

Combination of Camshaft & Valve Rocker



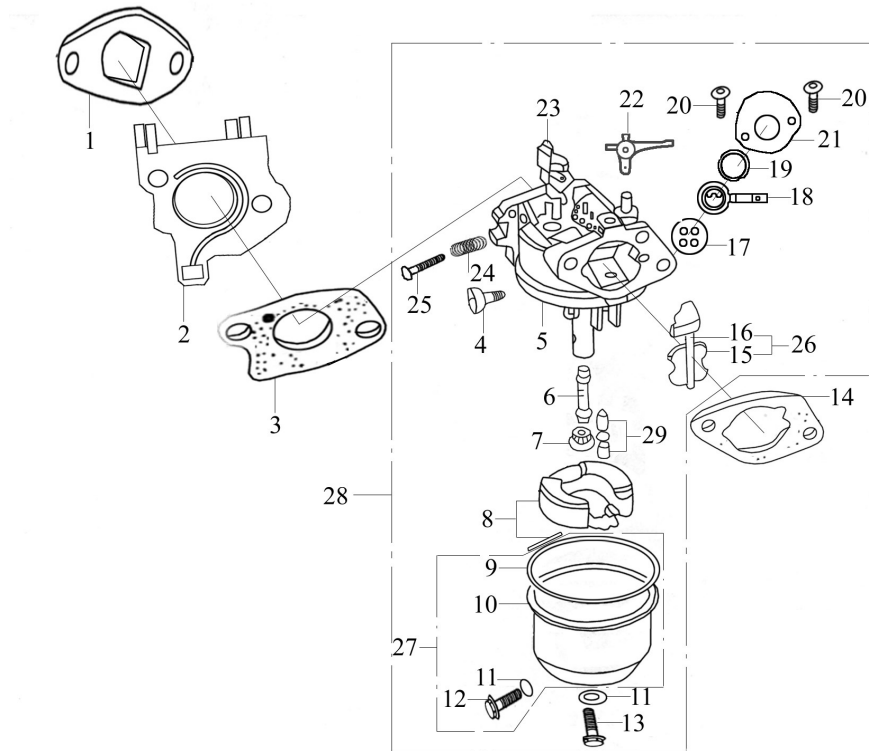
No.	Part No.	Description
1	14314/168F	Lock nut
2	14312/173F	Sleeve
3	14311/173F	Valve rocker
4	14313/173F	Adjusting bolt for valve gap
5	14221/173F	Pusher guide
6	14210/182F	Pusher
7	14315/173F	Tappet
8	14112/182F	Extension spring
9	14100/182F	Camshaft assy
10	14412/182F	Exhaust valve
11	14411/182F	Intake valve
12	14417/173F	Spring retainer, exhaust valve
13	14414/173F	Valve spring
14	14415/173F	Spring seat, exhaust valve
15	14413 /173F	Spring seat, intake valve
16	14416 /173F	Cap
17	14310 /173F	Valve rocker assy

Carburettor Assembly



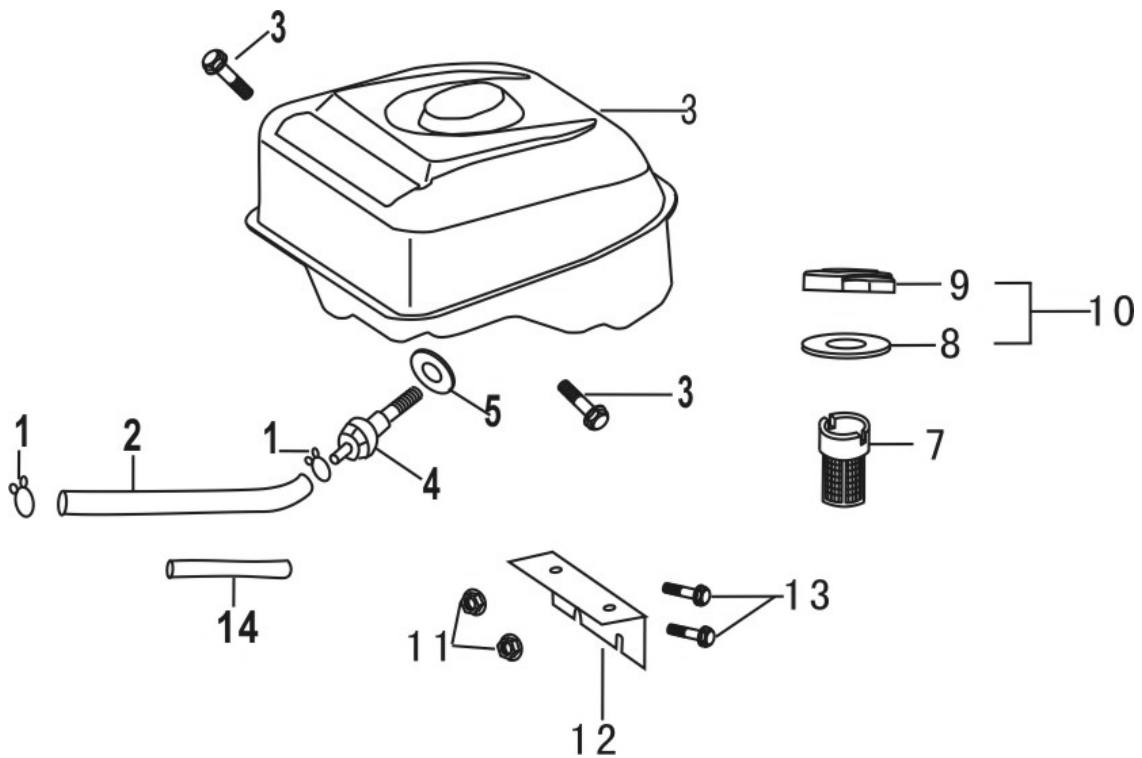
No.	Part No.	Description
1	17219/182F	Inlet gasket
2	16122/188F	Connecting block
3	16113/188F	Carburetor gasket
4	16341/168F	Idle adjustment screw
5	16240/173F	Mixture chamber body
6	16244/188F	Main nozzle
7	16243/188F	Main jet
8	16220/173F	Float
9	16216/173F	Float chamber gasket
10	16211/173F	Float chamber
11	16215/168F	Washer
12	16214/168F	Float chamber drain Screw
13	16212/168F	Screw
14	17113/173F	Air cleaner gasket

Carburettor Assembly



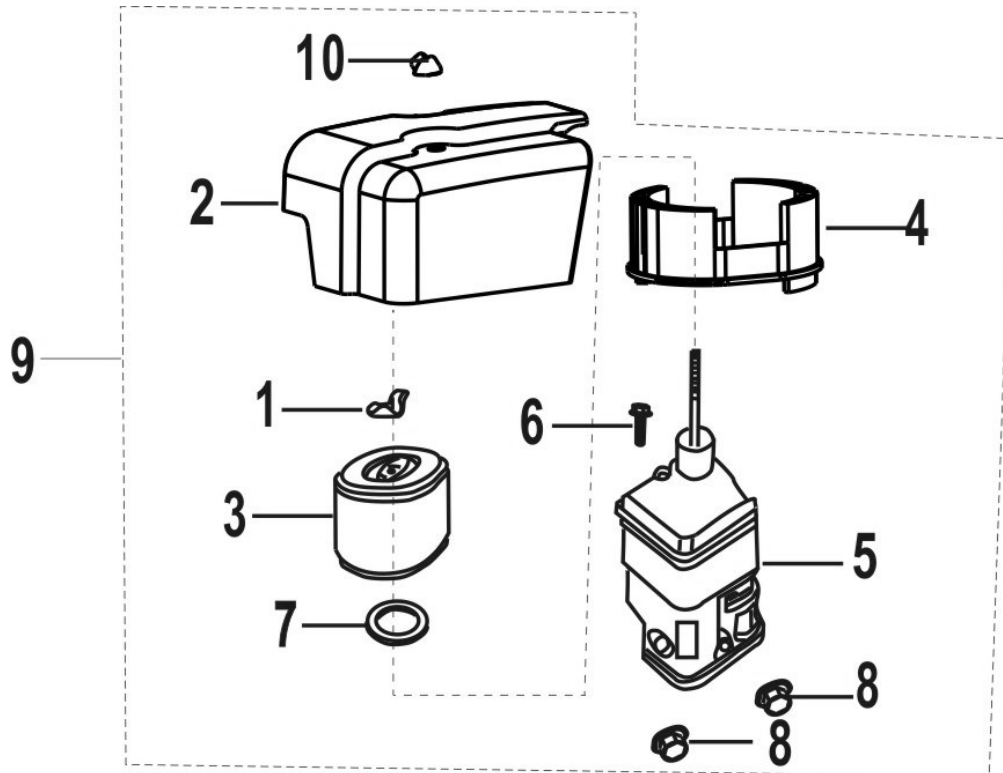
No.	Part No.	Description
15	16321/173F	Choke
16	16322/173F	Choke stem
17	16365/168F	Carburetor washer
18	16363/168F	Carburetor switch handle
19	16364/168F	Carburetor switch washer
20	GB/T16674	Screw M4
21	16362/168F	Carburetor switch cover
22	16323/173F	Choke switch shift fork
23	16260/173F	Throttle unit
24	16352/168F	Spring, mixture adjustment screw
25	16351/168F	Mixture adjustment screw
26	16320/173F	Choke unit
27	16210/173F	Float chamber
28	16100/188 F	Carburetor Assy
29	16230/173F	Float needle

Fuel Tank Assembly



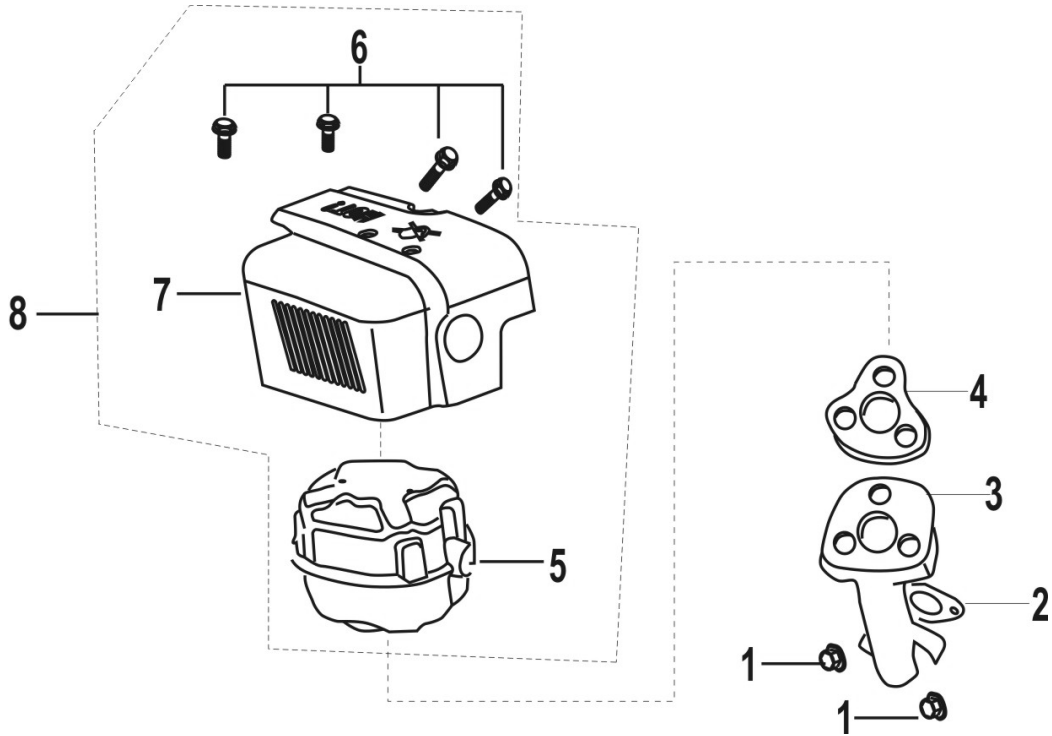
No.	Part No.	Description
1	16624/168F	Pipe clamp
2	16621/173F	Outlet pipe
3	GB/T16674	Bolt M8 × 45
4	16630/168F	Connector
5	16634/168F	Packing ring
6	16610/168F	Filter cup
7	16500/182F-B	Fuel tank
8	16414/168F	Packing ring
9	16411/168F-B	Fuel filler cap
10	16400/168F-B	Fuel filler cap with packing ring
11	GB/T6186	Nut M8
12	16541/182F-A	Fuel tank adapting piece
13	GB/T16674	Bolt M6 × 12
14	16922/173F	Protected sheath

Air Cleaner Assembly



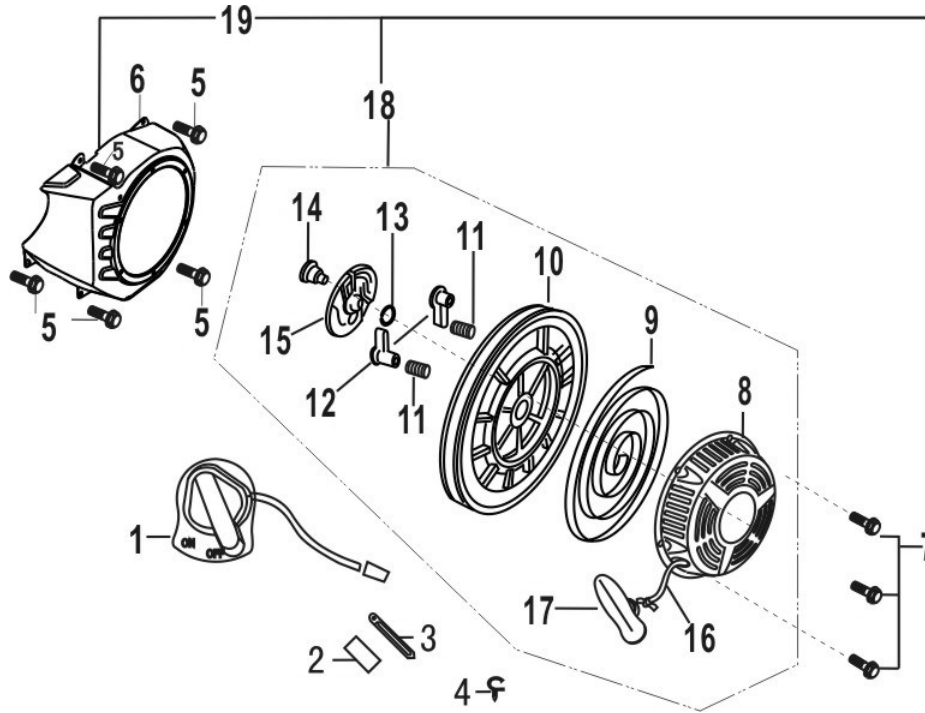
No.	Part No.	Description
1	GB62-88	Wing nut
2	17112/182F-B	Air cleaner cover
3	17120/182F	Filter element
4	17115/182F	Air cleaner aeration cover
5	17200/182F-B	Air cleaner housing
6	GB/16674	Bolt M6×28
7	17128/182F	Washer
8	GB/T6187.1	Nut M6
9	17100/182F-B	Air cleaner assy
10	17117/168F-B	Air cleaner cover nut

Muffler



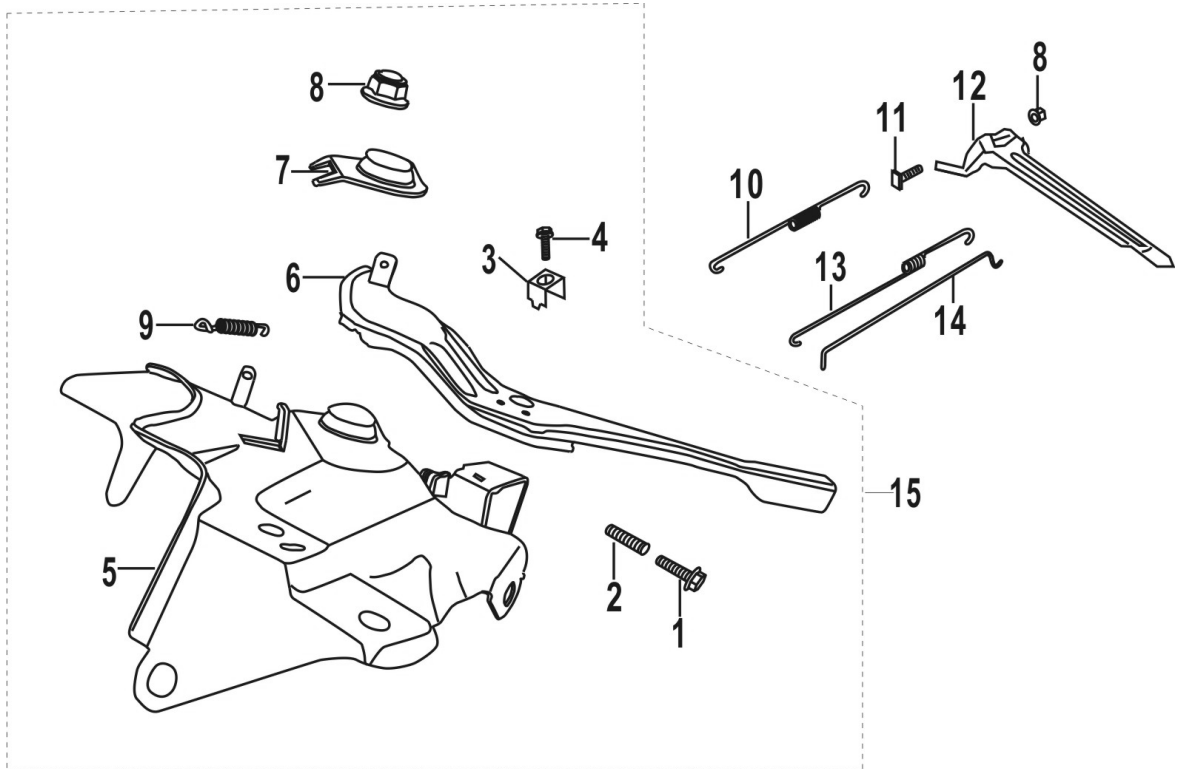
No.	Part No.	Description
1	GB6170-86	Nut M8
2	18215/182F	Exhaust pipe gasket
3	18117/173F	Exhaust pipe
4	18217/173F	Muffler gasket
5	18100/182F	Muffler
6	GB/T16674	Screw M5×8
7	18130/182F-B	Muffler hood assy
8	18000/182F-B	Muffler assy

Recoil Starter Assembly



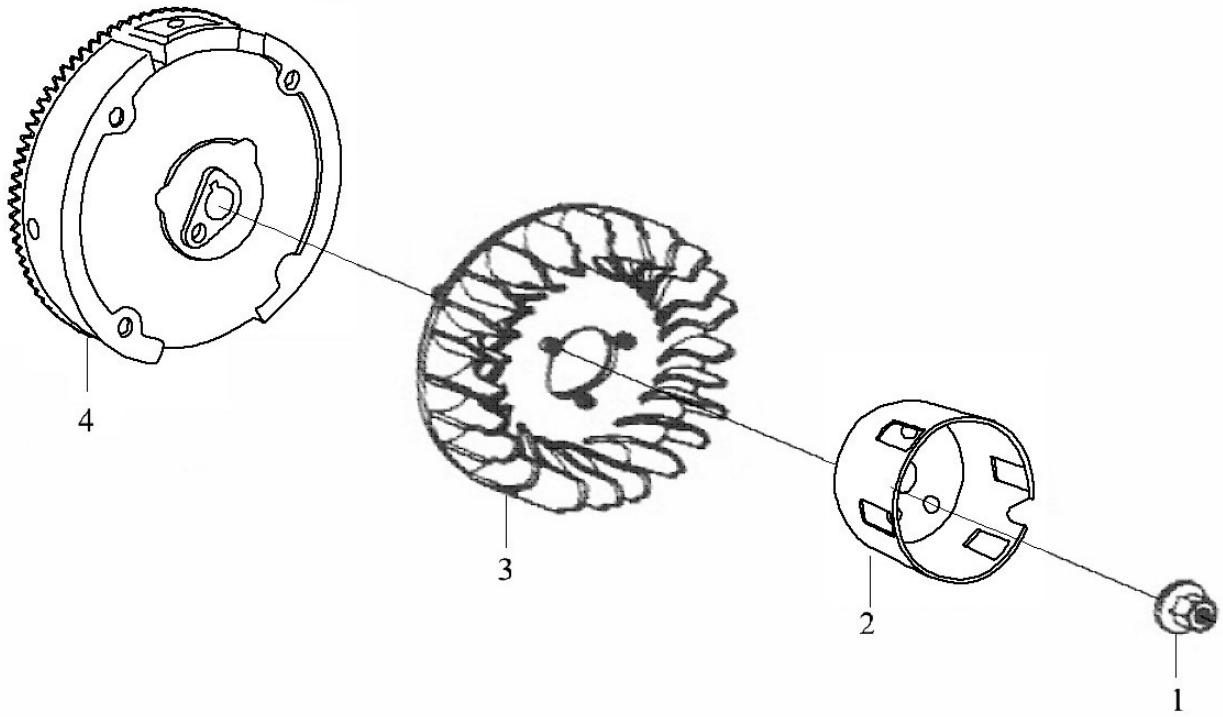
No.	Part No.	Description
1	27300/168F-B	Engine switch
2	19314/173F	Wire grommet
3	19316/173F	Clip
4	16628/173F	Plastic clip
5	GB/T16674	Bolt M6×12
6	19210/182F-E	Fan hood assy
7	GB/T16774.2	Bolt M6×8
8	23240/182F-A	Recoil starter casing
9	23214/173F	Spiral spring
10	23217/173F	Starter rolls
11	23212/173F	Ratchet spring
12	23215/173F	Ratchet
13	23211/173F	Friction spring
14	23213/173F	Set screw
15	23216/173F	Spring lid
16	23218/168F	Rope
17	23230/168-B	Pulling handle
18	23200/182F-B	Recoil starter
19	23100/182F-B	Recoil starter assy

Regulating Control System



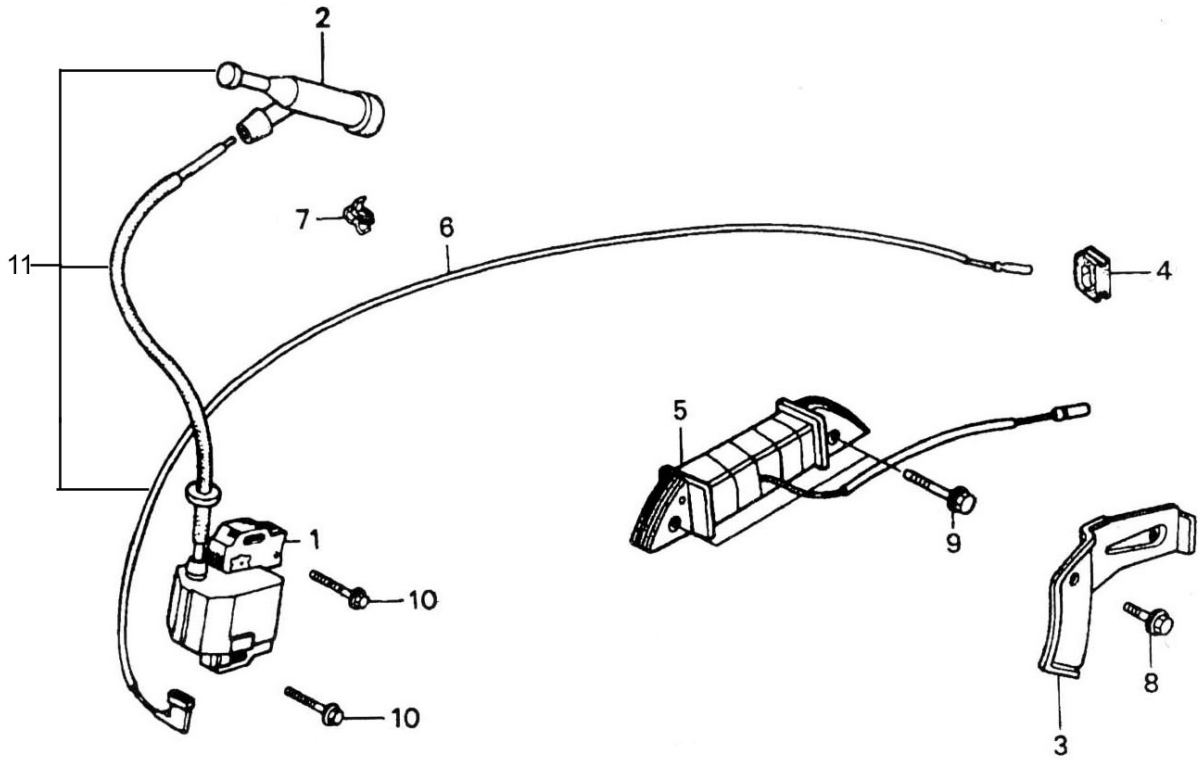
No.	Part No.	Description
1	GB818-85-H	Bolt M5×35
2	26215/182F	Regulating spring
3	26213/182F	Clamp
4	GB/T16674	Bolt M6×12
5	26211/182F	Support panel
6	26261/182F	Handgrip
7	26224/182F	Setting panel
8	GB6177-86	Nut M6
9	26214/182F	Spring
10	26117/182F	Back spring
11	26116/168F	Lock bolt
12	26114/182F	Regulating arm
13	26118/182F	Fine regulating spring
14	26115/182F	Pulling rod
15	26200/182F	Regulating frame assy

Fly Wheel



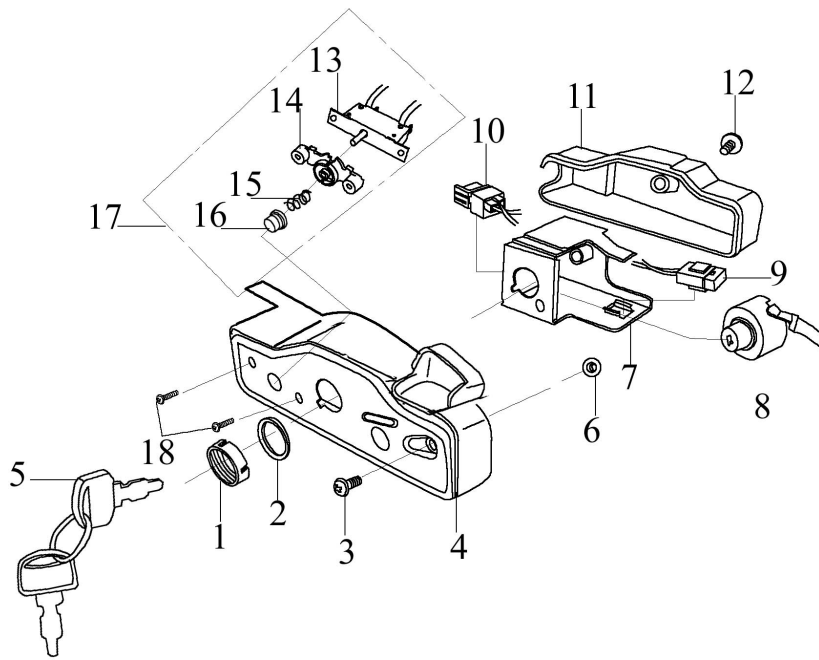
No.	Part No.	Description
1	23317/173F	Nut M16×1.5
2	23316/182F-E	Starting flange
3	19111/182F	Flywheel fan
4	23300/182F	Flywheel

Ignition Coil



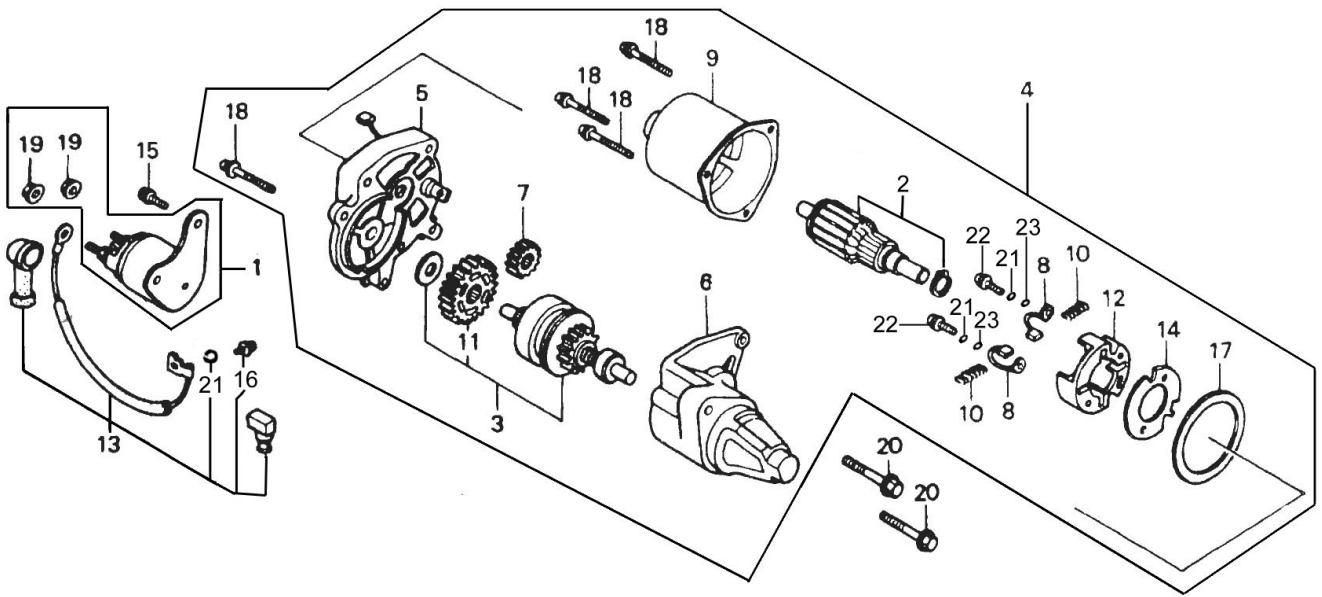
No.	Part No.	Description
1	27210/182F	Ignition coil
2	27220/173F	Cap, spark plug
3	24112/182FD	Clamper, cord
4	11117/173F	Rubber ring, crankcase
5	24130/182FD	Charge coil
6	27230/182F	Extinguishing cable
7	19316/173F	Cable tie
8	GB/T16674	Bolt, M6×12
9	GB/T16674	Bolt, M6×35
10	GB/T16674	Bolt, M6×25
11	27200/182F	Ignition coil unit

Starting Motor Control Box Assembly



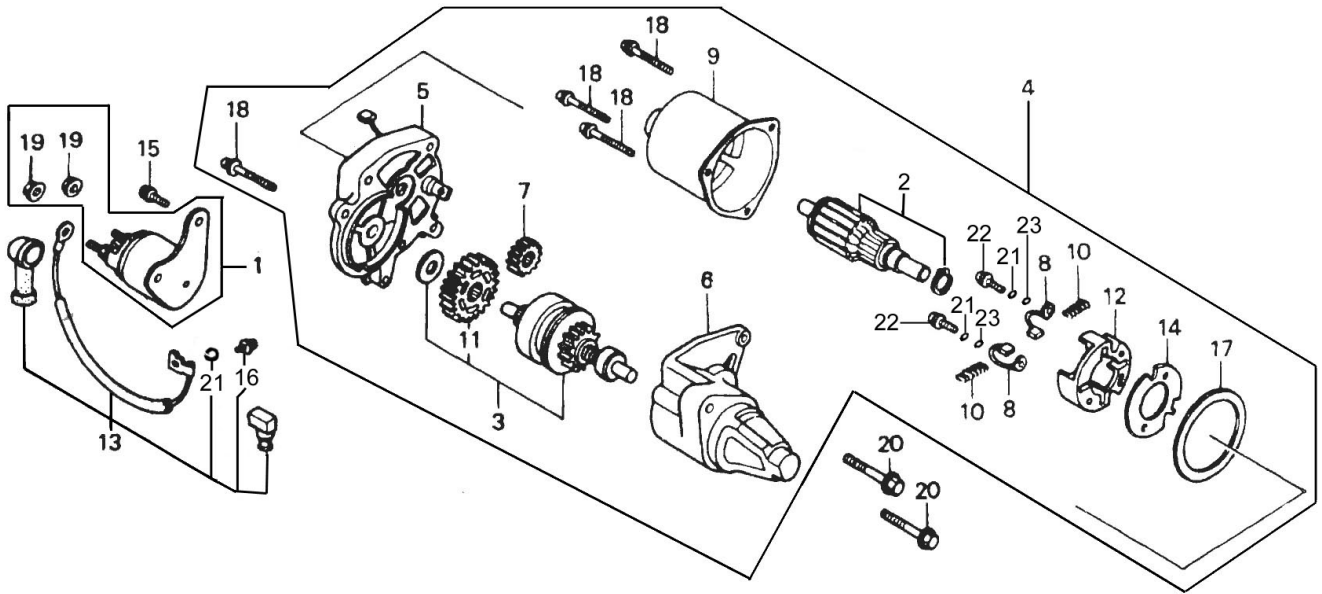
No.	Part No.	Description
1	24217/182FD	Clamp ring
2	24218/182FD	Gasket
3	GB818-86	Bolt M4×10
4	24211/182FD-E	Control front cover
5	24216/182FD	Key
6	GB6187-86	Nut M4
7	24212/182FD	Fixed mount
8	24215/182FD	Key switch
9	24230/182FD	Safety
10	24225/182FD	Diode assy
11	24213/182FD	Control rear cover
12	24214/182FD	Attachment bolt
13	24221/182FD	Protector
14	24222/182FD	Fixed mount
15	24223/182FD	Spring
16	24224/182FD	Cover
17	24220/182FD	Protector assy
18	GB818-85	Bolt M3×12

Starting Motor Assembly



No.	Part No.	Description
1	24120/182FD	Relay, start-up
2	24150/182FD	Rotor comp.
3	24110/182FD	Starting clutch
4	24100/182FD	Starting motor Assy
5	24122/182FD	Base, starting
6	24123/182FD	Housing, starting clutch
7	24119/182FD	Driven gear
8	24160/182FD	Brush comp.
9	24170/182FD	Stator comp.
10	24124/182FD	Spring, brush
11	24121/182FD	Reducing gear
12	24125/182FD	Stay, brush
13	24118/182FD	Cable, starting motor
14	24127/182FD	Insulator
15	GB/T818-85	Bolt, M5×14
16	GB/T818-85	Screw, M4×6

Starting Motor Assembly



No.	Part No.	Description
17	24128/182FD	Packing ring
18	GB/T818-85	Screw, M5×32
19	GB/T6170-86	Nut, M6
20	GB/16674	Bolt, M8×35
21	GB/T93-87	Spring washer, 4
22	GB/T818-85	Screw, M4×14
23	GB/T97.1-85	Washer, 4



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