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Edition 1
May 2007

Electric Screwdrivers

EL, EP and ET 115V AC Series

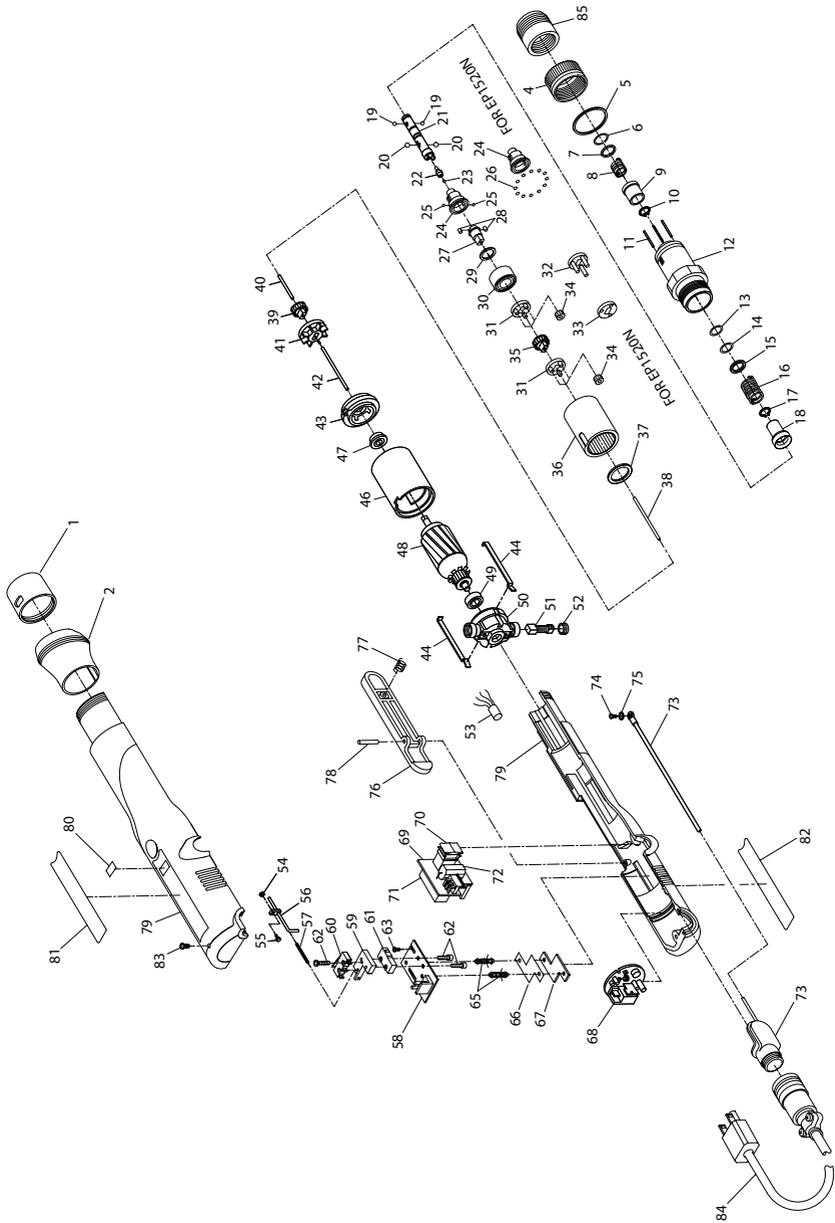
Parts Information



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 **Ingersoll Rand**

Models EL1510N, EL1520N, EL2603N, EL2607N, EL2612N and ET4007N Electric Screwdrivers
Exploded diagram



(Dwg. TPA1489-1)

Models EL1510N, EL1520N, EL2603N, EL2607N, EL2612N and ET4007N Electric Screwdrivers

Parts List

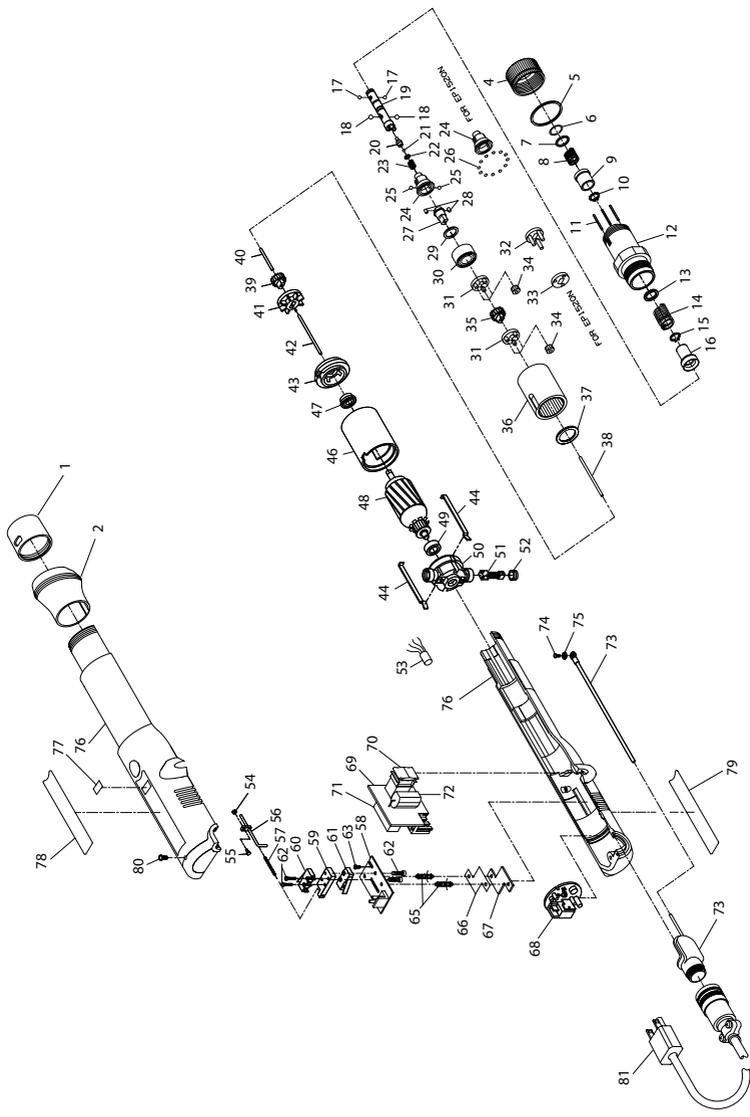
Item	Part Description	Part Number	Item	Part Description	Part Number
1	Retainer Coupling	EP4007N-125	35	Gear Head Pinion Gear	
2	Slanted Flange (standard on 1510N, 1520N, 2603N, 2607N and 2612 N)	EP4007N-124		for EL1510N and EL1520N	EP1510N-17
*	Straight Flange (Standard on 4007N)	EP4007N-123		for EL2603N	EP2603N-17
4	Clutch Adjusting Ring	EP4007N-582		for EL2607N	EP2607N-17
5	Indicator Ring	EP4007N-682		for EL2612N	EP2612N-17
				for EL4007N	EP4007N-17
6	Bit Retainer Retaining Ring (Front) (for models ending in N only)	EP4007N-683	36	Gear Case	
7	Bit Retainer Collar (for models ending in N only)	EP4007N-585		for EL1510N	EP1510-37
8	Bit Retainer Spring (for models ending in N only)	EP4007N-931		for EL1520N, EL2603N, EL2612N and EL4007N	EP4007N-37
9	Bit Retainer Sleeve (for models ending in N only)	EP4007N-930		for EL2607N	EP2607N-17
10	Bit Retainer Retaining Ring	EP4007N-584	37	Gear Case Shield	EP4007N-207
11	Clutch Adjusting Pin (3)	EP4007N-416	38	Clutch Pilot Rod "I" (2.26" long)	EP4007N-435
12	Clutch Housing Assembly		39	Fan Pinion Gear	
	for models ending in 155, 253 or 255	ET4007N255-580		for EL1510N	EP1510N-18
	for all other models	EP4007N-580		for EL1520N and EL2603N	EP2603N-18
13	Front Shim	EL4007N-623		for EL2607N	EP2607N-18
14	Rear Shim	EP4007N-624		for EL2612N	EP2612N-18
15	Clutch Spring Plate	EP4007N-623		for EL4007N	EP4007N-18
16	Clutch Spring		40	Fan Pilot Rod "G" (.385" long)	EP4007N-436
	for EL1510N	EP4007N-583	41	Fan	EP4007N-52
	for EL1520N	EP1520N-583	42	Motor Pilot Rod "J" (2.71" long)	EP4007N-437
	for EL2612N, EL2603N and EL2607N	EP2607N-583		Motor Assembly	
	for EL4007N	EP4007N-583		for EL2603N	EP2603N-A53
17	Taper Ring Retaining Ring	EP4007N-584		for EL1510N and EL2607N	EP2607N-A53
18	Taper Ring Assembly			for EL1520N	EP1502N-A53
	for EL1520N	EP1520N-588		for EL2612N and EL4007N	EP4007-A53
	for EL2612N, EL2607N, EL1510N and EL2603N	EP2607N-588	43	Front End Plate	EP4007N-11
	for ET4007N	EP4007N-588	44	Motor Assembly Spring (2)	EP4007N-98
19	Bit Retaining Ball (.094 dia.) (2) (for models ending in N only)	R000B-263	46	Field	
20	Pilot Cam Ball (.156 dia.) (4)	2U-696		for EL1510N, EL2603N and EL2607N	EP2607N-54
21	Bit Holder Assembly	EP4007N-586		for EL1520N, EL2612N and EL4007N	EP4007N-54
22	Pilot	EP4007N-408	47	Front Armature Bearing	EP4007N-24
23	Pilot Ball (.062 dia.)	EP4007N-422	48	Armature	
24	Cam Guide			for EL2603N	EP2603N-53
	for EL1520N	EP1520N-681		for EL1510N and EL2607N	EP2607N-53
	for all others	EP4007N-681		for EL1520N	EP1520N-53
25	Cam Guide Ball (.156 dia.)	2U-696		for EL2612N and EL4007N	EP4007N-53
26	Cam Guide Bearing Ball (23) (078" dia.) (for EL1520N)	EL1520N-510	49	Rear Armature Bearing	EP4007N-22
27	Cam		50	Rear End Plate	EP4007N-12
	for ET4007N and EL2603N	EP4007-581	51	Brush Assembly (includes 10 pieces)	EP4007N-BP
	for all others	EP1510-581	52	Brush Cap (2)	EP4007N-25
28	Cam Roller (2)	EP4007N-587	53	Motor Coil	EP4007N-594
29	Spindle Washer		54	Adjusting Screw Nut	EP4007N-593
	for EL1520N	EL1520N-509	55	Pilot Rod Adjusting Screw	EP4007N-592
	for all others	EP4007N-509	56	Pilot Rod "D"	EP4007N-438
30	Spindle Bearing	EP4007N-510	57	Pilot Rod Spring	EP4007N-595
31	Spindle/Gear Head (2)		58	Microswitch Circuit Board	EL4007N-220
	for EL1510N, EL2603N and EL2607N	EP2607N-216	59	Switch Plate	EL4007N-221
	for EL2612N	EP2612N-216	60	Shut-off Switch	EP4007N-223
	for ET4007N	EP4007N-216	61	Start Switch	EL4007N-222
32	Gear Head (for EL1520N)	EP1520N-216	62	Switch Screw (12 mm) (4)	EP4007N-224
33	Gear Head Spacer (for EL1520N)	EP1520N-108	63	Switch Base Screw (5 mm) (2)	EP4007N-226
34	Planet Gear		65	Switch Base Spacer (2)	EP4007N-225
	for EL1510N (6)	EP1510N-10	66	Insulating Film	EP4007N-227
	for EL1520N (3)	EP1520N-10	67	Brush Light Circuit Board	EP4007N-228
	for EL2603N (6)	EP2603N-10	68	Controller Assembly	EP4007N-424
	for EL2607N (6)	EP2607N-10		Reverse Switch Circuit Board Assy.	EP4007N-A229
	for EL2612N (6)	EP2612N-10	69	Reverse Switch Circuit Board	EP4007N-229
	for EL4007N (6)	EP4007N-10	70	Reverse Switch	EP4007N-329

**Models EL1510N, EL1520N, EL2603N, EL2607N, EL2612N and ET4007N Electric Screwdrivers
Parts List (Continued)**

Item	Part Description	Part Number	Item	Part Description	Part Number
*	Reverse Switch Rocker	EP4007N-330	84	Power Cord (8'; straight)	EP4007N-239-8
71	Capacitor	EP4007N-230	85	Angle Head Coupling for models ending in 1S5, 2S3 or 2S5 only	EL4007N2S5H-AHC
72	Resistor	EP4007N-231	*	Torque Adjusting Wrench	EP4007N-516
73	Receptacle Assembly	EP4007N-44	*	Suspension Bail	
74	Ground Screw	EP4007N-42		for ET4007N (fits Pistol Grip)	EP4007N-366
75	Ground Screw Washer	EP4007N-43		for all others (fits tool)	EP4007N-365
	Housing Assembly		*	Microswitch Adjusting Wrench Package	ES60T-MSW
	for EL1510N	EL1510N-A40	*	Pistol Grip Assembly	EP4007N-48
	for EL1520N	EL1520N-A40	*	Power Cord (12'; straight)	EP4007N-239-12
	for EL2603N	EL2603N-A40	*	Power Cord (6'; coiled)	EP4007N-230-C6
	for EL2607N	EL2607N-A40	*	Test Brush (1.15 V)	EP4007N-TB115
	for EL2612N	EL2612N-A40	*	Switch Adjustment Gauge(for high torque models)	EP1510N-SG
	for ET4007N	EL4007N-A40	*	Gear Case Jig (for high torque models)	EP1510N-J37
76	Throttle Lever	EL4007N-273	*	Hardware Package (includes illustrated items) 6, 10, 17,19[2] 44[2], 52[2], 54, 55, 62 63[2], 66,74,75,77, 78 and 83)	EL4007N-HP
77	Throttle Spring	EL4007N-274	*	Maintenance Label	
78	Throttle Lever Pin	EL4007N-275		English	EP4007N-302
79	Housing Package	EL4007N-40		French	EP4007N-302F
80	Brush Light Cover	EP4007N-45		German	EP4007N-302G
81	Nameplate			Spanish	EP4007N-302S
	for EL1510N	EL1510N-301			
	for EL1520N	EL1520N-301			
	for EL2603N	EL2603N-301			
	for EL2607N	EL2607N-301			
	for EL2612N	EL2612N-301			
	for EL4007N	EL4007N-301			
82	Warning Label	EP4007N-99			
83	Housing Screw (package of 10)	EP4007N-41			

* Not Illustrated

Models EP1510N, EP1520N, EP2603N, EP2607N and EP4007N Electric Screwdrivers
Exploded diagram



(Dwg. TPA1499)

Models EP1510N, EP1520N, EP2603N, EP2607N, EP2612N and EP4007N Electric Screwdrivers

Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Retainer Coupling	EP4007N-125	35	Gear Head Pinion Gear	
2	Slanted Flange (standard on 1510N, 1520N, 2603N, 2607N and 2612 N)	EP4007N-124		for EP1510N and EP1520N	EP1510N-17
*	Straight Flange (Standard on 4007N)	EP4007N-123		for EP2603N	EP2603N-17
4	Clutch Adjusting Ring	EP4007N-582		for EP2607N	EP2607N-17
5	Indicator Ring	EP4007N-682		for EPL2612N	EP2612N-17
6	Bit Retainer Retaining Ring (Front)	EP4007N-683		for EP4007N	EP4007N-17
7	Bit Retainer Collar	EP4007N-585	36	Gear Case	
8	Bit Retainer Spring	EP4007N-931		for EP1510N	EP1510-37
9	Bit Retainer Sleeve	EP4007N-930		for EP1520N, EP2603N, EP2612N and EP4007N	EP4007N-37
10	Bit Retainer Retaining Ring	EP4007N-584		for EP2607N	EP2607N-17
11	Clutch Adjusting Pin (3)	EP4007N-416	37	Gear Case Shield	EP4007N-207
12	Clutch Housing Assembly		38	Clutch Pilot Rod "I" (.2.26" long)	EP4007N-435
12	Clutch Housing Assembly	EP4007N-580	39	Fan Pinion Gear	
13	Clutch Spring Plate	EP4007N-623		for EP1510N	EP1510N-18
14	Clutch Spring			for EP1520N and EP2603N	EP2603N-18
	for EP1510N	EP1510N-583		for EP2607N	EP2607N-18
	for EP1520N	EP1520N-583		for EP2612N	EP2612N-18
	for EP2603N, EP260NN and EP2612N	EP2607N-583		for EP4007N	EP4007N-18
	for EP4007N	EP4007N-583	40	Fan Pilot Rod "G" (.385" long)	EP4007N-436
15	Taper Ring Retaining Ring	EP4007N-584	41	Fan	EP4007N-52
16	Taper Ring Assembly		42	Motor Pilot Rod "J" (.2.71" long)	EP4007N-437
	for EP1520N	EP1520N-588		Motor Assembly	
	for EP1510N, EP2603N, EP2607N and EP2612N	EP2607N-588		for EP2603N	EP2603N-A53
	for ET4007N	EP4007N-588		for EP1520N	EP1520N-A53
				for EP1510N and EP2607N	EP2607N-A53
17	Bit Retaining Ball (.094 dia.) (2)	R000B-263		for EP2612N and EP4007N	EP4007N-A53
18	Pilot Cam Ball (.156 dia.) (4)	2U-696	43	Front End Plate	EP4007N-11
19	Bit Holder Assembly	EP4007N-586	44	Motor Assembly Spring (2)	EP4007N-98
20	Pilot	EP4007N-408	46	Field	
21	Pilot Ball (.062 dia.)	EP4007N-422		for EP1510N, EP2603N and EP2607N	EP2607N-54
22	Pilot Push Spring Washer	EP4007N-421		for EP1520N, EP2612N and EP4007N	EP4007N-54
23	Pilot Push Spring	EP4007N-420	47	Front Armature Bearing	EP4007N-24
24	Cam Guide		48	Armature	
	for EP1520N	EP1520N-681		for EP2603N	EP2603N-53
	for all others	EP4007N-681		for EP1520N	EP1520N-53
25	Cam Guide Ball (.156 dia.)	2U-696		for EP1510N and EP2607N	EP2607N-53
26	Cam Guide Bearing Ball (23) (for EPL1520N)	EP1520N-510		for EP2612N and EP4007N	EP4007N-53
27	Cam		49	Rear Armature Bearing	EP4007N-22
	for EP4007N and EP2603N	EP4007-581	50	Rear End Plate	EP4007N-12
	for all others	EP1510-581	51	Brush Assembly (includes 10 pieces)	EP4007N-BP
28	Cam Roller (2)	EP4007N-587	52	Brush Cap (2)	EP4007N-25
29	Spindle Washer		53	Motor Coil	EP4007N-594
	for EP1520N	EP1520N-509	54	Adjusting Screw Nut	EP4007N-593
	for all others	EP4007N-509	55	Pilot Rod Adjusting Screw	EP4007N-592
30	Spindle Bearing	EP4007N-510	56	Switch Pilot Rod "D"	EP4007N-438
31	Spindle/Gear Head (2)		57	Pilot Rod Spring	EP4007N-595
	for EP1510N, EP2603N and EP2607N	EP2607N-216	58	Microswitch Circuit Board	EP4007N-220
	for EP2612N	EP2612N-216	59	Switch Plate	EP4007N-221
	for EP4007N	EP4007N-216	60	Shut-off Switch	EP4007N-223
32	Gear Head (for EP1520N)	EP1520N-216	61	Start Switch	EL4007N-222
33	Gear Head Spacer (for EP1520N)	EP1520N-108	62	Switch Screw (12 mm) (4)	EP4007N-224
34	Planet Gear		63	Switch Base Screw (5 mm) (2)	EP4007N-226
	for EP1510N (6)	EP1510N-10	65	Switch Base Spacer (2)	EP4007N-225
	for EP1520N (3)	EP1520N-10	66	Insulating Film	EP4007N-227
	for EP2603N (6)	EP2603N-10	67	Brush Light Circuit Board	EP4007N-228
	for EP2607N (6)	EP2607N-10	68	Controller Assembly	EP4007N-424
	for EP2612N (6)	EP2612N-10			
	for EP4007N (6)	EP4007N-10			

**Models EP1510N, EP1520N, EP2603N, EP2607N, EP2612N and EP4007N Electric Screwdrivers
Parts List (Continued)**

Item	Part Description	Part Number	Item	Part Description	Part Number
	Reverse Switch Circuit Board Assy.	EP4007N-A229	81	Power Cord (8'; straight)	EP4007N-239-8
	Reverse Switch Circuit Board	EP4007N-229	*	Torque Adjusting Wrench	EP4007N-516
	Reverse Switch	EP4007N329	*	Suspension Bail	
*	Reverse Switch Rocker	EP4007N-330		for EP4007N (fits Pistol Grip)	EP4007N-366
71	Capacitor	EP4007N-230		for all others (fits tool)	EP4007N-365
72	Resistor	EP4007N-231	*	Microswitch Adjusting Wrench Package	ES60T-MSW
73	Receptacle Assembly	EP4007N-44	*	Pistol Grip Assembly	EP4007N-48
74	Ground Screw	EP4007N-42	*	Power Cord (12'; straight)	EP4007N-239-12
75	Ground Screw Washer	EP4007N-43	*	Power Cord (6'; coiled)	EP4007N-230-C6
	Housing Assembly		*	Test Brush (115 V)	EP4007N-TB115
	for EP1510N	EP1510N-A40	*	Switch Adjustment Gauge (for high torque models)	EP1510N-SG
	for EP1520N	EP1520N-A40		Gear Case Jig (for high torque models)	EP1510N-J37
	for EP2603N	EP2603N-A40	*	Hardware Package (includes illustrated items 6, 10, 17[2], 44[2], 52[2], 54, 55, 62[4], 63[2], 66,74,75 and 80)	EP4007N-HP
	for EP2607N	EP2607N-A40			
	for EP2612N	EP2612N-A40			
	for EP4007N	EP4007N-A40			
76	Housing Package	EP4007N-40	*	Maintenance Label	
77	Brush Light Cover	EP4007N-45		English	EP4007N-302
78	Nameplate			French	EP4007N-302F
	for EP1510N	EP1510N-301		German	EP4007N-302G
	for EP1520N	EP1520N-301		Spanish	EP4007N-302S
	for EP2603N	EP2603N-301			
	for EP2607N	EP2607N-301			
	for EP2612N	EP2612N-301			
	for EP4007N	EP4007N-301			
79	Warning Label	EP4007N-99			
80	Housing Screw (package of 10)	EP4007N-41			

* Not Illustrated

Series 3 Angle Attachments for Models ending in 1S5, 2S5 and 2S3 Parts List

Item	Part Description	Part Number		
		For Models ending in 1S5	For Models ending in 2S3	For Models ending in 2S5
	Angle Attachment	3RL1A5	3RL23	3RL25
100	Angle Housing Assembly	3RL1A-A550	3RL2-A550	3RL2-A550
101	Grease Fitting	DOF9-879	DOF9-879	DOF9-879
102	Spindle Upper Bearing	--	120A4-603	120A4-603
102	Upper Spindle Bearing	7L1A-603	--	--
102A	Shim Packet	7L1A-P448	--	--
103	Matched Gear Set (Bevel Gear and Pinion not sold separately)	3RL1A5-A591	3RL2-A552	3RL2-A552
103A	Socket Retainer Assembly (consists of Plunger, Spring and Washer)	500B-816A	--	--
104	Thrust Bearing Retainer	3RL2-705	3RL2-705	3RL2-705
105	Rear Thrust Bearing Seat	3RL2-682	3RL2-682	3RL2-682
106	Bevel Pinion Thrust Bearing	3RL1A-514	3RL2-105	3RL2-105
107	Front Thrust Bearing Seat	--	3RL2-683	3RL2-683
108	Coupling Nut	3RL2-27	3RL2-27	3RL2-27
109	Coupling Nut Retainer	3RL2-29	3RL2-29	3RL2-29
110	Bevel Pinion Bearing (2 for 3RL23 and 3RL25; 1 for 3RL1A5)	7AH-24	H54U-511B	H54U-511B
111	Bevel Gear Retainer Nut	--	120A4-578	120A4-578
112	Spindle Lower Bearing	--	120A4-593	120A4-593
113	Angle Housing Cap	--	120A4-531	120A4-531
113A	Angle Housing Cap Assembly	3RL1A-531	--	--
113B	Angle Housing Cap Seal	3RL1A-513	--	--
114	1/4" Square Drive Spindle Assembly	--	--	--
	Spindle Assembly	--	--	141A9-607-1/4"
-115	Socket Retainer (consists of Plunger, Spring and Washer)	--	--	500B-816A
116	1/4" Hex Bit Holder Spindle Assembly (for standard bits)	--	5L2C3-B586	--
117	Bit Retaining Ball (0.125" diameter)	--	AV1-255	--
118	Bit Retaining Spring	--	102A60-241	--
119	Ball Race	3RL1A-532	--	--
120	Steel Ball (1/16" diameter) (20)	3RL1A-512	--	--
	Housing Cap Wrench	--	141A12-26	141A12-26

* Not illustrated.

• To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one @air or set) of each part indicated by a bullet (*) for every four tools in service.

Parts and Maintenance

When the life of the tool has expired, it is recommended that the tool be disassembled, degreased and parts be separated by material so that they can be recycled.

Tool repair and maintenance should only be carried out by an authorized Service Center.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

Related Documentation

For additional information refer to:

Product Safety Information Manual 16602963.

Product Information Manual 45527579.

Maintenance Information Manual 45530110.

Manuals can be downloaded from www.irttools.com.

Notes:

Notes:

www.irttools.com

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