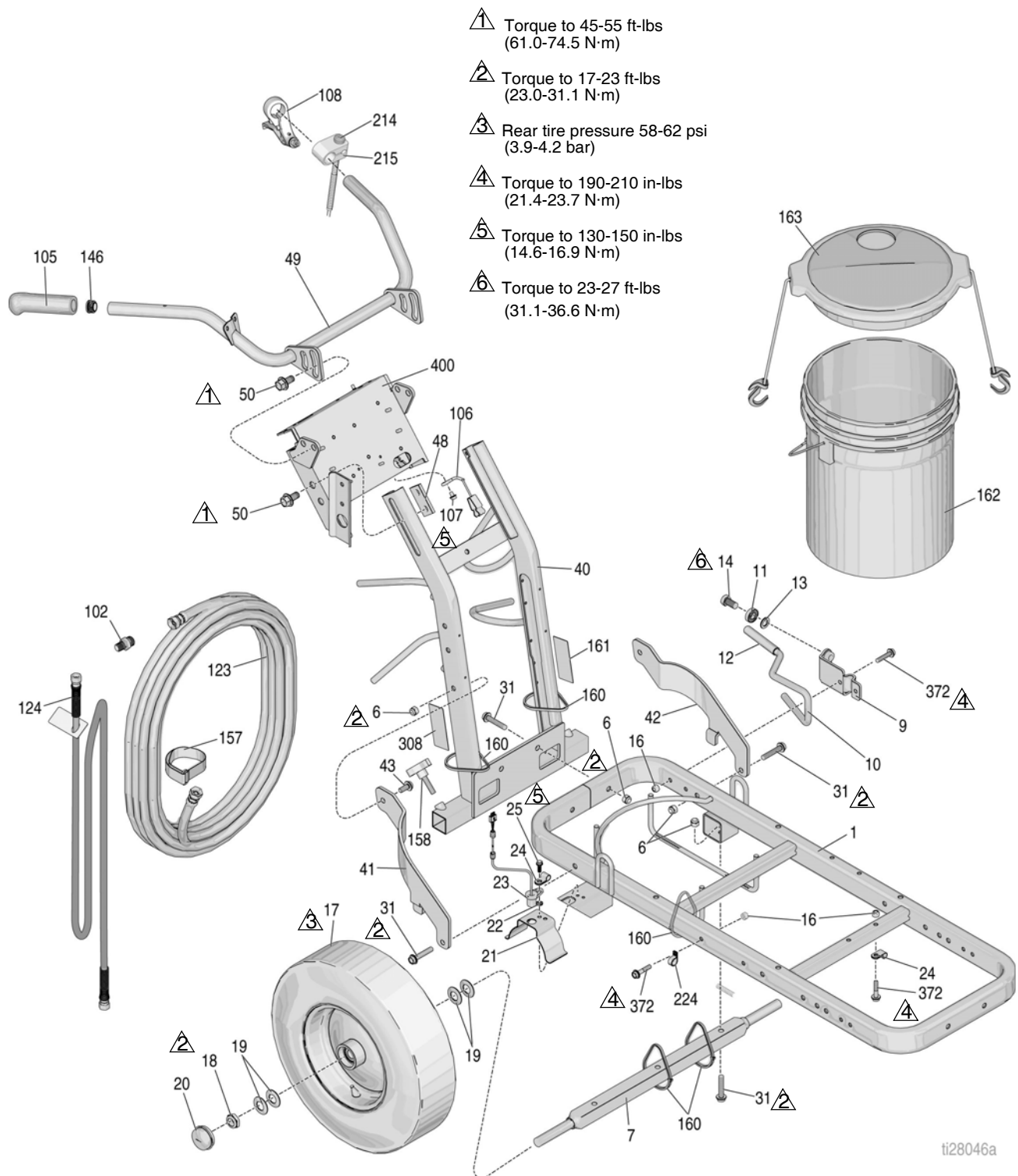


Parts Drawing - LineLazer V 3900, 5900



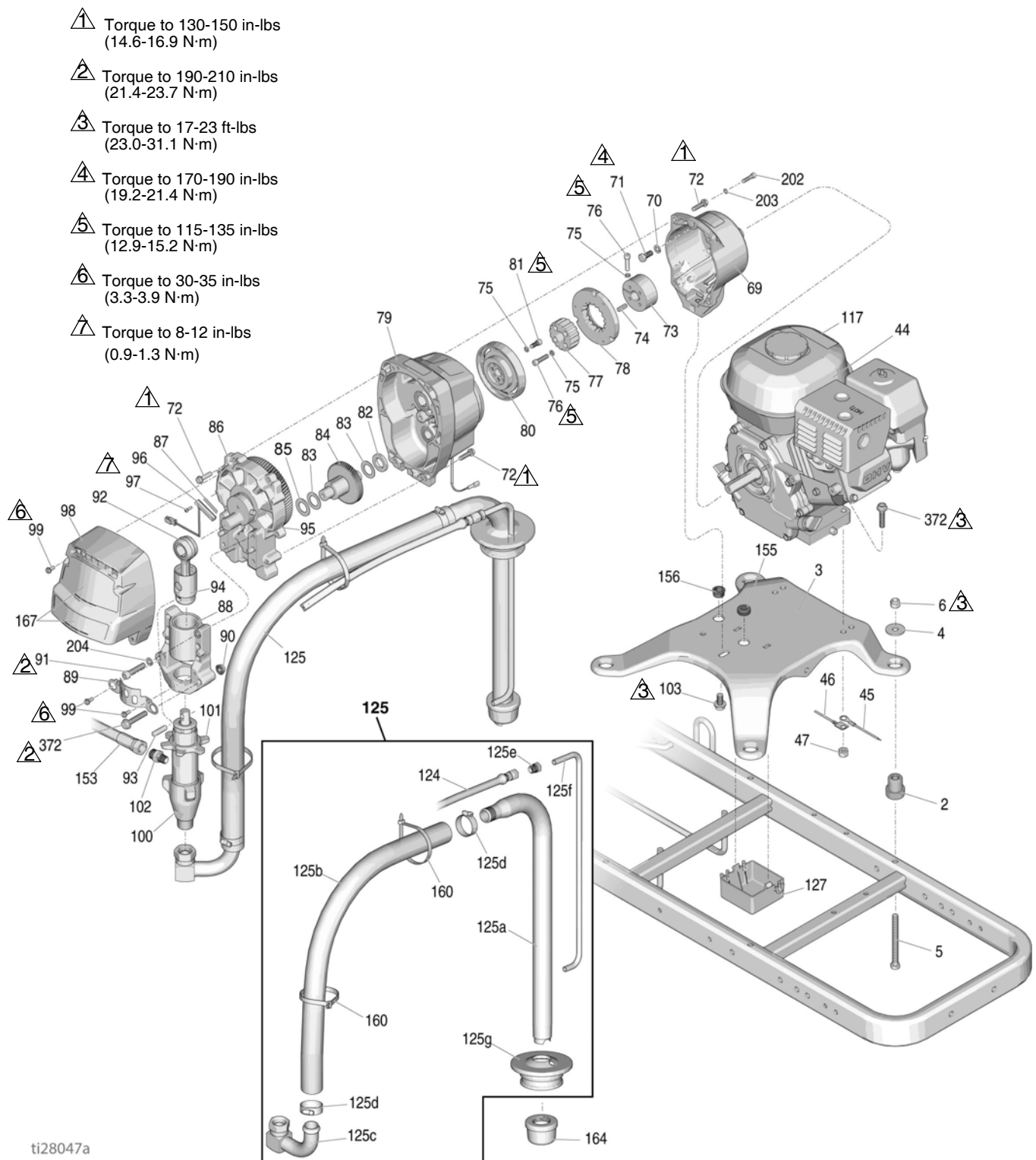
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Parts List

Ref	Part	Description	Qty	Ref	Part	Description	Qty
1	287623	FRAME, linestriper (painted)	1	48	17J125	BRACKET, slide	2
6	101566	NUT, lock	8	50	17J136	SCREW, hex, flange head	4
7	193405	AXLE	1	102	196176	ADAPTER, nipple	1
9	198891	BRACKET	1	105	114659	GRIP	2
10	198930	ROD, brake (includes 12)	1	106	237686	GROUND WIRE	1
11	198931	BEARING	1	107	107257	SCREW, thread forming, hex hd	1
12	114808	CAP, vinyl	1	108	194310	LEVEL, actuator	1
13	195134	SPACER, ball, guide	1	123	245225	HOSE, 3/8" x 50'	1
14	113961	SCREW, cap, hex hd	1	124	245798	HOSE, coupled 1/4" x 7'	1
16	111040	NUT, lock, insert, nylock, 5/16	5	146	120151	RETAINER, caplug	2
17	255162	WHEEL, pneumatic w sensor ring	1	157	114271	STRAP	1
	111020	WHEEL, pneumatic w/o sensor ring	1	158	108471	KNOB, pronged	1
18	112405	NUT, lock	2	160	404989	STRAP, tie	5
19	112825	WASHER	4	161	17K394	LABEL, gmax warning fire & skin	1
20	114648	CAP, dust	2	162	115077	PAIL, plastic	1
21	15J088	SHIELD, distance sensor	1	163	24U241	KIT, pail cover	1
22	15K452	SPACER, round,.500 o.d.	1	214*	17J236	SWITCH, push button	1
23	15K357	SENSOR, distance	1	215*	15K162	BLOCK, switch	1
24	108868	CLAMP, wire	2	224	17H721	CLAMP, wire	2
25	260212	SCREW, hex washer hd, thd form	1	308	17K392	LABEL	1
31	114982	SCREW, cap, flng hd	6	372	112960	SCREW	5
40	24Y665	FRAME, handle upright, painted	1	400	24Y641	BAR, handle	1
41	15F576	BRACE, right (painted)	1	401	24Y642	CONTROL PLATE	1
42	15F577	BRACE, left (painted)	1				
43	128977	SCREW, cap button hd	2				

* HP Auto only

Parts Drawing - LineLazer V 3900, 5900



Parts List

Ref	Part	Description	Qty	Ref	Part	Description	Qty
2	119695	DAMPENER, engine mount	4	92	287719	ROD, connecting, 3900 (includes 93, 94)	1
3	15F583	PLATE, engine mount	1		287720	ROD, connecting, 5900 (includes 93, 94)	1
4	108851	WASHER, plain	4	93	15F855	PIN, pump, 3900	1
5	113743	SCREW, cap, hex hd	4		15F856	PIN, pump, 5900	1
6	101566	NUT, lock	4	94	119676	SPRING, retaining, 3900	1
44	108879	ENGINE, gasoline, 4.0 hp, 3900	1		119778	SPRING, retaining, 5900	1
	114530	ENGINE, gasoline, 5.5 hp, 5900	1	95	116618	MAGNET	1
45	119579	CONDUCTOR, ground, 3900	1	96	119562	SWITCH, reed w/ connector	1
46	240997	CONDUCTOR, ground	1	97	114528	SCREW, mach, phillips, pnhd	2
47	110838	NUT, lock	2	98	16Y747	COVER, 3900 (includes 99)	1
69	15E535	HOUSING, clutch, machine, 3900	1		16Y748	COVER, 5900 (includes 99)	1
	15E277	HOUSING, clutch, machine, 5900	1	99	118444	SCREW, mach, slot hex wash hd	6
70	100214	WASHER	4	100	277069	PUMP, 3900	1
71	108842	SCREW, cap, hex hd	4		277070	PUMP, 5900	1
72	119426	SCREW, mach, hex washer hd, 3900	10	101	192723	NUT, retaining, 3900	1
	15C753	SCREW, mach, hex washer hd, 5900	6		193031	NUT, retaining, 5900	1
73	193680	COLLAR, shaft	1	102	196176	ADAPTER, nipple, 3900	1
74	183401	KEY, parallel	1		196178	ADAPTER, nipple, 5900	1
75	105510	WASHER, lock, spring (hi-collar)	10	103	112395	SCREW, cap, flng hd	1
76	108803	SCREW, hex, socket head	6	117	194126	LABEL, warning	1
77†		HUB, armature	1	124	245798	HOSE, coupled, 1/4"x7'	1
78†		ARMATURE, clutch, 4", 3900	1	125	24V567	HOSE, suction/drain	1
		ARMATURE, clutch, 5", 5900	1	125a	15F149	TUBE, suction	1
79	287463	KIT, pinion, housing, 3900	1	125b	185381	HOSE, nylon	1
	287465	KIT, pinion, housing, 5900	1	125c	110194	FITTING, union, swivel, 180°	1
80†		ROTOR, clutch, 4", 3900	1	125d	101818	CLAMP, hose	2
		ROTOR, clutch, 5", 5900	1	125e	196180	BUSHING	1
81	101682	SCREW, cap, sch	4	125f	16X071	TUBE, drain line	1
82	15F250	WASHER, thrust, 3900	1	125g	278722	GASKET	1
83	114699	WASHER, thrust, 3900	2	127	15F369	BOX	1
	114672	WASHER, 5900	1	153	245797	HOSE, coupled, 3/8 in. x 3	1
84	287653	GEAR, combination, 3900	1	155	114629	GROMMET, transducer	1
	287460	GEAR, combination, 5900	1	156	119569	BUSHING, strain relief	1
85	114672	WASHER, thrust	1	160	404989	STRAP, tie	2
86	287467	HOUSING, drive, 3900	1	164	181072	KIT, strainer	1
	287469	HOUSING, drive, 5900	1	167	17H686	LABEL, 3900	1
87	15F947	SHIELD, magnetic	1		17H687	LABEL, 5900	1
88	287714	HOUSING, bearing, 3900	1	203	104008	WASHER, 5900 only	4
	287715	HOUSING, bearing, 5900	1	202	102962	SCREW, 5900 only	4
89	15C762	SHIELD, pump rod	1	204	100214	WASHER, 3900	4
90	110996	NUT, hex, flange head	2		106115	WASHER, 5900	4
91	113467	SCREW, cap, socket hd, 3900	4	372	112960	SCREW	4
	114666	SCREW, cap, socket hd, 5900	4				

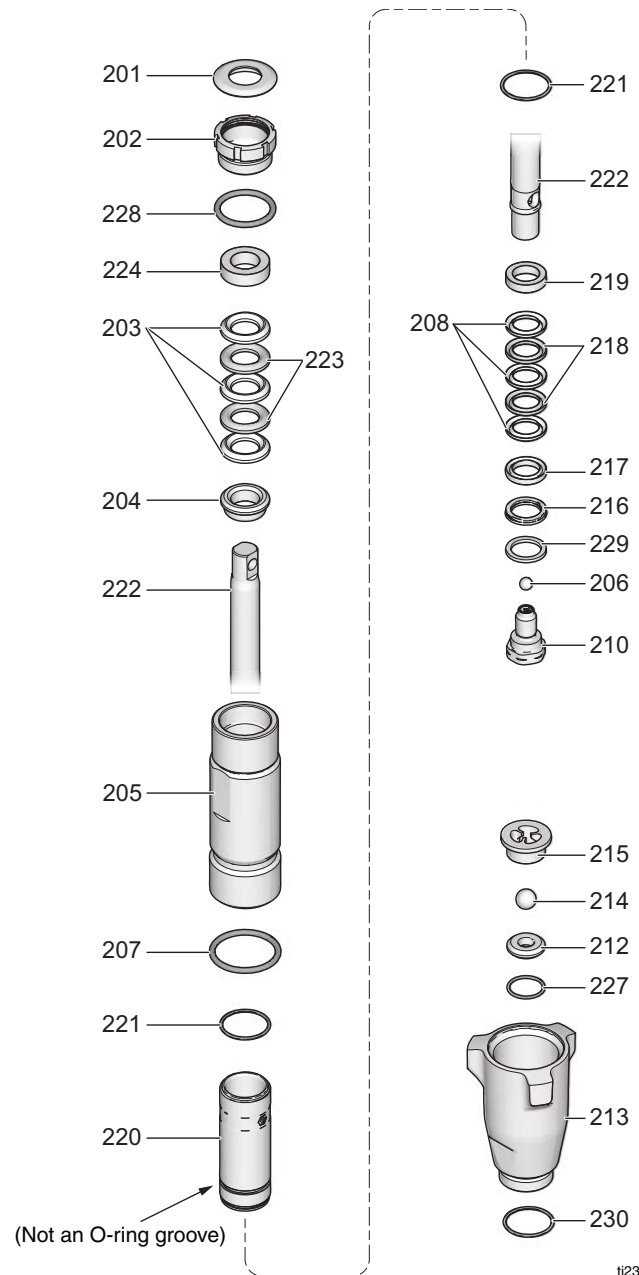
▲ Replacement warning labels may be ordered free of charge

† Included in Clutch Repair Kit 241109 (3900) and 241113 (5900)

Parts - Pump 248205, 249057, 249059, 277070, 257146

Series A

Ref.	Part	Description	Qty.
201*	183171	PLUG	1
202	193032	NUT, packing	1
203**	193124	V-PACKING, throat, V-Max, UHMWPE, blue	4
204**	15C989	GLAND, packing, male, throat	1
205	243347	CYLINDER, pump	1
	196754	Model 248205, 277070	
206		Model 249057, 249059, 257146	
		BALL, 0.375 in.	1
	101947*	Model 248205, 249057, 277070, 257146	
	116327*	Model 249059, ceramic	
207**	156633	PACKING, o-ring	1
208**	193125	V-PACKING, piston, V-MAX, UHMWPE, blue	4
210	240150	VALVE, piston	1
212*		KIT, seat, carbide (includes 214, 227)	1
	244199	Model 248205, 249057, 277070, 257146	
	244571	Model 249059	
213		HOUSING, intake (foot)	1
	15C783	Model 248205	
	196753	Model 249059, 249057	
	195894	Model 277070, 257146	
214		BALL	1
	102972*†	Model 248205, 249057, 277070, 257146, 0.875 in.	
	111453*	Model 249059, ceramic, 0.750 in.	1
215		GUIDE, ball	1
	196967	Model 249059, 249057	
	193027	Model 248205, 277070, 257146	
216**	118504	WIPER, piston	1
217**	183185	GLAND, female, piston	1
218**	15E329	V-PACKING, leather, piston	3
219**	183178	GLAND, packing, male	1
220		SLEEVE, cylinder	1
	248210	Model 248205, 249057, 249059, 277070	
	257031	Model 257146	
221**	107098	PACKING, o-ring	2
222		ROD, piston	1
	248207	Model 248205, 277070	
	249028	Model 249059, 249057, 257146	
223**	183175	V-PACKING, leather, throat	3
224**	15C990	GLAND, female, throat	1
227*†*	108526	PACKING, o-ring	1
228*	C20987	SPACER, nut	1
229**	15C998	WASHER, backup	1
230**	118494	O-RING, fluoroelastomer (not used on 249057, 249059, 257146)	1
231	117608	NIPPLE, straight	1
		Model 249057, 249059 (not shown)	
232	162485	ADAPTER, 3/8 npt x 3/8 npsm	1
		Model 249057, 249059, 257146 (not shown)	



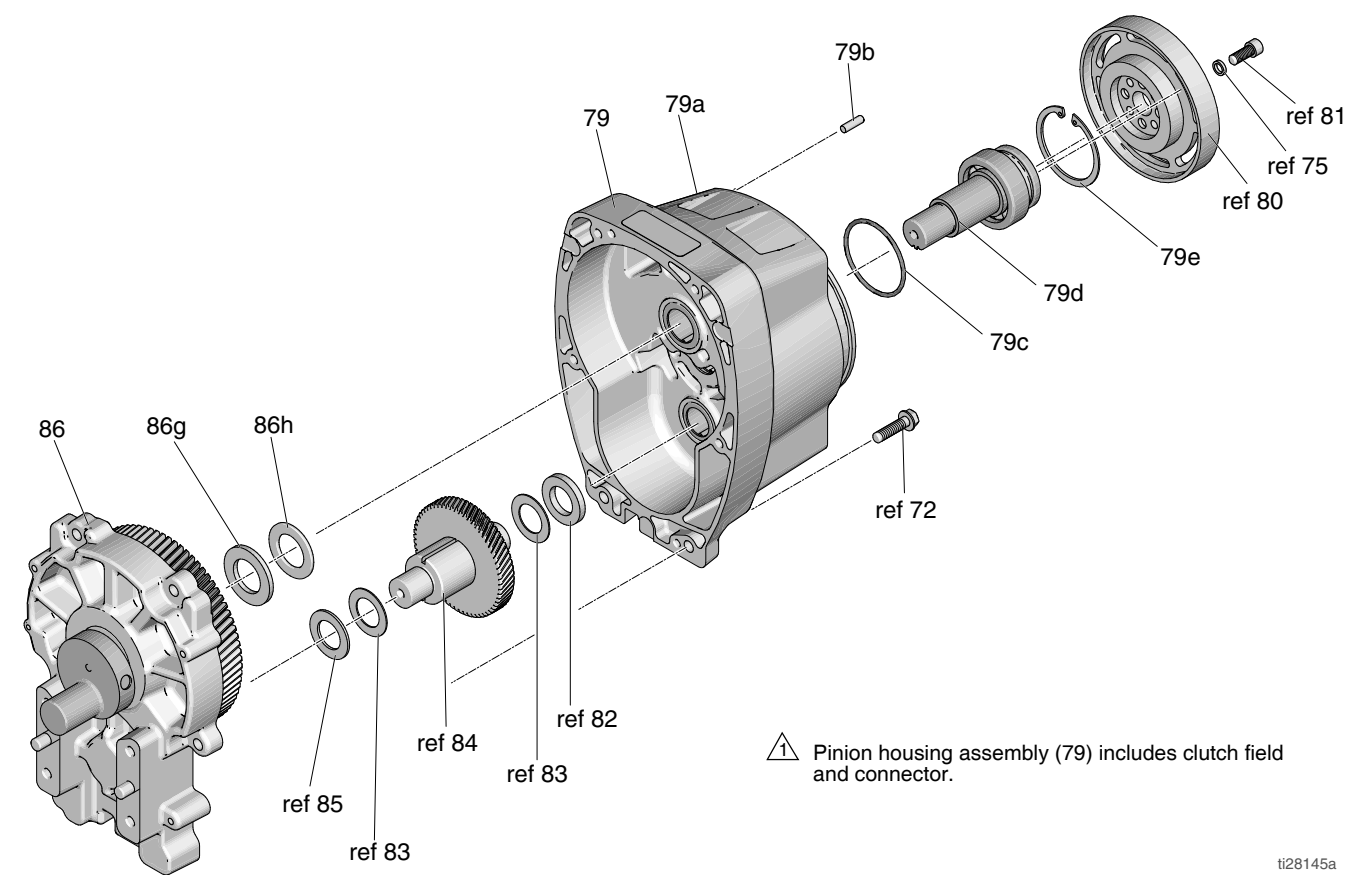
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* These parts are also included in Repair Kit 248213, which may be purchased separately.

† These parts are also included in Carbide Seat Kit 244199, which may be purchased separately.

* These parts are also included in Pump Repair Kit 249189, which may be purchased separately.

Parts Drawing - Drive and Pinion Housing Assemblies



ti28145a

Parts List

Ref No. 86 and 79

Ref No. 86: Drive Housing Assembly 287467 for LineLazer V 3900; Drive Housing Assembly 287469 for LineLazer V 5900

Ref	Part	Description	Qty
86	287467	HOUSING, drive, 3900	1
	287469	HOUSING, drive, 5900	1
86g		WASHER	
	107089	LineLazer IV 3900	1
86h	194173	LineLazer IV 5900	1
		WASHER	
	116191	LineLazer IV 3900	1
	116192	LineLazer IV 5900	1

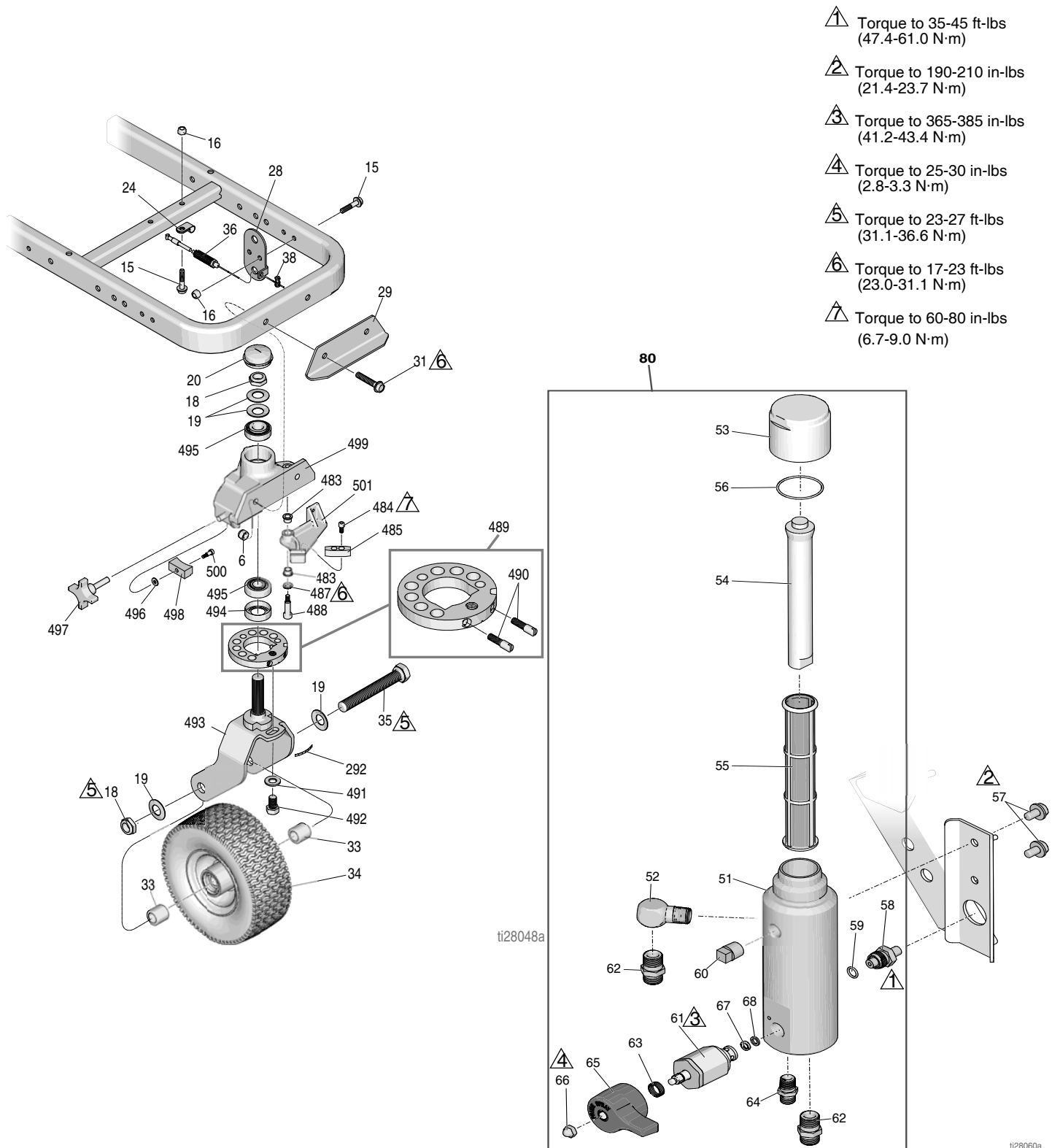
Ref No. 79: Pinion Housing Assembly 287463 for LineLazer V 3900; Pinion Housing Assembly 287465 for LineLazer V 5900

Ref	Part	Description	Qty
79	287463	HOUSING, pinion (3900)	1
	287465	HOUSING, pinion (5900)	1
79a		KIT, repair, coil	
	287474	LineLazer IV 3900	1
	287476	LineLazer IV 5900	1
79b	105489	PIN	2
79c		O-RING	
	165295	LineLazer IV 3900	1
	114683	LineLazer IV 5900	1
79d*		PINION SHAFT	
	241110	LineLazer IV 3900	1
	241114	LineLazer IV 5900	1
79e*		RETAINING RING, large	
	113094	LineLazer IV 3900	1
	112770	LineLazer IV 5900	1

* Must be ordered separately.

Parts Drawing - LineLazer V 3900, 5900

Swivel Wheel Assembly & Filter



Parts List

Swivel Wheel Assembly

Ref	Part	Description	Qty
6	101566	NUT, lock	2
15	112960	SCREW, cap, flng hd	3
16	111040	NUT, lock, insert, nylon, 5/16	3
18*‡	112405	NUT, lock	2
19*‡	112825	WASHER	4
20*‡	114648	CAP, dust	1
24	108868	CLAMP, wire	1
28‡	15F910	BRACKET, cable	1
29	240991	BRACKET, caster, front	1
31	114982	SCREW, cap, flng hd	2
33*‡	193658	SPACER, seal	2
34*	114549	WHEEL, pneumatic	1
35*	113471	SCREW, cap, hex hd	1
36‡	241445	CABLE (includes 38)	1
38‡	114802	STOP, wire	1
292*‡	17H489	LABEL, disk adjustment	1
483*‡	114548	BEARING, bronze	2
484*‡	110754	SCREW, cap, sch	2
485*‡	193662	STOP, wedge	1
487*‡	15J603	SPACER, round	1
488*‡	120476	BOLT, shoulder	1
489*‡	17H486	DISK, adjuster, assembly	1
490*‡	17G762	SCREW, disk adjuster	2
491*‡	113962	WASHER	1
492*‡	114681	SCREW, cap, hex hd	1
493*‡	17H485	FORK	1
494*‡	113484	SEAL, grease	1
495*‡	113485	BEARING, cup/cone	2
496*‡	112776	WASHER, plain	1
497*‡	181818	KNOB, pronged	1
498*‡	193661	JAW	1
499*‡	15G952	CASTER	1
500*‡	108483	SCREW, shoulder	1
501*‡	193528	ARM, detent	1

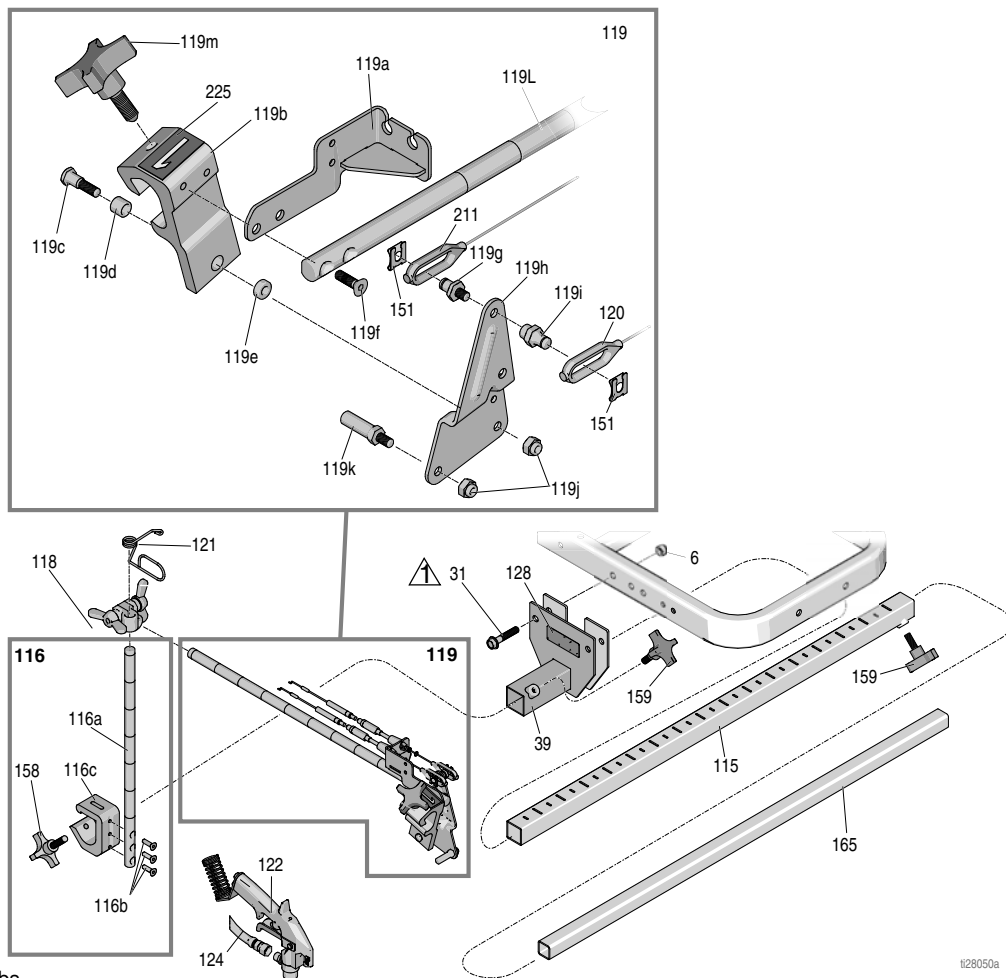
* Included in Swivel Wheel Repair Kit 240719

‡ Included in Swivel Wheel Repair Kit 241105

Filter

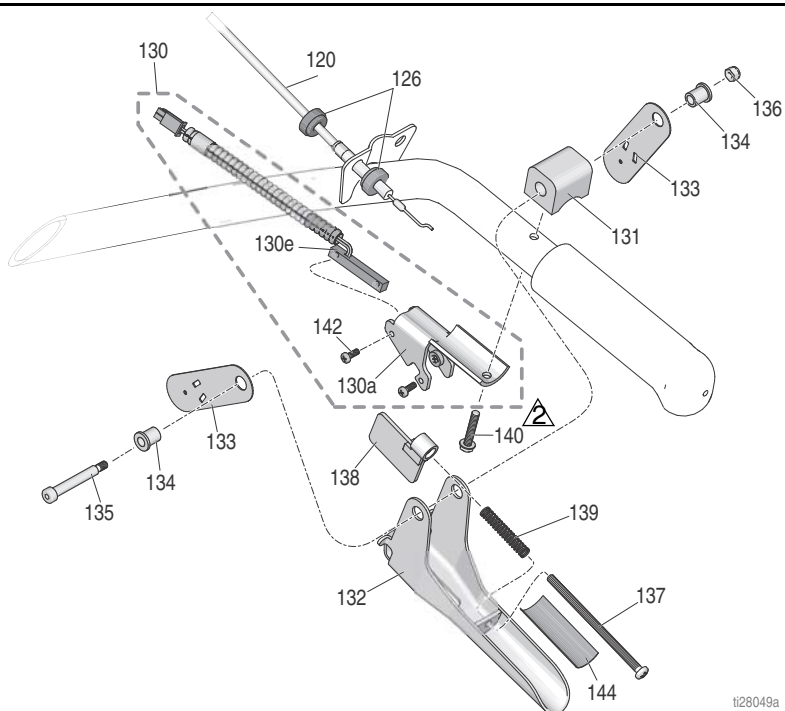
Ref	Part	Description	Qty
51	17K166	MANIFOLD	1
52	196179	FITTING, elbow, street	1
53	287285	CAP, filter (includes 54, 56)	1
54	15C766	TUBE, diffusion	1
55	25A465	FILTER, fluid	1
56	117285	PACKING, o-ring	1
57	111801	SCREW, cap, hex hd	2
58	24N516	KIT, repair, transducer	1
59	111457	O-RING	2
60	15G331	PLUG, pipe	2
61	245103	VALVE, drain, assy (includes 63, 65, 66, 67, 68)	1
62	196178	ADAPTER, nipple	1
63	114708	SPRING, compression	1
64	196181	FITTING, nipple	1
65	15G563	HANDLE, valve	1
66	116424	NUT, cap	1
67	193709	SEAT, valve	1
68	193710	SEAL, seat, valve	1
80	25A877	KIT, repair, filter, manifold	1

Parts Drawing - LineLazer V 3900, 5900



⚠ Torque to 17-23 ft-lbs
(23.0-31.1 N·m)

⚠ Torque to 18-22 in-lbs
(2.0-2.4 N·m)



Parts List

Gun Holder and Arm

Ref	Part	Description	Qty
6	101566	NUT, lock	2
31	114982	SCREW, cap, flng hd	2
39	17H528	BRACKET, gun arm	1
115	17J407	ARM, extension, bar	1
116	17J424	BAR, height adjustment, assy	1
116a	17J139	BAR, gun, height, adjustment	1
116b	113428	SCREW, mach, hex, hd	3
116c	17J153	BRACKET, gun holder	1
118	24Y645	KIT, clamp, double wing nut	1
119	25A529	ARM, gun holder, linelazer (includes 151)	1
119a	24Y919	BRACKET, cable	1
119b*	15F216	HOLDER, gun	1
119c	17J575	FASTENER, special	1
119d*	119664	BEARING, sleeve	1
119e	17J576	SPACER, special	1
119f	119647	SCREW, cap, socket	2
119g	17H673	STUD, cable, gun	1
119h	15F214	LEVER, actuator	1
119i	17H674	ADAPTER, cable, gun	1
119j	102040	NUT, lock hex	2
119k	15F209	STUD, pull, trigger	1
119l	17J145	ARM, holder, gun	1
119m*	15F750	KNOB, holder, gun	1
120	25A488	CABLE, gun, manual (includes 126, 151)	1
121	188135	GUIDE, cable	1
122	248157	GUN, flex, basic	1
128▲	16P136	LABEL, safety, warning, iso	1
151	126111	RETAINER, circlip, external, 8mm	2
158	108471	KNOB, pronged	1
159	111145	KNOB, pronged	2
165	17J408	ARM, extension, third gun	1
211	25A487	CABLE, gun, automatic (includes 151, 212, 213)	1
225	17C043	LABEL, number "1"	1
	17C046	LABEL, number "2"	1

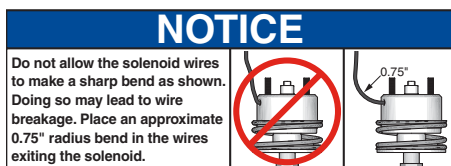
* Included in Gun Holder Repair Kit 287569

▲ Replacement Warning Labels may be ordered free of charge.

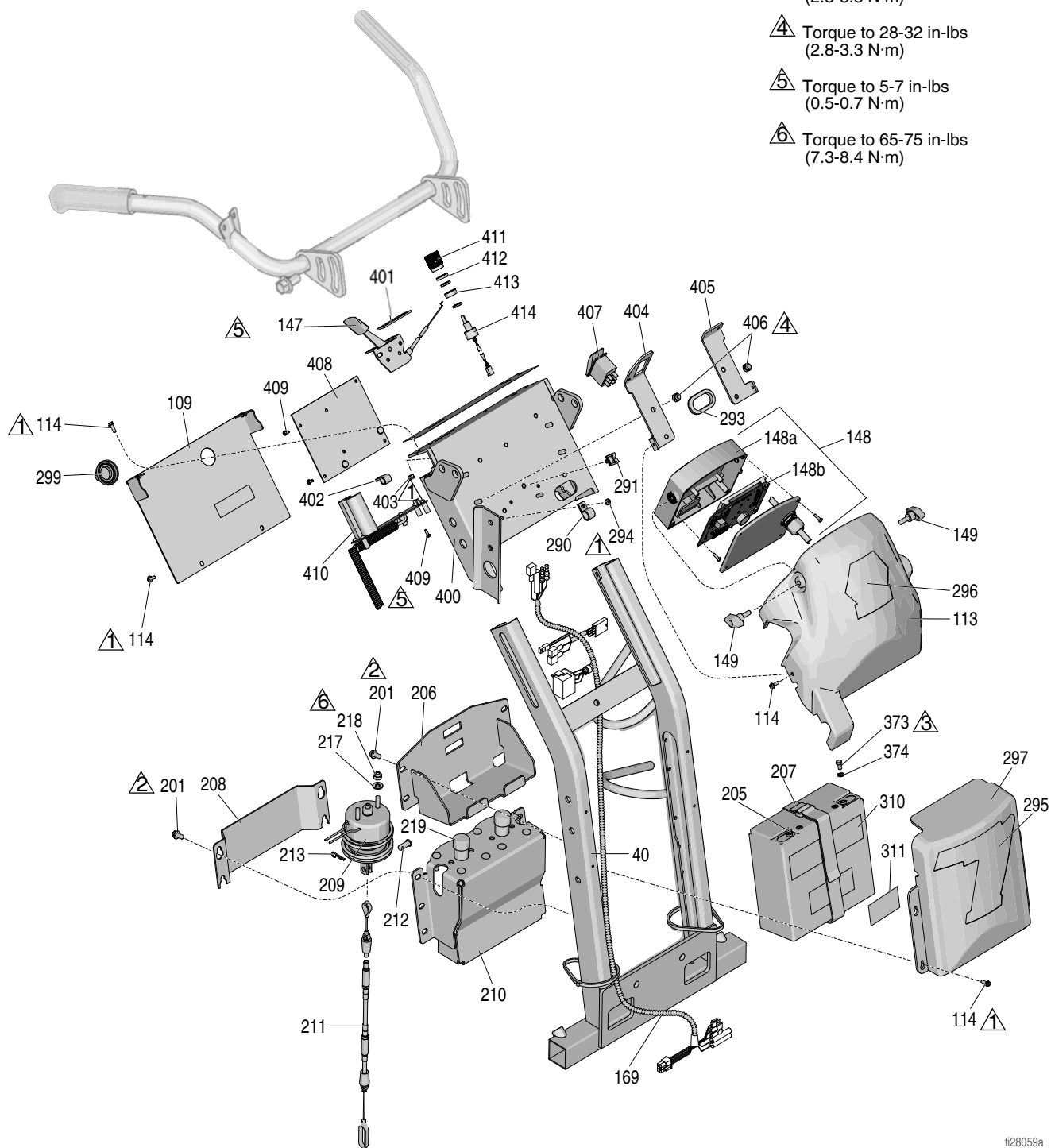
Gun Trigger

Ref	Part	Description	Qty
120	25A488	CABLE, gun, manual (includes 126, 151)	1
124	245798	HOSE, coupled 1/4" x 7'	1
126	15F624	NUT, cable, gun (knurled)	2
130	25A636	BRACKET, trigger w switch	1
130a	276907	BRACKET, magnet	1
130e	17J237	SWITCH, reed	1
131	198896	BLOCK, mounting	1
132	245676	HANDLE	1
133	198895	PLATE, lever, pivot	2
134	111017	BEARING, flange	2
135	116941	SCREW, shoulder, skt hd	1
136	116969	NUT, lock	1
137	112381	SCREW, mach, pan head	1
138	117268	BRACKET, interrupter	1
139	117269	SPRING	1
140	128803	SCREW, thd forming, hex washer	1
142	117317	SCREW, plastine, pan head	2
144	17K587	LABEL, notice, adjustment	1

Parts Drawing - LineLazer V 3900, 5900



- Torque to 18-22 in-lbs (2.0-2.4 N-m)
- Torque to 130-150 in-lbs (14.6-16.9 N-m)
- Torque to 25-30 in-lbs (2.8-3.3 N-m)
- Torque to 28-32 in-lbs (2.8-3.3 N-m)
- Torque to 5-7 in-lbs (0.5-0.7 N-m)
- Torque to 65-75 in-lbs (7.3-8.4 N-m)



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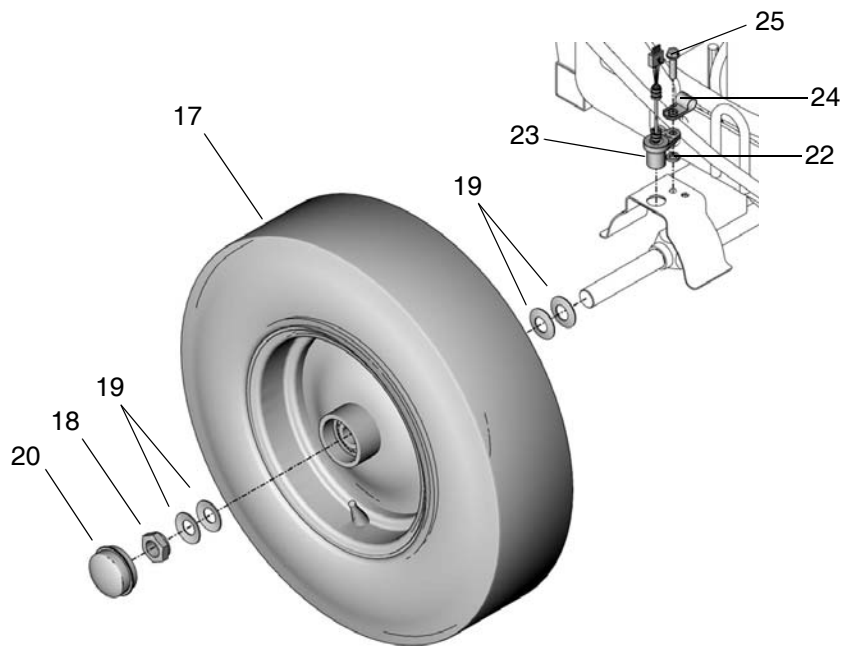
Parts List

Ref	Part	Description	Qty	Ref	Part	Description	Qty
40	24Y665	FRAME, handle upright, painted	1	293	17H701	GROMMET, oval	1
109	17J123	PLATE, cover	1	294	115483	NUT, lock	2
113	17J135	COVER, control, painted	1	295	17K378	LABEL	1
114	128978	SCREW, mach, slot hex wash hd	12	296	17K379	LABEL	1
147	24Y643	CONTROL, throttle (includes 401, 402, 403)	1	297	17K377	COVER, battery, painted	1
148	25A498	BOX, control assembly complete (includes 149)	1	299	17K310	PLUG, standard series	1
148a	25A497	KIT, repair, membrane switch	1	310	17K397	LABEL	1
148b	25A496	KIT, repair, display board	1	311	17K396	LABEL	1
149	16W408	KNOB, t-handle, 1/4-20 thd stud	2	373	128131	SCREW	2
169	17J514	WIRE, harness	1	374	111307	WASHER	2
201*	107257	SCREW, thd forming	10	400	24Y642	CONTROL, plate	1
205*	24X370	BATTERY, 22 AH, sealed (includes 373, 374)	1	401	15F776	GASKET	1
206*	17H644	SHELF, battery	1	402	119736	CLAMP	1
207*	126949	STRAP, battery	1	403	111280	NUT	3
208*	17H650	COVER, solenoid	1	404	17J128	BRACKET	1
209*	25A486	KIT, solenoid (includes 212, 213, 217, 218, 219)	1	405	17J126	BRACKET	1
210*	24Y777	BRACKET	1	406	102040	NUT	4
211*	25A487	CABLE, auto (includes 212, 213, 151)	1	407	128783	SWITCH	1
212*	128711	PIN	1	408	25A493	KIT, main board, standard series (includes 409)	1
213*	15R598	CLIP	1		25A494	KIT, main board, hp auto series (includes 409)	1
217*	110755	WASHER	2	409	106520	SCREW	11
218*	121114	NUT	2	410*	25A495	KIT, charger board (includes 409)	1
219*	128712	CAP	2	411	116167	KNOB	1
290	128856	CLAMP, cable, nylon, 1/2"	2	412	15C973	GASKET	1
291	114687	CLIP, retainer	2	413	198650	SPACER	1
				414	256219	POTENTIOMETER	1

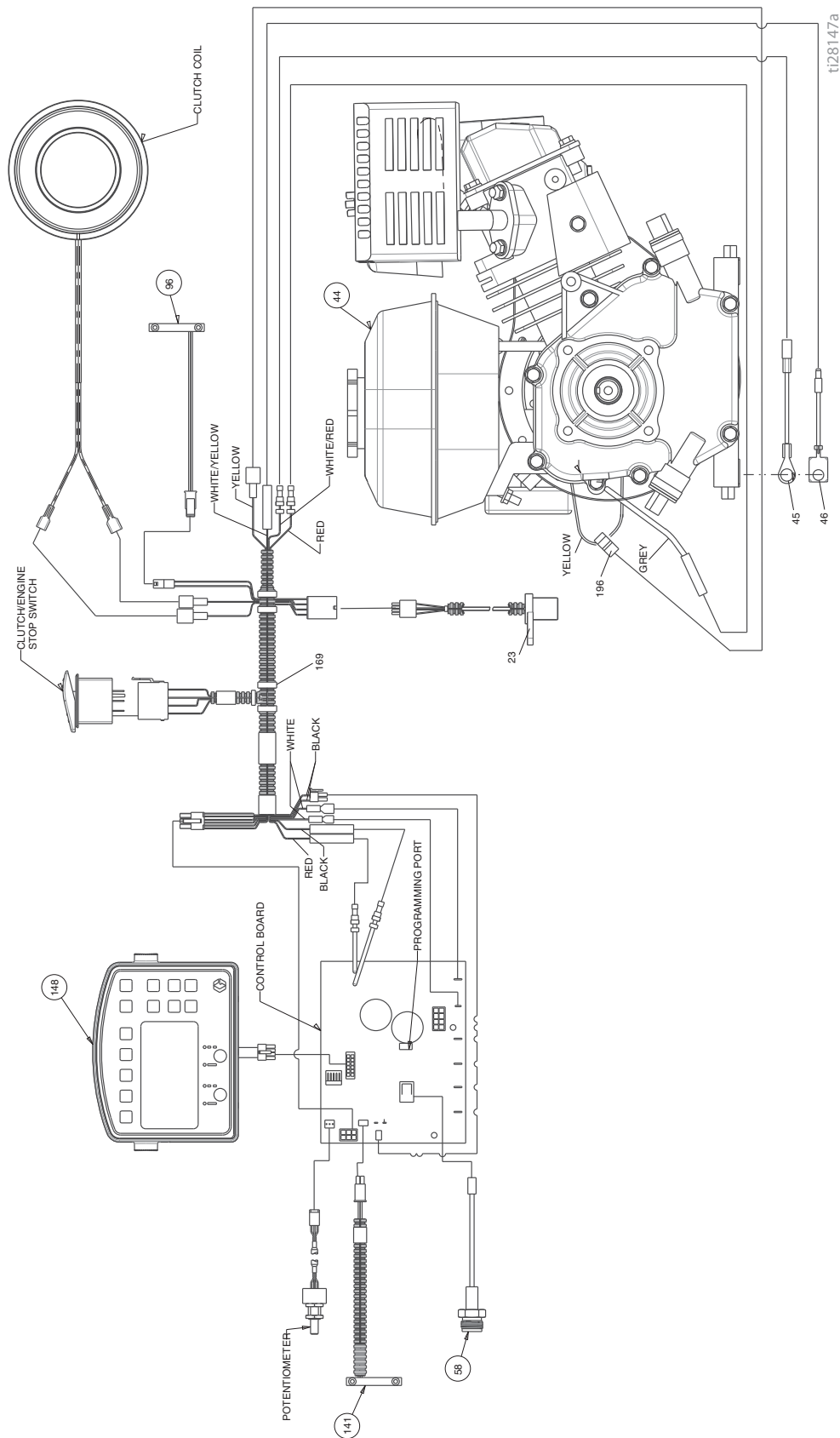
* HP Auto Series Only

Distance Sensor Replacement

1. Remove wheel (17) from LineLazer.
2. Remove screw (25), wire clamp (24) and distance sensor (23).
3. Install new distance (23) with wire clamp (24) and screw (25).
4. Install wheel (17) on LineLazer.



Wiring Diagram (Standard Series)



Wiring Diagram (HP Auto Series)

