



Form 16574675
Edition 1
April 2005

Electrical Screwdrivers

ELS, EPS and ETS 34V Series

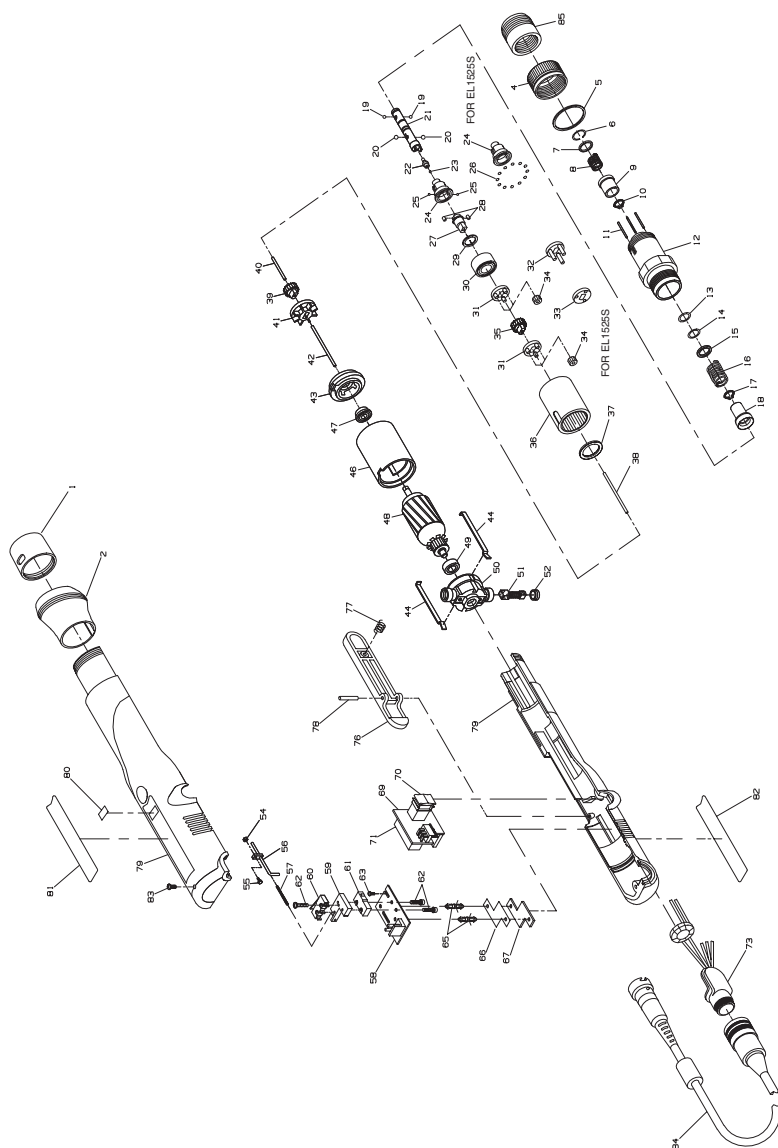
Parts Information



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EL1512S, EL1525S, EL2608S, EL2616S, ET4005S and ET4011S Electric Screwdriver Exploded Diagram



(Dwg. TPA1578)

EL1512S, EL1525S, EL2608S, EL2616S, ET4005S and ET4011S Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Retainer Coupling	EP4007N-125	31	Spindle/Gear Head	
2	Slanted Flange (standard)	EP4007N-124	+	for EL1512S (2), EL2608S	
*	Straight Flange (optional)	EP4007N-123		(2) and ET4005S (1)	EP2607N-216
4	Clutch Adjusting Ring	EP4007N-582		for EL2616S (2)	EP2612N-216
5	Indicator Ring	EP4007N-682		for ET4011S (2)	EP4007N-216
6	Bit Retainer Retaining Ring (Front) (for models ending in S only)	EP4007N-683	+	for ET4005S (1)	EP4005S-216
7	Bit Retainer Collar (for models ending in S only)	EP4007N-585	32	Gear Head (for EL1525S)	EP1520N-216
8	Bit Retainer Spring (for models ending in S only)	EP4007N-931	33	Gear Head Spacer (for EL1525S)	EP1520N-108
9	Bit Retainer Sleeve (for models ending in S only)	EP4007N-930	34	Planet Gear	
10	Bit Retainer Retaining Ring	EP4007N-584		for EL1512S (6)	EP1510N-10
11	Clutch Adjusting Pin (3)	EP4007N-416		for EL1525S (3) and ET4011S (6)	EP1520N-10
12	Clutch Housing Assembly			for EL2608S (6)	EP2608S-10
	for models ending in 1S5, 2S3 or 2S5	ET4007N2S5-580		for EL2616S (6)	EP2612N-10
	for all other models	EP4007N-580		for ET4005S (6)	EP1520N-10
13	Front Shim	EL4007N-623	35	Gear Head Pinion Gear	
14	Rear Shim	EL4007N-624		for EL1512S and EL1525S	EP1510N-17
15	Clutch Spring Plate	EP4007N-623		for ET4011S	EP4007N-17
16	Clutch Spring			for ET4005S	EP4005S-17
	for EL1512S	EP1510N-583		for EL2616S	EP2612N-17
	for EL1525S	EP1520N-583	36	Gear Case	EP2608S-17
	for EL2608S and EL2616S	EP2607N-583		for EL1512S	EP1510N-37
	for ET4005S and ET4011S	EP4007N-583		for EL2608S	EP2608S-37
17	Taper Ring Retaining Ring	EP4007N-584		for all others	EP4007N-37
18	Taper Ring Assembly		37	Gear Case Shield	EP4007N-207
	for EL1525S	EP1520N-588	38	Clutch Pilot Rod "I" (2.26" long)	EP4007N-435
	for all others	EP1510N-588	39	Fan Pinion Gear	
	for ET4011S	EP4007N-588		for EL1512S	EP1510N-18
19	Bit Retaining Ball (.094" dia) (2) (for models ending in S only)	R000B-263		for ET4011S	EP4007N-18
20	Pilot Cam Ball (.156 dia) (2)	2U-696		for EL2608S	EP2608S-18
21	Bit Holder Assembly	EP4007N-586		for EL2616S	EP2612N-18
22	Pilot	EP4007N-408		for EL1525S and EL4005S	EP2603N-18
23	Pilot Ball (.062 dia)	EP4007N-422	40	Fan Pilot Rod "G" (.385" long)	EP4007N-436
24	Cam Guide		41	Fan	
	for EL1525S	EP1520N-681		for EL1525S	EL1525K-52
	for all others	EP4007N-681		for all others	EP4007N-52
25	Cam Guide Ball (.156 dia) (2)	2U-696	42	Motor Pilot Rod "J" (2.71" long)	EP4007N-437
26	Cam Guide Bearing Ball (23) (.078 dia)			Motor Assembly	
	for EL1525S	EL1520N-510		for EL1512S, EL2608S and ET4005S	EP1512K-A53
27	Cam			for EL1525S	EP1525K-A53
	for ET4011S and ET4005S	EP4007N-581		for EL2616S and EL4011S	EP2616K-A53
	for all others	EP1510N-581	43	Front End Plate	EP4007N-11
28	Cam Roller (2)	EP4007N-587	44	Motor Assembly Spring (2)	EP4007N-98
29	Spindle Washer		46	Field	
	for EL1525S	EP1520N-509		for EL1512S, EL2608S and ET4005S	EP2607N-54
	for all others	EP4007N-509		for all others	EP4007N-54
30	Spindle Bearing	EP4007N-510	47	Front Armature Bearing	EP4007N-24
			48	Armature	
				for EL1512S, EL2608S and ET4005S	EP1512K-53
				for EL1525S	EP1525K-53
				for EL2616S and EL4011S	EP2616K-53
			49	Rear Armature Bearing	EP4007N-22

* Not illustrated.

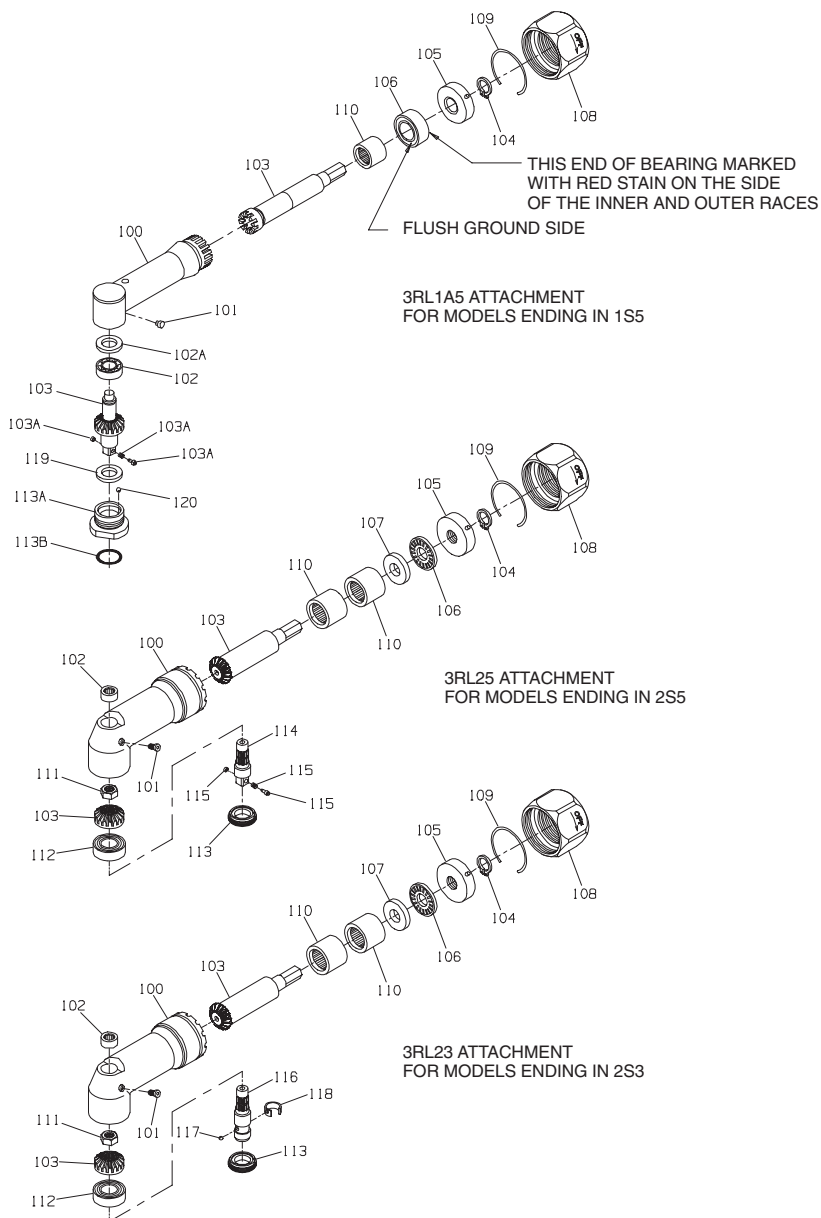
+ Model ET4005S uses two different Spindle/Gear Heads as indicated.

EL1512S, EL1525S, EL2608S, EL2616S, ET4005S and ET4011S Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
50	Rear End Plate	EP4007N-12	76	Throttle Lever	EL4007N-273
51	Brush Assembly (includes 10 pieces)	EP1512K-BP	77	Throttle Spring	EL4007N-274
52	Brush Cap (2)	EP4007N-25	78	Throttle Lever Pin	EL4007N-275
54	Adjusting Screw Nut	EP4007N-593	80	Brush Light Cover	EP4007N-45
55	Pilot Rod Adjusting Screw	EP4007N-592	81	Nameplate	
56	Pilot Rod "D"	EP4007N-438		for EL1512S	EL1512S-301
57	Pilot Rod Spring	EP4007N-595		for EL2608S	EL2608S-301
58	Microswitch Circuit Board	ET4007N-220		for EL2616S	EL2616S-301
59	Switch Plate	ET4007N-221		for ET4005S	ET4005S-301
60	Shut-off Switch	EP4007N-223		for ET4011S	EL4011S-301
61	Start Switch	ET4007N-222		for EL1525S	EL1525S-301
62	Switch Screw (12mm) (4)	EP4007N-224	82	Warning Label	EP4004E-99
63	Switch Base Screw (5mm) (2)	EP4007N-226	83	Housing Screw (package of 10)	EP4007N-41
*	Wire Assembly	EP1512K-45	84	Power Cord	EP1512S-239
65	Switch Base Spacer (2)	EP4007N-225	85	Angle Head Coupling (for models ending in 1S5, 2S3 or 2S5 only)	EL4007N2S5-AHC
66	Insulating Film	EP4007N-227	*	Microswitch Adjusting Wrench Package	ES60T-MSW
67	Brush Light Circuit Board	EP1512K-228	*	Pistol Grip Assembly	EP4007N-48
	Reverse Switch Circuit Board Assembly	E4011S-A229	*	Switch Adjustment Gauge (for high torque models)	EP1510N-SG
69	Reverse Switch Circuit Board	EP4004E-229	*	Gear Case Jig (for high torque models)	EP1510N-J37
70	Reverse Switch	EP4007N-329	*	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
*	Reverse Switch Rocker	EP4007N-330			
71	Capacitor	EP4007N-230			
73	Receptacle Assembly	EP1512S-44		Maintenance Label	
75A	Housing Assembly		*	English	EP4007N-302
	for EL1512S	EL1512S-A40		French	EP4007N-302F
	for EL2608S	EL2608S-A40		German	EP4007N-302G
	for EL2616S	EL2616S-A40		Spanish	EP4007N-302S
	for ET4005S	ET4005S-A40		Italian	EP4007N-302I
	for ET4011S	EL4011S-A40	*	Extension Cord (2 m.l.)	EC34S-249-2
	for EL1525S	EL1525S-A40			

* Not illustrated.

**Series 3 Angle Attachments for EL1525S1S5, EL1525S2S3, EL1525S2S5, ET4011S2S3 and ET4011S2S5
Exploded Diagram**



(Dwg. TPA1514)

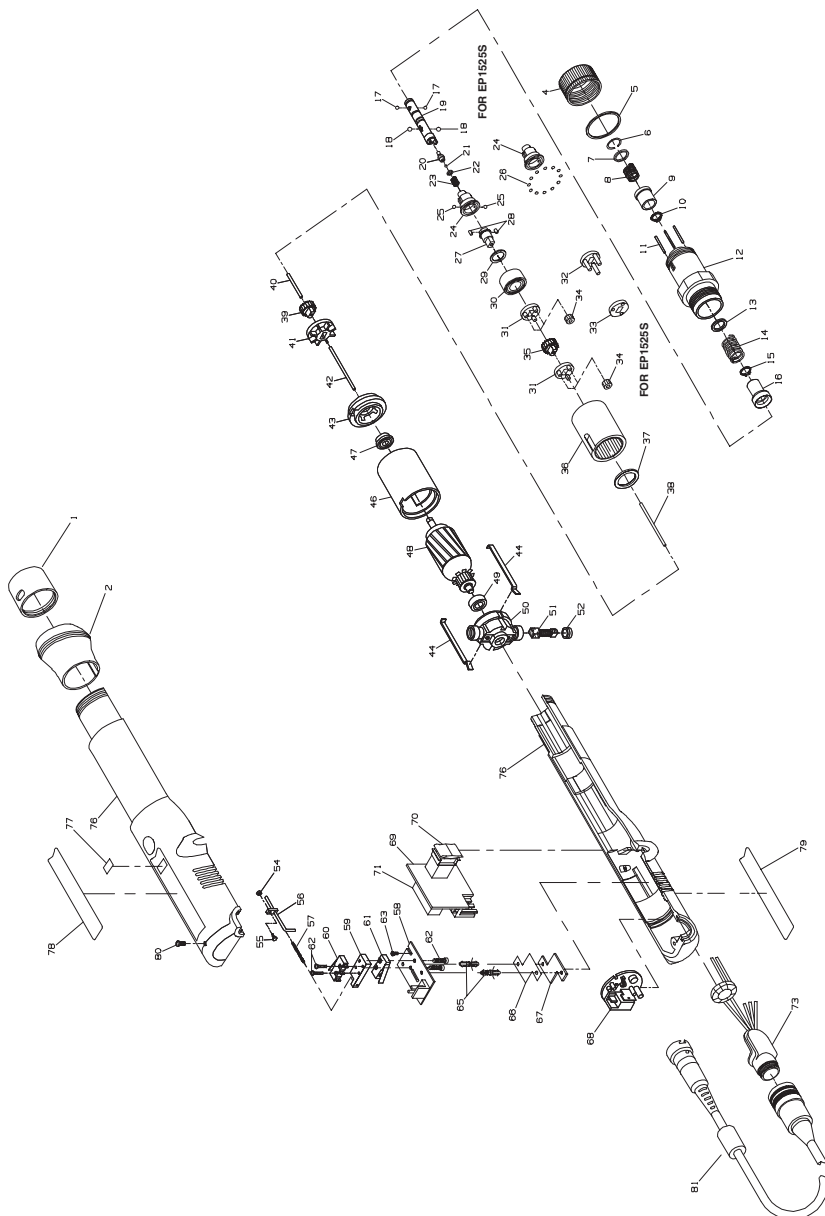
Series 3 Angle Attachments for EL1525S1S5, EL1525S2S3, EL1525S2S5, ET4011S2S3 and ET4011S2S5
Parts List

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-531	---	---
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 (†) for every four tools in service.

EP1512S, EP1525S, EP2608S, EP2616S, EP4005S and EP4011S Electric Screwdrivers
Exploded Diagram



(Dwg. TPA1579)

EP1512S, EP1525S, EP2608S, EP2616S, EP4005S and EP4011S 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)	EP4007N-124		for EP1512S and EP1525S	EP1510N-17
*	Straight Flange (optional)	EP4007N-123		for EP2608S and EP4005S	EP4005S-17
4	Clutch Adjusting Ring	EP4007N-582		for EP4011S	EP4007N-17
5	Indicator Ring	EP4007N-682		for EP2616S	EP2612N-17
6	Bit Retainer Retaining Ring (Front)	EP4007N-683	36	Gear Case	
7	Bit Retainer Collar	EP4007N-585		for EP1512S	EP1510N-37
8	Bit Retainer Spring	EP4007N-931		for EP2608S	EP2608S-37
9	Bit Retainer Sleeve	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	EP4007N-580	39	Fan Pinion Gear	
13	Clutch Spring Plate	EP4007N-623		for EP1512S	EP1510N-18
14	Clutch Spring			for EP4011S	EP4007N-18
	for EP1512S	EP1510N-583		for EP4005S	EP4005S-18
	for EP1525S	EP1520N-583		for EP2616S	EP2612N-18
	for EP2608S and EP2616S	EP2607N-583		for EP1525S and EP2608S	EP2603N-18
	for EP4005S and EP4011S	EP4007N-583	40	Fan Pilot Rod "G" (.385" long)	EP4007N-436
15	Taper Ring Retaining Ring	EP4007N-584	41	Fan	
16	Taper Ring Assembly			for EP1525S	EL1525K-52
	for EP4011S	EP4007N-588		for all others	EP4007N-52
	for EP1525S	EP1520N-588	42	Motor Pilot Rod "J" (2.71" long)	EP4007N-437
	for all others	EP1510N-588		Motor Assembly	
17	Bit Retaining Ball (.094" dia) (2)	R000B-263		for EP1512S, EP2608S, EP4005S	EP1512K-A53
18	Pilot Cam Ball (.156 dia) (4)	2U-696		for EP1525S	EP1525K-A53
19	Bit Holder Assembly	EP4007N-586		for EP2616S, EP4011S	EP2616K-A53
20	Pilot	EP4007N-408	43	Front End Plate	EP4007N-11
21	Pilot Ball (.062 dia)	EP4007N-422	44	Motor Assembly Spring (2)	EP4007N-98
22	Pilot Push Spring Washer	EP4007N-421	46	Field	
23	Pilot Push Spring	EP4007N-420		for EP1512S	EP2607N-54
24	Cam Guide			for all others	EP4007N-54
	for EP1525S	EP1520N-681	47	Front Armature Bearing	EP4007N-24
	for all others	EP4007N-681	48	Armature	
25	Cam Guide Ball (2) (.156 dia)	2U-696		for EP1512S, EP2608S, EP4005S	EP1512K-53
26	Cam Guide Bearing Ball (23) (for EP1525S)	EP1520N-510		for EP1525S	EP1525K-53
27	Cam			for EP2616S and EP4011S	EP2616K-53
	for EP4011S	EP4007N-581	49	Rear Armature Bearing	EP4007N-22
	for all others	EP1510N-581	50	Rear End Plate	EP4007N-12
28	Cam Roller (2)	EP4007N-587	51	Brush Assembly (includes 10 pieces)	EP1512K-BP
29	Spindle Washer		52	Brush Cap (2)	EP4007N-25
	for EP1525S	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 EP1512S (2), EP2608S (2) and EP4005S (1)	EP2607N-216	58	Microswitch Circuit Board	EP4007N-220
	for EP2616S (2)	EP2612N-216	59	Switch Plate	EP4007N-221
	for EP4011S (2)	EP4007N-216	60	Shut-off Switch	EP4007N-223
+	for EP4005S (1)	EP4005S-216	61	Start Switch	EP4007N-222
32	Gear Head (for EP1525S)	EP1520N-216	62	Switch Screw (12 mm) (4)	EP4007N-224
33	Gear Head Spacer (for EP1525S)	EP1520N-108	63	Switch Base Screw (5 mm) (2)	EP4007N-226
34	Planet Gear		*	Wire Assembly	EP1512K-45
	for EP1512S (6)	EP1510N-10	65	Switch Base Spacer (2)	EP4007N-225
	for EP1525S (3) and EP4011S (6)	EP1520N-10	66	Insulating Film	EP4007N-227
	for EP2608S (6)	EP2608S-10			
	for EP2616S (6)	EP2612N-10			
	for EP4005S (6)	EP1520N-10			

* Not illustrated.

+ Model EP4005S uses two different Spindle/Gear Heads as indicated.

EP1512S, EP1525S, EP2608S, EP2616S, EP4005S and EP4011S Electric Screwdriver Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
67	Brush Light Circuit Board	EP1512S-228		for EP4011S	EP4011S-301
	Reverse Switch Circuit Board Assembly	EP4011S-A229		for EP1525S	EP1525S-301
69	Reverse Switch Circuit Board	EP4004E-229	79	Warning Label	EP4004E-99
70	Reverse Switch	EP4007N-329	80	Housing Screw (package of 10)	EP4007N-41
*	Reverse Switch Rocker	EP4007N-330	81	Power Cord	EP1512S-239
71	Capacitor	EP4007N-230	*	Microswitch Adjusting Wrench Package	ES60T-MSW
73	Receptacle Assembly	EP1512S-44	*	Pistol Grip Assembly	EP4007N-48
	Housing Assembly		*	Extension Cord	EC34S-249-2
	for EP1512S	EP1512S-A40	*	Switch Adjustment Gauge (for high torque models)	EP1510N-SG
	for EP2608S	EP2608S-A40		Gear Case Jig (for high torque models)	EP1510N-J37
	for EP2616S	EP2616S-A40		Hardware Package (includes illustrated items 6, 10, 15, 17 [2], 44 [2], 52 [2], 54, 55, 62 [4], 63 [2], 66 and 80	EP4007N-HP
	for EP4005S	EP4005S-A40		Maintenance Label	
	for EP4011S	EP4011S-A40		English	EP4007N-302
	for EP1525S	EP1525S-A40		French	EP4007N-302F
76	Housing Package	EP4007N-40		German	EP4007N-302G
77	Brush Light Cover	EP4007N-45		Spanish	EP4007N-302S
78	Nameplate			Italian	EP4007N-302I
	for EP1512S	EP1512S-301			
	for EP2608S	EP2608S-301			
	for EP2616S	EP2616S-301			
	for EP4005S	EP4005S-301			

* 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 16578684.
 Electric Screwdrivers Maintenance Information Manual 16575342.

Manuals can be downloaded from www.irttools.com.



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