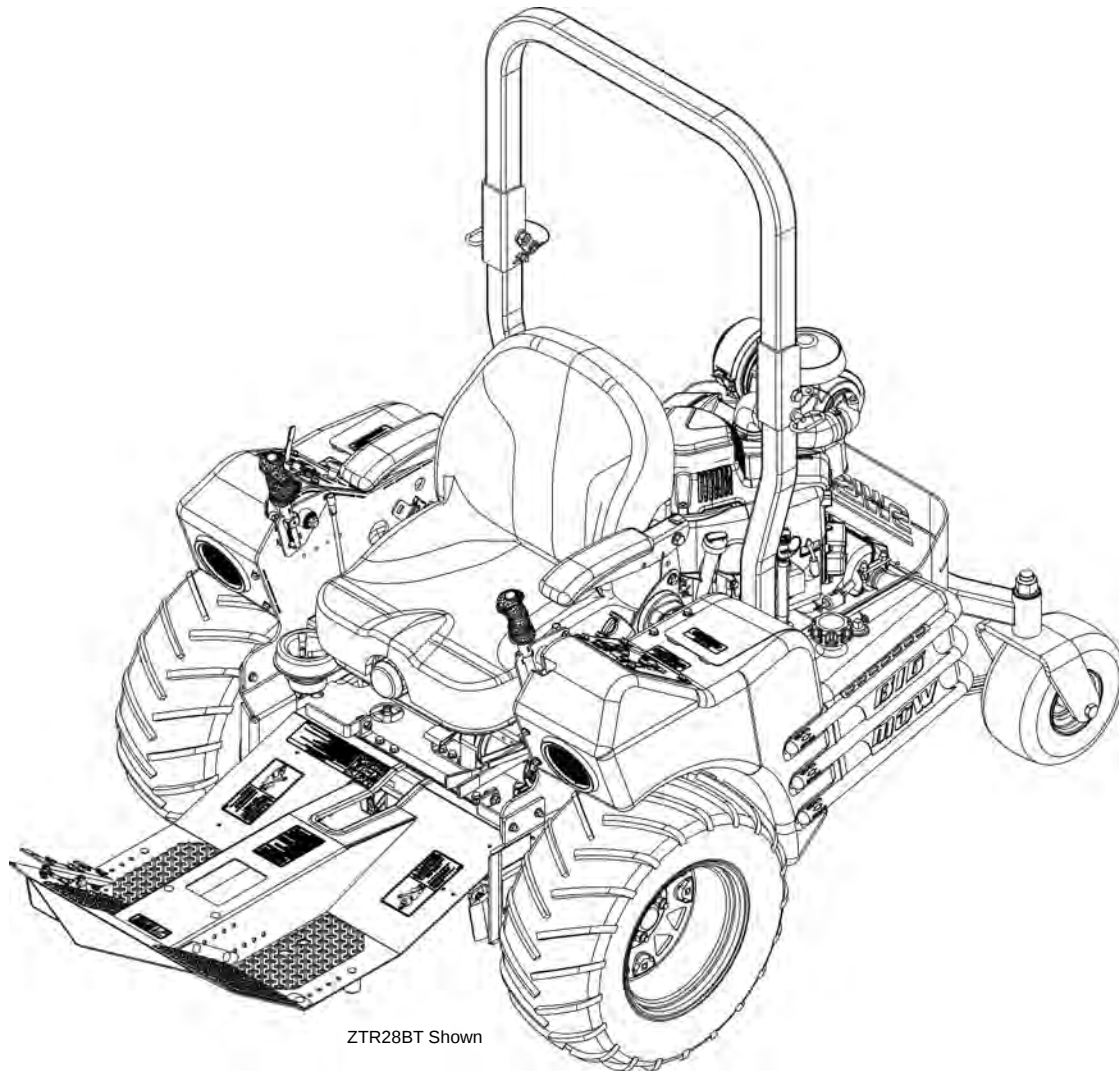




ZTR28BT Shown

Illustrated Parts Manual

STARTING SERIAL # L116-172001

Model #: ZTR28BT
Description: 28HP B&S Vanguard Tractor

Model #: Z31KT
Description: 31HP Kawasaki Tractor

20386 REV 16-172

SWISHER ACQUISITION INC.

1602 Corporate Drive, Warrensburg Missouri 64093

Phone: 660-747-8183 FAX: 660-747-8650 Toll Free: 1-800-222-8183

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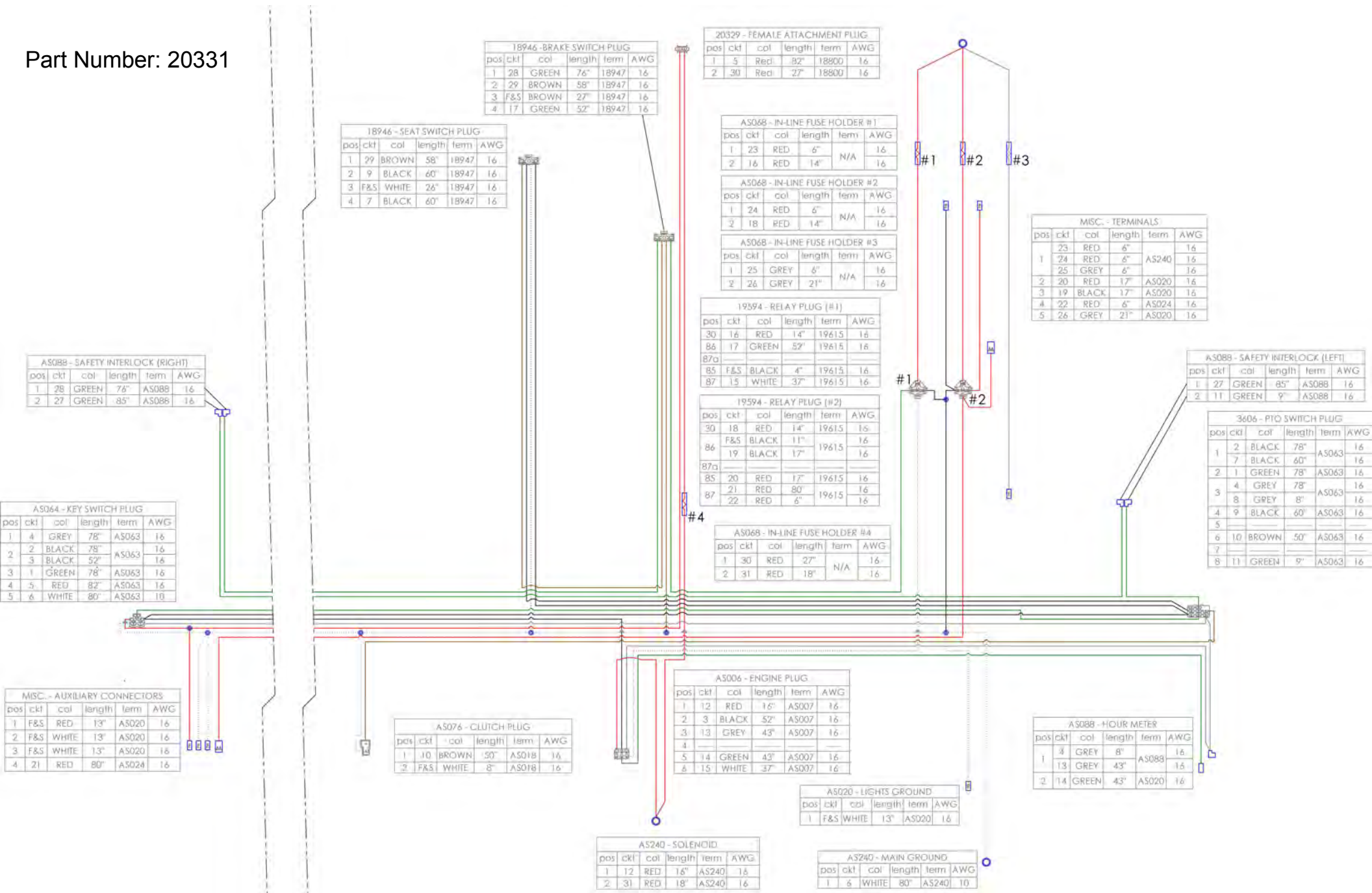


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Electrical Schematic - Main

Part Number: 20331



Electrical Schematic - Winch

Part Number: 20332

FLUX & SOLDER JOINTS					
pos	ckt	col	length	term	AWG
A1	13	BLACK	3"	F&S	10
	5	BLACK	3"		10
	14	BLACK	3"		10
A2	18	BLACK	3"	F&S	10
	14	BLACK	3"		10
	17	BLACK	20"		10
A3	7	RED	3"	F&S	10
	19	RED	3"		10
	20	RED	18"		10
A4	15	BLACK	3"	F&S	10
	16	BLACK	3"		10
	18	BLACK	3"		10
A5	20	RED	18"	F&S	10
	23	RED	3"		10
	22	RED	3"		10
A6	21	RED	3"	F&S	10
	25	RED	3"		12
	26	RED	3"		12
A8	2	RED	19"	F&S	14
	10	RED	88"		14
	24	RED	3"		12

Ø1/4" RING TERMINALS					
pos	ckt	col	length	term	AWG
1	4	RED	50"	AS026	10
2	8	BLACK	50"	AS026	10

19594 - RELAY PLUG (#1)					
pos	ckt	col	length	term	AWG
30	4	RED	50"	20330	10
86	5	BLACK	3"	20330	10
87a	13	BLACK	3"	20330	10
85	3	BLACK	15"	20330	14
	12	BLACK	84"	20330	14
87	7	RED	3"	20330	10

19594 - RELAY PLUG (#1)					
pos	ckt	col	length	term	AWG
30	8	BLACK	50"	20330	10
86	15	BLACK	3"	20330	10
87a	16	BLACK	3"	20330	10
85	6	GREEN	58"	19615	14
87	19	RED	3"	20330	10

18783 - MALE ATTACHMENT PLUG					
pos	ckt	col	length	term	AWG
1	1	GREEN	57"	AS007	14
	9	GREEN	96"	AS007	14
2	6	GREEN	58"	AS007	14

19981 - ROCKER SWITCH PLUG #1					
pos	ckt	col	length	term	AWG
1	1	GREEN	57"	19615	14
2	2	RED	19"	19615	14
3	3	BLACK	15"	19615	14
4					
5					
6					

19981 - ROCKER SWITCH PLUG #2					
pos	ckt	col	length	term	AWG
1	9	GREEN	96"	19615	14
2	10	RED	88"	19615	14
3	12	BLACK	84"	19615	14
4					
5					
6					

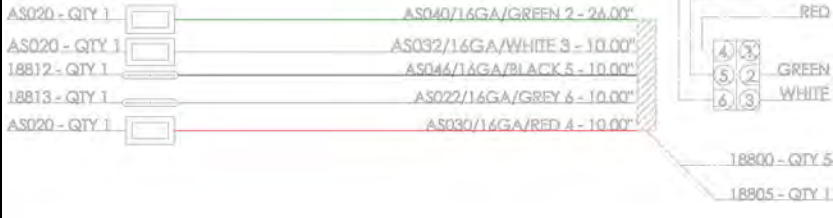
ATC-STYLE FUSE HOLDER					
pos	ckt	col	length	term	AWG
3	24	RED	3"	N/A	12
4	25	RED	3"	N/A	12

MAXI STYLE FUSE HOLDER					
pos	ckt	col	length	term	AWG
1	23	RED	3"	N/A	10
2	22	RED	3"	N/A	10

Ø1/4" BATTERY TERMINALS					
pos	ckt	col	length	term	AWG
B1	17	BLACK	20"	AS026	10
B2	21	RED	3"	AS026	10
	26	RED	3"	AS026	12

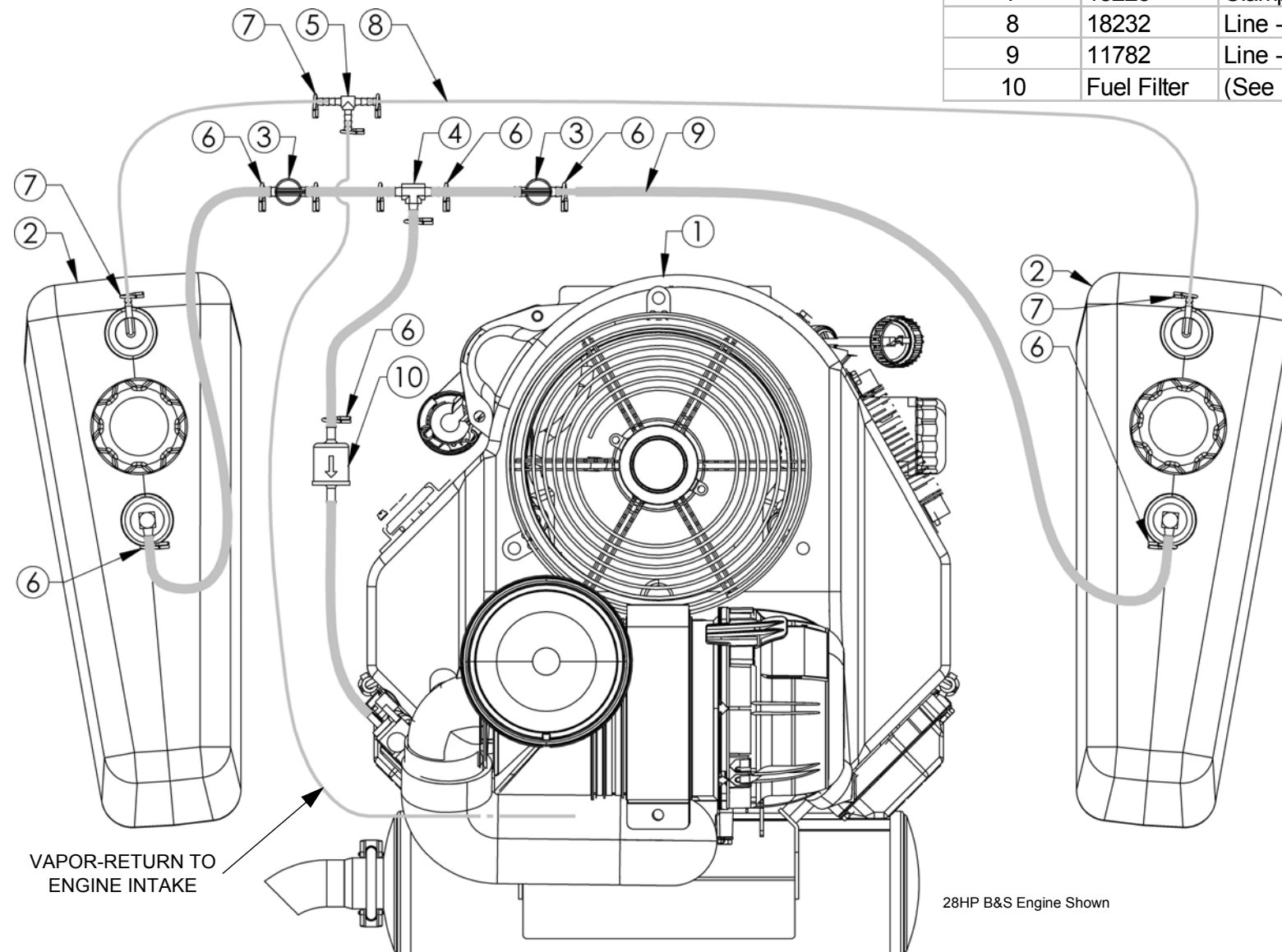
Kawasaki Adapter

Part Number: 20622

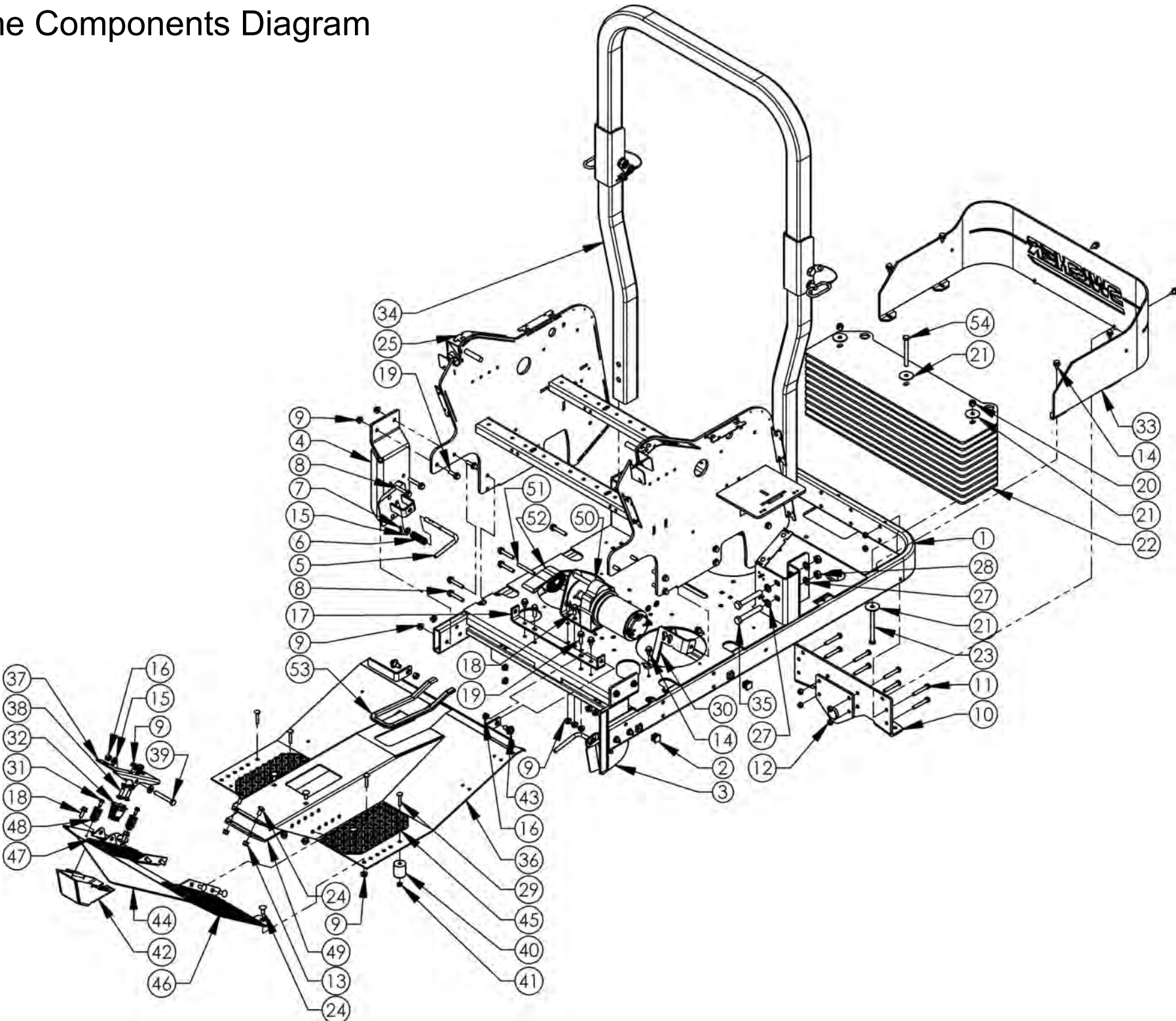


Fuel System Routing

ITEM NO.	PART NO.	DESCRIPTION
1	N/A	Engine - 28HP B&S Vanguard EFI
1	N/A	Engine - 31HP Kawasaki
2	19373	Tank - Fuel, 4 Gallon; Black
3	7414	Valve - Fuel Shut Off (Inline)
4	18228	Tee - Metal, Barbed, 1/4 Tube
5	18231	Tee - Metal, Barbed, 3/16 Tube
6	6FLC	Clamp - Fuel Line Hose; 1/2"OD .092 Diam
7	18223	Clamp - Fuel Line 13/32 OD, 3/16 ID Tube
8	18232	Line - Fuel, Bulk; 3/16" Low Perm
9	11782	Line - Fuel, Bulk; 1/4" Low Perm
10	Fuel Filter	(See Engine Owners Manual)



Frame Components Diagram



Frame Components Parts List

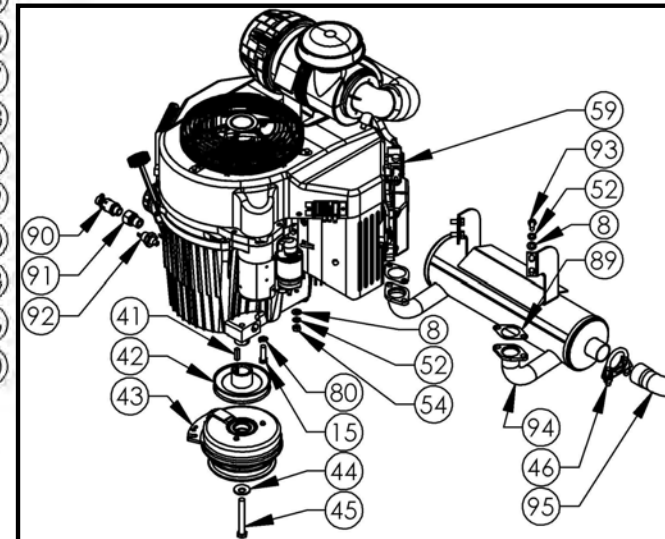
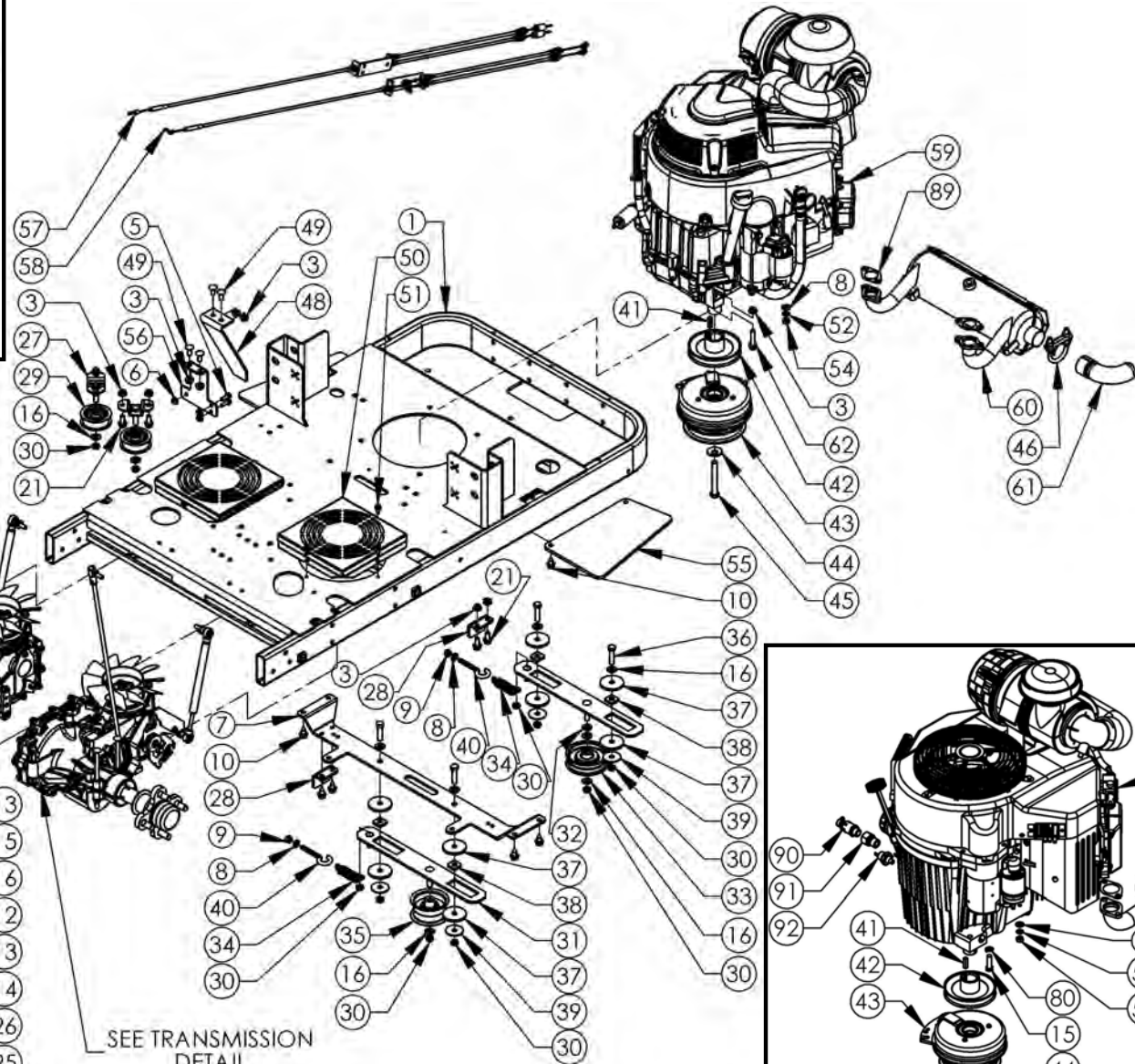
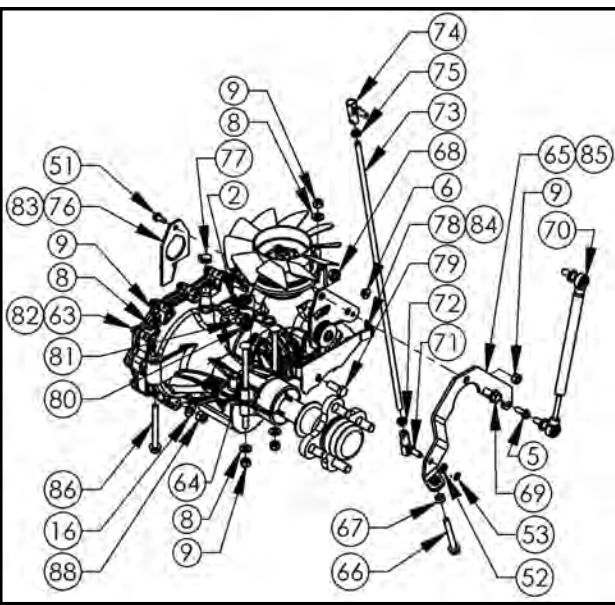
ITEM NO.	PART NUMBER	DESCRIPTION
1	19234*	Weldment - Front Mount ZT Frame
2	18629	Plug - Finishing, 3/4 x 3/4 x .120 Tube
3	19327*	Weldment - Deck Mount, Left
4	19326*	Weldment - Deck Mount, Right
5	19292	Pin - Deck Release
6	12364	Spring - Compression .620ID X 2" ZP
7	19816	Pin - Hair, Ø.054 X 7/8; ZP
8	NB515	Bolt - Serr Flange, 5/16-18 X1 3/4 ZY Gr5
9	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
10	19351*	Weldment - Rear Axle Mount
11	NB507	Bolt - 5/16-18 X 2 HCC GR5 ZY
12	NB558	Nut - Lock, 5/16-18 ZY 2 Way Grade A
13	NB181	Nut - Nyloc 5/16-18 ZY
14	26X249	Screw - .312-18 X .75 Black Zinc
15	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
16	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
17	19648*	Bracket - Foot Pan Mount
18	NB596	Bolt - Serr Flange, 5/16-18 X 3/4 Gr 5
19	10548	Bolt - Serr Flange, 5/16-18 X 1 GR5 ZY
20	NB182	Nut - Nyloc 3/8-16 ZY
21	10177	Washer - Fender 3/8 X 1.5, Crbn Stl GR 2
22	19376*	Plate - 1/4" Ballast, 11 lbs.
23	NB645	Bolt - 3/8-16 X 4 HCC GR5 ZY
24	10216	Bolt - Carriage 5/16-18X3/4 GR5 ZY
25	19288*	Weldment - Seat Mount
26	NB274	Washer - SAE Flat 1/4 ZY
27	NB177	Washer - Mach 1/2 NR 14 GA

ITEM NO.	PART NUMBER	DESCRIPTION
28	NB121	Nut - Jam Lock, 1/2-13 2-Way Gr A
29	NB583	Bolt - Carriage 1/4-20 X 1 1/2 GR2 ZY
30	19321*	Bracket - Cable, Bypass/Brake Mount
31	26X263	Screw - Hex .25-20X0.59
32	19978	Switch - DPDT, 30A, On-Off-On MOM
33	20334*	Wrap - B&S Engine, Swisher
33	19401*	Wrap - Kawasaki Engine, Swisher
34	18860	Kit - ROPS, Fully Assembled; Txt Blk
35	12669	Bolt - 1/2-13 X 3 1/4 GR8 Alloy ZY
36	20307*	Weldment - Foot Pan
37	20368*	Pedal - Attachment Lift, In/Out
38	10197	Bolt - Carriage 5/16-18 X 1 GR5
39	NB221	Bolt - 3/8-16 X 2 1/2 HCC GR5 ZY
40	9931	Bushing - Seat
41	024907	Nut - 1/4-20 2-Way Lock ZY
42	20369*	Bracket - Switch Cover
43	009X58	Bolt - Shoulder, 3/8-16 X 1/2
44	19809*	Weldment - Adjustable Foot Switch Plate
45	19682	Mat - Floor, Diamond Pattern
46	19683	Mat - Foot, Left; Diamond Pattern
47	19684	Mat - Foot, Right; Diamond Pattern
48	19618	Spring - Compression, Ø.875 X 1.5 X .085
49	20328	Glide - Plastic, Foot Pan; Short
50	20326	Winch - Strap Drum, 12V
51	20325	Pin - Ø5/16 x 2.5, HD Dowel; ZP
52	20327	Strap - Winch, 2"
53	AS116	Edge Trim, TrimLok, Black (22")
54	NB649	Bolt - 3/8-16 X 3 1/2 GR5 ZY

When Ordering Replacement Parts:

* = USE PAINT CODE: TK=BLACK, TC=RED

Engine, Transmission & Gearbox Diagram



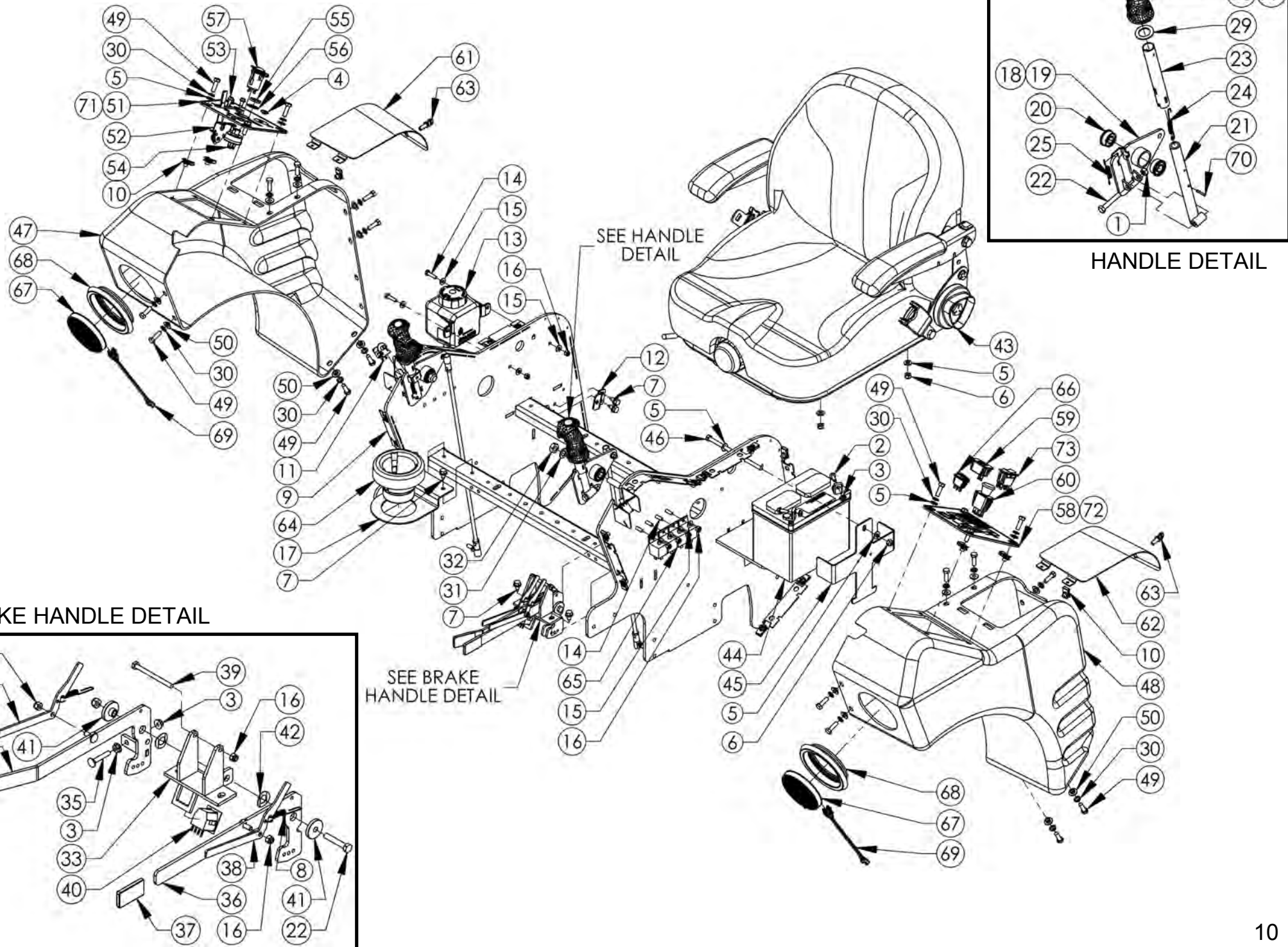
KAWASAKI ENGINE DETAIL

Engine, Transmission & Gearbox Parts List

ITEM NO.	PART NUMBER	DESCRIPTION
1	19234*	Weldment - Front Mount ZT Frame
2	19816	Pin - Hair, Ø.054 X 7/8; ZP
3	NB170	Nut - Serr Flange 5/16- 18 ZY Case Hrd
4	19423	Belt - 76", A- Section; Hydro
5	NB690	Bolt - Serr Flange, 1/4- 20 X 3/4 GR5 ZY
6	NB524	Nut - Serr Flange, 1/4- 20 Grade 5 ZY
7	19301*	Bracket - Rear Frame Brace
8	NB275	Washer - SAE Flat 5/16 ZY
9	NB181	Nut - Nyloc 5/16- 18 ZY
10	26X249	Screw - .312- 18 X .75 Black Zinc
11	19308*	Subassembly - Gearbox Mnt, Input
12	19330	Gearbox - 90°- 1:1, CW Input/CCW Ouput
13	NB638	Key - Woodruff, 3/16 X 3/4 #9
14	19337	Adapter - Ø7/8 to Ø1- 15 Spline
15	NB618	Bolt - 3/8- 16 X 1 1/4 GR5 ZY
16	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
17	NB280	Nut - 2 Way Lock 3/8- 16 ZY & Wax Gr A
18	19283	Pulley - Deck Drive, 5.5"
19	19814	Washer - Belleville 5/8 X 13/4 X .098 ZP
20	19370	Nut - Hex Jam, 5/8- 18 ZY
21	NB596	Bolt - Serr Flange, 5/16- 18 X 3/4 Gr 5
22	10548	Bolt - Serr Flange, 5/16- 18 X 1 GR5 ZY
23	NB674	Bolt - 3/8- 16 X 4 1/2 HCS GR5 ZY
24	19404*	Spacer - Hydro Support Tube
25	18952*	Plate - Brake Spring Return
26	17465	Spring - Extension, Hydro Release, ZT
27	18714*	Weldment - Idler Pulley Offset
28	19309*	Bracket - Idler Tensioner
29	19108	Pulley - Backside Idler, 2.25" OD 3/8"
30	NB207	Nut - Jam, Nyloc 3/8- 16 ZY
31	19303*	Weldment - Hydro/PTO Idler
32	NB196	Washer - Hardened 3/8 ZY
33	B527	Pulley - Idler, OD3.25" ID3/8"
34	7821	Spring - Latch
35	7509	Pulley - Idler OD- 2.75", ID- 3/8"
36	NB107	Bolt - 3/8- 16 X 1 1/2 HCC GR5 ZY
37	18874	Washer - Plastic 2" OD X 3/8" ID X .188
38	18875	Washer - Plastic 7/8 SQ X 3/8" ID X .250
39	10177	Washer - Fender 3/8 X 1.5, Crbn Stl GR 2
40	10198	Eyebolt - 5/16- 18 X 2 1/4 ZY ST
41	9031	Key Stock - 1/4 X 1 Undr Sz Plain Fin
42	19285	Pulley - Engine, Ø1.125" Bore
43	19433	Clutch - Ø1 1/8", 125 ft/lbs
44	10291	Washer - Bellville, .512x1.26x .138 GR2
45	NB705	Bolt - HCF, 7/16- 20 X 3.25 GR5 ZY
46	18876	Clamp - Muffler
47	19424	Belt - 50", A- Section; PTO
48	19449*	Bracket - Clutch Stop, Warner

ITEM NO.	PART NUMBER	DESCRIPTION
49	10216	Bolt - Carriage 5/16- 18X3/4 GR5 ZY
50	18691	Cover - Hydro Fan
51	0025X3	Screw - 1/4- 20 x 1/2, Thread Form Hex
52	NB159	Washer - Split Lock 5/16 ZY Medium Duty
53	NB215	Nut - Hex 5/16- 24 ZY Grade 2
54	NB718	Nut - Hex, M8- 1.25, ZY Class 8
55	19408*	Plate - Gas Tank Mount
56	19690*	Bracket - Brake Bypass Cable Mount
57	19713	Assembly - Dual, Hydro Brake
58	19714	Assembly - Dual, Hydro Bypass
59	N/A	Engine - 28HP B&S Vanguard EFI
59	N/A	Engine - 31HP Kawasaki
60	19818	Muffler - 28HP B&S Vanguard EFI
61	18853	Deflector - Muffler Tum Down, 90°
62	NB254	Bolt - Serr Flange, 5/16- 18 X 1 1/2 Gr5
63	19366	Transmission - Hydrostatic, Left
64	18635	Bolt - Carriage 5/16- 18x6 GR5 FullThread
65	19719*	Weldment - Hydro Control, Left
66	15959	Bolt - Serr Flng 5/16- 18 X 2 1/2 GR5, ZP
67	NB210Z	Nut - 5/16- 18 HNC GR2 ZY
68	NB779	Nut - Serr Flange, Hex ZY 3/8- 16
69	NB780	Bolt - Serr Flange, ZY 3/8- 16X3/4 Gr5
70	18723	Damper - AVM, ZT
71	NB264	Linkage - Ball, Left; Morige
72	NB265	Nut - Jam 5/16- 24 Lft- Hand Thrd ZY Gr2
73	19320	Linkage - 5/16- 18 x 1 RHT & LHT, ZY
74	NB263	Linkage - Ball, Right; Morige
75	NB190	Nut - Jam 5/16- 24 ZY Grade 2
76	18949*	Mount - Brake Cable, Right
77	19665	Clamp - Hose, Ø5/8"
78	18940*	Mount - Bypass Cable, Right
79	NB604	Bolt - 3/8- 16 X 1 GR5 ZY
80	NB711	Washer - Split Lock, 3/8 ZY, Medium
81	NB212	Nut - HNC, 3/8- 16 GR2 ZY
82	19365	Transmission - Hydrostatic, Right
83	18950*	Mount - Brake Cable, Left
84	18941*	Mount - Bypass Cable, Left
85	19718*	Weldment - Hydro Control, Right
86	18580	Bolt - Serr Flange, 5/16- 18 x 3; GR5 ZP
87	20336	Fitting - 60° Hose Barb, SAE 9/16- 18
88	NB182	Nut - Nyloc 3/8- 16 ZY
89	Gasket	(See engine owner's manual)
90	16000	Valve - Oil Drain
91	18810	Adapter - Oil Drain, Kawasaki
92	18809	Sensor - Oil, Kawasaki
93	NB719	Bolt - M8- 1.25 X 20
94	19426	Muffler - Kawasaki, Big Block
95	19427	Elbow - Muffler Tum Down, 45°

Seat Base & Fenders Diagram

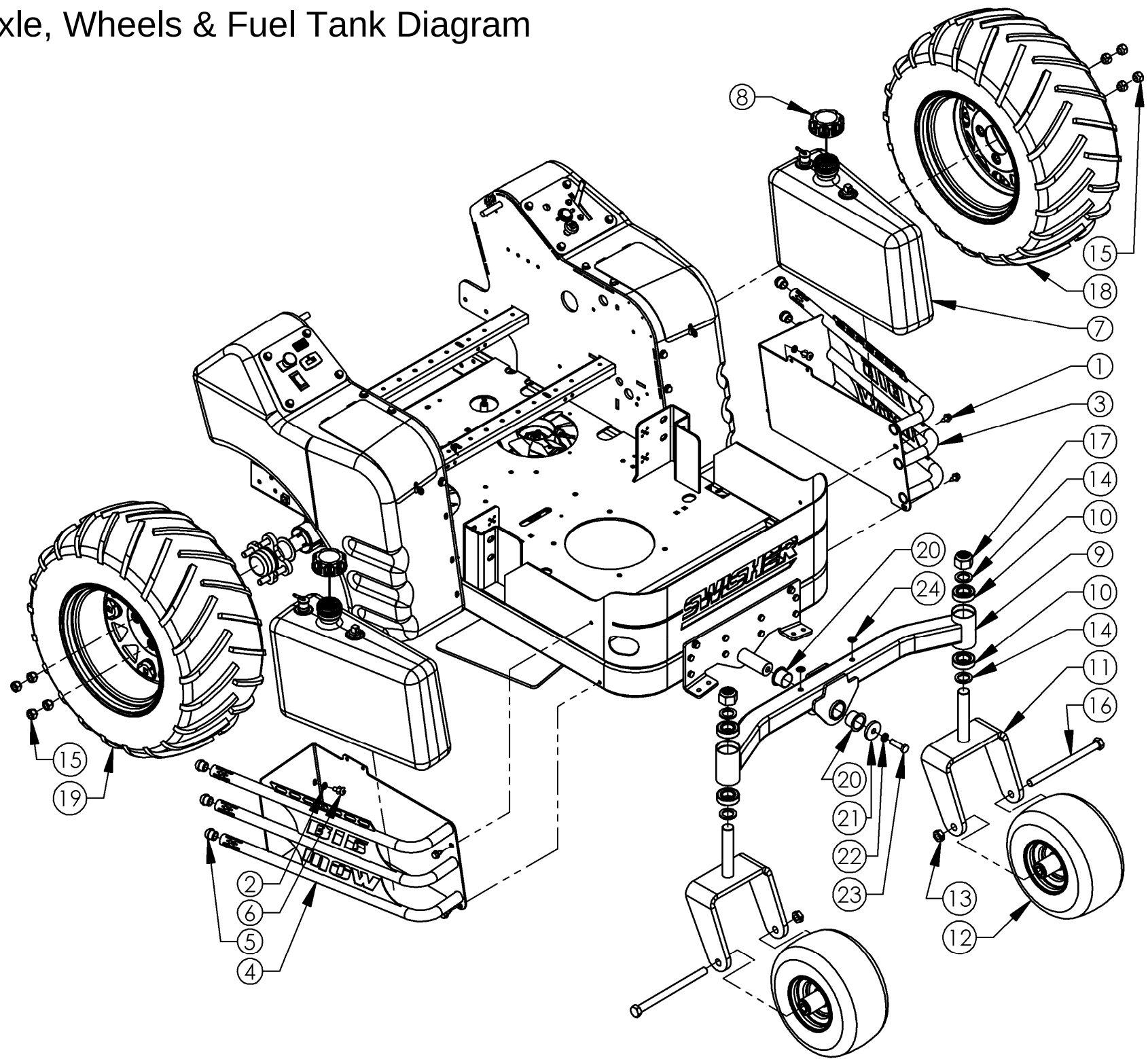


Seat Base & Fenders Parts List

ITEM NO.	PART NUMBER	DESCRIPTION
1	NB558	Nut - Lock, 5/16- 18 ZY 2 Way Grade A
2	NB690	Bolt - Serr Flange, 1/4- 20 X 3/4 GR5 ZY
3	NB524	Nut - Serr Flange, 1/4- 20 Grade 5 ZY
4	18868	Plug - Button, Ø3/8 X 11GA (B&S Only)
4	18606	Cable - Engine Choke (Kawasaki Only)
4	NB711	Washer - Split Lock, 3/8 (Kawasaki Only)
4	NB456	Nut - 3/8- 24 (Kawasaki Only)
5	NB275	Washer - SAE Flat 5/16 ZY
6	NB181	Nut - Nyloc 5/16- 18 ZY
7	26X249	Screw - .312- 18 X .75 Black Zinc
8	17465	Spring - Extension, Hydro Release, ZT
9	19288*	Weldment - Seat Mount
10	3706	Clip - Tinnerman 5/16- 18
11	18636	Switch - Starter
12	19345*	Bracket - Damper Mount
13	19430	Reservoir - Hydros, 2 in 1
14	NB102	Bolt - 1/4- 20 X 1HCC GR5 ZY
15	NB274	Washer - SAE Flat 1/4 ZY
16	NB180	Nut - Nyloc 1/4- 20
17	19335*	Plate - Cup Holder
18	19360*	Weldment - Handle Pivot, Right
19	19359*	Weldment - Handle Pivot, Left
20	MWB	Bearing - Wheel, 1 1/8"OD X 1/2"ID
21	19362Z	Weldment - Handle Tube, Bottom ZP
22	NB503	Bolt - 5/16- 18 X 13/4 HCC GR5 ZP
23	19431Z	Subassembly - Tube Slide, Top ZP
24	19437	Spring - Inner Handle Tension
25	19438	Spring - Outer Handle Release
26	19669	Plug - Ø7/8 x 14- 20 GA; Black Plastic
27	18807	Grip - Hand Conforming, Right
28	18808	Grip - Hand Conforming, Left
29	10161	Washer - 7/8 ID X 13/8 OD 14 GA ZY Grd 2
30	NB159	Washer - Split Lock 5/16 ZY Medium Duty
31	NB177	Washer - Mach 1/2 NR 14 GA
32	NB121	Nut - Jam Lock, 1/2- 13 2- Way Gr A
33	18936*	Weldment - Brake Mount Bracket
34	18931*	Weldment - Brake Arm
35	NB583	Bolt - Carriage 1/4- 20 X 1 1/2 GR2 ZY

ITEM NO.	PART NUMBER	DESCRIPTION
36	18951*	Weldment - Bypass Arm
37	2077	Pivot - Handle Grip, Yellow
38	18933*	Plate - Swivel Lock
39	NB574	Bolt - 1/4- 20 X 3 GR2 ZP
40	18945	Switch - 2 Pole, NC/NO
41	14029	Bushing
42	18937	Washer - Wave, 1/2 ID X 1 OD X .087
43	19367	Seat - Suspension, Armrest; Seatbelts
44	EBAT340	Battery 340 CCA
45	19390*	Bracket - Battery Hold Down
46	NB680	Bolt - 5/16- 18 X 6 1/2 HCC GR5 ZY
47	19374	Fender - Right, Front Mount
48	19375	Fender - Left, Front Mount
49	NB501	Bolt - 5/16- 18 X 1HCC GR5 ZY
50	18717	Spacer - Fender
51	19352*	Panel - Control, Right
52	19402	Cable - Throttle, 55"; Same Throw
53	26X263	Screw - Hex .25- 20X0.59
54	3623	Switch - Key
55	9087	Nut - Key Switch
56	9088	Washer - Lock, Key Switch
57	18745	Adapter - 12V Power Plug
58	19405*	Panel - Control, Left
59	17635	Hour Meter - LCD
60	3605	Switch - PTO
61	19393	Cover - Battery, Right, HC/CF
62	19410	Cover - Battery, Left; HC/CF
63	18802	Screw - Thumb, Shoulder; 5/16- 18 X 3/4
64	1001542	Holder - GA, Beverage
65	15749	Electrical - 12V 30 AMP Relay
66	19680	Switch - Rocker, Illuminated; Red
67	19666	Light - Ø4" White, LED
68	19666G	Grommet - Ø5 1/4, Light Kit
69	19667	Wire Lead - Light Kit, w/ Quickslides
70	19436	Pin - Roll, Ø1/8 X 7/8
71	20365	Decal - Right Control Panel, FM
72	20364	Decal - Left Control Panel, FM
73	19978	Switch - DPDT, 30A, On- Off- On MOM

Rear Axle, Wheels & Fuel Tank Diagram



Rear Axle, Wheels & Fuel Tank Parts List

ITEM NO.	PART NO.	DESCRIPTION
1	26X249	Screw - .312-18 X .75 Black Zinc
2	NB159	Washer - Split Lock 5/16 ZY Medium Duty
3	19378*	Weldment - Tank Surround, Right
4	19398*	Weldment - Tank Surround, Left
5	19384	Plug - Ø1" X 14 GA. Tubing, Dome; Blk
6	19815	Bolt - BHCS, 5/16-18 X 1; ZP
7	19373	Tank - Fuel, 4 Gallon; Black
8	18221	Cap, Fuel - 2.50 Gallon, Carb Sealed
9	19341*	Weldment - Rear Pivot Axle
10	4845	Bearing - .990" ID x 1.990" OD
11	19332*	Weldment - Caster, HD; Front Mount
12	19290	Tire/Wheel - 11 X 6.00-5, Smooth
13	NB595	Nut - Lock Jam, 5/8-11 2 Way Grade A
14	NB614HT	Washer - 1 X 1 1/2 10GA Hardened
15	2203LN	Nut - Lug, Wheel Hub, 1/2-20 ZY GR5
16	18953	Bolt - 5/8-11 X 8 1/2, GR8; ZY
17	NB612	Nut - Nyloc 1"-8 ZY
18	19429R	Tire/Wheel - 23 X 10.5-12 Chevron; Right
19	19429L	Tire/Wheel - 23 X 10.5-12 Chevron; Left
20	A124B	Bushing - Flanged
21	19804*	Washer - Ø7/16 x Ø1 3/4 x 1/4"
22	10146	Washer - Split Lck, 7/16 ZY Med Duty
23	NB637	Bolt-HCF, 7/16-20 X1 1/2 GR5 ZY w/Loctite
24	18868	Plug - Button, Ø3/8 X 11 GA

Notes

Notes

Notes



Illustrated Parts Manual

STARTING SERIAL # L116-001001

Model #: ZTR66FC

Description: 66" Finish Cut Attachment

20387 REV 16-001

SWISHER ACQUISITION INC.

1602 Corporate Drive, Warrensburg Missouri 64093

Phone: 660-747-8183 FAX: 660-747-8650 Toll Free: 1-800-222-8183

Manufacturing quality lawn care equipment since 1945, Celebrating over 70 years of innovation



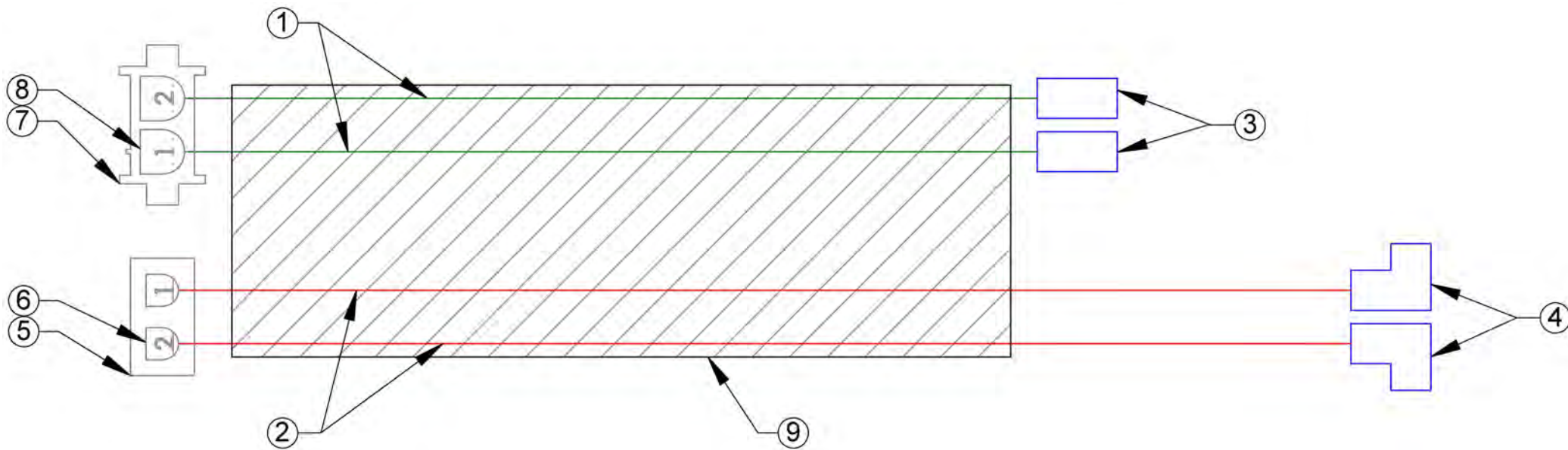
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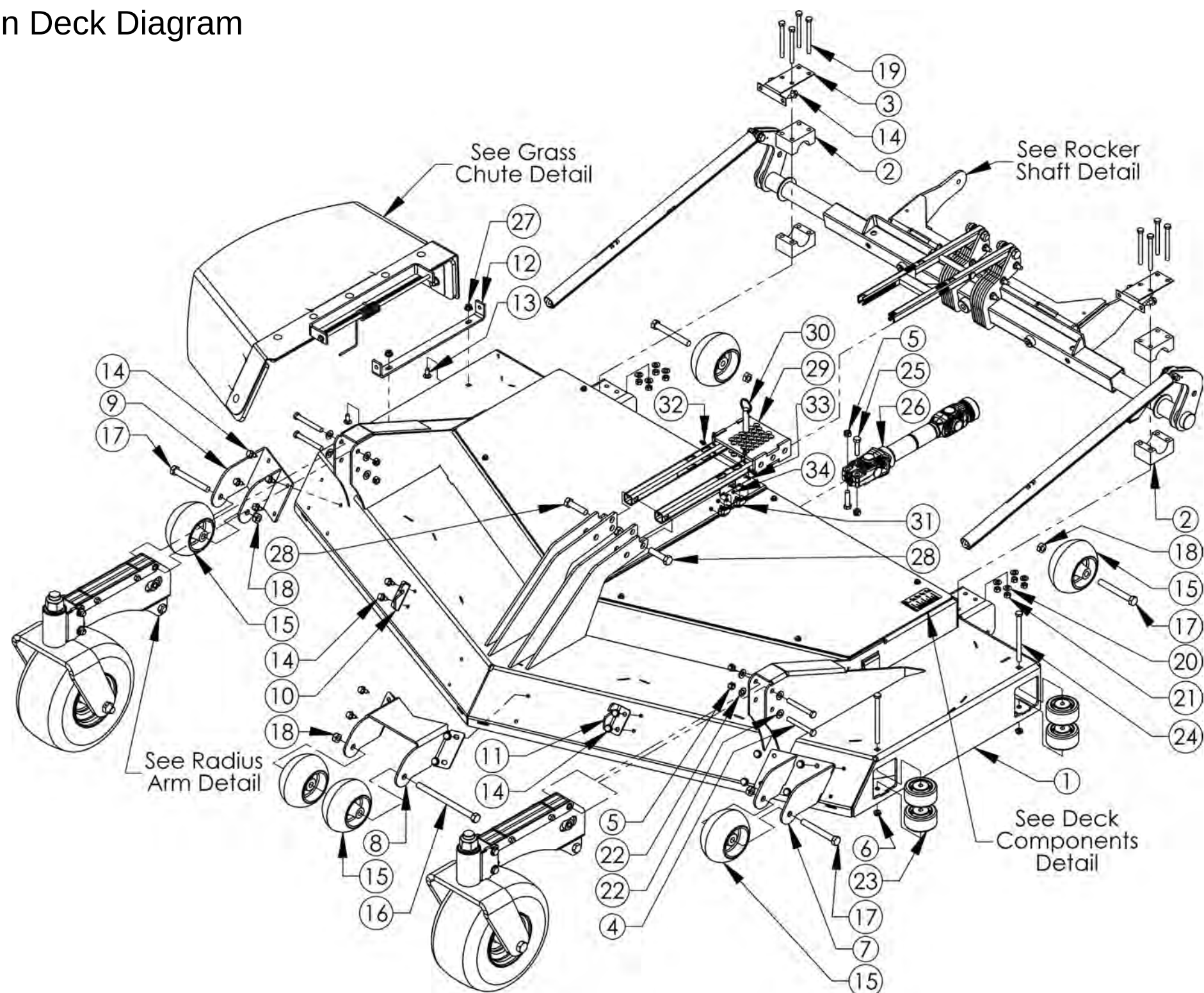
Electrical Schematic

20333 - Wire Harness - Front Mount, ZTR66FC

ITEM NO.	MFG. PART NO.	DESCRIPTION	QTY.
1	N/A	Green, 16 AWG	2 @ 36"
2	N/A	Red, 16 AWG	2 @ 38"
3	19002-0028	MOLEX 3/16" Female, Straight	2
4	19006-0015	MOLEX 3/16" Female, 90° Flag	2
5	50-84-1020	MOLEX 2-Pin Plug; Male	1
6	02-08-2004	Male Pin Terminal,	2
7	50-84-2020	MOLEX 2-Pin Plug; Female	1
8	02-08-1002	Female Pin Terminal	2
9	N/A	Ø3/8" Conduit , Split ; Black	1 @ 35"



Main Deck Diagram



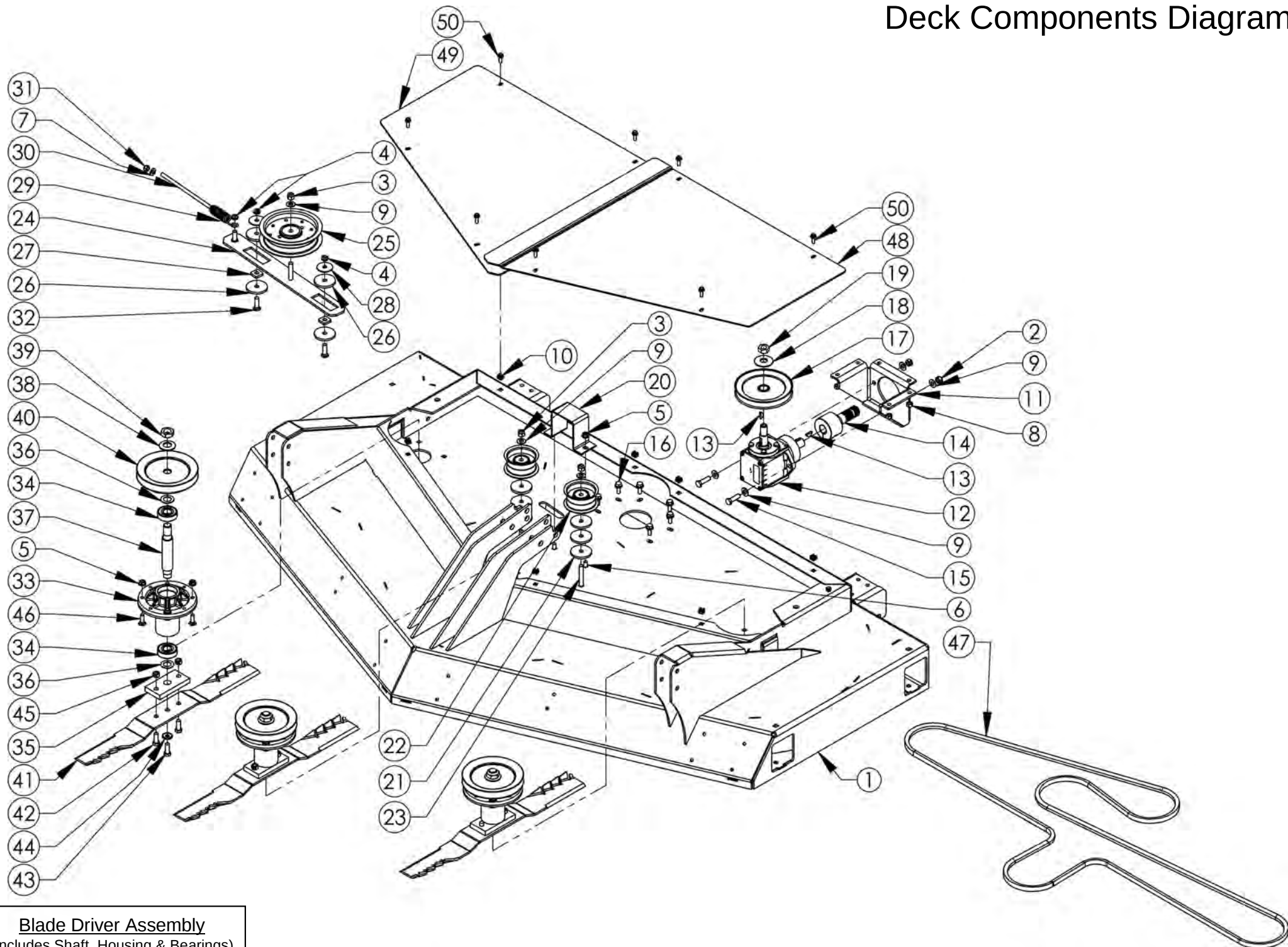
Main Deck Parts List

ITEM NO.	PART NUMBER	DESCRIPTION
1	20303*	Weldment - 66" x 3/16", Front Mount
2	19254	Pillow Block - Half, UHMW
3	19316*	Plate - Pillow Block Cover
4	NB150	Bolt - 3/8-16 X 3 HCC GR5 ZY
5	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
6	NB207	Nut - Jam, Nyloc 3/8-16 ZY
7	19263*	Weldment - Anti-Scalp Bracket, Left
8	19265*	Bracket - Center Anti-Scalp Wheel
9	19264*	Weldment - Anti-Scalp Bracket, Right
10	19728*	Bracket - Chain Mount, Right
11	19727*	Bracket - Chain Mount, Left
12	19297*	Bracket - Grass Chute Mount
13	10216	Bolt - Carriage 5/16-18X3/4 GR5 ZY
14	26X249	Screw - .312-18 X .75 Black Zinc
15	3511	Gauge - Wheel
16	NB108	Bolt - 1/2-13 X 7 HCS GR5 ZY
17	NB132	Bolt - 1/2-13 X 4 HCC GR5 ZY
18	NB121	Nut - Jam Lock, 1/2-13 2-Way Gr A
19	19692	Bolt - Hex, 5/16-18 x 3 1/2; ZP
20	NB275	Washer - SAE Flat 5/16 ZY
21	NB558	Nut - Lock, 5/16-18 ZY 2 Way Grade A
22	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
23	AS001	Roller - Anti-Scalp 3/8 ID
24	NB199	Bolt - 3/8-16 X 5 HCC GR5 ZP
25	NB107	Bolt - 3/8-16 X 1 1/2 HCC GR5 ZY
26	19369	Shaft - PTO Quick Disconnect 1-15 Spline
27	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
28	NB509	Bolt - 1/2-13 X 2 HCC GR5 ZY
29	20317Z	Weldment - Female, Deck Adjustment; ZP
30	20324	Pin - Ø1/2 x 1.5, Ball Lock; ZP
31	19451	Switch - Micro Lever, NC/NO
32	NB704	Fitting - NPT Straight Grease, 1/4-28
33	19601	Screw - 4-40 X 5/8, Pan Head
34	19602	Nut - Kep, 4-40

When Ordering Replacement Parts:

* = USE PAINT CODE: TK=BLACK, TC=RED

Deck Components Diagram



Blade Driver Assembly

(Includes Shaft, Housing & Bearings)

Part # 21008

Deck Components Parts List

ITEM NO.	PART NUMBER	DESCRIPTION
1	20303*	Weldment - 66" x 3/16", Front Mount
2	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
3	NB182	Nut - Nyloc 3/8-16 ZY
4	NB207	Nut - Jam, Nyloc 3/8-16 ZY
5	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
6	10216	Bolt - Carriage 5/16-18X3/4 GR5 ZY
7	NB275	Washer - SAE Flat 5/16 ZY
8	NB558	Nut - Lock, 5/16-18 ZY 2 Way Grade A
9	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
10	19038	Cage Nut - 1/4-20, 11GA
11	19286*	Bracket - Gearbox Mount, Output
12	19329	Gearbox - 90°-1:1, CW Input/CW Output
13	NB638	Key - Woodruff, 3/16 X 3/4 #9
14	19337	Adapter - Ø7/8 to Ø1-15 Spline
15	NB618	Bolt - 3/8-16 X 1 1/4 GR5 ZY
16	NB596	Bolt - Serr Flange, 5/16-18 X 3/4 Gr 5
17	19283	Pulley - Deck Drive, 5.5"
18	19814	Washer - Belleville 5/8 X 13/4 X .098 ZP
19	19370	Nut - Hex Jam, 5/8-18 ZY
20	19339*	Bracket - Pulley Cover Support
21	6040Z	Washer - Idler, ZP
22	7509	Pulley - Idler OD-2.75", ID-3/8"
23	19313	Bolt - Carriage, 3/8-16X2 1/2 GR5 ZClear
24	19300*	Weldment - Deck Idler
25	18607	Pulley - Backside Idler, 5"
26	18874	Washer - Plastic 2" OD X 3/8" ID X .188
27	18875	Washer - Plastic 7/8 SQ X 3/8" ID X .250
28	10177	Washer - Fender 3/8 X 1.5, Crbn Stl GR 2
29	4422	Spring - Idler Tension, Bent Leg
30	19318	Bolt - Spade, 5/16-18 X 8.5 ZY
31	NB181	Nut - Nyloc 5/16-18 ZY
32	10501	Bolt - Carriage 3/8-16 X 1 1/4 GR5 ZY
33	19439*	Housing - Cast Iron Blade Driver, Long
34	B98	Bearing - Blade
35	9008	Plate - Blade Mount
36	NB179	Washer - 3/4 ID X 1 1/4 OD 18 GA ZY
37	19247	Shaft - Blade, 6"; Long Shoulder
38	AS155	Washer - Belleville .760 X 1.5 X .098
39	NB175	Nut - Jam 3/4-16 Gr 2
40	6114	Pulley - Blade, 5.5"
41	12509	Blade - Mulching, 22.5"
42	NB238	Bolt - 3/8-24 X 1 Grade 5 Zinc Yellow
43	NB238N	Bolt - HHC 3/8-24 X 1 GR 5 Nyloc
44	NB607	Washer - SP Bellvl. PLN .413 X.945 X.118
45	NB216	Nut - Lock, Two Way 3/8-24 ZY Gr A
46	10197	Bolt - Carriage 5/16-18 X 1 GR5
47	19422	Belt - 146", A-Section; Deck
48	19260*	Cover - Belt, Left
49	19259*	Cover - Belt, Right
50	NB690	Bolt - Serr Flange, 1/4-20 X 3/4 GR5 ZY

When Ordering Replacement Parts:

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Rocker Shaft Diagram

This technical diagram illustrates the exploded view of a rocker shaft assembly, showing the relationship between various components. The assembly includes a central rocker shaft (1) supported by bearings (2, 7, 11, 12) and a rocker arm (13). The rocker arm is connected to a rocker lever (14) via a rocker pin (15). The rocker lever is connected to a rocker arm (16) via a rocker pin (17). The rocker arm (16) is connected to a rocker lever (18) via a rocker pin (19). The rocker lever (18) is connected to a rocker arm (20) via a rocker pin (21). The rocker arm (20) is connected to a rocker lever (22) via a rocker pin (23). The rocker lever (22) is connected to a rocker arm (24) via a rocker pin (25). The rocker arm (24) is connected to a rocker lever (26) via a rocker pin (27). The rocker lever (26) is connected to a rocker arm (28) via a rocker pin (29). The rocker arm (28) is connected to a rocker lever (30) via a rocker pin (31). The rocker lever (30) is connected to a rocker arm (32) via a rocker pin (32). The diagram also shows the rocker shaft (1) supported by bearings (2, 7, 11, 12) and a rocker arm (13). The rocker arm (13) is connected to a rocker lever (14) via a rocker pin (15). The rocker lever (14) is connected to a rocker arm (16) via a rocker pin (17). The rocker arm (16) is connected to a rocker lever (18) via a rocker pin (19). The rocker lever (18) is connected to a rocker arm (20) via a rocker pin (21). The rocker arm (20) is connected to a rocker lever (22) via a rocker pin (23). The rocker lever (22) is connected to a rocker arm (24) via a rocker pin (25). The rocker arm (24) is connected to a rocker lever (26) via a rocker pin (27). The rocker lever (26) is connected to a rocker arm (28) via a rocker pin (29). The rocker arm (28) is connected to a rocker lever (30) via a rocker pin (31). The rocker lever (30) is connected to a rocker arm (32) via a rocker pin (32).

Rocker Shaft Parts List

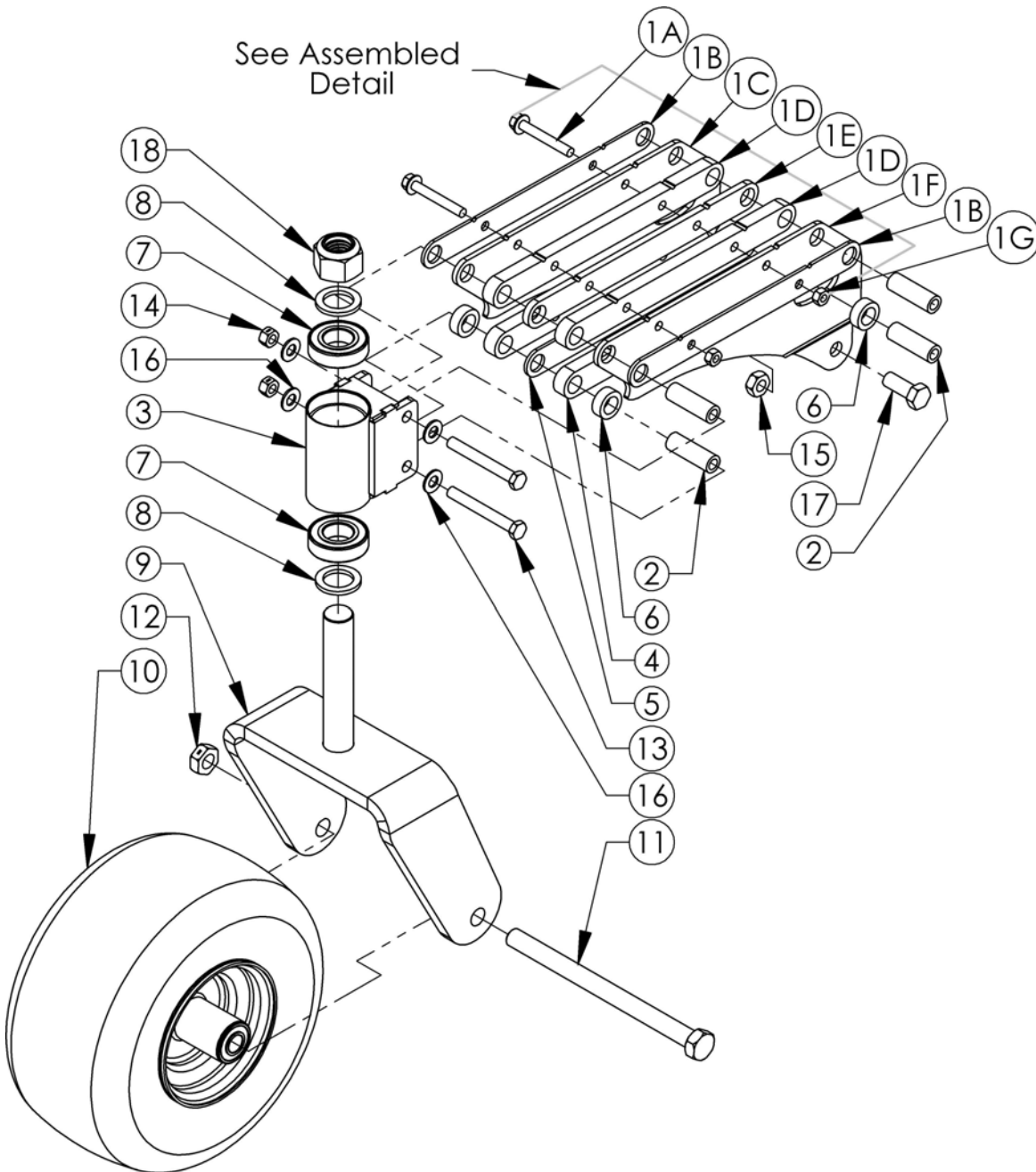
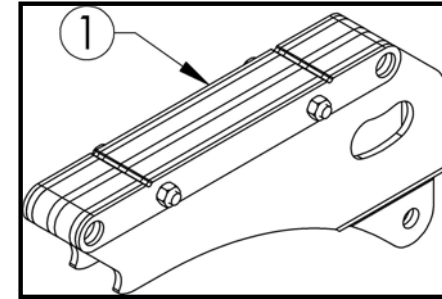
ITEM NO.	PART NUMBER	DESCRIPTION
1	20312*	Weldment - Rocker Shaft
2	19269*	Weldment - Quick Disconnect Deck
3	20321Z	Weldment - Male Tube, Deck Adjustment ZP
4	20322Z	Plate - Pin Stop; ZP
5	20323	Pin - Ø1/2 x 5; ZP
6	NB177	Washer - Mach 1/2 NR 14 GA
7	NB595	Nut - Lock Jam, 5/8-11 2 Way Grade A
8	NB509	Bolt - 1/2-13 X 2 HCC GR5 ZY
9	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
10	NB127	Pin - Hair, #39 (A155H) ZY Std
11	19734Z	Washer - 3/4"ID X 2"OD X 1/4"; ZP
12	13997	Nut - 3/4-10; 2 Way Locking
13	19371	Washer - Ø5/8" X 3/16"; ZP
14	NB121	Nut - Jam Lock, 1/2-13 2-Way Gr A
15	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
16	10177	Washer - Fender 3/8 X 1.5, Crbn Stl GR 2
17	19678*	Plate - Deck Height Indicator
18	NB107	Bolt - 3/8-16 X 1 1/2 HCC GR5 ZY
19	19372	Turnbuckle - 5/16-18, RHT & LHT
20	NB173	Nut - Jam 5/16-18 ZY
21	19432	Nut - Jam, 5/16-18, LHT; ZY
22	NB781	Connector - Chain, 3/16"
23	19452	Bungee - Ø5 1/2" Ring, Ø5/16 Cord
24	19364	Chain - Deck Lift, 13 Links
25	19425	Cover - Fabric Chain Wrap
26	19858	Button - Plastic, Male
27	19859	Spring - Torsion, Deck Height
28	19857	Button - Plastic, Female
29	20310*	Plate - Slide Mount Support, 14 GA
30	20309*	Plate - Slide Mount Support, 1/4"
31	NB622	Bolt - Serr Flange, 5/16-18X2 1/4 GR5 ZY
32	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd

When Ordering Replacement Parts:

* = USE PAINT CODE: TK=BLACK, TC=RED

Radius Arm Diagram & Parts List

Assembled Detail

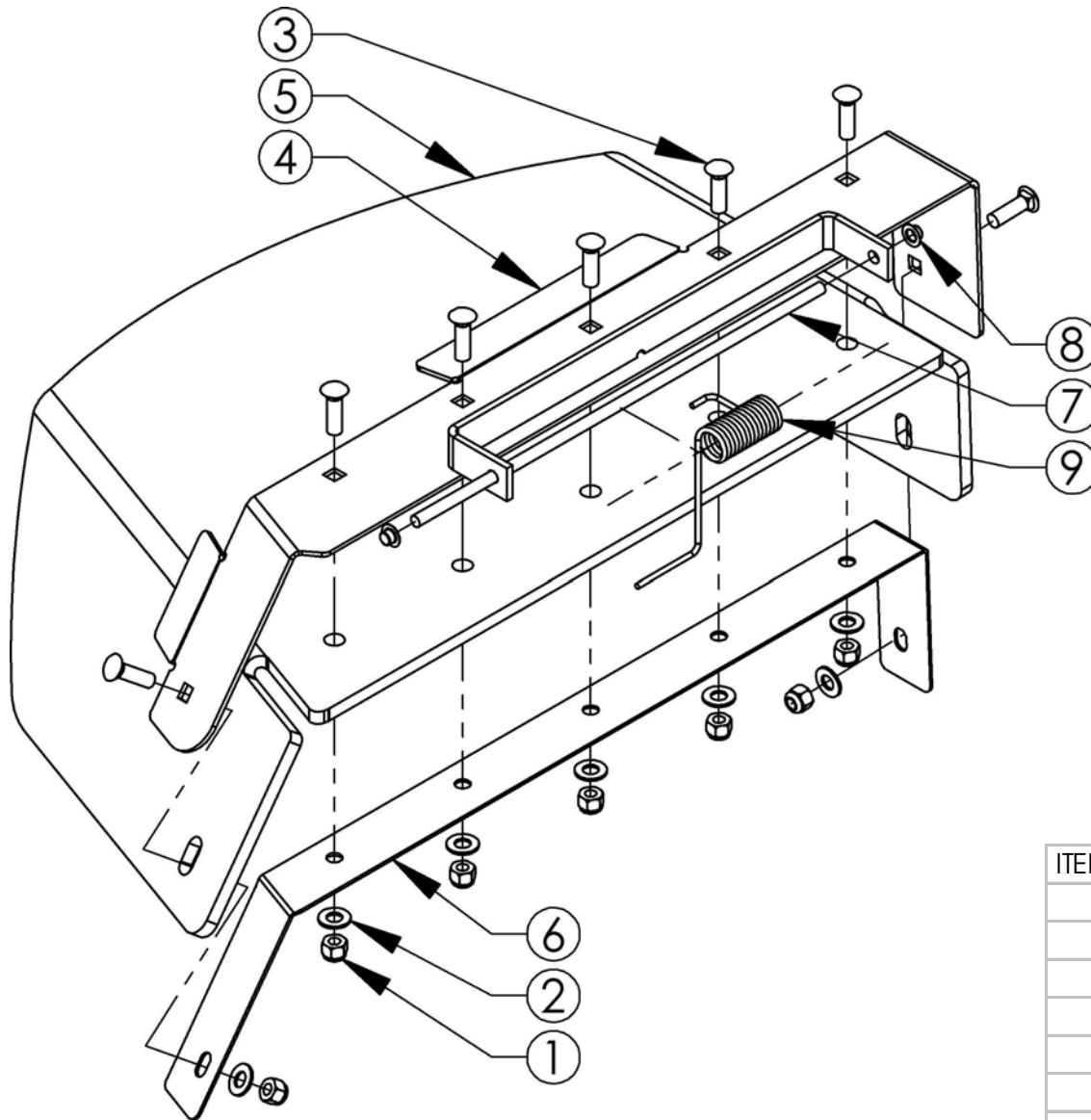


ITEM NO.	PART NO.	DESCRIPTION
1	19720*	Assembly - Top Radius Arm; Txt Blk
1A	NB622	Bolt - Serr Flange, 5/16-18X2 1/4 GR5 ZY
1B	19708	Plate - Radius Arm, 1/8"
1C	19246	Plate - Linkage Control, Right
1D	19710	Plate - Radius Arm, 1/2"
1E	19709	Plate - Radius Arm, 1/4"
1F	19280	Plate - Linkage Control, Left
1G	NB558	Nut - Lock, 5/16-18 ZY 2 Way Grade A
2	19282	Bushing - Front Radius Arm
3	19261*	Weldment - Housing, Front Caster
4	19710*	Plate - Radius Arm, 1/2"
5	19708*	Plate - Radius Arm, 1/8"
6	19711	Spacer - 5/8" ID x 1" OD x 3/8"
7	4845	Bearing - Blade
8	NB614HT	Washer - 1 X 1 1/2 10GA Hardened
9	19332*	Weldment - Caster, HD; Front Mount
10	19290	Tire/Wheel - 11 X 6.00-5, Smooth
11	18953	Bolt - 5/8-11 X 8 1/2, GR8; ZY
12	NB595	Nut - Lock Jam, 5/8-11 2 Way Grade A
13	NB150	Bolt - 3/8-16 X 3 HCC GR5 ZY
14	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
15	NB121	Nut - Jam Lock, 1/2-13 2-Way Gr A
16	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
17	NB647	Bolt - 1/2-13 X 1 1/4 HTC GR5 ZY
18	NB612	Nut - Nyloc 1"-8 ZY

When Ordering Replacement Parts:

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Grass Chute Diagram & Parts List



ITEM NO.	PART NO.	DESCRIPTION
1	NB182	Nut - Nyloc 3/8-16 ZY
2	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
3	10501	Bolt - Carriage 3/8-16 X 1 1/4 GR5 ZY
4	19298*	Weldment - Grass Chute Mount
5	19295	Chute - Rubber, Front Mount
6	19296*	Plate - Grass Chute, Bottom
7	18595	Rod - Deck, Grass Chute; ZP
8	NB117	Nut - Push, 5/16; ZP
9	166X34	Spring - Torsion

When Ordering Replacement Parts:

* = USE PAINT CODE: TK=BLACK, TC=RED

Notes