



Gearbox Service Kit

Greensmaster® Flex™ 21 Mower

Model No. 117-1457

Parts Catalog

Ordering Replacement Parts

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

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form a:b. The a represents the reference number of the entire service assembly and the b represents 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 illustrations and in part lists.

Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

Contents

Description	Page	Description	Page
Gearbox Assembly No. 117-1457 3	Differential Assembly No. 99-2038 6
Gearbox Assembly 4		

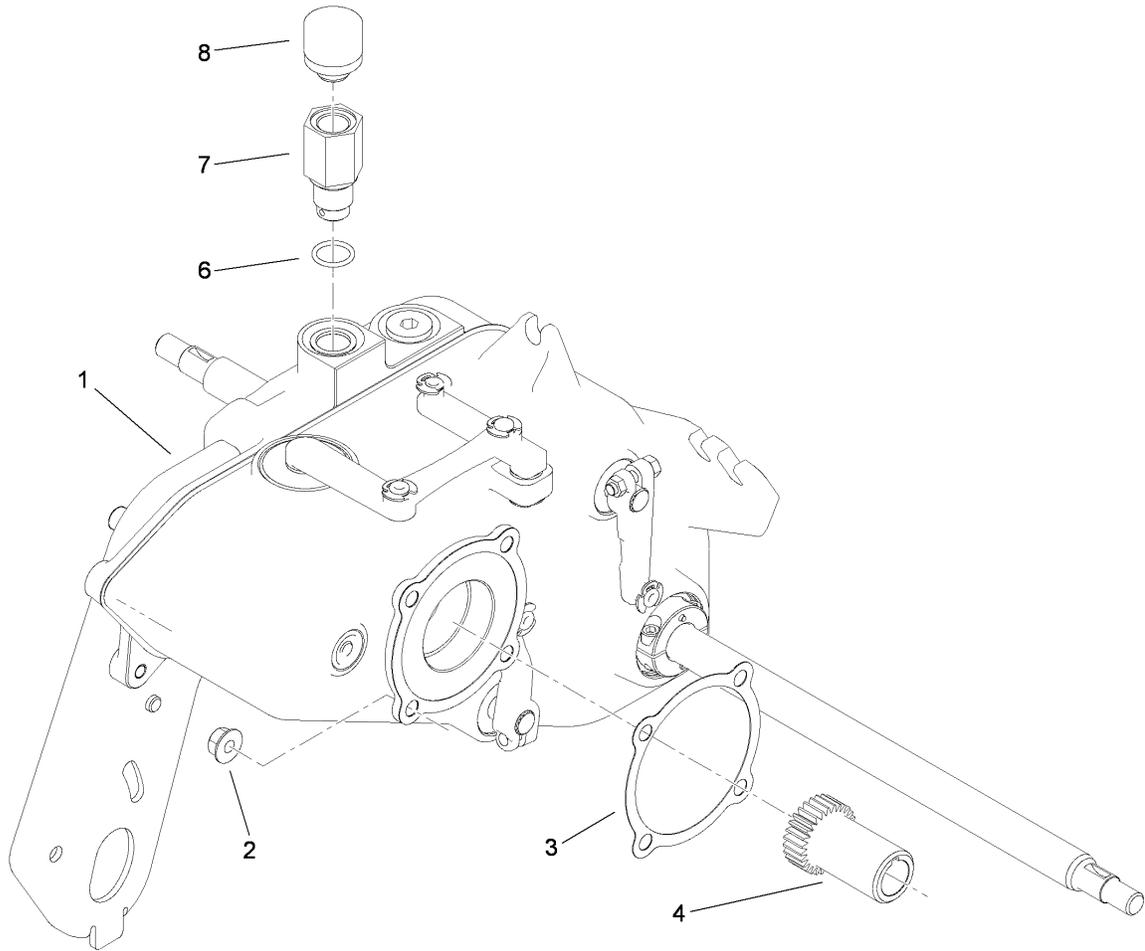
Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

AR. as required	HYD. hydraulic
ASM. assembly	LH. left hand
BBC. blade brake clutch	NI. nylon insert
CARR. carriage	NPTF. national pipe thread fine
DEG. degrees	PFH. phillips flat head
EXT. external	PPH. phillips pan head
FH. flat head	PPHTF. phillips pan head thread forming
GA. gauge	PRH. phillips round head
HD. heavy-duty	PTH. phillips truss head
HF. hex flange	PTO. power-take-off
HH. hex head	RH. right hand
HHF. hex head flange	ROPS. roll-over protection system
HHFTF. hex head flange thread forming	SFH. slotted fillister head
HJ. hex jam	SHH. slotted hex head
HLH. hex lag head	SHWH. slotted hex washer head
HOC. height-of-cut	SPH. slotted pan head
HSBH. hex socket button head	SQH. square head
HSFH. hex socket flat head	SRH. slotted round head
HSH. hex socket head	STD. standard
HWH. hex washer head	TAP. self tapping
HWHTF. hex washer head thread forming	TTH. torx truss head

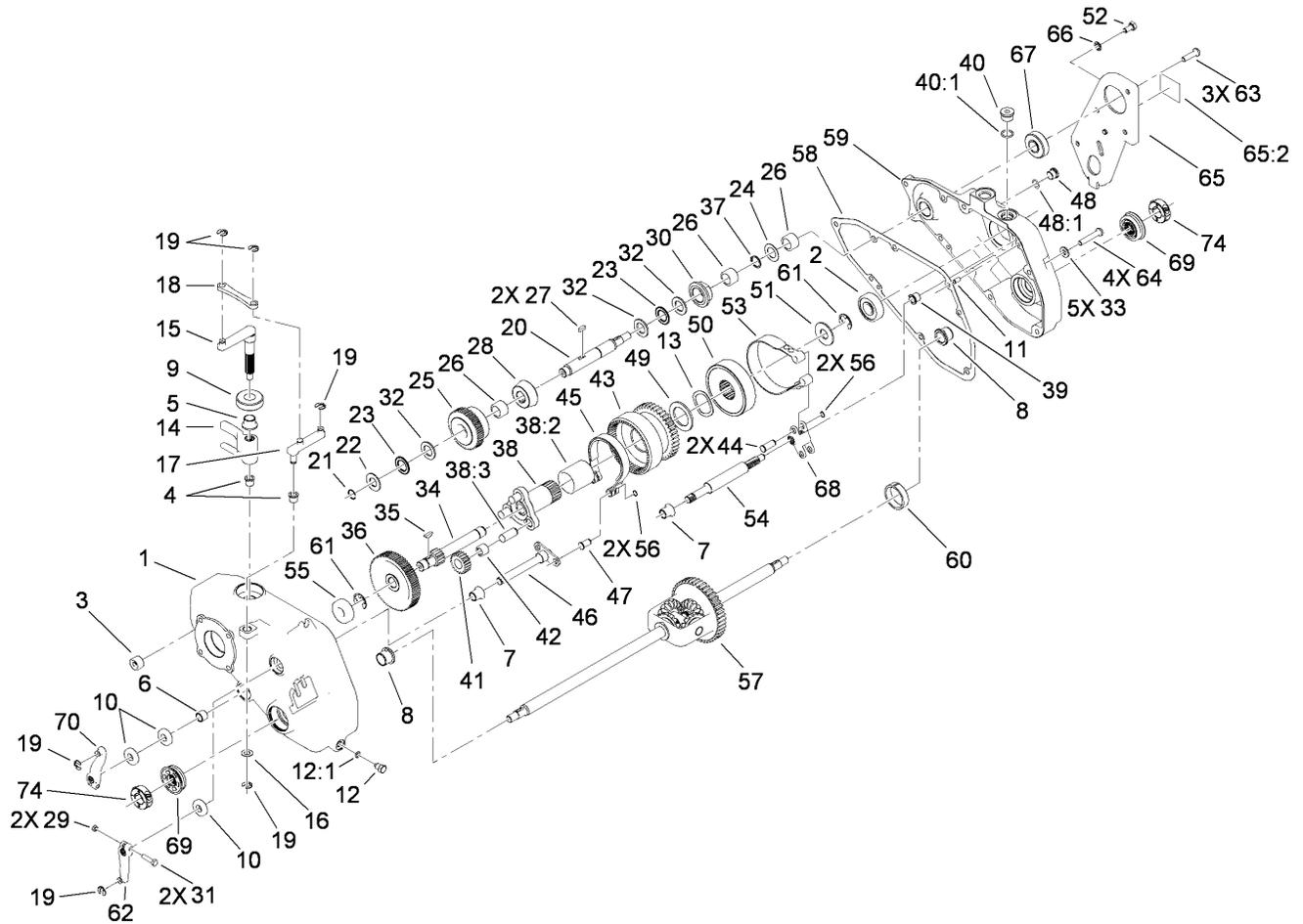
Footnotes

- ❶ Not serviced separately



Gearbox Assembly No. 117-1457

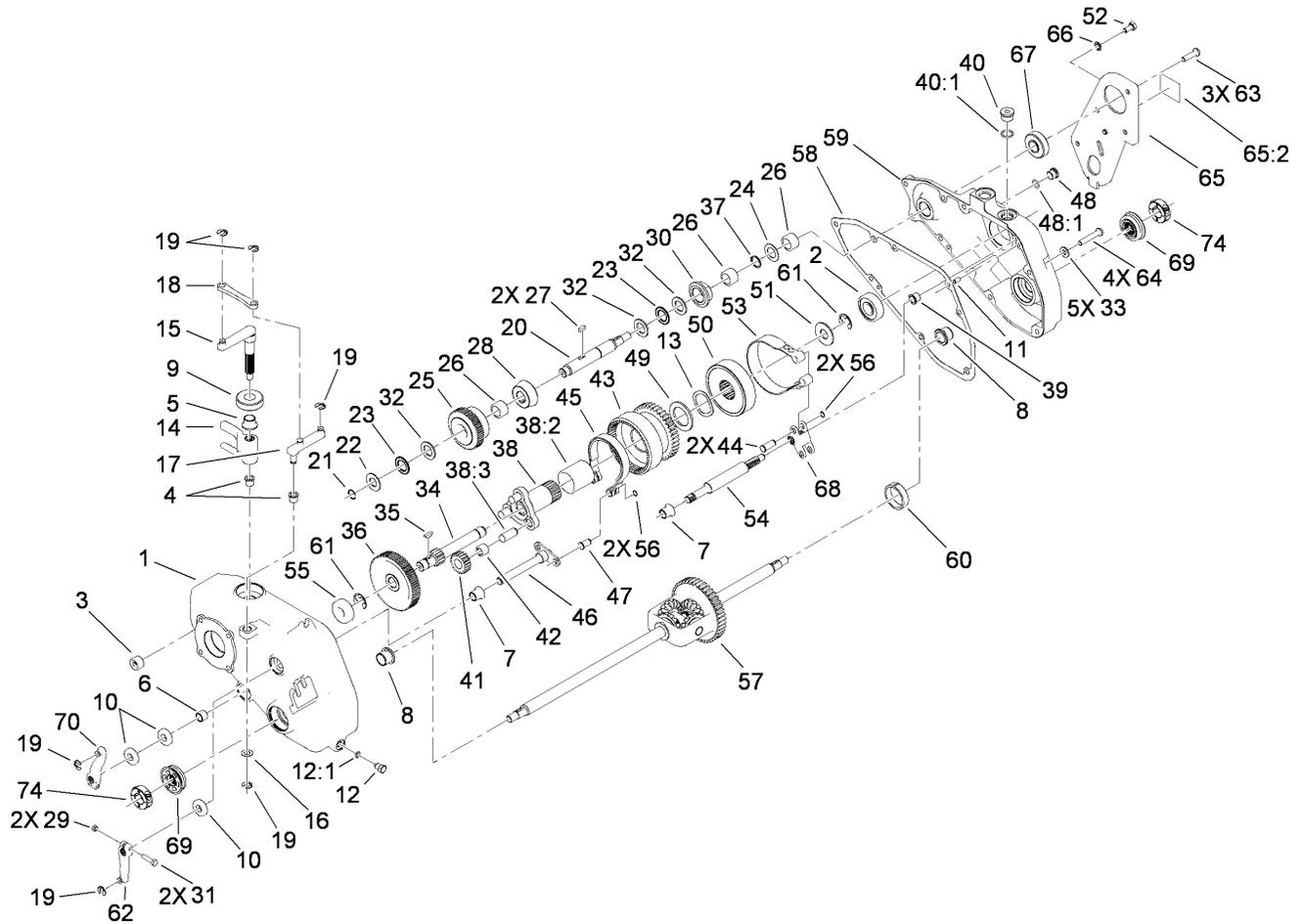
Ref	Part No.	Qty.	Description
1		1	Gearbox ASM
2	117-1350	4	Nut-HF, Lock
3	99-2052	1	Gasket-Flange
4	110-2445	1	Gear-Engine, 28 Tooth
6	237-79	1	O-Ring
7	117-1453	1	Adapter-Vent
8	117-1446	1	Vent-Breather



Gearbox Assembly

Ref	Part No.	Qty.	Description
1	117-1450	1	Housing-Gearbox
2	110-7339	1	Bearing-Ball
3	98-4194	1	Bearing-Needle, Caged
4	256-316	2	Bushing
5	256-287	1	Bushing
6	256-1	1	Bushing
7	256-219	2	Bushing
8	99-2062	2	Bushing-Keyed, Flanged
9	99-3842	1	Seal-Oil
10	99-2056	3	Seal-Oil
11	95-0715	2	Pin-Dowel
12	110-2455	1	Fitting-Plug, Magnetic
12:1	237-118	1	O-Ring
13	105-9944	1	Washer-Wave, Spring
14	99-2014	1	Fork-Clutch
15	99-2015	1	Shaft-Fork
16	37-8080	1	Washer-Thrust
17	110-2450	1	Lever-Bellcrank
18	99-3780	1	Link
19	32151-47	6	Ring-Retaining
20	115-1117	1	Shaft-Clutch, Reel
21	99-3805	1	Ring-Retaining
22	99-3806	1	Washer-Thrust
23	99-3836	2	Bearing-Thrust

Ref	Part No.	Qty.	Description
24	99-3837	1	Washer-Thrust
25	110-2444	1	Gear-Clutch, 55 Tooth (Reel Crowned)
26	1523	3	Bearing-Needle
27	99-2059	2	Key
28	107-3232	1	Cone ASM
29	33023-00	2	Nut-Lock
30	110-2459	1	Hub-Plunger
31	33113-025	2	Screw-HH
32	99-3807	3	Washer-Thrust
33	33094-00	5	Washer-Plain
34	107-8128	1	Shaft-Sun
35	3257-30	1	Key-Woodruff
36	110-2442	1	Gear-Traction, 78 Tooth (Crowned)
37	32120-72	1	Ring-Snap
38	110-2439	1	Carrier ASM
38:2	104-0524	1	Bushing-Carrier
38:3	107-9031	3	Pin-Dowel
39	104-9776	1	Bushing-Flanged
40	353-988	1	Plug-Hex
40:1	237-79	1	O-Ring
41	106-4694	3	Gear-Spur
42	48-2060	3	Bearing-Roller



Gearbox Assembly (continued)

Ref	Part No.	Qty.	Description
43	110-2451	1	Gear-Ring, Planetary
44	106-8444	2	Pin-Clevis, Long
45	99-2049	1	Band-Brake
46	99-2020	1	Shaft-Brake
47	106-8445	2	Pin-Clevis, Short
48	353-989	1	Plug-Hex, Hollow
48:1	237-42	1	O-Ring
49	99-2054	1	Washer-Thrust
50	110-2452	1	Drum-Clutch, Traction
51	99-2055	1	Washer-Thrust
52	33114-016	1	Screw-HH
53	107-9042	1	Clutch Band ASM
54	105-9937	1	Shaft-Clutch, Traction
55	251-6	1	Bearing-Ball
56	32120-46	4	Ring-Retaining
57	99-2038	1	Differential ASM
58	117-1452	1	Gasket-Gearbox
59	117-1451	1	Cover-Gearbox
60	99-2061	1	Bushing-Keyed
61	32151-48	2	E-Ring
62	99-3761	1	Lever-Gearbox
63	99-6208	3	Screw-HSH
64	99-6207	4	Screw-HSBH
65	110-2293	1	Drive Plate ASM

Ref	Part No.	Qty.	Description
65:2	93-9356	1	Decal-Warning, Belt
65:2	93-9389	1	Decal-Warning, Belt (Japan)
66	3254-2	1	Washer-Lock, Internal
67	105-2429	1	Seal-Oil
68	105-9938	1	Hub-Clutch, Traction
69	117-1443	2	Seal-Oil
70	110-3451	1	Lever-Gearbox
74	117-1375	2	Collar ASM

NOTES

