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Edition 1
April 2005

Electric Screwdrivers

EL, EP and ET 34V DC Series

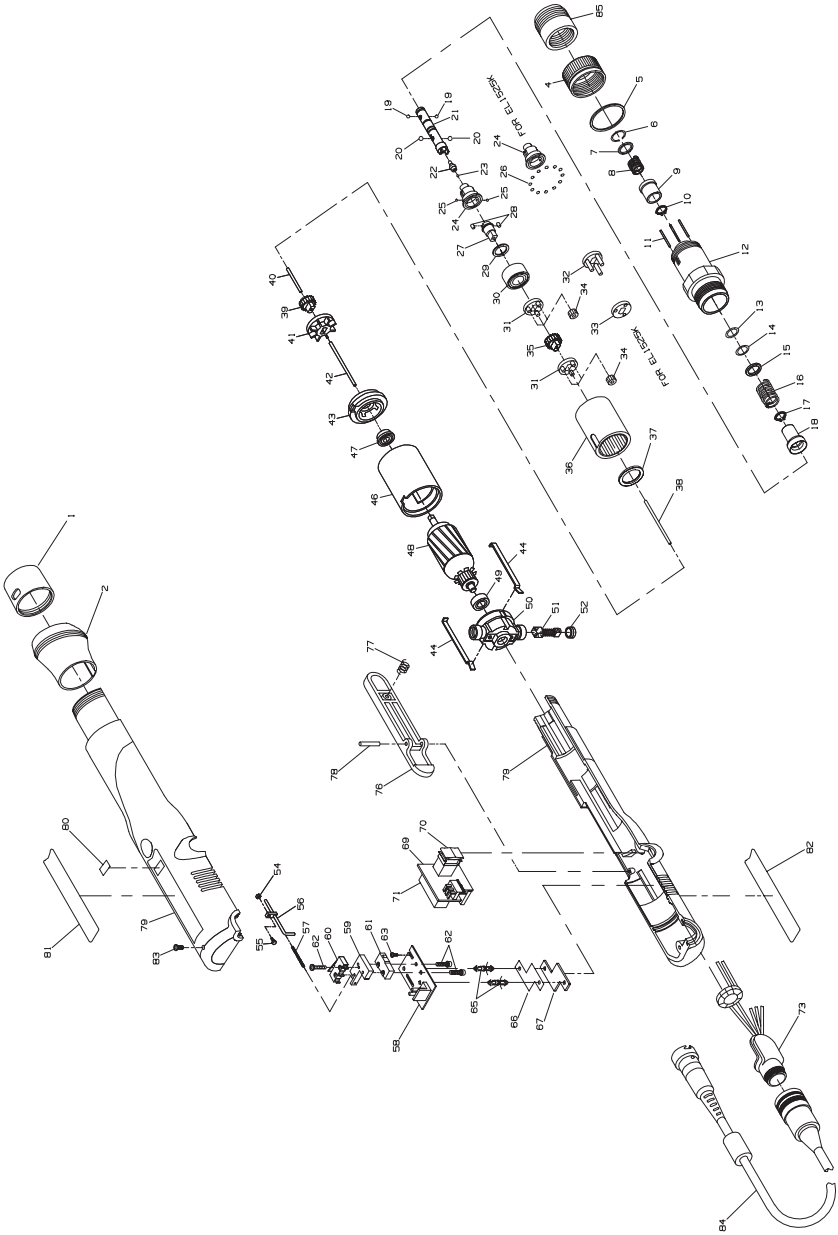
Parts Information



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EL, EP and ET Electric Screwdriver Exploded Diagram



(Dwg. TPA1528)

EL, EP and ET Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Retainer Coupling	EP4007N-125		for ET4011K (6)	EP4007N-10
2	Slanted Flange (standard)	EP4007N-124		for EL2616K (6)	EP2612N-10
*	Straight Flange (optional)	EP4007N-123		for EL1525K (3)	EP1520N-10
4	Clutch Adjusting Ring	EP4007N-582	35	Gear Head Pinion Gear	
5	Indicator Ring	EP4007N-682		for EL1512K and EL1525K	EP1510N-17
6	Bit Retainer Retaining Ring (Front) (for models			for ET4011K	EP4007N-17
	ending in K only)	EP4007N-683		for EL2616K	EP2612N-17
7	Bit Retainer Collar (for models ending in K only)	EP4007N-585	36	Gear Case	
8	Bit Retainer Spring (for models ending K only)	EP4007N-931		for EL1512K	EP1510N-37
9	Bit Retainer Sleeve (for models ending in K only)	EP4007N-930		for all others	EP4007N-37
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			for EL1512K	EP1510N-18
	1S5, 2S3 or 2S5	ET4007N2S5-580		for ET4011K	EP4007N-18
	for all other models	EP4007N-580		for EL2616K	EP2612N-18
13	Front Shim	EL4007N-623		for EL1525K	EP2603N-18
14	Rear Shim	EL4007N-624	40	Fan Pilot Rod "G" (.385" long)	EP4007N-436
15	Clutch Spring Plate	EP4007N-623	41	Fan	EP4007N-52
16	Clutch Spring			for EL1525K	EL1525K-52
	for EL2616K	EP2607N-583		for all others	EP4007N-52
	for EL1512K	EP1510N-583	42	Motor Pilot Rod "J" (2.71" long)	EP4007N-437
	for EL1525K	EP1520N-583		Motor Assembly	
	for ET4011K	EP4007N-583		for EL1512K	EP1512K-A53
17	Taper Ring Retaining Ring	EP4007N-584		for EL1525K	EL1525K-A53
18	Taper Ring Assembly			for EL2616K and EL4011K	EP2616K-A53
	for EL1525K	EP1520N-588	43	Front End Plate	EP4007N-11
	for EL1512K and EL2616K	EP2607N-588	44	Motor Assembly Spring (2)	EP4007N-98
	for ET4011K	EP4007N-588	46	Field	
19	Bit Retaining Ball (.094" dia.) (2) (for models			for EL1512K	EP2607N-54
	ending in K only)	R000B-263		for all others	EP4007N-54
20	Pilot Cam Ball (.156" dia.) (2)	2U-696	47	Front Armature Bearing	EP4007N-24
21	Bit Holder Assembly	EP4007N-586	48	Armture	
22	Pilot	EP4007N-408		for EL1512K	EP1512K-53
23	Pilot Ball (.062" dia.)	EP4007N-422		for EL1525K	EP1525K-53
24	Cam Guide			for EL2616K and EL4011K	EP2616K-53
	for EL1525K	EP1520N-681	49	Rear Armature Bearing	EP4007N-22
	for all others	EP4007N-681	50	Rear End Plate	EP1512K-12
25	Cam Guide Ball (.156" dia.) (2)	2U-696	51	Brush Assembly (includes 10 pieces)	EP1512K-BP
26	Cam Guide Bearing Ball (23) (.078" dia.)		52	Brush Cap (2)	EP4007N-25
	for EL1525K	EL1520N-510	54	Adjusting Screw Nut	EP4007N-593
27	Cam		55	Pilot Rod Adjusting Screw	EP4007N-592
	for ET4011K	EP4007N-581	56	Pilot Rod "D"	EP4007N-438
	for all others	EP1510N-581	57	Pilot Rod Spring	EP4007N-595
28	Cam Roller (2)	EP4007N-587	58	Microswitch Circuit Board	ET4007N-220
29	Spindle Washer		59	Switch Plate	ET4007N-221
	for EL1525K	EP1520N-509	60	Shut-off Switch	EP4007N-223
	for all others	EP4007N-509	61	Start Switch	ET4007N-222
30	Spindle Bearing	EP4007N-510	62	Switch Screw (12mm) (4)	EP4007N-224
31	Spindle/Gear Head (2)		63	Switch Base Screw (5mm) (2)	EP4007N-226
	for EL1512K	EP2607N-216	*	Wire Assembly	EP1512K-45
	for EL2616K	EP2612N-216	65	Switch Base Spacer (2)	EP4007N-225
	for ET4011K	EP4007N-216	66	Insulating Film	EP4007N-227
32	Gear Head (for EL1525K)	EP1520N-216	67	Brush Light Circuit Board	EP1512K-228
33	Gear Head Spacer (for EL1525K)	EP1520N-108		Reverse Switch Circuit Board Assembly	E4011K-A229
34	Planet Gear		69	Reverse Switch Cirucit Board	EP4004E-229
	for EL1512K (6)	EP1510N-10	70	Reverse Switch	EP4007N-329

* Not illustrated.

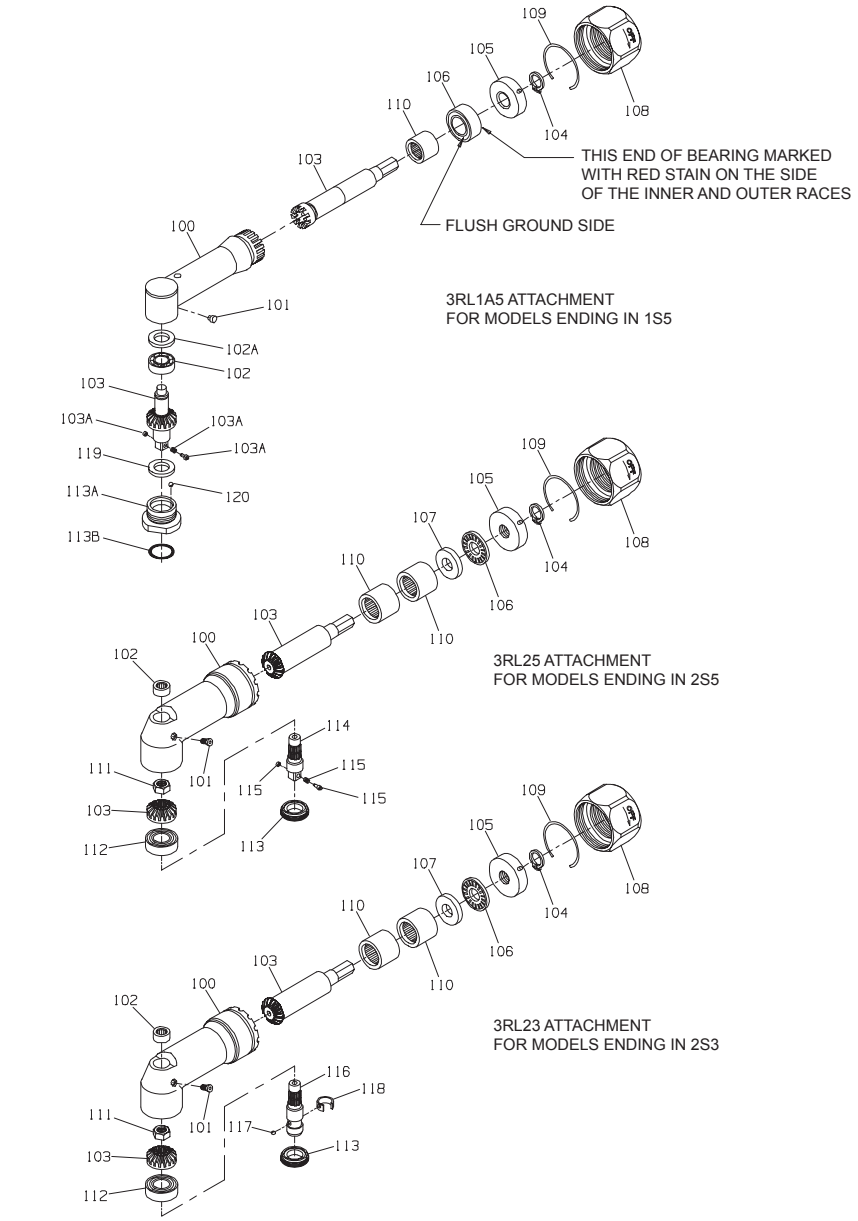
EL, EP and ET Electric Screwdriver Parts List

Item	Part Description	Part Number
*	Reverse Switch Rocker	EP4007N-330
71	Capacitor	EP4007N-230
73	Receptacle Assembly	EP1512K-44
75A	Housing Assembly	
	for EL1512K	EL1512K-A40
	for EL2616K	EL2616K-A40
	for ET4011K	EL4011K-A40
	for EL1525K	EL1525K-A40
76	Throttle Lever	EL4007N-273
77	Throttle Spring	EL4007N-274
78	Throttle Lever Pin	EL4007N-275
80	Brush Light Cover	EP4007N-45
81	Nameplate	
	for EL1512K	EL1512K-301
	for EL2616K	EL2616K-301
	for ET4011K	EL4011K-301
	for EL1525K	EL1525K-301
82	Warning Label	EP4004E-99
83	Housing Screw (package of 10)	EP4007N-41

Item	Part Description	Part Number
84	Power Cord	EP1512K-239
85	Angle Head Coupling (for models ending in 1S5, 2S3 or 2S5 only)	EL4007N2S5-AHC
*	Microswitch Adjusting Wrench Package	ES60T-MSW
*	Pistol Grip Assembly	EP4007N-48
*	Switch Adjustment Gauge (for high torque models)	EP1510N-SG
*	Gear Case Jig (for high torque models)	EP1510N-J37
*	Hardware Package (includes illustrated items 6, 10, 17, 19[2], 44[2], 52[2], 54, 55, 62[4], 63[2], 66 and 83	EL4007N-HP
	Maintenance Label	
*	English	EP4007N-302
	French	EP4007N-302F
	German	EP4007N-302G
	Spanish	EP4007N-302S
	Italian	EP4007N-302I
*	Extension Cord (2 m.l.)	EC29-249-2

* Not illustrated.

EL, EP and ET Angle Attachments Exploded Diagram



(Dwg. TPA1514)

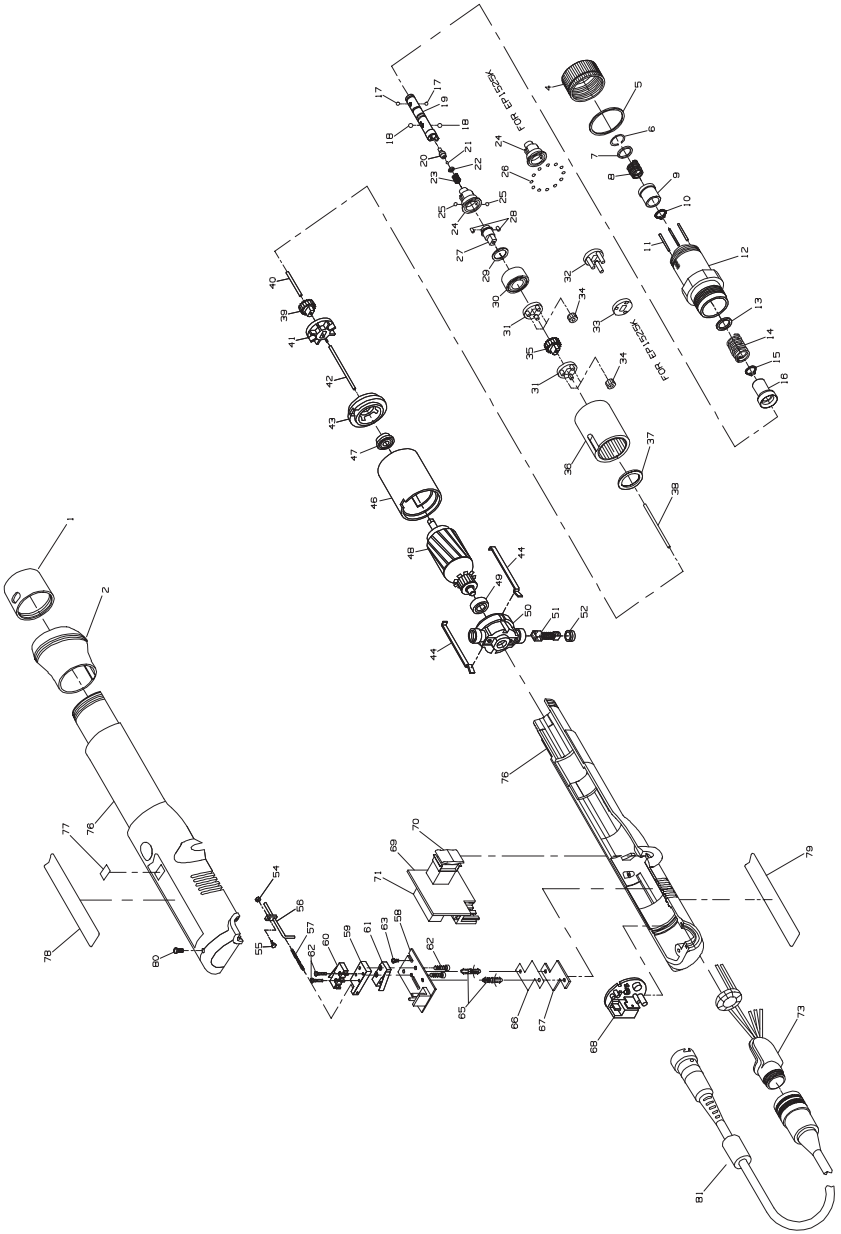
EL, EP and ET Angle Attachments Parts List

Item	Part Description	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	D0F9-879	D059-879	D0F9-879
102	Spindle Upper Bearing	---	120A4-603	120A4-603
102	Spindle Upper 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 Seal	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-A531	---	---
113B	Angle Housing Cap Seal	3RL1A-513	---	---
114	1/4" Square Drive 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 (.125" diameter)	---	AV1-225	---
118	Bit Retaining Spring	---	102A60-241	---
119	Ball Race	3RL1A-532	---	---
120	Steel Ball (1/6" 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 (pair or set) of each part indicated by a (†) for every four tools in service.

EL, EP and ET Electric Screwdriver Exploded Diagram



(Dwg. TPA1529)

EL, EP and ET Electric Screwdriver Parts List

Item	Part Description	Part Number
1	Retainer Coupling	EP4007N-125
2	Slanted Flange (standard)	EP4007N-124
*	Straight Flange (optional)	EP4007N-123
4	Clutch Adjusting Ring	EP4007N-582
5	Indicator Ring	EP4007N-682
6	Bit Retainer Retaining Ring (Front)	EP4007N-683
7	Bit Retainer Collar	EP4007N-585
8	Bit Retainer Spring	EP4007N-931
9	Bit Retainer Sleeve	EP4007N-930
10	Bit Retainer Retaining Ring	EP4007N-584
11	Clutch Adjusting Pin (3)	EP4007N-416
12	Clutch Housing Assembly	EP4007N-580
13	Clutch Spring Plate	EP4007N-623
14	Clutch Spring	
	for EP4011K	EP4007N-583
	for EP2616K	EP2607N-583
	for EP1525K	EP1520N-583
	for EP1512K	EP4007N-583
15	Taper Ring Retaining Ring	EP4007N-584
16	Taper Ring Assembly	
	for EP4011K	EP4007N-588
	for EP1525K	EP1520N-588
	for EP2616K and EP1512K	EP2607N-588
17	Bit Retaining Ball (.094" dia.) (2)	R000B-263
18	Pilot Cam Ball (2) (.156" dia.) (4)	2U-696
19	Bit Holder Assembly	EP4007N-586
20	Pilot	EP4007N-408
21	Pilot Ball (.062" dia.)	EP4007N-422
22	Pilot Push Spring Washer	EP4007N-421
23	Pilot Push Spring	EP4007N-420
24	Cam Guide	
	for EP1525K	EP1520N-681
	for all others	EP4007N-681
25	Cam Guide Ball (2) (.156" dia.)	2U-696
26	Cam Guide Bearing Ball (23) (for EP1525K)	EP1520N-510
27	Cam	
	for EP4011K	EP4007N-581
	for all others	EP1510N-581
28	Cam Roller (2)	EP4007N-587
29	Spindle Washer	
	for EP1525K	EP1520N-509
	for all others	EP4007N-509
30	Spindle Bearing	EP4007N-510
31	Spindle/Gear Head (2)	
	for EP1512K	EP2607N-216
	for EP2616K	EP2612N-216
	for EP4011K	EP4007N-216
32	Gear Head (for EP1525K)	EP1520N-216
33	Gear Head Spacer (for EP1525K)	EP1520N-108
34	Planet Gear	
	for EP1512K	EP1510N-10
	for EP26016K	EP2612N-10
	for EP4011K	EP4007N-10
	for EP2616K (3)	EP1520N-10
35	Gear Head Pinion Gear	
	for EP1512K and EP1525K	EP1510N-17
	for EP4011K	EP4007N-17
	for EP2616K	EP2612N-17
36	Gear Case	
	for EP1512K	EP1510N-37
	for all others	EP4007N-37
37	Gear Case Shield	EP4007N-207
38	Clutch Pilot Rod "I" (2.26" long)	EP4007N-435
39	Fan Pinion Gear	
	for EP1512K	EP1510N-18
	for EP4011K	EP4007N-18
	for EP2616K	EP2612N-18
	for EP1525K	EP2603N-18
40	Fan Pilot Rod "G" (.385" long)	EP4007N-436
41	Fan	EP4007N-52
	for EP1525K	EL1525K-52
	for all others	EP4007N-52
42	Motor Pilot Rod "J" (2.71" long)	EP4007N-437
	Motor Assembly	
	for EP1512K	EP1512K-A53
	for EP1525K	EP1525K-A53
	for all others	EP2616K-A53
43	Front End Plate	EP4007N-11
44	Motor Assembly Spring (2)	EP4007N-98
46	Field	
	for EP1512K	EP2607N-54
	for all others	EP4007N-54
47	Front Armature Bearing	EP4007N-24
48	Armature	
	for EP1512K	EP1512K-53
	for EP1525K	EP1525K-53
	for EP2616K and EP4011K	EP2616K-53
49	Rear Armature Bearing	EP4007N-22
50	Rear End Plate	EP4007N-12
51	Brush Assembly (includes 10 pieces)	EP1512K-BP
52	Brush Cap (2)	EP4007N-25
54	Adjusting Screw Nut	EP4007N-593
55	Pilot Rod Adjusting Screw	EP4007N-592
56	Switch Pilot Rod "D"	EP4007N-438
57	Pilot Rod Spring	EP4007N-595
58	Microswitch Circuit Board	EP4007N-220
59	Switch Plate	EP4007N-221
60	Shut-off Switch	EP4007N-223
61	Start Switch	EP4007N-222
62	Switch Screw (12 mm) (4)	EP4007N-224
63	Switch Base Screw (5 mm) (2)	EP4007N-226
*	Wire Assembly	EP1512K-45
65	Switch Base Spacer (2)	EP4007N-225
66	Insulating Film	EP4007N-227

* Not illustrated.

EL, EP and ET Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
67	Brush Light Circuit Board	EP1512K-228	79	Warning Label	EP4004E-99
	Reverse Switch Circuit Board Assembly	EP4011K-A229	80	Housing Screw (package of 10)	EP4007N-41
69	Reverse Switch Circuit Board	EP4004E-229	81	Power Cord	EP1512K-239
70	Reverse Switch	EP4007N-329	*	Microswitch Adjusting Wrench Package	ES60T-MSW
71	Capacitor	EP4007N-230	*	Pistol Grip Assembly	EP4007N-48
73	Receptacle Assembly	EP1512K-44	*	Extension Cord	EC29-249-2
	Housing Assembly		*	Switch Adjustment Gauge (for high torque	
	for EP1512K	EP1512K-A40		models)	EP1510N-SG
	for EP2616K	EP2612K-A40		Gear Case Jig (for high torque models)	EP1510N-J37
	for EP4011K	EP4011K-A40	*	Hardware Package (includes illustrated items	
	for EP1525K	EP1525K-A40		6, 10, 15, 17 [2], 44 [2], 52 [2], 54, 55,	
76	Housing Package	EP4007N-40		62 [4], 63 [2], 66 and 80	EP4007N-HP
77	Brush Light Cover	EP4007N-45	*	Maintenance Label	
78	Nameplate			English	EP4007N-302
	for EP1512K	EP1512K-301		French	EP4007N-302F
	for EP2616K	EP2616K-301		German	EP4007N-302G
	for EP4011K	EP4016K-301		Spanish	EP4007N-302S
	for EP1525K	EP1525k-301		Italian	EP4007N-302I

* Not illustrated.

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:
Electric Screwdrivers Product Safety Information Manual 16573685,
Electric Screwdrivers Product Information Manual 16578676.
Elec Screwdrivers Maintenance Information Manual 16575334.

Manuals can be downloaded from www.irtools.com.

Notes

Notes



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