

ThermoLazer™ and ThermoLazer™ ProMelt™ Pavement Marking Systems

3A1321F

EN

- For professional application of thermoplastic traffic marking compound materials (reflective beads applied simultaneously with screeding). For outdoor use only (not to be operated in rain or damp conditions) -



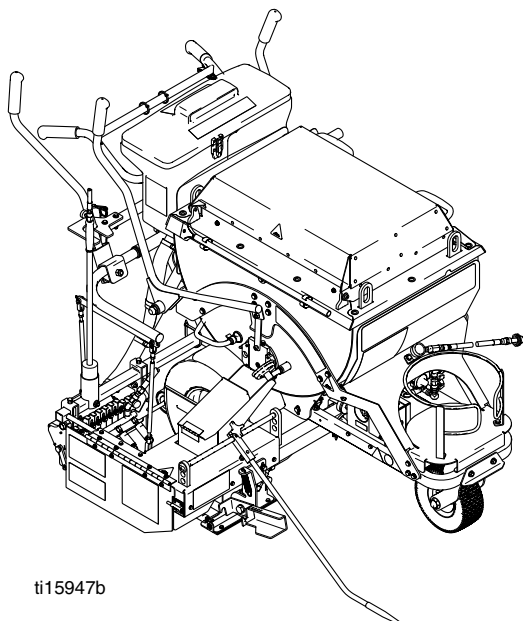
IMPORTANT SAFETY INSTRUCTIONS

Read all warnings and instructions in this manual. Save these instructions.

Related Manuals:

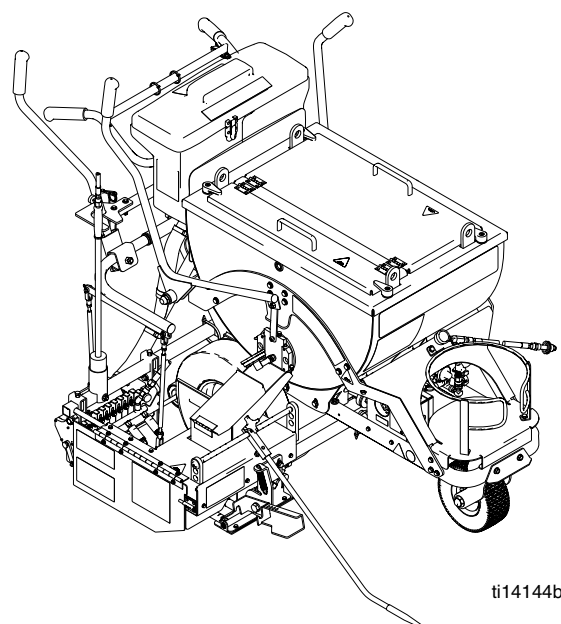
Operation	3A1319
Repair	3A1320
Double Bead Box	3A0004
SmartDie II	3A1738

ThermoLazer ProMelt



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ThermoLazer



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System Chart

Complete system consists of ThermoLazer ProMelt 24H624 and one SmartDie II™ Screed Box.

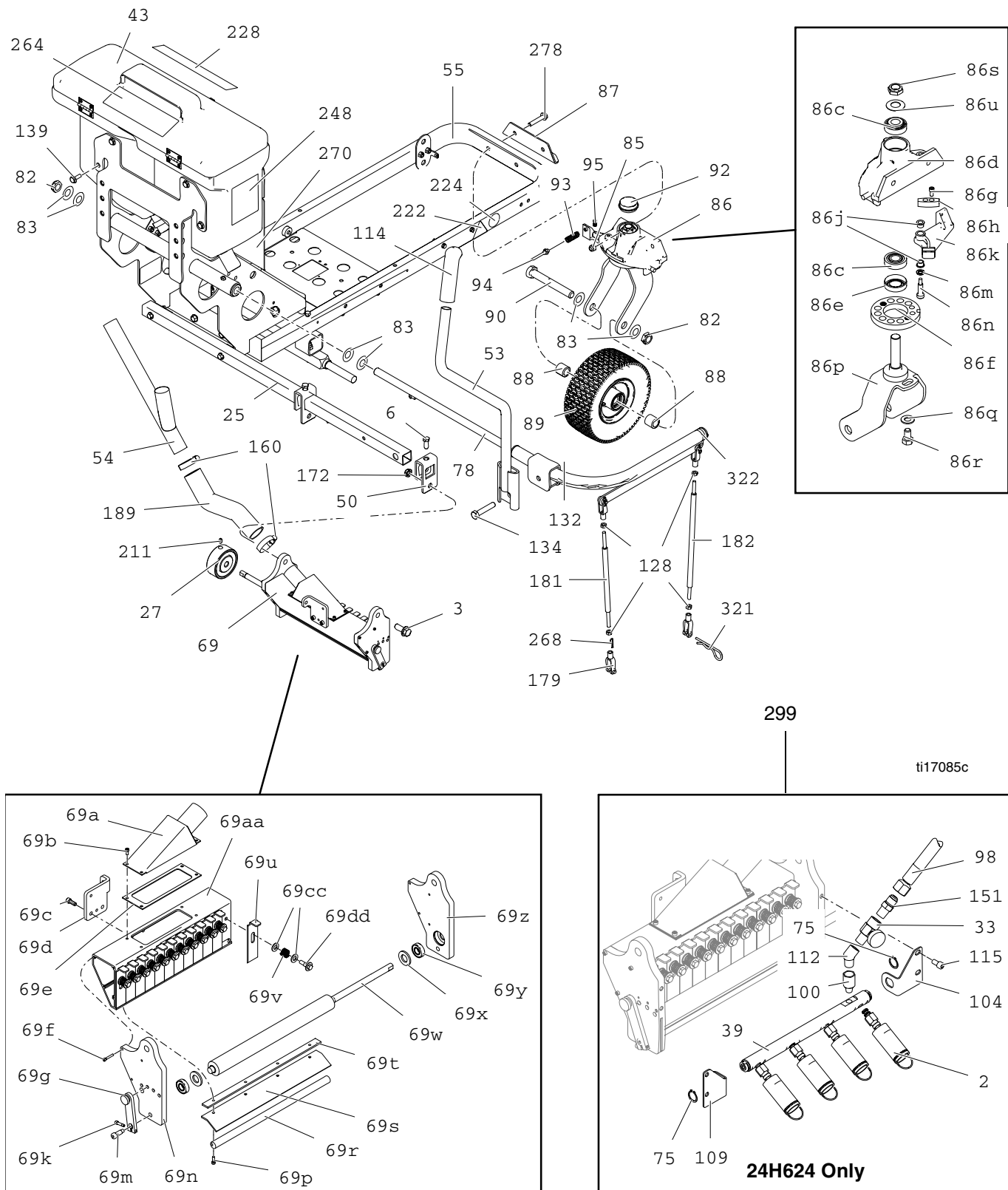
Complete System Part No.	Includes:		
	Sprayer Part No.	Smart Die II Part No.	Smart Die Description
24R761	24H624	24H431	3 in. (8 cm)
24H623	24H624	24H426	4 in. (10 cm)
24R762	24H624	24H432	5 in. (12 cm)
24R763	24H624	24H427	6 in. (15 cm)
24R764	24H624	24H433	7 in. (18 cm)
24R765	24H624	24H428	8 in. (20 cm)
24R766	24H624	24H434	9 in. (22.5 cm)
24R767	24H624	24H429	10 in. (25 cm)
24R768	24H624	24H430	12 in. (30 cm)
24R769	24H624	24H437	3-3-3 in. (8-8-8 cm)
24R770	24H624	24H435	4-3-4 in. (10-8-10 cm)
24R771	24H624	24H436	4-4-4 in. (10-10-10 cm)
24R772	24H624	24J785	4-6-4 in. (10-15-10 cm)

**Smart Dies are available for sale individually.*

**24C528 Kit, Double Bead Box*

Notes

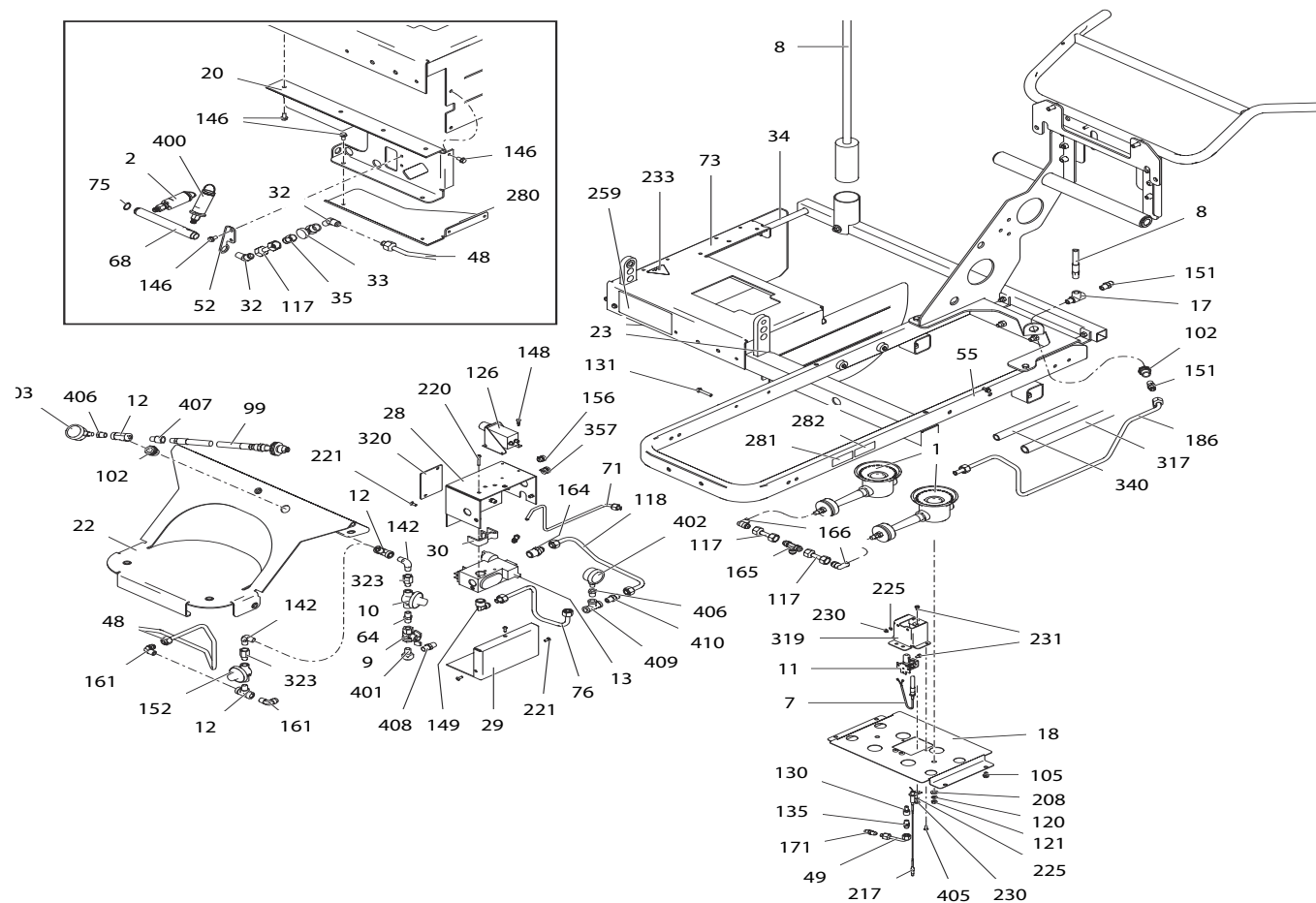
Parts - ProMelt (Model 24H624)



Parts List - ProMelt (Model 24H624)

Ref.	Part	Description	Qty	Ref.	Part	Description	Qty
2	24J570	KIT, repair, torch head, die	7	86q	113962	WASHER, hardened, SAE	1
3	111195	SCREW, cap, flng HD	2	86r	114681	SCREW, cap, hex HD	1
6	100101	SCREW, cap, hex HD	2	86s	112405	NUT, lock	1
25	15X377	TUBE, support, beadbox	1	86u	112825	SPRING, belleville	2
27	15X765	WHEEL, drive, bead	1	87	240991	BRACKET, caster, front	1
33	125064	VALVE, needle, gas, 1/4 npt	2	88	193658	NUT, seal	2
39	24J578	KIT, repair, manifold, rear	1	89	114549	WHEEL, pneumatic	1
43	24E483	KIT, replacement, bead hopper (includes 228, 248, 264)	1	90	113471	SCREW, cap, hex HD	1
50	257399	CLAMP, beadbox	2	92	114648	CAP, dust	3
53	257455	HANDLE, lift, die/bead dispenser	1	93	114682	SPRING, compression	1
54	257617	CONNECTOR, bead box hose	1	94	241445	KIT, cable	1
55	24J586	KIT, repair, frame, (includes 222, 224)	1	95	114802	STOP, wire	1
69	24R144	BOX, bead, 12", with 1" gages	1	98	16H129	HOSE, torch, rear	1
69a	257378	MANIFOLD, assembly	1	100	159840	ADAPTER	1
69b	112788	SCREW, cap, sockethead	4	104	16H192	BRACKET, support, manifold, rear, left	1
69c	121112	SCREW, cap, sockethead	2	109	16H107	BRACKET, support, manifold, rear, right	1
69d	16U614	BRACKET, beadbox, linkage	1	112	113444	FITTING, elbow street, 45 DX 1/4 npt	1
69e	16A243	GASKET, foam	1	114	114659	GRIP, handle	5
69f	110631	SCREW, sockethead	8	115	101550	SCREW, cap, sch	4
69g	24J866	HANDLE, adjuster, bead	1	128	100187	NUT	4
69k	295709	SCREW, cap, sockethead	1	132	101580	NUT, lock	1
69m	123481	SCREW, shoulder, screw, 1/4-20	2	134	114766	BOLT, cap hex head	1
69n	16H292	BRACKET, right, bead dispenser	1	139	111192	SCREW, cap flang HD	25
69p	112310	SCREW, cap, sch	4	151	118484	FITTING, connector	3
69r	15X281	ADJUSTER	1	160	116789	CLAMP, hose	6
69s	15X274	GATE, poly	1	172	119547	NUT, hex, lock, nylon, thin	2
69t	15X275	GATE, bar	1	179	15V415	CLEVIS	4
69u	16U612	PLATE, slide 1"	12	181	16A041	SHAFT, threaded	1
69v	114708	SPRING, compression	12	182	16H291	SHAFT, threaded	1
69w	24C672	SHAFT, bead assembly kit	1	189	16A100	HOSE, bead	3
69x	114797	GASKET	2	211	100664	SCREW, set, sch	1
69y	123304	BEARING, double sealed	2	222▲	16A274	LABEL, ISO explosion	1
69z	16H293	BRACKET, left, bead dispenser	1	224	15Y963	LABEL, kettle burners lighting	1
69aa	16U613	HOUSING, dispenser 12", 12 holes	1	228▲	16A276	LABEL, ISO symbols warn & instru	1
69cc	104034	WASHER, plain	24	248	16E335	LABEL, brand, Graco	2
69dd	119872	SCREW, shoulder	12	264▲	15Y966	LABEL, fire and explosion	1
75	113958	RING, retaining, external	3	268	120592	PIN, cotter, hairpin	3
78	15W873	ARM, die/bead dispenser	1	270	16F660	SHIELD, heat, rear, ProMelt	1
82	112405	NUT, lock	6	278	114982	SCREW, cap, flng HD	6
83	112825	SPRING, belleville	10	299	24H619	KIT, accessory, rear torch (includes 2, 98, 151, 33, 115, 104, 70, 60, 67, 109, 75, 39, 100, 112)	1
85	101566	NUT, lock	7	321	123385	PIN, cotter, hairpin	2
86	24H246	CASTER, ProMelt, blue	1	322	112853	PLUG, tubing	1
86c	113485	BEARING, cup/cone	2	▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.			
86d	15G952	CASTER, machine	1				
86e	113484	SEAL, grease	1				
86f	198606	DISK, adjuster	1				
86g	110754	SCREW, cap, sch	2				
86h	193662	STOP, wedge	1				
86j	114548	BEARING, bronze	2				
86k	193528	ARM, detent	1				
86m	15J603	SPACER, round, .625 in.	1				
86n	120476	BOLT, shoulder, 5/16	1				
86p	240942	SHAFT, fork	1				

Parts - ProMelt (Model 24H624)

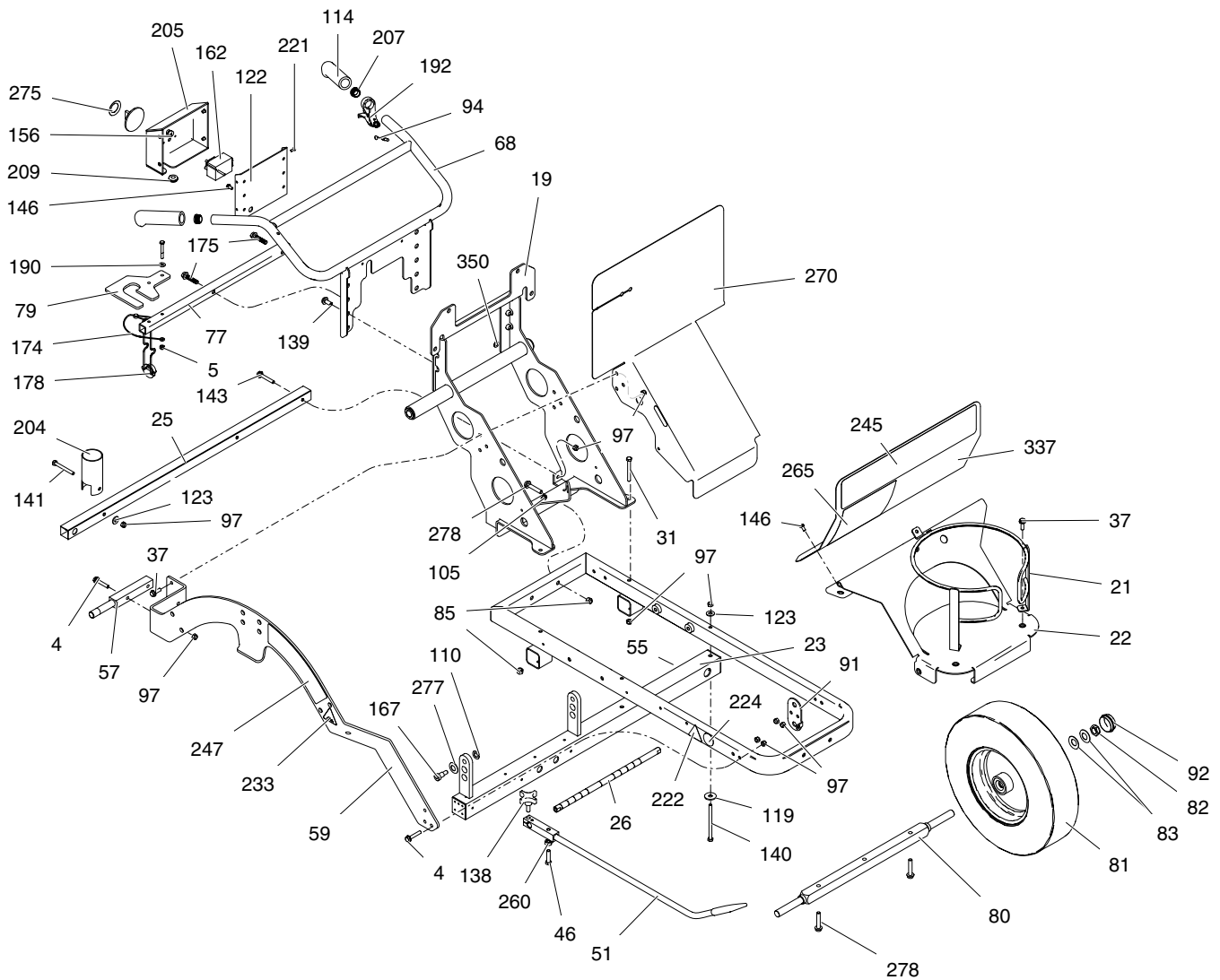


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Parts List - ProMelt (Model 24H624)

Ref.	Part	Description	Qty	Ref.	Part	Description	Qty
1	24C394	KIT, replacement, burner	2	161	100840	FITTING, flared, 1/4 pipe, 90 elbow	2
2	24J570	KIT, repair, torch head, die (includes 67)	7	164	123157	FITTING, flared, 1/2 pipe, adapter	1
7	122944	FITTING, Thermopile	1	165	123158	FITTING, flared, 3/8 tube, tee	1
8	125032	TOOL, torch	1	166	125241	FITTING, flared, 1/8 npt x 90 elbow	2
9	122946	VALVE, shut off	1	171	123160	FITTING, flared, 1/4 tube, coupling	1
10**	24L883	KIT, REGULATOR, LP gas, 5 psi	1	186	16F282	TUBE, formed, gas	1
11	24J574	KIT, repair, pilot, (includes 130)	1	208	110755	WASHER, plain	2
12	108638	TEE, male	2	217	127255	ELECTRODE	1
13	16F638	KIT, repair, valve, gas, (includes 71, 149, 164)	1	220	111235	SCREW, mach, pnh	3
17	106228	FITTING, tee, street	1	221	116610	SCREW, mach, phil, pan, #10	9
18	16J484	PLATE, mount, burner	1	225	100020	WASHER, lock	3
20	16H105	BRACKET, support, burner, front	1	230	100179	NUT, hex mscr	3
22	16F641	BRACKET, support, tank, propane	1	231	110637	SCREW, mach, panhead	6
23	15W735	ARM, chamber, die	1	233▲	16D646	LABEL, ISO, hot surfaces	5
28	24F695	ENCLOSURE, valve	1	259	16J470	LABEL, front burner lighting	1
29	16F642	COVER, enclosure, valve box	1	280	16J865	PLATE, skid, torch, protector	1
30	16A708	BLOCK, spacer, gas valve	1	281	24J403	LABEL, regulator	1
32	118482	FITTING, elbow, 45	2	282	24J404	LABEL, regulator	1
33	125064	VALVE, needle, gas, 1/4 npt	2	317	24J589	KIT, repair, sleeve, heat, 1/4	1
34	15Y339	ROD, support, die	1	319	16W410	BRACKET	1
35	125063	FITTING, flared, 1/4 pipe, adapter	1	320	16C333	DOOR	1
48	16H128	TUBE, formed, gas	1	323	116393	Fitting, Straight 1/4 NPT	1
49	16J687	TUBE, formed, gas, pilot	1	340	24J590	KIT, repair, sleeve, heat, 3/8	1
52	16H106	BRACKET, support, manifold, front	1	357	120975	BUSHING, strain relief	1
55	24J586	KIT, repair, frame (includes 281, 282)	1	400	24T765	KIT, repair, torch up burner (includes 67)	1
64	156971	FITTING, nipple, short	1	401+	100840	FITTING, elbow, street	1
67	16H104	INDICATOR, burner	7	402+	127257	GAUGE, 300 psi	1
68	24J577	KIT, repair, manifold, front	1	403+	127256	GAUGE, 15 psi	1
71	24J572	KIT, repair, pilot, tube	1	404	24T750	KIT, repair, gauges	1
73	24J587	KIT, repair, shroud, die (includes 233, 259)	1	405	114984	SCREW, tapping, phillips pan hd	2
75	113958	RING, retaining, external	3	406+	100030	BUSHING	1
76	16J486	TUBE, formed, gas	1	407+	16W473	FITTING, filter	1
99	123086	ADAPTER, polswivel with handwheel	1	408+	156971	FITTING, nipple, short	1
102	104641	FITTING, bulkhead	2	409+	104984	FITTING, tee, pipe	1
105	112798	SCREW, thread forming, hex HD	14	410+	118484	FITTING, connector	1
117	16A061	TUBE, formed, gas	3	▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.			
118	16W412	TUBE, formed, gas	1				
120	100016	WASHER, lock	2	** Includes 323 Fiting, Straight 1/4 NPT			
121	100015	NUT, hex mscr	4	+ Included in kit 24T750			
126	123085	CONTROL, igniter, pulse	1				
130	16W638	FITTING, inlet, pilot	1				
131	114104	SCREW, mach, hex wash HD	10				
135	123162	FITTING, flared, 1/8 pipe, adapter	1				
142	110249	ADAPTER, male elbow 90 degr	2				
146	107257	SCREW, thd forming	40				
148	122667	SCREW, drill, hex washer head	3				
149	118458	FITTING, elbow, male	1				
151	118484	FITTING, connector	3				
152**	24L884	KIT, REGULATOR, LP gas, 20 psi	1				
156	119545	BUSHING, strain, relief	2				

Parts - ProMelt (Model 24H624)

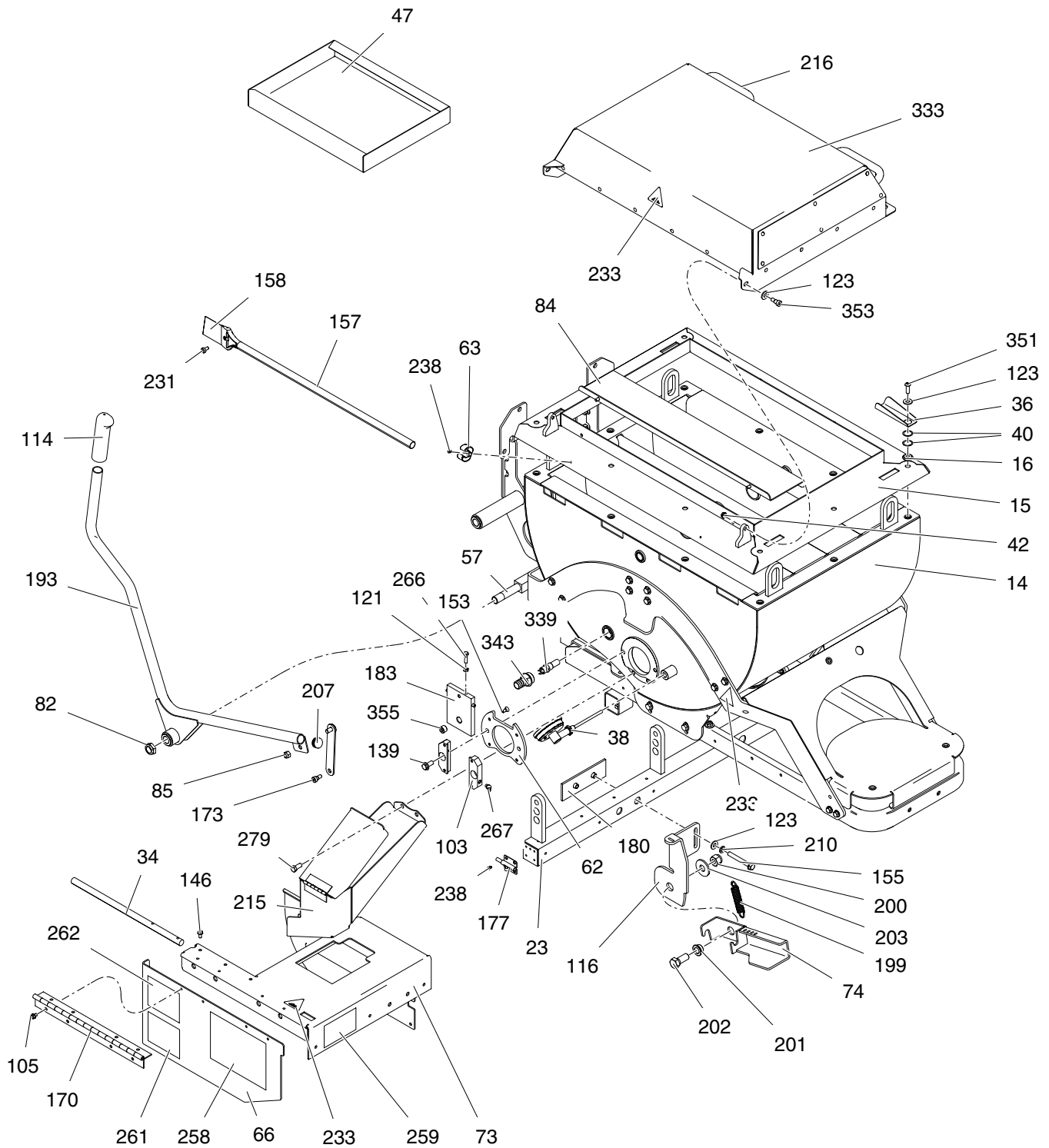


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Parts List - ProMelt (Model 24H624)

Ref.	Part	Description	Qty	Ref.	Part	Description	Qty
4	112960	SCREW, cap, flng HD	10	222▲	16A274	LABEL, ISO, explosion	1
5	102040	NUT, lock, hex	2	224	15Y963	LABEL, kettle burners, lighting	1
19	24F693	BRACKET, handle, mount	1	233▲	16D646	LABEL, ISO, hot surface	5
21	24F694	HOLDER, tank, propane	1	245	16H076	LABEL, brand, ThermoLazer	1
22	16F641	BRACKET, support, tank, propane	1			ProMelt front	
23	15W735	ARM, chamber, die	1	247	16H075	LABEL, brand, ThermoLazer	1
25	15X377	TUBE, support, beadbox	1			ProMelt right	
26	16A481	BAR, mount, indicator, line	1	260	100131	NUT, full hex	1
31	110385	SCREW, cap, hex HD (5/16x3)	2	265	15Y964	LABEL, kettle lighting instruction	1
37	112586	SCREW, cap, hex HD	14	270	16F660	SHIELD, heat, rear, Promelt	1
46	102637	SCREW, cap	1	275	16A873	LABEL, temperature control F & C	1
51	24C232	INDICATOR, line, thermolazer	1	277	119563	WASHER, belleville	1
55	24J586	KIT, repair, frame (includes 222, 224)	1	278	114982	SCREW, cap, flng HD	6
57	15W443	SHAFT, pivot, agitator	2	337	24J576	KIT, repair, heat shield, front	1
59	24J582	KIT, repair, mount, ProMelt, right (includes 233, 247)	1			(includes 245, 265)	
68	15W992	BAR, handle	1	350	124655	GROMMET, high temp	1
77	15X286	TUBE, lock	1	▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.			
79	15X287	BRACKET, lock	1				
80	193405	AXLE	1				
81	111020	WHEEL, pneumatic	2				
82	112405	NUT, lock	6				
83	112825	SPRING, belleville	10				
85	101566	NUT, lock	7				
91	15F910	BRACKET, cable	1				
92	114648	CAP, dust	3				
94	241445	KIT, repair, cable	1				
97	111040	NUT, lock, insert, nylock, 5/16	23				
105	112798	SCREW	14				
110	195134	SPACER, ball, guide	2				
114	114659	GRIP, handle	5				
119	108851	WASHER, plain	2				
122	15X995	COVER, control box	1				
123	100023	WASHER, flat	17				
138	111145	KNOB, pronged	1				
139	111192	SCREW, cap flang HD	25				
140	110384	SCREW, cap, hex HD	2				
141	113664	SCREW, cap, hex HD	1				
143	114653	SCREW, cap, flange head	2				
146	107257	SCREW, thd forming	37				
156	119545	BUSHING, strain, relief	2				
162	24J569	KIT, repair, temp, control ProMelt (includes 275)	1				
167	123199	SCREW, shoulder, socket head	3				
174	121458	TIE, lanyard	1				
175	117779	SCREW, hex head, flanged	6				
178	123186	TOOL, spark lighter	1				
190	170772	WASHER, plain	2				
192	194310	LEVER, actuator	1				
204	16H582	TUBE, torch holder	1				
205	15X993	BOX, control	1				
207	120151	RETAINER, caplug	3				
209	801012	GROMMET	1				
221	116610	SCREW, mach, phil, pan, #10	9				

Parts - ProMelt (Model 24H624)



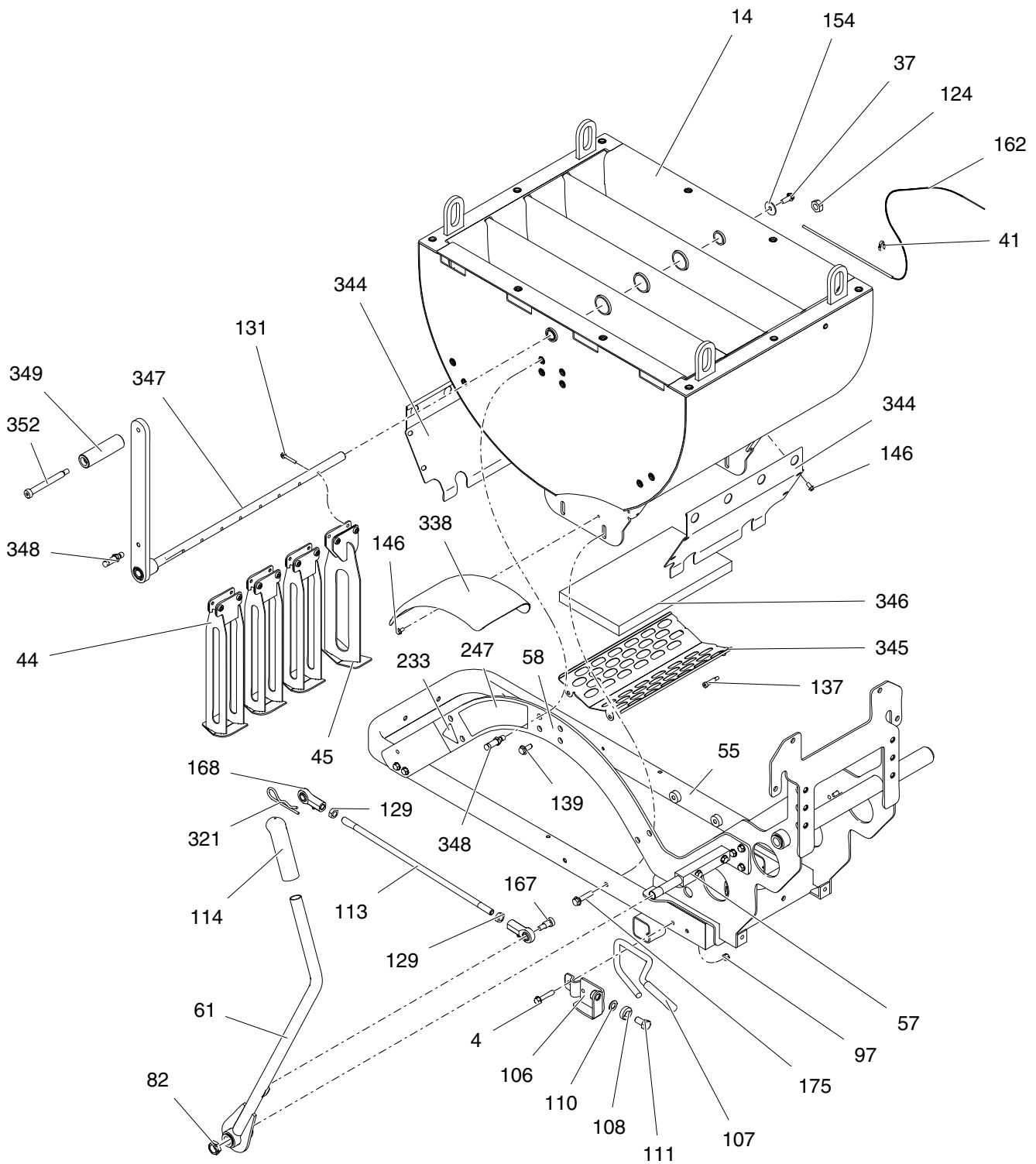
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Parts List - ProMelt (Model 24H624)

Ref.	Part	Description	Qty	Ref.	Part	Description	Qty
14	24J579	KIT, repair, kettle, ProMelt	1	261	16J468	LABEL, torch lighting instructions	1
15	24F692	COVER, kettle, ProMelt	1	262	16J469	LABEL, rear screed burner	1
16	16H285	SPACER, latch, ProMelt	2	266	100021	SCREW, cap hex HD	1
23	15W735	ARM, chamber, die	1	267	100847	FITTING, lubrication	2
34	15Y339	ROD, support, die	1	279	100680	SCREW, cap, hex HD	2
36	16F643	LATCH, cover, Promelt	2	333	24J867	KIT, repair, lid (includes 216, 233, 354)	1
38	15Y679	THERMOMETER, temp gauge	1	339	124610	SENSOR, high temp, control	1
40	116038	WASHER, wave spring	4	343	16F655	PLUG, thermowell, ProMelt	1
42	115942	NUT, hex, flange head	2	351	125112	SCREW, cap, btn HD, 5/16 X 1	10
47	16F697	SCREEN, inlet, ProMelt	1	353	108859	SCREW, shoulder, sch (24H624 only)	2
57	15W443	SHAFT, pivot, agitator	2	355	101754	PLUG, pipe	1
62	16A065	FLANGE, mount, gate valve	1	365	24J573	KIT, repair, lid, Promelt (includes 63, 238, 84, 42, 15, 16, 40, 36, 123, 351, 333, 353, 123, 146)	1
63	125270	RETAINER, clip	2				
66	24J588	KIT, shroud, door, die (includes 258, 261, 262)	1				
73	24J587	KIT, shroud, die (includes 233, 259)	1				
74	15W614	HANDLE, actuator	1				
82	112405	NUT, lock	5				
84	16H286	PLATE, filler, kettle	1				
85	101566	NUT, lock	7				
103	16A066	PLATE, guide, gate valve	2				
105	112798	SCREW, thread forming, hex HD	12				
114	114659	GRIP, handle	5				
116	15W737	BRACKET, tension, die	1				
121	100015	NUT, hex mscr	4				
123	100023	WASHER, flat	17				
139	111192	SCREW, cap flang HD	25				
146	107257	SCREW, thd forming	37				
153	123164	SCREW, sockethead, flat	4				
154	120659	WASHER, flat	1				
155	116935	SCREW, cap, flnghd	2				
157	24J179	KIT, accessory, scraper, long (includes 158, 231)	1				
158	24J356	BLADE, scraper (5 pk)	1				
170	123154	HINGE, access door	1				
173	121256	SCREW, shoulder, skt HD	1				
177	123099	LOCK, slide barrel	1				
180	15Y949	PLATE, back support	1				
183	24C105	GATE, valve, finished	1				
193	24B811	HANDLE, gate valve	1				
199	123206	SPRING, extension	1				
200	101712	NUT, lock	1				
201	123209	BEARING, flanged	1				
202	123208	SCREW, cap, hex head	1				
203	115028	WASHER, flat	1				
207	120151	RETAINER, caplug	3				
210	100133	WASHER, lock, 3/8	2				
215	24J084	FUNNEL, complete	1				
216	16F727	HANDLE, cover	2				
231	110637	SCREW, machine, panhead	6				
233▲	16D646	LABEL, ISO, hot surface	5				
238	123035	RIVET, blind	6				
258	16H841	LABEL, SmartDie II, instructions	1				
259	16J470	LABEL, front burner lighting instructions	1				

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

Parts - ProMelt (Model 24H624)



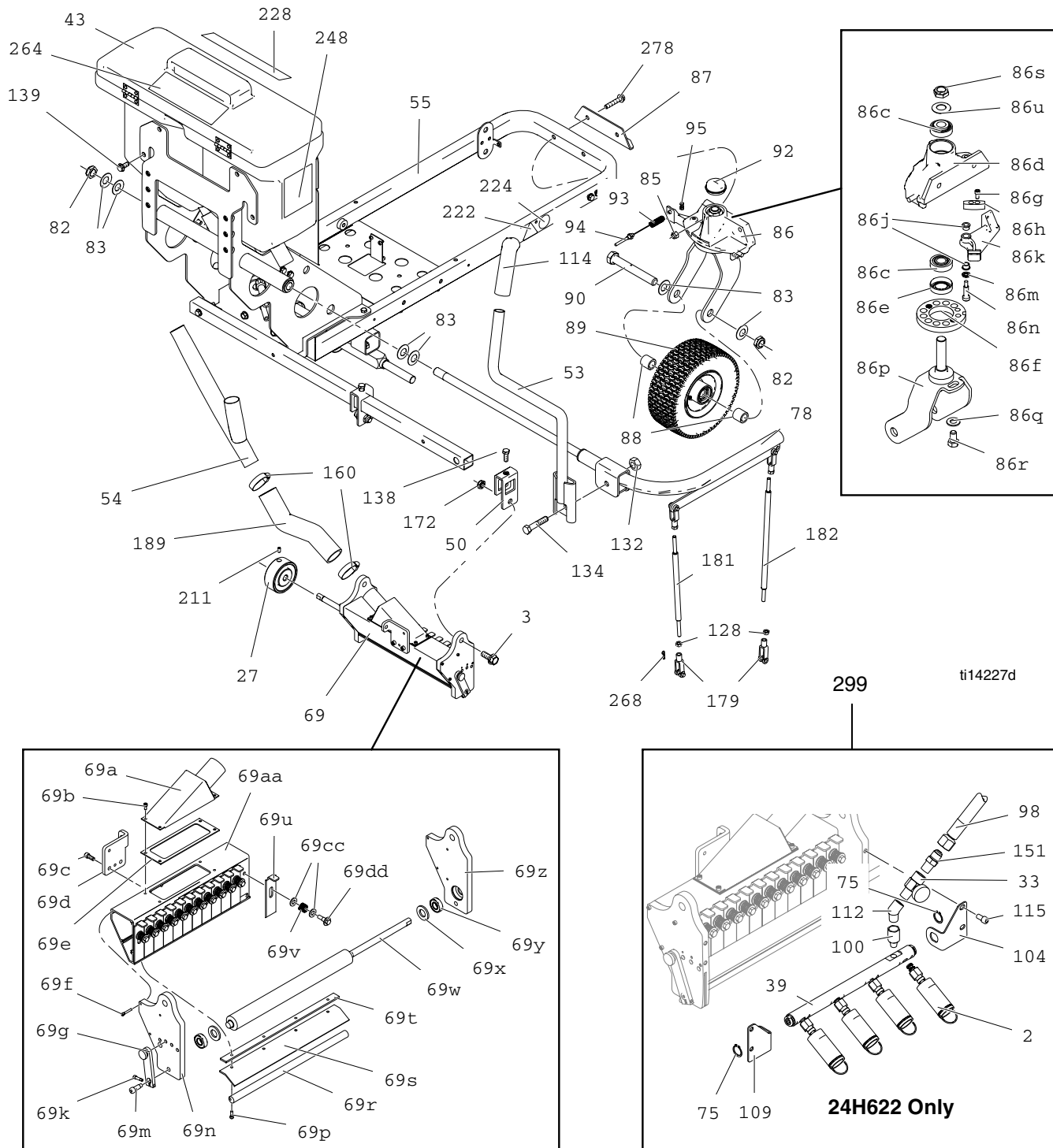
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Parts List - ProMelt (Model 24H624)

Ref.	Part	Description	Qty
4	112960	SCREW, cap, flng HD	10
14	24J579	KIT, repair, kettle, ProMelt (includes 344, 56, 345, 346, 145, 146, 137)	1
37	112586	SCREW, cap, hex HD	14
41	16C018	CLIP, holder, wire	1
44	24F696	AGITATOR, ProMelt, wide	3
45	24F697	AGITATOR, ProMelt, narrow	1
55	24J586	KIT, repair, frame	1
57	15W443	SHAFT, pivot, agitator	2
58	24J583	KIT, repair, mount, ProMelt, left (includes 233, 247)	1
61	15W447	AGITATOR, arm	1
82	112405	NUT, lock	5
97	111040	NUT, lock, insert, nylock, 5/16	23
106	198891	BRACKET	1
107	198930	ROD, brake	1
108	198931	BEARING	1
110	195134	SPACER, ball, guide	2
111	113961	SCREW, cap, hex HD	1
113	16F729	ROD, threaded, ProMelt	1
114	114659	GRIP, handle	5
124	100681	NUT, jam, hex	1
129	100111	NUT	2
131	114104	SCREW, mach, hex wash HD	10
137	111045	SCREW, shoulder	4
139	111192	SCREW, cap flang HD	25
146	107257	SCREW, thd forming	37
154	120659	WASHER, falt	1
162	24J569	KIT, repair, temperature control, ProMelt (includes 41, 124)	1
167	123199	SCREW, shoulder, socket head	3
168	123200	ROD, ball joint, end	2
175	117779	SCREW, hex head, flanged	6
233▲	16D646	LABEL, ISO, hot surface	5
247	16H074	LABEL, ThermoLazer ProMelt	1
321	123385	PIN, cotter, hairpin	2
338	16H584	FENDER, ProMelt	2
344	16F656	SHIELD, kettle, bottom, ProMelt	2
345	24J571	KIT, repair, baffle, kettle (includes 346, 137)	1
346	16F658	BAFFLE, heat, insulated, ProMelt	1
347	24F699	SHAFT, agitator, ProMelt	1
348	16F728	FITTING, arm mount agitator	2
349	16F645	HANDLE, agitator, ProMelt	1
352	124628	SCREW, shoulder, sch	1

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

Parts - ThermoLazer (Models 24H622, 24H625)

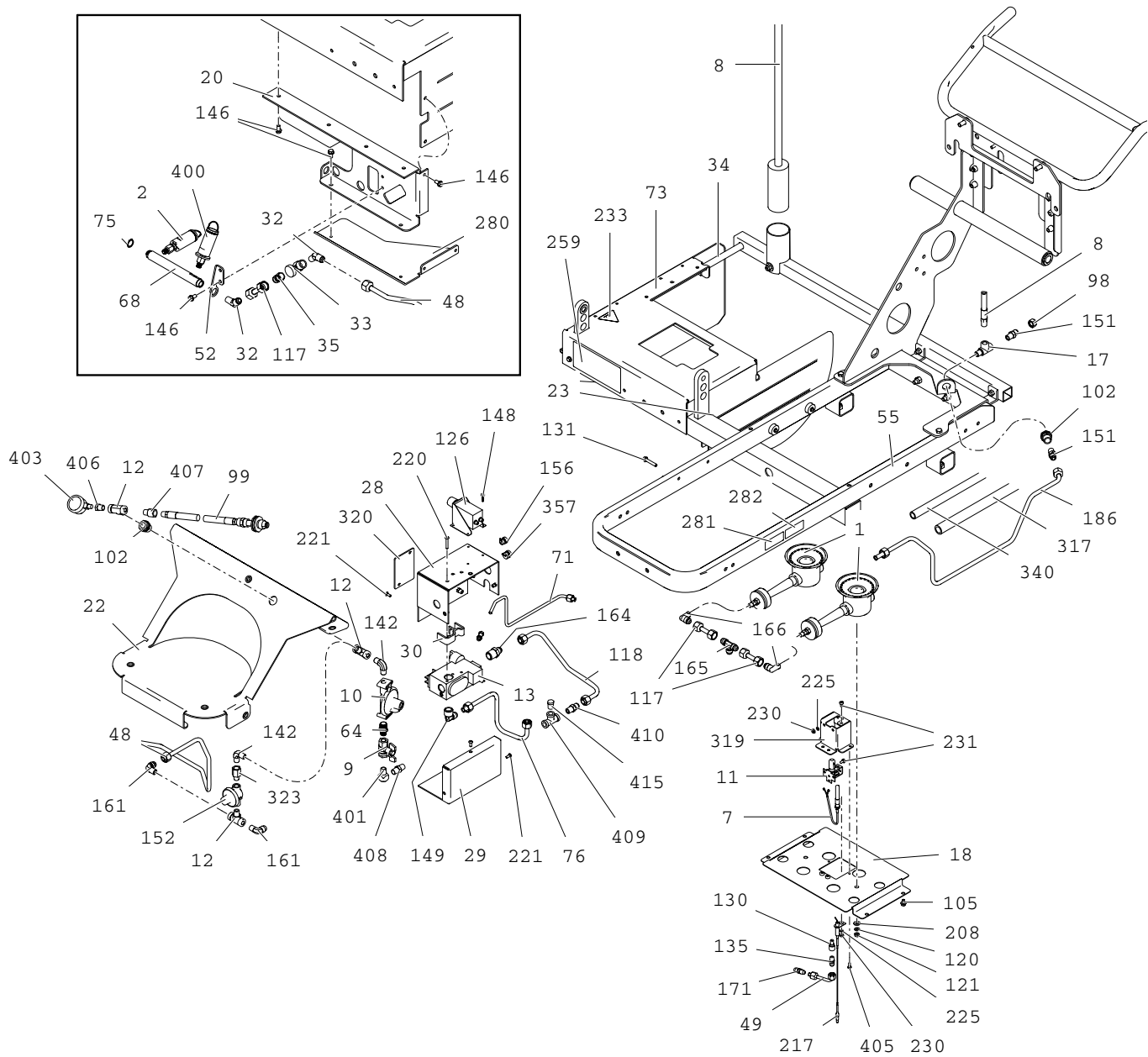


Parts List - ThermoLazer (Models 24H622, 24H625)

Ref.	Part	Description	Qty	Ref.	Part	Description	Qty
2	24J570	KIT, repair, torch head, die (includes 67) 24H622 24H625	7 3	86p	240942	SHAFT, fork	1
3	111195	SCREW, cap, flng HD	2	86q	113962	WASHER, hardened, SAE	1
27	15X765	WHEEL, drive, bead	1	86r	114681	SCREW, cap, hex HD	1
33	125064	VALVE, needle, gas, 1/4 npt	2	86s	112405	NUT, lock	1
39	24J578	KIT, repair, manifold, rear	1	86u	112825	SPRING, belleville	2
43	24E483	KIT, replacement, bead hopper (includes 228, 248, 264)	1	87	240991	BRACKET, caster, front	1
50	257399	CLAMP, beadbox	2	88	193658	NUT, seal	2
53	257455	HANDLE, lift, die/bead dispenser	1	89	114549	WHEEL, pneumatic	1
54	257617	CONNECTOR, bead box hose	1	90	113471	SCREW, cap, hex HD	1
55	24J586	KIT, repair, frame (includes 222, 224)	1	92	114648	CAP, dust	3
69	24R144	BOX, 12", with 1" gages	1	93	114682	SPRING, compression	1
69a	257378	MANIFOLD, assembly	1	94	241445	KIT, cable	1
69b	112788	SCREW, cap, sockethead	4	95	114802	STOP, wire	1
69c	121112	SCREW, cap, sockethead	2	98	16H129	HOSE, torch, rear	1
69d	16U614	BRACKET, beadbox, linkage	1	100	159840	ADAPTER	1
69e	16A243	GASKET, foam	1	104	16H192	BRACKET, support, manifold, rear, left	1
69f	110631	SCREW, sockethead	8	109	16H107	BRACKET, support, manifold, rear, right	1
69g	24J866	HANDLE, adjuster, bead	1	112	113444	FITTING, elbow street, 45dx 1/4 npt	1
69k	295709	SCREW, cap, sockethead	1	114	114659	GRIP, handle	5
69m	123481	SCREW, shoulder, screw, 1/4-20	2	115	101550	SCREW, cap, sch	4
69n	16H292	BRACKET, right, bead dispenser	1	128	100187	NUT	4
69p	112310	SCREW, cap, sch	4	132	101580	NUT, lock	1
69r	15X281	ADJUSTER	1	134	114766	BOLT, cap hex head	1
69s	15X274	GATE, poly	1	138	111145	KNOB, pronged	1
69t	15X275	GATE, bar	1	139	111192	SCREW, cap flang HD	26
69u	16U612	PLATE, slide, 1"	12	151	118484	FITTING, connector	3
69v	114708	SPRING, compression	12	160	116789	CLAMP, hose	6
69w	24C672	SHAFT, bead assembly kit	1	172	119547	NUT, hex, lock, nylon, thin	2
69x	114797	GASKET	2	179	15V415	CLEVIS	4
69y	123304	BEARING, double sealed	2	181	16A041	SHAFT, threaded	1
69z	16H293	BRACKET, left, bead dispenser	1	182	16H291	SHAFT, threaded	1
69aa	16U613	HOUSING, dispenser, 12", 12 holes	1	189	16A100	HOSE, bead	3
69cc	104034	WASHER, plain	24	211	100664	SCREW, set, sch	1
69dd	119872	SCREW, shoulder	12	222▲	16A274	LABEL, ISO, explosion	1
75	113958	RING, retaining, external	3	224	15Y963	LABEL kettle burners, lighting	1
78	15W873	ARM, die/bead dispenser	1	228▲	16A276	LABEL, ISO symbols warn & instru	1
82	112405	NUT, lock	6	248	16E335	LABEL, brand, Graco	2
83	112825	SPRING, belleville	10	264▲	15Y966	LABEL, fire and explosion	1
85	101566	NUT, lock	12	268	120592	PIN, cotter, hairpin	3
86	24H246	CASTER, promelt, blue	1	270	16F660	SHIELD, heat, rear, Promelt	1
86c	113485	BEARING, cup/cone	2	278	114982	SCREW, cap, flng HD	11
86d	15G952	CASTER, machine	1	299	24H619	KIT, accessory, rear torch (includes 2, 98, 151, 33, 115, 104, 70, 60, 67, 109, 75, 39, 100, 112)	1
86e	113484	SEAL, grease	1				
86f	198606	DISK, adjuster	1				
86g	110754	SCREW, cap, sch	2				
86h	193662	STOP, wedge	1				
86j	114548	BEARING, bronze	2				
86k	193528	ARM, detent	1				
86m	15J603	SPACER, round, .625 in.	1				
86n	120476	BOLT, shoulder, 5/16	1				

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

Parts - ThermoLazer (Models 24H622, 24H625)



ti14228d

Parts List - ThermoLazer (Models 24H622, 24H625)

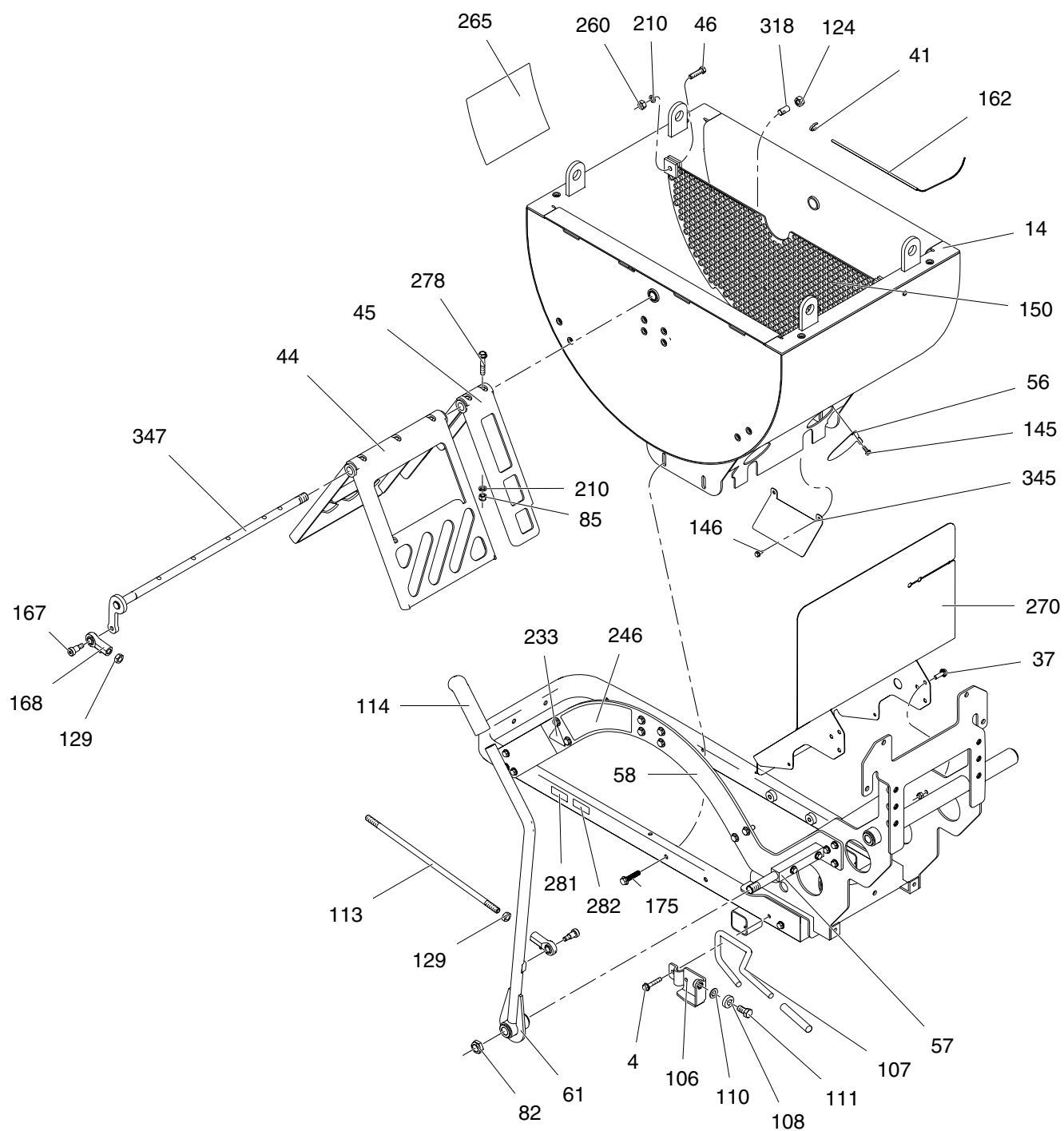
Ref.	Part	Description	Qty	Ref.	Part	Description	Qty
1	24C394	KIT, replacement, burner	2	148	122667	SCREW, drill, hex washer head	3
2	24J570	KIT, repair, torch head, die (includes 67) 24H622 24H625	7	149	118458	FITTING, elbow, male	1
7	122944	FITTING, Thermopile	3	151	118484	FITTING, connector	3
8	125032	TOOL, torch	1	152**	24L884	KIT, REGULATOR, LP gas, 20 psi	1
9	122946	VALVE, shut off	1	156	119545	BUSHING, strain, relief	2
10	24U191	REGULATOR	1	161	123155	FITTING, flared, 1/4 pipe, 90 elbow	3
11	24J575	KIT, repair, pilot, ThermoLazer (includes 130)	1	164	123157	FITTING, flared, 1/2 pipe, adapter	1
12	108638	TEE, male	3	165	123158	FITTING, flared, 3/8 tube, tee	1
13	16F638	KIT, repair, valve, gas, ProMelt	1	166	125241	FITTING, flared, 1/8 npt x 90 elbow	2
17	106228	FITTING, tee, street	1	171	123160	FITTING, flared, 1/4 tube, coupling	1
18	16J484	PLATE, mount, burner	1	186	16F282	TUBE, formed, gas	1
20	16H105	BRACKET, support, burner, front	1	208	110755	WASHER, plain	2
22	16F641	BRACKET, support, tank, propane	1	217	127255	ELECTRODE	1
23	15W735	ARM, chamber, die	1	220	111235	SCREW, mach, pnh	3
28	24F695	ENCLOSURE, valve	1	221	116610	SCREW, mach, phil, pan, #10	9
29	16F642	COVER, enclosure, valve box	1	225	100020	WASHER, lock	3
30	16A708	BLOCK, spacer, gas valve	1	230	100179	NUT, hex mscr	2
32	118482	FITTING, elbow, 45	2	231	110637	SCREW, mach, panhead	5
33	125064	VALVE, needle, gas, 1/4 npt	2	233▲	16D646	LABEL, ISO, hot surface	5
34	15Y339	ROD, support, die	1	259	16J470	LABEL, front burner lighting instructions	1
35	125063	FITTING, flared, 1/4 pipe, adapter	1	280	16J865	PLATE, skid, torch, protector	1
48	16H128	TUBE, formed, gas	1	281	16A838	LABEL, caution, replacement	1
49	16J687	TUBE, formed, gas, pilot	1	282	24J404	LABEL, regulator	1
52	16H106	BRACKET, support, manifold, front	1	317	24J589	SLEEVE, high temp, 1/4, bulk	1
55	24J868	KIT, repair, frame, ThermoLazer (includes 281, 282)	1	319	16W410	BRACKET	1
64	157350	FITTING, nipple, pipe, hex	1	320	16C333	DOOR	1
67	16H104	INDICATOR, burner 24H622 24H625	7	323	116393	Fitting, Straight 1/4 NPT	1
68	24J577	KIT, repair, manifold, front	3	340	24J590	SLEEVE, high temp, 3/8, bulk	6
71	24J572	TUBE, formed, gas	1	357	120975	BUSHING, strain relief	1
73	24J587	KIT, repair, shroud, die (includes 233, 259)	1	400	24T765	KIT, repair, torch up burner (includes 67)	1
75	113958	RING, retaining, external	3	401+	100840	FITTING, elbow, street	1
76	16J486	TUBE, formed, gas	1	403+	127257	GAUGE, 300 psi	1
98	125085	FITTING, cap	1	404	24T885	KIT, repair, gauges	1
99	123086	ADAPTER,	1	405	114984	SCREW, tapping, phillips pan hd	1
102	104641	FITTING, bulkhead	2	406+	100030	BUSHING	1
105	112798	SCREW, thread forming, hex HD	14	407+	16W635	FITTING, filter	1
117	16A061	TUBE, formed, gas, ThermoLazer	3	408+	156971	FITTING, nipple, short	1
118	16W412	TUBE, formed, gas, ThermoLazer	1	409+	104984	FITTING, tee, pipe	1
120	100016	WASHER, lock	2	410+	118484	FITTING, connector	1
121	100015	NUT, hex mscr	4	415+		PLUG, 1/4 NPT Brass Hex Hd	1
126	123085	CONTROL, igniter, pulse	1	▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.			
130		FITTING, inlet, pilot	1	** Includes 323 Fiting, Straight 1/4 NPT			
131	114104	SCREW, mach, hex wash HD	10	+ Included in kit 24T885			
135	123162	FITTING, fluid, 1/8 pipe	2				
142	110249	ADAPTER, male elbow 90 degr	2				
146	107257	SCREW, thd forming	25				



Parts List - ThermoLazer (Models 24H622, 24H625)

Ref.	Part	Description	Qty	Ref.	Part	Description	Qty
4	112960	SCREW, cap, flng HD	10	221	116610	SCREW, mach, phil, pan, #10	13
5	102040	NUT, lock, hex	2	222▲	16A274	LABEL, ISO, explosion	1
19	24F693	BRACKET, handle, mount	1	224▲	15Y963	LABEL ISO, read instructions	1
21	24F694	HOLDER, tank, propane	1	233▲	16D646	LABEL, ISO, hot surfaces	5
22	16F641	BRACKET, support, tank, propane	1	247	16A317	LABEL, ThermoLazer, right	1
23	15W735	ARM, chamber, die	1	260	100131	NUT, full hex	3
25	15X377	TUBE, support, beadbox	1	270	16F660	SHIELD, heat, rear, Promelt	1
26	16A481	BAR, mount, indicator, line	1	275	16A873	LABEL, temperature control F & C	1
31	110385	SCREW, cap, hex HD (5/16x3)	2	277	119563	WASHER, belleville	1
37	112586	SCREW, cap, hex HD	13	278	114982	SCREW, cap, flng HD	11
46	102637	SCREW, cap	3	350	124655	GROMMET, high temp	1
51	24C232	INDICATOR, line, ThermoLazer	1	▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.			
55	24J868	KIT, repair, frame, ThermoLazer (includes 222, 224)	1				
57	15W443	SHAFT, pivot, agitator	2				
59	24J584	KIT, repair, mount, ThermoLazer, right (includes 233, 247)	1				
68	15W992	BAR, handle	1				
77	15X286	TUBE, lock	1				
79	15X287	BRACKET, lock	1				
80	193405	AXLE	1				
81	111020	WHEEL, pneumatic	2				
82	112405	NUT, lock	6				
83	112825	SPRING, belleville	10				
85	101566	NUT, lock	12				
91	15F910	BRACKET, cable	1				
92	114648	CAP, dust	3				
94	241445	CABLE	1				
97	111040	NUT, lock, insert, nylock, 5/16	23				
105	112798	SCREW	14				
110	195134	SPACER, ball, guide	2				
114	114659	GRIP, handle	5				
119	108851	WASHER, plain	2				
122	15X995	COVER, control box	1				
123	100023	WASHER, flat	5				
138	111145	KNOB, pronged	1				
139	111192	SCREW, cap flang HD	26				
140	110384	SCREW, cap, hex HD	2				
141	113664	SCREW, cap, hex HD	1				
143	114653	SCREW, cap, flange head	2				
146	107257	SCREW, thd forming	22				
156	119545	BUSHING, strain, relief	2				
162	24C397	KIT, replacement, temperature control (includes 275)	1				
167	123199	SCREW, shoulder, socket head	3				
174	121458	TIE, lanyard	1				
175	117779	SCREW, hex head, flanged	6				
178	123186	TOOL, spark lighter	1				
190	170772	WASHER, plain	2				
192	194310	LEVER, actuator	1				
204	16H582	TUBE, torch holder	1				
205	15X993	BOX, control	1				
207	120151	RETAINER, caplug	3				
209	801012	GROMMET	1				

Parts - ThermoLazer (Models 24H622, 24H625)



ti14230b

Parts List - ThermoLazer (Models 24H622, 24H625)

Ref.	Part	Description	Qty
4	112960	SCREW, cap, flng HD	10
14	16A404	RESERVOIR, Thermolazer, painted	1
37	112586	SCREW, cap, hex HD	13
41	16C018	CLIP, holder, wire	3
44	24C633	AGITATOR, large	1
45	24C634	AGITATOR, small	1
46	102637	SCREW, cap	3
56	15W440	CHAMBER, heat, site door	2
57	15W443	SHAFT, pivot, agitator	2
58	24J585	KIT, repair, mount, left (includes 233, 246)	1
61	15W447	AGITATOR, arm	1
82	112405	NUT, lock	6
85	101566	NUT, lock	10
106	198891	BRACKET	1
107	198930	ROD, brake	1
108	198931	BEARING	1
110	195134	SPACER, ball, guide	2
111	113961	SCREW, cap, hex HD	1
113	15Y673	ROD, pivot, agitator	1
114	114659	GRIP, handle	5
124	100681	NUT, jam, hex	1
129	100111	NUT	2
145	112774	SCREW, mach, sltd hex wash HD	4
146	107257	SCREW, thd forming	22
150	15X215	SCREEN, kettle	1
162	24C397	KIT, replacement, temperature control (includes 41, 124, 318)	1
167	123199	SCREW, shoulder, socket head	4
168	123200	ROD, ball joint, end	2
175	117779	SCREW, hex head, flanged	6
210	100133	WASHER, lock, 3/8	9
233▲	16D646	LABEL, 2 in., ISO, hot surface	5
246	16A316	LABEL, brand, Thermolazer left	1
260	100131	NUT, full hex	3
265	15Y964	LABEL, footage counter	1
270	16F660	SHIELD, heat, rear, Promelt	1
278	114982	SCREW, cap, flng HD	11
281	16A838	LABEL, caution replace prT 302V	1
282	24J404	LABEL, Promelt regulator label	1
318	15Y792	HOLDER, temp probe	1
345	15W733	DEFLECTOR, heat	2
347	258686	SHAFT, agitator	1

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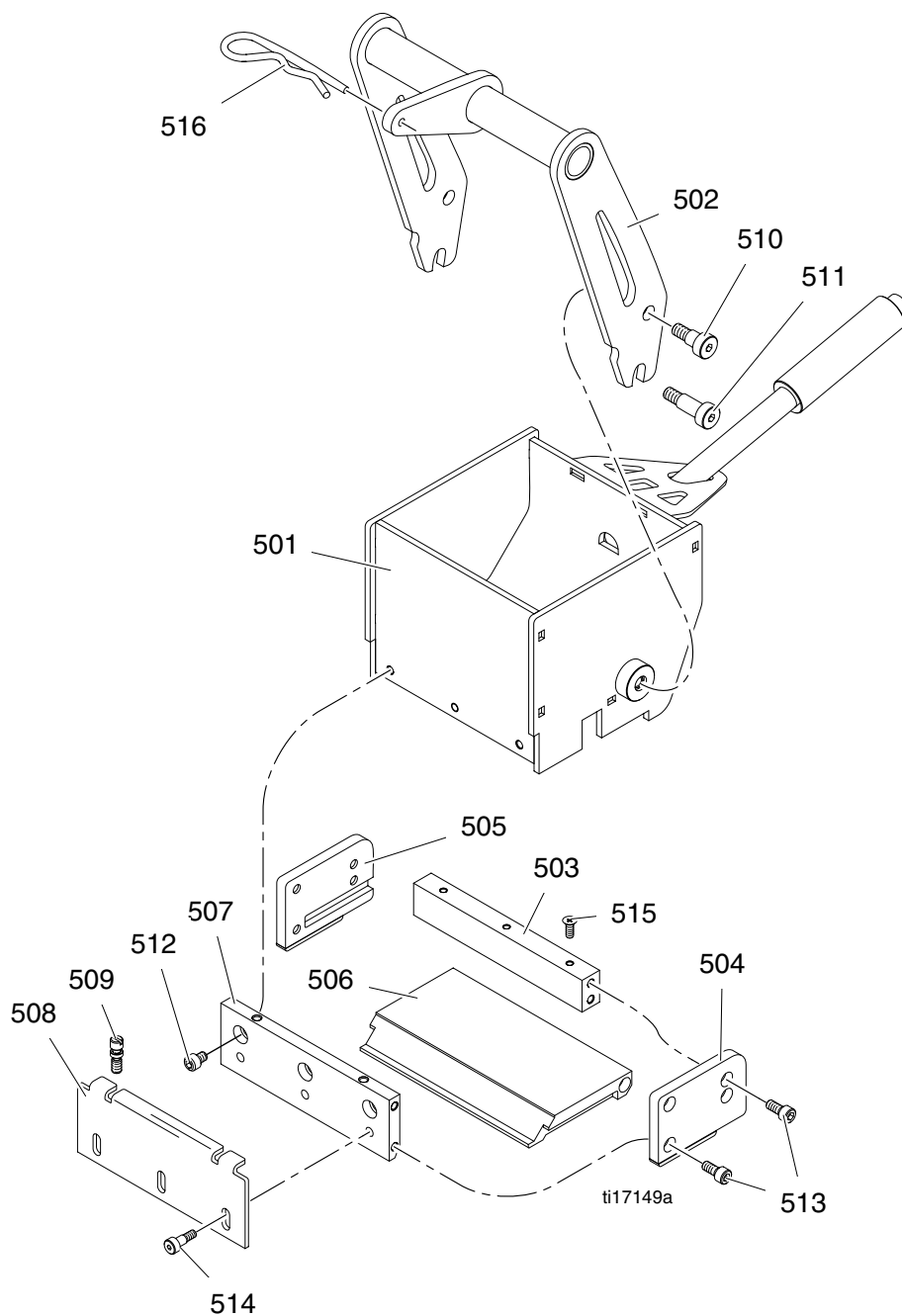
Parts List - ThermoLazer (Models 24H622, 24H625)

Ref.	Part	Description	Qty
15	15W407	COVER, kettle	1
34	15Y339	ROD, support, die	1
36	15Y677	LATCH, cover	4
38	15Y679	THERMOMETER, temp gauge	1
40	113680	WASHER, wave	8
47	257368	SCREEN, inlet	1
62	16A065	FLANGE, mount, gate valve	1
66	24J588	KIT, shroud, die, door (includes 258, 261, 262)	1
73	24J587	KIT, shroud, die (includes 233, 259)	1
74	15W614	HANDLE, actuator	1
82	112405	NUT, lock	6
103	16A066	PLATE, guide, gate valve	2
105	112798	SCREW, thread forming, hex HD	12
114	114659	GRIP, handle	5
116	15W737	BRACKET, tension, die	1
119	108851	WASHER, plain	6
121	100015	NUT, hex mscr	4
123	100023	WASHER, flat	5
139	111192	SCREW, cap flang HD	26
153	123164	SCREW, sockethead, flat	4
155	116935	SCREW, cap, flnghd	2
159	112776	WASHER, plain (24H622 only)	4
170	123154	HINGE, access door	1
173	121256	SCREW, shoulder, skt HD	1
177	123099	LOCK, slide barrel	1
180	15Y949	PLATE, back support	1
183	24C105	GATE, valve, finished	1
193	24B811	HANDLE, gate valve	1
199	123206	SPRING, extension	1
200	101712	NUT, lock	1
201	123209	BEARING, flanged	1
202	123208	SCREW, cap, hex head	1
203	115028	WASHER, flat	1
207	120151	RETAINER, caplug	3
210	100133	WASHER, lock, 3/8	9
211	100664	SCREW, set, sch	1
215	24J084	FUNNEL, complete	1
216	15W412	HANDLE, cover	2
221	116610	SCREW, mach, phil, pan, #10	13
233▲	16D646	LABEL, 2 in., ISO, hot surface	5
238	123035	RIVET, blind	4
247	16A317	LABEL, brand, Thermolazer right	1
258	16H841	LABEL, instruction, SmartDie II	1
259	16J470	LABEL, front burner lighting ins	1
261	16J468	LABEL, torch lighting instructio	1
262	16J469	LABEL, rear burner lighting inst	1
266	100021	SCREW, cap hex HD	1
267	100847	FITTING, lubrication	2
279	100680	SCREW, cap, hex HD	2
351	120476	BOLT, shoulder, 5/16	4
355	168160	BUSHING, pipe	1

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Parts - SmartDie II Box

24H431	3 in. (8 cm)
24H426	4 in. (10 cm)
24H432	5 in. (12 cm)
24H427	6 in. (15 cm)
24H433	7 in. (18 cm)
24H428	8 in. (20 cm)
24H434	9 in. (22.5 cm)
24H429	10 in. (25 cm)
24H430	12 in. (30 cm)

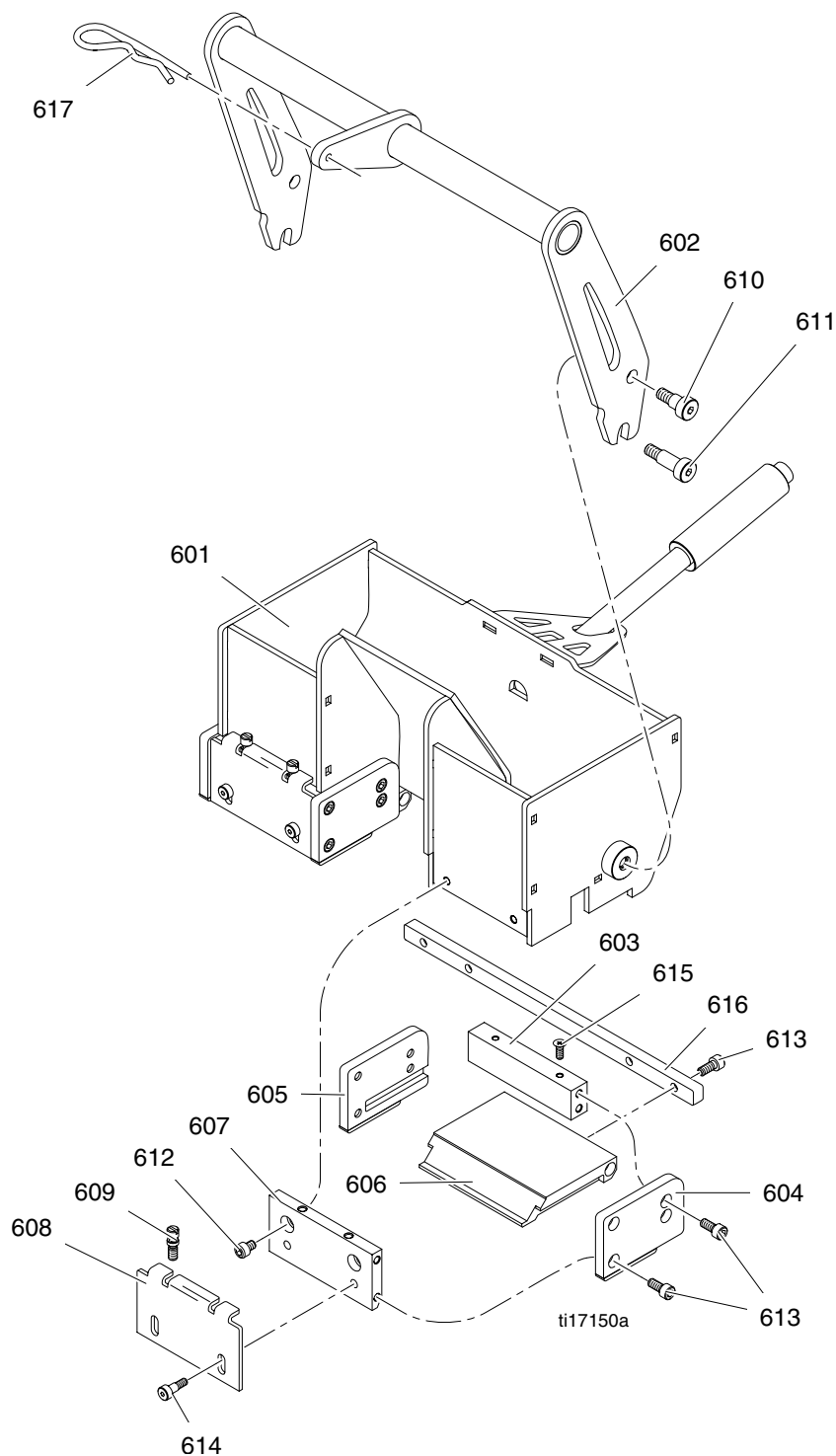


Parts List - Smart Die II Box

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
501	24H562	BOX, die, weldment (24H431)	1	16H040	PLATE, screed, adjustable (24H429)	1	
	24H563	BOX, die, weldment (24H426)	1	16H041	PLATE, screed, adjustable (24H430)	1	
	24H564	BOX, die, weldment (24H432)	1	509	16H044	SCREW, adjustment, screed	2
	24H565	BOX, die, weldment (24H427)	1	510	125028	SCREW, shoulder, socket head M8	2
	24H566	BOX, die, weldment (24H433)	1	511	125027	SCREW, shoulder, socket head M8	2
	24H567	BOX, die, weldment (24H428)	1	512	110501	SCREW, cap sch, M6 x 8 (24H431)	2
	24H568	BOX, die, weldment (24H434)	1		110501	SCREW, cap sch, M6 x 8 (24H426)	2
	24H569	BOX, die, weldment (24H429)	1		110501	SCREW, cap sch, M6 x 8 (24H432)	3
	24H570	BOX, die, weldment (24H430)	1		110501	SCREW, cap sch, M6 x 8 (24H427)	3
502	24H571	YOKE, weldment (24H431)	1		110501	SCREW, cap sch, M6 x 8 (24H433)	3
	24H572	YOKE, weldment (24H426)	1		110501	SCREW, cap sch, M6 x 8 (24H428)	3
	24H573	YOKE, weldment (24H432)	1		110501	SCREW, cap sch, M6 x 8 (24H434)	4
	24H574	YOKE, weldment (24H427)	1		110501	SCREW, cap sch, M6 x 8 (24H429)	4
	24H575	YOKE, weldment (24H433)	1		110501	SCREW, cap sch, M6 x 8 (24H430)	4
	24H576	YOKE, weldment (24H428)	1	513	121518	SCREW, cap, shc	8
	24H577	YOKE, weldment (24H434)	1	514	125029	SCREW, shoulder, socket head M5 (24H431)	2
	24H578	YOKE, weldment (24H429)	1		125029	SCREW, shoulder, socket head M5 (24H426)	2
	24H579	YOKE, weldment (24H430)	1		125029	SCREW, shoulder, socket head M5 (24H432)	3
503	16H001	BAR, support (24H431)	1		125029	SCREW, shoulder, socket head M5 (24H427)	3
	16G995	BAR, support (24H426)	1		125029	SCREW, shoulder, socket head M5 (24H433)	3
	16H006	BAR, support (24H432)	1		125029	SCREW, shoulder, socket head M5 (24H428)	3
	16G996	BAR, support (24H427)	1		125029	SCREW, shoulder, socket head M5 (24H429)	3
	16H007	BAR, support (24H433)	1		125029	SCREW, shoulder, socket head M5 (24H430)	3
	16G997	BAR, support (24H428)	1		125029	SCREW, shoulder, socket head M5 (24H431)	3
	16H008	BAR, support (24H434)	1		125029	SCREW, shoulder, socket head M5 (24H426)	3
	16G998	BAR, support (24H429)	1		125029	SCREW, shoulder, socket head M5 (24H432)	3
	16G999	BAR, support (24H430)	1		125029	SCREW, shoulder, socket head M5 (24H427)	3
504	24H581	PLATE, die runner, right	1		125029	SCREW, shoulder, socket head M5 (24H433)	3
505	24H580	PLATE, die runner, left	1		125029	SCREW, shoulder, socket head M5 (24H428)	3
506	16H019	BAR, shear (24H431)	1		125029	SCREW, shoulder, socket head M5 (24H429)	3
	16H014	BAR, shear (24H426)	1		125029	SCREW, shoulder, socket head M5 (24H430)	3
	16H020	BAR, shear (24H432)	1		125029	SCREW, shoulder, socket head M5 (24H431)	3
	16H015	BAR, shear (24H427)	1		125029	SCREW, shoulder, socket head M5 (24H426)	3
	16H021	BAR, shear (24H433)	1		125029	SCREW, shoulder, socket head M5 (24H432)	3
	16H016	BAR, shear (24H428)	1		125029	SCREW, shoulder, socket head M5 (24H427)	3
	16H022	BAR, shear (24H434)	1		125029	SCREW, shoulder, socket head M5 (24H433)	3
	16H017	BAR, shear (24H429)	1		125029	SCREW, shoulder, socket head M5 (24H428)	3
	16H018	BAR, shear (24H430)	1		125029	SCREW, shoulder, socket head M5 (24H429)	3
507	16H029	BAR, shear, stop (24H431)	1		125029	SCREW, shoulder, socket head M5 (24H430)	3
	16H024	BAR, shear, stop (24H426)	1		125029	SCREW, shoulder, socket head M5 (24H431)	3
	16H030	BAR, shear, stop (24H432)	1		125029	SCREW, shoulder, socket head M5 (24H426)	3
	16H025	BAR, shear, stop (24H427)	1		125029	SCREW, shoulder, socket head M5 (24H432)	3
	16H031	BAR, shear, stop (24H433)	1		125029	SCREW, shoulder, socket head M5 (24H427)	3
	16H026	BAR, shear, stop (24H428)	1		125029	SCREW, shoulder, socket head M5 (24H433)	3
	16H032	BAR, shear, stop (24H434)	1		125029	SCREW, shoulder, socket head M5 (24H428)	3
	16H027	BAR, shear, stop (24H429)	1		125029	SCREW, shoulder, socket head M5 (24H429)	3
	16H028	BAR, shear, stop (24H430)	1		125029	SCREW, shoulder, socket head M5 (24H430)	3
508	16H033	PLATE, screed, adjustable (24H431)	1		125029	SCREW, shoulder, socket head M5 (24H431)	3
	16H034						

Parts - Double Line Die Box

24H435	4-3-4 in. (10-8-10 cm)
24H436	4-4-4 in. (10-10-10 cm)
24H437	3-3-3 in. (8-8-8 cm)
24J785	4-6-4 in. (10-15-10 cm)



Parts List - Double Line Die Box

Ref.	Part	Description	Qty.
601	24H647	BOX, die, weldment (24H435)	1
	24H648	BOX, die, weldment (24H436)	1
	24H649	BOX, die, weldment (24H437)	1
	24J784	BOX, die, weldment (24J785)	1
602	24H652	YOKE, weldment (24H435)	1
	24H579	YOKE, weldment (24H436)	1
	24H577	YOKE, weldment (24H437)	1
	24J783	YOKE, weldment (24J785)	1
603	16G995	BAR, support (24H435)	1
	16G995	BAR, support (24H436)	1
	16H001	BAR, support (24H437)	1
	16G995	BAR, support (24J785)	1
604	24H581	PLATE, die runner, right	1
605	24H580	PLATE, die runner, left	1
606	16H159	BAR, shear (24H435)	1
	16H159	BAR, shear (24H436)	1
	16H160	BAR, shear (24H437)	1
	16H159	BAR, shear (24J785)	1
607	16H024	BAR, shear, stop (24H435)	1
	16H024	BAR, shear, stop (24H436)	1
	16H029	BAR, shear, stop (24H437)	1
	16H024	BAR, shear, stop (24J785)	1
608	16H034	PLATE, screed, adjustable (24H435)	1
	16H034	PLATE, screed, adjustable (24H436)	1
	16H041	PLATE, screed, adjustable (24H437)	1
	16H034	PLATE, screed, adjustable (24J785)	1
609	16H044	SCREW, adjustment, screed	4
610	125028	SCREW, shoulder, socket head m8	4
611	125027	SCREW, shoulder, socket head m8	4
612	110501	SCREW, cap, sch M6 x 8	4
613	121518	SCREW, cap, shc	20
614	125029	SCREW, shoulder, socket head M5	4
615	123340	SCREW, mach, flat head, undercut	4
616	16H189	GUIDE, bar, shear, double (24H435)	1
	16H161	GUIDE, bar, shear, double (24H436)	1
	16H162	GUIDE, bar, shear, double (24H437)	1
	16J802	GUIDE, bar, shear, double (24J785)	1
617	123385	PIN	1

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

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Original instructions. This manual contains English. MM 3A1321

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