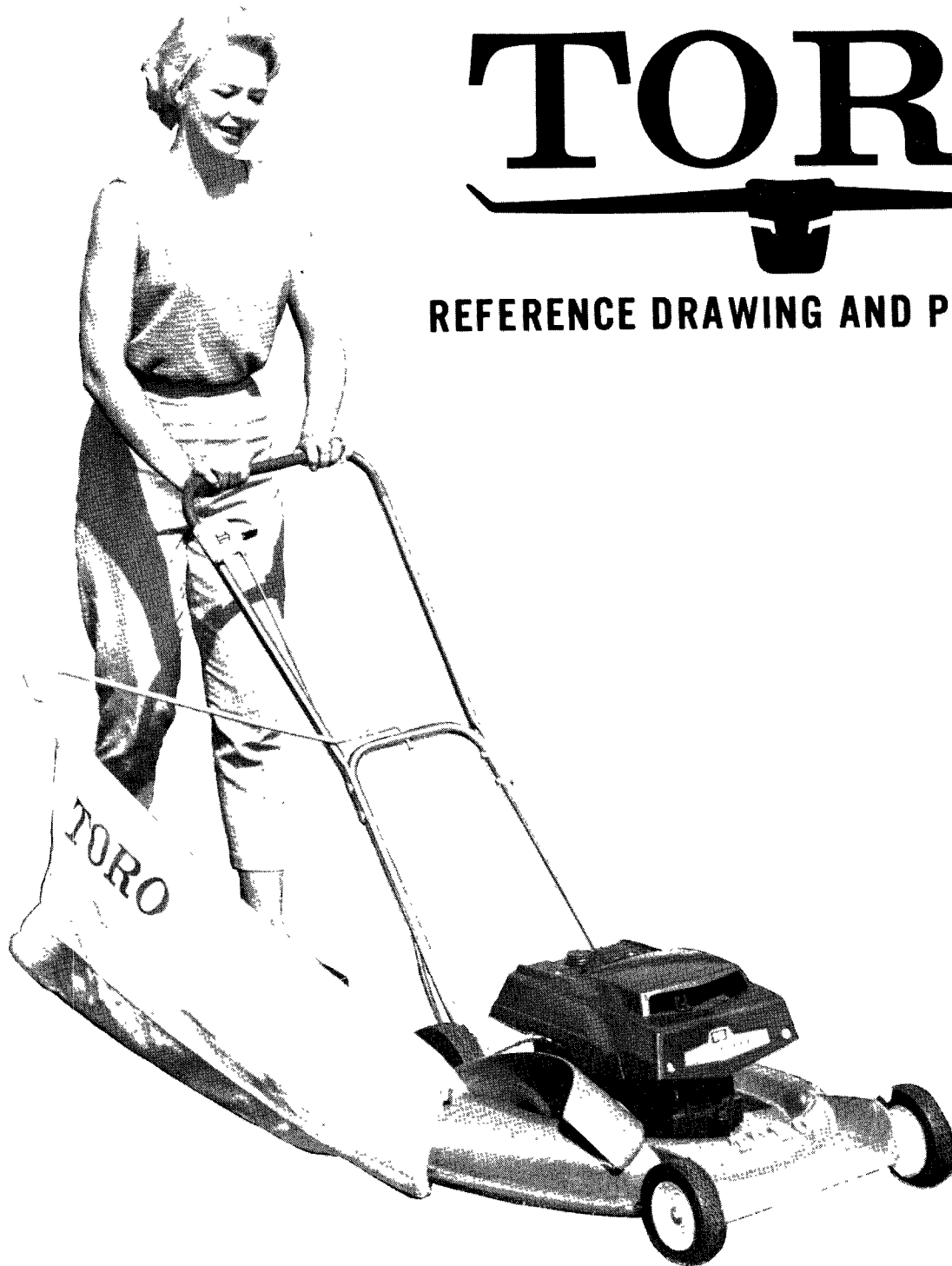


1961

# TORO

REFERENCE DRAWING AND PARTS LIST



## 19" WHIRLWIND - H.P.

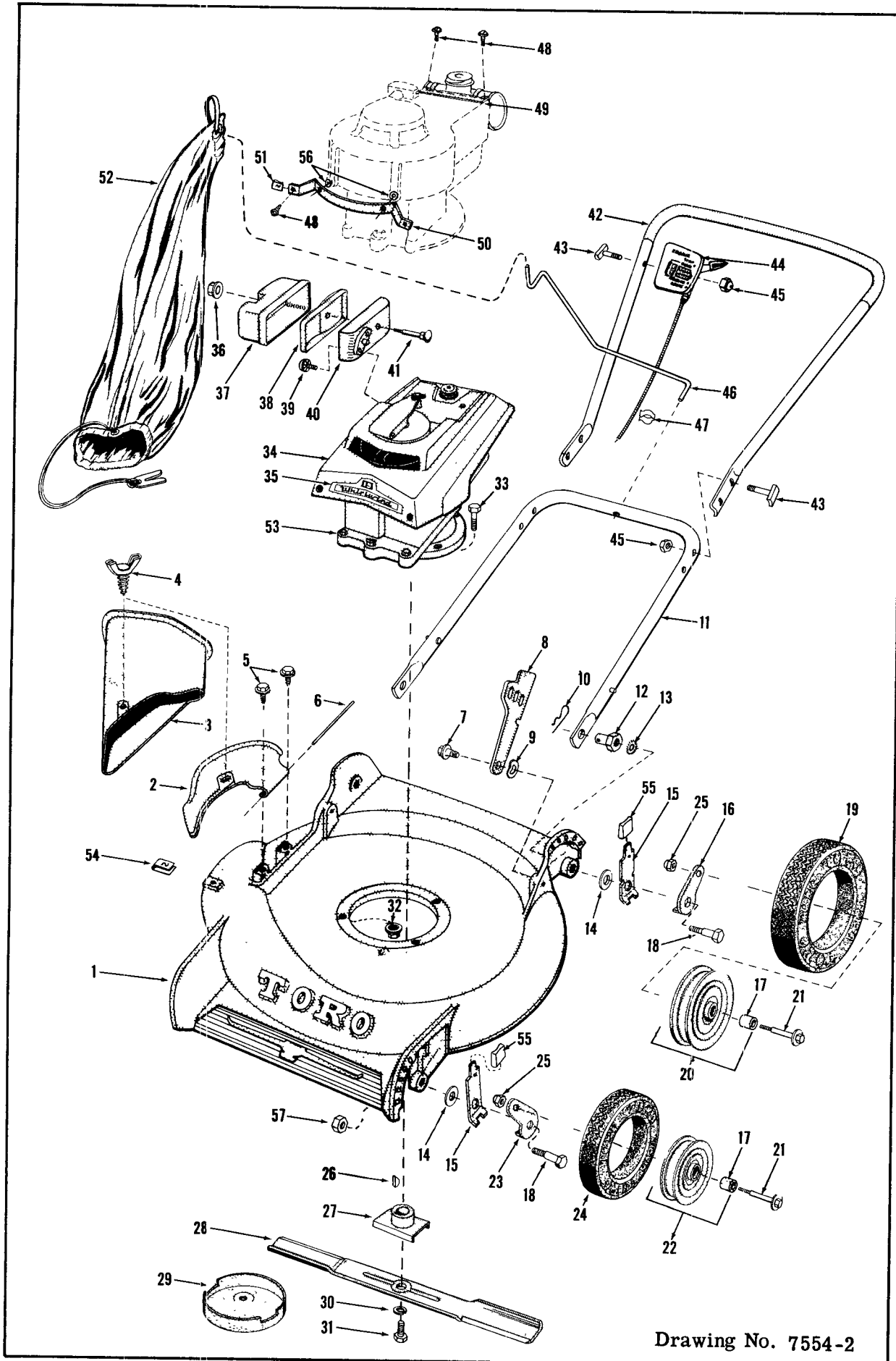
MODEL NOS. 18111 (RECOIL START)

MODEL NOS. 18121 (SPIN START)

BOOK NO. 7554

Price 25 cents

# MOWER DRAWING



Drawing No. 7554-2

# PARTS LIST

| Ref. No. | Part No. | Description                        | No. Used | Ref. No. | Part No. | Description                             | No. Used |
|----------|----------|------------------------------------|----------|----------|----------|-----------------------------------------|----------|
| 1        | 3-2437   | Main Frame                         | 1        | 30       | 3253-6   | Lockwasher, 7/16" Reg.                  | 1        |
| 2        | 3-2574   | Deflector                          | 1        | 31       | 3-2713   | Place Bolt                              | 1        |
| 3        | 3-2572   | Bag Attachment                     | 1        | 32       | 32149-1  | Nut, Keps                               | 3        |
| 4        | 3-2647   | Thumb Screw                        | 1        | 33       | 322-7    | Screw, Engine Mtg.                      | 3        |
| 5        | 32104-58 | Screw, Self Tap                    | 2        | 34       | 3-2565   | Engine Shroud                           | 1        |
| 6        | 3-2644   | Hinge Pin                          | 1        | 35       | 3-2653   | Decal                                   | 1        |
| 7        | 3-1846   | Screw, Shoulder                    | 2        | 36       | 32128-10 | Stop Nut                                | 1        |
| 8        | 3-2656   | Handle Latch                       | 2        | 37       | 3-2724   | Muffler, Free Side                      | 1        |
| 9        | 3290-218 | Washer, Spring                     | 2        | 38       | 3-2723   | Muffler Baffle                          | 1        |
| 10       | 3290-255 | Hairpin Cotter                     | 2        | 39       | 32140-17 | Screw, Sems                             | 2        |
| 11       | 3-0700   | Lower Handle                       | 1        | 40       | 3-2722   | Muffler, Engine Side                    | 1        |
| 12       | 3-0657   | Nut, Handle Pivot                  | 2        | 41       | 3229-12  | Carriage Bolt                           | 1        |
| 13       | 3255-18  | Lockwasher, Ext. Tooth             | 2        | 42       | 2-0989   | Handle W/Grip                           | 1        |
| 14       | 3-1478   | Pivot Washer                       | 4        | 43       | 3-2654   | Screw, Curved Head                      | 5        |
| 15       | 3-2637   | Arm Assy.                          | 4        | 44       | 3-2815   | Throttle Control Assy. For Recoil Start | 1        |
| 16       | 3-2634   | Pivot Arm, Left Rear & Right Front | 2        | 45       | 32128-11 | Stop Nut                                | 5        |
| 17       | 3-2664   | Bushing                            | 4        | 46       | 3-0690   | Bag Hanger                              | 1        |
| 18       | 3-0655   | Pivot Screw                        | 4        | 47       | 218-75   | Clip                                    | 1        |
| 19       | 4-2600   | Tire, Rear Wheel 8"                | 2        | 48       | 32104-64 | Screw, Self Tap                         | 4        |
| 20       | 3-2563   | Wheel, Rear 8", W/Bushing          | 2        | 49       | 3-1824   | Tank Shroud Bracket                     | 1        |
| 21       | 3-2652   | Wheel Bolt                         | 4        | 50       | 3-2772   | Front Shroud Bracket                    | 1        |
| 22       | 3-2564   | Wheel, Front 6", W/Bushing         | 2        | 51       | 3290-191 | Speed Nut                               | 2        |
| 23       | 3-2635   | Pivot Arm, Left Front & Right Rear | 2        | 52       | 3-0688   | Bag Assy.                               | 1        |
| 24       | 4-2610   | Tire, Front Wheel 6"               | 2        | 53       | 221-188  | Engine (Recoil Start)                   | 1        |
| 25       | 3296-5   | 3/8-24 Stop Nut                    | 4        | *        | Z121-15  | Serial No. Plate                        | 1        |
| 26       | 3257-3   | Key                                | 1        | 54       | 3290-190 | Speed Nut "U" Type                      | 1        |
| 27       | 3-0658   | Hub, Cutter Bar                    | 1        | 55       | 3-0650   | Knob                                    | 4        |
| 28       | 3-0662   | Cutter Bar                         | 1        | 56       | 3-1034   | Washer                                  | 2        |
| 29       | 3-2641   | Anti-Scalp Dish                    | 1        | 57       | 32146-5  | Stop Nut                                | 2        |
|          |          |                                    |          | 58       | 3-2566   | Shroud (Spin Start)                     | 1        |
|          |          |                                    |          | 59       | 221-189  | Engine (Spin Start)                     | 1        |
|          |          |                                    |          | *        | 3-2791   | Throttle Control Assy. For Spin Start   | 1        |

\*Not Illustrated

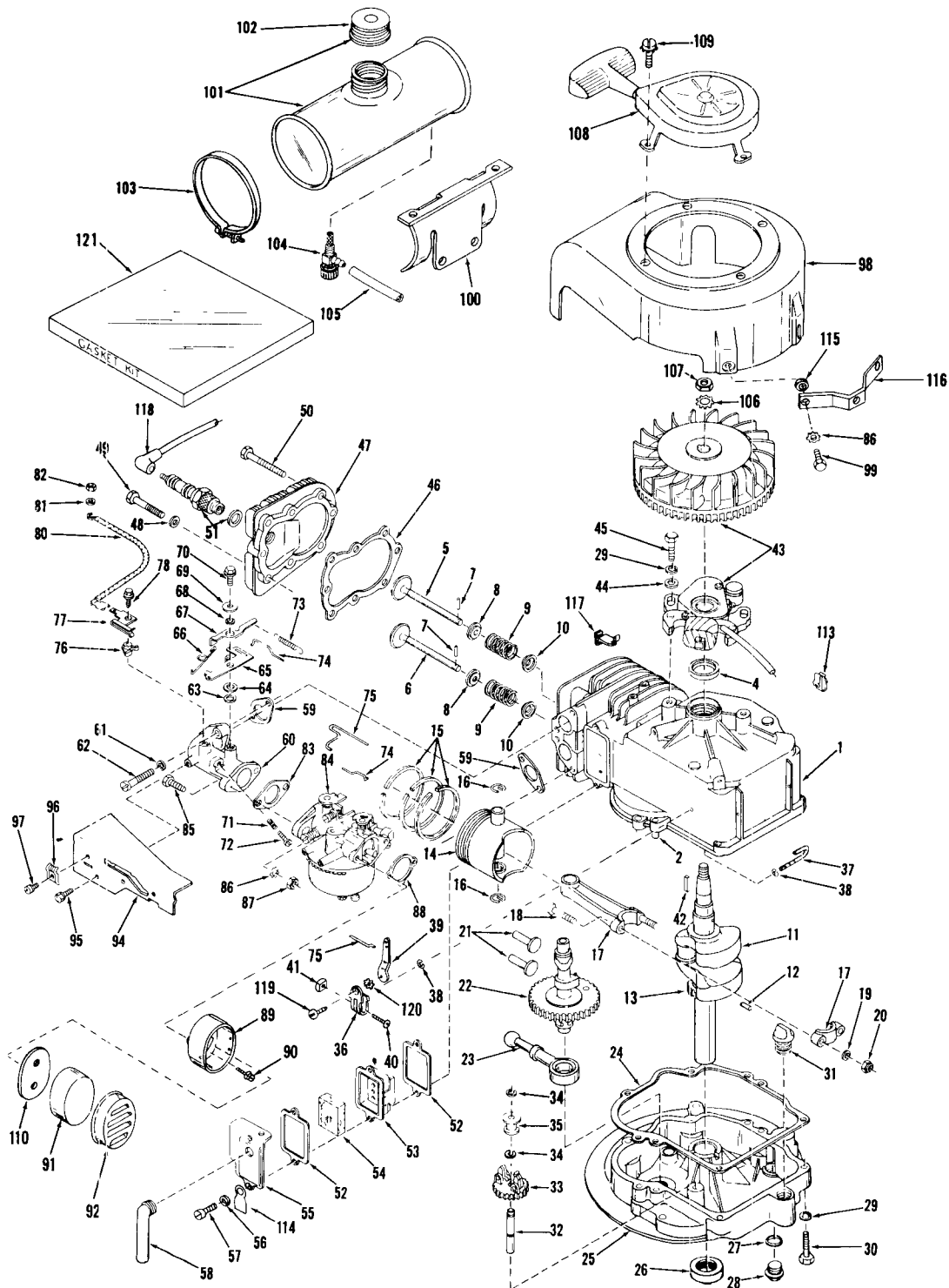
INSIST ON GENUINE TORO PARTS

## IMPORTANT ORDERING INSTRUCTIONS

Repair parts are available from your TORO distributor or service dealer. To insure getting correct parts without delay, please furnish the following information:

1. Serial number of your mower as shown on the name plate.
2. Part number, description and quantity of each part required.
3. State whether parts should be shipped by mail or express. All repair parts are shipped F.O.B. factory.
4. Name and address where parts are to be shipped.
5. Do not order by reference number; use part number only.

# ENGINE DRAWING RECOIL START - 221-188



Drawing No. 7554-4

# ENGINE PARTS LIST FOR 221-188

| Ref. No. | Part No. | Description                                            | No. Used | Ref. No. | Part No. | Description                                          | No. Used |
|----------|----------|--------------------------------------------------------|----------|----------|----------|------------------------------------------------------|----------|
| 1        | 29913    | Cylinder Assy. (Incl. #2 & 4)                          | 1        | 45       | 650216   | Screw, Hex Hd. Cap, $\frac{1}{4}$ -20x $\frac{3}{4}$ | 2        |
| 2        | 26727    | Pin, Dowel                                             | 2        | 46       | *29920   | Gasket, Cylinder Head                                | 1        |
| 4        | *29183   | Seal, Oil                                              | 1        | 47       | 29921    | Head, Cylinder                                       | 1        |
| 5        | 29314    | Valve, Intake                                          | 1        | 48       | 26073    | Washer, 5/16"                                        | 5        |
| 5        | 29316    | Valve, Intake(1/32" oversize)                          | 1        | 49       | 6021     | Screw, Hex Hd. Cap, 5/16-18x $\frac{1}{2}$           | 5        |
| 6        | 29313    | Valve, Exhaust                                         | 1        | 50       | 6023     | Screw, Hex Hd. Cap, 5/16-18x2                        | 3        |
| 6        | 29315    | Valve, Exhst.(1/32"oversize)                           | 1        | 51       | 21943    | Spark Plug (Champion J-8 or Equivalent)              | 1        |
| 7        | 20794    | Pin, Valve Spring Retaining                            | 2        | 52       | *27234   | Gasket, Valve Spring Cover                           | 2        |
| 8        | 26957    | Cap, Upper Valve Spring                                | 2        | 53       | 27810    | Body Assy., Breather                                 | 1        |
| 9        | 24772    | Spring, Valve                                          | 2        | 54       | 27233    | Element, Filter                                      | 1        |
| 10       | 21043    | Cap, Lower Valve Spring                                | 2        | 55       | 27626    | Cover, Valve Spring                                  | 1        |
| 11       | 29222    | Crankshaft Assy(Incl. #12&13)                          | 1        | 56       | 8269     | Lockwasher, Hvy. Split, #10                          | 2        |
| 12       | 29783    | Pin, Groove                                            | 1        | 57       | 28404    | Screw, Phil. Fil. Hd. Mach. 10-24 x 1/2              | 2        |
| 13       | 27613    | Gear, Crankshaft                                       | 1        | 58       | 27627    | Tube, Breather                                       | 1        |
| 14       | 27062    | Piston & Pin Assy. (Incl. 2 of Ref. #16)               | 1        | 59       | *26754   | Gasket, Intake & Exhaust                             | 2        |
| 14       | 27084    | Piston & Pin Assy. (010 O.S.) (Incl. Two #16)          | 1        | 60       | 29187    | Pipe, Intake                                         | 1        |
| 14       | 27085    | Piston & Pin Assy. (.020 O.S.) (Incl. Two #16)         | 1        | 61       | 27513    | Lockwasher, Split, 1/4"                              | 2        |
| 15       | 27565    | Ring Set                                               | 1        | 62       | 28725    | Screw, Phil. Fil. Hd. Mach. 1/4-20 x 7/8             | 2        |
| 15       | 27566    | Ring Set (.010 O.S.)                                   | 1        | 63       | 27830    | Flatwasher                                           | 1        |
| 15       | 27567    | Ring Set (.020 O.S.)                                   | 1        | 64       | 28558    | Washer, Spring Wave                                  | 1        |
| 16       | 20381    | Ring, Piston Pin Retaining                             | 2        | 65       | 29188    | Lever, Control                                       | 1        |
| 17       | 26743    | Rod Assy, Connecting (Incl. Nos. 18, 19 & 20)          | 1        | 66       | 29190    | Spring, Control Lever                                | 1        |
| 18       | 26706    | Bolt, Connecting Rod                                   | 2        | 67       | 29189    | Lever, R. P. M. Adj.                                 | 1        |
| 19       | 20747    | Washer, Connect. Rod Bolt                              | 2        | 68       | 28562    | Bushing, R. P. M. Adj. Lever                         | 1        |
| 20       | 27573    | Nut, Connecting Rod                                    | 2        | 69       | 28563    | Washer, Plain Flat                                   | 1        |
| 21       | 27241    | Lifter, Valve                                          | 2        | 70       | 28762    | Screw, Slotted Hex. Hd. 10-24 x 1/2                  | 1        |
| 22       | 27242    | Camshaft                                               | 1        | 71       | 28569    | Spring, Compression                                  | 1        |
| 23       | 29914    | Pump Assy. Oil                                         | 1        | 72       | 28379    | Screw, Fil. Hd. Mach. 8-32 x 5/8                     | 1        |
| 24       | *26750   | Gasket, Mounting Flange                                | 1        | 73       | 29199    | Spring, Extension                                    | 1        |
| 25       | 29925    | Flange Assembly, Mounting (Incl. Nos. 26, 27, 28 & 32) | 1        | 74       | 29206    | Link, Choke                                          | 1        |
| 26       | *26208   | Seal, Oil                                              | 1        | 75       | 29926    | Link, Throttle                                       | 1        |
| 27       | *28833   | Gasket, Drain Plug, 5/8" I. D.                         | 1        | 76       | 29209    | Washer, Insulating                                   | 1        |
| 27       | *30129   | Gasket, Drain Plug, 3/8" I. D.                         | 1        | 77       | 29210    | Terminal                                             | 1        |
| 28       | 27244    | Plug, Oil Drain, 5/8"- 18                              | 1        | 78       | 28762    | Screw, Hex Slotted Hd. 10-24 x 1/2                   | 1        |
| 28       | 30128    | Plug, Oil Drain, 3/8"- 18                              | 1        | 80       | 28602    | Wire Assembly, Ground                                | 1        |
| 29       | 8303     | Lockwasher, Split Hvy, $\frac{1}{4}$ "                 | 6        | 81       | 8263     | Lockwasher, Split #6 (Wico or Tecumseh Magneto)      | 1        |
| 30       | 650236   | Screw, Hex Hd. Cap, $\frac{1}{4}$ -20x $\frac{1}{4}$   | 6        | 81       | 8266     | Lockwasher, Split #8 (Phelon Magneto)                | 1        |
| 31       | 27625    | Plug, Oil Filler                                       | 1        | 82       | 7962     | Hex Nut, 6-32 (Wico or Tecumseh Magneto)             | 1        |
| 32       | 29194    | Shaft, Mechanical Governor                             | 1        | 82       | 7963     | Hex Nut, 8-32 (Phelon Magneto)                       | 1        |
| 33       | 30117    | Gear Assembly, Governor                                | 1        | 83       | *26756   | Gasket, Carburetor                                   | 1        |
| 34       | 29193    | Ring, Retaining                                        | 2        | 84       | 29237    | Carburetor                                           | 1        |
| 35       | 30116    | Spool                                                  | 1        | 85       | 6201     | Screw, Hex Hd. Cap 1/4-28 x 7/8                      | 2        |
| 36       | 29916    | Clamp, Governor Lever                                  | 1        | 86       | 27070    | Lockwasher, 1/4" E. T.                               | 2        |
| 37       | 29915    | Rod, Governor                                          | 1        | 87       | 8138     | Nut, Hex Jam, 1/4-28                                 | 2        |
| 38       | 29310    | Ring, Retaining                                        | 2        | 88       | *27272   | Gasket, Air Cleaner                                  | 1        |
| 39       | 29917    | Lever, Governor                                        | 1        | 89       | 29960    | Body, Air Cleaner                                    | 1        |
| 40       | 29826    | Screw, Socket Hd. Cap Screw 10 - 32 x 3/4              | 1        | 90       | 28753    | Screw, Phil. Fil. Hd. Mach. Sems. 8-32 x 1/2         | 2        |
| 41       | 29216    | Nut, Square, 10 - 32                                   | 1        |          |          |                                                      |          |
| 42       | 27247    | Key, Straight                                          | 1        |          |          |                                                      |          |
| 43       | 29162    | Magneto, Wico #FW-2617                                 | 1        |          |          |                                                      |          |
| 43       | 29172    | Magneto, Phelon #F-3220-G                              | 1        |          |          |                                                      |          |
| 43       | 29619    | Magneto, Tecumseh #5000                                | 1        |          |          |                                                      |          |
| 44       | 8345     | Flatwasher, 1/4"                                       | 2        |          |          |                                                      |          |

\*Not Illustrated

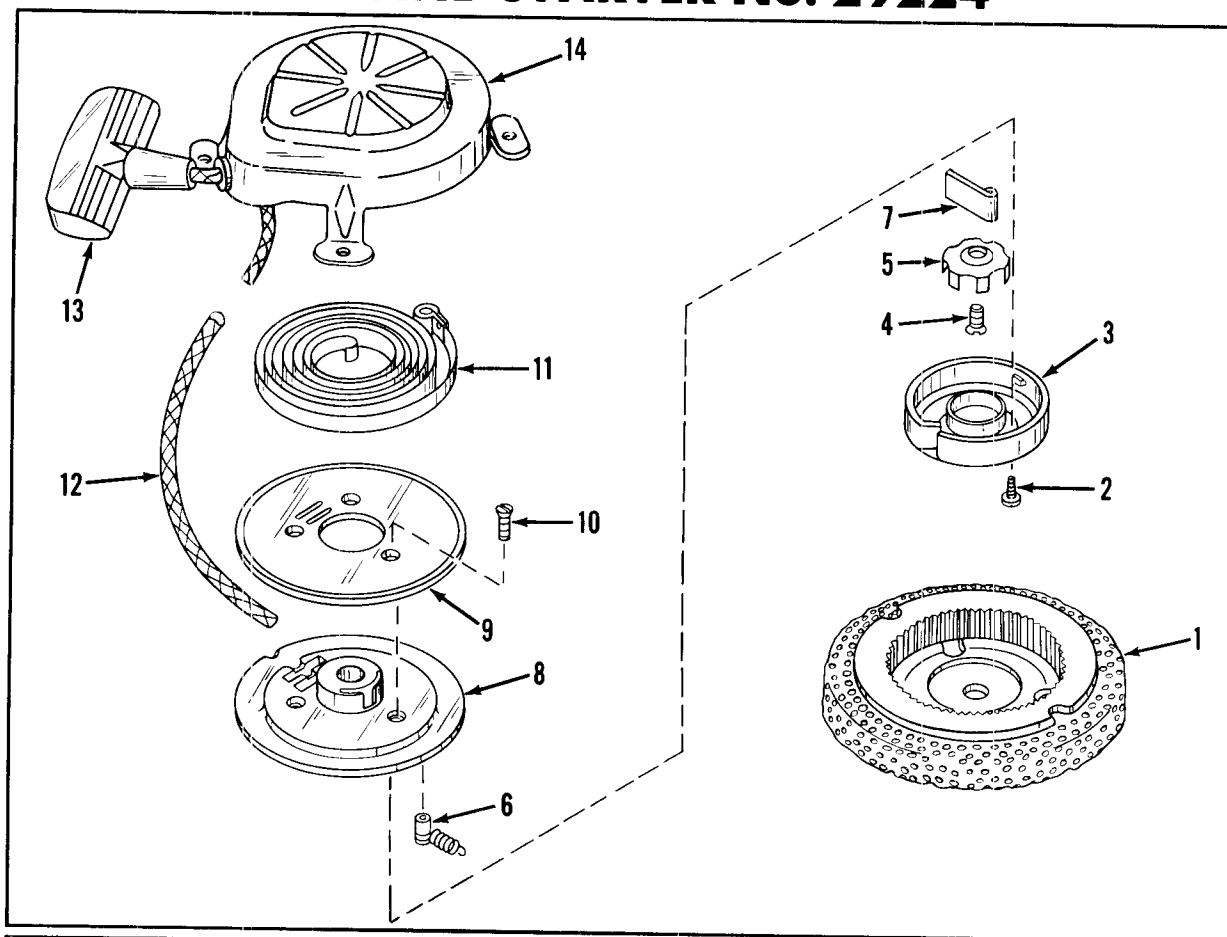
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## 221-188 PARTS LIST (Cont'd.)

| Ref. No. | Part No. | Description                                 | No. Used |
|----------|----------|---------------------------------------------|----------|
| 91       | 29961    | Filter, Air                                 | 1        |
| 92       | 29924    | Cover, Air Cleaner                          | 1        |
| 94       | 29930    | Cover, Speed Control                        | 1        |
| 95       | 28763    | Screw, Slotted Hex Washer Head 10-24 x 7/16 | 2        |
| 96       | 27793    | Clip, Conduit                               | 1        |
| 97       | 28942    | Screw, Slotted Hex Hd. Sems 10-32 x 3/8     | 1        |
| 98       | 29963    | Housing, Blower                             | 1        |
| 99       | 650240   | Screw, Hex Hd. Cap 1/4-20 x 5/8             | 2        |
| 100      | 3-1824   | Bracket, Fuel Tank Mounting                 | 1        |
| 101      | 29245    | Tank, Assy. Fuel (Incl. #102)               | 1        |
| 102      | 27799    | Cap, Fuel Filler                            | 1        |
| 103      | 29200    | Strap, Fuel Tank                            | 1        |
| 104      | 28571    | Strainer & Shut-off, Fuel                   | 1        |
| 105      | 29409    | Line, Fuel                                  | 1        |
| 106      | 29544    | Washer, Plain Flat                          | 1        |

| Ref. No. | Part No. | Description                                         | No. Used |
|----------|----------|-----------------------------------------------------|----------|
| 107      | 29201    | Nut, Flywheel                                       | 1        |
| 108      | 29224    | Starter Assembly, Rewind                            | 1        |
| 109      | 29716    | Screw, 1/4-28 x 7/16                                | 4        |
| 110      | 29962    | Screen Spacer                                       | 1        |
| 113      | 27275    | Clip, Lead Wire                                     | 1        |
| 114      | 550145   | Plate, Serial Number                                | 1        |
| 115      | 3-1034   | Washer, Plain Flat                                  | 2        |
| 116      | 3-2772   | Bracket, Shroud Mounting                            | 1        |
| 117      | 29406    | Clip, Fuel Line                                     | 1        |
| 118      | 610118   | Terminal, Spark Plug                                | 1        |
| 119      | 29919    | Screw, Pan Slotted Hd. Self Tap. 8-32 x 3/8 Type 23 | 1        |
| 120      | 29918    | Lockwasher, #8 E. T.                                | 1        |
| 121      | 29927    | Kit, Gasket (Incl. Items Mkd. *)                    | 1        |
| 122      | 29962    | Element Retainer                                    | 1        |

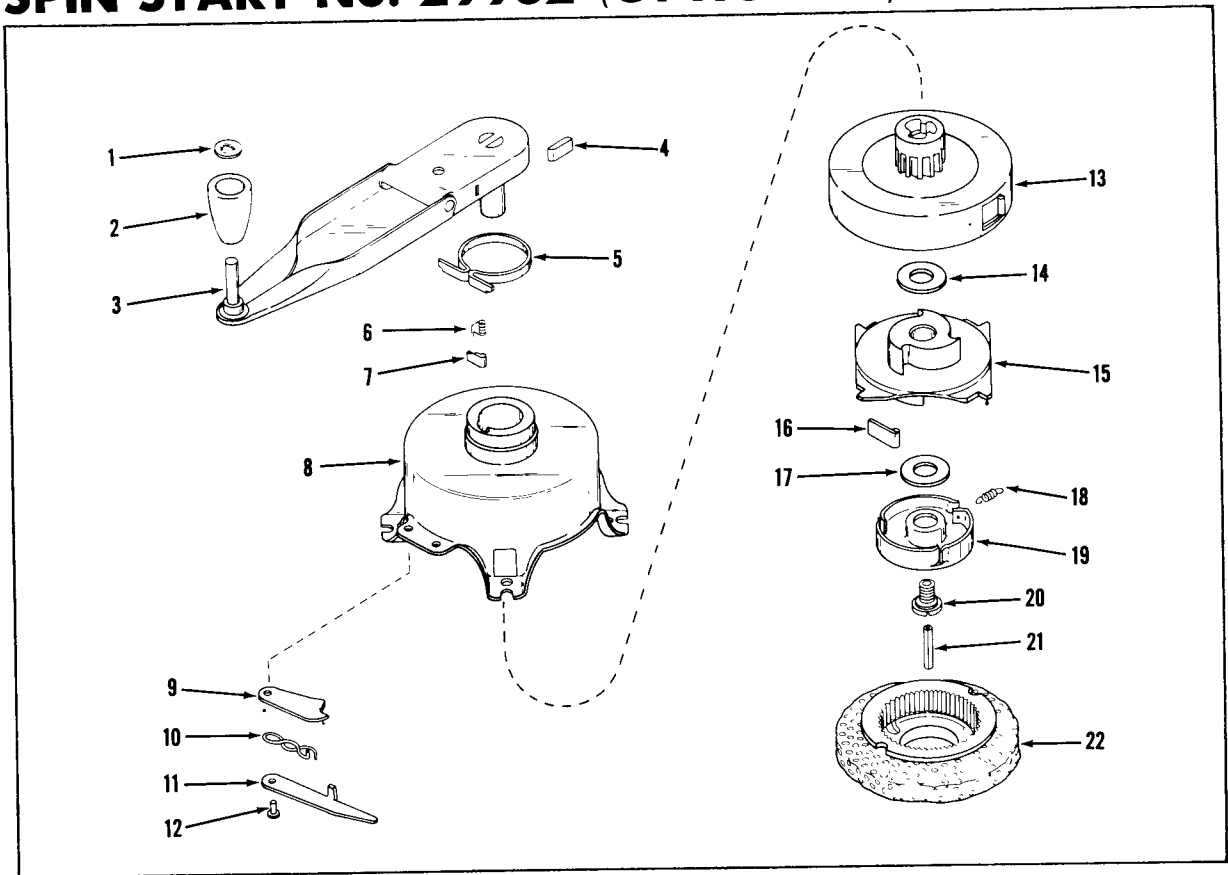
### REWIND STARTER No. 29224



| Ref. No. | Part No. | Description               | No. Used |
|----------|----------|---------------------------|----------|
| 1        | 29225    | Hub & Screen Assembly     | 1        |
| 2        | 590152   | Screw, S. T. #8-32 x 7/16 | 2        |
| 3        | 590153   | Retainer                  | 1        |
| 4        | 590150   | Screw, #10-32 Thread Lock | 1        |
| 5        | 590151   | Brake                     | 1        |
| 6        | 27515    | Bushing & Spring Assembly | 1        |
| 7        | 590148   | Dog, Starter              | 1        |
| 8        | 590272   | Hub, Starter              | 1        |

| Ref. No. | Part No. | Description                           | No. Used |
|----------|----------|---------------------------------------|----------|
| 9        | 590273   | Pulley, Sheave                        | 1        |
| 10       | 590275   | Screw, Flat Hd. S. T. No. 10-32 x 1/2 | 3        |
| 11       | 590156   | Spring, Rewind                        | 1        |
| 12       | 590274   | Rope                                  | 1        |
| 13       | 590288   | Handle                                | 1        |
| 14       | 590277   | Cover, Assembly, Housing              | 1        |

## SPIN START No. 29932 (OPTIONAL)

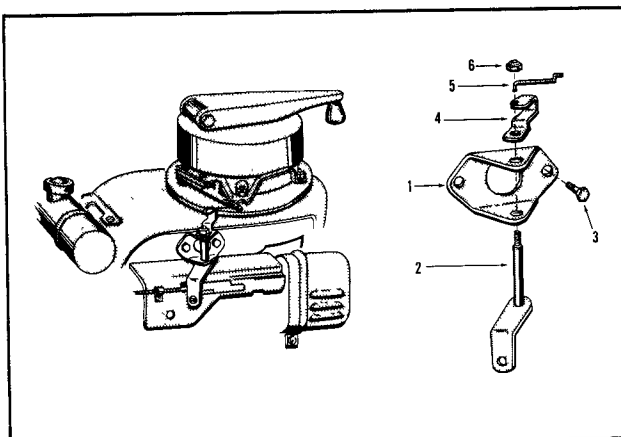


| Ref. No. | Part No. | Description            | No. Used |
|----------|----------|------------------------|----------|
| 1        | 29227    | Fastener, Handle       | 1        |
| 2        | 29228    | Knob, Starter Handle   | 1        |
| 3        | 29950    | Handle Assembly        | 1        |
| 4        | 29936    | Dog, Wind              | 1        |
| 5        | 29935    | Band, Brake            | 1        |
| 6        | 29938    | Spring, Lock Dog       | 1        |
| 7        | 29937    | Dog, Lock              | 1        |
| 8        | 29949    | Housing Assy., Starter | 1        |
| 9        | 29944    | Lever, Release         | 1        |
| 10       | 29943    | Spring, Release Lever  | 1        |
| 11       | 29945    | Lever, Trip            | 1        |

out →

| Ref. No. | Part No. | Description               | No. Used |
|----------|----------|---------------------------|----------|
| 12       | 29946    | Stud, Release Lever       | 1        |
| 13       | 29948    | Spring and Keeper         | 1        |
| 14       | 29941    | Washer, Bearing           | 1        |
| 15       | 29947    | Hub and Cover             | 1        |
| 16       | 590148   | Dog, Starter              | 3        |
| 17       | 29734    | Washer, Thrust            | 1        |
| 18       | 29940    | Spring, Retainer          | 1        |
| 19       | 29942    | Retainer                  | 1        |
| 20       | 29733    | Screw, Brake, (Left Hand) | 1        |
| 21       | 29736    | Pin, Centering            | 1        |
| 22       | 29939    | Hub & Screen              | 1        |

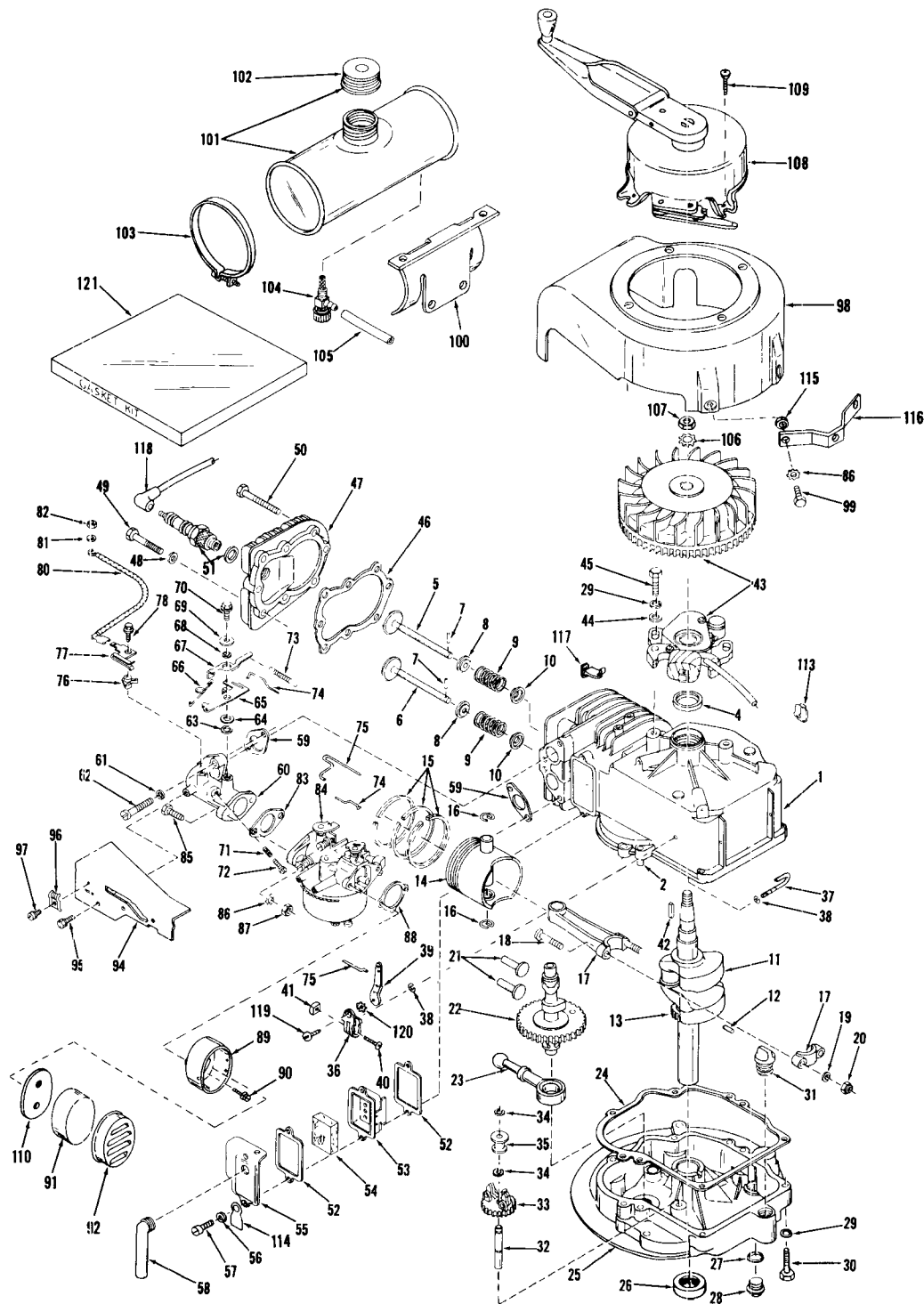
## REMOTE CONTROL LINKAGE



### PARTS LIST

| Ref. No. | Part No. | Description    | No. Used |
|----------|----------|----------------|----------|
| 1        | 3-2832   | Attach Bracket | 1        |
| 2        | 3-2860   | Lever Assembly | 1        |
| 3        | 32104-63 | Screw          | 2        |
| 4        | 3-2861   | Crank          | 1        |
| 5        | 3-2835   | Link           | 1        |
| 6        | 32127-40 | Nut            | 1        |

# ENGINE DRAWING SPINSTART - 221-189



Drawing No. 7554-8



# PARTS LIST FOR 221-189

| Ref. No. | Part No. | Description                                          | No. Used | Ref. No. | Part No. | Description                                     | No. Used |
|----------|----------|------------------------------------------------------|----------|----------|----------|-------------------------------------------------|----------|
| 1        | 29913    | Cylinder Assy.(Incl. #2 & 4)                         | 1        | 46       | *29920   | Gasket, Cylinder Head                           | 1        |
| 2        | 26727    | Pin, Dowel                                           | 2        | 47       | 29921    | Head, Cylinder                                  | 1        |
| 4        | *29183   | Seal, Oil                                            | 1        | 48       | 26073    | Washer, 5/16"                                   | 5        |
| 5        | 29314    | Valve, Intake                                        | 1        | 49       | 6021     | Screw, Hex Hd. Cap<br>5/16-18 x 1-1/2           | 5        |
| 5        | 29316    | Valve, Intake (1/32"O.S.)                            | 1        | 50       | 6023     | Screw, Hex Hd. Cap<br>5/16-18 x 2               | 3        |
| 6        | 29313    | Valve, Exhaust                                       | 1        | 51       | 21943    | Spark Plug (Champion J8<br>or Equivalent)       | 1        |
| 6        | 29315    | Valve, Exhaust (1/32"O.S.)                           | 1        | 52       | *27234   | Gasket, Valve Spring Cover                      | 2        |
| 7        | 20794    | Pin, Valve Spring Retaining                          | 2        | 53       | 27810    | Body Assembly, Breather                         | 1        |
| 8        | 26957    | Cap, Upper Valve Spring                              | 2        | 54       | 27233    | Element, Filter                                 | 1        |
| 9        | 24772    | Spring, Valve                                        | 2        | 55       | 27626    | Cover, Valve Spring                             | 1        |
| 10       | 21043    | Cap, Lower Valve Spring                              | 2        | 56       | 8269     | Lockwasher, Hvy. Split, #10                     | 2        |
| 11       | 29222    | Crankshaft Assy.(Incl. #12&13)                       | 1        | 57       | 28404    | Screw, Phil. Fil. Hd. Mach.<br>10-24 x 1/2      | 2        |
| 12       | 29783    | Pin, Groove                                          | 1        | 58       | 27627    | Tube, Breather                                  | 1        |
| 13       | 27613    | Gear, Crankshaft                                     | 1        | 59       | *26754   | Gasket Intake & Exhaust                         | 2        |
| 14       | 27062    | Piston & Pin Assy.(Incl. 2 #16)                      | 1        | 60       | 29187    | Pipe, Intake                                    | 1        |
| 14       | 27084    | Piston & Pin Assy.(.010 O.S.)<br>(Incl. Two #16)     | 1        | 61       | 27513    | Lockwasher, Split, 1/4"                         | 2        |
| 14       | 27085    | Piston & Pin Assy.(.020 O.S.)<br>(Incl. Two #16)     | 1        | 62       | 28725    | Screw, Phil. Fil. Hd. Mach.<br>1/4-20 x 7/8     | 2        |
| 15       | 27565    | Ring Set                                             | 1        | 63       | 27830    | Flatwasher                                      | 1        |
| 15       | 27566    | Ring Set (.010 O.S.)                                 | 1        | 64       | 28558    | Washer, Spring Wave                             | 1        |
| 15       | 27567    | Ring Set (.020 O.S.)                                 | 1        | 65       | 29188    | Lever, Control                                  | 1        |
| 16       | 20381    | Ring, Piston Pin Retaining                           | 2        | 66       | 29190    | Spring, Control Lever                           | 1        |
| 17       | 26743    | Rod Assy, Connecting<br>(Incl. #18, 19 & 20)         | 1        | 67       | 29189    | Lever, R. P. M. Adjusting                       | 1        |
| 18       | 26706    | Bolt, Connecting Rod                                 | 2        | 68       | 28562    | Bushing, R. P. M. Adj. Lever                    | 1        |
| 19       | 20747    | Washer, Connect. Rod Bolt                            | 2        | 69       | 28563    | Washer, Plain Flat                              | 1        |
| 20       | 27573    | Nut, Connecting Rod                                  | 2        | 70       | 28762    | Screw, Slotted Hex. Hd.<br>10-24 x 1/2          | 1        |
| 21       | 27241    | Lifter, Valve                                        | 2        | 71       | 28569    | Spring, Compression                             | 1        |
| 22       | 27242    | Camshaft                                             | 1        | 72       | 28379    | Screw, Fil. Hd. Mach.<br>8-32 x 5/8             | 1        |
| 23       | 29914    | Pump Assembly, Oil                                   | 1        | 73       | 29199    | Spring, Extension                               | 1        |
| 24       | *26750   | Gasket, Mounting Flange                              | 1        | 74       | 29206    | Link, Choke                                     | 1        |
| 25       | 29925    | Flange Assembly Mounting<br>(Incl. #26, 27, 28 & 32) | 1        | 75       | 29926    | Link, Throttle                                  | 1        |
| 26       | *26208   | Seal, Oil                                            | 1        | 76       | 29209    | Washer, Insulating                              | 1        |
| 27       | *28833   | Gasket, Drain Plug, 5/8" I. D.                       | 1        | 77       | 29210    | Terminal                                        | 1        |
| 27       | *30129   | Gasket, Drain Plug, 3/8" I. D.                       | 1        | 78       | 28762    | Screw, Hex Slotted Hd.<br>10-24 x 1/2           | 1        |
| 28       | 27244    | Plug, Oil Drain, 5/8"-18                             | 1        | 80       | 28602    | Wire Assembly, Ground                           | 1        |
| 28       | 30128    | Plug, Oil Drain, 3/8"-18                             | 1        | 81       | 8263     | Lockwasher, Split #6<br>(Wico or Tecumseh Mag.) | 1        |
| 29       | 8303     | Lockwasher, Split Hvy., 1/4"                         | 6        | 81       | 8266     | Lockwasher, Split #8<br>(Phelon Magneto)        | 1        |
| 30       | 650236   | Screw, Hex Hd. Cap, 1/4-20x1 1/4                     | 6        | 82       | 7962     | Hex Nut, 6-32 (Wico or<br>Tecumseh Magneto)     | 1        |
| 31       | 27625    | Plug, Oil Filler                                     | 1        | 82       | 7963     | Hex Nut, 8-32<br>(Phelon Magneto)               | 1        |
| 32       | 29194    | Shaft, Mechanical Governor                           | 1        | 83       | *26756   | Gasket, Carburetor                              | 1        |
| 33       | 30117    | Gear Assy. Governor                                  | 1        | 84       | 29237    | Carburetor                                      | 1        |
| 34       | 29193    | Ring, Retaining                                      | 2        | 85       | 6201     | Screw, Hex Hd. Cap<br>1/4-28 x 7/8              | 2        |
| 35       | 30116    | Spool                                                | 1        | 86       | 27070    | Lockwasher, 1/4" E. T.                          | 2        |
| 36       | 29916    | Clamp, Governor Lever                                | 1        | 87       | 8138     | Nut, Hex Jam 1/4-28                             | 2        |
| 37       | 29915    | Rod, Governor                                        | 1        | 88       | *27272   | Gasket, Air Cleaner                             | 1        |
| 38       | 29310    | Ring, Retaining                                      | 2        | 89       | 29960    | Body, Air Cleaner                               | 1        |
| 39       | 29917    | Lever, Governor                                      | 1        | 90       | 28753    | Screw, Phil. Fil. Hd. Mach.<br>Sems. 8-32 x 1/2 | 2        |
| 40       | 29826    | Screw, Socket Hd. Cap Screw<br>10-32 x 3/4           | 1        |          |          |                                                 |          |
| 41       | 29216    | Nut, Square, 10-32                                   | 1        |          |          |                                                 |          |
| 42       | 27247    | Key, Straight                                        | 1        |          |          |                                                 |          |
| 43       | 29162    | Magneto, Wico #FW-2617                               | 1        |          |          |                                                 |          |
| 43       | 29172    | Magneto, Phelon #F-3220-G                            | 1        |          |          |                                                 |          |
| 43       | 29619    | Magneto, Tecumseh #5000                              | 1        |          |          |                                                 |          |
| 44       | 8345     | Flatwasher, 1/4"                                     | 2        |          |          |                                                 |          |
| 45       | 650216   | Screw, Hex Hd. Cap, 1/4-20x3/4                       | 2        |          |          |                                                 |          |

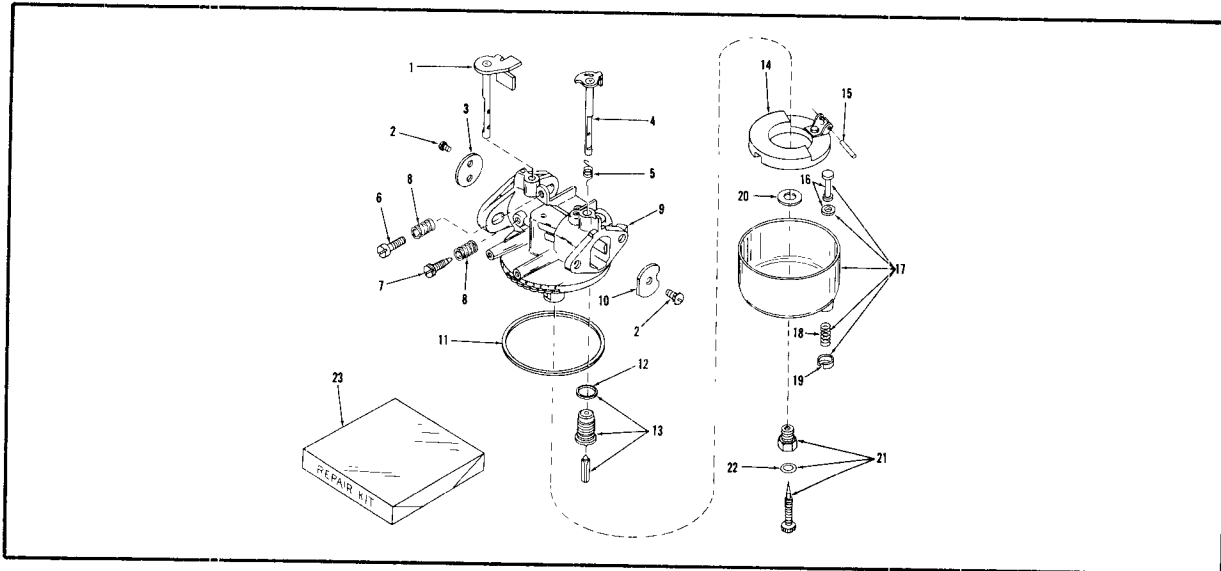
\*Not Illustrated

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## 221-189 PARTS LIST (Cont'd.)

| Ref. No. | Part No. | Description                                   | No. Used | Ref. No. | Part No. | Description                                            | No. Used |
|----------|----------|-----------------------------------------------|----------|----------|----------|--------------------------------------------------------|----------|
| 91       | 29961    | Filter, Air                                   | 1        | 105      | 29409    | Line, Fuel                                             | 1        |
| 92       | 29924    | Cover, Air Cleaner                            | 1        | 106      | 29544    | Washer, Plain Flat                                     | 1        |
| 94       | 29930    | Cover, Speed Control                          | 1        | 107      | 29201    | Nut, Flywheel                                          | 1        |
| 95       | 28763    | Screw, Slotted Hex Washer<br>Hd. 10-24 x 7/16 | 2        | 108      | 29932    | Starter Assy, Ratchet Imp.                             | 1        |
| 96       | 27793    | Clip, Conduit                                 | 1        | 109      | 29716    | Screw, 1/4-28 x 7/16                                   | 4        |
| 97       | 28942    | Screw, Slotted Hex Hd. Sems<br>10-32 x 3/8    | 1        | 110      | 29962    | Screen Spacer                                          | 1        |
| 98       | 29933    | Housing Blower                                | 1        | 113      | 27275    | Clip, Lead Wire                                        | 1        |
| 99       | 650240   | Screw, Hex Hd. Cap<br>1/4-20 x 5/8            | 2        | 114      | 550145   | Plate, Serial Number                                   | 1        |
| 100      | 3-1824   | Bracket, Fuel Tank Mount.                     | 1        | 115      | 3-1034   | Washer, Plain Flat                                     | 2        |
| 101      | 29245    | Tank, Assembly, Fuel<br>(Incl. #102)          | 1        | 116      | 3-2772   | Bracket, Shroud Mounting                               | 1        |
| 102      | 27799    | Cap, Fuel Filler                              | 1        | 117      | 29406    | Clip, Fuel Line                                        | 1        |
| 103      | 29200    | Strap, Fuel Tank                              | 1        | 118      | 610118   | Terminal, Spark Plug                                   | 1        |
| 104      | 28571    | Strainer & Shut-off, Fuel                     | 1        | 119      | 29919    | Screw, Pan Slotted Hd. Self<br>Tap, 8-32 x 3/8 Type 23 | 1        |
|          |          |                                               | 1        | 120      | 29918    | Lockwasher, No. 8 E. T.                                | 1        |
|          |          |                                               | 1        | 121      | 29927    | Kit, Gasket<br>(Incl. Items Marked *)                  | 1        |
|          |          |                                               | 1        | 122      | 29962    | Element Retainer                                       | 1        |

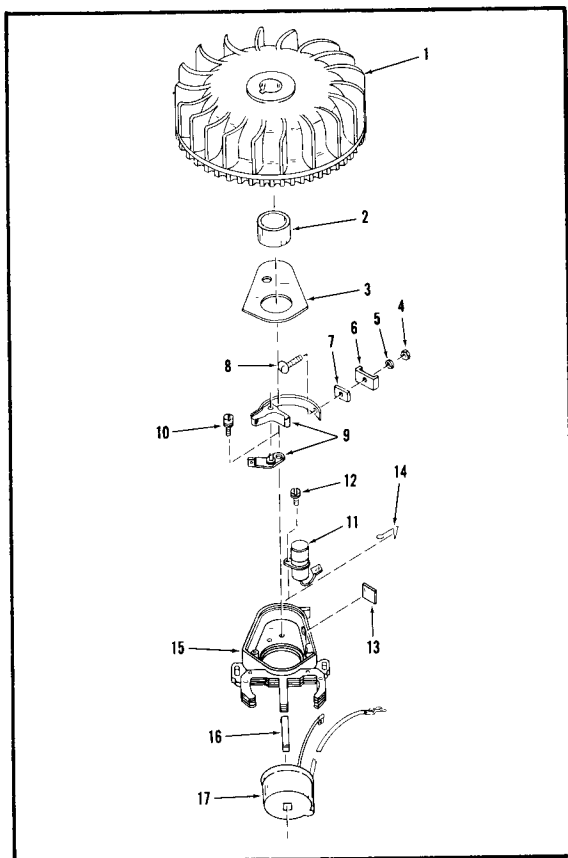
## CARBURETOR No. 29237



| Ref. No. | Part No. | Description                                | No. Used |
|----------|----------|--------------------------------------------|----------|
|          | 29237    | Carburetor, Walbro<br>LMG-134              |          |
| 1        | 29171    | Shaft Assy, Throttle                       | 1        |
| 2        | 630606   | Screw, Sems Pan Hd.<br>4-40 x 3/16         | 3        |
| 3        | 27553    | Valve, Throttle                            | 1        |
| 4        | 28637    | Shaft Assy, Choke                          | 1        |
| 5        | 27787    | Spring, Choke Shaft                        | 1        |
| 6        | 630605   | Screw, Throttle Adjust.<br>No. 10-32 x 5/8 | 1        |
| 7        | *27112   | Needle, Idle                               | 1        |
| 8        | 27114    | Spring, Throttle & Idle<br>Needle          | 2        |
| 9        | 29238    | Body Assy, Carburetor                      | 1        |
| 10       | 28924    | Valve, Choke                               | 1        |
| 11       | *27109   | Gasket, Body-to-Bowl                       | 1        |

| Ref. No. | No. Used | Description                           | Part No. |
|----------|----------|---------------------------------------|----------|
| 12       | 27108    | Gasket, Float Valve Seat              | 1        |
| 13       | *29154   | Valve, Seat & Gasket<br>Matched Float | 1        |
| 14       | 27105    | Float Assembly                        | 1        |
| 15       | *27106   | Shaft, Float                          | 1        |
| 16       | 27136    | Stem & Gasket Assembly<br>Bowl Drain  | 1        |
| 17       | 29170    | Bowl & Drain Assy, Fuel               | 1        |
| 18       | 27137    | Spring, Bowl Drain                    | 1        |
| 19       | 27138    | Retainer, Bowl Drain Stem             | 1        |
| 20       | *27110   | Gasket, Bowl-to-Body                  | 1        |
| 21       | *28945   | Needle Assy, Power Adj.               | 1        |
| 22       | *27544   | Ring, "O"                             | 1        |
| 23       | 29155    | Repair Kit (Incl. Items<br>Marked *)  | 1        |

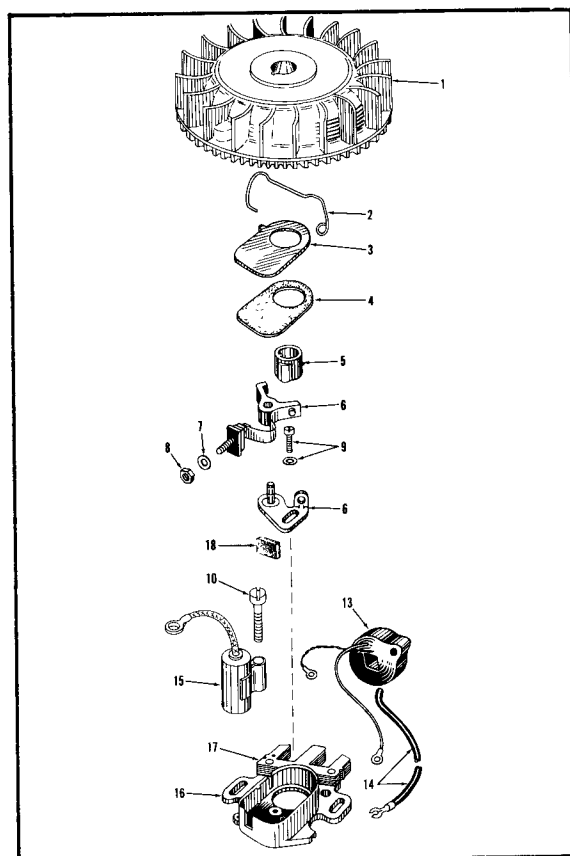
## MAGNETO No. 29162 (Wico FW-2617)



| Ref. No. | Part No. | Description             | No. Used |
|----------|----------|-------------------------|----------|
| 1        | 29165    | Flywheel                | 1        |
| 2        | 29166    | Cam, Breaker            | 1        |
| 3        | 29163    | Cover, Breaker Box      | 1        |
| 4        | 7962     | Nut, Hex No. 6-32       | 1        |
| 5        | 8263     | Lockwasher, Split No. 6 | 1        |
| 6        | 27523    | Insulator, Outside      | 1        |
| 7        | 27524    | Insulator, Inside       | 1        |
| 8        | 27525    | Stud, Connecting        | 1        |
| 9        | 27526    | Contact Assy, Breaker   | 1        |
| 10       | 25524    | Screw & Lockwasher      | 1        |
| 11       | 29164    | Condenser               | 1        |
| 12       | 610435   | Screw & Lockwasher      | 1        |
| 13       | 25525    | Felt, Cam Wiper         | 1        |
| 14       | 27529    | Spring, Cover           | 1        |
| 15       | 29167    | Plate, Stator           | 1        |
| 16       | 27528    | Spring, Coil Wedge      | 1        |
| 17       | 27531    | Coil & Lead Wires       | 1        |

## MAGNETO No. 29172 (Phelon F-3220G)

| Ref. No. | Part No. | Description                  | No. Used |
|----------|----------|------------------------------|----------|
| 1        | 29173    | Flywheel                     | 1        |
| 2        | 27959    | Spring, Breaker Box          | 1        |
| 3        | 29180    | Dust Cover                   | 1        |
| 4        | 29179    | Cover, Breaker Box Dust      | 1        |
| 5        | 29178    | Gasket, Breaker Box          | 1        |
| 6        | 610478   | Dust Cover                   | 1        |
| 7        | 610385   | Cam, Breaker                 | 1        |
| 8        | 610408   | Breaker Assembly             | 1        |
| 9        | 29181    | Washer, Terminal             | 1        |
| 10       | 610593   | Nut, Terminal                | 1        |
| 13       | 29176    | Screw & Washer Assy. Breaker | 1        |
| 14       | 27950    | Screw, Condenser Fast.       | 1        |
| 15       | 29177    | Coil Assembly                | 1        |
| 16       | 29175    | Wire Ignition Lead           | 1        |
| 17       | 29174    | Condenser                    | 1        |
| 18       | 27956    | Core & Plate Group           | 1        |
|          |          | Stator Assembly              | 1        |
|          |          | Felt, Cam Wiper              | 1        |



## SPECIFICATIONS

**ENGINE:** Toro TE-1-2000 Recoil start or TE-1-2001 Spin start

**ENGINE SHROUD:** Rigid Polyethylene

**FUEL TANK CAPACITY:** 1 quart

**CUTTER BLADE:** 18-7/8" long. Hardened high carbon steel. Positive attachment with one fastener.

**WHEELS:** Polyethylene with oil impregnated pwd. metal bearings.

**TIRES:** Front - Semi-pneumatic 6 x 1.50 Toro tread  
Rear - Semi-pneumatic 8 x 1.75 Toro tread

**HEIGHT OF CUT:** 1/2" to 3" by moving wheels with hand operated lever.

**WIDTH OF CUT:** 19"

**HOUSING:** Die cast aluminum alloy, spiral grass chamber, right hand discharge. Symmetrical wheel locations. Hinged chute deflector.

**HANDLE:** 3/4" O.D. x #16 ga. welded steel tubing in separable halves. Plastic tubing grips. No tool, positive handle height adjustment.

**THROTTLE CONTROL:** Control wire and casing. Operating lever mounted to upper handle. Stop, run, and choke positions. Spin Start engines are equipped with positive mechanical interlock between starter release and throttle control.

### **DIMENSIONS:**

|        |         |                              |
|--------|---------|------------------------------|
| Width  | 22 1/2" |                              |
| Length | 29"     | w/o handle, wheels at 1" cut |
| Height | 12-3/4" | (Recoil Start)               |
|        | 14-1/4" | (Spin Start)                 |

**WEIGHT:** 52 pounds

### **STANDARD EQUIPMENT:**

1. Bagging Kit with Grass Bag Assembly, Bagging Attachment and Bag Hanger.
2. Anti-scalp Dish

## Warranty

The Manufacturer warrants each new piece of equipment sold to be free of defects in material and workmanship. For ninety (90) days from the purchase date, Toro Manufacturing Corporation will repair or replace for the original purchaser, free of charge, through any Authorized Service Dealer, any part or parts found at our factory in Minneapolis, Minn., to be defective under normal use and service.

This Warranty does not obligate the Manufacturer to bear the cost of transportation charges in connection with the replacement or repair of

defective parts -- nor shall it apply to a machine upon which repairs or alterations have been made, unless authorized by the manufacturer.

This Warranty does not include nor cover standard accessories produced by other manufacturers. Such accessories have separate warranties by their respective manufacturers. . . . . and repair or exchange will be made on the basis of such warranties, and the policies authorized by them shall be adhered to.

This warranty is in lieu of all other warranties expressed or implied.