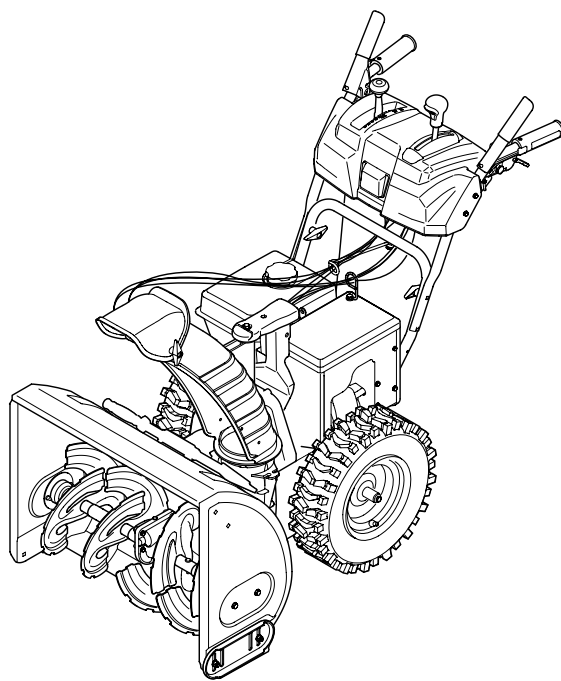


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# ILLUSTRATED PARTS MANUAL



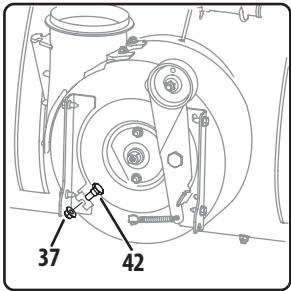
## 600 Series Snow Throwers

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

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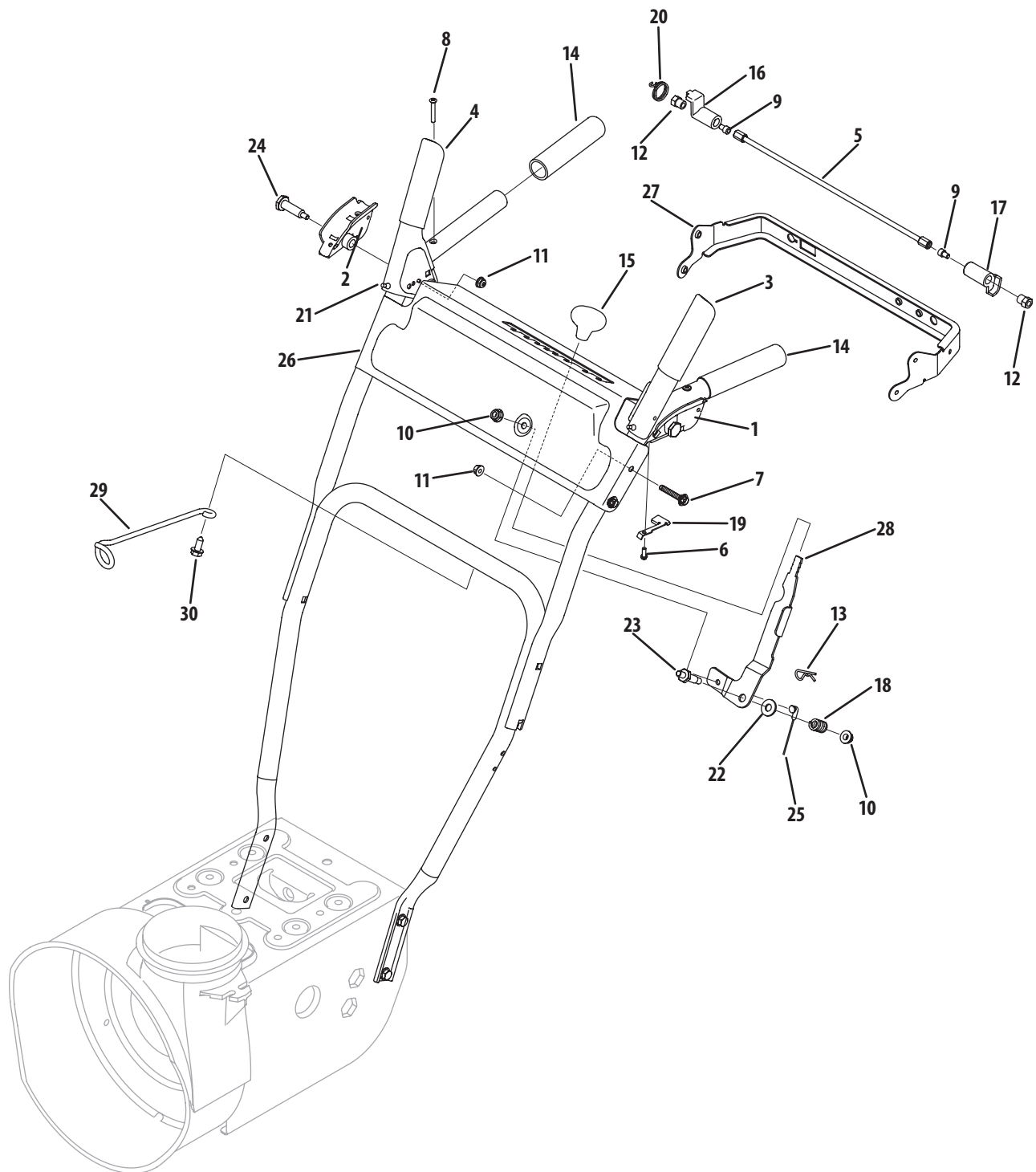
## Auger & Auger Housing



## Auger & Auger Housing

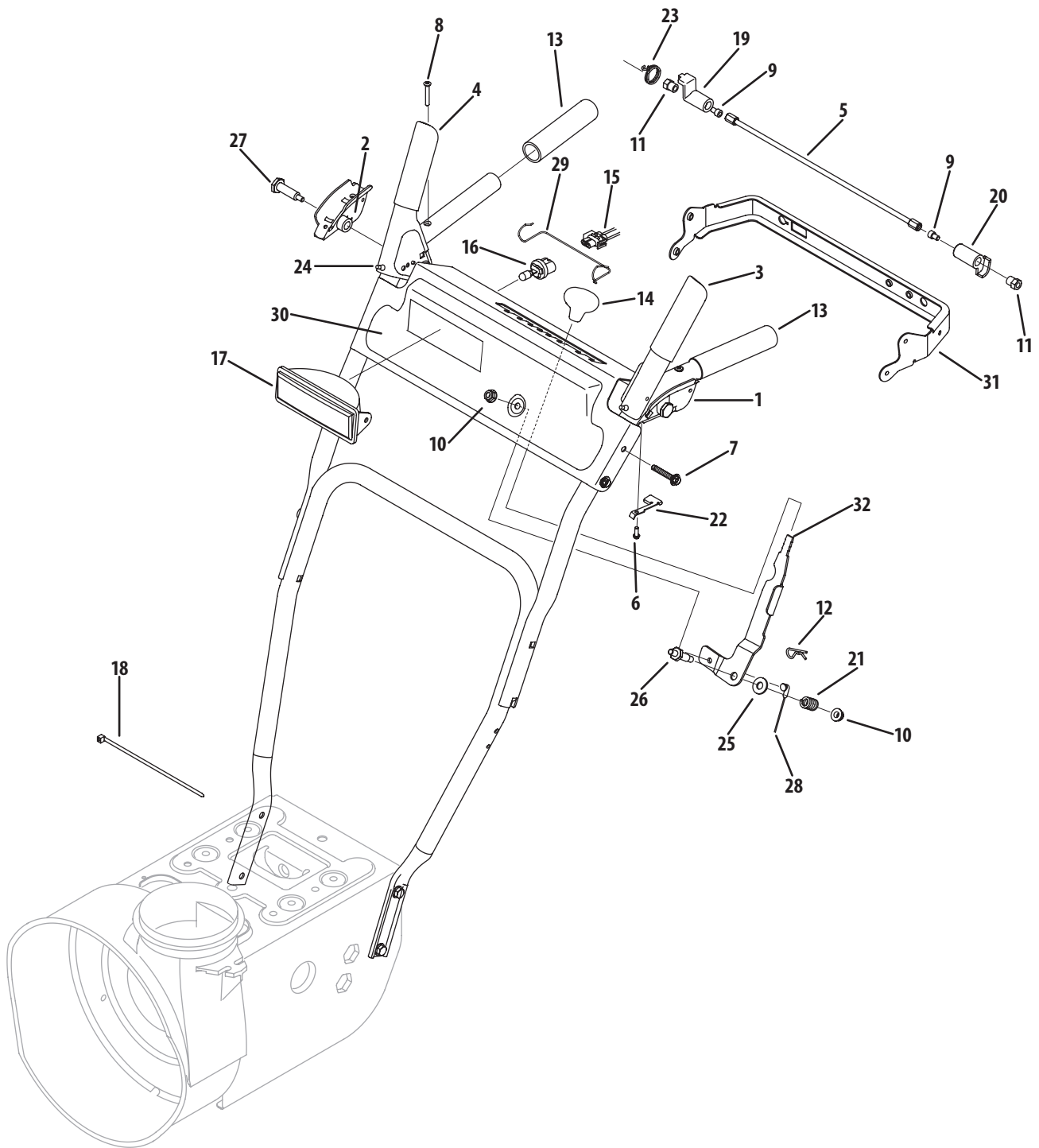
| Ref. | Part Number | Description                           | Ref. | Part Number | Description                          |
|------|-------------|---------------------------------------|------|-------------|--------------------------------------|
| 1.   | 618-0123A   | Housing Assembly, RH                  | 25.  | 741-0493A   | Flange Bushing, .800 ID x .910 OD    |
| 2.   | 618-0124A   | Housing Assembly, LH                  | 26.  | 790-00087A  | Bearing Housing, 1"                  |
| 3.   | 710-0642    | Hex Washer Screw, ¼-20 x .750         | 27.  | 790-00120   | Shave Plate, 24"                     |
| 4.   | 711-04285   | Auger Axle, 24"                       | —    | 790-00121   | Shave Plate, 26"                     |
| —    | 711-04284   | Auger Axle, 26"                       | —    | 790-00118   | Shave Plate, 28"                     |
| —    | 711-04283   | Auger Axle, 28"                       | —    | 790-00119   | Shave Plate, 30"                     |
| —    | 711-04282   | Auger Axle, 30"                       | 28.  | 731-2643    | Chute Cleanout Tool                  |
| 5.   | 714-0161    | Hi-Pro Key                            | 29.  | 731-2635    | Cleanout Tool Mount                  |
| 6.   | 715-04021   | Dowel Pin, .25 OD x 1.25 LG           | 30.  | 684-04057A  | Impeller Assembly, 12"               |
| 7.   | 717-04126   | Worm Shaft, .75 OD                    | 31.  | 710-0347    | Hex Screw, ⅜-16 x 1.75               |
| 8.   | 717-04449   | Worm Gear 20T, 24"                    | 32.  | 710-04484   | Hex Washer Screw, ⅝-18 x .750        |
| —    | 717-04449   | Worm Gear 20T, 26"                    | 33.  | 710-0451    | Carriage Bolt, ⅝-18 x .750           |
| —    | 717-0528A   | Worm Gear 20T, 28"& 30"               | 34.  | 710-0703    | Carriage Screw, ¼-20 x .75           |
| 9.   | 718-04071   | Thrust Collar, .756 ID x .600         | 35.  | 712-04063   | Flange Lock Nut, ⅝-18                |
| 10.  | 721-0325    | Plug, ¼ x .437                        | 36.  | 712-04064   | Flange Lock Nut, ¼-20                |
| 11.  | 721-0327    | Oil Seal, .75 x 1.131 x .188          | 37.  | 712-04065   | Flange Lock Nut, ⅜-16                |
| 12.  | 736-0351    | Flat Washer, .760 ID x 1.50 ID        | 38.  | 725-0157    | Cable Tie, ⅜ x .05 x 7.4             |
| 13.  | 736-3084    | Flat Washer, .51 x 1.12 x .06         | 39.  | 726-04012   | Push Nut, .25 Dia.                   |
| 14.  | 741-0662    | Flng. Bearing, .75 ID x 1.00 OD x .59 | 40.  | 731-04705C  | Chute Adapter, 5"                    |
| 15.  | 741-0663    | Flange Bearing, .50 ID x .75 OD x .59 | 41.  | 736-0242    | Bell Washer, .340 x .872 x .060      |
| 16.  | 618-04171A  | Gearbox Assembly, 24"                 | 42.  | 738-0143    | Shoulder Bolt, .496 x .336 x ⅜-16    |
| —    | 618-04172A  | Gearbox Assembly, 26"                 | 43.  | 738-0281    | Shoulder Screw, .625 x .17 x ⅜-16    |
| —    | 618-04173A  | Gearbox Assembly, 28"                 | 44.  | 741-0245    | Hex Flange Bearing, .75 ID           |
| —    | 618-04165A  | Gearbox Assembly, 30"                 | 45.  | 741-0309    | Ball Bearing, .75 ID x 1.85 OD       |
| 17.  | 684-04107   | Spiral Assembly, LH                   | 46.  | 756-0981B   | Idler Pulley, .275 OD                |
| 18.  | 684-04108   | Spiral Assembly, RH                   | 47.  | 790-00075   | Bearing Housing, 1.85 ID             |
| 19.  | 684-04265   | Auger Housing Assembly, 24"           | 48.  | 790-00080A  | Auger Idler Bracket                  |
| —    | 684-04270   | Auger Housing Assembly, 24" (TB)      | 49.  | 736-0174    | Wave Washer, .625 x .885 x .015      |
| —    | 684-04264   | Auger Housing Assembly, 26"           | 50.  | 746-04230   | Auger Drive Cable                    |
| —    | 684-04271   | Auger Housing Assembly, 26" (TB)      | 51.  | 629-0071    | Extension Cord (Electric Start Only) |
| —    | 684-04268   | Auger Housing Assembly, 28"           | 52.  | 710-0451    | Carriage Bolt, ⅝-18 x .750           |
| —    | 684-04272   | Auger Housing Assembly, 28" (TB)      | 53.  | 712-04063   | Flange Lock Nut, ⅝-18                |
| —    | 684-04267   | Auger Housing Assembly, 30"           | 54.  | 784-5580    | Skid Shoe                            |
| 20.  | 714-04040   | Bow-Tie Cotter Pin                    | 55.  | 731-06439   | Polymer Skid Shoe                    |
| 21.  | 731-04870   | Spacer, 1.2500 x .75 ID x 1.00 LG     | 56.  | 736-0159    | Flat Washer, .349 x .879 x .063      |
| 22.  | 731-04871   | Spacer, 1.250 x .75 ID x ⅜ LG +       | 57.  | 731-05984A  | Deluxe Polymer Skid Shoe             |
| 23.  | 736-0188    | Flat Washer, .76 x 1.49 x .06         | 58.  | 790-00091   | Deluxe Skid Shoe                     |
| 24.  | 738-04124A  | Shear Pin, .25 x 1.50                 | 59.  | 732-04460   | Extension Spring                     |

+ — Spacer used on 30" augers only



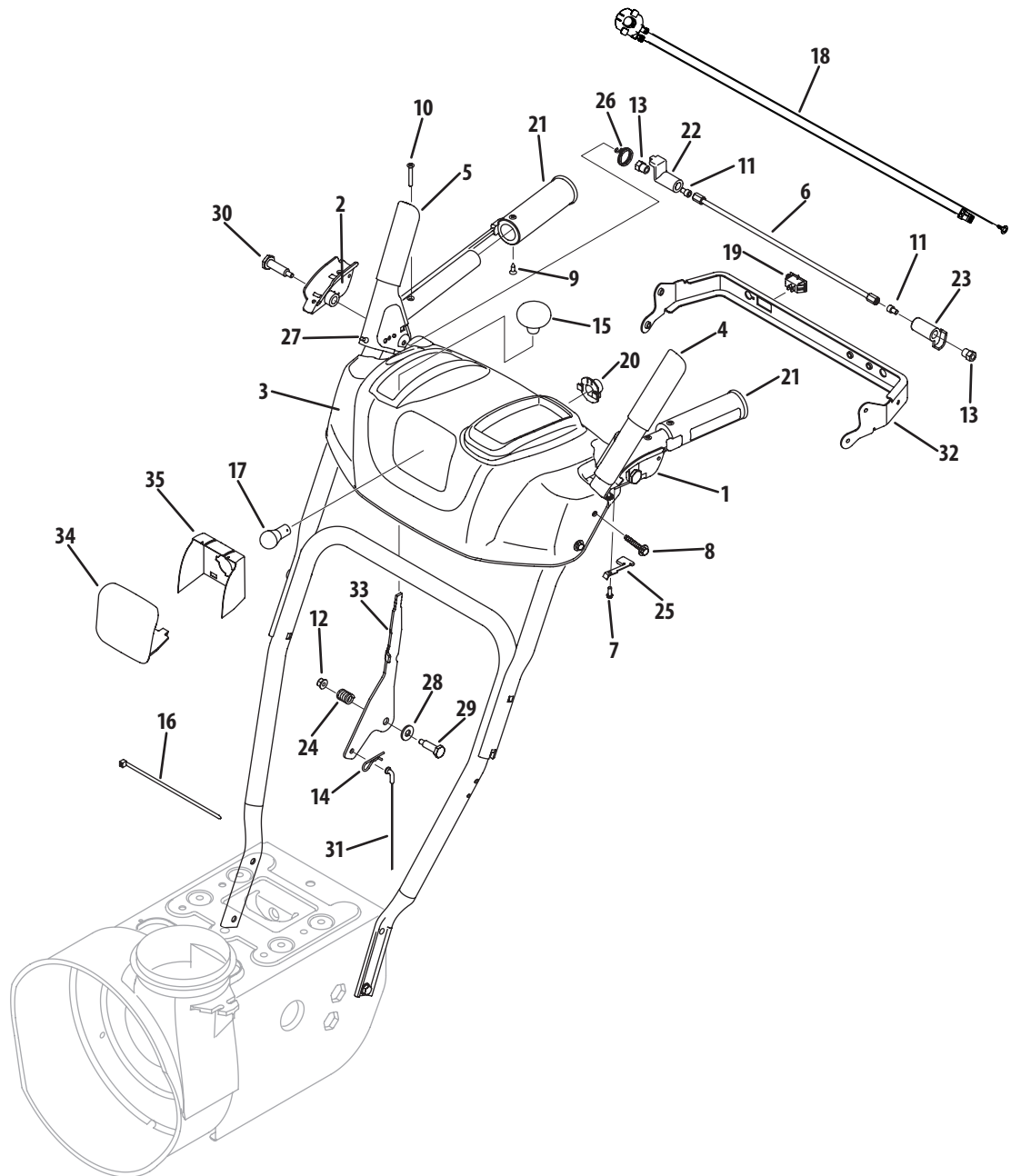
| Ref. | Part Number | Description                                     |
|------|-------------|-------------------------------------------------|
| 1.   | 631-04133A  | Clutch Lock Handle Assembly, LH                 |
| 2.   | 631-04134B  | Clutch Lock Handle Assembly, RH                 |
| 3.   | 684-04105B  | Engagement Assembly, LH                         |
| 4.   | 684-04106B  | Engagement Assembly, RH                         |
| 5.   | 684-04250   | Clutch Pivot Lock Rod Assembly                  |
| 6.   | 710-04326   | Hex Washer Screw, 8-16 x .50                    |
| 7.   | 710-04586   | Hex Washer Screw, ¼-20 x 1.625                  |
| —    | 710-0606    | Hex Screw, ¼-20 x 1.50                          |
| 8.   | 710-1233    | Machine Screw, ¼-20 x .50                       |
| 9.   | 710-3069    | Socket Head Cap Screw, ¼-20 x .50               |
| 10.  | 712-04063   | Flange Lock Nut, ⅝-18                           |
| 11.  | 712-04064   | Flange Lock Nut, ¼-20                           |
| 12.  | 712-04081A  | Hex Nut, ¼-20                                   |
| 13.  | 714-0145    | Click Pin, .092 x 1.64                          |
| 14.  | 720-0274    | Grip, 1.0 ID x 5.0 LG                           |
| 15.  | 720-04039   | Shift Knob                                      |
| 16.  | 731-04894D  | Lock Plate                                      |
| 17.  | 731-04896B  | Clutch Lock Cam                                 |
| 18.  | 732-0193    | Compression Spring, .39 x .60 x .88             |
| 19.  | 732-04219C  | Clutch Lock Spring                              |
| 20.  | 732-04238   | Torsion Spring, 0.8156 ID x .3038               |
| 21.  | 735-0199A   | Rubber Bumper, .62 OD x .22 Thick               |
| 22.  | 736-0262    | Flat Washer, .385 x .870 x .092                 |
| 23.  | 736-04118   | Shoulder Bolt, ⅝-18 x .905                      |
| 24.  | 738-04348   | Shoulder Screw, .437 x 1.345 x ¼-20             |
| 25.  | 746-04397   | Speed Selector Cable                            |
| 26.  | 790-00219   | Handle Panel                                    |
| 27.  | 790-00248B  | Panel Bracket                                   |
| 28.  | 790-00313   | Speed Shift Lever                               |
| 29.  | 747-04784   | Cable Guide (B & S Engine)                      |
| 30.  | 710-04484   | Hex Washer Screw, ⅝-18 x .750<br>(B & S Engine) |

## F-Style Panel



| Ref. | Part Number | Description                           |
|------|-------------|---------------------------------------|
| 1.   | 631-04133A  | Clutch Lock Handle Assembly, LH       |
| 2.   | 631-04134B  | Clutch Lock Handle Assembly, RH       |
| 3.   | 684-04105B  | Engagement Assembly, LH               |
| 4.   | 684-04106B  | Engagement Assembly, RH               |
| 5.   | 684-04250   | Clutch Pivot Lock Rod Assembly        |
| 6.   | 710-04326   | Hex Washer Screw, #8-16 x .50         |
| 7.   | 710-04586   | Hex Washer Screw, 1/4-20 x .620       |
| 8.   | 710-1233    | Machine Screw, #10-24 x 1.375         |
| 9.   | 710-3069    | Socket Screw, 1/4-20 x .50            |
| 10.  | 712-04063   | Flange Lock Nut, 5/16-18              |
| 11.  | 712-04081A  | Hex Nut, 1/4-20                       |
| 12.  | 714-0145    | Click Pin, .092 x 1.64                |
| 13.  | 720-0274    | Grip, 1.0 ID x 5.0 LG                 |
| 14.  | 720-04039   | Shift Knob                            |
| 15.  | 725-04622   | Snow Thrower Harness                  |
| 16.  | 725-1658    | Halogen Lamp                          |
| 17.  | 725-1672    | Lens/Lamp Assembly Housing            |
| 18.  | 726-0154    | Cable Tie                             |
| 19.  | 731-04894D  | Lock Plate                            |
| 20.  | 731-04896B  | Clutch Lock Cam                       |
| 21.  | 732-0193    | Compression Spring, .39 x .60 x .88   |
| 22.  | 732-04219C  | Clutch Lock Spring                    |
| 23.  | 732-04238   | Torsion Spring, .8156 ID x .3038      |
| 24.  | 735-0199A   | Rubber Bumper, .62 OD x .22 Thick     |
| 25.  | 736-0262    | Flat Washer, .385 x .870 x .092       |
| 26.  | 738-04118   | Shoulder Bolt, 5/16-18 x .905         |
| 27.  | 738-04348   | Shoulder Screw, .437 x 1.345 x 1/4-20 |
| 28.  | 746-04397   | Speed Selector Cable                  |
| 29.  | 747-1136    | Headlight Retainer                    |
| 30.  | 790-00209   | Handle Panel                          |
| 31.  | 790-00248B  | Panel Bracket                         |
| 32.  | 790-00313   | Speed Shift Lever                     |

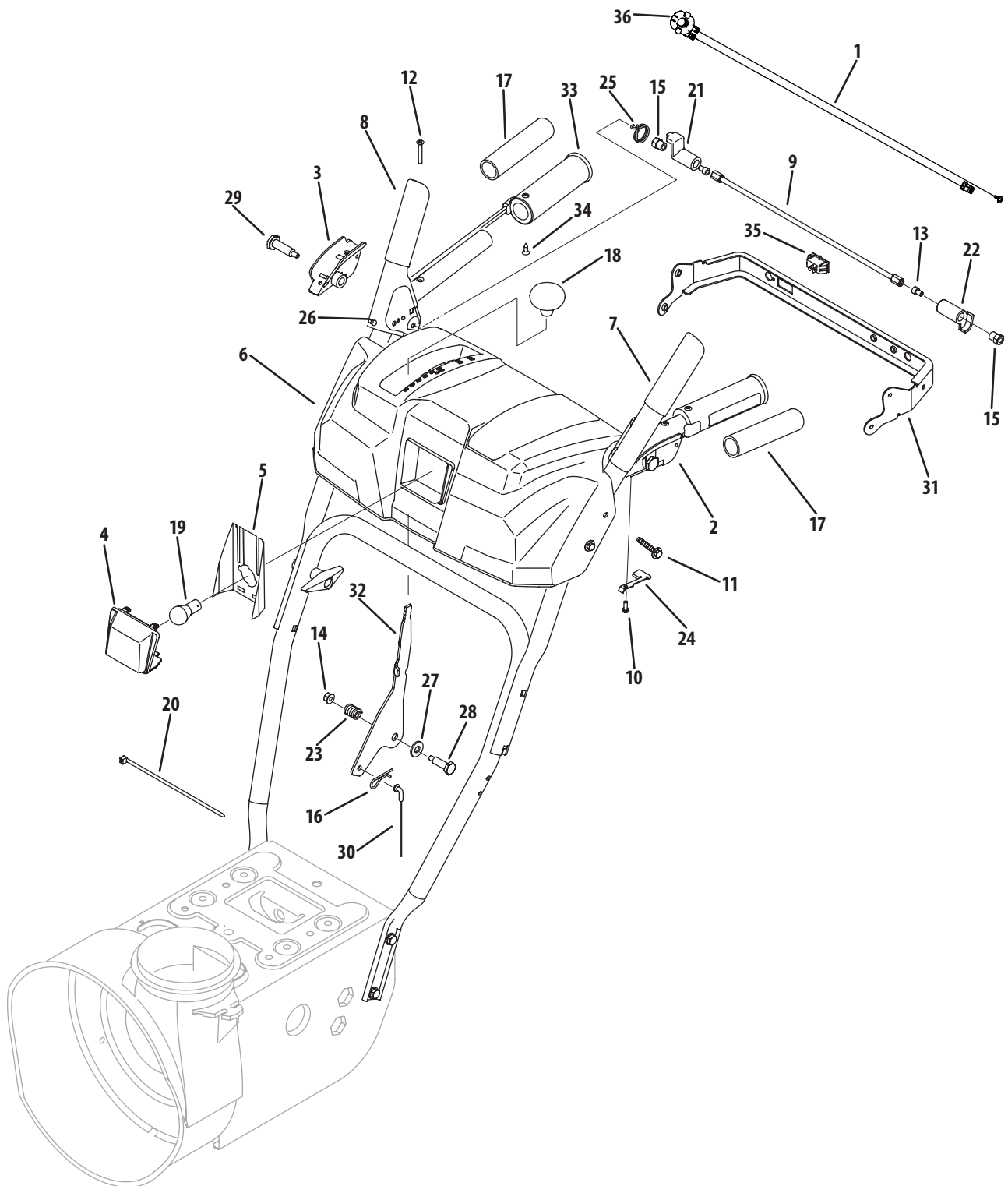
## K-Style Panel





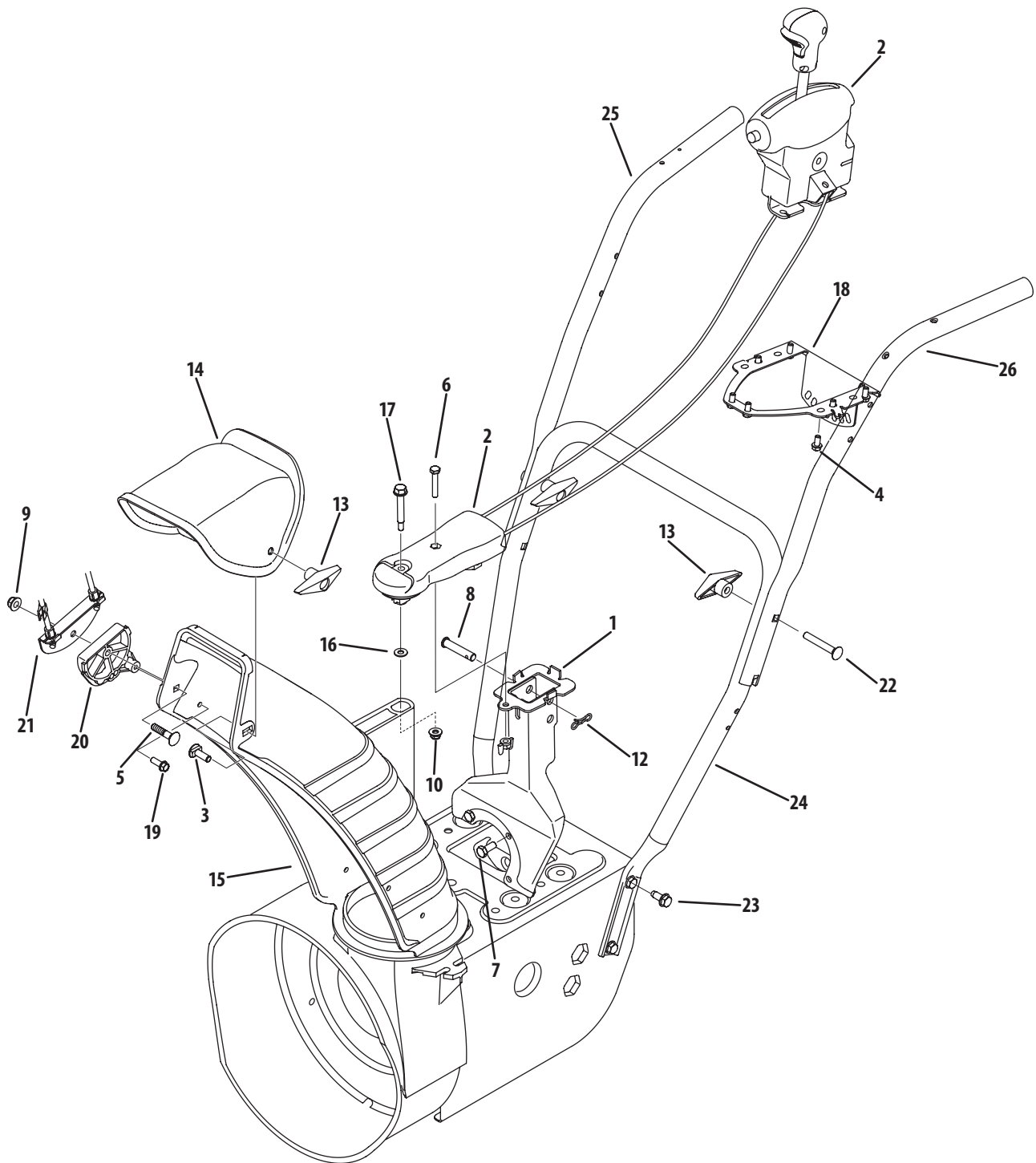
| Ref. | Part Number | Description                          |
|------|-------------|--------------------------------------|
| 1.   | 631-04133A  | Clutch Lock Handle Assembly, LH      |
| 2.   | 631-04134B  | Clutch Lock Handle Assembly, RH      |
| 3.   | 631-04186   | Handle Panel                         |
| 4.   | 684-04105B  | Engagement Assembly, LH              |
| 5.   | 684-04106B  | Engagement Assembly, RH              |
| 6.   | 684-04250   | Clutch 736- Lock Rod Assembly        |
| 7.   | 710-04326   | Hex Washer Screw, #8-16 x .50        |
| 8.   | 710-04586   | Hex Washer Screw, ¼-20 x 1.625       |
| 9.   | 710-0837    | Screw, #10-16 x .625                 |
| 10.  | 710-1233    | Machine Screw, #10-24 x 1.375        |
| 11.  | 710-3069    | Socket Screw, ¼-20 x .50             |
| 12.  | 712-04064   | Flange Lock Nut, ¼-20                |
| 13.  | 712-04081A  | Hex Nut, ¼-20                        |
| 14.  | 714-0145    | Click Pin, .092 x 1.64               |
| 15.  | 720-04039   | Shift Knob                           |
| 16.  | 725-0157    | Cable Tie                            |
| 17.  | 725-04213   | Lamp                                 |
| 18.  | 725-04216A  | Wire Harness                         |
| 19.  | 725-04393   | Heated Grip Switch                   |
| 20.  | 725-1649    | Nylon Socket                         |
| 21.  | 725-1757    | Heated Grip                          |
| 22.  | 731-04894D  | Lock Plate                           |
| 23.  | 731-04896B  | Clutch Lock Cam                      |
| 24.  | 723-0193    | Compression Spring, .39 x .60 x .88  |
| 25.  | 732-04219C  | Clutch Lock Spring                   |
| 26.  | 732-04238   | Torsion Spring, .8156 ID x .3038     |
| 27.  | 735-0199A   | Rubber Bumper, .62 OD x .22 Thick    |
| 28.  | 736-0267    | Flat Washer, .385 x .87 x .06        |
| 29.  | 738-04125   | Shoulder Screw, .374 Dia. x 1.05 LG. |
| 30.  | 738-04348   | Shoulder Screw, .437 x 1.345 x ¼-20  |
| 31.  | 746-04396   | Speed Selector Cable                 |
| 32.  | 790-00248B  | Panel Bracket                        |
| 33.  | 790-00311   | Shift Lever                          |
| 34.  | 731-05320   | Headlight Lens                       |
| 35.  | 777X41803   | YM Lens Label                        |

## P/Q-Style Panel



| Ref. | Part Number | Description                        |
|------|-------------|------------------------------------|
| 1.   | 725-04314   | Wire Harness                       |
| 2.   | 631-04133A  | Clutch Lock Handle Assembly, LH    |
| 3.   | 631-04134B  | Clutch Lock Handle Assembly, RH    |
| 4.   | 731-05319   | Lens                               |
| 5.   | 777X41805   | Lens Label                         |
| 6.   | 731-05332   | Troy-Bilt Handle Panel             |
| 7.   | 684-04105B  | Engagement Assembly, LH            |
| 8.   | 684-04106B  | Engagement Assembly, RH            |
| 9.   | 684-04250   | Clutch Pivot Lock Rod Assembly     |
| 10.  | 710-04326   | Plastic Screw, #8-16 x .50         |
| 11.  | 710-04586   | Hex Washer Screw, ¼-20 x 1.625     |
| 12.  | 710-1233    | Screw, #10-24 x 1.375              |
| 13.  | 710-3069    | Socket Screw, ¼-20 x .50           |
| 14.  | 712-04064   | Flange Lock Nut, ¼-20              |
| 15.  | 712-04081A  | Hex Nut, ¼-20                      |
| 16.  | 714-0145    | Click Pin, .092 x 1.64             |
| 17.  | 720-0274    | Grip, 1.0 x 5.0                    |
| 18.  | 720-04039   | Shift Knob                         |
| 19.  | 725-1629    | Lamp                               |
| 20.  | 726-0154    | Cable Tie                          |
| 21.  | 731-04894D  | Plate Lock                         |
| 22.  | 731-04896B  | Clutch Lock                        |
| 23.  | 732-0193    | Compression Spring .39 x .60 x .88 |
| 24.  | 732-04219C  | Clutch Lock Spring                 |
| 25.  | 732-04238   | Torsion Spring, .80156 ID x .3038  |
| 26.  | 735-0199A   | Rubber Bumper, .62 OD x .22        |
| 27.  | 736-0267    | Flat Washer, .385 x .87 x .06      |
| 28.  | 738-04125   | Shoulder Screw, .374 x 1.05        |
| 29.  | 738-04348   | Shlder. Screw, .437 x 1.345 x ¼-20 |
| 30.  | 746-04396   | Speed Selector Cable               |
| 31.  | 790-00248B  | Panel Bracket                      |
| 32.  | 790-00311   | Shift Lever                        |
| 33.  | 725-1757    | Heated Grip                        |
| 34.  | 710-0837    | Screw, #10-16 x .625               |
| 35.  | 725-04393   | Heated Grip Switch                 |
| 36.  | 725-1649    | Nylon Socket                       |

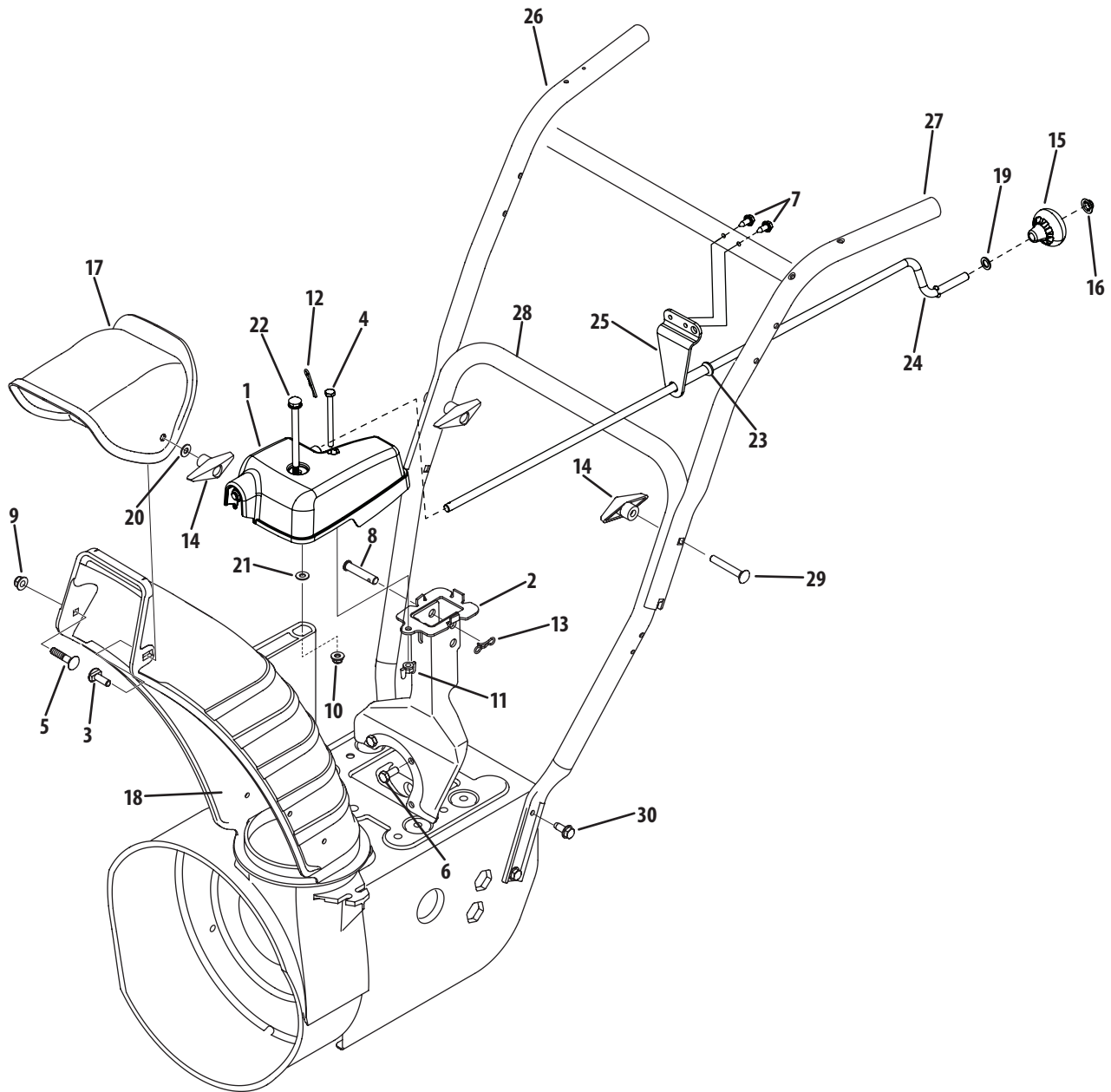
## 2-way & 4-way Extended Chute



## 2-way & 4-way Extended Chute

| Ref. | Part Number | Description                                       |
|------|-------------|---------------------------------------------------|
| 1.   | 684-04311   | Chute Support Bracket                             |
| 2.   | 684-04331   | 4-way Extended Chute Control                      |
| —    | 684-04334   | 2-way Extended Chute Control                      |
| 3.   | 710-04071   | Carriage Bolt, $\frac{5}{16}$ -18 x 1.00          |
| 4.   | 710-04187   | Hex Washer Screw, $\frac{1}{4}$ -15 x .50         |
| 5.   | 710-0451    | Carriage Bolt, $\frac{5}{16}$ -18 x .750 (2-way)  |
| —    | 710-0262    | Carriage Bolt, $\frac{5}{16}$ -18 x 1.50 (4-way)  |
| 6.   | 710-0606    | Hex Screw, $\frac{1}{4}$ -20 x 1.50               |
| 7.   | 710-0627    | Hex Screw, $\frac{5}{16}$ -24 x .750              |
| 8.   | 711-04469A  | Clevis Pin, $\frac{3}{8}$ -1.87                   |
| 9.   | 712-04063   | Flange Lock Nut, $\frac{5}{16}$ -18               |
| 10.  | 712-04064   | Flange Lock Nut, $\frac{1}{4}$ -20                |
| 11.  | 712-3087    | Wing Nut, $\frac{1}{4}$ -20                       |
| 12.  | 714-04040   | Bow-tie Cotter Pin                                |
| 13.  | 720-0284    | Wing Knob, $\frac{5}{16}$ -18                     |
| 14.  | 731-04426A  | Upper Chute (2-way)                               |
| —    | 731-04427A  | Upper Chute (4-way)                               |
| 15.  | 731-06440   | Lower Chute, 5.0                                  |
| 16.  | 736-0463    | Flat Washer, .25 x .630 x .0515                   |
| 17.  | 738-04194   | Shoulder Screw, .312 x 1.70 x $\frac{1}{4}$ -20   |
| 18.  | 790-00131A  | Lock Control Bracket                              |
| 19.  | 710-0895    | Hex Wshr. Screw, $\frac{1}{4}$ -15 x .750 (4-way) |
| 20.  | 731-06451   | Chute Tilt Cable Guide (4-way)                    |
| 21.  | 784-5594    | Cable Bracket (4-way)                             |
| 22.  | 710-0449    | Carriage Screw, $\frac{5}{16}$ -18 x 2.25         |
| 23.  | 710-04484   | Hex Washer Screw, $\frac{5}{16}$ -18 x .750       |
| 24.  | 749-04138A  | Lower Handle                                      |
| 25.  | 749-04190A  | Upper Handle, RH                                  |
| 26.  | 749-04191A  | Upper Handle, LH                                  |

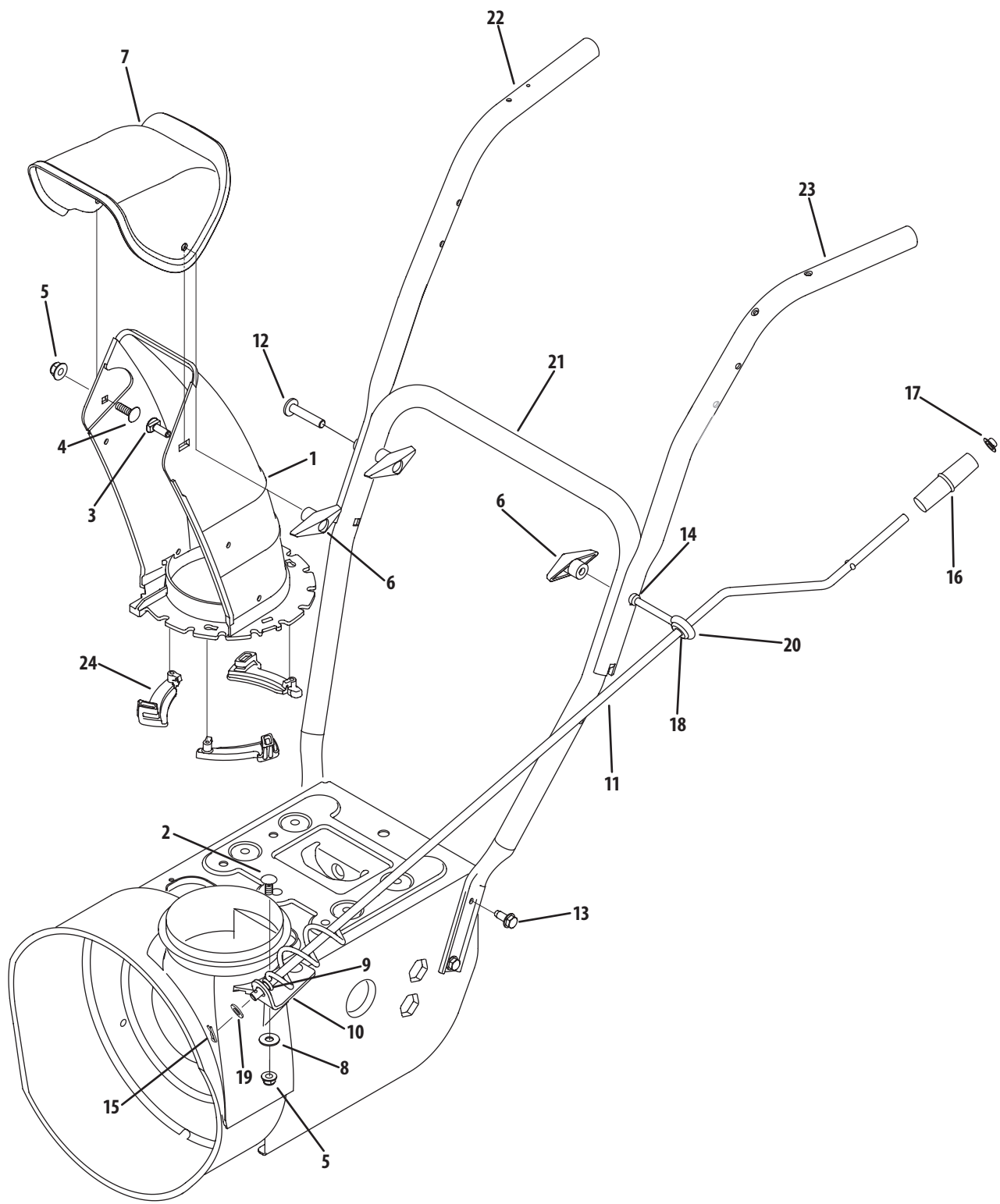
## Extended Chute — Briggs & Stratton and Tecumseh Engines



## Extended Chute — Briggs & Stratton and Tecumseh Engines

| Ref. | Part Number | Description                                   |
|------|-------------|-----------------------------------------------|
| 1.   | 618-04748   | Chute Rotation Gear Box                       |
| 2.   | 684-04311   | Chute Support Bracket                         |
| 3.   | 710-04071   | Carriage Bolt, $\frac{5}{16}$ -18 x .750      |
| 4.   | 710-04370   | Hex Screw, $\frac{1}{4}$ -20 x 3.00           |
| 5.   | 710-0451    | Carriage Bolt, $\frac{5}{16}$ -18 x .750      |
| 6.   | 710-0627    | Hex Lock Screw, $\frac{5}{16}$ -24 x .750     |
| 7.   | 710-1652    | Hex Washer Screw, $\frac{1}{4}$ -20 x .625    |
| 8.   | 711-04469A  | Clevis Pin, $\frac{3}{8}$ -1.87               |
| 9.   | 712-04063   | Flange Lock Nut, $\frac{5}{16}$ -18           |
| 10.  | 712-04064   | Flange Lock Nut, $\frac{1}{4}$ -20            |
| 11.  | 712-3087    | Wing Nut, $\frac{1}{4}$ -20                   |
| 12.  | 714-0101    | Cotter Pin, .08 x 1.42                        |
| 13.  | 714-04040   | Bow-tie Cotter Pin                            |
| 14.  | 720-0284    | Wing Knob, $\frac{5}{16}$ -18                 |
| 15.  | 720-04102   | Shift Knob, .390                              |
| 16.  | 726-0100    | Push Cap, $\frac{3}{8}$                       |
| 17.  | 731-04426A  | Upper Chute                                   |
| 18.  | 731-06440   | Lower Chute, 5.0                              |
| 19.  | 736-0140    | Flat Washer, .385 x .62 x .063                |
| 20.  | 736-0159    | Flat Washer, .349 x .879 x .063               |
| 21.  | 736-0463    | Flat Washer, .25 x .630 x .0515               |
| 22.  | 738-04367   | Shoulder Screw, .312 x .5 x $\frac{1}{4}$ -20 |
| 23.  | 741-0475    | Plastic Bushing                               |
| 24.  | 747-05006   | Chute Crank                                   |
| 25.  | 790-00341   | Rod Support Bracket                           |
| 26.  | 749-04190A  | Upper Handle, RH                              |
| 27.  | 749-04191A  | Upper Handle, LH                              |
| 28.  | 749-04138A  | Lower Handle                                  |
| 29.  | 710-0449    | Carriage Screw, $\frac{5}{16}$ -18 x 2.25     |
| 30.  | 710-04484   | Hex Washer Screw, $\frac{5}{16}$ -18 x .750   |

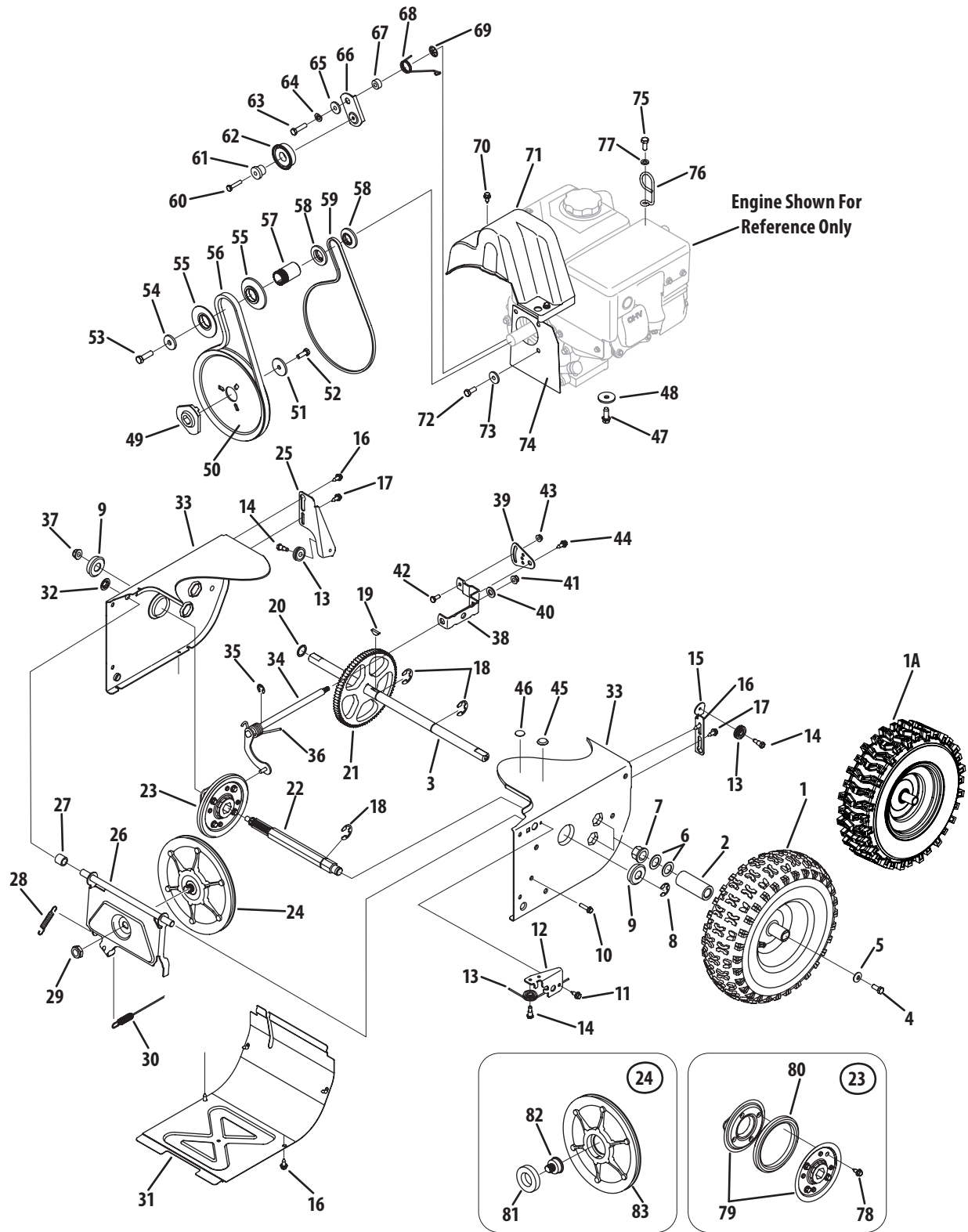
## Standard 2-way Chute





| Ref. | Part Number | Description                         |
|------|-------------|-------------------------------------|
| 1.   | 631-04131B  | Chute Assembly                      |
| 2.   | 710-0276    | Carriage Screw, 5/16-18 x 1.00      |
| 3.   | 710-04071   | Carriage Bolt, 5/16-18 x 1.00       |
| 4.   | 710-0451    | Carriage Bolt, 5/16-18 x .750       |
| 5.   | 712-04063   | Flange Lock Nut, 5/16-18            |
| 6.   | 720-0284    | Wing Knob                           |
| 7.   | 731-04426A  | Upper Chute                         |
| 8.   | 736-0159    | Flat Washer, .349 x .879 x .063     |
| 9.   | 741-0475    | Plastic Bushing, .380 ID            |
| 10.  | 784-5647    | Chute Crank Bracket                 |
| 11.  | 684-04104   | Chute Crank Assembly                |
| 12.  | 710-0449    | Carriage Screw, 5/16-18 x 2.25      |
| 13.  | 710-04484   | Hex Washer Screw, 5/16-18 x .750    |
| 14.  | 712-3010    | Hex Nut, 5/16-18                    |
| 15.  | 714-0104    | Cotter Pin, .072 x 1.13             |
| 16.  | 720-0201A   | Chute Crank Knob                    |
| 17.  | 726-0100    | Push Rod Cap, 3/8                   |
| 18.  | 735-0234    | Rubber Grom., .44 ID x .94 OD x .50 |
| 19.  | 736-0185    | Flat Washer, .375 x .738 x .063     |
| 20.  | 747-0697    | Chute Crank Eye Bolt, .70           |
| 21.  | 749-04138A  | Lower Handle                        |
| 22.  | 749-04190A  | Upper Handle, RH                    |
| 23.  | 749-04191A  | Upper Handle, LH                    |
| 24.  | 731-04869   | Chute Flange Keeper                 |

# Drive System



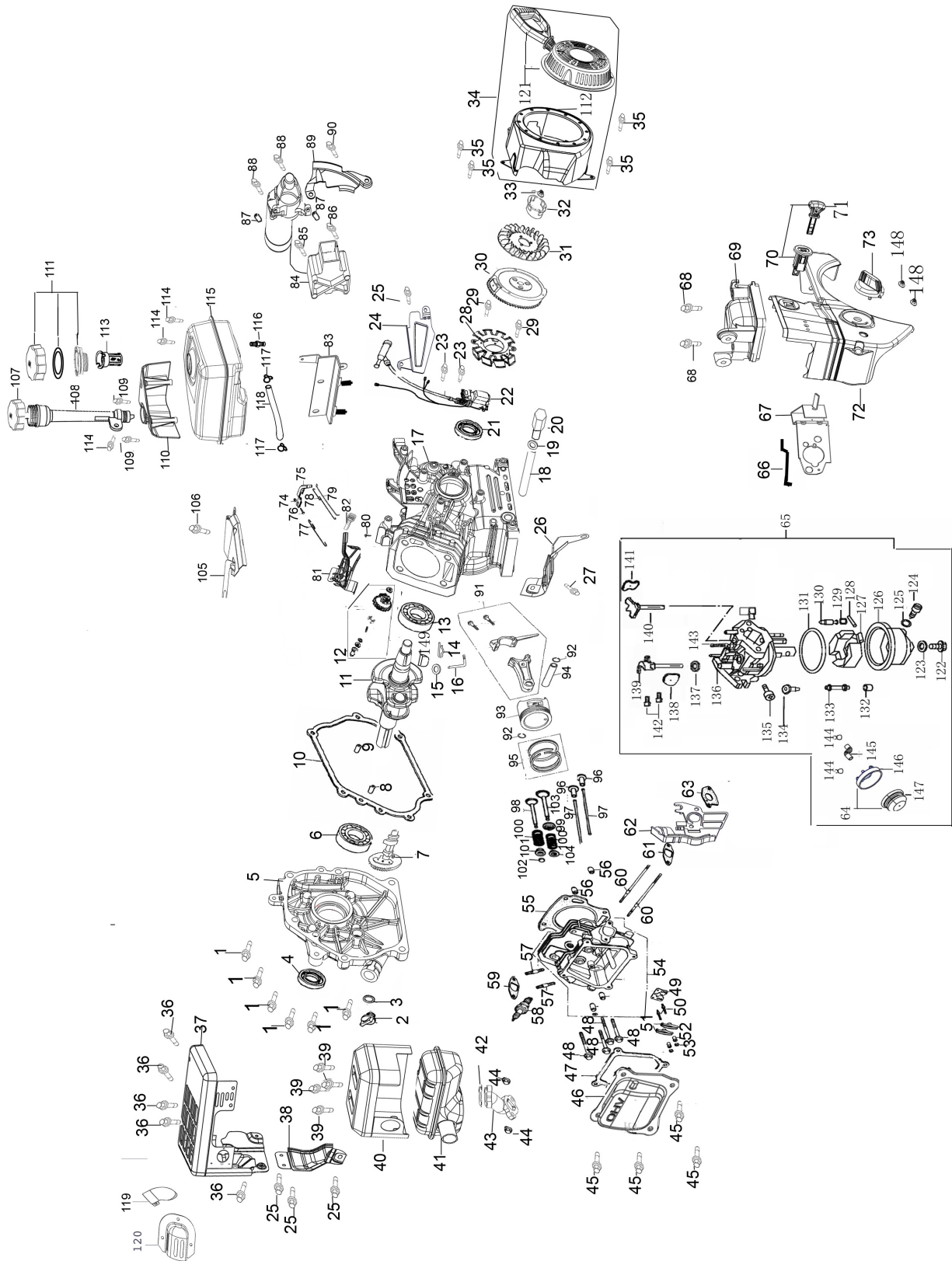
| Ref. | Part Number | Description                                     |
|------|-------------|-------------------------------------------------|
| 1.   | 634-04141   | Snow Hog Wheel, 16 x 4.8                        |
| —    | 634-04142A  | Snow Hog Wheel, 15 x 5                          |
| —    | 634-04144A  | Snow Hog Wheel, 13 x 4                          |
| 1A.  | 634-04145   | X-Trac Wheel, 16 x 4.8 x 8 (RH)                 |
| —    | 634-04146   | X-Trac Wheel, 16 x 4.8 x 8 (LH)                 |
| 2.   | 731-04873   | Spacer, 1.25 OD x .75 ID x 3.00                 |
| 3.   | 738-04168   | Axle, .75 x 22                                  |
| 4.   | 710-0627    | Hex Lock Screw, $\frac{5}{16}$ -24 x .750       |
| 5.   | 736-0242    | Bell Washer, .340 x .872 x .060                 |
| 6.   | 736-0287    | Flat Washer, .793 x 1.24 x .06                  |
| 7.   | 741-0245    | Hex Flange Bearing, .75 ID                      |
| 8.   | 716-0231    | E-Ring, .750                                    |
| 9.   | 741-0563    | Ball Bearing, 17 x 40 x 12                      |
| 10.  | 710-0788    | Hex Washer Screw, $\frac{1}{4}$ -20 x 1.000     |
| 11.  | 710-1652    | Hex Washer Screw, $\frac{1}{4}$ -20 x .625      |
| 12.  | 790-00096   | Auger Cable Guide Bracket                       |
| 13.  | 756-0625    | Cable Roller                                    |
| 14.  | 738-0924A   | Shoulder Screw, .340 x .335 x $\frac{1}{4}$ -28 |
| 15.  | 790-00206A  | Clutch Cable Guide Bracket                      |
| 16.  | 710-1652    | Hex Washer Screw, $\frac{1}{4}$ -20 x .625      |
| 17.  | 738-04184A  | Shoulder Screw, .368 x .113 x $\frac{1}{4}$ -20 |
| 18.  | 716-0136    | E-Ring, .875                                    |
| 19.  | 714-0126    | Hi-Pro Key, $\frac{3}{16}$ x $\frac{3}{4}$      |
| 20.  | 736-04161   | Flat Washer, .75 x 1.00 x .06                   |
| 21.  | 717-04230   | Gear, 80 Tooth                                  |
| 22.  | 717-04209A  | Hex Shaft, .8125 7 Tooth                        |
| 23.  | 684-04153   | Friction Wheel Assembly, 5.5 OD                 |
| 24.  | 656-04025A  | Friction Disc Assembly                          |
| 25.  | 790-00207B  | Drive Cable Guide Bracket                       |
| 26.  | 684-04154   | Friction Wheel Support Bracket                  |
| 27.  | 748-0190    | Spacer, .508 ID x .750 OD x .68                 |

| Ref. | Part Number | Description                                     |
|------|-------------|-------------------------------------------------|
| 28.  | 732-0264    | Extension Spring, .380 OD x 2.500               |
| 29.  | 712-0417A   | Flange Nut, $\frac{5}{8}$ -18                   |
| 30.  | 746-04229   | Wheel Drive Cable                               |
| 31.  | 790-00316   | Frame Cover                                     |
| 32.  | 726-0221    | Speed Nut, .500                                 |
| 33.  | 790-00180A  | Wheel Drive Frame                               |
| 34.  | 684-04156A  | Rod Shift Assembly                              |
| 35.  | 716-0104    | E-Ring                                          |
| 36.  | 732-04311   | Torsion Spring, .750 ID x .968                  |
| 37.  | 712-04065   | Flange Lock Nut, $\frac{3}{8}$ -16              |
| 38.  | 790-00218A  | Speed Selector Shift Bracket                    |
| 39.  | 790-00217A  | Speed Selector Pivot Bracket                    |
| 40.  | 736-3015    | Flat Washer, .469 x .875 x .105                 |
| 41.  | 710-04063   | Flange Lock Nut, $\frac{5}{16}$ -18             |
| 42.  | 710-0751    | Hex Screw, $\frac{1}{4}$ -20 x .620             |
| 43.  | 712-04064   | Flange Lock Nut, $\frac{1}{4}$ -20              |
| 44.  | 738-04184A  | Shoulder Screw, .368 x .113 x $\frac{1}{4}$ -20 |
| 45.  | 735-04099   | Plug, $\frac{3}{8}$ ID                          |
| 46.  | 735-04100   | Plug, $\frac{1}{2}$ ID                          |
| 47.  | 710-0654A   | Hex Washer Screw, $\frac{3}{8}$ -16 x 1.000     |
| 48.  | 736-0320    | Flat Wsh., .38 x 1.38 x .125 (Tec/B&S)          |
| 49.  | 748-04053A  | Pulley Adapter                                  |
| 50.  | 756-04109   | Auger Belt Pulley                               |
| 51.  | 736-0505    | Flat Washer, .34 x 1.50 x .150                  |
| 52.  | 710-1245B   | Hex Screw, $\frac{5}{16}$ -24 x .875            |
| 53.  | 710-0191    | Hex Screw, $\frac{3}{8}$ -24 x 1.25             |
| 54.  | 736-0247    | Flat Washer, .406 x 1.25 x .157                 |
| 55.  | 756-04113   | Pulley Half                                     |
| 56.  | 754-04050   | Belt                                            |
| 57.  | 750-04303   | Spacer, .875 ID x 1.185 OD                      |
| 58.  | 756-04252   | Pulley Half                                     |

## Drive System

| Ref. | Part Number | Description                            |
|------|-------------|----------------------------------------|
| 59.  | 754-0367    | V-Belt                                 |
| 60.  | 710-0809    | Hex Washer Screw, 1/4-20 x 1.250       |
| 61.  | 750-04571   | Shoulder Spacer, .260 x .785 x .538    |
| 62.  | 684-04169   | Idler Puller Assembly                  |
| 63.  | 710-0672    | Hex Screw, 5/16-24 x 1.25              |
| 64.  | 736-0119    | Lock Washer, 5/16                      |
| 65.  | 748-04112B  | Shlder. Spcr., .3175 ID x .500 x .0975 |
| 66.  | 790-00208C  | Wheel Drive Idler Bracket              |
| 67.  | 750-04477   | Spacer, .340 x .750 x .360             |
| 68.  | 732-04308A  | Torsion Spring, .850 ID x .333         |
| 69.  | 726-04012   | Push-on Nut, .25                       |
| 70.  | 710-1652    | Hex Washer Screw, 1/4-20 x .625        |
| 71.  | 731-05353   | Belt Cover                             |
| —    | 731-04792A  | Belt Cover                             |
| 72.  | 710-0627    | Hex Lock Screw, 5/16-24 x .750         |
| 73.  | 748-0234    | Shoulder Spacer                        |
| 74.  | 790-00289A  | Cover Plate                            |
| 75.  | 710-04022   | Hex Screw, 1.25 x 20 (ZS Engine)       |
| 76.  | 732-0705    | Cable Control Wire (ZS)                |
| 77.  | 736-0264    | Flat Washer, .330 x .630 x .0635 (ZS)  |
| 78.  | 710-0896    | Hex Washer Screw, 1/4-14 x .625        |
| 79.  | 790-00174   | Friction Wheel Plate                   |
| 80.  | 735-04054   | Friction Wheel                         |
| 81.  | 738-04164A  | Friction Disc Bearing Pin              |
| 82.  | 741-04098   | Ball Bearing, 30 x 55 x 13             |
| 83.  | 756-04177   | Friction Wheel Disc, .060 x 8.0        |
| —    | 618-0063A   | Bearing Assembly (Not Shown)           |

# 179/208 cc ZS 365/370-SUA Engine



| Part No.  | Description                 | Ref. No. |
|-----------|-----------------------------|----------|
| 751-10724 | Short Block Assembly        | —        |
|           | Bolt                        | 1        |
|           | Oil Filler Plug             | 2        |
|           | O-ring                      | 3        |
|           | Oil seal, 25 × 41.25 × 6    | 4        |
|           | Crankcase cover             | 5        |
|           | Radial Ball Bearing         | 6        |
|           | Camshaft Assembly           | 7        |
|           | Dowel Pin, 9 × 14           | 8        |
|           | Dowel Pin, 7 × 14           | 9        |
|           | Crankcase Cover Gasket      | 10       |
|           | Crankshaft Complete         | 11       |
|           | Governor Kit                | 12       |
|           | Radial Ball Bearing         | 13       |
|           | Pin Lock                    | 14       |
|           | O-ring, 5.2 × 1.9           | 15       |
|           | Governor Arm                | 16       |
|           | Crankcase                   | 17       |
|           | Oil-Draining Pipe           | 18       |
|           | Washer, 10 × 16 × 1.5       | 19       |
|           | Drain Bolt, 10 × 1.25       | 20       |
|           | Oil Seal, 25 × 41.25 × 6    | 21       |
|           | Cylinder Head Gasket        | 55       |
|           | Dowel Pin, 10 × 16          | 56       |
|           | Gasket Muffler              | 59       |
|           | Insulator Gasket Carburetor | 61       |
|           | Insulator Carburetor        | 62       |
|           | Connecting Rod Assembly     | 91       |
|           | Piston Pin Clip             | 92       |
|           | Piston                      | 93       |
|           | Pin Piston                  | 94       |

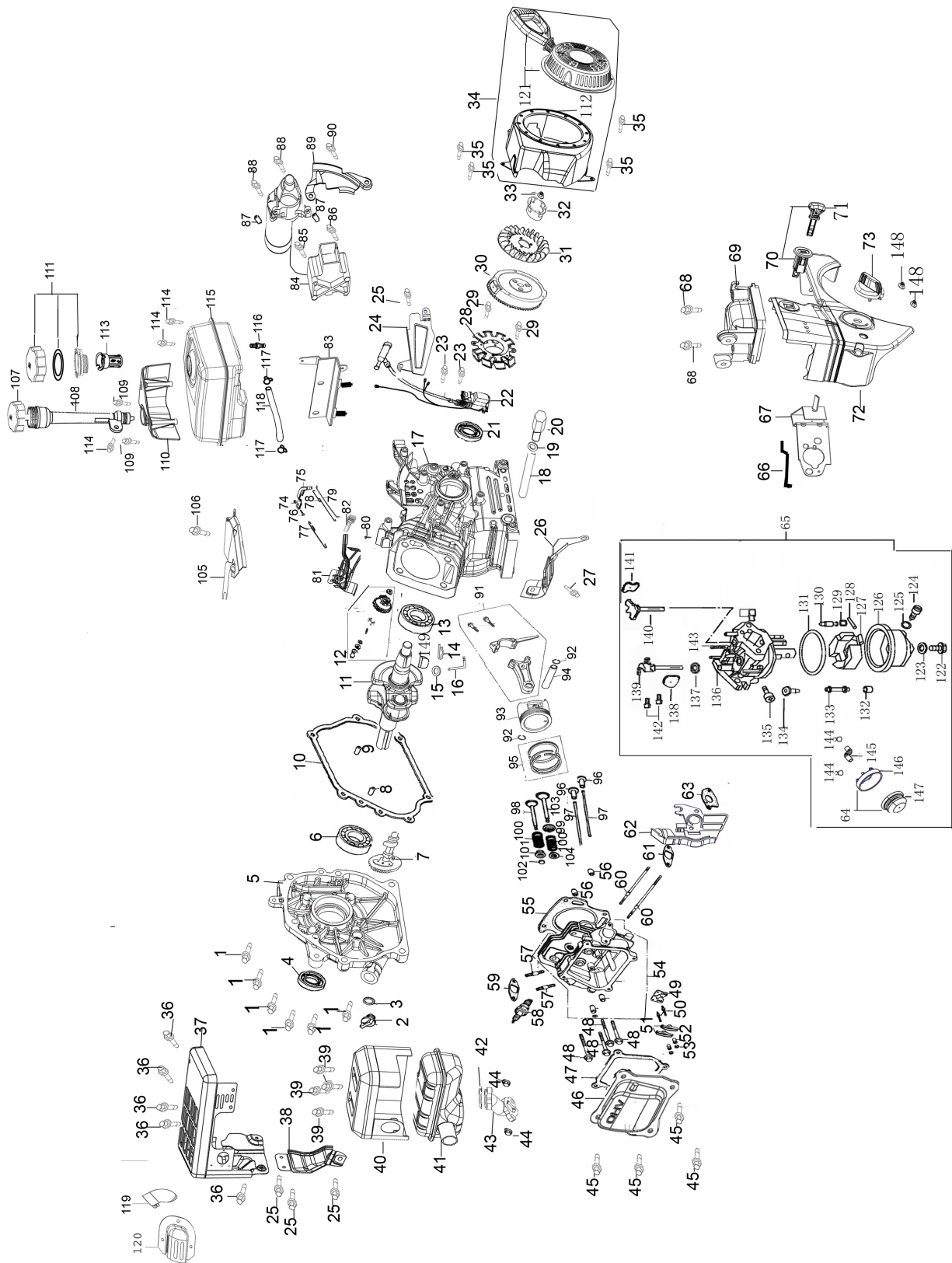
| Part No.  | Description                    | Ref. No. |
|-----------|--------------------------------|----------|
| 751-10722 | Cylinder Head Assembly         | —        |
|           | Valve Cover Gasket             | 47       |
|           | Plate Push Rod Guide           | 49       |
|           | Pivot Bolt                     | 50       |
|           | Rocker Arm                     | 51       |
|           | Valve Adjusting Nut            | 52       |
|           | Pivot Locking Nut              | 53       |
|           | Cylinder Head Complete         | 54       |
|           | Cylinder Head Gasket           | 55       |
|           | Gasket Muffler                 | 59       |
|           | Exhaust Valve                  | 98       |
|           | Valve Seal                     | 99       |
|           | Spring Valve                   | 100      |
|           | Exhaust Valve Spring Retainer  | 101      |
|           | Exhaust Valve Adjuster         | 102      |
|           | Intake Valve                   | 103      |
|           | Internal Valve Spring Retainer | 104      |
| 751-10723 | Gasket Kit - Complete          | —        |
|           | Crankcase Cover Gasket         | 10       |
|           | O-ring, 5.2 × 1.9              | 15       |
|           | Oil-Draining Pipe              | 18       |
|           | Washer, 10 × 16 × 1.5          | 19       |
|           | Drain Bolt, 10 × 1.25          | 20       |
|           | Oil Seal, 25 × 41.25 × 6       | 21       |
|           | Gasket                         | 42       |
|           | Valve Cover Gasket             | 47       |
|           | Cylinder Head Gasket           | 55       |
|           | Gasket Muffler                 | 59       |
|           | Carburetor Insulator Gasket    | 61       |
|           | Carburetor Insulator           | 62       |
|           | Carburetor Gasket              | 63       |
|           | Push Rod                       | 97       |
|           | Exhaust Valve                  | 98       |
|           | Intake Valve                   | 103      |

## 179/208 cc ZS 365/370-SUA Engine

| Part No.  | Description                   | Ref. No.   | Part No.    | Description                   | Ref. No. |
|-----------|-------------------------------|------------|-------------|-------------------------------|----------|
| 751-10952 | Gasket Kit - External         | —          | 751-10911   | Starter Cup                   | 32       |
|           | Valve Cover Gasket            | 47         | 751-10642A  | Muffler Shroud                | 37       |
|           | Gasket Muffler                | 59         | 751-10643   | Muffler Shield                | 40       |
|           | Carburetor Insulator Gasket   | 61         | 751-10644   | Muffler Complete Exhaust Pipe | 41, 43   |
|           | Carburetor Insulator          | 62         | 751-10666   | Gasket                        | 42       |
|           | Gasket Carburetor             | 63         | 751-10657   | Muffler Stud Assembly, 8 × 34 | 57       |
| 751-10974 | Carburetor Assembly (365-SUA) | 65         | 751-10292   | Spark Plug                    | 58       |
| 751-10638 | Carburetor Assembly (370-SUA) | 65         | 751-10640   | Choke Push Rod                | 66       |
|           | Fuel Drain Plug               | 122        | 751-10635   | Air Filter Heating Pipe Cover | 69       |
|           | Fuel Cup Fixed Bolt Packing   | 123        | 751-10637   | Key Switch                    | 70       |
|           | Fuel Drain Plug               | 124        | 751-10630   | Key                           | 71       |
|           | Fuel Drain Plug Gasket        | 125        | 751-10634   | Shroud                        | 72       |
|           | Fuel Cup                      | 126        | 751-10636   | Choke Knob                    | 73       |
|           | Float                         | 127        | 751-10654   | Spring Governor               | 77       |
|           | Floating Pin                  | 128        | 751-10664   | Spring Throttle Return        | 78       |
|           | Needle Valve Spring           | 129        | 751-10665   | Rod Governor                  | 79       |
|           | Needle Valve                  | 130        | 751-10758   | Throttle Control Assembly     | 81       |
|           | O-ring Packing                | 131        | 751-10757   | Throttle Control Knob         | 82       |
|           | Main Jet                      | 132        | 751-10645A  | Electric Starter, 110v        | 84       |
|           | Main Nozzle                   | 133        | 751-10648   | Push Rod Kit                  | 97       |
|           | Idle Jet Assembly             | 134        |             | Valve Kit                     | 98, 103  |
|           | Idle Speed Adjusting Screw    | 135        | 751-10647   | Dipstick                      | 107      |
|           | Carburetor Body               | 136        | 751-10655   | Dipstick Base                 | 108      |
|           | Fiber Seal                    | 137        | 751-10662   | Dipstick Decoration Cover     | 110      |
|           | Choke Plate                   | 138        | 751-10649   | Fuel Tank Cap                 | 111      |
|           | Throttle Shaft                | 139        | 751-10663A  | Blower Housing                | 112      |
|           | Choke Plate                   | 140        | 751-10652   | Fuel Filter                   | 113      |
|           | Choke Shaft                   | 141        | 751-10653A  | Fuel Tank                     | 115      |
|           | Cross Screw                   | 142        | 751-10651   | Nipple Fuel Tank              | 116      |
|           | Position Spring               | 143        | 751-10650   | Fuel Line Kit                 | 117, 118 |
|           | Clip                          | 144        | 751-10658   | Recoil Starter Assembly       | 121      |
|           | Fuel Hose                     | 145        |             | Starter Handle                | —        |
|           | Primer Base                   | 146        | 751-10639   | Primer                        | 147      |
|           | Primer Bulb                   | 147        | 751-10307   | Woodruff Key                  | 149      |
| 751-10641 | Oil Drain Assembly            | 18, 19, 20 | 952Z370-SUA | Complete 370-SUA Engine       | —        |
| 751-10646 | Ignition Module               | 22         | 952Z365-SUA | Complete 365-SUA Engine       | —        |
| 751-10719 | Stator                        | 28         |             |                               |          |
| 751-10805 | Flywheel                      | 30         |             |                               |          |
| 751-10909 | Cooling Fan                   | 31         |             |                               |          |



# 179 cc ZS 165-SU Engine





| Part No.  | Description                 | Ref. No. |
|-----------|-----------------------------|----------|
| 751-10724 | Short Block Assembly        | —        |
|           | Bolt                        | 1        |
|           | Oil Filler Plug             | 2        |
|           | O-ring                      | 3        |
|           | Oil seal, 25 × 41.25 × 6    | 4        |
|           | Crankcase cover             | 5        |
|           | Radial Ball Bearing         | 6        |
|           | Camshaft Assembly           | 7        |
|           | Dowel Pin, 9 × 14           | 8        |
|           | Dowel Pin, 7 × 14           | 9        |
|           | Crankcase Cover Gasket      | 10       |
|           | Crankshaft Complete         | 11       |
|           | Governor Kit                | 12       |
|           | Radial Ball Bearing         | 13       |
|           | Pin Lock                    | 14       |
|           | O-ring, 5.2 × 1.9           | 15       |
|           | Governor Arm                | 16       |
|           | Crankcase                   | 17       |
|           | Oil-Draining Pipe           | 18       |
|           | Washer, 10 × 16 × 1.5       | 19       |
|           | Drain Bolt, 10 × 1.25       | 20       |
|           | Oil Seal, 25 × 41.25 × 6    | 21       |
|           | Cylinder Head Gasket        | 55       |
|           | Dowel Pin, 10 × 16          | 56       |
|           | Gasket Muffler              | 59       |
|           | Insulator Gasket Carburetor | 61       |
|           | Insulator Carburetor        | 62       |
|           | Connecting Rod Assembly     | 91       |
|           | Piston Pin Clip             | 92       |
|           | Piston                      | 93       |
|           | Pin Piston                  | 94       |

| Part No.  | Description                    | Ref. No. |
|-----------|--------------------------------|----------|
| 751-10722 | Cylinder Head Assembly         | —        |
|           | Valve Cover Gasket             | 47       |
|           | Plate Push Rod Guide           | 49       |
|           | Pivot Bolt                     | 50       |
|           | Rocker Arm                     | 51       |
|           | Valve Adjusting Nut            | 52       |
|           | Pivot Locking Nut              | 53       |
|           | Cylinder Head Complete         | 54       |
|           | Cylinder Head Gasket           | 55       |
|           | Gasket Muffler                 | 59       |
|           | Exhaust Valve                  | 98       |
|           | Valve Seal                     | 99       |
|           | Spring Valve                   | 100      |
|           | Exhaust Valve Spring Retainer  | 101      |
|           | Exhaust Valve Adjuster         | 102      |
|           | Intake Valve                   | 103      |
|           | Internal Valve Spring Retainer | 104      |
| 751-10723 | Gasket Kit - Complete          | —        |
|           | Crankcase Cover Gasket         | 10       |
|           | O-ring, 5.2 × 1.9              | 15       |
|           | Oil-Draining Pipe              | 18       |
|           | Washer, 10 × 16 × 1.5          | 19       |
|           | Drain Bolt, 10 × 1.25          | 20       |
|           | Oil Seal, 25 × 41.25 × 6       | 21       |
|           | Gasket                         | 42       |
|           | Valve Cover Gasket             | 47       |
|           | Cylinder Head Gasket           | 55       |
|           | Gasket Muffler                 | 59       |
|           | Carburetor Insulator Gasket    | 61       |
|           | Carburetor Insulator           | 62       |
|           | Carburetor Gasket              | 63       |
|           | Push Rod                       | 97       |
|           | Exhaust Valve                  | 98       |
|           | Intake Valve                   | 103      |

## 179 cc ZS 165-SU Engine

| Part No.  | Description                 | Ref. No.   | Part No.   | Description                   | Ref. No. |
|-----------|-----------------------------|------------|------------|-------------------------------|----------|
| 751-10952 | Gasket Kit - External       | —          | 751-10911  | Starter Cup                   | 32       |
|           | Valve Cover Gasket          | 47         | 751-10642A | Muffler Shroud                | 37       |
|           | Gasket Muffler              | 59         | 751-10643  | Muffler Shield                | 40       |
|           | Carburetor Insulator Gasket | 61         | 751-10644  | Muffler Complete Exhaust Pipe | 41, 43   |
|           | Carburetor Insulator        | 62         | 751-10666  | Gasket                        | 42       |
|           | Gasket Carburetor           | 63         | 751-10657  | Muffler Stud Assembly, 8 × 34 | 57       |
| 751-10974 | Carburetor Assembly         | 65         | 751-10292  | Spark Plug                    | 58       |
|           | Fuel Drain Plug             | 122        | 751-10640  | Choke Push Rod                | 66       |
|           | Fuel Cup Fixed Bolt Packing | 123        | 751-10635  | Air Filter Heating Pipe Cover | 69       |
|           | Fuel Drain Plug             | 124        | 751-10637  | Key Switch                    | 70       |
|           | Fuel Drain Plug Gasket      | 125        | 751-10630  | Key                           | 71       |
|           | Fuel Cup                    | 126        | 751-10634  | Shroud                        | 72       |
|           | Float                       | 127        | 751-10636  | Choke Knob                    | 73       |
|           | Floating Pin                | 128        | 751-10654  | Spring Governor               | 77       |
|           | Needle Valve Spring         | 129        | 751-10664  | Spring Throttle Return        | 78       |
|           | Needle Valve                | 130        | 751-10665  | Rod Governor                  | 79       |
|           | O-ring Packing              | 131        | 751-10758  | Throttle Control Assembly     | 81       |
|           | Main Jet                    | 132        | 751-10757  | Throttle Control Knob         | 82       |
|           | Main Nozzle                 | 133        | 751-10648  | Push Rod Kit                  | 97       |
|           | Idle Jet Assembly           | 134        | 751-10647  | Valve Kit                     | 98, 103  |
|           | Idle Speed Adjusting Screw  | 135        | 751-10655  | Dipstick                      | 107      |
|           | Carburetor Body             | 136        | 751-10656  | Dipstick Base                 | 108      |
|           | Fiber Seal                  | 137        | 751-10662  | Dipstick Decoration Cover     | 110      |
|           | Choke Plate                 | 138        | 751-10649  | Fuel Tank Cap                 | 111      |
|           | Throttle Shaft              | 139        | 751-10663A | Blower Housing                | 112      |
|           | Choke Plate                 | 140        | 751-10652  | Fuel Filter                   | 113      |
|           | Choke Shaft                 | 141        | 751-10653A | Fuel Tank                     | 115      |
|           | Cross Screw                 | 142        | 751-10651  | Nipple Fuel Tank              | 116      |
|           | Position Spring             | 143        | 751-10650  | Fuel Line Kit                 | 117, 118 |
|           | Clip                        | 144        | 751-10658  | Recoil Starter Assembly       | 121      |
|           | Fuel Hose                   | 145        |            | Starter Handle                | —        |
|           | Primer Base                 | 146        | 751-10639  | Primer                        | 147      |
|           | Primer Bulb                 | 147        | 751-10307  | Woodruff Key                  | 149      |
| 751-10641 | Oil Drain Assembly          | 18, 19, 20 | 952Z165-SU | Complete 165-SU Engine        | —        |
| 751-10805 | Flywheel                    | 30         |            |                               |          |
| 751-10909 | Cooling Fan                 | 31         |            |                               |          |