



Form 16574634
Edition 1
April 2005

Electrical Screwdrivers

EL, EP and ET 230V Series

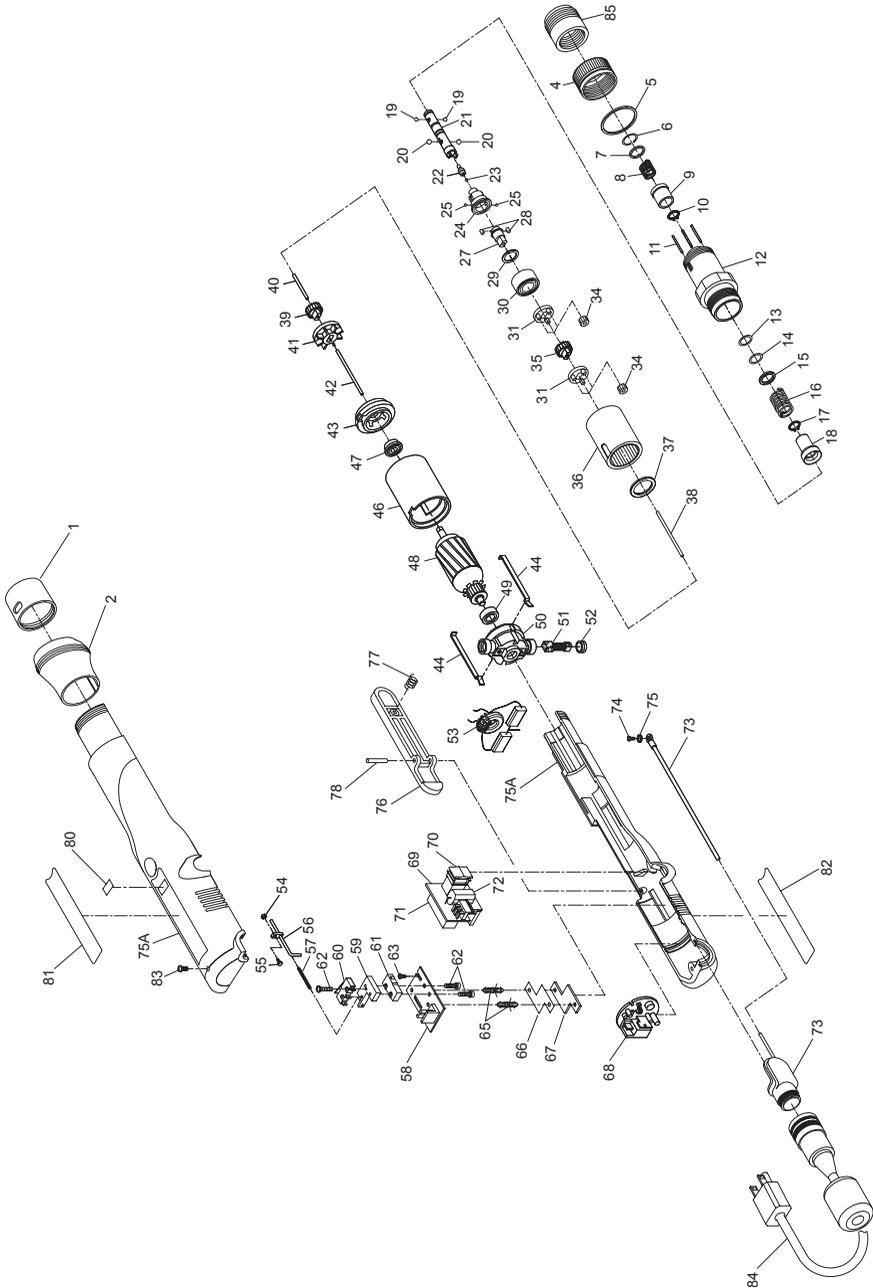
Parts Information



Save These Instructions



EL1510E, EL2607E and ET4004E Electric Screwdriver Exploded Diagram



(Dwg.TPA1519-2)

EL1510E, EL2607E and ET4004E Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Retainer Coupling	EP4007N-125	38	Clutch Pilot Rod "I" (2.26" long)	EP4007N-435
2	Slanted Flange (Standard on 1510E and 2607E)	EP4007N-124	39	Fan Pinion Gear	
*	Straight Flange (Standard on 4004E)	EP4007N-123		for EL1510E	EP1510N-18
4	Clutch Adjusting Ring	EP4007N-582		for ET4004E	EP2603N-18
5	Indicator Ring	EP4007N-682		for EL2607E	EP2607N-18
6	Bit Retainer Retaining Ring (Front) (for models ending in E only)	EP4007N-683	40	Fan Pilot Rod "G" (.385" long)	EP4007N-436
7	Bit Retainer Collar (for models ending in E only)	EP4007N-585	41	Fan	EP4007N-52
8	Bit Retainer Spring (for models ending in E only)	EP4007N-931	42	Motor Pilot Rod "J" (2.71" long)	EP4007N-437
9	Bit Retainer Sleeve (for models ending in E only)	EP4007N-930		Motor Assembly	
10	Bit Retainer Retaining Ring	EP4007N-584		for EL1510E, EL2607E and ET4004E	EP2607E-A53
11	Clutch Adjusting Pin (3)	EP4007N-416	43	Front End Plate	EP4007N-11
12	Clutch Housing Assembly		44	Motor Assembly Spring (2)	EP4007N-98
	for models ending in 1S5, 2S3 or 2S5	ET4007N2S5-580	46	Field	
	for all other models	EP4007N-580		for EL1510E, EL2607E and ET4004E	EP2607N-54
13	Front Shim	EL4007N-623	47	Front Armature Bearing	EP4007N-24
14	Rear Shim	EL4007N-624	48	Armature	
15	Clutch Spring Plate	EP4007N-623	49	for EL1510E, EL2607E and ET4004E	EP2607E-53
16	Clutch Spring		50	Rear Armature Bearing	EP4007N-22
	for EL1510E	EP1510N-583	51	Rear End Plate	EP4004E-12
	for EL2607E	EP2607N-583	52	Brush Assembly (includes 10 pieces)	EP4004E-BP
	for ET4004E	EP4007N-583	53	Brush Cap (2)	EP4007N-25
17	Taper Ring Retaining Ring	EP4007N-584	54	Motor Ring Coil Assembly	EP4004E-232
18	Taper Ring Assembly		55	Adjusting Screw Nut	EP4007N-593
	for EL2607E, EL1510E and ET4004E	EP2607N-588	56	Pilot Rod Adjusting Screw	EP4007N-592
19	Bit Retaining Ball (.094" dia.) (2) (for models ending in N only)	R000B-263	57	Pilot Rod "D"	EP4007N-438
20	Pilot Cam Ball (.156" dia.) (4)	2U-696	58	Pilot Rod Spring	EP4007N-595
21	Bit Holder Assembly	EP4007N-586	59	Microswitch Circuit Board	ET4004E-220
22	Pilot	EP4007N-408	60	Switch Plate	ET4007N-221
23	Pilot Ball (.062" dia.)	EP4007N-422	61	Shut-off Switch	EP4007N-223
24	Cam Guide	EP4007N-681	62	Start Switch	ET4007N-222
25	Cam Guide Ball (.156" dia.)	2U-696	63	Switch Screw (12mm) (4)	EP4007N-224
27	Cam		64	Switch Base Screw (5mm) (2)	EP4007N-226
	for ET4004E	EP4007N-581	65	Switch Base Spacer (2)	EP4007N-225
	for all others	EP1510N-581	66	Insulating Film	EP4007N-227
28	Cam Roller (2)	EP4007N-587	67	Brush Light Circuit Board	EP4004E-228
29	Spindle Washer	EP4007N-509	68	Controller Assembly	EP4004E-424
30	Spindle Bearing	EP4007N-510		Reverse Switch Circuit Board Assembly	EP4004E-A229
31	Spindle/Gear Head (2)	EP2607N-216	69	Reverse Switch Circuit Board	EP4004E-229
34	Planet Gear		70	Reverse Switch	EP4007N-329
	for EL1510E (6)	EP1510N-10	*	Reverse Switch Rocker	EP4007N-330
	for ET4004E (6)	EP1520N-10	71	Capacitor	EP4007N-230
	for EL2607E (6)	EP2607N-10	72	Resistor	EP4004E-231
35	Gear Head Pinion Gear		73	Receptacle Assembly	EP4004E-44A
	for EL1510E	EP1510N-17	74	Ground Screw	EP4007N-42
	for ET4004E	EP2603N-17	75	Ground Screw Washer	EP4007N-43
	for EL2607E	EP2607N-17	75A	Housing Assembly	
36	Gear Case			for EL1510E	EL1510E-A40
	for EL1510E	EP1510N-37		for EL2607E	EL2607E-A40
	for ET4004E	EP4007N-37		for ET4004E	EL4004E-A40
	for EL2607E	EP2607N-37	76	Throttle Lever	EL4007N-273
37	Gear Case Shield	EP4007N-207	77	Throttle Spring	EP4007N-274
			78	Throttle Lever Pin	EL4007N-275
			80	Brush Light Cover	EP4007N-45
			81	Nameplate	
				for EL1510E	EL1510E-301
				for EL2607E	EL2607E-301
				for ET4004E	EL4004E-301
			82	Warning Label	EP4004E-99

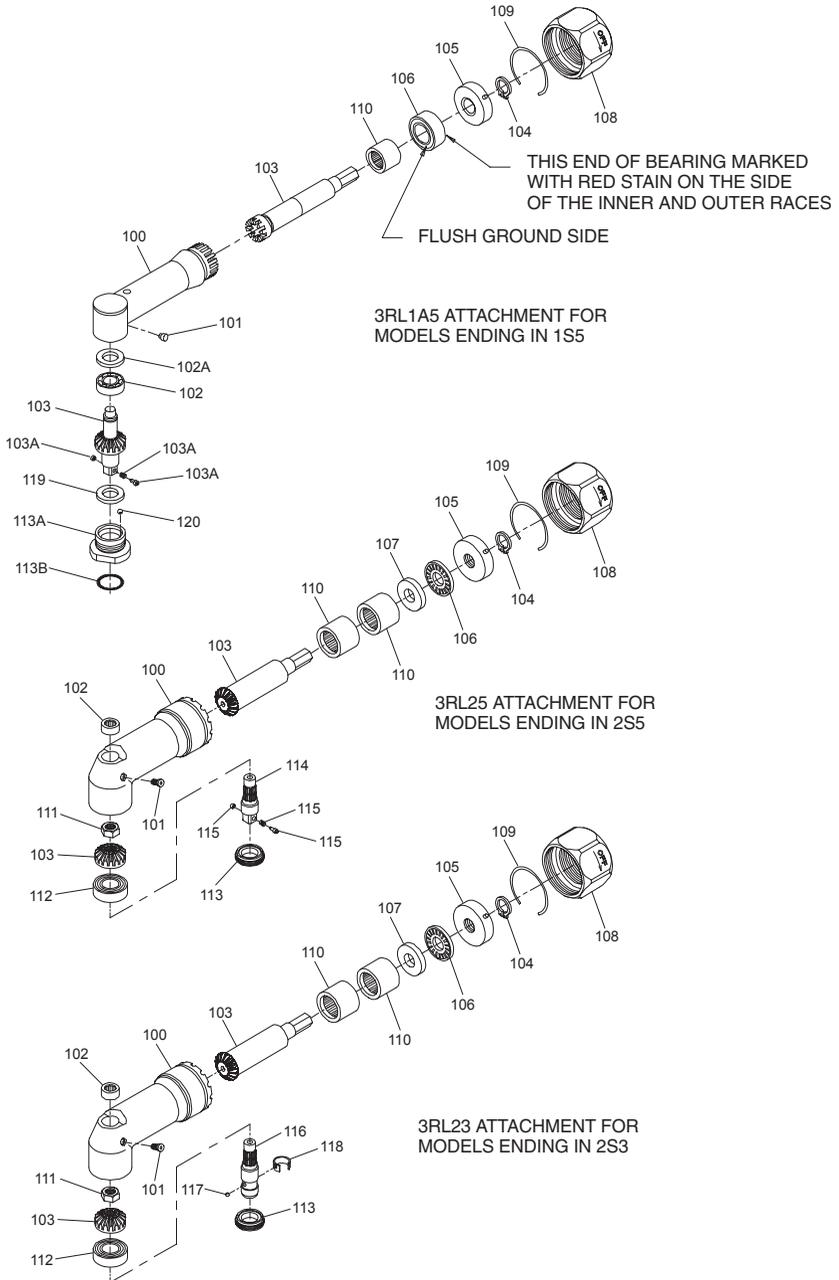
* Not illustrated.

EL1510E, EL2607E and ET4004E Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
83	Housing Screw (package of 10)	EP4007N-41	*	Switch Adjustment Gauge (for high torque models)	EP1510N-SG
84	Power Cord				
	3 m with VDE plug	EP4004E-239A	*	Gear Case Jig (for high torque models)	EP1510N-J37
	3 m with UK plug	EP4004E-239AU	*	Hardware Package (includes illustrated items 6, 10, 17, 19 [2], 44 [2], 52 [2], 54, 55, 62 [4], 63 [2], 66, 74, 75, 77, 78 and 83)	EL4007N-HP
	Noise Suppressor	EP4007N-240			
85	Angle Head Coupling (for models ending in 1S5, 2S3 or 2S5 only)	EL4007N2S5H-AHC		Maintenance Label	
*	Torque Adjusting Wrench	EP4007N-516	*	English	EP4007N-302
*	Suspension Bail			French	EP4007N-302F
	for ET4004E (fits Pistol Grip)	EP4007N-366		German	EP4007N-302G
*	Microswitch Adjusting Wrench Package	ES60T-MSW		Spanish	EP4007N-302S
*	Pistol Grip Assembly	EP4007N-48		Italian	EP4007N-302I
*	Test Brush (230 V)	EP4007N-TB230		for all others (fits tool)	EP4007N-365

* Not illustrated.

**Series 3 Angle Attachments for EL1510E1S5, EL1510E2S3, EL1510E2S5, ET4004E2S3 and ET4004E2S5
Exploded Diagram**



(Dwg. TPA1514)

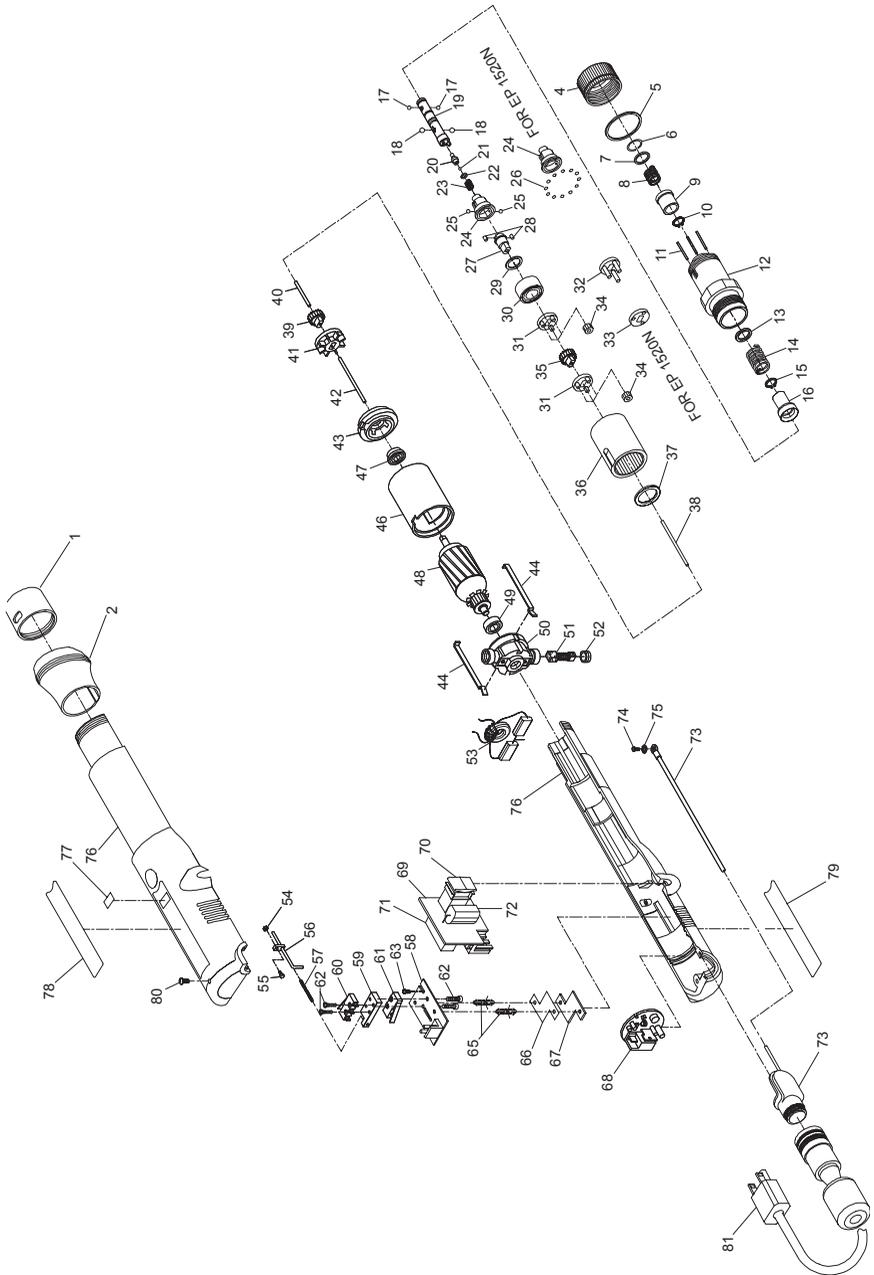
**Series 3 Angle Attachments for EL1510E1S5, EL1510E2S3, EL1510E2S5, ET4004E2S3 and ET4004E2S5
Parts List**

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 (1/16" 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 (pair or set) of each part indicated by a bullet (•) for every four tools in service.

EP1510E, EP2607E and EP4004E Electric Screwdriver Exploded Diagram



(Dwg. TPA1520-2)

EP1510E, EP2607E and EP4004E Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Retainer Coupling	EP4007N-125	42	Motor Pilot Rod "J" (2.71" long)	EP4007N-437
2	Slanted Flange	EP4007N-124		Motor Assembly	
*	Straight Flange	EP4007N-123		for EP1510E, EP2607E and EP4004E	EP2607E-A53
4	Clutch Adjusting Ring	EP4007N-582	43	Front End Plate	EP4007N-11
5	Indicator Ring	EP4007N-682	44	Motor Assembly Spring (2)	EP4007N-98
6	Bit Retainer Retaining Ring (Front)	EP4007N-683	46	Field	
7	Bit Retainer Collar	EP4007N-585		for EP1510E, EP2607E and EP4004E	EP2607N-54
8	Bit Retainer Spring	EP4007N-931	47	Front Armature Bearing	EP4007N-24
9	Bit Retainer Sleeve	EP4007N-930	48	Armature	
10	Bit Retainer Retaining Ring	EP4007N-584		for EP1510E, EP2607E and EP4004E	EP4004E-53
11	Clutch Adjusting Pin (3)	EP4007N-416	49	Rear Armature Bearing	EP4007N-22
12	Clutch Housing Assembly	EP4007N-580	50	Rear End Plate	EP4004E-12
13	Clutch Spring Plate	EP4007N-623	51	Brush Assembly (includes 10 pieces)	EP4004E-BP
14	Clutch Spring		52	Brush Cap (2)	EP4007N-25
	for EP1510E	EP1510N-583	53	Motor Ring Coil Assembly	EP4004E-232
	for EP2607E	EP2607N-583	54	Adjusting Screw Nut	EP4007N-593
	for EP4004E	EP4007N-583	55	Pilot Rod Adjusting Screw	EP4007N-592
15	Taper Ring Retaining Ring	EP4007N-584	56	Switch Pilot Rod "D"	EP4007N-438
16	Taper Ring Assembly	EP2607N-588	57	Pilot Rod Spring	EP4007N-595
17	Bit Retaining Ball (.094" dia.) (2)	R000B-263	58	Microswitch Circuit Board	EP4004E-220
18	Pilot Cam Ball (.156" dia.) (4)	2U-696	59	Switch Plate	EP4007N-221
19	Bit Holder Assembly	EP4007N-586	60	Shut-off Switch	EP4007N-586
20	Pilot	EP4007N-408	61	Start Switch	EP4007N-222
21	Pilot Ball (.062" dia.)	EP4007N-422	62	Switch Screw (12 mm) (4)	EP4007N-224
22	Pilot Push Spring Washer	EP4007N-421	63	Switch Base Screw (5 mm) (2)	EP4007N-226
23	Pilot Push Spring	EP4007N-420	65	Switch Base Spacer (2)	EP4007N-225
24	Cam Guide	EP4007N-681	66	Insulating Film	EP4007N-227
25	Cam Guide Ball (.156" dia.)	2U-696	67	Brush Light Circuit Board	EP4004E-228
27	Cam		68	Controller Assembly	EP4004E-424
	EP4004E	EP4007N-581		Reverse Switch Circuit Board Assembly	EP4004E-A229
	for EP1510E and EP2607E	EP1510N-581	69	Reverse Switch Circuit Board	EP4004E-229
28	Cam Roller (2)	EP4007N-587	70	Reverse Switch	EP4007N-329
29	Spindle Washer	EP2607N-509	*	Reverse Switch Rocker	EP4007N-330
30	Spindle Bearing	EP4007N-510	71	Capacitor	EP4007N-230
31	Spindle/Gear Head (2)	EP2607N-216	72	Resistor	EP4004E-231
34	Planet Gear		73	Receptacle Assembly	EP4004E-44A
	for EP1510E (6)	EP1510N-10	74	Ground Screw	EP4007N-42
	for EP2607E (6)	EP2607N-10	75	Ground Screw Washer	EP4007N-43
	for EP4004E (6)	EP2603N-10		Housing Assembly	
35	Gear Head Pinion Gear			for EP1510E	EP1510E-A40
	for EP1510E	EP1510N-17		for EP2607E	EP2607E-A40
	for EP4004E	EP2603N-17		for EP4004E	EP4004E-A40
	for EP2607E	EP2607N-17	76	Housing Package	EP4007N-40
36	Gear Case		77	Brush Light Cover	EP4007N-45
	for EP1510E	EP1510N-37	78	Nameplate	
	for EP4007E	EP4007N-37		for EP1510E	EP1510E-301
	for EP2607E	EP2607N-37		for EP2607E	EP2607E-301
37	Gear Case Shield	EP4007N-207		for EP4004E	EP4004E-301
38	Clutch Pilot Rod "I" (.226" long)	EP4007N-435	79	Warning Label	EP4004E-99
39	Fan Pinion Gear		80	Housing Screw (package of 10)	EP4007N-41
	for EP1510E	EP1510N-18	81	Power Cord	
	for EP4004E	EP2603N-18		3 m long with VDE plug	EP4004E-239A
	for EP2607E	EP2607N-18		3 m long with UK plug	EP4004E-239AU
40	Fan Pilot Rod "G" (.385" long)	EP4007N-436		Noise Suppressor	EP4007N-240
41	Fan	EP4007N-52	*	Torque Adjusting Wrench	EP4007N-516

* Not illustrated.

EP1510E, EP2607E and EP4004E Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
*	Suspension Bail		*	Hardware Package (includes illustrated items 6, 10, 15, 17 [2], 44 [2], 52 [2], 54, 55, 62 [4], 63 [2], 66, 74, 75 and 80)	EP4007N-HP
	for EP4004E (fits Pistol Grip)	EP4007N-366			
	for EP1510E and EP2607E (fits tool)	EP4007N-365	*		
*	Microswitch Adjusting Wrench Package	ES60T-MSW		English	EP4007N-302
*	Pistol Grip Assembly	EP4007N-48		French	EP4007N-302F
*	Test Brush (230 V)	EP4004E-TP230		German	EP4007N-302G
*	Switch Adjustment Gauge (for high torque models)	EP1510N-SG		Spanish	EP4007N-302S
					3 m long with VDE plug
	Gear Case Jig (for high torque models)	EP1510N-J37		3 m long with UK plug	EP4004U-239

* 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:
 Electrical Screwdrivers Product Safety Information Manual 16573685,
 Electrical Screwdrivers Product Information Manual 16578650,
 Electrical Screwdrivers Maintenance Information Manual 16575300

Manuals can be downloaded from www.irttools.com.

Notes



www.irttools.com

© 2005 Ingersoll-Rand Company