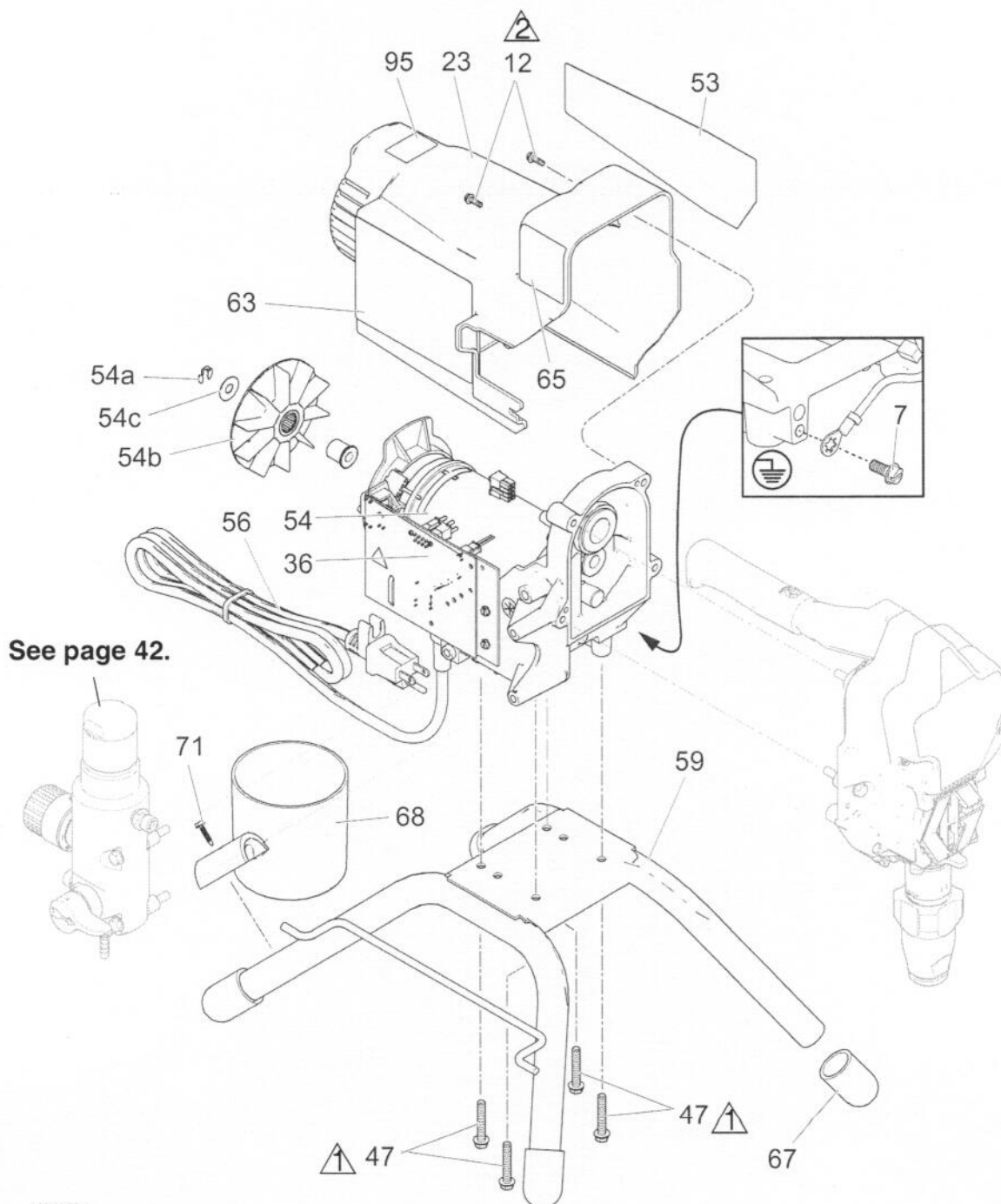


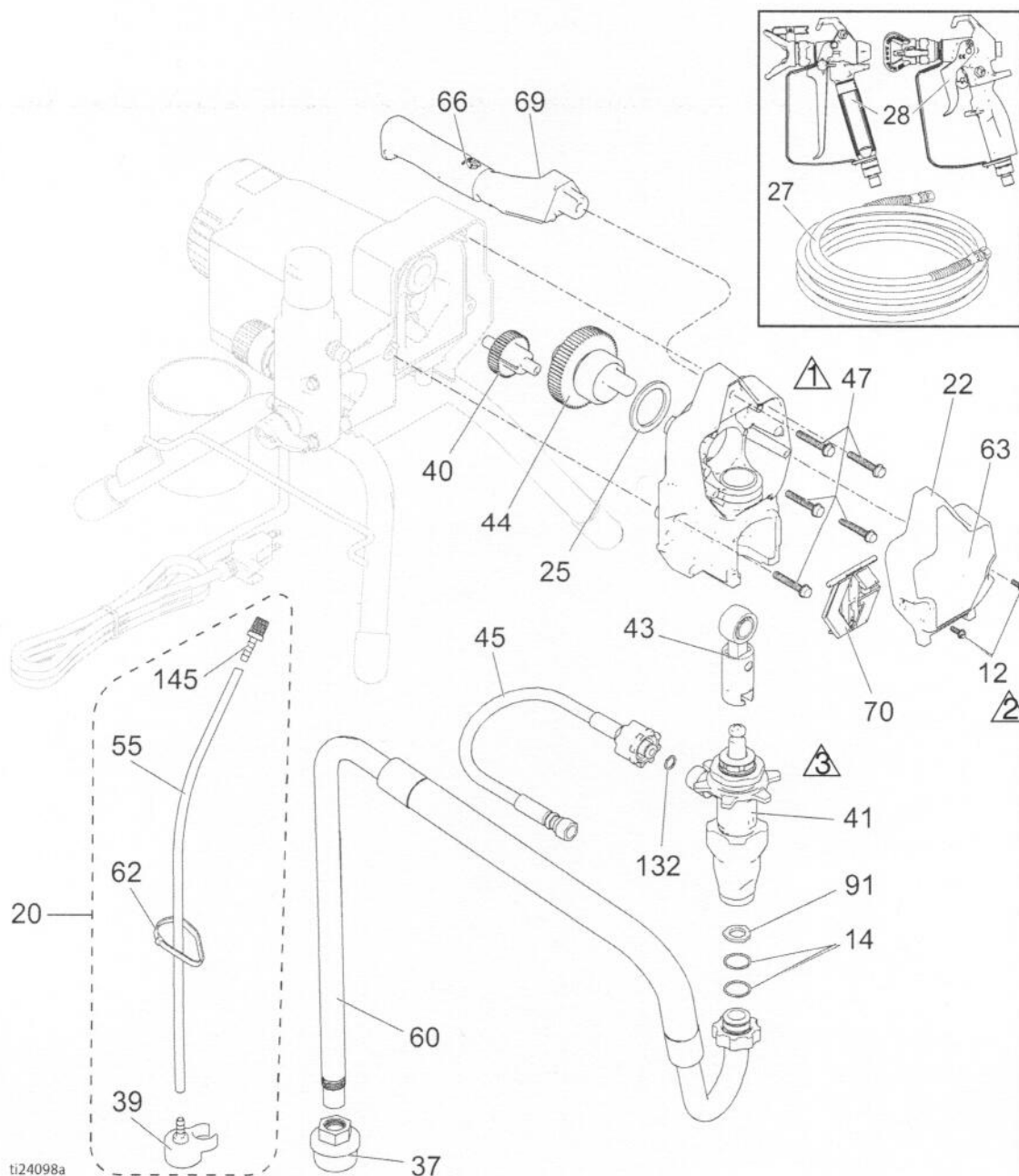
Sprayers Parts

Ref.	Torque
	140-160 in-lb (15.8 - 18.1 N•m)
	30-35 in-lb (3.4 - 4.0 N•m)



ti24099a

Ref.	Torque
①	140-160 in-lb (15.8 - 18.1 N•m)
②	30-35 in-lb (3.4 - 4.0 N•m)
③	Hammer tight



ti24098a

Sprayers Parts

190, 290, 390 Stand Sprayers Parts List

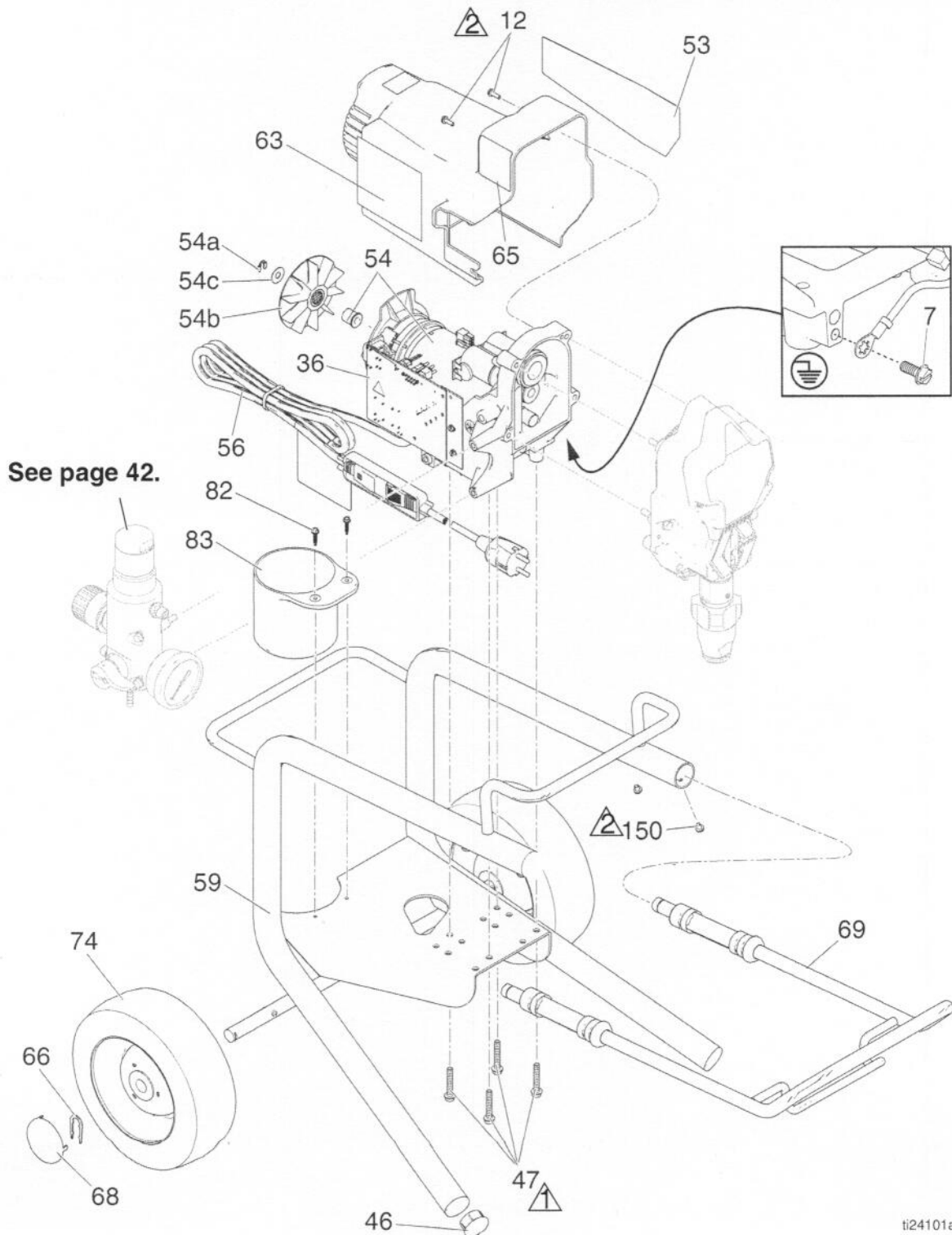
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
7	115498	SCREW, mch, slot/hex, wash hd	1	44	24X020	GEAR, crankshaft <i>includes 25</i>	1
12	117501	SCREW, mach, slot hex wash hd	4	45	24W830	KIT, hose, cpd <i>includes 132</i>	1
14	117559	O-RING	2	47	117493	SCREW, mach, hex washer hd	9
20	249051	KIT, tube, drain <i>includes 39, 55, 62, 145</i>	1	52	See page 41	LABEL, front	1
22		COVER, front	1	53	See page 41	LABEL, side	1
	17C540	Stand models 17A322, 17A323, 17C117, 17C341, 17C438, 17C344, 17C384		54 *		KIT, motor, electric <i>includes 54a, 54b, 54c</i>	1
	17C539	Stand models 17C310, 17C346, 17C347, 17C348, 17C385, 17C386, 17C389, 826195			17C794	110/120V	
		SHIELD, motor	1		17C799	230V	
23	15E341	Stand models 17A322, 17A323, 17C117, 17C341, 17C438, 17C344, 17C384		54a	119653	RING, retaining, E-ring	1
	15J371	Stand models 17C310, 17C346, 17C347, 17C348, 17C385, 17C386, 17C389, 826195		54b	17C583	FAN, motor, roller, clutch	1
25	180131	BEARING, thrust	1	54c	16X726	WASHER, shim, round	1
27	See page 41	HOSE, cpd, 1/4 in. x 25 or 50 ft	1	55	15E818	TUBE, drain	1
28	See page 41	GUN, spray	1	56	See page 42	CORD, power	1
34▲	See page 41	CARD, medical alert (not shown)	1	59	15E823	FRAME, stand mount	1
36▲	189930	LABEL, caution	1	60	246386	HOSE, suction set <i>includes 14, 37, 91</i>	1
37	246385	STRAINER, 7/8-14 unf	1	62	404989	STRAP, tie	1
39	244035	DEFLECTOR, barbed	1	63▲	See page 41	LABEL, warning	1
40	249194	GEAR, reducer	1	65▲	See page 41	LABEL, warning icons intl	1
41		PUMP, displacement	1	66	116139	GRIP, handle	1
	17C487	North America		67	15G857	CAP, leg	4
	17C488	Europe		68	287903	CUP, suction/drain	1
	17C489	Asia/ANZ/Japan		69	287072	HANDLE <i>includes 47, 66</i>	1
42	24W817	HOUSING, drive <i>includes 47</i>	1	70	17C483	COVER, pump rod	1
43	24W640	ROD, connecting	1	71	122667	SCREW, drill, hex washer head	1
				91	115099	WASHER	1
				132	16H137	PACKING, O-RING	1
					206994	FLUID, TSL, 8 oz (not shown)	1
				145	M70809	FITTING, barbed, hose	1

* For motor brush kit order 249042

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

390 Lo-Boy Sprayer Parts

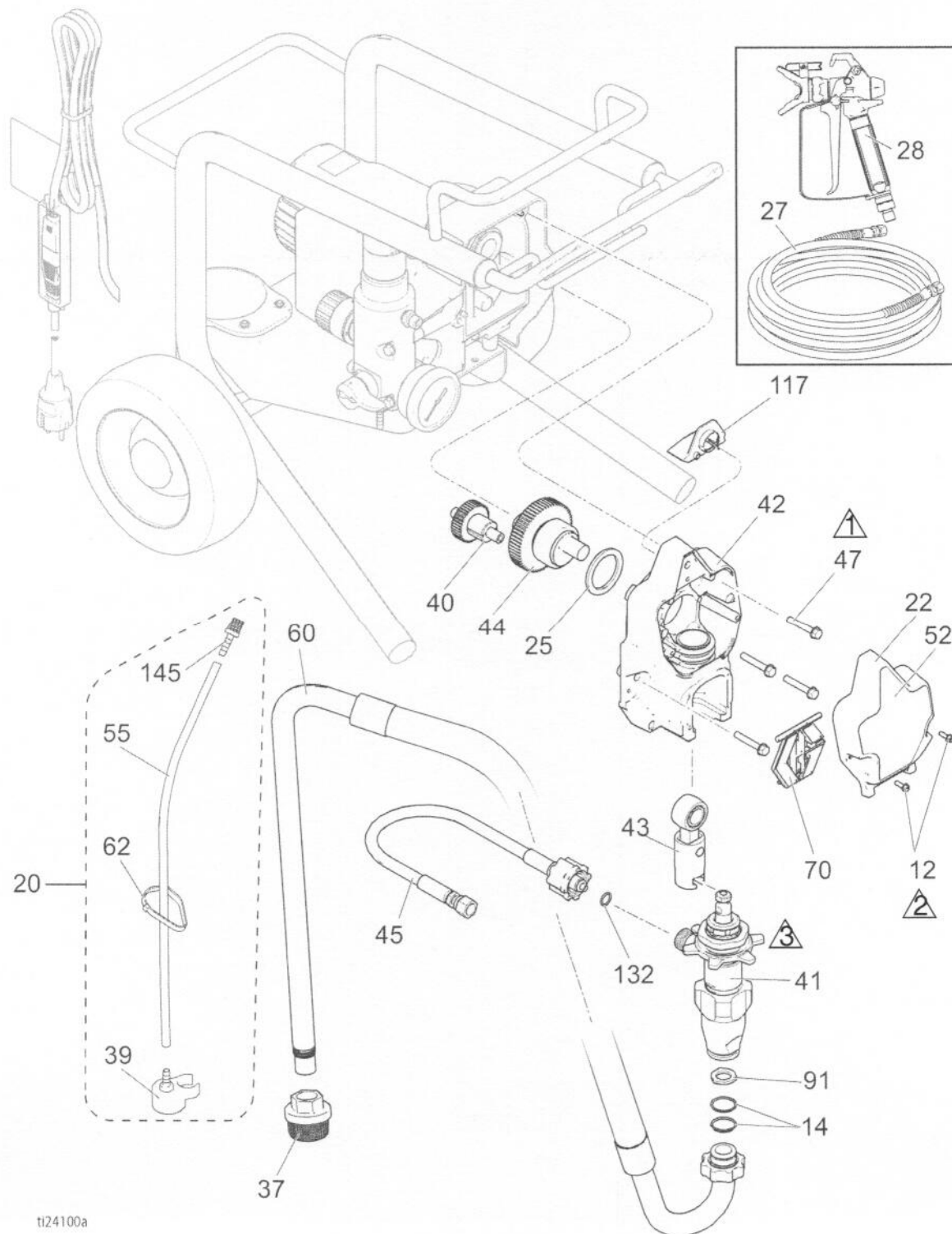
Ref.	Torque
①	140-160 in-lb (15.8 - 18.1 N•m)
②	30-35 in-lb (3.4 - 4.0 N•m)



ti24101a

390 Lo-Boy Sprayer Parts

Ref.	Torque
△1	140-160 in-lb (15.8 - 18.1 N•m)
△2	30-35 in-lb (3.4 - 4.0 N•m)
△3	Hammer tight



tl24100a

390 Lo-Boy Sprayer Parts

390 Lo-Boy Sprayer Parts List

Ref. Part	Description	Qty.	Ref. Part	Description	Qty.
7	115498 SCREW, mch, slot/hex, wash hd	1	54b 17C583	FAN, motor, roller, clutch	1
12	117501 SCREW, mach, slot hex wash hd	4	54c 16X726	WASHER, shim, round	1
14	117559 O-RING	2	55 15E818	TUBE, drain	1
20	249051 KIT, tube, drain <i>includes 39, 55, 62, 145</i>	1	56 See page 42	CORD, power	1
22	17C539 COVER, front	1	59 246250	FRAME, cart, lo	1
23	15J371 SHIELD, motor	1	60 246386	HOSE, suction set <i>includes 14, 37, 91</i>	1
25	180131 BEARING, thrust	1	62 404989	STRAP, tie	1
27	240794 HOSE, cpld, 1/4 in. x 50 ft	1	63▲ 15H087	LABEL, warning	1
28	288427 GUN, spray	1	65▲ 189930	LABEL, warning icons intl	1
34▲	17A134 CARD, medical alert (not shown)	1	66 15B999	CLIP, retaining	2
37	246385 STRAINER, 7/8-14 unf	1	68 104811	CAP, hub	2
39	244035 DEFLECTOR, barbed	1	69 287488	HANDLE	1
40	249194 GEAR, reducer	1	70 17C483	COVER, pump rod	1
41	17C489 PUMP, displacement	1	74 195766	WHEEL, semi-pneumatic	2
42	24W817 HOUSING, drive <i>includes 47</i>	1	82 122667	SCREW, drill, hex washer hd	2
43	24W640 ROD, connecting	1	83 15B870	CUP, suction/drain	1
44	24X020 GEAR, crankshaft <i>includes 25</i>	1	91 115099	WASHER	1
45	24W830 KIT, hose, cpld <i>includes 132</i>	1	117 15G447	PLUG, shield, painted	1
46	107310 PLUG, tubing	2	132 16H137	PACKING, O-RING	1
47	117493 SCREW, mach, hex washer hd	8	145 M70809	FITTING, barbed, hose	1
52	17C819 LABEL, front	1	150 109032	SCREW, mach, pnh	4
53	17C820 LABEL, side	1	206994	FLUID, TSL, 8 oz (not shown)	1
54 *	17C798 KIT, motor, electric, 230V <i>includes 54a, 54b, 54c</i>	1			
54a	119653 RING, retaining, E-ring	1			

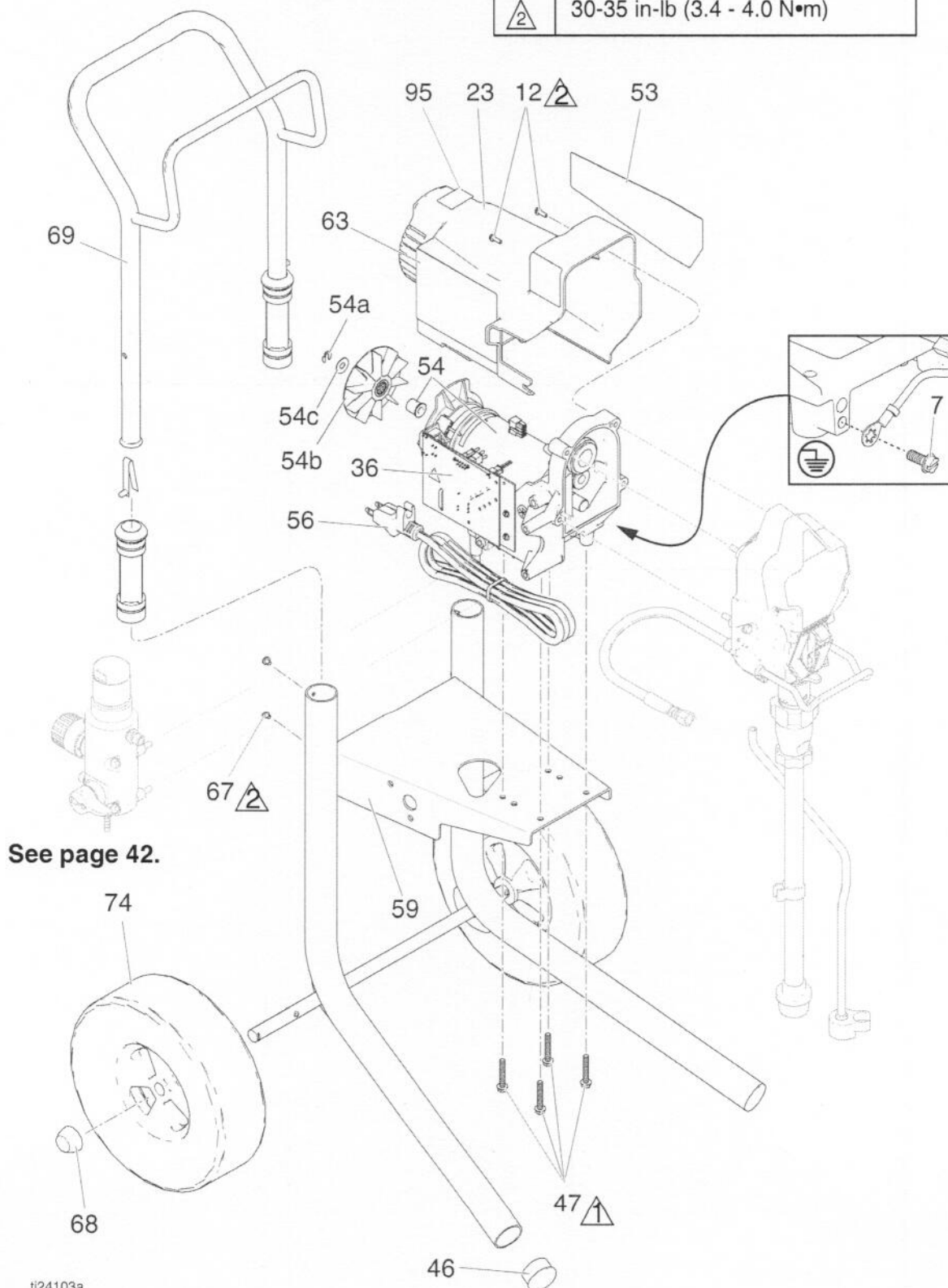
* For motor brush kit order 249042

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

190, 290, 390 Hi-Boy Sprayers Parts

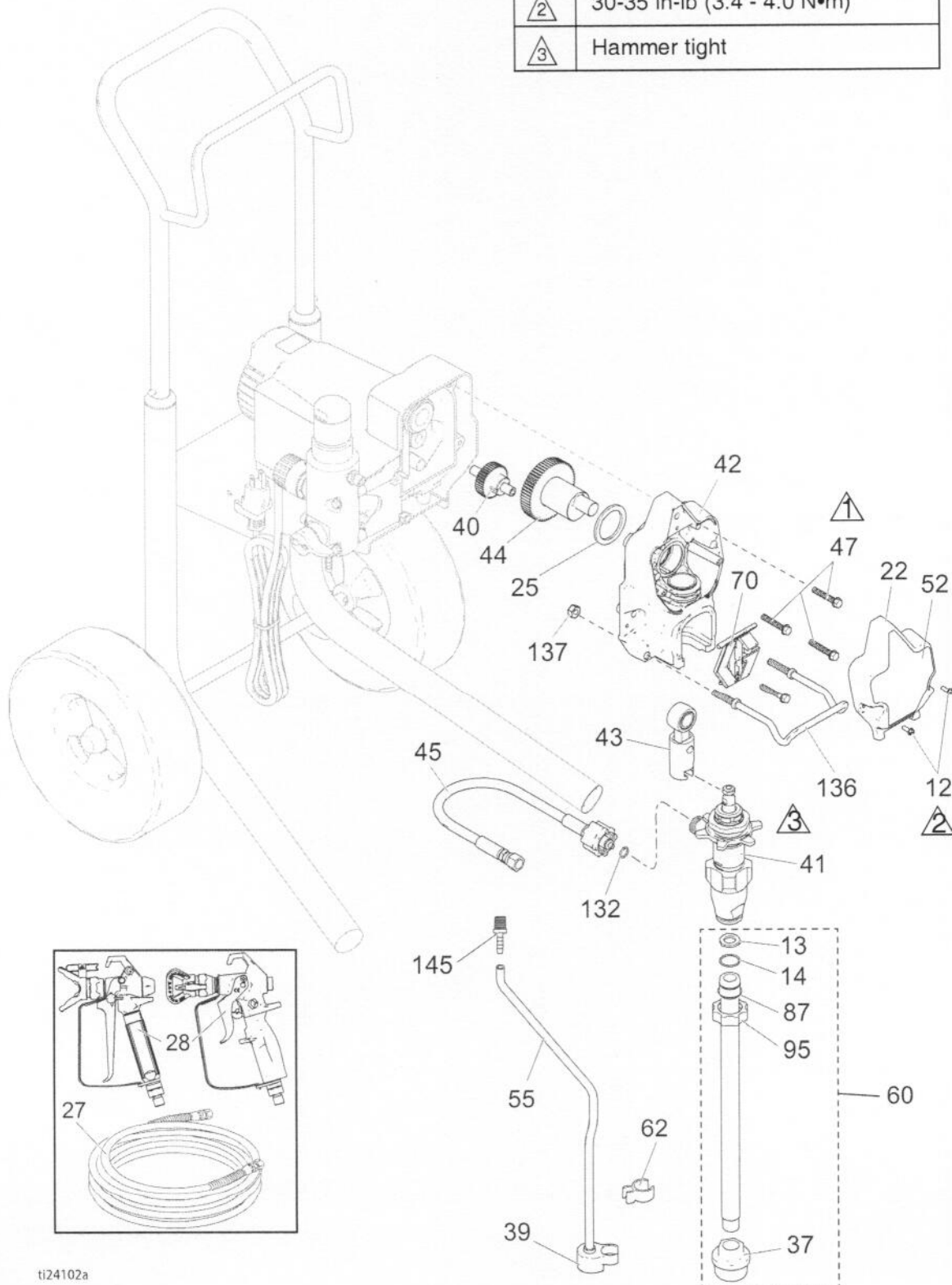
190, 290, 390 Hi-Boy Sprayers Parts

Ref.	Torque
	140-160 in-lb (15.8 - 18.1 N•m)
	30-35 in-lb (3.4 - 4.0 N•m)



190, 290, 390 Hi-Boy Sprayers Parts

Ref.	Torque
	140-160 in-lb (15.8 - 18.1 N•m)
	30-35 in-lb (3.4 - 4.0 N•m)
	Hammer tight



ti24102a

190, 290, 390 Hi-Boy Sprayers Parts

190, 290, 390 Hi-Boy Sprayers Parts List

Ref. Part	Description	Qty.	Ref. Part	Description	Qty.
7	115498 SCREW, mch, slot/hex, wash hd	1	52	See page 41 LABEL, front	1
12	117501 SCREW, mach, slot hex wash hd	4	53	See page 41 LABEL, side	1
13	115099 WASHER	1	54 *	KIT, motor, electric includes 54, 54b, 54c	1
14	103413 PACKING, O-ring	1		17C794 110/120V	
22	COVER, front	1		17C799 230V	
	17C540 Hi-Boy models 17C342, 17C343		54a	17C583 FAN, motor, roller, clutch	1
	17C539 Hi-Boy models 17C313, 17C349, 17C350, 17C351, 17C388		54b	16X726 WASHER, shim, round	1
			54c	119653 RING, retaining, E-ring	1
23	SHIELD, motor	1	55	15K092 TUBE, drain	1
	15E341 Hi-Boy models 17C342, 17C343		56	See page 42 CORD, power	1
	15J371 Hi-Boy models 17C313, 17C349, 17C350, 17C351, 17C388		59	17C485 FRAME, cart universal	1
25	180131 BEARING, thrust	1	60	15J801 HOSE, suction set includes 13, 14, 37, 87, 95	1
27	See page 41 HOSE, cpld, 1/4 in. x 25 or 50 ft	1	62	195400 CLIP, spring	1
28	See page 41 GUN, spray	1	63▲	See page 41 LABEL, warnings	1
34▲	See page 41 CARD, medical alert (not shown)	1	65▲	See page 41 LABEL, warning	1
36▲	189930 LABEL, caution	1	67	109032 SCREW, mach, pnh	4
37	235004 STRAINER, 7/8-14 unf	1	68	119452 CAP, hub	2
39	244035 DEFLECTOR, barbed	1	69	287489 HANDLE assy, hi cart	1
40	249194 GEAR, reducer	1	70	17C483 COVER, pump rod	1
41	PUMP, displacement	1	74	119451 WHEEL, semi-pneumatic	2
	17C487 North America		87	15B652 WASHER, suction	1
	17C488 Europe		95	15E813 NUT, jam	1
	17C489 Asia/ANZ/Japan		132	16H137 PACKING, O-ring	1
42	24W817 HOUSING, drive includes 47	1	136	17C990 HANGER, pail	1
43	24W640 ROD, connecting	1	137	111040 NUT, lock, insert	2
44	24X020 GEAR, crankshaft includes 25	1	145	M70809 FITTING, barbed, hose	1
45	24W830 KIT, hose, cpld includes 132	1		206994 FLUID, TSL, 8 oz (not shown)	1
46	108691 PLUG, tubing	2			
47	117493 SCREW, mach, hex washer hd	8			

* For motor brush kit order 249042

▲Replacement Danger and Warning labels, tags, and cards are available at no cost.

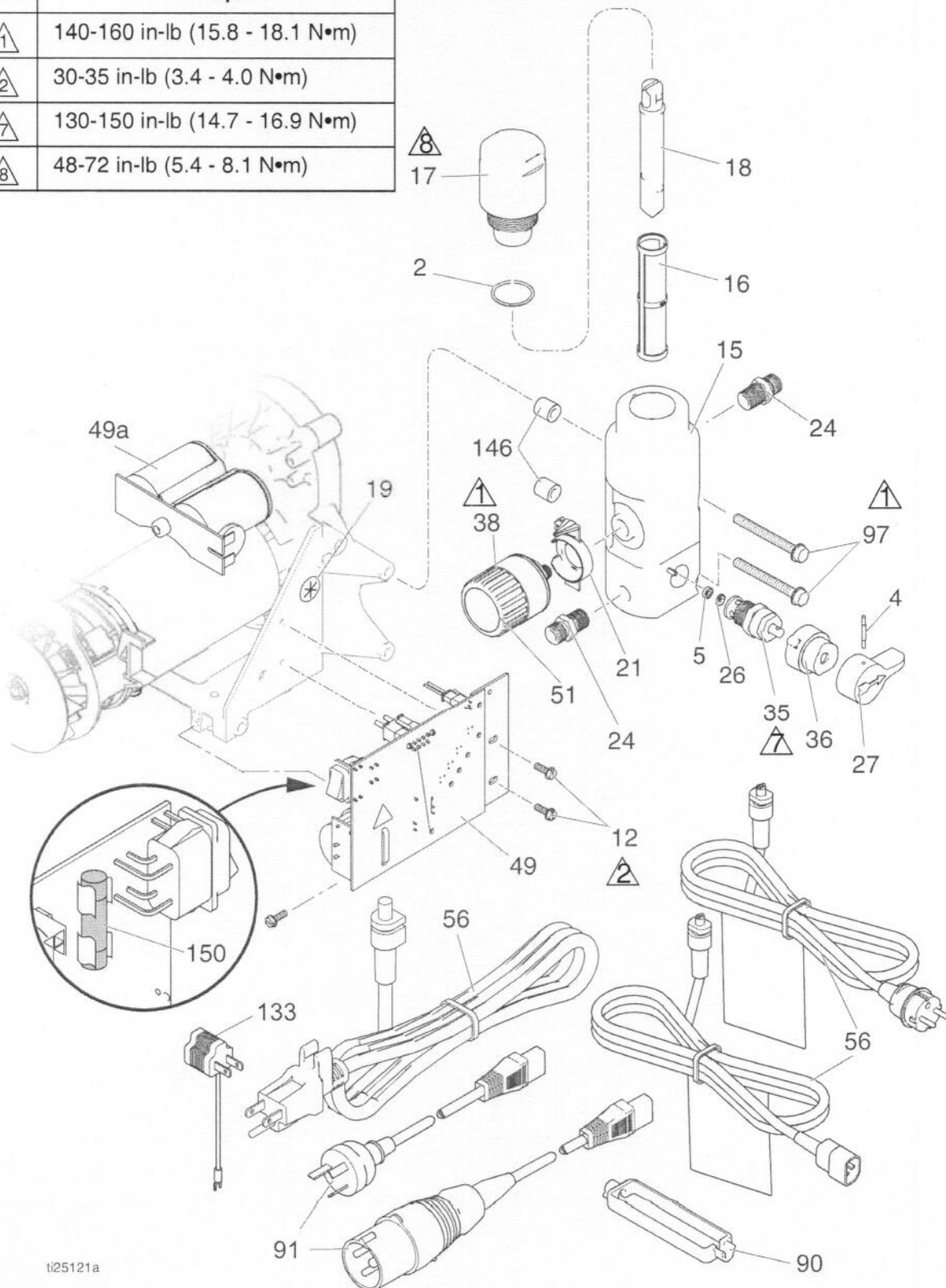
Accessories and Labels

Sprayer Model	Ref. 27 Hose, 1/4 in. x ❖ ♦ ft	Ref. 28 Gun, Spray	Ref. 52 Label, Front	Ref. 53 Label, Side	Ref. 65 Label, Warning ▲	Ref. 34 Card, Medical Alert ▲	Ref. 63 Label, Danger ▲
17A322	247339 ❖	243012	17B217	17B218	195793 &	222385 #	15K359 #
17A323	247339 ❖	289843	17B217	17B218	- - -	222385 #	16G596 \$
17C117	247339 ❖	244238	17B217	17B218	17C136 *	222385 #	17C135 *
17C310 17C313	240794 ♦	288430	17C819	17C820	195793 &	222385 #	15K359 #
17C341 17C342 17C438	240793 ❖	289843	17C860	17C861	- - -	222385 #	16G596 \$
17C343 17C344	240794 ♦	288438	17C862	17C863	- - -	222385 #	16G596 \$
17C346 17C347 17C348 17C349 17C350 17C351	240794 ♦	288438	17C853	17C854	- - -	222385 #	16G596 \$
17C384	247339 ❖	16X214	17B217	17B218		17A134 %	15H087 @
17C385	240794 ♦	288430	17C819	17C820	195792 &	17A134 %	15H086 #
17C386 17C388	240794 ♦	288427	17C819	17C820	- - -	17A134 %	15H087 @
17C389	247340 ♦	16X214	17C853	17C854	- - -	17A134 %	15H087 @
826195	826079 ♦	288430	17C821	17C822	195793 &	222385 #	15K359 #
288526 – Kit, accessory, hopper							
# – English, Spanish, French					@ – Asia/ANZ		
% – English, Chinese, Korean					\$ – Europe		
& – North America					* – English, Spanish, Portuguese		
❖ – 25 ft. (7.6m)							
♦ – 50 ft. (15.2m)							
▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.							

Control Box and Filter

Control Box and Filter

Ref.	Torque
①	140-160 in-lb (15.8 - 18.1 N•m)
②	30-35 in-lb (3.4 - 4.0 N•m)
⑦	130-150 in-lb (14.7 - 16.9 N•m)
⑧	48-72 in-lb (5.4 - 8.1 N•m)



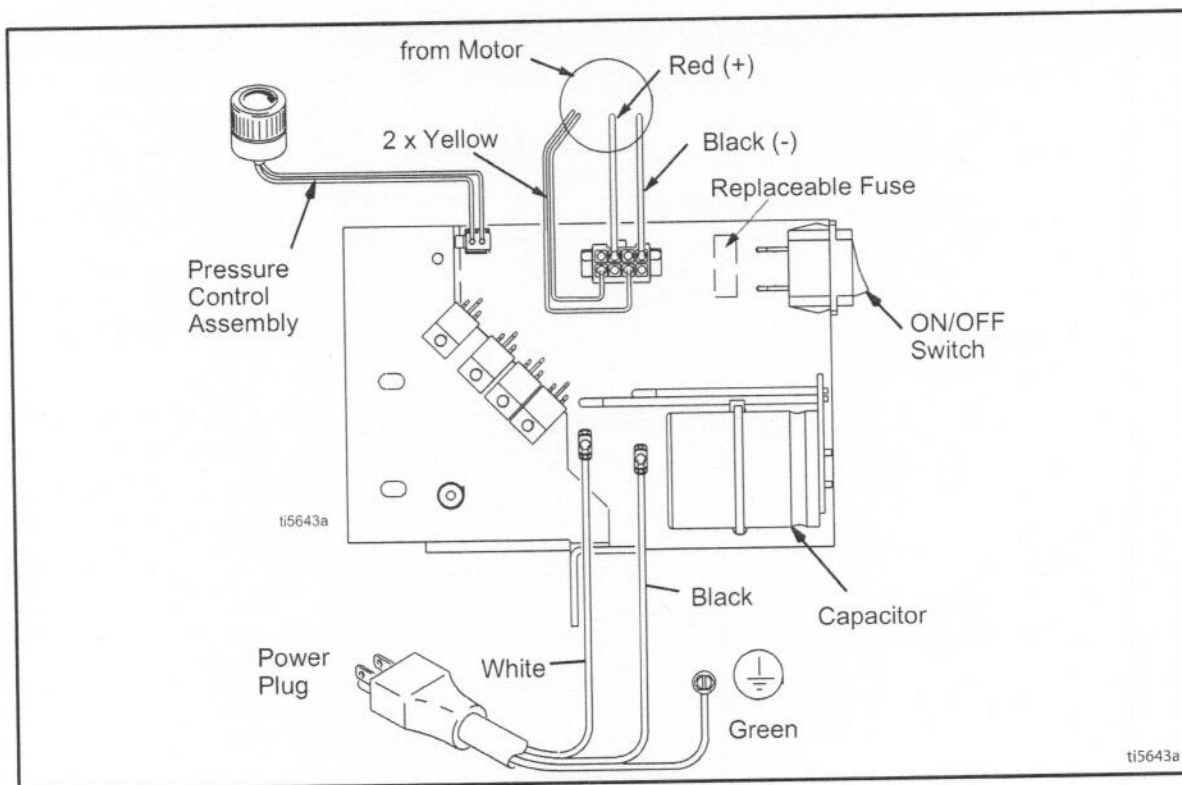
Control and Filter Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	104361	PACKING, o-ring	1	27	187625	HANDLE, valve, drain	1
4	111600	PIN, grooved	1	35	239914	VALVE, drain, <i>includes</i> 5, 26	1
5	277364	GASKET, seat, valve	1	36	224807	BASE, valve	1
12	117501	SCREW, mach, hex washer hd	3	38		KIT, control, pressure, <i>includes</i> 19, 20, 51	1
15		MANIFOLD, fluid	1	24X312	120V, models 17A322		
	17C590	Tall, no gauge, models, 17C310, 17C313, 17C385, 826195		24X313	230V, models 17A323, 17C438, 17C342, 17C389, 17C117		
	17C591	Tall, with gauge, models, 17C346, 17C347, 17C348, 17C349, 17C350, 17C351, 17C386, 17C387, 17C388		24X289	120V, models 17C310, 17C313, 17C347, 17C350, 17C385, 826195		
	17C592	Short, no gauge, model, 17C389		24X290	230V, models 17C343, 17C344, 17C346, 17C348, 17C349, 17C351, 17C384, 17C387, 17C388		
	17C593	Short with gauge, models, 17C343, 17C344		49	BOARD, control		1
	15E295	With gauge, models, 17C341		249052	120V		
		No gauge, models, 17A322, 17A323, 17C342, 17C438, 17C384, 17C117		16X295	230V <i>includes</i> 49a		
16		FILTER, fluid	1	49a	24R905	BOARD, capacitor, 230V	1
		Tall manifold		51	15A464	LABEL, control	1
	246425	30 mesh		56		CORD, power	1
	246384	60 mesh, original			15J743	US/Japan	
	246382	100 mesh			242001	Europe	
	246383	200 mesh			253370	CORD, IEC, jumper	
		Short manifold			16W745	CORD, CEE	
	243080	60 mesh, original			257805	KIT, repair, Europe	
	243081	100 mesh			253369	Europe, CEE 7/7	
17		CAP, manifold	1		253373	Multicord, Asia/ANZ	
	287902	KIT, cap, tall manifold, <i>includes</i> 18		90	195551	RETAINER, plug, adapter	
	243102	KIT, cap, short manifold, <i>includes</i> 18, 16 (60 mesh)				Multicord models	2
18		INSERT, filter	1	91		CEE 7/7 models	1
	15B071	Tall			242005	CORD SET, adapter	1
	15E288	Short				Australia	
19	115756	BUSHING, motor wire	1		253368	UK	
21	17C725	INDICATOR, control pressure	1	97	17C735	SCREW, mach, HWH	2
24	162453	NIPPLE, (1/4 npsm x 1/4 npt)	2	133	244285	ADAPTER, Japan	1
26	15E022	SEAT, valve	1	145	M70809	FITTING, barbed	1
				146	17D294	SPACER, manifold	2
				150	119277	Fuse replacement	1
					115523	GAUGE, pressure, fluid, not shown (on select models)	1
					119783	FITTING, tee, swivel (on models with gauge)	1

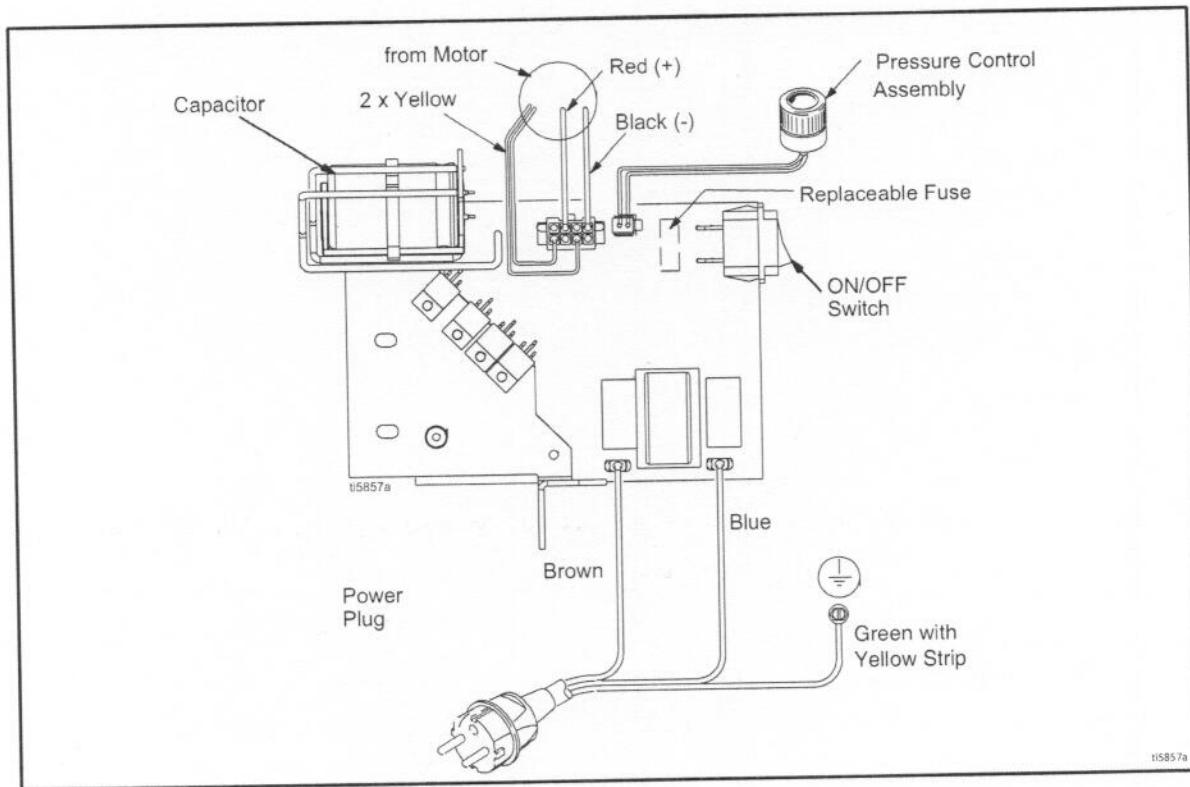
Wiring Diagrams

Wiring Diagrams

120V, US/Japan



110V, UK / 230V



Technical Specifications

Technical Specifications

190/290/390		
	US	Metric
Sprayer		
Maximum fluid working pressure	3000 psi 3300 psi	207 bar, 20.7 MPa 228 bar, 22.8 MPa
Maximum Delivery	0.50 gpm	1.9 lpm
Maximum Tip Size	0.023	0.023
Fluid Outlet npsm	1/4 in.	6.3 mm
Cycles	700 per gallon	185 per liter
Generator Minimum	3000 W	3000 W
110–120V, A, Hz	1Ø, 13, 50/60	
220–240V, A, Hz	1Ø, 8, 50/60	
Dimensions		
Height		
Stand	21 in.	53.3 cm
Lo-Boy	21 in.	53.3 cm
Hi-Boy	29.5 in. (Handle down) 39.5 in. (Handle up)	74.9 cm (Handle down) 100.3 cm (Handle up)
Length		
Stand	15 in.	38.1 cm
Lo-Boy	26 in.	66.0 cm
Hi-Boy	21 in.	53.3 cm
Width		
Stand	14 in.	35.6 cm
Lo-Boy	20.5 in.	52.1 cm
Hi-Boy	20.5 in.	52.1 cm
Weight		
Stand	43 lb.	20 kg
Lo-Boy	63 lb.	29 kg
Hi-Boy	66 lb.	30 kg
Noise** (dBa) @ 70 psi (0.48 MPa, 4.8 bar)		
Sound pressure	90 dBa	
Sound power	100 dBa	

Technical Specifications

190/290/390		
	US	Metric
Materials of Construction		
Wetted materials on all models	zinc- and nickel-plated carbon steel, nylon, stainless steel, PTFE, Acetal, leather, UHMWPE, aluminum, tungsten carbide, polyethylene, fluoroelastomer, urethane	
Notes		
<i>* Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.</i>		
<i>** Sound pressure measured 3 feet (1 meter) from equipment.</i>		
<i>Sound power measured per ISO-3744.</i>		