



## 1028 Power Shift<sup>®</sup> Snowthrower

Model No. 38559-240000001 and Up

### Parts Catalog

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#### Ordering Replacement Parts

To order replacement parts, please supply: the part number, the quantity, and the description of each part desired.

#### Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

#### Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form **a:b**. The **a** represents the reference number of the entire service assembly and the **b** represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number **6**, the tire by **6:1**, the valve by **6:2**, and the wheel by **6:3**. When you order the assembly identified by reference number **6**, you receive all parts identified by reference numbers **6:1**, **6:2**, and **6:3**. However, you may also order any part individually.

Reference numbers of this type appear in illustrations and in part lists.

#### Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form **nX y**. The **n** represents the quantity of the part, the **X** is the multiplication symbol, and the **y** represents the reference number.

For example, in an illustration, the reference number **2X 37** means that two of the parts identified by reference number **37** are indicated.

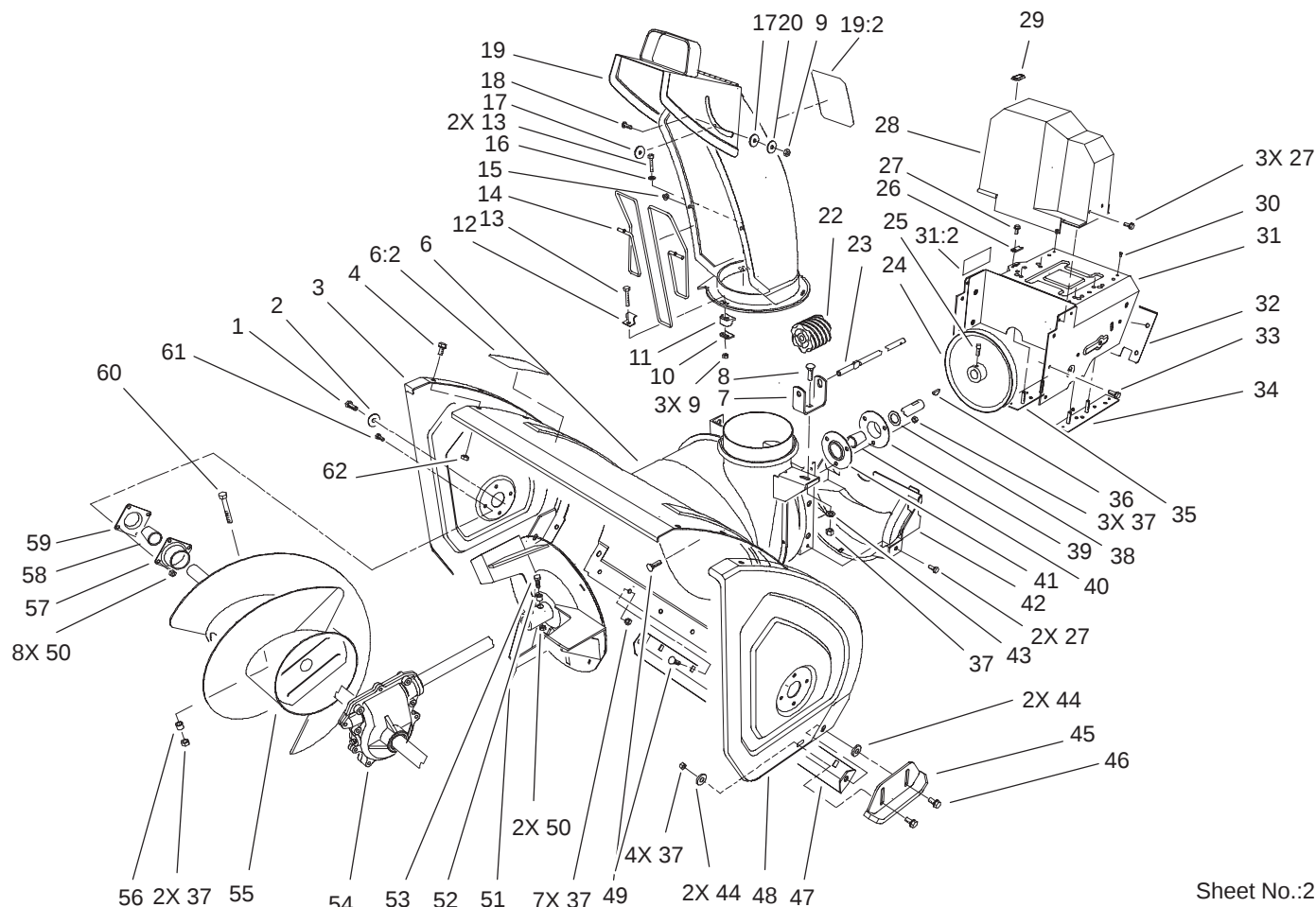
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## Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

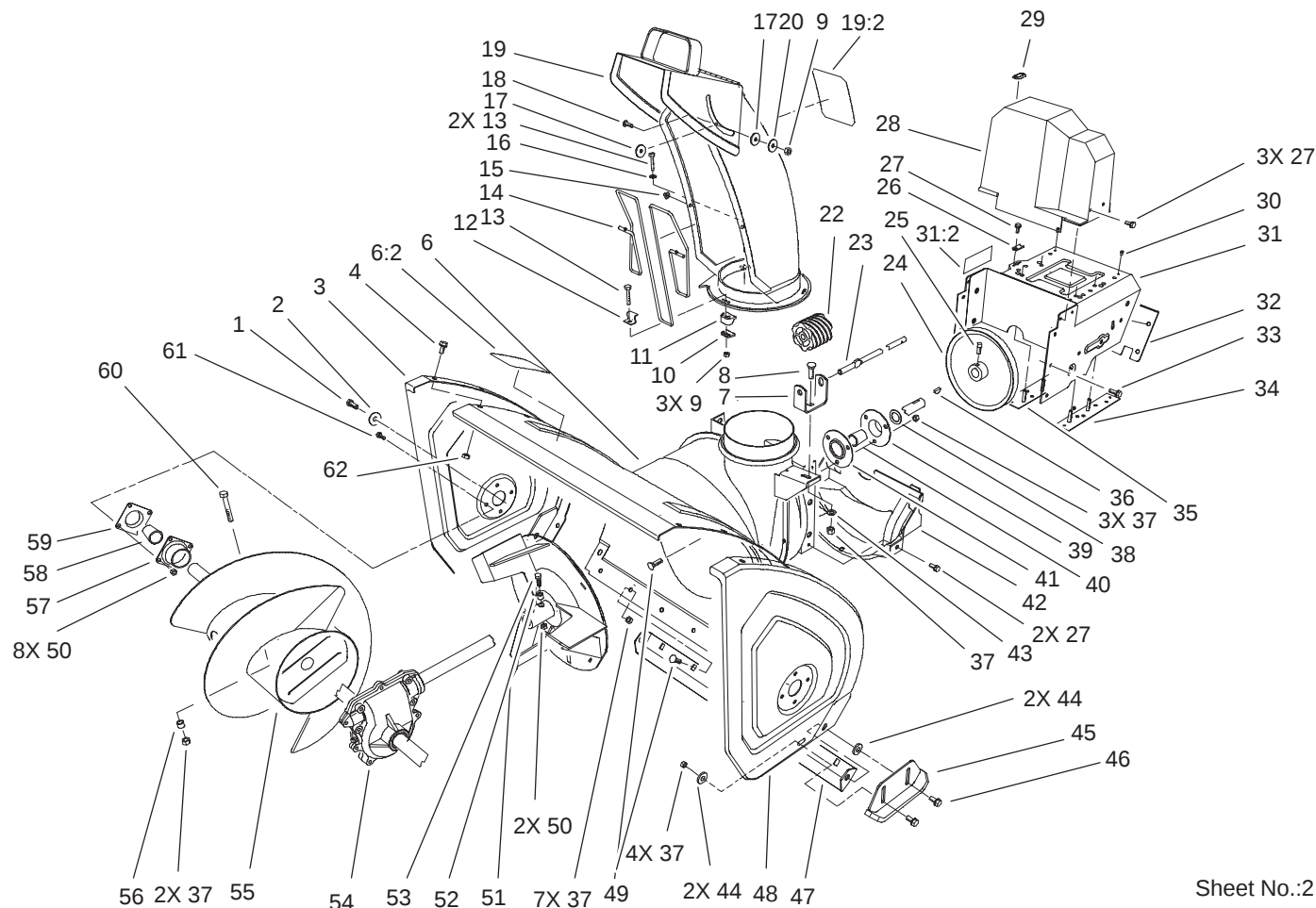
| <b>Abbreviation</b> | <b>Meaning</b>                    | <b>Abbreviation</b> | <b>Meaning</b>          |
|---------------------|-----------------------------------|---------------------|-------------------------|
| AR . . . . .        | as required                       | HYD . . . . .       | hydraulic               |
| ASM . . . . .       | assembly                          | INC . . . . .       | incorporated            |
| CARR . . . . .      | carriage                          | LH . . . . .        | left hand               |
| DEG . . . . .       | degrees                           | NI . . . . .        | nylon insert            |
| FH . . . . .        | flat head                         | PPH . . . . .       | Phillips pan head       |
| GA . . . . .        | gauge                             | PTH . . . . .       | Phillips truss head     |
| HF . . . . .        | hex flange                        | PTO . . . . .       | power take off          |
| HH . . . . .        | hex head                          | RH . . . . .        | right hand              |
| HHF . . . . .       | hex head flange                   | SFH . . . . .       | slotted fillister head  |
| HLH . . . . .       | hex lag head                      | SHH . . . . .       | slotted hex head        |
| HJ . . . . .        | hex jam                           | SQH . . . . .       | square head             |
| HOC . . . . .       | height-of-cut                     | SHWH . . . . .      | slotted hex washer head |
| HS . . . . .        | hex socket                        | SPH . . . . .       | slotted pan head        |
| HSBH . . . . .      | hex socket button head            | SRH . . . . .       | slotted round head      |
| HSFH . . . . .      | hex socket flat head              | STD . . . . .       | standard                |
| HSH . . . . .       | hex socket head                   | TAP . . . . .       | self tapping            |
| HWH . . . . .       | hex washer head                   | TTH . . . . .       | Torx truss head         |
| HWHTF . . . . .     | hex washer head<br>thread forming | WH . . . . .        | wing head               |



Sheet No.:2

## Housing and Engine Frame Assembly

| Ref. No. | Part No.   | Qty. | Description           | Ref. No. | Part No.   | Qty. | Description         |
|----------|------------|------|-----------------------|----------|------------|------|---------------------|
| 1        | 323-4      | 2    | Screw-HH              | 27       | 32144-4    | 6    | Screw-HWH           |
| 2        | 3-0750     | 2    | Washer                | 28       | 63-2080    | 1    | Cover-Belt, Upper   |
| 3        | 66-7821-01 | 1    | Plate-Side, RH        | 29       | 63-3290    | 1    | Cover-Cable         |
| 4        | 3234-28    | 12   | Screw-HHF             | 30       | 3269-23    | 4    | Rivet-Pop           |
| 6        | 100-5456   | 1    | Auger Housing ASM     | 31       | 100-5451   | 1    | Engine Frame ASM    |
| 6:2      | 94-2568    | 1    | Decal-Warning, Auger  | 31:2     | 94-2575    | 1    | Decal-Adjustment    |
| 7        | 63-2180    | 1    | Bracket-Worm, Chute   | 32       | 62-1440-01 | 1    | Cover-Frame, Engine |
| 8        | 3230-2     | 1    | Bolt-CARR             | 33       | 32144-14   | 6    | Screw-HWH           |
| 9        | 3296-2     | 4    | Nut-Lock              | 34       | 68-4110    | 1    | LH Frame Plate ASM  |
| 10       | 63-2670    | 3    | Plate-Retainer, Chute | 35       | 68-4100    | 1    | RH Frame Plate ASM  |
| 11       | 62-1430    | 3    | Retainer-Chute        | 36       | 3257-23    | 1    | Key-Woodruff        |
| 12       | 63-3130    | 1    | Clip-Guard, Chute     | 37       | 3296-29    | 17   | Nut-Lock, NI        |
| 13       | 3274-13    | 3    | Screw-HSH             | 38       | 252-80     | 1    | Washer-Thrust       |
| 14       | 63-3020    | 1    | Guard-Chute           | 39       | 26-6110    | 1    | Flange-Cup, Bearing |
| 15       | 3290-326   | 2    | Nut-Push              | 40       | 63-3450    | 1    | Bearing-Ball        |
| 16       | 3256-14    | 1    | Washer-Flat           | 41       | 26-6120    | 1    | Flange-Cup, Bearing |
| 17       | 63-2900    | 2    | Washer-Plastic        | 42       | 68-8410    | 1    | Cover-Belt, Lower   |
| 18       | 32122-32   | 1    | Screw                 | 43       | 3256-23    | 1    | Washer-Flat         |
| 19       | 95-2662    | 1    | Chute                 | 44       | 52-2861    | 4    | Washer              |
| 19:2     | 94-2559    | 1    | Decal - Danger        | 45       | 74-1440-01 | 2    | Skid ASM            |
| 20       | 3256-61    | 1    | Washer-Flat           | 46       | 3234-5     | 4    | Screw               |
| 22       | 62-0820    | 1    | Gear-Worm             | 47       | 66-7761-01 | 1    | Blade-Scraper       |
| 23       | 62-1720    | 1    | Rod-Chute, Lower      | 48       | 66-7831-01 | 1    | Plate-Side, LH      |
| 24       | 62-1300    | 1    | Pulley-Impeller       | 49       | 3230-23    | 10   | Screw-CARR          |
| 25       | 3242-4     | 2    | Screw-Set, SQH        | 50       | 3296-42    | 10   | Nut-Lock, NI        |
| 26       | 63-2300    | 1    | Retainer-Cable        | 51       | 66-7920-03 | 1    | Impeller-4 Blade    |

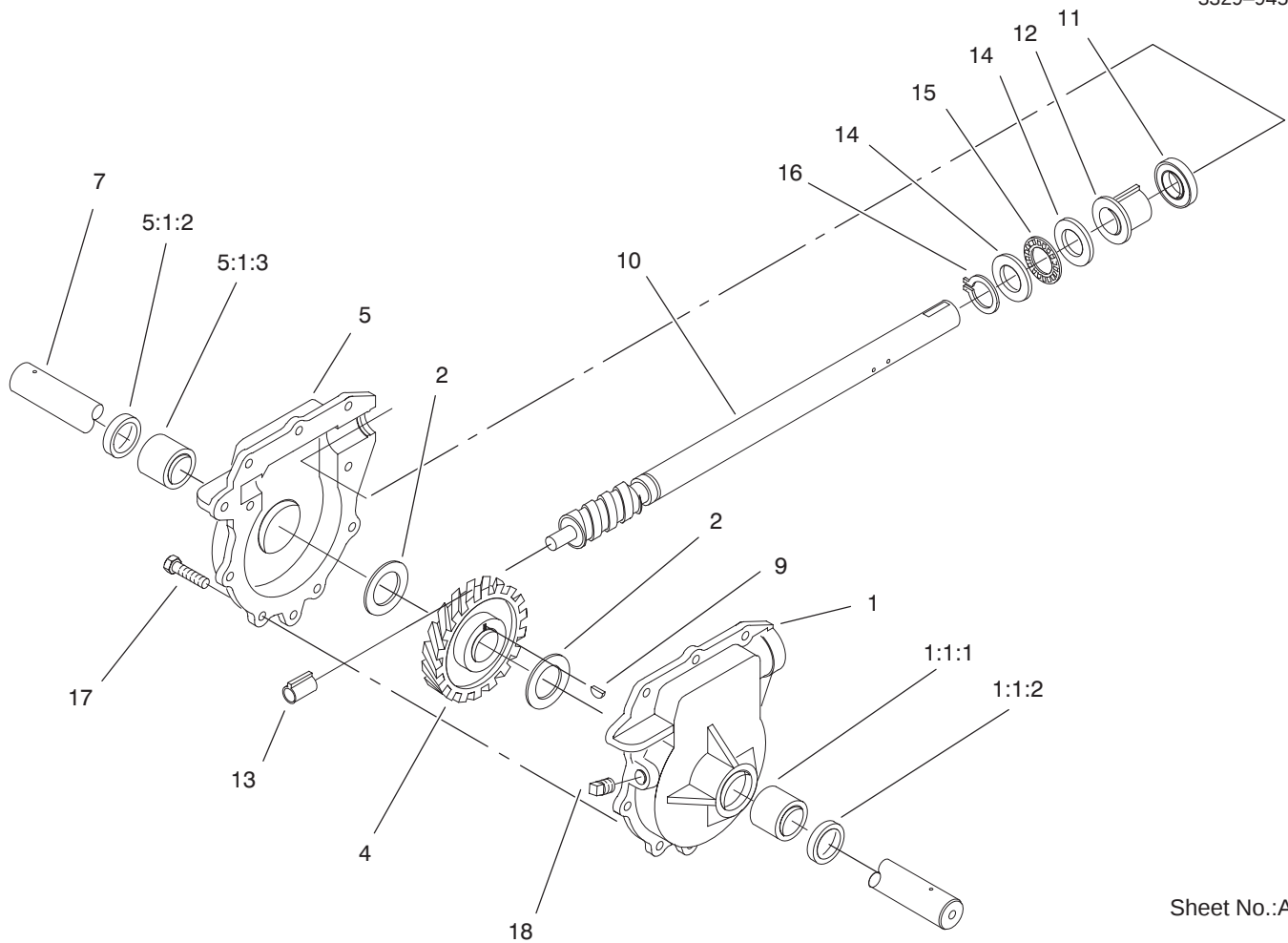


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Housing and Engine Frame Assembly(continued)

| Ref. No. | Part No.   | Qty. | Description                | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|----------------------------|----------|----------|------|-------------|
| 52       | 66-8010    | 2    | Spacer-Hub, Impeller       |          |          |      |             |
| 53       | 321-44     | 2    | Screw-HHF                  |          |          |      |             |
| 54       | 74-1561    | 1    | 28in Auger Gearcase<br>ASM |          |          |      |             |
| *55      | 68-7461-03 | 1    | Auger-LH                   |          |          |      |             |
| 55       | 68-7451-03 | 1    | Auger-RH                   |          |          |      |             |
| 56       | 25-5090    | 2    | Spacer-Hub, Auger          |          |          |      |             |
| 57       | 20-0990    | 2    | Bearing-Flange, Front      |          |          |      |             |
| 58       | 20-0980    | 2    | Bearing                    |          |          |      |             |
| 59       | 20-1000    | 2    | Bearing-Flange, Rear       |          |          |      |             |
| 60       | 322-12     | 2    | Screw-HH                   |          |          |      |             |
| 61       | 321-3      | 8    | Screw-HH                   |          |          |      |             |
| 62       | 3296-47    | 12   | Nut-Lock, NI               |          |          |      |             |

\* Not illustrated

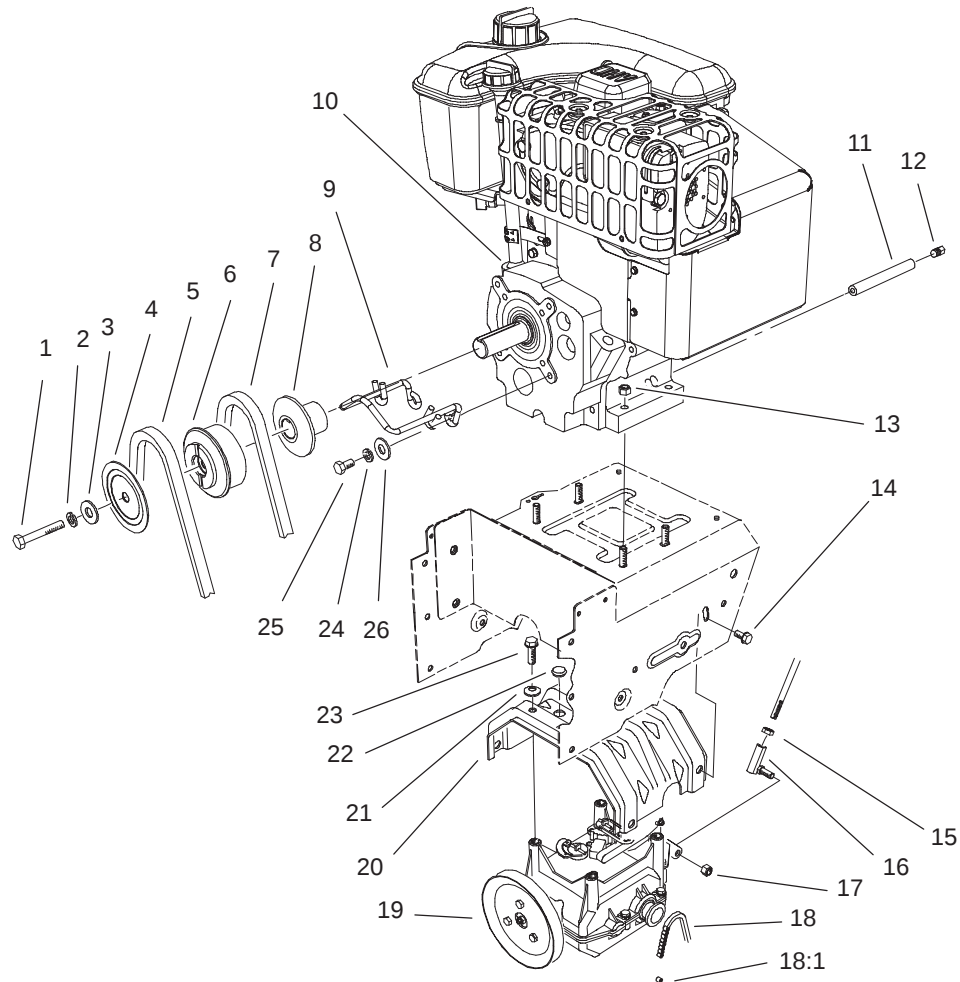


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## 28in Auger Gearcase Assembly Part No. 74-1561

| Ref. No. | Part No.  | Qty. | Description              |
|----------|-----------|------|--------------------------|
| 1        | 74-1570   | 1    | LH Auger Gearcase<br>ASM |
| 1:1:1    | 256-237   | 1    | Bushing                  |
| 1:1:2    | 7-0045    | 1    | Oil Seal                 |
| 2        | 252-71    | 2    | Washer-Thrust            |
| 4        | 62-0120   | 1    | Gear-Helical             |
| 5        | 74-1580   | 1    | RH Auger Gearcase<br>ASM |
| 5:1:2    | 7-0045    | 1    | Oil Seal                 |
| 5:1:3    | 256-237   | 1    | Bushing                  |
| 7        | 62-1531   | 1    | 28" Auger Shaft          |
| 9        | 3257-10   | 1    | Key-Woodruff             |
| 10       | 66-7811   | 1    | Shaft-Impeller           |
| 11       | 253-149   | 1    | Seal-Oil                 |
| 12       | 37-6560   | 1    | Bushing-Input            |
| 13       | 62-1150   | 1    | Bushing-Worm             |
| 14       | 252-78    | 2    | Bearing-Thrust           |
| 15       | 252-76    | 1    | Bearing-Thrust           |
| 16       | 32151-33  | 1    | Ring-Retaining, Ext.     |
| 17       | 32144-110 | 9    | Screw-HWH                |
| 18       | 281-1     | 1    | Plug-Pipe, SQH           |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
|          |          |      |             |



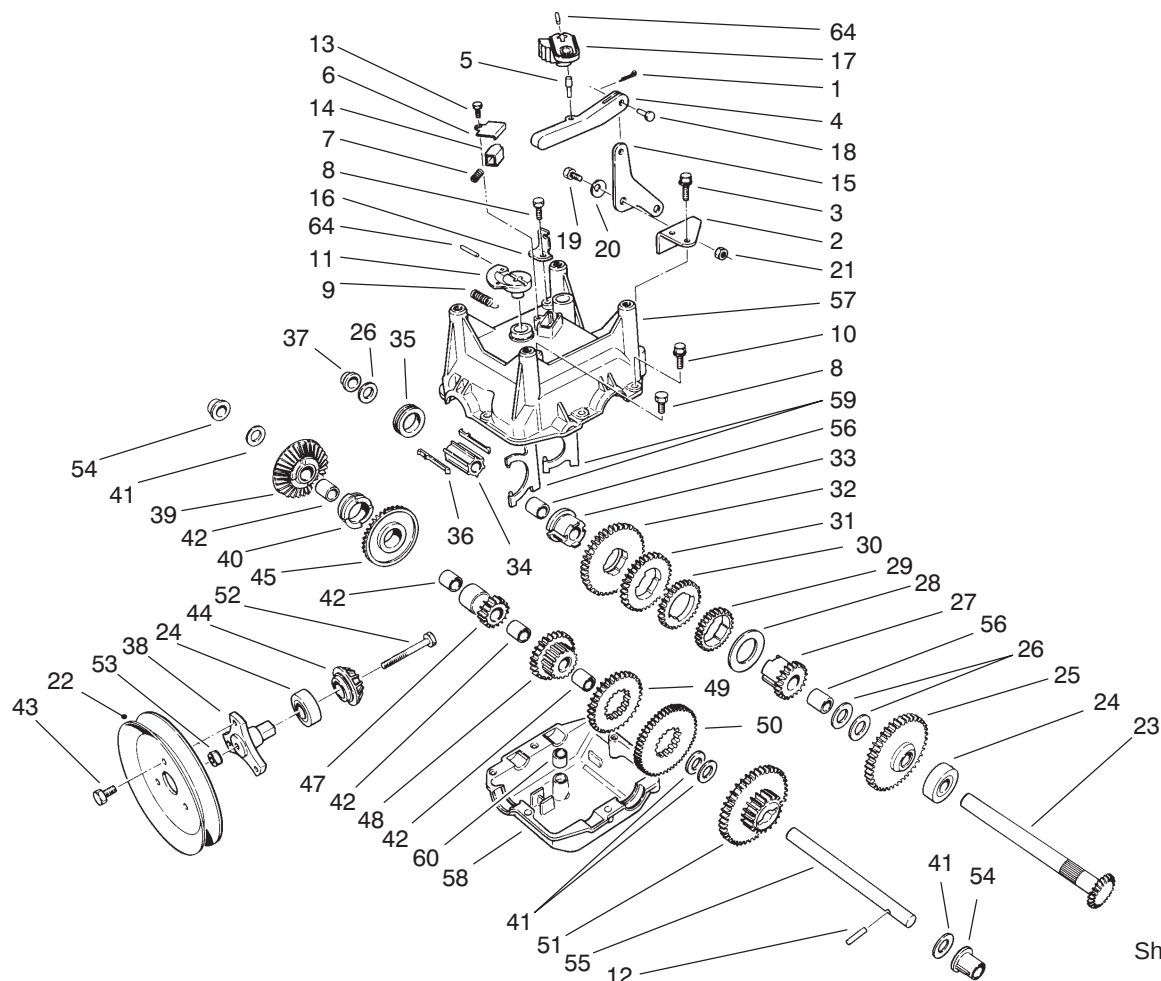
Sheet No.:3

## Engine and Transmission Assembly

| Ref. No. | Part No.   | Qty. | Description                                 |
|----------|------------|------|---------------------------------------------|
| 1        | 3212-8     | 1    | Screw-HH                                    |
| 2        | 3253-6     | 1    | Washer-Lock                                 |
| 3        | 3256-41    | 1    | Washer-Flat                                 |
| 4        | 62-0940    | 1    | Sheave-Half, Impeller                       |
| 5        | 63-2962    | 1    | V-Belt                                      |
| 6        | 62-0930    | 1    | Pulley-Engine, Center                       |
| 7        | 63-2951    | 1    | V-Belt, Traction                            |
| 8        | 62-0920    | 1    | Sheave-Half, Traction                       |
| 9        | 100-3432   | 1    | Guide-Belt                                  |
| ★10      |            | 1    | Engine-10hp<br>Tecumseh Ohsk<br>100-221607d |
| 11       | 289-34     | 1    | Nipple-Pipe                                 |
| 12       | 288-2      | 1    | Cap-Pipe                                    |
| 13       | 32128-20   | 4    | Nut-HF                                      |
| 14       | 3234-7     | 4    | Screw-HHF                                   |
| 15       | 3220-3     | 1    | Nut-Jam                                     |
| 16       | 78-2920    | 1    | Ball-Joint                                  |
| 17       | 3296-6     | 1    | Nut-Lock, NI                                |
| 18       | 63-2930    | 1    | Chain                                       |
| 18:1     | 2710-15    | 1    | Link-Offset                                 |
| 19       | 66-8030    | 1    | Traction Gearcase<br>ASM                    |
| 20       | 63-2990-03 | 1    | Transmission Frame<br>ASM                   |
| 21       | 3290-461   | 4    | Washer-Spring                               |

| Ref. No. | Part No. | Qty. | Description            |
|----------|----------|------|------------------------|
| 22       | 95-7947  | 2    | Cap-Plug               |
| 23       | 11-0590  | 4    | Screw-HWH, Thd<br>Form |
| 24       | 3253-4   | 2    | Washer-Lock            |
| 25       | 3210-3   | 2    | Screw-HH               |
| 26       | 3256-41  | 2    | Washer-Flat            |

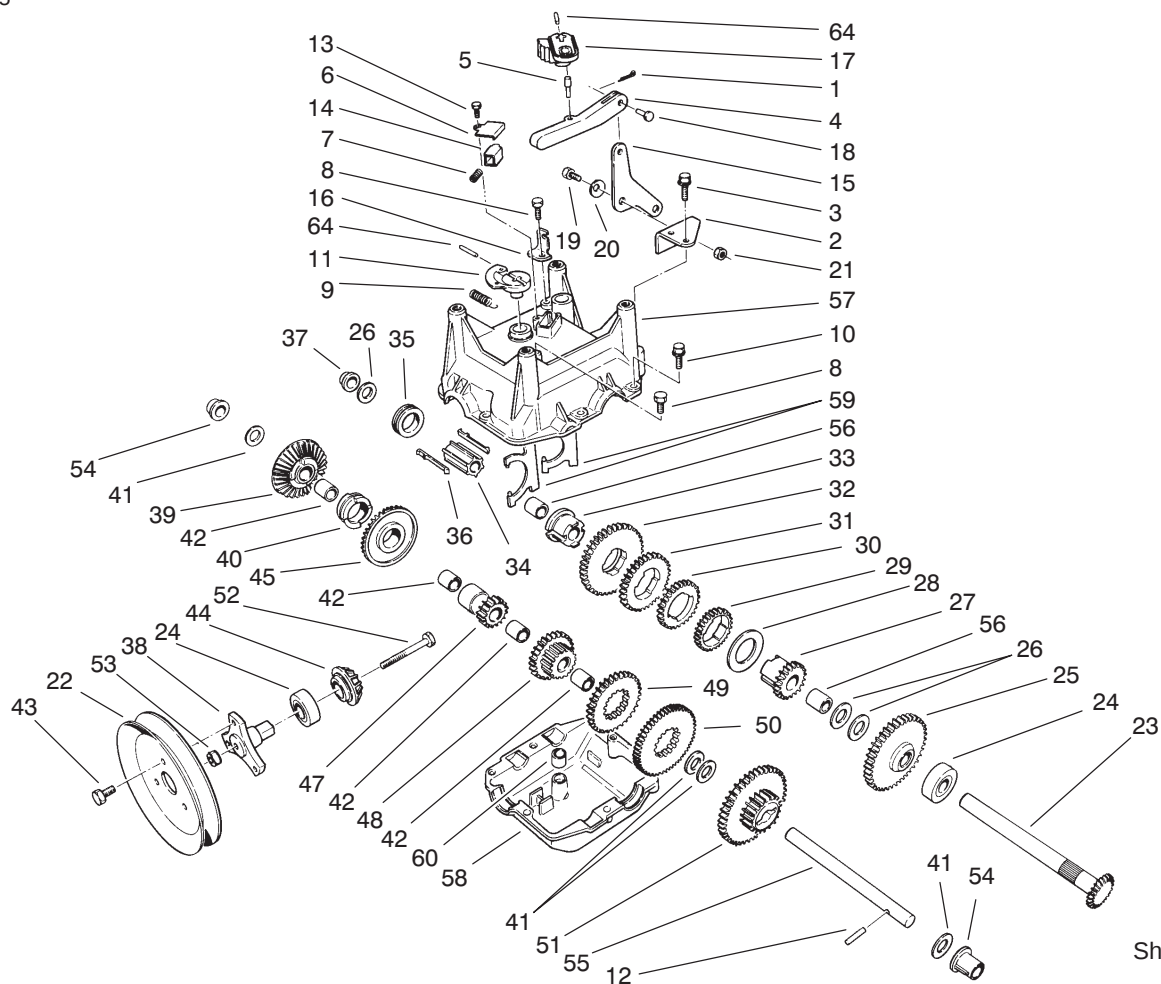
★ Not serviced separately



Sheet No.:A2

## Traction Gearcase Assembly Part No. 66-8030

| Ref. No. | Part No.  | Qty. | Description           | Ref. No. | Part No. | Qty. | Description            |
|----------|-----------|------|-----------------------|----------|----------|------|------------------------|
| 1        | 3272-1    | 1    | Pin-Cotter            | 27       | 62-0340  | 1    | Gear-Sleeve, 19 T      |
| 2        | 62-1190   | 1    | Bracket-Bellcrank     | 28       | 63-2280  | 1    | Washer-Thrust          |
| 3        | 32104-95  | 2    | Screw-HWH             | 29       | 62-0250  | 1    | Gear, 29 T             |
| 4        | 62-0860   | 1    | Link-Shift, Gear      | 30       | 62-0200  | 1    | Gear, 27 T             |
| 5        | 63-2190   | 1    | Pin-Link, Gear Shift  | 31       | 62-0220  | 1    | Gear, 34 T             |
| 6        | 62-1690   | 1    | Cover-Detent          | 32       | 62-0240  | 1    | Gear, 45 T             |
| 7        | 63-2890   | 1    | Spring-Detent         | 33       | 62-0320  | 1    | Sleeve-Gear            |
| 8        | 32144-4   | 2    | Screw-HWH             | 34       | 68-4320  | 1    | Sleeve-Shift           |
| 9        | 63-2920   | 1    | Spring-Extension      | 35       | 62-0430  | 1    | Collar-Shift           |
| 10       | 32144-86  | 6    | Screw-HH              | 36       | 62-0310  | 2    | Key-Shift              |
| 11       | 62-0880   | 1    | Lever                 | 37       | 62-1180  | 1    | Bushing-Flange, Output |
| 12       | 32121-106 | 1    | Pin-Spring            | 38       | 62-0380  | 1    | Hub-Pulley             |
| 13       | 32104-71  | 1    | Screw-HWH             | 39       | 67-5860  | 1    | Gear-Bevel, Rev, 36 T  |
| 14       | 62-1020   | 1    | Button-Detent         | 40       | 67-5880  | 1    | Collar-Shift           |
| 15       | 63-2600   | 1    | Bellcrank             | 41       | 257-10   | 4    | Washer-Thrust          |
| 16       | 62-1740   | 1    | Bracket-Cable         | 42       | 62-1160  | 4    | Bushing                |
| 17       | 62-0870   | 1    | Lever-Shift, Gear     | 43       | 12-3270  | 3    | Screw                  |
| 18       | 283-3     | 1    | Pin-Clevis            | 44       | 62-0350  | 1    | Pinion-Bevel           |
| 19       | 63-3410   | 1    | Screw-Shoulder        | 45       | 67-5870  | 1    | Gear-Bevel, 36 T       |
| 20       | 3290-477  | 1    | Washer-Curved         | 47       | 62-0500  | 1    | Gear-Bevel, 15 T       |
| 21       | 3296-42   | 1    | Nut-Lock, NI          | 48       | 68-4310  | 1    | Gear, 26 T             |
| 22       | 62-1310   | 1    | Traction-Sheave, Half | 49       | 62-0210  | 1    | Gear, 33 T             |
| 23       | 62-1080   | 1    | Shaft-Output          | 50       | 62-0260  | 1    | Gear, 51 T             |
| 24       | 100-1048  | 2    | Bearing-Ball          | 51       | 62-0360  | 1    | Gear, 19/41 T          |
| 25       | 62-0370   | 1    | Gear, 41 T            | 52       | 321-15   | 1    | Screw-HH               |
| 26       | 252-59    | 3    | Bearing-Thrust        |          |          |      |                        |

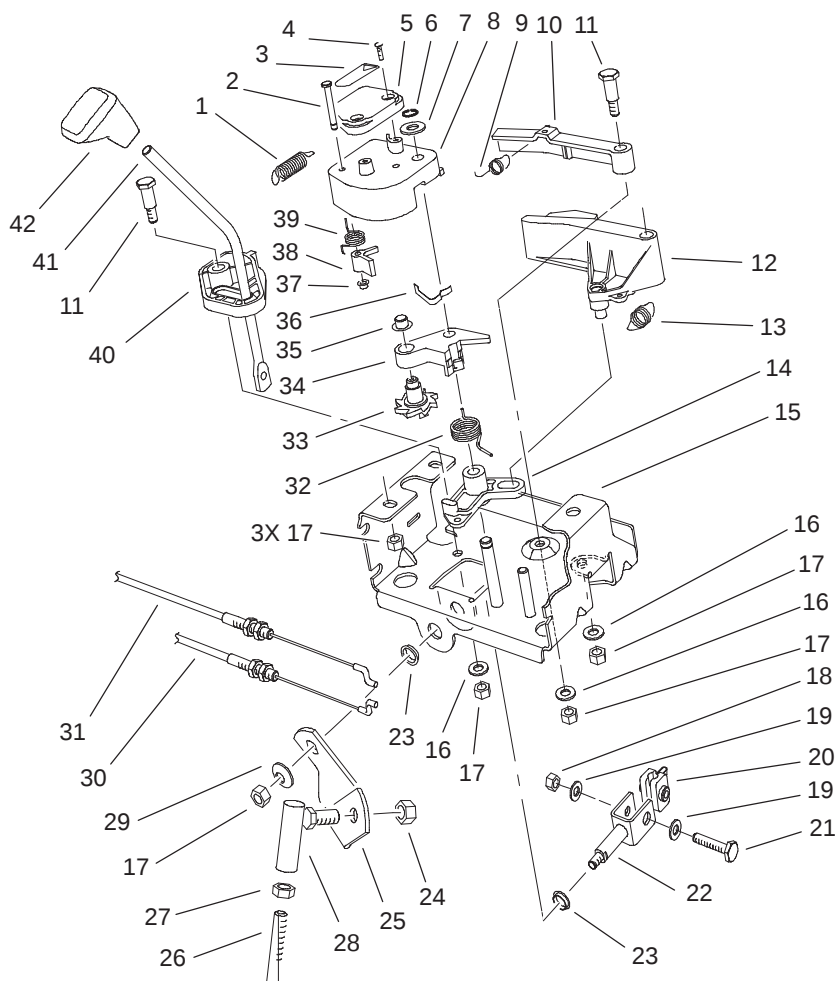


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## Traction Gearcase Assembly Part No. 66-8030 (continued)

| Ref. No. | Part No.  | Qty. | Description               |
|----------|-----------|------|---------------------------|
| 53       | 32128-32  | 1    | Nut-HHF                   |
| 54       | 62-1170   | 2    | Bushing-Intermediate      |
| 55       | 62-0330   | 1    | Shaft-Intermediate        |
| 56       | 62-1350   | 2    | Bushing-Output            |
| 57       | 62-0490   | 1    | Gearcase-Upper,<br>Casing |
| 58       | 62-0480   | 1    | Gearcase-Lower,<br>Casing |
| 59       | 62-1040   | 2    | Yoke-Shift                |
| 60       | 29-9570   | 1    | Bushing-Yoke              |
| 64       | 32121-120 | 2    | Pin-Spring                |

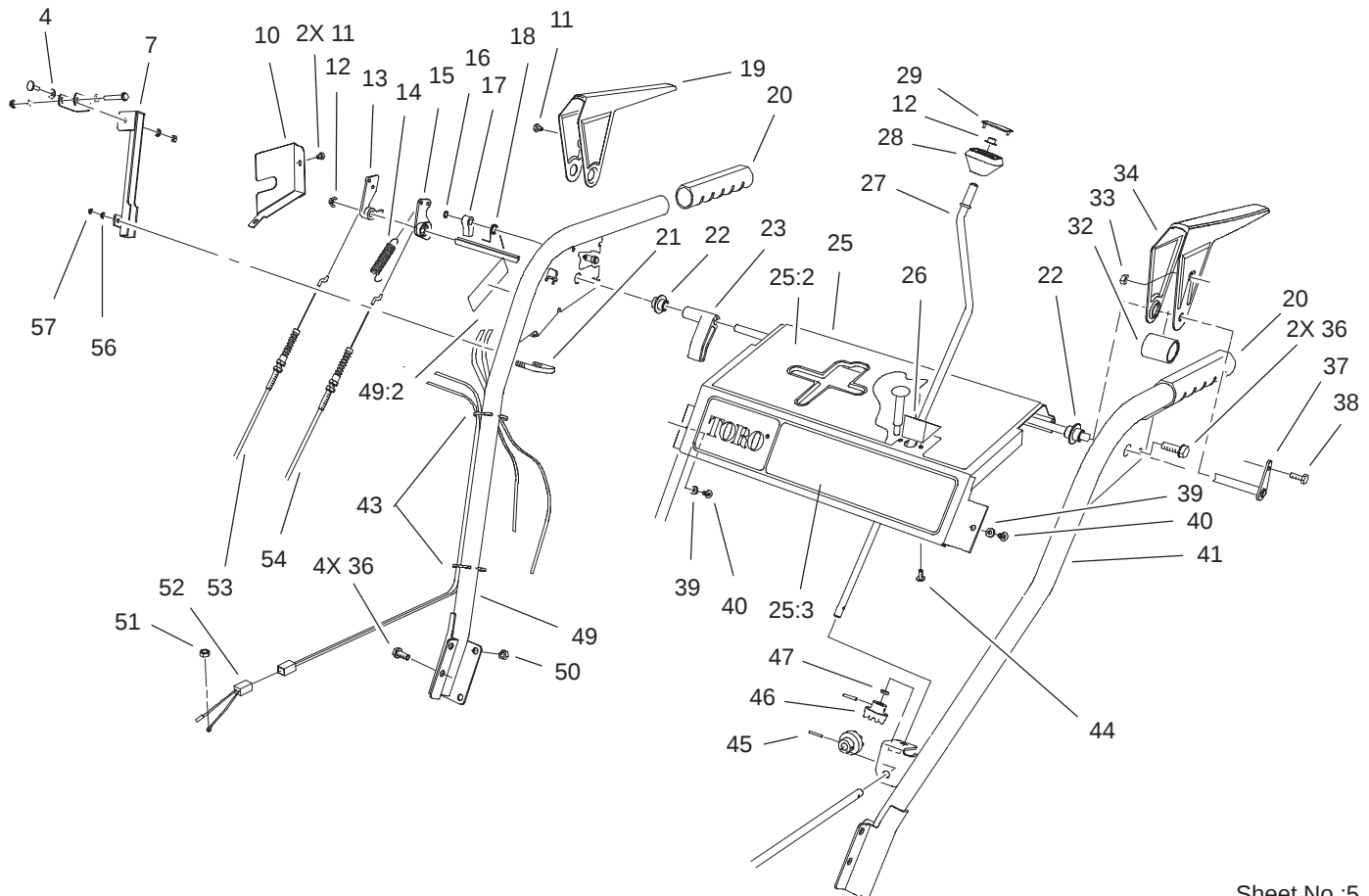
| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
|          |          |      |             |



Sheet No.:4

## Power Shift Control Assembly

| Ref. No. | Part No.   | Qty. | Description           | Ref. No. | Part No. | Qty. | Description           |
|----------|------------|------|-----------------------|----------|----------|------|-----------------------|
| 1        | 63-2220    | 1    | Spring-Extension      | 26       | 63-2830  | 1    | Rod-Bent Shift, Lower |
| 2        | 63-2610    | 1    | Pin-Tang              | 27       | 3220-3   | 1    | Nut-Jam               |
| 3        | 63-2480    | 1    | Decal-Number 2        | 28       | 78-2920  | 1    | Ball-Joint            |
| 4        | 94-6961    | 2    | Screw                 | 29       | 3290-456 | 1    | Washer-Belleville     |
| 5        | 62-1140    | 1    | Cover-Latch           | 30       | 63-2210  | 1    | Cable-Gearbox         |
| 6        | 32120-46   | 1    | Ring-Retaining        | 31       | 63-2200  | 1    | Cable-Arm, Latch      |
| 7        | 257-9      | 1    | Washer-Thrust         | 32       | 63-2270  | 1    | Spring-Torsion        |
| 8        | 62-1100    | 1    | Lever Latch           | 33       | 62-0170  | 1    | Wheel-Index           |
| 9        | 63-2240    | 1    | Spring-Extension      | 34       | 62-1110  | 1    | Lever-Wheel, Index    |
| 10       | 62-1700    | 1    | Lever-Lockout         | 35       | 3290-320 | 1    | Retainer-Push On      |
| 11       | 63-2650    | 2    | Screw-Shoulder        | 36       | 62-1710  | 1    | Spring-Flat           |
| 12       | 62-1130    | 1    | Lever-Reverse         | 37       | 3290-422 | 1    | Nut-Push              |
| 13       | 63-2230    | 1    | Spring-Extension      | 38       | 62-0180  | 1    | Tang-Index            |
| 14       | 62-1120    | 1    | Lever-Reverse, Switch | 39       | 62-1650  | 1    | Spring-Torsion        |
| 15       | 63-2150-03 | 1    | Control Frame ASM     | 40       | 62-1470  | 1    | Base-Lockout          |
| 16       | 3256-23    | 3    | Washer-Flat           | 41       | 67-9240  | 1    | Rod-Shift             |
| 17       | 3296-29    | 7    | Nut-Lock, NI          | 42       | 62-1290  | 1    | Knob-Shift            |
| 18       | 3296-42    | 1    | Nut-Lock, NI          |          |          |      |                       |
| 19       | 3256-1     | 2    | Washer-Flat           |          |          |      |                       |
| 20       | 67-9250    | 1    | Retainer-Rod, Shift   |          |          |      |                       |
| 21       | 321-9      | 1    | Screw-HH              |          |          |      |                       |
| 22       | 66-7730    | 1    | Clevis ASM            |          |          |      |                       |
| 23       | 256-296    | 2    | Bushing               |          |          |      |                       |
| 24       | 3296-6     | 1    | Nut-Lock, NI          |          |          |      |                       |
| 25       | 63-2630    | 1    | Bracket-Shift         |          |          |      |                       |

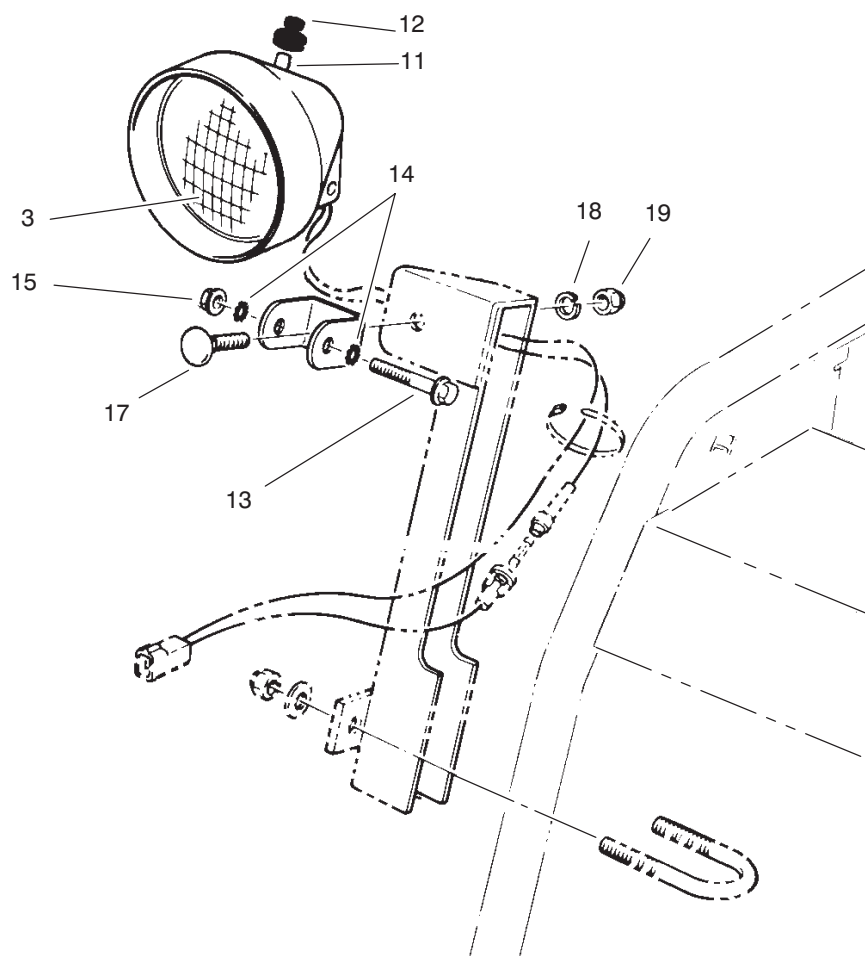


Sheet No.:5

## Handle and Control Assembly

| Ref. No. | Part No.   | Qty. | Description            |
|----------|------------|------|------------------------|
| 4        | 3256-26    | 1    | Washer-Flat            |
| 7        | 68-7110-03 | 1    | Mount-Light            |
| 10       | 63-2170-03 | 1    | Cover-Lock, Lever      |
| 11       | 2210-250   | 3    | Screw-HH               |
| 12       | 3290-320   | 2    | Retainer-Push On       |
| 13       | 62-0300    | 1    | Tang-Locking           |
| 14       | 88-0810    | 1    | Spring-Extension       |
| 15       | 62-0290    | 1    | Cam-Release            |
| 16       | 32151-66   | 1    | E-Ring-Retainer        |
| 17       | 62-0280    | 1    | Latch-Locking          |
| 18       | 63-2910    | 1    | Spring-Torsion         |
| 19       | 62-1050-03 | 1    | Lever-Traction, RH     |
| 20       | 66-7850    | 2    | Grip-Handle            |
| 21       | 68-7140    | 1    | U-Bolt                 |
| 22       | 62-1070    | 2    | Bushing-Lever          |
| 23       | 62-1640    | 1    | Lever-Trip             |
| 25       | 100-3577   | 1    | Control Panel ASM      |
| 25:2     | 99-3229    | 1    | Decal-Control          |
| 25:3     | 100-3439   | 1    | Decal - Front Panel    |
| 26       | 62-1490    | 1    | Plate-Guide            |
| 27       | 63-2160    | 1    | Crank-Rod, Chute       |
| 28       | 62-1320    | 1    | Knob-Control, Chute    |
| 29       | 62-1520    | 1    | Cover-Knob             |
| 32       | 63-3380    | 1    | Spacer-Lever, Traction |
| 33       | 3296-2     | 1    | Nut-Lock               |

| Ref. No. | Part No.   | Qty. | Description        |
|----------|------------|------|--------------------|
| 34       | 62-1060-03 | 1    | Lever-Traction, LH |
| 36       | 32144-14   | 6    | Screw-HWH          |
| 37       | 63-2030    | 1    | Cross Rod ASM      |
| 38       | 3290-359   | 1    | Screw-HWH          |
| 39       | 3256-14    | 2    | Washer-Flat        |
| 40       | 32104-76   | 2    | Screw              |
| 41       | 66-8091-03 | 1    | LH Handle ASM      |
| 43       | 3290-378   | 2    | Tie-Cable          |
| 44       | 94-6961    | 2    | Screw              |
| 45       | 32121-50   | 2    | Pin-Spring         |
| 46       | 62-1460    | 2    | Gear-Universal     |
| 47       | 62-1230    | 1    | Washer-Rubber      |
| 49       | 100-3598   | 1    | Handle ASM         |
| 49:2     | 94-2575    | 1    | Decal-Adjustment   |
| 50       | 3296-47    | 4    | Nut-Lock, NI       |
| 51       | 3217-6     | 1    | Nut-Hex            |
| 52       | 54-9810    | 1    | Wire ASM           |
| 53       | 63-2700    | 1    | Cable-Impeller     |
| 54       | 63-2710    | 1    | Cable-Traction     |
| 56       | 3256-23    | 2    | Washer-Flat        |
| 57       | 3296-29    | 4    | Nut-Lock, NI       |

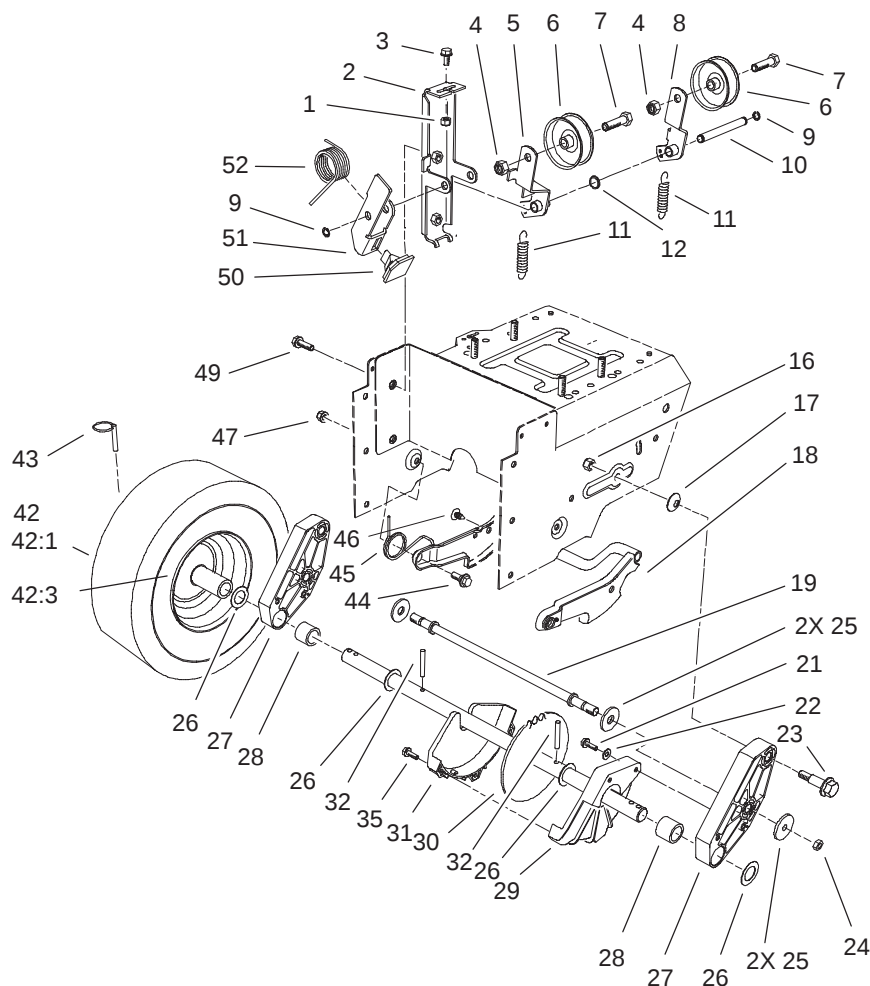


Sheet No.:A3

## Headlamp Assembly Part No. 54-9871

| Ref. No. | Part No. | Qty. | Description    |
|----------|----------|------|----------------|
| *1       | 54-9871  | 1    | Headlamp ASM   |
| 3        | 218-16   | 1    | Beam-Sealed    |
| 11       | 218-553  | 1    | Switch ASM     |
| 12       | 92-6033  | 1    | Boot-Switch    |
| 13       | 322-11   | 1    | Screw-HH       |
| 14       | 3255-8   | 2    | Washer-Lock    |
| 15       | 32128-29 | 1    | Locknut-Flange |
| 17       | 3231-22  | 1    | Screw-CARR     |
| 18       | 3253-21  | 1    | Washer-Lock    |
| 19       | 3217-7   | 1    | Nut-Hex        |

\* Not illustrated



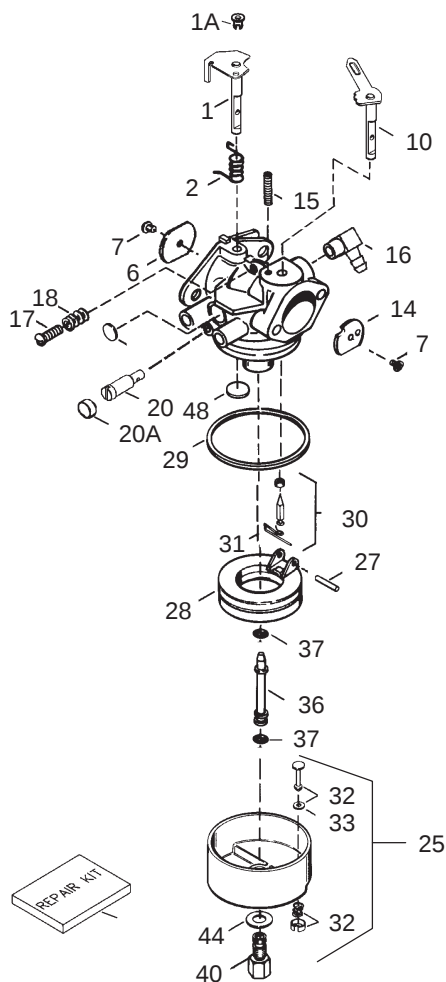
Sheet No.:6

## Lower Traction Assembly

| Ref. No. | Part No.   | Qty. | Description            |
|----------|------------|------|------------------------|
| 1        | 3296-42    | 1    | Nut-Lock, NI           |
| 2        | 63-2850    | 1    | Idler Arm Bracket ASM  |
| 3        | 3234-13    | 1    | Screw-HHF              |
| 4        | 3296-59    | 2    | Nut-Lock, NI           |
| 5        | 93-8046    | 1    | Impeller Idler Arm ASM |
| 6        | 3-4244     | 2    | Pulley-Idler           |
| 7        | 323-7      | 2    | Screw-HH               |
| 8        | 93-8045    | 1    | Traction Idler Arm ASM |
| 9        | 32120-46   | 2    | Ring-Retaining         |
| 10       | 62-0970    | 1    | Pin-Idler              |
| 11       | 63-2870    | 2    | Spring-Extension       |
| 12       | 3256-38    | 1    | Washer-Flat            |
| 16       | 3296-39    | 2    | Nut-Lock, NI           |
| 17       | 3290-461   | 2    | Washer-Spring          |
| 18       | 62-0470-03 | 1    | Latch ASM              |
| 19       | 66-7720    | 1    | Rod-Latch              |
| 21       | 32144-4    | 2    | Screw-HWH              |
| 22       | 3256-1     | 2    | Washer-Flat            |
| 23       | 62-1330    | 2    | Bolt-Shoulder          |
| 24       | 3296-23    | 2    | Nut-Lock, NI           |
| 25       | 63-3340    | 4    | Washer-Support         |
| 26       | 252-80     | 4    | Washer-Thrust          |
| 27       | 66-7740    | 2    | Pivot Arm ASM          |
| 28       | 63-2250    | 2    | Bushing-Axle           |

| Ref. No. | Part No. | Qty. | Description           |
|----------|----------|------|-----------------------|
| 29       | 62-1010  | 1    | Guard-Chain, LH       |
| 30       | 63-2112  | 1    | Axle                  |
| 31       | 62-1000  | 1    | Guard-Chain, RH       |
| 32       | 32121-9  | 2    | Pin-Spring            |
| 35       | 94-4496  | 3    | Screw-PPH             |
| 42       |          | 2    | Wheel & Tire Assembly |
| 42:1     | 231-123  | 1    | Tire                  |
| *42:2    | 232-48   | 1    | Inner Tube            |
| 42:3     | 241-127  | 1    | Rim-Wheel             |
| 43       | 3290-243 | 2    | Pin-Lynch             |
| 44       | 5-2490   | 2    | Screw-Shoulder        |
| 45       | 63-2740  | 1    | Spring-Latch, Torsion |
| 46       | 3290-476 | 1    | Fastener-Panel        |
| 47       | 3296-47  | 2    | Nut-Lock, NI          |
| 49       | 3234-7   | 2    | Screw-HHF             |
| 50       | 66-8060  | 1    | Pad-Brake             |
| 51       | 63-2820  | 1    | Arm-Brake             |
| 52       | 100-5474 | 1    | Spring-Torsion        |

\* Not illustrated



Sheet No.:

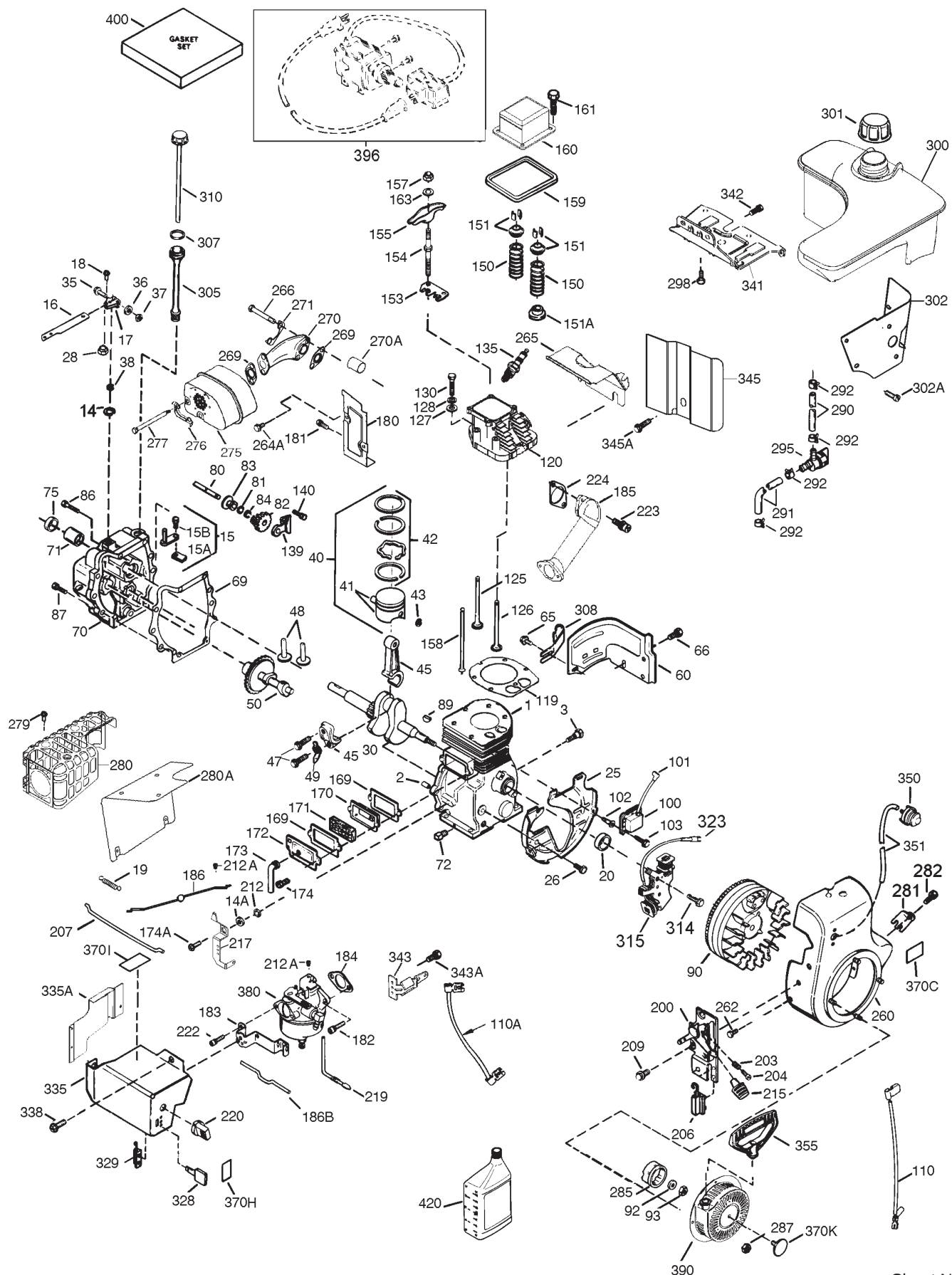
## Carburetor Part No. 640169

| Ref. No. | Part No. | Qty. | Description                               | Ref. No. | Part No. | Qty. | Description                   |
|----------|----------|------|-------------------------------------------|----------|----------|------|-------------------------------|
| 1        | 632777   | 1    | Throttle Shaft & Lever ASM                | 33       | 27554    | 1    | Drain Plunger Gasket          |
| 1A       | 36288    | 1    | Bushing                                   | 36       | 640013   | 1    | Main Nozzle Tube              |
| 2        | 631970   | 1    | Throttle Return Spring                    | 37       | 632547   | 2    | O—Ring, Main Nozzle Tube      |
| 6        | 640109   | 1    | Throttle Shutter                          | 40       | 640170   | 1    | High Speed Bowl Nut           |
| 7        | 650506   | 2    | Shutter Screw                             | 44       | 27110A   | 1    | Bowl Nut Washer               |
| 10       | 632778   | 1    | Choke Shaft & Lever ASM                   | 47       | 630748   | 1    | Welch Plug, Idle Mixture Well |
| 14       | 632189   | 1    | Choke Shutter                             | 48       | 631027   | 1    | Welch Plug, Vent              |
| 15       | 630735   | 1    | Choke Positioning Spring                  | 60       | 632760   | 1    | Repair Kit                    |
| 16       | 632527   | 1    | Fuel Fitting                              |          |          |      |                               |
| 17       | 651025   | 1    | Idle Speed Screw                          |          |          |      |                               |
| 18       | 630766   | 1    | Tension Spring                            |          |          |      |                               |
| 20       | 640027   | 1    | Idle Restrictor Screw                     |          |          |      |                               |
| 20A      | 640053   | 1    | Idle Restrictor Screw Cap                 |          |          |      |                               |
| 25       | 632594A  | 1    | Float Bowl ASM (Incl. Ref.# 32 & 33)      |          |          |      |                               |
| 27       | 631024   | 1    | Float Shaft                               |          |          |      |                               |
| 28       | 632082   | 1    | Float                                     |          |          |      |                               |
| 29       | 631028   | 1    | Float Bowl O—Ring                         |          |          |      |                               |
| 30       | 631021   | 1    | Inlet Needle, Seat, Clip (Incl. Ref.# 31) |          |          |      |                               |
| 31       | 631022   | 1    | Spring Clip                               |          |          |      |                               |
| 32       | 27136A   | 1    | Bowl Drain ASM                            |          |          |      |                               |

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# Tecumseh Engine Assembly

## Model No. OHSK100-221607D



Sheet No.:

T-XXXX

# Tecumseh Engine Assembly

## Model No. OHSK100-221607D

| Ref. No. | Part No. | Qty. | Description                                     | Ref. No. | Part No. | Qty. | Description                               |
|----------|----------|------|-------------------------------------------------|----------|----------|------|-------------------------------------------|
| 1        | 37251    | 1    | Cylinder<br>(Incl. Ref.# 2, 20 & 72)            | 86       | 650833   | 7    | Screw                                     |
| 2        | 27652    | 2    | Dowel Pin                                       | 87       | 650832   | 1    | Screw                                     |
| 3        | 650820   | 2    | Screw                                           | 89       | 32589    | 1    | Flywheel Key                              |
| 14       | 28277    | 1    | Washer                                          | 90       | 611093   | 1    | Flywheel<br>(W/Ring Gear)                 |
| 14A      | 651057   | 1    | Washer                                          | 92       | 650880   | 1    | Lock Washer                               |
| 15       | 30699C   | 1    | Governor Rod ASM<br>(Incl. Ref.#15A & 15B)      | 93       | 650881   | 1    | Flywheel Nut                              |
| 15A      | 30700    | 1    | Yoke—Governor                                   | 100      | 35135A   | 1    | Solid State Ignition<br>(Incl. Ref. #101) |
| 15B      | 650494   | 1    | Screw                                           | 101      | 610118   | 1    | Spark Plug Cover                          |
| 16       | 37255A   | 1    | Governor Lever                                  | 102      | 651024   | 2    | Solid State<br>Mounting Stud              |
| 17       | 29916    | 1    | Governor Lever Clamp                            | 103      | 651007   | 2    | Screw—Torx                                |
| 18       | 651028   | 1    | Screw—Torx                                      | 110      | 35187    | 1    | Ground Wire                               |
| 19       | 36281    | 1    | Throttle Spring                                 | 110A     | 37047    | 1    | Ground Wire                               |
| 20       | 35319    | 1    | Oil Seal                                        | 119      | 37256    | 1    | Cylinder Head Gasket                      |
| 25       | 36460    | 1    | Blower Housing Baffle                           | 120      | 37516    | 1    | Cylinder Head<br>(incl. Ref. #151A)       |
| 26       | 650561   | 2    | Screw                                           | 125      | 36934    | 1    | Exhaust Valve (Std.)                      |
| 28       | 30322    | 1    | Lock Nut                                        | 125      | 36936    | 1    | Exhaust Valve (1/32)                      |
| 30       | 37272    | 1    | Crankshaft                                      | 126      | 36935    | 1    | Intake Valve (Std.)                       |
| 35       | 29826    | 1    | Screw                                           | 127      | 650691   | 6    | Washer                                    |
| 36       | 29918    | 1    | Lock Washer                                     | 128      | 650690   | 6    | Belleville Washer                         |
| 37       | 29216    | 1    | Lock Nut                                        | 130      | 650697A  | 6    | Screw                                     |
| 38       | 29642    | 1    | Retaining Ring                                  | 135      | 34645    | 1    | Spark Plug (RN4C)                         |
| 40       | 40011    | 1    | Piston, Pin &<br>Ring Set (Std.)                | 139      | 33369    | 1    | Governor Gear Bracket                     |
| 40       | 40012    | 1    | Piston, Pin &<br>Ring Set (.010)                | 140      | 650836   | 1    | Screw                                     |
| 41       | 40009    | 1    | Piston & Pin<br>Ass'y (Std.)<br>(Incl. Ref.#43) | 150      | 33507    | 2    | Valve Spring                              |
| 41       | 40010    | 1    | Piston & Pin<br>Ass'y (.010)<br>(Incl. Ref.#43) | 151      | 33508    | 2    | Valve Spring Keeper                       |
| 42       | 40013    | 1    | Ring Set (Std.)                                 | 151A     | 35862    | 1    | Seal—Valve, Intake                        |
| 42       | 40014    | 1    | Ring Set (.010)                                 | 153      | 35949    | 1    | Push Rod Guide                            |
| 43       | 27888    | 2    | Piston Pin<br>Retaining Ring                    | 154      | 650945   | 2    | Rocker Arm Stud                           |
| 45       | 36897    | 1    | Connecting Rod ASM<br>(Incl. Ref.# 47 & 49)     | 155      | 35950    | 2    | Rocker Arm                                |
| 47       | 651033   | 2    | Connecting Rod Bolt                             | 157      | 650947   | 2    | Jam Nut                                   |
| 48       | 35313    | 2    | Valve Lifter                                    | 158      | 35466    | 2    | Push Rod                                  |
| 49       | 36896    | 1    | Oil Dipper                                      | 159      | 35952    | 1    | Rocker Arm<br>Cover Gasket                |
| 50       | 37517    | 1    | Camshaft (MCR)                                  | 160      | 35953A   | 1    | Rocker Arm Cover                          |
| 60       | 35316A   | 1    | Blower Housing<br>Extension                     | 161      | 30063    | 4    | Screw—Torx                                |
| 65       | 30200    | 1    | Screw                                           | 163      | 650890   | 2    | Lock Washer                               |
| 66       | 30063    | 1    | Screw—Torx                                      | 169      | 27896A   | 2    | Valve Cover Gasket                        |
| 69       | 37342    | 1    | Cylinder Cover Gasket                           | 170      | 28423    | 1    | Breather Body                             |
| 70       | 37273B   | 1    | Cylinder Cover (Incl.<br>Ref.# 71,75 & 80)      | 171      | 28424    | 1    | Breather Element                          |
| 71       | 35377    | 1    | Crankshaft Bushing                              | 172      | 28425    | 1    | Valve Cover                               |
| 72       | 27642    | 1    | Oil Drain Plug                                  | 173      | 35350    | 1    | Breather Tube                             |
| 75       | 35319    | 1    | Oil Seal                                        | 174      | 650128   | 2    | Screw                                     |
| 80       | 37587    | 1    | Governor Shaft                                  | 174A     | 651056   | 1    | Screw                                     |
| 81       | 651080   | 2    | Washer                                          | 180      | 37101    | 1    | Blower Housing<br>Extension               |
| 82       | 37588    | 1    | Governor Gear ASM                               | 181      | 30200    | 2    | Lock Nut                                  |
| 83       | 30588A   | 1    | Governor Spool                                  | 182      | 650517   | 2    | Screw—Torx                                |
| 84       | 29193    | 1    | Retaining Ring                                  | 183      | 34583A   | 1    | Choke Bracket                             |
|          |          |      |                                                 | 184      | 33263    | 1    | Carburetor To Intake<br>Pipe Gasket       |
|          |          |      |                                                 | 185      | 37085    | 1    | Intake Pipe                               |
|          |          |      |                                                 | 186      | 37261    | 1    | Governor Link                             |
|          |          |      |                                                 | 186B     | 36653    | 1    | Choke Spring                              |

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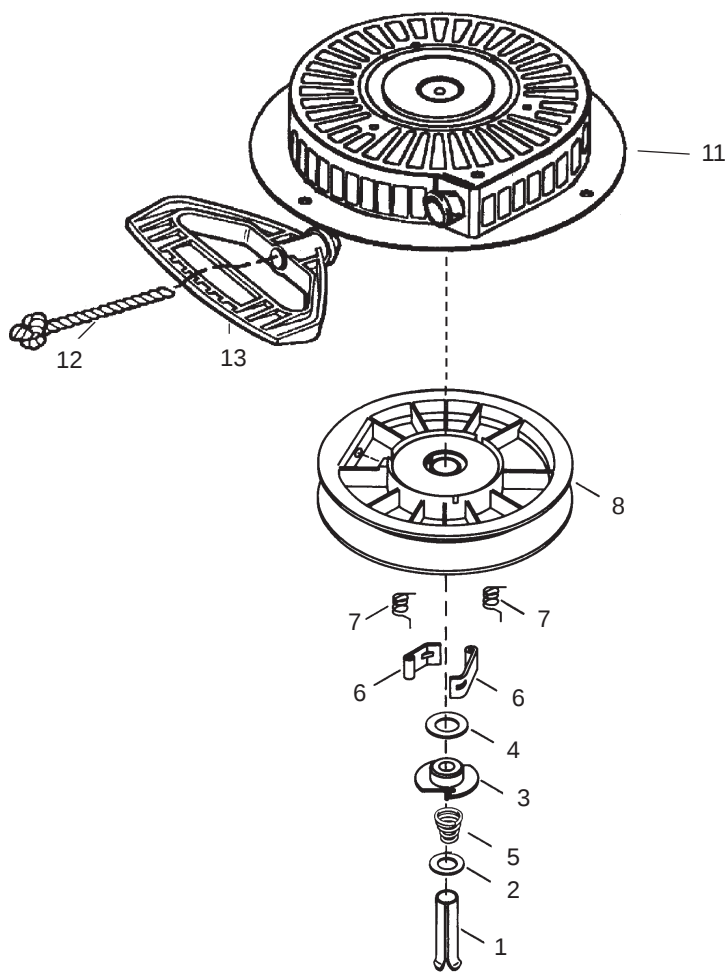
## Tecumseh Engine Assembly

### Model No. OHSK100-221607D

| Ref. No. | Part No. | Qty. | Description                                      |
|----------|----------|------|--------------------------------------------------|
| 200      | 35702    | 1    | Control Bracket (Incl. Ref.#203, 204 & 206)      |
| 203      | 31342    | 1    | Compression Spring                               |
| 204      | 651029   | 1    | Screw—Torx                                       |
| 206      | 610973   | 1    | Terminal                                         |
| 207      | 37262    | 1    | Throttle Link                                    |
| 209      | 650821   | 2    | Screw                                            |
| 212      | 30773A   | 1    | Bushing                                          |
| 212A     | 36288    | 1    | Bushing                                          |
| 215      | 35440    | 1    | Control Knob                                     |
| 217      | 37260    | 1    | Bellcrank Lever                                  |
| 219      | 35689    | 1    | Choke Rod                                        |
| 220      | 35438    | 1    | Choke Knob                                       |
| 222      | 28820    | 2    | Screw                                            |
| 223      | 650971   | 2    | Screw—Torx                                       |
| 224      | 33515A   | 1    | Intake Pipe Gasket                               |
| 260      | 37092A   | 1    | Blower Housing                                   |
| 262      | 29747B   | 2    | Screw—Torx                                       |
| 264A     | 650738   | 1    | Screw                                            |
| 265      | 37086    | 1    | Cylinder Head Cover                              |
| 266      | 650876   | 2    | Screw                                            |
| 269      | 35762    | 2    | Exhaust Gasket                                   |
| 270      | 37263    | 1    | Manifold                                         |
| 270A     | 35829A   | 1    | Exhaust Port Liner                               |
| 271      | 35293    | 1    | Locking Plate (Manifold)                         |
| 275      | 37264    | 1    | Muffler                                          |
| 276      | 36348    | 1    | Locking Plate                                    |
| 277      | 650877   | 2    | Screw                                            |
| 279      | 650821   | 5    | Screw                                            |
| 280      | 37265    | 1    | Heat Shield                                      |
| 280A     | 37106    | 1    | Shield—Heat, Radiation                           |
| 281      | 33013    | 1    | Starter Bubbler Cover                            |
| 282      | 650760   | 1    | Screw                                            |
| 285      | 35985B   | 1    | Starter Cup                                      |
| 287      | 29752    | 4    | Nut & Lock Washer                                |
| 290      | 30962    | 1    | Fuel Line                                        |
| 291      | 29774    | 1    | Fuel Line                                        |
| 292      | 26460    | 4    | Fuel Line Clamp                                  |
| 295      | 35857    | 1    | Fuel Shut—Off Valve                              |
| 298      | 650665   | 2    | Screw                                            |
| 300      | 37099    | 1    | Fuel Tank (Incl. Ref.#292 & 301)                 |
| 301      | 36246    | 1    | Fuel Cap                                         |
| 302      | 37098    | 1    | Fuel Tank Extension                              |
| 302A     | 650821   | 3    | Screw                                            |
| 305      | 35574    | 1    | Oil Fill Tube                                    |
| 307      | 35499    | 1    | O—Ring                                           |
| 308      | 35539    | 1    | Fill Tube Clip                                   |
| 310      | 35700    | 1    | Dipstick                                         |
| 314      | 650873   | 1    | Screw                                            |
| 315      | 611111   | 1    | Alternator Coil (18 Watt) (Incl. Ref.#322 & 323) |
| 322      | 611117   | 1    | Connector Body                                   |
| 323      | 611118   | 1    | Terminal                                         |
| 328      | 35062    | 2    | Ignition Keys                                    |

| Ref. No. | Part No. | Qty. | Description                                                                  |
|----------|----------|------|------------------------------------------------------------------------------|
| 329      | 610973   | 1    | Terminal                                                                     |
| 335      | 37096    | 1    | Carburetor Cover                                                             |
| 335A     | 37087    | 1    | Carburetor Cover                                                             |
| 338      | 650821   | 4    | Screw                                                                        |
| 341      | 37093    | 1    | Fuel Tank Bracket                                                            |
| 342      | 792028   | 2    | Screw                                                                        |
| 343      | 35079A   | 1    | Key Switch Bracket                                                           |
| 343A     | 651060   | 1    | Screw                                                                        |
| 345      | 37097    | 1    | Heat Baffle                                                                  |
| 345A     | 650821   | 1    | Screw                                                                        |
| 350      | 570682A  | 1    | Primer Assembly                                                              |
| 351      | 32180C   | 1    | Primer Line                                                                  |
| 355      | 590574   | 1    | Starter Handle                                                               |
| 370C     | 36501    | 1    | Primer Decal                                                                 |
| 370H     | 37226    | 1    | Choke Decal                                                                  |
| 370I     | 37119    | 1    | Warning Decal                                                                |
| 370K     | 36695    | 1    | Starter Decal                                                                |
| 380      | 640169   | 1    | Carburetor (Incl. Ref.# 184)                                                 |
| 390      | 590749   | 1    | Rewind Starter (Note: This engine could have been built with 590733 starter) |
| 396      | 33329E   | 1    | Electric Starter Motor (110 Volt) (Optional)                                 |
| 400      | 37257A   | 1    | Gasket Set                                                                   |
| 420      | 730226A  | 1    | SAE 5W30 4—Cycle Engine Oil (Quart)                                          |
|          | 756339B  | 1    | Shortblock                                                                   |

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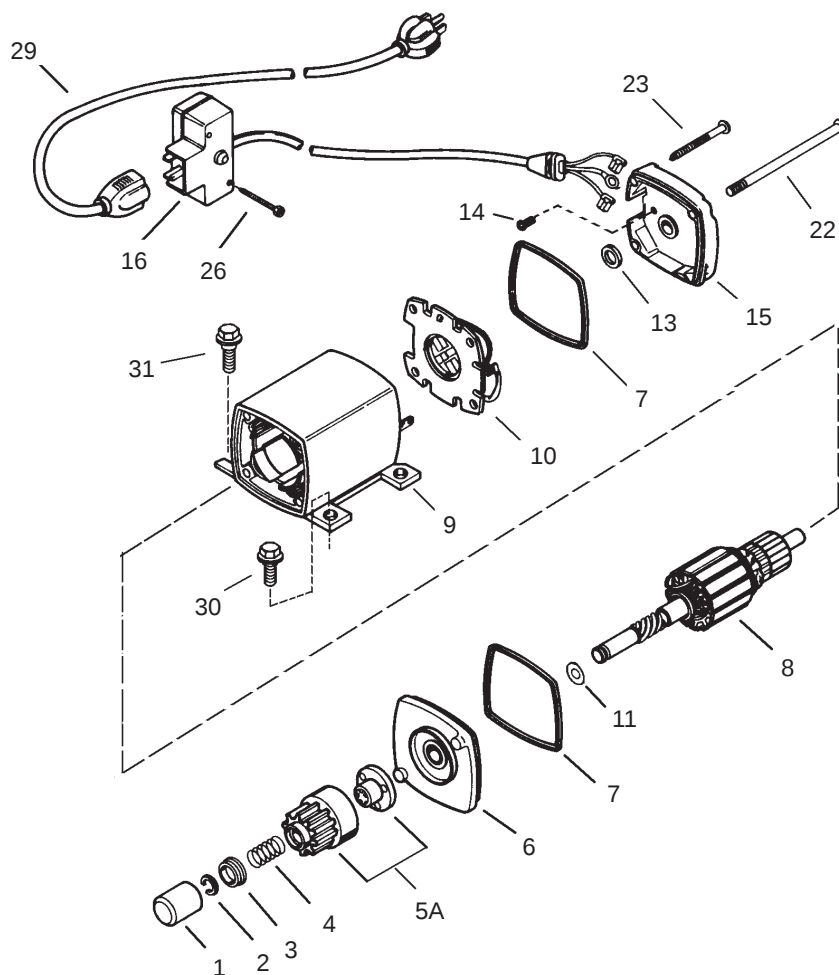
Sheet No.:

## Rewind Starter Part No. 590749

| Ref. No. | Part No. | Qty. | Description                   |
|----------|----------|------|-------------------------------|
| 1        | 590599A  | 1    | Spring Pin<br>(Incl. Ref.# 4) |
| 2        | 590600   | 1    | Washer                        |
| 3        | 590679   | 1    | Retainer                      |
| 4        | 590601   | 1    | Washer                        |
| 5        | 590678   | 1    | Brake Spring                  |
| 6        | 590680   | 2    | Starter Dog                   |
| 7        | 590412   | 2    | Dog Spring                    |
| 8        | 590682   | 1    | Pulley & Rewind<br>Spring ASM |
| 11       | 590750A  | 1    | Starter Housing ASM           |
| 12       | 590535   | 1    | Starter Rope                  |
| 13       | 590574   | 1    | Mitten Grip Handle            |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
|          |          |      |             |

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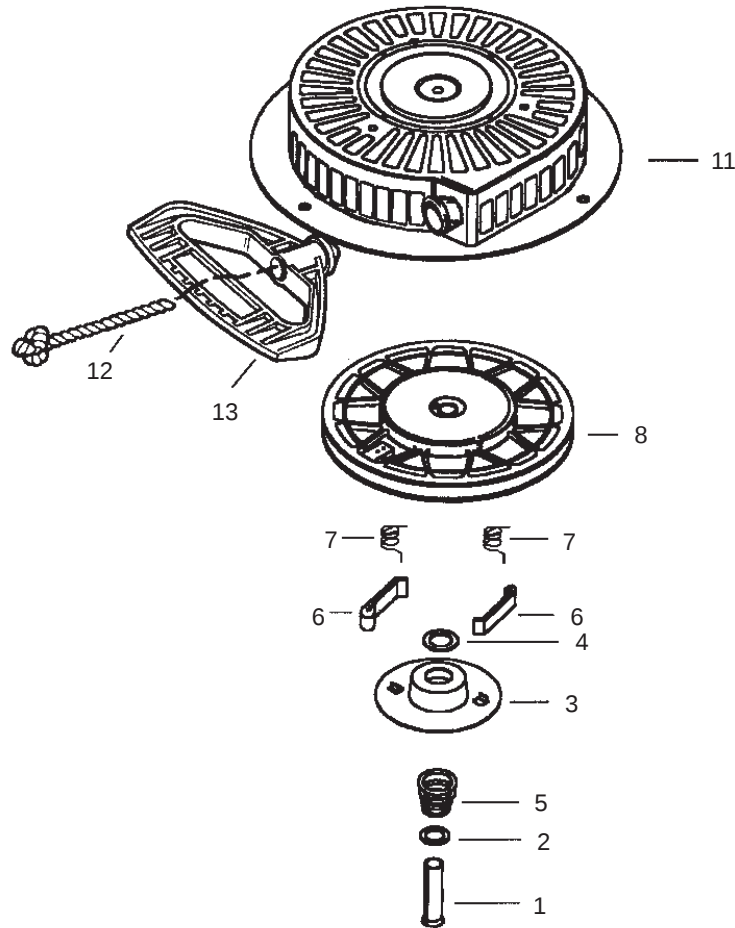
Sheet No.:

## Electric Starter (110 Volt) Part No. 33329E

| Ref. No. | Part No. | Qty. | Description                               |
|----------|----------|------|-------------------------------------------|
| 1        | 33451    | 1    | Dust Cover                                |
| 2        | 33842    | 1    | Retaining Ring                            |
| 3        | 33430    | 1    | Spring Retainer                           |
| 4        | 33431    | 1    | Anti—drift Spring                         |
| 5A       | 37050    | 1    | Gear & Nut<br>(Incl. Ref.# 2)             |
| 6        | 35449    | 1    | Drive End Cap ASM<br>(Incl. Ref.#7)       |
| 7        | 35450    | 2    | O—Ring                                    |
| 8        | 35915    | 1    | Armature                                  |
| 9        | 35451B   | 1    | Housing ASM                               |
| 10       | 35452A   | 1    | Brush Card ASM                            |
| 11       | 35911    | 1    | Thrust Washer                             |
| 13       | 590500   | 1    | Thrust Washer                             |
| 14       | 33441    | 1    | Ground Screw                              |
| 15       | 35453    | 1    | Commutator End Cap<br>ASM (Incl. Ref.# 7) |
| 16       | 35454    | 1    | Switch Box ASM                            |
| 22       | 35455    | 2    | Case Bolt                                 |
| 23       | 35456    | 1    | Ground Screw                              |
| 26       | 650819   | 2    | Screw                                     |
| 26       | 651032   | 2    | Screw                                     |
| 29       | 32450B   | 1    | Extension Cord                            |
| 30       | 30063    | 2    | Screw—Torx                                |
| 31       | 650820   | 2    | Screw                                     |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
|          |          |      |             |

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Sheet No.:

### Rewind Starter Part No. 590733 (Optional)

| Ref. No. | Part No. | Qty. | Description                   | Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------------------------|----------|----------|------|-------------|
| 1        | 590599A  | 1    | Spring Pin<br>(Incl. Ref.# 4) |          |          |      |             |
| 2        | 590600   | 1    | Washer                        |          |          |      |             |
| 3        | 590696   | 1    | Retainer                      |          |          |      |             |
| 4        | 590601   | 1    | Washer                        |          |          |      |             |
| 5        | 590697   | 1    | Brake Spring                  |          |          |      |             |
| 6        | 590698   | 2    | Starter Dog                   |          |          |      |             |
| 7        | 590699   | 2    | Dog Spring                    |          |          |      |             |
| 8        | 590709   | 1    | Pulley & Rewind<br>Spring ASM |          |          |      |             |
| 11       | 590734A  | 1    | Starter Housing ASM           |          |          |      |             |
| 12       | 590535   | 1    | Starter Rope                  |          |          |      |             |
| 13       | 590574   | 1    | Mitten Grip Handle            |          |          |      |             |

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