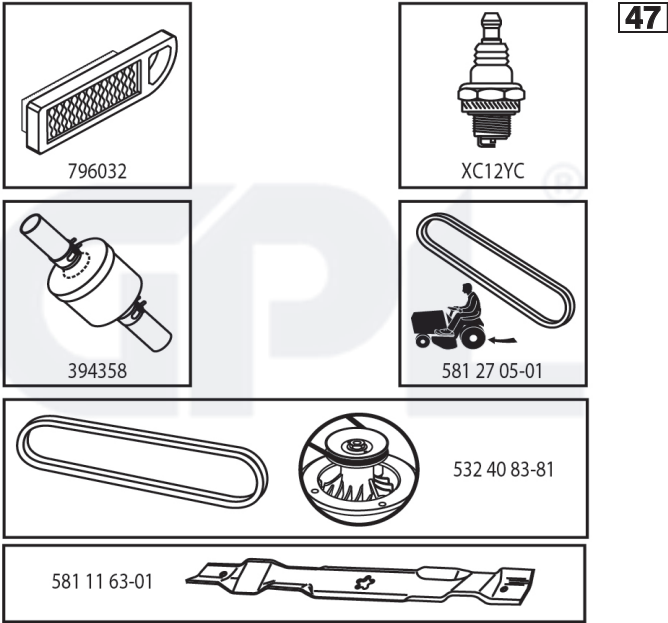


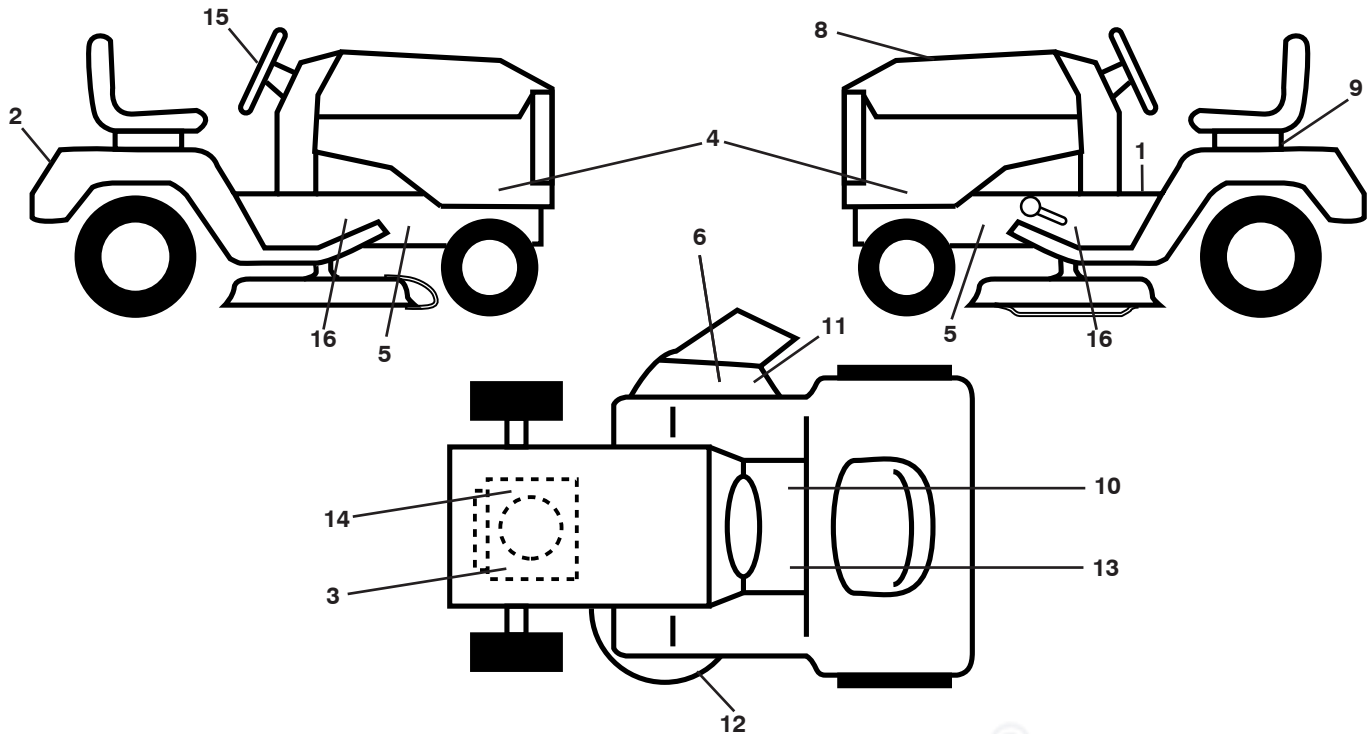
ILLUSTRATED PARTS LIST

MODEL NO. 96041037400
CUSTOMER CATALOG NO. LT 2313 A
PRODUCT NO. 960 41 03-74



587194201

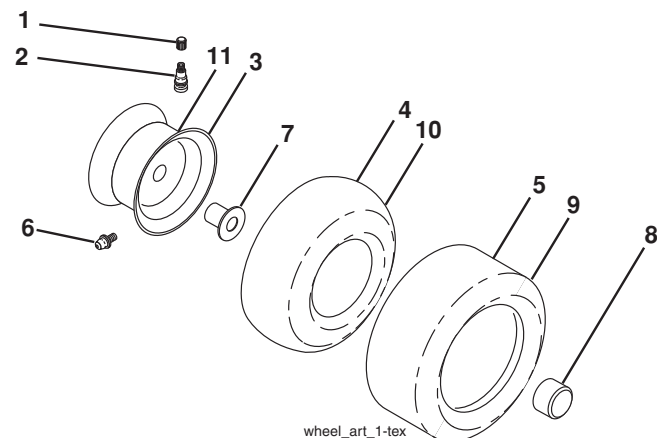
TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
DECALS 27



KEY NO.	PART NO.	DESCRIPTION
1	581 57 81-01	Decal, Operators
2	587 67 54-01	Decal, Fender
3	581 57 97-01	Decal, Warning Eng. Symbols
4	582 29 09-01	Decal, Hood Panel
5	581 57 96-01	Decal, Chassis Hot Muffler
6	581 57 92-01	Decal, Deck/Deflect. Warning
8	587 19 42-01	Decal, Rpl
9	532 14 50-05	Decal, Battery Dnge/Poi
10	581 57 80-01	Decal, Saddle Brake Parking
11	584 90 46-01	Decal, Warning
12	581 58 00-03	Decal, Mower V-Belt Schematic
13	581 72 40-01	Decal, Brake/Clutch Symbol

KEY NO.	PART NO.	DESCRIPTION
14	585 56 13-01	Decal, BS HP
15	587 73 15-01	Decal, Wheel Str.
16	581 57 98-01	Decal, Warning Service/Fire
--	581 72 46-01	Decal, Drawbar
--	581 72 48-01	Decal, Bypass
--	532 40 95-05	Pad, Footrest, LH
--	532 41 12-73	Pad, Footrest, RH
--	588 78 52-20	Manual Oper. Euro
--	588 78 52-10	Manual Oper. Scan
--	588 78 52-50	Manual Oper. EBloc
--	588 78 52-40	Manual Oper. Baltic

WHEELS AND TIRES



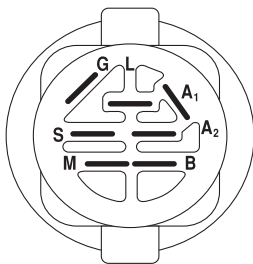
KEY NO.	PART NO.	DESCRIPTION
1	532 05 91-92	Cap Valve Tire
2	532 06 51-39	Stem Valve
3	532 13 83-36	Rim Asm 6" Front
4	532 05 99-04	Tube Front (Service Item Only)
5	532 10 62-22	Tire Front 15 x 6-6
6	532 12 49-57	Fitting Grease (Front Wheel Only)
7	532 12 49-59	Bearing Flange (Front Wheel Only)
8	532 17 50-39	Cap Axle Blk 1 50 x 1 00
9	532 12 46-35	Tire Rear 18 x 8.5-8
10	532 12 49-26	Tube Rear (Service Item Only)
11	532 13 83-37	Rim Asm 8" Rear
--	532 14 43-34	Sealant, Tire (10 oz. Tube)

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
SCHEMATIC **38**

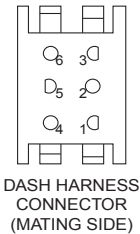
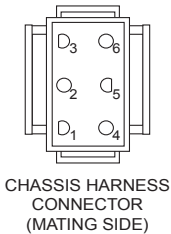
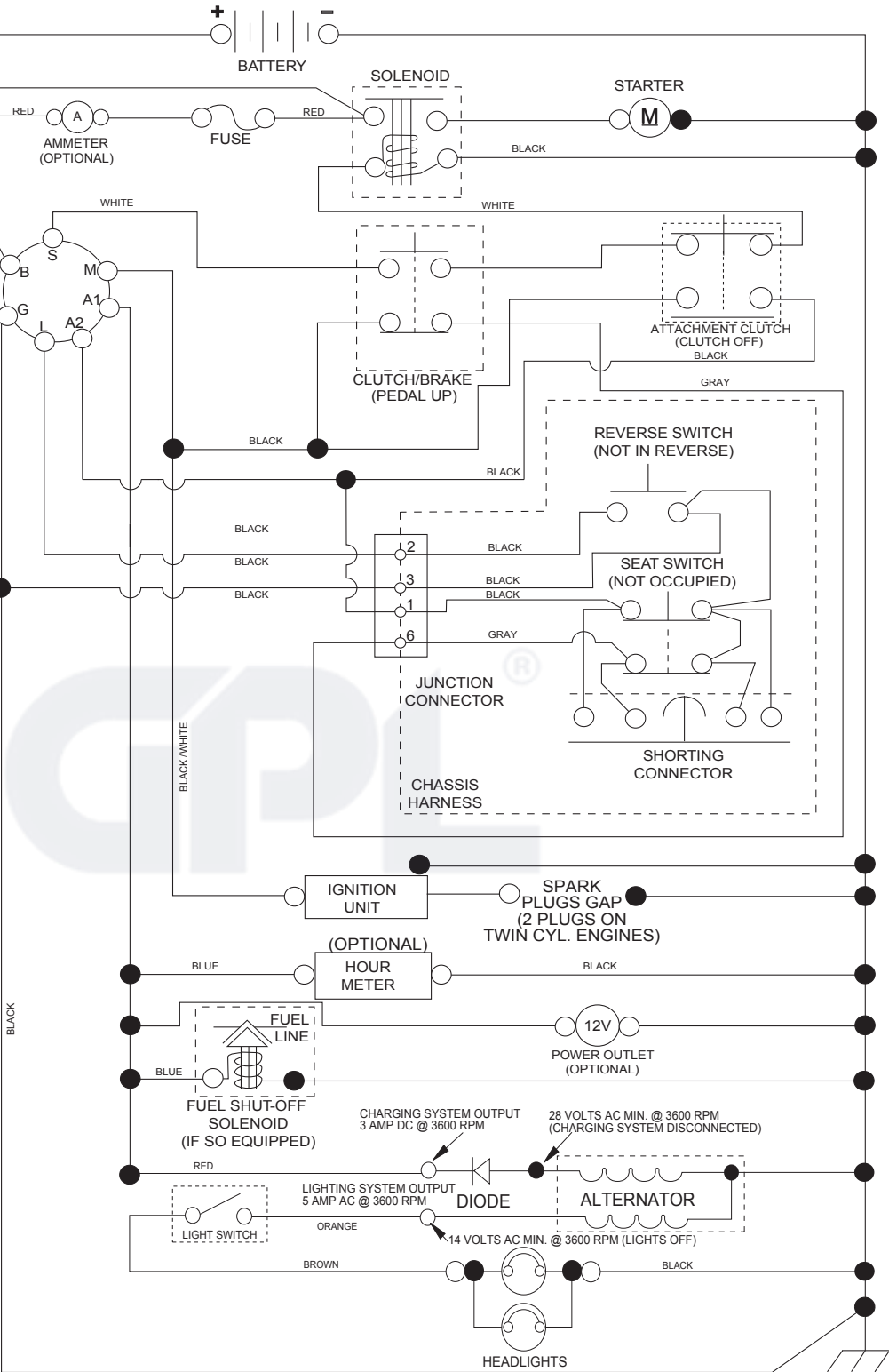
SCH11

NOTE
YOUR TRACTOR IS
EQUIPPED WITH A SPECIAL
ALTERNATOR SYSTEM.
THE LIGHTS ARE NOT
CONNECTED TO THE
BATTERY, BUT HAVE THEIR
OWN ELECTRICAL SOURCE.
BECAUSE OF THIS, THE
BRIGHTNESS OF THE LIGHTS
WILL CHANGE WITH ENGINE
SPEED. AT IDLE THE LIGHTS
WILL DIM. AS THE ENGINE IS
SPEEDED UP, THE LIGHTS
WILL BECOME THEIR
BRIGHTEST.



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	
RUN/OVERRIDE	B+A1	
RUN	B+A1	L+A2
START	B + S + A1	

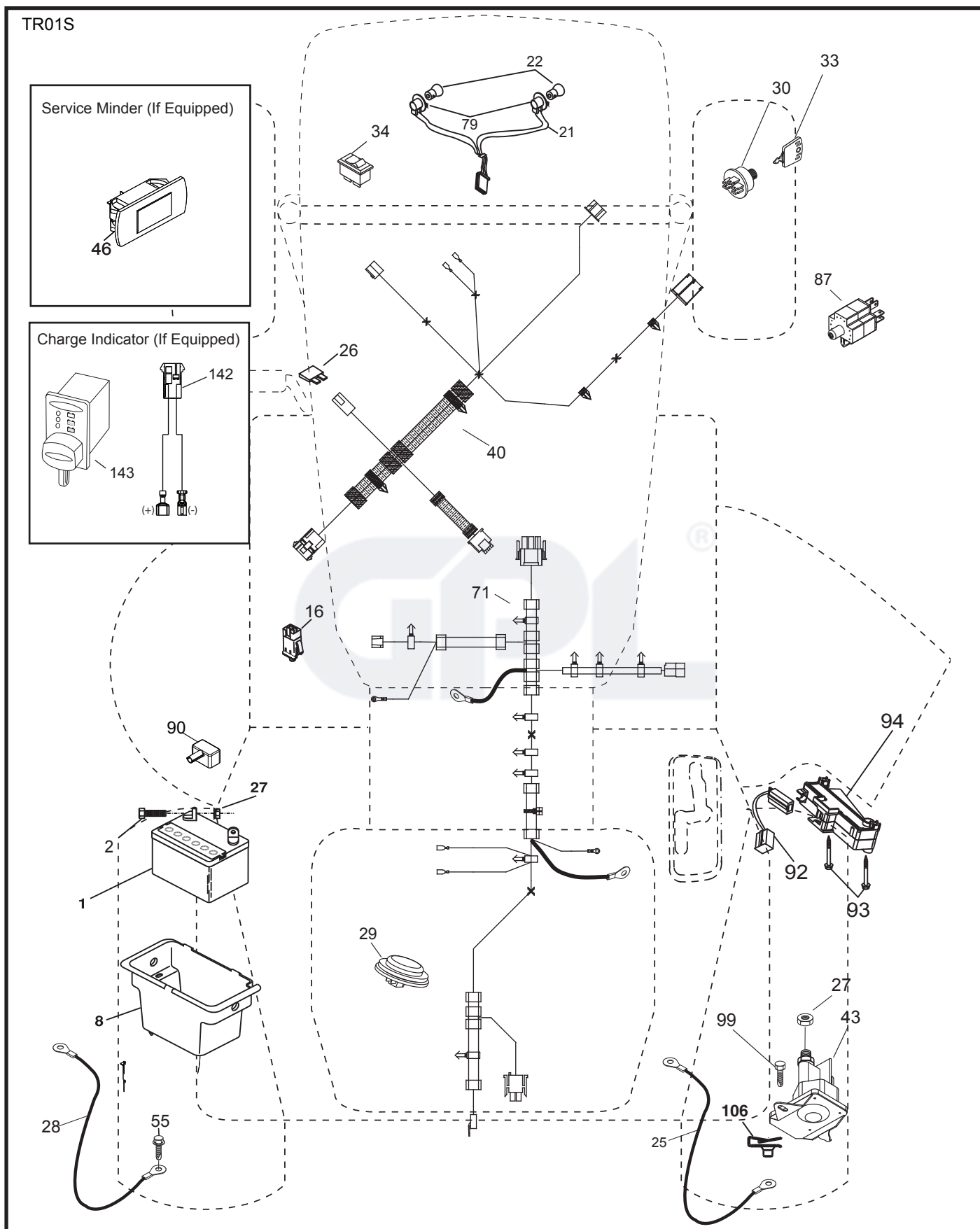


WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED
CLIPS WERE REMOVED FOR
SERVICING OF UNIT, THEY
SHOULD BE RE-INSTALLED TO
PROPERLY SECURE YOUR
WIRING.

NON-REMOVABLE
CONNECTIONS

REMOVABLE
CONNECTIONS

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
ELECTRICAL 32

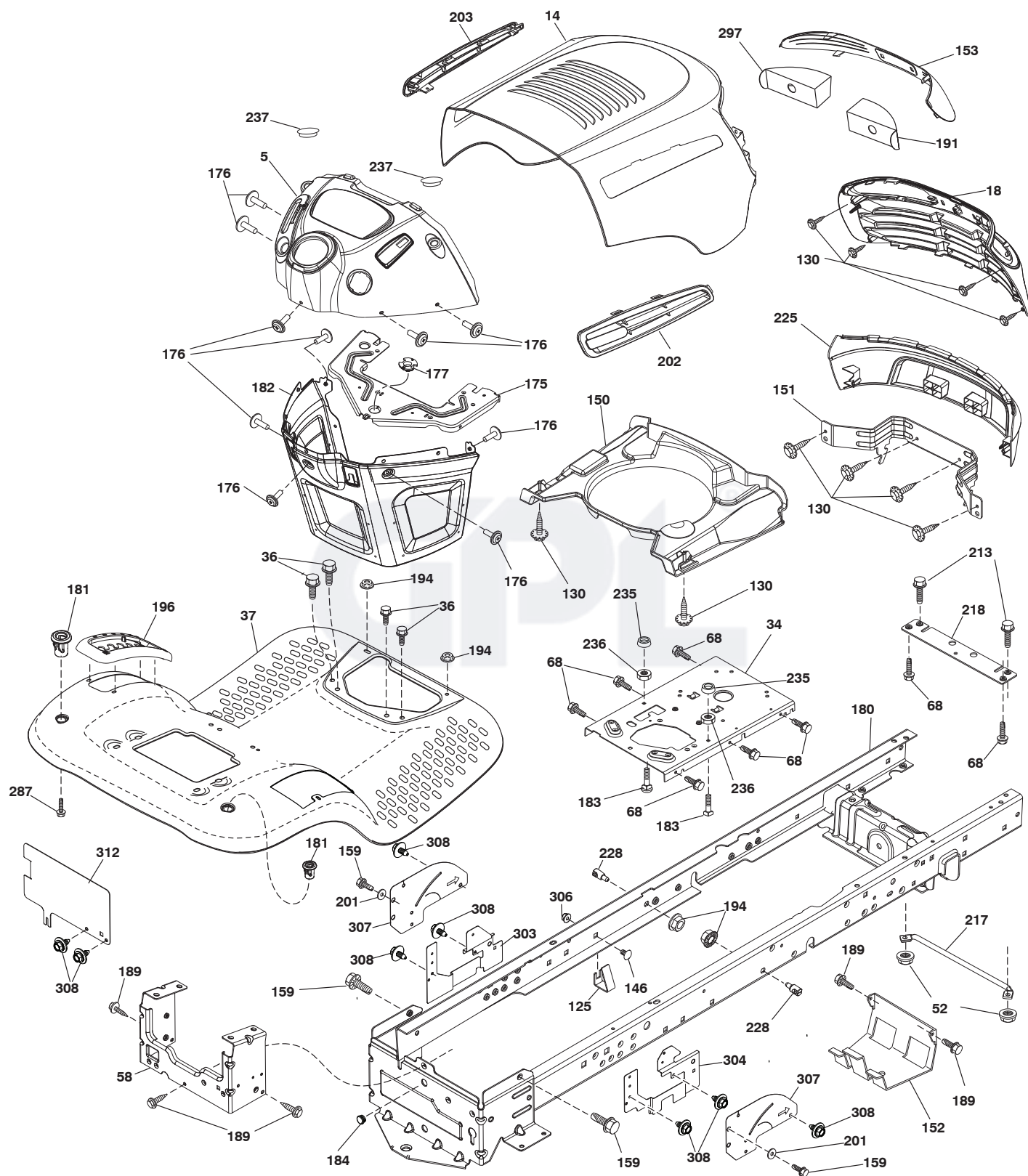


TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
ELECTRICAL 32

KEY NO.	PART NO.	DESCRIPTION
1	532 16 34-65	Battery
2	874 76 04-12	Bolt Hex Head 1/4-20 x 3/4
8	532 19 32-28	Box Battery
16	532 17 61-38	Switch Interlock Push-In
21	532 40 02-52	Harness Socket Light w/4152J
22	532 00 41-52	Bulb Light
25	581 49 80-01	Cable Starter
26	532 17 51-58	Fuse
27	873 51 04-00	Nut Keps Hex 1/4-20 unc
28	532 42 16-86	Cable, Ground
29	532 40 15-45	Switch, Seat
30	532 19 33-50	Switch, Ign
33	532 41 19-35	Key/Chain
34	532 11 07-12	Switch Light/Reset
40	581 02 31-01	Harness Ign. Dash
43	532 19 25-07	Solenoid
55	817 06 05-12	Screw Thdrol 5/16-18 x 3/4
71	501 13 37-01	Harness Chassis
79	532 17 52-42	Socket Asm Bulb Twistlock
87	532 19 78-02	Switch Interlock Clutch Cable
90	532 43 53-95	Cover, Terminal Battery
92	532 19 66-15	Harness Pigtail
93	532 19 25-40	Screw Plastite 10-14-2.0
94	532 19 18-34	Module Reverse
99	817 67 04-12	Screw 1/4-20 x 3/4
106	532 17 48-14	Palnut 1/4 Lugs

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
CHASSIS AND ENCLOSURES 39



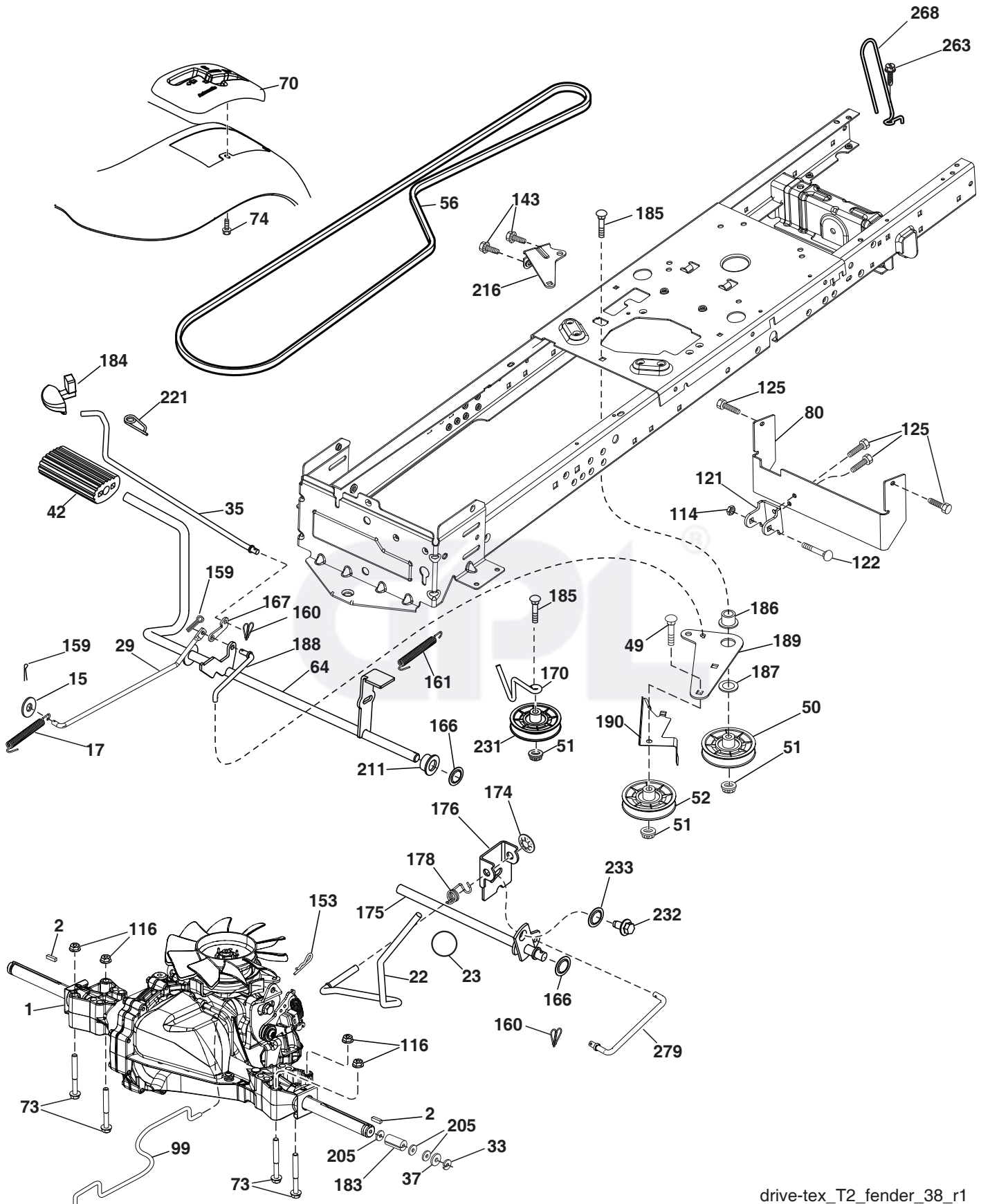
chassis-tex_TEX LT PRED_115_r1

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
CHASSIS AND ENCLOSURES **39**

KEY NO.	PART NO.	DESCRIPTION
5	532 40 95-97	Dash
14	532 44 12-87	Hood
18	532 42 65-11	Grille
34	580 91 08-01	Plate Engine
36	817 06 05-12	Screw 5/16-18 x 3/4
37	532 44 20-44	Fender
52	873 68 05-00	Nut Crown Lock 5/16
58	532 41 22-80	Drawbar, Upper
68	817 49 05-08	Screw THDROL 5/16-18 x 1/2
125	581 68 48-01	Clip Fuel Line
130	532 41 63-58	Screw 10 x .750 BOS Thread
146	581 85 79-01	Bolt
150	532 40 02-67	Air Duct
151	532 18 75-68	Bracket Pivot
152	532 19 95-35	Shield Browning
153	532 44 42-64	Lens
159	817 00 06-12	Screw Hexwsh Thdr 3/8-16 x 3/4 BL
175	532 19 94-72	Crossmember
176	532 40 07-76	Screw 10-24 x 5/8
177	532 19 52-28	Bushing Steering
180	532 41 50-63	Chassis
181	532 40 47-96	Bushing MNT Fender
182	532 40 71-76	Dash Lower
183	874 52 05-20	Bolt 5/16-18 x 1-1/4
184	587 55 41-01	Plug
189	817 00 05-12	Screw 5/16-18 x 3/4
191	532 41 65-02	Insert Reflective RH
194	873 90 05-00	Nut Lock Hex Flange 5/16-18
196	532 41 45-79	Console Deck Lift Asm.
201	819 13 20-16	Washer 13/32 x 1-1/4 x 16 Ga.
202	588 99 35-01	Vent Side Hood RH
203	588 99 35-02	Vent Side Hood LH
213	874 76 05-12	Bolt 5/16-18 x 3/4
217	532 40 91-67	Rod Pivot Hood
218	532 19 63-95	X-Piece Hood Stop
225	589 03 29-01	Bumper Grille
228	532 19 51-61	Stud Fastener
235	532 40 61-29	Spacer Fender
236	873 93 05-00	Nut Lock 5/16-18 unc
237	532 40 37-04	Plug Mount Cargo
287	817 60 04-06	Screw Hex Washead 1/4-20 x 3/8
297	532 40 18-27	Insert Reflective LH
303	587 49 34-02	Shield Chassis French LH
304	587 86 51-02	Shield Chassis French RH
306	873 90 06-00	Nut Lock Flg 3/8-16 unc
307	587 49 46-01	Shield Upper
308	532 17 18-77	Bolt 5/16-18 unc x 3/4
312	587 49 30-02	Shield Drawbar

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
DRIVE 40



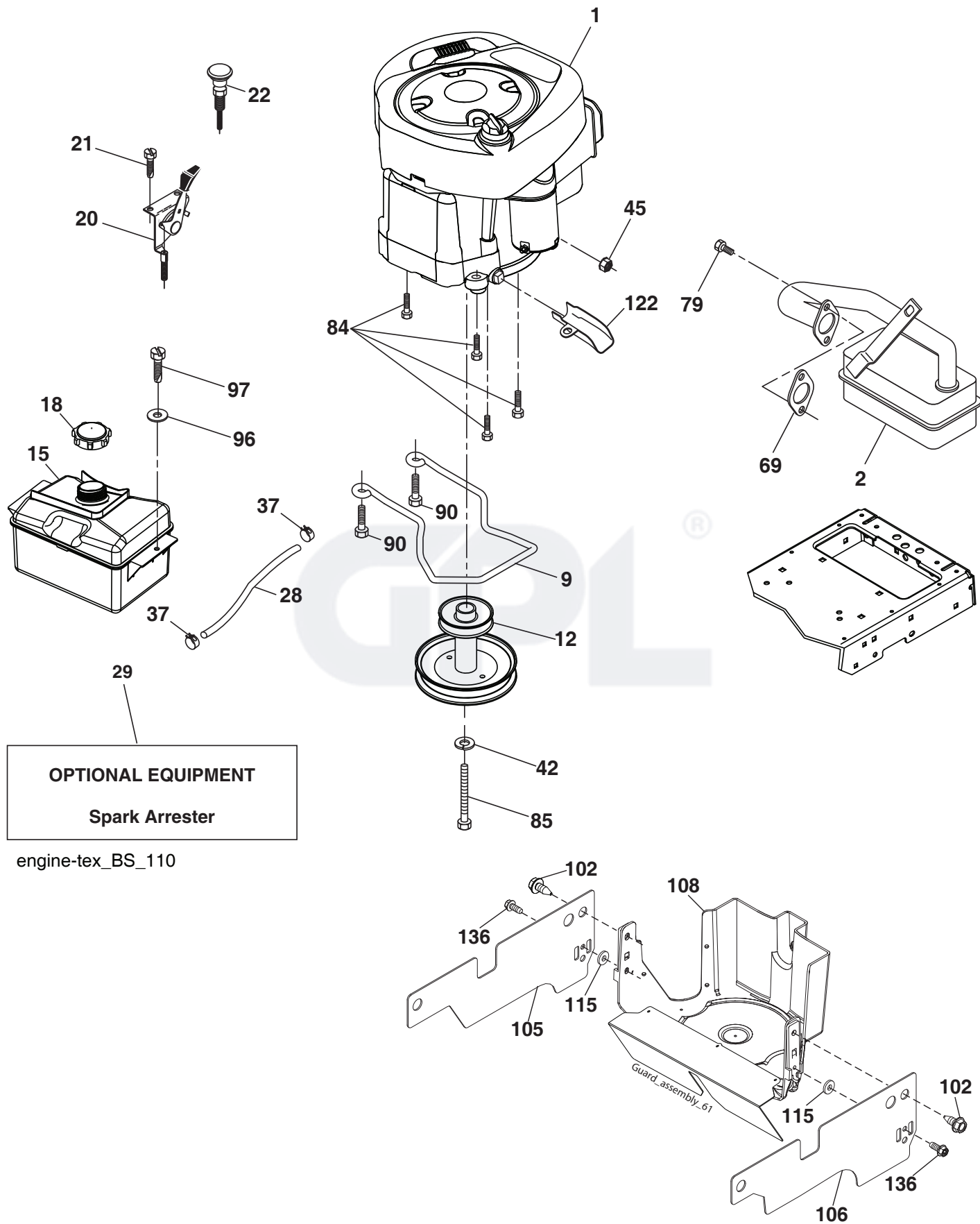
drive-tex_T2_fender_38_r1

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
DRIVE 40

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	— — — — —	Transaxle, Hydro Gear T2-CDBE-5X1A-18C1 (581115602) (Order parts from transaxle manufacturer.)	161	532 10 57-09	Spring, Return, Clutch
2	532 12 35-83	Key Square	166	532 42 91-64	Nut Push .625
15	819 13 13-16	Washer 13/32 x 13/16 x 16 Ga.	167	532 40 52-57	Latch Brake Parking
17	532 19 72-96	Spring, Brake	170	532 41 34-30	Keeper Belt Centerspan
22	532 19 76-60	Rod Shift	174	532 19 72-89	Nut Push
23	532 12 12-74	Knob	175	532 40 85-39	Shaft Asm Shift
29	581 50 64-01	Rod, Brake	176	532 19 62-14	Arm Clevis Rod Shift
33	812 00 00-01	Ring E	178	532 19 74-56	Spring Shift
35	532 40 10-31	Rod, Brake, Park	183	532 15 69-72	Spacer Axle
37	532 12 17-49	Washer 25/32 x 1-1/4 x 16 Ga.	184	532 41 14-84	Handle Parking Brake
42	532 12 48-72	Cover, Foot Pedal	185	872 11 06-22	Bolt
49	872 11 06-14	Bolt	186	532 19 43-21	Spacer Retainer
50	532 19 43-27	Pulley Idler Flat	187	819 13 32-10	Washer
51	873 90 06-00	Lock Nut 3/8-16	188	582 21 70-01	Link Clutch Ground Drive, Long
52	532 19 43-26	Idler V-Groove Offset	189	532 19 43-17	Bellcrank Ground Drive
56	581 27 05-01	V-Belt, Drive	190	532 19 43-18	Keeper Bellcrank Ground Drive
64	532 19 62-00	Shaft Asm. Pedal Brake Control	205	532 12 17-48	Washer 25/32 x 1-5/8 x 16 Ga.
70	532 41 13-29	Console	211	532 19 62-12	Bushing Shaft
73	874 49 05-44	Bolt Hex 5/16-18 Gr. 5	216	532 19 61-31	Bracket Pulley Idler
74	532 14 24-32	Screw 1/4 x 1/2	221	532 40 31-87	Retainer Spring Clip Handle
80	581 55 07-01	Strap Torque	231	532 40 72-87	Idler V-Groove
99	532 40 84-18	Rod Spring Bypass	232	874 78 07-16	Bolt 7/16-14 x 1 Gr 5
114	873 80 05-00	Nut Lock Hex W/Ins. 5/16-18 unc	233	532 40 52-96	Washer Serrated
116	873 90 05-00	Nut Lock Hex Flange 5/16-18	263	817 00 06-12	Screw Hexwsh Thdr 3/8-16 x 3/4
121	532 17 56-11	Bracket Strap Torque	268	532 18 24-02	Guard Muffler RH
122	872 01 05-20	Bolt 5/16-18 x 2.50	279	532 42 41-55	Link Shift
125	817 00 05-12	Screw 5/16-18 x 3/4			
143	817 49 05-08	Screw THDROL 5/16-18			
153	532 12 47-88	Retainer Spring 1"			
159	876 02 04-12	Pin Cotter 1/8 x 3/4			
160	532 16 94-84	Retainer Clip			

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
ENGINE 24



engine-tex_BS_110

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74 ENGINE **24**

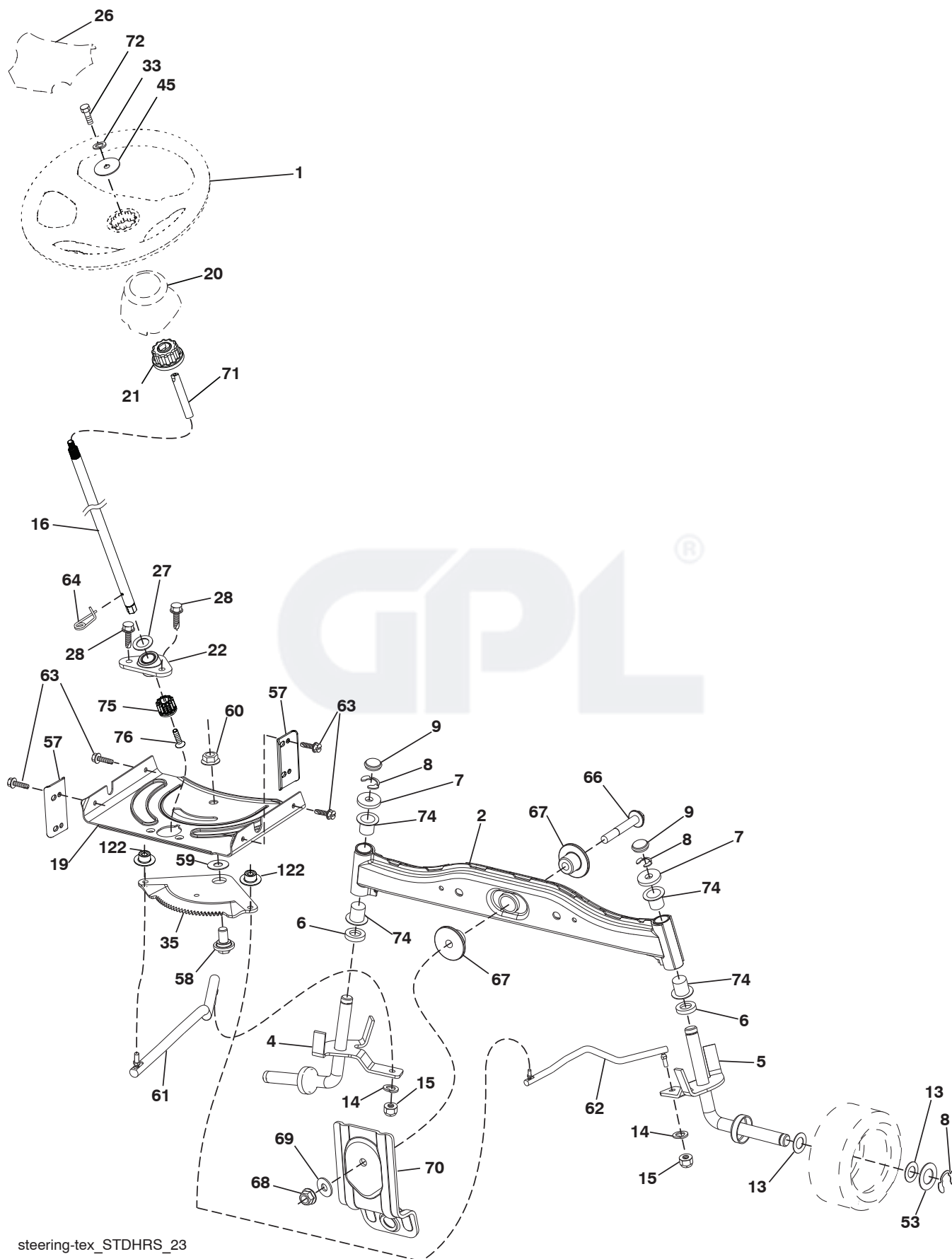
KEY NO.	PART NO.	DESCRIPTION
1	- - - - -	Engine B & S, Model No. 21R707-0018-B1 (585688201) (Order parts from engine manufacturer.)
2	532 17 97-58	Muffler
9	501 83 26-01	Keeper Belt Engine
12	586 47 85-01	Pulley Engine
15	581 28 99-01	Tank Fuel 1.5
18	532 43 02-20	Cap Asm
20	532 18 38-97	Control Throttle
21	532 41 63-58	Screw #10 x .750 BOS Thread
22	532 19 49-81	Control Choke
28	532 13 70-40	Fuel Line
29	532 13 71-80	Spark Arrester Kit
37	532 12 34-87	Clamp Hose
42	810 04 07-00	Washer
45	873 51 04-00	Nut Keps Hex 1/4-20 unc
69	532 16 52-91	Gasket
79	532 19 23-34	Screw Socket 5/16-18 x .75
84	817 06 06-20	Screw 3/8-16 x 1-1/4
85	532 17 39-37	Bolt Hex 7/16-20 x 4 Gr. 5
90	817 00 06-16	Screw 3/8-16 x 1
96	819 09 14-16	Washer 9/32 x 7/8 x 16 Ga.
97	817 67 04-12	Screw Hexwsh Thdrol 1/4-20 x 3/4
102	817 00 05-12	Screw 5/16-18 x 3/4
105	501 26 72-02	Shield Side LH
106	501 26 82-02	Shield Side RH
108	587 17 95-01	Cover Eng. Pulley w/SHLD 38", 42"
115	532 43 17-61	Palnut #10
122	532 42 19-22	Extension Drain Oil
136	532 42 17-56	Screw, #10 0.500, BOS

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

Engine Power Rating Information

The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-05). Torque values are derived at 3060 RPM; horsepower values are derived at 3600 RPM. Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net power). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
STEERING ASSEMBLY 41



TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
STEERING ASSEMBLY [41]

KEY NO.	PART NO.	DESCRIPTION
1	532 42 41-46	Wheel, Steering
2	532 41 81-68	Axle Asm., Front
4	532 40 30-87	Spindle Asm., LH
5	532 40 30-88	Spindle Asm., RH
6	532 12 49-31	Bearing, Race Thrust Hardened
7	532 12 17-48	Washer 25/32 x 1-5/8 x 16 Ga.
8	812 00 00-29	Ring, Klip #T5304-75
9	532 12 12-32	Cap, Spindle
13	532 12 17-49	Washer, 25/32 x 1-1/4 x 16 Ga.
14	810 04 06-00	Washer, Lock Hvy Hlcl Spr 3/8
15	873 54 06-00	Nut, Crown Lock 3/8-24 unf
16	585 86 92-02	Steering Shaft
19	532 19 47-29	Plate Steering
20	532 40 97-63	Boot, Steering
21	532 18 67-37	Adapter, Wheel Steering
22	585 02 98-02	Bearing
26	532 42 41-47	Insert, Wheel Steering Husq SR
27	819 21 16-16	Washer 21 x 32 x 1 x 16 Ga.
28	817 00 06-12	Screw 3/8-16 x 3/4
33	810 04 05-00	Washer Lock 5/16
35	532 19 47-32	Gear, Sector Plate
45	819 11 38-12	Washer 11/32 x 3/8 x 12 Ga.
53	532 18 89-67	Washer Hardened .793 x 1.637 x .060
57	532 40 74-65	Bracket Upstop
58	532 19 47-47	Bolt Shoulder Sector Pivot CFM
59	532 19 47-48	Washer Thrust Sector Steering
60	873 97 10-00	Nut Flange Lock 5/8-11
61	532 19 47-40	Draglink, LH
62	532 19 47-41	Draglink, RH
63	817 00 05-12	Screw 5/16-18 x 3/4
64	532 19 98-49	Retainer Clip Spring Steering
66	871 02 07-48	Bolt Hex Fghd 7/16-14 x 3 Serr
67	532 19 47-37	Bushing PM Front Axle
68	873 90 07-00	Nut Lock Flange 7/16-14 Gr. 5
69	532 19 91-62	Washer 1.5 x .505 x .118
70	585 33 88-01	Bracket Deck Susp. Front
71	532 19 07-52	Shaft Extension Steering
72	532 42 89-82	Bolt Fin Hex 5/16-18 x 3/4 w/Patch
74	532 12 49-37	Bearing
75	580 68 37-01	Pinion
76	580 68 36-01	Screw Head Sock
122	532 44 49-62	Cap Gear

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

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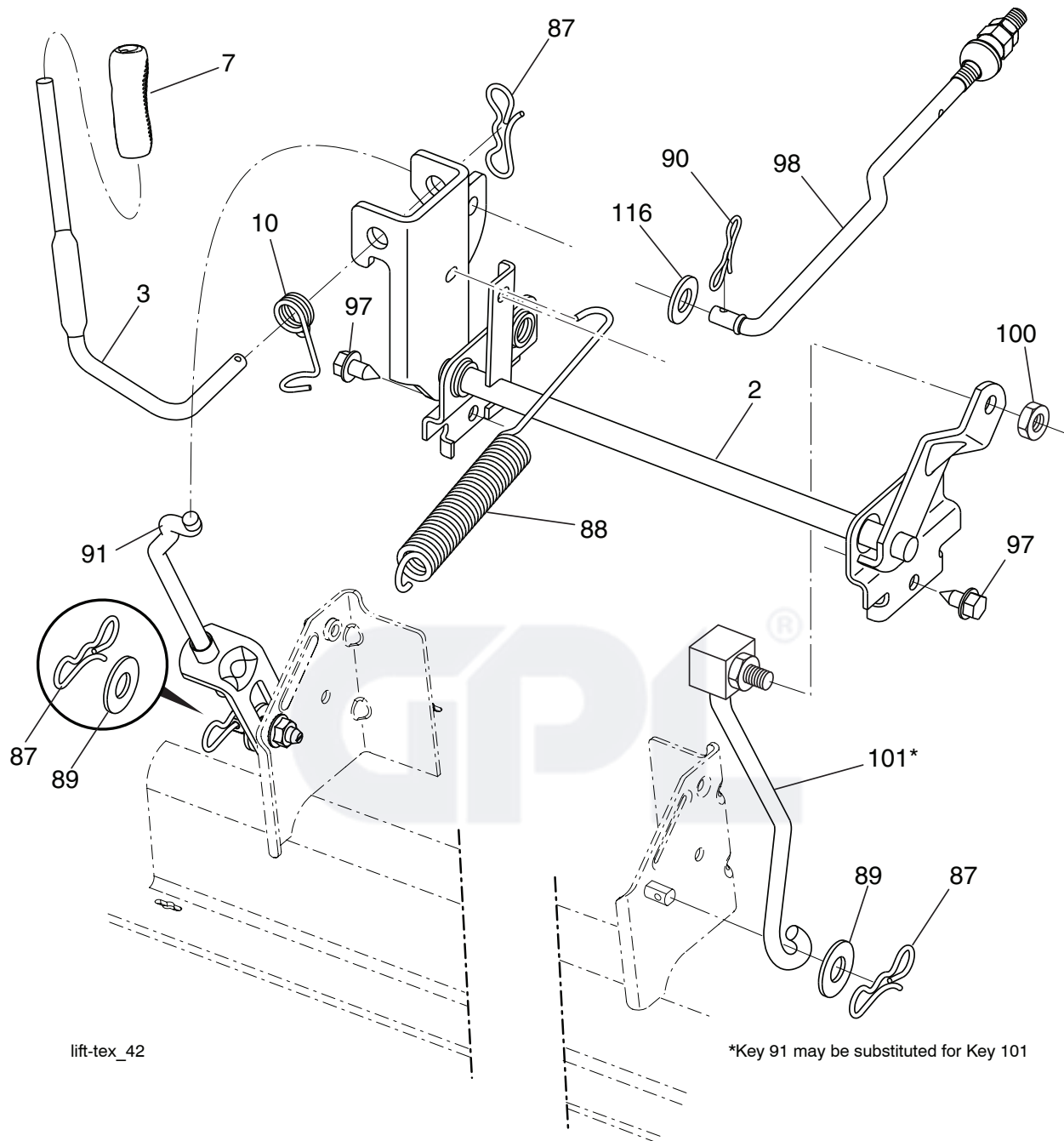
TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74

MOWER DECK **44**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	587 77 18-07	Mower Housing	69	872 14 05-05	Bolt
6	532 19 51-86	Arm Suspension	70	532 40 12-46	Clutch Asm. Manual
7	532 41 63-58	Screw #10 x 0.750 BOS Thread	122	532 19 72-58	Keeper Belt Engine LH
11	581 11 63-01	Blade 38" 2NI Premium	123	532 19 72-59	Keeper Belt Engine RH
12	584 30 93-01	Screw 7/16-20 x 1 Hx	144	532 19 34-14	Keeper Belt
13	587 25 65-01	Shaft Assembly, Mandrel	145	532 19 31-97	Pulley Idler
14	532 18 72-81	Housing, Mandrel	147	532 40 18-72	Spring Return
15	585 32 39-01	Bearing, Mandrel	152	532 43 51-11	Manual Clutch Cable
19	532 19 65-39	Bolt, Shoulder	188	532 19 51-61	Stud Fastener
21	873 68 05-00	Nut, Crownlock 5/16-18 unc	189	873 90 05-00	Nut Lock Hex Flange
23	532 19 25-57	Bracket, Deflector	195	817 00 06-12	Screw 3/8-16 x 3/4
24	532 10 53-04	Cap, Sleeve	199	532 40 00-95	Baffle Vortex
25	532 19 70-26	Spring, Torsion, Deflector	205	817 49 04-16	Screw 1/4 - 20 x 1.00 77
26	532 11 04-52	Nut, Push	206	819 09 14-16	Washer 9/32 x 7/8 x 16 Ga.
27	532 40 16-18	Shield, Deflector	208	817 67 06-08	Screw 3/8 - 16 x 1/2
29	532 13 14-91	Rod, Hinge	209	819 13 32-10	Washer 13/32 x 2 x 10
32	532 19 97-89	Pulley, Mandrel	241	532 15 29-27	Screw TT #10-32.5 3/8
33	532 40 02-34	Nut, Toplock, Flanged	242	532 41 55-98	Port Washout
34	872 11 06-12	Bolt Carr. Sh. 3/8-16 x 1-1/2 Gr. 5	243	532 40 65-10	Cover Assembly
35	532 13 38-35	Fastener, Christmas Tree	244	532 42 30-62	Pal Nut
37	819 13 13-16	Washer	247	532 43 02-58	Shield Deck RH Assy
38	532 19 95-41	Keeper Belt LH Mandrel	248	532 43 02-59	Shield Deck LH Assy
40	873 90 06-00	Nut, Lock Flg. 3/8-16 unc	249	532 40 65-14	Cover Cable Clutch
41	584 95 39-01	Bolt Hex Wshr	250	532 42 73-50	Rivet
42	532 19 84-10	Spring Torsion Brake	251	532 43 60-87	Kit Bungee (Includes Phillips head screw, weld nut, screw, bungee latch, and bungee strap)
43	532 19 72-56	Spring Torsion Retainer	- -	587 25 33-01	Mandrel Assembly (Includes housing (key #14), shaft assembly (key #13), and bearing (key #15) only - pulley/nut/washer and blade bolt/washers not included)
46	532 13 77-29	Screw 1/4 - 20 x 5/8	- -	532 43 16-91	Replacement Mower, Complete
55	532 19 72-49	Arm, Idler			
56	532 19 90-92	Spacer, Retainer			
57	817 00 06-16	Screw 3/8-16 x 1			
59	532 14 10-43	Guard, Tuv. Idler			
60	532 19 94-71	Arm Brake Mower			
63	532 19 94-70	Arm Brake Mower			
64	532 19 97-90	Link Brake			
67	532 40 30-12	Handle Clutch Cable			
68	532 40 83-81	V-Belt			

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
MOWER LIFT 45

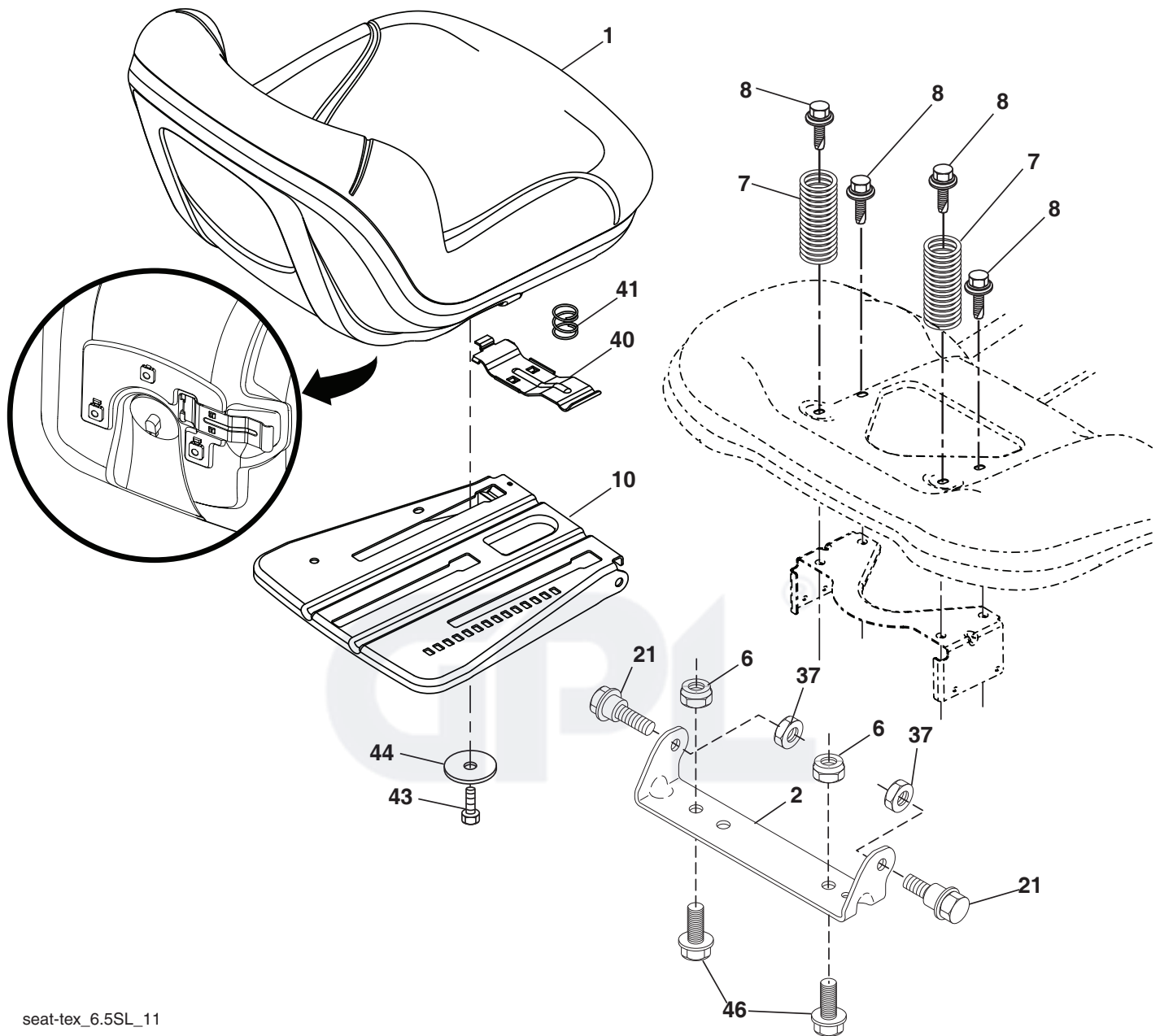


KEY NO.	PART NO.	DESCRIPTION
2	532 42 20-27	Shaft Asm., Lift
3	532 19 52-31	Lever Asm., Lift RH
7	580 96 23-01	Grip, Lever
10	532 19 63-14	Spring Torsion
87	532 19 42-09	Pin Cotter 7/16 Bow Tie Lock
88	532 41-07-10	Spring Lift Assist
89	819 19 19-12	Washer Clear Zinc
90	532 19 42-08	Pin Cotter 5/16 Bow Tie Lock

KEY NO.	PART NO.	DESCRIPTION
91	532 19 51-81	Link Lift Susp Mower Rear
97	817 00 06-12	Screw 3/8-16 x .75
98	532 19 52-70	Link Lift Susp. Front Mower
100	873 93 06-00	Nut Centerlock 3/8-16
101	532 40-70-03	Link Asm. Lift FXD
116	819 15 15-16	Washer 15/32 x 15/16 x 16 Ga.

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

TRACTOR - - MODEL NO. LT 2313 A (96041037400), PRODUCT NO. 960 41 03-74
SEAT ASSEMBLY 42



seat-tex_6.5SL_11

KEY NO.	PART NO.	DESCRIPTION
1	532 41 14-05	Seat
2	532 18 01-66	Bracket Pivot Fender
6	873 80 06-00	Nut, Lock w/Ins. 3/8-16 unc
7	587 61 33-01	Spring, Seat Cprsn
8	532 17 18-77	Bolt 5/16-18 unc x 3/4 w/Sems
10	532 19 69-77	Pan, Seat
21	587 90 78-01	Bolt, Shoulder 5/16-18 x 5/8
37	873 80 05-00	Nut, Lock 5/16-18 unc

KEY NO.	PART NO.	DESCRIPTION
40	532 19 76-61	Handle Slide
41	532 19 82-00	Spring Latch
43	874 76 06-12	Bolt Fin Hex 3/8-16 unc x 3/4
44	819 13 38-12	Washer 13/32 x 2-3/8 x 12 Ga.
46	588 09 04-01	Bolt 3/8-16 x1; 1.25 OD

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

