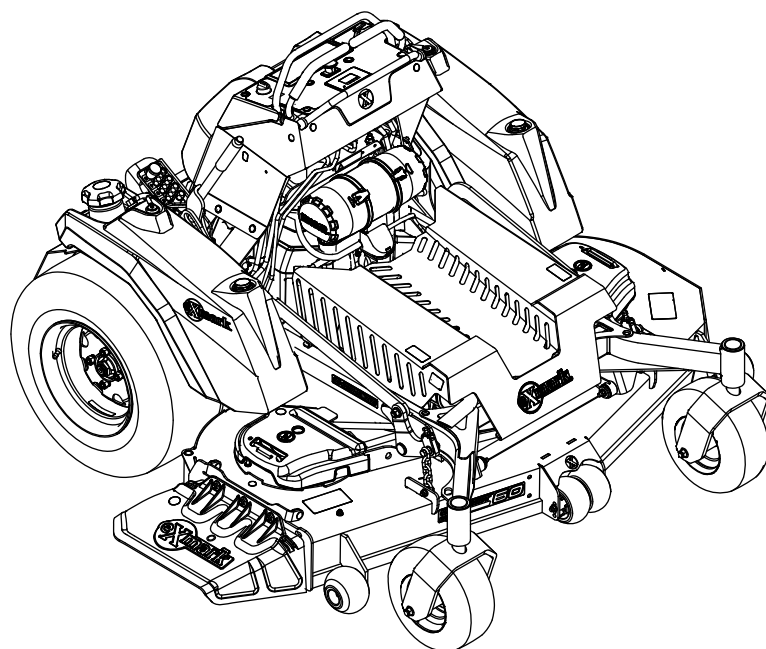




STARIS® S-SERIES

Model No. STS651GKA48400—Serial No. 406294345 and Up

Picture below may not reflect actual product.



Parts Manual

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.

Touch Up Paint

Exmark black touch up spray paint – gloss black.

Exmark red touch up paint (spray paint – P/N 1-850337 - .6 oz liquid bottle – P/N 103-9140).

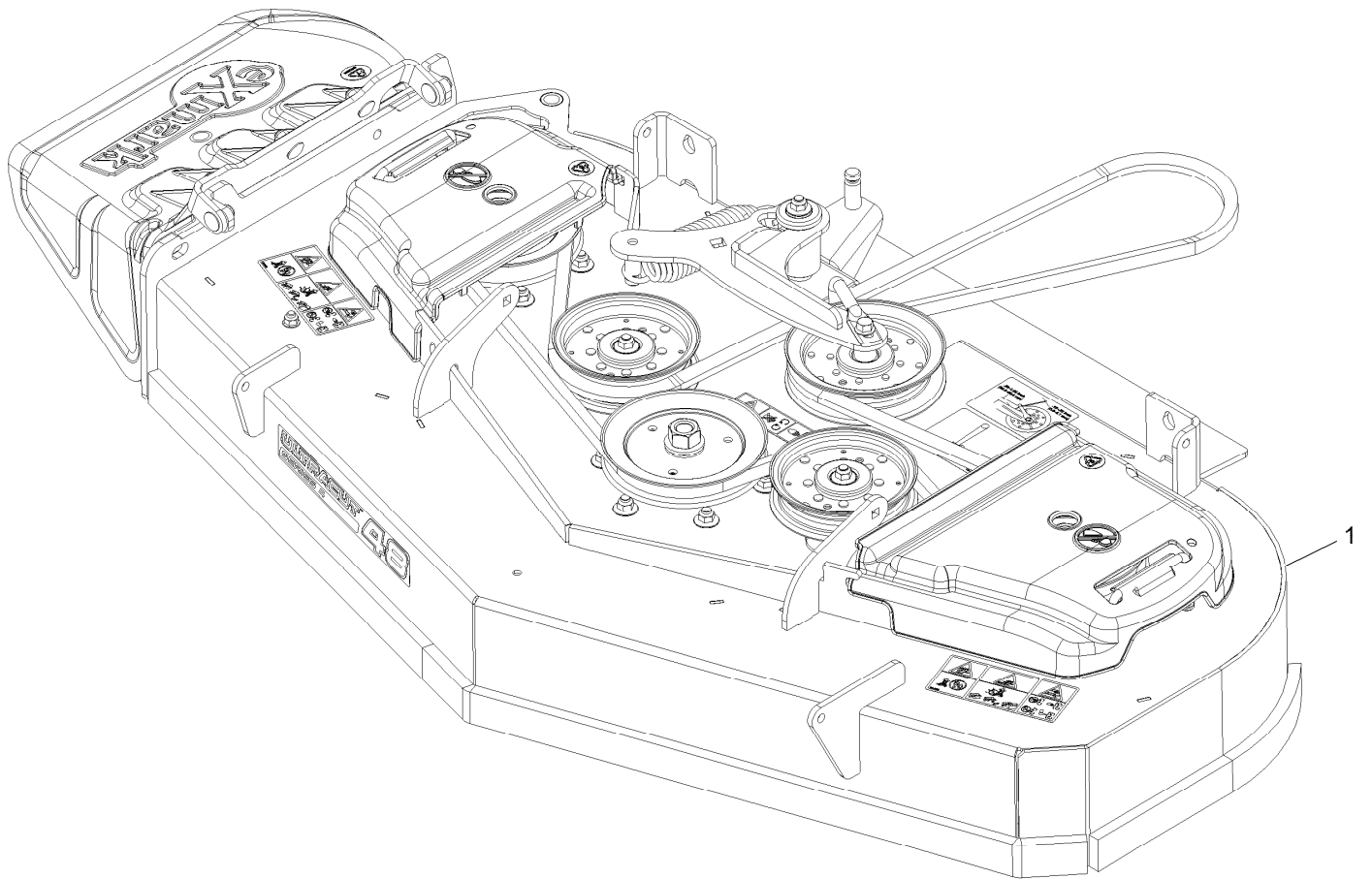


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

Contents

Complete Deck Assembly	4
Deck Assembly	6
Deck W/Decals Assembly	8
Idler Arm Assembly	10
Main Frame Assembly	12
Controls Assembly	14
Deck Lift Assembly	16
Deck Strut Assembly	18
Height of Cut Lever Assembly	20
Platform Assembly	22
Guarding Assembly	24
Drive Wheel Assembly	26
Caster Wheel Assembly	28
Park Brake Assembly	30
Fuel Assembly	32
Left and Right Fuel Tank Assembly	34
Left Fuel Line Assembly	36
Right Fuel Line Assembly	38
Fuel Line Assembly	40
Engine Assembly	42
Hydraulic Assembly	44
Idler Arm Assembly	46
Electrical Assembly	48
Harness Assembly	50

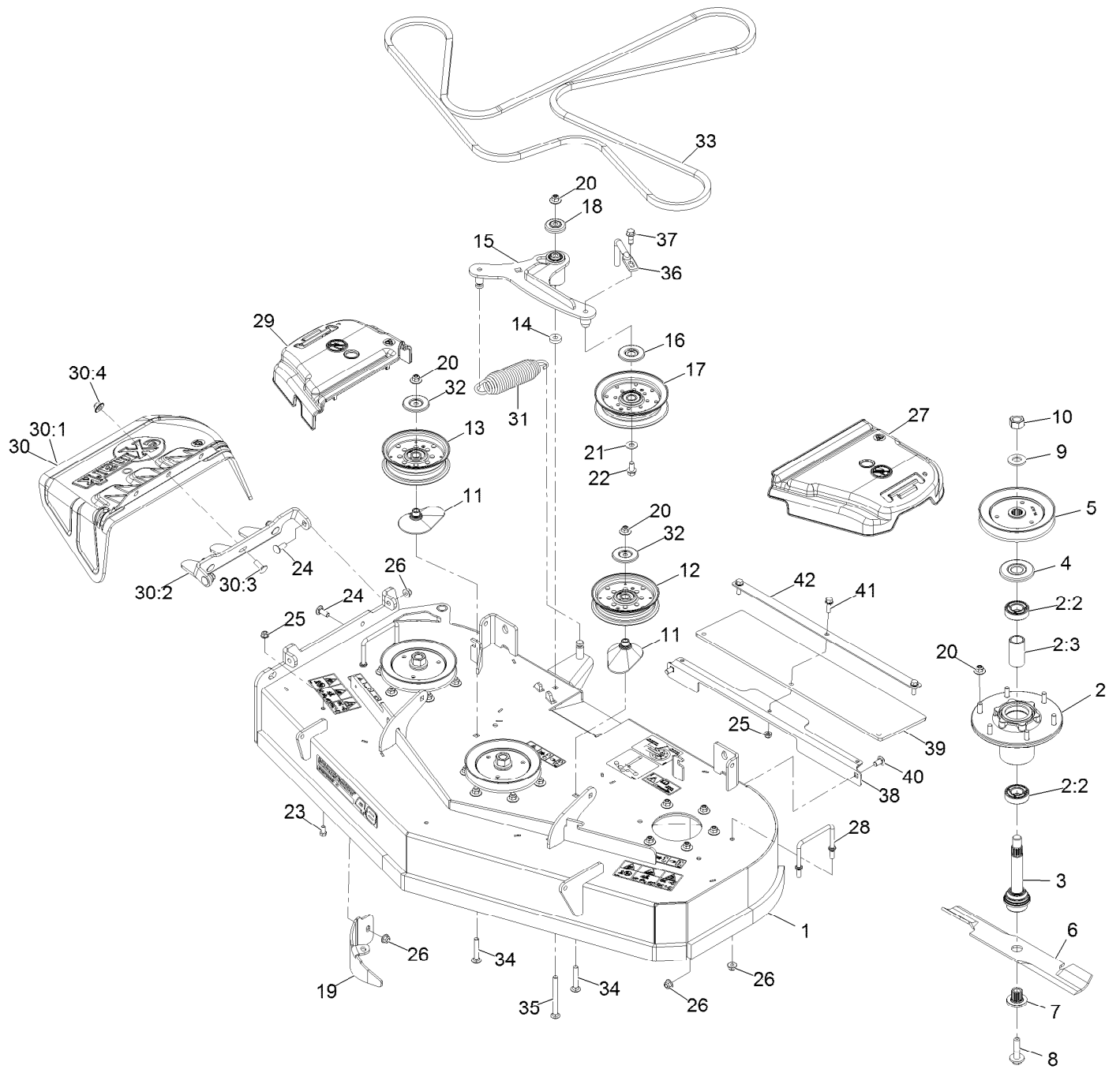
Complete Deck Assembly



Complete Deck Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-6668	1	ASM, Complete Deck, 484

Deck Assembly



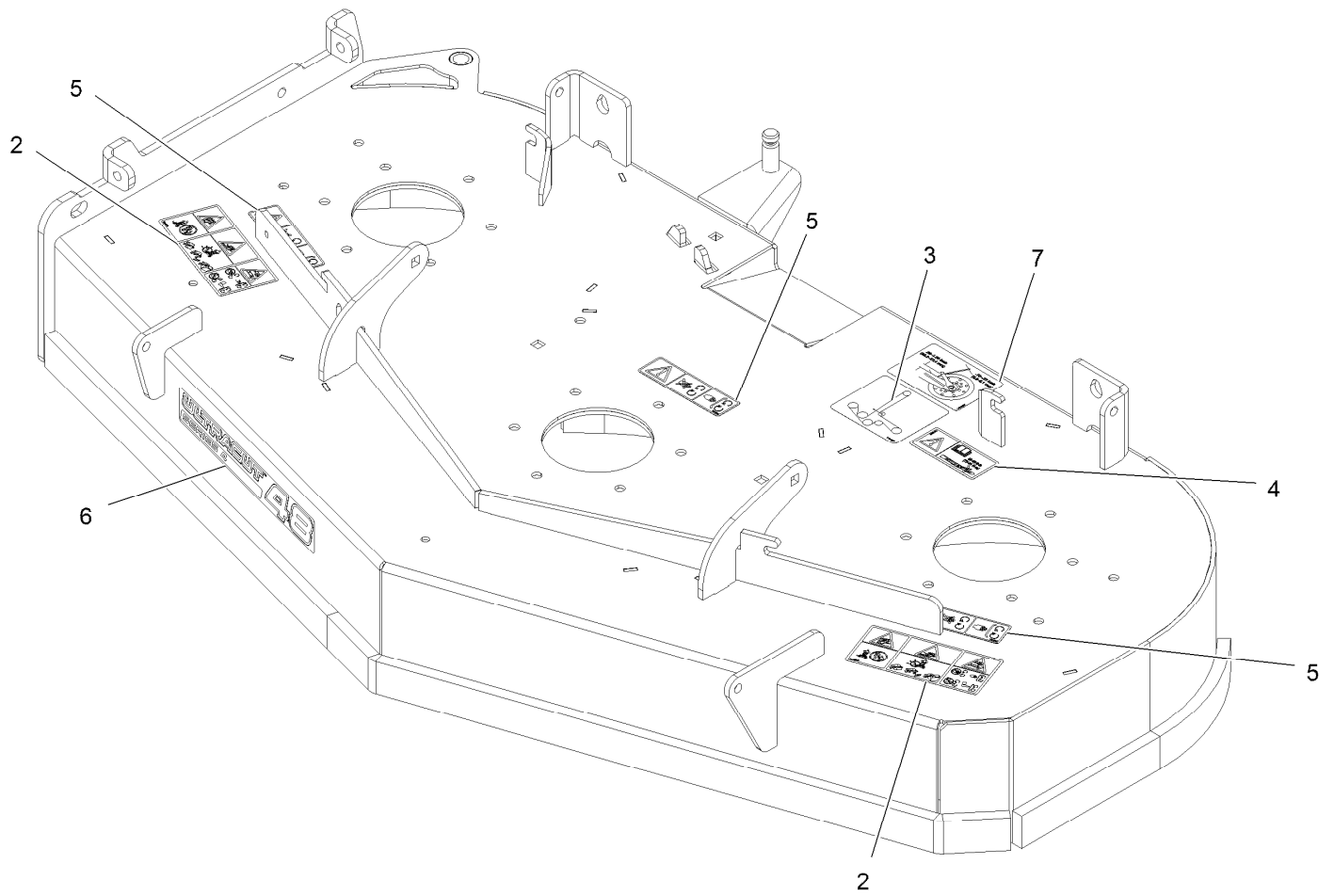
Deck Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-1996	1	ASM, Deck W/ Decals, 48"	21	3256-4	1	Washer-3/8 Std
2	116-3344	3	ASM-Cutter Hsg With Bearings	22	110-1718	1	Screw-Hex Flange 3/8-16 X 3/4
2:2	116-0720	2	Bearing-Ball	23	322-2	1	Screw-HH 5/16-18 X 5/8
2:3	116-3312	1	Spacer-Bearing	24	3231-22	3	Bolt-Carriage 3/8-16 X 1
3	116-3341	3	ASM-Spindle And Seal	25	104-8300	4	Nut-Nyloc 5/16-18 Flg
4	116-1286	3	Guard,Bearing Top .989	26	104-8301	9	Nut-Nyloc 3/8-16 Flg
5	116-0674	3	Sheave,Blade Drive 5.90	27	109-6936	1	Cover-Belt, LH
6	103-6391	3	Blade, Mulching ■	28	109-6982	2	Wireform-Cover
6	103-6386	3	Blade, Low Lift ●	29	109-6935	1	Cover-Belt, RH
6	103-6381	3	Blade, Solid ●	30	109-7188	1	ASM,Discharge Chute
6	103-6401	3	Blade-Notched	30:1	109-2738	1	Chute, Discharge
6	116-5177	3	Blade-Extreme 2, 16.25" ●	30:2	109-8675-01	1	Bracket,Discharge Chute
7	103-3037	3	Bushing, Splined	30:3	3231-22	3	Bolt-Carriage 3/8-16 X 1
8	109-9220	3	Screw-Sems 1/2-20 X 2.19	30:4	109-6658	3	Nut-Nyloc 3/8-16 Flg
9	103-2802	3	Washer-Spring Disc 3/4	31	116-6317	1	Spring-Extension
10	116-7306	3	Nut-Hex	32	126-8043	2	Shield-Dust
11	109-2872	2	Spacer-Pulley	33	135-1998	1	Belt, 5V
12	126-9187	1	Pulley-Idler, Flat	34	3231-7	2	Bolt-Carriage 3/8-16 X 2 1/4
13	126-9197	1	Idler-Pulley, Flat 5.00X1.31	35	3231-37	1	Bolt-Carriage 3/8-16 X 4
14	62-6660	1	Spacer	36	135-5023	1	Guide, Belt
15	135-1937	1	ASM, Deck Idler	37	126-1680	1	Screw-Hfh
16	126-9195	1	Shield-Guard, Dust	38	135-6287-03	1	Brkt, Heat Deflector
17	126-9196	1	Idler-Pulley, Flat	39	135-6358	1	Shield, Heat
18	103-2916	1	Guard-Top	40	3231-21	2	Bolt-Carriage 3/8-16 X 3/4
19	116-5995-01	1	Baffle-Dogleg,Lzs Lzx Vt48	41	3234-29	3	Screw-HH Flg 5/16-18 X 1
20	109-6658	21	Nut-Nyloc 3/8-16 Flg	42	135-7122-03	1	Brkt-Heat Deflector, Top

● Optional Equipment

■ Requires installation of mulch kit for proper mulching. See your Exmark dealer for details.

Deck W/Decals Assembly

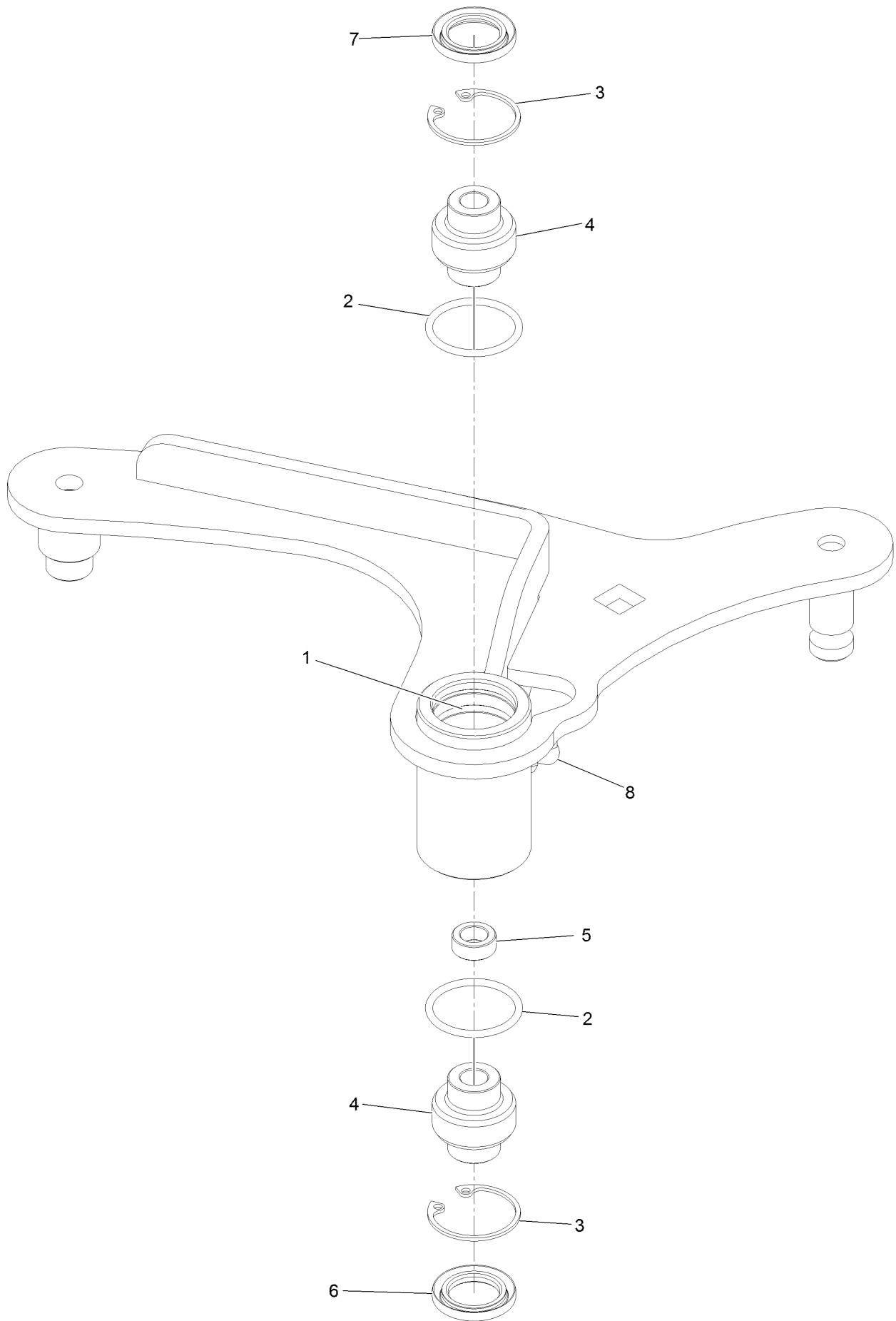


Deck W/Decals Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	135-5210	2	Decal-Warning Thrown Obj
3	116-8727	1	Decal-Belt Routing
4	116-8283	1	Decal-Torque, Bolt

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	112-9028	3	Decal-Cover, Missing
6	126-6587	1	Decal, 484
7	142-3157	1	Decal-Belt Guide Dist

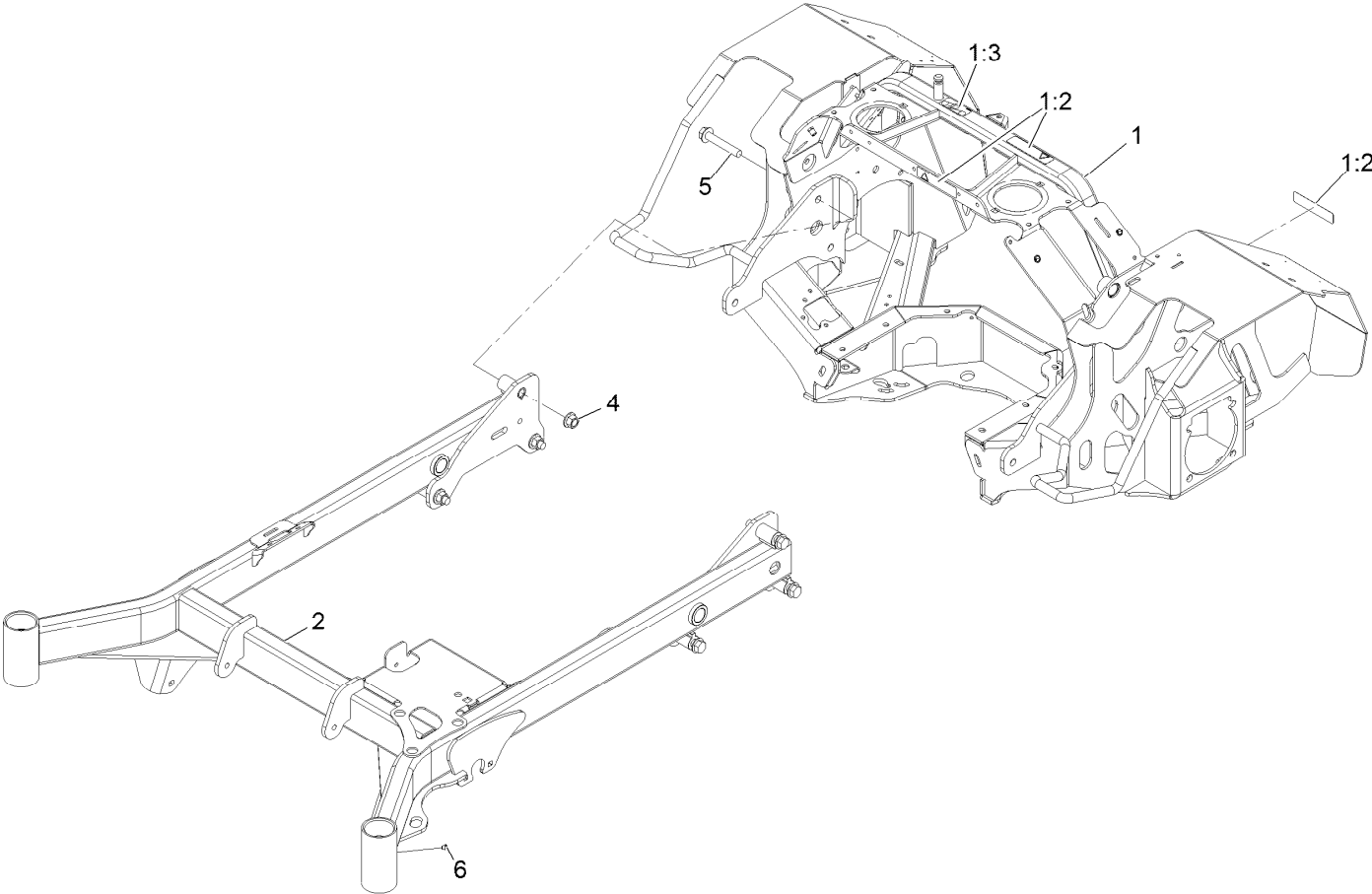
Idler Arm Assembly



Idler Arm Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-1936-03	1	Weld, Idler Arm	5	103-5677	1	Spacer
2	106-7159	2	O-Ring	6	103-3505	1	Seal-Lip, Double
3	32120-10	2	Ring-Retaining	7	103-3506	1	Seal-Single Lip
4	103-3504	2	Bearing-Spherical	8	302-40	1	Zerk-90° 1/4-28

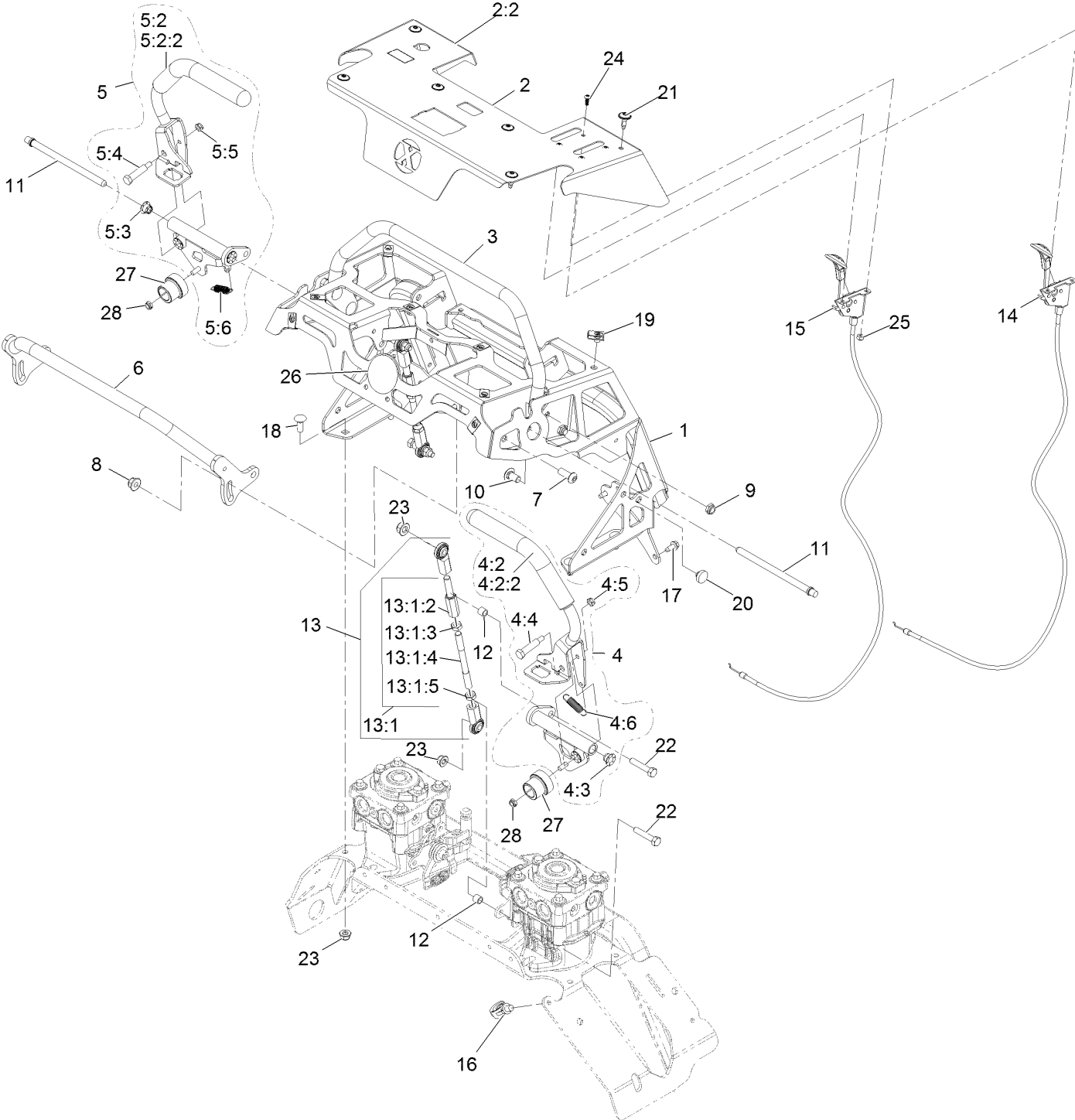
Main Frame Assembly



Main Frame Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	142-2409	1	ASM, Rear Frame W/ Decals	2	135-1176-01	1	Weld, Front Frame, 48/52
1:2	98-1977	3	Decal-Warning	4	99-5107	6	Nut-Lock 1/2-13
1:3	135-2267	1	Decal-Belt Routing HYD	5	3234-40	6	Screw-HF
				6	1-811010	2	Plug

Controls Assembly

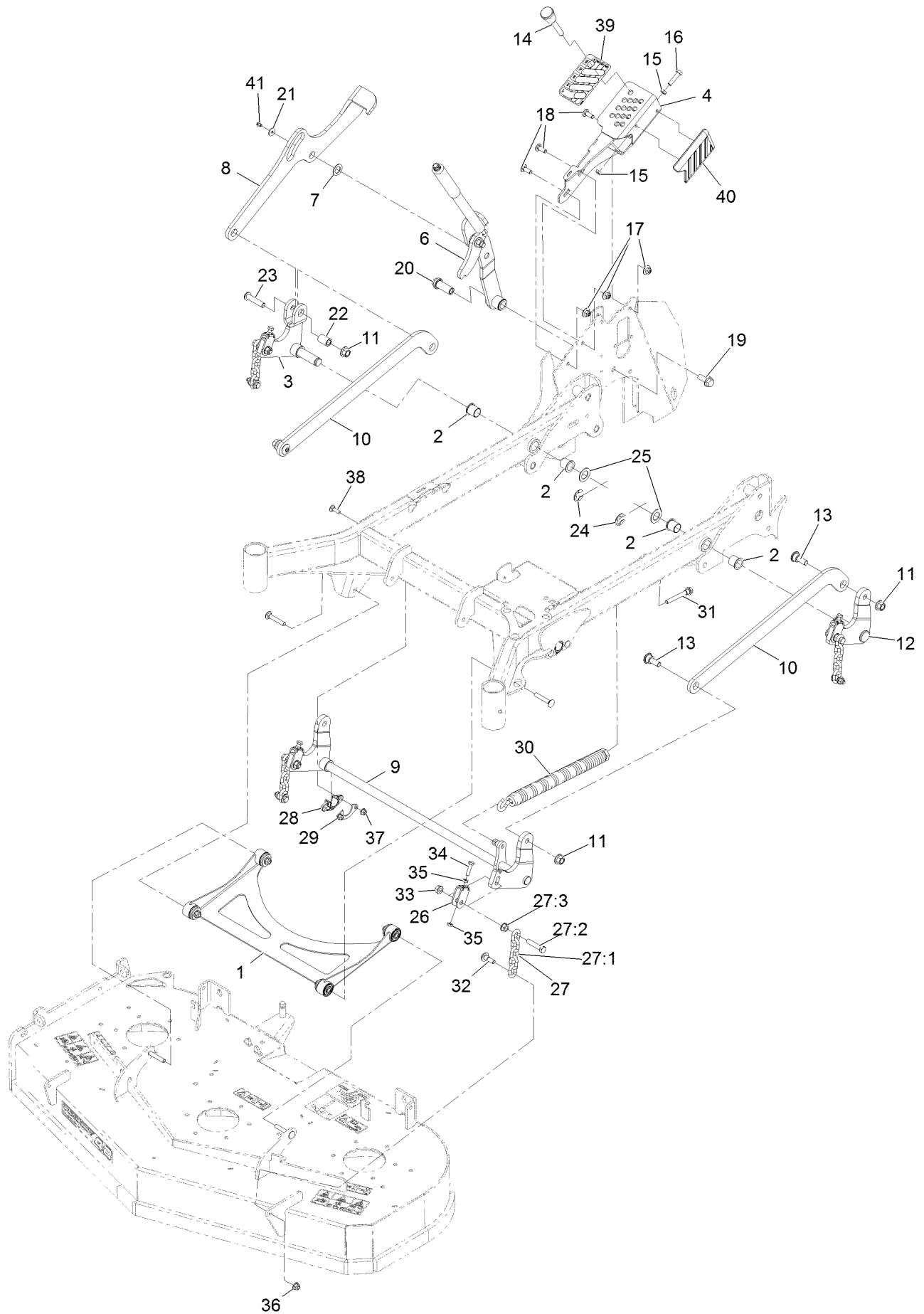


Controls Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4142	1	ASM, Control Tower W/ Decal	9	3296-59	4	Nut-Nyloc 3/8-16 Thin
2	135-2579	1	ASM, Control Panel W/ Decals	10	3231-21	4	Bolt-Carriage 3/8-16 X 3/4
2:2	135-6773	1	Decal-Control Panel Non-EFI	11	135-1277	2	Pin, Pivot
3	135-3430-03	1	Weld, Rear Ref Bar	12	1-633545	4	Spacer
4	135-1304	1	ASM, Motion Control, Lt	13	135-7116	2	ASM, Linkage
4:2	135-2546	1	ASM, Lt Control Lever W/ Grip	13:1		1	ASM, Motion Control Link ●
4:2:2	135-3301	1	Grip, Drive Lever	13:1:2	116-4755	1	Rod-Adjustment
4:3	135-6412	4	Bearing, Igus	13:1:3	3220-16	1	Nut-Jam 3/8-24 LH
4:4	121-1229	1	Bolt-Shoulder	13:1:4	135-1291	1	Link, Motion Control
4:5	3296-56	1	Nut-Nyloc 1/4-20 Thin	13:1:5	3220-3	1	Nut-Jam 3/8-24
4:6	114-0249	1	Spring-Extension	14	135-2168	1	Control, Choke
5	135-1305	1	ASM, Motion Control, Rt	15	135-2169	1	Control, Throttle
5:2	135-2547	1	ASM, Rt Control Lever W/ Grip	16	32180-030	1	Clip-Tie
5:2:2	135-3301	1	Grip, Drive Lever	17	32144-10	4	Screw-HWH 1/4-20 X .62
5:3	135-6412	4	Bearing, Igus	18	3230-16	4	Bolt-Carriage 5/16-18 X 7/8
5:4	121-1229	1	Bolt-Shoulder	19	107069	8	Nut-Retainer-Panel 1/4-20
5:5	3296-56	1	Nut-Nyloc 1/4-20 Thin	20	1-513658	2	Bumper
5:6	114-0249	1	Spring-Extension	21	135-3494	6	Screw, Torx
6	135-3432-03	1	Weld, Front Ref Bar	22	322-8	4	Screw-HH
7	3274-94	2	Screw-Button Head 3/8-16 X 1	23	104-8300	8	Nut-Nyloc 5/16-18 Flg
8	104-8301	2	Nut-Nyloc 3/8-16 Flg	24	135-3176	4	Screw, BHCS
				25	3296-2	4	Nut-Nyloc #10-24
				26	135-2281	1	Decal-Cover
				27	126-1499	2	Cam
				28	3296-56	2	Nut-Nyloc 1/4-20 Thin

● Not serviced separately

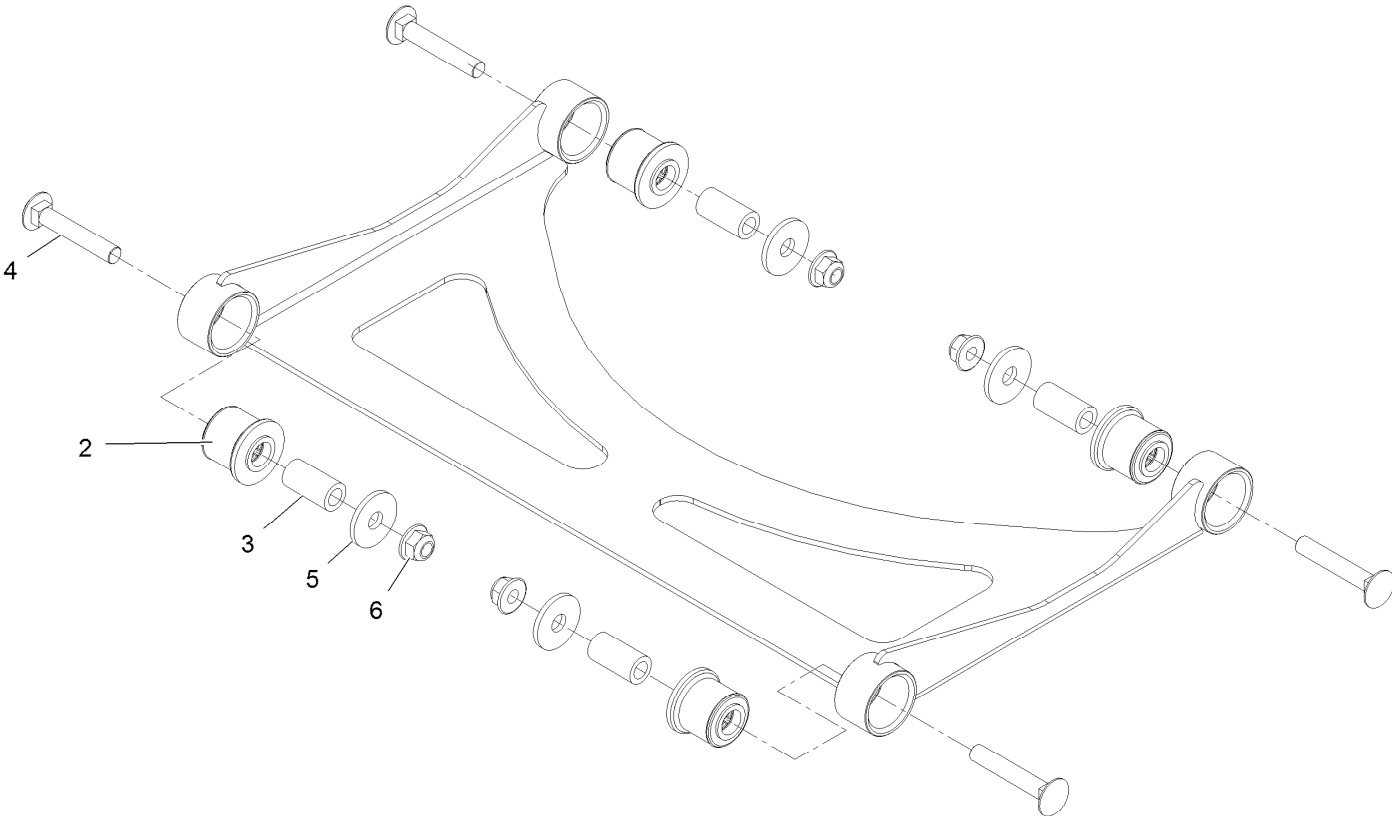
Deck Lift Assembly



Deck Lift Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	142-3574	1	ASM, Deck Strut	24	32151-103	2	E-Ring
2	135-1248	4	Bushing, Igus	25	119-2332	2	Washer-Flat
3	135-4586-03	1	Weld, Bellcrank, Rt	26	109-9066	4	Yoke-Adjust, Deck
4	142-2300-03	1	Weld, HOC Index	27	116-0756	4	Deck Lift Chain ASM
6	135-7940	1	ASM, HOC Lever	27:1	1-633447	1	Chain-Lift, Deck
7	119-7640	1	Washer-Thrust	27:2	109-9065	1	Screw-HH 7/16-14 X 2
8	135-7782-03	1	Strap, HOC Index	27:3	32128-37	1	Nut-Whizlock 7/16-14
9	135-4585-03	1	Weld, HOC Cross Shaft	28	115-5065	2	Bushing-Flange
10	135-1253-03	2	Strap, HOC Lift	29	116-2887	2	Gusset-Lift, Deck
11	99-5107	4	Nut-Lock 1/2-13	30	116-0886	1	Spring-Extension
12	135-4587-03	1	Weld, Bellcrank	31	92-7674	1	Screw-Shcs 3/8-16 X 2.212
13	135-1259	3	Bolt, Shoulder	32	109-9840	4	Screw-Hex Flange 3/8-16 X .80
14	126-5401	1	Pin-HOC	33	32128-37	4	Nut-Whizlock 7/16-14
15	3218-3	2	Nut-Jam 3/8-16	34	322-47	4	Screw-HH 5/16-18 X 1 1/4
16	323-50	1	Bolt-HH	35	3218-2	8	Nut-Jam 5/16-18
17	109-6658	3	Nut-Nyloc 3/8-16 Flg	36	104-8301	4	Nut-Nyloc 3/8-16 Flg
18	3231-22	3	Bolt-Carriage 3/8-16 X 1	37	104-8300	4	Nut-Nyloc 5/16-18 Flg
19	3234-38	1	Screw-HHF	38	3230-2	4	Bolt-Carriage 5/16-18 X 1
20	142-2181	1	Pivot, HOC Lever	39	135-2280	1	Decal-Height Of Cut
21	3256-67	1	Washer	40	135-5337	1	Pad, Knee
22	135-3944	1	Spacer, HOC	41	142-2216	1	Screw, 1/4-20 X 3/8 PH Torx
23	135-3945	1	Screw-HSBH				

Deck Strut Assembly

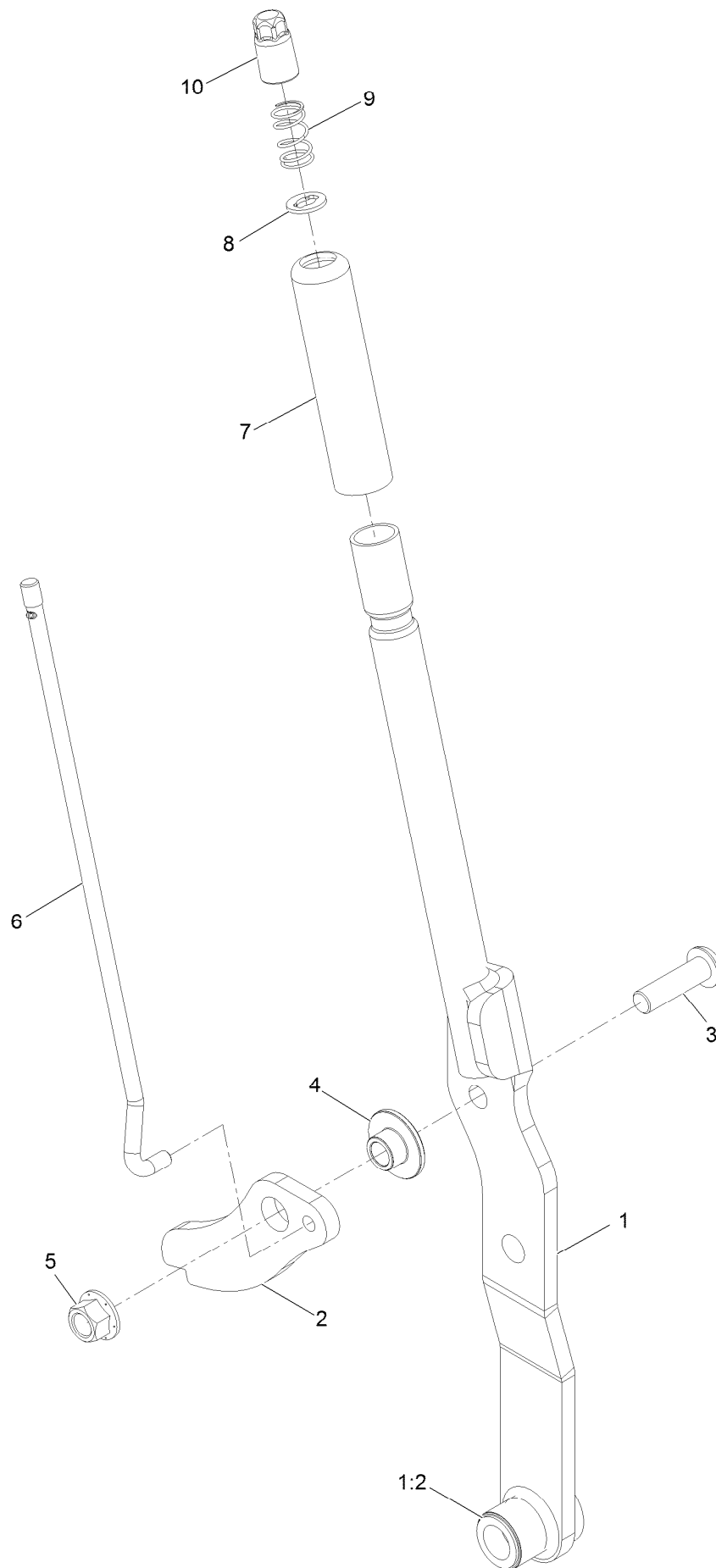


Deck Strut Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	137-4108	4	Bushing-Rubber
3	108-6544	4	Spacer
4	3231-7	4	Bolt-Carriage 3/8-16 X 2 1/4

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	2844	4	Washer
6	104-8301	4	Nut-Nyloc 3/8-16 Flg

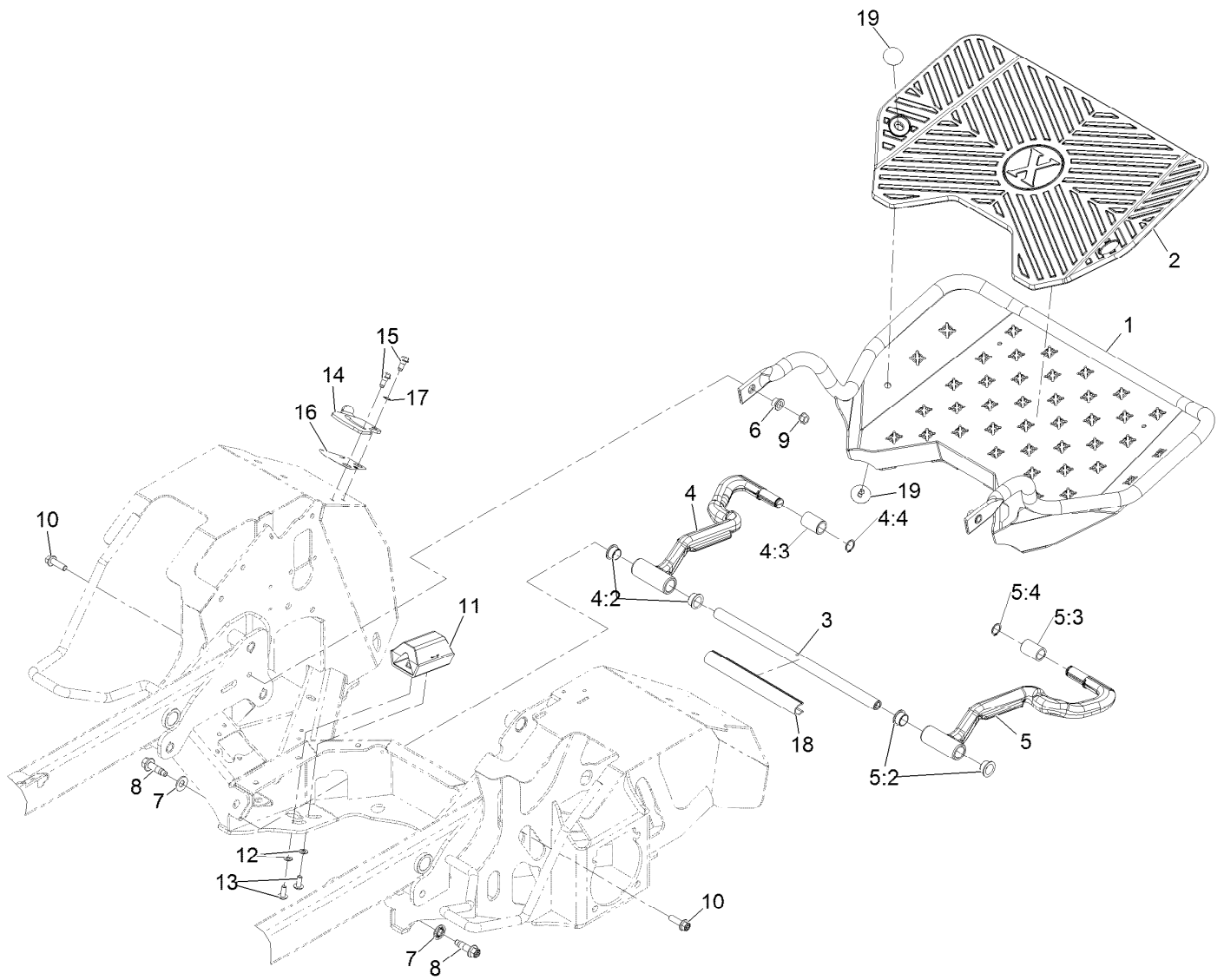
Height of Cut Lever Assembly



Height of Cut Lever Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-7939	1	ASM, HOC Lever W/ Bushings	5	99-5107	1	Nut-Lock 1/2-13
1:2	109-8054	2	Bushing-Flanged	6	135-1260	1	Linc, HOC
2	135-1209	1	Arm, Transport Lock	7	115-3592	1	Grip
3	108-1993	1	Screw-HSBH	8	114-1207	1	Washer-Special
4	135-3954	1	Spacer	9	114-8187	1	Spring-Compression
				10	135-7809	1	Button, Push

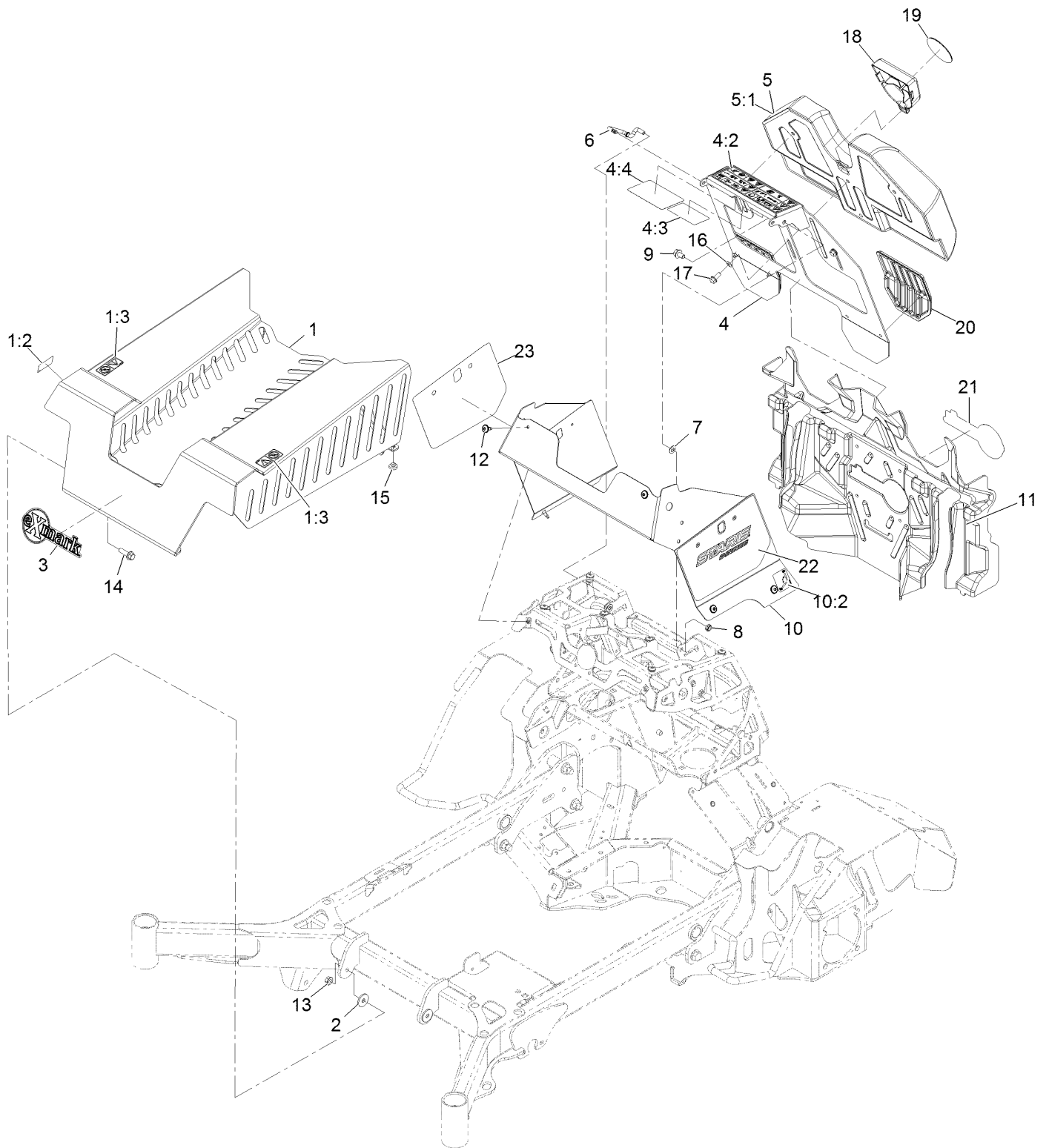
Platform Assembly



Platform Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	142-2748-05	1	Weld, Platform	9	32128-21	2	Nut-3/8-16 Flanged Side
2	142-3129	1	Mat, Platform				Lock
3	135-1336	1	Shaft, Cross	10	135-4712	2	Screw, HHF
4	135-2237	1	ASM, Rt Arm W/ Bushings	11	135-3993	2	Bumper
4:2	109-8054	2	Bushing-Flanged	12	3255-8	4	Washer-Lock 5/16
4:3	135-6438	1	Bushing, Sleeve				(Ext-Tooth)
4:4	32120-72	1	Ring-Snap	13	126-6268	4	Screw-Truss HD 5/16-18 X
5	135-2236	1	ASM, Lt Arm W/ Bushings				3/4 Torx Plus
5:2	109-8054	2	Bushing-Flanged	14	142-2492-03	1	Latch, Platform
5:3	135-6438	1	Bushing, Sleeve	15	126-4424	2	Screw-Shoulder
5:4	32120-72	1	Ring-Snap	16	135-5206	1	Decal-Latch Lock
6	109-8788	2	Bushing-Flanged	17	142-2432	1	Washer, Wave
7	1-603610	2	Washer-Spring Disc 7/16	18	135-7563	1	Keeper
8	135-7001	2	Screw-HHF	19	142-3247	4	Rivet-Ratchet

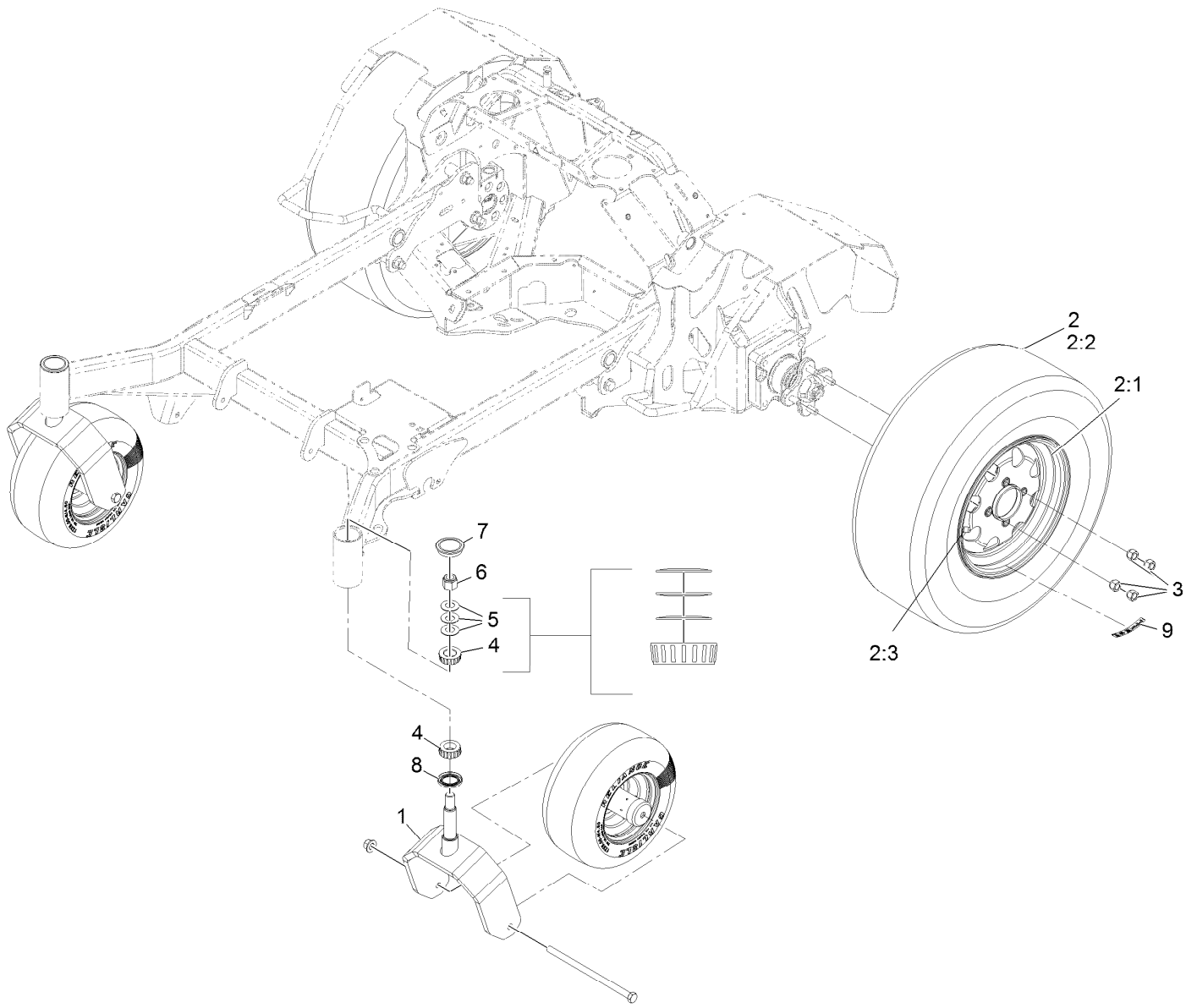
Guarding Assembly



Guarding Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-2163	1	ASM, Front Cover W/ Decals	10	135-2164	1	ASM, Tower Skin W/ Decals
1:2	106-5517	1	Decal-Warning	10:2	116-5988	1	Decal-Park Brake, CE
1:3	119-6807	2	Decal-Warning	11	142-2889	1	Panel, Heat Deflector
2	107675	2	Washer	12	135-3494	6	Screw, Torx
3	126-6877	1	Decal, Exmark Logo	13	32128-21	2	Nut-3/8-16 Flanged Side Lock
4	135-2162	1	ASM, Pad Backing W/ Decals	14	119-4061	2	Screw-HHF
4:2	135-2412	1	Decal-Warning	15	1-513658	2	Bumper
4:3	116-8253	1	Decal-Drive Release	16	3290-475	3	Washer-Belleville
4:4	135-2266	1	Decal-Service Aid	17	100-1668	3	Screw-HHF
5	135-1320	1	Pad, Thigh	18	135-2596	1	Insert, Pad
5:1	135-6556	1	Cover, Pad	19	135-2714	1	Decal-X Logo Badge 3 In
6	135-1611	1	Rod, Prop	20	135-5107	2	Pad, Knee
7	131-8667	2	Washer-Thrust	21	135-7280	1	Decal-Exmark Logo
8	3296-59	2	Nut-Nyloc 3/8-16 Thin	22	135-6809	1	Decal-Staris Logo Lt
9	3234-9	2	Screw-HHF	23	135-6810	1	Decal-Staris Logo Rt

Drive Wheel Assembly

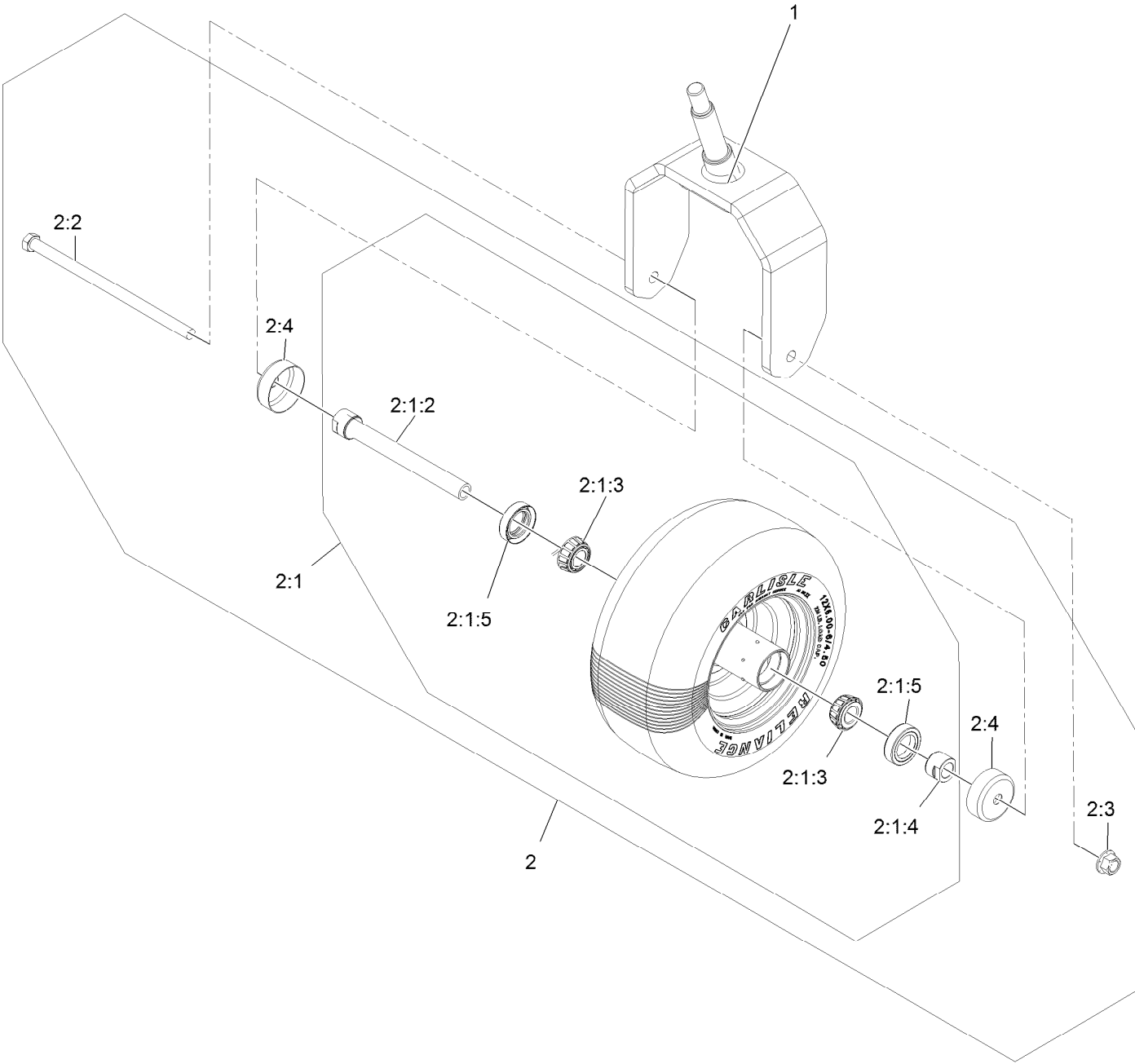


Drive Wheel Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1		2	ASM, Caster, 12X6-6 ●	5	1-633508	6	Washer-Spring Disc
2	135-2174	2	ASM, Wheel And Tire	6	3296-51	2	Nut-Nyloc 3/4-10
2:1	109-3645	1	Rim ASM	7	103-4882	2	Cap-Grease
2:2	135-2171	1	Tire, 23 X 8.50-12	8	116-5647	2	Seal-Grease
2:3	232-27	1	Stem-Valve	9	126-2055	2	Decal-Torque, Wheel Hub
3	242-50	8	Nut-Lug 1/2-20				Lug
4	1-543509	4	Cone-Bearing Tapered Roller				

● Not serviced separately

Caster Wheel Assembly

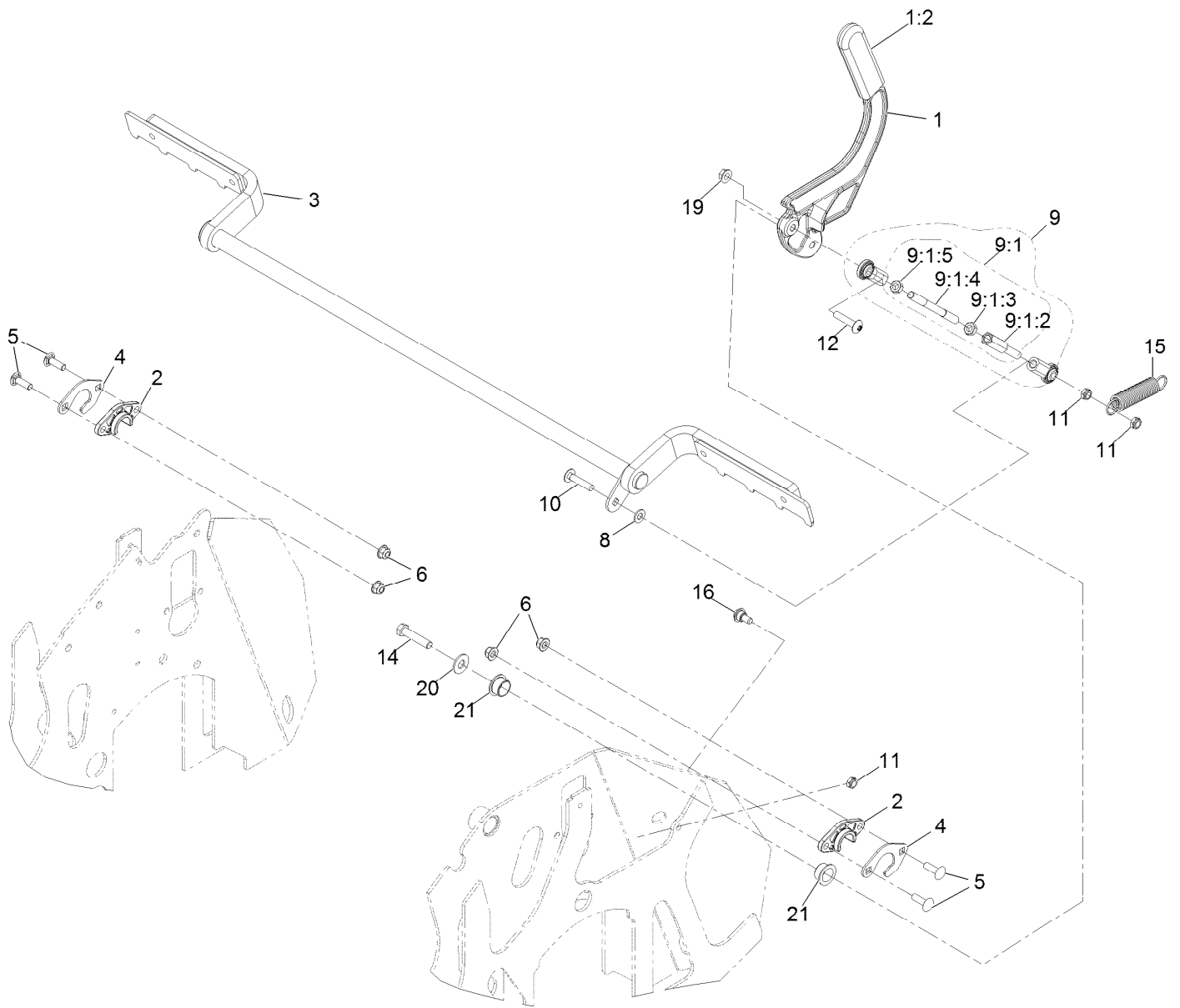


Caster Wheel Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-3598-01	1	Weld, Caster Fork	2:1:4	103-3051	1	Spacer-Nut
2	135-2148	1	ASM, Caster W/ Axle	2:1:5	103-0063	2	Seal-Caster
2:1		1	ASM, Caster W/ Bearings ●	2:2	325-39	1	Screw-HH
2:1:2	126-5361	1	Axle Caster ASM	2:3	99-5107	1	Nut-Lock
2:1:3	1-633585	2	Bearing-Cone, Taper	2:4	103-2768	2	Guard-Seal

● Not serviced separately

Park Brake Assembly

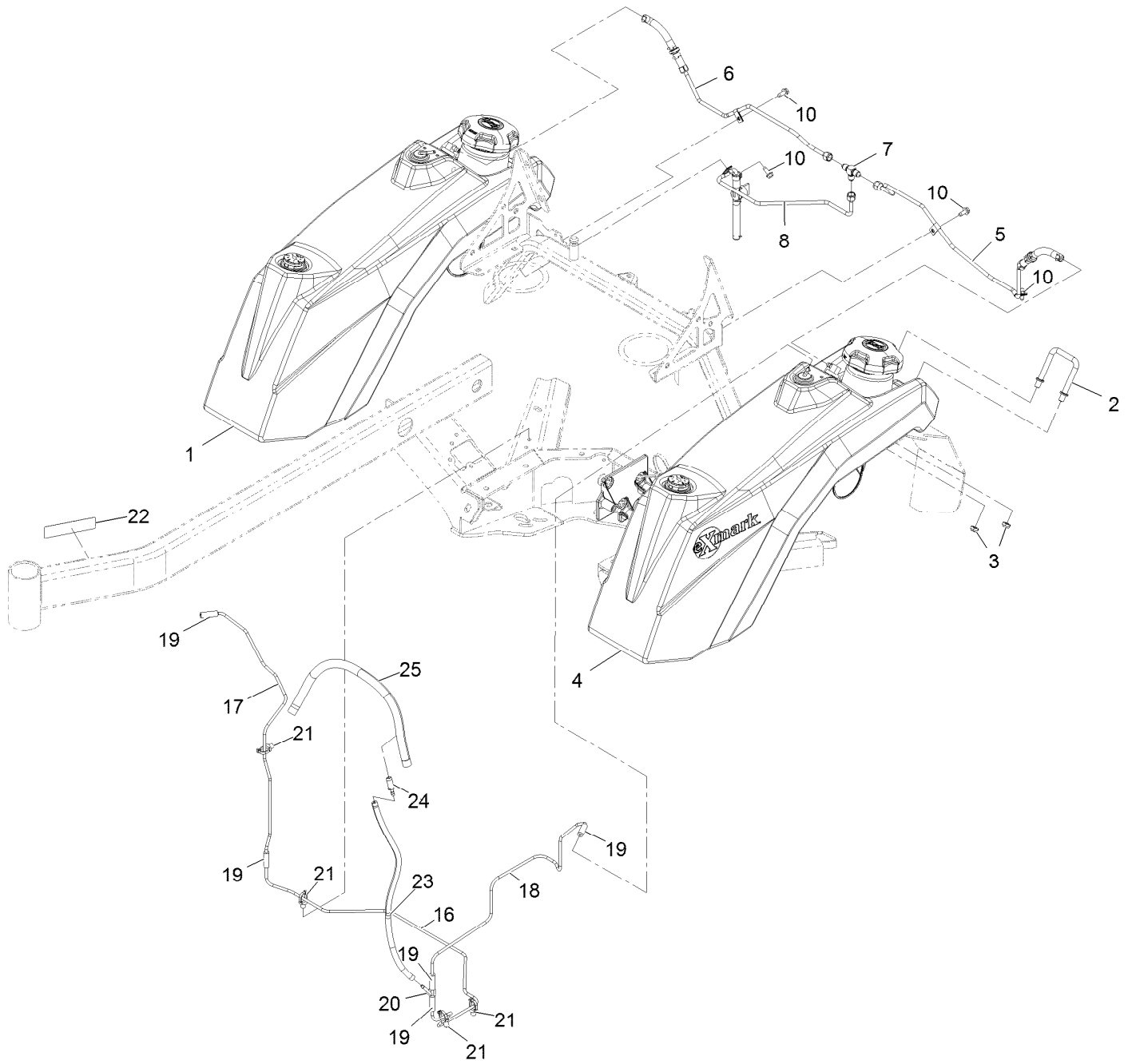


Park Brake Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	142-2413	1	ASM, Brake Lever W/ Grip	9:1:5	3220-3	1	Nut-Jam 3/8-24
1:2	1-633268	1	Grip-Lever	10	3230-4	1	Bolt-Carriage 5/16-18 X 1 1/2
2	115-5065	2	Bushing-Flange	11	3296-47	3	Nut-Nyloc 5/16-18 Thin
3	142-3739-03	1	Weld-Brake Shaft	12	126-7439	1	Screw-Truss HD 5-16-18 X 1 1/2 Torx Plus
4	135-7867	2	Support, Bearing	14	323-52	1	Screw-HH 3/8-16 X 1 3/4
5	3230-22	4	Bolt-Carriage 5/16-18 X 1 Sp	15	1-323161	1	Spring
6	104-8300	4	Nut-Nyloc 5/16-18 Flg	16	120-9471	1	Screw-Shoulder Bh 5/16-18 X 1/2 Tf Torx
8	3256-23	1	Washer-5/16 SAE	19	32128-25	1	Nut-Hex 5/16-18 Side Lock
9	135-7116	1	ASM, Linkage	20	3256-4	1	Washer-3/8 Std
9:1		1	ASM, Motion Control Link ●	21	135-7091	2	Bushing, Igus
9:1:2	116-4755	1	Rod-Adjustment				
9:1:3	3220-16	1	Nut-Jam 3/8-24 LH				
9:1:4	135-1291	1	Link, Motion Control				

● Not serviced separately

Fuel Assembly

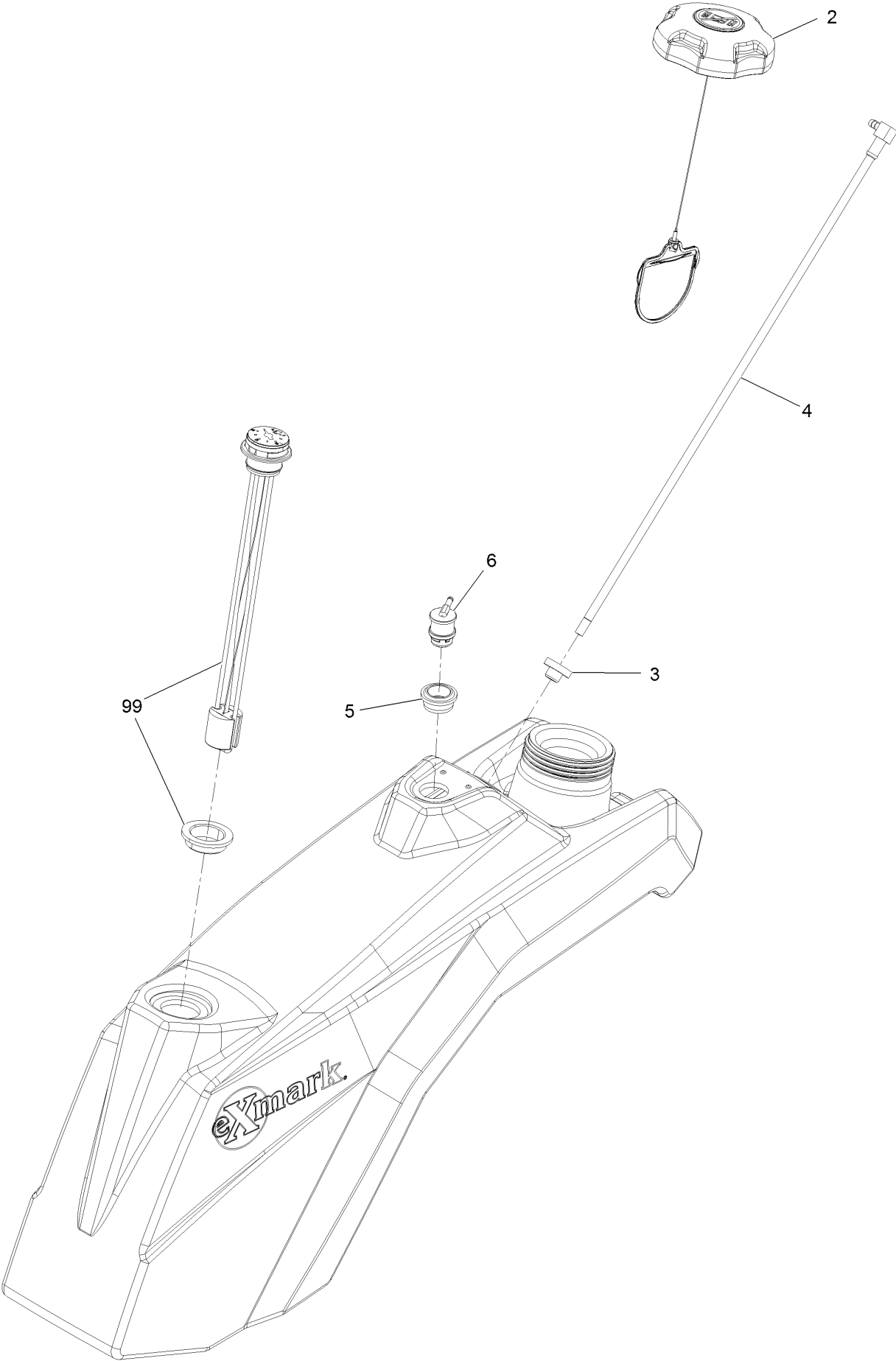


Fuel Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-2227	1	ASM, Rt Fuel Tank	17	135-2221	1	Line, Vent, Right
2	135-7299	2	Clamp, Tank	18	135-7097	1	Line, Vent, Left
3	3296-59	4	Nut-Nyloc 3/8-16 Thin	19	51-3216	5	Hose-Fuel
4	135-2225	1	ASM, Lt Fuel Tank	20	135-2222	1	Fitting, 3/16" Y
5	135-2197	1	ASM, Left Fuel Line	21	32180-030	4	Clip-Tie
6	135-2198	1	ASM, Right Fuel Line	22	133-8062	1	Decal-Arrestor, Spark
7	135-2203	1	Fitting, 2603-4-4-4	23	135-3950	1	Hose, Vent
8		1	ASM, Kaw Fuel Line ●	24	98-2952	1	Fitting-Straight
10	32144-10	5	Screw-HWH 1/4-20 X .62	25	116-5087	1	Hose-Fuel
16	135-2219	1	Line, Vent, Main				

● Not serviced separately

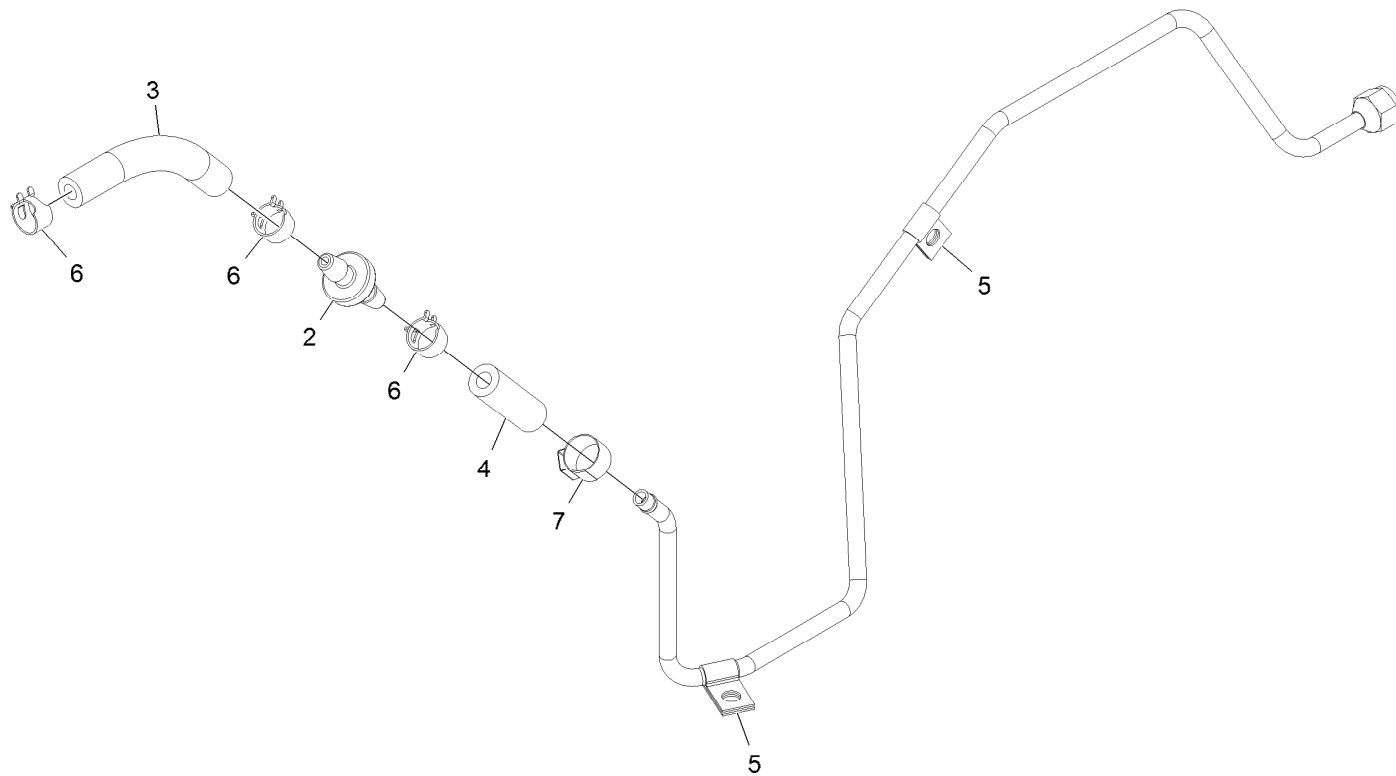
Left and Right Fuel Tank Assembly



Left and Right Fuel Tank Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	137-4119	1	Cap-Fuel, Ratcheting	5	114-0284	1	Grommet
3	46-6560	1	Bushing	6	119-3547	1	Valve-Vent, Fuel
4	135-1916	1	Straw, Fuel, Short	99	135-3987	1	Kit, Fuel Gauge

Left Fuel Line Assembly

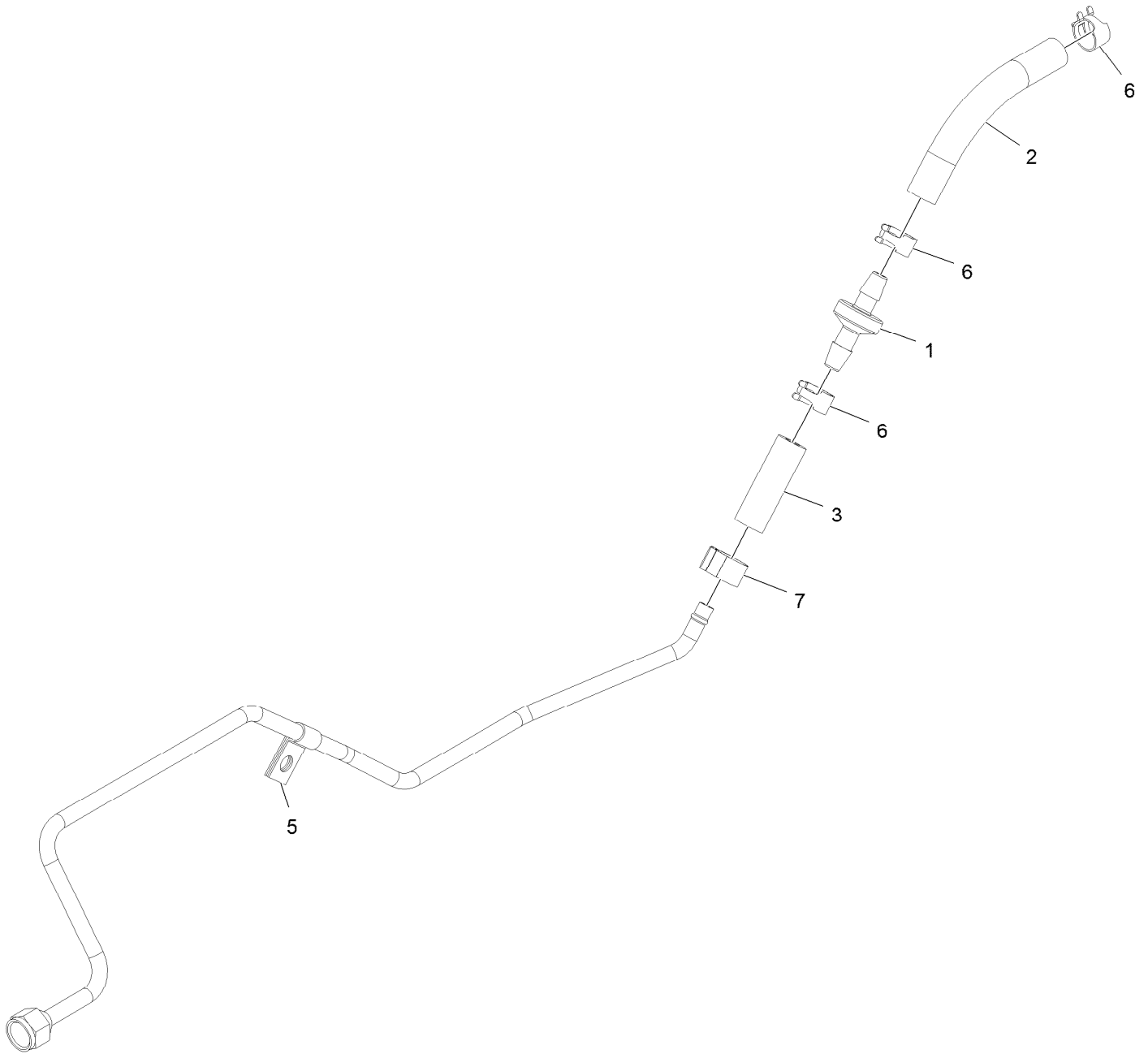


Left Fuel Line Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	99-5000	1	Valve-Check, Fuel	5	2412-72	2	Clip-Closed, Insulated
3	105-8342	1	Hose-Fuel	6	2412-98	3	Clamp-Hose
4		1	Hose-Fuel ●	7		1	Clamp-Hose, Fuel ●

● Not serviced separately

Right Fuel Line Assembly



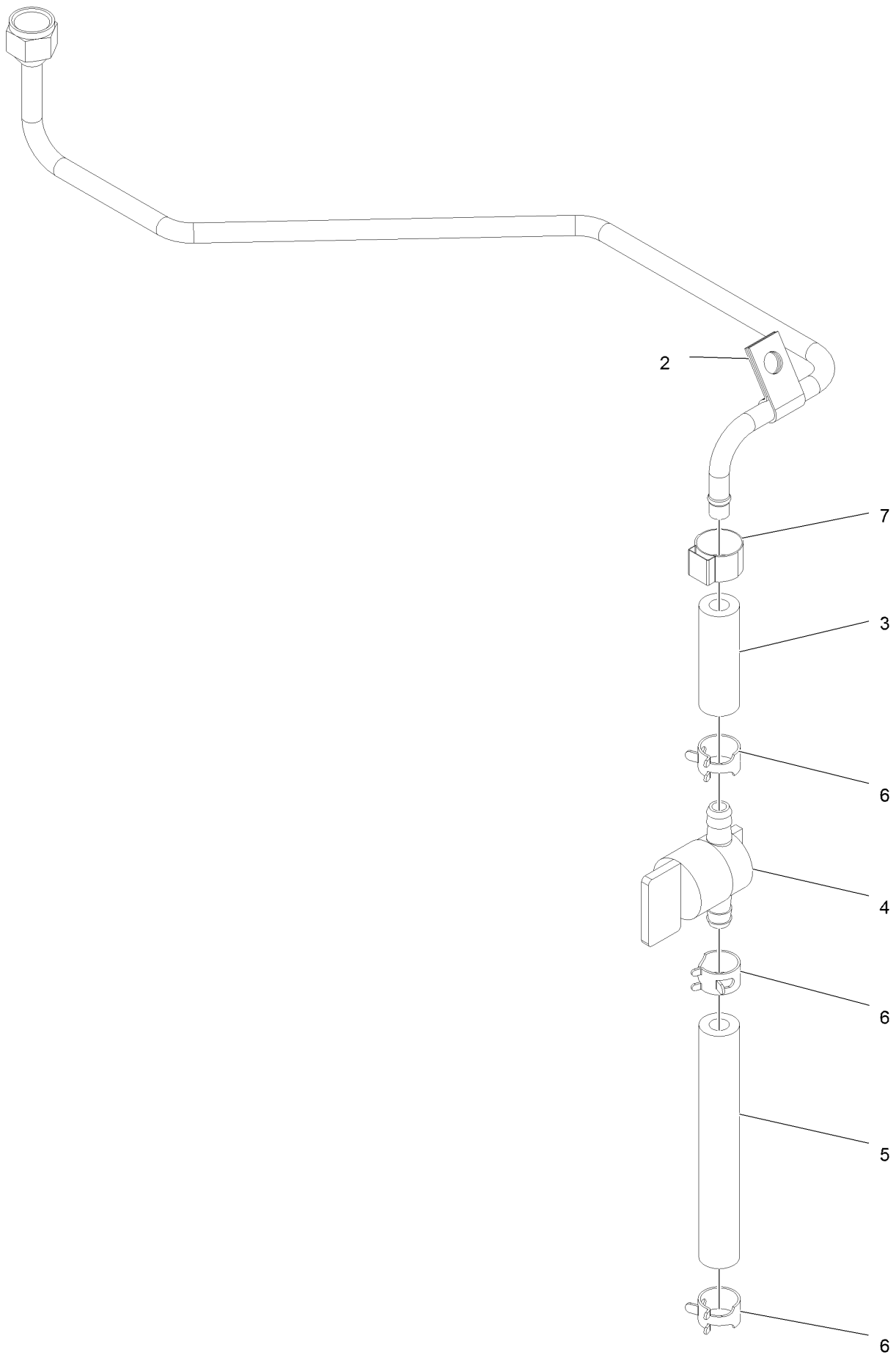
Right Fuel Line Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	99-5000	1	Valve-Check, Fuel
2	105-8342	1	Hose-Fuel
3		1	Hose-Fuel ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	2412-72	1	Clip-Closed, Insulated
6	2412-98	3	Clamp-Hose
7		1	Clamp-Hose, Fuel ●

● Not serviced separately

Fuel Line Assembly

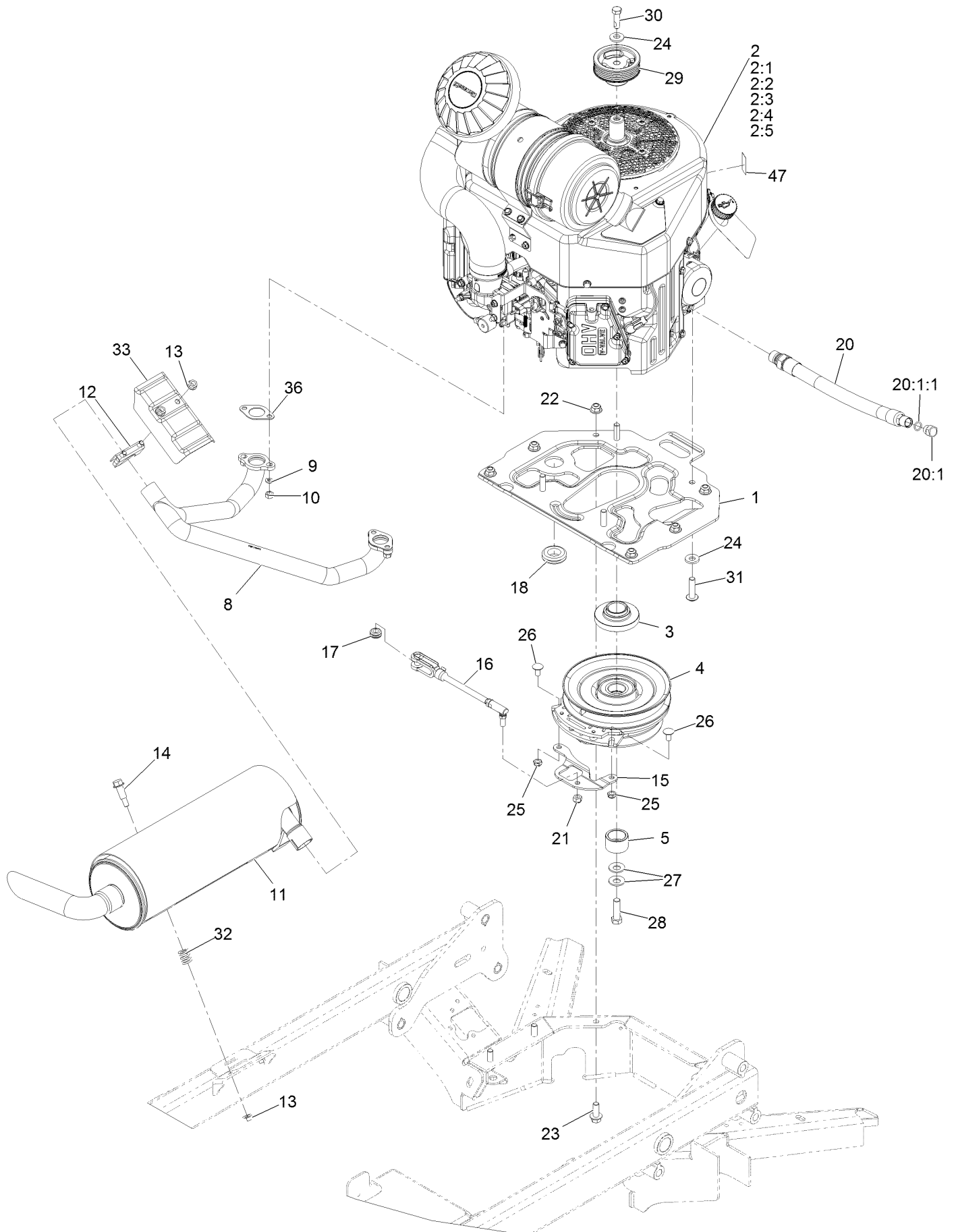


Fuel Line Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	2412-72	1	Clip-Closed, Insulated	5	109-0660	1	Hose-Fuel
3		1	Hose-Fuel ●	6	2412-98	3	Clamp-Hose
4	1-603770	1	Valve-Fuel	7		1	Clamp-Hose, Fuel ●

● Not serviced separately

Engine Assembly



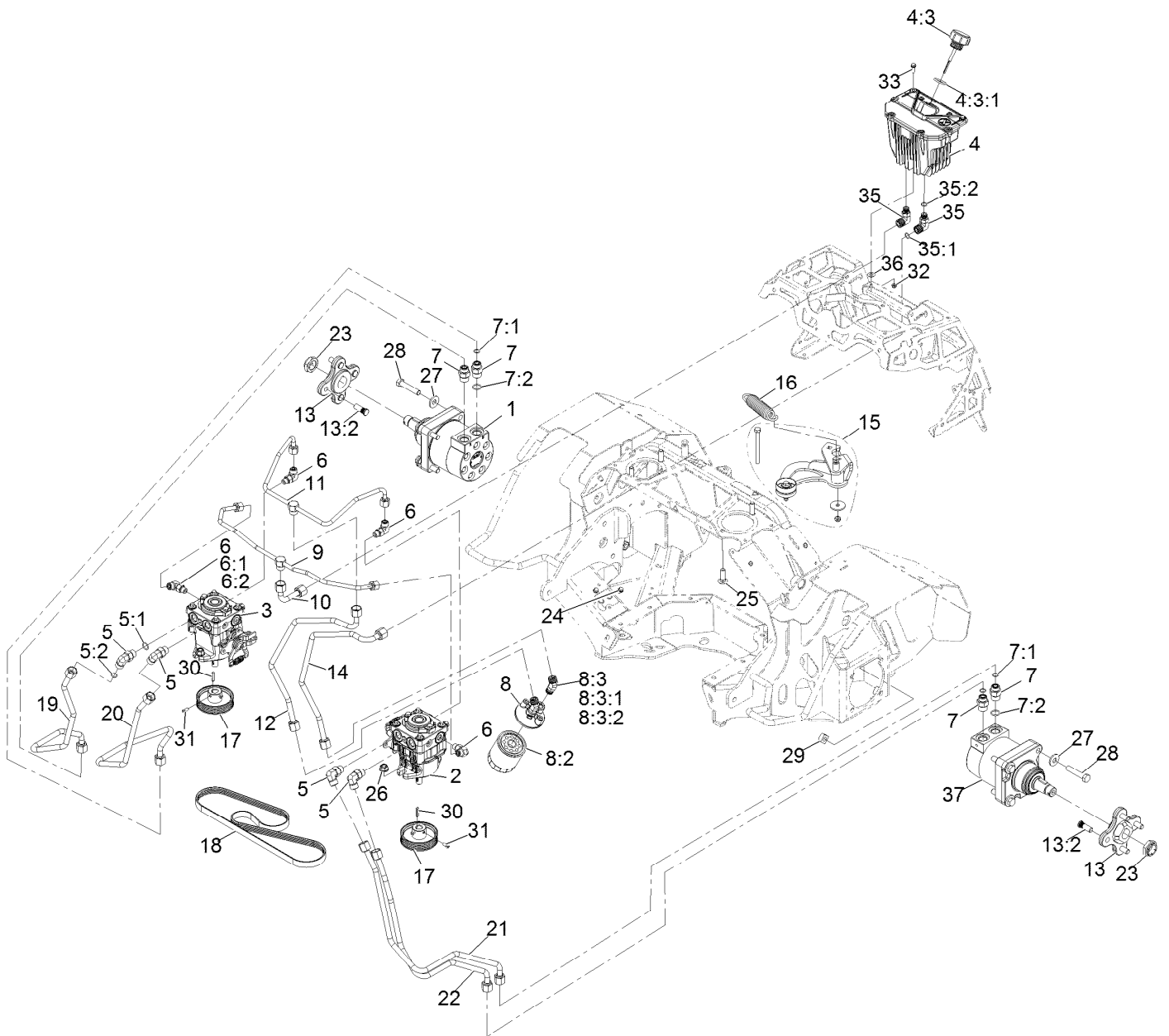
Engine Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-1615-03	1	Plate, Engine	17	237-136	1	Grommet
2		1	Engine, Kawasaki Fx651 ▲◆	18	1-543286	1	Grommet
2:1		1	Kawasaki 49065-7007	20	116-4924	1	Asm-Hose Oil Drain W/Plug
			Engine Oil Filter ▲◆	20:1	353-508	1	Plug-W/O-Ring ■
2:2		1	Kawasaki 49019-0031 Fuel	20:1:1	237-42	1	O-Ring
			Filter ▲◆	21	3296-4	1	Nut-Lock 5/16-24
2:3		1	Kawasaki 92070-7004	22	104-8301	6	Nut-Nyloc 3/8-16 Flg
			Plug-Spark Bpr4ES ▲◆	23	3234-42	6	Screw HHF 3/8-16 X 1
2:4		1	Kawasaki 11013-7045	24	98-5975	5	Washer-Spring Disc 3/8
			Pre-Filter ▲◆	25	3296-47	2	Nut-Nyloc 5/16-18 Thin
2:5		1	Kawasaki 11013-7044 Air	26	3230-18	2	Bolt-Carriage 5/16-18 X 5/8
			Filter ▲◆	27	1-603610	2	Washer-Spring Disc 7/16
3	142-3593	1	Spacer, Clutch 1.13	28	109-9761	1	Screw-HH 7/16-20 X 1 1/2
4	142-3587	1	Clutch				W/Loctite
5	135-1308	1	Spacer, Clutch	29	135-1198	1	Pulley, Crank
8	135-5094	1	Header, Kawaswaki	30	135-7890	1	Screw-HH, Patch,
9	114-3550	4	Washer-Spring Lock M8	31	126-0983	4	Screw-BHTF
10	114-3549	4	Nut-M8	32	135-6667	2	Spring, Compression
11	142-3577	1	Muffler, 5"	33	135-7527	1	Shield, Heat
12	104-4090	1	Clamp-Muffler	36	1-653313	2	Gasket-Exhaust
13	32128-25	4	Nut-Hex 5/16-18 Side Lock	47	135-6844	1	Decal-10W-50 Oil
14	130-2344	2	Bolt-Shoulder	48	142-3562	1	Stand-Off, Duct ●
15	135-1589	1	Strap, Clutch				
16	126-0620	1	ASM, Clutch Anchor				

● Not illustrated
▲ Not serviced separately

■ Torque to 24-26 ft-lb
◆ Obtain parts from www.kawpowerepc.com

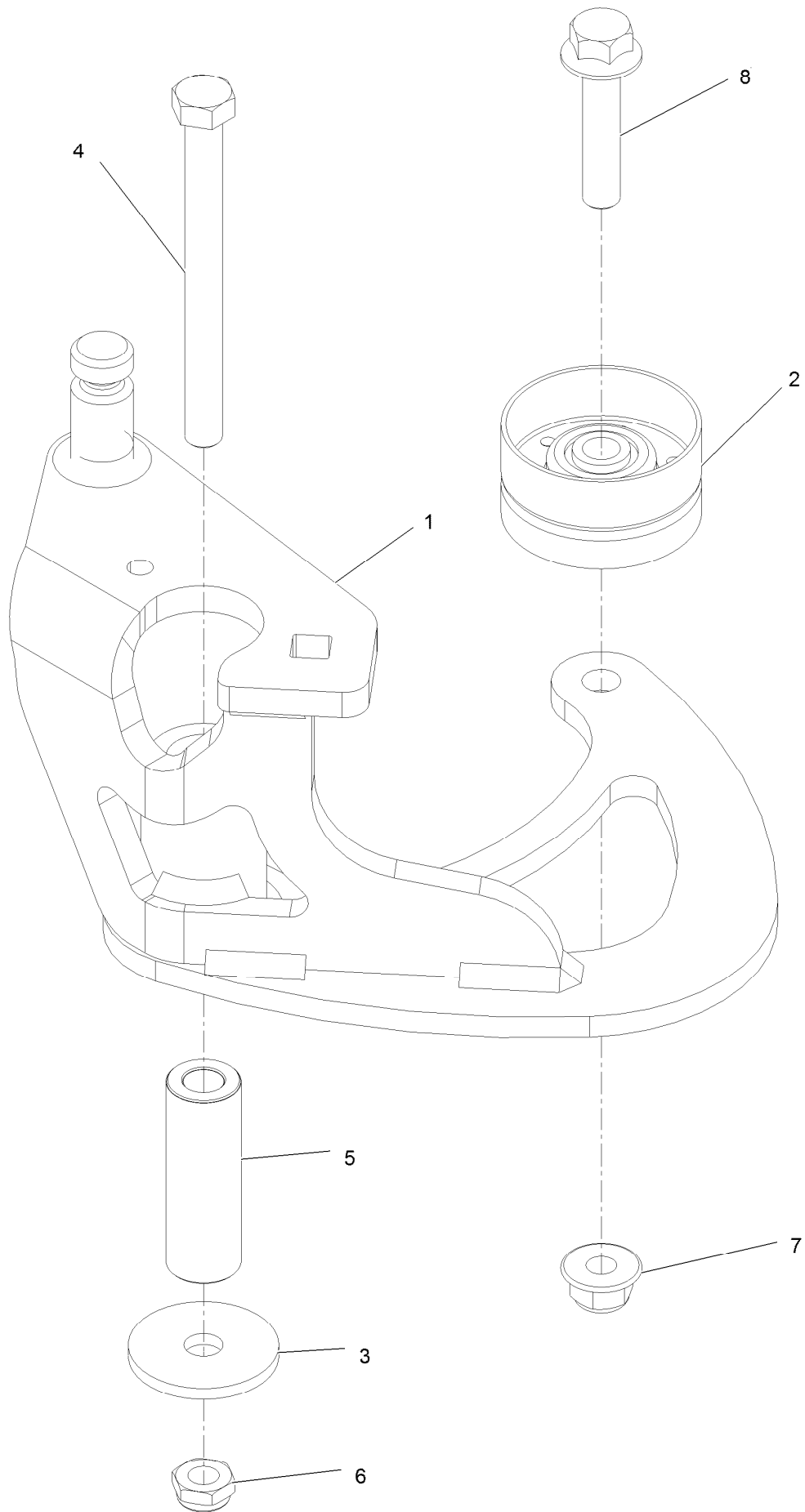
Hydraulic Assembly



Hydraulic Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-1162	1	Motor, TI195	14	135-7052	1	Line, Hydraulic, Supply
2	142-2933	1	Pump, 12Cc	15	135-1270	1	ASM, Idler Arm
3	142-2934	1	Pump, 12Cc	16	135-1272	1	Spring, Extension
4	135-3305	1	ASM, Hydraulic Reservoir	17	142-2968	2	Pulley, Pvk5
4:3	142-2793	1	Cap, Hydraulic	18	135-1196	1	Belt, Pvk5
4:3:1	142-2792	1	O-Ring	19	142-2819	1	Kit-Sts HYD Line B-A
5	340-98	4	Fitting-Elbow, 90 DEG	20	142-2820	1	Kit-Sts HYD Line A-B
5:1	237-79	1	O-Ring	21	142-2844	1	Kit, Hydraulic Line, A-B
5:2	237-30	1	O-Ring	22	142-2843	1	Kit, Hydraulic Line, B-A
6	340-77	4	Fitting-Elbow, 90 DEG	23	116-1399	2	Locknut
6:1	237-22	1	O-Ring	24	119-1065	2	Screw-HWH
6:2	237-42	1	O-Ring	25	3232-3	4	Bolt-Carriage 7/16-14 X 1 1/2
7	340-6	4	Fitting-Straight	26	114-8417	4	Nut-HF, NI
7:1	237-30	1	O-Ring	27	1-513435	8	Washer-Spring Disc 1/2
7:2	237-80	1	O-Ring	28	325-10	8	Screw-HH 1/2-13 X 2 1/2
8	142-2951	1	ASM, Filter Head	29	3290-510	8	Nut-Square
8:2	109-4180	1	Element, Oil Filter	30	135-7971	2	Key, 5Mm X 5Mm X 29Mm
8:3	340-96	2	Adapter	31	3241-7	4	Screw-SQH
8:3:1	237-30	1	O-Ring	32	3296-56	2	Nut-Nyloc 1/4-20 Thin
8:3:2	237-42	1	O-Ring	33	32105-15	2	Screw-Machine 1/4-20 X 3/4
9	135-7056	1	Line, Hydraulic, Case Tee	35	340-99	2	Fitting-HYD, 90 DEG
10	135-7054	1	Line, Hydraulic, Case	35:1	237-30	1	O-Ring
11	135-7055	1	Line, Hydraulic, Charge Tee	35:2	237-42	1	O-Ring
12	135-7053	1	Line, Hydraulic, Charge	36	73-0041	2	Washer-Thrust
13	135-2214	2	ASM, Hub W/ Studs	37	142-2840	1	Motor, TI195
13:2	116-1696	4	Stud-Wheel				

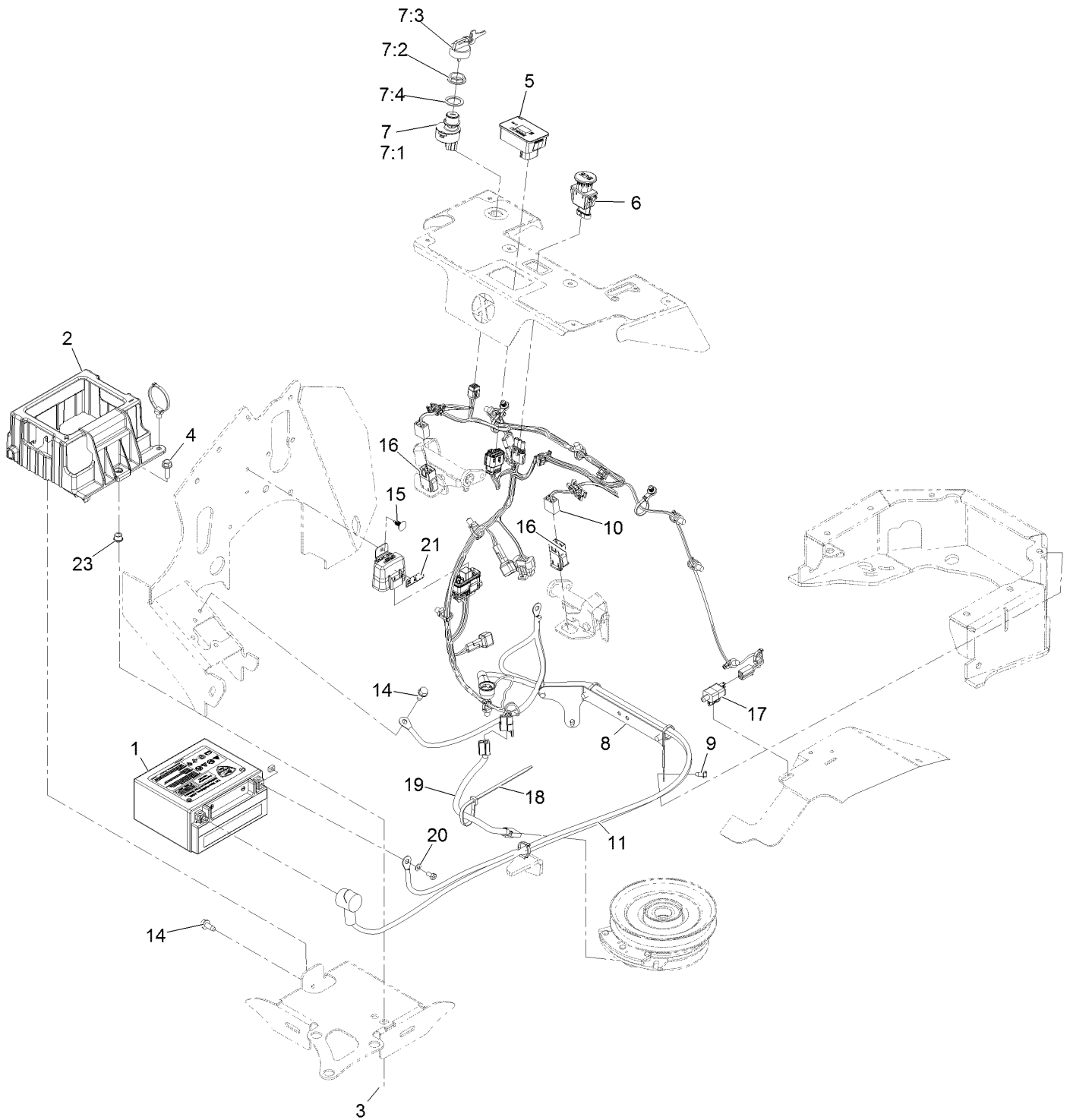
Idler Arm Assembly



Idler Arm Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-2238	1	ASM, Idler Arm W/ Bushings	5	135-1273	1	Tube, Idler Pivot
2	135-1199	1	Idler, Flat	6	3296-59	1	Nut-Nyloc 3/8-16 Thin
3	1-213069	1	Washer	7	104-8301	2	Nut-Nyloc 3/8-16 Flg
4	323-16	1	Screw-HH 3/8-16 X 4	8	3234-19	1	Screw-HHF 3/8-16 X 1 3/4

Electrical Assembly



Electrical Assembly (continued)

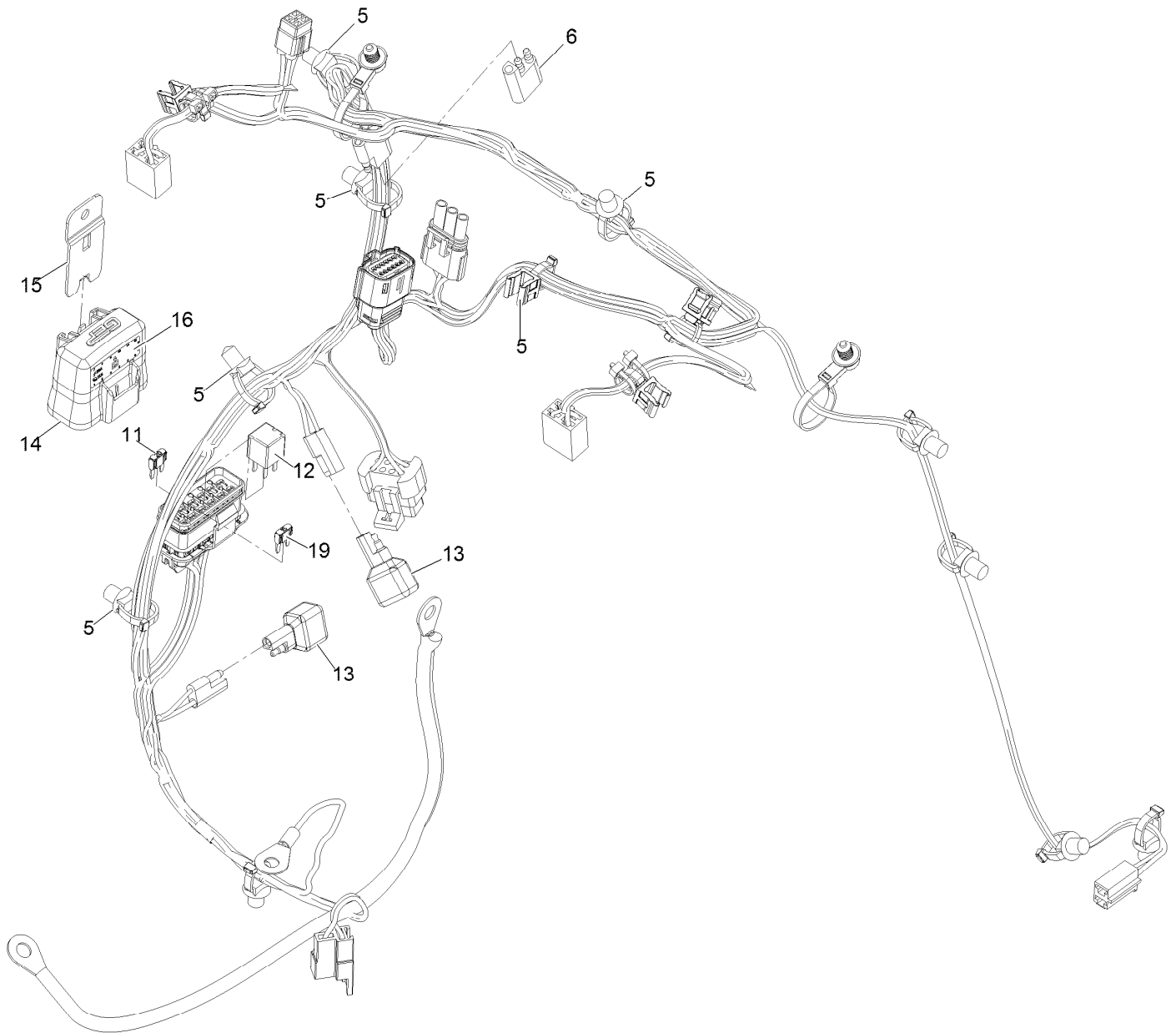
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4421	1	Battery, Agm, Non-Spillable	10	142-2406	1	Harness-Wire ▲
2	142-2450	1	Box, Battery	11	135-2126	1	Harness-Battery
3	135-4473	1	Nut, Snap	14	32144-11	2	Screw-HWH 5/16-18 X 3/4 Tf
4	115-5142	1	Screw-HHF	15	117-2382	1	Plug-Plastic
5	135-7189	1	Module-Hour Meter	16	104-3338	2	Switch-Delta
6	126-6187	1	Switch-PTO, Sealed	17	110-6765	1	Switch
7	126-6285	1	Ignition Switch ASM	18	1-303335	1	Tie-Cable 7 15/16 (Large)
7:1		1	Switch-Ignition ■	19	109-9274	1	Harness-Clutch
7:2	108-8660	1	Nut-Mounting	20	1-303435	2	Washer-Spring Disc 1/4
7:3	106-5270	1	Ignition Key Set	21	126-7875	1	Decal-Fuse
7:4	108-8659	1	Washer-Backup	23	256-116	1	Bushing-Flange
8	135-1924-03	1	Support, Battery Cable	99	135-7732	1	Hardware Kit, Battery ●
9	32104-17	2	Screw-HWH 1/4-20 X 1/2 Tap				

● Not illustrated

■ Not serviced separately

▲ Use dielectric grease on all unsealed connectors and terminals only. Do not apply in sealed connectors.

Harness Assembly



Harness Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	32180-030	10	Clip-Tie	14	32180-176	1	Cover-Block, Fuse
6	32180-197	1	Cap-Plug	15	32180-177	1	Clip-Mounting
11	121-8868	1	Fuse-Mini Blade, 20 Amp	16	126-7875	1	Decal-Fuse
12	126-3991	1	Relay-Micro	19	121-8867	1	Fuse-Mini Blade, 15 Amp
13	100-4918	2	Diode				

Notes:

Notes:

Notes:



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LIGHT KIT	ULTRA VAC COLLECTION SYSTEM
MICRO-MULCH SYSTEM	ULTRA VAC QUICK DISPOSAL SYSTEM
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