FORM NO. 3319–938

TORO®

## Z–Master

# 60” Side Discharge Cutting Unit

### Model No. 78478 – 890220 & Up

# Parts Catalog

## ORDERING REPLACEMENT PARTS

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

# Contents


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| Gear Box Assembly No. 94–4686 | 6 |
| **Note:** | |


# Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

| Abbreviation | Meaning |
|---|---|
| AR | as required |
| ASM | assembly |
| CARR | carriage |
| DEG | degrees |
| FH | flat head |
| GA | gauge |
| HF | hex flange |
| HFW | hex flange washer |
| HH | hex head |
| HHF | hex head flange |
| HHST | hex head self tapping |
| HJ | hex jam |
| HOC | height-of-cut |
| HS | hex socket |
| HSBH | hex socket button head |
| HSFH | hex socket flat head |
| HSH | hex socket head |
| HWH | hex washer head |
| HWHTF | hex washer head thread forming |
| INC | incorporated |
| LH | left hand |
| PH | pan head |
| PPH | Phillips pan head |
| PTO | power take off |
| RH | right hand |
| SFH | slotted fillister head |
| SH | square head |
| SHWH | slotted hex washer head |
| SPH | slotted pan head |
| STD | standard |
| TAP | self tapping |
| TH | truss head |
| TTH | Torx truss head |
| WH | wing head |

# Important Format Explanations

This catalog uses special formats to convey information in illustrations and parts lists. Specifically, one format is used in conjunction with service assemblies and another with quantities associated with reference numbers.

## Service Assemblies

Parts within service assemblies have reference numbers in the form *X:Y. X* is the reference number of the service assembly and *Y* is a sequential number unique to each part within the service assembly.

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

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

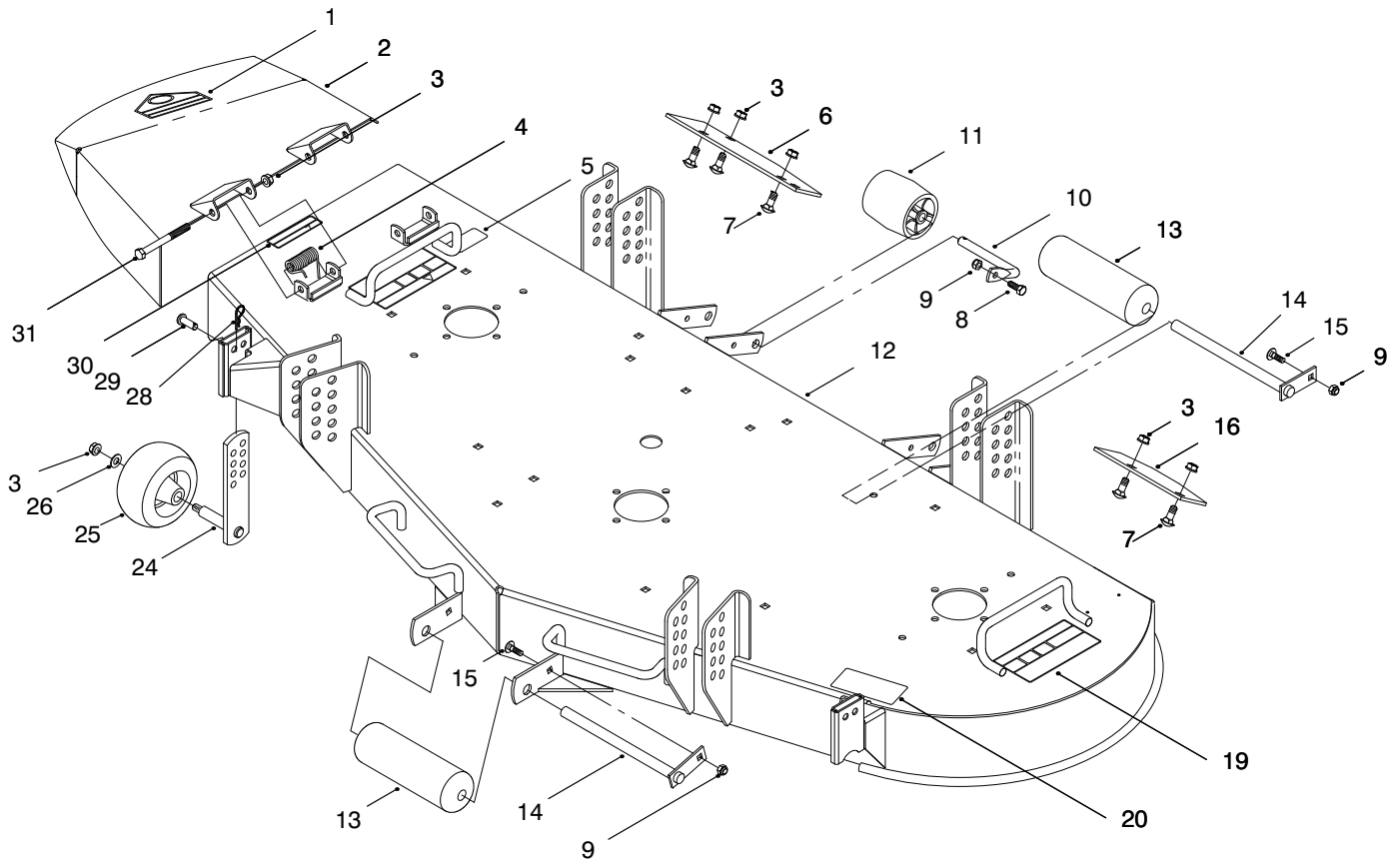
## Reference Numbers with Quantities

Illustrations may have a quantity in parentheses next to a reference number, in the form *X (Y). X* is the reference number. *Y* in parentheses is the quantity of the part identified by the reference number.

For example, the illustration callout 4 (2) indicates that two parts are used in that instance.



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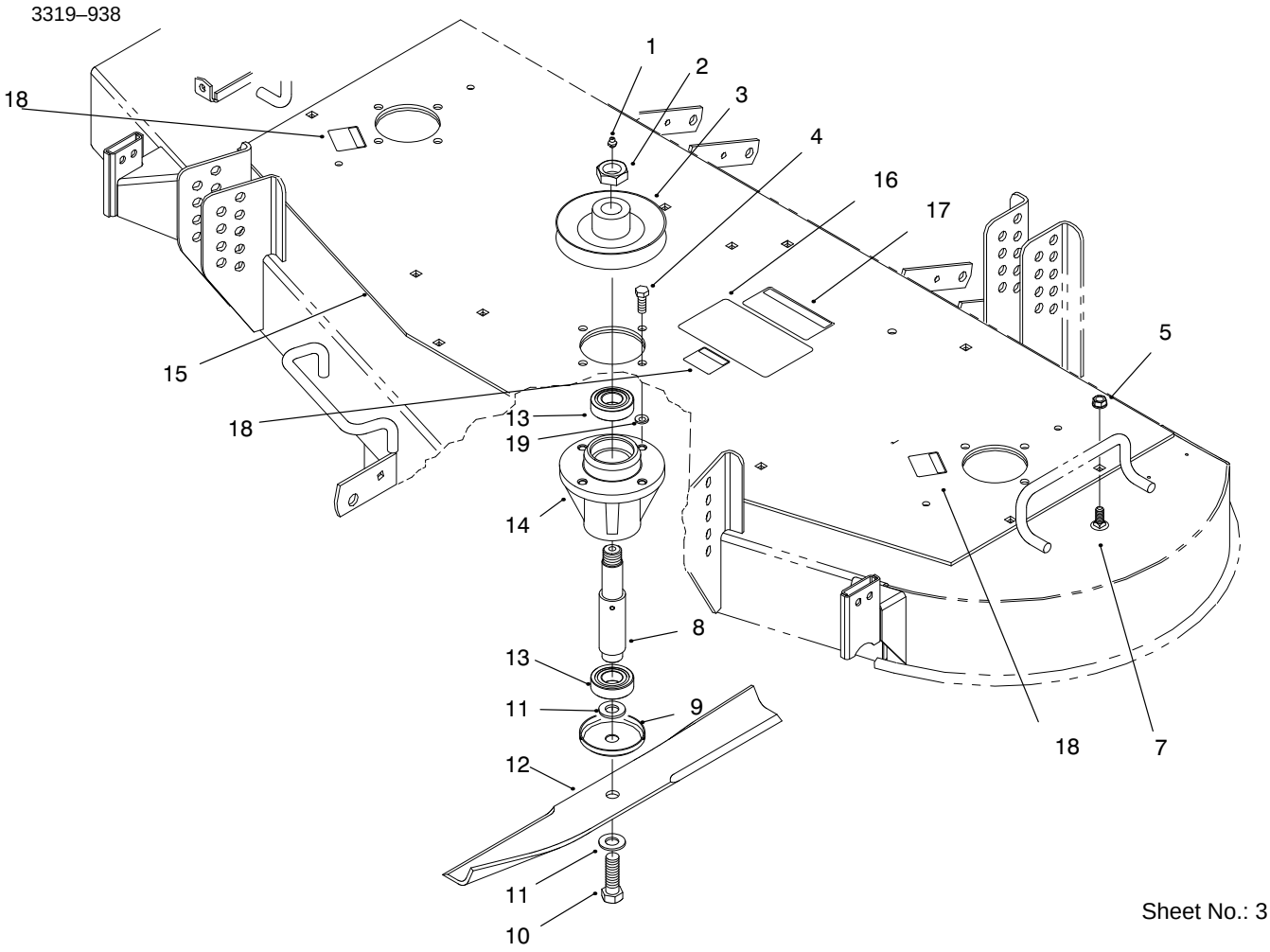



Sheet No.: 2

# Deck Asm & Decals

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93–1122 | 1 | Decal–Danger |
| 2 | 94–9588 | 1 | Chute–ASM |
| 2 | 94–9589 | 1 | Chute ASM w/Decals |
| 3 | 3296–39 | 9 | Nut–Lock |
| 4 | 40–6230 | 2 | Spring–Torsion |
| 5 | 88–1270 | 1 | Decal–Safety |
| 6 | 94–9510–01 | 1 | Plate–Wear RH |
| 7 | 3231–2 | 5 | Screw–CARR |
| 8 | 322–4 | 2 | Screw–HH |
| 9 | 3296–29 | 4 | Nut–Lock |
| 10 | 110847 | 2 | Shaft–Roller |
| 11 | 108798 | 2 | Roller |
| 12 | 98–4364 | 1 | 60” Deck/Decal ASM |
| 13 | 113349 | 2 | Roller–Anti Scalp |
| 14 | 113603 | 2 | Shaft–Roller |
| 15 | 3230–1 | 2 | Bolt–CARR |
| 16 | 79–1290–01 | 1 | Plate–Wear |
| 19 | 66–1340 | 2 | Decal–Discharge |
| 20 | 68–3380 | 1 | Decal–Wheel Adjustment |
| 24 | 68–2350 | 2 | Plate–Gage Wheel |
| 25 | 68–2730 | 2 | Wheel–Gage |
| 26 | 3256–24 | 2 | Washer–Flat |
| 28 | 3290–467 | 2 | Pin–Cotter |
| 29 | 283–2 | 2 | Pin–Clevis |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 30 | 66–6380 | 1 | Decal–Danger |
| 31 | 323–42 | 2 | Screw–HH |

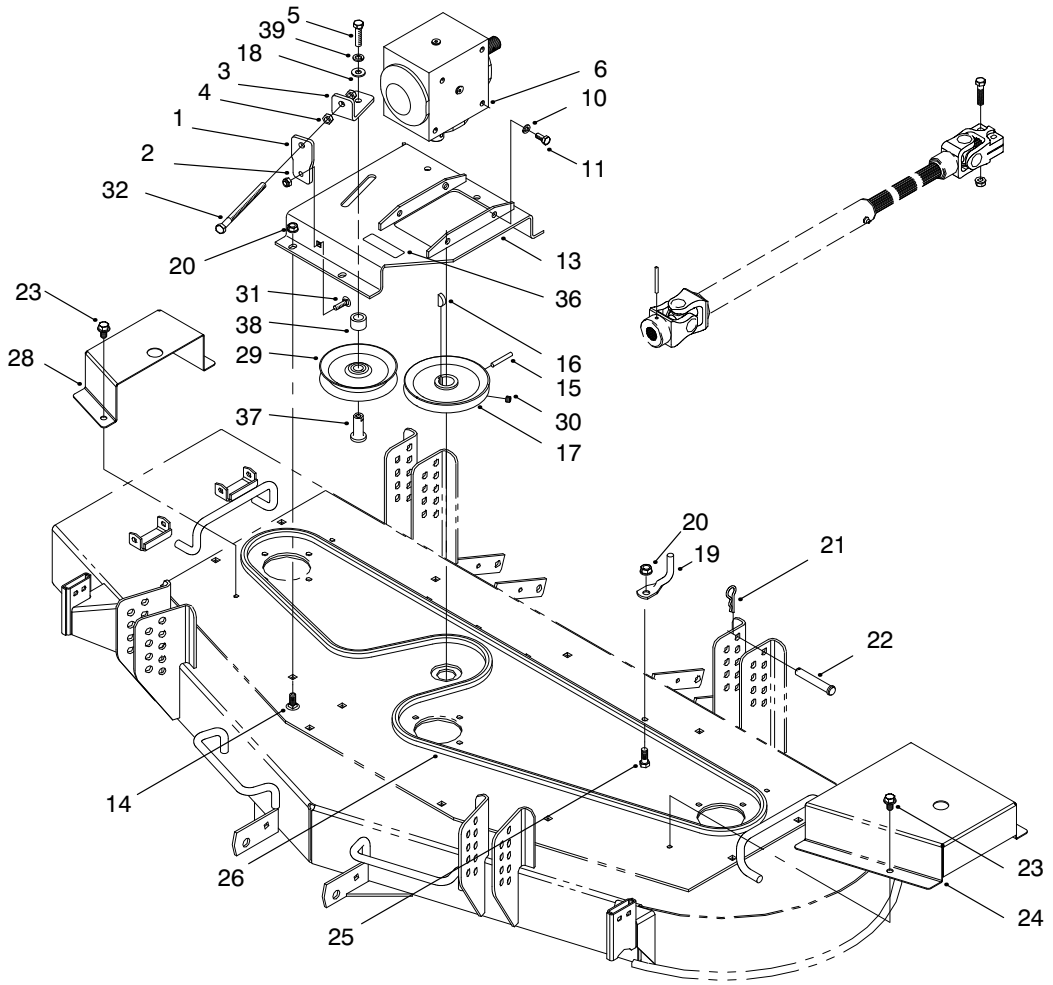



Sheet No.: 3

# Deck Plate, Spindles & Blade Asm

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 302–2 | 3 | Fitting–Grease |
| 2 | 3296–60 | 3 | Nut–Lock |
| 3 | 94–9534–03 | 3 | Pulley–Spindle |
| 4 | 3235–22 | 12 | Screw–HH |
| 5 | 3296–39 | 10 | Nut–Lock |
| 7 | 3231–2 | 10 | Screw–CARR |
| 8 | 94–2315 | 3 | Shaft–Spindle |
| 9 | 113512 | 3 | Cup–Spindle |
| 10 | 327–6 | 3 | Screw–HH |
| 11 | 920260 | 6 | Washer–Flat |
| 12 | 112947 | 3 | Blade |
| 13 | 113514 | 6 | Bearing–Ball |
| 14 | 94–2314 | 3 | Housing–Spindle |
| 15 | 98–4359 | 1 | Plate–Top |
| 15 | 98–4360 | 1 | Top Plate Decal ASM (Se) |
| 16 | 94–9547 | 1 | Decal–Belt Installation |
| 17 | 68–8340 | 1 | Decal–Torque |
| 18 | 88–8950 | 3 | Decal–Warning |
| 19 | 3256–24 | A/R | Washer–Flat |

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

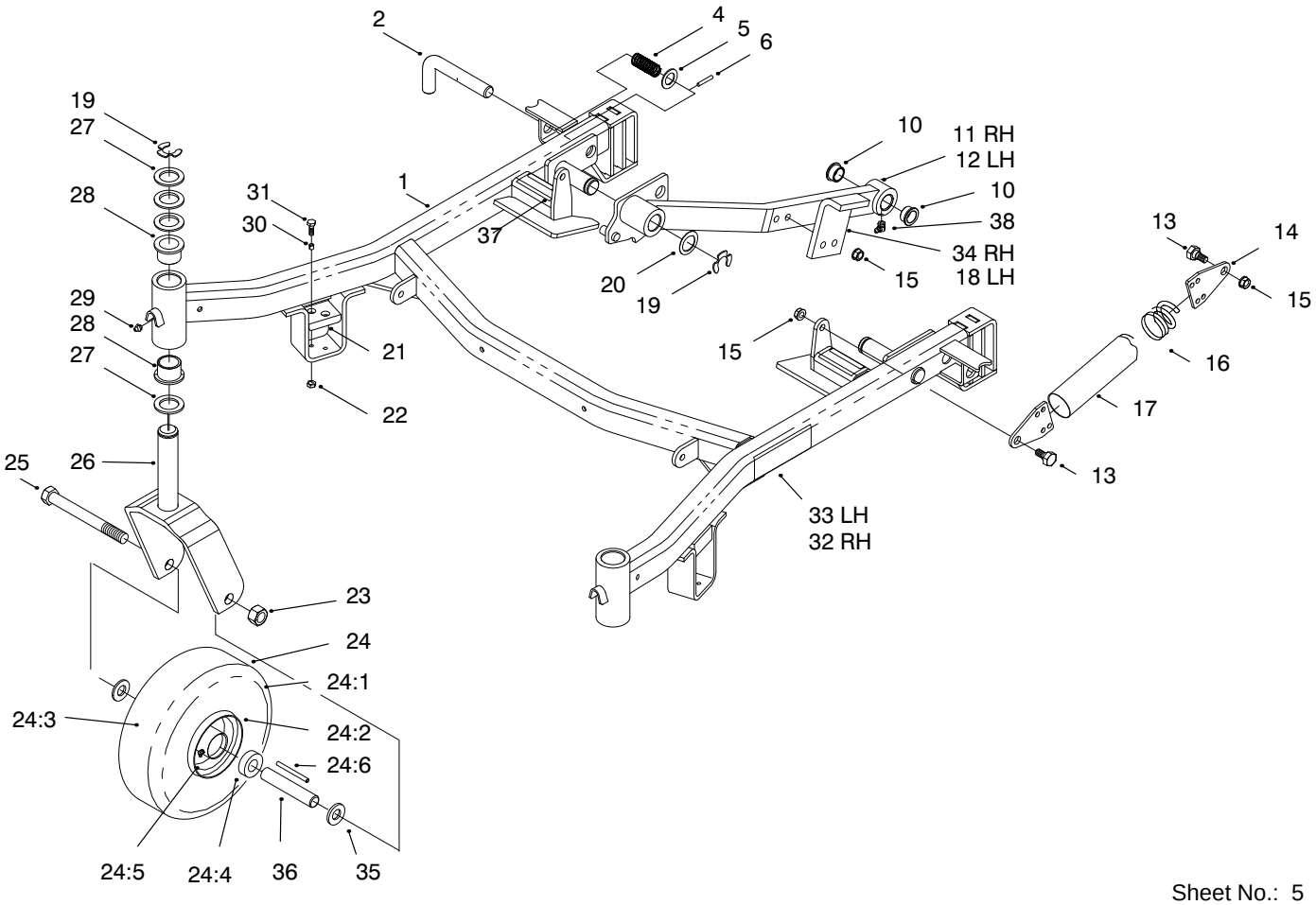



Sheet No.: 4

# Drive & Idler Asm

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94–4615 | 2 | Fork–Castor |
| 1 | 94–9570 | 1 | Plate–Tensioner |
| 2 | 3296–29 | 1 | Nut–Lock |
| 2 | 74–0240 | 2 | Shaft–Castor |
| 3 | 94–9351 | 1 | Bracket–Tensioner |
| 4 | 3217–7 | 2 | Nut–Lock |
| 5 | 323–43 | 1 | Screw |
| 6 | 94–4686 | 1 | Gearbox ASM |
| 10 | 3253–5 | 4 | Washer–Lock |
| 11 | 323–4 | 4 | Screw–HH |
| 13 | 98–4354 | 1 | Gearbox Plate ASM |
| 14 | 3231–2 | 5 | Screw–CARR |
| 15 | 32121–32 | 1 | Pin–Roll |
| 16 | 3257–14 | 1 | Key–Woodruff |
| 17 | 94–9535 | 1 | Pulley–Output |
| 18 | 3256–3 | 1 | Washer–Flat |
| 19 | 63–1690 | 1 | Guide–Belt |
| 20 | 3296–39 | 6 | Nut–Lock |
| 21 | 3290–355 | 4 | Pin–Hair |
| 22 | 283–55 | 4 | Pin–Clevis |
| 23 | 32144–69 | 4 | Screw–Tapping |
| 24 | 94–9512 | 1 | Cover–Deck LH |
| 25 | 323–6 | 1 | Screw–HH |
| 26 | 94–9530 | 1 | V–Belt |
| 28 | 94–9513 | 1 | Cover–Deck RH |
| 29 | 63–1540 | 1 | Pulley–Idler |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 30 | 3247–2 | 2 | Screw–Set |
| 31 | 3230–10 | 1 | Bolt–CARR |
| 32 | 94–9549 | 1 | Screw–HH |
| 36 | 70–2560 | 1 | Decal–Lube |
| 37 | 94–9492 | 1 | Stud–Idler Pulley |
| 38 | 94–9569 | 1 | Spacer |
| 39 | 3253–5 | 1 | Washer–Lock |

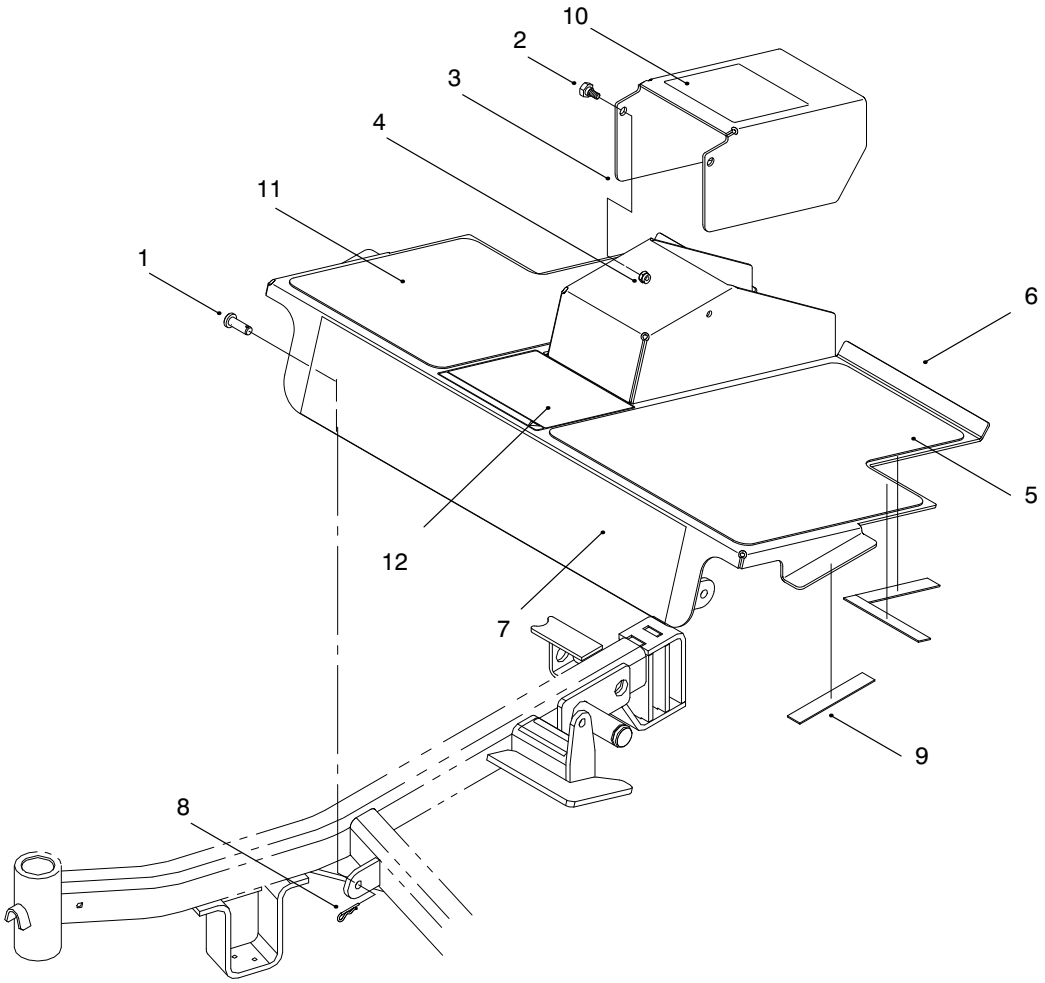



Sheet No.: 5

# Carrier Frame Asm

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94–9472–01 | 1 | Carrier Frame ASM |
| 2 | 98–1337 | 2 | Pin–Pivot |
| 4 | 98–1339 | 2 | Spring–Compression |
| 5 | 9202254 | 2 | Washer–Flat |
| 6 | 32121–79 | 2 | Roll Pin |
| 7 | 323–9 | 4 | Screw–HH |
| 10 | 27–9080 | 4 | Bushing |
| 11 | 98–7323 | 1 | RH Push Arm ASM |
| 12 | 98–7322 | 1 | LH Push Arm ASM |
| 13 | 46–3380 | 4 | Bolt–Shoulder |
| 14 | 94–4750 | 4 | Plate–End |
| 15 | 3296–39 | 8 | Nut–Lock |
| 16 | 94–4664 | 2 | Spring–Extension |
| 17 | 94–9550 | 2 | Cover–Spring |
| 18 | 94–9511 | 1 | Stop–Pusharm |
| 19 | 32151–91 | 4 | Ring–Retaining |
| 20 | 9202514 | 2 | Washer–Flat |
| 21 | 92–5417 | 2 | Pad–Rubber Front |
| 22 | 3296–2 | 4 | Nut Lock |
| 23 | 3217–11 | 2 | Nut |
| 24 | 98–1312 | 2 | Wheel–Pneumatic |
| 24:1 | 93–4243 | 2 | Tire 10” |
| 24:2 | 95–1974 | 2 | Rim/Hub ASM |
| 24:3 | 98–1311 | 2 | Tube–w/Valve |
| 24:4 | 62–5580 | 2 | Bearing–Outside |
| 24:5 | 302–40 | 2 | Fitting–Grease |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 24:6 | 83–4740 | 2 | Bearing–Roller |
| 25 | 327–24 | 2 | Screw–Hex |
| 26 | 94–4633–01 | 2 | Fork–Castor |
| 27 | 3–6781 | 8 | Washer–Thrust |
| 28 | 94–1291 | 4 | Bushing–Special |
| 29 | 302–5 | 2 | Fitting–Grease |
| 30 | 40–9520 | 4 | Spacer–Split |
| 31 | 32122–44 | 4 | Screw |
| 32 | 94–9585 | 1 | Decal–HOC RH |
| 33 | 94–9586 | 1 | Decal–HOC |
| 34 | 94–9583 | 1 | Stop–Pusharm |
| 35 | 3256–27 | 4 | Washer–Flat |
| 36 | 98–1310 | 2 | Spanner |
| 37 | 55–4300 | 2 | Decal–Warning |
| 38 | 302–60 | 2 | Fitting–Lube 90 |

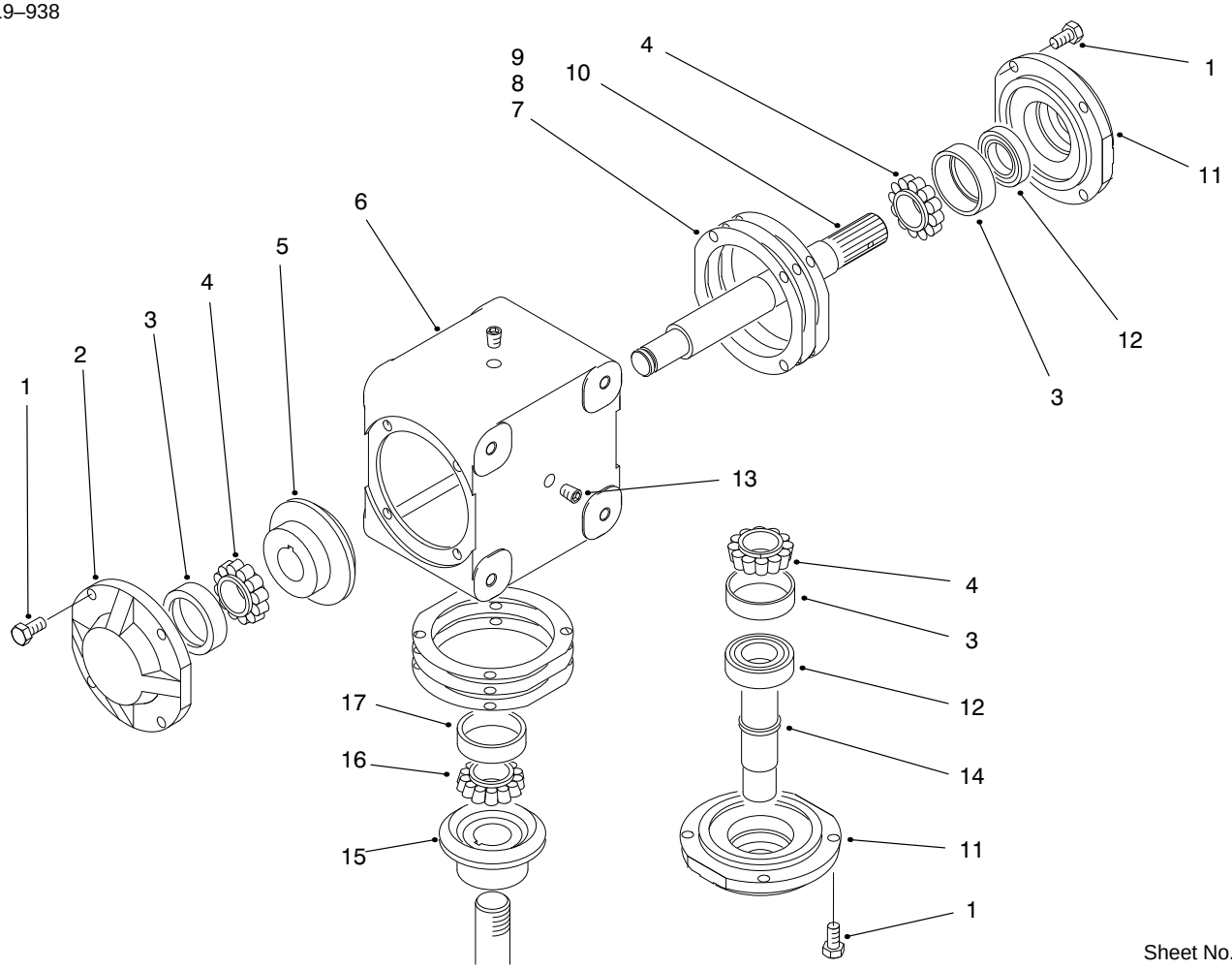



Sheet No.: 6

# Footrest Asm

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 283–2 | 2 | Pin–Clevis |
| 2 | 63–3410 | 2 | Bolt–Shoulder |
| 3 | 94–9542–01 | 1 | Cover–Driveshaft |
| 3 | 95–1975 | 1 | Cover/Decal ASM |
| 4 | 3296–16 | 2 | Nut–Lock |
| 5 | 98–1303 | 1 | Pad–Footrest |
| 6 | 94–9576 | 1 | Footrest/Decal ASM |
| 7 | 95–6400 | 1 | Decal–Toro |
| 8 | 3290–307 | 2 | Pin–Cotter |
| 9 | 94–9566 | 6 | Pad–Footrest |
| 10 | 98–1305 | 1 | Decal–Danger & Warning |
| 11 | 98–1302 | 1 | Pad–Footrest |
| 12 | 98–1304 | 1 | Decal–Danger |

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




Sheet No.: 100

# Gear Box Assembly No. 94–4686

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 98–1341 | 12 | Screw |
| 2 | 98–1342 | 1 | Cap |
| 3 | 62–3340 | 3 | Bearing Cup |
| 4 | 98–1343 | 3 | Bearing–Cone |
| 5 | 98–1348 | 1 | Gear LH |
| 6 | 98–1340 | 1 | Housing |
| 7 | 62–3220 | A/R | Gasket .015 |
| 8 | 62–3430 | A/R | Gasket (.005) |
| 9 | 62–3440 | A/R | Gasket (.003) |
| 10 | 98–1347 | 1 | Shaft |
| 11 | 98–1346 | 2 | Cap |
| 12 | 62–3400 | 2 | Seal |
| 13 | 62–3490 | 3 | Pipe Plug (Solid) |
| 14 | 98–1345 | 1 | Shaft |
| 15 | 98–1344 | 1 | Gear RH |
| 16 | 62–3370 | 1 | Bearing Cone |
| 17 | 62–3360 | 1 | Bearing Cup |

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

# Toro Part Number Index

| Part No. | Page No. | Ref. No. | Qty. | Description |
|---|---|---|---|---|
| 108798 | 1 | 11 | 2 | Roller |
| 110847 | 1 | 10 | 2 | Shaft–Roller |
| 112947 | 2 | 12 | 3 | Blade |
| 113349 | 1 | 13 | 2 | Roller–Anti Scalp |
| 113512 | 2 | 9 | 3 | Cup–Spindle |
| 113514 | 2 | 13 | 6 | Bearing–Ball |
| 113603 | 1 | 14 | 2 | Shaft–Roller |
| 920260 | 2 | 11 | 6 | Washer–Flat |
| 9202254 | 4 | 5 | 2 | Washer–Flat |
| 9202514 | 4 | 20 | 2 | Washer–Flat |
| 3–6781 | 4 | 27 | 8 | Washer–Thrust |
| 27–9080 | 4 | 10 | 4 | Bushing |
| 40–6230 | 1 | 4 | 2 | Spring–Torsion |
| 40–9520 | 4 | 30 | 4 | Spacer–Split |
| 46–3380 | 4 | 13 | 4 | Bolt–Shoulder |
| 55–4300 | 4 | 37 | 2 | Decal–Warning |
| 62–3220 | 6 | 7 | A/R | Gasket .015 |
| 62–3340 | 6 | 3 | 3 | Bearing Cup |
| 62–3360 | 6 | 17 | 1 | Bearing Cup |
| 62–3370 | 6 | 16 | 1 | Bearing Cone |
| 62–3400 | 6 | 12 | 2 | Seal |
| 62–3430 | 6 | 8 | A/R | Gasket (.005) |
| 62–3440 | 6 | 9 | A/R | Gasket (.003) |
| 62–3490 | 6 | 13 | 3 | Pipe Plug (Solid) |
| 62–5580 | 4 | 24:4 | 2 | Bearing–Outside |
| 63–1540 | 3 | 29 | 1 | Pulley–Idler |
| 63–1690 | 3 | 19 | 1 | Guide–Belt |
| 63–3410 | 5 | 2 | 2 | Bolt–Shoulder |
| 66–1340 | 1 | 19 | 2 | Decal–Discharge |
| 66–6380 | 1 | 30 | 1 | Decal–Danger |
| 68–2350 | 1 | 24 | 2 | Plate–Gage Wheel |
| 68–2730 | 1 | 25 | 2 | Wheel–Gage |
| 68–3380 | 1 | 20 | 1 | Decal–Wheel Adjustment |
| 68–8340 | 2 | 17 | 1 | Decal–Torque |
| 70–2560 | 3 | 36 | 1 | Decal–Lube |
| 74–0240 | 3 | 2 | 2 | Shaft–Castor |
| 79–1290–01 | 1 | 16 | 1 | Plate–Wear |
| 83–4740 | 4 | 24:6 | 2 | Bearing–Roller |
| 88–8950 | 2 | 18 | 3 | Decal–Warning |
| 92–5417 | 4 | 21 | 2 | Pad–Rubber Front |
| 93–1122 | 1 | 1 | 1 | Decal–Danger |
| 93–4243 | 4 | 24:1 | 2 | Tire 10” |
| 94–1291 | 4 | 28 | 4 | Bushing–Special |
| 94–2314 | 2 | 14 | 3 | Housing–Spindle |
| 94–2315 | 2 | 8 | 3 | Shaft–Spindle |
| 94–4615 | 3 | 1 | 2 | Fork–Castor |
| 94–4633–01 | 4 | 26 | 2 | Fork–Castor |
| 94–4664 | 4 | 16 | 2 | Spring–Extension |
| 94–4686 | 3 | 6 | 1 | Gearbox ASM |
| 94–4750 | 4 | 14 | 4 | Plate–End |
| 94–9351 | 3 | 3 | 1 | Bracket–Tensioner |
| 94–9472–01 | 4 | 1 | 1 | Carrier Frame ASM |
| 94–9492 | 3 | 37 | 1 | Stud–Idler Pulley |
| 94–9510–01 | 1 | 6 | 1 | Plate–Wear RH |
| 94–9511 | 4 | 18 | 1 | Stop–Push Arm |
| 94–9512 | 3 | 24 | 1 | Cover–Deck LH |
| 94–9513 | 3 | 28 | 1 | Cover–Deck RH |
| 94–9530 | 3 | 26 | 1 | V–Belt |
| 94–9534–03 | 2 | 3 | 3 | Pulley–Spindle |
| 94–9535 | 3 | 17 | 1 | Pulley–Output |
| 94–9542–01 | 5 | 3 | 1 | Cover–Driveshaft |
| 94–9547 | 2 | 16 | 1 | Decal–Belt Installation |

*Not Illustrated

# Toro Part Number Index (cont.)

| Part No. | Page No. | Ref. No. | Qty. | Description |
|---|---|---|---|---|
| 94−9549 | 3 | 32 | 1 | Screw−HH .375−16x4.5 |
| 94−9550 | 4 | 17 | 2 | Cover−Spring |
| 94−9566 | 5 | 9 | 6 | Pad−Footrest |
| 94−9569 | 3 | 38 | 1 | Spacer |
| 94−9570 | 3 | 1 | 1 | Plate−Tensioner |
| 94−9576 | 5 | 6 | 1 | Footrest/Decal ASM |
| 94−9583 | 4 | 34 | 1 | Stop−Push Arm |
| 94−9585 | 4 | 32 | 1 | Decal−HOC RH |
| 94−9586 | 4 | 33 | 1 | Decal−HOC |
| 94−9588 | 1 | 2 | 1 | Chute−ASM |
| 94−9589 | 1 | 2 | 1 | Chute ASM w/Decals |
| 95−1974 | 4 | 24:2 | 2 | Rim/Hub ASM |
| 95−1975 | 5 | 3 | 1 | Cover/Decal ASM |
| 95−6400 | 5 | 7 | 1 | Decal−Toro |
| 98−1302 | 5 | 11 | 1 | Pad−Footrest |
| 98−1303 | 5 | 5 | 1 | Pad−Footrest |
| 98−1304 | 5 | 12 | 1 | Decal−Danger |
| 98−1305 | 5 | 10 | 1 | Decal−Danger & Warning |
| 98−1310 | 4 | 36 | 2 | Spanner |
| 98−1311 | 4 | 24:3 | 2 | Tube−w/Valve |
| 98−1312 | 4 | 24 | 2 | Wheel−Pneumatic |
| 98−1337 | 4 | 2 | 2 | Pin−Pivot |
| 98−1339 | 4 | 4 | 2 | Spring−Compression |
| 98−1340 | 6 | 6 | 1 | Housing |
| 98−1341 | 6 | 1 | 12 | Screw |
| 98−1342 | 6 | 2 | 1 | Cap |
| 98−1343 | 6 | 4 | 3 | Bearing−Cone |
| 98−1344 | 6 | 15 | 1 | Gear RH |
| 98−1345 | 6 | 14 | 1 | Shaft |
| 98−1346 | 6 | 11 | 2 | Cap |
| 98−1347 | 6 | 10 | 1 | Shaft |
| 98−1348 | 6 | 5 | 1 | Gear LH |
| 98−4354 | 3 | 13 | 1 | Gearbox Plate ASM |
| 98−4356 | 1 | 12 | 1 | 60” Deck ASM |
| 98−4359 | 2 | 15 | 1 | Plate−Top |
| 98−4360 | 2 | 15 | 1 | Top Plate Decal ASM (Se) |
| 98−4364 | 1 | 12 | 1 | 60” Deck/Decal ASM |
| 98−7322 | 4 | 12 | 1 | LH Push Arm ASM |
| 98−7323 | 4 | 11 | 1 | RH Push Arm ASM |
| 283−2 | 1 | 29 | 2 | Pin−Clevis |
| 283−2 | 5 | 1 | 2 | Pin−Clevis |
| 283−55 | 3 | 22 | 4 | Pin−Clevis |
| 302−2 | 2 | 1 | 3 | Fitting−Grease |
| 302−5 | 4 | 29 | 2 | Fitting−Grease |
| 302−40 | 4 | 24:5 | 2 | Fitting−Grease |
| 302−60 | 2 | 23 | 4 | Fitting−Lube 90 |
| 302−60 | 4 | 38 | 2 | Fitting−Lube 90 |
| 322−4 | 1 | 8 | 2 | Screw−HH |
| 323−4 | 3 | 11 | 4 | Screw−HH |
| 323−6 | 3 | 25 | 1 | Screw−HH |
| 323−9 | 4 | 7 | 4 | Screw−HH |
| 323−42 | 1 | 31 | 2 | Screw−HH |
| 323−43 | 3 | 5 | 1 | Screw |
| 327−6 | 2 | 10 | 3 | Screw−HH |
| 327−24 | 4 | 25 | 2 | Screw−Hex |
| 3217−7 | 3 | 4 | 2 | Nut−Lock |
| 3217−11 | 4 | 23 | 2 | Nut |
| 3230−1 | 1 | 15 | 2 | Bolt−CARR |
| 3230−10 | 3 | 31 | 1 | Bolt−CARR |
| 3231−2 | 1 | 7 | 5 | Screw−CARR |
| 3231−2 | 2 | 7 | 10 | Screw−CARR |
| 3231−2 | 3 | 14 | 5 | Screw−CARR |

*Not Illustrated

# Toro Part Number Index (cont.)

| Part No. | Page No. | Ref. No. | Qty. | Description |
|---|---|---|---|---|
| 3235−22 | 2 | 4 | 12 | Screw−HH |
| 3247−2 | 3 | 30 | 2 | Screw−Set |
| 3253−5 | 3 | 10 | 4 | Washer−Lock |
| 3253−5 | 3 | 39 | 1 | Washer−Lock |
| 3256−3 | 3 | 18 | 1 | Washer−Flat |
| 3256−24 | 1 | 26 | 2 | Washer−Flat |
| 3256−24 | 2 | 19 | A/R | Washer−Flat |
| 3256−27 | 4 | 35 | 4 | Washer−Flat |
| 3257−14 | 3 | 16 | 1 | Key−Woodruff |
| 3290−307 | 5 | 8 | 2 | Pin−Cotter |
| 3290−355 | 3 | 21 | 4 | Pin−Hair |
| 3290−467 | 1 | 28 | 2 | Pin−Cotter |
| 3296−2 | 4 | 22 | 4 | Nut Lock |
| 3296−16 | 5 | 4 | 2 | Nut−Lock |
| 3296−29 | 1 | 9 | 4 | Nut−Lock |
| 3296−29 | 3 | 2 | 1 | Nut−Lock |
| 3296−39 | 1 | 3 | 9 | Nut−Lock |
| 3296−39 | 2 | 5 | 10 | Nut−Lock |
| 3296−39 | 3 | 20 | 6 | Nut−Lock |
| 3296−39 | 4 | 15 | 8 | Nut−Lock |
| 3296−60 | 2 | 2 | 3 | Nut−Lock |
| 32121−32 | 3 | 15 | 1 | Pin−Roll .25 X 1.75 |
| 32121−79 | 4 | 6 | 2 | Roll Pin |
| 32122−44 | 4 | 31 | 4 | Screw |
| 32144−69 | 3 | 23 | 4 | Screw−Tapping |
| 32151−91 | 4 | 19 | 4 | Ring−Retaining |

*Not Illustrated

# MAINTENANCE RECORD

| Date | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
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