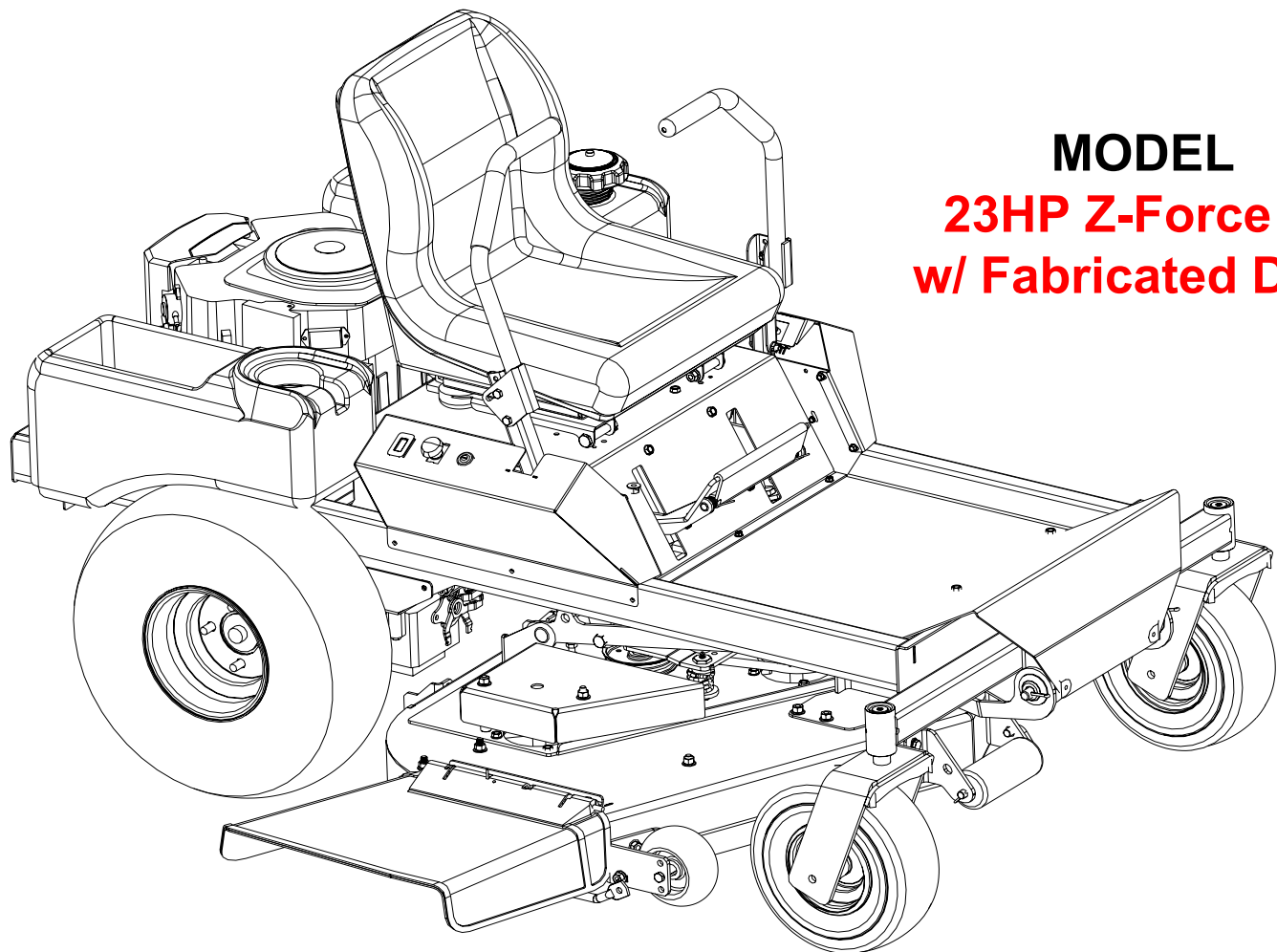




Hydrostatic Zero-Turn Residential Riding Mower

Turf Equipment



MODEL
23HP Z-Force 48
w/ Fabricated Deck

ILLUSTRATED PARTS LIST

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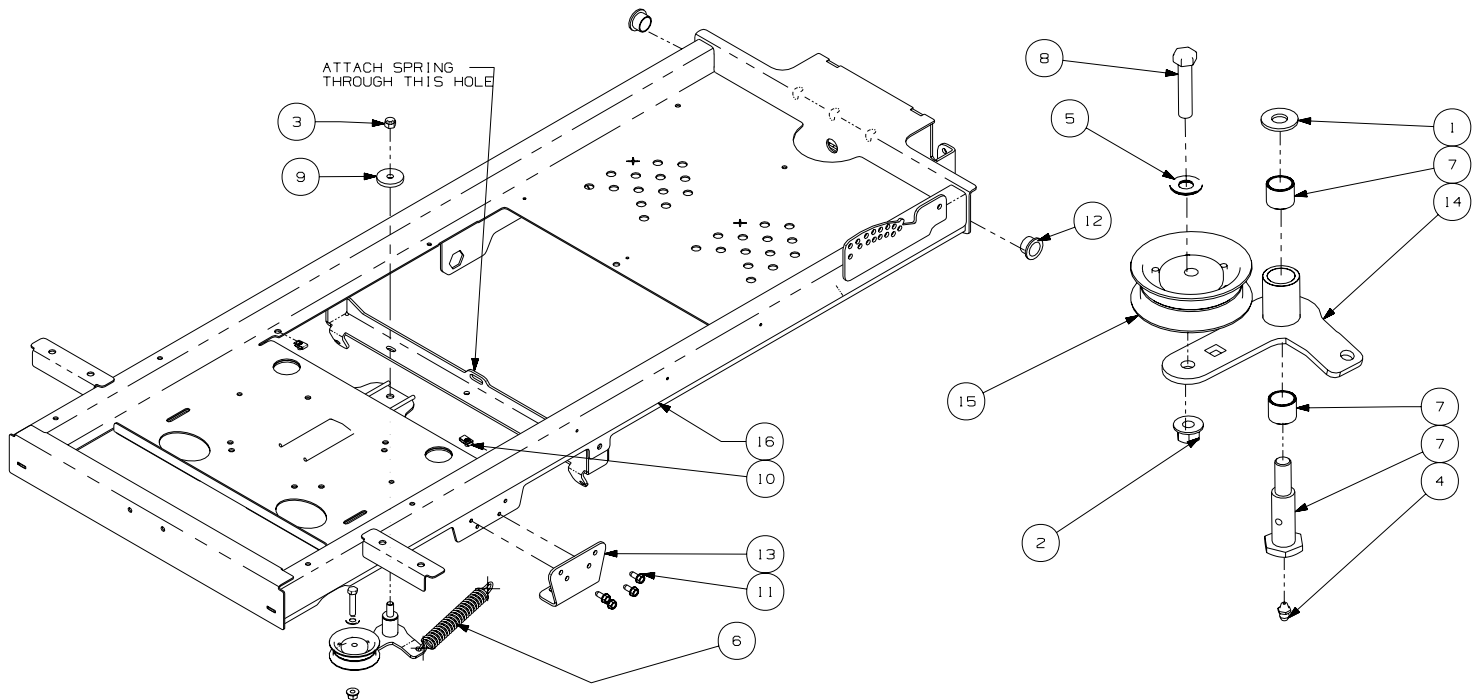
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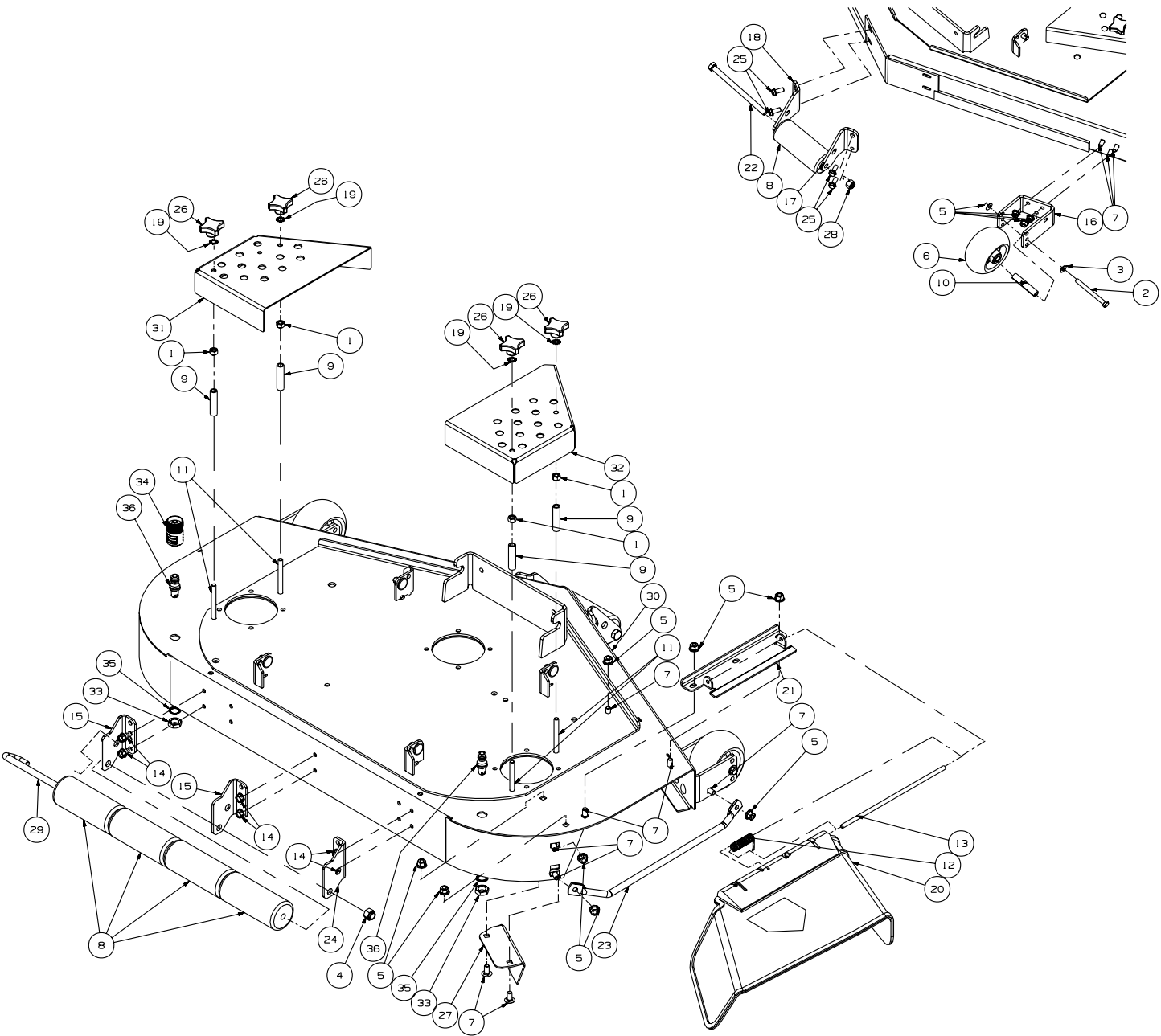
Frame Assembly- Figure 1 and Parts List



GD: 02004985-12/11/07

Ref. No.	Part No.	Description	Qty.
1	00006168	Flat Washer, 3/8 zinc	1
2	00022560	Hex Nut, 3/8-16 Flange Lock	1
3	00027279	Nylock Nut, 7/16-14	1
4	00060078	Grease Fitting, 1/4-28 x 3/16	1
5	00061053	Washer, 3/8, SS	1
6	01000199	Extension Spring, 1.00 OD x 5.00 lg	1
7	01000505	Shoulder Bolt	1
8	01000512	Hex Cap Screw, 3/8-16 x 1-3/4	1
9	01003269	Flat Washer, 7/16 ID x 1.75 OD	1
10	01008539	U-Nut, 1/4-20	2
11	01008620	Self Tapping Screw 5/16-18 x .750	8
12	02002628	Bronze Bushing, .875 ID x 1.50 OD	2
13	02002641	Transmission Mounting Bracket	2
14	02003641	Idler Arm Assembly includes:	1
	01000308	Bearing Sleeve	2
15	02004558	Flat Idler Pulley	1
16	02004865	Frame Assembly Weldment	1

48" Fabricated Cutter Deck - Figure 2

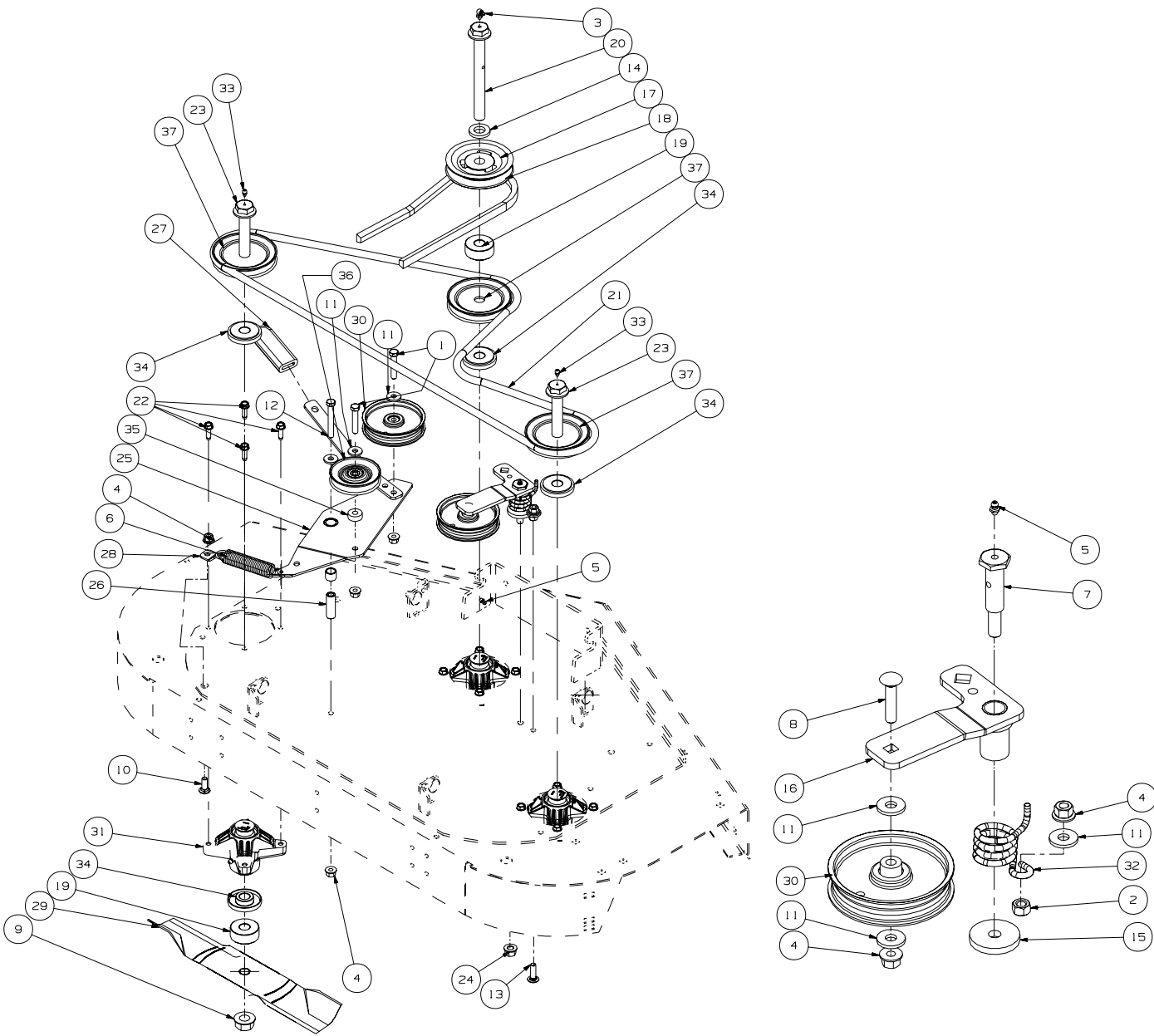


GD: 02005084-11/20/07

48" Fabricated Cutter Deck - Parts List for Figure 2

Ref. No.	Part No.	Description	Qty.
1	00006131	Nut, 3/8-16, Hex	4
2	00011925	Hex Cap Screw, 3/8-16, 3.75	2
3	00012158	Washer	2
4	00012428	Hex Nut, 1/2-13, Insert Lock	1
5	00022560	Hex Nut, 3/8-16 Flange Lock	16
6	01000343	Complete Wheel, 5.00 Dia	2
7	01000372	Carriage Bolt 3/8-16 x .75	14
8	01000385	Front Roller	5
9	01000395	Spacer	4
10	01000398	Wheel Spacer	2
11	01002750	Carriage Bolt, 3/8-16 x 3.50	4
12	01003253	Torsion Spring	1
13	01003254	Chute Deflector Rod	1
14	01004304	Self Tapping Screw, 5/16-18 x 1/2	6
15	01004707	Fabricated Deck Roller Mount Bracket	2
16	01005243	Front Anti-Scalp Wheel Mount Bracket	2
17	01005244	Left Hand Front Roller Mount Bracket	1
18	01005245	Right Hand Front Roller Mount Bracket	1
19	01005851	External Washer, 3/8	4
20	01006693	Deflector Chute	1
21	01006748	Deflector Chute Bracket	1
22	01006961	Hex Cap Screw, 1/2-20 x 7.50	1
23	01008644	Fabricated Deck Finger Guard	1
24	01008790	Grass Catcher Roller Bracket	1
25	01009243	Self Tapping Screw, 3/8-16 x 0.875	4
26	02000040	Plastic Knob	4
27	02001235	Fabricated Deck, Chute Bracket	1
28	02002299	Lock Nut, Nylon Insert, 1/2-20	1
29	02002799	J-Hook w/ Threaded Roller	1
30	02005231	48 Fabricated Deck Assembly	1
31	02003605	Belt Cover, LH	1
32	02003606	Belt Cover, RH	1
33	712-0641	Hex Nut, M16-1.5	2
34	721-04041	Water Nozzle Adaptor	1
35	736-0760	Lock Washer, 17 x 23.8 x 1.95	2
36	737-04003C	Deck Water Nozzle	2

48" Fabricated Deck Spindle Assembly - Figure 3

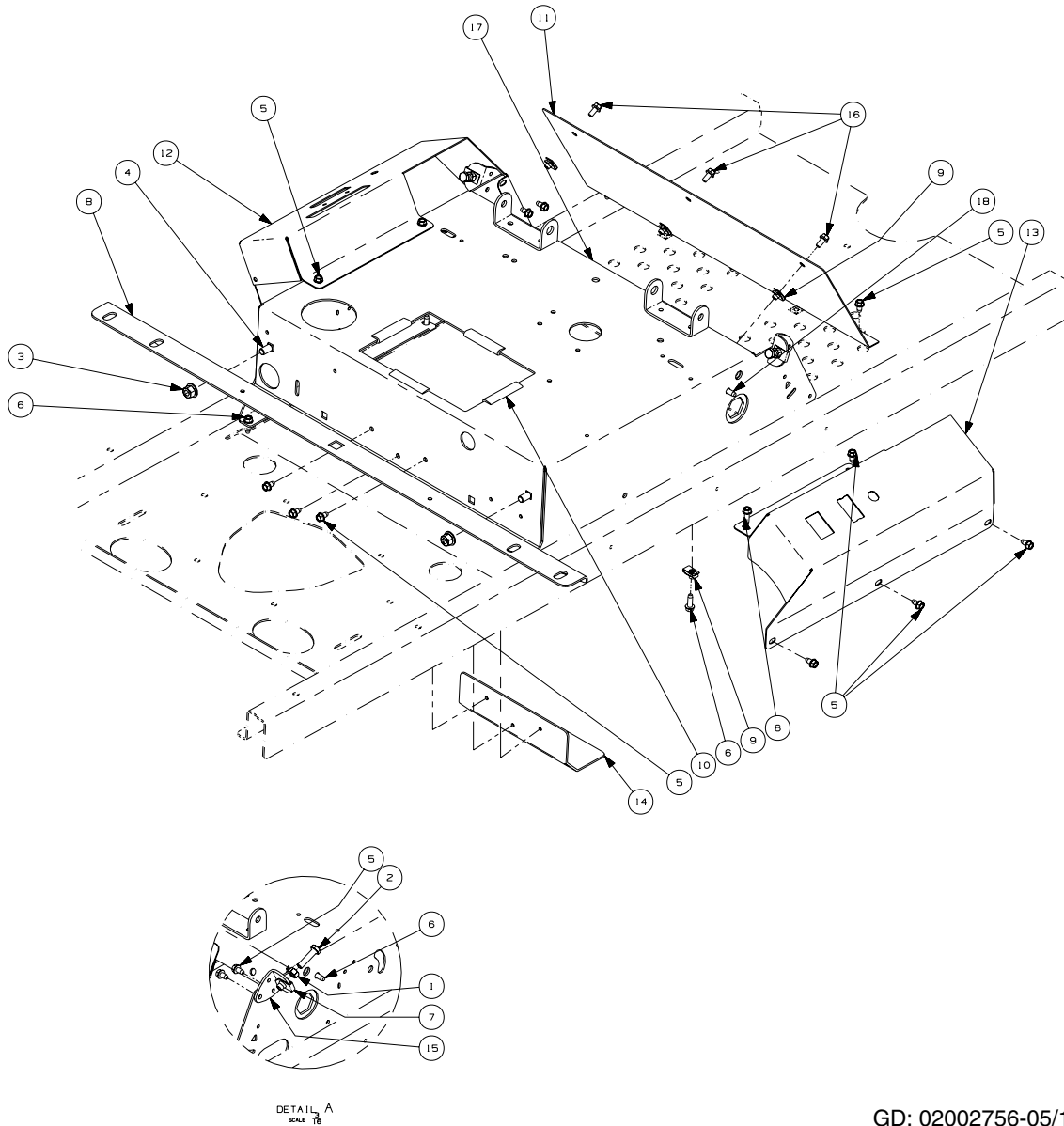


GD: 02004976-11/15/07

48" Fabricated Deck Spindle Assembly - Parts List for Figure 3

Ref. No.	Part No.	Description	Qty.
1	00002528	Hex Cap Screw, 3/8-16 x 2.00	2
2	00006131	Hex Nut 3/8-16	1
3	00012226	Grease Fitting, 90°	1
4	00022560	Hex Nut, 3/8-16 Flange Lock	6
5	00060078	Grease Fitting, 1/4-28 x 3/16	2
6	01000199	Extension Spring, 1.0 OD x 5.00	1
7	01000302	Shoulder Screw, 7/16-14	1
8	01000364	Hex Carriage Screw, 3/8-16, 1.75	1
9	01000380	Hex Flange Nut, 3/4-16	3
10	01000643	Carriage Bolt, 3/8-16 x 1.00	1
11	01000723	Flat Washer, .406 ID x 1.0 OD x .105	6
12	01001371	Hex Cap Screw 3/8-16 x 2.75	1
13	01002010	Carriage Screw, 3/8-16 x 1.25	1
14	01003123	Spacer, .812 ID x .218	1
15	01003269	Flat Washer, 7/16 ID x 1.75 OD	1
16	01005737	Idler Arm Assembly, Deck Spindle includes:	1
	01000308	Bearing	2
17	01005202	V-Pulley, 4.75 OD	1
18	01009787	V-Belt, B-Section	1
19	01010014	Spacer .760 ID x 2.00 OD x 0.790	4
20	02000071	Spindle Bolt, 3/4-16 x 7.155	1
21	02000154	V-Belt, A-Section	1
22	02000762	Self Tapping Screw 5/16-18 x 1.00	12
23	02000819	Spindle Bolt 3/4-16 x 5.37	2
24	02000948	Nut, 7/16-20, FlangeLock	1
25	02003795	Idler Arm Assembly, Double, includes:	1
	01000308	Bearing	2
26	02003640	Spacer, .39 ID x .625 OD x 1.875	1
27	02003740	Grip, 1.0 x 3.2 x .25	1
28	02004195	Tension Spring Bracket	1
29	02005017	Blade, 17.0, Hi-Lift, 0.756 ID	3
30	02005077	Flat Pulley	2
31	618-04426	Spindle Assembly	3
32	732-3067	Idler Torsion Spring	1
33	737-3000	Grease Fitting	2
34	748-3065A	Spindle Spacer	6
35	750-3119	Spacer .406 ID x 1.0 OD	1
36	756-0399	V-Pulley, 3.5 OD	1
37	756-3089	Pulley	3

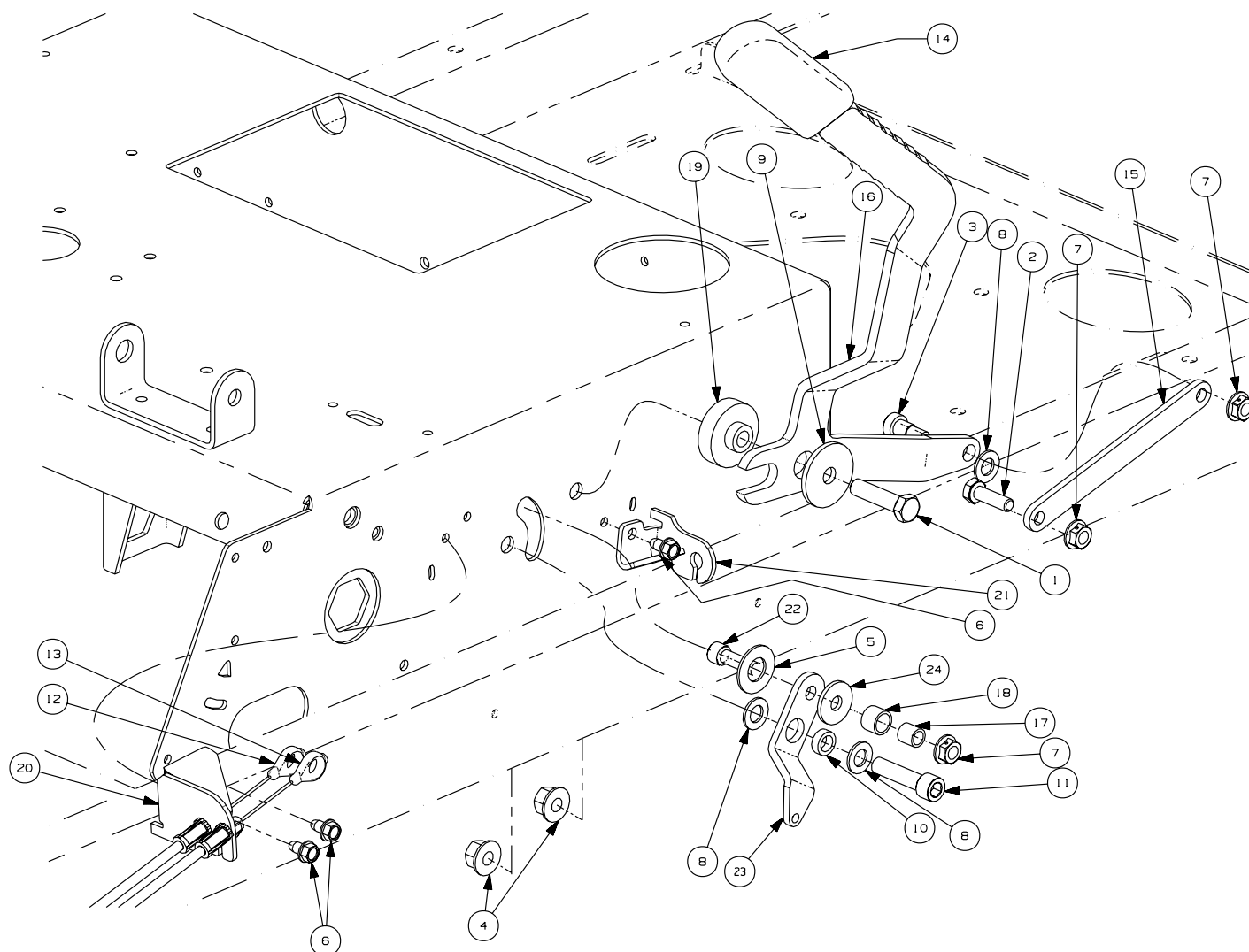
Control Assembly - Figure 4 and Parts List



GD: 02002756-05/15/07

Ref. No.	Part No.	Description	Qty.
1	00012166	Hex Nut, 5/16-18	2
2	00013116	HHCS, 5/16-18 x 1-1/4	2
3	00022560	Hex Nut, 3/8-16 Flange Lock	2
4	01000372	Carriage Bolt, 3/8-16	2
5	01000628	Screw, 1/4-20 x 1/2	19
6	01000629	Self Tapping Screw, 1/4-20 x .75	5
7	01003563	U-Nut, 5/16-18	2
8	01008490	Front Tank Mounting Bracket	1
9	01008539	U-Nut, 1/4-20	5
10	01008572	Battery Edge Trim	4
11	02002456	Front Panel	1
12	02002735	Left Hand Control Console	1
13	02002736	Right Hand Control Console	1
14	02002744	Battery Bracket	1
15	02002761	Forward/Reverse Stop Bracket	2
16	02003812	Screw, 1/4-20 x 1/2	3
17	02004348	Control Housing Weldment	1
18	01008620	Self Tapping Screw 5/16-18 x .750	2

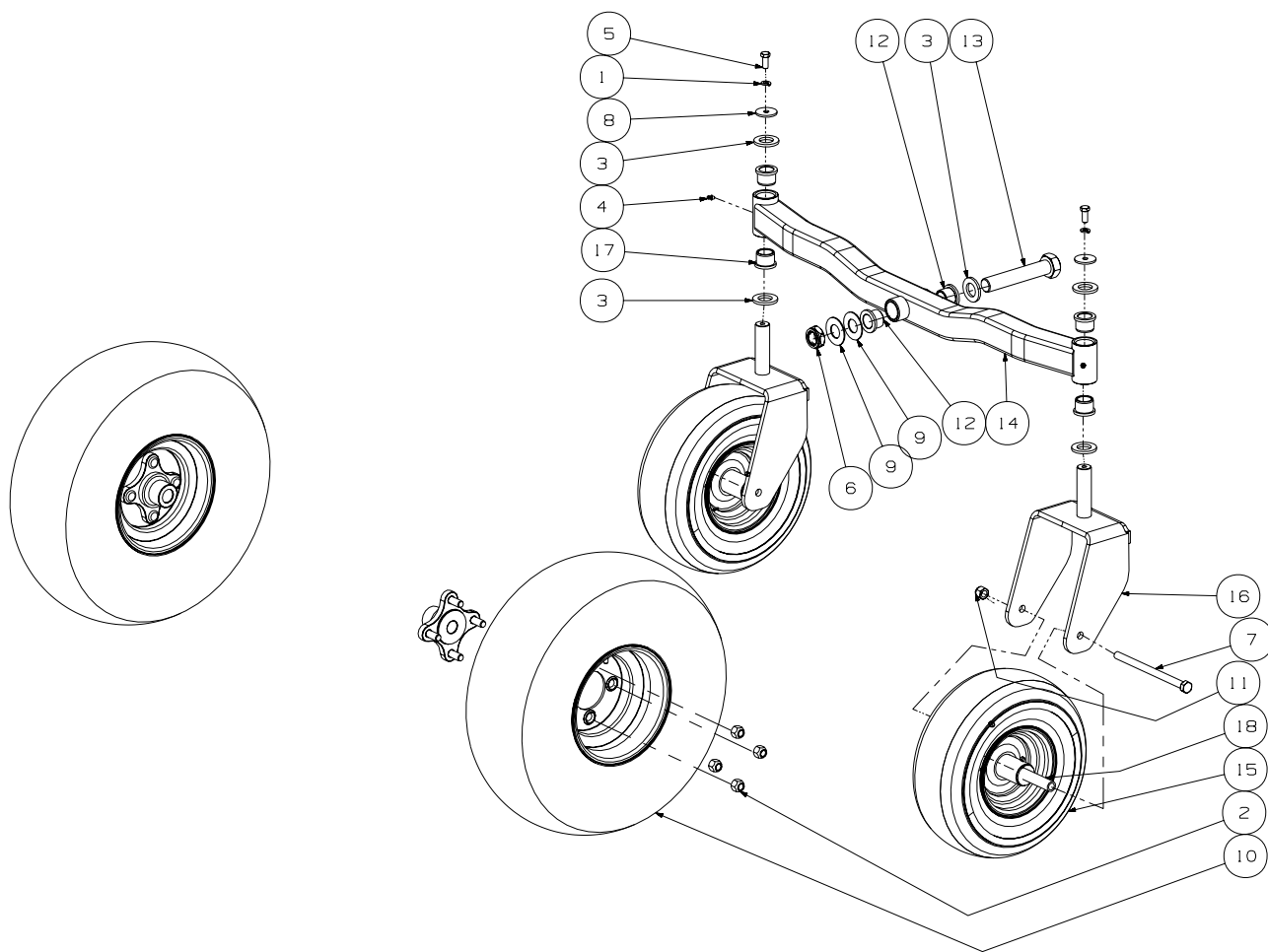
Brake Assembly - Figure 5 and Parts List



GD: 02004047-04/16/07

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	00010980	Hex Head Cap Screw, 3/8-16 x 1.50	1	13	02003729	Right Hand Brake Cable	1
2	00012180	Hex Head Cap Screw, 5/16-18 x 1.00	1	14	02003740	Parking Brake Grip	1
3	00013733	Shoulder Bolt, 3/8 x 3/8	1	15	02003831	Brake Link Plate	1
4	00022560	Hex Nut, 3/8-16 Flange Lock	2	16	02003832	Brake Handle	1
5	01000101	Slide Washer	1	17	02003839	Spacer, .322 ID x .438 OD x .44	1
6	01000628	Screw, TT, 1/4-20, 0.5, Hex Index Washer	3	18	02003840	Spacer, .442 ID x .563 OD x .405	1
7	01000635	Nut, 5/16-18, Flange Lock	3	19	02004045	Step Hub, .379 x 1.5 x .257/.400	1
8	01002710	Washer, .375 x .738 x .063	3	20	02004122	Brake Cable Mounting Bracket	1
9	01009253	Flat Washer, .390 x 1.5 x .134	1	21	02004123	Brake Cable Mounting Bracket	1
10	02002885	Spacer, .380 x .563 x .196	1	22	02004124	Sockethead Capscrew, 5/16-18 x 1.00	1
11	02003717	Sockethead Capscrew, 3/8-16 x 1.50	1	23	02004174	Lockout Lever Plate	1
12	02003728	Left Hand Brake Cable	1	24	736-3089	Washer, .345 x 1.00 x .100	1

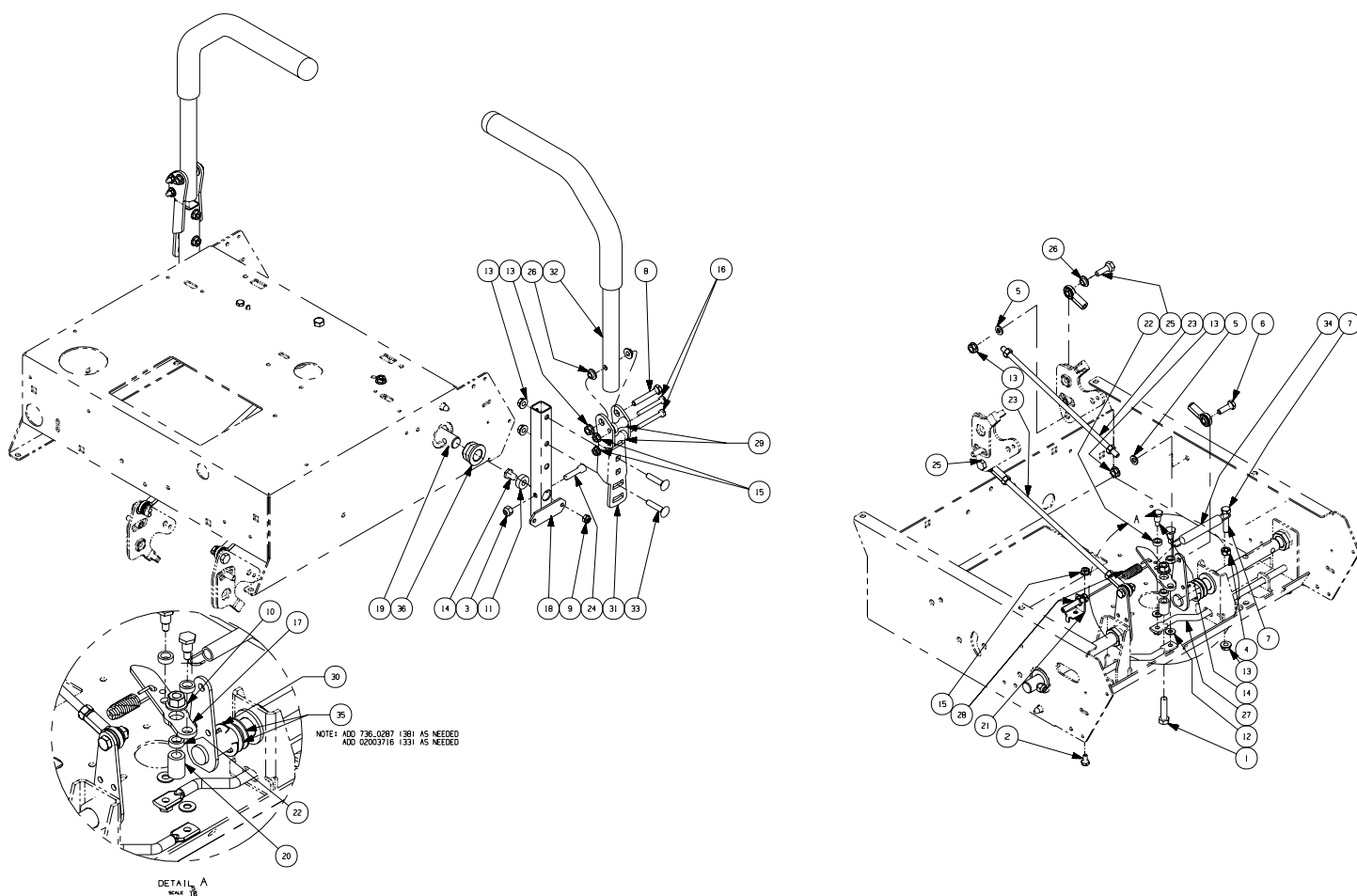
Front Caster & Tire Assembly - Figure 6 and Parts List



GD: 02005008-10/04/07

Ref. No.	Part No.	Description	Qty.
1	00012157	Lock Washer, 3/8 Zinc	2
2	00012187	Lug Nut, 1/2-20	8
3	00023822	Washer Special	5
4	00060078	Grease Fitting, 1/4-28 x 3/16	2
5	01000368	Hex Cap Screw, 3/8-16 x .88	2
6	01000678	Nut Jam, 1.0-14, Nylon Insert	1
7	01006961	Hex Cap Screw, 1/2-20 x 7.50	2
8	01009253	Washer, 5/16-18	2
9	02000588	Flat Washer, 1.00 ID x 2.25 OD x .075	2
10	02000966	Wheel Assembly 20 x 8 - 10	2
11	02002299	Nut, 1/2-20, Lock	2
12	02003599	Flange Bearing, 1.001 ID	2
13	02003804	Hex Cap Screw, 1-14 x 5.5	1
14	02004600	Front Axle Assembly	1
15	02004999	Wheel Assembly 13 x 5 - 6	2
16	02005001	Castor Wheel Mounting Bracket	2
17	731-0374	Flange Bearing, 1.0 ID	4
18	750_04775A	Spacer, .51 ID x .75 OD x 5.825	2

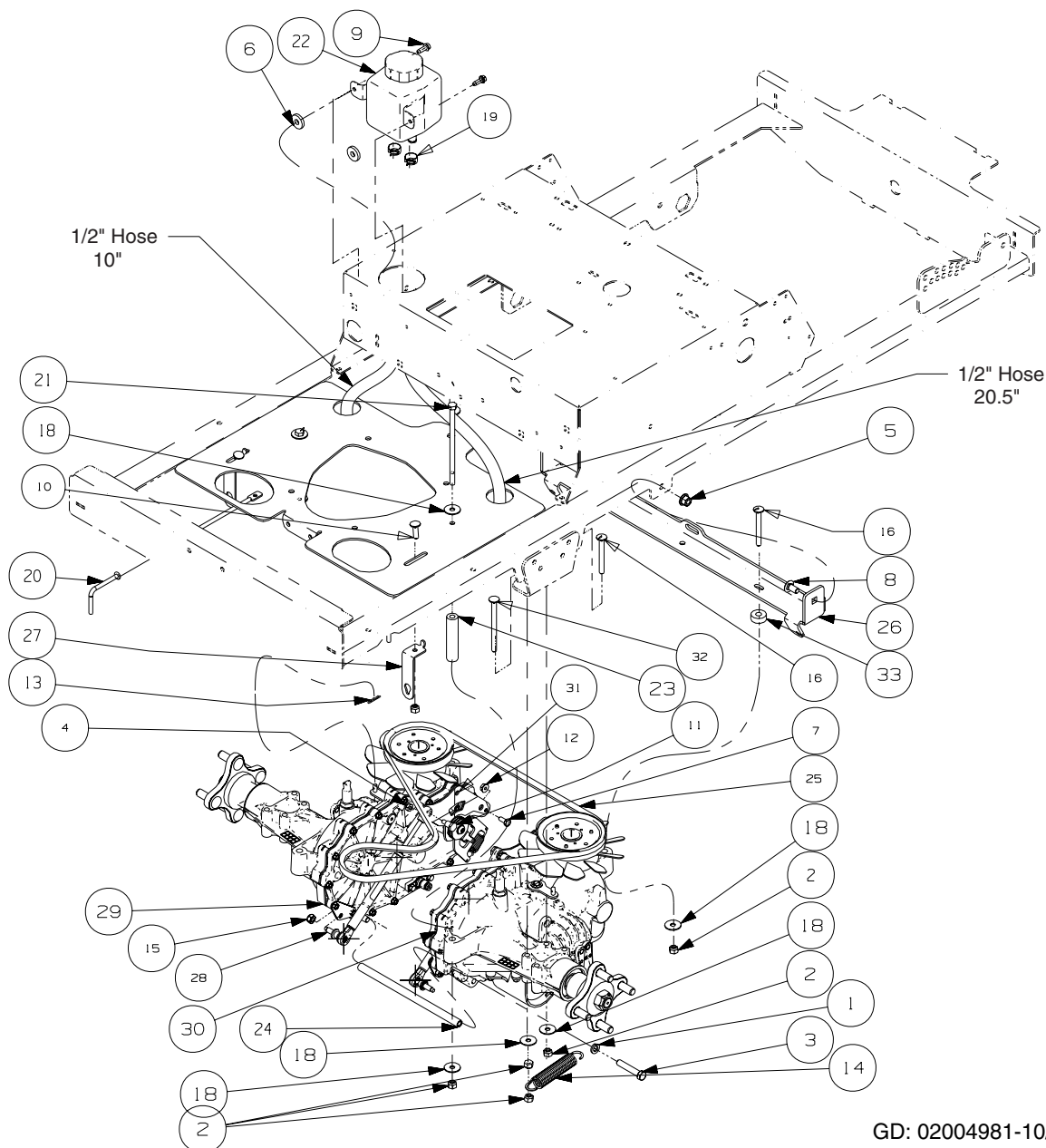
Steering Assembly -Figure 7 and Parts List



GD: 02005118-10/16/07

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	00011438	Hex Cap Screw, 3/8-16 x 1-1/2	1	20	02002844	Spacer, .385 ID x .625 OD x .869	1
2	00012133	Hex Cap Screw, 1/4-20 x 1/2	1	21	02002864	Brake Cable Mounting Bracket	1
3	00012165	Nylock Nut, 5/16-18	2	22	02002885	Spacer, .380 x .563 x .196	3
4	00012166	Hex Nut, 5/16-18	1	23	02002992	Steering Link Rod	2
5	00012169	Flat Washer, 5/16	4	24	02002994	Socket Head Capscrew, 5/16-18 x 1.25	2
6	00012180	Hex Head Cap Screw, 5/16-18 x 1.00	2	25	00013116	HHCS, 5/16-18 x 1-1/4	2
7	00012382	Hex Cap Screw, 5/16-18 x 1-1/2	1	26	02003419	Bushing, .310 x .172 x .688 x .06	6
8	00013198	Hex Cap Screw, 5/16-18 x 2.00	2	27	02003560	Control Lock Rod	2
9	00014081	Nut, 1/4-28, SS, Nylon Insert	2	28	02003568	Control Cable Lock Out	1
10	00022560	Nut, Flange Lock, 3/8-16	1	29	02003644	Spacer, .25 ID x .38 OD x 1.13	4
11	00071691	Control Rod Spacer	2	30	02003716	Retainer Ring, E-Clip	2
12	01000600	Flat Washer, 1.4 x .630 x .0515	2	31	02003853	Lapbar Pivot Bracket	2
13	01000635	Nut, 5/16-18, Lock	11	32	02003855	Lapbar Assembly includes:	2
14	01001919	Shoulder Screw, 1/4-28	4		02003857	Control Handle Pivot Tube	
15	01002766	Nut, 1/4-20, Hex Flange Lock Nut	6		02002662	Grip, 1.0	
16	01006898	Hex Cap Screw, 1/4-20 x 2.00	4	33	710-0262	Carriage Bolt, 5/16-18 x 1.50	4
17	02002684	Brake Lever Plate	1	34	732-0470A	Extension Spring, .53 OD x 4.7	1
18	02002687	Pivot Bracket Weldment	2	35	736-0287	Flat Washer, .793 ID x 1.24 OD x .060	4
19	02002723	Steering Input Shaft Assembly	2	36	741-0598	Hex Flange Bearing, .752 ID	4

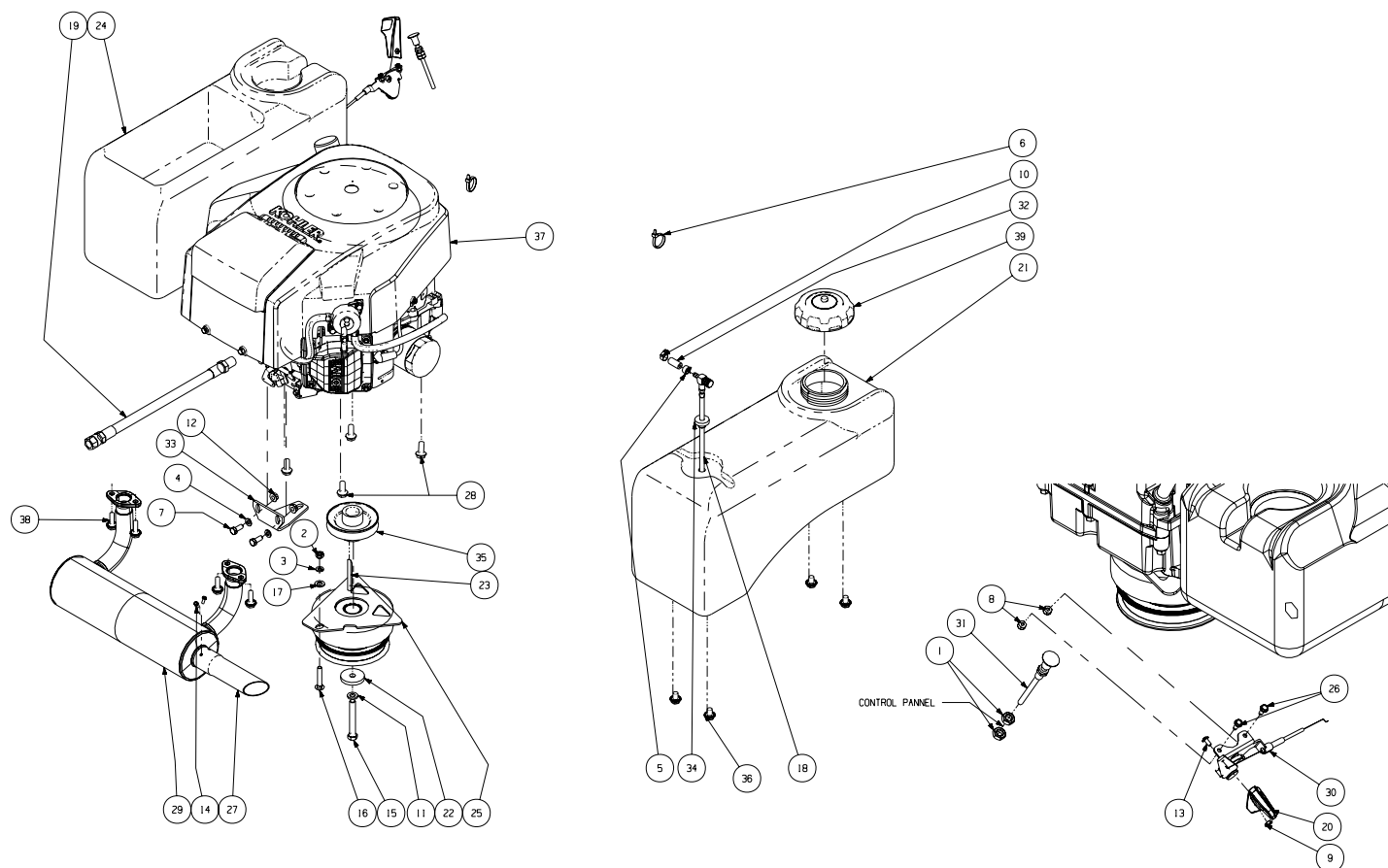
Drive Train Assembly- Figure 8 and Parts List



GD: 02004981-10/24/07

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	00012157	Lock Washer, 3/8 Zinc	2	19	02001111	Hose Clamp	4
2	00012165	Nylock Nut, 5/16-18	12	20	02001332	Pump Rod	2
3	00012172	Hex Cap Screw, 3/8-16 x 2.00	2	21	02001556	Hex Cap Screw, 5/16-18 x 6.00	2
4	00014081	Nut, 1/4-28, SS, Nylon Insert	2	22	02001578	Hydraulic Tank	1
5	00022560	Nut, Flange Lock, 3/8-16	2	23	02002646	Spacer, .375 ID x .75 OD x 3.30	2
6	00083192	Idle Washer	2	24	02002647	Transmission Support Tube	1
7	01000338	Hex Cap Screw 1/4-20 x .620	2	25	02002648	V-Belt, 58.4	1
8	01000372	Carriage Bolt, 3/8-16	2	26	02002679	Transmission Front Mounting Bracket	1
9	01000629	Self Tapping Screw, 1/4-20 x .75	2	27	02002965	Neutral Bracket	2
10	01000641	Carriage Bolt, 5/16-18 x 1.00	2	28	02003622	Cylinder Return to Neutral	2
11	01001919	Shoulder Screw, 1/4-28	2	29	02004678	IZT Transmission, Left hand	1
12	01002766	Nut, 1/4-20, Hex Flange Lock Nut	1		02002150	Filter	1
13	01002771	Cotter Pin, .072 x 1.12 Lg	2	30	02004679	IZT Transmission, Right hand	1
14	01002874	Extension Spring, .865 OD x 4.68 Long	2		02002150	Filter	1
15	01003561	Nut, Hex, Center Lock, M8	2	31	02004681	Return to Neutral Control Bracket	2
16	01005340	Carriage Bolt, 5/16-18 x 2.75	4	32	02005326	Carriage Bolt, 5/16-18 x 4.00	2
17	--	Fuel Hose, .50 ID x .75 OD (in inches)	30.5	33	750-3119	Spacer .406 ID x 1.0 OD	2
18	01009937	Washer, 5/16 x 1.06	10				

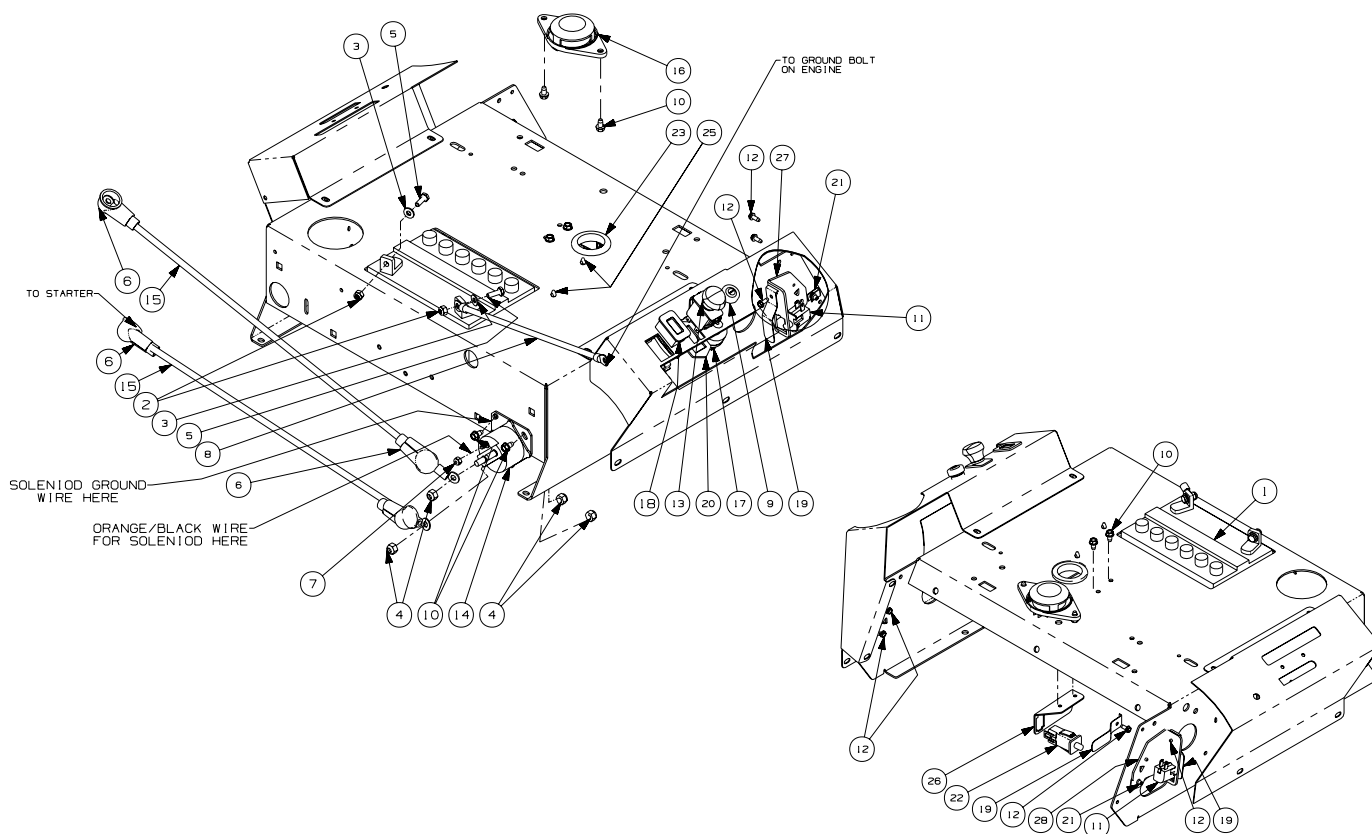
23HP Kohler Engine Assembly - Figure 9 and Parts List



GD: 02005133-12/17/07

Ref No	Part No.	Description	Qty.	Ref No	Part No.	Description	Qty.
1	00011453	Hex Jam Nut, 3/8-24	2	21	01004350	Fuel Tank	1
2	00012166	Hex Nut, 5/16-18	1	22	01005314	Flat Washer, 7/16 ID x 1.75 OD x .250	1
3	00012168	Lock Washer, 5/16	1	23	01007533	Key, 1/4 x 1/4 x 2.75	1
4	00012169	Flat Washer, 5/16	2	24	01008138	Utility Bin	1
5	00012235	Clamp, Union	1	25	01008434	Ogura DX11 Electric Clutch	1
6	00012470	Cable Tie, 3/16 x .05 x 7.4	2	26	01008531	Screw, #10-32 x 0.500	2
7	00013406	Hex Cap Screw, 5/16-18 x .75	2	27	01008623	Exhaust Pipe	1
8	00014608	Lock Nut, Nylon Insert, 10-32	2	28	01009243	Self Tapping Screw, 3/8-16 x 0.875	4
9	00060056	Nut, w/ Star Washer	1	29	02000456	Kohler Muffler	1
10	01000215	Hose Clamp, 1/4-5/8, SS	1	30	02000477	Throttle Control Cable	1
11	01000389	Lock Washer, 7/16	1	31	02000478	Choke Cable	1
12	01000635	Lock Nut, Hex Flange, 5/16-18	2	32	--	Hose, 1/4" Fuel Line	1
13	01000721	Machine Screw, 8-32 x .375	1	33	02001992	Clutch Retainer Assembly	1
14	01000811	Screw, 8-32 x .375, Hex Washer	2	34	02002253	Fuel Tank Grommet	1
15	01000813	Hex Cap Screw, 7/16-20 x 3.0	1	35	02003417	Transmission Drive Pulley	1
16	01000956	Carriage Bolt, 5/16-18 x 1.75	1	36	02005013	Hex Head Cap Screw, 3/8-16 x 1.00, Flange Whiz	8
17	01002710	Washer, 3/8 x .738 x .063	1	37	02005087	23HP Kohler Engine	1
18	01003116	Fuel Pickup Fitting	1	38	02005299	Hex Head Cap Screw, 5/16-18 x 1.00, Flange Whiz	4
19	01003283	Oil Drain Extension Hose	1	39	751-3124D	Fuel Cap	1
20	01004004	Throttle Control Knob	1				

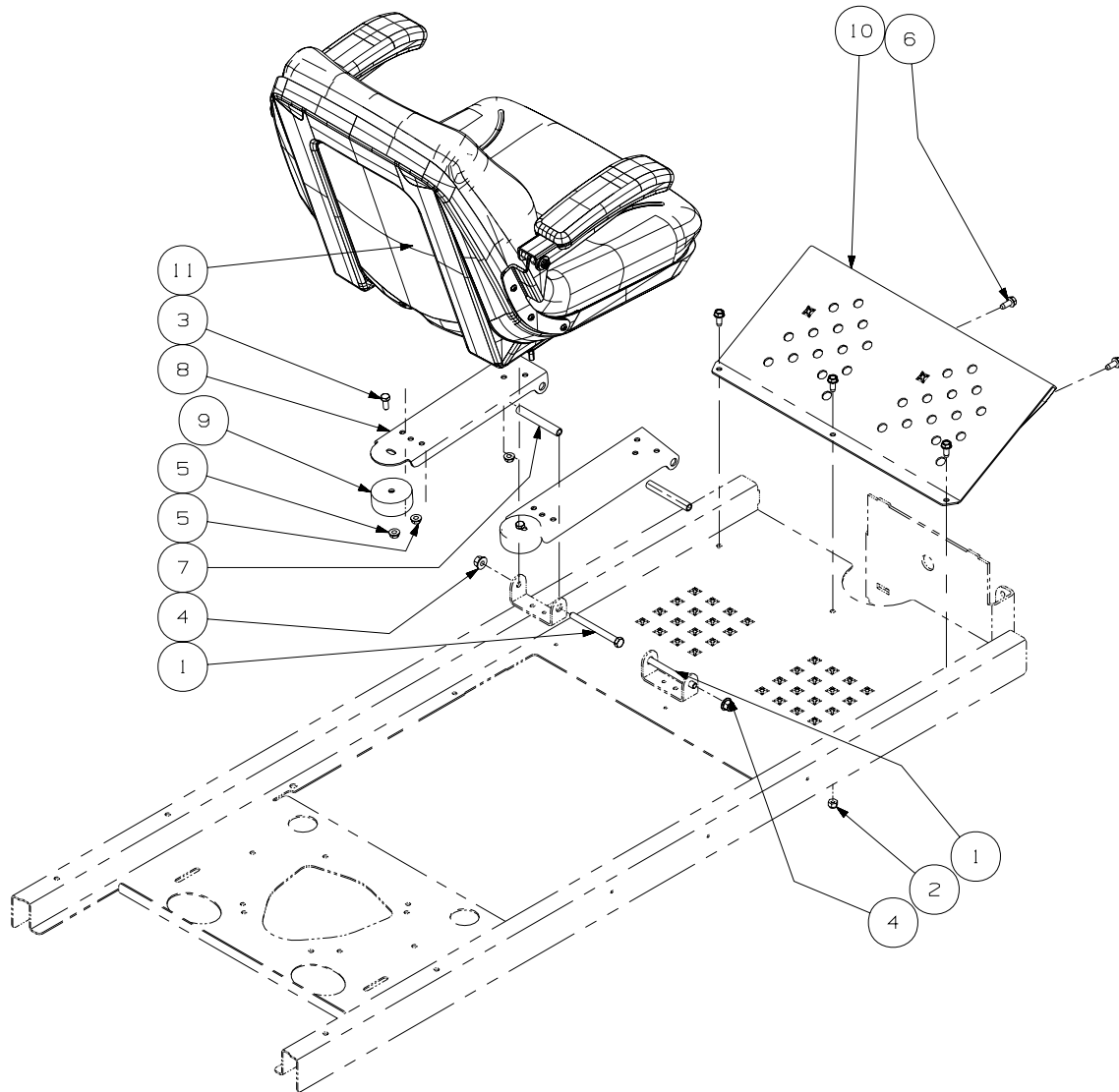
Electrical Assembly Kohler - Figure 10 and Parts List



GD: 02005134-12/04/07

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	00012032	Battery, 12V 225CCA 30Min	1	16	01003277	Normally Closed Seat Switch	1
2	00012152	Lock Nut, Nylon Insert, 1/4-20	2	17	01003581	Switch, Ignition, 6 Pin	1
3	00012154	Flat Washer, 1/4	2	18	01007597	Hour Meter includes:	1
4	00012165	Nut, 5/16-18, Nylock	4		02004259	Clip	1
5	00013131	Hex Cap Screw, 1/4-20 x .75	2	19	01008042	Safety Switch Retainer Spring	3
6	00013258	Boot, 1" OD Rubber Battery-PST Red	4	20	01009905	PTO Switch Bracket	1
7	00014608	Lock Nut, Nylon Insert, 10 - 32	1	21	01009931	U-nut, 10-24	2
8	00024233	Cable, Battery, Black, 17"	1	22	02000024	Switch, Safety N.O./N.C.	1
9	00032097	Nut, 5/8-32, w/Cap	1	23	02001134	Grommet, 1.5 ID x 2.13 OD	1
10	01000628	Self Tapping Screw, 1/4-20 x 1/2	6	24	02002990	Harness Assembly (not shown)	1
11	01001717	Normally Closed Safety Switch	2	25	02003037	Electrical Conduit Clip, 1/2	2
12	01001864	Self Tapping Screw, 10-32 x 1/2	7	26	02003596	Brake Switch Mounting Bracket	1
13	01002111	Electric PTO Switch	1	27	02003926	Bracket, Safety Switch, Right Hand	1
14	01002228	Solenoid Magnetic Switch	1	28	02003927	Bracket, Safety Switch, Left Hand	1
15	01002252	Cable, Battery, Red, 24"	2	29	02005213	Harness Assembly (not shown)	1

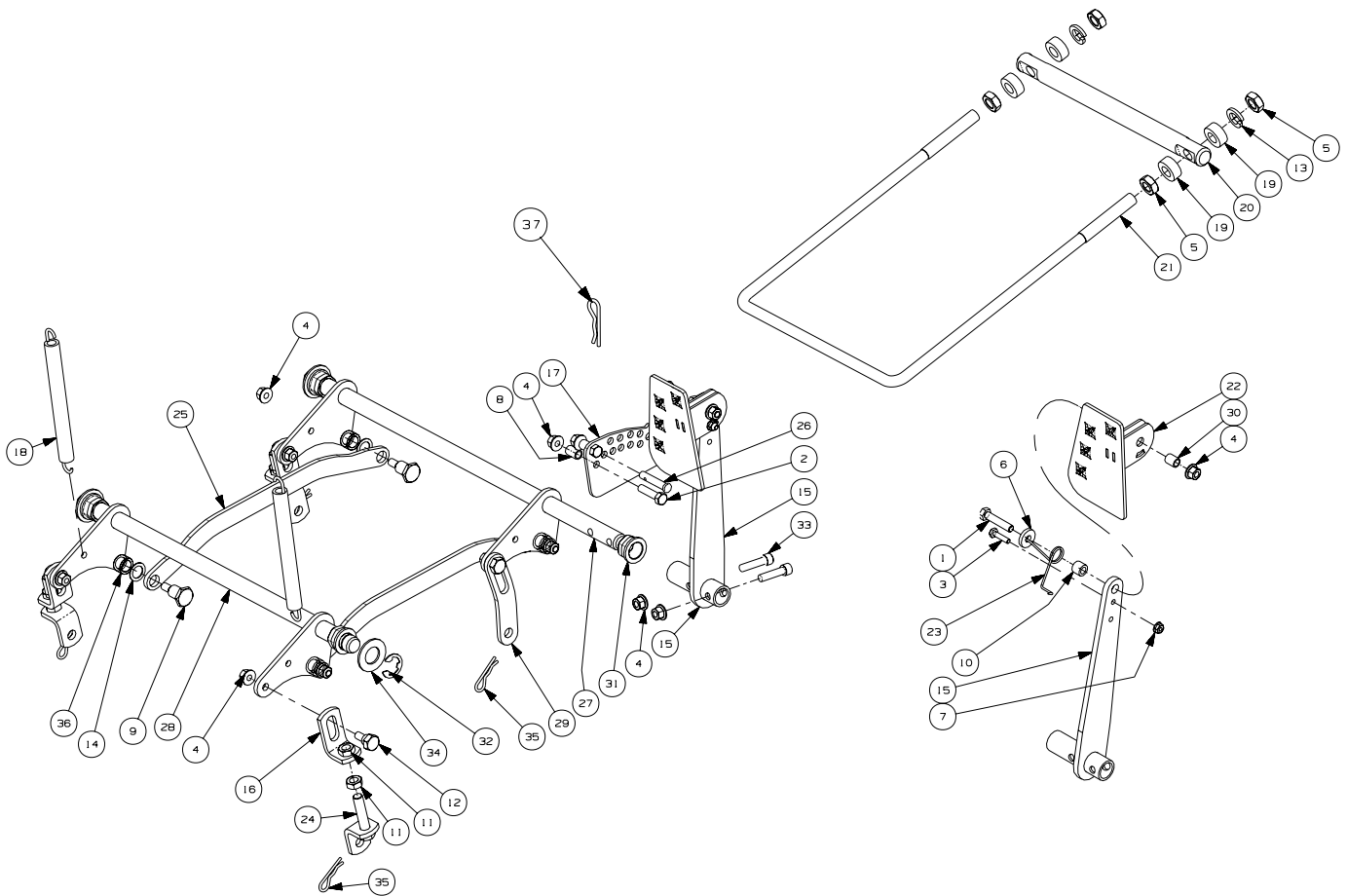
Seat Assembly - Figure 11 and Parts List



GD: 02003443-02/22/07

Ref. No.	Part No.	Description	Qty.
1	00011925	Hex Cap Screw, 3/8-16, 4.00	2
2	00012165	Nylock Nut, 5/16-18	3
3	00013406	Hex Cap Screw, 5/16-18 x .75	2
4	00022560	Flange Lock Hex Nut, 3/8-16	2
5	01000635	Nut, 5/16-18, Hex Flange Lock	6
6	01008620	Self Tapping Screw 5/16-18 x .750	5
7	01009872	Spacer, .370 ID x .500 OD x 3.45	2
8	02002746	Seat Mounting Bracket	2
9	02002952	Bumper, 2.50 OD x 1.13 Long	2
10	02002960	Foot Rest Bracket	1
11	02002975	Seat	1

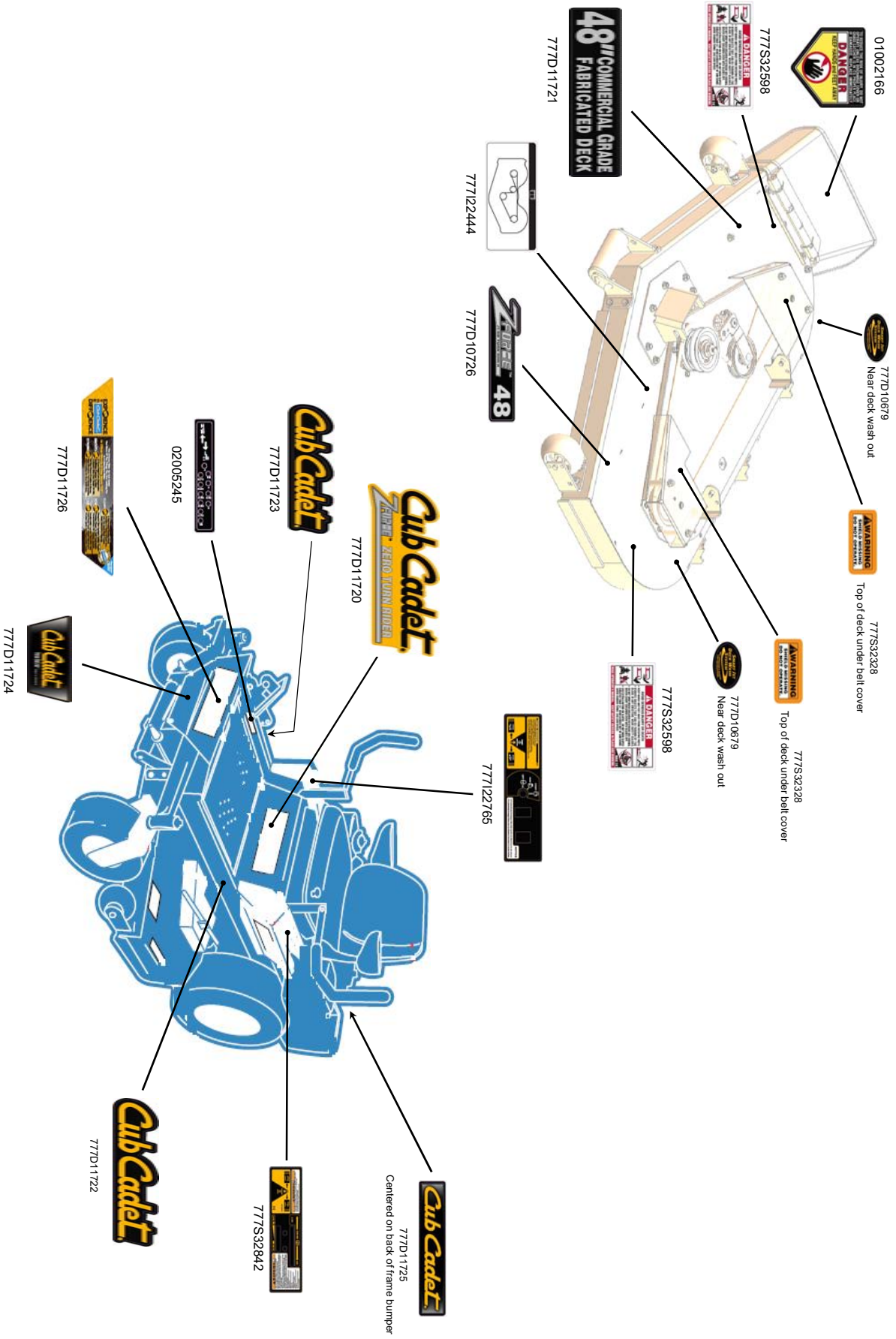
Lift Assembly - Figure 12 and Parts List



GD: 02004983-12/12/07

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	00008495	Capscrew, 3/8-16 x 1-3/4	1	20	02004227	Trail Link Pivot Rod	1
2	00011438	Hex Cap Screw, 3/8-16 x 1-1/2	3	21	02002879	Front Lift Rod	1
3	00013416	Hex Cap Screw, 1/4-20 x 1.00	1	22	02002880	Foot Pedal Assembly	1
4	00022560	Nut, 3/8-16, Hex Flange Lock	14	23	02002882	Foot Lift Torsion Spring	1
5	00035632	Jam Nut, 5/8-11	4	24	02002890	Lower Lift Bracket Assembly	3
6	00083192	Idler Washer	1	25	02002893	Lift Link	2
7	01002766	Nut, 1/4-20, Hex Flange Lock Nut	1	26	02002907	Clevis Pin, .375 x 1.89 x 2.125	1
8	01003468	Spacer, .375 x .50 x .75 Lg	3	27	02002915	Front Shaft Assembly	1
9	01003536	Shoulder Screw, 0.625 OD x .830 Lg.	4	28	02002916	Rear Shaft Assembly	1
10	01007312	Spacer, .625 OD x .385 ID x 1/2	1	29	02002979	Link Plate	1
11	01008658	Jam Nut, 1/2-20	6	30	02003436	Spacer, .380 ID x .500 OD x .605	1
12	02000393	Shoulder Screw, 3/8-16, .56 x .27	4	31	02003685	Hex Flange Bearing, .875 ID	4
13	02000671	Lock Washer, 5/8	2	32	02003716	E Clip, .875 Dia.	3
14	02001891	Washer, 1.00 OD x .625 ID x .048	4	33	02003717	Sockethead Capscrew, 3/8-16 x 1.50	2
15	02002374	Foot Lift Pivot Assembly	1	34	02003720	Flat Washer, .94 x 1.75 x .11	3
16	02002382	Deck Lift Bracket	3	35	02000673	Hair Pin	4
17	02004694	Index Plate	1	36	02005334	Spacer, .628 ID x .875 OD x .500	4
18	02002629	Extension Spring, 8.246 x .75 x .135	2	37	00021956	Hair Pin	1
19	02003751	Spacer, .635 ID x 1.188 OD x .406	4				

48" Decal Map



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