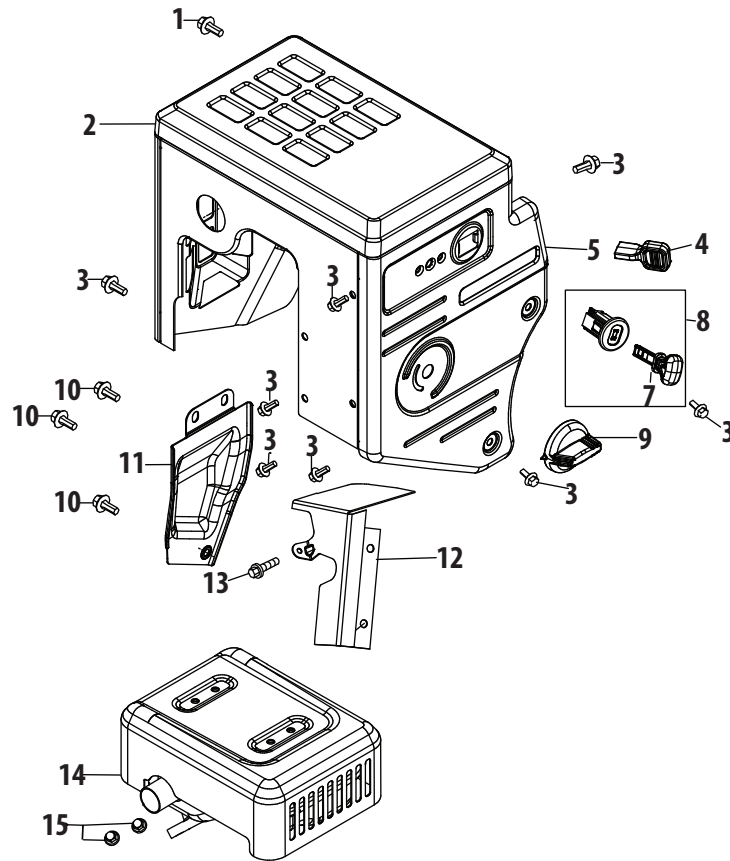
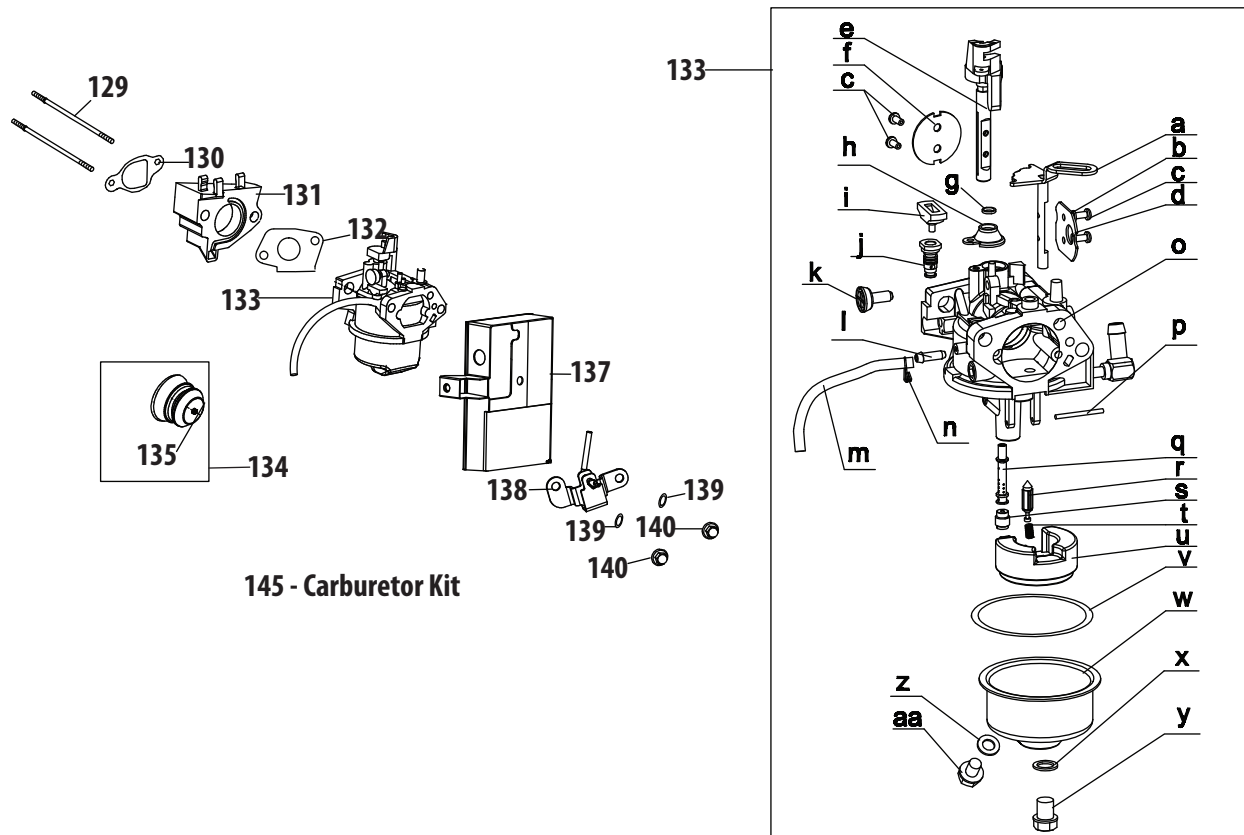


478-SUB Muffler & Controls



Ref.	Part Number	Description
1	710-04915	Bolt, M6x12
2	951-11194	Muffler Shield
3	710-04915	Bolt M6x12
4	951-10757	Throttle Control Knob
5	951-11594	Control Panel
7	731-05632	Key
8	951-10637	Key Switch Assembly
9	951-11302	Choke Knob
10	710-04914	Bolt M6x10
11	951-11181	Exhaust Pipe Shield
12	951-11227	Carb Isolator Bracket
13	710-04968	Bolt M6x16
14	951-11195	Muffler Assembly
15	712-05015	Nut, M8

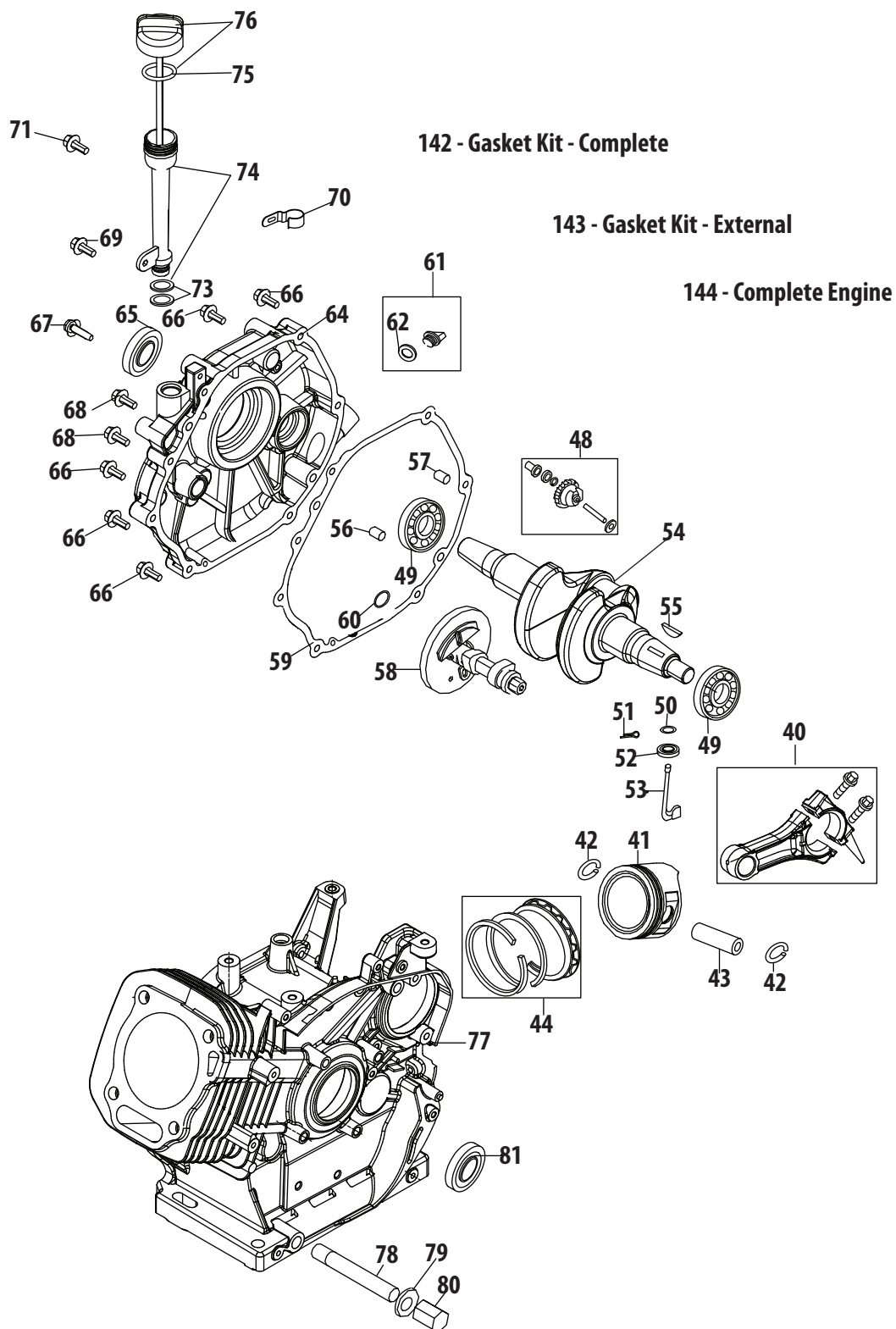


145 - Carburetor Kit

Ref.	Part Number	Description
129	710-04963	Stud M6-8×104
130	951-11225	Carburetor Insulator Gasket
131	951-11222	Carburetor Insulator
132	951-11223	Carburetor Gasket
133	951-14024A	Carburetor Assembly
134	951-10639A	Primer Assembly
135	951-11824	Primer
137	951-11190	Heater Box
138	951-11192	Choke Control
139	736-04477	Lock Washer
140	712-05015	Nut M6
145	951-12762A	Carburetor Kit (Incl. i,j,p,q,r,s,t,u,v,x,z)
a	n/a	Choke Shaft
b	736-04638	Lock Washer
c	710-05469	Screw M3×6
d	n/a	Choke Plate
e	n/a	Throttle Shaft
f	n/a	Throttle Plate
g	n/a	Gasket

Ref.	Part Number	Description
h	n/a	Throttle Shaft Cover
i	n/a	Idle Jet Rivet
j	n/a	Idle Jet Assembly
k	n/a	Idle Speed Adjusting Screw
l	n/a	Primer Pipe
m	751-11991	Primer Hose
n	951-11906	Hose Clamp
o	n/a	Carburetor Body
p	n/a	Float Pin
q	n/a	Emulsion Tube
r	n/a	Needle Valve
s	n/a	Main Jet
t	n/a	Needle Valve Spring
u	n/a	Float
v	951-11970	Fuel Bowl Gasket
w	n/a	Fuel Bowl
x	951-11348	Fuel Bowl Gasket
y	710-04945	Fuel Bowl Mounting Bolt
z	951-11349	Fuel Drain Plug Gasket
aa	710-04938	Fuel Drain Plug

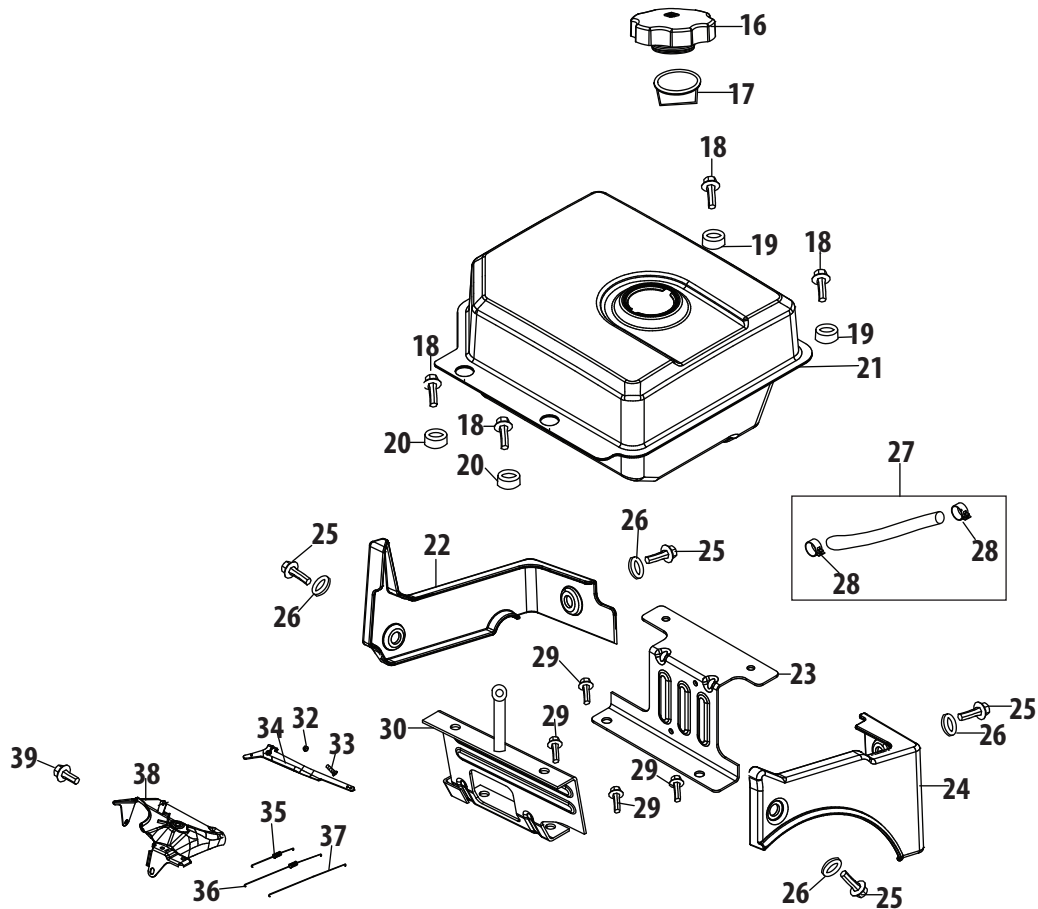
478-SUB Crankcase



Ref.	Part Number	Description
40	951-12066	Connecting Rod Assembly
41	951-12043	Piston
42	951-11632	Piston Pin Snap Ring
43	951-12044	Piston Pin
44	951-12387	Piston Ring Set
48	751-12068	Governor Gear/Shaft Assembly
49	951-12069	Radial Ball Bearing
50	736-04453	Washer 8×20×0.8
51	714-04077	Cotter Pin
52	951-11958	Governor Seal
53	951-12071	Governor Arm Shaft
54	951-11229	Crankshaft Kit (Incl. 49,54,55,65,81)
55	951-10307	Woodruff Key
56	715-04102	Dowel Pin 9×12
57	715-04092	Dowel Pin 7×14
58	951-12072	Camshaft Assembly
59	951-11374	Crankcase Cover Gasket
60	736-04545	Washer 16×24×0.5
61	951-11283	Oil Fill Plug Assembly
62	951-11577	O-Ring
64	951-12395	Crankcase Cover
64	951-11228	Crankcase Cover Kit (Incl. 49,59,50,64-68)
65	951-11372	Oil Seal, 30×46×8

Ref.	Part Number	Description
66	710-04971	Bolt M8×38
67	710-04972	Bolt M8×45
68	710-05052	Bolt M8×35
69	710-04968	Bolt M6×16
70	951-11320	Dipstick Clamp
71	710-05349	Bolt M6×8
73	951-11904	Oil Fill Tube O-Ring
74	951-12073	Oil Fill Tube Assembly
75	951-11381	Dipstick O-Ring
76	951-11971A	Dipstick Assembly
77	951-11230	Crankcase Kit (Incl. 49,52,77,81)
	951-11187	Short Block Assembly (Incl. 40-44,48-68,77-81,103, 106,107,109,111,124,130-132)
78	951-11350	Oil Drain Pipe
79	736-04440	Washer 10×16×1.5
80	710-04906	Oil Drain Plug
81	751-11498	Oil Seal 30×46×8
142	951-11209	Gasket Kit - Complete (Incl. 52,59,65,79,81,107, 109,124,130-132)
143	951-11210	Gasket Kit - External (Incl. 79,109,124,130-132)
144	952Z478-SUB	Complete Engine

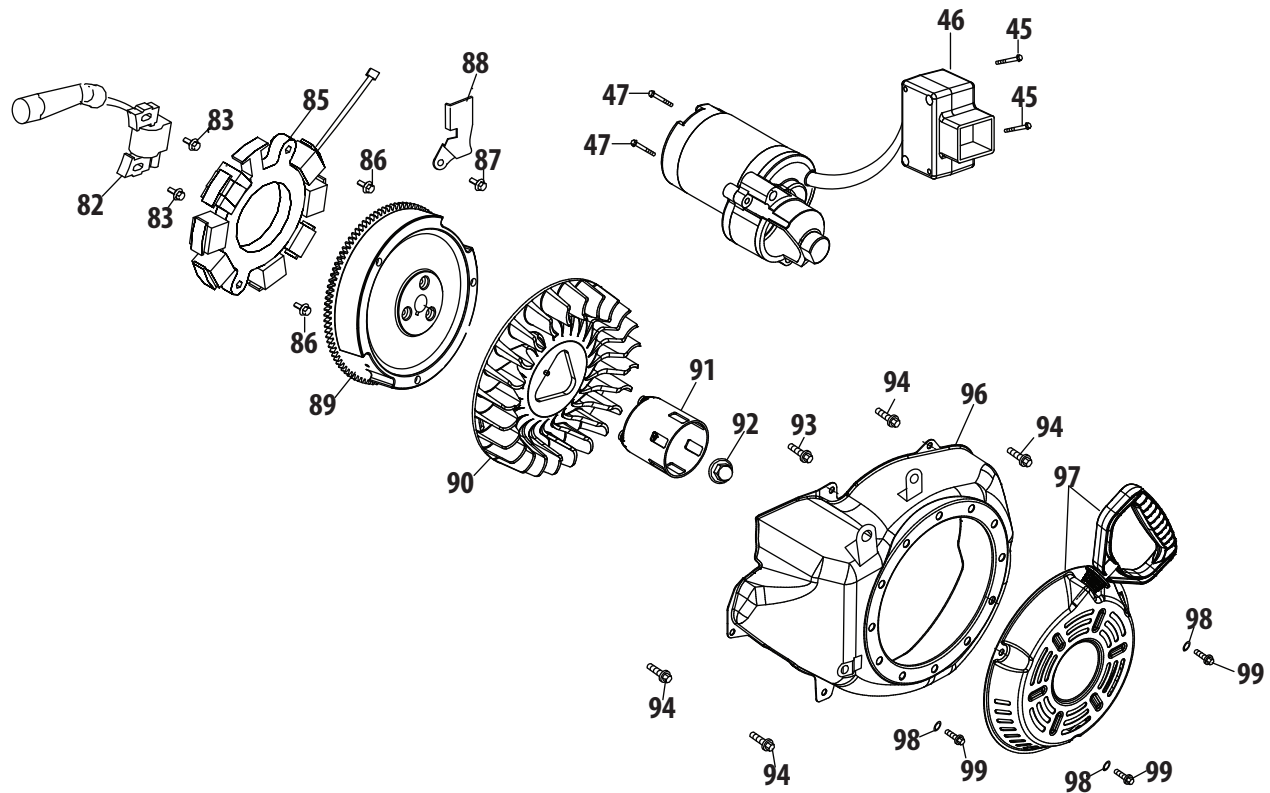
478-SUB Fuel Tank & Mounting



Ref.	Part Number	Description
16	951-12533	Fuel Cap Assembly
17	951-11933	Fuel Level Indicator
18	710-04970	Bolt M8×20
19	750-05312	Bushing
20	750-05313	Bushing
21	951-11201	Fuel Tank Assembly
22	951-11184	Governor Cover
23	951-11183	Rear Mainting Bracket Assy.
24	951-12385	Decorate Cover
25	710-04968	Bolt M6×16
26	736-04452	Bush
27	951-11200	Fuel Line Kit

Ref.	Part Number	Description
28	951-11700	Fuel Hose Clamp
29	710-04921	Bolt M8×14
30	951-11182	Gas Tank Support Bracket
32	712-04212	Nut M6
33	710-04908	Governor Arm Bolt
34	951-11231	Governor Arm
35	951-11202	Governor Spring
36	951-11203	Throttle Linkage Spring
37	951-11204	Throttle Linkage
38	951-11213	Primer Bracket
39	710-04915	Bolt, M6×12

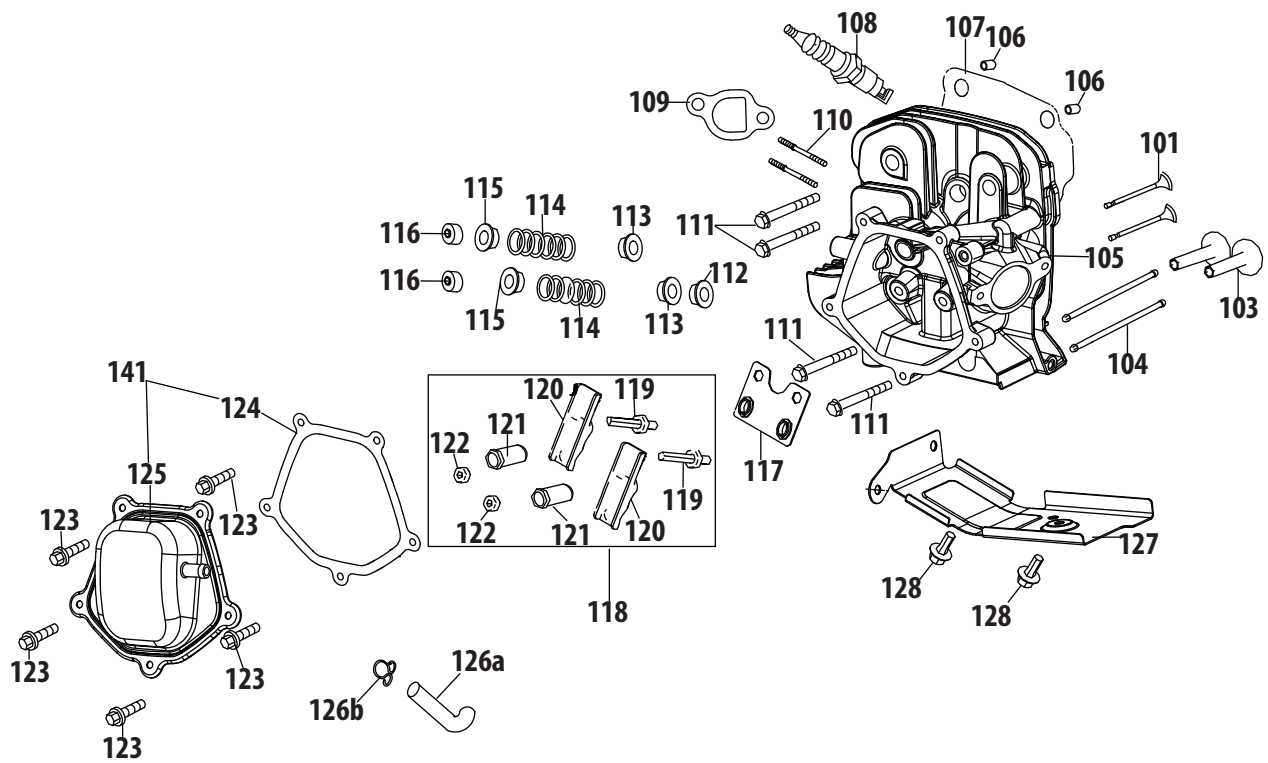
478-SUB Starting System & Blower Housing



Ref.	Part Number	Description
45	710-04965	Bolt M4×55
46	951-11196	Electric Starter
47	710-04967	Bolt M8×55
82	951-11498	Ignition Coil Assembly
83	951-11197	Ignition Coil Bolt
85	951-12553	Alternator Assembly
86	710-04969	Bolt M6×30
87	710-04966	Bolt M6×8
88	951-11186	Wire Plate
89	951-12090	Flywheel

Ref.	Part Number	Description
90	951-11217	Cooling Fan
91	951-11218	Starter Cup
92	712-04220	Nut, Special, M16×1.5
93	710-04968	Bolt M6×16
94	710-04915	Bolt M6×12
96	951-11379	Blower Housing
97	951-11208	Recoil Starter
98	736-04455	Gasket 6
99	710-04974	Bolt M6×10

478-SUB Cylinder Head



142 - Gasket Kit - Complete

143 - Gasket Kit - External

144 - Complete Engine

478-SUB Cylinder Head

Ref.	Part Number	Description	Ref.	Part Number	Description
101	951-11198	Valve Kit	117	951-11965	Push Rod Guide
103	951-11962	Tappet	118	951-11981	Rocker Arm Assembly
104	951-11199	Push Rod Kit	119	710-04962	Bolt, Pivot
105	951-11226	Cylinder Head Kit (Incl.107,111,112,125)	120	951-11966	Rocker Arm
	951-11188	Cylinder Head Assembly (Incl.101,102,105,107, 109-122,124,129-132)	121	751-11123	Adjusting Nut ,Valve
106	715-04097	Dowel Pin 12×20	122	751-11124	Nut, Pivot Locking
107	951-12076	Gasket, Cylinder Head	123	710-05054	Valve Cover Bolt
108	951-10292	Spark Plug/F6Rtc	124	951-11967	Valve Cover Gasket
109	951-11212	Exhaust Pipe Gasket	125	951-11220	Valve Cover
110	710-04964	Stud M8×48.5	126a	731-07059	Breather Hose
110	951-11207	Muffler Stud Assembly	126b	726-04101	Breather Hose Clamp
111	710-04965	Bolt M10×1.25×80	127	951-11180	Air Shield
112	951-11964	Valve Seal (Intake)	128	710-04915	Bolt M6×12
113	951-12077	Valve Spring Retainer(Intake)	141	951-11333	Valve Cover Kit
114	951-12078	Valve Spring	142	951-11209	Gasket Kit - Complete (Incl. 52,59,65,79,81,107, 109,124,130-132)
115	951-12080	Valve Spring Retainer	143	951-11210	Gasket Kit - External (Incl. 79,109,124,130-132)
116	951-12081	Exhaust Lash Cap	144	952Z478-SUB	Complete Engine