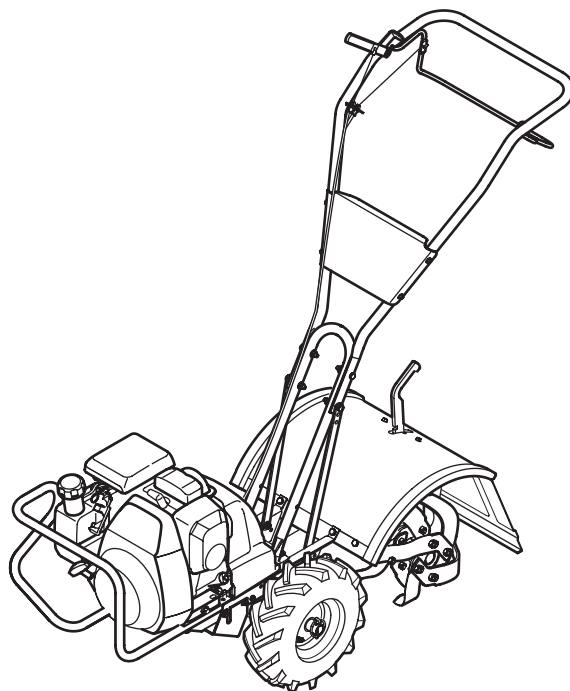




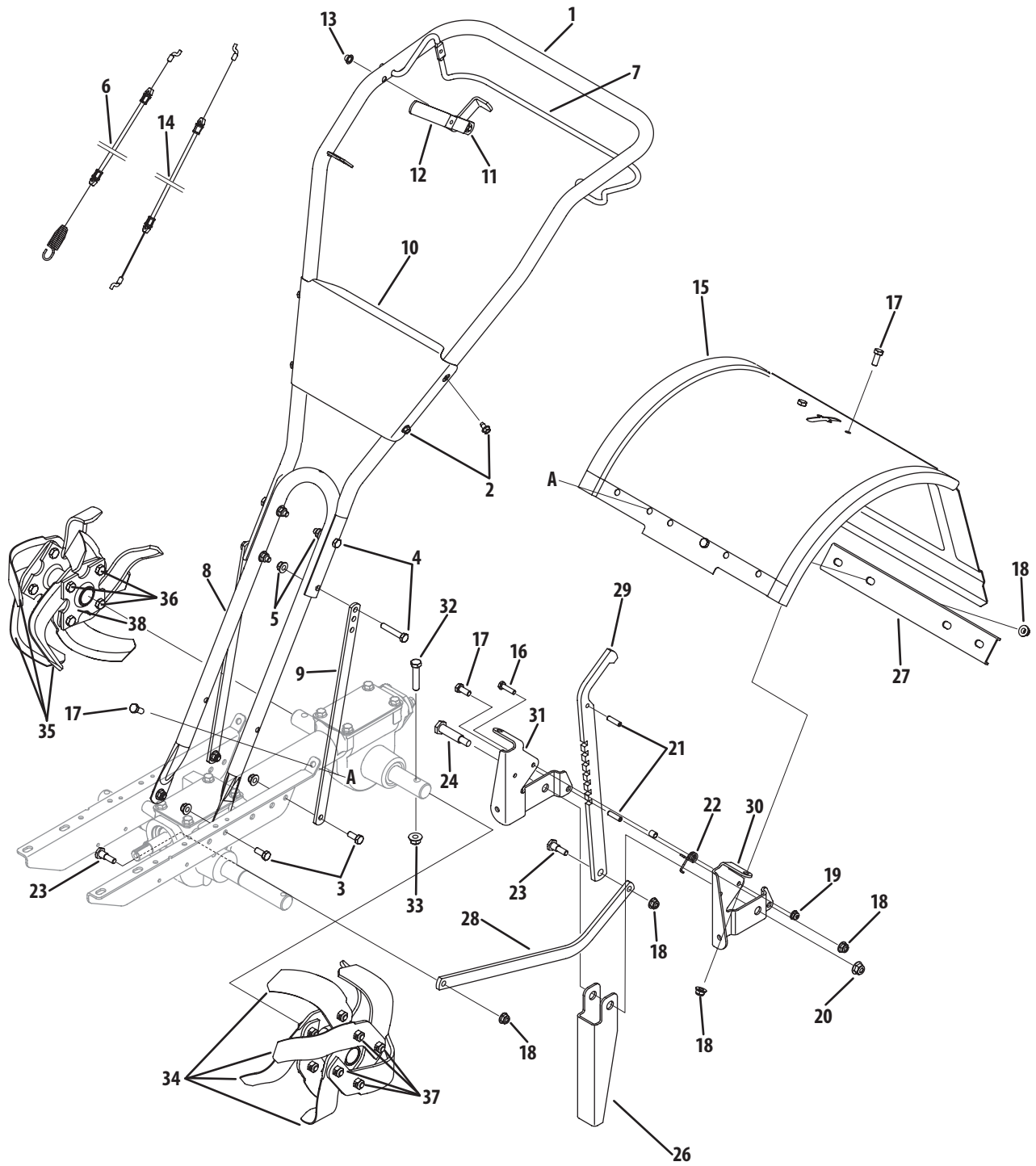
ILLUSTRATED PARTS MANUAL



Small Frame Tiller — 640 & 650 Series

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

640 & 650 Series Handle, Tine Shield & Tines



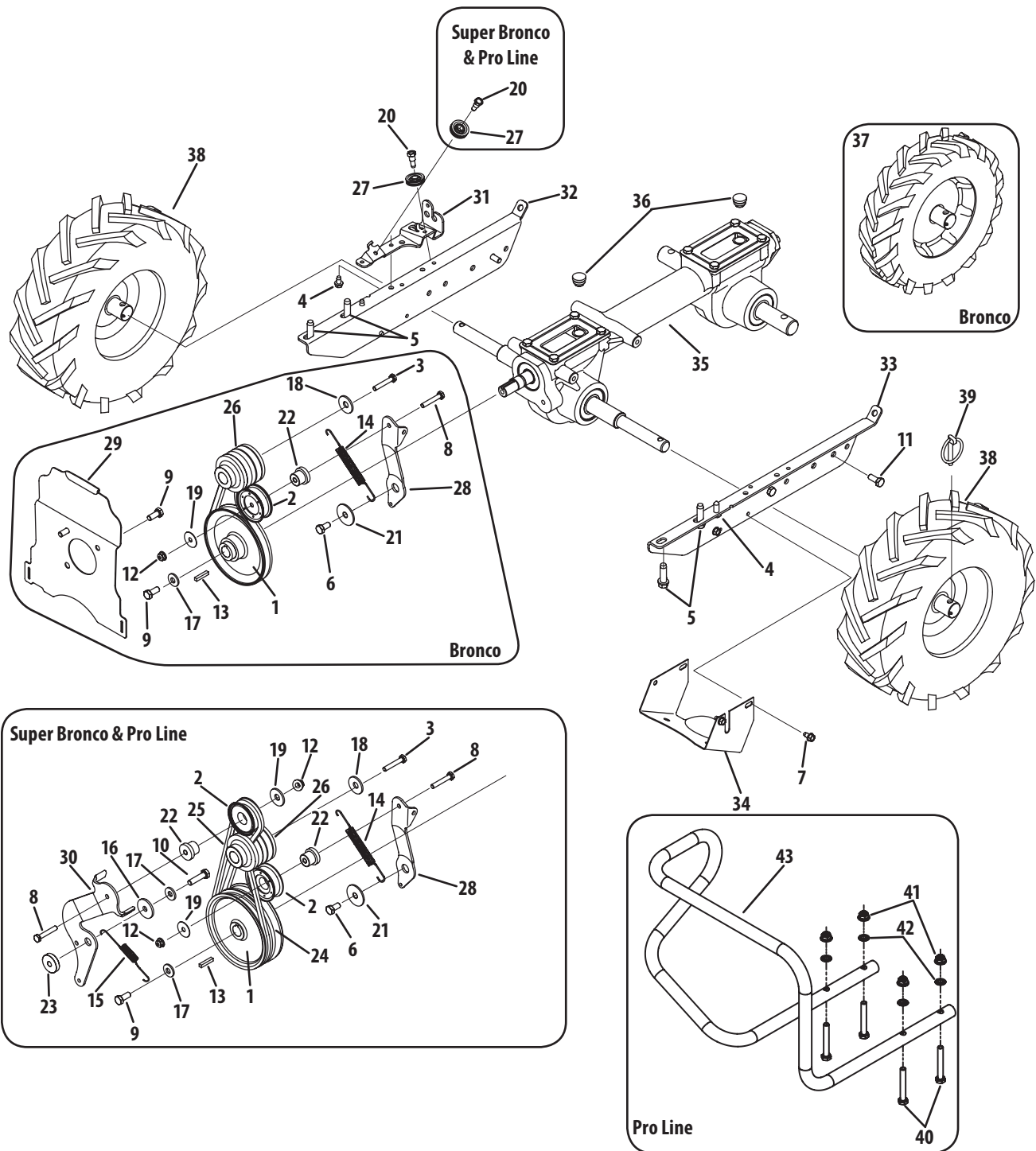
640 & 650 Series Handle, Tine Shields & Tines

Ref.	Part Number	Description
1.	649-04066	Upper Handle Assembly
2.	710-0599	Screw, ¼-20 x .500
3.	710-3008	Hex Screw, ⅝-18 x .75
4.	710-3180	Hex Screw, ⅝-18 x 1.75
5.	712-04063	Flange Lock Nut, ⅝-18
6.	746-04413	Forward Cable
7.	747-04789	Clutch Bail
8.	749-04208	Lower Handle Assembly
9.	786-04188	Handle Support Bracket
10.	786-04200	Handle Panel
11.	686-04098	Reverse Handle Assembly
12.	720-0270A	Reverse Handle Grip
13.	726-0135	Speed Nut, .3125
14.	746-04414	Reverse Cable
15.	686-04077	Tine Shield, 17" (B, C)
—	686-04073	Tine Shield, 15" (A)
16.	710-0597	Hex Screw, ¼-20 x 1.00
17.	710-3008	Hex Screw, ⅝-18 x .75
18.	712-04063	Flange Lock Nut, ⅝-18
19.	712-04064	Flange Lock Nut, ¼-20

Ref.	Part Number	Description
20.	712-04065	Flange Lock Nut, ⅜-16
21.	715-0108	Spring Pin, ¼ x 1.00
22.	732-04320	Torsion Spring
23.	738-04320	Shoulder Screw, ⅝-18 x .405 x .435
24.	738-0533	Shoulder Screw, .498 x 1.635
25.	750-04556	Split Spacer, .350 x .268 x .375
26.	786-04092	Reverse Stop Arm
27.	786-04098	Support Bracket
28.	786-04104	Depth Drag Bar
29.	786-04292	Adjustable Depth Bar
30.	786-04363	Tail Bracket, Left
31.	786-04364	Tail Bracket, Right
32.	710-0347	Hex Screw, ⅜-16 x 1.75
33.	712-04065	Flange Lock Nut, ⅜-16
34.	742-04227	Bolo Tine, 10" LH
35.	742-04226	Bolo Tine, 10" RH
36.	710-0514	Hex Screw, ⅜-16 x 1
37.	712-3000	Hex Lock Nut, ⅜-16
38.	686-04065	Tine Holder (A)
—	686-04066	Tine Holder (B, C)

A — Bronco
 B — Super Bronco
 C — Pro Line

640 & 650 Series Drive System

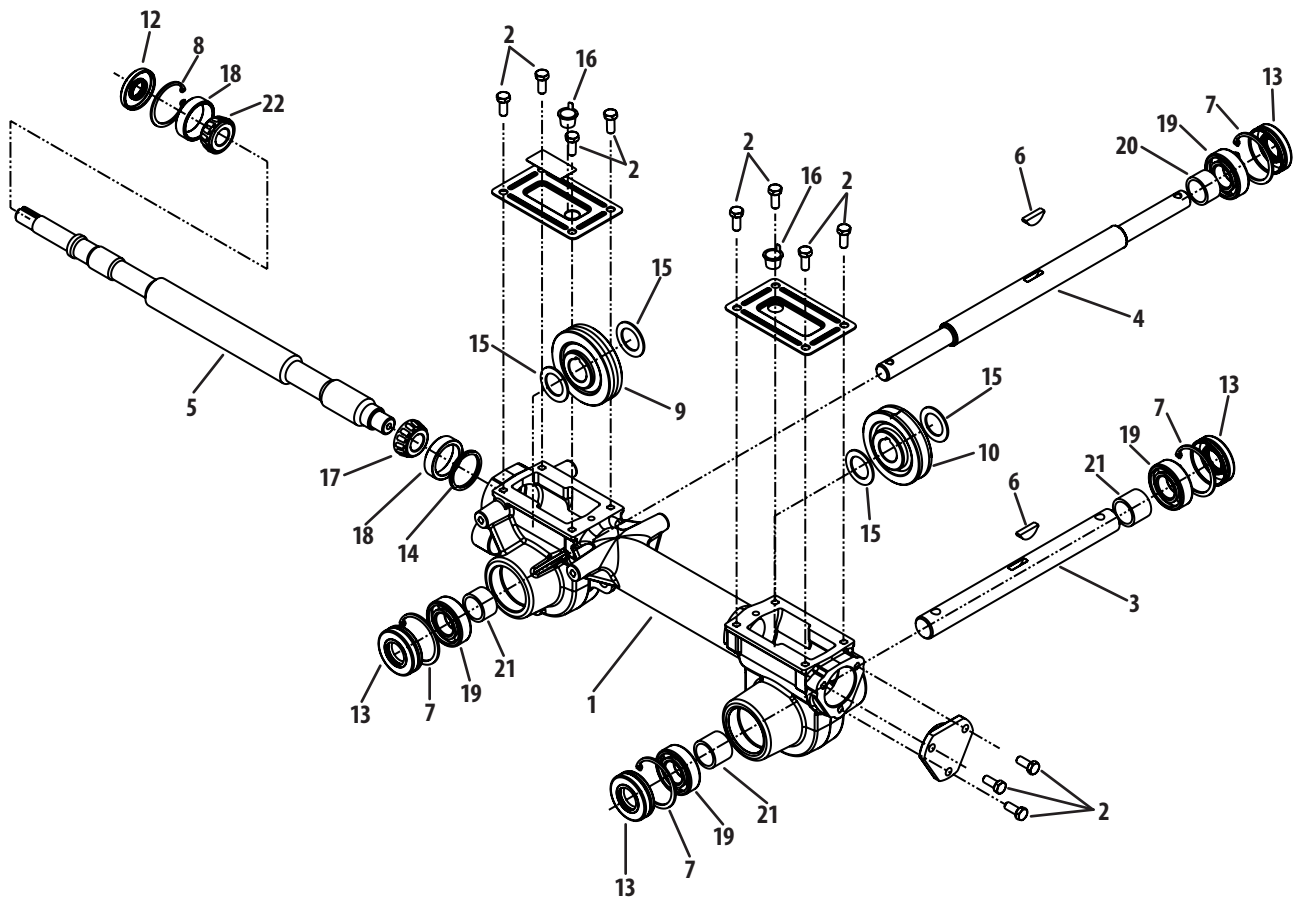


Ref.	Part Number	Description
1.	656-04023A	Engine Pulley (A)
—	656-04005A	Engine Pulley (B,C)
2.	684-04168	Idler Pulley Assembly
3.	710-0151	Hex Screw, $\frac{3}{8}$ -24 x 2
4.	710-04484	Screw, $\frac{5}{16}$ -18 x .750
5.	710-0502A	Screw, $\frac{3}{8}$ -16 x 1.250 (A,B)
6.	710-0538	Hex Screw, $\frac{5}{16}$ -18 x .625
7.	710-0599	Screw, $\frac{1}{4}$ -20 x .500
8.	710-0606	Hex Screw, $\frac{1}{4}$ -20 x 1.50
9.	710-0627	Hex Screw, $\frac{5}{16}$ -24 x .750
10.	710-0672	Hex Screw, $\frac{5}{16}$ -24 x 1.250
11.	710-3008	Hex Screw, $\frac{5}{16}$ -18 x .75
12.	712-04064	Flange Lock Nut, $\frac{1}{4}$ -20
13.	714-0105	Key, $\frac{3}{16}$ x 1.00
14.	732-04085	Extension Spring, .480 x 5.00
15.	732-04276A	Extension Spring
16.	736-0343	Flat Washer, .330 x 1.25 x .120
17.	736-04193	Belleville Washer, .827 x .331 x .098
18.	736-0452	Belleville Washer, .396 x 1.140 x .095
19.	736-3092	Flat Washer, .265 x 1.0 x .030
20.	738-0924A	Shoulder Screw, $\frac{1}{4}$ -28 x .340 x .335
21.	748-04087A	Pivot Spacer

Ref.	Part Number	Description
22.	750-04571	Shoulder Spacer, .260 x .785 x .538
23.	750-04907	Pivot Spacer
24.	754-04090	Forward Drive Belt, 4 x 25.375
25.	754-04091	Reverse Drive Belt, 3 x 29.125
26.	756-04334	Engine Pulley
27.	756-0625	Cable Roller
28.	786-04312	Forward Idler Bracket
29.	786-04343	Motor Cover Plate
30.	786-04346	Reverse Idler Bracket
31.	786-04357	Bracket
32.	786-04367	Frame, Left
33.	786-04368	Frame, Right
34.	786-04371	Pulley Shield
35.	618-04597	Transmission Assembly
36.	721-04235	Rubber Oil Plug
37.	734-04188	Wheel, 10 x 2.75 (A)
38.	634-04232	Wheel, 13 x 5 x 6 (B,C)
39.	714-0143	Klik Pin
40.	710-0395	Hex Screw, $\frac{5}{16}$ -18 x 2.25
41.	712-04063	Flange Lock Nut, $\frac{5}{16}$ -18
42.	726-0201	Speed Nut, .3125
43.	749-04193	Bumper

A — Bronco
 B — Super Bronco
 C — Pro Line

640 & 650 Series Transmission Assembly



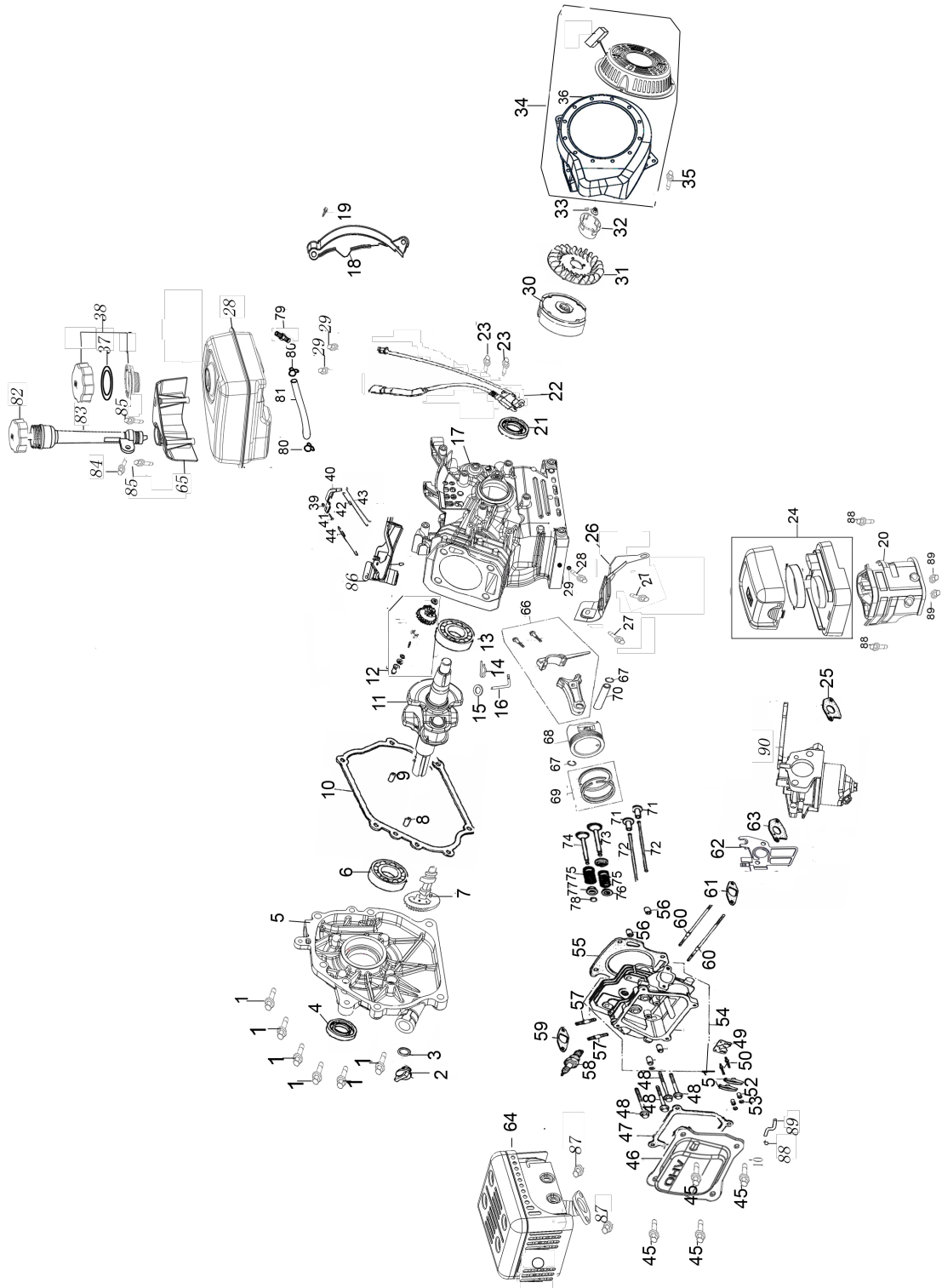
Ref.	Part Number	Description
1.	619-04190	Transmission Housing
2.	710-3008	Hex Screw, $\frac{5}{16}$ -18 x .75
3.	711-04844	Shaft
4.	711-04854	Wheel Shaft
5.	711-04882	Drive Shaft
6.	714-04059	Hi-Pro Key, .25 x 1.062
7.	716-0204	Retaining Ring
8.	716-04102	Retaining Ring
9.	717-04380	Worm Gear, 61T
10.	717-04381	Worm Gear, 30T
11.	718-04435	Bearing Cover
12.	721-04030	Oil Seal, .750 x 1.783
13.	721-04232	Oil Seal, 1.00 x 2.00

Ref.	Part Number	Description
14.	736-04305	Flat Washer, 1.50 x 1.75 x .062*
—	736-04306	Flat Washer, 1.50 x 1.75 x .005*
—	736-04307	Flat Washer, 1.50 x 1.75 x .03*
—	736-04308	Flat Washer, 1.50 x 1.75 x .010*
15.	736-0745	Flat Washer, 1.010 x 1.56 x .060
16.	737-04214	Plastic Plug
17.	741-04298	Cone Bearing
18.	741-04299	Cup Bearing
19.	741-3114	Ball Bearing
20.	750-04943	Spacer, 1.00 x 1.25 x .73
21.	750-04944	Spacer, 1.00 x 1.25 x .98
22.	786-04366	Transmission Cover

* — Washers of multiple thickness are used as required to obtain .005" to .015" of end play in the drive shaft

[illegible]

Troy-Bilt Engine (170-T0)



Troy-Bilt Engine (170-T0)

Part No.	Part Description	Ref No.	Qty.	Part No.	Part Description	Ref No.	Qty.
751-10806	Air Filter Heating Pipe Base	20	1	751-10798	Short Block	—	—
751-10792	Ignition Complete	22	1		Bolt	1	6
751-10818	Air Filter Housing	24	1		Oil Filler Plug	2	1
751-10794	Air Filter	24	1		O-Ring	3	1
751-10796	Fuel Tank	28	1		Oil Seal	4	1
751-10790	Recoil Starter Assembly	34	1		Left Crankcase Cover	5	1
751-10649	Fuel Filler Cap Complete	38	1		Radial Ball Bearing	6	1
751-10654	Governor Spring	44	1		Camshaft Assembly	7	1
751-10657	Stud 8 × 34	57	2		Dowel Pin	8	1
751-10292	Spark Plug	58	1		Dowel Pin	9	1
751-10793	Muffler	64	1		Case Cover Packing	10	1
751-10662	Dipstick Decoration Cover	65	1		Crankshaft Complete	11	1
751-10648	Push Rod Kit	71/72	—		Governor Kit	12	1
	Valve Lifter	71	2		Radial Ball Bearing	13	1
	Push Rod	72	2		Lock Pin	14	1
751-10647	Valve Kit	73/74	—		O-Ring	15	1
	Inlet Valve	73	1		Governor Arm	16	1
	Exhaust Valve	74	1		Crankcase Complete	17	1
751-10651	Fuel Tank Nipple	79	1		Oil Seal	21	1
751-10655	Dipstick	82	1		Carburetor Packing	25	1
751-10656	Engine/Dipstick Cover	83	1		Bolt	28	1
751-10797	Carburetor	90	1		Nut	29	2
751-10799	Cylinder Head	—	—		Head Cover Gasket	47	1
	Rocker Arm	51	2		Cylinder Head Gasket	55	1
	Valve Adjusting Nut	52	2		Carburetor Insulator Packing	61	1
	Pivot Locking Nut	53	2		Carburetor Insulator	62	1
	Cylinder Head Complete	54	1		Connecting Rod Assembly	66	1
	Dowel Pin	56	2		Piston Pin Clip	67	2
	Muffler Gasket	59	1		Piston	68	1
					Piston First Ring Set	69	1
					Piston Pin	70	1
				751-10307	Flywheel Key (Not Shown)	—	—
				751-10800	Carb. Kit Major (Not Shown)	—	—
				751-10801	Gasket Kit — Ext. (Not Shown)	—	—
				751-10802	Gasket Kit — Comp. (Not Shown)	—	—

[illegible]

[illegible]

To order replacement parts or locate your nearest service dealer call Customer Support at (800) 828-5500.
or visit www.troybilt.com to find the nearest authorized dealer in your area.

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