Form No. 3477-378 Rev B

TORO®

Count on it.

Parts Catalog

TimeCutter® Max 54in Zero Turn

Riding Mower

Model No. 77504—Serial No. 419017788 and Up

Register at www.Toro.com.
Original Instructions (EN)

3477-378 B

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 illustration and in parts 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.

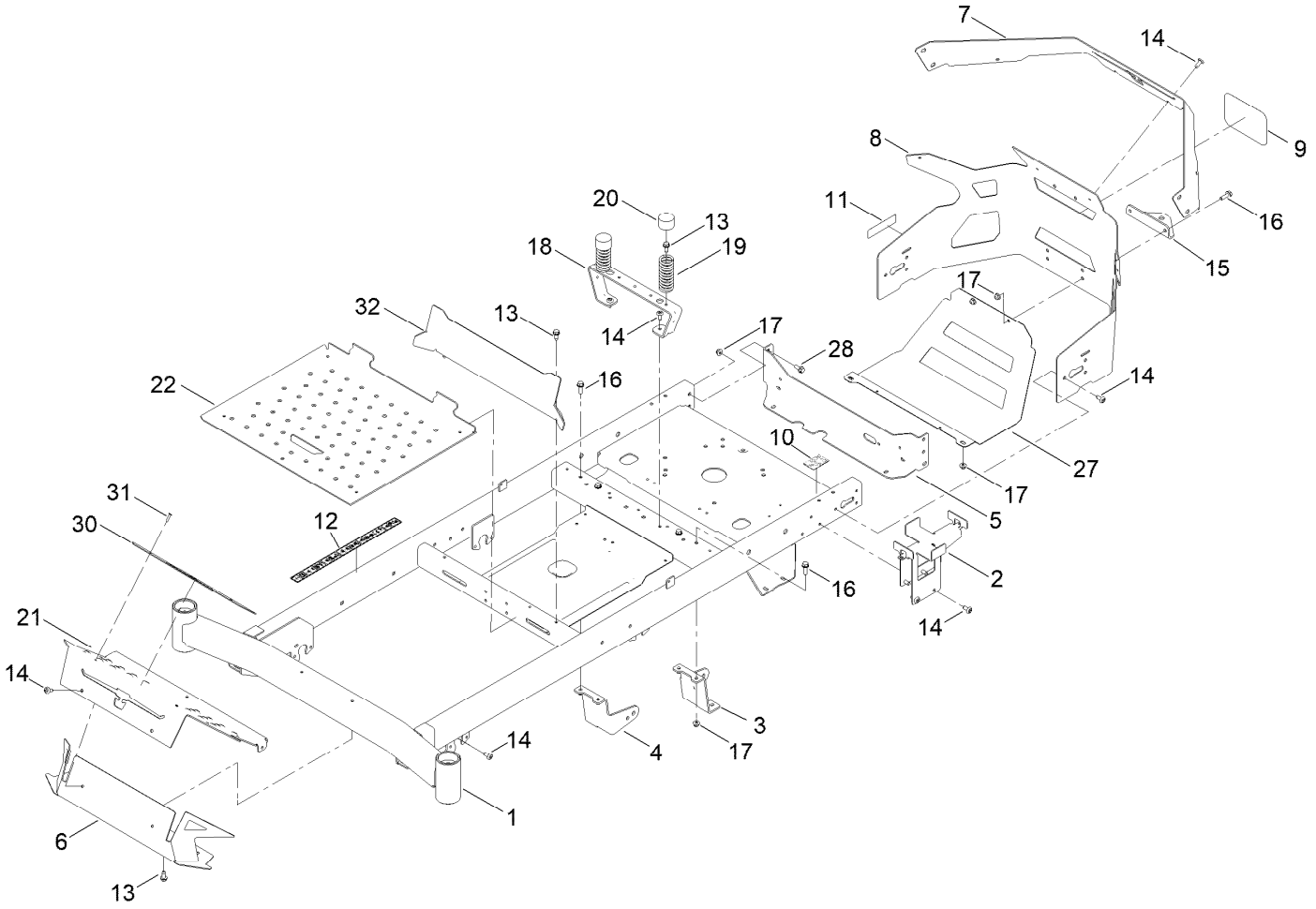
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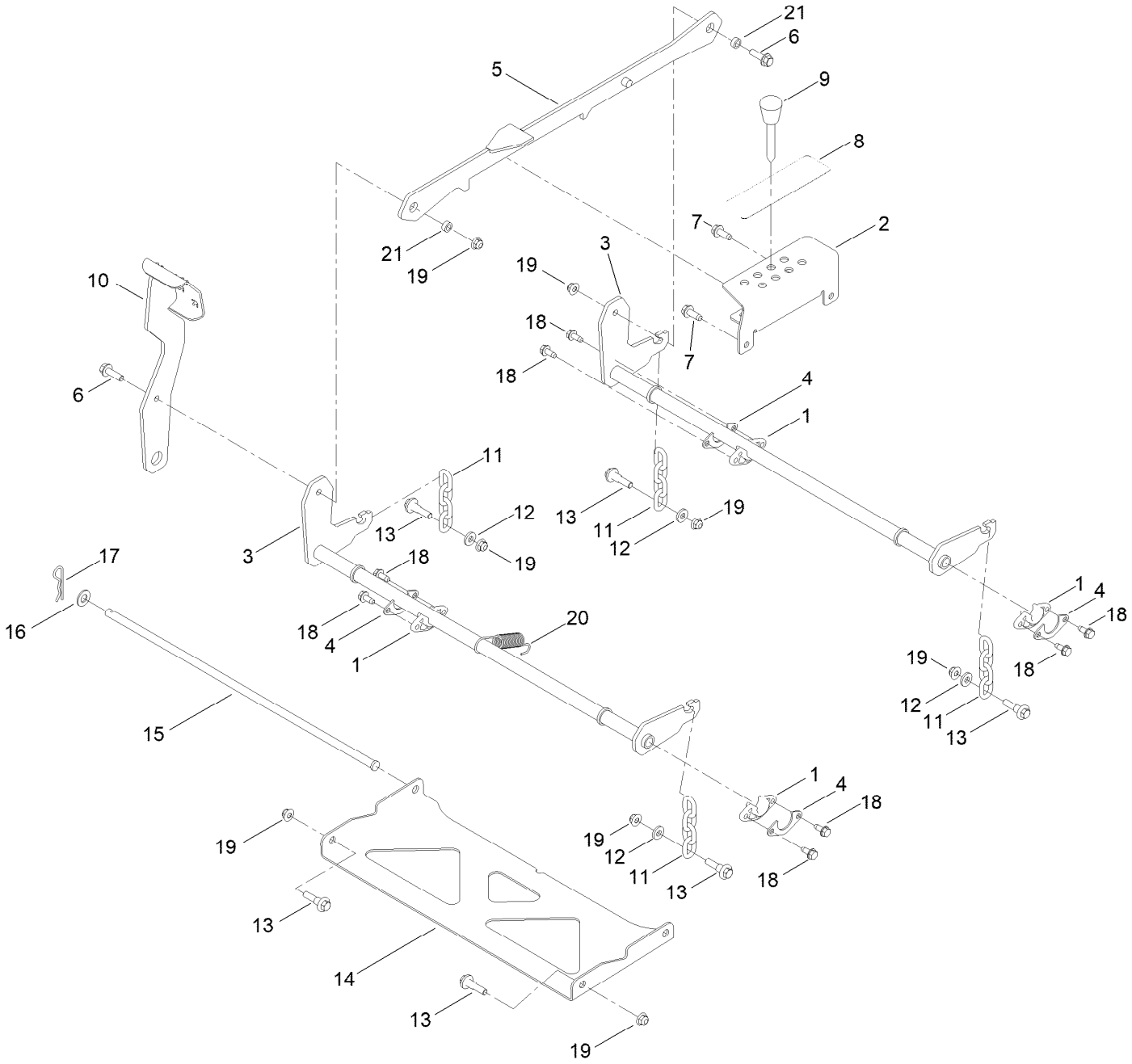
Frame Assembly



Frame Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-6023	1	Service ASM-Frame
2	163-6020-01	1	Tray-Battery
3	161-6506-01	1	Mount-Drive, LH
4	161-6507-01	1	Mount-Drive, RH
5	147-8709-03	1	Plate-Mount
6	147-2966-03	1	Footrest-Top
7	147-2995-01	1	Plate-Rear Cladding Tc
8	147-2994-03	1	Guard-Engine Tc
9	99-4693	1	Decal
10	161-6207	1	Decal-Bypass
11	142-5864	1	Decal-Spark Arrester
12	144-5288	1	Decal-Warning
13	32144-70	6	Screw-HWHTF
14	138-9753	20	Screw
15	117-1232-03	1	Bracket-Hitch
16	139-2596	6	Screw-HHF
17	119-4041	12	Nut-HF
18	145-6315-03	1	Support-Seat
19	138-2548	2	Spring-Compression
20	701178	2	Cap-Protector
21	145-6368-01	1	Plate-Kick
22	145-6370-01	1	Pan-Floor
27	163-6002-03	1	Guard-Muffler [black]
28	139-2598	4	Screw-HHF
30	147-8716-05	1	Plate- Toeboard
31	130-8451	2	Rivet-Trifold
32	147-5170-03	1	Plate-Kick

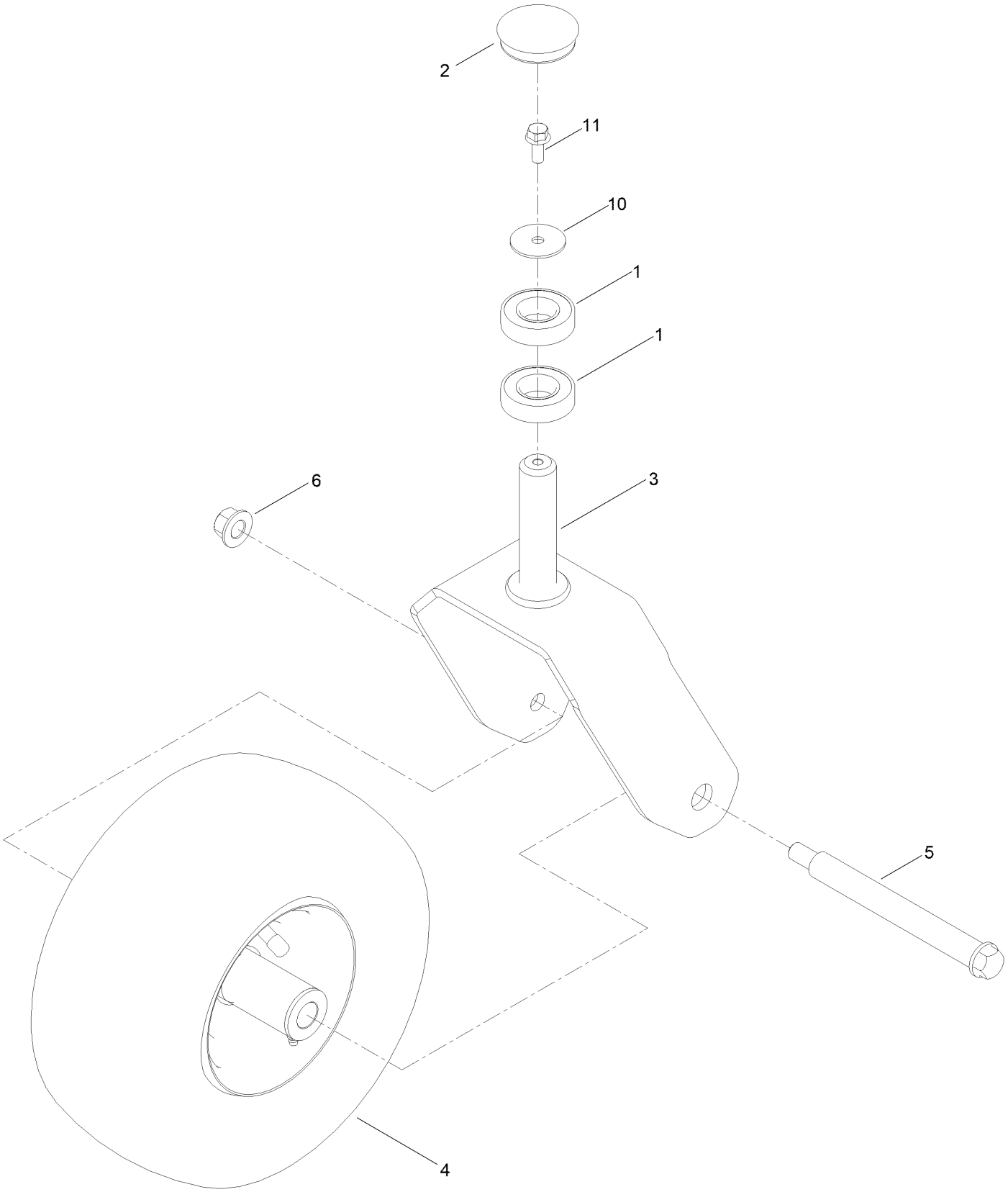
Decklift Assembly



Decklift Assembly (continued)

Ref.	Part Number	Qty.	Description
1	139-5872	4	Bearing-Flange
2	145-6257-01	1	Bracket-HOC
3	145-4645-01	2	Pivot ASM-Decklift [red]
4	138-7204	4	Gusset-Deck Lift
5	145-0557-01	1	Link ASM-HOC [red]
6	119-4061	2	Screw-HHF
7	139-2428	2	Screw-HWH
8	147-2866	1	Decal-HOC, Tc
9	140-2146	1	HOC Pin ASM
10	145-6278-01	1	Pedal ASM [red]
11	138-7205	4	Chain-Decklift, 4-Link
12	138-7207	4	Spacer-Hub, Blower
13	130-0742	6	Bolt-Shoulder
14	145-6248-03	1	Pan-Deck Pivot
15	145-6288	1	Pin-Deck
16	139-2611	1	Washer-Flat
17	139-2562	1	Pin-Hair
18	32144-70	8	Screw-HWHTF
19	119-4042	8	Nut-HF, NI
20	138-7206	1	Spring-Extension
21	140-2093	2	Spacer

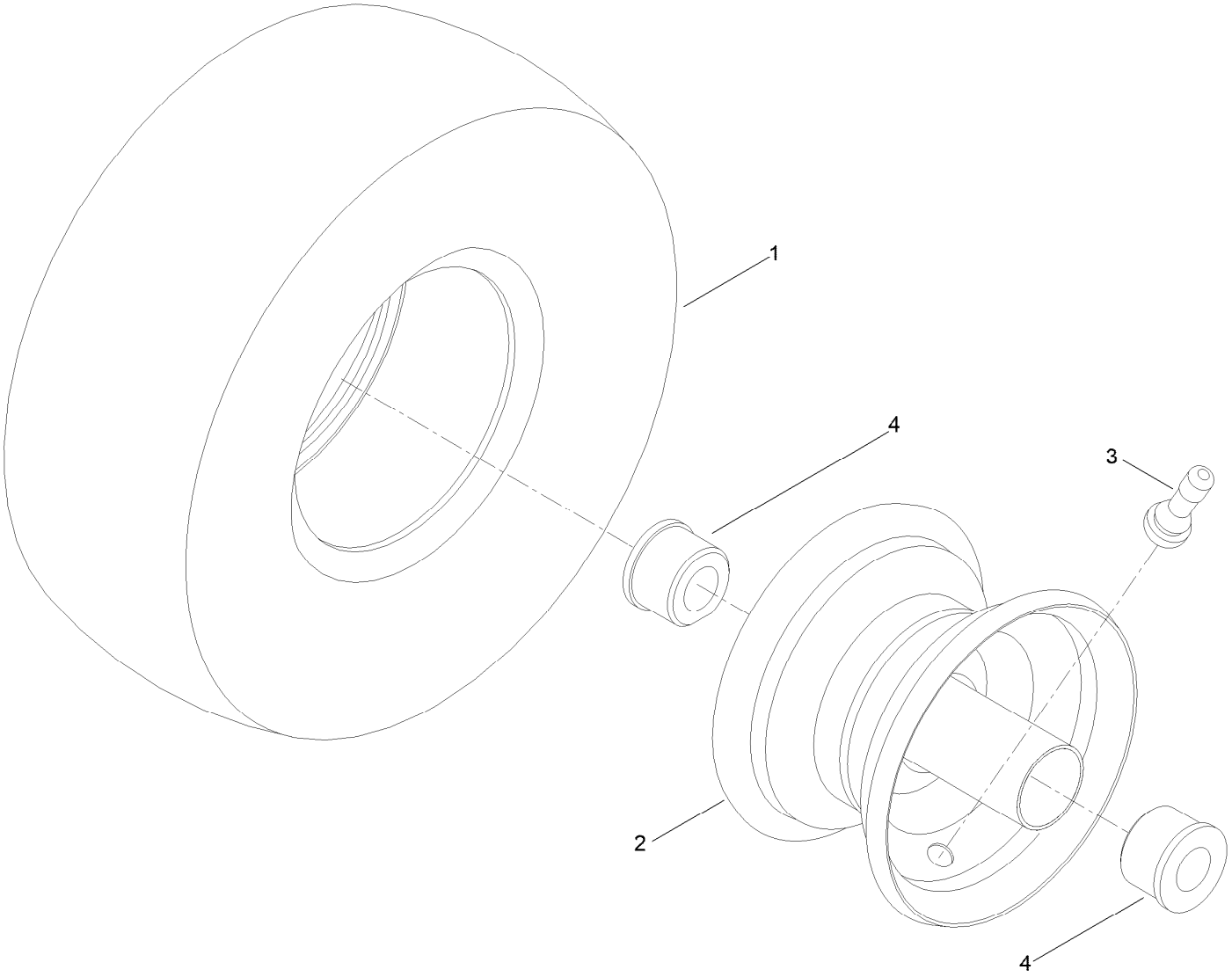
Caster Wheel Assembly



Caster Wheel Assembly (continued)

Ref.	Part Number	Qty.	Description
1	109-3678	4	Bearing-Ball
2	144-0375	2	Cap-Grease
3	145-4674-01	2	Fork
4	145-4692	2	Wheel ASM - Caster 12X6-5
5	145-4649	2	Screw-Shoulder HHF
6	99-5107	2	Nut-HF Nylock
10	115-1151	2	Washer-Flat
11	100-1668	2	Screw-HHF

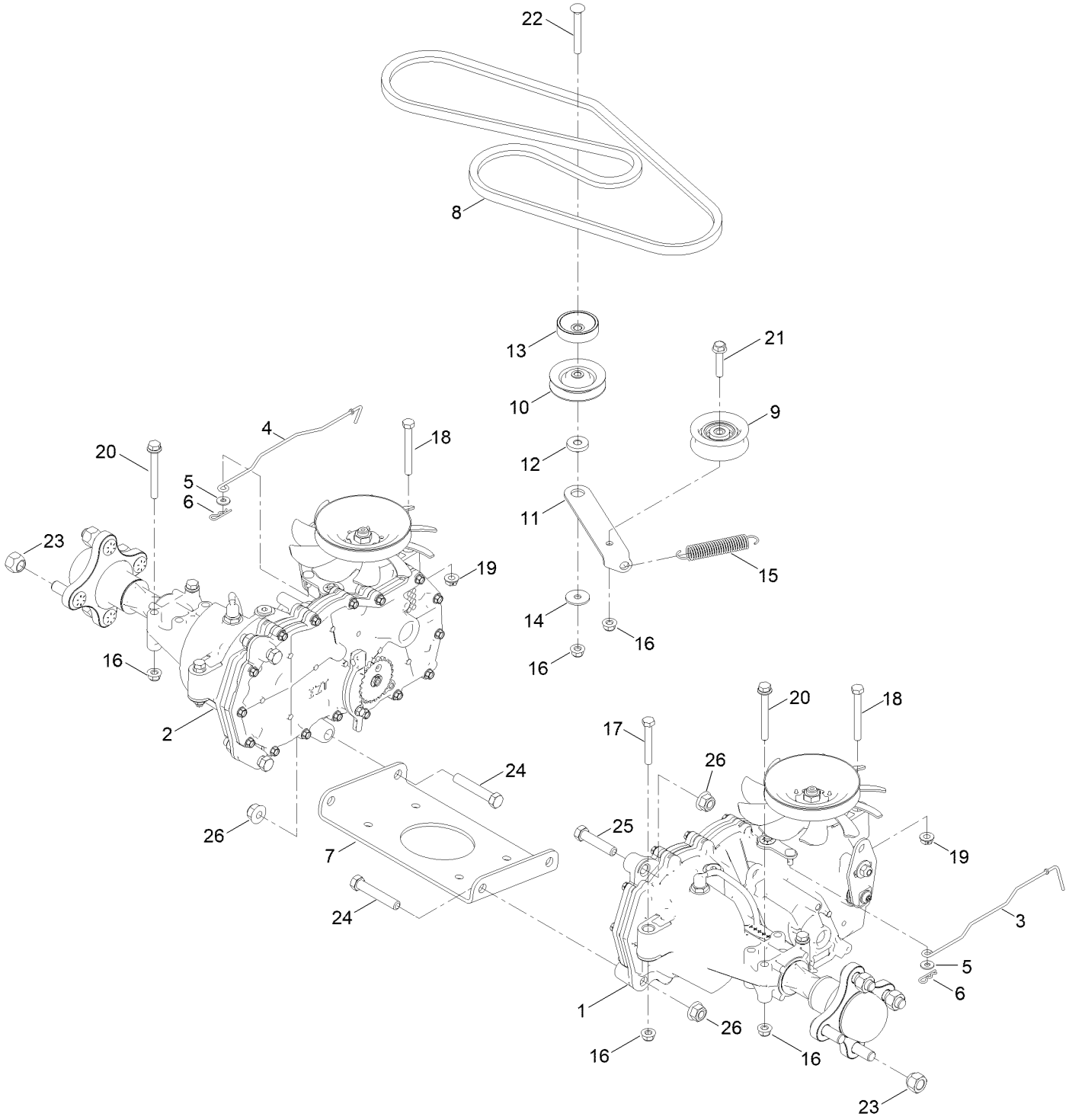
Wheel Assembly No. 145-4692



Wheel Assembly No. 145-4692 (continued)

Ref.	Part Number	Qty.	Description
1	145-4672	1	Tire 12X6-5
2	145-4673	1	Wheel (W/ Zerk And Bushings)
3	232-27	1	Stem-Valve
4	114-1640	2	Bushing-Flange

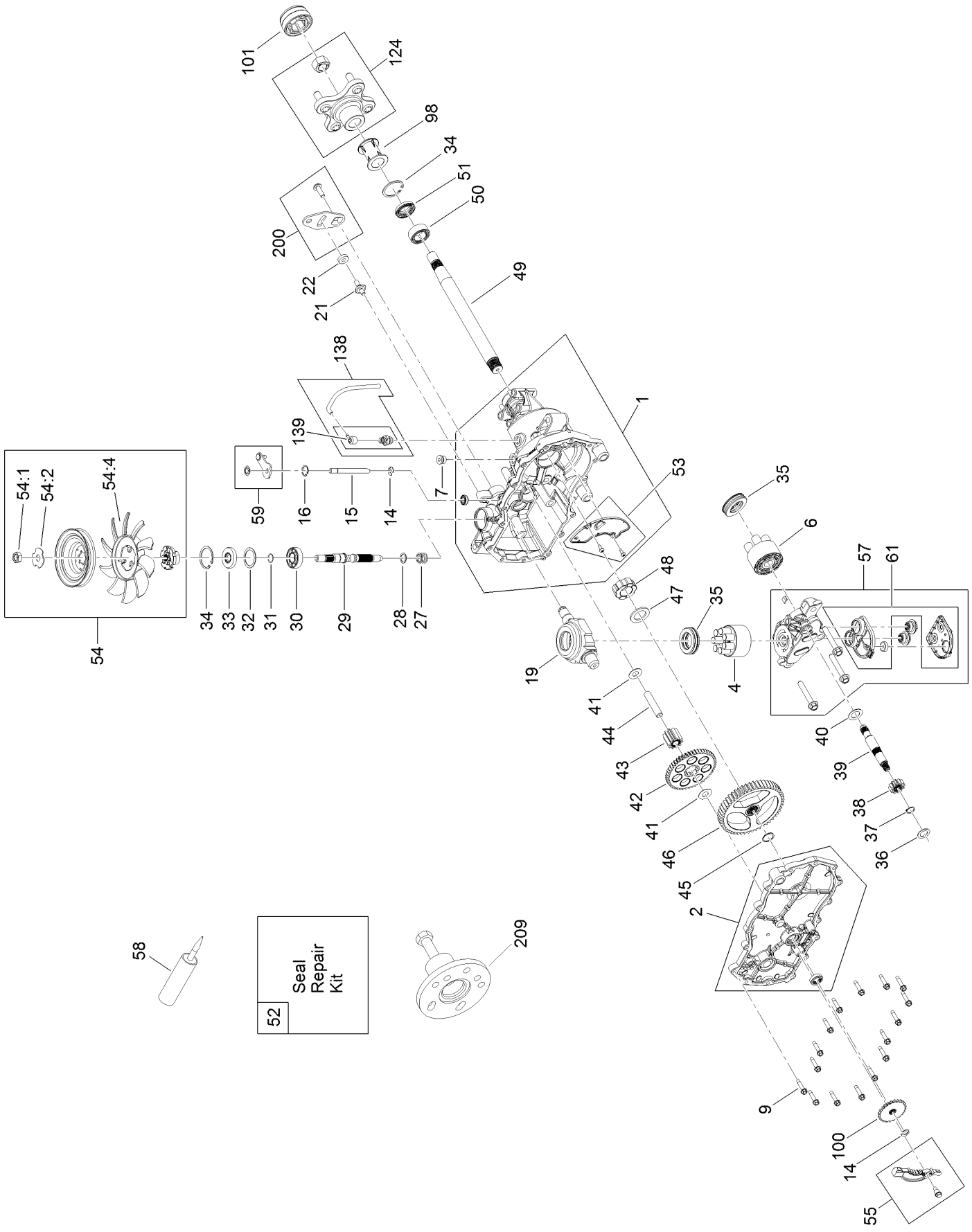
Traction Drive Assembly



Traction Drive Assembly (continued)

Ref.	Part Number	Qty.	Description
1	139-7470	1	LH Hydro Transaxle ASM
2	139-7471	1	RH Hydro Transaxle ASM
3	147-2988	1	Rod-Bypass, LH
4	147-2989	1	Rod-Bypass, RH
5	119-8952	2	Washer-Spcl
6	3290-307	2	Pin-Cotter
7	145-6390-03	1	Plate-Cross Hydro
8	145-6361	1	V-Belt (A Sec 63.8 El)
9	138-7597	1	Pulley-Idler, Flat
10	68-0030	1	Idler
11	147-2925	1	Arm-Idler
12	138-7277	1	Spacer-Arm, Idler
13	138-9809	1	Spacer
14	5-4460	1	Washer-Pivot
15	137-7040	1	Spring-Return, Pedal
16	104-8300	8	Nut-HF, NI
17	322-11	2	Screw-HH
18	145-6388	2	Screw-HH Spcl
19	139-2574	2	Nut-HF
20	138-7590	4	Screw-HHF
21	115-1794	1	Screw-HHF
22	3230-8	1	Screw-CARR
23	139-2564	8	Nut-Lug
24	324-10	4	Screw-HH
25	324-8	2	Screw-HH
26	114-8417	6	Nut-HF, NI

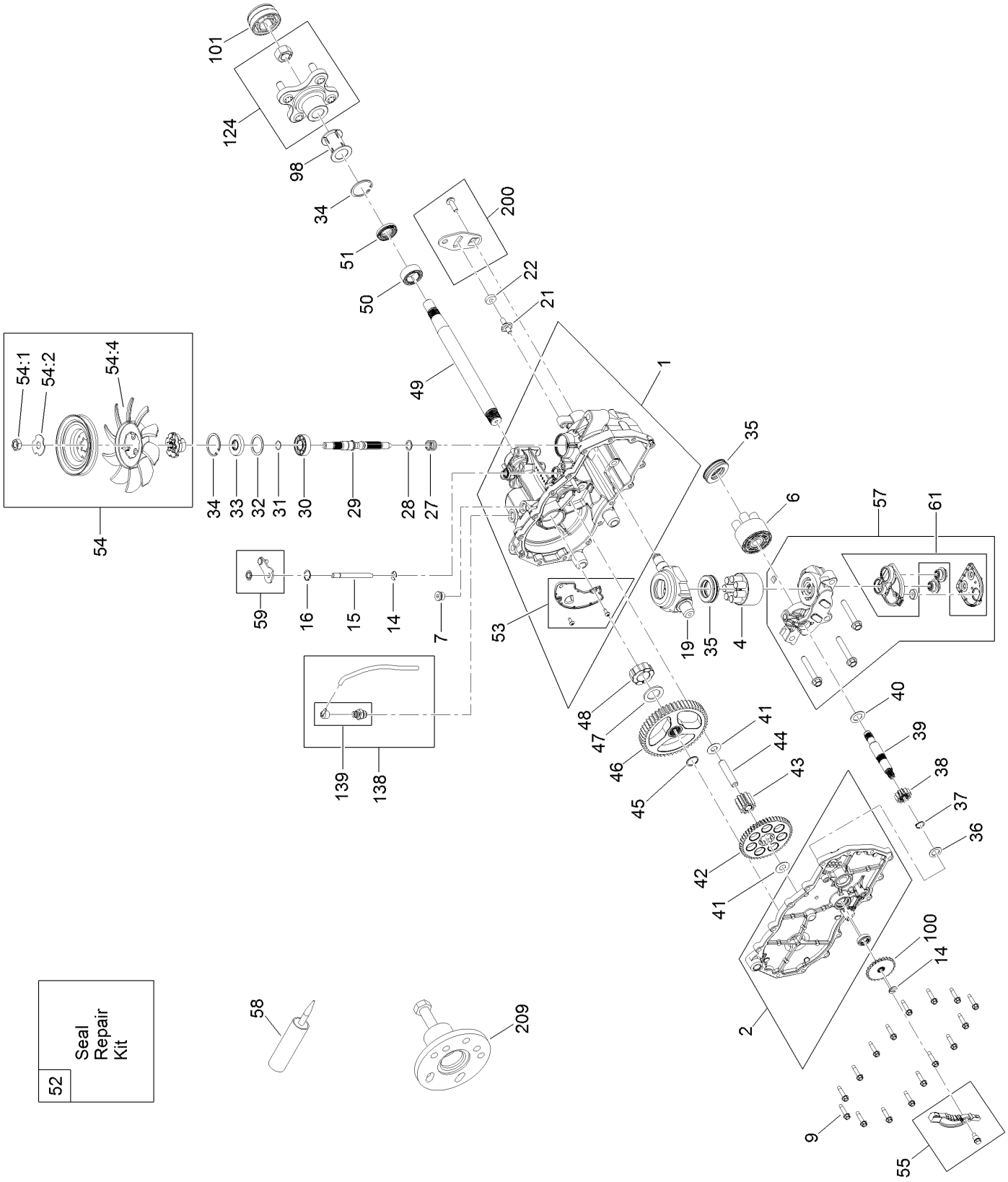
LH Transaxle Assembly No. 139-7470



LH Transaxle Assembly No. 139-7470 (continued)

Ref.	Part Number	Qty.	Description
1	106-8695	1	Main Housing ASM
2	106-8696	1	Side ASM
4	110-8561	1	Pump Block ASM
6	103-2666	1	Cylinder Block Kit
7	104-2189	1	Plug-Thread, Straight
9	117-5359	16	Screw-HHF
14	106-8677	2	Ring-Retaining, External
15	106-8678	1	Rod-Bypass
16	106-8679	1	Ring-Retaining, Internal
19	104-5304	1	Swashplate-Trunnion
21	104-2116	1	Stud
22	112-9853	1	Puck-Friction
27	94-1936	1	Spring-Block
28	94-1937	1	Washer-Thrust
29	104-5306	1	Shaft-Input
30	104-5311	1	Bearing-Ball
31	104-5307	1	Ring-Retaining
32	104-5308	1	Spacer
33	104-5310	1	Seal-Lip
34	104-5309	2	Ring-Retaining
35	94-6922	2	Bearing-Thrust
36	104-5339	1	Washer-Flat
37	104-5340	1	Ring-Retaining
38	132-0912	1	Gear-12T
39	106-8683	1	Shaft-Motor
40	104-5360	1	Washer
41	94-1933	2	Washer
42	132-0911	1	Gear-49T
43	104-5318	1	Gear-Jackshaft, 10T
44	104-5329	1	Pin-Jackshaft
45	112-9854	1	Ring-Spiral, Retaining
46	112-9855	1	Gear-52T, Bull
47	112-9856	1	Washer
48	112-9857	1	Bearing-Sleeve
49	120-7104	1	Shaft-Axle
50	112-9859	1	Bushing-Axle
51	112-9860	1	Seal-Lip
52	106-8686	1	Seal Kit
53	106-8697	1	Expansion Plate Kit
54	135-7349	1	Fan And Pulley Kit
54:1	116-9714	1	Nut-HJ
54:2	116-9708	1	Washer-Slotted
54:4	135-7364	1	Fan 7.0 X 10 Blade
55	106-8688	1	Brake Arm Kit
57	112-9861	1	Center Section Filter Kit
59	120-5549	1	Bypass Kit
61	114-1634	1	Filter Kit
98	120-7109	1	Tube-Axle
100	106-8694	1	Disc-Brake, Cog
101	115-5057	1	Cover-Nut, Axle
124	109-5939	1	Hub Kit
138	112-9866	1	Breather Kit
139	114-1635	1	Breather ASM
200	117-5362	1	Control Arm Kit
209	114-8467	1	Puller-Hub, 4 Bolt

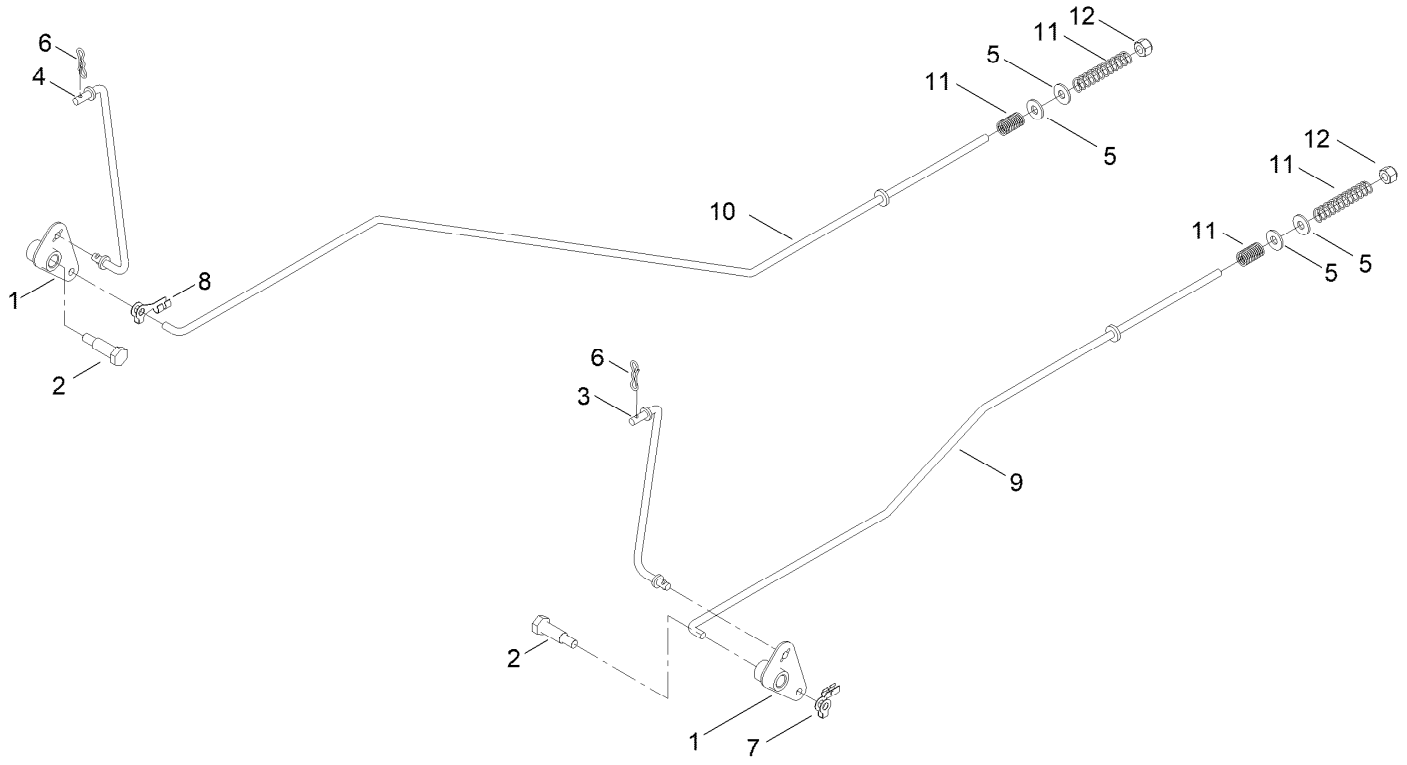
RH Transaxle Assembly No. 139-7471



RH Transaxle Assembly No. 139-7471 (continued)

Ref.	Part Number	Qty.	Description
1	106-8674	1	Main Housing ASM
2	106-8675	1	Side ASM
4	110-8561	1	Pump Block ASM
6	103-2666	1	Cylinder Block Kit
7	104-2189	1	Plug-Thread, Straight
9	117-5359	16	Screw-HHF
14	106-8677	2	Ring-Retaining, External
15	106-8678	1	Rod-Bypass
16	106-8679	1	Ring-Retaining, Internal
19	104-5304	1	Swashplate-Trunnion
21	104-2116	1	Stud
22	112-9853	1	Puck-Friction
27	94-1936	1	Spring-Block
28	94-1937	1	Washer-Thrust
29	104-5306	1	Shaft-Input
30	104-5311	1	Bearing-Ball
31	104-5307	1	Ring-Retaining
32	104-5308	1	Spacer
33	104-5310	1	Seal-Lip
34	104-5309	2	Ring-Retaining
35	94-6922	2	Bearing-Thrust
36	104-5339	1	Washer-Flat
37	104-5340	1	Ring-Retaining
38	132-0912	1	Gear-12T
39	106-8683	1	Shaft-Motor
40	104-5360	1	Washer
41	94-1933	2	Washer
42	132-0911	1	Gear-49T
43	104-5318	1	Gear-Jackshaft, 10T
44	104-5329	1	Pin-Jackshaft
45	112-9854	1	Ring-Spiral, Retaining
46	112-9855	1	Gear-52T, Bull
47	112-9856	1	Washer
48	112-9857	1	Bearing-Sleeve
49	120-7104	1	Shaft-Axle
50	112-9859	1	Bushing-Axle
51	112-9860	1	Seal-Lip
52	106-8686	1	Seal Kit
53	106-8687	1	Expansion Plate Kit
54	135-7349	1	Fan And Pulley Kit
54:1	116-9714	1	Nut-HJ
54:2	116-9708	1	Washer-Slotted
54:4	135-7364	1	Fan 7.0 X 10 Blade
55	106-8688	1	Brake Arm Kit
57	112-9862	1	Center Section Filter Kit
59	107-2489	1	Bypass Arm Kit
61	114-1634	1	Filter Kit
98	120-7109	1	Tube-Axle
100	106-8694	1	Disc-Brake, Cog
101	115-5057	1	Cover-Nut, Axle
124	109-5939	1	Hub Kit
138	112-9866	1	Breather Kit
139	114-1635	1	Breather ASM
200	117-5362	1	Control Arm Kit
209	114-8467	1	Puller-Hub, 4 Bolt

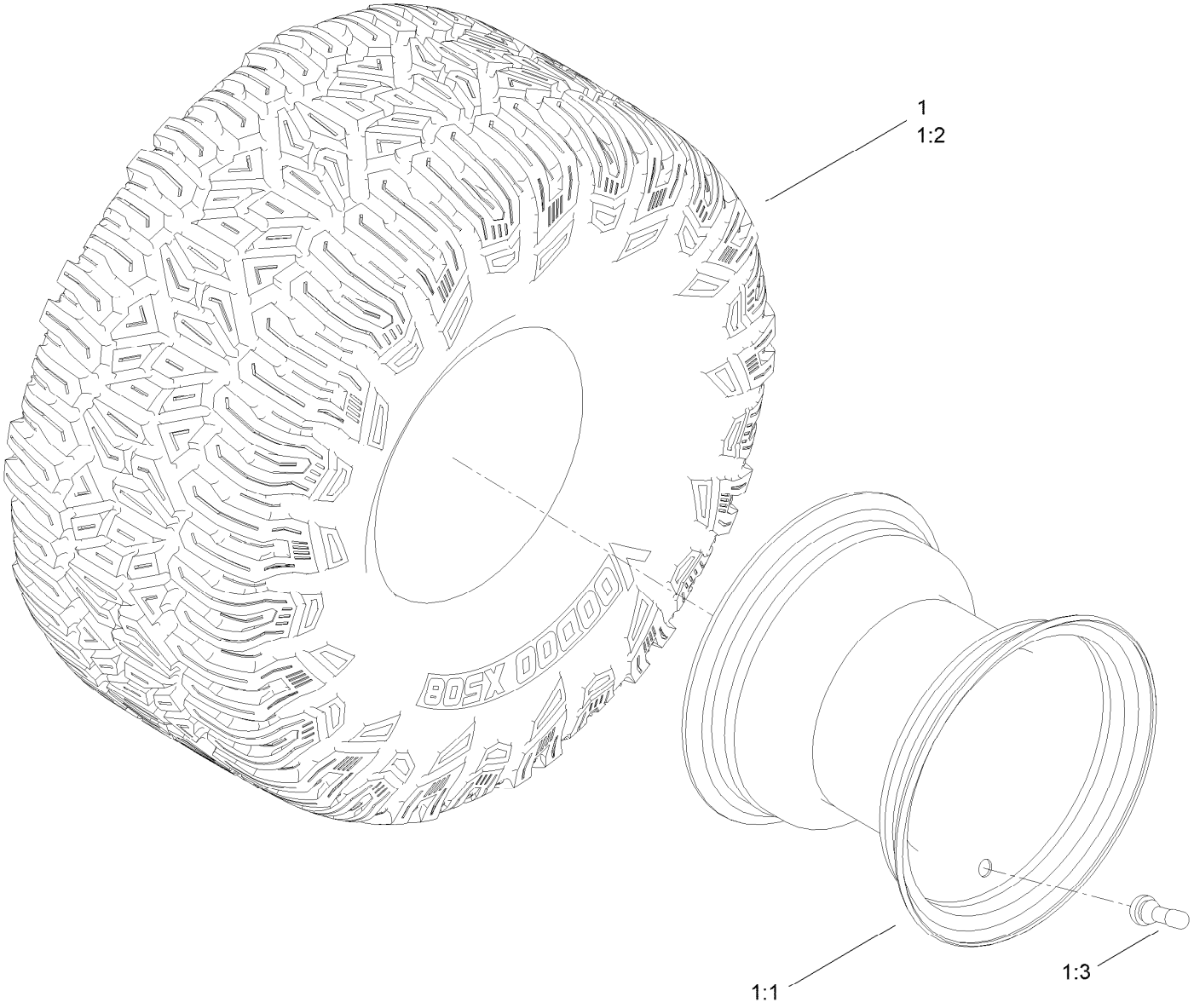
Brake Assembly



Brake Assembly (continued)

Ref.	Part Number	Qty.	Description
1	161-6420	2	Bellcrank
2	145-6364	2	Bolt-Shoulder
3	145-4607	1	Link-Brake, LH
4	145-6238	1	Link-Brake, RH
5	119-8952	4	Washer-Spcl
6	120-9716	2	Pin-Cotter
7	144-1816	1	Clip-Rod, LH (7L, 1/4In)
8	144-1815	1	Clip-Rod, RH (7R, 1/4In)
9	144-1860	1	Rod-Brake, LH
10	144-1851	1	Rod-Brake, RH
11	117-1169	4	Spring-Compression
12	3296-42	2	Nut-Lock, NI

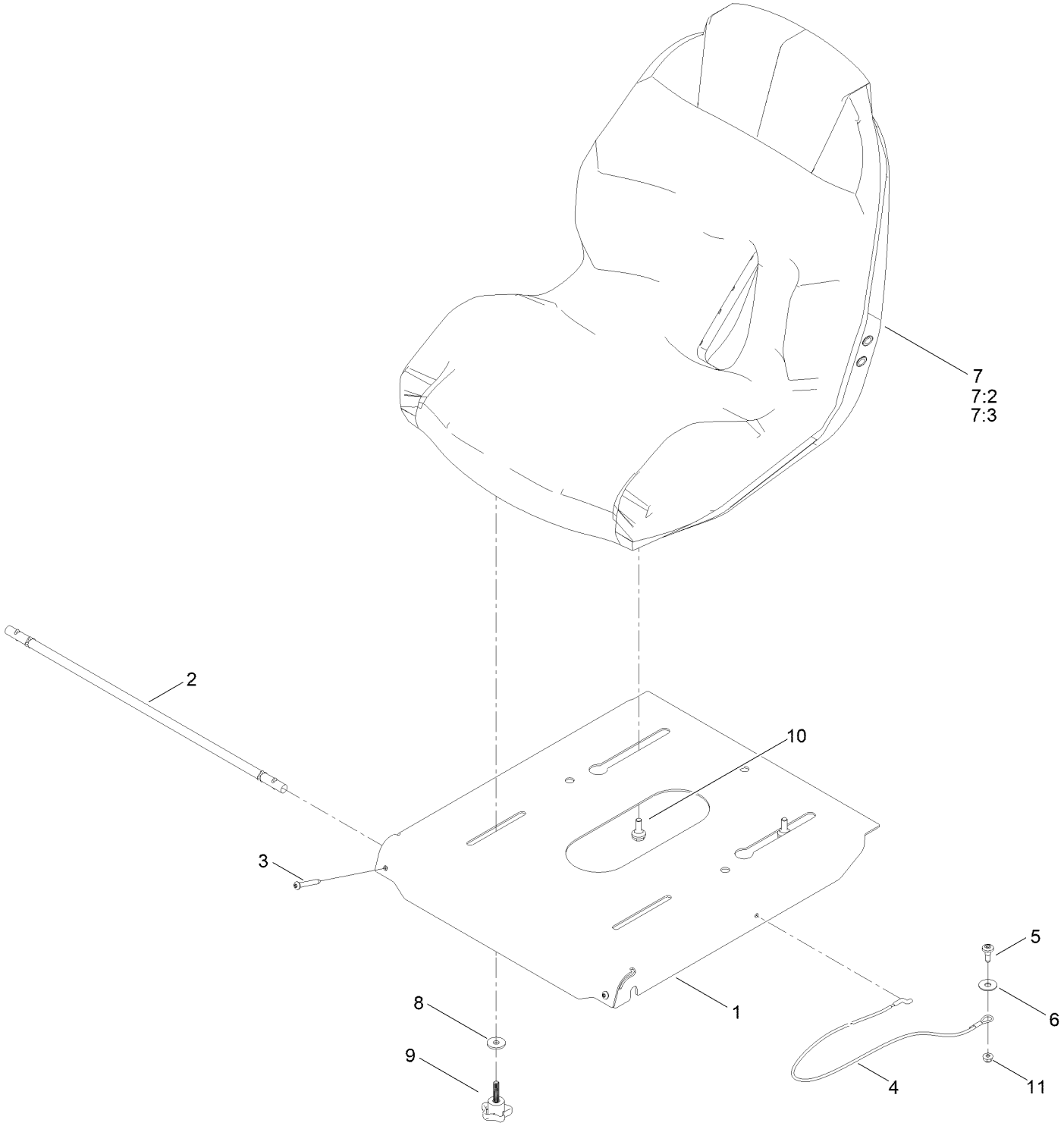
Tire Assembly



Tire Assembly (continued)

Ref.	Part Number	Qty.	Description
1	145-6391	2	Tire ASM
1:1	147-5180	1	Rim
1:2	147-5179	1	Tire
1:3	232-27	1	Stem-Valve

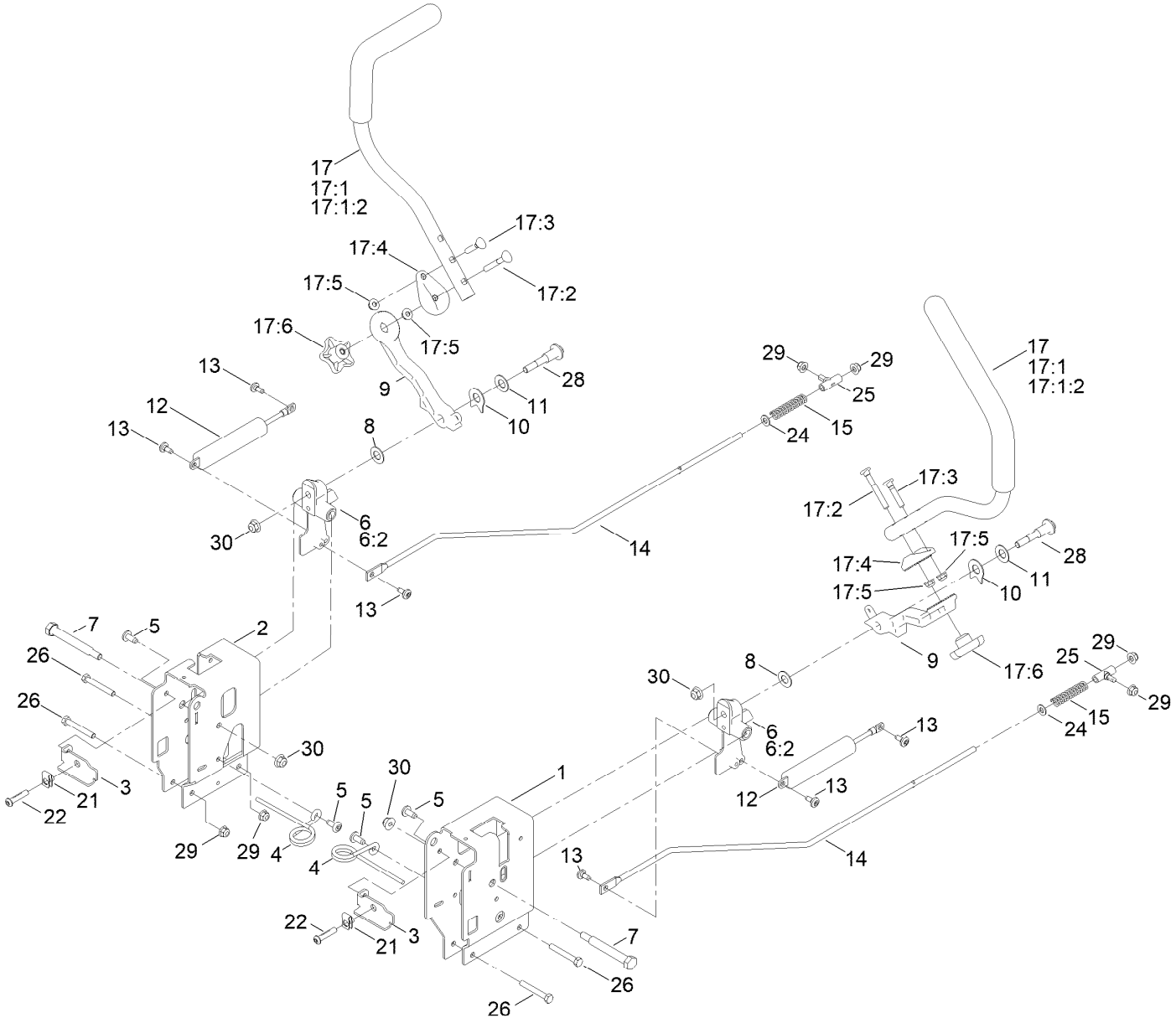
Seat Pan Assembly



Seat Pan Assembly (continued)

Ref.	Part Number	Qty.	Description
1	147-3002-03	1	Pan-Seat
2	147-5169	1	Rod-Pivot
3	147-5175	2	Screw-Tbh,Thd Roll
4	161-4452	1	Cable-Lanyard, 26.75In
5	135-2015	1	Screw-Shoulder
6	147-5287	1	Washer-Flat
7	147-8732	1	Seat ASM - Seat King Sk130
7:2	147-8752	1	Cover-Seat
7:3	82-2190	1	Switch-Bail
8	1-603716	2	Washer-Friction
9	139-2401	2	Knob
10	147-5174	2	Bolt-Shoulder,Hfh
11	119-4040	1	Nut-HF, NI

Motion Control Assembly

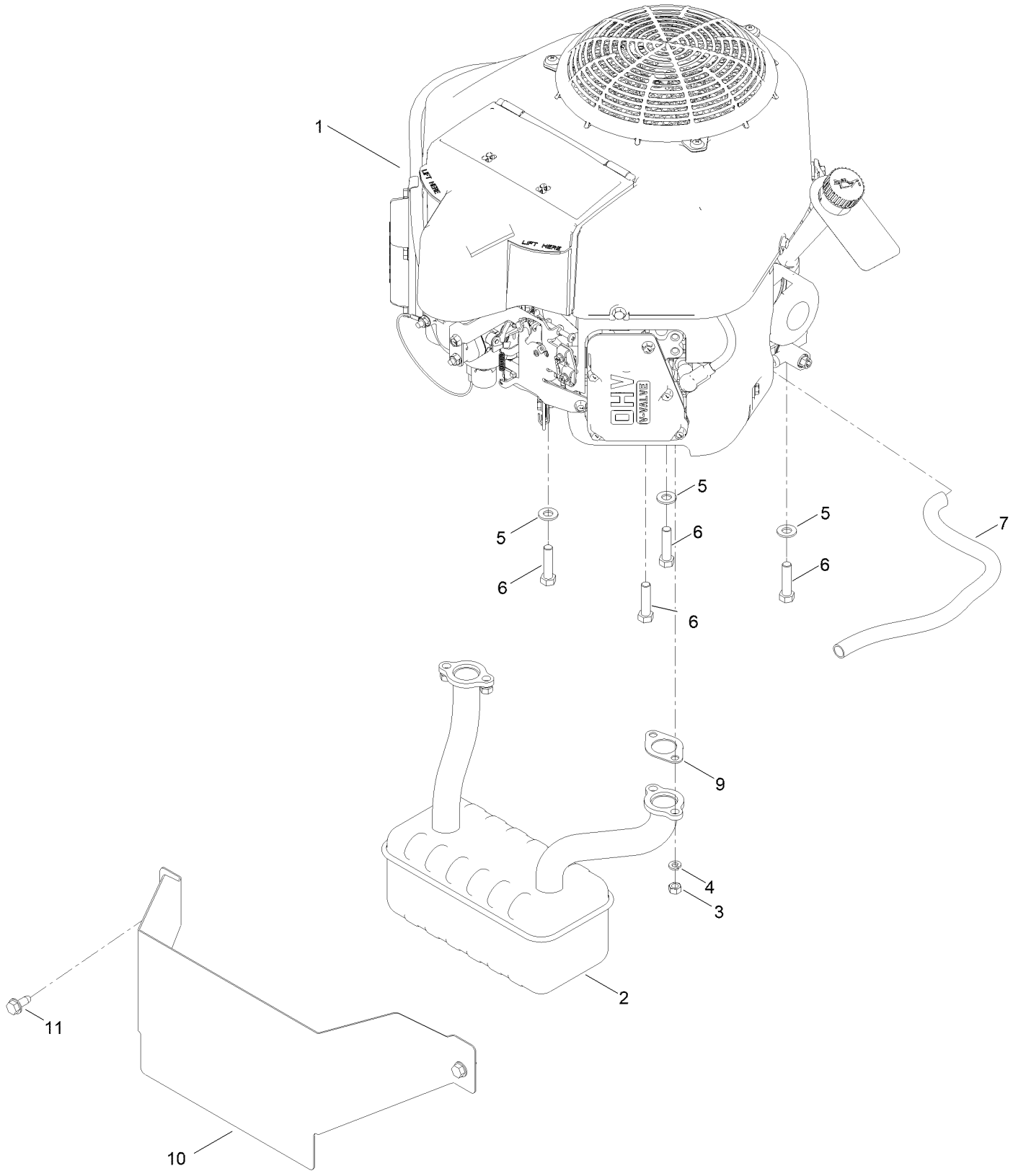


Motion Control Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-5941-03	1	Control Box - LH
2	163-5942-03	1	Control Box - RH
3	147-7580-03	2	Adjustment Plate-Control Box
4	145-6253	2	Spring-Torsion
5	138-9753	4	Screw
6	145-4648	2	Pivot Arm ASM
6:2	256-156	2	Bushing-Flange
7	115-5099	2	Bolt-Pivot
8	120-2273	2	Washer-Flat
9	147-5191-05	2	Arm-Control, 32 Teeth
10	142-8478	2	Spacer, Anti-Rotation
11	119-8925	2	Washer-Belleville
12	161-6514	2	Damper-Non Cavitating
13	120-7950	6	Screw-Torx
14	145-4699	2	Rod - Hydro, LH
15	138-7252	2	Spring-Compression
17	161-6523	2	Handle-Control, ASM
17:1		1	Handle-Control, ●
17:1:2	147-3029	1	Grip
17:2	145-6366	1	Screw-Handle
17:3	137-3008	1	Screw-Handle
17:4	147-5192-05	1	Disc-Adjustment Handle, 32 Teeth
17:5	138-8401	2	Nut-HF
17:6	117-5976	1	Knob-Handle
21	112-3306	2	Nut
22	126-4299	2	Screw-HSBH
24	120-9683	2	Washer-Plain
25	138-7218	2	Mount-Rod, Hydro
26	322-11	4	Screw-HH
28	117-1198	2	Bolt-Pivot
29	104-8300	8	Nut-HF, NI
30	104-8301	4	Nut-HF, NI

● Not serviced separately

Engine and Muffler Assembly



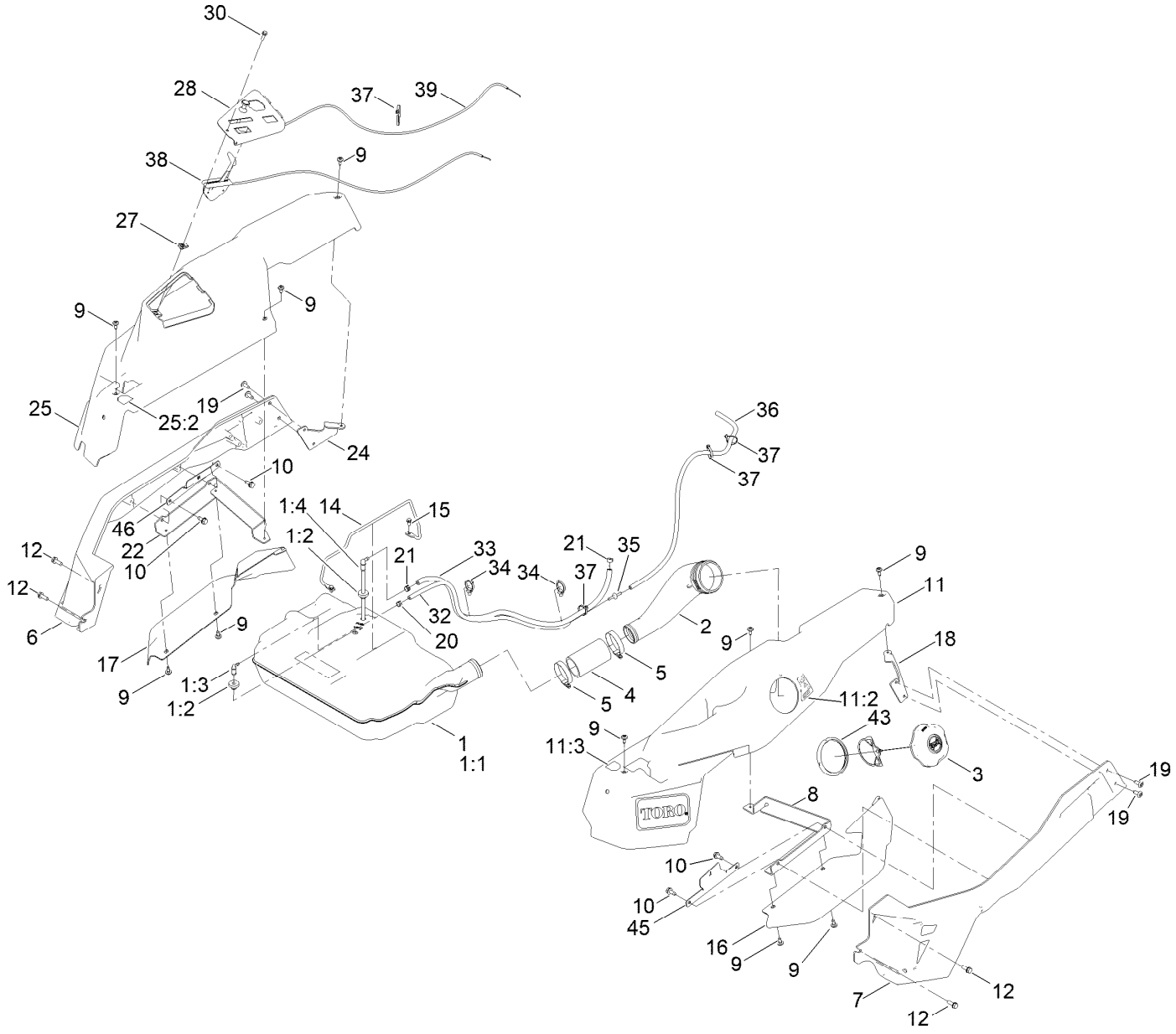
Engine and Muffler Assembly (continued)

Ref.	Part Number	Qty.	Description
1		1	Engine-Kawasaki, Fr691V-_s07-R ●■
2	139-5867	1	Muffler
3	114-3549	4	Nut
4	114-3550	4	Washer-Lock
5	3256-24	3	Washer-Plain
6	323-50	4	Bolt-HH
7	106-7022	1	Tube-Drain, Oil
9	1-653313	2	Gasket-Exhaust
10	161-6649-03	1	Heat Shield - Muffler
11	32144-70	2	Screw-HWHTF

● Not serviced separately

■ Obtain parts from www.kawpower.com

Fuel Pod Assembly

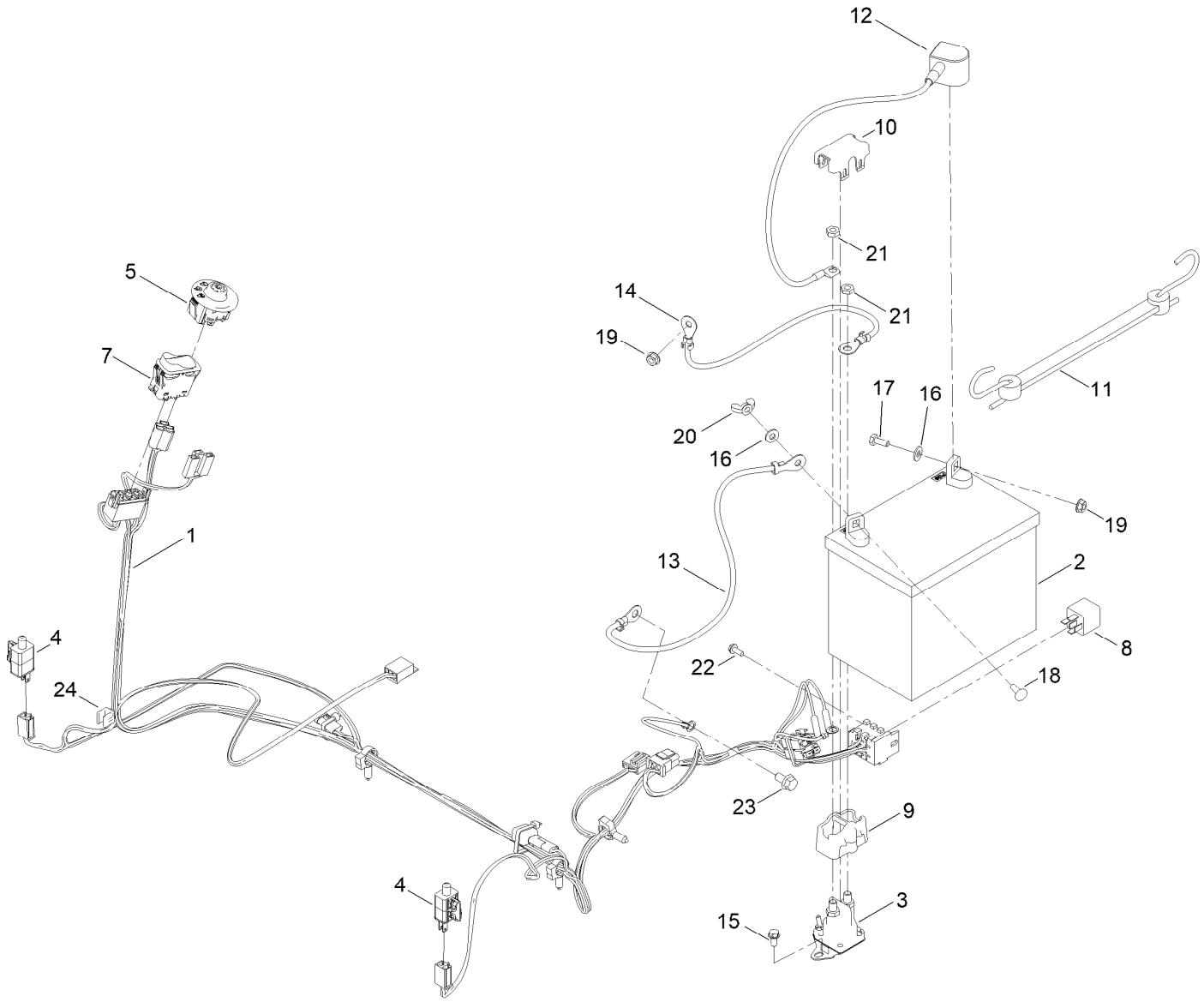


Fuel Pod Assembly (continued)

Ref.	Part Number	Qty.	Description
1	161-6588	1	Fuel Tank ASM
1:1		1	Tank-Fuel ●
1:2	46-6560	2	Bushing
1:3	161-6609	1	Fitting-Elbow 90
1:4	147-2934	1	Fitting-Pickup, Fuel
2	147-2852	1	Neck-Filler, Fuel
3	137-4119	1	Cap-Fuel, Ratcheting
4	145-4698	1	Hose-Filler, Fuel
5	2412-130	2	Clamp-Hose
6	147-2973-01	1	Cast-Tube, RH
7	147-2972-01	1	Cast-Tube, LH
8	147-2974-03	1	Mount-Pod Bracket LH
9	120-7950	10	Screw-Torx
10	32144-70	4	Screw-HWHTF
11	147-8741	1	Pod ASM - LH W/Decals
11:2	139-2395	1	Decal-Control Lever, LH
11:3	147-2399	1	Decal-Fuel Fill
12	32144-41	4	Screw-Taptite
14	147-5176	1	Rod-Hold Down
15	32144-4	2	Screw-HWH
16	147-2978	1	Fender-Time Cutter, LH
17	147-2979	1	Fender-Time Cutter, RH
18	147-2976-03	1	Bracket-Rear Pod, LH
19	138-9753	4	Screw
20	2412-80	1	Clamp-Hose
21	2412-98	2	Clamp-Hose
22	147-2975-03	1	Mount-Pod Bracket RH
24	147-2977-03	1	Mount-Pod Bracket RH
25	147-8742	1	Pod ASM - RH W/Decals
25:2	139-2394	1	Decal-Control Lever, RH
27	107069	1	Clip
28	147-2990-03	1	Panel-Control
30	32105-15	1	Screw-HWH
32	140-4956	1	Hose-Fuel
33	109-0275	1	Hose-Fuel
34	32180-030	2	Clip-Tie
35	144-1983	1	Adapter Orifice
36	108-6344	1	Hose-Fuel
37	614249	4	Tie-Cable
38	147-7695	1	Cable-Throttle
39	139-2402	1	Cable-Choke
43	147-7712	1	Ring-Retaining
45	161-4609-03	1	Bracket-Alignment, Pod LH
46	161-4610-03	1	Bracket- Alignment, Pod RH

● Not serviced separately

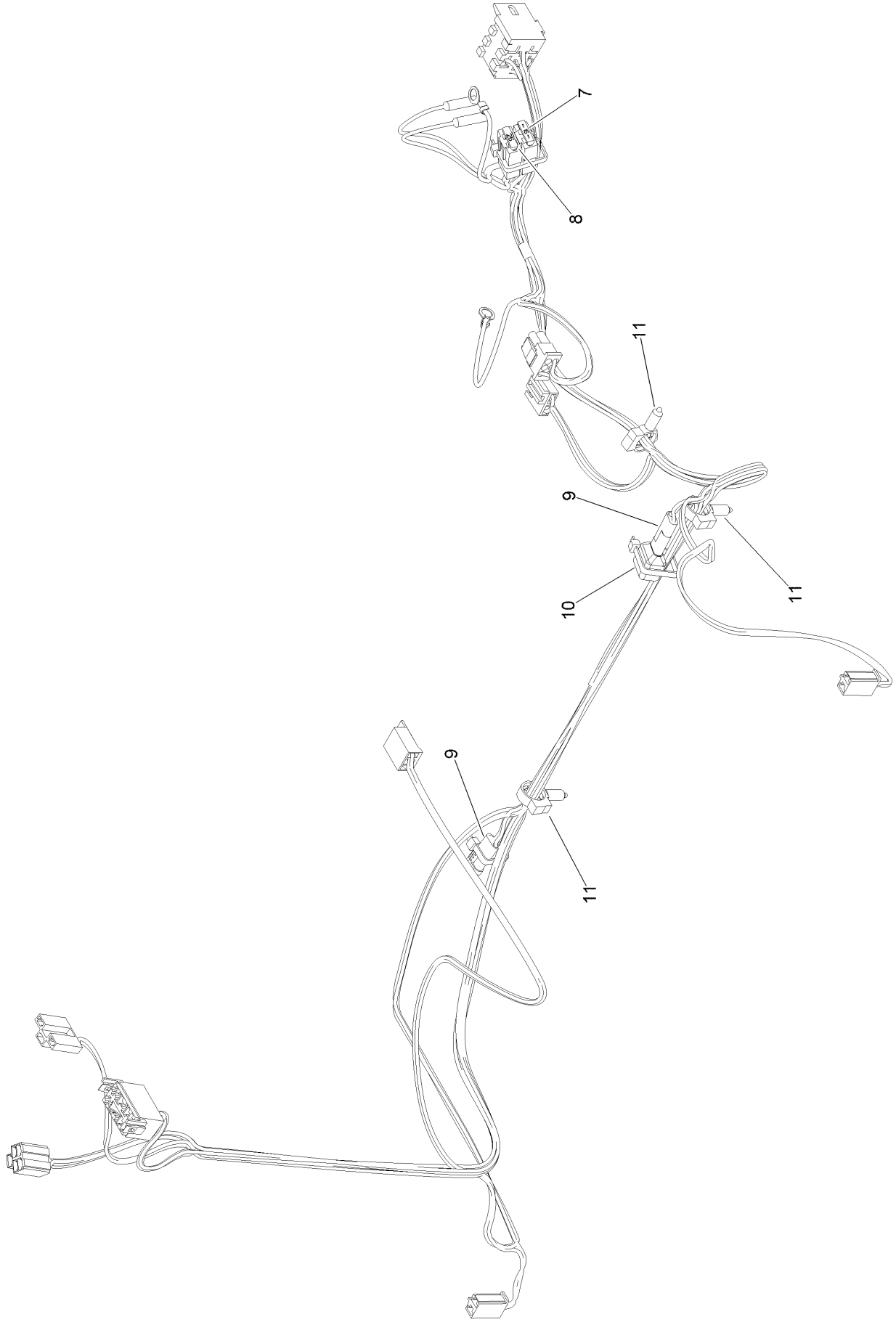
Electrical Assembly



Electrical Assembly (continued)

Ref.	Part Number	Qty.	Description
1	145-6382	1	Harness-Wire, Main
2	140-2076	1	Battery - Wet
3	117-1197	1	Solenoid
4	110-6765	2	Switch
5	137-4100	1	Switch-Ignition
7	139-6368	1	Switch-Rocker, On-None-On
8	1-643275	1	Relay
9	140-2080	1	Cover-Solenoid
10	140-2081	1	Cap-Solenoid
11	104-2466	1	Holddown-Battery
12	147-2941	1	Cable-Battery,Red
13	119-8899	1	Cable-Battery, Black
14	121-0711	1	Cable-Battery, Positive
15	32144-4	2	Screw-HWH
16	3256-22	2	Washer-Flat
17	321-3	1	Screw-HH
18	3229-1	1	Screw-CARR
19	32128-33	2	Nut-HF
20	32103-22	1	Nut-Wing
21	3220-2	2	Nut-Hex Jam
22	139-1713	1	Screw-Thd Roll
23	33104-016	1	Screw-HHF
24	32180-082	1	Clip-Edge W/Tie, Perpendicular

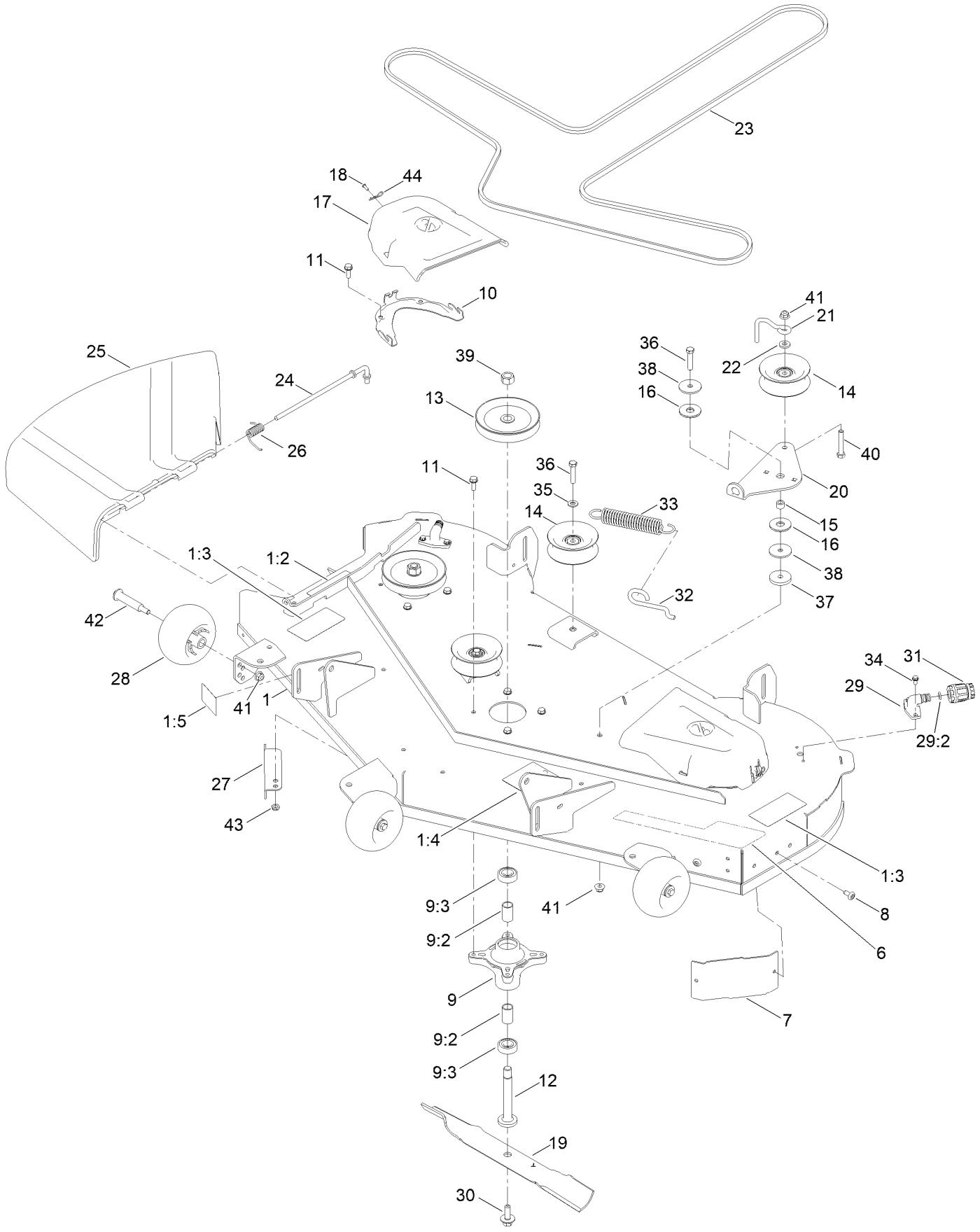
Main Wire Harness Assembly No. 145-6382



Main Wire Harness Assembly No. 145-6382 (continued)

Ref.	Part Number	Qty.	Description
7	109355	1	Fuse-Blade, 15 Amp
8	109102	1	Fuse-Blade, 25 Amp
9	32160-029	1	Connector-Molded, 1F,1M
10	100-4918	1	Diode
11	32180-047	3	Clip-Tubing, Harness

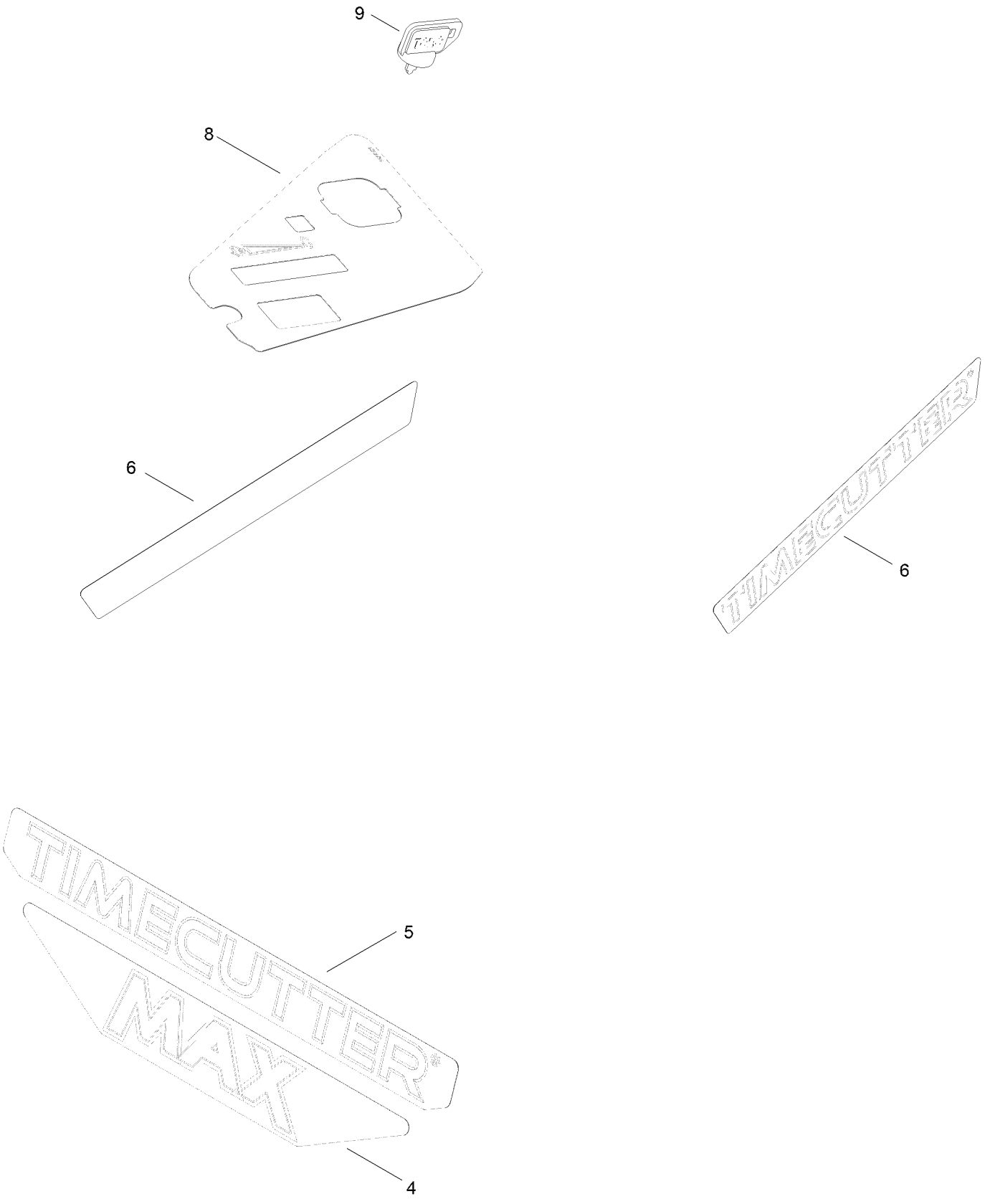
54in Deck Assembly



54in Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
1	147-8746	1	54 In Deck & Decal ASM
1:2	130-0731	1	Decal-Danger
1:3	132-0872	2	Decal-Danger, Deck
1:4	99-3943	1	Decal-Routing, Belt
1:5	112-9840	1	Decal-Scalp, Anti
6	147-7563	1	Decal - Iron Forged 54
7	139-2448-03	1	Baffle-Corner
8	138-9753	2	Screw
9	139-3214	3	Spindle ASM
9:2	120-7935	2	Spacer
9:3	138-9770	2	Bearing-Ball
10	139-3272-03	2	Bracket-Cover, Belt
11	32144-41	12	Screw-Taptite
12	117-7268	3	Shaft-Spindle
13	138-7261	3	Pulley ASM
14	132-9420	3	Pulley-Idler, Flat
15	115-4986	1	Spacer
16	114-0463	2	Washer-Friction, Composite
17	144-1906	2	Cover-Belt
18	94-6961	2	Screw
19	115-2454-03	3	Blade-Hi Lift
20	138-7262	1	Arm-Idler (Mty/Wdm)
21	138-7270	1	Guide-Belt, Idler
22	138-7207	1	Spacer-Hub, Blower
23	147-2910	1	Belt-V (A Sec, 145.5 El)
24	137-2019	1	Rod-Pivot
25	138-7502	1	Deflector-Discharge
26	138-7268	1	Spring-Torsion
27	138-9800-03	1	Baffle-Cutoff
28	1-603299	3	Roller-Scalp, Anti
29	133-9289	2	Fitting-Washout
29:2	133-9290	1	O-Ring
30	145-0411	3	Bolt-Blade, Sems
31	95-3270	1	Connector-Hose
32	138-7266	1	Spring-Return, Hook
33	138-7264	1	Spring-Extension
34	32144-4	4	Screw-HWH
35	3256-24	2	Washer-Plain
36	323-9	3	Screw-HH
37	110-9981	1	Washer-Plain
38	63-7400	2	Washer-Rebound
39	3219-6	3	Nut-Hex
40	323-11	1	Screw-HH
41	104-8301	5	Nut-HF, NI
42	112-3977	3	Bolt-Shoulder
43	3296-59	1	Nut-Lock, NI
44	144-1944	2	Pin-Hair

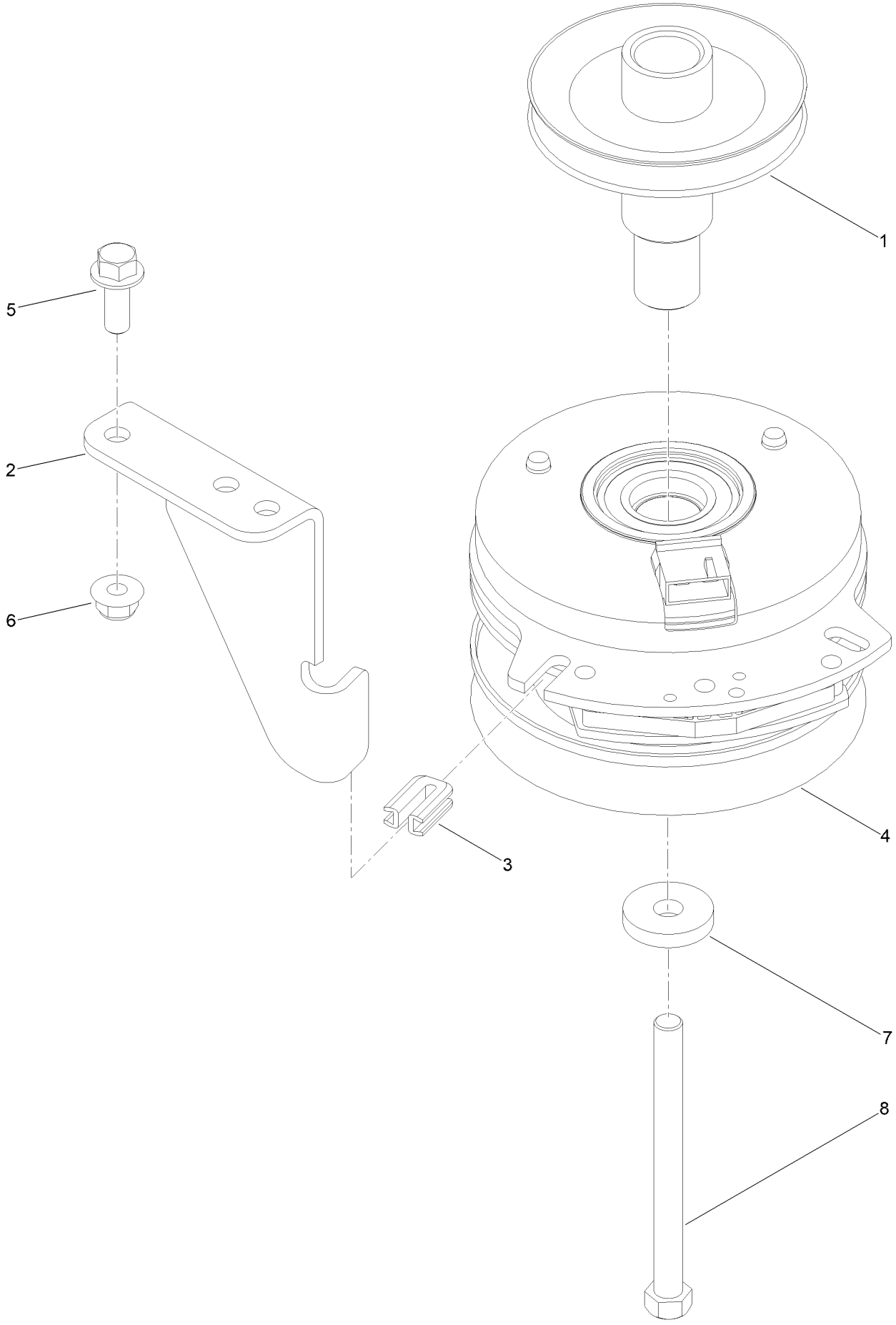
Model Specific Assembly



Model Specific Assembly (continued)

Ref.	Part Number	Qty.	Description
4	147-7573	1	Decal-Max
5	147-7561	1	Decal-Timecutter
6	147-7560	2	Decal-Timecutter
8	147-8753	1	Decal - Control Panel W/Out Hour Meter
9	63-8360	1	Key-Ignition

Clutch Assembly



Clutch Assembly (continued)

Ref.	Part Number	Qty.	Description
1	138-9792	1	Pulley-Engine
2	137-7000	1	Stop-Clutch (Wide)
3	120-2217	1	Isolator-Clutch
4	127-3410	1	Clutch-PTO
5	3234-42	1	Screw-HHF
6	104-8301	1	Nut-HF, NI
7	112843	1	Washer
8	3212-19	1	Screw-HH

Attachments and Accessories

For 77504 — TimeCutter Max 54in Zero Turn Riding Mower

Product Name	Model/Part
Blade-Hi Lift, 18.75 Inch For 54 Inch TC	115-2454-03P
Jack Kit	127-6666
4-Cycle Fuel, Snow And Lawn 32oz Can	131-3823
Toro Premium Fuel Treatment 12oz Bottle	131-6572
Oil-30/10W-30 Synthetic (Quart)	138-6053
Led Light Kit	147-8757
Floormat Kit	147-8765
Kit-Caster Wheel	147-8772
Arm Rest Kit	147-8774
Hour Meter Kit	147-8791
Mower Cover	148-0276
Jack Mount	148-1283
Bagging Enhancement Kit	148-1288
54in Recycler Kit	148-1293
48/54/60 Striping Kit	148-1367
Assist Bar Kit	161-4450
Transport Lock Kit	161-4510
10W30 4-Cycle Engine Oil (32oz Bottle)	38280
Toro 4-Cycle SAE 30 Oil (32oz Bottle)	38903
Toro Deluxe Rider Cover	490-7319
Belt - Deck 54 TC [PKGD 23+]	79007
ROPS Kit	79487
Slope Sensor Kit	79489
Residential Z Max 50in Bagger	79501

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Count on it.