FORM NO. 3319–706

TORO®

Z–Master

60” Side Discharge Cutting Unit

Model No. 78478 – 890001 & Up

Parts Catalog

ORDERING REPLACEMENT PARTS

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

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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.

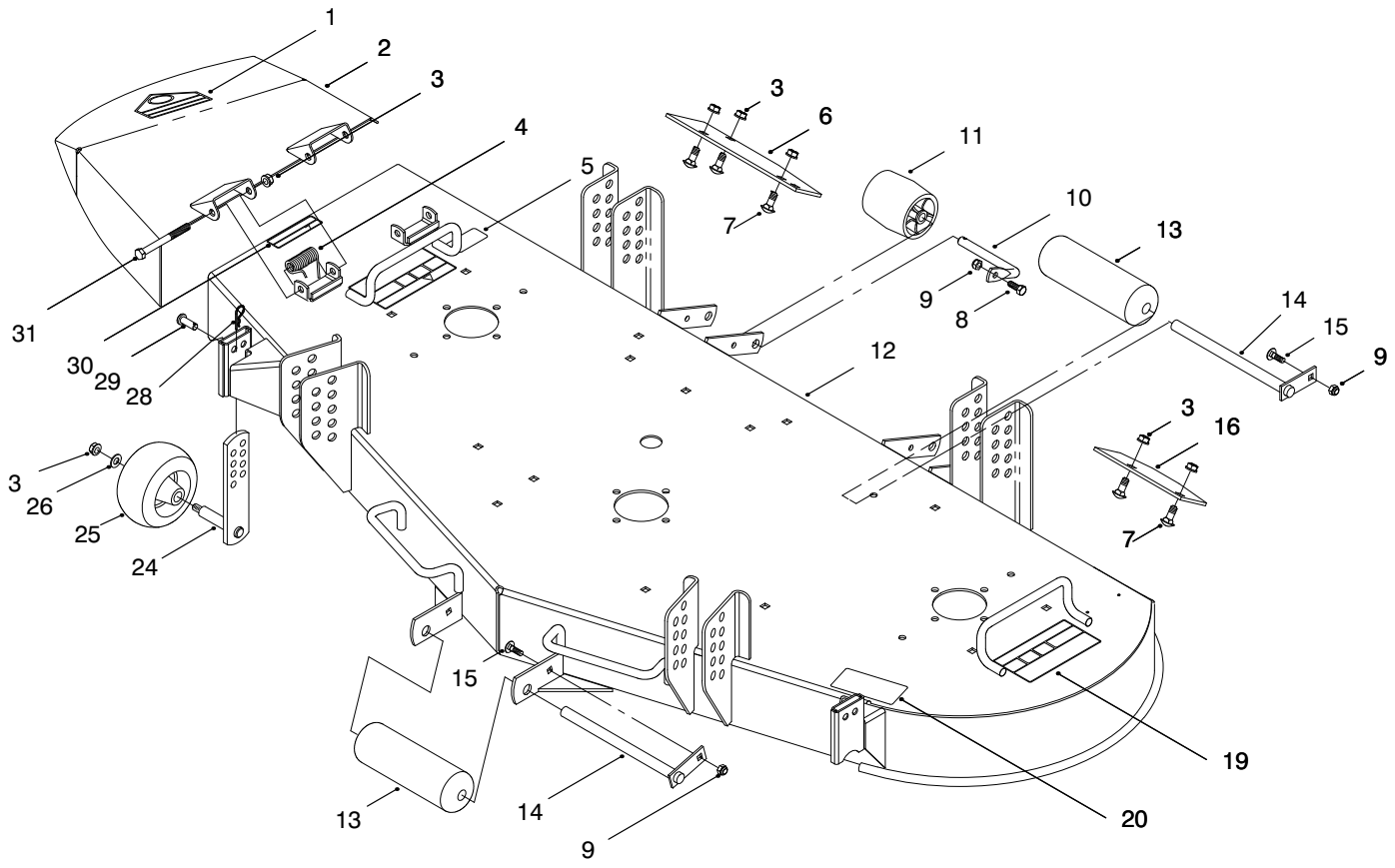
Reference numbers of this type appear in part lists and as callouts in illustrations.

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.

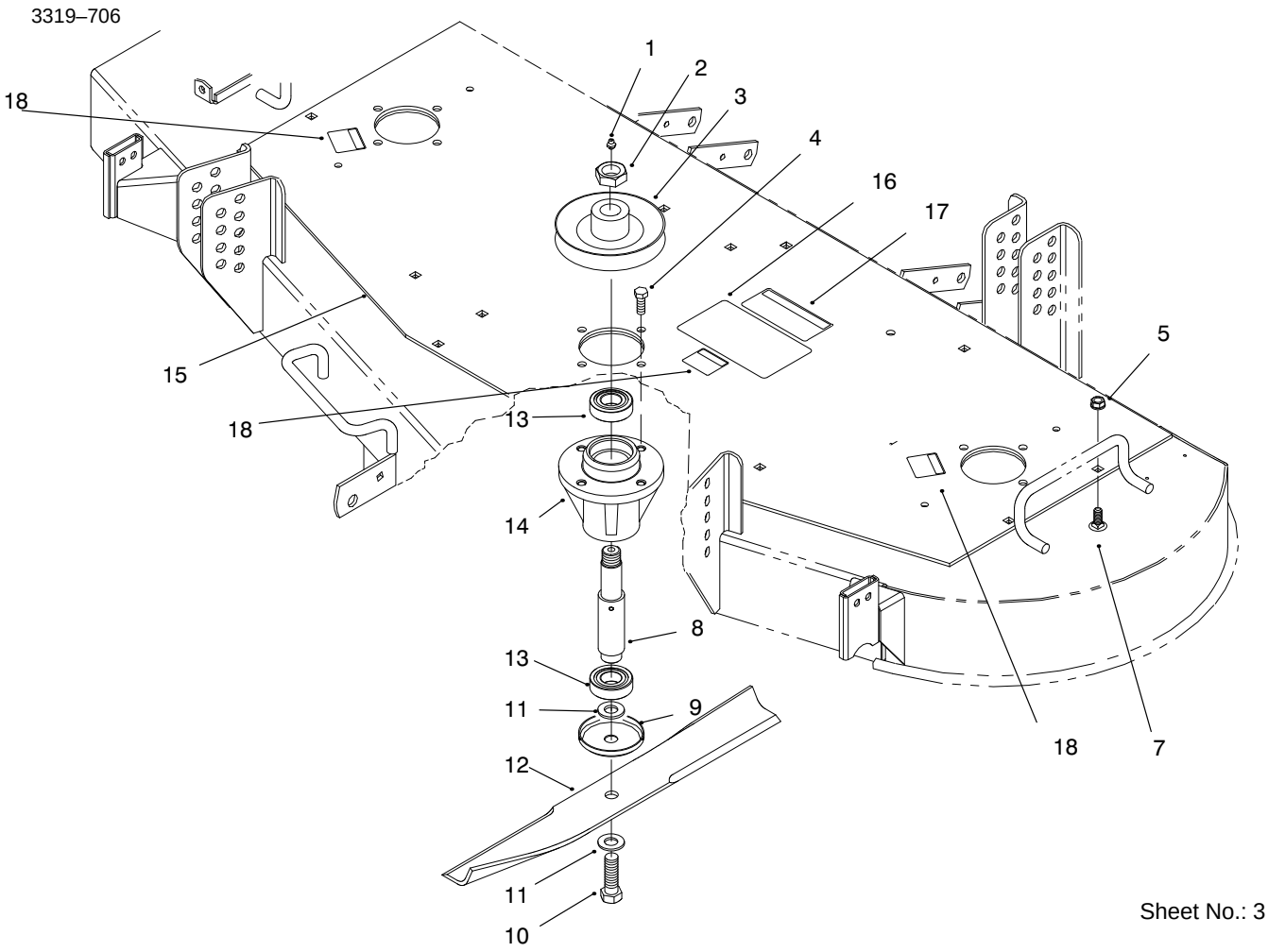
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Sheet No.: 2

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
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	98–4356	1	60” Deck ASM
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
30	66–6380	1	Decal–Danger
31	323–42	2	Screw–HH

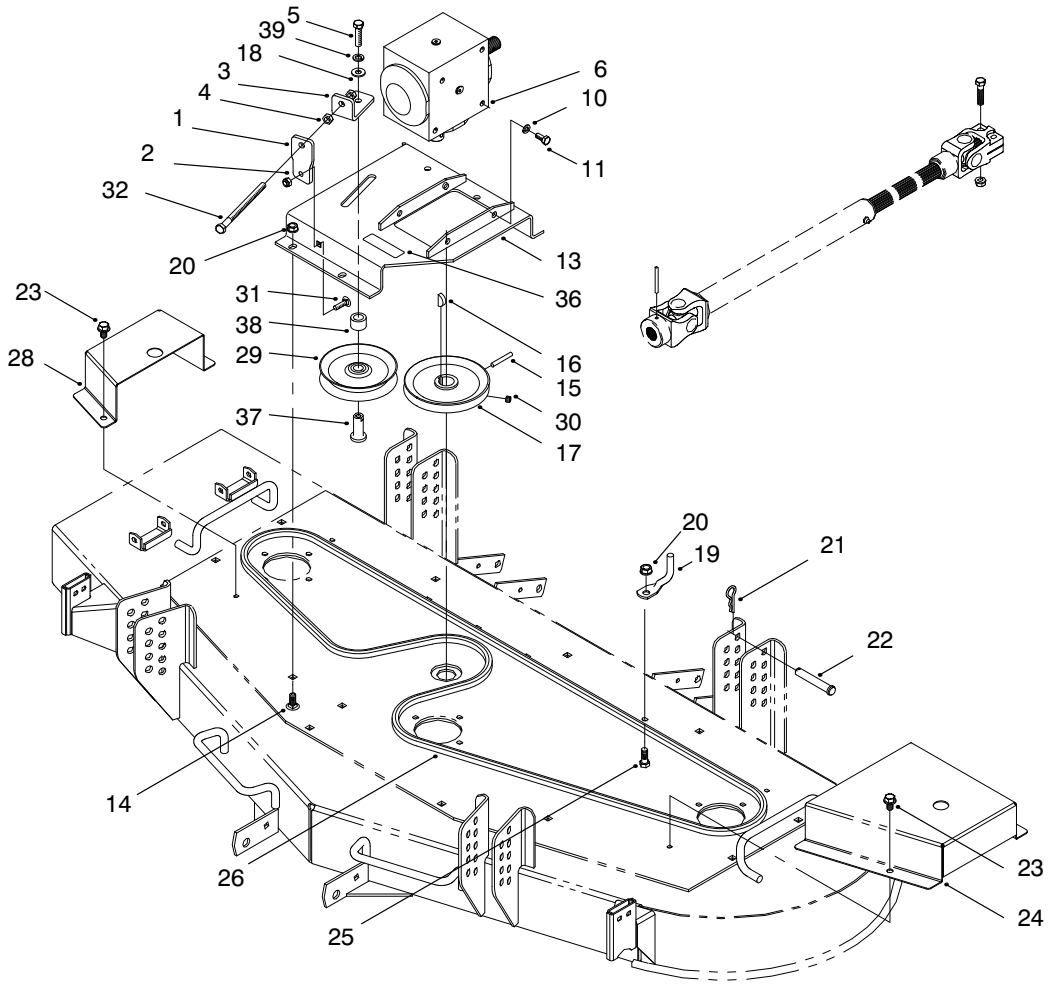


Sheet No.: 3

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
23	302–5	4	Fitting–Grease

Ref. No.	Part No.	Qty.	Description

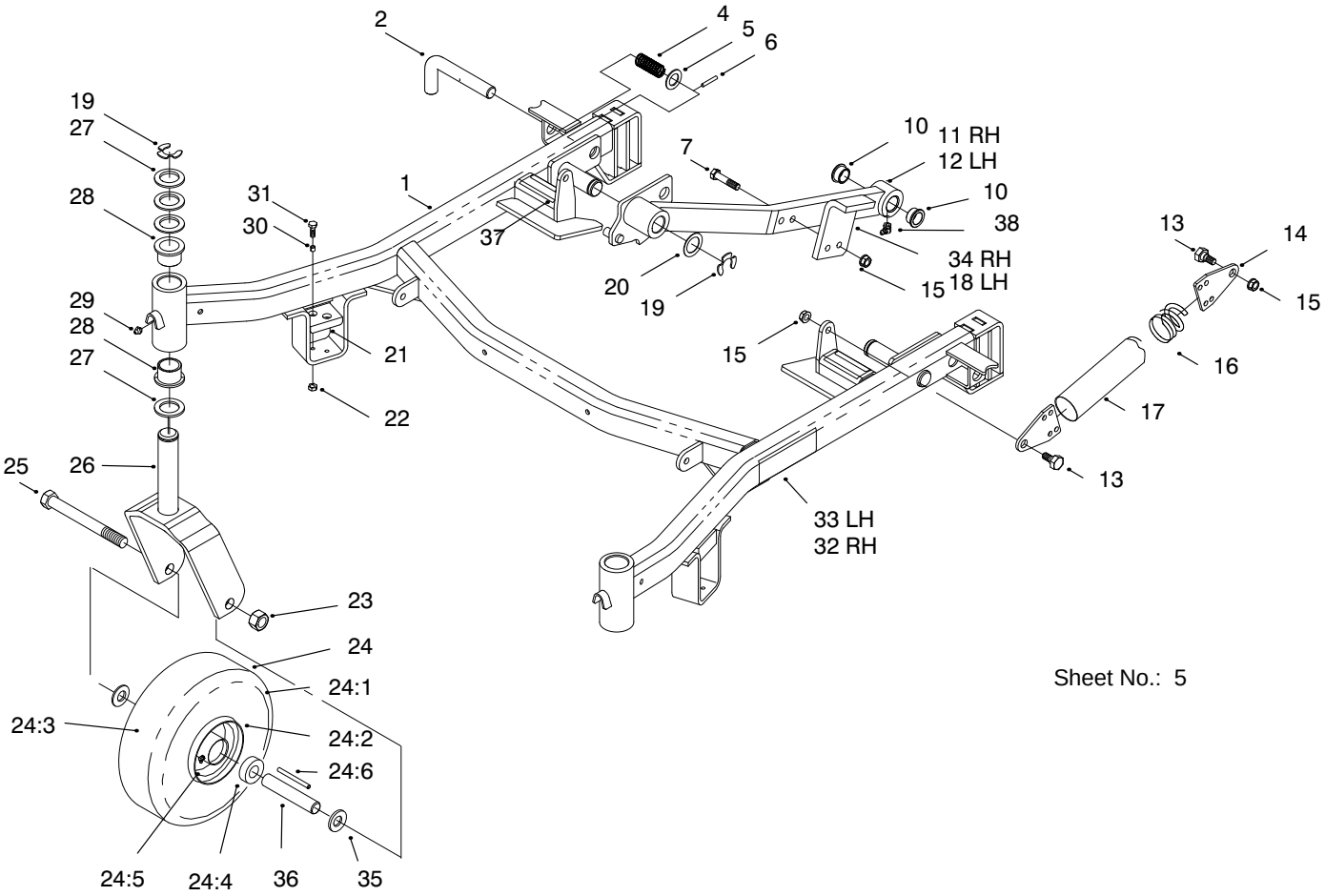


Sheet No.: 4

Drive & Idler Asm

Ref. No.	Part No.	Qty.	Description
1	94–9570	1	Plate–Tensioner
2	3296–29	1	Nut–Lock
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
30	3247–2	2	Screw–Set
31	3230–10	1	Bolt–CARR

Ref. No.	Part No.	Qty.	Description
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

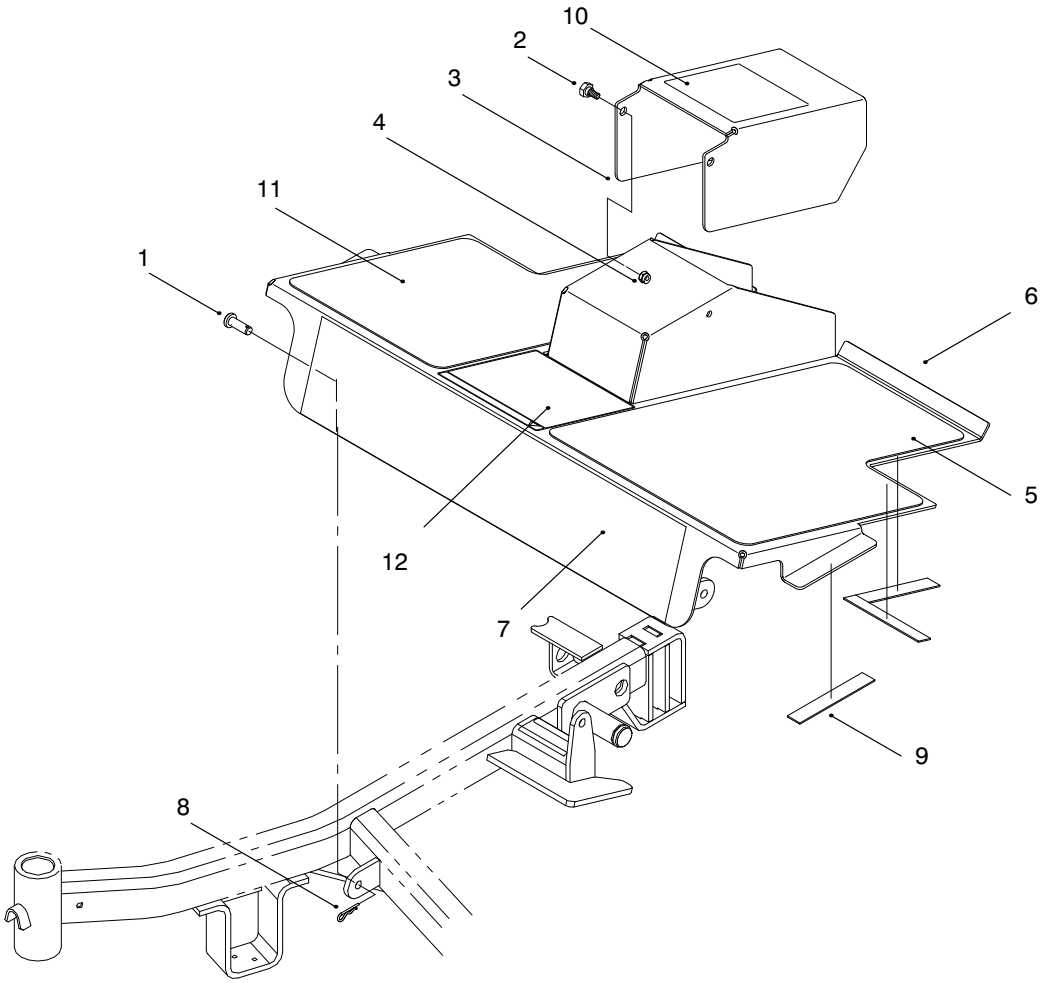


Sheet No.: 5

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	920225	2	Washer
6	32121–79	2	Roll Pin
7	323–9	4	Screw–HH
10	27–9080	4	Bushing
11	94–4731–01	1	Push Arm RH
12	94–4730–01	1	Push Arm LH
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	302–40	2	Fitting–Grease

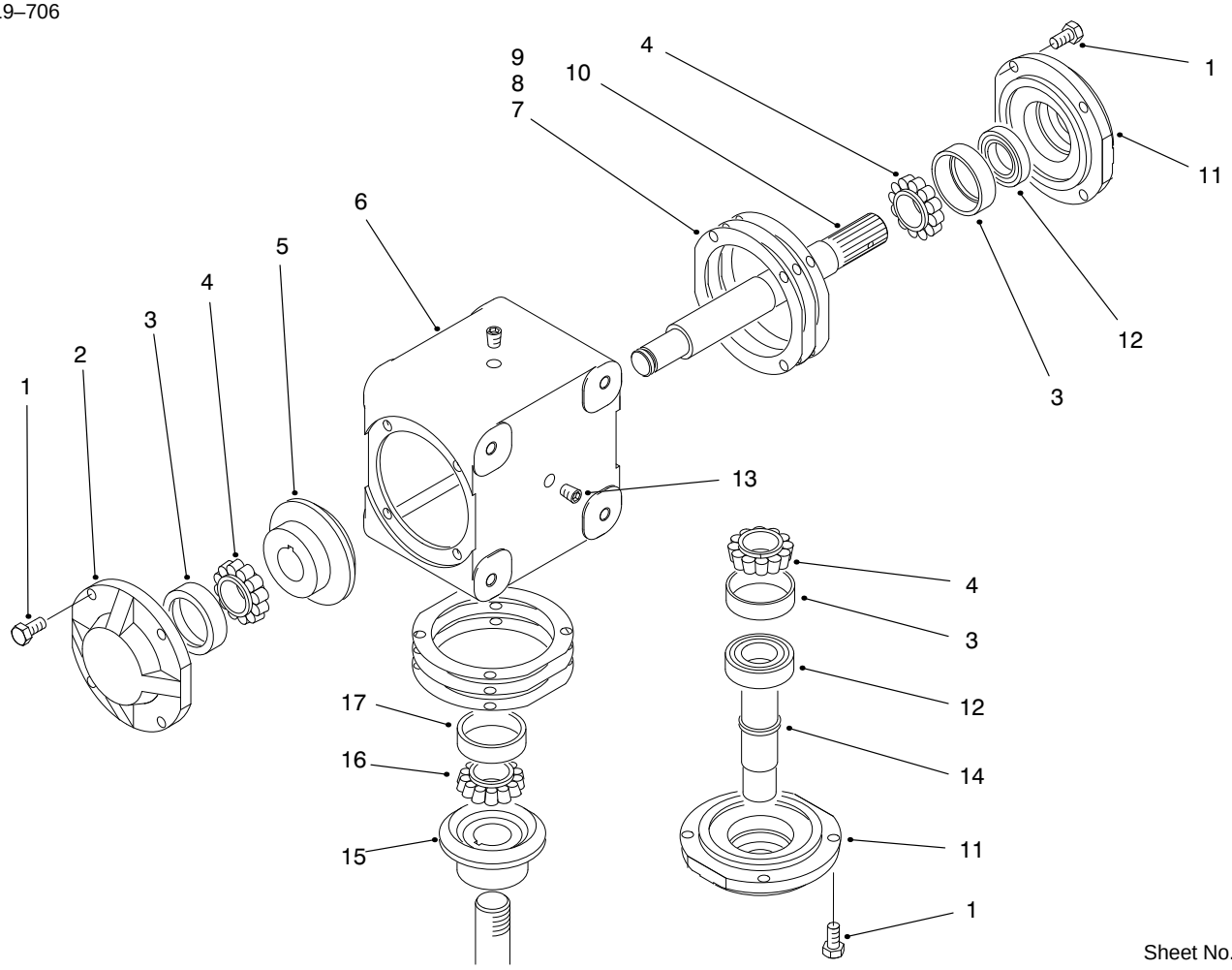


Sheet No.: 6

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



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	62–3420	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
920225	4	5	2	Washer
920260	2	11	6	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
94−4730−01	4	12	1	Push Arm LH
94−4731−01	4	11	1	Push Arm RH
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

*Not Illustrated

Toro Part Number Index (cont.)

Part No.	Page No.	Ref. No.	Qty.	Description
94−9542−01	5	3	1	Cover−Driveshaft
94−9547	2	16	1	Decal−Belt Installation
94−9549	3	32	1	Screw−HH .
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
98−4364	1	12	1	60” Deck/Decal 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	2	23	4	Fitting−Grease
302−5	4	29	2	Fitting−Grease
302−40	4	24:5	2	Fitting−Grease
302−40	4	38	2	Fitting−Grease
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
3256–27	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
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								