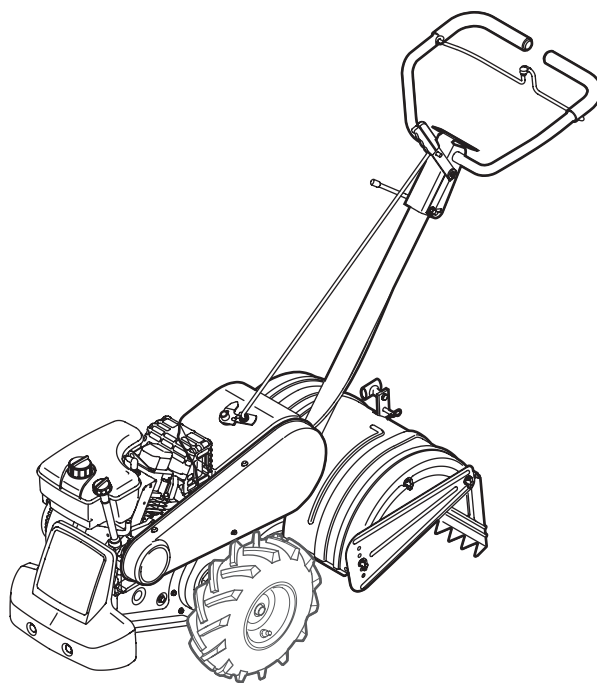
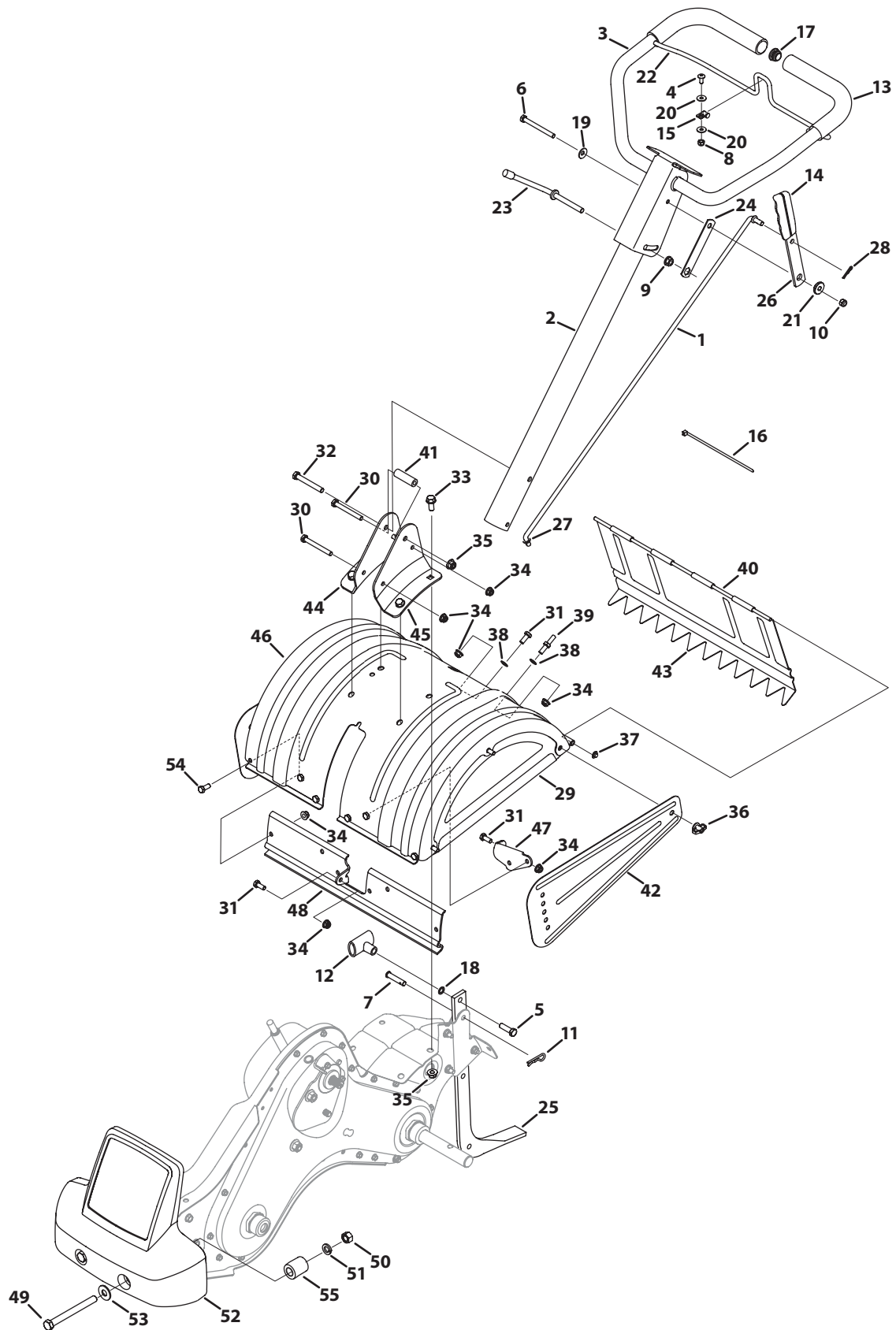

ILLUSTRATED PARTS MANUAL



Rear Tine Tiller — 450 Series

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

450 Series Handle & Tine Shield

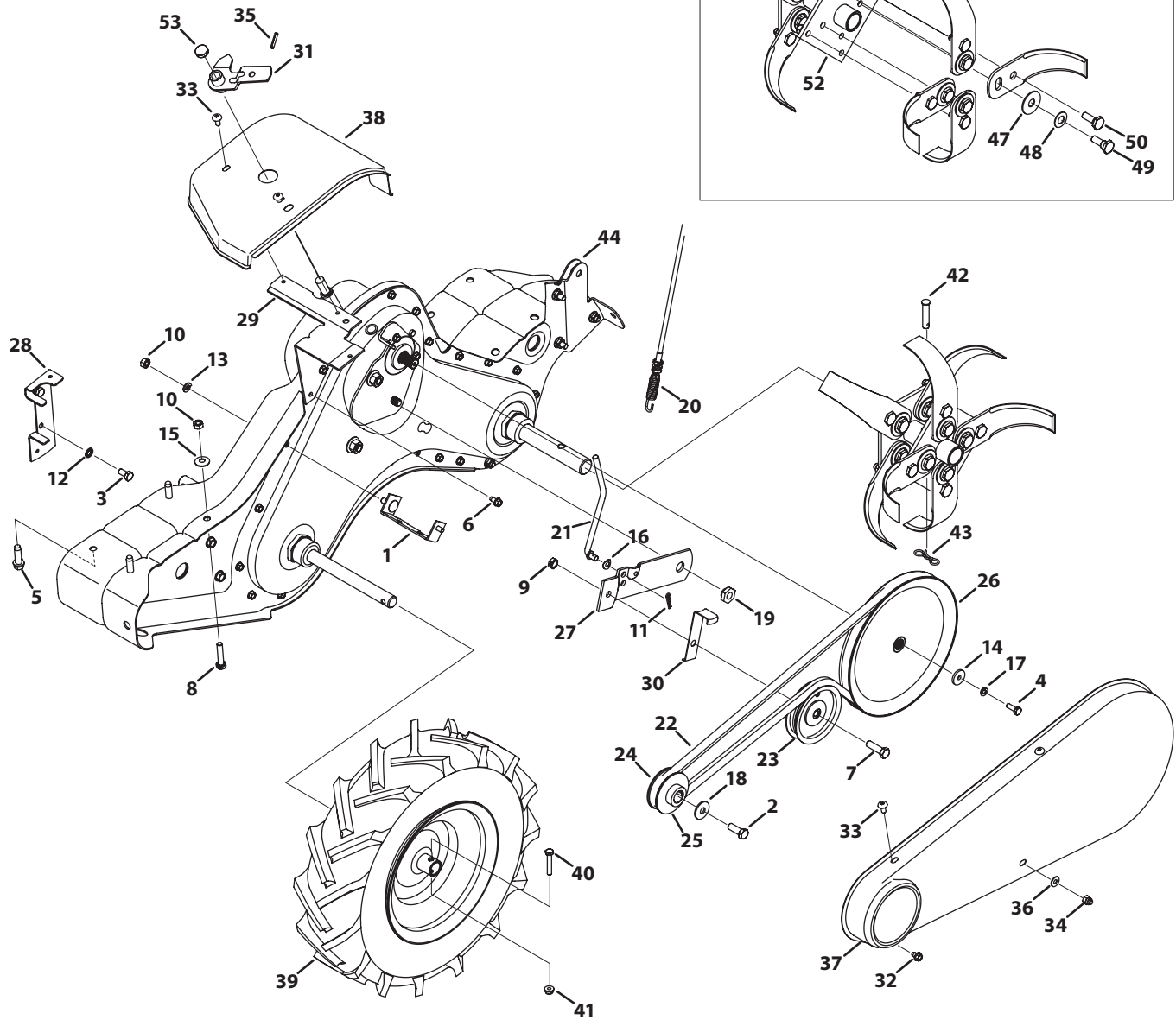


450 Series Handle & Tine Shield

Ref.	Part Number	Description
1	747-1152	Shaft Rod
2	649-0034-0691	Lower Handle Tube Assembly-Black
	649-0034-0638	Lower Handle Tube Assembly-Red
3	649-0041-0691	Upper Handle Assembly-Black
	649-0041-0638	Upper Handle Assembly-Red
4	710-0946	Screw, 1/4-20 x 0.625
5	710-3005	Hex Head Screw, 3/8-16:1.25
6	710-3056	Hex Head Screw, 5/16-18 x 3.25
7	911-0415	Clevis Pin, .375 X 1.75
8	712-0324	Hexlock Nut, 1/4-20
9	712-0379	Flangelock Nut, 3/8-24
10	912-0429	Hexlock Nut, 5/16-18
11	714-0147	Cotter Pin, .125 X 1.75 INTERNAL
12	720-0210A	Small Tee Knob
13	720-0278A	Foam Grip, .970 x 11.0
14	720-0313	Grip, .1875 x 1.00
15	726-0273	Battery Clamp, 5/16
16	726-0317	Cable Tie, 8.5 LG
17	735-0246A	End Plug
18	936-0117	Washer, Flat, .385 x .620 x .033
19	736-0242	Washer, Bell, .340 x .872 x .060
20	736-3090	Washer, Flat, .260 x .720 x .060
21	938-0958	Spacer, Shoulder, .50 x .190 x .360 LG
22	747-1219-0637	Clutch Bail
23	784-0190	Handle Adjustment Crank
24	784-0191	Hex Nut Retainer Bracket
25	786-0120-0637	Tiller Depth Control
26	786-0181-0691	Shaft Rod Lever-Black
	786-0181-0638	Shaft Rod Lever-Red
27	735-0127	Washer, Rubber, .33 ID x .87 OD x .125
28	914-0104	Cotter Pin, .072 x 1.12 LG
29	686-0044B-0691	End Cover Assembly-Black
	686-0044B-0638	End Cover Assembly-Red

Ref.	Part Number	Description
30	710-0176	Hex Head Screw, 5/16-18 x 2.75
31	710-3008	Hex Head Screw, 5/16-18 x .75
32	710-3022	Hex Head Screw, 3/8-16 x 2.75
33	710-04482	Hex Head Flange, 3/8-16 x .875
34	712-04063	Flangelock Nut, 5/16-18
35	712-04065	Flangelock Nut, 3/8-16
36	712-0421	Wing Nut, 5/16-18 W/ Bell Washer
37	926-0106	Speed Nut Cap, 1/4 ROD
38	736-0204	Washer, Flat, .344 x .62 x .033
39	938-0849	Screw, Hex, 5/16-18 x .75
40	747-0432	Tiller Flap Rod
41	750-0885A	Spacer, .322 x .625 x 2.00
42	786-0090A-0691	Side Shield-Black
	786-0090A-0638	Side Shield-Red
43	786-0113A-0691	Rear Tine Shield-Black
	786-0113A-0638	Rear Tine Shield-Red
44	786-0176-0691	RH Handle Mount Bracket-Black
	786-0176-0638	RH Handle Mount Bracket-Red
45	786-0177-0691	LH Handle Mount Bracket-Black
	786-0177-0638	LH Handle Mount Bracket-Red
46	786-0178A-0691	Tine Shield-Black
	786-0178A-0638	Tine Shield-Red
47	786-0179-0637	FRT Tine Shield Bracket
48	786-0180-0637	FRT Tine Shield Spacer Bracket
49	710-0382	Hex Head Screw, 1/2-13 x 5.00
	710-0506	Hex Head Screw, 1/2-13 x 5.50
50	912-0206	Hex Nut, 1/2-13
	712-3066	Hex Nut, 1/2-20
51	936-0921	Washer, Lock, 1/2
52	731-1595	Counterweight
53	936-0179	Washer, Flat, 1/2 x 1.25 x .100
54	710-0376	Hex Head Screw, 5/16-18 x 1.00
55	750-0194	Hub, .636 ID x 1.00 OD x .94

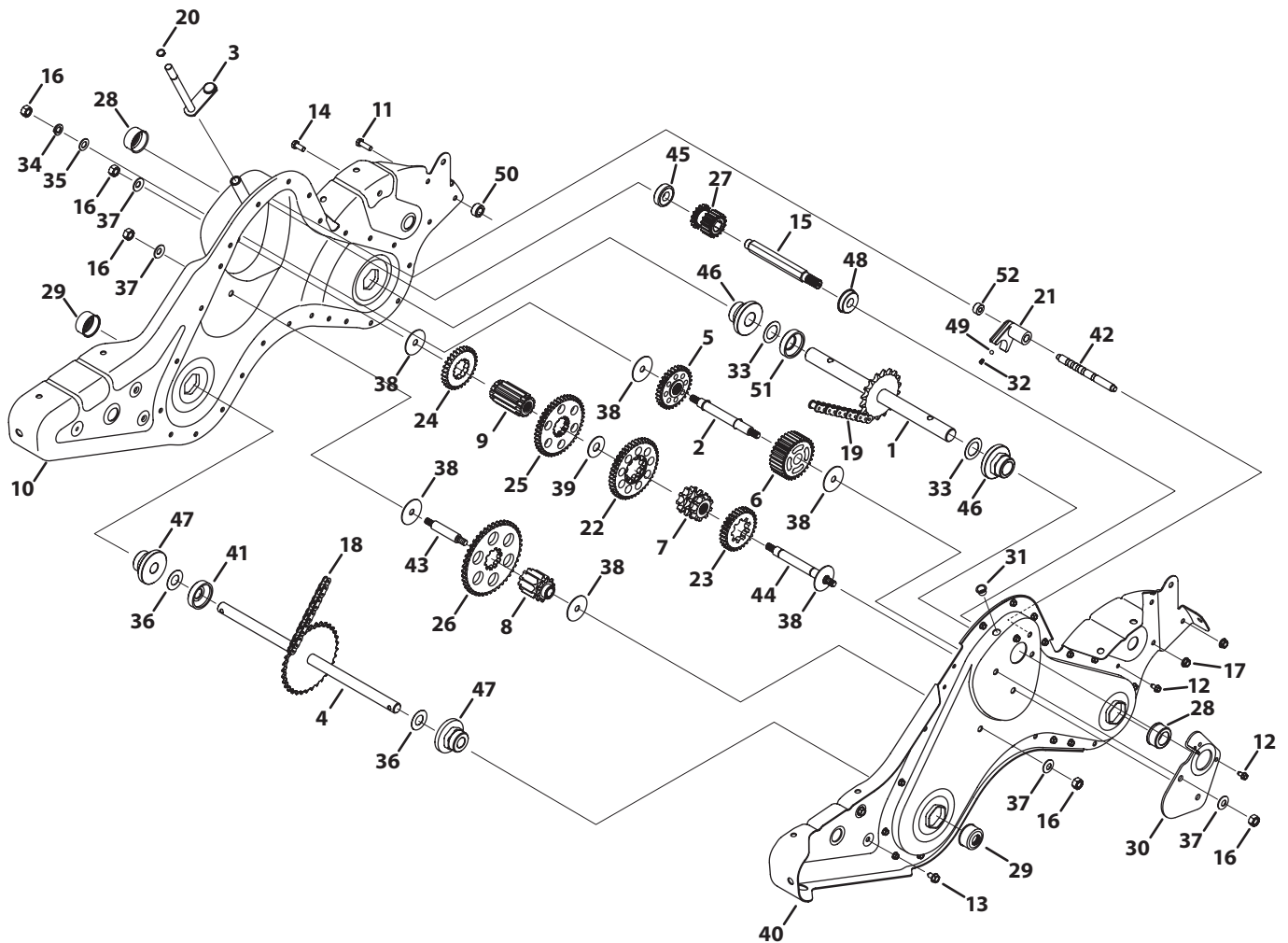
450 Series Drive System



Ref.	Part Number	Description
1	686-0111-0637	Belt Cover Bracket Assembly
2	710-1039	Hex Head Screw, 3/8-24 x 1.00
3	710-0237	Hex Head Screw, 5/16-24 x .625
4	710-0412	Hex Head Screw, 1/4-28 x .75
5	710-0502A	Screw, 3/8-16 x 1.250
6	710-0599	Screw, 1/4-20 x 0.500
7	710-3005	Hex Head Screw, 3/8-16 x 1.25
8	710-0805	Hex Head Screw, 5/16-18 x 1.50
9	712-0266A	Jamlock Nut, 3/8-16
10	912-3010	Hex Nut, 5/16-18
11	914-0104	Cotter Pin, .072 DIA. x 1.13 LG
12	936-0104	Washer, Lock, 5/16
13	936-0119	Washer, Lock, 5/16
14	936-0176	Washer, Flat, .265 x .938 x .120
15	736-0242	Washer, Bell, .340 x .872 x .060
16	936-0271	Washer, Spring, .317 x .625 x .020
17	936-0329	Washer, Lock, 1/4
18	936-0452	Washer, Bell, .396 x 1.140 x .095
19	938-0876	Shoulder Nut, 7/16-20
20	746-1117	Clutch Cable
21	747-1159	Idler Pulley Rod
22	954-0434	Belt, 4L x 58.16 LG
23	756-0405	Flat Idler Pulley w/ Flanges, 3.75 O.D.
24	756-0971	Engine Pulley, Inner Half
25	756-0972	Engine Pulley, Outer Half
26	756-1162	Input Pulley, 4L x 8.594
27	786-0064A	Idler Pulley Bracket
28	786-0185A-0637	Belt Keeper Bracket, B&S 6.5 HP
29	786-0187-0637	Shaft Cover Bracket

Ref.	Part Number	Description
30	786-0193-0637	Idler Belt Keeper
31	686-0109A	Shaft Crank Assembly
32	710-0653	Screw, 1/4-20:0.375
33	710-1017	Screw, 1/4-14:0.625
34	712-0392	Lock Nut, Cap, 1/4-28
35	915-0120	Spiral Pin, 3/16 x 1.00
36	936-3020	Washer, Flat, .271x .630 x .065
37	784-0158A-0662	Belt Cover - Gray
	784-0158A-0691	Belt Cover - Black Jack
	784-0158A-0638	Belt Cover-Red
38	784-0208D-0638	Shaft Cover-Red
	784-0208D-0691	Shaft Cover-Black
39	934-04231	Wheel, 16 x 4.6 x 8
	934-04233	Wheel, 14 x 4.5 x 6
40	710-0606	Hex Head Screw, 1/4-20 x 1.50
41	712-04064	Flangelock Nut, 1/4-20
42	911-0415	Clevis Pin, .375 x 1.75
43	714-04043	Cotter Pin, Bow-Tie
44	986-04074A	Complete Gear Case Assembly
45	712-3054	Hexlock Nut, 3/8-24
46	936-0169	Washer, Lock, 3/8
47	936-0208	Washer, Flat, .51 x 1.5 x 0.07
48	936-0253	Washer, Bell, .525 x 1.00 x .050
49	938-0688	Screw, Shoulder, 3/8-24 x 1/2 x .325
50	938-0689	Screw, Shoulder, 3/8-24 x 1/2 x .180
51	742-0305A-0637	Articulating Tine
52	984-0160-0637	Tine Adaptor Assembly
53	731-07556	Cap

450 Series Transmission Assembly

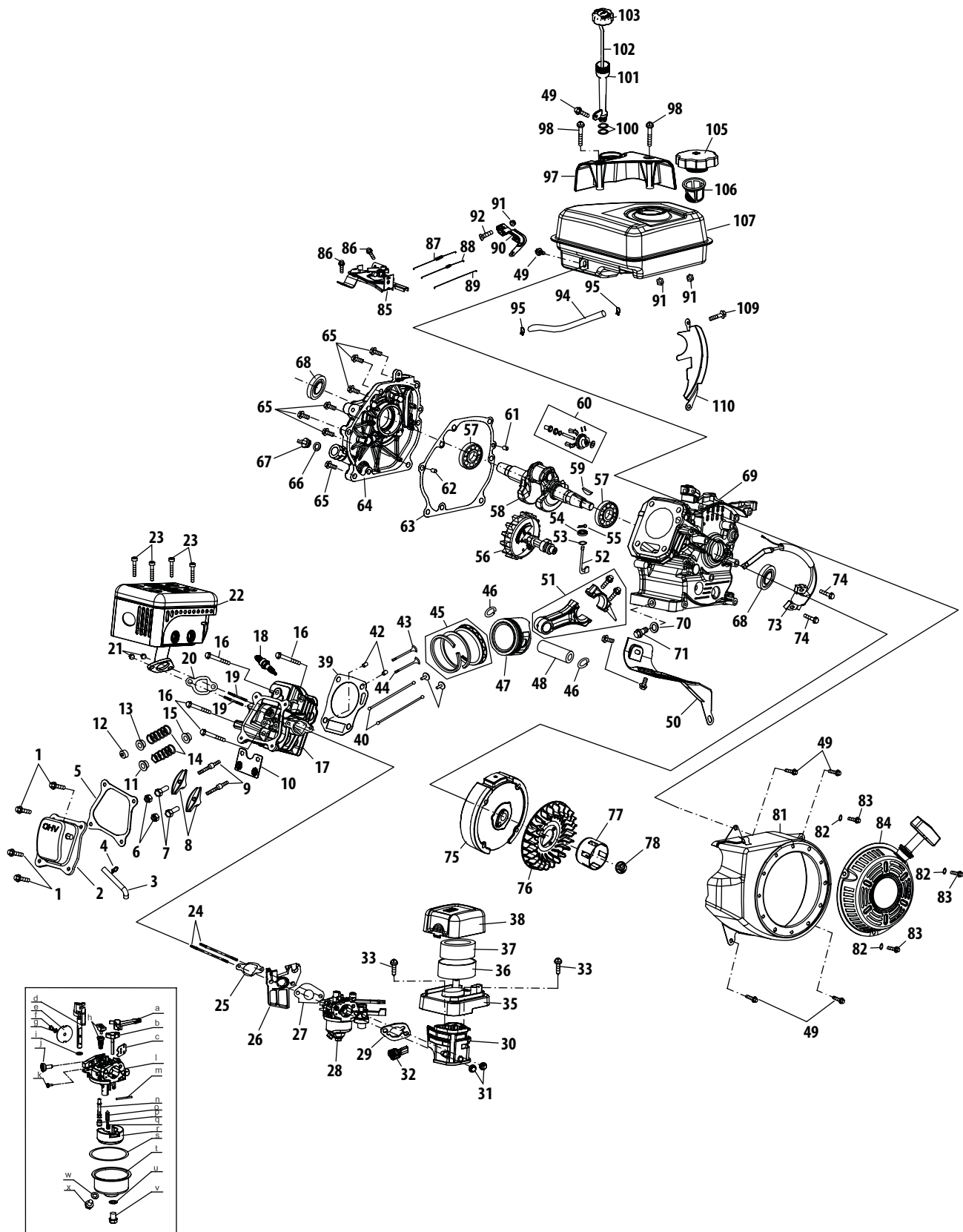


450 Series Transmission Assembly

Ref.	Part Number	Description
1	611-0021	Shaft Assembly, Tine, 18T
2	611-0128	Shaft Assembly, Jack
3	611-0129	Shaft Assembly, Shift Input
4	611-04074A	Shaft Assembly, Wheel, 33T
5	617-0058	Gear Assembly, 30T Reverse Idler
6	617-0059	Gear Assembly, 30T Tine Idler
7	617-0060	Sprocket Assembly, 9T Tine Input
8	617-0061	Sprocket Assembly, 10T Whl Input
9	617-0062	Gear Assembly, 11T
10	686-0108A-0637	RH Chain Case Housing Assembly
11	710-0376	Hex Head Screw, 5/16-18 x 1.00
12	710-0599	Screw, 1/4-20 x 0.500
13	710-0604A	Screw, :5/16-18 x 0.625
14	710-3008	Hex Head Screw, 5/16-18 x .75
15	711-1349	Input Shaft, .75
16	712-0378	Nut, Hex, 7/16-20
17	712-3004A	Nut, Flangelock, 5/16-18
18	913-0367	Endless Chain, #420 x 50 Links
19	913-0484	Endless Chain, #50 x 54 Links
20	716-0865	Snap Ring, .500
21	717-0853	Clutch Collar
22	717-1582	Gear Spur, 44T
23	717-1583	Gear Spur, 30T
24	717-1584	Gear Spur, 30T
25	717-1585	Gear Spur, 44T
26	717-1587	Gear Spur, 44T

Ref.	Part Number	Description
27	717-1594	Gear Spur, 16T
28	921-0378	Shaft Seal, 1.0
29	721-0379	Shaft Seal, .75
30	786-0238	Positioner Gear Bracket
31	726-0277	Tapered Cap Plug
32	932-0496	Compression Spring, .230 OD
33	936-0163	Washer, Flat, 1.03 x 1.62 x .03
34	936-0171	Washer, Lock, 7/16
35	936-0226	Washer, Flat,.474 x .879 x .064
36	936-0351	Washer, Flat, .760 ID x 1.50 OD
37	736-0407	Washer, Bell,.45 x 1.00 x .062
38	736-0518	Washer, Thrust, .445 x 1.92 x .060
39	736-3088	Washer, Flat,1.595 x .635 x .062
40	686-04129-0637	LH Chain Case Housing
41	950-0671	Spacer, .75 x 2.0 x .50
42	738-0645	Shaft Detent, .5 DIA
43	738-0648	Shaft, Jack, .625 x 2.385
44	738-1013	Shaft, Jack, .6250 x 5.0050
45	941-0600	Ball Bearing, 17 x 40 x 12:6203
46	941-0420	Flange Bearing, 1.0 x 2.5 x 1.38
47	741-0421	Flange Bearing, .75 x 2.5 x 1.38
48	941-0563	Ball Bearing, 17 x 40 x 12:6203
49	741-0862	Ball, Detent, .250
50	750-0258	Spacer, .315 x .750 x .375 LG
51	950-0570	Spacer, 1.0 ID x 2.0 OD x.5 LG
52	750-0664	Spacer, .505 ID x .88 OD x .440

Engine Model - 170-V0A



Ref No.	Part No.	Description
1	710-04917	Bolt
2	951-11054A	Valve Cover
3	731-07059	Breather Hose
4	726-04101	Breather Hose Clamp
5	951-11565	Valve Cover Gasket
6	751-11124	Nut, Pivot Locking
7	751-11123	Valve Adjusting Nut
9	710-04902	Rocker Arm Stud
16	710-05100	Cylinder Head Bolt
18	951-10292	Spark Plug
19	710-04911	Muffler Stud
21	712-04214	Nut
22	951-11590	Muffler Assembly
23	710-05002	Bolt
24	710-05101	Carburetor Stud
25	751-11567	Carburetor Insulator Gasket
26	951-11568	Carburetor Insulator
27	951-11569	Carburetor Gasket
29	951-11571	Carburetor Gasket Plate
30	951-10806	Air Cleaner Housing
31	712-04213	Nut
32	951-11067	Throttle Control Knob
33	710-05102	Self-Tapping Bolt
39	951-11572	Cylinder Head Gasket
42	715-04090	Dowel Pin
45	951-11253	Piston Ring Set
49	710-04915	Bolt
50	951-11113	Air Shield
51	951-11573	Connecting Rod Assembly
52	951-11356	Governor Arm Shaft
53	736-04461	Governor Shaft O-Ring
54	951-11574	Governor Seal
55	714-04078	Cotter Pin
56	951-11575	Camshaft Assembly
57	951-11369	Radial Ball Bearing
59	951-10307	Flywheel Key
60	951-11576	Governor Assembly
61	715-04092	Dowel Pin, 7 x 14
62	715-04089	Dowel Pin, 9 x 14
63	951-11371	Crankcase Cover Gasket

Ref No.	Part No.	Description
65	710-04932	Bolt
66	951-11577	O-Ring
68	951-11578	Oil Seal
70	736-04440	Oil Drain Plug Washer
71	710-04906	Oil Drain Plug
73	951-10792	Ignition Coil
74	710-04919	Bolt
75	951-10805	Flywheel
76	951-10934	Cooling Fan
77	951-10911	Starter Cup
78	712-04209	Nut
81	951-11583	Blower Housing
82	736-04455	Washer
83	710-04914	Bolt
84	951-10790	Recoil Starter Assembly
85	951-11584	Primer Bracket
86	710-05103	Bolt
87	951-11585	Governor Spring
88	951-10664	Throttle Linkage Spring
89	951-10665	Throttle Linkage
90	951-11106	Governor Arm
91	712-04212	Nut
92	710-04908	Governor Arm Bolt
97	951-10662	Engine/Dipstick Cover
98	710-04905	Bolt
100	951-11380	O-Ring
101	951-10656	Dipstick Tube
106	951-10652	Fuel Filter
107	951-10796	Fuel Tank
109	710-04918	Bolt
110	951-11109	Blower Housing Shield
a	951-11177	Choke Control Lever
s	951-11589	Fuel Bowl Gasket
u	710-04904	Fuel Bowl Bolt Gasket
v	710-04945	Fuel Bowl Mounting Bolt
w	951-11349	Fuel Drain Plug Gasket
x	710-04903	Fuel Drain Bolt
—	951-10829	Spark Arrestor (Not Shown)
—	951-10651	Fuel Tank Nipple (Not Shown)

NOTE: Illustrated parts without a numeric call-out are not servicable components.

Engine Model - 170-VOA

Ref No.	Part No.	Description	Ref No.	Part No.	Description
—	951-10798A	Short Block	—	951-10799	Cylinder Head Assembly
5	951-11565	Valve Cover Gasket	5	951-11565	Valve Cover Gasket
20	—	Exhaust Pipe Gasket	7	751-11123	Valve Adjusting Nut
25	751-11567	Carburetor Insulator Gasket	8	—	Rocker Arm
26	951-11568	Carburetor Insulator	9	710-04902	Rocker Arm Stud
29	951-11571	Carburetor Gasket Plate	10	—	Push Rod Guide
39	951-11572	Cylinder Head Gasket	11	—	Valve Spring Retainer-Intake
41	—	Valve Lifter	12	—	Exhaust Valve Adjustor
45	951-11253	Piston Ring Set	13	—	Valve Spring Retainer-Exhaust
46	—	Piston Pin Clip	14	—	Valve Spring
47	—	Piston	17	—	Cylinder Head
48	—	Piston Pin	20	—	Exhaust Pipe Gasket
51	951-11573	Connecting Rod Assembly	25	751-11567	Carburetor Insulator Gasket
52	951-11356	Governor Arm Shaft	26	951-11568	Carburetor Insulator
53	736-04461	Governor Shaft O-Ring	39	951-11572	Cylinder Head Gasket
54	951-11574	Governor Seal	42	715-04090	Dowel Pin
55	714-04078	Cotter Pin	43	—	Exhaust Valve
56	951-11575	Camshaft Assembly	44	—	Intake Valve
57	951-11369	Radial Ball Bearing	—	951-11586	Crankcase Cover Kit
58	—	Crankshaft Assembly	57	951-11369	Radial Ball Bearing
60	951-11576	Governor Assembly	63	951-11371	Crankcase Cover Gasket
61	715-04092	Dowel Pin, 7 x 14	64	—	Crankcase Cover
62	715-04089	Dowel Pin, 9 x 14	65	710-04932	Bolt
63	951-11371	Crankcase Cover Gasket	68	951-11578	Oil Seal
64	—	Crankcase Cover	—	951-11588	Crankcase Kit
65	710-04932	Bolt	52	951-11356	Governor Arm Shaft
66	951-11577	O-Ring	53	736-04461	Governor Shaft O-Ring
67	—	Oil Filler Plug	54	951-11574	Governor Seal
68	951-11578	Oil Seal	55	714-04078	Cotter Pin
69	—	Crankcase Complete	57	951-11369	Radial Ball Bearing
70	736-04440	Oil Drain Plug Washer	68	951-11578	Oil Seal
71	710-04906	Oil Drain Plug	69	—	Crankcase Complete
—	951-11587	Crankshaft Kit	—	951-10801A	Gasket Kit - External
57	951-11369	Radial Ball Bearing	20	—	Exhaust Pipe Gasket
58	—	Crankshaft Assembly	25	751-11567	Carburetor Insulator Gasket
59	951-10307	Flywheel Key	27	951-11569	Carburetor Gasket
63	951-11371	Crankcase Cover Gasket	66	951-11577	O-Ring
68	951-11578	Oil Seal	70	736-04440	Oil Drain Plug Washer
—	951-11063A	Valve Cover Gasket Kit	—	951-10818	Air Cleaner Housing Assembly
2	951-11054A	Valve Cover	35	—	Lower Housing
5	951-11565	Valve Cover Gasket	38	—	Upper Housing

NOTE: Illustrated parts without a numeric call-out are not servicable components.

Ref No.	Part No.	Description
28	951-10797	Carburetor Assembly
a	951-11177	Choke Control Lever
b	—	Choke Shaft
c	—	Choke Plate
d	—	Throttle Shaft
e	—	Throttle Plate
f	—	Screw
g	—	Lock Washer
h	—	Idle Jet Assembly
i	—	Throttle Plate Gasket
j	—	Idle Speed Adjusting Screw
k	—	Mixture Screw
l	—	Carburetor Body
m	—	Float Pin
n	—	Main Nozzle
o	—	Needle Valve (Float)
p	—	Main Jet
q	—	Needle Valve Spring
r	—	Float
s	951-11589	Fuel Bowl Gasket
t	—	Fuel Bowl
u	710-04904	Fuel Bowl Bolt Gasket
v	710-04945	Fuel Bowl Mounting Bolt
w	951-11349	Fuel Drain Plug Gasket
x	710-04903	Fuel Drain Bolt
—	951-10800A	Carburetor Kit - Major
a	951-11177	Choke Control Lever
h	—	Idle Jet Assembly
i	—	Throttle Plate Gasket
j	—	Idle Speed Adjusting Screw
m	—	Float Pin
n	—	Main Nozzle
o	—	Needle Valve (Float)
p	—	Main Jet
q	—	Needle Valve Spring
r	—	Float
s	951-11589	Fuel Bowl Gasket
u	710-04904	Fuel Bowl Bolt Gasket
w	951-11349	Fuel Drain Plug Gasket
—	951-10648	Push Rod Kit
40	—	Push Rod

Ref No.	Part No.	Description
—	951-10647	Valve Kit
43	—	Exhaust Valve
44	—	Intake Valve
—	951-10655	Dipstick Assembly
102	—	Dipstick Gauge
103	—	Dipstick Cap
—	951-10669	Oil Fill Plug Assembly
66	951-11577	O-Ring
67	—	Oil Filler Plug
—	951-10650	Fuel Line Kit
94	—	Fuel Hose
95	—	Hose Clamp
—	951-10657	Muffler Stud Assembly
19	710-04911	Muffler Stud
—	951-10819	Cylinder Head Service Kit
5	951-11565	Valve Cover Gasket
15	—	Valve Seal
16	710-05100	Cylinder Head Bolt
39	951-11572	Cylinder Head Gasket
—	951-10794	Air Cleaner
36	—	Air Cleaner Foam Wrap
37	—	Air Cleaner Element
—	951-10802A	Gasket Kit - Complete
5	951-11565	Valve Cover Gasket
20	—	Exhaust Pipe Gasket
25	751-11567	Carburetor Insulator Gasket
26	951-11568	Carburetor Insulator
27	951-11569	Carburetor Gasket
29	951-11571	Carburetor Gasket Plate
39	951-11572	Cylinder Head Gasket
53	736-04461	Governor Shaft O-Ring
63	951-11371	Crankcase Cover Gasket
66	951-11577	O-Ring
68	951-11578	Oil Seal
70	736-04440	Oil Drain Plug Washer
105	951-10917	Fuel Cap
—	—	Gasket (Not Shown)
—	—	Gasket Retainer (Not Shown)
—	951-10826	Recoil Spring & Pulley Assembly
—	—	Starter Pulley (Not Shown)
—	—	Recoil Spring (Not Shown)

NOTE: Illustrated parts without a numeric call-out are not servicable components.