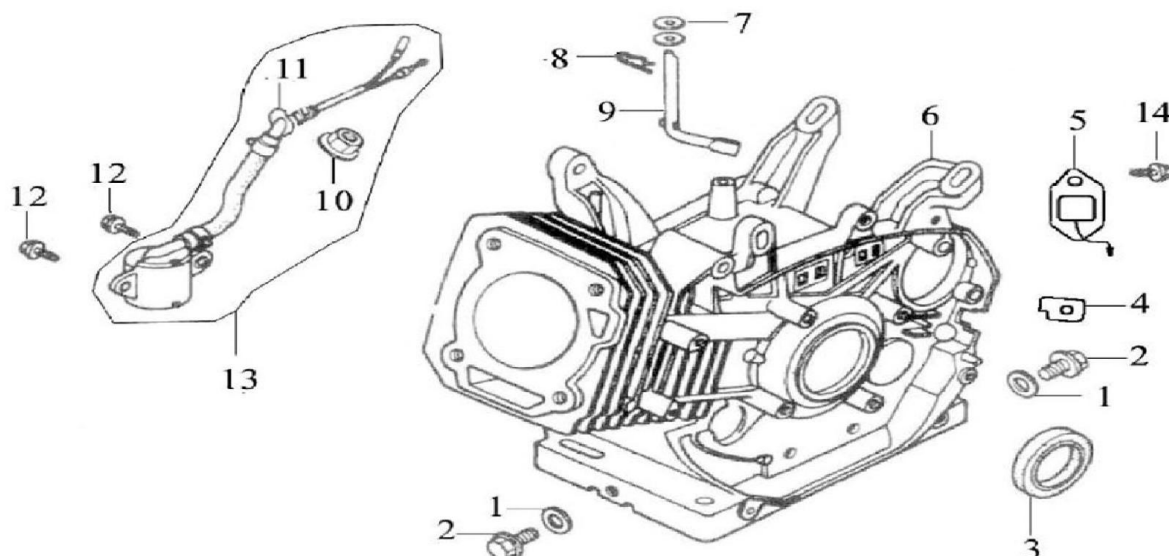
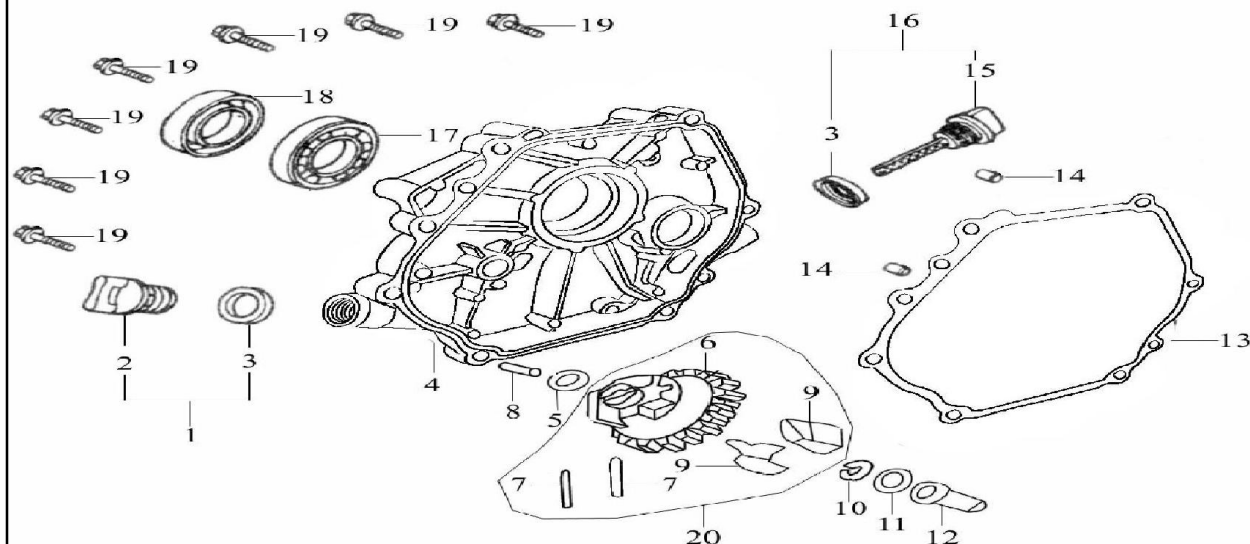


## E-1 CRANKCASE ASSY.

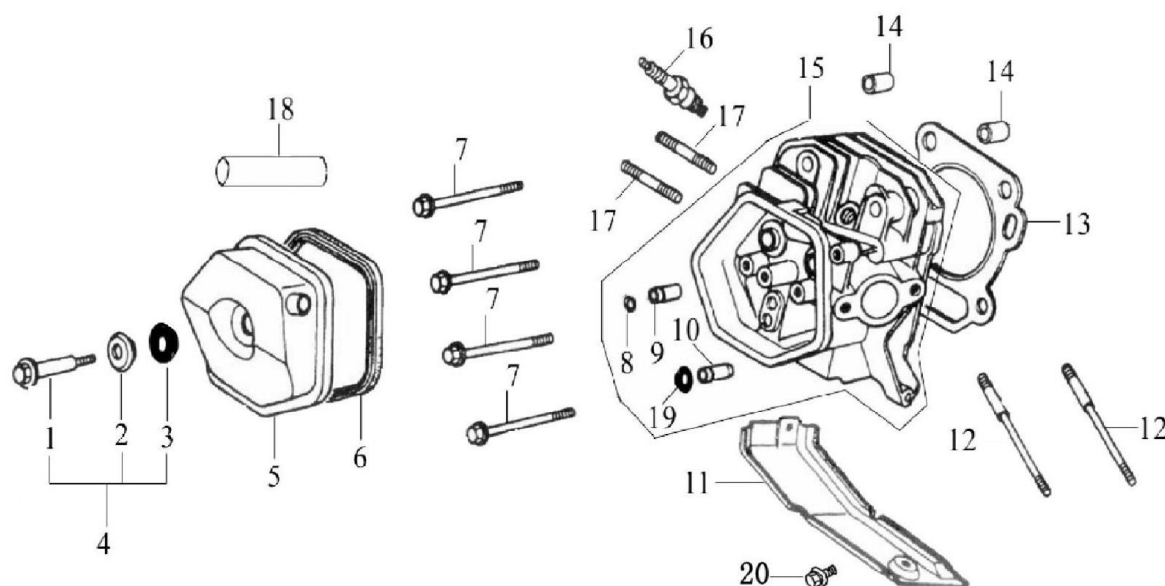


|    |        |                               |  |
|----|--------|-------------------------------|--|
| 1  |        | Washer                        |  |
| 2  |        | Drain plug                    |  |
| 3  | 990733 | Oil seal, crankshaft          |  |
| 4  |        | Seal                          |  |
| 5  | 990680 | Diode                         |  |
| 6  | 990634 | Crankcase                     |  |
| 7  |        | Oil seal, regulating sway bar |  |
| 8  |        | Washer                        |  |
| 9  |        | Split pin                     |  |
| 10 |        | Regulating sway bar           |  |
| 11 |        | Nut M10                       |  |
| 12 |        | O-ring                        |  |
| 13 |        | Bolt M6×14                    |  |
| 14 | 990691 | Oil sensor                    |  |

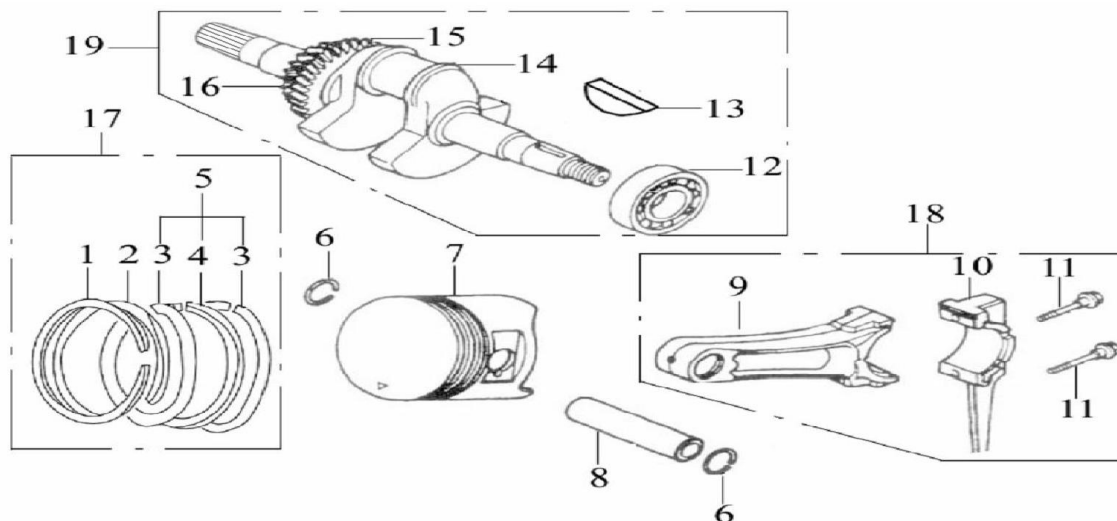
**E-2 CRANKCASE COVER ASSY.**

|    |        |                             |  |
|----|--------|-----------------------------|--|
| 1  | 990777 | Oil plug with Seal          |  |
| 2  |        | Oil plug                    |  |
| 3  |        | Seal                        |  |
| 4  | 990653 | Crankcase cover             |  |
| 5  |        | Washer, driven gear         |  |
| 6  |        | Driven gear, regulator      |  |
| 7  |        | Pin                         |  |
| 8  |        | Regulating shaft            |  |
| 9  |        | Flying block                |  |
| 10 |        | Snap ring                   |  |
| 11 |        | Washer                      |  |
| 12 |        | Sliding sleeve              |  |
| 13 | 990702 | Gasket, crankcase           |  |
| 14 |        | Set pin $\Phi 8 \times 12$  |  |
| 15 |        | Dipstick                    |  |
| 16 | 990771 | Dipstick with seal          |  |
| 17 | 990724 | Bearing 6206                |  |
| 18 |        | Oil seal, crankshaft        |  |
| 19 |        | Bolt M8 $\times$ 35         |  |
| 20 | 990711 | Driven gear, regulator assy |  |

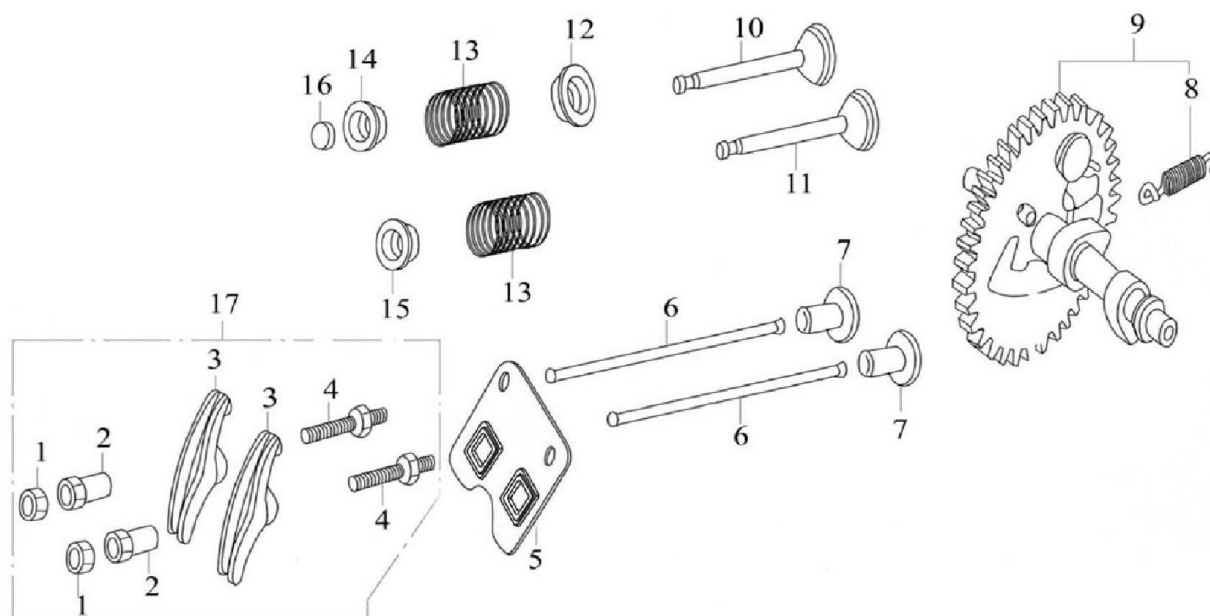
## E-3 CYLINDER HEAD & CYLINDER HEAD COVER ASSY



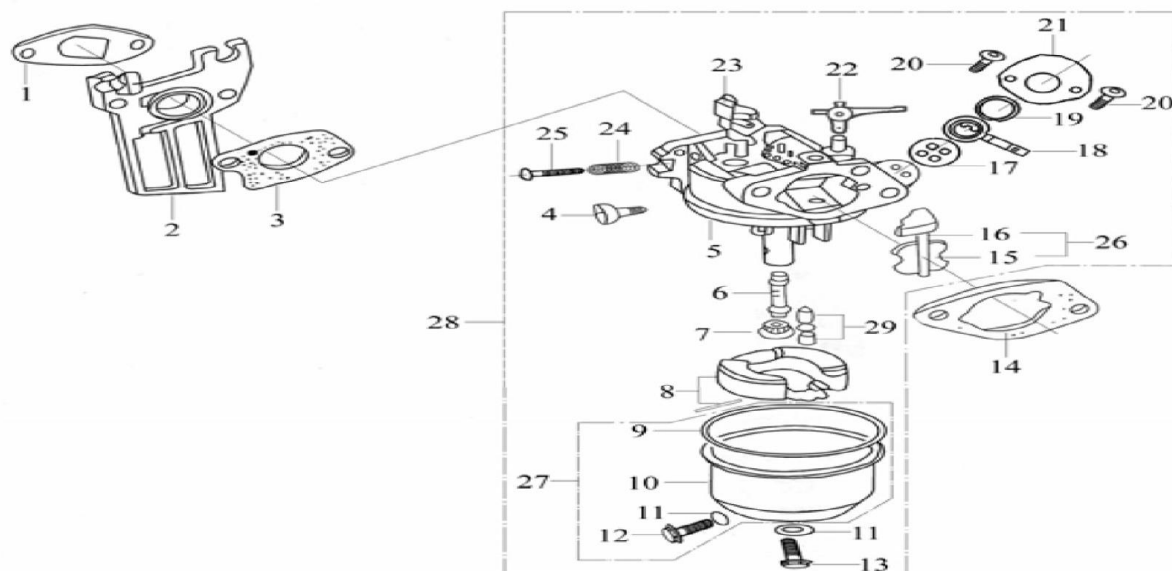
|    |        |                             |  |
|----|--------|-----------------------------|--|
| 1  |        | Bolt                        |  |
| 2  |        | Washer                      |  |
| 3  | 990368 | Rubber seal                 |  |
| 4  |        | Bolt                        |  |
| 5  | 990351 | Cylinder head cover Assy    |  |
| 6  | 990361 | Gasket, cylinder head cover |  |
| 7  |        | Bolt                        |  |
| 8  |        | Circip                      |  |
| 9  |        | Exhaust valve guide         |  |
| 10 |        | Intake valve guide          |  |
| 11 |        | Lead wind cover             |  |
| 12 | 990401 | Stud                        |  |
| 13 | 990372 | Gasket, cylinder head       |  |
| 14 | 990381 | Set pin                     |  |
| 15 | 990432 | Cylinder head Assy          |  |
| 16 | 990420 | Spark plug F7RTC            |  |
| 17 | 990411 | Stud                        |  |
| 18 |        | Air duct                    |  |
| 19 | 990365 | Seal                        |  |
| 20 |        | Bolt:M6×12                  |  |

**E-4 CRANKSHAFT, PISTON & CONNECTING**

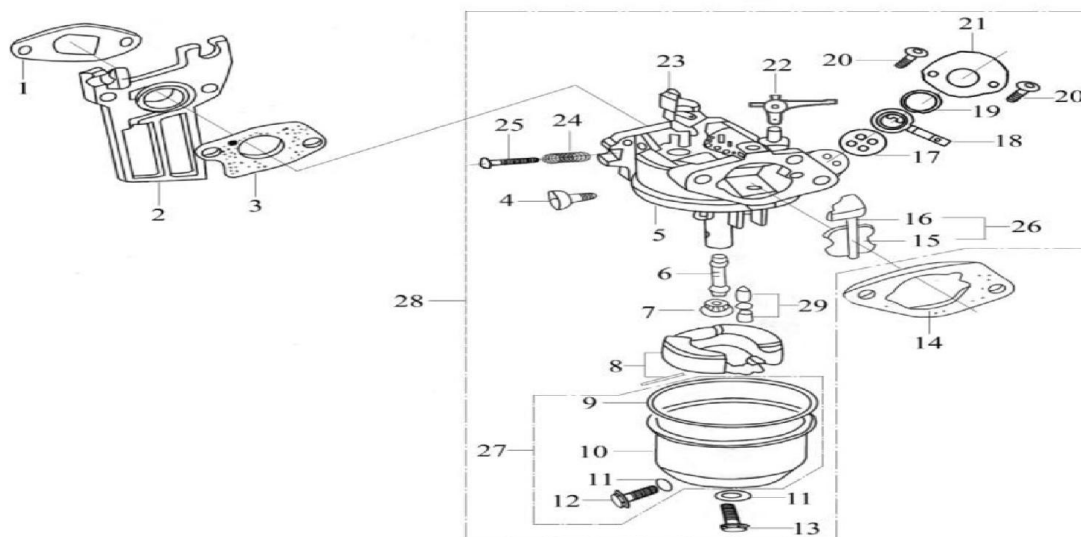
|    |        |                      |  |
|----|--------|----------------------|--|
| 1  |        | Piston ring ( I )    |  |
| 2  |        | Piston ring ( II )   |  |
| 3  |        | Side rail            |  |
| 4  |        | Expander             |  |
| 5  |        | Scraper ring set     |  |
| 6  | 990561 | Piston pin circlip   |  |
| 7  | 990573 | Piston               |  |
| 8  | 990582 | Piston pin           |  |
| 9  |        | Shank                |  |
| 10 |        | Connecting rod cover |  |
| 11 |        | Bolt                 |  |
| 12 | 990724 | Bearing 6206         |  |
| 13 |        | Woodruff key         |  |
| 14 |        | Crankshaft           |  |
| 15 |        | Drive gear           |  |
| 16 |        | Timing driving gear  |  |
| 17 | 990553 | Piston ring set      |  |
| 18 | 990592 | Connecting rod assy  |  |
| 19 | 990603 | Crankshaft assy      |  |

**E-5 COMBINATION OF CAM SHAFT & VALVE ROCKER**

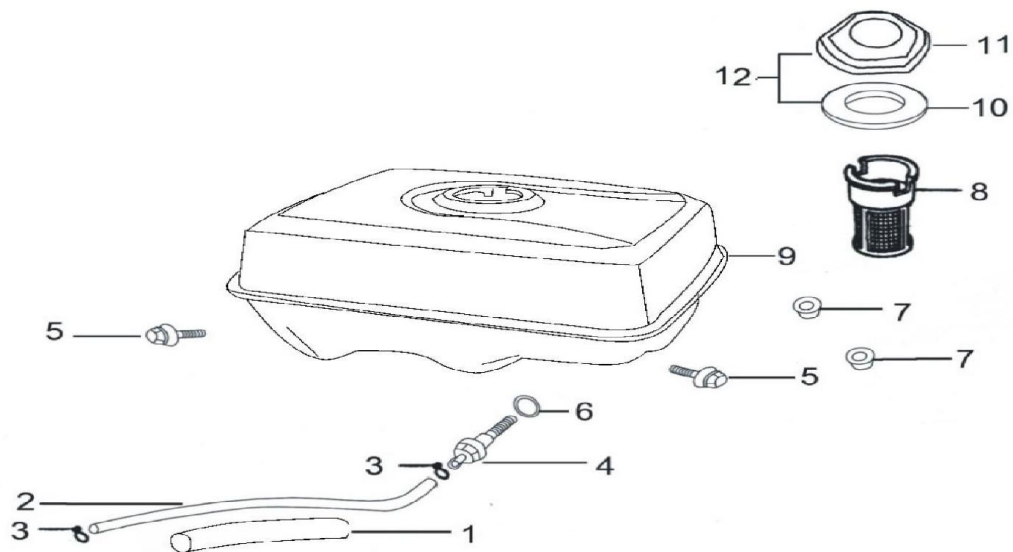
|    |        |                                |  |
|----|--------|--------------------------------|--|
| 1  |        | Lock nut                       |  |
| 2  |        | Sleeve                         |  |
| 3  |        | Valve rocker                   |  |
| 4  |        | Adjusting bolt for valve gap   |  |
| 5  | 990452 | Pusher guide                   |  |
| 6  | 990462 | Pusher                         |  |
| 7  | 990472 | Tappet                         |  |
| 8  |        | Extension spring               |  |
| 9  | 990482 | Camshaft assy                  |  |
| 10 | 990492 | Exhaust valve                  |  |
| 11 | 990502 | Intake valve                   |  |
| 12 |        | Spring retainer, exhaust valve |  |
| 13 | 990512 | Valve spring                   |  |
| 14 | 990532 | Spring seat, exhaust valve     |  |
| 15 | 990522 | Spring seat, intake valve      |  |
| 16 | 990541 | Cap                            |  |
| 17 | 990441 | Valve rocker assy              |  |

**E-6 CARBURETOR ASSY**

|    |        |                           |  |
|----|--------|---------------------------|--|
| 1  | 990241 | Inlet gasket              |  |
| 2  | 990252 | Connecting block          |  |
| 3  | 990261 | Carburettor gasket        |  |
| 4  |        | Idle adjustment screw     |  |
| 5  |        | Mixture chamber body      |  |
| 6  |        | Main nozzle               |  |
| 7  |        | Main jet                  |  |
| 8  |        | Float                     |  |
| 9  | 990281 | Float chamber gasket      |  |
| 10 |        | Float chamber             |  |
| 11 |        | Washer                    |  |
| 12 |        | Float chamber drain Screw |  |
| 13 |        | Screw                     |  |
| 14 | 990271 | Air cleaner gasket        |  |
| 15 |        | Choke                     |  |
| 16 |        | Choke stem                |  |
| 17 |        | Airproof washer           |  |
| 18 |        | Throttle lever            |  |
| 19 |        | Washer                    |  |
| 20 |        | Screw M4                  |  |

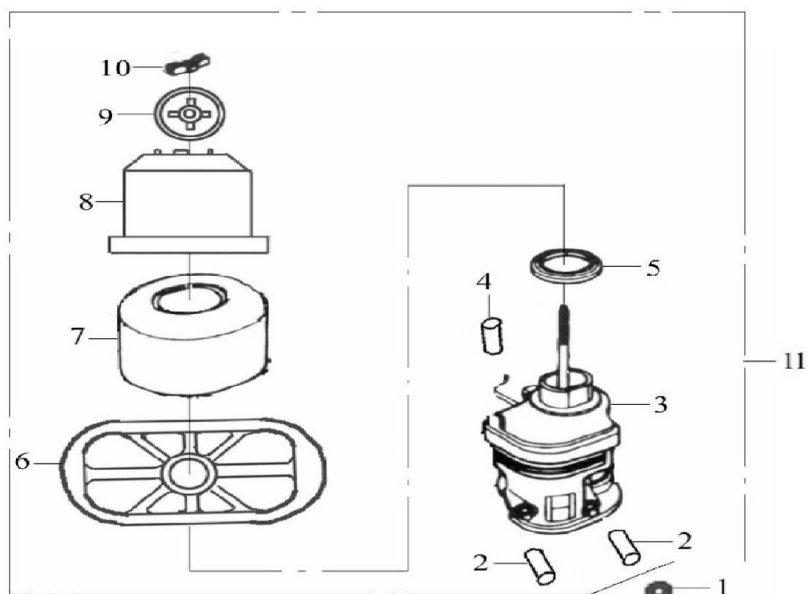
**E-6 CARBURETOR ASSY**

|    |        |                                  |  |
|----|--------|----------------------------------|--|
| 21 |        | Cover                            |  |
| 22 | 990290 | Choke switch                     |  |
| 23 |        | Throttle unit                    |  |
| 24 |        | Spring, mixture adjustment screw |  |
| 25 |        | Mixture adjustment screw         |  |
| 26 |        | Choke unit                       |  |
| 27 |        | Float chamber                    |  |
| 28 | 990302 | Carburettor Assy                 |  |
| 29 |        | Float needle                     |  |

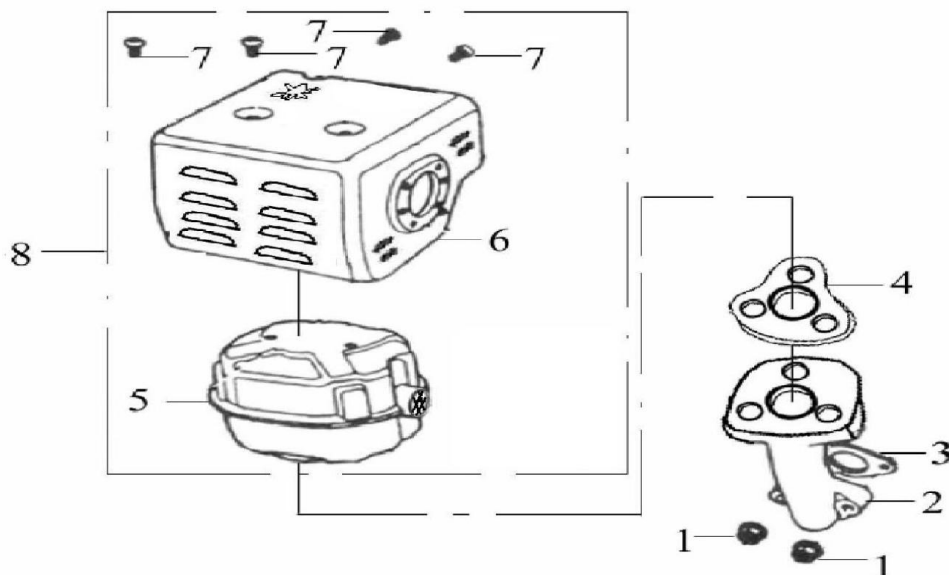
**E-7 FUEL TANK ASSY**

|    |        |                                   |  |
|----|--------|-----------------------------------|--|
| 1  |        | Pipe                              |  |
| 2  |        | Outlet pipe                       |  |
| 3  |        | Pipe clamp                        |  |
| 4  | 990020 | Connector                         |  |
| 5  |        | Bolt M8×25                        |  |
| 6  |        | Packing ring                      |  |
| 7  |        | Nut M8                            |  |
| 8  | 990003 | Fuel tank                         |  |
| 9  |        | Filter cup                        |  |
| 10 |        | Packing ring                      |  |
| 11 |        | Fuel filler cap                   |  |
| 12 | 990010 | Fuel filler cap with packing ring |  |

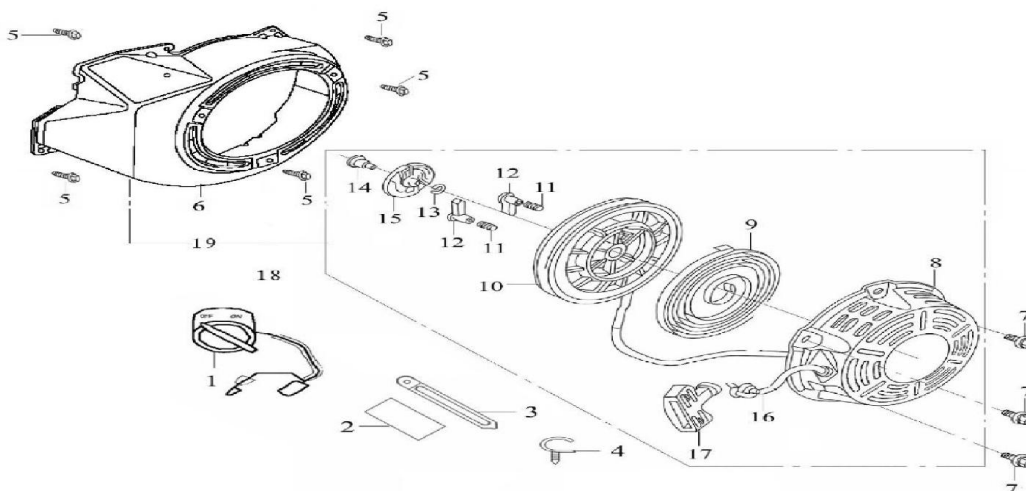


**E-8 AIR CLEANER ASSY**

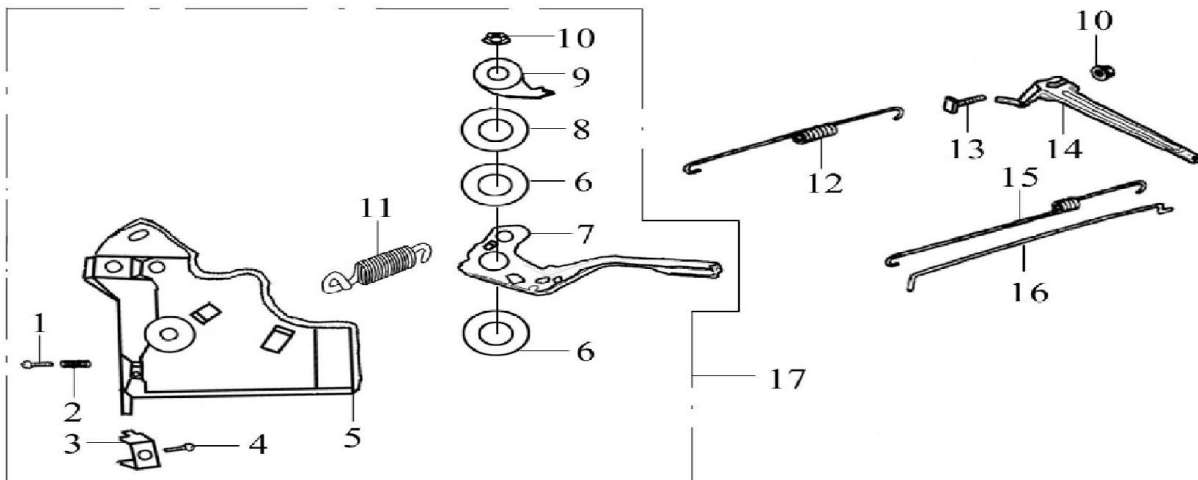
|    |        |                     |  |
|----|--------|---------------------|--|
| 1  |        | Nut M6              |  |
| 2  |        | Sleeve A            |  |
| 3  |        | Air cleaner housing |  |
| 4  |        | Sleeve B            |  |
| 5  |        | Gasket              |  |
| 6  |        | Filter bracket      |  |
| 7  |        | Filter element      |  |
| 8  |        | Air cleaner cover   |  |
| 9  |        | Air cleaner lid     |  |
| 10 | 990030 | Wing nut            |  |
| 11 |        | Air cleaner assy    |  |

**E-9 MUFFLER**

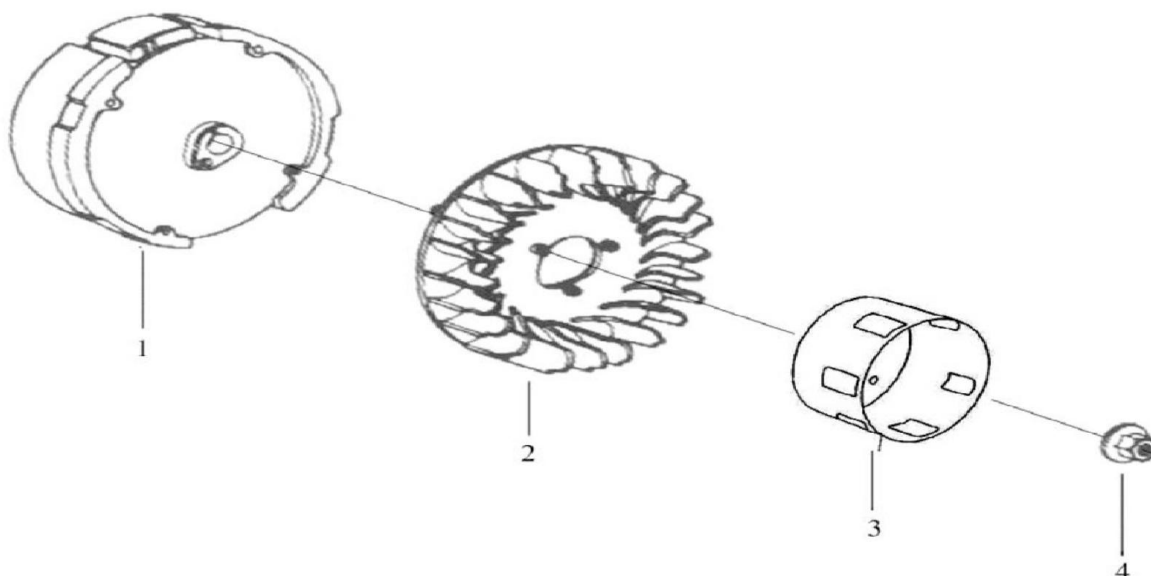
|   |        |                     |  |
|---|--------|---------------------|--|
| 1 |        | Nut M8              |  |
| 2 | 990070 | Exhaust pipe        |  |
| 3 | 990061 | Exhaust pipe gasket |  |
| 4 | 990066 | Muffler gasket      |  |
| 5 |        | Muffler             |  |
| 6 |        | Muffler Hood assy   |  |
| 7 |        | Screw M5×8          |  |
| 8 | 990082 | Muffler assy        |  |

**E-10 RECOIL STARTER**

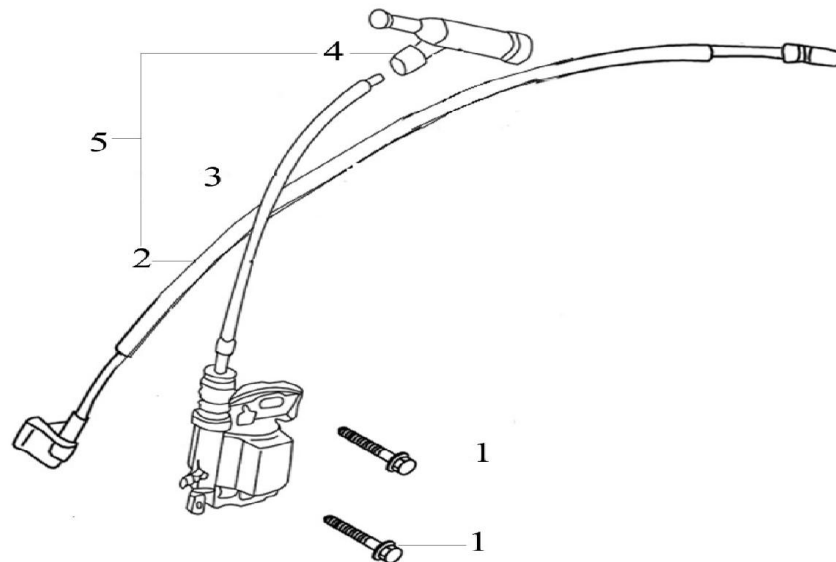
|    |        |                     |  |
|----|--------|---------------------|--|
| 1  | 990110 | Engine switch       |  |
| 2  |        | Wire grommet        |  |
| 3  |        | Clip                |  |
| 4  |        | Plastic clip        |  |
| 5  | 990102 | Bolt M6×12          |  |
| 6  |        | Fan hood assy       |  |
| 7  | 990100 | Bolt M6×8           |  |
| 8  |        | Casing              |  |
| 9  | 990120 | Spiral spring       |  |
| 10 | 990131 | Starter rolls       |  |
| 11 | 990121 | Ratchet spring      |  |
| 12 | 990125 | Ratchet             |  |
| 13 | 990122 | Friction spring     |  |
| 14 | 990103 | Set screw           |  |
| 15 | 990126 | Spring lid          |  |
| 16 |        | Rope                |  |
| 17 | 990108 | Pulling handle      |  |
| 18 |        | Recoil starter      |  |
| 19 | 990152 | Recoil starter assy |  |

**E-11 REGULATING CONTROLS SYSTEM**

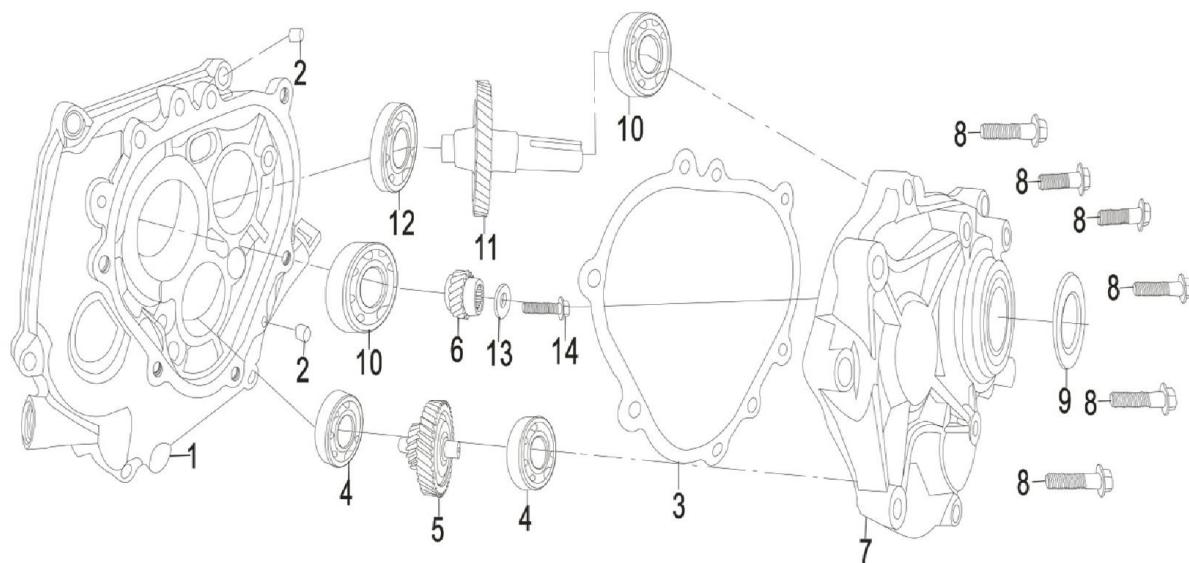
|    |        |                        |  |
|----|--------|------------------------|--|
| 1  |        | Bolt M5×35             |  |
| 2  |        | Regulating spring      |  |
| 3  |        | Clamp                  |  |
| 4  |        | Bolt M6×12             |  |
| 5  |        | Support panel          |  |
| 6  |        | Washer                 |  |
| 7  |        | Handgrip               |  |
| 8  |        | Spring patch           |  |
| 9  |        | Setting panel          |  |
| 10 |        | Nut M6                 |  |
| 11 |        | Spring                 |  |
| 12 | 990162 | Back spring            |  |
| 13 |        | Lock bolt              |  |
| 14 |        | Regulating arm         |  |
| 15 | 990171 | Fine Regulating Spring |  |
| 16 | 990182 | Pulling rod            |  |
| 17 | 990192 | Regulating frame assy  |  |

**E-12 FLYWHEEL**

|   |        |                 |  |
|---|--------|-----------------|--|
| 1 | 990231 | Nut M16×1.25    |  |
| 2 | 990222 | Starting flange |  |
| 3 | 990212 | Flywheel fan    |  |
| 4 | 990202 | Flywheel        |  |

**E-13 IGNITION COIL**

|   |        |                    |  |
|---|--------|--------------------|--|
| 1 |        | Screw M6×30-F      |  |
| 2 |        | Engine Stop Cable  |  |
| 3 |        | Ignition Coil      |  |
| 4 |        | Spark Plug Cap     |  |
| 5 | 990671 | Ignition Coil Assy |  |

**E-14 REDUCER ASSY**

|    |        |                            |  |
|----|--------|----------------------------|--|
| 1  |        | Crankcase cover            |  |
| 2  |        | Set pin $\phi 8 \times 12$ |  |
| 3  | 990741 | Gasket, reducer case       |  |
| 4  | 990726 | Beating 6302               |  |
| 5  | 990742 | Intermediate shaft gear    |  |
| 6  | 990743 | Active Gear                |  |
| 7  | 990740 | Cover , reducer case       |  |
| 8  |        | Bolt M8 $\times 35$        |  |
| 9  | 990733 | Oil seal, power shaft      |  |
| 10 | 990724 | Beating 6206               |  |
| 11 | 990744 | Output shaft               |  |
| 12 | 990722 | Beating 6204               |  |
| 13 |        | Washer                     |  |
| 14 |        | Bolt M8 $\times 25$        |  |