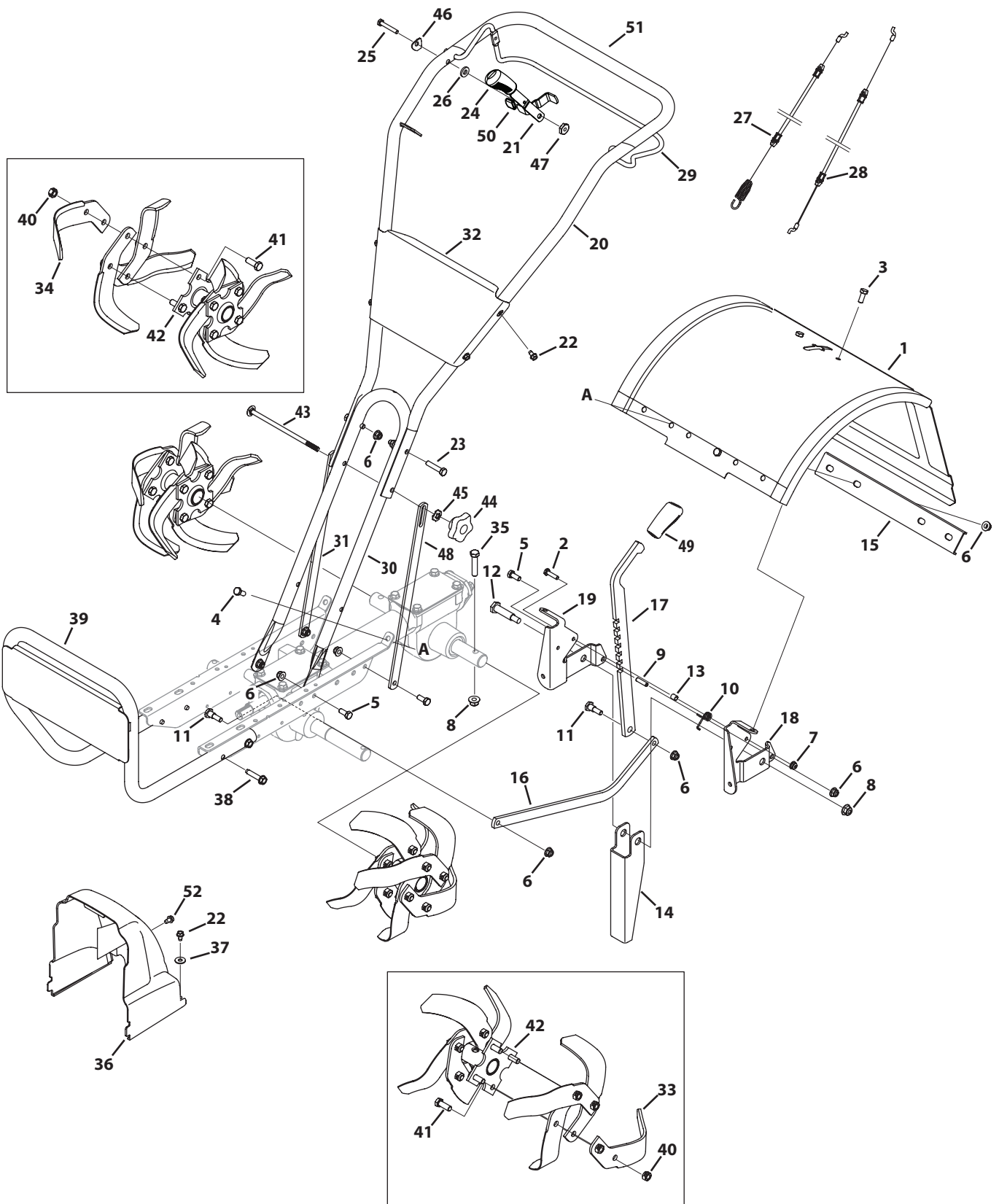


Model Series 640 & 650

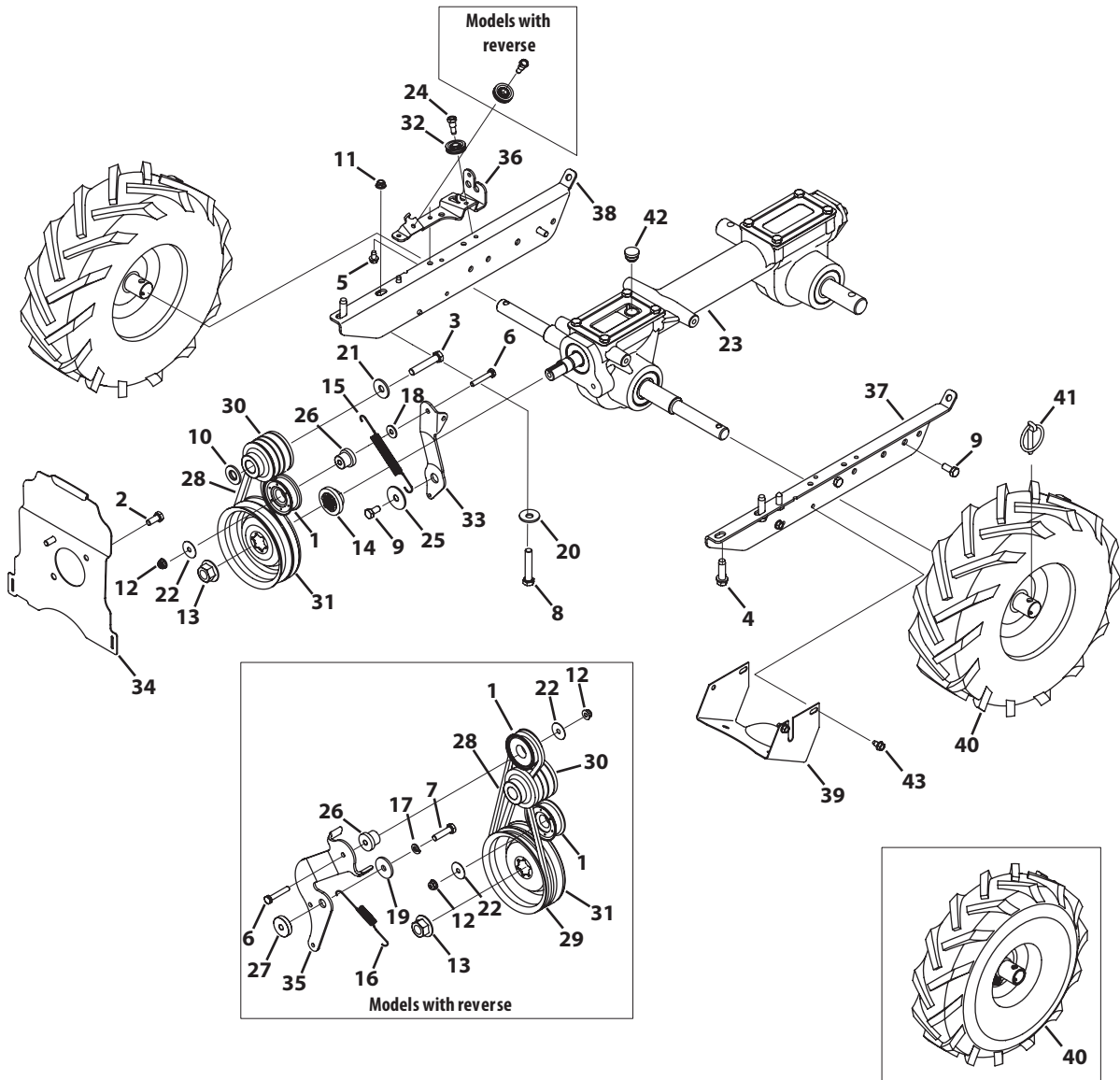


Model Series 640 & 650

Ref.	Part Number	Description	Ref.	Part Number	Description
1*	686-04077A	Tine Shield Assembly	27	946-04413	Forward Cable
1	686-04076A	Tine Shield Assembly	28*	946-04414	Reverse Cable
2	710-0597	Hex Head Screw, 1/4-20 x 1.00	29	747-04789	Clutch Bail
3	710-0604A	Screw, 5/16-18 x 0.625	30	749-04742	Lower Handle
4	710-1238	Hex Head Washer, 5/16-18 x .875	31	786-04433	Support Handle Bracket
5	710-3008	Hex Head Screw, 5/16-18 x .75	32	786-04200	Handle Panel
6	712-04063	Flangelock Nut, 5/16-18	33	742-04226	LH Bolo Tine
7	712-04064	Flangelock Nut, 1/4-20	34	742-04227	RH Bolo Tine
8	712-04065	Flangelock Nut, 3/8-16	35	710-0347	Hex Head Screw, 3/8-16 x 1.75
9	715-0108	Spring Pin, 1/4 DIA x 1.00 LG	36	731-06170	Belt Cover
10	732-04320	Torsion Spring	37	736-0173	Washer, Flat, .28 x .74 x .063
11	738-04320	Screw, Shoulder, 5/16-18 x .405 x .435	38*	710-04605	Screw, 5/16-18 x 1.50
12	938-0533	Screw, Shoulder, \$r .498 x 1.635	39*	686-04134	Bumper
13	750-05349	Spacer, Split, .350 x .268 x .375	40	912-3000	Nut, Hexlock, 3/8-16
14	786-04092	Stop Reverse Arm	41	710-0514	Hex Head Screw, 3/8-16 x 1.00
15	786-04098	Support Channel Bracket	42*	686-04065	Tine Holder Assembly
16	786-04104	Depth Drag Bar	42	686-04066	Tine Holder Assembly
17	786-04292A	Depth Adjuster Bar	43	710-05211	Carriage Bolt, 5/16-18 x 6.75
18	786-04363	LH Tail Bracket	44	720-04072A	Knob, 5/16-18
19	786-04364	RH Tail Bracket	45	936-0170	Washer, .326 x .875 x .145
20	649-04097	Upper Handle Assembly	46*	936-0451	Washer, Saddle, .320 x .93 x .060
21*	686-04135	Reverse Handle Assembly	47*	738-0440	Spacer, .375 x .165
22	710-0599	Screw, 1/4-20 x 0.500	48	786-04434	Support Handle Bracket
23	710-0805	Hex Head Screw, 5/16-18 x 1.50	49	720-04163	Handle Grip
24*	731-04735	Reverse Handle Grip	50	720-04173	Reverse Handle Grip
25*	710-3288	Hex Head Screw, 1/4-20 x 1.62	51	720-05023	Handle Grip
26*	936-0176	Flat Washer, .265 x .938 x .120	52	710-0896	Self Tapping Screw, 1/4-14 x .625

* 650 Series

Model Series 640 & 650



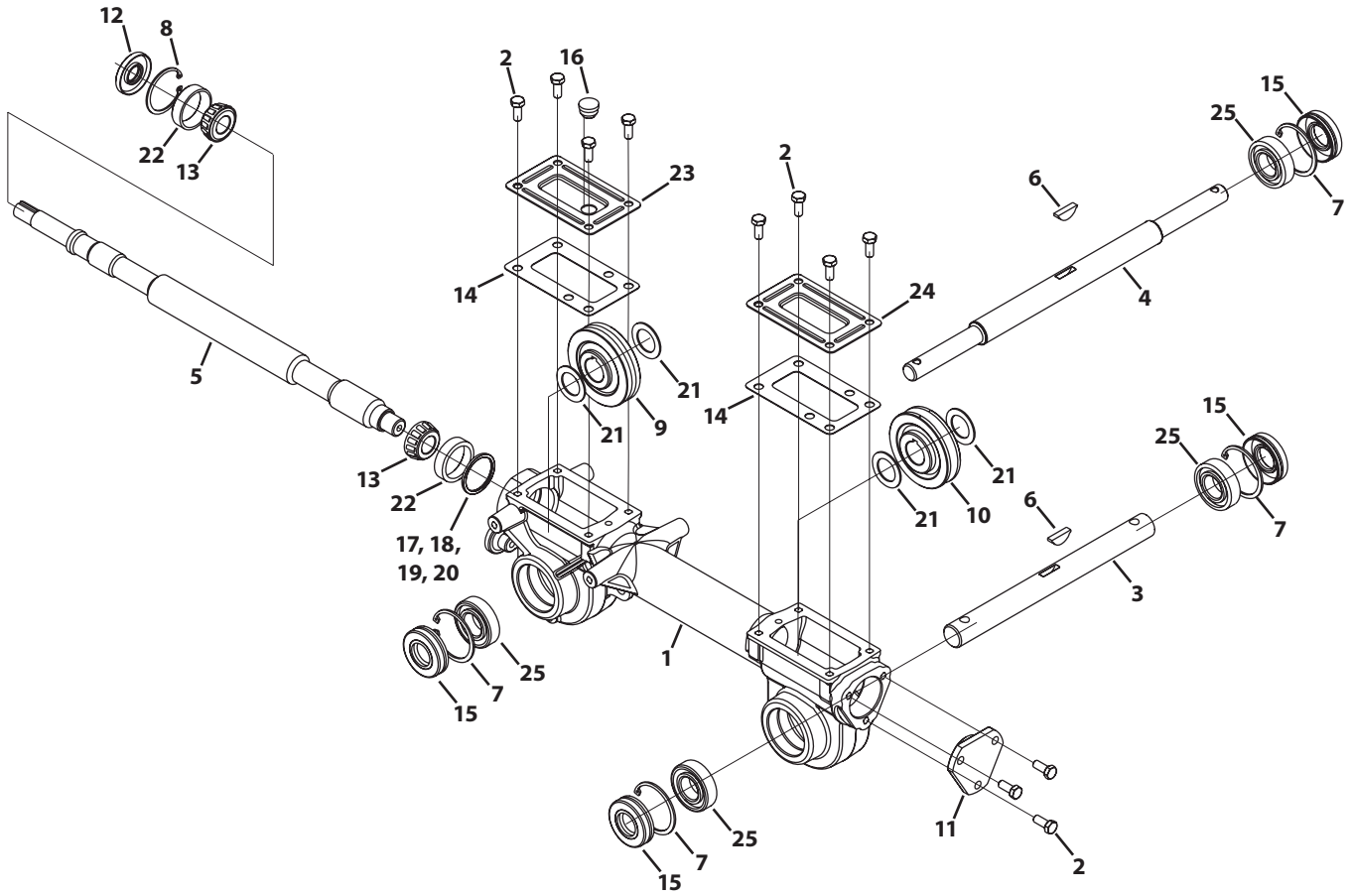
Model Series 640 & 650

Ref.	Part Number	Description
1	684-04168	Idler Pulley Assembly, 1.917 OD
2	710-0170	Hex Head Screw, 5/16-24 x .625
3	710-0151	Hex Head Screw, 3/8-24 x 2.00
4	710-0502A	Screw, 3/8-16 x 1.250
5	710-0599	Screw, 1/4-20 x 0.500
6	710-0606	Hex Head Screw, 1/4-20 x 1.50
7	710-0672	Hex Head Screw, 5/16-24 x 1.25
8	710-0805	Hex Head Screw, 5/16-18 x 1.50, B&S
9	710-1880	Hex Head Screw, 5/16-18 x .75, Patch
10	736-0315	Washer, Flat, .760 x 1.50 x .120
11	712-04063	Flangelock Nut, 5/16-18, B&S
12	712-04064	Flangelock Nut, 1/4-20
13	712-0700	Flange Nut, 9/16-18
14	718-04407	Pulley Hub, 5/8 SPLINE
15	732-04085	Extension Spring, .480 OD x 5.00 LG
16	732-04276A	Extension Spring, LT5 PTO
17	936-0119	Washer, Lock, 5/16
18	736-0173	Washer, Flat, .28 x .74 x .063
19	736-0343	Washer, Flat, .330 x 1.25 x .120
20	736-04193	Washer, .396 x 1.140 x .095, B&S
21	936-0452	Washer, Bell, .396 x 1.140 x .095
22	736-3092	Washer, Flat, .265 x 1.0 x .030

Ref.	Part Number	Description
23	753-06042A	Transmission Assembly
24	738-04425	Screw, Shoulder, 1/4-28 x .342 x .335
25	748-04087A	Forward Idler Pivot Spacer
26	750-04571	Spacer, Shoulder, .260 x .785 x .538
27	750-04907	Reverse Idler Pivot Spacer
28	954-04090	V Belt, 4L x 25.375 LG
29	954-04091	V Belt, 3L x 29.125 LG
30	756-04198A	Engine Pulley, 3L & 4L, Honda
31	756-04355	Transmission Pulley
32	756-0625	Cable Roller
33	786-04312	Forward Idler Bracket
34	786-04343	Cover Mounting Plate
35	786-04346	Reverse Idler Bracket
36	786-04357	Pulley Mounting Bracket
37	786-04419B	LH Mount Frame
38	786-04418B	RH Mount Frame
39	786-04371	Pulley Shield
40	934-04232	Wheel, 13 x 5 x 6
*	934-04453	Wheel Assembly, 11 x 4-4
41	714-0143A	Klik Pin, .25 DIA x 1.56
42	721-04271	Oil Plug
43	710-0896	Self Tapping Screw, 1/4-14 x .625

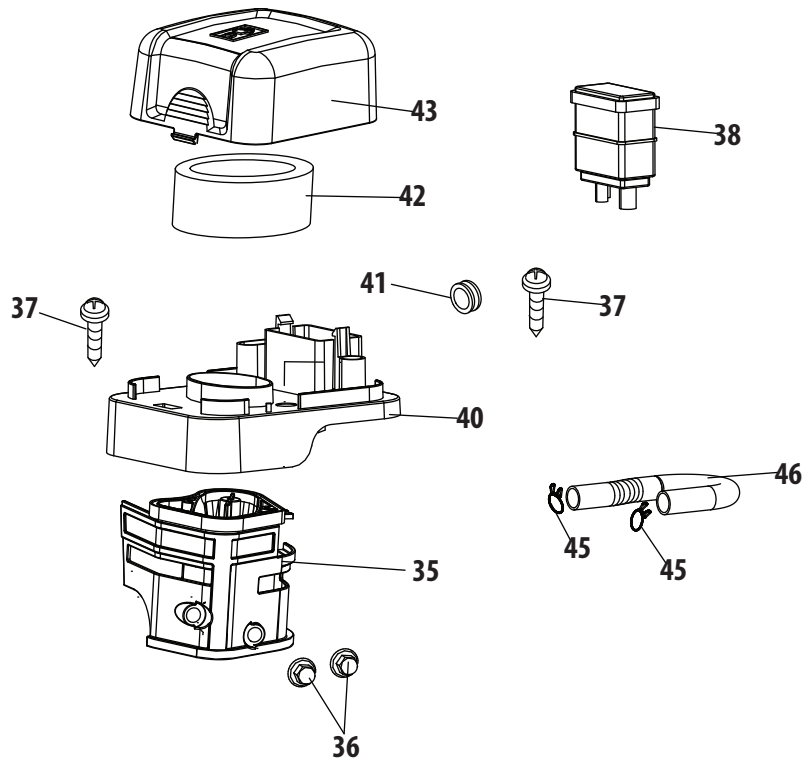
* 640 Series

Model Series 640 & 650

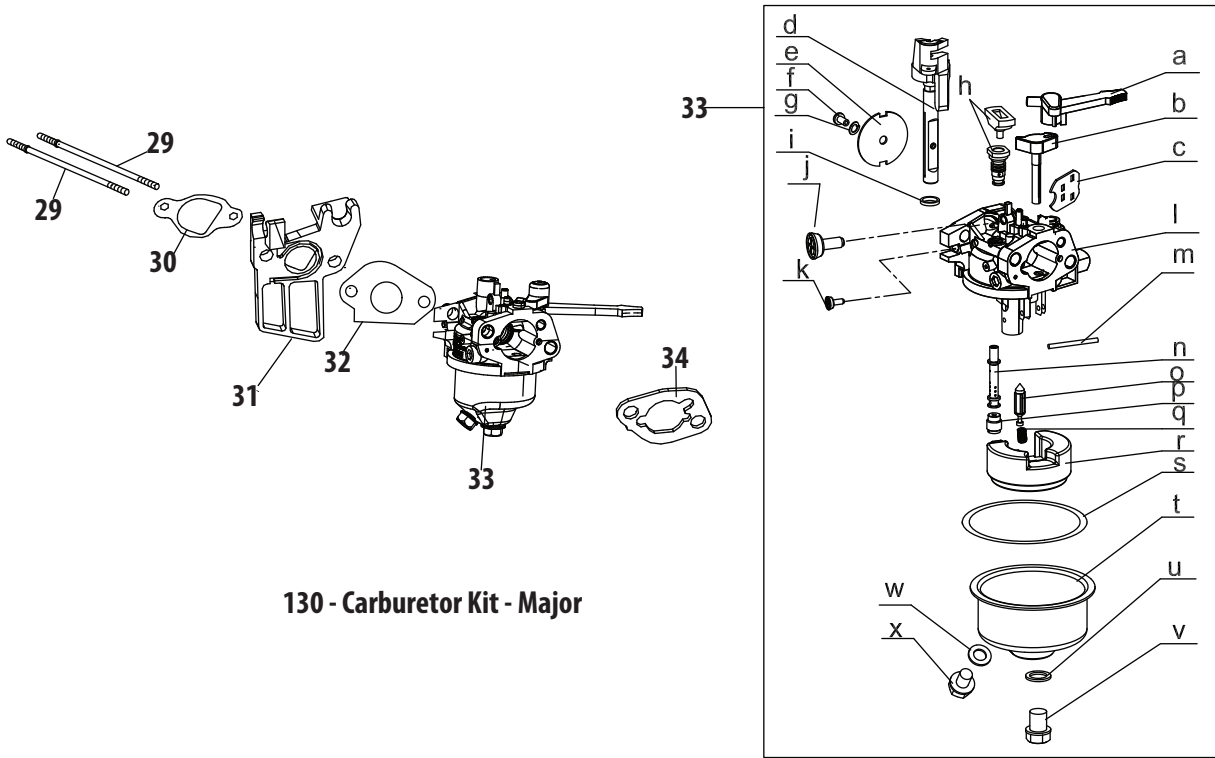


Ref.	Part Number	Description
1	919-04202B	Transmission Housing
2	710-3008	Hex Head Screw, 5/16-18 x .75
3	911-04844	Tiller Shaft
4	911-04854	Wheel Shaft
5	711-05035	CRT Drive Shaft
6	714-04059	Key, .25 x 1.062
7	716-0204	Retainer Ring
8	716-04102	Retainer Ring
9	917-04380	RH Gear Worm, 61T
10	917-04381	LH Gear Worm, 30T
11	918-04435	Bearing Cover
12	921-04030	Oil Seal, .750 SHF x 1.783 BORE
13	941-04298	Cone Bearing
14	921-04229	Gear Housing Gasket
15	721-04232	Oil Seal, 1.00 SHF x 2.00 BORE
16	721-04271	Rubber Oil Plug
17	736-04305	Washer, Flat, 1.50 x 1.75 x .062
18	736-04306	Washer, Flat, 1.50 x 1.75 x .005
19	736-04307	Washer, Flat, 1.50 x 1.75 x .03
20	736-04308	Washer, Flat, 1.50 x 1.75 x .010
21	736-0745	Washer, Flat, 1.010 x 1.56 x .060
22	941-04299	Cup Bearing
23	786-04366	Tiller Transmission Cover
24	786-04392	Tiller Transmission Cover
25	741-3114	Ball Bearing, 1 x 52 x 15 x 6205-1

170-AU Air Cleaner



Ref.	Part Number	Description
35	951-14315	Air Cleaner Housing
36	712-04213	Nut
37	951-14068	Self-Tapping Bolt4.2x16
38	951-14069	Carbon Canister
40	951-14070	Silencer Plate
41	750-05314	Bushing
42	951-14262	Air Filter
43	951-12136	Air Cleaner Cover
45	951-14073	Piping Hose
46	951-14074	Exhaust Piping

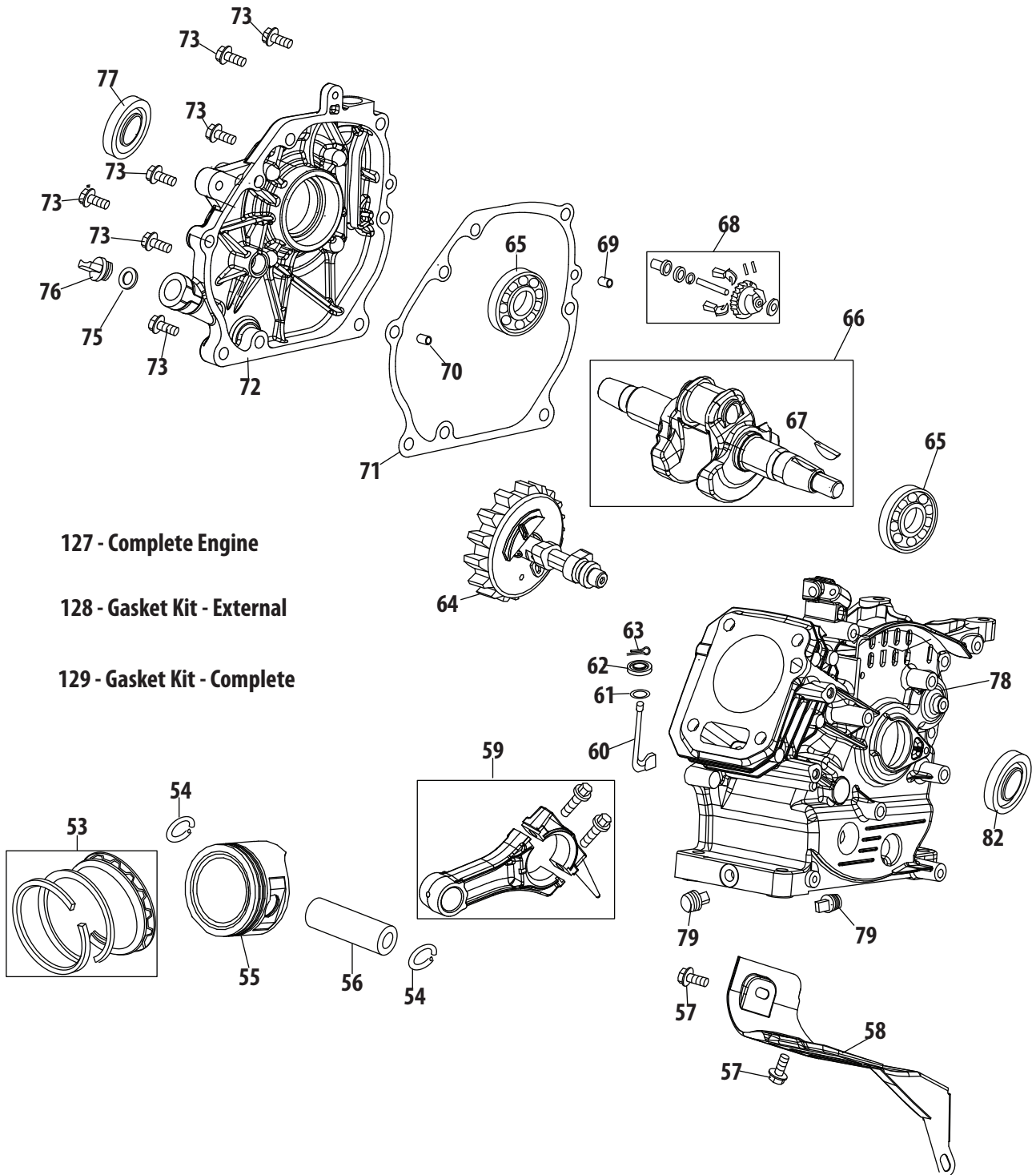


130 - Carburetor Kit - Major

Ref.	Part Number	Description
29	710-05101	Carburetor Stud Bolt M6×110
30	951-11567	Carburetor Insulator Gasket
31	951-11568	Carburetor Insulator
32	951-11569A	Carburetor Gasket
33	951-05021	Carburetor Assembly
34	951-11571	Carburetor Gasket Plate
130	951-05034	Carburetor Repair Kit

Ref.	Part Number	Description
a	951-11177	Control Lever,Choke
b	n/a	Choke Shaft
c	n/a	Choke Plate
d	n/a	Throttle Shaft
e	n/a	Throttle Plate
f	n/a	Fuel Shutoff Lever Screw M3×6
g	736-04638	Lock Washer
h	n/a	Idle Jet Assembly
i	n/a	Gasket, Throttle Plate
j	n/a	Idle Speed Adjusting Screw
k	n/a	Mixture Screw
l	n/a	Carburetor Body
m	n/a	Float Pin
n	n/a	Emulsion Tube
o	951-12875	Float Needle Valve
p	n/a	Main Jet
q	n/a	Needle Valve Spring
r	n/a	Float
s	951-11589	Fuel Bowl Gasket
t	n/a	Fuel Bowl
u	951-11348	Fuel Bowl Gasket
v	710-04945	Fuel Bowl Mounting Bolt
w	951-11349	Fuel Drain Plug Gasket
x	710-04938	Fuel Drain Plug

170-AU Crankcase



127 - Complete Engine

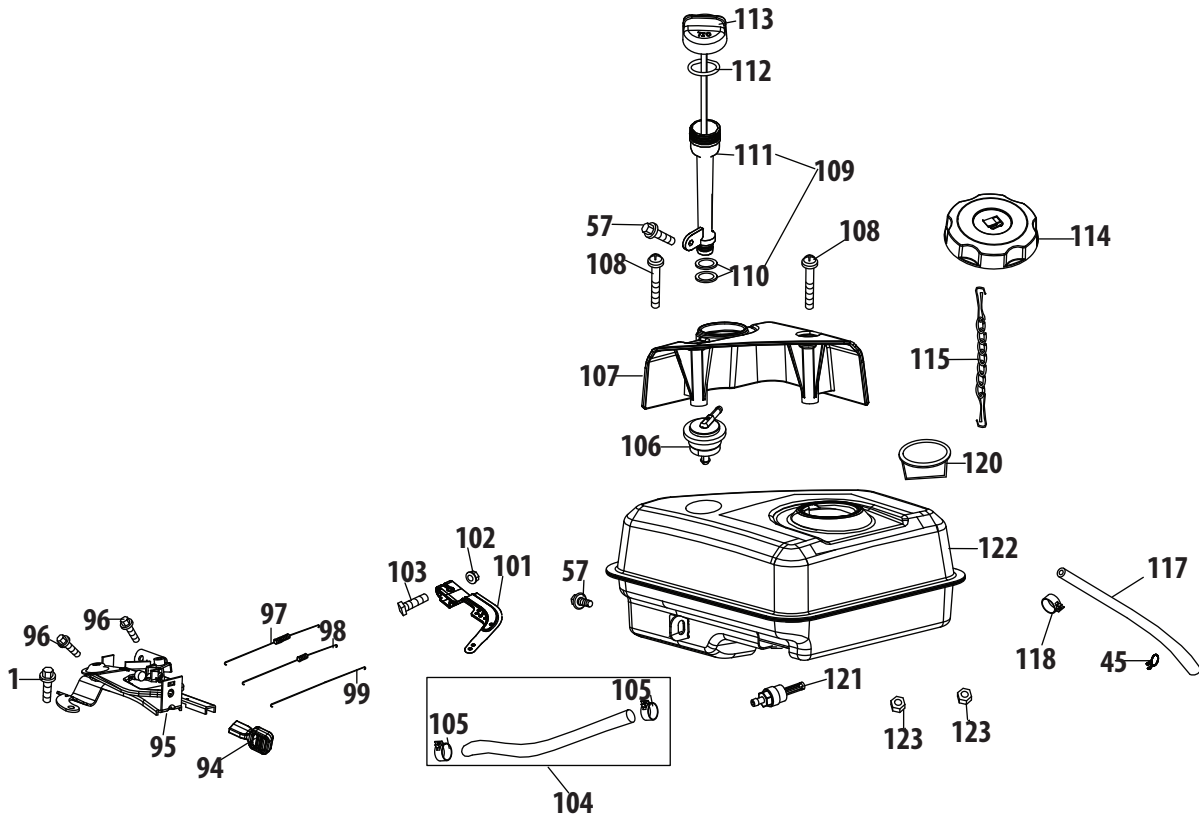
128 - Gasket Kit - External

129 - Gasket Kit - Complete

170-AU Crankcase

Ref.	Part Number	Description	Ref.	Part Number	Description
53	951-14317	Piston Ring Set	72	951-12125	Crankcase Cover
54	951-11632	Piston Pin Snap Ring		751-14142	Crankcase Cover Service Kit (Incl. 65,71-73,75-77)
55	951-14318	Piston	73	710-04932	Bolt M8x32
56	951-11633	Piston Pin	75	951-11577	O-Ring 15.8 X 2.5
57	710-04915	Bolt M6x12	76	951-12394	Oil Plug
58	951-11113	Air Shield	77	951-11578	Oil Seal, 25x41.25x6
59	951-11573	Connecting Rod Assembly	78	751-14144	Crankcase Service Kit (Incl. 62,65,77-79,82)
60	951-14053	Governor Shaft		951-05031	Shortblock Assembly (Incl. 6,22,30-32,47,49,50, 53-56,59-79,82)
61	736-04461	Washer - 5.2 X 1.9	79	951-12514	Oil Drain Plug
62	951-11902	Governor Seal	82	951-12126	Oil Seal
63	714-04078	Cotter Pin	127	952Z170-AU	Complete Engine
64	951-11575	Camshaft Assembly	128	951-12026A	Gasket Kit - External (Incl. 6,22,30-32,34)
65	951-11369	Radial Ball Bearing, 6205	129	951-05032	Gasket Kit - Complete (Incl. 6,22,30-32,34,47,61,62,71,77,82)
66	751-14143	Crankshaft Service Kit (Incl. 65-67,77,82)			
67	951-10307	Woodruff Key			
68	951-11576	Governor Gear/Shaft Assembly			
69	715-04092	Dowel Pin 7x14			
70	715-04096	Dowel Pin 9x14			
71	951-11371	Crankcase Cover Gasket			

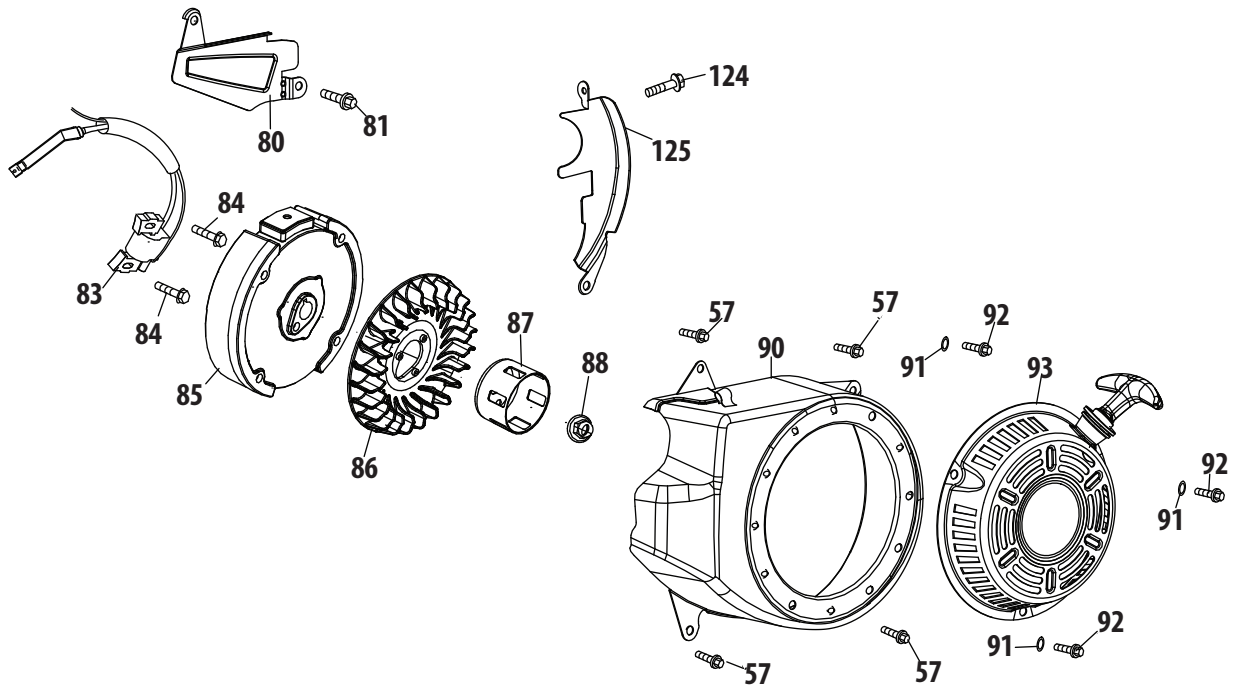
170-AU Fuel Tank & Mounting



Ref.	Part Number	Description
1	710-04968	Bolt M6x16
57	710-04915	Bolt M6x12
94	951-11067	Throttle Control Knob
95	951-12131	Primer Bracket
96	710-05103	Bolt M6x12
97	951-11585	Governor Spring
98	951-10664	Throttle Linkage Spring
99	951-10665	Governor Rod
101	951-11106	Governor Arm Bracket
102	712-04212	Nut M6
103	710-04908	Governor Arm Bolt
104	751-10650	Fuel Line Kit
105	951-11700	Fuel Hose Clamp
106	951-14075	Valve, Roller Over

Ref.	Part Number	Description
107	951-11914	Engine Dipstick Cover
108	710-04905	Bolt
109	951-11913	Oil Fill Tube Assembly
110	951-11904	Dipstick O-Ring
111	951-10656	Dipstick Tube
112	951-11381	O-Ring
113	951-12482	Dipstick Assembly
114	951-12535	Fuel Cap
115	951-14076	Fuel Cap Chain
116	951-14133	Primer Hose Assembly
120	951-11933	Fuel Level Indicator
121	951-10651	Fuel Tank Nipple
122	951-14332	Fuel Tank
123	712-05015	Nut M6

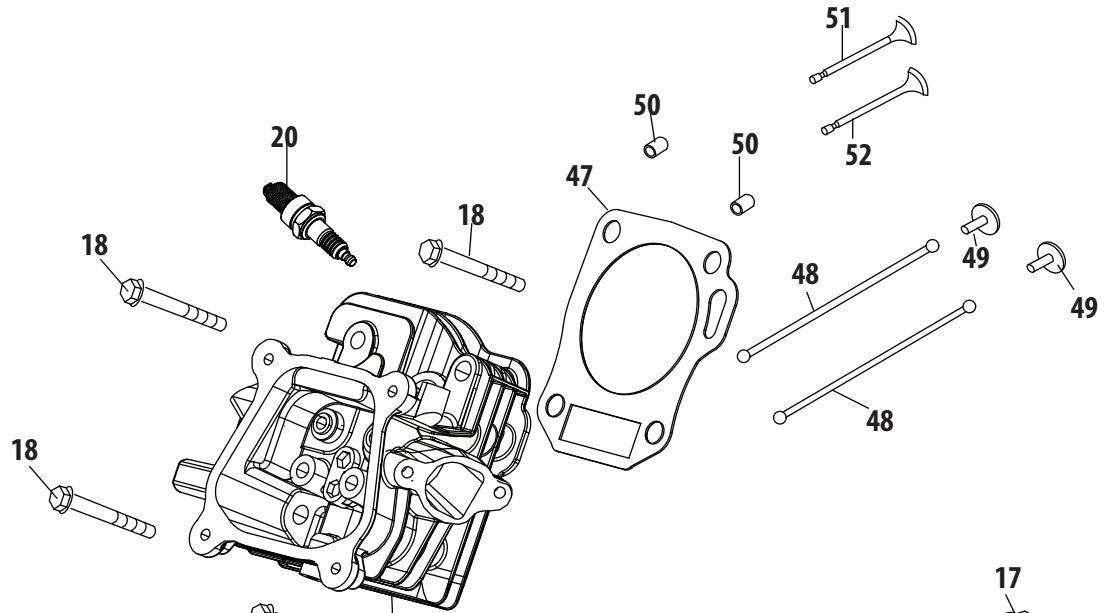
170-AU Flywheel & Blower Housing



Ref.	Part Number	Description
57	710-04915	Bolt M6×12
80	951-11110	Air Flow Shield
81	710-04940	Bolt M6×10
83	951-10792	Ignition Coil
84	710-04919	Flange Bolt M6X25
85	951-14320	Flywheel
86	951-10934	Cooling Fan
87	951-10911	Starter Cup

Ref.	Part Number	Description
88	712-04209	Flywheel Nut, M14 X 1.5
90	951-11583	Blower Housing
91	736-04455	Flat Washer
92	710-04974	Bolt M6×10
93	951-12418	Recoil Starter Assembly
124	710-04918	Bolt:Flange M6X20
125	951-14138	Blower Housing Shield

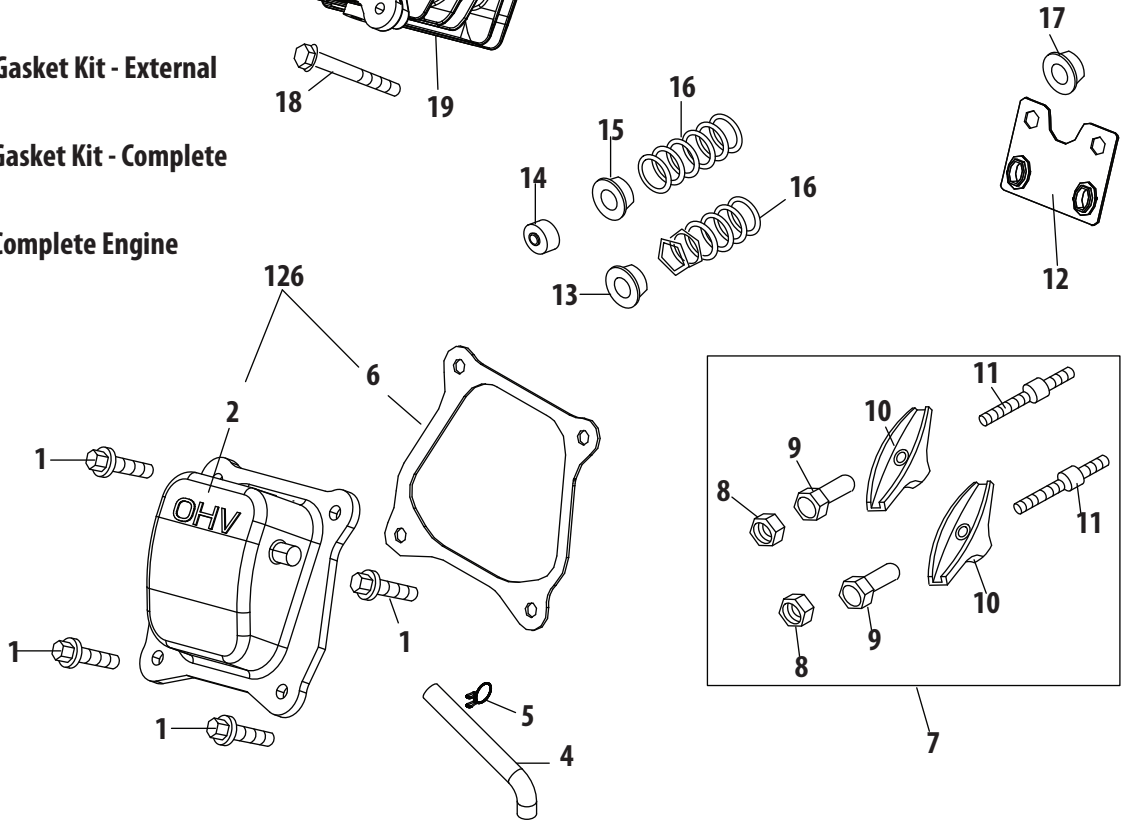
170-AU Cylinder Head



128 - Gasket Kit - External

129 - Gasket Kit - Complete

127 - Complete Engine

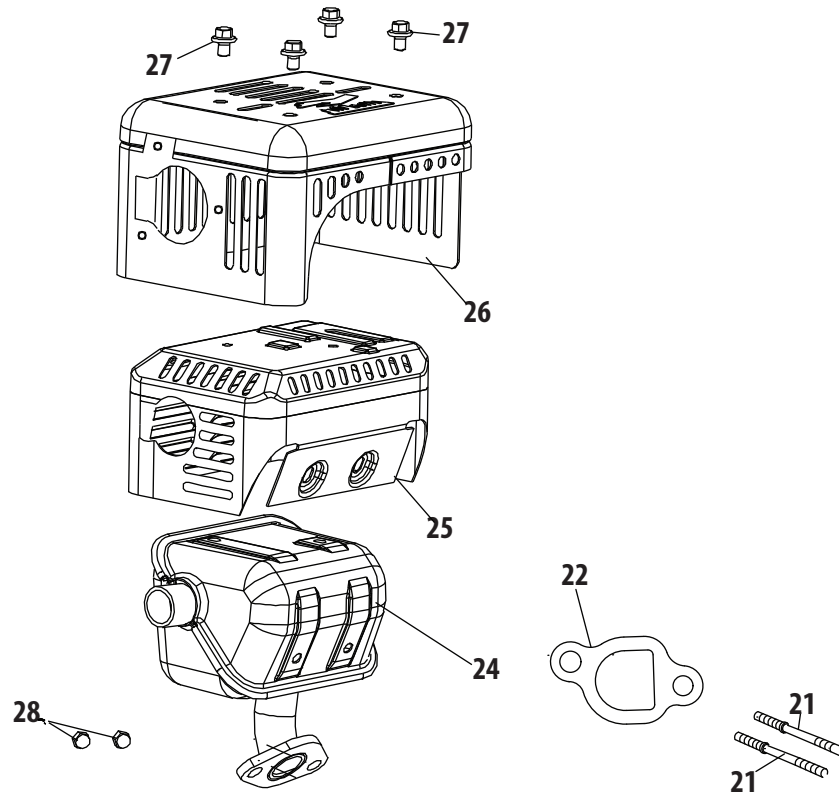


170-AU Cylinder Head

Ref.	Part Number	Description
1	710-04968	Bolt M6×16
2	951-11054B	Valve Cover
4	731-07059	Breather Hose
5	726-04101	Breather Hose Clamp
6	951-11565	Valve Cover Gasket
7	951-11892	Rocker Arm Assembly
8	751-11124	Nut, Pivot Locking
9	751-11123	Adjusting Nut ,Valve
10	951-11893	Rocker Arm
11	710-04902	Bolt, Pivot
12	951-11895	Push Rod Guide
13	951-12000	Valve Spring Retainer (Intake)
14	951-12002	Exhaust Valve Adjuster
15	951-12003	Valve Spring Retainer (Exhaust)
16	951-12004	Valve Spring
17	951-11894	Valve Seal (Intake)

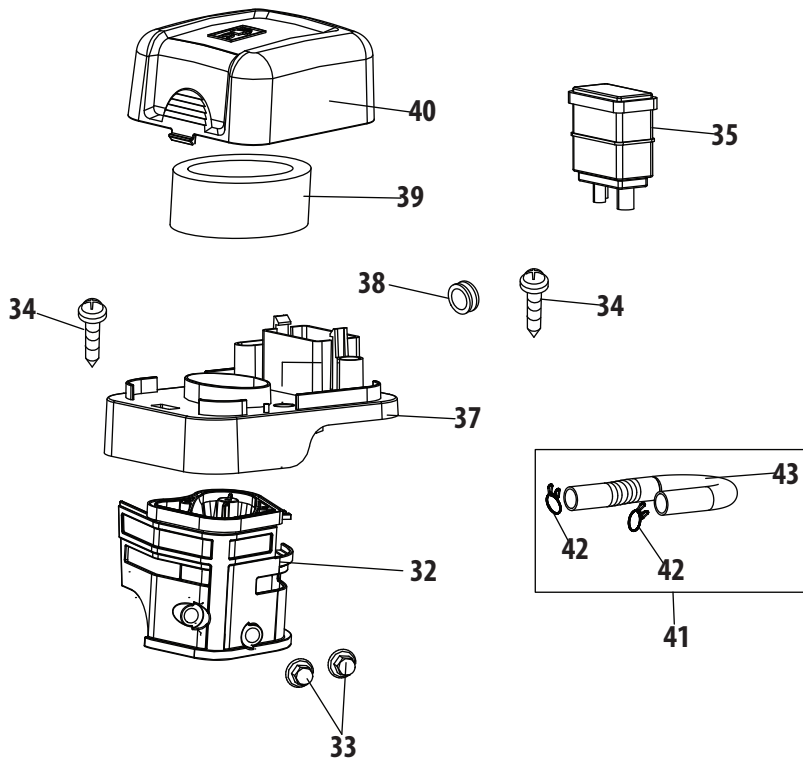
Ref.	Part Number	Description
18	710-06080	Bolt M8×55
19	951-05029	Cylinder Head Assembly (Incl. 6,8-17,19,22,30-32,47,51,52)
20	951-10292	Spark Plug/F6Rtc
47	951-14316	Gasket, Cylinder Head
48	751-10648	Push Rod Kit
49	951-11899	Tappet
50	715-04108	Dowel Pin 10X16
51	751-10647A	Valve Kit
52	751-10647A	Valve Kit
126	951-05033	Valve Cover Kit
127	952Z170-AU	Complete Engine
128	951-12026A	Gasket Kit - External (Incl. 6,22,30-32,34)
129	951-05032	Gasket Kit - Complete (Incl. 6,22,30-32,34,47,61,62,71,77,82)

170-AU Muffler

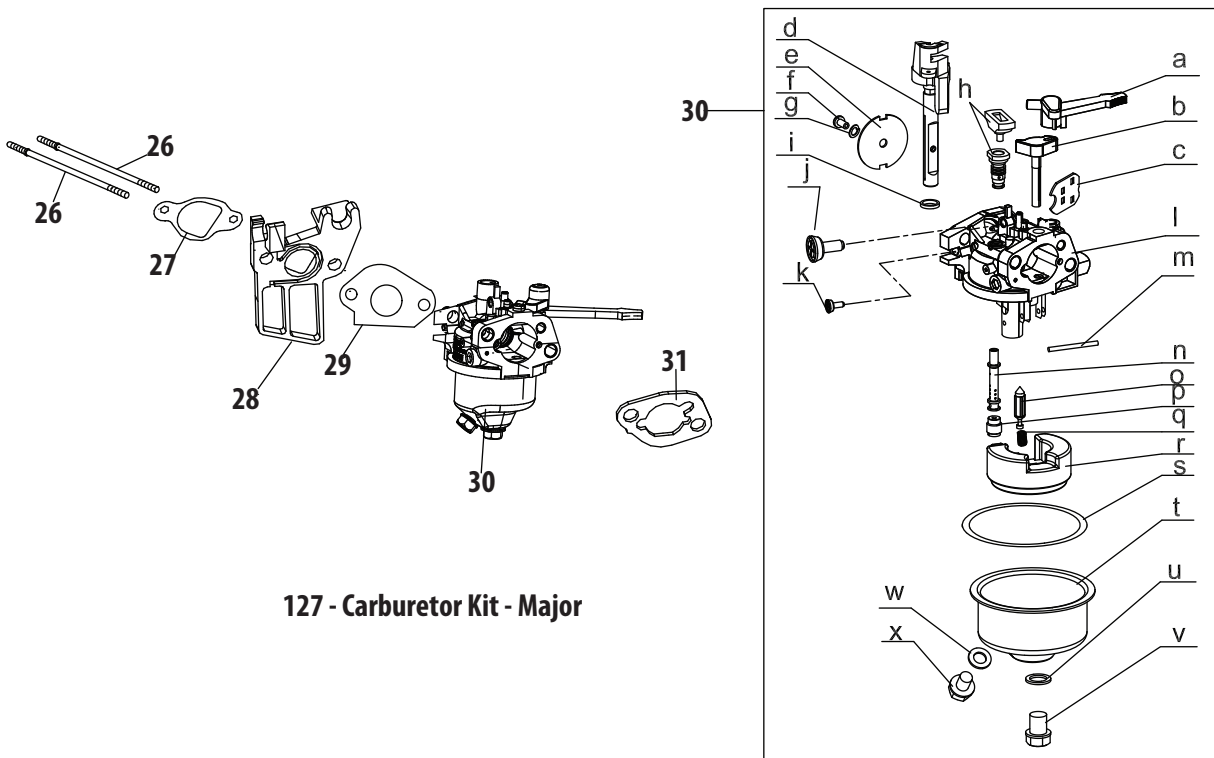


Ref.	Part Number	Description
21	710-04911	Muffler Stud M8×34
21	751-10657	Muffle Stud Kit
22	951-11289	Exhaust Pipe Gasket
24	951-14267	Muffler Body
25	751-14311	Muffler Shield
26	951-14310	Muffler Guard
27	710-06073	Bolt M5×8
28	712-04214	Nut, M8

170-TU Air Cleaner



Ref.	Part Number	Description
32	951-10806	Air Cleaner Housing
33	712-04213	Nut
34	951-14068	Self-Tapping Bolt M4.2×16
35	951-14069	Carbon Canister
37	951-14070	Silencer Plate
38	750-05314	Rubber Shock Pad
39	951-10794	Air Filter Assembly
40	951-14071	Air Filter Cover
41	951-14072	Primer Hose
42	951-14073	Clamp
43	951-14074	Exhaust Piping

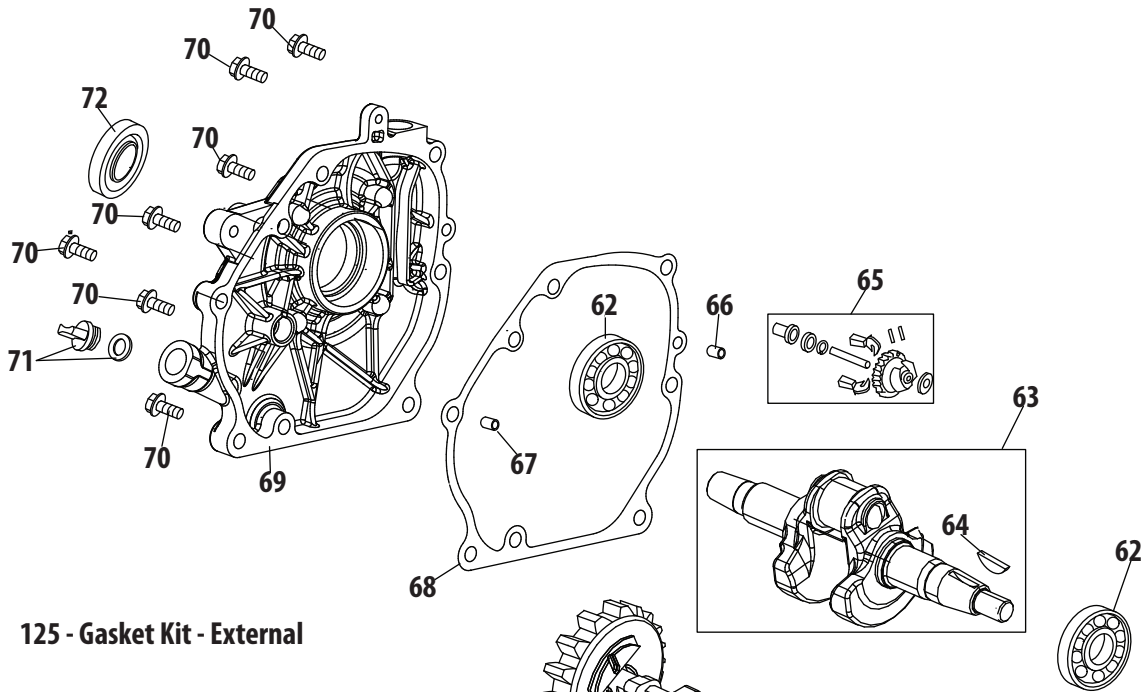


127 - Carburetor Kit - Major

Ref.	Part Number	Description
26	710-05101	Stud M6×110
27	951-11567	Carburetor Insulator Gasket
28	951-11568	Carburetor Insulator
29	951-11569A	Carburetor Gasket
30	951-12124	Carburetor Assembly
31	951-11571	Carburetor Gasket Plate
127	951-12119A	Carburetor Kit - Major

Ref.	Part Number	Description
a	951-11177	Control Lever,Choke
b	n/a	Choke Shaft
c	n/a	Choke Plate
d	n/a	Throttle Shaft
e	n/a	Throttle Plate
f	n/a	Screw M3×5
g	736-04638	Lock Washer
h	n/a	Idle Jet Assembly
i	n/a	Gasket, Throttle Plate
j	n/a	Idle Speed Adjusting Screw
k	n/a	Mixture Screw
l	n/a	Carburetor Body
m	n/a	Float Pin
n	n/a	Emulsion Tube
o	n/a	Needle Valve
p	n/a	Main Jet
q	n/a	Needle Valve Spring
r	n/a	Float
s	951-11589	Fuel Bowl Gasket
t	n/a	Fuel Bowl
u	951-11348	Fuel Bowl Gasket
v	710-04945	Fuel Bowl Mounting Bolt
w	951-11349	Fuel Drain Plug Gasket
x	710-04938	Fuel Drain Plug

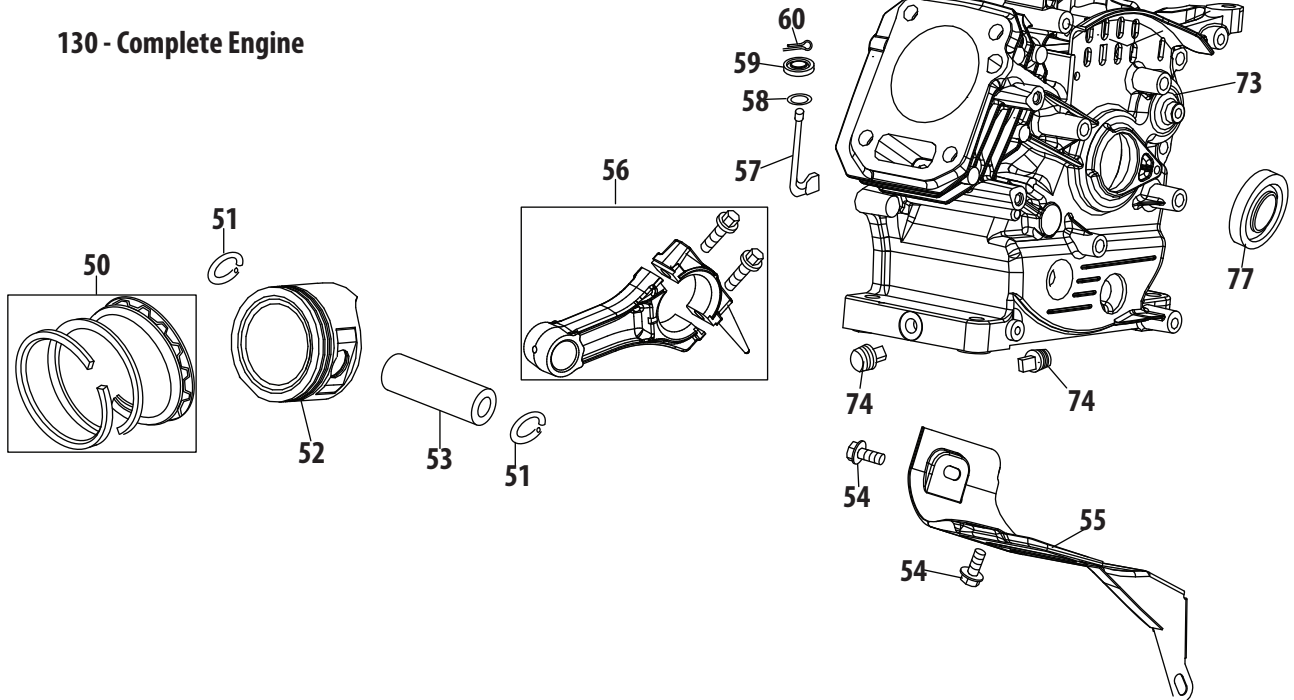
170-TU Crankshaft & Crankcase



125 - Gasket Kit - External

126 - Gasket Kit - Complete

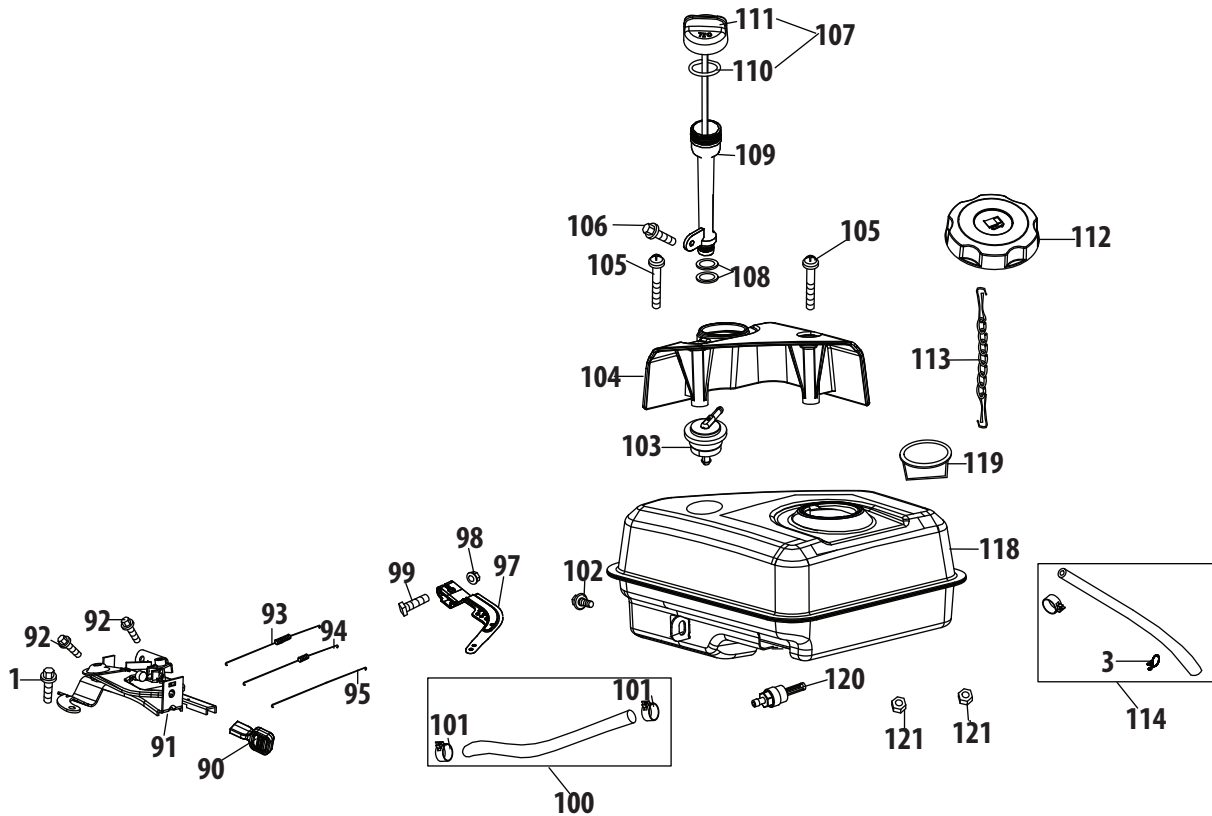
130 - Complete Engine



170-TU Crankshaft & Crankcase

Ref.	Part Number	Description	Ref.	Part Number	Description
50	951-12111	Piston Ring Set	67	715-04089	Dowel Pin 9x14
51	951-11632	Piston Pin Snap Ring	68	951-11371	Crankcase Cover Gasket
52	951-12007	Piston	69	951-12125	Cover Comp, Left Crankcase
53	951-11633	Piston Pin	70	710-04932	Bolt M8x32
54	710-04915	Bolt M6x12	71	951-11283	Oil Plug
55	951-11113	Air Shield	72	951-11578	Oil Seal, 25x41.25x6
56	951-11573	Connecting Rod Assembly	73	951-12551	Short Block
57	951-11356	Governor Arm Shaft			(Incl.6,22,27,28,44,46,47, 50-53,56-70,72-75)
58	736-04461	Washer 5.2x1.9	74	951-12514	Oil Drain Plug
59	951-11574	Governor Seal	77	951-12126	Oil Seal 25x41.25x6
60	714-04074	Cotter Pin	125	951-12573	Gasket Kit - External
61	951-11575	Camshaft Assy.			(Incl.6,22,27-29,31)
62	951-11369	Radial Ball Bearing, 6205	126	951-12572	Gasket Kit - Complete
63	951-12160	Crankshaft Assembly			(Incl.6,22,27-29,31,44, 58,59,68,72,75)
64	951-10307	Woodruff Key	130	952Z170-TU	Complete Engine
65	951-11576	Governor Gear/Shaft Assembly			
66	715-04092	Dowel Pin 7x14			

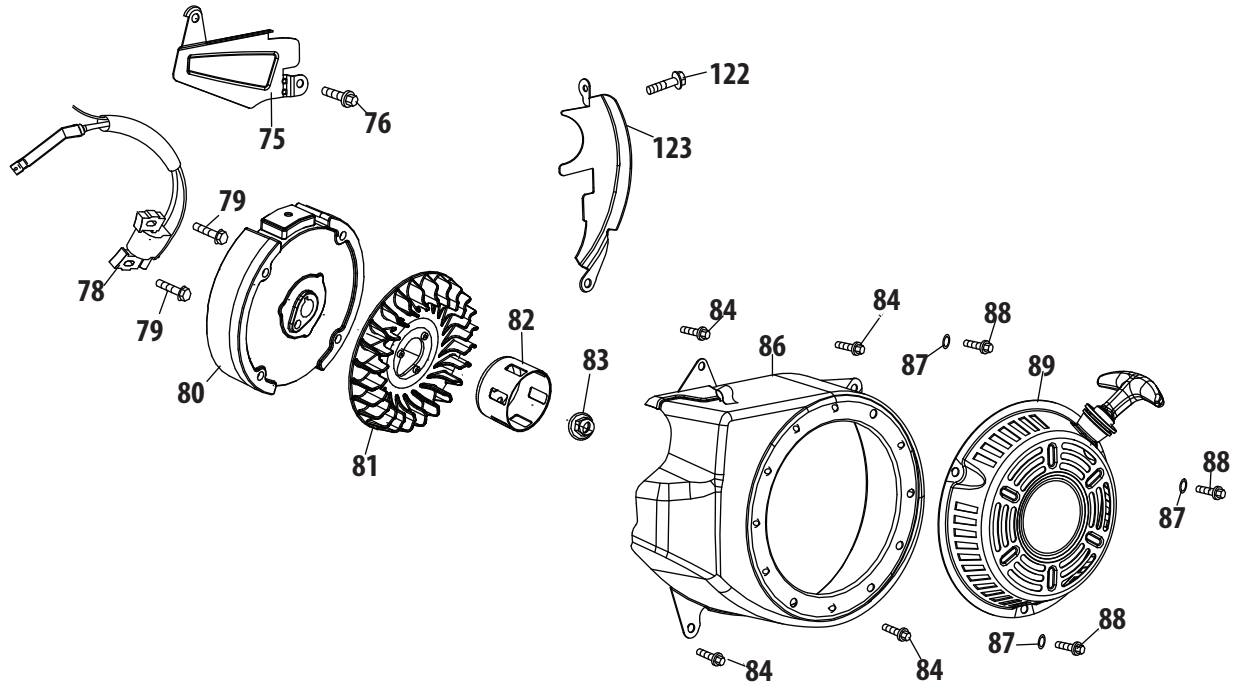
170-TU Fuel Tank & Mounting



Ref.	Part Number	Description
1	710-04968	Bolt M6x16
3	726-04101	Breather Hose Clamp
90	951-11067	Throttle Control Knob
91	951-12131	Primer Bracket
92	710-05103	Bolt M6x12
93	951-11585	Governor Spring
94	951-10664	Throttle Linkage Spring
95	951-10665	Throttle Linkage
97	951-11106	Governor Arm
98	712-04212	Nut M6
99	710-04908	Governor Arm Bolt
100	951-10650	Fuel Line Kit
101	951-11700	Fuel Hose Clamp
102	710-04915	Bolt M6x12
103	951-14075	Rollover Valve

Ref.	Part Number	Description
104	951-11914	Dipstick Decoration Cover
105	710-04905	Bolt
106	710-04915	Bolt M6x12
107	951-12482	Dipstick Assembly
108	951-11381	O-Ring
109	951-11913	Oil Fill Tube Assembly
110	951-11904	O-Ring
111	951-11912	Dipstick Guage
112	951-12535	Cap Comp,Fuel
113	951-14076	Tether
114	751-14139	Primer Hose
118	951-14077	Fuel Tank Assembly
119	951-11933	Fuel Level Indicator
120	951-10651	Fuel Tank Nipple
121	712-04212	Nut, M6

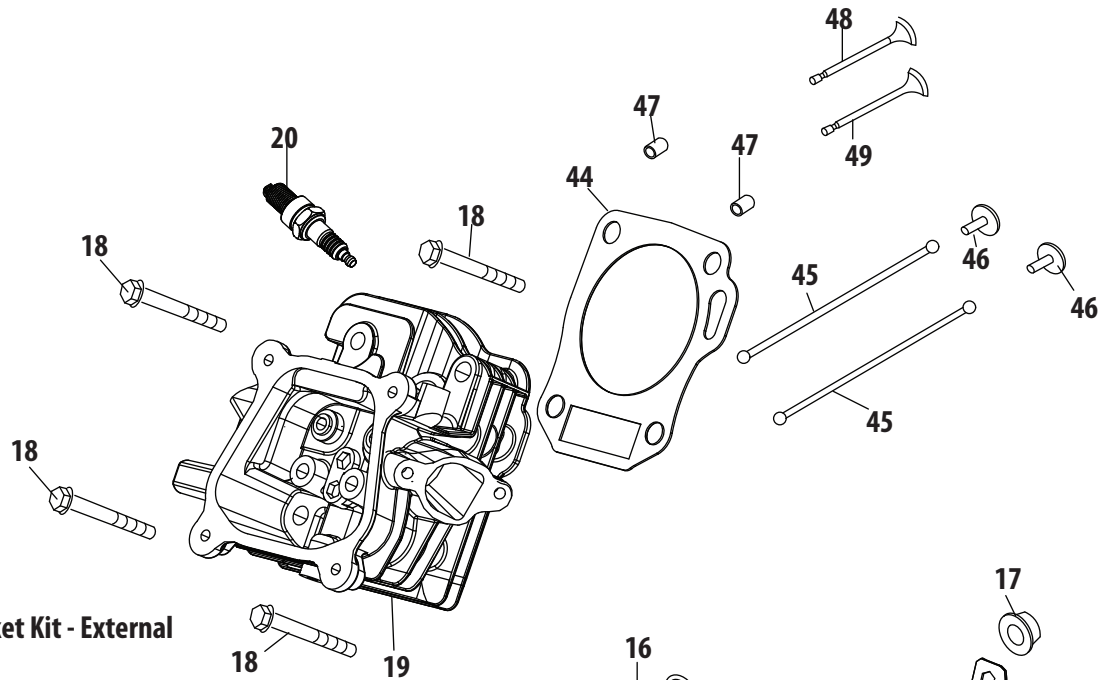
170-TU Flywheel & Blower Housing



Ref.	Part Number	Description
75	951-11110	Air Flow Shield
76	710-04940	Bolt M6×10
78	951-10792	Ignition Coil Assembly
79	710-04919	Bolt M6×25
80	951-10805	Flywheel
81	951-10934	Fan, Cooling
82	951-10911	Pulley, Starter
83	712-04209	Nut, Special, M14×1.5

Ref.	Part Number	Description
84	710-04915	Bolt M6×12
86	951-11583	Blower Housing
87	736-04455	Washer
88	710-04974	Bolt M6×10
89	951-12418	Recoil Starter
122	710-04918	Bolt M6×20
123	951-11109	Blower Housing Shield

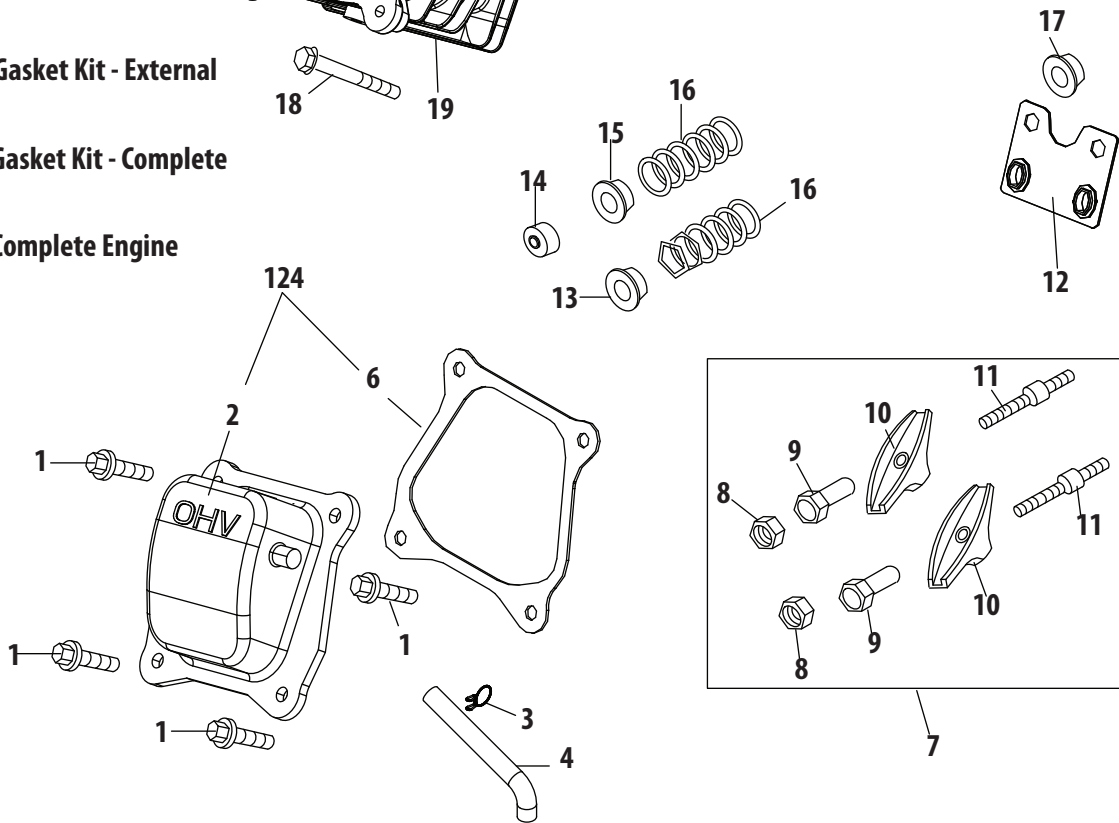
170-TU Cylinder Head



125 - Gasket Kit - External

126 - Gasket Kit - Complete

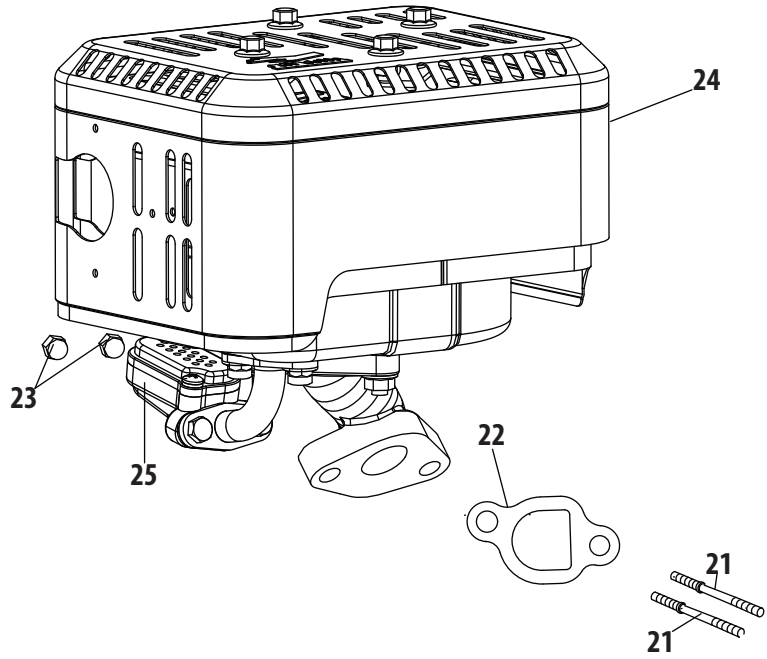
130 - Complete Engine



170-TU Cylinder Head

Ref.	Part Number	Description	Ref.	Part Number	Description
1	710-04968	Bolt M6×16			Incl.4,15,16,38)
2	951-11054	Valve Cover		951-10722A	Cylinder Head Assembly
3	726-04101	Breather Hose Clamp			(Incl.6,8-17,19,22,28,
4	731-07059	Exhaust Piping			29,44,48,49)
6	951-11565	Valve Cover Gasket	20	951-10292	Spark Plug/F6Rtc
7	951-11892	Rocker Arm Assembly	44	951-11572	Gasket, Cylinder Head
8	751-11124	Nut, Pivot Locking	45	951-10648	Push Rod Kit
9	751-11123	Adjusting Nut ,Valve	46	951-11899	Tappet
10	951-11893	Rocker Arm	47	715-04108	Dowel Pin 10×16
11	710-04902	Bolt, Pivot	48	951-10647A	Valve Kit
12	951-11895	Push Rod Guide	49	951-10647A	Valve Kit
13	951-12000	Retainer, In.Valve Spring	124	951-11063A	Valve Cover Kit
14	951-12002	Adjuster, Exh Valve	125	951-12573	Gasket Kit - External
15	951-12003	Retainer, Ex.Valve Spring			(Incl.6,22,27-29,31)
16	951-12004	Valve Spring	126	951-12572	Gasket Kit - Complete
17	951-11894	Intake Valve Seal			(Incl.6,22,27-29,31,44,
18	710-04933	Bolt M8×55			58,59,68,72,75)
19	951-10819	Cylinder Head Service Kit	130	952Z170-TU	Complete Engine

170-TU Muffler



Ref.	Part Number	Description
21	951-14063	Stud M8×38
22	951-11289	Exhaust Pipe Gasket
23	712-04214	Nut, M8
24	951-14067	Muffler Assembly
25	951-12865	Secondary Air Valve