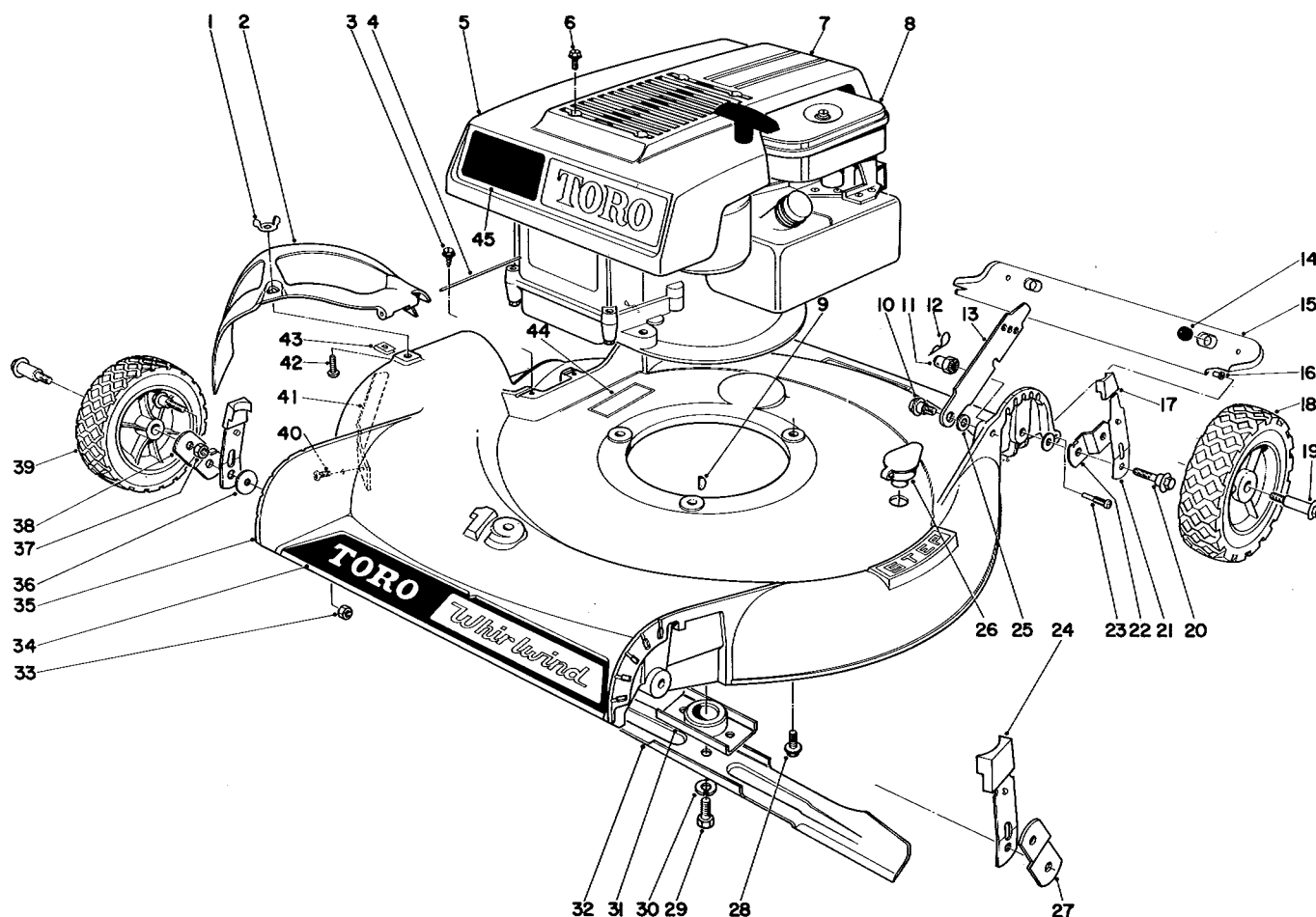


# TORO®

19" H.P. MODEL NO. 16017 — 200001 & UP  
21" H.P. MODEL NO. 16123 — 200001 & UP  
21" S.P. MODEL NO. 16233 — 200001 & UP

## PARTS CATALOG

### 19" AND 21" H.P. & S.P. FINGERTIP START

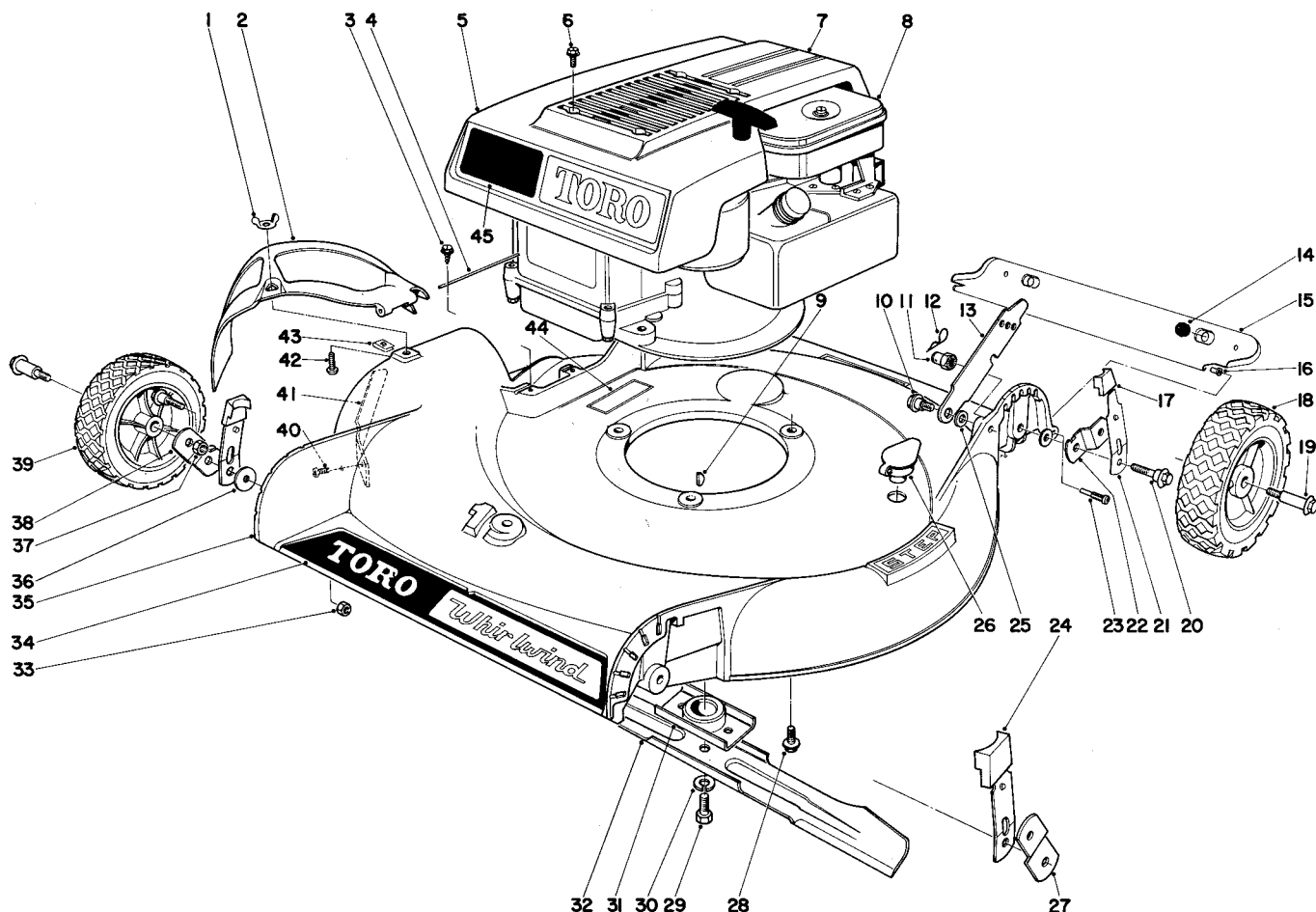


### HOUSING & ENGINE ASSEMBLY — Models 16017 & 16123

| Ref. No. | Part No. | Description          | No. Used |
|----------|----------|----------------------|----------|
| 1        | 32103-14 | Wing Nut             | 1        |
| 2        | 12-2270  | Deflector            | 1        |
| 3        | 32104-76 | Self-tapping Screw   | 2        |
| 4        | 3-2644   | Hinge Pin            | 1        |
| 5        | 12-4470  | Shroud (Model 16017) | 1        |
| *        | 12-3080  | Shroud (Model 16123) | 1        |
| 6        | 32104-94 | Self-tapping Screw   | 4        |
| 7        | 12-4280  | Decal — Stripe       | 1        |
| 8        | 221-415  | Engine (Model 16017) | 1        |
| *        | 221-382  | Engine (Model 16123) | 1        |
| 9        | 3257-3   | Woodruff key         | 1        |
| 10       | 5-2490   | Shoulder Screw       | 2        |
| 11       | 12-2080  | Handle Pivot Nut     | 2        |

| Ref. No. | Part No. | Description                                               | No. Used |
|----------|----------|-----------------------------------------------------------|----------|
| 12       | 3290-255 | Hairpin Cotter                                            | 2        |
| 13       | 5-2446   | Handle Latch                                              | 2        |
| 14       | 5-6450   | Skid Button                                               | 2        |
| 15       | 8-6070   | Rear Safety Shield (Model 16017)<br>(Incl. Ref. #14 & 16) | 1        |
| *        | 8-6060   | Rear Safety Shield (Model 16123)<br>(Incl. Ref. #14 & 16) | 1        |
| 16       | 8-6080   | Bushing                                                   | 2        |
| 17       | 6-6220   | Knob (Left Rear & Right Front)                            | 2        |
| 18       | 10-9680  | Wheel (8") w/tire                                         | 2        |
| 19       | 3-2652   | Wheel Bolt                                                | 4        |
| 20       | 12-2440  | Pivot Screw                                               | 4        |
| 21       | 5-3357   | Spring Arm                                                | 4        |

\* Not Illustrated



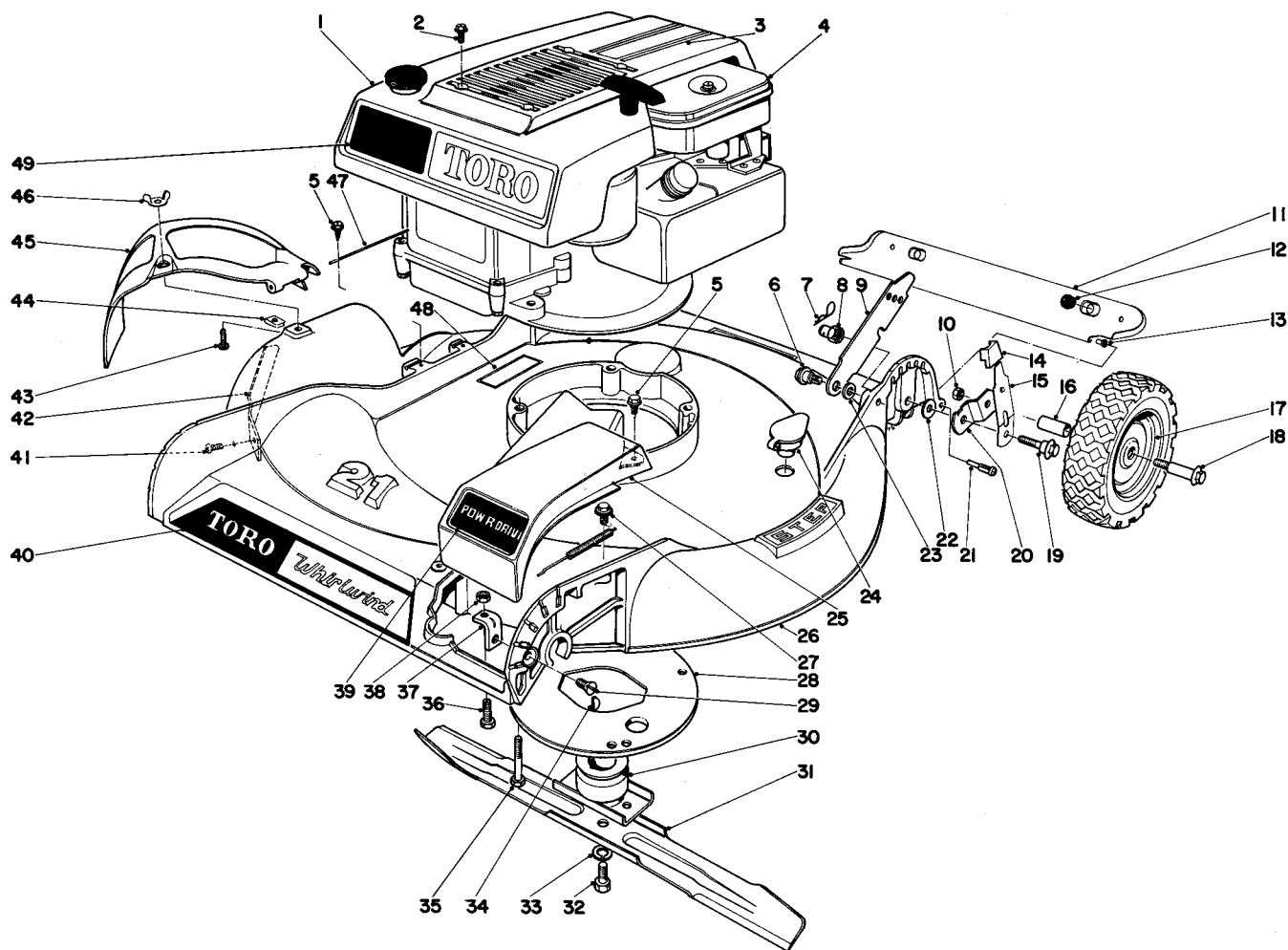
## HOUSING & ENGINE ASSEMBLY

### Models 16017 & 16123 (cont.)

| Ref. No. | Part No. | Description                    | No. Used |
|----------|----------|--------------------------------|----------|
| 22       | 12-2420  | Pivot Arm (Left Rear)          | 1        |
| *        | 12-2400  | Pivot Arm (Right Rear)         | 1        |
| 23       | 8-6160   | Pivot Screw                    | 2        |
| 24       | 6-6230   | Knob (Right Rear & Left Front) | 2        |
| 25       | 3-3287   | Spacer                         | 2        |
| 26       | 6-4500   | Washout Plug                   | 1        |
| 27       | 5-4473   | Pivot Arm (Left Front)         | 1        |
| 28       | 11-0590  | Screw                          | 3        |
| 29       | 3-5246   | Screw                          | 1        |
| 30       | 3253-22  | Lockwasher                     | 1        |
| 31       | 8-5380   | Blade Retainer (Model 16017)   | 1        |
| 32       | 8-5240   | Blade (Model 16017)            | 1        |
| *        | 8-5230   | Blade (Model 16123)            | 1        |
| 33       | 32146-5  | Nut                            | 2        |
| 34       | 12-2470  | Decal (Model 16017)            | 1        |
| *        | 12-2460  | Decal (Model 16123)            | 1        |

| Ref. No. | Part No. | Description               | No. Used |
|----------|----------|---------------------------|----------|
| 35       | 5-5279   | Housing (Model 16017)     | 1        |
| *        | 5-5299   | Housing (Model 16123)     | 1        |
| 36       | 5-4460   | Pivot Washer              | 4        |
| 37       | 32146-12 | Locknut                   | 4        |
| 38       | 5-4474   | Pivot Arm (Right Front)   | 1        |
| 39       | 10-9670  | Wheel (7" w/tire)         | 2        |
| 40       | 32140-90 | Screw                     | 2        |
| 41       | 12-2990  | Safety Bar                | 1        |
| 42       | 3290-133 | Screw                     | 1        |
| 43       | 3290-199 | Speed Nut                 | 1        |
| 44       | 3-7643   | Decal (Warning)           | 1        |
| 45       | 17-0080  | Decal Shroud              | 1        |
| *        | 12-2950  | Loose Parts (Model 16017) | 1        |
| *        | 12-2970  | Loose Parts (Model 16123) | 1        |

\* Not Illustrated

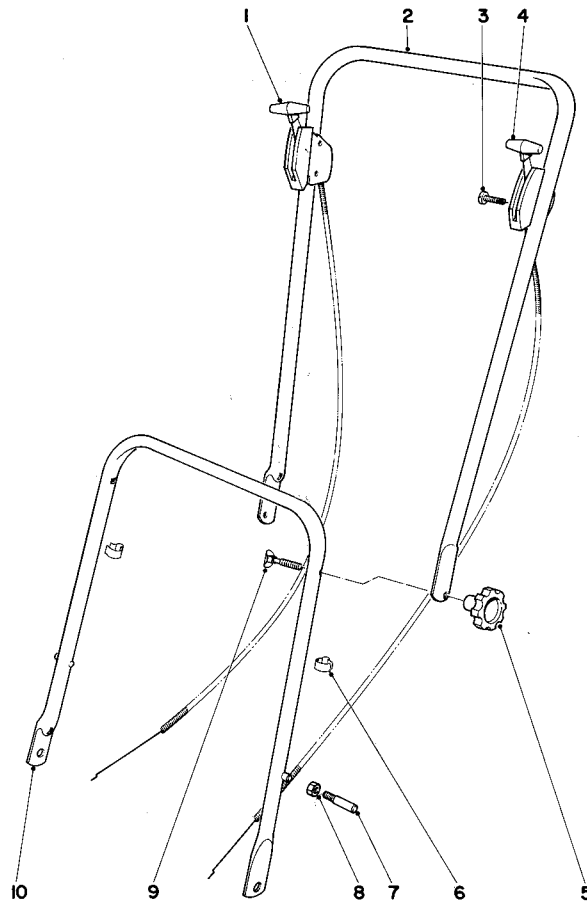


## HOUSING & ENGINE ASSEMBLY — Model No. 16233

| Ref. No. | Part No. | Description                                | No. Used |
|----------|----------|--------------------------------------------|----------|
| 1        | 12-2350  | Shroud                                     | 1        |
| 2        | 32104-94 | Self-tapping Screw                         | 4        |
| 3        | 12-4280  | Decal (Stripe)                             | 1        |
| 4        | 221-383  | Engine                                     | 1        |
| 5        | 32104-76 | Self-tapping Screw                         | 4        |
| 6        | 5-2490   | Shoulder Screw                             | 2        |
| 7        | 3290-255 | Hairpin Cotter                             | 2        |
| 8        | 12-2080  | Pivot Nut                                  | 2        |
| 9        | 5-2446   | Handle Latch                               | 2        |
| 10       | 32146-12 | Locknut                                    | 2        |
| 11       | 8-6060   | Rear Safety Shield<br>(Incl. Ref. 11 & 12) | 1        |
| 12       | 5-6450   | Skid Button                                | 2        |
| 13       | 8-6080   | Bushing                                    | 2        |
| 14       | 6-6220   | Knob (Left Rear)                           | 1        |
| *        | 6-6230   | Knob (Right Rear)                          | 1        |
| 15       | 5-3357   | Spring Arm                                 | 2        |
| 16       | 3-2664   | Bushing                                    | 2        |
| 17       | 12-2620  | Wheel w/tire (Incl. Ref. #16)              | 2        |
| 18       | 3-2652   | Wheel Bolt                                 | 2        |
| 19       | 12-2440  | Pivot Screw                                | 4        |
| 20       | 12-2420  | Pivot Arm (Left Rear)                      | 1        |
| *        | 12-2400  | Pivot Arm (Right Rear)                     | 1        |
| 21       | 8-6160   | Screw                                      | 2        |
| 22       | 5-4460   | Pivot Washer                               | 2        |
| 23       | 3-3287   | Spacer                                     | 2        |

| Ref. No. | Part No. | Description         | No. Used |
|----------|----------|---------------------|----------|
| 24       | 6-4500   | Washout Plug        | 1        |
| 25       | 5-3305   | Belt Drive Cover    | 1        |
| 26       | 5-5289   | Housing             | 1        |
| 27       | 32140-69 | Self-tapping Screw  | 1        |
| 28       | 3-7626   | Grass Guard         | 1        |
| 29       | 32108-20 | Screw               | 1        |
| 30       | 8-5370   | Blade Retainer      | 1        |
| 31       | 8-5230   | Blade               | 1        |
| 32       | 3-5246   | Screw               | 1        |
| 33       | 3253-22  | Lockwasher          | 1        |
| 34       | 3257-3   | Woodruff Key        | 1        |
| 35       | 11-0580  | Self-tapping screw  | 3        |
| 36       | 3-7281   | Screw               | 1        |
| 37       | 3-7278   | Adjustment Bracket  | 1        |
| 38       | 3218-1   | Jam Nut             | 1        |
| 39       | 12-2430  | Decal (Pow-R-Drive) | 1        |
| 40       | 12-2450  | Decal (Whirlwind)   | 1        |
| 41       | 32140-90 | Screw               | 2        |
| 42       | 12-2990  | Safety Bar          | 1        |
| 43       | 3290-133 | Screw               | 1        |
| 44       | 3290-199 | Speed Nut           | 1        |
| 45       | 12-2270  | Deflector           | 1        |
| 46       | 32103-14 | Wing Nut            | 1        |
| 47       | 3-2644   | Hinge Pin           | 1        |
| 48       | 3-7643   | Decal (Warning)     | 1        |
| 49       | 17-0080  | Decal Shoud         | 1        |
| *        | 12-2960  | Loose Parts         | 1        |

\* Not Illustrated



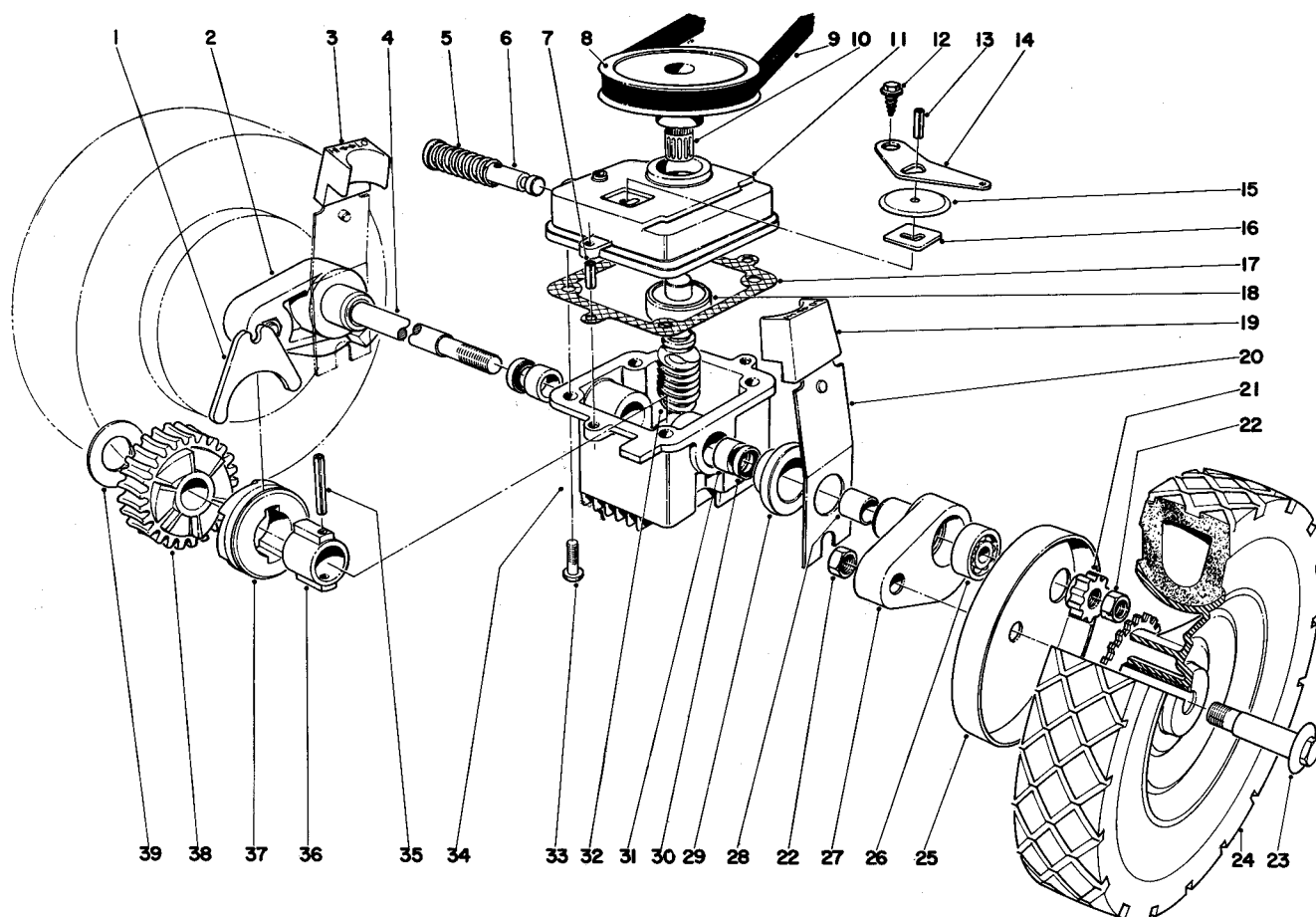
## HANDLE ASSEMBLY – Model Nos. 16017, 16123 & 16233

| Ref. No. | Part No. | Description                                 | No. Used |
|----------|----------|---------------------------------------------|----------|
| 1        | 10-9690  | Throttle Control                            | 1        |
| 2        | 10-9560  | Upper Handle                                | 1        |
| 3        | 32104-72 | Self-tapping Screw<br>(Models 16017, 16123) | 2        |
| *        | 32104-72 | Self-tapping Screw<br>(Model 16233)         | 4        |
| 4        | 10-9700  | Traction Control (Model 16233)              | 1        |
| 5        | 12-3010  | Knob (Models 16123 & 16233)                 | 2        |

| Ref. No. | Part No. | Description                 | No. Used |
|----------|----------|-----------------------------|----------|
| *        | 32146-5  | Nut (Model 16017)           | 2        |
| 6        | 218-75   | Clip (Models 16017 & 16123) | 1        |
| *        | 218-75   | Clip (Model 16233)          | 2        |
| †7       | 6-6940   | Handle Pin                  | 1        |
| †8       | 32146-8  | Locknut                     | 1        |
| 9        | 6-6320   | Screw (Model 16017)         | 2        |
| *        | 6-6330   | Screw (Models 16123, 16233) | 2        |
| 10       | 10-9540  | Lower Handle                | 1        |

\* Not Illustrated

† Replacement Parts Only



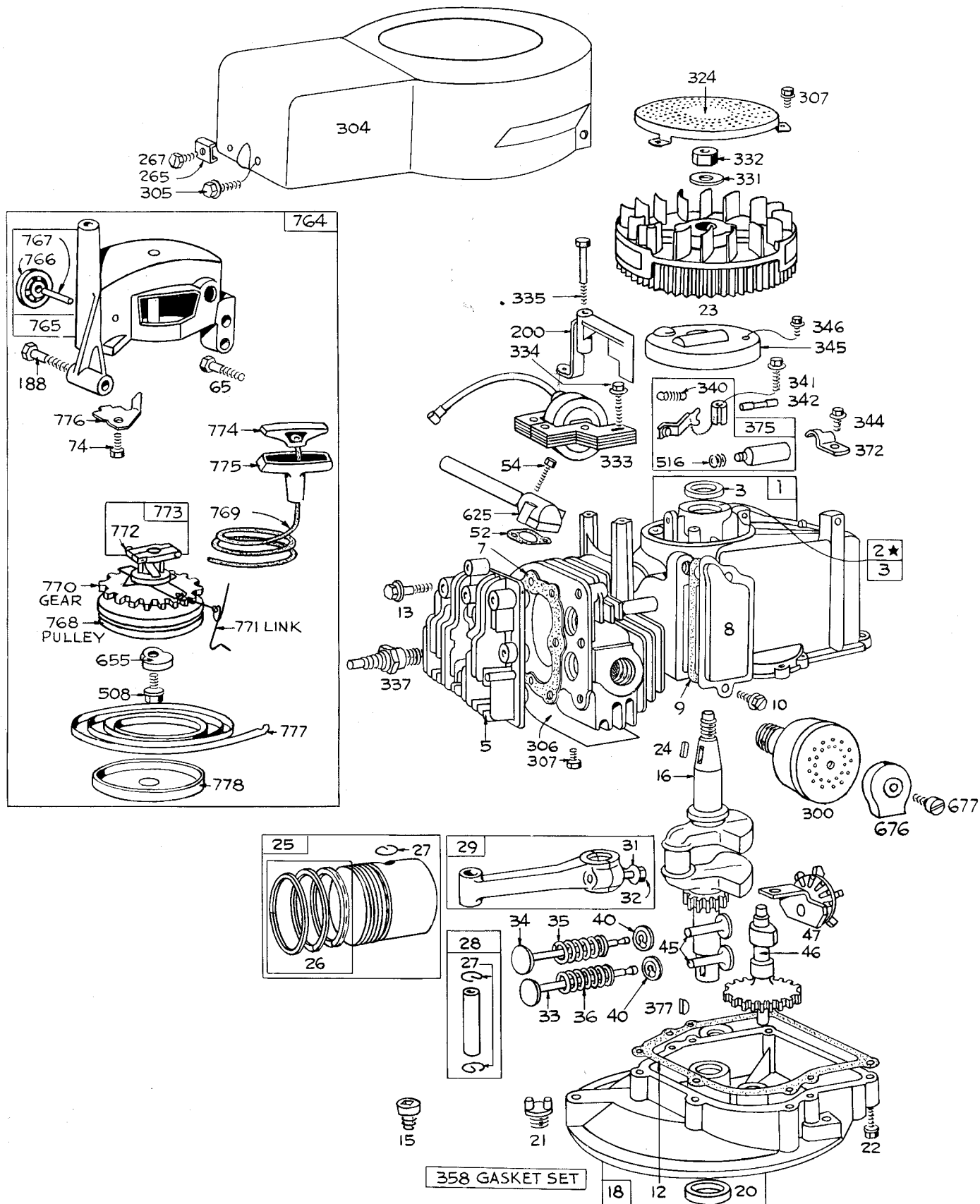
## GEAR CASE ASSEMBLY — Model No. 16233

| Ref. No. | Part No. | Description                    | No. Used |
|----------|----------|--------------------------------|----------|
| 1        | 5-3247   | Shifter Fork                   | 1        |
| 2        | 2-6359   | Pivot Arm (Incl. Ref. 28 & 30) | 1        |
| 3        | 6-6220   | Knob                           | 1        |
| 4        | 3-0720   | Drive Shaft                    | 1        |
| 5        | 3-0731   | Spring                         | 1        |
| 6        | 5-3248   | Shifter Rod                    | 1        |
| 7        | 32121-1  | Roll Pin                       | 2        |
| 8        | 5-1615   | Pulley                         | 1        |
| 9        | 5-4505   | V-belt                         | 1        |
| 10       | 3290-286 | Tolerance Ring                 | 1        |
| 11       | 5-3283   | Cover                          | 1        |
| 12       | 32140-64 | Self-tapping Screw             | 1        |
| 13       | 32121-23 | Roll Pin                       | 1        |
| 14       | 5-3252   | Shifter Arm                    | 1        |
| 15       | 3-2615   | Dust Cover                     | 1        |
| 16       | 3-0681   | Latch Plate                    | 1        |
| 17       | 3-0734   | Gear Case Gasket               | 1        |
| 18       | 251-144  | Ball Bearing                   | 1        |
| 19       | 6-6230   | Knob                           | 1        |
| 20       | 3-2640   | Spring Arm                     | 2        |
| 21       | 3-0738   | Pinion Gear                    | 2        |

| Ref. No. | Part No. | Description                    | No. Used |
|----------|----------|--------------------------------|----------|
| 22       | 32146-12 | Locknut                        | 4        |
| 23       | 3-2652   | Wheel Bolt                     | 2        |
| 24       | 2-2610   | Wheel Gear & Bushing           | 2        |
| 25       | 3-5235   | Wheel Cover                    | 2        |
| 26       | 251-183  | Bearing                        | 2        |
| 27       | 2-6369   | Pivot Arm (Incl. Ref. 28 & 30) | 1        |
| 28       | 256-1    | Bushing                        | 2        |
| 29       | 5-0745   | End Cap                        | 2        |
| 30       | 253-86   | Oil Seal                       | 2        |
| 31       | 256-110  | Bushing                        | 2        |
| 32       | 5-1616   | Worm Shaft                     | 1        |
| 33       | 11-9760  | Screw                          | 4        |
| 34       | 5-4609   | Gear Case (Incl. Ref. #33)     | 1        |
| 35       | 32121-40 | Roll Pin                       | 1        |
| 36       | 3-0721   | Sleeve                         | 1        |
| 37       | 12-2050  | Clutch Jaw                     | 1        |
| 38       | 3-0723   | Worm Gear                      | 1        |
| 39       | 3-0724   | Thrust Washer                  | 1        |
| *        | 11-8670  | Complete Gear Case             | 1        |

\* Not Illustrated

# ENGINE BRIGGS & STRATTON — Model No. 92508-0844-01 For 19" Hand Propelled Model No. 16017

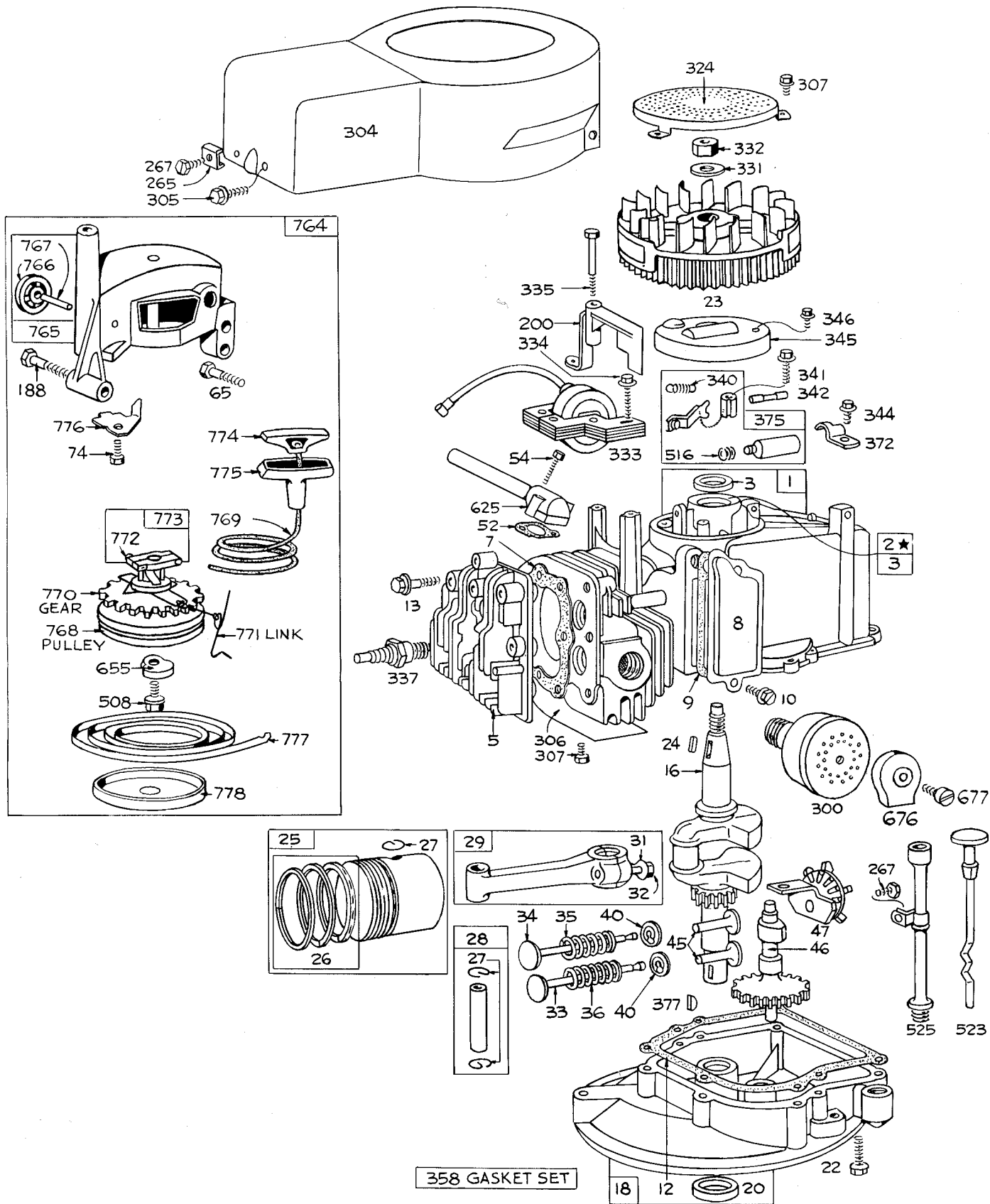


| Ref. No. | Part No. | Description                                                                                                                                                                | No. Used |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1        | 298988   | Cylinder Assembly                                                                                                                                                          | 1        |
| 2        | 293708   | Bushing, Cylinder <b>Note:</b> Requires special tools for installation.                                                                                                    | 1        |
| 3        | 89660    | Seal, Oil                                                                                                                                                                  | 1        |
| 5        | 211479   | Head, Cylinder                                                                                                                                                             | 1        |
| 7        | 270341   | Gasket, Cylinder Head                                                                                                                                                      | 1        |
| 8        | 298383   | Breather, Valve Chamber                                                                                                                                                    | 1        |
| 9        | *270239  | Gasket, Valve Cover                                                                                                                                                        | 1        |
| 10       | 93394    | Screw, Breather Mtg. Sem                                                                                                                                                   | 1        |
| 12       | *27586   | Gasket, Crankcase, .015" Thick (Standard)                                                                                                                                  | 1        |
|          | *27617   | Gasket, Crankcase, .005" Thick                                                                                                                                             | 1        |
|          | *27618   | Gasket, Crankcase, .009" Thick                                                                                                                                             | 1        |
| 13       | 93111    | Screw, Cylinder Head                                                                                                                                                       | 1        |
| 15       | 93418    | Plug, Oil Drain                                                                                                                                                            | 1        |
| 16       | 261050   | Crankshaft                                                                                                                                                                 | 1        |
| 18       | 390068   | Sump, Oil                                                                                                                                                                  | 1        |
| 20       | 291841   | Seal, Oil                                                                                                                                                                  | 1        |
| 21       | 66768    | Plug, Oil Filler                                                                                                                                                           | 1        |
| 22       | 93032    | Screw, Sump Mtg. Sem                                                                                                                                                       | 1        |
| 23       | 299982   | Flywheel, Magneto                                                                                                                                                          | 1        |
| 24       | 61760    | Key, Flywheel                                                                                                                                                              | 1        |
| 25       | 298904   | Piston Assy., Standard                                                                                                                                                     | 1        |
|          | 298905   | Piston Assy., .010" O.S.                                                                                                                                                   | 1        |
|          | 298906   | Piston Assy., .020" O.S.                                                                                                                                                   | 1        |
|          | 298907   | Piston Assy., .030" O.S.                                                                                                                                                   | 1        |
|          |          | <b>RING SETS: Note:</b> For Chrome Piston Ring Set, Std. Size, Order Part #299742                                                                                          |          |
| 26       | 298982   | Ring Set, Std. Piston, Consists of: 211467 Ring, Piston, Comp., Top, Std., 211468 Ring, Piston, Comp., Ctr., Std., 211469 Ring, Piston, Oil, Std.                          | 1        |
|          | 298983   | Ring Set, .010" O.S., Piston, Consists of: 211504 Ring, Piston, Comp., Top, .010" O.S., 211503 Ring, Piston, Comp., Ctr., .010" O.S., 211505 Ring, Piston, Oil, .010" O.S. | 1        |
|          | 298984   | Ring Set, .020" O.S., Piston, Consists of: 211507 Ring, Piston, Comp., Top, .020" O.S., 211506 Ring, Piston, Comp., Ctr., .020" O.S., 211508 Ring, Piston, Oil, .020" O.S. | 1        |
|          | 298985   | Ring Set, .030" O.S. Piston, Consists of: 211511 Ring, Piston, Comp., Top, .030" O.S., 211510 Ring, Piston, Comp., Ctr., .030" O.S., 211512 Ring, Piston, Oil, .030" O.S.  | 1        |
| 27       | 26026    | Lock, Piston Pin                                                                                                                                                           | 1        |
| 28       | 298909   | Pin Assy., Piston, Std.                                                                                                                                                    | 1        |
|          | 298908   | Pin Assy., Piston, .005" O.S.                                                                                                                                              | 1        |
| 29       | 294201   | Rod Assy., Connecting                                                                                                                                                      | 1        |
| 31       | 220756   | Lock, Conn. Rod Screw                                                                                                                                                      | 1        |

| Ref. No. | Part No. | Description                                                                                                          | No. Used |
|----------|----------|----------------------------------------------------------------------------------------------------------------------|----------|
| 32       | 92296    | Screw, Connecting Rod                                                                                                | 1        |
| 33       | 296676   | Valve, Exhaust                                                                                                       | 1        |
| 34       | 296677   | Valve, Intake                                                                                                        | 1        |
| 35       | 260552   | Spring, Intake Valve                                                                                                 | 1        |
| 36       | 26478    | Spring, Exhaust Valve                                                                                                | 1        |
| 40       | 93312    | Retainer, Valve Spring                                                                                               | 1        |
| 45       | 230173   | Tappet, Valve                                                                                                        | 1        |
| 46       | 210453   | Gear, Cam                                                                                                            | 1        |
| 47       | 294652   | Oil Slinger Gear & Bracket                                                                                           | 1        |
| 52       | 270345   | Gasket, Intake Elbow                                                                                                 | 1        |
| 54       | 93485    | Screw, Intake Elbow Mtg.                                                                                             | 1        |
| 65       | 93587    | Screw, Vert. Pull Starter Mtg.                                                                                       | 1        |
| 74       | 93490    | Screw, Sem                                                                                                           | 1        |
| 188      | 93585    | Screw, Fuel Tank & Start. Mtg.                                                                                       | 1        |
| 200      | 68388    | Blade, Governor                                                                                                      | 1        |
| 265      | 22372    | Clamp, Casing                                                                                                        | 1        |
| 267      | 93469    | Screw, Clamp Mounting                                                                                                | 1        |
| 300      | 298830   | Muffler, Exhaust                                                                                                     | 1        |
| 304      | 299983   | Housing, Blower                                                                                                      | 1        |
| 305      | 93559    | Screw, Blow. Hsg. Mtg. Sem                                                                                           | 1        |
| 306      | 221805   | Shield, Cylinder                                                                                                     | 1        |
| 307      | 93490    | Screw, Cyl. Shield & Rotating Screen Mtg. Sem                                                                        | 1        |
| 324      | 222063   | Screen, Rotating                                                                                                     | 1        |
| 331      | 220865   | Washer, Flywheel                                                                                                     | 1        |
| 332      | 92284    | Nut, Flywheel                                                                                                        | 1        |
| 333      | 298502   | Armature, Magneto                                                                                                    | 1        |
| 334      | 93381    | Screw, Armature Mtg. Sem                                                                                             | 1        |
| 335      | 93435    | Screw, Armature & Governor Blade Mtg. Sem                                                                            | 1        |
| 337      | 298809   | Plug, Spark (w/Gasket)                                                                                               | 1        |
| 340      | 26018    | Spring, Breaker Arm                                                                                                  | 1        |
| 341      | 93381    | Screw, Break. Arm Mtg. Sem                                                                                           | 1        |
| 342      | 65704    | Plunger, Breaker Point                                                                                               | 1        |
| 344      | 93042    | Screw, Cond. Clamp Mtg. Sem                                                                                          | 1        |
| 345      | 220366   | Cover, Break. Point & Cond.                                                                                          | 1        |
| 346      | 93014    | Screw, Dust Cover Mtg.                                                                                               | 1        |
| 358      | 298989   | Gasket Set                                                                                                           | 1        |
| 372      | 220477   | Clamp, Condenser                                                                                                     | 1        |
| 375      | 294628   | Breaker Pts. & Cond. Set <b>Note:</b> 229061 Ignition Kit Incl. 294628 Point Set, 65704 Plunger, 61760 Key, Flywheel | 1        |
| 377      | 93065    | Key, Woodruff No. 505                                                                                                | 1        |
| 508      | 93158    | Screw, Sem                                                                                                           | 1        |
| 516      | 260374   | Spring, Connector                                                                                                    | 1        |
| 625      | 298775   | Tube, Fuel Intake                                                                                                    | 1        |
| 655      | 222057   | Anchor, Spring                                                                                                       | 1        |
| 676      | 221794   | Deflector, Muffler                                                                                                   | 1        |
| 677      | 93606    | Screw, Muffler Deflector                                                                                             | 1        |
| 764      | 299946   | Starter Assy., Vertical Pull                                                                                         | 1        |
| 765      | 299947   | Housing, Vert. Pull Starter                                                                                          | 1        |
| 766      | 280022   | Pulley, Rope (Small)                                                                                                 | 1        |
| 767      | 93586    | Pin, Small Rope Pulley                                                                                               | 1        |
| 768      | 280018   | Pulley, Rope Gear                                                                                                    | 1        |
| 769      | 66734    | Rope, Vert. Pull Starter                                                                                             | 1        |
| 770      | 280020   | Gear, Vert. Pull Starter                                                                                             | 1        |
| 771      | 299961   | Clip, Vert. Pull Starter                                                                                             | 1        |
| 772      | 93598    | Screw, Sem                                                                                                           | 1        |
| 773      | 390112   | Retainer Assy., Spur Gear                                                                                            | 1        |
| 774      | 280035   | Insert, Starter Handle                                                                                               | 1        |
| 775      | 280036   | Grip, Starter Rope                                                                                                   | 1        |
| 776      | 222049   | Guide, Rope                                                                                                          | 1        |
| 777      | 390066   | Spring, Vert. Pull Starter                                                                                           | 1        |
| 778      | 280021   | Cover, Vert. Pull Start. Cover                                                                                       | 1        |

\*Included in Gasket Set — Part #298989

**ENGINE BRIGGS & STRATTON – Model No. 92908-1223-01**  
**For 21" Hand Propelled Model No. 16123**



★ NOTE: SPECIAL TOOLS REQUIRED FOR INSTALLING.

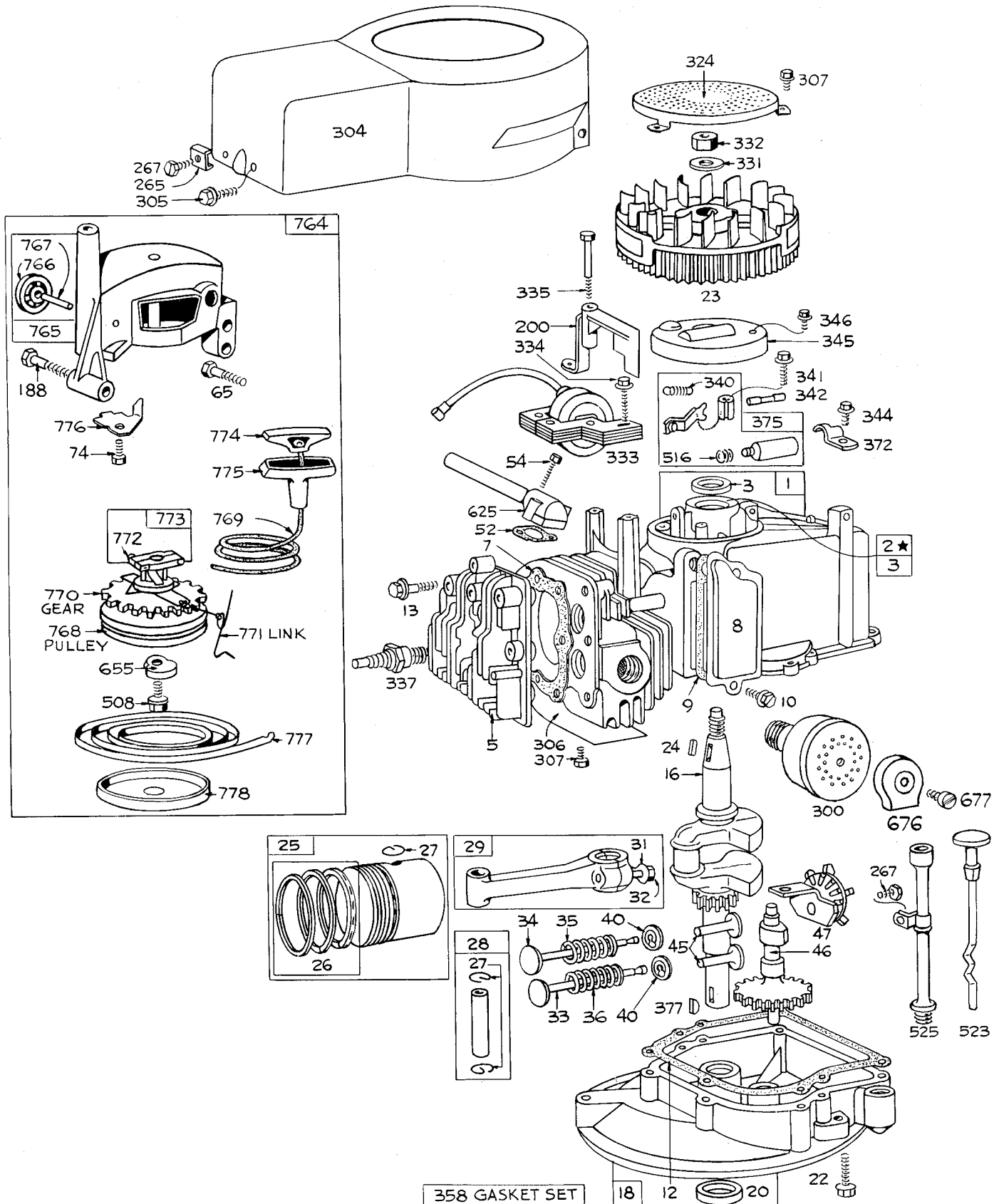


| Ref. No. | Part No. | Description                                                                                                                                                               | No. Used |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1        | 298988   | Cylinder Assembly                                                                                                                                                         | 1        |
| 2        | 293708   | Bushing, Cylinder <b>Note:</b> Requires special tools for installation                                                                                                    | 1        |
| 3        | 89660    | Seal, Oil                                                                                                                                                                 | 1        |
| 5        | 211479   | Head, Cylinder                                                                                                                                                            | 1        |
| 7        | 270341   | Gasket, Cylinder Head                                                                                                                                                     | 1        |
| 8        | 298383   | Breather, Valve Chamber                                                                                                                                                   | 1        |
| 9        | *270239  | Gasket, Valve Cover                                                                                                                                                       | 1        |
| 10       | 93394    | Screw, Breather & P.T.O. Gear Sump Cover (Ref. No. 86)                                                                                                                    | 1        |
|          |          | Mounting Sem                                                                                                                                                              | 1        |
| 12       | *27586   | Gasket, Crankcase, .015" Thick (Standard)                                                                                                                                 | 1        |
|          | *27617   | Gasket, Crankcase, .005" Thk.                                                                                                                                             | 1        |
|          | *27618   | Gasket, Crankcase, .009" Thk.                                                                                                                                             | 1        |
| 13       | 93111    | Screw, Cylinder Head                                                                                                                                                      | 1        |
| 16       | 261050   | Crankshaft                                                                                                                                                                | 1        |
| 18       | 390810   | Sump, Oil                                                                                                                                                                 | 1        |
| 20       | 291841   | Seal, Oil                                                                                                                                                                 | 1        |
| 22       | 93032    | Screw, Sump Mtg. Sem                                                                                                                                                      | 1        |
| 23       | 299982   | Flywheel, Magneto                                                                                                                                                         | 1        |
| 24       | 61760    | Key, Flywheel                                                                                                                                                             | 1        |
| 25       | 298904   | Piston Assy., Standard                                                                                                                                                    | 1        |
|          | 298905   | Piston Assy., .010" O.S.                                                                                                                                                  | 1        |
|          | 298906   | Piston Assy., .020" O.S.                                                                                                                                                  | 1        |
|          | 298907   | Piston Assy., .030" O.S.                                                                                                                                                  | 1        |
|          |          | <b>RING SETS: Note:</b> For Chrome Piston Ring Set, Std. Size, Order Part #299742.                                                                                        |          |
| 26       | 298982   | Ring Set, Std. Piston, Consists of: 211467 Ring, Piston, Comp., Top, Std., 211468 Ring, Piston, Comp., Ctr., Std. 211469 Ring, Piston, Oil, Std.                          | 1        |
|          | 298983   | Ring Set, .010" O.S. Piston, Consists of: 211504 Ring, Piston, Comp., Top, .010" O.S. 211503 Ring, Piston, Comp., Ctr., .010" O.S., 211505 Ring, Piston, Oil, .010" O.S.  | 1        |
|          | 298984   | Ring Set, .010" O.S. Piston, Consists of: 211507 Ring, Piston, Top, .010" O.S., 211506 Ring, Piston, Comp., Ctr., .020" O.S., 211508 Ring, Piston, Oil, .020" O.S.        | 1        |
|          | 298985   | Ring Set, .030" O.S. Piston, Consists of: 211511 Ring, Piston, Comp., Top, .030" O.S., 211510 Ring, Piston, Comp., Ctr., .030" O.S., 211512 Ring, Piston, Oil, .030" O.S. | 1        |
| 27       | 26026    | Lock, Piston Pin                                                                                                                                                          | 1        |
| 28       | 298909   | Pin Assy., Piston, Std.                                                                                                                                                   | 1        |
|          | 298908   | Pin Assy., Piston, .005" O.S.                                                                                                                                             | 1        |
| 29       | 294201   | Rod Assy., Connecting                                                                                                                                                     | 1        |
| 31       | 220756   | Lock, Conn. Rod Screw                                                                                                                                                     | 1        |
| 32       | 92296    | Screw, Connecting Rod                                                                                                                                                     | 1        |
| 33       | 296676   | Valve, Exhaust                                                                                                                                                            | 1        |
| 34       | 296677   | Valve, Intake                                                                                                                                                             | 1        |
| 35       | 260552   | Spring, Intake Valve                                                                                                                                                      | 1        |

| Ref. No. | Part No. | Description                                                                                                                           | No. Used |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| 36       | 26478    | Spring, Exhaust Valve                                                                                                                 | 1        |
| 40       | 93312    | Retainer, Valve Spring                                                                                                                | 1        |
| 45       | 230173   | Tappet, Valve                                                                                                                         | 1        |
| 46       | 210453   | Gear, Cam                                                                                                                             | 1        |
| 47       | 294652   | Oil Slinger Gear & Bracket                                                                                                            | 1        |
| 52       | 270345   | Gasket, Intake Elbow                                                                                                                  | 1        |
| 54       | 93485    | Screw, Intake Elbow Mtg.                                                                                                              | 1        |
| 65       | 93587    | Screw, Vert. Pull Start. Mtg.                                                                                                         | 1        |
| 74       | 93490    | Screw, Sem                                                                                                                            | 1        |
| 188      | 93585    | Screw, Fuel Tank & Start. Mtg.                                                                                                        | 1        |
| 200      | 68388    | Blade, Governor                                                                                                                       | 1        |
| 265      | 22372    | Clamp, Casing                                                                                                                         | 1        |
| 267      | 93469    | Screw, Clamp Mounting                                                                                                                 | 1        |
| 300      | 298830   | Muffler, Exhaust                                                                                                                      | 1        |
| 304      | 299983   | Housing, Blower                                                                                                                       | 1        |
| 305      | 93559    | Screw, Blow. Hsg. Mtg. Sem                                                                                                            | 1        |
| 306      | 221805   | Shield, Cylinder                                                                                                                      | 1        |
| 307      | 93490    | Screw, Cyl. Shield & Rotating Screen Mounting Sem                                                                                     | 1        |
|          |          | Screen, Rotating                                                                                                                      | 1        |
| 324      | 222063   | Washer, Flywheel                                                                                                                      | 1        |
| 331      | 220865   | Nut, Flywheel                                                                                                                         | 1        |
| 332      | 92284    | Armature, Magneto                                                                                                                     | 1        |
| 333      | 298502   | Screw, Armature Mtg. Sem                                                                                                              | 1        |
| 334      | 93381    | Screw, Armature & Governor Blade Mtg. Sem                                                                                             | 1        |
| 335      | 93435    | Plug, Spark (w/ Gasket)                                                                                                               | 1        |
| 337      | 298809   | Spring, Breaker Arm                                                                                                                   | 1        |
| 340      | 26018    | Screw, Break. Arm Mtg. Sem                                                                                                            | 1        |
| 341      | 93381    | Plunger, Breaker Point                                                                                                                | 1        |
| 342      | 65704    | Screw, Cond. Clamp Mtg. Sem                                                                                                           | 1        |
| 344      | 93042    | Cover, Breaker Pt. & Cond.                                                                                                            | 1        |
| 345      | 220366   | Screw, Dust Cover Mtg.                                                                                                                | 1        |
| 346      | 93014    | Gasket Set <b>Note:</b> For Engine Repair Kit, Order #390132                                                                          | 1        |
| 358      | 298989   | Clamp, Condenser                                                                                                                      | 1        |
| 372      | 220477   | Break. Points & Cond. Set                                                                                                             |          |
| 375      | 294628   | <b>Note:</b> 299061 Ignition Kit Includes: 294628 Point Set, 65704 Plunger, 61760 Key, Flywheel (For Engine Repair Kit Order #390132) | 1        |
| 377      | 93065    | Key, Woodruff #505                                                                                                                    | 1        |
| 508      | 93158    | Screw, Sem                                                                                                                            | 1        |
| 516      | 260374   | Spring, Connector                                                                                                                     | 1        |
| 523      | 299978   | Cap w/ Dipstick Oil Filler                                                                                                            | 1        |
| 525      | 299987   | Tube, Oil Filler                                                                                                                      | 1        |
| 625      | 298775   | Tube, Fuel Intake                                                                                                                     | 1        |
| 655      | 222057   | Anchor, Spring                                                                                                                        | 1        |
| 676      | 221794   | Deflector, Muffler                                                                                                                    | 1        |
| 677      | 93606    | Screw, Muffler Deflector                                                                                                              | 1        |
| 764      | 299946   | Starter Assy., Vertical Pull                                                                                                          | 1        |
| 765      | 299947   | Housing, Vertical Pull Start.                                                                                                         | 1        |
| 766      | 280022   | Pulley, Rope (Small)                                                                                                                  | 1        |
| 767      | 93586    | Pin, Small Rope Pulley                                                                                                                | 1        |
| 768      | 280018   | Pulley, Rope Gear                                                                                                                     | 1        |
| 769      | 66734    | Rope, Vert. Pull Starter                                                                                                              | 1        |
| 770      | 280020   | Gear, Vert. Pull Starter                                                                                                              | 1        |
| 771      | 299961   | Clip, Vertical Pull Starter                                                                                                           | 1        |
| 772      | 93598    | Screw, Sem                                                                                                                            | 1        |
| 773      | 390112   | Retainer Assy., Spur Gear                                                                                                             | 1        |
| 774      | 280035   | Insert, Starter Handle                                                                                                                | 1        |
| 775      | 280036   | Grip, Starter Rope                                                                                                                    | 1        |
| 776      | 222049   | Guide, Rope                                                                                                                           | 1        |
| 777      | 390066   | Spring, Vert. Pull Starter                                                                                                            | 1        |
| 778      | 280021   | Cover, Vertical Pull Starter Pulley                                                                                                   | 1        |

\*Included in Gasket Set – Part #298989

# ENGINE BRIGGS & STRATTON – Model No. 92908-1224-01 For 21" Self-Propelled Model No. 16233



★ NOTE: SPECIAL TOOLS REQUIRED FOR INSTALLING.

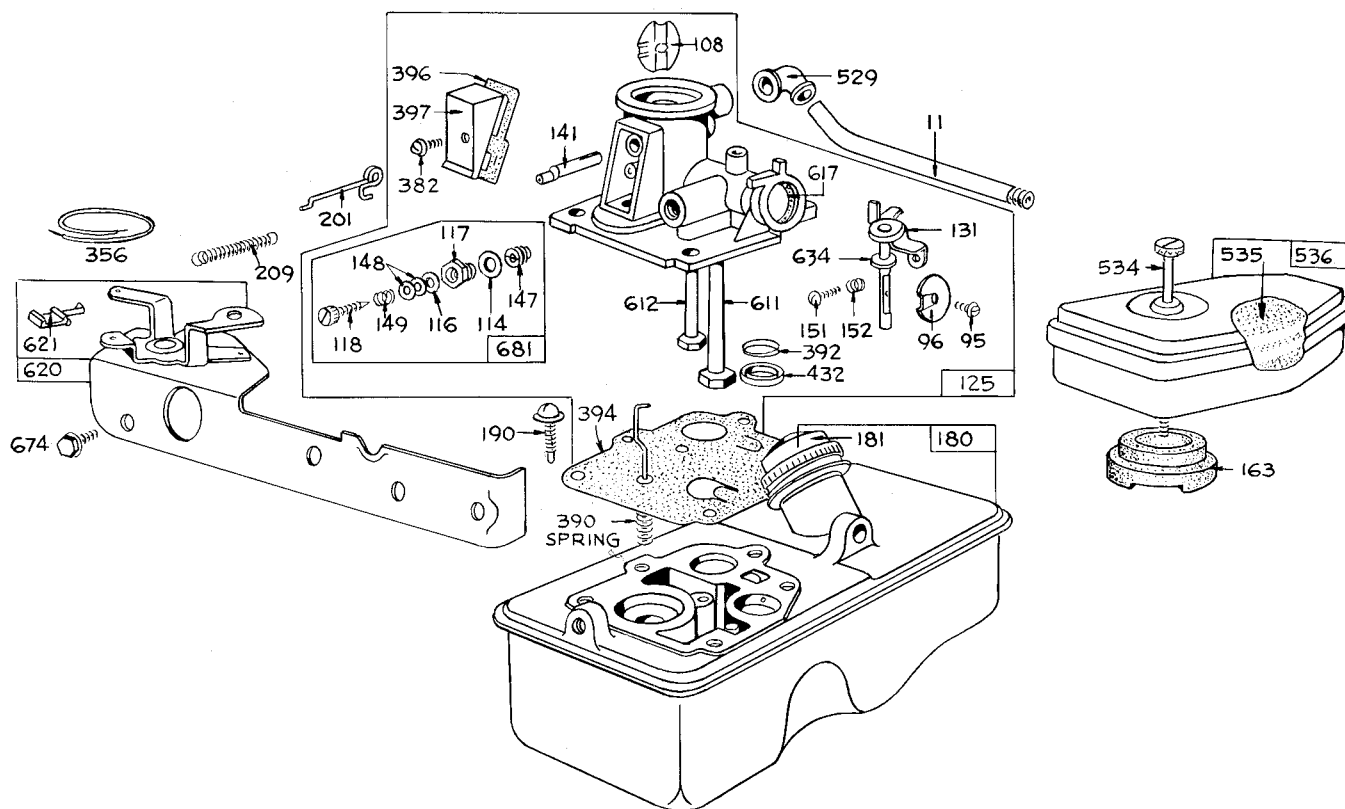
| Ref. No. | Part No. | Description                                                                                                                                                               | No. Used |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1        | 298988   | Cylinder Assembly                                                                                                                                                         | 1        |
| 2        | 293708   | Bushing, Cylinder <b>Note:</b> Requires special tools for installation                                                                                                    | 1        |
| 3        | 89660    | Seal, Oil                                                                                                                                                                 | 1        |
| 5        | 211479   | Head, Cylinder                                                                                                                                                            | 1        |
| 7        | 270341   | Gasket, Cylinder Head                                                                                                                                                     | 1        |
| 8        | 298383   | Breather, Valve Chamber                                                                                                                                                   | 1        |
| 9        | *270239  | Gasket, Valve Cover                                                                                                                                                       | 1        |
| 10       | 93394    | Screw, Breather & P.T.O. Gear Sump Cover (Ref. No. 86) Mounting Sem                                                                                                       | 1        |
| 12       | *27586   | Gasket, Crankcase, .015" Thick (Standard)                                                                                                                                 | 1        |
|          | *27617   | Gasket, Crankcase, .005" Thk.                                                                                                                                             | 1        |
|          | *27618   | Gasket, Crankcase, .009" Thk.                                                                                                                                             | 1        |
| 13       | 93111    | Screw, Cylinder Head                                                                                                                                                      | 1        |
| 16       | 261133   | Crankshaft                                                                                                                                                                | 1        |
| 18       | 390810   | Sump, Oil                                                                                                                                                                 | 1        |
| 20       | 291841   | Seal, Oil                                                                                                                                                                 | 1        |
| 22       | 93032    | Screw, Sump Mtg. Sem                                                                                                                                                      | 1        |
| 23       | 299982   | Flywheel, Magneto                                                                                                                                                         | 1        |
| 24       | 61760    | Key, Flywheel                                                                                                                                                             | 1        |
| 25       | 298904   | Piston Assy., Standard                                                                                                                                                    | 1        |
|          | 298905   | Piston Assy., .010" O.S.                                                                                                                                                  | 1        |
|          | 298906   | Piston Assy., .020" O.S.                                                                                                                                                  | 1        |
|          | 298907   | Piston Assy., .030" O.S.                                                                                                                                                  | 1        |
|          |          | <b>RING SETS: Note:</b> For Chrome Piston Ring Set, Std. Size, Order Part #299742.                                                                                        |          |
| 26       | 298982   | Ring Set, Std. Piston, Consists of: 211467 Ring, Piston, Comp., Top, Std., 211468 Ring, Piston, Comp., Ctr., Std. 211469 Ring, Piston, Oil, Std.                          | 1        |
|          | 298983   | Ring Set, .010" O.S. Piston, Consists of: 211504 Ring, Piston, Comp., Top, .010" O.S. 211503 Ring, Piston, Comp., Ctr., .010" O.S., 211505 Ring, Piston, Oil, .010" O.S.  | 1        |
|          | 298984   | Ring Set, .010" O.S. Piston, Consists of: 211507 Ring, Piston, Top, .010" O.S., 211506 Ring, Piston, Comp., Ctr., .020" O.S., 211508 Ring, Piston, Oil, .020" O.S.        | 1        |
|          | 298985   | Ring Set, .030" O.S. Piston, Consists of: 211511 Ring, Piston, Comp., Top, .030" O.S., 211510 Ring, Piston, Comp., Ctr., .030" O.S., 211512 Ring, Piston, Oil, .030" O.S. | 1        |
| 27       | 26026    | Lock, Piston Pin                                                                                                                                                          | 1        |
| 28       | 298909   | Pin Assy., Piston, Std.                                                                                                                                                   | 1        |
|          | 298908   | Pin Assy., Piston, .005" O.S.                                                                                                                                             | 1        |
| 29       | 294201   | Rod Assy., Connecting                                                                                                                                                     | 1        |
| 31       | 220756   | Lock, Conn. Rod Screw                                                                                                                                                     | 1        |
| 32       | 92296    | Screw, Connecting Rod                                                                                                                                                     | 1        |
| 33       | 296676   | Valve, Exhaust                                                                                                                                                            | 1        |
| 34       | 296677   | Valve, Intake                                                                                                                                                             | 1        |
| 35       | 260552   | Spring, Intake Valve                                                                                                                                                      | 1        |

\*Included in Gasket Set – Part #298989

| Ref. No. | Part No. | Description                                                                                                                                                     | No. Used |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 36       | 26478    | Spring, Exhaust Valve                                                                                                                                           | 1        |
| 40       | 93312    | Retainer, Valve Spring                                                                                                                                          | 1        |
| 45       | 230173   | Tappet, Valve                                                                                                                                                   | 1        |
| 46       | 210453   | Gear, Cam                                                                                                                                                       | 1        |
| 47       | 294652   | Oil Slinger Gear & Bracket                                                                                                                                      | 1        |
| 52       | 270345   | Gasket, Intake Elbow                                                                                                                                            | 1        |
| 54       | 93485    | Screw, Intake Elbow Mtg.                                                                                                                                        | 1        |
| 65       | 93587    | Screw, Vert. Pull Start. Mtg.                                                                                                                                   | 1        |
| 74       | 93490    | Screw, Sem                                                                                                                                                      | 1        |
| 188      | 93585    | Screw, Fuel Tank & Start. Mtg.                                                                                                                                  | 1        |
| 200      | 68388    | Blade, Governor                                                                                                                                                 | 1        |
| 265      | 22372    | Clamp, Casing                                                                                                                                                   | 1        |
| 267      | 93469    | Screw, Clamp Mounting                                                                                                                                           | 1        |
| 300      | 298830   | Muffler, Exhaust                                                                                                                                                | 1        |
| 304      | 299983   | Housing, Blower                                                                                                                                                 | 1        |
| 305      | 93559    | Screw, Blow. Hsg. Mtg. Sem                                                                                                                                      | 1        |
| 306      | 221805   | Shield, Cylinder                                                                                                                                                | 1        |
| 307      | 93490    | Screw, Cyl. Shield & Rotating Screen Mounting Sem                                                                                                               | 1        |
| 324      | 222063   | Screen, Rotating                                                                                                                                                | 1        |
| 331      | 220865   | Washer, Flywheel                                                                                                                                                | 1        |
| 332      | 92284    | Nut, Flywheel                                                                                                                                                   | 1        |
| 333      | 298502   | Armature, Magneto                                                                                                                                               | 1        |
| 334      | 93381    | Screw, Armature Mtg. Sem                                                                                                                                        | 1        |
| 335      | 93435    | Screw, Armature & Governor Blade Mtg. Sem                                                                                                                       | 1        |
| 337      | 298809   | Plug, Spark (w/Gasket)                                                                                                                                          | 1        |
| 340      | 26018    | Spring, Breaker Arm                                                                                                                                             | 1        |
| 341      | 93381    | Screw, Break. Arm Mtg. Sem                                                                                                                                      | 1        |
| 342      | 65704    | Plunger, Breaker Point                                                                                                                                          | 1        |
| 344      | 93042    | Screw, Cond. Clamp Mtg. Sem                                                                                                                                     | 1        |
| 345      | 220366   | Cover, Breaker Pt. & Cond.                                                                                                                                      | 1        |
| 346      | 93014    | Screw, Dust Cover Mtg.                                                                                                                                          | 1        |
| 358      | 298989   | Gasket Set <b>Note:</b> For Engine Repair Kit, Order #390132                                                                                                    | 1        |
| 372      | 220477   | Clamp, Condenser                                                                                                                                                | 1        |
| 375      | 294628   | Break. Points & Cond. Set <b>Note:</b> 299061 Ignition Kit Includes: 294628 Point Set, 65704 Plunger, 61760 Key, Flywheel (For Engine Repair Kit Order #390132) | 1        |
| 377      | 93065    | Key, Woodruff #505                                                                                                                                              | 1        |
| 508      | 93158    | Screw, Sem                                                                                                                                                      | 1        |
| 516      | 260374   | Spring, Connector                                                                                                                                               | 1        |
| 523      | 299978   | Cap w/Dipstick Oil Filler                                                                                                                                       | 1        |
| 525      | 299987   | Tube, Oil Filler                                                                                                                                                | 1        |
| 625      | 298775   | Tube, Fuel Intake                                                                                                                                               | 1        |
| 655      | 222057   | Anchor, Spring                                                                                                                                                  | 1        |
| 676      | 221794   | Deflector Screw                                                                                                                                                 | 1        |
| 677      | 93606    | Screw, Muffler Deflector                                                                                                                                        | 1        |
| 764      | 299946   | Starter Assy., Vertical Pull                                                                                                                                    | 1        |
| 765      | 299947   | Housing, Vertical Pull Start.                                                                                                                                   | 1        |
| 766      | 280022   | Pulley, Rope (Small)                                                                                                                                            | 1        |
| 767      | 93586    | Pin, Small Rope Pulley                                                                                                                                          | 1        |
| 768      | 280018   | Pulley, Rope Gear                                                                                                                                               | 1        |
| 769      | 66734    | Rope, Vert. Pull Starter                                                                                                                                        | 1        |
| 770      | 280020   | Gear, Vert. Pull Starter                                                                                                                                        | 1        |
| 771      | 299961   | Clip, Vertical Pull Starter                                                                                                                                     | 1        |
| 772      | 93598    | Screw, Sem                                                                                                                                                      | 1        |
| 773      | 390112   | Retainer Assy., Spur Gear                                                                                                                                       | 1        |
| 774      | 280035   | Insert, Starter Handle                                                                                                                                          | 1        |
| 775      | 280036   | Grip, Starter Rope                                                                                                                                              | 1        |
| 776      | 222049   | Guide, Rope                                                                                                                                                     | 1        |
| 777      | 390066   | Spring, Vert. Pull Starter                                                                                                                                      | 1        |
| 778      | 280021   | Cover, Vertical Pull Starter Pulley                                                                                                                             | 1        |



| Ref. No. | Part No. | Description               | No. Used |
|----------|----------|---------------------------|----------|
| 187      | 296476   | Pipe, Fuel                | 1        |
| 190      | 93440    | Screw, Fuel Tank Mtg. Sem | 1        |
| 201      | 261027   | Link, Governor            | 1        |
| 209      | 260877   | Spring, Governor          | 1        |
| 356      | 298479   | Wire, Ground              | 1        |
| 382      | 93545    | Screw, Choke Link Cover   | 1        |
| 392      | 261016   | Spring, Diaphragm         | 1        |
| 394      | 299637   | Diaphragm, Carburetor     | 1        |
| 396      | 270571   | Gasket, Choke Link Cover  | 1        |
| 397      | 211678   | Cover, Choke Link         | 1        |
| 529      | 67838    | Grommet, Breather         | 1        |
| 534      | 93374    | Screw, Air Cleaner        | 1        |
| 535      | 270579   | Element, Air Cleaner      | 1        |
| 536      | 390055   | Cleaner Assembly, Air     | 1        |
| 617      | 270344   | Seal, Intake Tube         | 1        |
| 620      | 299974   | Plate, Carburetor Control | 1        |
| 621      | 297472   | Switch, Stop              | 1        |
| 634      | 270167   | Washer, Throttle Shaft    | 1        |
| 674      | 93447    | Screw, Tank To Bracket    | 1        |
| 681      | 299060   | Needle Valve Kit          | 1        |



**CARBURETOR ASSEMBLY, Model No. 390065**  
**For 21" Hand Propelled Model No. 16123**  
**For 21" Self Propelled Model No. 16233**

| Ref. No. | Part No. | Description                        | No. Used |
|----------|----------|------------------------------------|----------|
| 11       | 230802   | Tube, Breather                     | 1        |
| 95       | 93499    | Screw, Throttle Valve Mounting Sem | 1        |
| 96       | 211237   | Valve, Throttle                    | 1        |
| 108      | 280024   | Valve, Choke                       | 1        |
| 114      | 66594    | Gasket, Needle Valve Nut           | 1        |
| 116      | 65978    | Packing, Needle Valve              | 1        |
| 117      | 230590   | Nut, Needle Valve                  | 1        |
| 118      | 23433    | Valve, Needle                      | 1        |
| 125      | 390065   | Carburetor Assembly                | 1        |
| 131      | 299977   | Shaft & Lever, Throttle            | 1        |
| 141      | 68908    | Shaft, Choke                       | 1        |
| 147      | 230591   | Seat, Needle Valve                 | 1        |
| 148      | 22235    | Washer, Needle Valve               | 2        |
| 149      | 26336    | Spring, Needle Valve               | 1        |
| 151      | 93524    | Screw, Round Head                  | 1        |
| 152      | 260746   | Spring, Throttle Adj.              | 1        |
| 163      | *270621  | Gasket, Air Cleaner Mtg.           | 1        |
| 180      | 299972   | Tank Assembly, Fuel                | 1        |
| 181      | 298425   | Cap, Fuel Tank                     | 1        |
| 190      | 93440    | Screw, Fuel Tank Mtg.              | 1        |
| 201      | 261027   | Link, Governor                     | 1        |

| Ref. No. | Part No. | Description                 | No. Used |
|----------|----------|-----------------------------|----------|
| 209      | 260877   | Spring, Governor            | 1        |
| 356      | 298479   | Wire, Ground                | 1        |
| 382      | 93545    | Screw, Choke Link Cover     | 1        |
| 390      | 261015   | Spring, Diaphragm           | 1        |
| 392      | 260455   | Spring, Fuel Pump Diaphragm | 1        |
| 394      | 299636   | Diaphragm, Carburetor       | 1        |
| 396      | 270571   | Gasket, Choke Link Cover    | 1        |
| 397      | 211678   | Cover, Choke Link           | 1        |
| 432      | 221377   | Cap, Spring                 | 1        |
| 529      | 67838    | Grommet, Breather           | 1        |
| 534      | 93374    | Screw, Air Cleaner          | 1        |
| 535      | 270579   | Element, Air Cleaner        | 1        |
| 536      | 390055   | Cleaner Assembly, Air       | 1        |
| 611      | 297219   | Pipe, Fuel (Long)           | 1        |
| 612      | 296811   | Pipe, Fuel (Short)          | 1        |
| 617      | 270344   | Seal, Fuel Intake Tube      | 1        |
| 620      | 299974   | Plate, Carburetor Control   | 1        |
| 621      | 297472   | Switch, Stop                | 1        |
| 634      | 270167   | Washer, Throttle Shaft      | 1        |
| 674      | 93447    | Screw, Tank to Bracket      | 1        |
| 681      | 299060   | Needle Valve Kit            | 1        |

\*Included in Gasket Set – Part #298989

## IMPORTANT ORDERING INSTRUCTIONS

Repair parts are available from your TORO service dealer. Correct parts and minimum delay are assured when you furnish the following information:

1. Model and Serial number found on mower's name plate.
2. Part number, description and quantity of each part required.
3. Name and address where parts are to be shipped.

Order only from part numbers; do not give reference numbers (parts catalog booklet available by request).

This book is intended as an operating and service guide for the average owner. We do not recommend that you attempt to make major engine repairs beyond the necessary adjustments and simple repairs required to keep your mower in good operating condition.

### THE TORO PROMISE

It is Toro's policy to design and produce Toro products to provide our customers with a high level of performance and durability in normal operation. Our products, however, are produced in high volume, and it is inevitable that occasionally a unit will reach a customer with a defect in materials or workmanship which causes that unit to fall below the normal high level of Toro

performance. Invariably, such a defect will be noticed in a residential product within one year, and in an institutional product within ninety days after purchase.

Recognizing this possibility, Toro has established a simple guarantee policy and procedure that is intended to assure customer satisfaction. This guarantee statement is as follows:

### The Toro Promise

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

|                                        |         |
|----------------------------------------|---------|
| Residential products                   | 1 year  |
| Residential products used commercially | 45 days |
| Institutional products                 | 90 days |

The costs of parts and labor are included, but the customer pays the transportation costs. Just return any residential product to a TORO Service Dealer, or any institutional product to a TORO distributor.

Should you feel that a product is defective, and wish to rely on The Toro Promise, the following procedure is recommended:

1. Contact any TORO dealer or distributor, but preferably the dealer or distributor from whom you purchased the product.
2. He will instruct you to either return the product to him, or tell you the name and address of your nearest TORO Service Dealer if the product is to be returned to such dealer.
3. Take the product and your original sales slip, or other evidence of purchase date, to the servicing 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 he performs, we urge you to contact us. Write:

TORO "Customer Care" Department  
8111 Lyndale Avenue South  
Minneapolis, Minnesota 55420

## MAINTENANCE RECORD

[illegible]

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