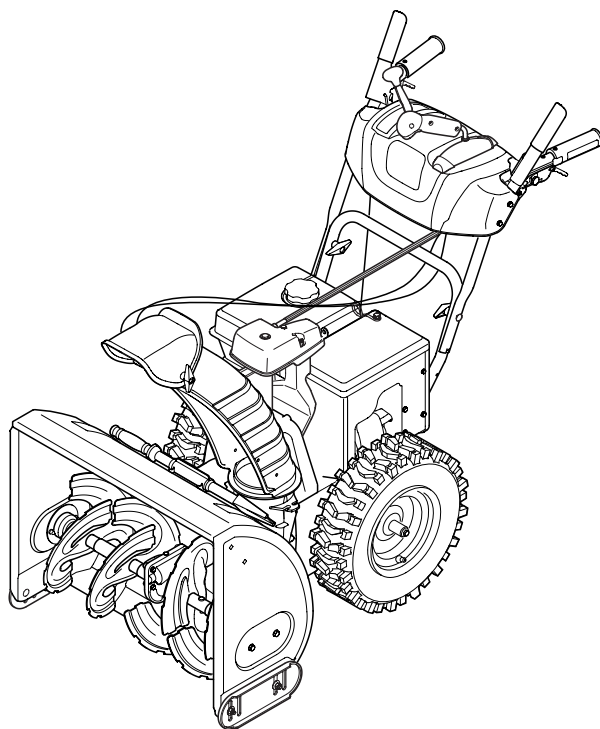

ILLUSTRATED PARTS MANUAL



500 Series Snow Thrower

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

To The Owner

Thank You

Thank you for purchasing an MTD Snow Thrower. It was carefully engineered to provide excellent performance when properly operated and maintained.

All information in this manual is relative to the most recent product information available at the time of printing. Please be aware that this Illustrated Part's Manual may cover a range of product specifications for various models.

Components listed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

Throughout this manual, all references to *right* (RH) and *left* (LH) are observed from the operating position.

Table of Contents

Handle & Frame.....	4	Engine Model 478-SUB.....	18
Drive System	6	Engine Model 370-SUC	26
Auger & Auger Housing	10	Engine Model 483-SUB	34
Chute Control.....	12		

Record Product Information

To ease in ordering replacement parts, please locate the model plate on the equipment and record the information in the provided area to the right. You can locate the model plate by standing at the operator's position and looking down at the rear of the deck.

MODEL NUMBER

--	--	--	--	--	--	--	--	--	--	--

SERIAL NUMBER

--	--	--	--	--	--	--	--	--	--	--

Painted Parts

When ordering painted service parts, a four digit color suffix must be added to the part number (e.g. 783-XXXX-0637). Please refer to the table below for current color codes:

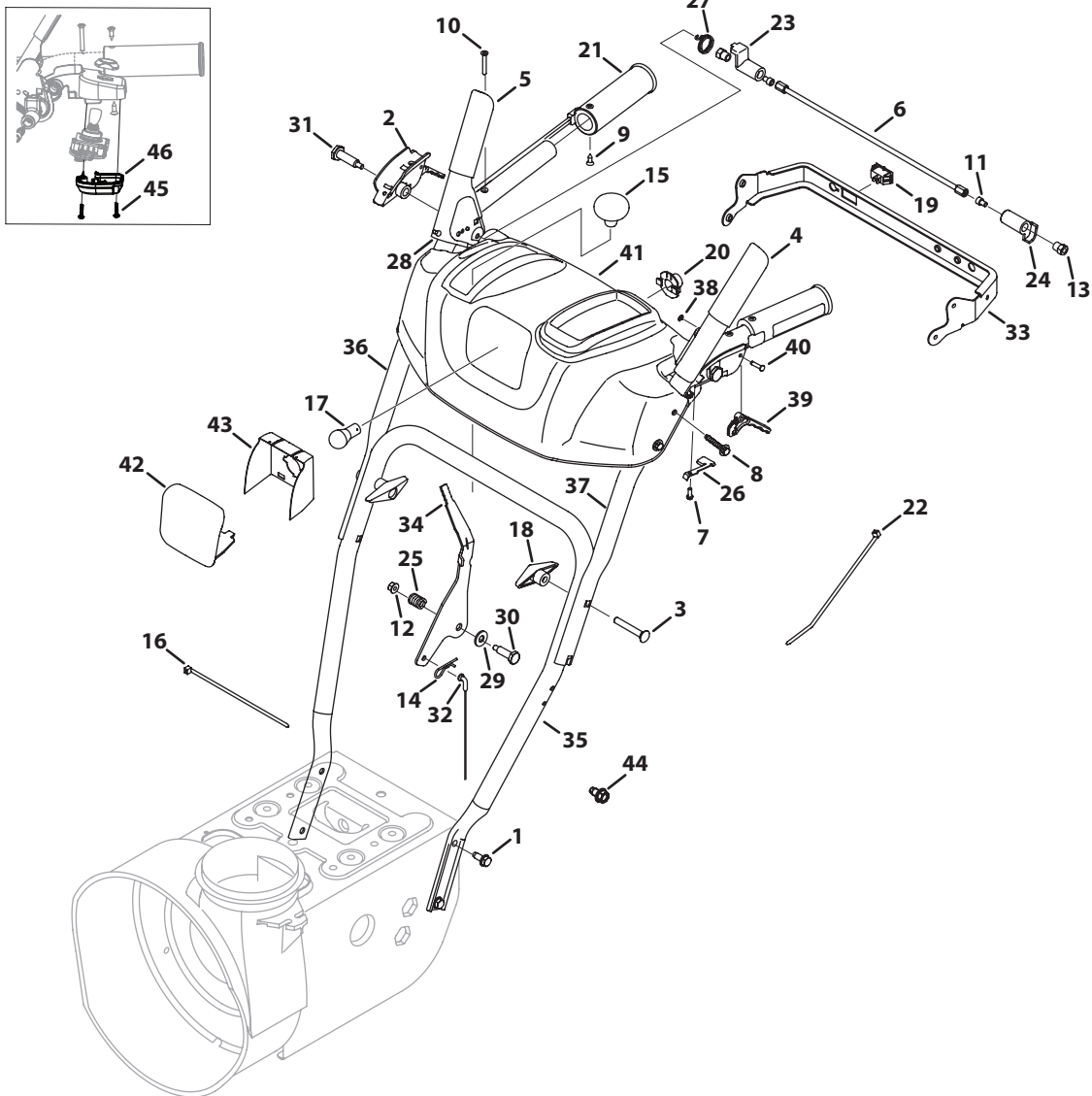
0637	Black
0709	Dark Green (Bolens, Yard-Man)
0662	Oyster Gray (MTD Gold)
0638	Red (Yard Machines, Huskee, Troy-Bilt, MTD)
0691	Black Jack (MTD Gold, MasterCut)

0674	Yellow (Yard-Man)
0650	Metallic Red (White Outdoor)
0629	Silver Flake (MTD Platinum)
04038	Day Orange (Daedong)
04033	Flint Mica (Troy-Bilt XP)

This page left intentionally blank.

Handle & Frame

Models w/ Elec. Chut

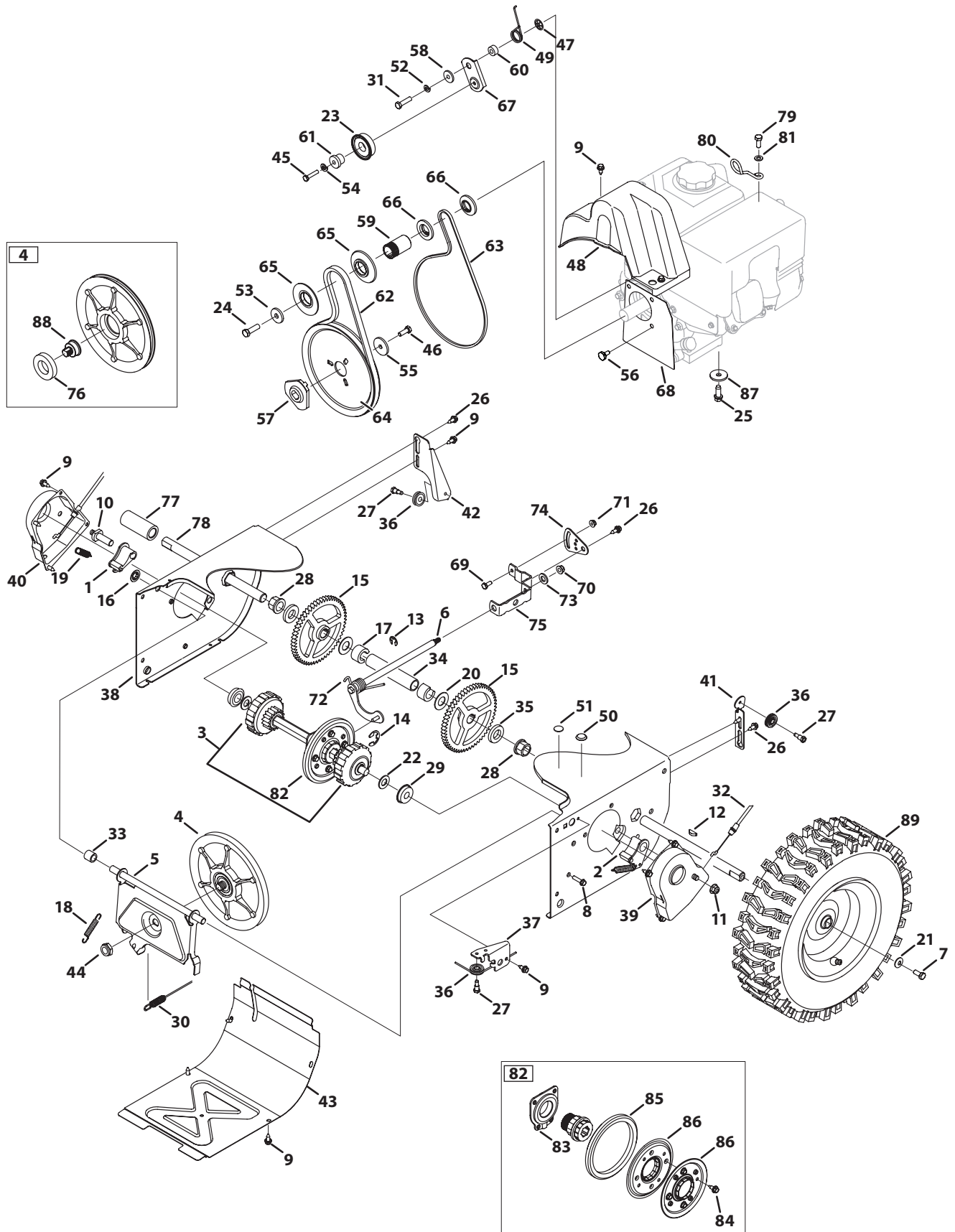


Ref.	Part Number	Description
1	710-04484	Screw, Taptite, 5/16-18 x .750
2	631-04134B	Clutch Lock, RH
—	931-04653	Clutch Lock, RH (Elec. Chute)
—	631-04133A	Clutch Lock, LH
3	710-0572	Screw, Carriage, 5/16-18 x 2.50
4	684-04105B	Auger Engage, Black, LH
—	684-04111B	Auger Engage, Red, LH
5	684-04106C	Drive Engage, Black, RH
—	684-04112B	Drive Engage, Red, RH
6	684-04250	Pivot Rod
7	710-04326	Screw, Plastite, 8-16 x .50
8	710-04586	Screw, Taptite, 1/4-20 x 1.625
9	710-0837†	Screw, 10-16 x 0.625
10	710-1233	Screw, 10-24 x 1.375
11	710-3069	Screw, 1/4-20 x .50
12	712-04064	Nut, Flangelock, 1/4-20
13	712-04081A	Nut, Hex, 1/4-20
14	914-0145	Click Pin, .092 x 1.64
15	720-04039	Shift Knob
16	725-0157	Cable Tie, 7"
17	925-1629	Lamp
18	920-0284	Wing Knob, 5/16-18
19	725-04393†	Heated Grip Switch
20	925-1649†	Lamp Socket
21	725-05149	Heated Grip
—	720-0274	Grip, 1.0 ID x 5.0 LG
22	926-0154	Cable Tie, Push Mount
23	731-04894D	Plate, Lock
24	731-04896B	Cam, Clutch Lock
25	732-0193	Compression Spring, .39 x .60 x .88
26	732-04219C	Clutch Lock Spring

Ref.	Part Number	Description
27	732-04238	Torsion Spring, 0.8156 x .3038
28	935-0199A	Rubber Bumper
29	936-0267	Washer, Flat, .385 x .87
30	738-04125	Screw, Shield, .374 x 1.05
31	738-04348	Screw, Shoulder, .437 x 1.345 x 1/4-20
32	946-04396A	Speed Selector Cable
33	790-00248C	Panel Bracket
34	790-00311A	Shift Lever
35	749-04138A	Lower Handle
36	749-04190A	Upper RH Handle
37	749-04191A	Upper LH Handle
38	716-04036	E-Ring
39	731-04913	Steering Trigger Control
—	731-06113	Steering Trigger Control, Red
40	738-04126	Steering Trigger Pin, 3/16
41	931-05348A	Handle Panel, Gray
—	631-04183	Handle Panel, Black
—	931-05332A	Handle Panel, Troy-Bilt
—	931-05001	Handle Panel, Troy-Bilt, Elec. Chute
42	731-05320	Lens Panel
—	731-05319	Lens Panel, Troy-Bilt
43	777X41803	Lens Label
—	777X41805	Lens Label, Troy-Bilt
44	710-0599	Screw, TT, 1/4-20 x .500 (For ground wire)
45	710-04329†	Screw, .159 OD x .610
46	731-08876†	Housing Cover (Elec Chute)
—	725-05148	Heated Grips Harness (Not Shown)
—	725-05464	Harness, Elec. Chute (Not Shown)
—	925-04137	Harness (Not Shown)

† If Equipped

Drive System



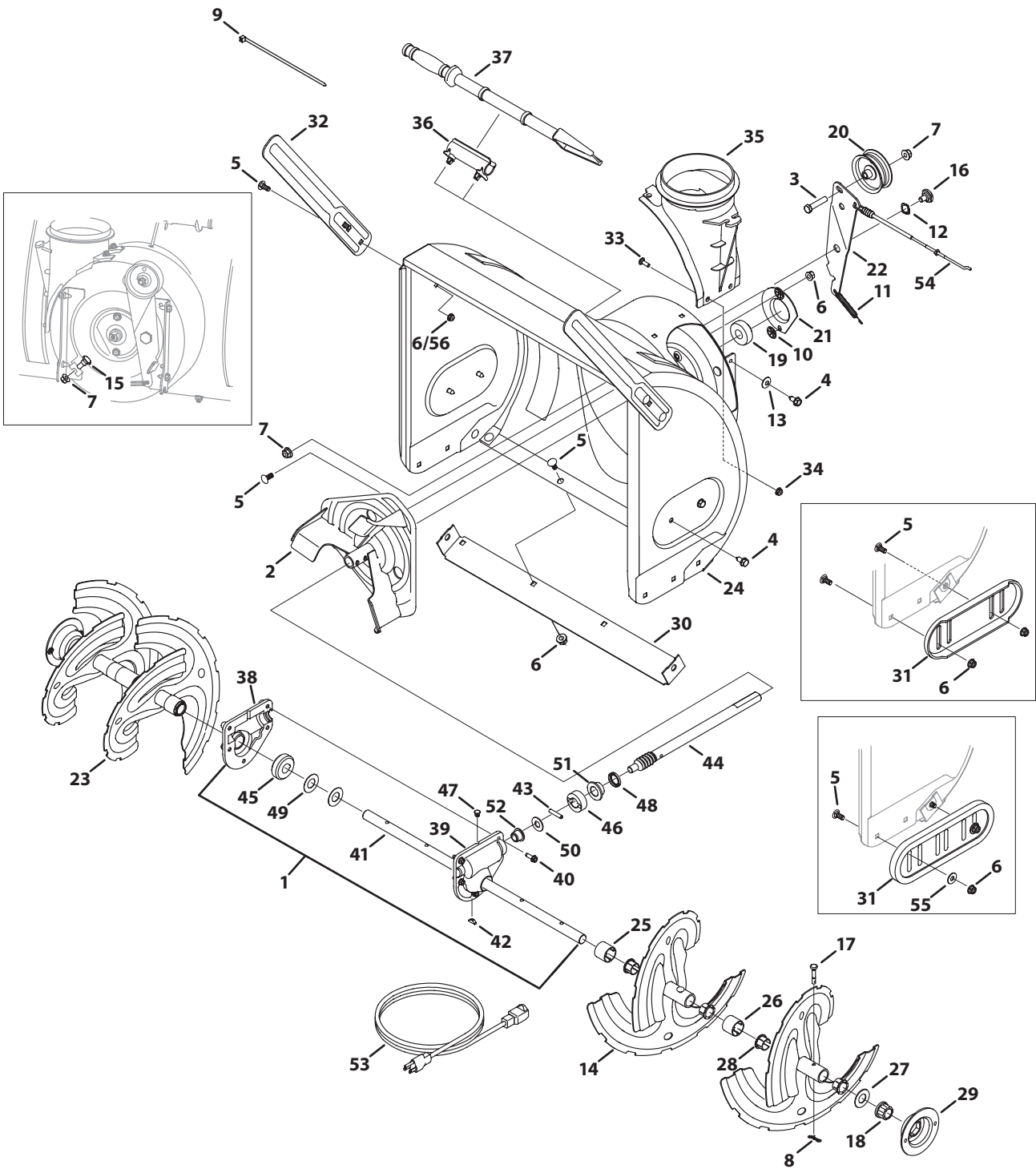
Ref.	Part Number	Description	Ref.	Part Number	Description
1	618-04287	Dogg Assembly, RH	42	790-00207C	Drive Clutch Cable Guide Bracket
2	618-04288	Dogg Assembly, LH	43	790-00316	Frame Cover
3	918-04322A	Drive Shaft Assembly	44	712-0417A	Nut, Flange, 5/8-18
4	656-04055	Friction Wheel Disc Assembly	45	710-0809	Taptite Screw, 1/4-20 x 1.250
5	684-04154B	Friction Wheel Support	46	710-1245B	Hex Head Screw, 5/16-24 x .875
6	684-04156A	Rod Shift Assembly	47	926-04012	Nut, Push-On, .25 DIA
7	710-0627	Hex Head Screw, 5/16-24 x .750	48	731-06401	Belt Cover
8	710-0788	Screw, 1/4-20 x 1.000	—	731-05353	Belt Cover (208cc)
9	710-1652	Screw, 1/4-20 x .625	49	732-04308A	Spring, Torsion, .850 x .333
10	711-1268B	Actuator Shaft	50	735-04099	Plug, 3/8 ID
11	712-04065	Nut, Flangelock, 3/8-16	51	735-04100	Plug, 1/2 ID
12	914-0126	Hi-Pro Key, 3/16 x 3/4 DIA	52	936-0119	Washer, Lock, 5/16
13	916-0104	E-Ring	53	736-0247	Washer, Flat, .406 x 1.25
14	716-0136	Retainer Ring	54	936-0329	Washer, Lock, 1/4
15	917-04210	Gear, 56T	55	736-0505	Washer, Flat, .34 x 1.50
16	726-0221	Nut, Speed, .500	56	738-04439	Screw, Shoulder
17	731-05297	Spacer, .76 x .75	57	748-04053A	Pulley Adapter, .75 DIA
18	932-0264	Extension Spring, .380 x 2.500	58	748-04112B	Spacer, Shoulder, .3175 x .500
19	732-04345	Extension Spring, .500 x 1.71	59	750-04303	Spacer, .875 x 1.185
20	736-0188	Washer, Flat, .76 x 1.49	60	750-04477A	Spacer, .340 x .750
21	736-0242	Washer, Bell, .340 x .872	61	750-04571	Spacer, Shoulder, .260 x .785
22	736-0626	Washer, Flat, .58 x 1.125	62	954-04195	Belt, .500 x 37.00
23	684-04169	Pulley Assembly	—	954-04050	Belt, .500 x 35.06
24	710-0191	Hex Head Screw, 3/8-24 x 1.25	63	954-04201A	V Belt, 3/8 x 35.68"
25	710-0654A	Taptite Sems Screw, 3/8-16 x 1.000	—	954-04260	V-Belt, 3L x 34.13
26	738-04184A	Screw, Shoulder, .368 x .113 x 1/4-20	64	756-04109	Auger Pulley, 8.1 x .5
27	738-0924A	C Screw, Shoulder, .340 x .335 x 1/4-28	65	756-04113	Pulley, Half, 4L-V x 2.600
28	941-0245	Hex Flange Bearing, .75 ID	66	756-04252	Pulley, Half, 3/8-V x 1.7160
29	741-04076	Ball Bearing, .5625 x 1.375 x .4375	67	790-00208C	Drive Idler Bracket
30	946-04229B	Drive Clutch Cable	68	790-00332	Cover Plate
31	710-0672	Hex Head Screw, 5/16-24 x 1.25	—	790-00289A	Cover Plate (208cc)
32	946-0956B	Steering Cable	69	710-0751	Hex Head Screw, 1/4-20 x .620
33	748-0190	Spacer, .508 x .75	70	712-04063	Nut, Flangelock, 5/16-18
34	750-04474	Axle Support Tube	71	712-04064	Nut, Flangelock, 1/4-20
35	750-0767	Spacer, Axle	72	732-04311A	Spring, Torsion, .750 x .968
36	756-0625	Roller Cable	73	936-3015	Washer, Flat, .469 x .875 x .105
37	790-00096	Auger Cable Guide Bracket	74	790-00217A	Speed Selector Pivot Bracket
38	790-00183B	Wheel Drive Frame	75	790-00218A	Speed Selector Shift Bracket
39	790-00185	Shaft Retainer, LH	76	741-04098	Ball Bearing, 30 x 55 x 13
40	790-00186	Shaft Retainer, RH	77	731-04873	Spacer, 1.25 x .75 x 3.00
41	790-00206A	Auger Clutch Cable Guide Bracket	78	938-04180	Axle, .75 x 11.12

cont. on next page

Ref.	Part Number	Description
79	710-04022	Hex Head Screw, 1.25 x 20
80	732-04677	Cable Guide
—	732-0705	Cable Guide (208cc)
81	936-0264	Washer, Flat, .330 x .630
82	684-04159	Friction Wheel Assembly
83	618-0063A	Bearing Assembly, Friction Wheel
84	710-0896	Screw, 1/4-14 x .625
85	935-04054	Friction Wheel, 5.5 OD
86	790-00174	Friction Wheel Plate
87	736-0320	Washer, Flat, .38 x 1.38
88	738-04164A	Friction Pin, Disc Bearing
89	634-04136-0911	Wheel, LH, 16 x 6.5-8
—	634-04147A	Wheel, LH, 15 x 5-6
—	634-04145	Wheel, LH, 16 x 4.8-8
—	634-04137-0911	Wheel, RH, 16 x 6.5-8
—	634-04148A	Wheel, RH, 15 x 5-6
—	634-04146	Wheel, RH, 16 x 4.8-8

This page left intentionally blank.

Auger & Auger Housing



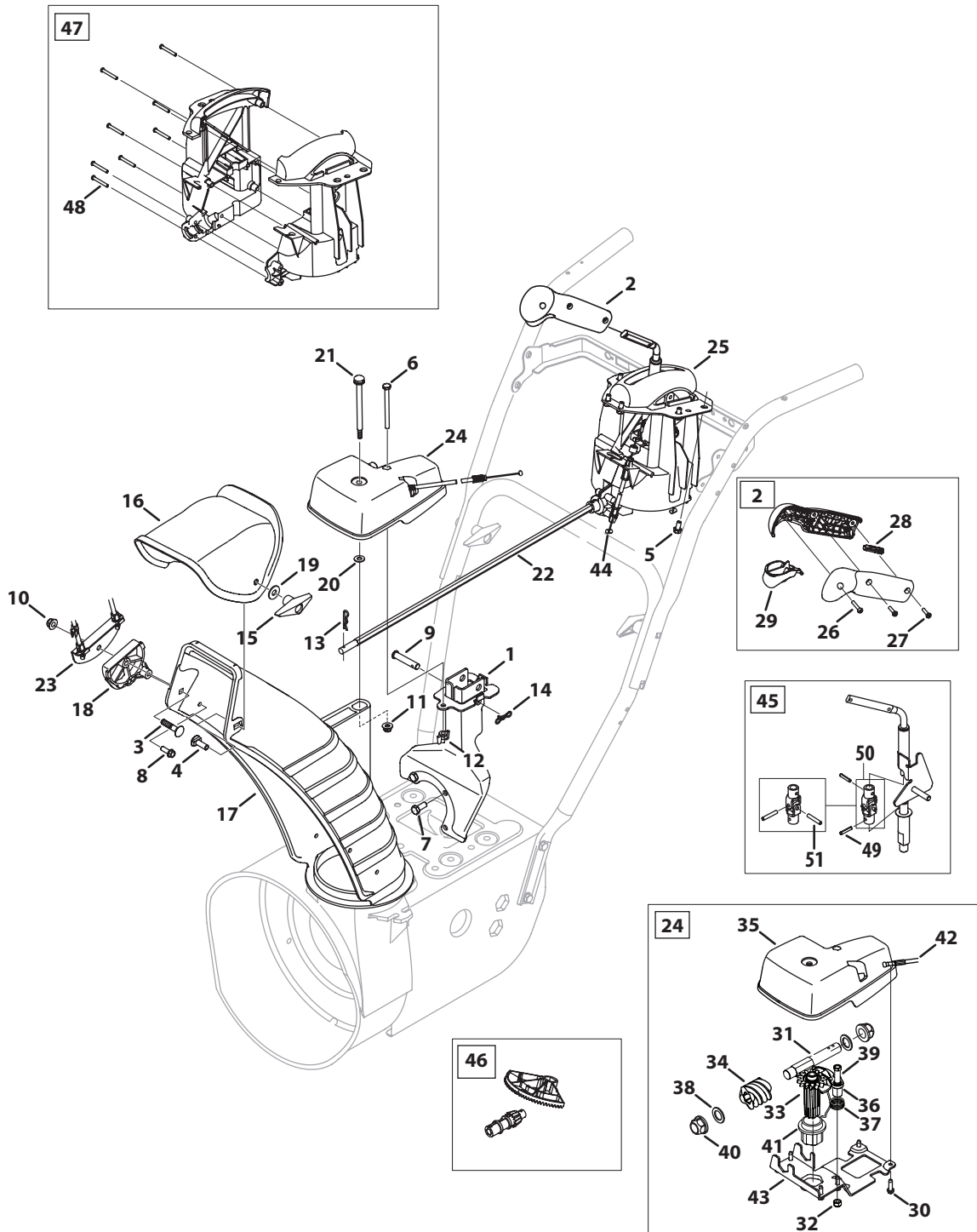
Auger & Auger Housing

Ref.	Part Number	Description
1	918-04165A	Auger Gearbox 30", includes 38-52
—	918-04173A	Auger Gearbox 28", includes 38-52
—	918-04172B	Auger Gearbox 26", includes 38-52
—	918-04171B	Auger Gearbox 24", includes 38-52
2	684-04057A	Impeller Assembly, 12" Dia.
3	710-0347	Hex Head Screw, 3/8-16 x 1.75
4	710-04484	Screw, 5/16-18 x .750
5	710-0276	Screw, Carriage, 5/16-18 x 1.00
—	710-0451	Bolt, Carriage, 5/16-18 x .750 (Troy)
6	712-04063	Nut, Flange lock, 5/16-18
7	712-04065	Nut, Flange lock, 3/8-16
8	714-04040	Bow-Tie Cotter Pin
9	725-0157	Cable Tie, 7"
10	926-04012	Nut, Push-on, .25 Dia.
11	732-04460	Extension Spring, .38 x 4.59
12	736-0174	Washer, Wave, .625 x .885
13	736-0242	Washer, Bell, .340 x .872
14	684-04107	Spiral Assembly, LH
15	738-0143	Bolt, Shoulder, .496 x .336 x 3/8-16
16	938-0281	Screw, Shoulder, .625 x .17 x 3/8-16
17	738-04124A	Shear Pin, .25 x 1.50
18	941-0245	Bearing, Hex Flange, .75
19	941-0309	Bearing, Ball, .75 x 1.85
20	756-04224	Pulley, Idler, Flat, 2.75
21	790-00075	Bearing, 1.85 ID
22	790-00080B	Auger Idler Bracket
23	684-04108	Spiral Assembly, RH
24	684-04267	Auger Housing Assembly
—	684-04273	Auger Housing Ass'y, Troy-Bilt, 30"
—	684-04272	Auger Housing Ass'y, Troy-Bilt, 28"
—	684-04271	Auger Housing Ass'y, Troy-Bilt, 26"
—	684-04270	Auger Housing Ass'y, Troy-Bilt, 24"
25	731-04870	Spacer, 1.25 x .75 x 1.00
26	731-04871	Spacer, 1.25 x .75 x 2.00
27	736-0188	Washer, Flat, .76 x 1.49
28	741-0493A	Bushing, Flange, .800 x .910

Ref.	Part Number	Description
29	790-00087A	Bearing, 1" Hex
30	790-00119	Shave Plate, 2.25 x 29.66
—	790-00118	Shave Plate, 2.25 x 27.66
—	790-00121	Shave Plate, 2.25 x 25.66
—	790-00120	Shave Plate, 2.25 x 23.66
31	731-05984A	Polymer Slide Shoe
—	790-00091	Deluxe Slide Shoe - Troy-Bilt
32	790-00181	Blade Guide
33	710-0703	Screw, Carriage, 1/4-20 x .75
34	712-04064	Nut, Flange lock, 1/4-20
35	731-07525	Chute Adapter
36	731-2635	Clean-Out Tool Mount
37	931-2643	Clean-Out Tool
38	918-0123A	Reducer, RH
39	918-0124A	Reducer, LH
40	710-0642	Screw, 1/4-20 x 0.750
41	711-04282	Auger Axle, 30"
—	711-04283	Auger Axle, 28"
—	711-04284	Auger Axle, 26"
—	711-04285	Auger Axle, 24"
42	914-0161	Key, Hi-Pro, 3/16 x 5/8
43	715-04021	Dowel Pin, .25 x 1.25
44	917-04126	Worm Shaft, .75
45	917-04861	Gear Worm, 20T
46	718-04071	Collar Thrust, .756 x .600
47	721-0325	Plug, 1/4 x .437
48	721-0327	Oil Seal, .75 x 1.131 x .188
49	936-0351	Washer, Flat, .760 x 1.50
50	736-3084	Washer, Flat, .51 x 1.12
51	741-0662	Bearing, Flange, .75 x 1.00 x .59
52	741-0663	Bearing, Flange, .50 x .75 x .59
53	929-0071A	Extension Cord, 110V
54	946-04230A	Auger Drive Clutch Cable
55	936-0159†	Washer, Flat, .349 x .879 x .063
56	920-0284	Wing Knob, 5/16-18

† If Equipped

4-Way Chute Control (Non-Electric)



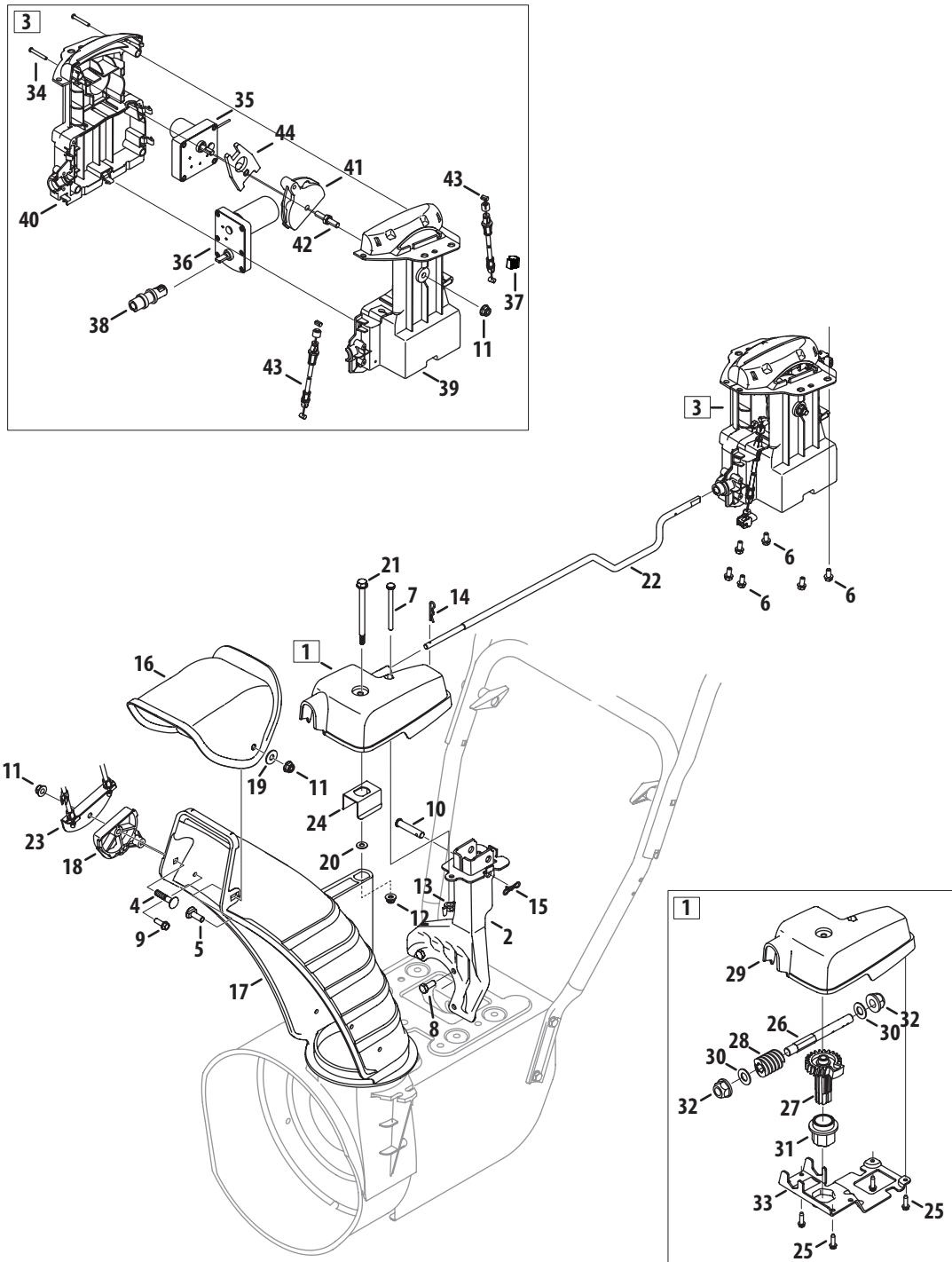
4-Way Chute Control (Non-Electric)

Ref.	Part Number	Description
1	684-04310A	Chute Support Bracket
2	753-06151	Handle Assembly
3	710-0262	Bolt, Carriage, 5/16-18 x 1.50
4	710-04071	Bolt, Carrier, 5/16-18 x 1.00
5	710-04187	Screw, HL, 1/4-15 x 0.50
6	710-04370	Hex Head Screw, 1/4-20 x 3.00
7	710-0627	Hex Head Screw, 5/16-24 x .750
8	710-0895	Screw, HL, 1/4-15 x 0.750
9	711-04469A	Clevis Pin, 3/8 x 1.87
10	712-04063	Nut, Flangelock, 5/16-18
11	712-04064	Nut, Flangelock, 1/4-20
12	712-3087	Wing Nut, 1/4-20
13	914-0101	Internal Cotter Pin
14	714-04040	Bow-Tie Cotter Pin
15	920-0284	Wing Knob, 5/16-18
16	731-04427A	Chute, Upper
—	931-04425B	Chute, Upper (Export)
17	731-06440A	Chute, Lower
18	731-06451	Cable Guide, Chute Tilt
19	936-0159	Washer, Flat, .349 x .879
20	736-04446	Washer, Flat, .25 x .630
21	738-04367	Screw, Shoulder, .312 x 3.5 x 1/4-20
22	747-05116	Chute Rod, 3/8 Hex
23	784-5594	Cable Bracket
24	918-04801A	Gearbox Assembly, Chute Rotation
25	984-04338A	Chute Control, 4-Way
26	710-04353	Screw, #8 x 1.00

Ref.	Part Number	Description
27	710-04879	Screw, 8-32 x .750
28	731-04893A	Joystick Plug
29	731-07031	Joystick Trigger
30	710-04373A	Screw, 12-16 x .75
31	711-05186	Hex Shaft
32	712-0896	Hexlock Nut, 1/4-28
33	717-04667	Gear, 14 T
34	717-04672	Worm
35	731-06906	Gear Cover
36	731-06943A	Pawl Lock
37	732-04638C	Torsion Spring, .721 ID x .474
38	736-0290	Washer, Flat, .625 x 1.0 x .067
39	738-04391	Screw, Shoulder, .340 x .950 x 1/4-28
40	941-0225	Hex Bearing
41	741-04388	Flange Bearing
42	946-04619B	Cable Lock
43	790-00342B	Gear Bracket
44	946-04528A	4-Way Cable
	946-04477†	4-Way Cable w/Clip
45	984-04324A	Shift Assembly
46	753-06152	Gear Set Assembly
47	753-06153	Handle Housing Assembly
48	710-1256	Screw, #8-18 x 1.250
49	715-04095	Pin, Roll
50	684-04350	Block, Asm Joint
51	715-0150	Pin, Roll

† Not Shown

4-Way Chute Control (Electric)



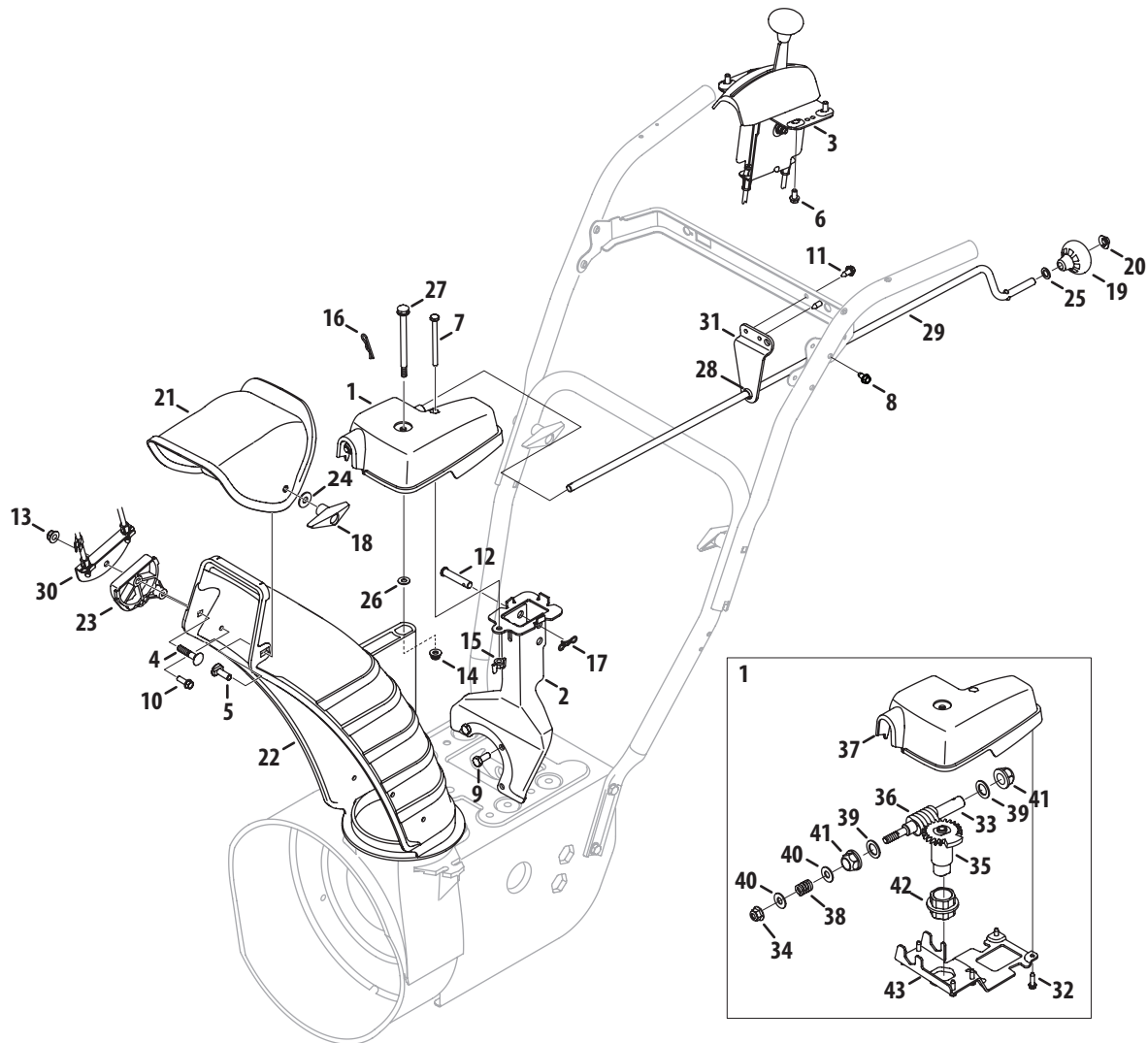
4-Way Chute Control (Electric)

Ref.	Part Number	Description
1	618-04932A	Gearbox Assembly, Chute Rotation
2	684-04310A	Chute Support Bracket
3	684-04404	Chute Assembly, 4-Way Elec.
4	710-0262	Bolt, Carriage, 5/16-18 x 1.50
5	710-04071	Bolt, Carrier, 5/16-18 x 1.00
6	710-04187	Screw, HL, 1/4-15 x 0.50
7	710-04370	Hex Head Screw, 1/4-20 x 3.00
8	710-0627	Hex Head Screw, 5/16-24 x .750
9	710-0895	Screw, HL, 1/4-15 x 0.750
10	711-04469A	Clevis Pin, 3/8 x 1.87
11	712-04063	Nut, Flangelock, 5/16-18
12	712-04064	Nut, Flangelock, 1/4-20
13	712-3087	Wing Nut, 1/4-20
14	914-0101	Internal Cotter Pin
15	714-04040	Bow-Tie Cotter Pin
16	731-04427A	Chute, Upper
17	731-06440A	Chute, Lower
18	731-06451	Cable Guide, Chute Tilt
19	936-0159	Washer, Flat, .349 x .879
20	736-04446	Washer, Flat, .25 x .630
21	738-04367	Screw, Shoulder, .312 x 3.5 x 1/4-20
22	747-05721	Chute Crank Rod
23	784-5594	Cable Bracket

Ref.	Part Number	Description
24	790-00503	Chute Bracket
25	710-04373A	Screw, 12-16 x .75
26	711-05752	Hex Shaft
27	717-04973	Gear, 23 T
28	717-05019	Worm
29	731-07529A	Gear Cover
30	936-0272	Flat Washer, .510 x 1.00 x .060
31	741-04388A	Flange Bearing, 1.00 ID
32	741-04453A	Flange Bearing, .50 ID
33	790-00342B	Gear Bracket
34	710-04509	Screw, #10-16 x 1.25
35	724-04145	Chute Pitch Motor
36	724-04146	Chute Rotation Motor
37	731-07868	Cable Clip
38	731-08795	Electric Chute Coupler
39	731-08845	Housing, LH
40	731-08846	Housing, RH
41	731-1313C	Cable Guide
42	738-0849	Hex Screw, 5/16-18 x .75
43	946-04528B	4-Way Cable
	946-04477†	4-Way Cable w/Clip
44	748-04297	Chute Pitch Adapter

† Not Shown

2-Way Extended Chute

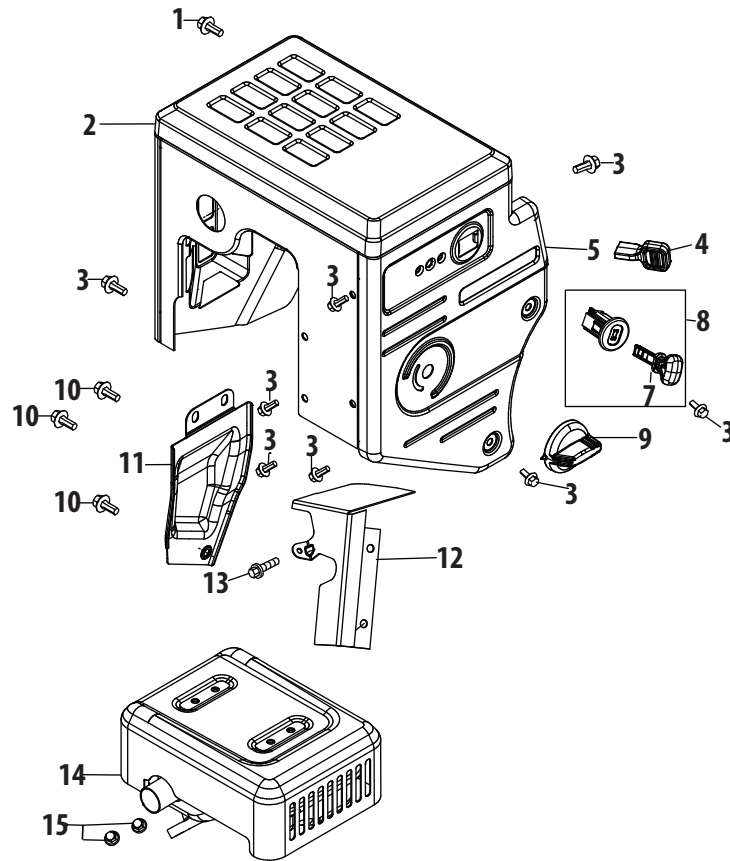


2-Way Extended Chute

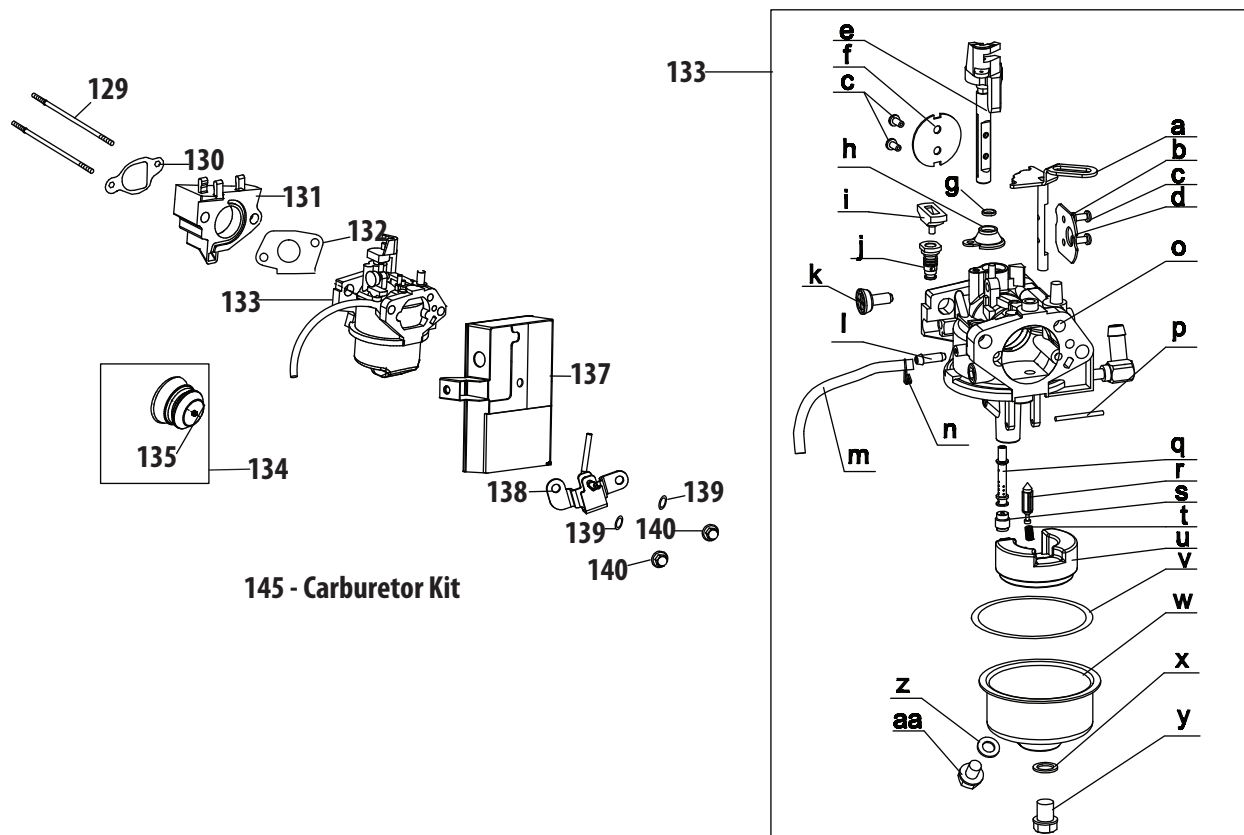
Ref.	Part Number	Description
1	918-04933	Chute Rotation Gearbox
2	684-04310A	Chute Support Bracket (lrg. block)
—	684-04311A	Chute Support Bracket (small block)
3	984-04325A	Chute Control, 2-Way
4	710-0262	Bolt, Carriage, 5/16-18 x 1.50
5	710-04071	Bolt, Carrier, 5/16-18 x 1.00
6	710-04187	Screw, Hi-Lo, 1/4-15 x 0.50
7	710-04370	Hex Head Screw, 1/4-20 x 3.00
8	710-0599	Screw, TT, 1/4-20 x .500
9	710-0627	Hex Head Screw, 5/16-24 x .750
10	710-0895	Screw, Hi-Lo, 1/4-15 x 0.750
11	710-1652	Screw, 1/4-20 x .625
12	711-04469A	Clevis Pin, 3/8 x 1.87
13	712-04063	Nut, Flange Lock, 5/16-18
14	712-04064	Nut, Flange Lock, 1/4-20
15	712-3087	Wing Nut, 1/4-20
16	914-0101	Internal Cotter Pin
17	714-04040	Bow-Tie Cotter Pin
18	920-0284	Wing Knob, 5/16-18
19	720-04102	Shift Knob, .390
20	926-0100	Push Cap, 3/8
21	931-04425B	Upper Chute

Ref.	Part Number	Description
22	731-06440A	Lower Chute, 5.0
23	731-06451	Cable Guide, Chute Tilt
24	936-0159	Washer, Flat, .349 x .879
25	936-0185	Flat Washer, .375 x .738 x .063
26	736-04446	Washer, Flat, .25 x .630
27	738-04367	Shoulder Screw, .312 x 3.5 x 1/4-20
28	941-0475	Plastic Bushing, .380 ID
29	747-05386	Chute Crank
30	784-5594	Cable Bracket
31	790-00341	Support Rod Bracket
32	710-04373A	Screw, 12-16 x .75
33	711-05329	Worm Shaft
34	712-04065	Flange Lock Nut, 3/8-16
35	717-04667	Gear Assembly
36	717-04672	Worm
37	731-07529A	Gear Cover
38	732-04756	Compression Spring, .39 x .60 x .88
39	736-0290	Flat Washer, .625 x 1.0 x .067
40	736-3072	Flat Washer, .380 x .93 x .110
41	941-0225	Hex Bearing
42	741-04388A	Flange Bearing
43	790-00342B	Gear Bracket

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

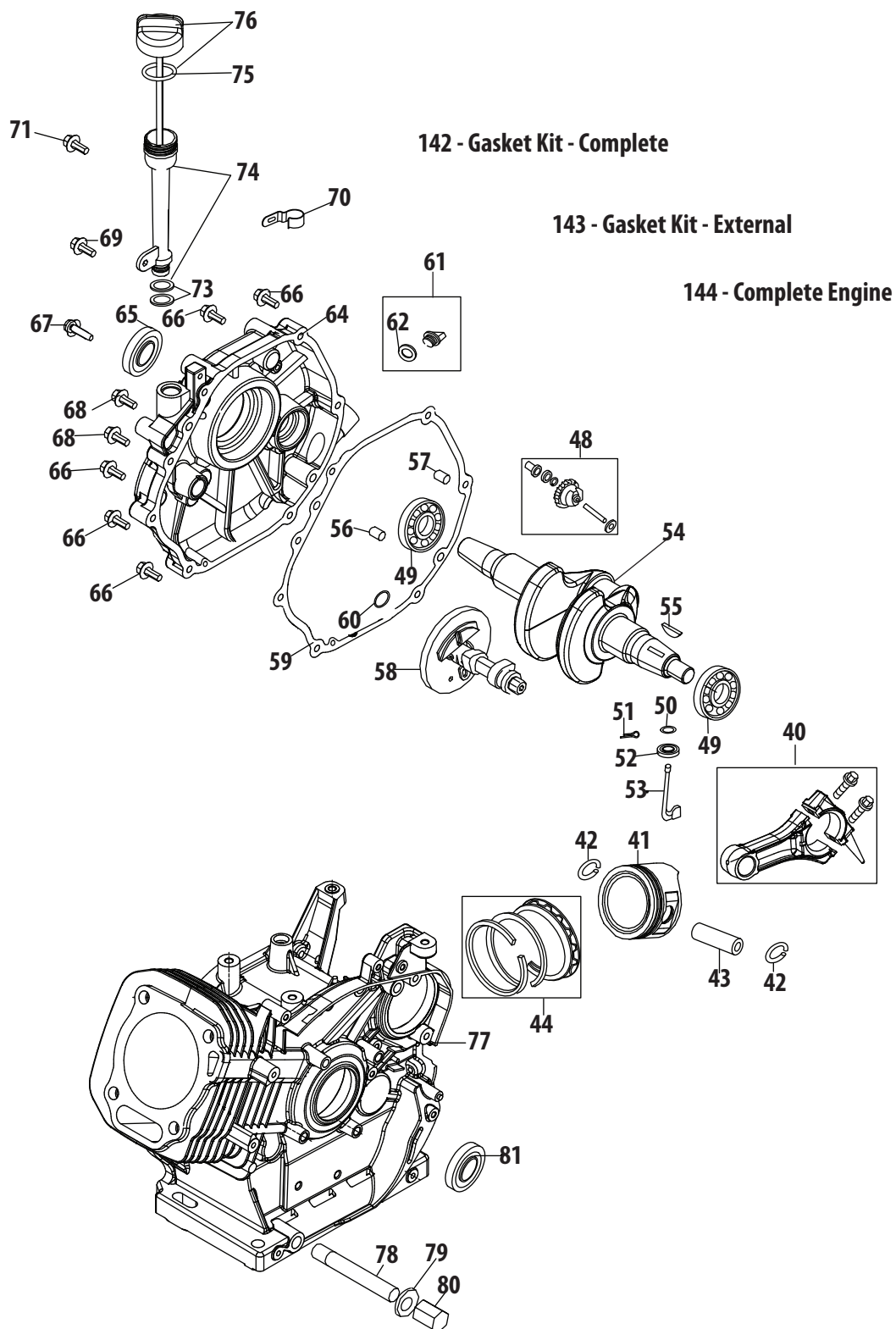


145 - Carburetor Kit

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

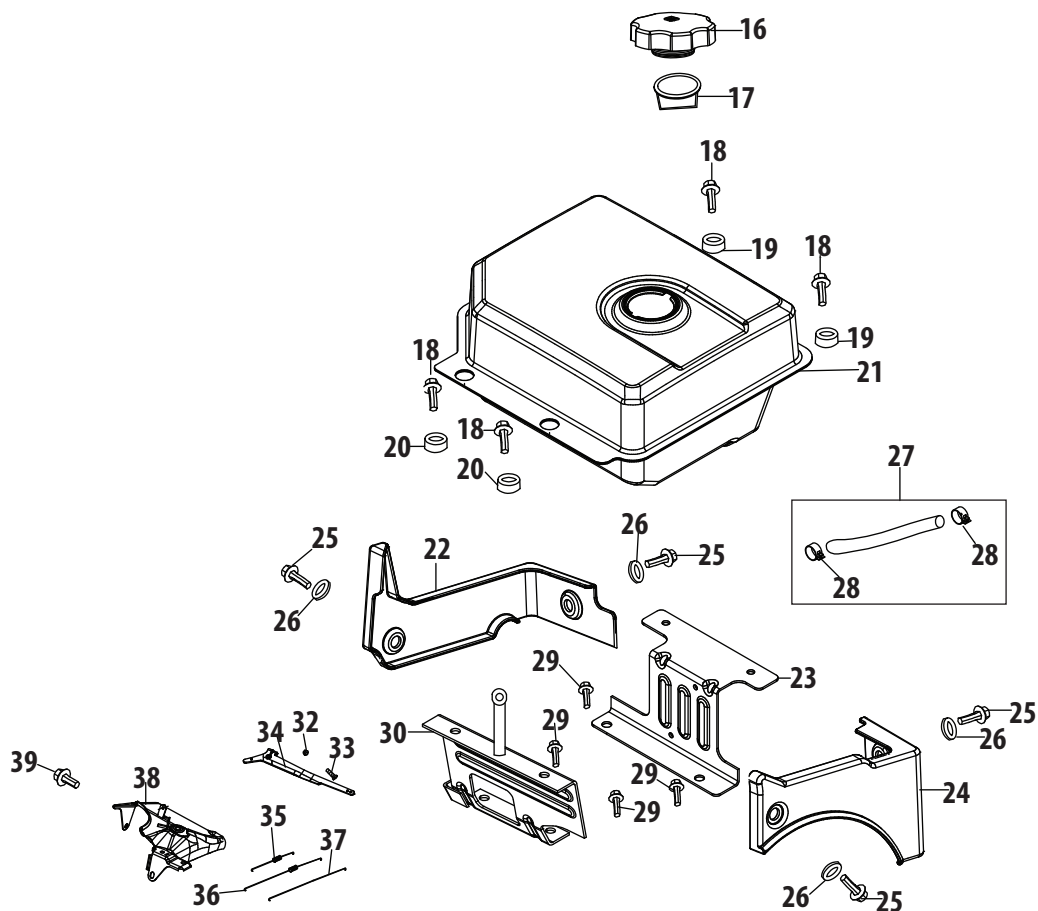
Ref.	Part Number	Description
h	n/a	Throttle Shaft Cover
i	n/a	Idle Jet Rivet
j	n/a	Idle Jet Assembly
k	n/a	Idle Speed Adjusting Screw
l	n/a	Primer Pipe
m	751-11991	Primer Hose
n	951-11906	Hose Clamp
o	n/a	Carburetor Body
p	n/a	Float Pin
q	n/a	Emulsion Tube
r	n/a	Needle Valve
s	n/a	Main Jet
t	n/a	Needle 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	Ref.	Part Number	Description
40	951-12066	Connecting Rod Assembly	66	710-04971	Bolt M8×38
41	951-12043	Piston	67	710-04972	Bolt M8×45
42	951-11632	Piston Pin Snap Ring	68	710-05052	Bolt M8×35
43	951-12044	Piston Pin	69	710-04968	Bolt M6×16
44	951-12387	Piston Ring Set	70	951-11320	Dipstick Clamp
48	751-12068	Governor Gear/Shaft Assembly	71	710-05349	Bolt M6×8
49	951-12069	Radial Ball Bearing	73	951-11904	Oil Fill Tube O-Ring
50	736-04453	Washer 8×20×0.8	74	951-12073	Oil Fill Tube Assembly
51	714-04077	Cotter Pin	75	951-11381	Dipstick O-Ring
52	951-11958	Governor Seal	76	951-11971A	Dipstick Assembly
53	951-12071	Governor Arm Shaft	77	951-11230	Crankcase Kit
54	951-11229	Crankshaft Kit (Incl. 49,54,55,65,81)			(Incl. 49,52,77,81)
55	951-10307	Woodruff Key		951-11187	Short Block Assembly
56	715-04102	Dowel Pin 9×12			(Incl. 40-44,48-68,77-81,103, 106,107,109,111,124,130-132)
57	715-04092	Dowel Pin 7×14	78	951-11350	Oil Drain Pipe
58	951-12072	Camshaft Assembly	79	736-04440	Washer 10×16×1.5
59	951-11374	Crankcase Cover Gasket	80	710-04906	Oil Drain Plug
60	736-04545	Washer 16×24×0.5	81	751-11498	Oil Seal 30×46×8
61	951-11283	Oil Fill Plug Assembly	142	951-11209	Gasket Kit - Complete
62	951-11577	O-Ring			(Incl. 52,59,65,79,81,107, 109,124,130-132)
64	951-12395	Crankcase Cover	143	951-11210	Gasket Kit - External
64	951-11228	Crankcase Cover Kit (Incl. 49,59,50,64-68)			(Incl. 79,109,124,130-132)
65	951-11372	Oil Seal, 30×46×8	144	952Z478-SUB	Complete Engine

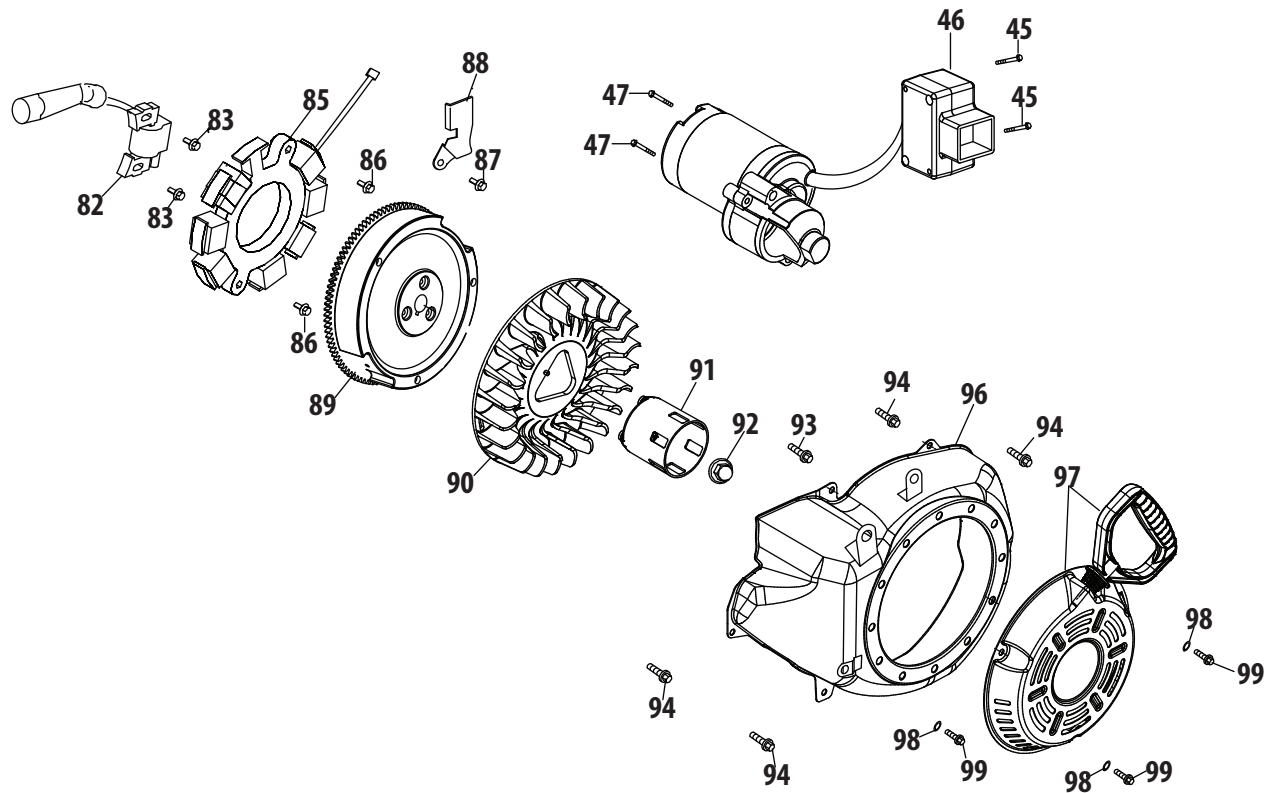
478-SUB Fuel Tank & Mounting



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

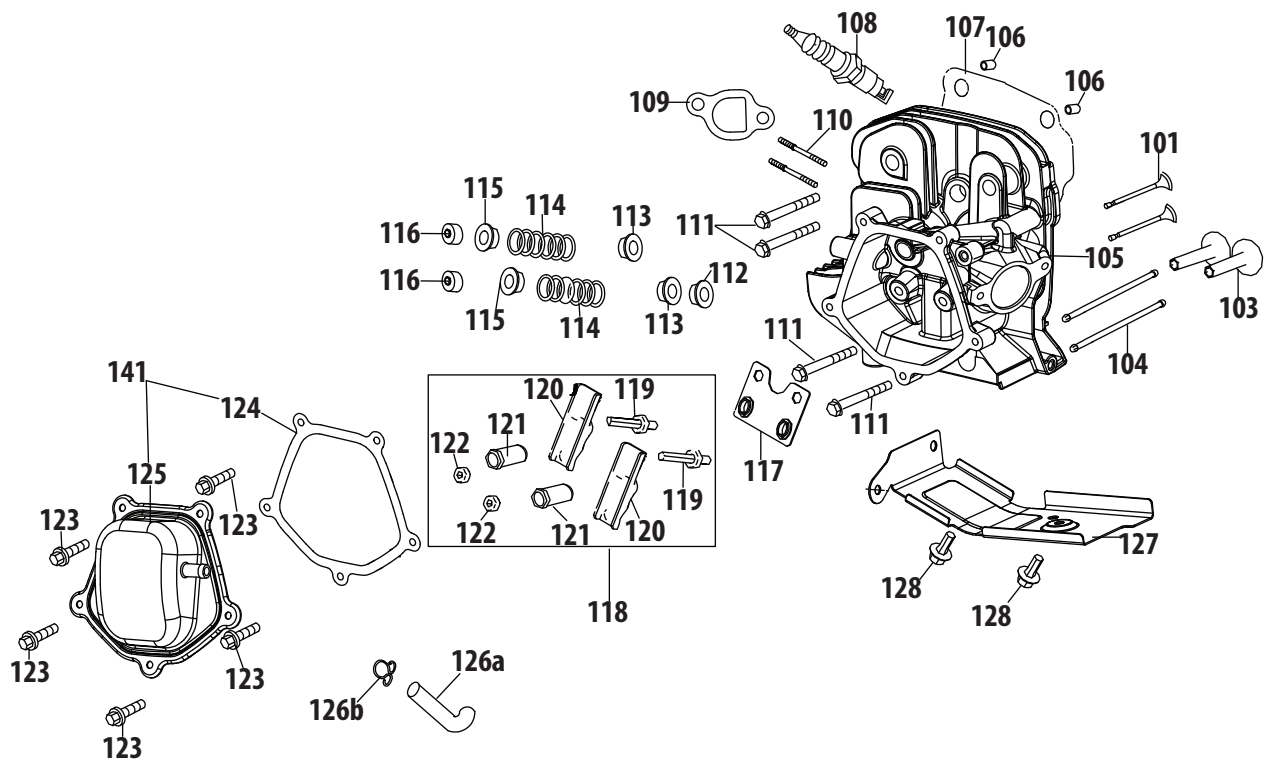
478-SUB Starting System & Blower Housing



Ref.	Part Number	Description
45	710-04965	Bolt M4x55
46	951-11196	Electric Starter
47	710-04967	Bolt M8x55
82	951-11498	Ignition Coil Assembly
83	951-11197	Ignition Coil Bolt
85	951-12553	Alternator Assembly
86	710-04969	Bolt M6x30
87	710-04966	Bolt M6x8
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, M16x1.5
93	710-04968	Bolt M6x16
94	710-04915	Bolt M6x12
96	951-11379	Blower Housing
97	951-11208	Recoil Starter
98	736-04455	Gasket 6
99	710-04974	Bolt M6x10

478-SUB Cylinder Head



142 - Gasket Kit - Complete

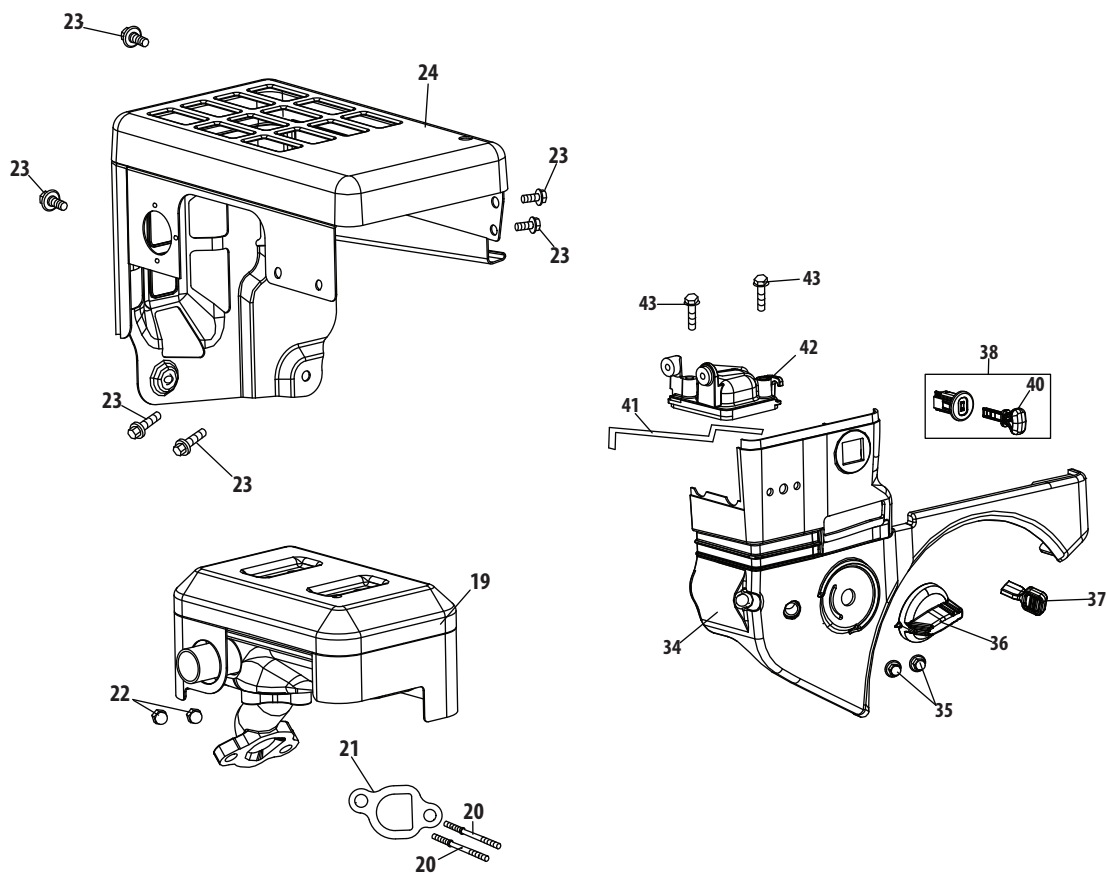
143 - Gasket Kit - External

144 - Complete Engine

478-SUB Cylinder Head

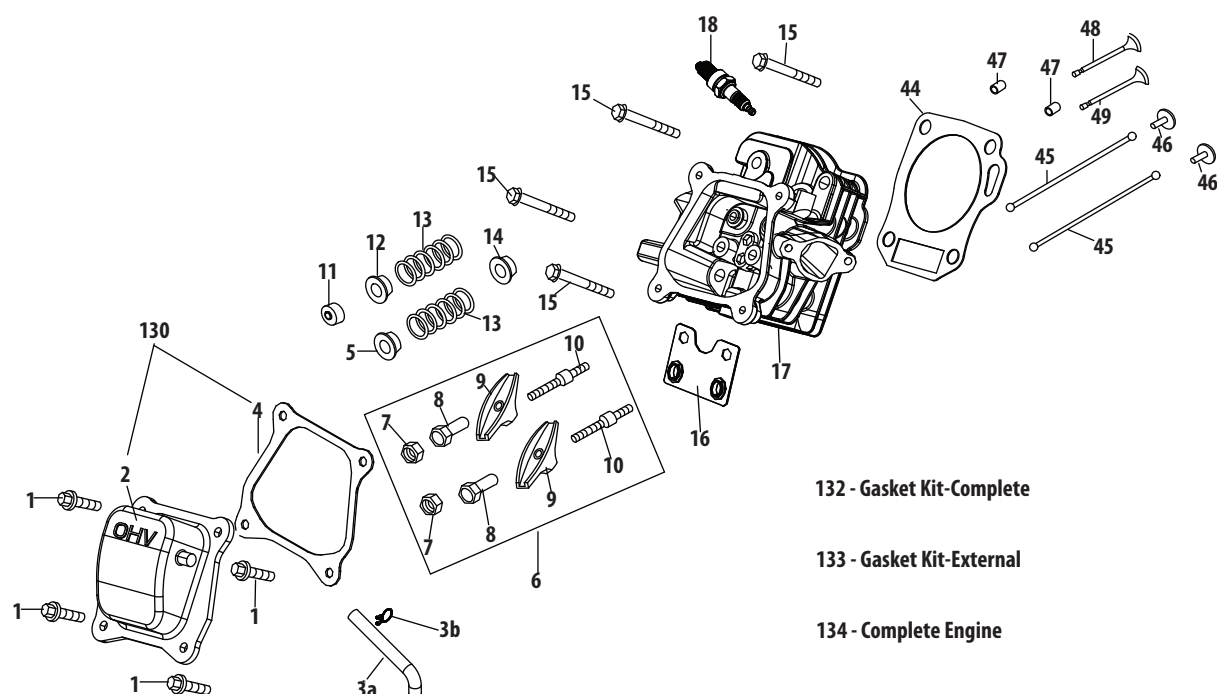
Ref.	Part Number	Description	Ref.	Part Number	Description
101	951-11198	Valve Kit	117	951-11965	Push Rod Guide
103	951-11962	Tappet	118	951-11981	Rocker Arm Assembly
104	951-11199	Push Rod Kit	119	710-04962	Bolt, Pivot
105	951-11226	Cylinder Head Kit (Incl.107,111,112,125)	120	951-11966	Rocker Arm
	951-11188	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

370-SUC Muffler & Air Housing



Ref.	Part Number	Description
19	951-11282	Muffler Assembly
20	710-05001	Stud M8×36
20	751-14190	Muffler Stud
21	951-11289	Exhaust Pipe Gasket
22	712-04214	Nut, M8
23	710-04915	Bolt M6×12
24	951-10642B	Muffler Shield
34	951-10634	Air Cleaner Housing

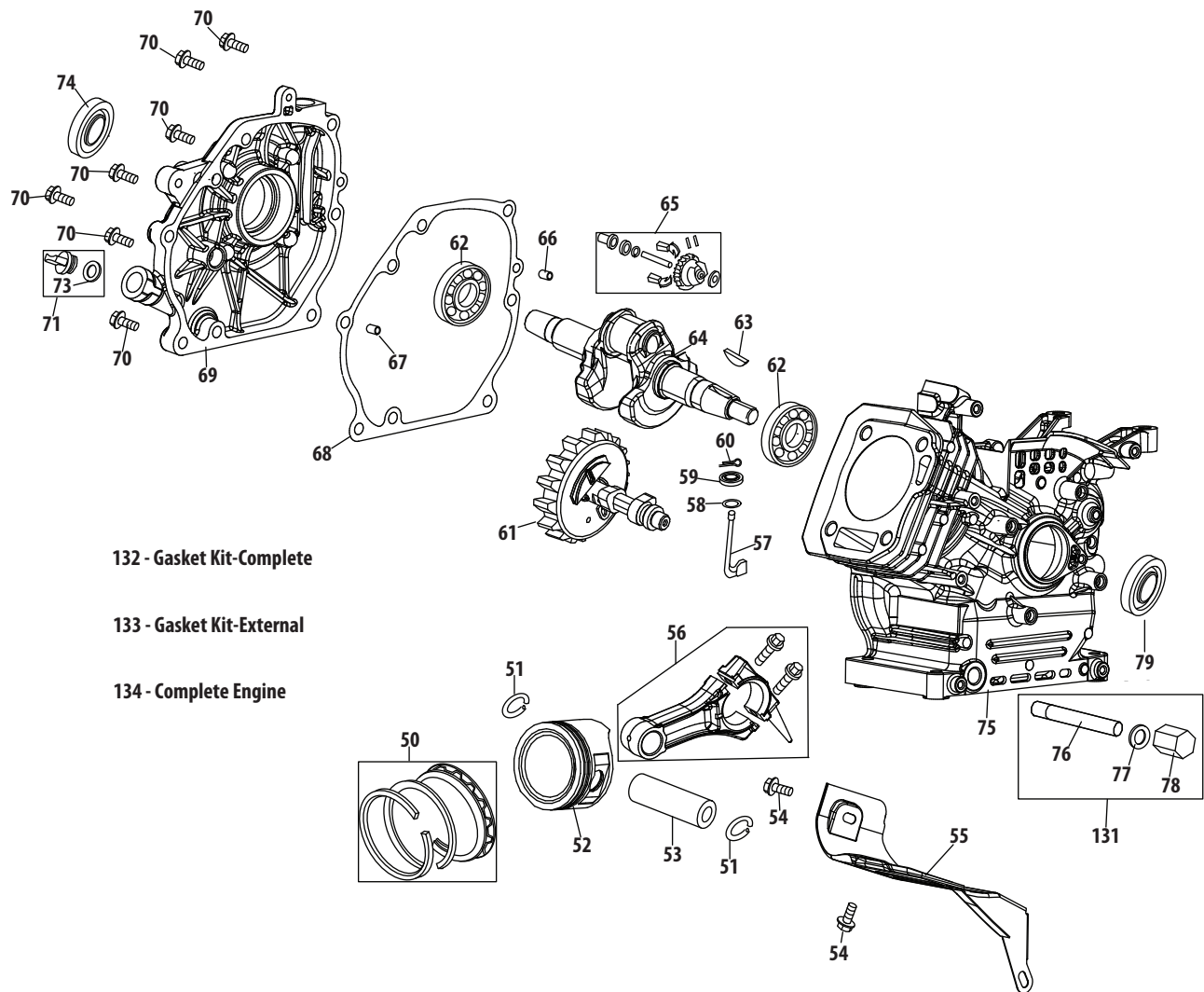
Ref.	Part Number	Description
35	712-04213	Nut
36	951-11284	Choke Knob
37	951-10757	Throttle Control Knob
38	951-10637	Key Switch Assembly
40	731-05632	Key
41	951-10640	Choke Linkage
42	951-10635	Heater Box
43	710-04943	Bolt M6×28



Ref.	Part Number	Description
1	710-04968	Bolt M6×16
2	951-11054A	Valve Cover
3a	731-07059	Breather Hose
3b	726-04101	Hose Clamp
4	951-11565	Valve Cover Gasket
5	951-12000	Valve Spring Retainer (Intake)
6	951-11892	Rocker Arm Assembly
7	751-11124	Nut, Pivot Locking
8	751-11123	Adjusting Nut ,Valve
9	951-11893	Rocker Arm
10	710-04902	Bolt, Pivot
11	951-12002	Exhaust Lash Cap
12	951-12003	Valve Spring Retainer (Exhaust)
13	951-12004	Valve Spring
14	951-11894	Valve Seal (Intake)
15	710-04933	Bolt M8×55
16	951-11895	Push Rod Guide

Ref.	Part Number	Description
17	951-10722B	Cylinder Head Asm (Incl. 4,21,27-29,32,44,58, 59,68,74,77,79)
18	951-10292	Spark Plug/F6Rtc
44	951-11572	Gasket, Cylinder Head
45	951-10648	Kit-Push Rod
46	951-11899	Tappet
47	715-04108	Dowel Pin 10×16
48	951-10647A	Valve Kit
49	951-10647A	Valve Kit
130	951-12626	Valve Cover Kit
132	951-11059A	Gasket Kit-Complete (Incl. 4-14,16,17,21,27-29,44,48,49)
133	951-10661B	Gasket Kit-External (Incl. 4,21,27-29,32,77)
134	952Z370-SUC	Complete Engine

370-SUC Crankcase



132 - Gasket Kit-Complete

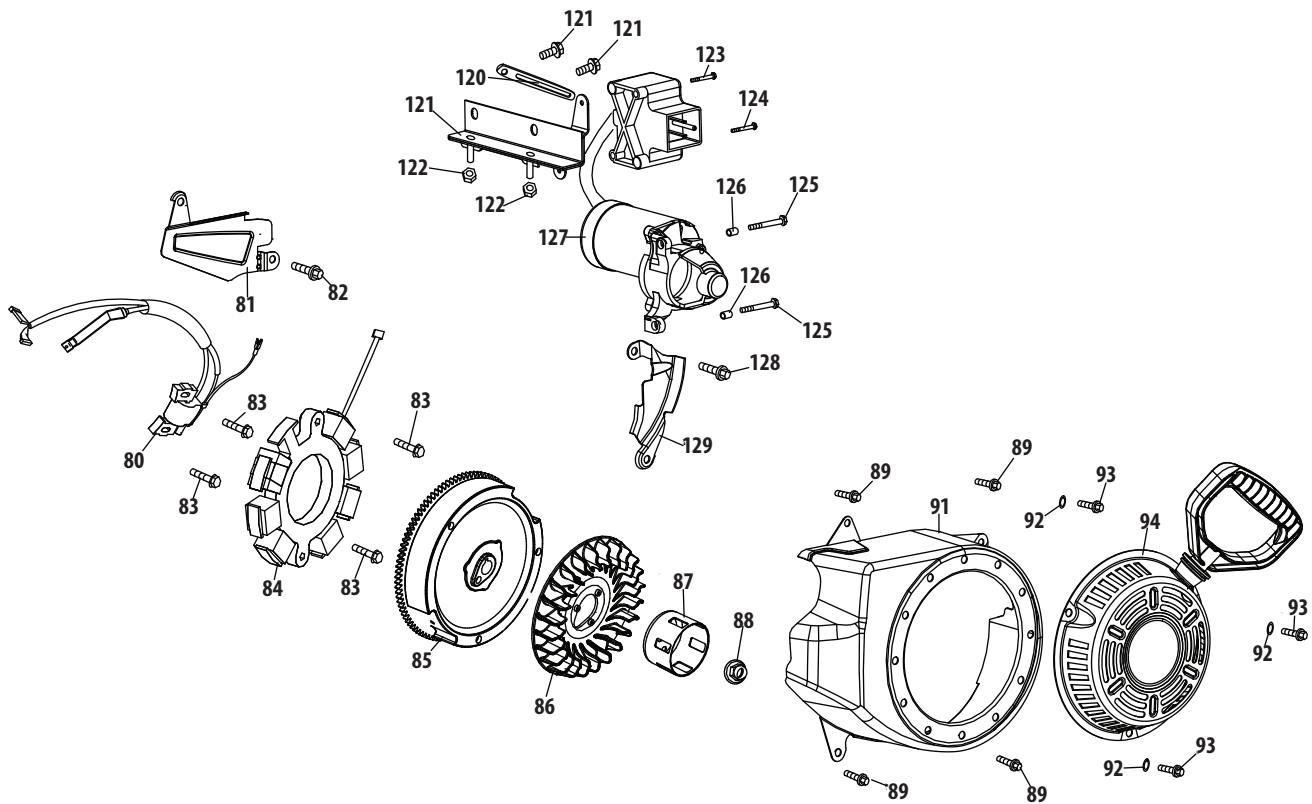
133 - Gasket Kit-External

134 - Complete Engine

Ref.	Part Number	Description
50	951-12111	Piston Ring Set
51	951-11632	Piston Pin Snap Ring
52	951-12007	Piston
53	951-11633	Piston Pin
54	710-04915	Bolt M6×12
55	951-11113	Air Shield
56	951-11573	Connecting Rod Assembly
57	751-14053	Governor Arm Shaft
58	736-04461	Washer 5.2×1.9
59	951-11902	Governor Seal
60	714-04078	Cotter Pin
61	951-11575	Camshaft Assembly
62	951-11369	Radial Ball Bearing, 6205
63	951-10307	Woodruff Key
64	951-11247A	Crankshaft Kit (Incl. 62-64,74,79)
65	951-11576	Governor Gear/Shaft Assembly
66	715-04092	Dowel Pin 7×14
67	715-04096	Dowel Pin 9×14
68	951-11371	Crankcase Cover Gasket
69	951-12125	Crankcase Cover

Ref.	Part Number	Description
69	951-11246	Crankcase Cover Kit (Incl. 62,68-74)
70	710-04932	Bolt M8×32
71	951-11283	Oil Filler Plug Assembly
73	951-11577	O-Ring 15.8×2.5
74	951-11368	Oil Seal, 25×41.25×6
75	951-11249	Crankcase Kit (Incl. 59,62,74,75,79)
	951-11060B	Short Block Assembly (Incl. 4,21,27-29,44,46, 47,50-53,56-79)
76	951-11350	Oil Drain Pipe
77	736-04440	Washer 10×16×1.5
78	710-04906	Oil Drain Plug
79	951-11370	Oil Seal 25×41.25×6
131	951-10641	Oil Drain Assembly
132	951-11059A	Gasket Kit-Complete (Incl. 4-14,16,17,21,27-29,44,48,49)
133	951-10661B	Gasket Kit-External (Incl. 4,21,27-29,32,77)
134	952Z370-SUC	Complete Engine

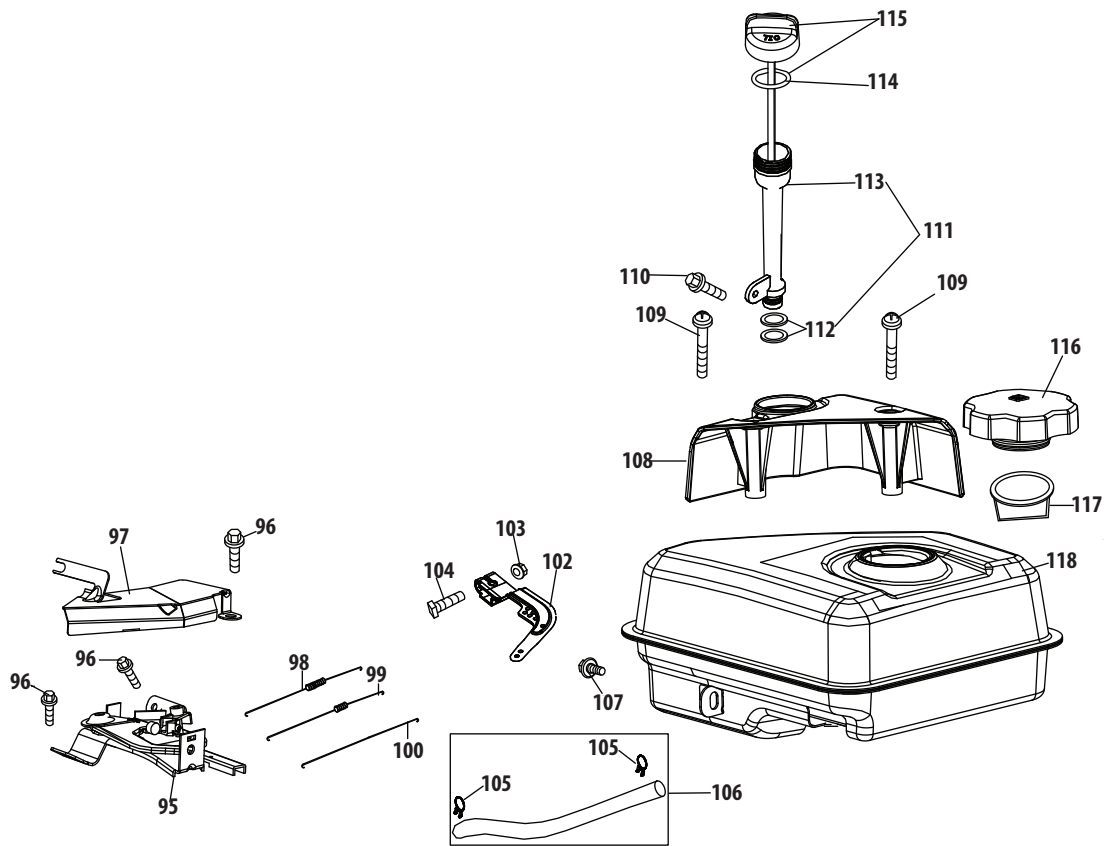
370-SUC Starter Assembly & Blower Housing



Ref.	Part Number	Description
80	951-10646	Ignition Coil Assembly
81	951-11110	Air Flow Shield
82	710-04940	Bolt M6×10
83	710-04919	Bolt M6×25
84	951-12050A	Alternator Assembly
85	951-12051	Flywheel
86	951-10934	Cooling Fan
87	951-10911	Starter Cup
88	712-04209	Flywheel Nut, M14×1.5
89	710-04915	Bolt M6×12
91	951-10663A	Blower Housing
92	736-04455	Washer 6
93	710-04974	Bolt M6×10

Ref.	Part Number	Description
94	751-14151	Recoil Starter Assembly
119	710-04914	Bolt M6×10
120	951-11680	Electric Starter Cord Retainer
121	951-11114	Switch Housing Mounting Bracket
122	712-05015	Nut, M6
123	710-04965	Bolt M4×55
124	710-04935	Bolt M4×60
125	710-05182	Bolt M6×32
126	715-04088	Dowel Pin 8×8
127	951-10645A	Electric Starter
128	710-04915	Bolt M6×12
129	951-11109	Blower Housing Shield

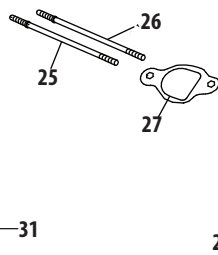
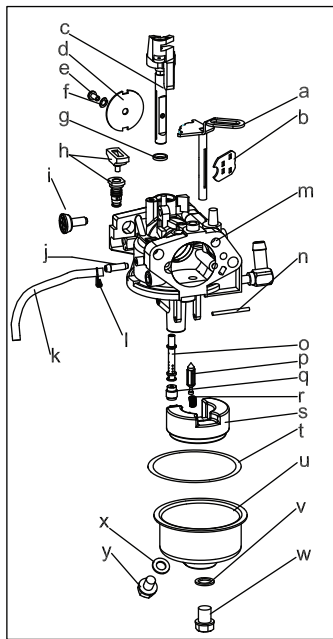
370-SUC Fuel Tank & Mounting



Ref.	Part Number	Description
95	951-10758	Throttle Bracket
96	710-05103	Bolt M6×12
97	951-11108	Governor Linkage Shield
98	951-11935	Governor Spring
99	951-10664	Throttle Linkage Spring
100	951-10665	Throttle Linkage
102	951-11106	Governor Arm
103	712-04212	Nut M6
104	710-04908	Governor Arm Bolt
105	951-11700	Fuel Hose Clamp
106	951-10650	Kit-Fuel Line
107	710-04915	Bolt M6×12

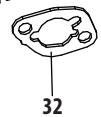
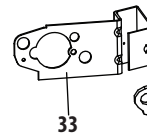
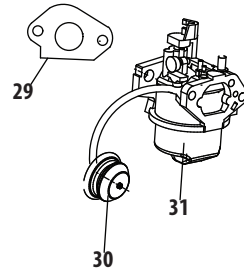
Ref.	Part Number	Description
108	951-11914	Dipstick Decoration Cover
109	710-04905	Bolt
110	710-04915	Bolt M6×12
111	951-11913	Oil Fill Tube Assembly
112	951-11904	Dipstick O-Ring
113	951-10656	Oil Fill Tube
114	951-11381	Dipstick O-Ring
115	951-12482	Dipstick Asm
116	951-12533	Fuel Cap Assembly
117	951-11933	Fuel Level Indicator
118	951-10653B	Fuel Tank Assembly

370-SUC Carburetor



135 - Carburetor Kit - Deni

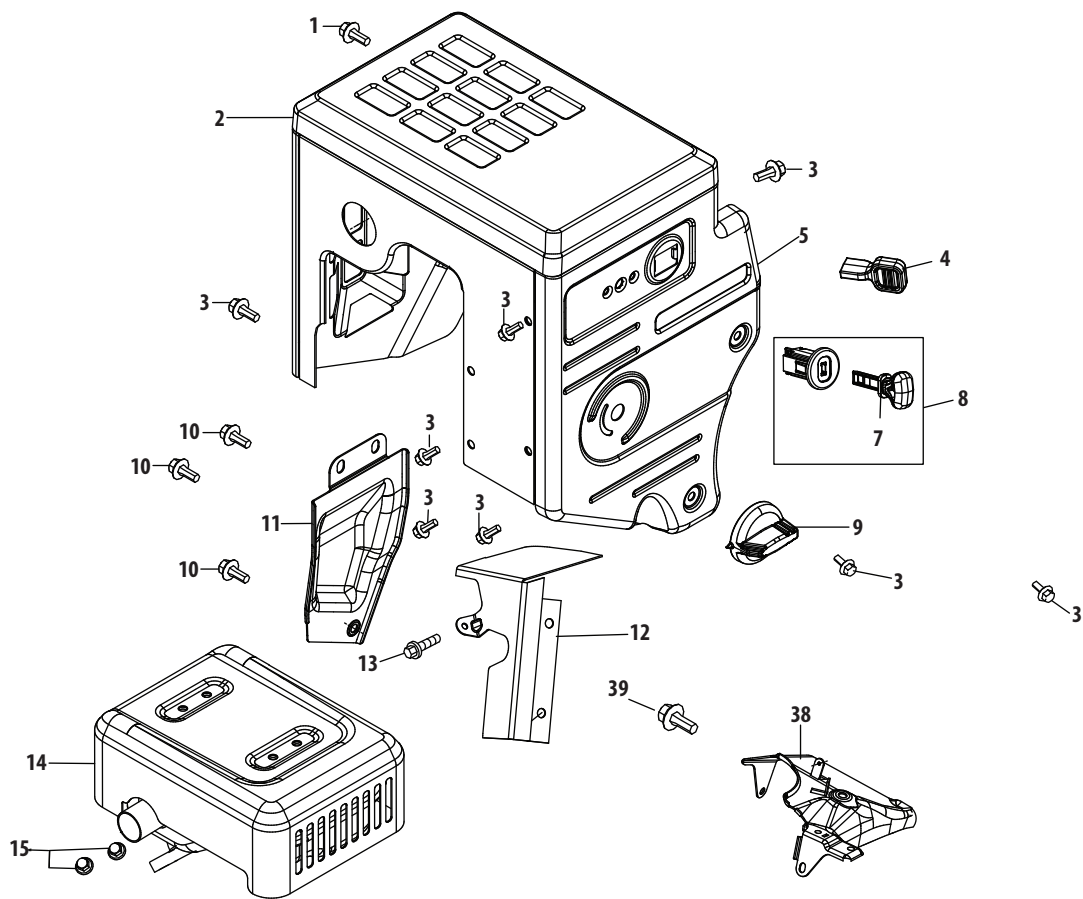
136 - Carburetor Kit - Huayi



Ref.	Part Number	Description
25	710-04939	Stud M6×117
26	710-04910	Stud M6×105
27	951-11567	Carburetor Insulator Gasket
28	951-11896	Carburetor Insulator
29	951-11569A	Carburetor Gasket
30	951-10639A	Primer Assembly
30	951-11824	Primer Bulb
31	951-14026A	Carburetor Assembly: - Huayi
31	951-14027A	Carburetor Assembly: - Deni
32	951-11897	Carburetor Gasket Plate
33	951-11112	Choke Control Bracket
135	951-14154	Carburetor Kit - Deni (Incl. h,n,o,p,q,r,s,t,v,x)
136	951-12788A	Carburetor Kit - Huayi (Incl. h,n,o,p,q,r,s,t,v,x)
a	n/a	Choke Shaft
b	n/a	Choke Plate
c	n/a	Throttle Shaft
d	n/a	Throttle Plate
e	710-05469	Screw M3×6
f	736-04638	Lock Washer

Ref.	Part Number	Description
g	n/a	Gasket, Throttle Plate
h	n/a	Idle Jet Assembly (0.45)
i	n/a	Idle Speed Adjusting Screw
j	n/a	Mixture Screw
k	951-11699	Primer Hose
l	951-11906	Hose Clamp
m	n/a	Carburetor Body
n	n/a	Float Pin
o	n/a	Emulsion Tube (P19-010)
p	951-12875	Needle Valve - Huayi
p	751-14049	Needle Valve - Deni
q	n/a	Main Jet (#74)
r	n/a	Needle Valve Spring
s	n/a	Float
t	951-11589	Fuel Bowl O-Ring
u	n/a	Fuel Bowl
v	951-11348	Fuel Bowl Mounting Bolt Gasket
w	710-04938	Fuel Bowl Mounting Bolt
x	951-11349	Fuel Drain Bolt Gasket
y	710-04945	Fuel Drain Bolt

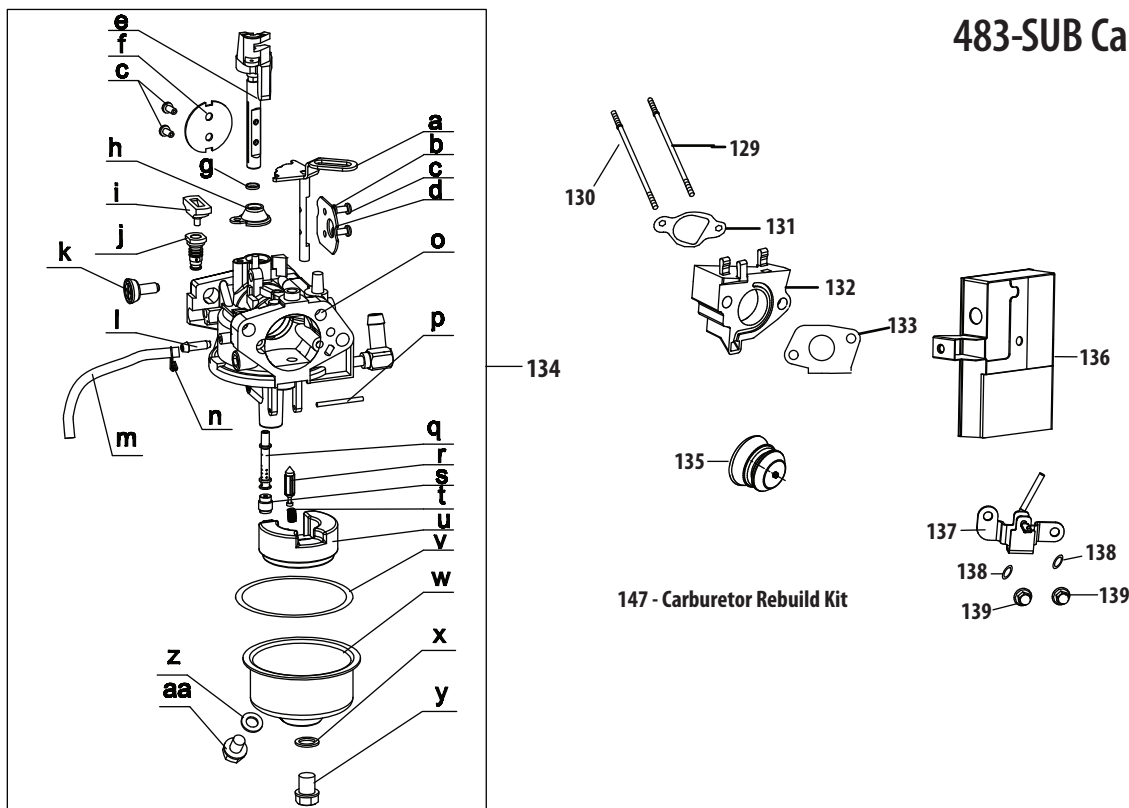
483-SUB Muffler & Controls



Ref.	Part Number	Description
1	710-04915	Bolt M6×12
2	951-11339	Muffler Shield
3	710-04915	Bolt M6×12
4	951-10757	Throttle Control Knob
5	951-11595	Control Panel
7	731-05632	Key
8	951-10637	Key Switch Assembly
9	951-11302	Choke Knob

Ref.	Part Number	Description
10	710-04914	Bolt M6×10
11	951-11181	Exhaust Pipe Shield
12	951-11321	Carburetor Heat Shield
13	710-04968	Bolt M6×16
14	951-11338	Muffler Assembly
15	712-05015	Nut, M8
38	951-11311	Throttle Control Assembly
39	710-04915	Bolt M6×12

483-SUB Carburetor

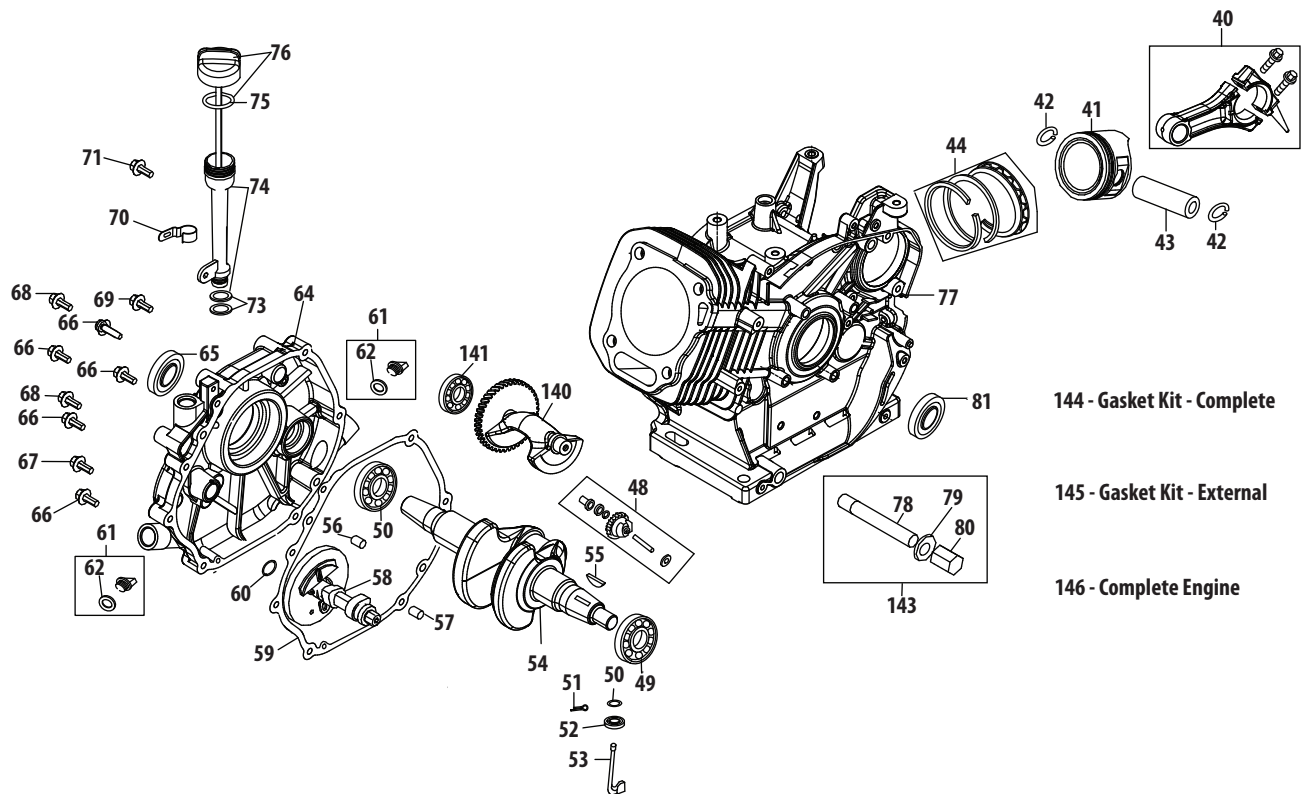


147 - Carburetor Rebuild Kit

Ref.	Part Number	Description
129	710-05392	Stud M6-8×100
130	710-05056	Stud M6-8×118
131	951-11315	Carburetor Intake Gasket
132	951-11316	Carburetor Insulator
133	951-11223	Carburetor Gasket
134	951-14023A	Carburetor Assembly
135	951-10639A	Primer Assembly
135	951-11824	Primer Bulb
136	951-11304	Heater Box
137	951-11192	Choke Assembly
138	736-04477	Lock Washer
139	712-05015	Nut M6
147	951-12760A	Carburetor Rebuild Kit (Inc.i,j,p,q,r,s,t,u,v,x,z)
a	n/a	Choke Shaft
b	736-04638	Choke Control Lever Washer
c	710-05469	Fuel Shutoff Lever Screw
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	Primer Hose Clamp
o	n/a	Carburetor Body
p	n/a	Float Pin
q	n/a	Emulsion Tube
r	n/a	Nickel Plated Brass 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

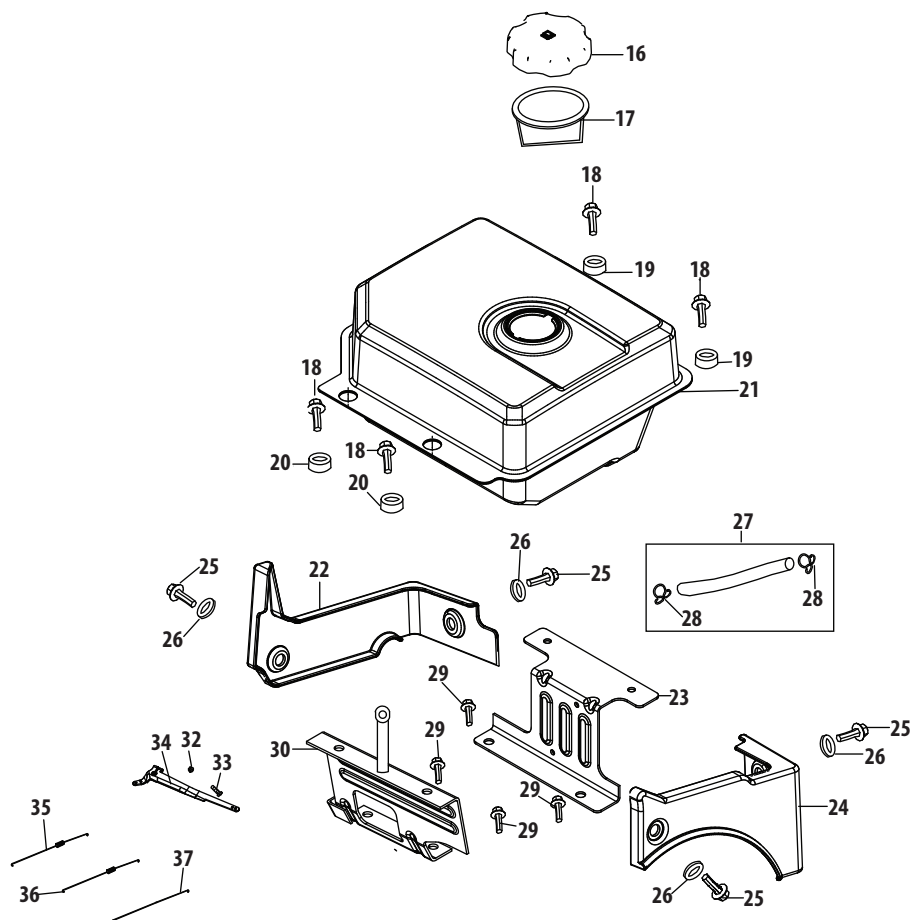
483-SUB Crankcase



Ref.	Part Number	Description
40	951-11951	Connecting Rod Assembly
41	951-11952	Piston
42	951-11953	Piston Pin Snap Ring
43	951-11954	Piston Pin
44	951-12579	Piston Ring Set
48	951-11956	Governor Gear/Shaft Assembly
49	951-11373	Radial Ball Bearing
50	736-04453	Flat Washer
51	714-04077	Governor Shaft Clip
52	951-11958	Governor Seal
53	951-11365	Governor Arm Shaft
54	951-11342	Crankshaft Kit (Inc.49,54,55,65,81)
55	951-10307	Woodruff Key
56	715-04102	Dowel Pin 9 X 12
57	715-04092	Dowel Pin 7 X 14
58	951-11959	Camshaft Assembly
59	951-11376	Crankcase Cover Gasket
60	736-04545	Washer
61	951-11283	Oil Fill Plug Assembly
62	951-11577	O-Ring
64	951-14220	Crankcase Cover
	951-11340	Crankcase Cover Kit (Inc.49,59,60,64-68)
65	951-11375	Oil Seal
66	710-06061	Bolt M8×38
67	710-06062	Bolt M8×45

Ref.	Part Number	Description
68	710-06063	Bolt M8×35
69	710-04968	Bolt M6×16
70	951-11320	Oil Tube Support Bracket
71	710-05349	Bolt M6×8
73	951-11381	Oil Fill Tube O-Ring
74	951-12073	Oil Fill Tube Assembly
75	951-11904	Dipstick O-Ring
76	951-11971A	Dipstick Assembly
77	951-11341A	Crankcase Kit (Inc.49,52,77,81)
	951-11328B	Short Block Assembly (Inc.40-44,48-68,77-81, 102,105,106,108,110,111, 125,131,132,140,141)
78	951-11350	Oil Drain Pipe
79	736-04440	Drain Pipe Washer 10X16X1.5
80	710-04906	Oil Drain Plug Bolt
81	951-11499	Oil Seal
140	951-11968	Balance Gear Assembly
141	951-11969	Bearing
143	951-10641	Oil Drain Asm
144	951-11330A	Gasket Kit - Complete (Inc.52,59,65,79,81,106, 108,125,131-133)
145	951-11331	Gasket Kit - External (Inc.79,108,125,131-133)
146	952Z483-SUB	Complete Engine

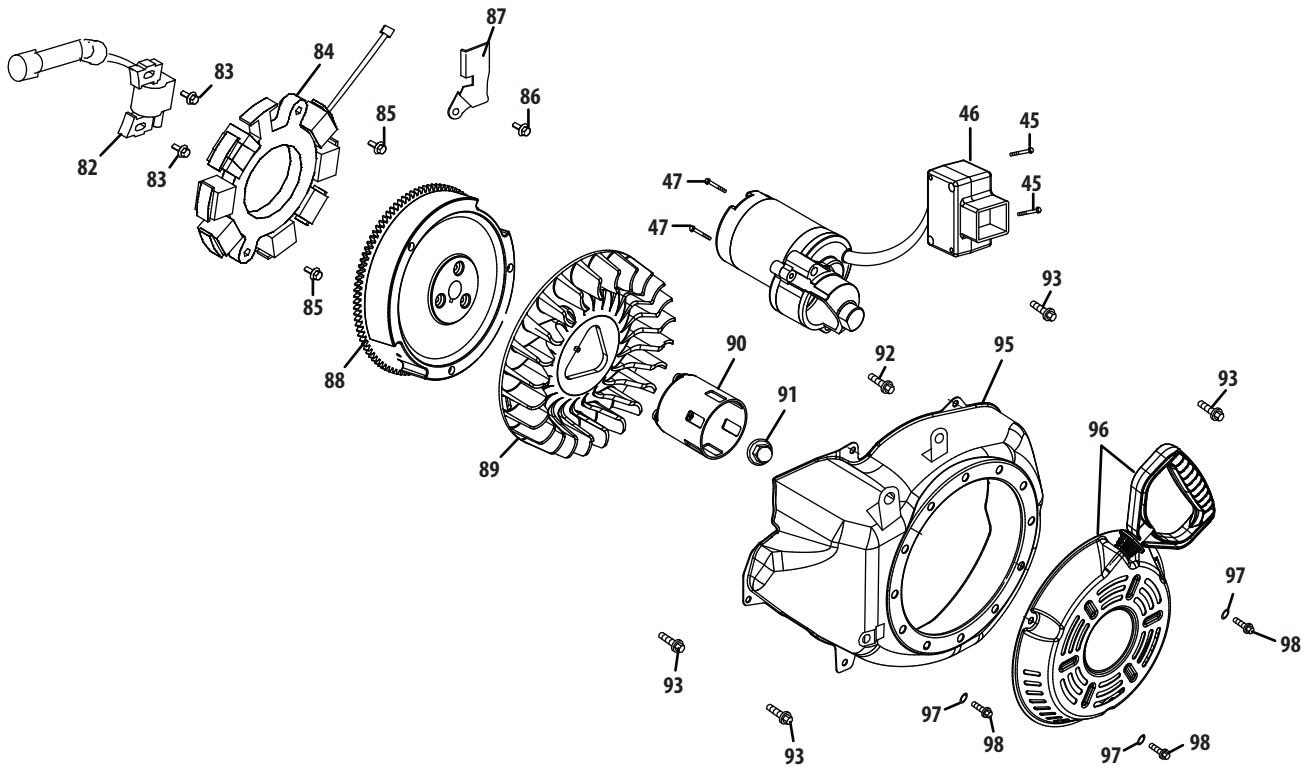
483-SUB Fuel Tank & Mounting



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, Slot
20	750-05313	Bushing, Rnd
21	951-11201	Fuel Tank Assembly
22	951-11319	Fuel Tank Shroud
23	951-11318	Fuel Tank Mounting Bracket
24	951-11351	Engine Shroud
25	710-04968	Bolt M6×16
26	736-04452	Bush

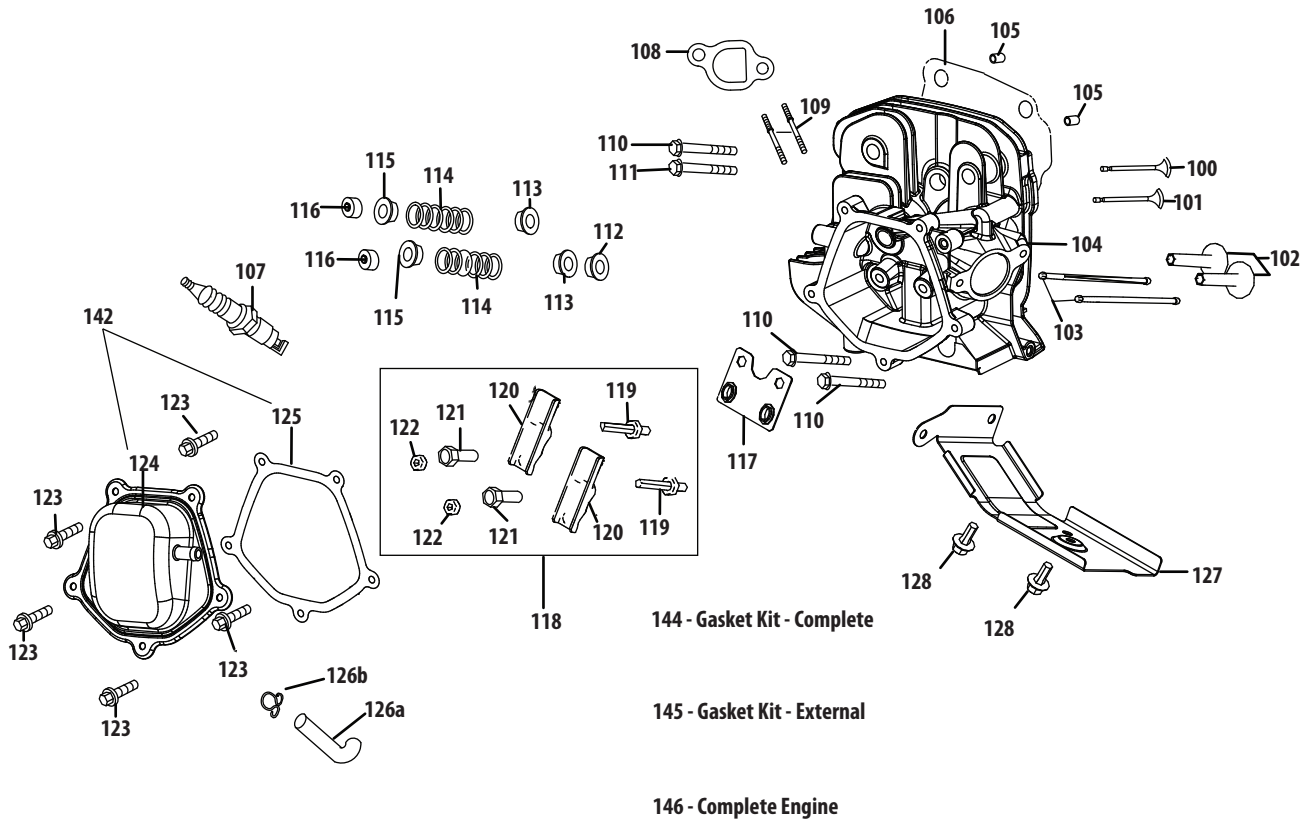
Ref.	Part Number	Description
27	951-11336	Fuel Line Kit
28	951-11700	Fuel Hose Clamp
29	710-04921	Bolt M8×14
30	951-11182	Fuel Tank Mounting Bracket
32	712-04212	Flange Nut M6
33	710-04908	Governor Arm Bolt M6X21
34	951-11307	Governor Arm
35	951-11306	Governor Spring
36	951-11203	Throttle Return Spring
37	951-11309	Governor Rod

483-SUB Starter Assembly & Blower Housing



Ref.	Part Number	Description
45	710-04965	Screw M4 X 55
46	951-11196	Electric Starter
47	710-04967	Bolt M8x55
82	951-11305	Ignition Coil Assembly
83	710-05350	Ignition Coil Bolt
84	951-12553	Alternator Assembly
85	710-04969	Bolt M6x30
86	710-04966	Bolt M6x8
87	951-11186	Alternator Wire Clamp Bracket
88	951-12556	Flywheel

483-SUB Cylinder Head



483-SUB Cylinder Head

Ref.	Part Number	Description	Ref.	Part Number	Description
100	951-11337	Valve Kit	116	951-12081	Exhaust Lash Cap
101	951-11337	Valve Kit	117	951-11965	Push Rod Guide
102	951-11962	Tappet	118	951-11981	Rocker Arm Assembly
103	951-11335	Push Rod Kit	119	710-04962	Bolt, Pivot
104	951-12555	Cylinder Head Kit (Inc.106,110-112,125)	120	951-11966	Rocker Arm
	951-11329B	Cylinder Head Assembly (Inc.100,101,104,106,108-112, 114-122,125,129-133)	121	751-11123	Adjusting Nut ,Valve
105	715-04097	Dowel Pin	122	751-11124	Pivot Locking Nut
106	951-11963	Cylinder Head Gasket	123	710-05054	Valve Cover Bolt
107	951-10292	Spark Plug/F6Rtc	124	951-11220	Valve Cover
108	951-11212	Muffler Gasket	125	951-11967	Valve Cover Gasket
109	710-04964	Exhaust Stud M8×48.5	126a	731-07059	Breather Hose
109	951-11207	Muffler Stud Assembly	126b	726-04101	Breather Hose Clamp
110	710-06064	Bolt M10×1.25×87	127	951-11317	Cylinder Baffle
111	710-06065	Bolt M10×1.25×65	128	710-04915	Bolt M6×12
112	951-11964	Intake Valve Seal	142	951-11333	Valve Cover Kit
113	951-12077	Intake Valve Spring Retainer	144	951-11330A	Gasket Kit - Complete (Inc.52,59,65,79,81,106, 108,125,131-133)
114	951-12078	Valve Spring	145	951-11331	Gasket Kit - External (Inc.79,108,125,131-133)
115	951-12080	Exhaust Valve Spring Retainer	146	952Z483-SUB	Complete Engine

Notes

[illegible]



To order replacement parts or locate your nearest service dealer call a Customer Support at (800) 800-7310.
or visit www.mtdproducts.com to find the nearest authorized dealer in your area.

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019
