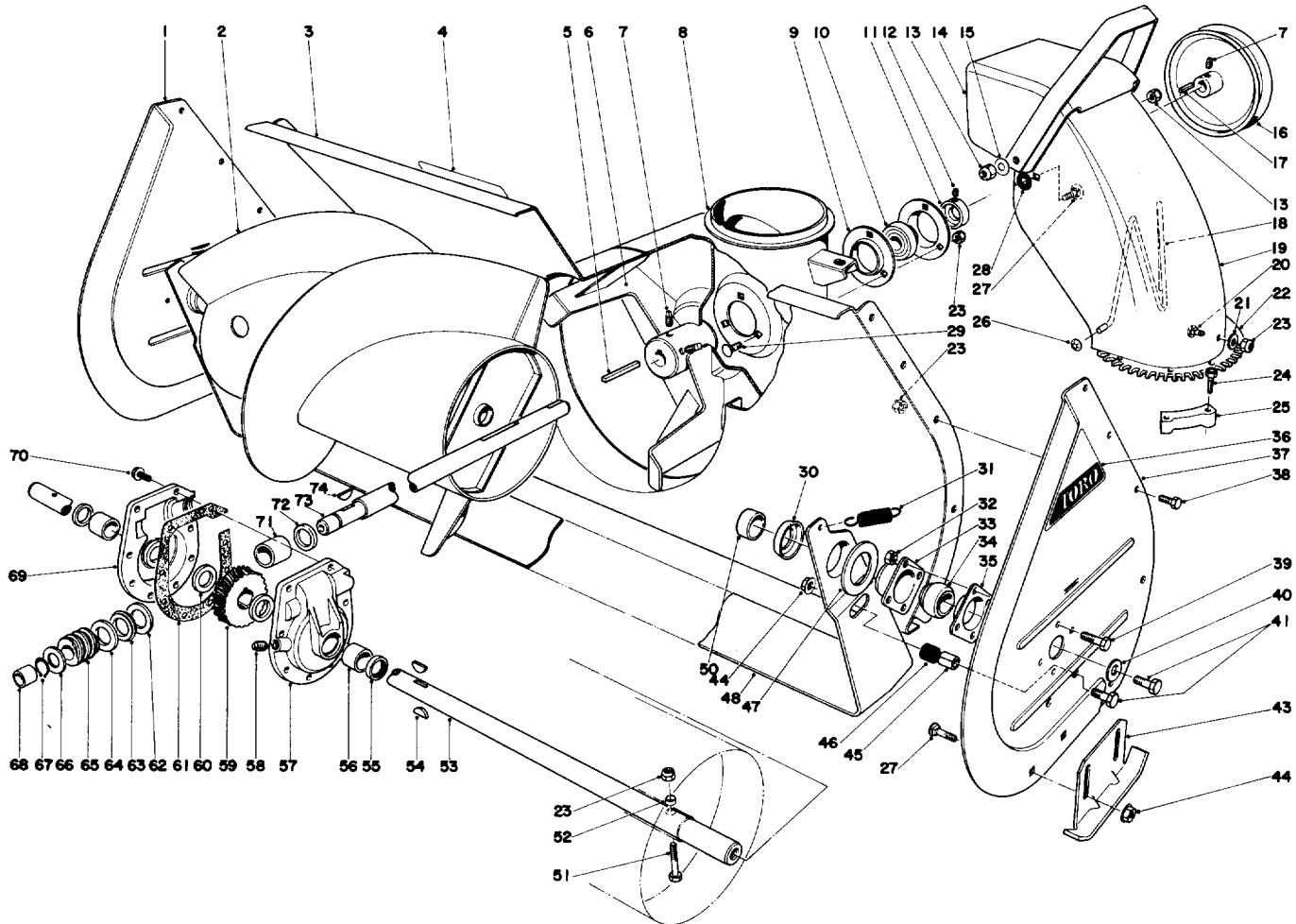


# TORO®

MODEL NO. 38150-1000001 & UP  
MODEL NO. 38160-1000001 & UP

## PARTS CATALOG

### 826 & 1132 SNOWTHROWERS



### AUGER ASSEMBLY

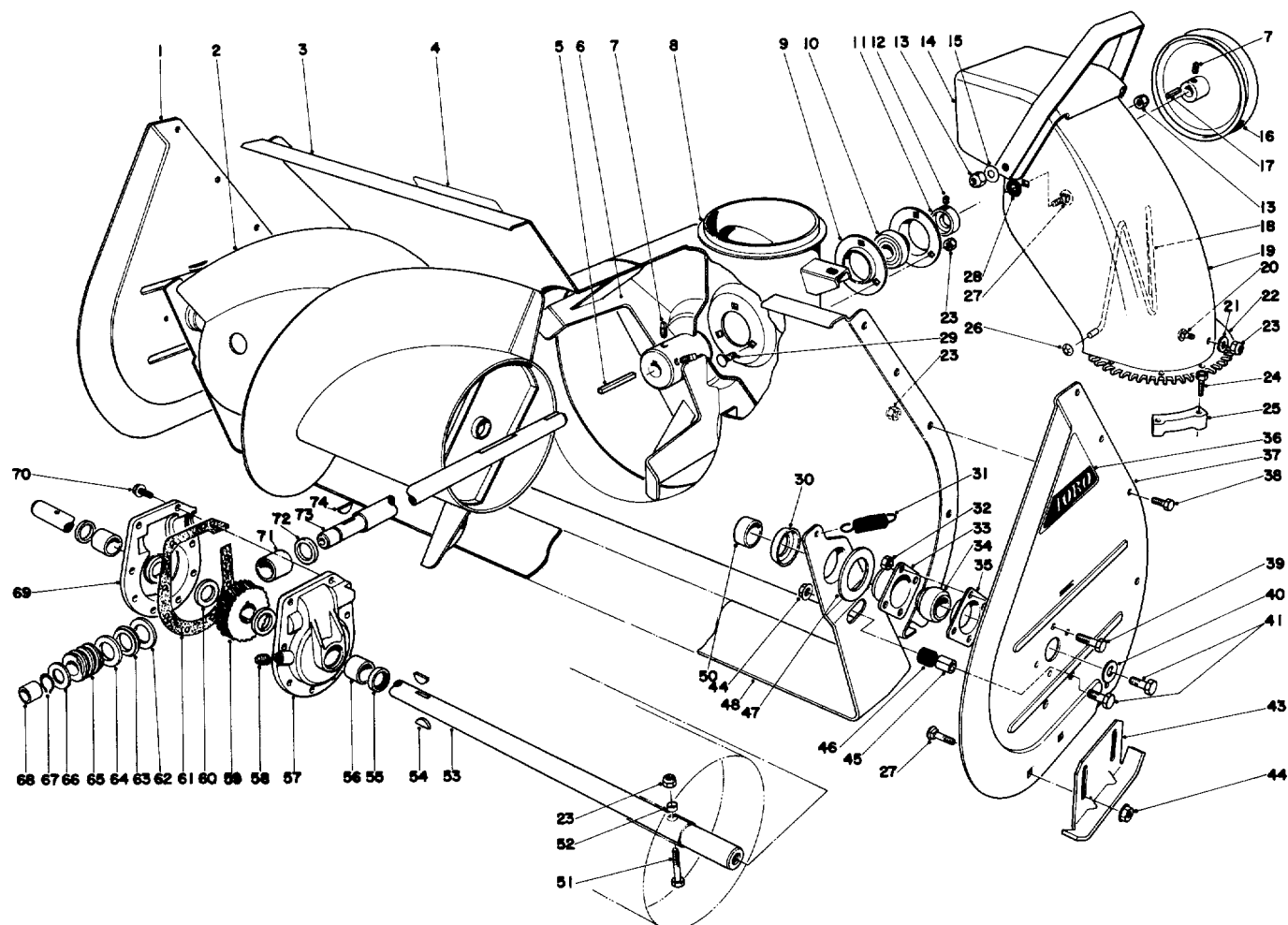
| Ref. No. | Part No. | Description                 | No. Used |
|----------|----------|-----------------------------|----------|
| 1        | 8-8450   | Sideplate Auger R.H.        | 1        |
| 2        | 26-6180  | Auger R.H. (Model 38160)    | 1        |
| *        | 26-6160  | Auger R.H. (Model 38150)    | 1        |
| *        | 26-6190  | Auger L.H. (Model 38160)    | 1        |
| *        | 26-6170  | Auger L.H. (Model 38150)    | 1        |
| 3        | 25-5110  | Auger Housing (Model 38160) | 1        |
| *        | 25-5100  | Auger Housing (Model 38150) | 1        |
| 4        | 29-6350  | Decal -- Auger Warning      | 1        |
| 5        | 6-8590   | Key -- Impeller             | 1        |
| 6        | 19-8890  | Impeller                    | 1        |
| 7        | 3242-4   | Set Screw                   | 4        |
| 8        | 25-5170  | Chute Ring                  | 1        |
| 9        | 251-229  | Bearing Flange              | 2        |
| 10       | 251-224  | Bearing -- Impeller         | 1        |
| 11       | 251-231  | Locking Collar              | 1        |
| 12       | 3245-32  | Set Screw                   | 2        |

| Ref. No. | Part No. | Description       | No. Used |
|----------|----------|-------------------|----------|
| 13       | 32152-2  | Locknut           | 2        |
| 14       | 11-7120  | Deflector         | 1        |
| 15       | 3290-340 | Washer Belleville | 2        |
| 16       | 5-7400   | Pulley Impeller   | 1        |
| 17       | 3-6857   | Key               | 1        |
| 18       | 12-2040  | Chute Wire        | 1        |
| 19       | 25-5440  | Upper Chute       | 1        |
| 20       | 3230-18  | Carriage Bolt     | 3        |
| 21       | 3256-23  | Washer            | 3        |
| 22       | 25-5290  | Swivel Plate      | 1        |
| 23       | 3296-29  | Locknut           | 18       |
| 24       | 27-0220  | Screw Special     | 6        |
| 25       | 25-5450  | Swivel Block      | 3        |
| 26       | 3290-326 | Pushnuts          | 2        |
| 27       | 3231-27  | Carriage Bolt     | 6        |
| 28       | 20-4320  | Washer Rubber     | 2        |

\*Not Illustrated

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PRICE \$1.00



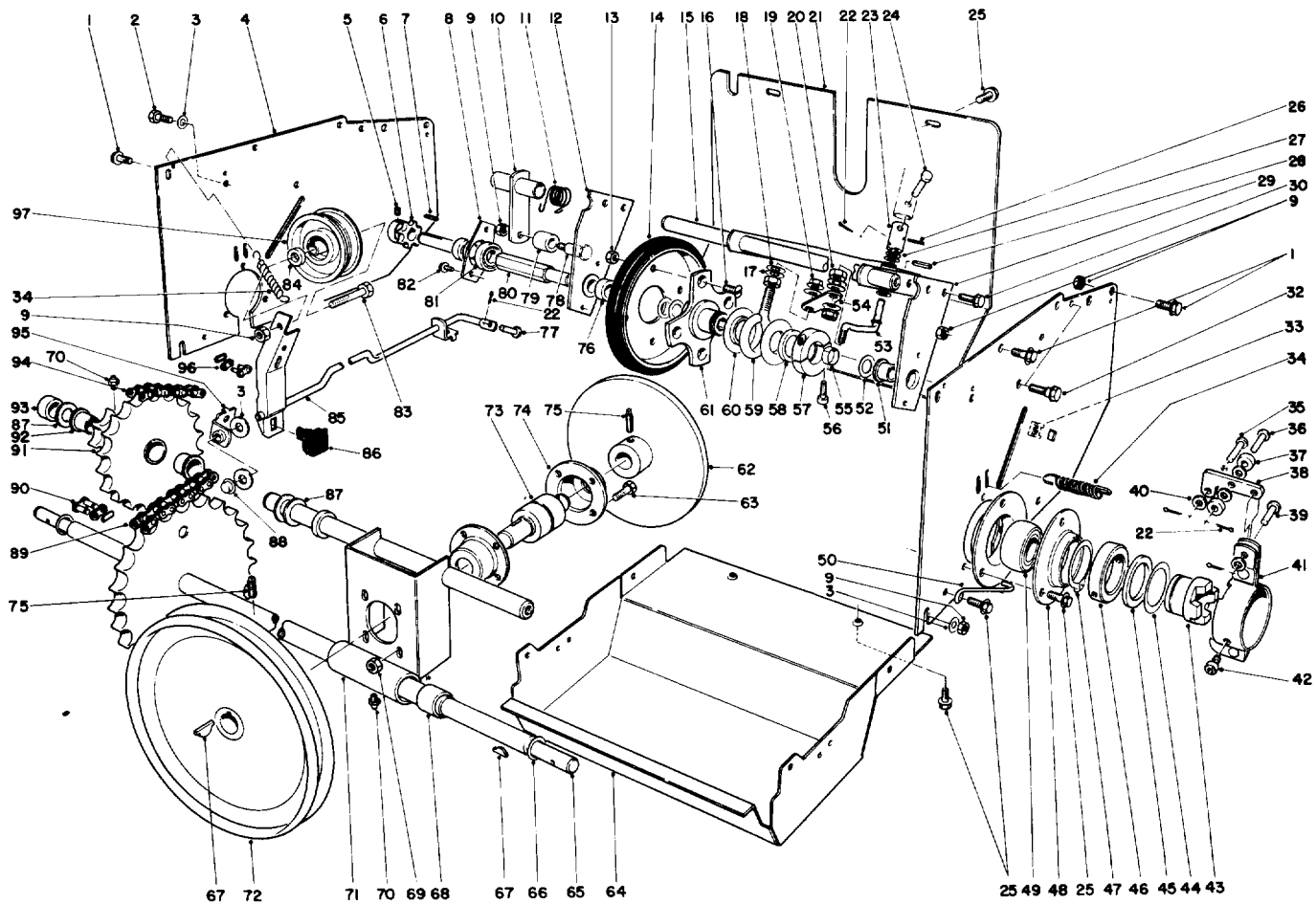
## AUGER ASSEMBLY (Continued)

| Ref. No. | Part No. | Description                 | No. Used |
|----------|----------|-----------------------------|----------|
| 29       | 3230-1   | Carriage Bolt               | 3        |
| 30       | 26-6400  | Positioner — Scraper Blade  | 2        |
| 31       | 5-7290   | Spring Scraper              | 2        |
| 32       | 32152-4  | Locknut                     | 8        |
| 33       | 20-0990  | Flange Bearing Front        | 2        |
| 34       | 20-0980  | Bearing                     | 2        |
| 35       | 20-1000  | Flange Bearing Rear         | 2        |
| 36       | 17-6500  | Decal — Auger Side Plate    | 2        |
| 37       | 8-8440   | Sideplate Auger L.H.        | 1        |
| 38       | 322-2    | Capscrew                    | 10       |
| 39       | 321-3    | Capscrew                    | 8        |
| 40       | 3-0750   | Flat Washer                 | 2        |
| 41       | 323-6    | Capscrew                    | 4        |
| 43       | 20-2840  | Auger Skid                  | 2        |
| 44       | 32128-21 | Locknut                     | 6        |
| 45       | 25-5140  | Standoff — Scraper Stop     | 2        |
| 46       | 25-5150  | Bumper — Scraper Stop       | 2        |
| 47       | 20-0300  | Spacer — Scraper Blade      | 2        |
| 48       | 19-9160  | Scraper Blade (Model 38160) | 1        |
| *        | 19-9140  | Scraper Blade (Model 38150) | 1        |
| 50       | 26-6390  | Spacer Auger                | 2        |
| 51       | 17-7030  | Bolt Auger                  | 2        |
| 52       | 25-5090  | Spacer Auger Hub            | 2        |
| 53       | 11-7010  | Shaft Auger (Model 38160)   | 1        |
| *        | 11-7000  | Shaft Auger (Model 38150)   | 1        |
| 54       | 3257-33  | Key Woodruff                | 2        |
| 55       | 7-0045   | Oil Seal                    | 2        |
| 56       | 256-237  | Bushing                     | 2        |

| Ref. No. | Part No. | Description                                  | No. Used |
|----------|----------|----------------------------------------------|----------|
| 57       | 37-8860  | Gear Case L.H.<br>(Incl. Ref. #55-56)        | 1        |
| 58       | 281-1    | Pipe Plug                                    | 1        |
| 59       | 5-7180   | Gear Worm                                    | 1        |
| 60       | 252-71   | Thrust Bearing                               | 2        |
| 61       | 40-8330  | Gasket                                       | 1        |
| 62       | 252-78   | Thrust Washer                                | 1        |
| 63       | 252-76   | Thrust Bearing                               | 1        |
| 64       | 252-77   | Thrust Washer                                | 1        |
| 65       | 5-7170   | Worm                                         | 1        |
| 66       | 3-8664   | Thrust Washer                                | 1        |
| 67       | 32120-72 | Retaining Ring                               | 1        |
| 68       | 256-32   | Bushing                                      | 1        |
| 69       | 37-8850  | Gear Case R.H.<br>(Incl. Ref. #55-56)        | 1        |
| 70       | 32144-41 | Thread Forming Screw                         | 8        |
| 71       | 20-3210  | Bushing                                      | 1        |
| 72       | 237-87   | Seal                                         | 1        |
| 73       | 19-8540  | Shaft Impeller                               | 1        |
| 74       | 3257-23  | Key Woodruff                                 | 1        |
| *        | 25-5280  | Gear Case Assembly Complete<br>(Model 38160) | 1        |
| *        | 19-6990  | Gear Case Assembly Complete<br>(Model 38150) | 1        |
| †        | 20-0650  | Drift Storage Bar<br>(Model 38160)           | 1        |
| †        | 20-0640  | Drift Storage Bar<br>(Model 38150)           | 1        |

\*Not Illustrated

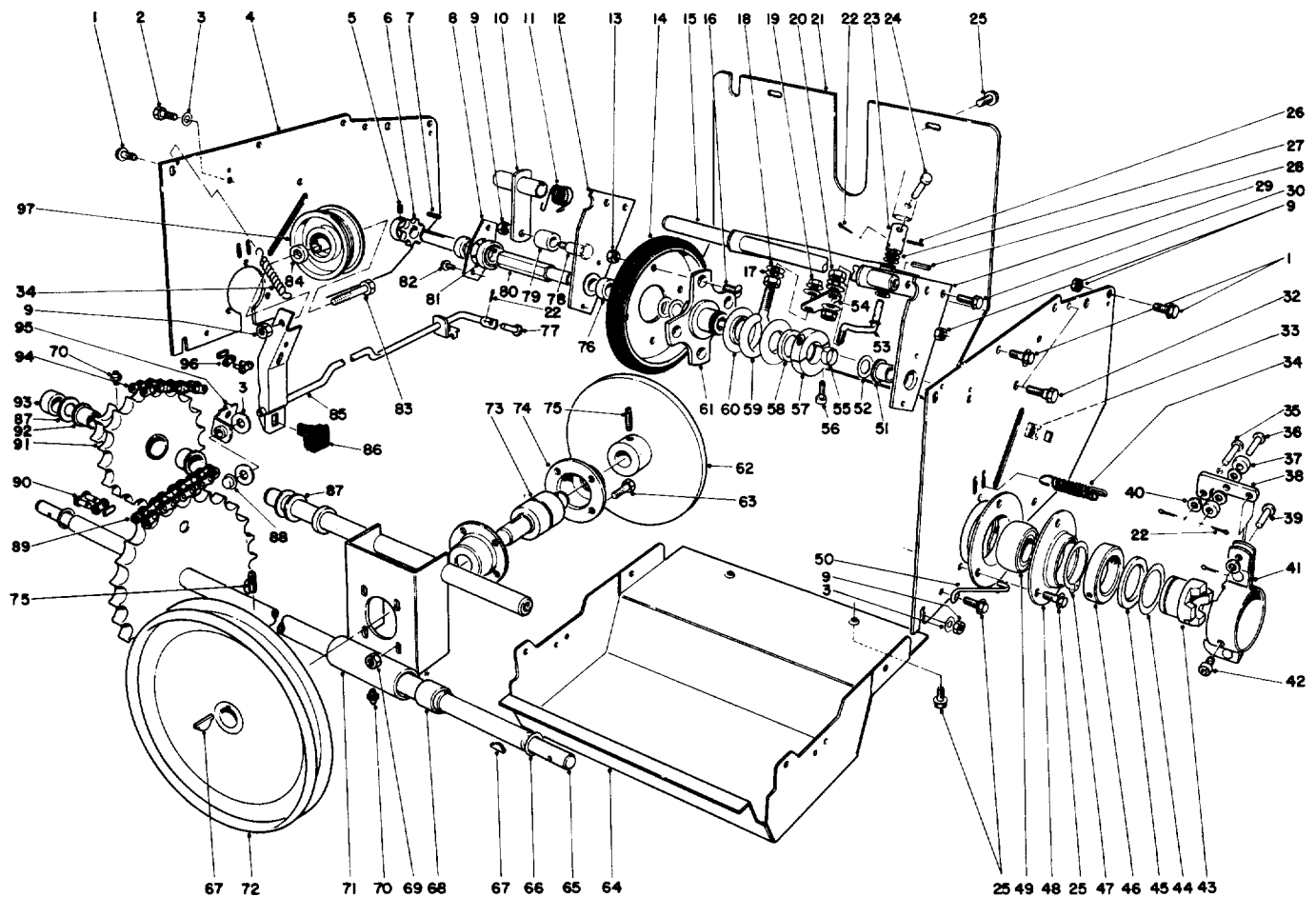
2 †Optional Equipment



## TRACTION ASSEMBLY

| Ref. No. | Part No. | Description              | No. Used |
|----------|----------|--------------------------|----------|
| 1        | 323-6    | Capscrew                 | 7        |
| 2        | 32144-15 | Hex Thread Forming Screw | 2        |
| 3        | 3256-25  | Washer                   | 5        |
| 4        | 22-7990  | Side Plate Drive         | 2        |
| 5        | 3245-32  | Set Screw                | 2        |
| 6        | 5-9820   | Sprocket                 | 1        |
| 7        | 3-6168   | Square Key               | 1        |
| 8        | 22-8950  | Bearing Cup              | 1        |
| 9        | 32146-2  | Hex Locknut              | 11       |
| 10       | 26-6470  | Chain Tensioning Arm     | 1        |
| 11       | 26-8950  | Spring — Chain Tensioner | 1        |
| 12       | 26-6070  | Mount — Hex Shaft R.H.   | 1        |
| 13       | 32146-5  | Locknut                  | 4        |
| 14       | 40-8170  | Disc Assembly            | 1        |
| 15       | 11-8010  | Bracket — Dead Shaft     | 1        |
| 16       | 32108-94 | Screw — Flat Head        | 4        |
| 17       | 3256-45  | Washer                   | 2        |
| 18       | 3290-301 | Spring Washer            | 4        |
| 19       | 32128-12 | Flange Nut               | 2        |
| 20       | 32146-6  | Locknut                  | 2        |
| 21       | 8-7950   | Rear Shield              | 1        |
| 22       | 3272-5   | Cotter Pin               | 8        |
| 23       | 11-8070  | Tube — "U" Joint         | 1        |
| 24       | 283-31   | Clevis Pin               | 1        |
| 25       | 32144-10 | Screw — Thread Forming   | 14       |
| 26       | 32121-50 | Roll Pin                 | 2        |
| 27       | 252-89   | Thrust Washer            | 3        |

| Ref. No. | Part No. | Description                            | No. Used |
|----------|----------|----------------------------------------|----------|
| 28       | 32121-11 | Roll Pin                               | 2        |
| 29       | 26-6330  | Hex Shaft Mounting<br>(Incl. Ref. #51) | 1        |
| 30       | 32144-11 | Screw — Thread Forming                 | 4        |
| 32       | 11-8140  | Shoulder Screw                         | 4        |
| 33       | 3290-398 | Retained Nut                           | 2        |
| 34       | 10-3890  | Spring — Extension                     | 3        |
| 35       | 283-29   | Clevis Pin                             | 2        |
| 36       | 283-17   | Clevis Pin                             | 2        |
| 37       | 10-3910  | Roller — Clutch                        | 4        |
| 38       | 20-1050  | Arm — Clutch Cam                       | 2        |
| 39       | 283-16   | Clevis Pin                             | 2        |
| 40       | 3256-14  | Washer                                 | 10       |
| 41       | 20-2290  | Clutch Mounting Bracket                | 2        |
| 42       | 3274-42  | Hex Socket Capscrew                    | 4        |
| 43       | 26-5990  | Wheel Clutch                           | 2        |
| 44       | 10-3980  | Thrust Washer                          | 2        |
| 45       | 256-214  | Thrust Bearing                         | 2        |
| 46       | 10-3860  | Collar — Clutch Mounting               | 2        |
| 47       | 32151-35 | Ring — Retainer                        | 2        |
| 48       | 20-1020  | Bearing Flange                         | 4        |
| 49       | 20-1010  | Bearing Axle                           | 2        |
| 50       | 41-8570  | Retainer — Clutch                      | 2        |
| 51       | 256-219  | Bushing                                | 1        |
| 52       | 5-7570   | Washer — Friction Wheel Shaft          | 3        |
| 53       | 11-8090  | Rod — Connecting                       | 1        |
| 54       | 11-8060  | Pivot — Shift Rod                      | 1        |

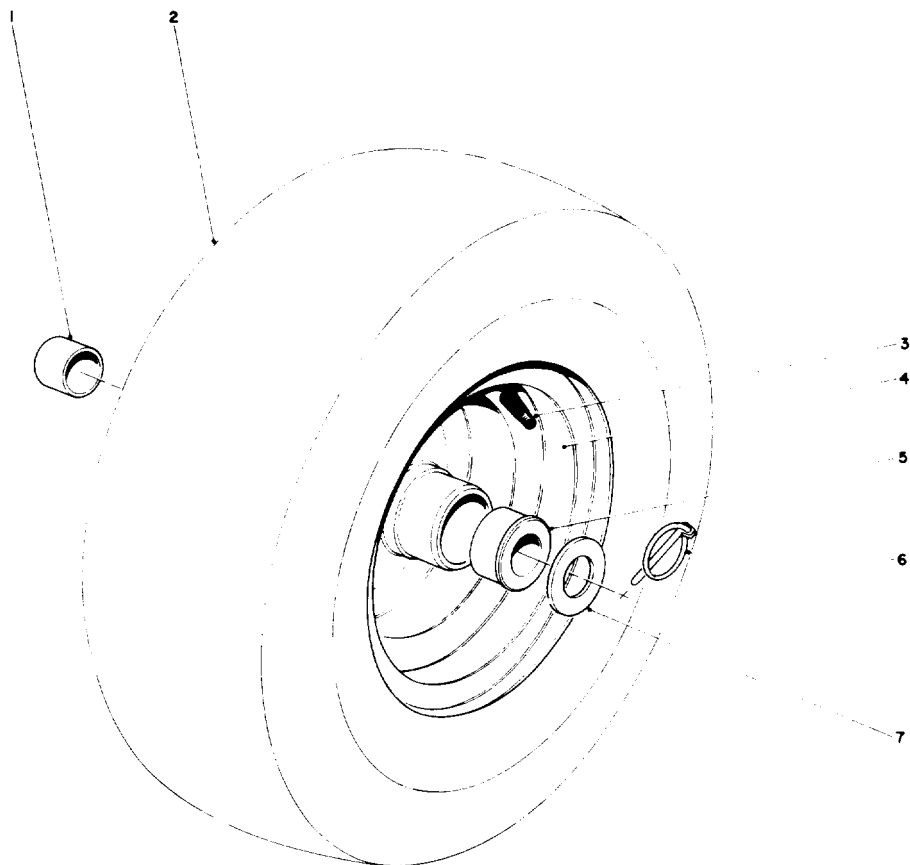


## TRACTION ASSEMBLY(Continued)

| Ref. No. | Part No. | Description               | No. Used |
|----------|----------|---------------------------|----------|
| 55       | 11-3180  | Spacer — Split            | 1        |
| 56       | 3274-26  | Hex Socket Capscrew       | 2        |
| 57       | 20-4610  | Collar                    | 1        |
| 58       | 252-71   | Thrust Bearing            | 1        |
| 59       | 11-8050  | Slider Ring Collar        | 1        |
| 60       | 11-8080  | Ring — Slider             | 2        |
| 61       | 20-3310  | Hub — Traction Disc       | 1        |
| 62       | 23-4970  | Friction Plate            | 1        |
| 63       | 322-3    | Capscrew                  | 4        |
| 64       | 11-7140  | Shield — Lower            | 1        |
| 65       | 26-5950  | Axle Shaft                | 1        |
| 66       | 3-0737   | Thrust Washer             | 2        |
| 67       | 3257-23  | Key — Hi Pro              | 6        |
| 68       | 256-232  | Bushing                   | 2        |
| 69       | 32149-1  | Locknut                   | 4        |
| 70       | 302-5    | Grease Fitting            | 2        |
| 71       | 25-5190  | Bulkhead (Incl. Ref. #68) | 1        |
| 72       | 5-7410   | Pulley — Drive            | 1        |
| 73       | 23-4950  | Friction Plate Shaft      | 1        |
| 74       | 10-0070  | Bearing Housing           | 2        |
| 75       | 3242-4   | Set Screw                 | 4        |
| 76       | 22-9190  | Spacer                    | 2        |
| 77       | 283-6    | Clevis Pin                | 1        |
| 78       | 7-0846   | Shoulder Bolt             | 1        |

| Ref. No. | Part No. | Description                           | No. Used |
|----------|----------|---------------------------------------|----------|
| 79       | 26-8940  | Roller — Chain Tensioner              | 1        |
| 80       | 11-8940  | Shaft — Friction Wheel                | 1        |
| 81       | 251-260  | Bearing                               | 1        |
| 82       | 12-3270  | Hex Washer Head Thread Forming Screw  | 2        |
| 83       | 323-8    | Capscrew                              | 1        |
| 84       | 20-0010  | Spacer                                | 1        |
| 85       | 8-9139   | Auger Brake Assembly (Incl. Ref. #86) | 1        |
| 86       | 40-8140  | Brake Pad — Molded                    | 1        |
| 87       | 3-8664   | Thrust Washer                         | 3        |
| 88       | 3290-383 | Pushnut                               | 1        |
| 89       | 23-7260  | Lower Chain                           | 1        |
| 90       | 2710-11  | Connecting Link                       | 1        |
| 91       | 23-7230  | Sprocket (Incl. Ref. #70 & 92)        | 1        |
| 92       | 256-215  | Bushing                               | 2        |
| 93       | 23-7250  | Spacer                                | 1        |
| 94       | 5-9430   | Upper Chain                           | 1        |
| 95       | 20-2940  | Bracket — Clutch Rod                  | 1        |
| 96       | 2710-6   | Connecting Link                       | 1        |
| 97       | 3-4244   | Pulley — Idler                        | 1        |
| *        | 8-8419   | Loose Parts (Model 38150)             | 1        |
| *        | 8-8499   | Loose Parts (Model 38160)             | 1        |

\*Not Illustrated

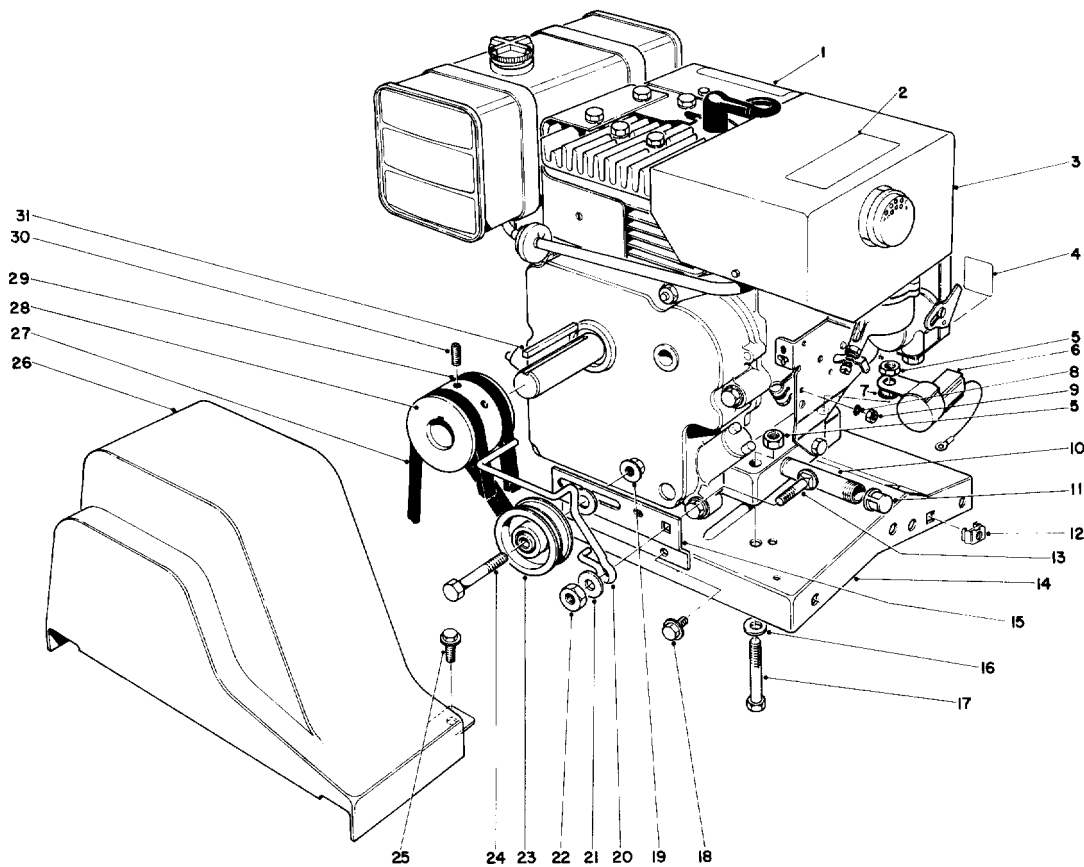


## WHEEL ASSEMBLY

| Ref. No. | Part No. | Description                                  | No. Used |
|----------|----------|----------------------------------------------|----------|
| 1        | 256-205  | Bushing                                      | 2        |
| 2        | 231-92   | Tire                                         | 2        |
| 3        | 232-27   | Valve Stem                                   | 2        |
| 4        | 26-9880  | Wheel & Hub Assembly<br>(Incl. Ref. # 1 & 5) | 2        |

| Ref. No. | Part No. | Description                    | No. Used |
|----------|----------|--------------------------------|----------|
| 5        | 256-117  | Wheel Bushing                  | 2        |
| 6        | 3290-243 | Klip Pin                       | 2        |
| 7        | 3-8664   | Thrust Washer                  | 2        |
| †        | 23-2340  | Tire Chain Optional (Set of 2) | 1        |

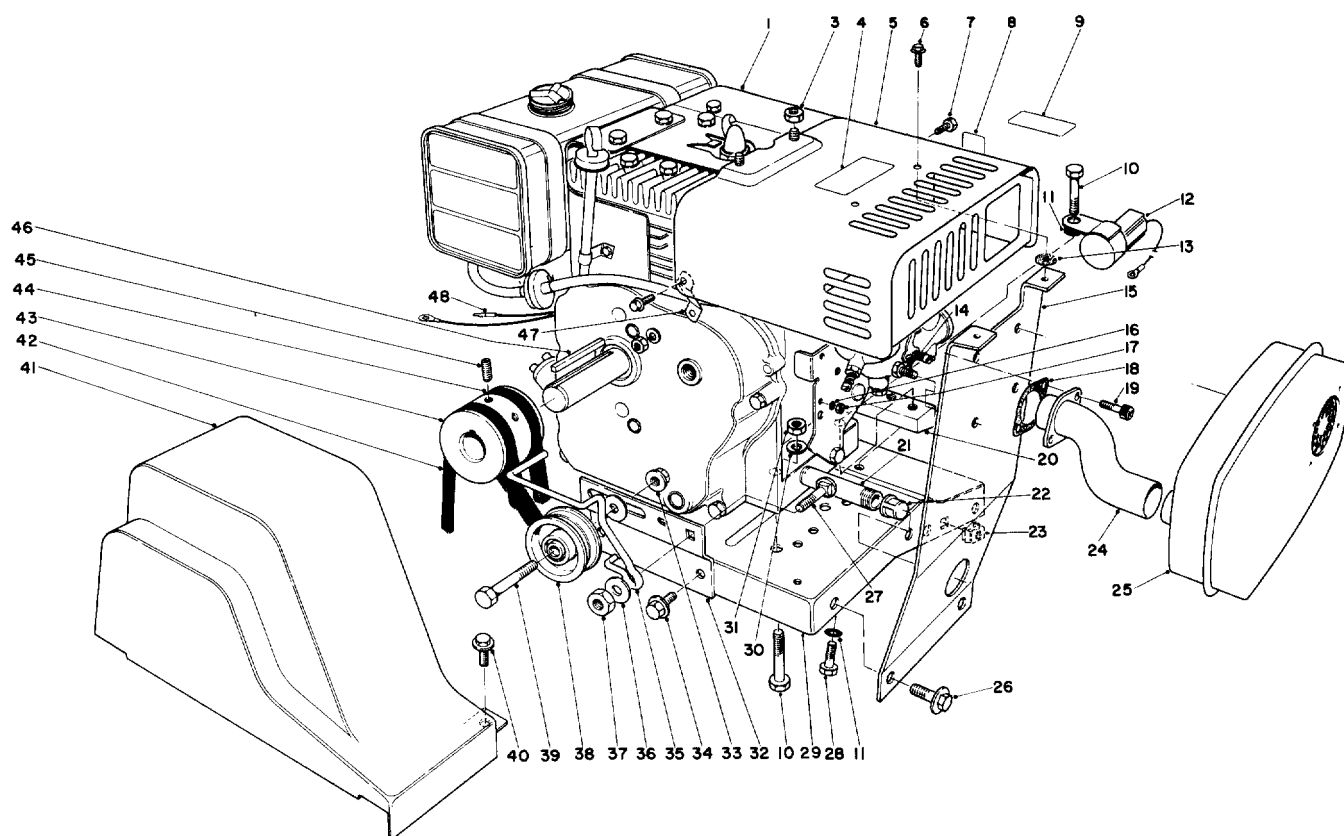
†Optional Equipment



## ENGINE ASSEMBLY (Model 38150)

| Ref. No. | Part No. | Description                 | No. Used | Ref. No. | Part No. | Description                      | No. Used |
|----------|----------|-----------------------------|----------|----------|----------|----------------------------------|----------|
| 1        | 41-8540  | Decal — Hazards Caution     | 1        | 17       | 322-9    | Capscrew                         | 4        |
| 2        | 29-6390  | Decal — Hot Surface Warning | 1        | 18       | 32144-15 | Hex Forming Screw                | 2        |
| 3        | 221-600  | Engine                      | 1        | 19       | 3290-357 | Locknut                          | 1        |
| 4        | 29-6400  | Decal — Choke               | 1        | 20       | 41-8590  | Belt Guide                       | 1        |
| 5        | 3296-29  | Locknut                     | 4        | 21       | 3256-25  | Washer                           | 2        |
| 6        | 41-8610  | Interlock Module            | 1        | 22       | 32146-2  | Locknut                          | 1        |
| 7        | 3254-2   | Int. Tooth Lockwasher       | 1        | 23       | 244-63   | Idler Pulley                     | 1        |
| 8        | 3254-10  | Int. Tooth Lockwasher       | 1        | 24       | 323-8    | Capscrew                         | 1        |
| 9        | 3296-1   | Locknut                     | 1        | 25       | 32144-10 | Self Tapping Screw               | 2        |
| 10       | 289-20   | Pipe Nipple                 | 1        | 26       | 17-6550  | Belt Guard                       | 1        |
| 11       | 288-4    | Pipe Cap                    | 1        | 27       | 26-9670  | V-Belt, Auger                    | 1        |
| 12       | 3290-398 | Retained Nut                | 2        | 28       | 21-4100  | Engine Pulley                    | 1        |
| 13       | 3231-27  | Carriage Bolt               | 1        | 29       | 17-6540  | V-Belt, Traction                 | 1        |
| 14       | 22-9030  | Engine Base                 | 1        | 30       | 3246-14  | Set Screw                        | 2        |
| 15       | 41-8580  | Bracket — Belt Idler        | 1        | 31       | 5-0930   | Key                              | 1        |
| 16       | 3256-23  | Washer                      | 4        | *        | 25-9150  | Decal — Replacement Serial Plate | 1        |

\*Not Illustrated

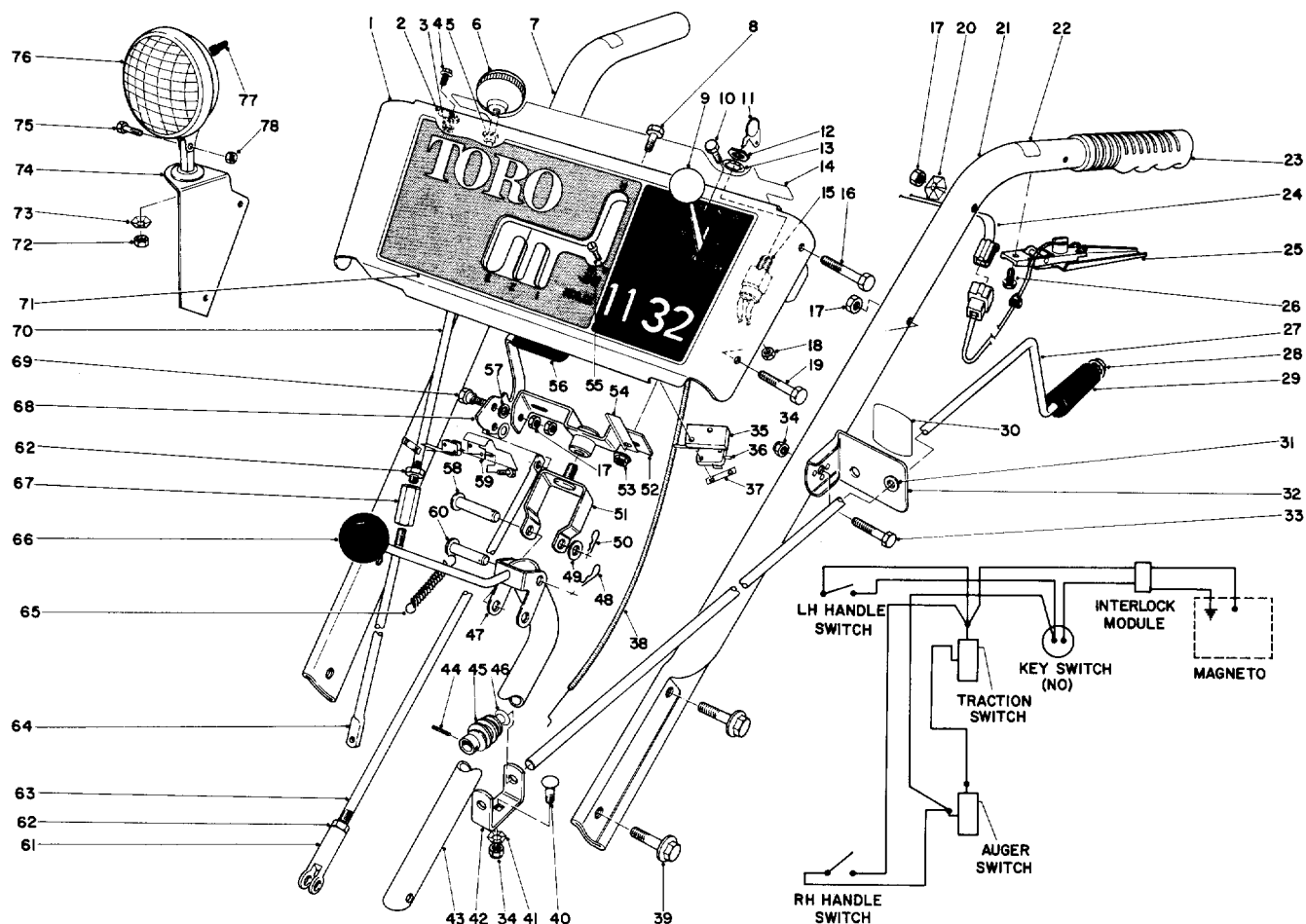


## ENGINE ASSEMBLY (Model 38160)

| Ref. No. | Part No. | Description                 | No. Used |
|----------|----------|-----------------------------|----------|
| 1        | 221-640  | Engine                      | 1        |
| 2        | 41-8540  | Decal — Hazards Caution     | 1        |
| 3        | 32153-3  | Nut                         | 3        |
| 4        | 29-6390  | Decal — Hot Surface Warning | 1        |
| 5        | 39-1780  | Heater Box                  | 1        |
| 6        | 12-3270  | Screw — Special             | 3        |
| 7        | 32144-12 | Screw                       | 1        |
| 8        | 29-6400  | Decal — Choke               | 1        |
| 9        | 42-1740  | Decal Syncro Balance        | 1        |
| 10       | 322-9    | Capscrew                    | 4        |
| 11       | 3254-2   | Int. Tooth Lockwasher       | 5        |
| 12       | 41-8610  | Interlock Module            | 1        |
| 13       | 25-1600  | Washer                      | 2        |
| 14       | 32140-70 | Hex Head Screw              | 4        |
| 15       | 39-1740  | Muffler Mounting Bracket    | 1        |
| 16       | 3254-10  | Int. Tooth Lockwasher       | 1        |
| 17       | 3296-1   | Locknut                     | 1        |
| 18       | 39-1810  | Gasket                      | 1        |
| 19       | 3274-12  | Socket Head Screw           | 2        |
| 20       | 22-8960  | Engine Mounting Block       | 1        |
| 21       | 289-20   | Pipe Nipple                 | 1        |
| 22       | 288-4    | Pipe Cap                    | 1        |
| 23       | 3290-398 | Retained Nut                | 2        |
| 24       | 39-1800  | Exhaust Pipe                | 1        |
| 25       | 27-6610  | Muffler                     | 1        |

| Ref. No. | Part No. | Description                      | No. Used |
|----------|----------|----------------------------------|----------|
| 26       | 323-6    | Hex Flange Screw                 | 2        |
| 27       | 3231-27  | Carriage Bolt                    | 1        |
| 28       | 322-3    | Capscrew                         | 2        |
| 29       | 22-9030  | Engine Base                      | 1        |
| 30       | 3256-23  | Washer                           | 2        |
| 31       | 3296-29  | Locknut                          | 2        |
| 32       | 41-8580  | Bracket — Belt Idler             | 1        |
| 33       | 3290-357 | Locknut                          | 1        |
| 34       | 32144-15 | Hex Forming Screw                | 2        |
| 35       | 41-8590  | Belt Guide                       | 1        |
| 36       | 3256-25  | Washer                           | 2        |
| 37       | 32146-2  | Locknut                          | 1        |
| 38       | 244-63   | Idler Pulley                     | 1        |
| 39       | 323-8    | Capscrew                         | 1        |
| 40       | 32144-10 | Screw — Thread Forming           | 2        |
| 41       | 17-6550  | Belt Guard                       | 1        |
| 42       | 26-9670  | V-Belt, Auger                    | 1        |
| 43       | 21-4100  | Engine Pulley                    | 1        |
| 44       | 17-6540  | V-Belt, Traction                 | 1        |
| 45       | 3246-14  | Set Screw                        | 2        |
| 46       | 5-0930   | Key                              | 1        |
| 47       | 39-1790  | Brace Heater Box                 | 1        |
| 48       | 36-7490  | Wire Assembly                    | 1        |
| *        | 25-9150  | Decal — Replacement Serial Plate | 1        |

\*Not Illustrated

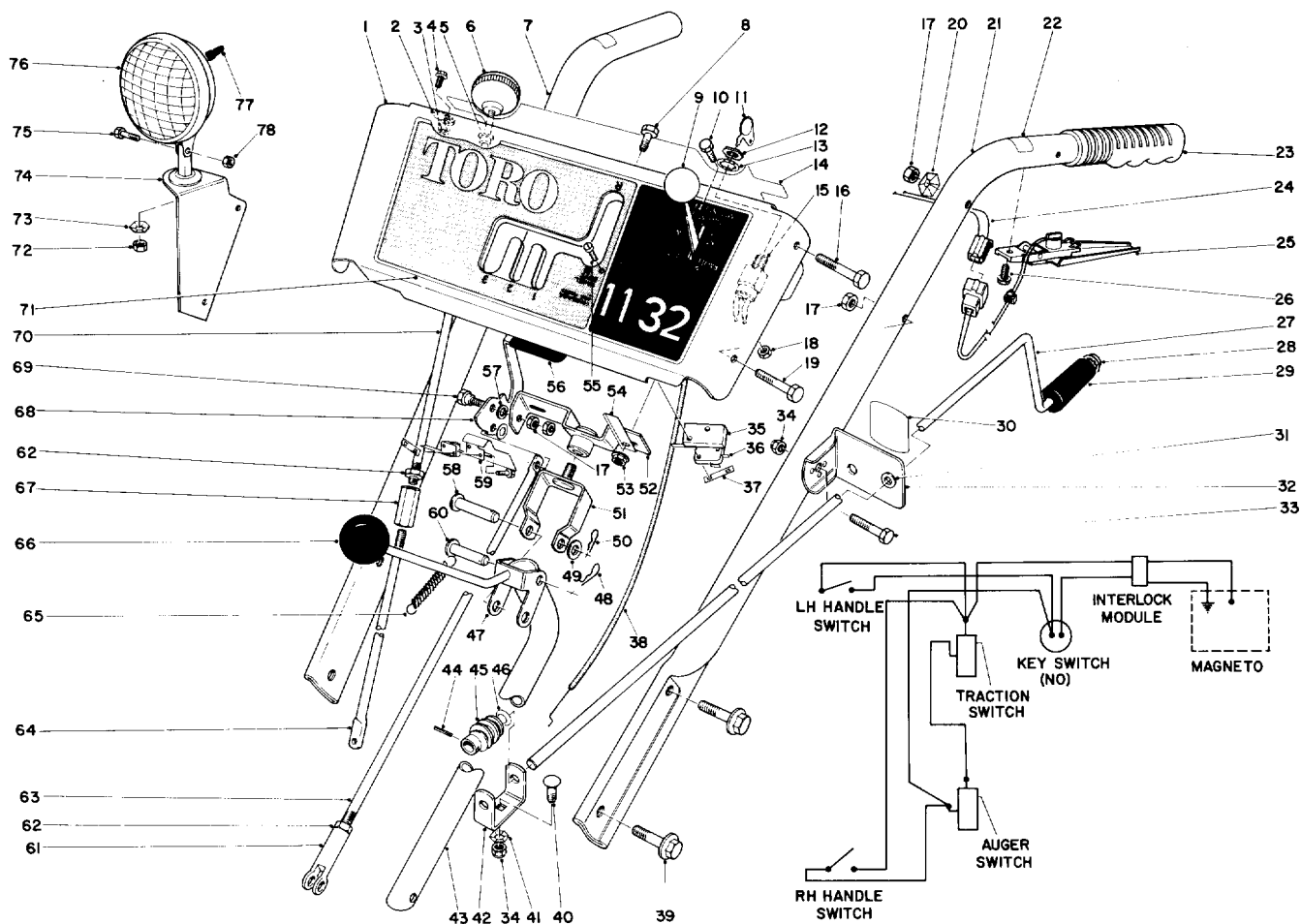


## HANDLE ASSEMBLY

| Ref. No. | Part No. | Description                                          | No. Used |
|----------|----------|------------------------------------------------------|----------|
| 1        | 8-8909   | Escutcheon Plate (Incl. Ref. #13 & 71) (Model 38160) | 1        |
| *        | 8-1559   | Escutcheon Plate (Incl. Ref. #13 & 71) (Model 38150) | 1        |
| 2        | 2412-52  | Clamp                                                | 2        |
| 3        | 32149-7  | Nut                                                  | 2        |
| 4        | 32122-32 | Screw                                                | 2        |
| 5        | 256-240  | Nyliner                                              | 2        |
| 6        | 233-10   | Knob                                                 | 2        |
| 7        | 40-8460  | Handle — Right                                       | 1        |
| 8        | 321-3    | Capscrew                                             | 2        |
| 9        | 233-36   | Knob                                                 | 1        |
| 10       | 32140-99 | Hex Head Screw                                       | 2        |
| 11       | 33-2010  | Keys                                                 | 2        |
| 12       | 218-461  | Hex Nut                                              | 1        |
| 13       | 3254-5   | Lockwasher                                           | 1        |
| 14       | 29-6330  | Decal — Escutcheon Back                              | 1        |
| 15       | 40-8240  | Key Switch                                           | 1        |
| 16       | 321-11   | Capscrew                                             | 2        |
| 17       | 32152-4  | Locknut                                              | 8        |
| 18       | 32146-18 | Locknut                                              | 2        |
| 19       | 321-9    | Capscrew                                             | 2        |
| 20       | 3290-257 | Washer — Pyramidal (Model 38160)                     | 4        |

| Ref. No. | Part No. | Description                                            | No. Used |
|----------|----------|--------------------------------------------------------|----------|
| 20       | 3290-257 | Washer — Pyramidal (Model 38150)                       | 2        |
| 21       | 40-8450  | Handle — Left                                          | 1        |
| 22       | 29-6360  | Decal — Safety Interlock                               | 2        |
| 23       | 6-0450   | Handle Grip                                            | 2        |
| 24       | 40-8640  | Wire Harness                                           | 1        |
| 25       | 40-9690  | Interlock Handle & Switch                              | 2        |
| 26       | 12-3270  | Capscrew                                               | 2        |
| 27       | 41-8640  | Rod Chute Control                                      | 1        |
| 28       | 3290-320 | Push-on Speed Nut                                      | 1        |
| 29       | 40-8230  | Chute Control Grip                                     | 1        |
| 30       | 29-6370  | Decal — Chute Direction                                | 1        |
| 31       | 256-249  | Nyliner                                                | 1        |
| 32       | 6-3069   | Bracket — Chute Control Mounting (Incl. Ref. #30 & 31) | 1        |
| 33       | 322-9    | Capscrew                                               | 1        |
| 34       | 3296-29  | Locknut                                                | 2        |
| 35       | 22-7950  | Pad — Switch Mounting                                  | 1        |
| 36       | 40-8200  | Micro Switch                                           | 2        |
| 37       | 3290-354 | Speed Nut                                              | 2        |
| 38       | 8-7790   | Throttle Control                                       | 1        |
| 39       | 3234-1   | Flange Screw                                           | 4        |
| 40       | 3230-2   | Carriage Bolt                                          | 1        |
| 41       | 3290-238 | Pyramidal Washer                                       | 1        |

\*Not Illustrated



## HANDLE ASSEMBLY (Continued)

| Ref. No. | Part No. | Description          | No. Used |
|----------|----------|----------------------|----------|
| 42       | 11-7110  | Bracket — Worm       | 1        |
| 43       | 29-6450  | Rod — Traction Shift | 1        |
| 44       | 32121-50 | Roll Pin             | 1        |
| 45       | 8-8600   | Worm Gear — Chute    | 1        |
| 46       | 3290-212 | Spring Washer        | 1        |
| 47       | 26-9370  | Shift Rod            | 1        |
| 48       | 3290-307 | Hair Pin Cotter      | 1        |
| 49       | 3256-6   | Washer               | 1        |
| 50       | 3290-322 | Hair Pin Cotter      | 1        |
| 51       | 29-6490  | Pivot Bracket        | 1        |
| 52       | 8-7930   | Swivel Block         | 1        |
| 53       | 32128-10 | Flange Locknut       | 2        |
| 54       | 26-9410  | Retainer — Wire      | 1        |
| 55       | 3290-313 | Machine Screw        | 4        |
| 56       | 11-8970  | Grip — Auger Handle  | 1        |
| 57       | 3256-23  | Washer               | 2        |
| 58       | 283-5    | Clevis Pin           | 1        |
| 59       | 22-9300  | Bracket — Switch     | 1        |
| 60       | 283-15   | Clevis Pin           | 1        |
| 61       | 39-4640  | Clevis               | 1        |
| 62       | 3220-3   | Jam Nut              | 3        |

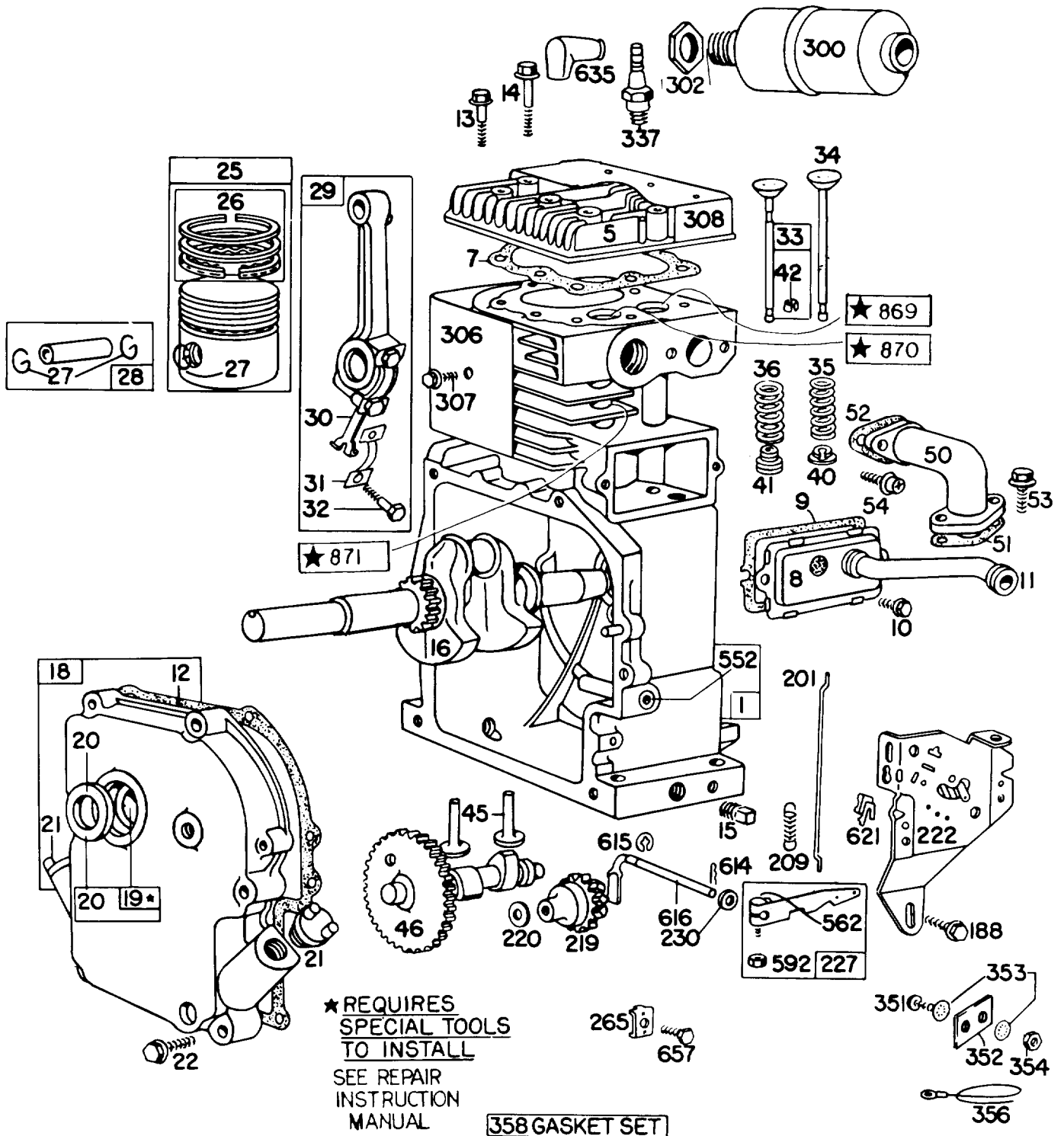
| Ref. No. | Part No. | Description                      | No. Used |
|----------|----------|----------------------------------|----------|
| 63       | 29-6460  | Drag Link                        | 1        |
| 64       | 22-7070  | Rod — Wheel Clutch, Lower        | 2        |
| 65       | 8-9900   | Spring — Control Rod             | 1        |
| 66       | 233-21   | Knob                             | 1        |
| 67       | 22-7940  | Coupling — Wheel Clutch Rod      | 2        |
| 68       | 17-6620  | Handle — Auger Clutch            | 1        |
| 69       | 11-9030  | Shoulder Bolt                    | 2        |
| 70       | 29-6470  | Rod — Wheel Clutch               | 2        |
| 71       | 37-0290  | Decal — Escutcheon (Model 38160) | 1        |
| *        | 29-6310  | Decal — Escutcheon (Model 38150) | 1        |
| 72       | 3219-3   | Nut (Model 38160)                | 1        |
| 73       | 3290-224 | Pyramidal Washer (Model 38160)   | 1        |
| 74       | 22-9390  | Lamp Mount (Model 38160)         | 1        |
| 75       | 321-5    | Capscrew (Model 38160)           | 1        |
| 76       | 22-9380  | Headlamp Assy. (Model 38160)     | 1        |
| 77       | 218-473  | Switch Boot (Model 38160)        | 1        |
| 78       | 32153-4  | Locknut (Model 38160)            | 1        |
| *        | 3290-378 | Cable Tie                        | 2        |

\*Not Illustrated

# ENGINE BRIGGS & STRATTON MODEL NO. 190402

## TYPE 0989-01

### (8 H.P. SNOWTHROWER MODEL 38150)



# ENGINE BRIGGS & STRATTON MODEL NO. 190402

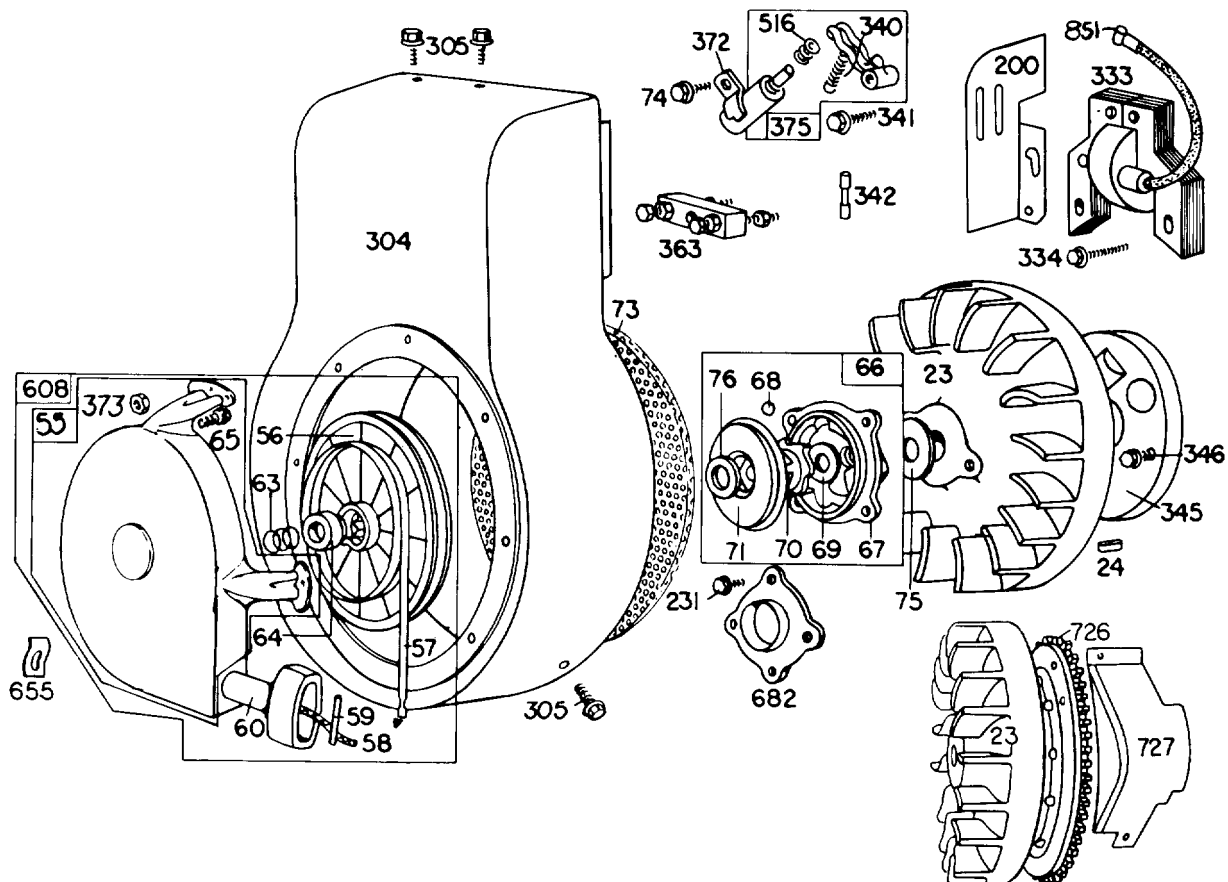
## TYPE 0989-01

### (8 H.P. SNOWTHROWER MODEL 38150)

| Ref. No. | Part No. | Description                                                                                                 | No. Used |
|----------|----------|-------------------------------------------------------------------------------------------------------------|----------|
| 1        | 392001   | Cylinder Assembly                                                                                           | 1        |
| 5        | 211778   | Head — Cylinder                                                                                             | 1        |
| 7        | *270430  | Gasket — Cylinder Hd.                                                                                       | 1        |
| 8        | 390321   | Breather Assembly                                                                                           | 1        |
| 9        | *27803   | Gasket — Valve Cover                                                                                        | 1        |
| 10       | 93536    | Screw                                                                                                       | 1        |
| 11       | 67068    | Tube — Breather                                                                                             | 1        |
| 12       | *27750   | Gasket — Crankcase Cover — 1/64" thick                                                                      | 1        |
|          | *27876   | Gasket — Crankcase Cover — .005" thick                                                                      | 1        |
|          | *27877   | Gasket — Crankcase Cover — .009" thick                                                                      | 1        |
| 13       | 93113    | Screw — Cylinder Head (2-5/16" long)                                                                        | 1        |
| 14       | 93211    | Screw — Cylinder Head (2-21/32" long)                                                                       | 1        |
| 15       | 91084    | Plug — Oil Drain                                                                                            | 1        |
| 16       | 261077   | Crankshaft                                                                                                  | 1        |
| 18       | 299167   | Cover Assembly — Crankcase                                                                                  | 1        |
| 19       | 295964   | Bushing — Crankcase Cover<br>Note: Requires special tools for installation.                                 | 1        |
| 20       | 298423   | Seal — Oil                                                                                                  | 1        |
| 21       | 66768    | Plug — Oil Filler                                                                                           | 1        |
| 22       | 93585    | Screw — Crankcase Cover Mounting                                                                            | 1        |
| 25       | 391673   | Piston Assembly — Standard                                                                                  | 1        |
|          | 391674   | Piston Assembly — .010" O.S.                                                                                | 1        |
|          | 391675   | Piston Assembly — .020" O.S.                                                                                | 1        |
|          | 391676   | Piston Assembly — .030" O.S.                                                                                | 1        |
|          |          | <b>PISTON RING SETS:</b><br>Note: For Chrome Ring Set — Standard Size — order No. 299743                    |          |
| 26       | 391669   | Ring Set — Piston — Standard                                                                                | 1        |
|          | 391670   | Ring Set — Piston — .010" O.S.                                                                              | 1        |
|          | 391671   | Ring Set — Piston — .020" O.S.                                                                              | 1        |
|          | 391672   | Ring Set — Piston — .030" O.S.                                                                              | 1        |
| 27       | 68546    | Lock — Piston Pin                                                                                           | 1        |
| 28       | 295840   | Pin Assembly — Piston — Standard                                                                            | 1        |
|          | 295841   | Pin Assembly — Piston — .005" O.S.                                                                          | 1        |
| 29       | 390401   | Rod Assembly — Connecting<br>Note: For Connecting Rod with .020" undersize Crankpin Bore — Order No. 390773 | 1        |
| 30       | 222113   | Dipper — Connecting Rod                                                                                     | 1        |
| 31       | 222114   | Lock — Connecting Rod Screw                                                                                 | 1        |
| 32       | 92659    | Screw — Connecting Rod                                                                                      | 1        |
| 33       | 390419   | Valve — Exhaust                                                                                             | 1        |
| 34       | 261055   | Valve — Intake                                                                                              | 1        |
| 35       | 65906    | Spring — Intake Valve                                                                                       | 1        |
| 36       | 26828    | Spring — Exhaust Valve                                                                                      | 1        |
| 40       | 221596   | Retainer — Intake Valve                                                                                     | 1        |
| 41       | 292260   | Rotocoil — Exhaust Valve                                                                                    | 1        |

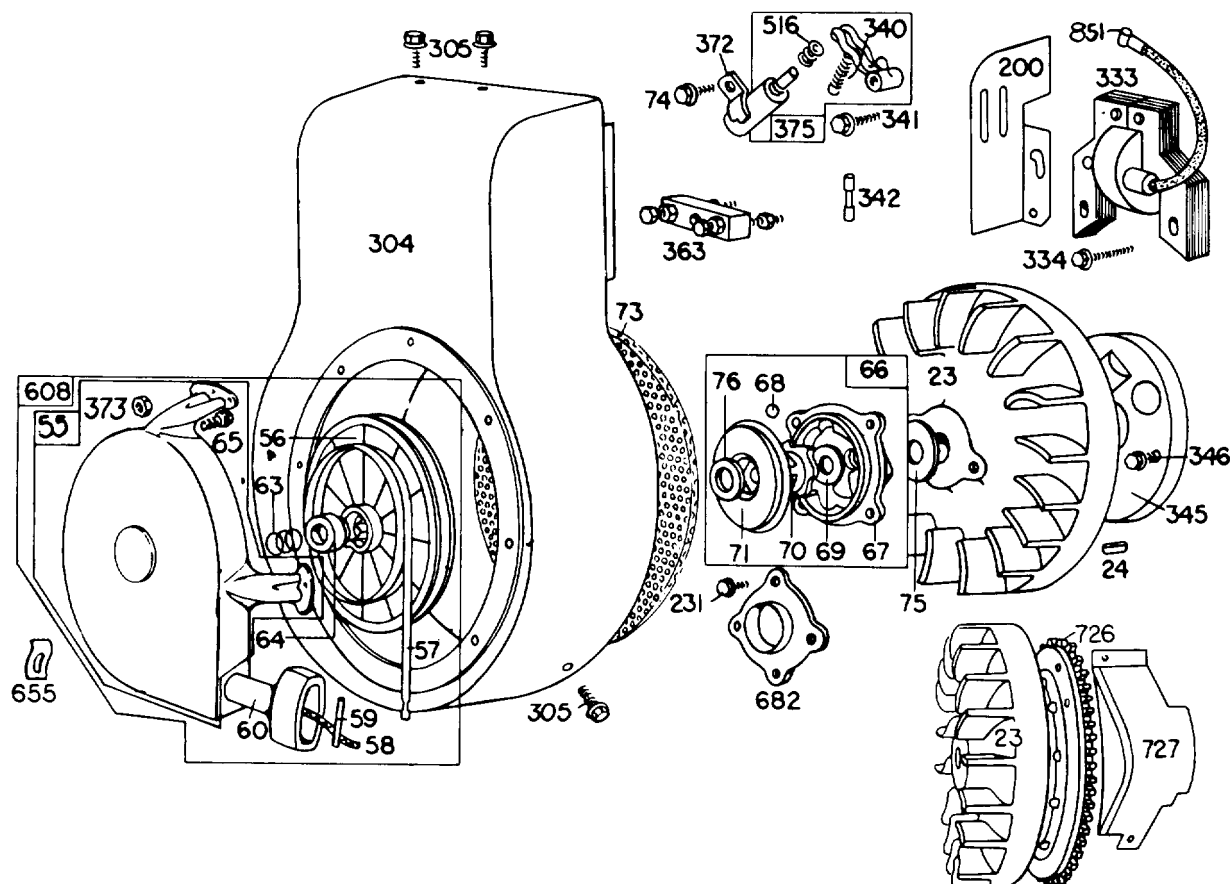
| Ref. No. | Part No. | Description                                                                                                         | No. Used |
|----------|----------|---------------------------------------------------------------------------------------------------------------------|----------|
| 42       | 93630    | Retainer — Exh. Valve Rotocoil                                                                                      | 2        |
| 45       | 260933   | Tappet — Valve                                                                                                      | 1        |
| 46       | 211689   | Gear — Cam                                                                                                          | 1        |
| 50       | 211812   | Elbow — Intake                                                                                                      | 1        |
| 51       | *270684  | Gasket — Carb. Mtg.                                                                                                 | 1        |
| 52       | *27828   | Gasket — Intake Elbow Mounting                                                                                      | 1        |
| 53       | 93128    | Screw — Carburetor Mounting                                                                                         | 1        |
| 54       | 93208    | Screw — Intake Elbow Mounting                                                                                       | 1        |
| 188      | 93535    | Screw                                                                                                               | 1        |
| 201      | 260872   | Link — Governor                                                                                                     | 1        |
| 209      | 261126   | Spring — Governor                                                                                                   | 1        |
| 219      | 391737   | Gear — Governor                                                                                                     | 1        |
| 220      | 221551   | Washer — Thrust                                                                                                     | 1        |
| 222      | 390670   | Plate — Gov. Control                                                                                                | 1        |
| 227      | 391965   | Lever Assembly — Governor                                                                                           | 1        |
| 230      | 222450   | Washer — Governor Crank                                                                                             | 1        |
| 265      | 221535   | Clamp — Casing Note: 220680 Washer — Flat used between Clamp and Insulator.                                         | 1        |
| 300      | 393010   | Muffler — Exhaust                                                                                                   | 1        |
| 302      | 91242    | Locknut — Muffler and Elbow                                                                                         | 1        |
| 306      | 221898   | Shield — Cylinder                                                                                                   | 1        |
| 307      | 93163    | Screw — Cylinder Shield Mtg.                                                                                        | 1        |
| 308      | 221901   | Cover — Cylinder Head                                                                                               | 1        |
| 337      | 293918   | Plug — Spark (1-1/2" high — 37-42 M.M.) (Resistor Type)<br>Note: Spark Plugs use Ignition Cable Terminal No. 221798 | 1        |
| 351      | 90200    | Screw — Terminal                                                                                                    | 1        |
| 352      | 66895    | Insulator                                                                                                           | 1        |
| 353      | 92791    | Washer — Lock — Shakeproof                                                                                          | 3        |
| 354      | 90576    | Nut — Hex.                                                                                                          | 2        |
| 356      | 299500   | Wire — Ground Note: 391255 Wire — Jumper used in addition to No. 299500 Ground Wire                                 | 1        |
| 358      | 299577   | Gasket Set                                                                                                          | 1        |
| 552      | 231056   | Bushing — Governor Crank                                                                                            | 1        |
| 562      | 92613    | Bolt — Governor Lever                                                                                               | 1        |
| 592      | 231082   | Nut — Hex.                                                                                                          | 1        |
| 614      | 93306    | Cotter — Hair Pin                                                                                                   | 1        |
| 615      | 93307    | Retainer — E-Ring                                                                                                   | 1        |
| 616      | 231057   | Crank — Governor                                                                                                    | 1        |
| 621      | 297472   | Switch — Stop                                                                                                       | 1        |
| 635      | 66538    | Elbow — Spark Plug                                                                                                  | 1        |
| 657      | 93496    | Screw                                                                                                               | 1        |
| 869      | 211661   | Insert — Intake Valve Seat (Standard)                                                                               | 1        |
| 870      | 211661   | Insert — Exhaust Valve Seat (Standard)                                                                              | 1        |
| 871      | 230655   | Guide — Valve                                                                                                       | 1        |

\*Included in Gasket Set — Part No. 299577



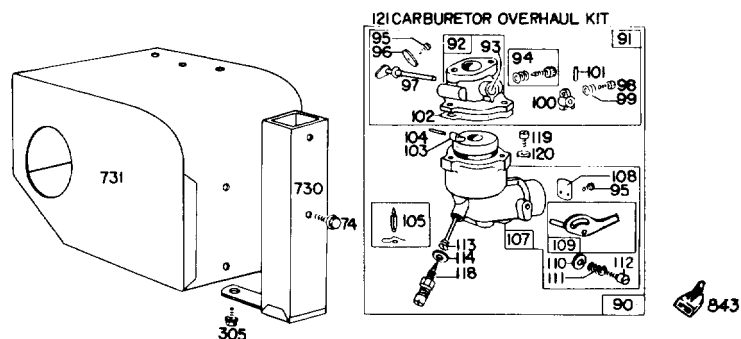
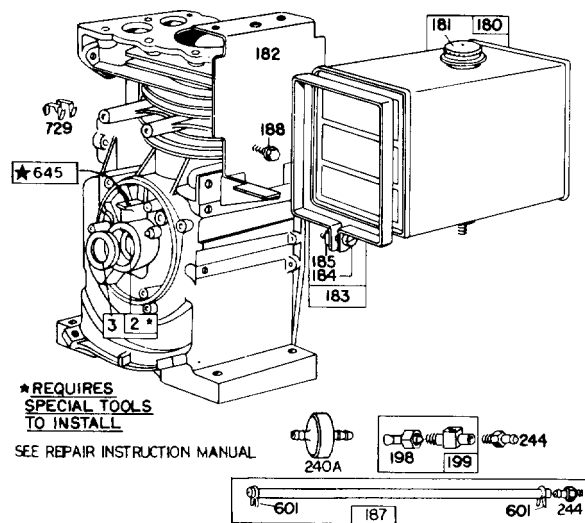
## ENGINE BRIGGS & STRATTON MODEL NO. 190402 TYPE 0989-01 (8 H.P. SNOWTHROWER MODEL 38150)

| Ref. No. | Part No. | Description                                                                                                                                                                                  | No. Used | Ref. No. | Part No. | Description                                                                                                                                                        | No. Used |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 23       | 392034   | Flywheel and Ring Gear Assy. — Magneto. For use only on electric starter engines WITHOUT ALTERNATOR (Includes aluminum ring gear). For use only with starter motors with Plastic Drive Gear. | 1        | 63       | 260414   | Spring — Ratchet                                                                                                                                                   | 1        |
| 24       | 61760    | Key — Flywheel                                                                                                                                                                               | 1        | 64       | 230543   | Adapter — Ratchet Spring                                                                                                                                           | 1        |
| 55       | 393576   | Housing — Rewind Starter                                                                                                                                                                     | 1        | 65       | 93067    | Screw — Stamped Steel Rewind Starter Housing Mounting                                                                                                              |          |
| 56       | 295871   | Pulley — Rewind Starter<br>Note: Includes 63" rope; if longer rope is required, order rope No. 66894 and cut to required length.                                                             | 1        |          |          | Note: 93572 Screw — Cast Rewind Starter Housing Mounting 230796 Nut — Starter Mounting (4) 92290 Washer — Lock (4). Used on type Nos. 0152, 0651, 0668, 0688, 0743 | 1        |
| 57       | 294303   | Spring — Rewind Starter                                                                                                                                                                      | 1        | 66       | 393117   | Clutch Assy. — Rewind Starter                                                                                                                                      | 1        |
| 58       | 66884    | Rope — Rewind Starter — 63" long. For use with Plastic Pulley; if longer rope is needed, order No. 66894 and cut to required length.                                                         | 1        | 67       | 261453   | Housing — Rewind Starter Clutch                                                                                                                                    | 1        |
| 59       | 230228   | Pin — Starter Grip                                                                                                                                                                           | 1        | 68       | 63770    | Ball — Clutch                                                                                                                                                      | 1        |
| 60       | 66728    | Grip — Starter Rope                                                                                                                                                                          | 1        | 69       | 66718    | Washer — Starter Clutch, Thrust                                                                                                                                    | 1        |
|          |          |                                                                                                                                                                                              |          | 70       | 298799   | Ratchet — Rewind Starter Clutch                                                                                                                                    | 1        |
|          |          |                                                                                                                                                                                              |          | 71       | 221653   | Washer — Retainer                                                                                                                                                  | 1        |
|          |          |                                                                                                                                                                                              |          | 73       | 221796   | Screen — Rewind Starter                                                                                                                                            | 1        |
|          |          |                                                                                                                                                                                              |          | 74       | 93042    | Screw                                                                                                                                                              | 1        |
|          |          |                                                                                                                                                                                              |          | 75       | 220865   | Washer — Spring                                                                                                                                                    | 1        |
|          |          |                                                                                                                                                                                              |          | 76       | 68238    | Washer — Ratchet Sealing                                                                                                                                           | 1        |
|          |          |                                                                                                                                                                                              |          | 200      | 221760   | Guide — Air                                                                                                                                                        | 1        |
|          |          |                                                                                                                                                                                              |          | 231      | 93064    | Screw                                                                                                                                                              | 1        |
|          |          |                                                                                                                                                                                              |          | 304      | 390516   | Housing — Blower                                                                                                                                                   | 1        |



## ENGINE BRIGGS & STRATTON MODEL NO. 190402 TYPE 0989-01 (Continued) (8 H.P. SNOWTHROWER MODEL 38150)

| Ref. No. | Part No. | Description                                                                                                              | No. Used | Ref. No. | Part No. | Description                                                                                               | No. Used |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-----------------------------------------------------------------------------------------------------------|----------|
| 305      | 93158    | Screw                                                                                                                    | 1        | 516      | 260374   | Spring – Connector                                                                                        | 1        |
| 333      | 298968   | Armature Assembly                                                                                                        | 1        | 608      | 390391   | Starter Assembly – Rewind<br>Note: For Starter Assembly with longer than standard Rope – order No. 299640 | 1        |
| 334      | 93381    | Screw – Armature Mounting                                                                                                | 1        | 655      | 222598   | Anchor – Spring                                                                                           | 1        |
| 340      | 26018    | Spring – Breaker Arm                                                                                                     | 1        | 682      | 211516   | Shield – Starter Clutch                                                                                   | 1        |
| 341      | 93381    | Screw – Breaker Arm Mounting                                                                                             | 1        | 726      | 392134   | Gear – Ring (Aluminum – includes Mounting Parts)                                                          | 1        |
| 342      | 65704    | Plunger – Breaker Point                                                                                                  | 1        | 727      | 221940   | Guard – Ring Gear Uses:<br>93623 Screw (2)<br>90366 Lockwasher (2)<br>Used to mount Guard                 | 1        |
| 345      | 222170   | Cover – Breaker Point                                                                                                    | 1        | 851      | 221798   | Terminal – Cable                                                                                          | 1        |
| 346      | 93014    | Screw                                                                                                                    | 1        |          |          |                                                                                                           |          |
| 363      | 19203    | Puller – Flywheel (Optional Accessory)                                                                                   | 1        |          |          |                                                                                                           |          |
| 372      | 220477   | Clamp – Condenser                                                                                                        | 1        |          |          |                                                                                                           |          |
| 373      | 92987    | Nut – Hex                                                                                                                | 1        |          |          |                                                                                                           |          |
| 375      | 294628   | Breaker Points and Condenser Set Note: 299061 Ignition Kit Includes: 294628 Point Set 65704 Plunger 61760 Key – Flywheel | 1        |          |          |                                                                                                           |          |

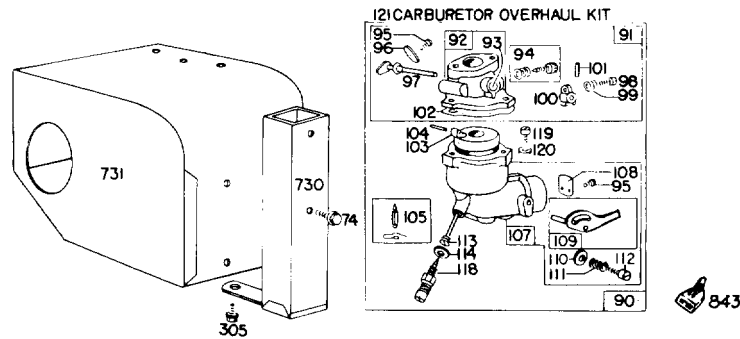
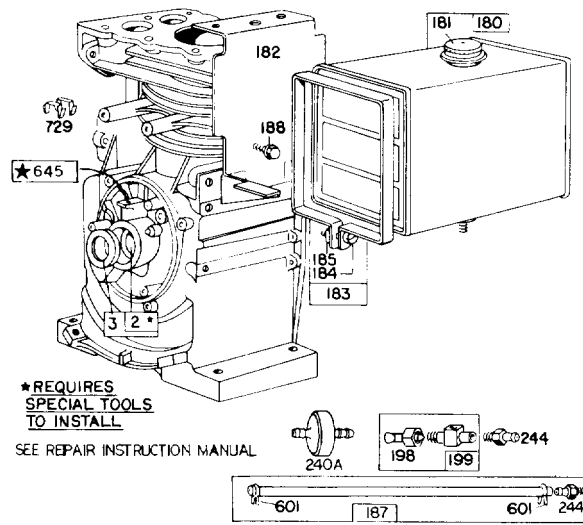


## ENGINE BRIGGS & STRATTON MODEL NO. 190402 TYPE 0989-01 (8 H.P. SNOWTHROWER MODEL 38150)

| Ref. No. | Part No. | Description                                                          | No. Used |
|----------|----------|----------------------------------------------------------------------|----------|
| 2        | 295962   | Bushing — Cylinder<br>Note: Requires special tools for installation. | 1        |
| 3        | 294606   | Seal — Oil                                                           | 1        |
| 74       | 93042    | Screw                                                                | 1        |
| 90       | 391889   | Carburetor Assembly                                                  | 1        |
| 91       | 390404   | Body Assembly — Upper Carburetor                                     | 1        |
| 92       | 390503   | Body — Upper Carb.                                                   | 1        |
| 93       | 23108    | Bushing — Throttle Shaft                                             | 1        |
| 94       | †292681  | Valve Assembly — Carburetor Idle                                     | 1        |
| 95       | 93499    | Screw — Throttle and Choke Valve Mtg.                                | 1        |
| 96       | 62940    | Valve — Throttle                                                     | 1        |
| 97       | 298826   | Shaft and Lever — Throttle                                           | 1        |
| 98       | 91920    | Screw — Machine, Fil. Hd.                                            | 1        |
| 99       | 26157    | Spring — Throttle Adjustment                                         | 1        |
| 100      | 61967    | Stop — Throttle                                                      | 1        |
| 101      | 93043    | Pin — Throttle Stop                                                  | 1        |
| 102      | †27918   | Gasket — Carburetor Body                                             | 1        |
| 103      | 99333    | Float — Carburetor                                                   | 1        |
| 104      | †230896  | Pin — Float Hinge                                                    | 1        |

| Ref. No. | Part No. | Description                          | No. Used |
|----------|----------|--------------------------------------|----------|
| 105      | 299096   | Valve — Fuel Inlet                   | 1        |
| 107      | 391909   | Body Assy. — Lower Carburetor        | 1        |
| 108      | 62872    | Valve — Choke                        | 1        |
| 109      | 391888   | Shaft and Lever — Choke              | 1        |
| 110      | 62899    | Washer — Choke Lever                 | 1        |
| 111      | 26155    | Spring — Choke Lever                 | 1        |
| 112      | 23123    | Screw — Choke Lever                  | 1        |
| 113      | †390395  | Nozzle — Carburetor                  | 1        |
| 114      | †68667   | Gasket — Nozzle                      | 1        |
| 118      | †99525   | Valve — Needle                       | 1        |
| 119      | 90746    | Screw — Machine, Fil. Hd.            | 1        |
| 120      | 92290    | Washer — Lock                        | 1        |
| 121      | 295938   | Carburetor Overhaul Kit              | 1        |
| 180      | 290816   | Tank Assembly — Fuel (4 qt)          | 1        |
| 181      | 297866   | Cap — Fuel Tank                      | 1        |
| 182      | 221935   | Bracket — Fuel Tank                  | 1        |
| 183      | 291367   | Strap Assembly — Fuel Tank           | 1        |
| 184      | 91257    | Screw — Machine, Fil. Hd.            | 1        |
| 185      | 90970    | Nut — Square                         | 1        |
| 187      | 391498   | Pipe — Fuel (Flexible) 17-7/16" long | 1        |
| 188      | 93535    | Screw                                | 1        |
| 198      | 293934   | Valve — Fuel Shut-Off                | 1        |

†Included in Carburetor Overhaul Kit — Part No. 295938

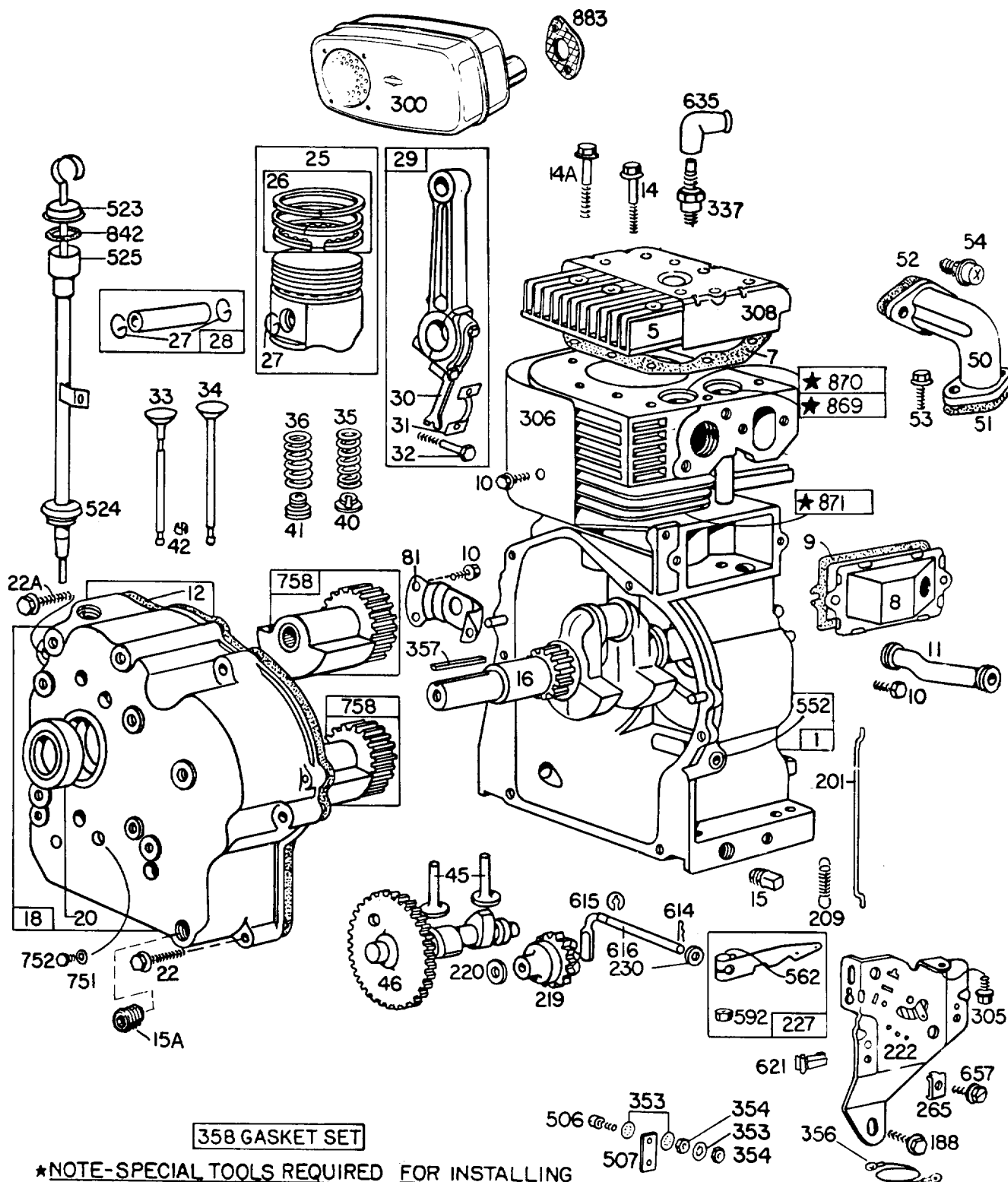


## ENGINE BRIGGS & STRATTON MODEL NO. 190402 TYPE 0989-01 (Continued) (8 H.P. SNOWTHROWER MODEL 38150)

| Ref. No. | Part No. | Description                  | No. Used |
|----------|----------|------------------------------|----------|
| 199      | 297563   | Outlet — Fuel Tank           | 1        |
| 240A     | 298090   | Filter — Fuel (In Fuel Pipe) | 1        |
| 244      | 230318   | Connector — Fuel Pipe        | 1        |
| 305      | 93158    | Screw                        | 1        |
| 601      | 93053    | Clamp — Fuel Pipe            | 1        |

| Ref. No. | Part No. | Description                                  | No. Used |
|----------|----------|----------------------------------------------|----------|
| 729      | 221907   | Clip — Wire                                  | 1        |
| 730      | 299384   | Stack — Carb.                                | 1        |
| 731      | 299391   | Hood — Snow                                  | 1        |
| 843      | 280147   | Knob — Choke Lever<br>(For Sno-Gard Engines) | 1        |

**ENGINE BRIGGS & STRATTON MODEL NO. 252416**  
**TYPE NO. 0190-01**  
**(11 H.P. SNOWTHROWER MODEL 38160)**



# ENGINE BRIGGS & STRATTON MODEL NO. 252416

## TYPE NO. 0190-01

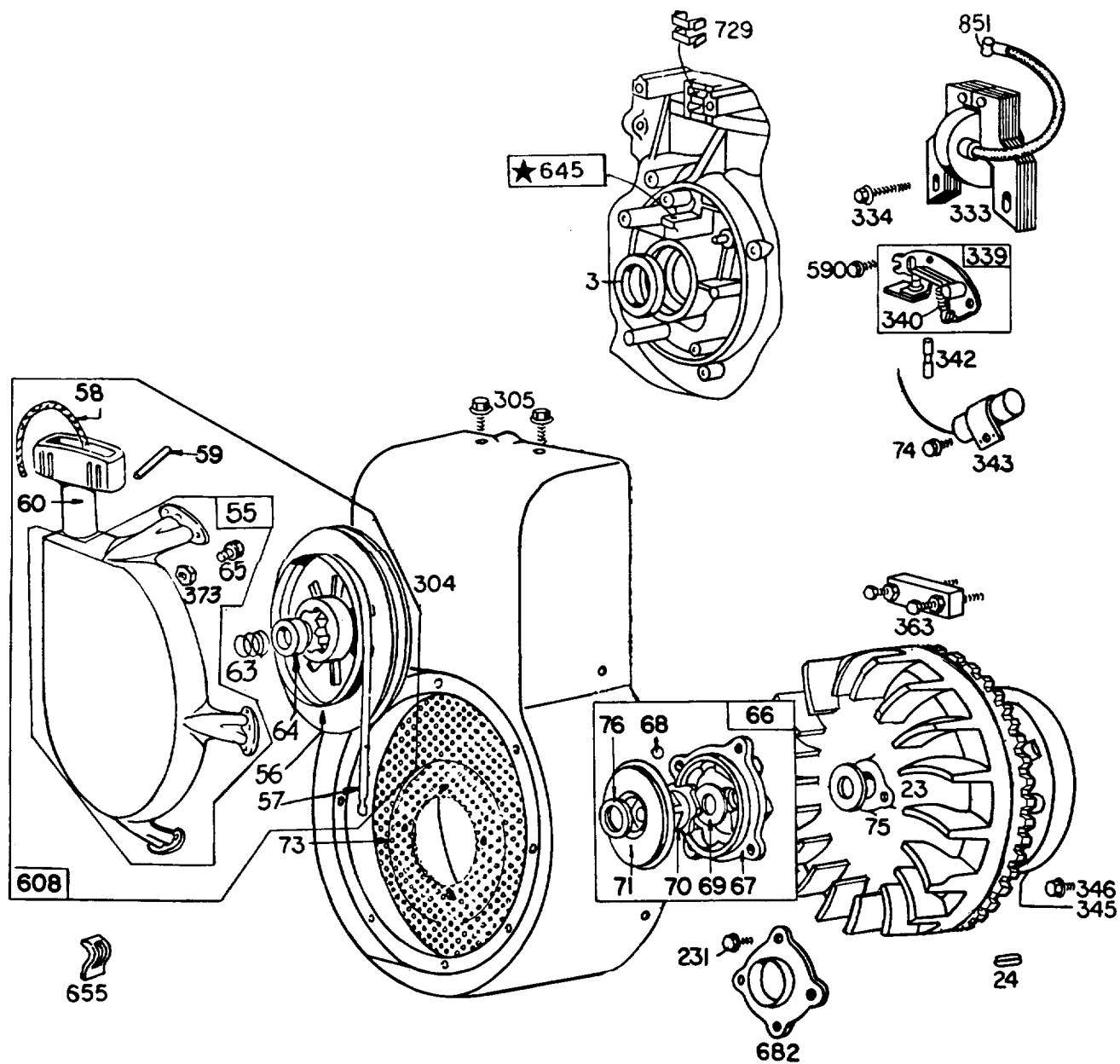
### (11 H.P. SNOWTHROWER MODEL 38160)

| Ref. No. | Part No. | Description                                                                     | No. Used |
|----------|----------|---------------------------------------------------------------------------------|----------|
| 1        | 393413   | Cylinder Assembly                                                               | 1        |
| 5        | 212305   | Head — Cylinder                                                                 | 1        |
| 7        | 271075   | Gasket — Cylinder Hd.                                                           | 1        |
| 8        | 391575   | Breather Assembly                                                               | 1        |
| 9        | *27803   | Gasket — Valve Cover                                                            | 1        |
| 10       | 93394    | Screw                                                                           | 1        |
| 11       | 280112   | Tube — Breather                                                                 | 1        |
| 12       | *270856  | Gasket — Crankcase Cover — 1/64" Thick                                          | 1        |
|          | *270857  | Gasket — Crankcase Cover — .005" Thick                                          | 1        |
|          | *270858  | Gasket — Crankcase Cover — .009" Thick                                          | 1        |
| 14       | 93723    | Screw — Cylinder Head (3" Long)                                                 | 1        |
| 14A      | 93211    | Screw — Cylinder Head (2-21/32" Long)                                           | 6        |
|          |          | Note: 83781 Stud — Cylinder Hd. — 22963 Washer                                  |          |
| 15       | 91084    | Plug — Oil Drain                                                                | 1        |
| 15A      | 93418    | Plug — Hex. Socket                                                              | 1        |
| 16       | 261336   | Crankshaft                                                                      | 1        |
| 18       | 391747   | Cover Assembly — Crankcase                                                      | 1        |
| 20       | 291675   | Seal — Oil                                                                      | 1        |
| 22       | 93585    | Screw — Crankcase Cover Mtg.                                                    | 5        |
|          |          | Note: 93730 Stud — Crankcase Cover Mtg.                                         | 1        |
|          |          | 90366 Washer-Lock                                                               | 1        |
| 22A      | 93764    | Screw — Crankcase Cover Mounting (2-1/8" Long)                                  | 1        |
| 25       | 391285   | Piston Assembly — Standard                                                      | 1        |
|          | 391287   | Piston Assembly — .010" O.S.                                                    | 1        |
|          | 391288   | Piston Assembly — .020" O.S.                                                    | 1        |
|          | 391289   | Piston Assembly — .030" O.S.                                                    | 1        |
|          |          | <b>PISTON RING SETS:</b>                                                        |          |
| 26       | 391780   | Ring Set — Piston — Standard                                                    | 1        |
|          | 391781   | Ring Set — Piston — .010" O.S.                                                  | 1        |
|          | 391782   | Ring Set — Piston — .020" O.S.                                                  | 1        |
|          | 391783   | Ring Set — Piston — .030" O.S.                                                  | 1        |
| 27       | 260924   | Lock — Piston Pin                                                               | 1        |
| 28       | 299691   | Pin Assembly — Piston — Standard                                                | 1        |
|          | 391286   | Pin Assembly — Piston — .005" O.S.                                              | 1        |
| 29       | 391816   | Rod Assembly — Connecting                                                       | 1        |
|          |          | Note: For Connecting Rod with .020" undersize Crankpin Bore — Order No. 393712. |          |
| 30       | 222329   | Dipper — Connecting Rod                                                         | 1        |
| 31       | 222299   | Lock — Connecting Rod Screw                                                     | 1        |
| 32       | 92909    | Screw — Connecting Rod                                                          | 1        |
| 33       | 261185   | Valve — Exhaust                                                                 | 1        |
| 34       | 261462   | Valve — Intake                                                                  | 1        |
| 35       | 65906    | Spring — Intake Valve                                                           | 1        |
| 36       | 26828    | Spring — Exhaust Valve                                                          | 1        |
| 40       | 221596   | Retainer — Intake Valve                                                         | 1        |
| 41       | 292260   | Rotocoil — Exhaust Valve                                                        | 1        |
| 42       | 93630    | Retainer — Exhaust Valve Rotocoil                                               | 2        |
| 45       | 261183   | Tappet — Valve                                                                  | 1        |
| 46       | 212296   | Gear — Cam                                                                      | 1        |
| 50       | 212301   | Elbow — Intake                                                                  | 1        |

| Ref. No. | Part No. | Description                                                           | No. Used |
|----------|----------|-----------------------------------------------------------------------|----------|
| 51       | *270267  | Gasket — Carb. Mtg.                                                   | 1        |
| 52       | *270872  | Gasket — Intake Elbow Mounting                                        | 1        |
| 53       | 93415    | Screw — Carburetor Mounting                                           | 1        |
| 54       | 93208    | Screw — Intake Elbow Mounting                                         | 1        |
| 81       | 222407   | Retainer — Counterweight                                              | 1        |
| 188      | 93535    | Screw                                                                 | 1        |
| 201      | 261236   | Link — Governor                                                       | 1        |
| 209      | 260695   | Spring — Governor                                                     | 1        |
| 219      | 391737   | Gear — Governor                                                       | 1        |
| 220      | 221551   | Washer — Thrust                                                       | 1        |
| 222      | 391633   | Plate — Gov. Control                                                  | 1        |
| 227      | 391732   | Lever Assy. — Governor                                                | 1        |
| 230      | 222450   | Washer — Gov. Crank                                                   | 1        |
| 265      | 221535   | Clamp — Casing                                                        | 1        |
|          |          | Note: 220680 Washer — Flat — used between Clamp and Insulator         |          |
| 300      | 392101   | Muffler — Exhaust                                                     | 1        |
| 305      | 93158    | Screw                                                                 | 1        |
| 306      | 222744   | Shield — Cylinder                                                     | 1        |
| 308      | 222306   | Cover — Cylinder Head                                                 | 1        |
| 337      | 293918   | Plug — Spark (Resistor Type — 1-1/2")                                 | 1        |
|          |          | Note: Spark Plugs use Ignition Cable Terminal No. 221798              |          |
| 353      | 92791    | Washer — Lock — Shakeproof                                            | 3        |
| 354      | 90576    | Nut — Hex.                                                            | 2        |
| 356      | 391602   | Wire — Ground                                                         | 1        |
|          |          | Note: 391255 Wire — Jumper used in addition to No. 391602 Ground Wire |          |
| 357      | 91540    | Key — Pulley                                                          | 1        |
| 358      | 393421   | Gasket Set                                                            | 1        |
| 506      | 90200    | Screw — Machine, Fill. Hd.                                            | 1        |
| 507      | 66895    | Insulator — Terminal                                                  | 1        |
| 523      | 392295   | Cap and Dipstick — Oil Filler                                         | 1        |
| 524      | 68838    | Seal — Filler Tube                                                    | 1        |
| 525      | 392283   | Tube — Oil Filler                                                     | 1        |
| 552      | 231056   | Bushing — Gov. Crank                                                  | 1        |
| 562      | 92613    | Bolt — Governor Lever                                                 | 1        |
| 592      | 231082   | Nut — Hex.                                                            | 1        |
| 614      | 93306    | Cotter — Hair Pin                                                     | 1        |
| 615      | 93307    | Retainer — E-Ring                                                     | 1        |
| 616      | 231057   | Crank — Governor                                                      | 1        |
| 621      | 297472   | Switch — Stop                                                         | 1        |
| 635      | 66538    | Elbow — Spark Plug                                                    | 1        |
| 657      | 93496    | Screw                                                                 | 1        |
| 751      | 22355    | Washer — Flat                                                         | 1        |
| 752      | 93554    | Screw — Plug                                                          | 1        |
| 758      | 391481   | Counterweight and Bearing Assembly                                    | 1        |
| 842      | 270933   | Seal — Oil Filler Cap                                                 | 1        |
| 869      | 261463   | Seat — Intake Valve (Standard)                                        | 1        |
| 870      | 210940   | Seat — Exhaust Valve (Std.)                                           | 1        |
| 871      | 230665   | Guide — Exhaust Valve                                                 | 1        |
| 883      | 270917   | Gasket — Exhaust                                                      | 1        |

\*Included in Gasket Set — Part No. 393421.

**ENGINE BRIGGS & STRATTON MODEL NO. 252416**  
**TYPE NO. 0190-01**  
**(11 H.P. SNOWTHROWER MODEL 38160)**

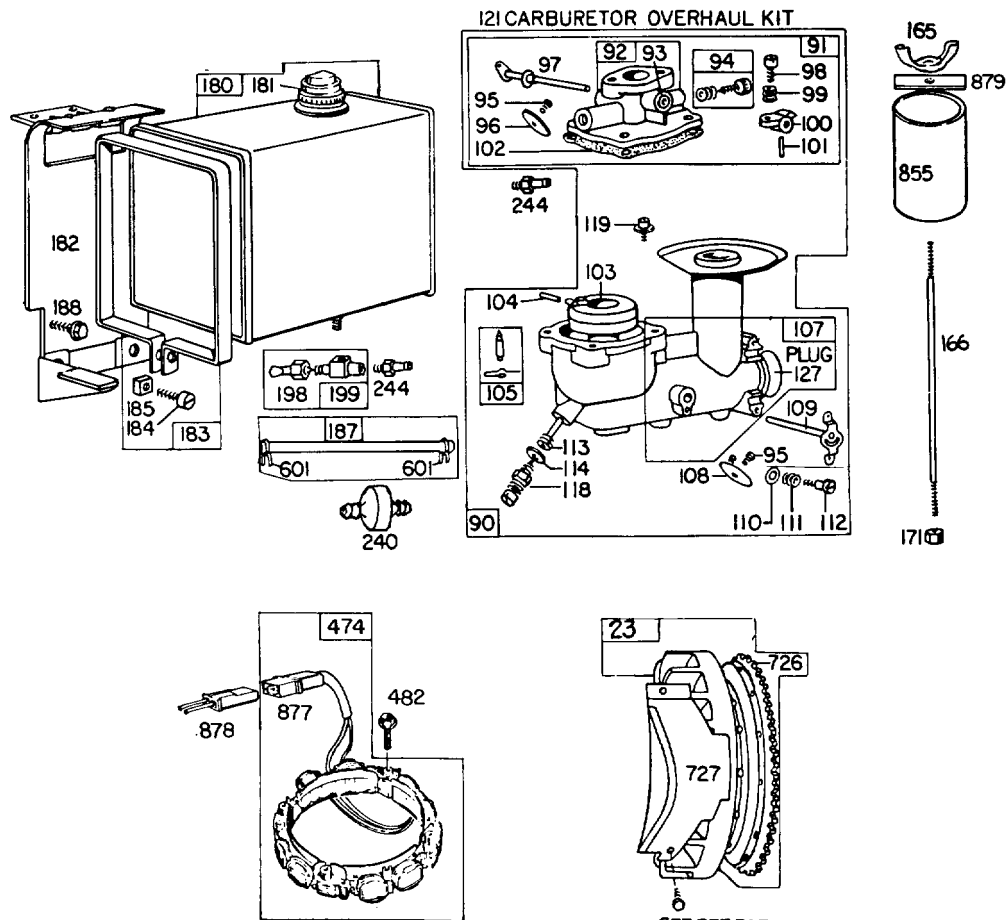


★ SPECIAL TOOLS REQUIRED  
 TO INSTALL  
 SEE REPAIR INSTRUCTION  
 MANUAL

**ENGINE BRIGGS & STRATTON MODEL NO. 252416**  
**TYPE NO. 0190-01**  
**(11 H.P. SNOWTHROWER MODEL 38160)**

| Ref. No. | Part No. | Description                                                                                                         | No. Used |
|----------|----------|---------------------------------------------------------------------------------------------------------------------|----------|
| 3        | 391086   | Seal — Oil                                                                                                          | 1        |
| 23       | 391988   | Flywheel and Ring Gear<br>Assy. — Magneto                                                                           | 1        |
| 24       | 61760    | Key — Flywheel                                                                                                      | 1        |
| 55       | 393576   | Housing — Rewind Starter                                                                                            | 1        |
| 56       | 295871   | Pulley — Rewind Starter<br>(Includes 63" Rope)                                                                      | 1        |
| 57       | 294303   | Spring — Rewind Starter                                                                                             | 1        |
| 58       | 66884    | Rope — Rewind Starter<br>(63" Long)                                                                                 | 1        |
| 59       | 230228   | Pin — Starter Grip                                                                                                  | 1        |
| 60       | 66728    | Grip — Starter Rope                                                                                                 | 1        |
| 63       | 260414   | Spring — Ratchet                                                                                                    | 1        |
| 64       | 230543   | Adapter — Ratchet Spring                                                                                            | 1        |
| 65       | 93067    | Screw — Rewind Starter                                                                                              | 1        |
| 66       | 393117   | Clutch Assy. — Rewind Starter<br>For use on engines with<br>Electric Motor or equipped<br>for Electric Motor        | 1        |
| 67       | 261453   | Housing — Rewind Starter<br>Clutch — For use on<br>engines with Electric Motor<br>or equipped for Electric<br>Motor | 1        |
| 68       | 63770    | Ball — Clutch                                                                                                       | 1        |
| 69       | 66718    | Washer — Starter Clutch,<br>Thrust                                                                                  | 1        |
| 70       | 298799   | Ratchet — Rewind<br>Starter Clutch                                                                                  | 1        |

| Ref. No. | Part No. | Description                               | No. Used |
|----------|----------|-------------------------------------------|----------|
| 71       | 221653   | Washer — Retainer                         | 1        |
| 73       | 221796   | Screen — Rotating                         | 1        |
| 74       | 93042    | Screw                                     | 1        |
| 75       | 220865   | Washer — Spring                           | 1        |
| 76       | 68238    | Washer — Ratchet Sealing                  | 1        |
| 231      | 93064    | Screw                                     | 1        |
| 304      | 392738   | Housing — Blower                          | 1        |
| 305      | 93158    | Screw                                     | 1        |
| 333      | 298968   | Armature Assembly                         | 1        |
| 334      | 93381    | Screw — Armature<br>Mounting              | 1        |
| 339      | 391284   | Breaker Assy. — Ignition                  | 1        |
| 340      | 26018    | Spring — Breaker Arm                      | 1        |
| 342      | 65704    | Plunger — Breaker Point                   | 1        |
| 343      | 391792   | Condenser                                 | 1        |
| 345      | 222517   | Cover — Breaker Point                     | 1        |
| 346      | 93705    | Screw                                     | 1        |
| 363      | 19203    | Puller — Flywheel (Optional<br>Accessory) | 1        |
| 373      | 92987    | Nut — Hex                                 | 1        |
| 590      | 93226    | Screw — Breaker<br>Adjusting              | 1        |
| 608      | 390391   | Starter Assy. — Rewind                    | 1        |
| 645      | 23513    | Bushing — Breaker Plunger                 | 1        |
| 655      | 222598   | Anchor — Spring                           | 1        |
| 682      | 211516   | Shield — Starter Clutch                   | 1        |
| 729      | 221907   | Clip — Wire                               | 1        |
| 851      | 221798   | Terminal — Ignition Cable                 | 1        |

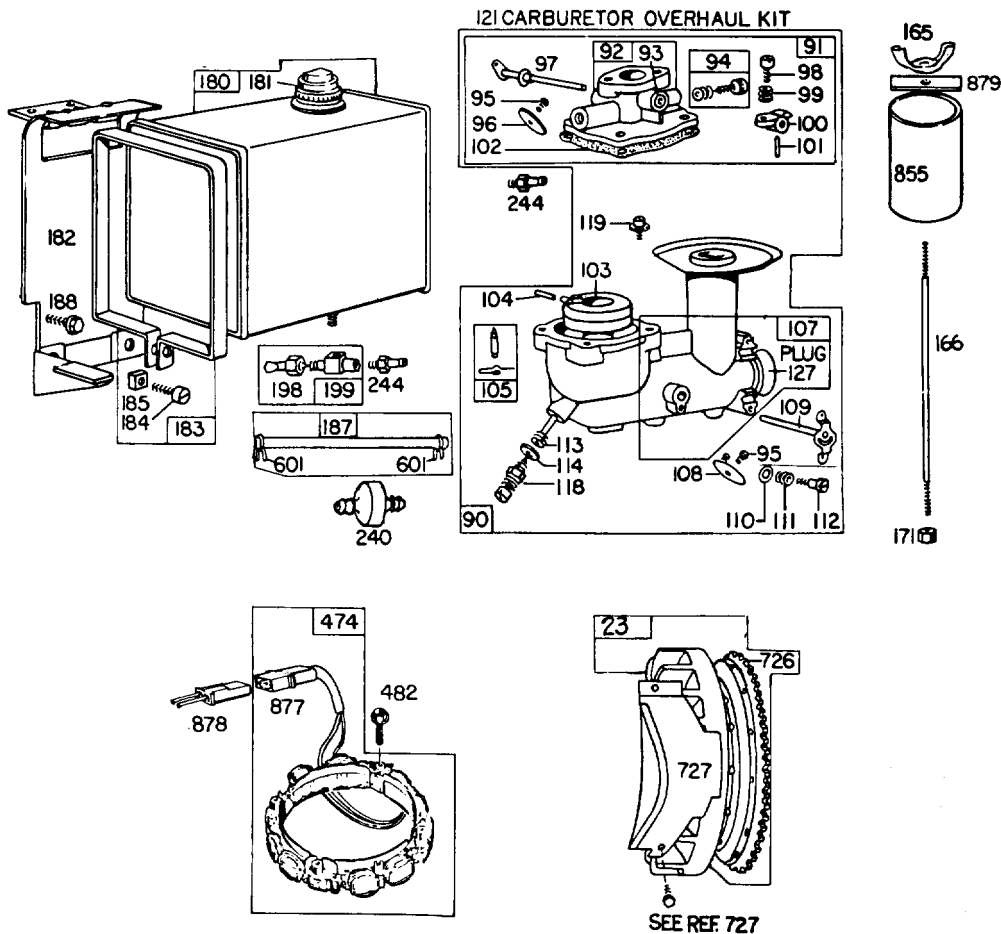


# **ENGINE BRIGGS & STRATTON MODEL NO. 252416** **TYPE NO. 0191-01** **(11 H.P. SNOWTHROWER MODEL 38160)**

| Ref. No. | Part No. | Description                               | No. Used | Ref. No. | Part No. | Description                      | No. Used |
|----------|----------|-------------------------------------------|----------|----------|----------|----------------------------------|----------|
| 23       | 391988   | Flywheel and Ring Gear Assy. — Magneto    | 1        | 105      | 299096   | Valve — Fuel Inlet               | 1        |
| 90       | 391992   | Carburetor Assembly (Manual Friction)     | 1        | 107      | 391829   | Body Assembly — Lower Carburetor | 1        |
| 91       | 391833   | Body Assembly — Upper Carburetor          | 1        | 108      | 391836   | Valve — Choke                    | 1        |
| 92       | 298759   | Body — Upper Carburetor                   | 1        | 109      | 391884   | Shaft and Lever — Choke          | 1        |
| 93       | 23108    | Bushing — Throttle Shaft                  | 1        | 110      | 62899    | Washer — Choke Lever             | 1        |
| 94       | †292681  | Valve Assembly — Carburetor Idle          | 1        | 111      | 26155    | Spring — Choke Lever             | 1        |
| 95       | 93499    | Screw — Throttle and Choke Valve Mounting | 1        | 112      | 23123    | Screw — Choke Lever              | 1        |
| 96       | 221939   | Valve — Throttle                          | 1        | 113      | †390950  | Nozzle — Carburetor              | 1        |
| 97       | 391596   | Shaft and Lever — Throttle                | 1        | 114      | †68667   | Gasket — Nozzle                  | 1        |
| 98       | 91920    | Screw — Machine, Fil. Hd.                 | 1        | 118      | †99525   | Valve — Needle                   | 1        |
| 99       | 26157    | Spring — Throttle Adjustment              | 1        | 119      | 93496    | Screw — Machine, Fil. Hd.        | 1        |
| 100      | 61967    | Stop — Throttle                           | 1        | 121      | 391071   | Carburetor Overhaul Kit          | 1        |
| 101      | 93043    | Pin — Throttle Stop                       | 1        | 127      | 221747   | Plug — Welch                     | 1        |
| 102      | †*270268 | Gasket — Carburetor Body                  | 1        | 165      | 93453    | Nut — Wing                       | 1        |
| 103      | 298514   | Float — Carburetor                        | 1        | 166      | 231007   | Stud — Air Cleaner               | 1        |
| 104      | †230896  | Pin — Float Hinge                         | 1        | 171      | 92129    | Nut — Hex                        | 1        |
|          |          |                                           |          | 180      | 290816   | Tank Assy. — Fuel (4 Quart)      | 1        |
|          |          |                                           |          | 181      | 297866   | Cap — Fuel Tank                  | 1        |
|          |          |                                           |          | 182      | 222333   | Bracket — Fuel Tank (4 Quart)    | 1        |

\*Included in Gasket Set — Part No. 393421.

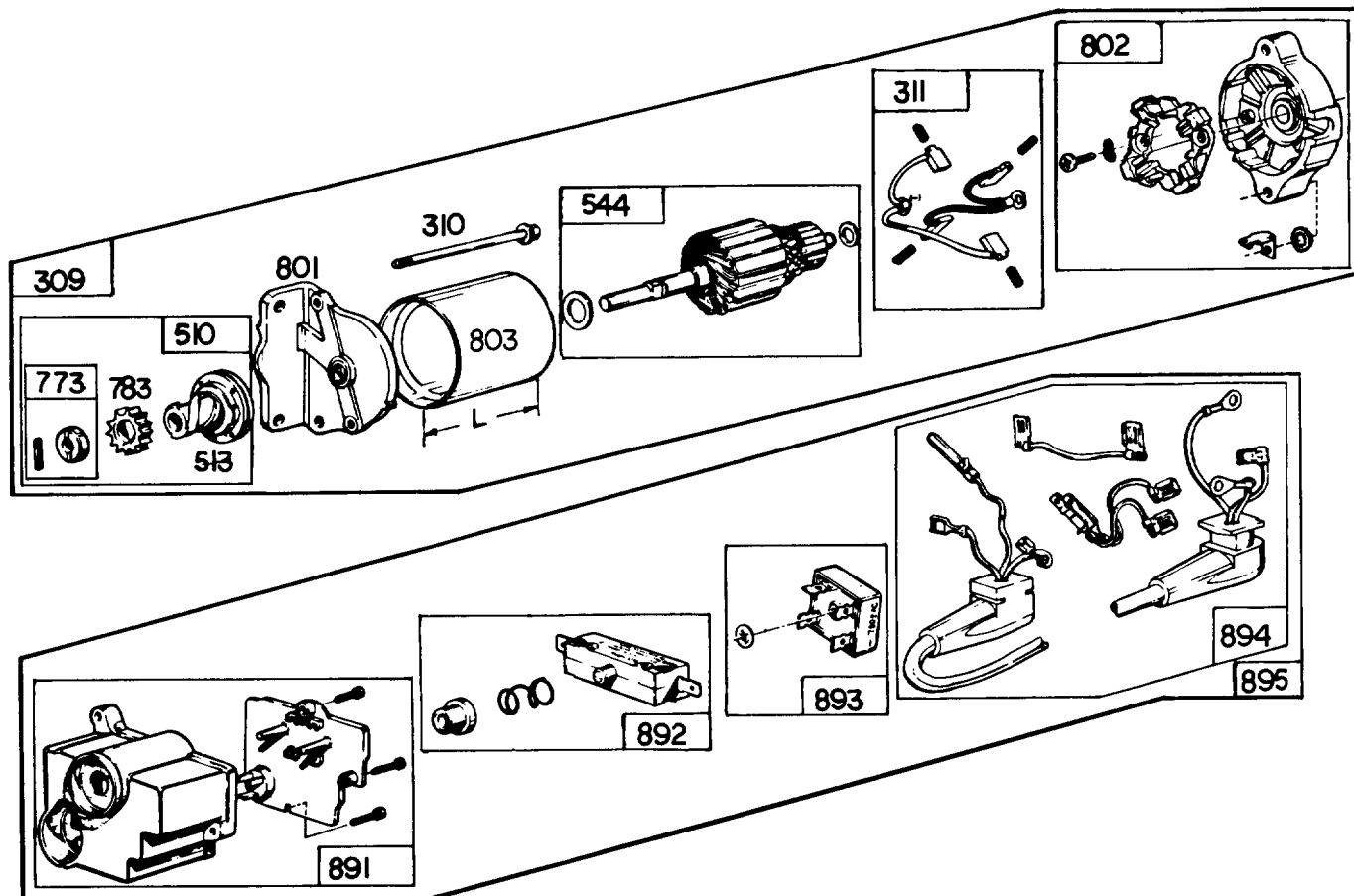
†Included in Carburetor Overhaul Kit — Part No. 391071.



## ENGINE BRIGGS & STRATTON MODEL NO. 252416 TYPE NO. 0190-01 (Continued) (11 H.P. SNOWTHROWER MODEL 38160)

| Ref. No. | Part No. | Description                          | No. Used |
|----------|----------|--------------------------------------|----------|
| 183      | 291367   | Strap Assembly – Fuel Tank (4 Quart) | 1        |
| 184      | 91257    | Screw – Machine, Fil. Hd.            | 1        |
| 185      | 90970    | Nut – Square                         | 1        |
| 187      | 296004   | Pipe – Fuel                          | 1        |
| 188      | 93535    | Screw                                | 1        |
| 198      | 293934   | Valve – Fuel Shut-Off                | 1        |
| 199      | 297563   | Outlet – Fuel Tank                   | 1        |
| 240      | 298090   | Filter – Fuel                        | 1        |
| 244      | 230318   | Connector – Fuel Pipe                | 1        |
| 474      | 393474   | Stator – Alternator (Dual Circuit)   | 1        |
| 482      | 93621    | Screw                                | 1        |
| 601      | 93053    | Clamp – Fuel Pipe                    | 1        |

| Ref. No. | Part No. | Description                                                                     | No. Used |
|----------|----------|---------------------------------------------------------------------------------|----------|
| 726      | 392134   | Gear – Flywheel Ring (Includes Mounting Parts)                                  | 1        |
| 727      | 221940   | Guard – Ring Gear<br>Uses:<br>93623 Screw<br>90366 Lockwasher<br>To Mount Guard | 2<br>2   |
| 855      | 231145   | Stack – Carburetor                                                              | 1        |
| 877      | 393456   | Diode and Connector Assy. (Dual Circuit)                                        | 1        |
| 878      | 393362   | Alternator Harness Assy. (Dual Circuit)                                         | 1        |
| 879      | 222726   | Strap                                                                           | 1        |



**STARTER MOTOR KIT MODEL NO. 37-4630**  
**(8 H.P. & 11 H.P. SNOWTHROWER MODEL 38150 & 38160 )**  
**(For use in Canada only)**

| Ref. No. | Part No. | Description                                | No. Used |
|----------|----------|--------------------------------------------|----------|
| 309      | 393851   | Motor & Drive Assembly                     | 1        |
| 310      | 93889    | Thru Bolt Assembly                         | 1        |
| 311      | 393612   | Brush Assembly                             | 1        |
| 510      | 391461   | Drive Assembly (Incl. Ref. 513, 773 & 783) | 1        |
| 513      | 391135   | Clutch Assembly                            | 1        |
| 544      | 393607   | Armature Assembly                          | 1        |
| 773      | 391462   | Retainer & Pin                             | 1        |
| 783      | 280104   | Gear                                       | 1        |
| 801      | 393228   | Drive End Cap Assembly                     | 1        |
| 802      | 393833   | Comm. End Cap Assembly                     | 1        |

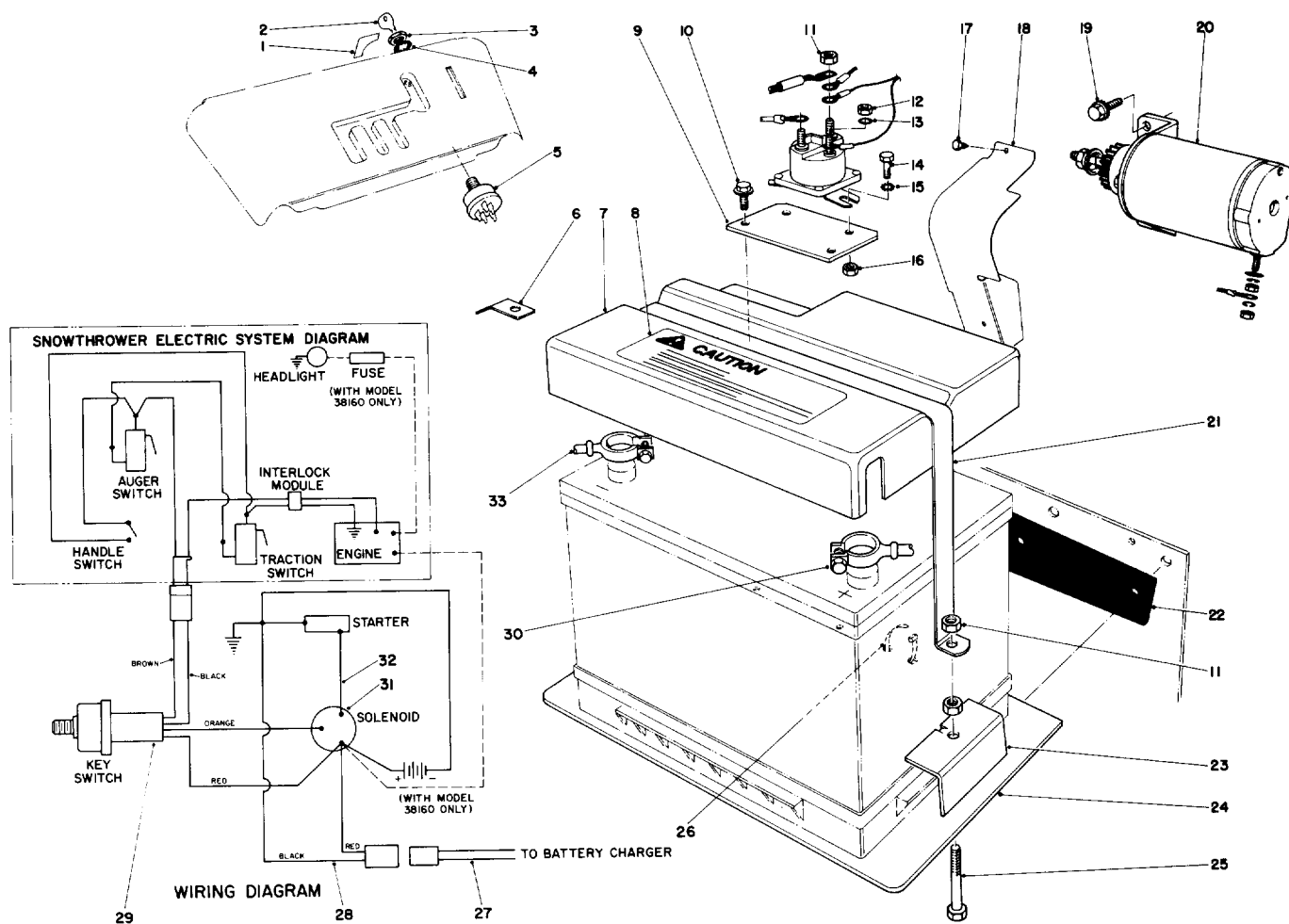
| Ref. No. | Part No. | Description                 | No. Used |
|----------|----------|-----------------------------|----------|
| 803      | 393433   | Housing Assembly            | 1        |
| 891      | 393705   | Housing Group               | 1        |
| 892      | 393708   | Switch Group                | 1        |
| 893      | 393707   | Rectifier                   | 1        |
| 894      | 393706   | Lead Group                  | 1        |
| 895      | 393486   | Control Group               | 1        |
| *††      | 38-0070  | Bracket Switch              | 1        |
| *††      | 32146-18 | Nut                         | 3        |
| *††      | 3252-6   | Fillister Hd. Machine Screw | 3        |
| *        | 390233   | Starter Pinion Cover        | 1        |
| *        | 390748   | 10' Extension Cord          | 1        |

\*Not Illustrated

†Obtain from The Toro Co.

Note: Obtain replacement parts from your local Briggs & Stratton Dealer.

‡Used on Toro model 38160 only.



## 12 VOLT STARTING MOTOR KIT 42-3370 (8 & 11 H.P. SNOWTHROWER MODEL 38150 & 38090)

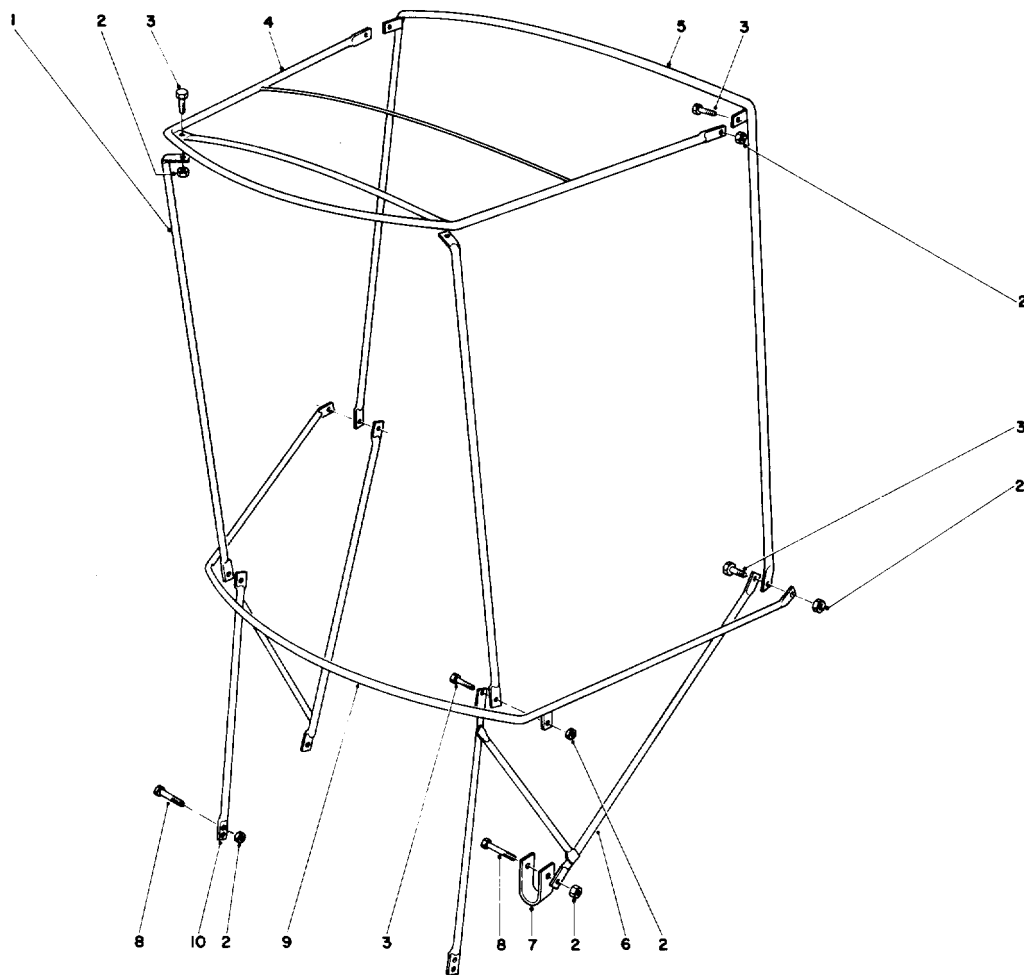
| Ref. No. | Part No. | Description                   | No. Used |
|----------|----------|-------------------------------|----------|
| 1        | 38-0640  | Decal—Key Switch              | 1        |
| 2        | 33-2010  | Key (Set of 2)                | 1        |
| 3        | 218-461  | Hex Nut                       | 1        |
| 4        | 3254-5   | Lockwasher                    | 1        |
| 5        | 42-3990  | Starter Switch                | 1        |
| 6        | 22-9060  | Bracket Wire Clamp            | 1        |
| 7        | 8-2839   | Battery Cover (Incl. Ref. #8) | 1        |
| 8        | 38-0630  | Decal - Caution               | 1        |
| 9        | 22-8880  | Solenoid Mounting Bracket     | 1        |
| 10       | 32144-10 | Thread Forming Screw          | 2        |
| 11       | 3217-6   | Hex Nut                       | 6        |
| 12       | 3219-14  | Hex Nut                       | 1        |
| 13       | 3254-1   | Lockwasher                    | 1        |
| 14       | 321-2    | Capscrew                      | 2        |
| 15       | 3255-7   | Lockwasher                    | 2        |
| 16       | 3296-42  | Locknut                       | 2        |
| 17       | 32108-57 | Self Tapping Screw            | 2        |
| 18       | 20-7060  | Pinion Shield                 | 1        |

| Ref. No. | Part No. | Description                  | No. Used |
|----------|----------|------------------------------|----------|
| 19       | 32140-45 | Hex Hd. Screw                | 2        |
| 20†      |          | Starter Motor & Pinion Assy. | 1        |
| 21       | 22-8850  | Strap Battery Cover          | 1        |
| 22       | 24-6150  | Battery Isolation Pad        | 1        |
| 23       | 22-8870  | Battery Hold Downs           | 2        |
| 24       | 22-8830  | Battery Mounting Plate       | 1        |
| 25       | 322-10   | Capscrew                     | 2        |
| 26       | 3290-378 | Tie Wrap                     | 5        |
| 27       | 29-7830  | Wire Assembly                | 1        |
| 28       | 29-7820  | Wire Assembly                | 1        |
| 29       | 42-4000  | Wire Harness                 | 1        |
| 30       | 22-9320  | Battery Cable                | 1        |
| 31       | 6-1600   | Solenoid                     | 1        |
| 32       | 22-9310  | Wire Assembly                | 1        |
| 33       | 22-9330  | Battery Cable                | 1        |
| *        | 26-3870  | Charger 110V (U.S. & Canada) | 1        |
| *        | 26-7140  | Charger 220V (Europe)        | 1        |

\*Not illustrated; is not included with kit.

†Not available from The Toro Co.; for reference only.

Obtain from your local Briggs & Stratton dealer part no. 391177.

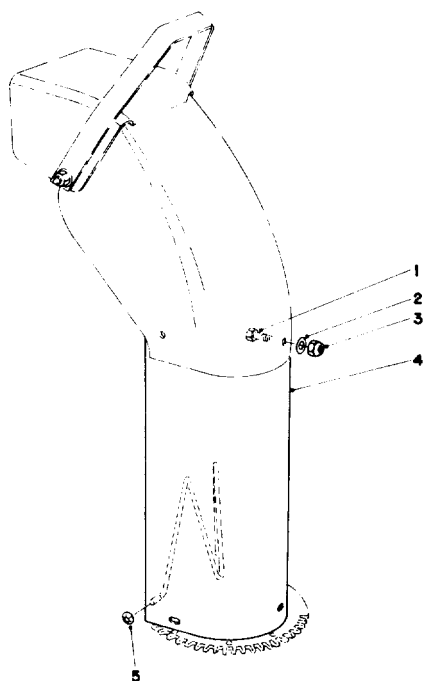


## SNOW CAB ASSEMBLY MODEL 42-3380

| Ref. No. | Part No. | Description            | No. Used |
|----------|----------|------------------------|----------|
| 1        | 12-8040  | Front Corner Post      | 2        |
| 2        | 32146-17 | Locknut                | 12       |
| 3        | 321-4    | Capscrew               | 8        |
| 4        | 12-8010  | Top Frame              | 1        |
| 5        | 12-8030  | Rear Vertical Bow      | 1        |
| 6        | 42-4060  | Attaching Bracket L.H. | 1        |

| Ref. No. | Part No. | Description            | No. Used |
|----------|----------|------------------------|----------|
| 7        | 12-8050  | "U" Clamp              | 2        |
| 8        | 321-11   | Capscrew               | 4        |
| 9        | 12-8020  | Horizontal Curved Bow  | 1        |
| 10       | 42-4050  | Attaching Bracket R.H. | 1        |
| *        | 42-4070  | Vinyl Cover            | 1        |

\*Not Illustrated

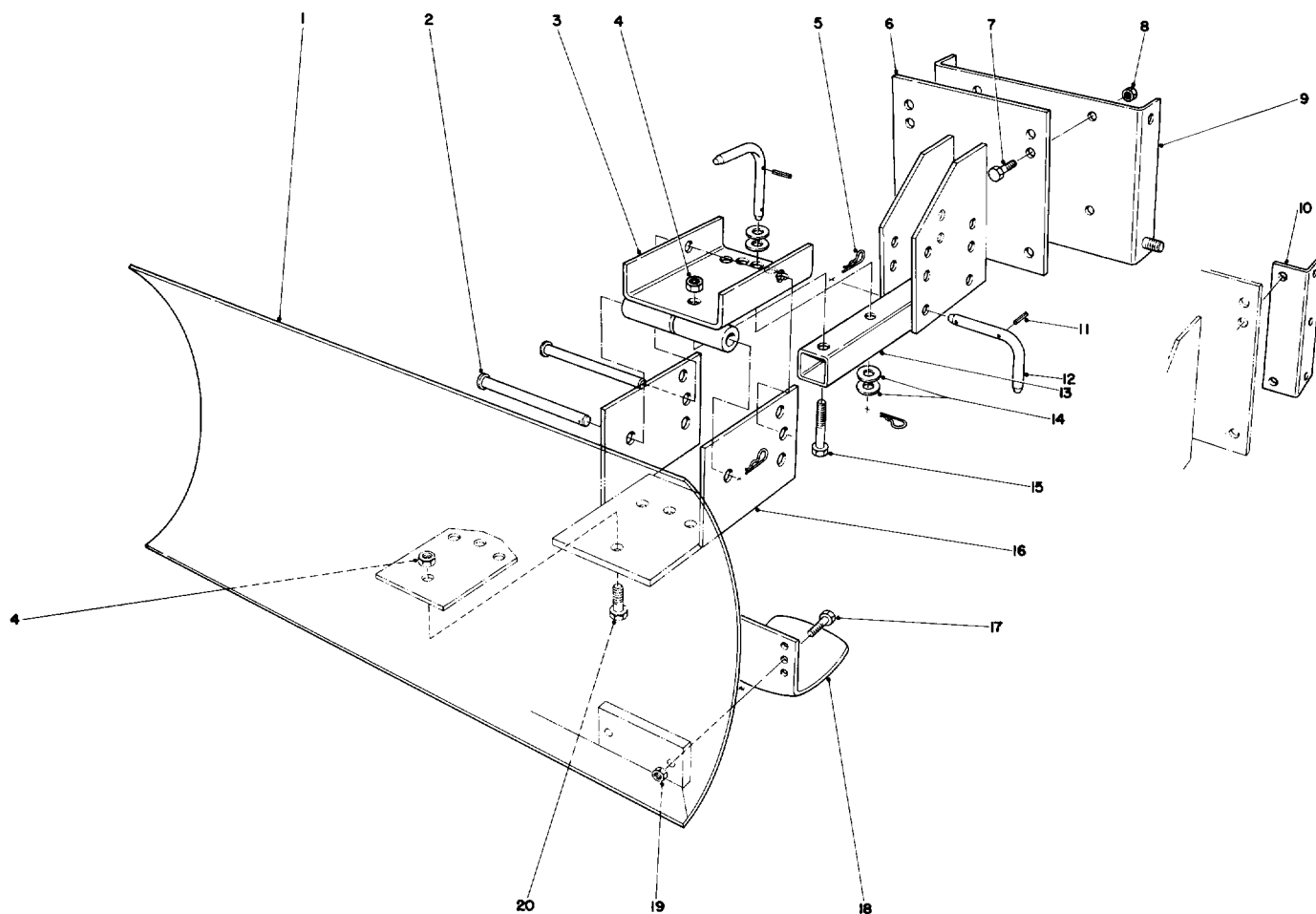


## CHUTE EXTENSION KIT 26-1100

| Ref. No. | Part No. | Description      | No. Used |
|----------|----------|------------------|----------|
| 1        | 322-2    | Hex Hd. Capscrew | 6        |
| 2        | 3256-23  | Washer           | 6        |
| 3        | 32152-1  | Locknut          | 6        |

| Ref. No. | Part No. | Description          | No. Used |
|----------|----------|----------------------|----------|
| †4       |          | Upper Chute Extender | 1        |
| 5        | 3290-326 | Pushnuts             | 2        |

†Not available, for reference only.



## GRADER BLADE ASSEMBLY (Model No. 59099)

| Ref. No. | Part No. | Description                                          | No. Used | Ref. No. | Part No. | Description                | No. Used |
|----------|----------|------------------------------------------------------|----------|----------|----------|----------------------------|----------|
| 1        | 7-4374   | Blade                                                | 1        | 11       | 32121-45 | Roll Pin                   | 3        |
| 2        | 283-38   | Pin                                                  | 2        | 12       | 20-5210  | Pivot Pin (Incl. Ref. #11) | 3        |
| 3        | 20-5090  | Swivel Bracket                                       | 1        | 13       | 20-5140  | Blade Tongue               | 1        |
| 4        | 32152-3  | Locknut                                              | 5        | 14       | 3256-5   | Flat Washer                | 4        |
| 5        | 3290-322 | Hair Pin Cotter                                      | 5        | 15       | 325-11   | Capscrew                   | 1        |
| 6        | 22-4920  | Mounting Plate Bracket (used with 826 and 1032 only) | 1        | 16       | 20-5130  | Blade Adjustment Plate     | 1        |
| 7        | 323-6    | Capscrew                                             | 4        | 17       | 322-6    | Capscrew                   | 4        |
| 8        | 32152-2  | Locknut                                              | 4        | 18       | 7-1023   | Skid                       | 2        |
| 9        | 20-5170  | Mounting Plate                                       | 1        | 19       | 32152-1  | Locknut                    | 4        |
| 10       | 39-7850  | Mounting Rail (used with 421 units only)             | 2        | 20       | 325-5    | Capscrew                   | 4        |
|          |          |                                                      |          | *        | 20-9960  | Air Cleaner Kit — Briggs   | 1        |

\* Not Illustrated

# The Toro Promise

## A ONE YEAR LIMITED WARRANTY

*The Toro Company promises to repair any TORO Product if defective in materials or workmanship. The following time periods from the date of purchase apply:*

Residential Product . . . . . 1 Year  
Residential Products Used Commercially . . . 45 Days

*The costs of parts and labor are included, but the customer pays the transportation costs. Just return any residential product to an Authorized TORO Service Dealer or TORO Distributor.*

Should you feel your TORO Product is defective and wish to rely on The Toro Promise, the following procedure is recommended:

1. Contact any Authorized TORO Service Dealer, TORO Master Service Dealer, or TORO Distributor (the Yellow Pages of your telephone directory is a good reference source).
2. He will either instruct you to return the product to him or recommend another Authorized TORO Service outlet which might be more convenient.
3. Bring the product along with your original sales slip, or other evidence of purchase date, to the service dealer.
4. The servicing dealer will inspect the unit, advise you whether the product is defective and, if so, make all repairs necessary to correct the defect without extra charge to you.

If for any reason you are dissatisfied with the dealer's analysis of the defect or the service performed, you may contact us.

Write:

TORO Consumer Service Department  
8111 Lyndale Avenue South  
Minneapolis, Minnesota 55420

The above remedy of product defects through repair by an Authorized TORO Service Dealer is the purchaser's sole remedy for any defect.

**THERE IS NO OTHER EXPRESS WARRANTY. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.**

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine maintenance of the unit to keep it in proper operating condition is the responsibility of the owner.

All warranty repairs reimbursable under The Toro Promise must be performed by an Authorized TORO Service Dealer using Toro approved replacement parts.

Repairs or attempted repairs by anyone other than an Authorized TORO Service Account are not reimbursable under The Toro Promise. In addition, these unauthorized repair attempts may result in additional malfunctions, the correction of which is not covered by warranty.

**THE TORO COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT INCLUDING ANY COST OR EXPENSE OF PROVIDING SUBSTITUTE EQUIPMENT OR SERVICE DURING PERIODS OF MALFUNCTION OR NON-USE.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### COUNTRIES OTHER THAN THE UNITED STATES OR CANADA

Customers who have purchased TORO products exported from the United States or Canada should contact their TORO Distributor (Dealer) to obtain guarantee policies for your country, province or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact

the TORO importer. If all other remedies fail, you may contact us at The Toro Company.

International Group  
Service Department  
One Corporate Center  
7401 Metro Boulevard  
Minneapolis, Minnesota 55435 U.S.A.

## PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible, minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change apparently has been made in your unit, which is not reflected in your manual, see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

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# IDENTIFICATION AND ORDERING

## Model and Serial Numbers

The Snowthrower has two identification numbers: a model number and a serial number. The two numbers are stamped on a decal which is located on left rear side of the engine mounting plate. In any correspondence concerning the Snowthrower, supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer, supply the following information:

1. Model and serial numbers of the Snowthrower.
2. Part number, description, and quantity of part(s) desired.

**NOTE:** Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

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*Genuine*  
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PARTS & ACCESSORIES

## ***Insist on Genuine Toro Parts***

[illegible]