



45527751

Edition 1

May 2007

Electric Screwdrivers

ES 115V AC Series

Parts Information



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 **Ingersoll Rand**

Models ES60P, ES70P, ES80P, ES90P and ES100P Electric Screwdrivers Parts List

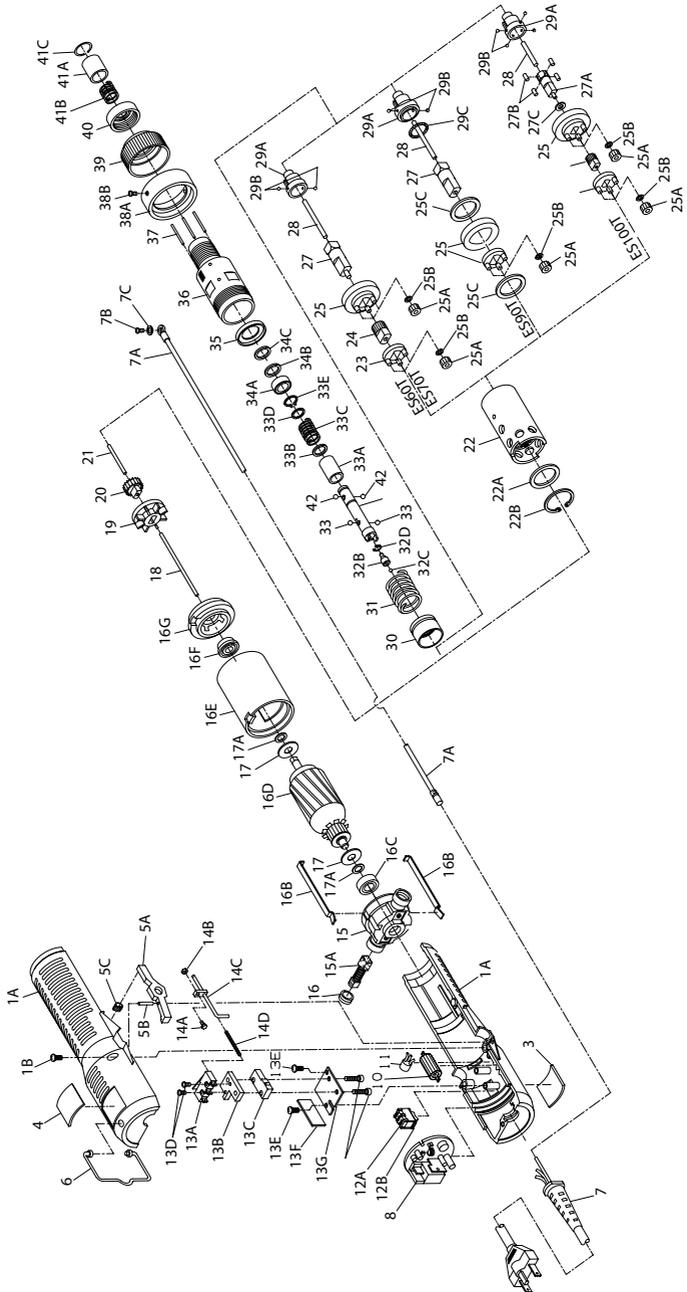
Item	Part Description	Part Number	Item	Part Description	Part Number
	Housing Package	ES60P-ULA40	16	Insulator (2)	
1A	Housing (includes right and left side)	--		for ES80P	ES80P-680
+ 1B	Housing Screw (3)	--		for all other models	ES80P-681
3	Warning Label	ES60T-99	16A	Washer (2)	
4	Nameplate			for ES80P	ES80P-682
	for model ES60P	ES60P-301		for all other models	ES80P-683
	for model ES70P	ES70P-301	*	Front End Plate Washer	ES60T-612
	for model ES80P	ES80P-301	*	Base Insulation Film Pack	ES60T-650
	for model ES90P	ES90P-301	17	Pilot Rod "F" (2.465" [62.7 mm] long)	ES60T-611
	for model ES100P	ES100P-301	18	Armature Fan	
5	Suspension Bail	ES60T-365		for model ES80P	ES80P-62
6	Cord Assembly	ES60T-UL239		for all other models	ES60T-62
	Ground Wire Package	ES80P-ULA154	19	Fan Sun Gear	
6A	Ground Wire	--		for model ES60P (16 teeth)	ES60T-610
6B	Ground Screw	--		for model ES70P (13 teeth)	ES70T-610
6C	Ground Washer	--		for model ES80P (23 teeth)	ES80P-610
7A	Control Base Package	ES60T-ULB616		for model ES90P (11 teeth)	ES90T-610
9	Resistor (R10)	ES60T-615		for model ES100P (11 teeth)	ES100P-610
10	Coil (L2)	ES60T-614	20	Pilot Rod "G" (.385" [10 mm] long)	ES60T-609
11A	Reverse Switch Assembly	ES60T-ULA666	21	Gear Case Assembly	
	Reverse Switch	ES60T-UL666		for model ES60P (44 teeth)	ES60T-37
11B	Reverse Switch Rocker	--		for model ES70P (47 teeth)	ES70P-37
	Switch Package	ES60P-A613		for model ES90P (49 teeth)	ES90T-37
12A	Micro Switch	--		for models ES80P and ES100P (49 teeth)	ES100P-37
12B	Switch Plate	--	21A	Gear Head Seat	--
12C	Micro Switch	--	21B	Gear Head Seat Retainer	--
12D	Pilot Screw (2)	ES60P-708	22	Gear Head Assembly	
12E	Switch Base Screw (2)	ES60P-729		for models ES60P, ES70P6 and ES100P	ES60T-A21
12F	Insulating Plate	--		for model ES80P (2)	ES80T-A216
15H	Bearing Washer (for ES80P only)	ES80P-141	23	Gear Head Sun Gear	
12G	Switch Base	--		for model ES60P (16 teeth)	ES60T-622
12H	Base Screw (2)	ES60P-707		for model ES70P (13 teeth)	ES70T-622
13	Switch Base Insulating Plate	--		for model ES80P (23 teeth)	ES80P-622
	Adjusting Rod Package	ES60T-A617		for model ES100P (11 teeth)	ES100P-622
13A	Adjusting Screw	--	24	Spindle Assembly	
13B	Adjusting Screw Nut	--		for models ES60P, ES70P and ES100P	ES60T-A8
13C	Pilot Rod "D"	--		for model ES90P	ES90T-A8
13D	Pilot Rod Spring	--	24	Spindle Bearing Assembly (for model ES80P only)	ES80P-A8
	Motor Assembly			Spindle Gear Package	
	for models ES60P, ES70P and ES100P	ES60T-ULB53		for model ES60P (14 teeth)	ES60T-A10
	for model ES80P	ES80P-ULB53		for model ES70P (17 teeth)	ES70T-A10
	for model ES90P	ES90T-ULB53		for model ES80P (13 teeth)	ES80P-A10
14	Rear End Plate	ES60T-620		for model ES90P (19 teeth)	ES90T-A10
+ 14A	Brush Assembly (2)	--		for model ES100P (19 teeth)	ES100P-A10
15	Brush Cap (2)	ES60T-618	24A	Spindle Gear	
15B	Motor Assembly Spring (2)	ES60T-108		for model ES60P (6)	ES60T-116
15C	Rear Armature Bearing	ES60T-22		for model ES70P (6)	ES70T-202
	Armature Assembly			for model ES80P (6)	ES80P-508
	for model ES80P	ES80P-091		for model ES90P (3) and for model ES100P (6)	ES90T-002
	for model ES90P	ES90T-009	24B	Gear Washer (6 for models ES60P, ES70P, ES80P and ES100P; 3 for model ES90P)	ES60T-733
	for all other models	ES60T-004	24C	Spindle Washer (for model ES90P)	ES90T-680
15E	Yoke Assembly				
	for models ES80P and ES90P	ES90T-008			
	for all other models	ES60T-002			
15F	Front Armature Bearing				
	for model ES80P	ES80P-122			
	for all other models	ES60T-24			
15G	Front End Plate	ES60T-103			
15H	Bearing Washer (for ES80P only)	ES80P-141			

Item	Part Description	Part Number	Item	Part Description	Part Number
25	Cam		33	Spring Plate	ES60T-623
	for models ES60P and ES70P	ES60T-589	34	Clutch Housing Assembly	ES60T-ULA580
	for model ES90P	ES90T-589			
	Cam Package				
	for model ES80P	ES80P-A589	35	Clutch Adjusting Pin Package (includes [3] clutch adjusting pins)	ES60T-601-3
for model ES100P	ES100P-A589				
26A	Cam (for models ES80P and ES100P)	--		Coupling Package	ES60T-UL600
26B	Cam Pin (2 for model ES80P; 4 for model ES100P)	--	36A	Coupling	--
			+ 36B	Coupling Screw (2)	ES60T-711
26C	Cam Washer (for models ES80P and ES100P)	--	37	Spring Adjusting Ring	ES60T-582
			38	Cover	ES60T-405
27	Pilot Rod "H" (2.36" [60 mm] long)	ES60T-606		Bit Sleeve Package	ES60P-A602
	Cam Guide Package		39A	Bit Sleeve	--
	for models ES60P and ES70P	ES60T-A605	39B	Bit Spring	--
	for model ES80P	ES80P-A605	39C	Retaining Ring	--
	for model ES90P	ES90T-A605	40	Bit Retaining Ball (.094" [2.4 mm] dia.) (2)	R000B-263
for model ES100P	ES100P-P605				
28A	Cam Guide Ball (.156" [4 mm] dia.) (4 for model ES100P; 2 for all others)	2U-696	*	Housing Screw Package (includes [10] Housing Screws illustration number 1B)	ES60T-670-10
28B	Cam Guide	--	*	Brush Package (includes [10] Brush Assemblies illustration number 14A)	ES60T-619-10
28C	Cam Guide Ball (for model ES90P only (.0787" [2 mm]) (23)	--	*	Coupling Screw Package (includes [10] Coupling Screws illustration number 36B)	ES60T-671-10
29	Taper Ring Assembly		*	Pistol Grip Handle	DLW2100TP
	for models ES60P, ES70P and ES90P	ES60T-A604	*	Screw and Nut Package	DLW2100-SNP
	for models ES80P and ES100P	ES100P-A604	*	Grid Plate (for size M2.0 screws)	DLW3400
30	Clutch Spring		*	Shaker Plate	
	for model ES60P and ES90P (standard)	ES60T-583		for size M3.0 screws	DLW3600
	for model ES60P and ES90P (optional)	VDS-511		for size M4.0 screws (short)	DLW3800
	for model ES70P	ES70T-583	*	Balancer	
	for model ES80P	ES80P-583		for 7/8 to 2-1/4 lb (.4 to 1.0 kg) loads	BLD1
	for model ES100P	ES100P-583		for 2 to 4 lb(1 to 2 kg) loads	BLD2
	Bit Holder Assembly	ES60P-A586		for 4 to 6 lb (2 to 3 kg) loads	BLD3
31A	Bit Holder	--	*	Torque Adjustment Cover	ES60T-675
31B	Pilot	ES60T-133	*	Torque Adjustment Cover Screw	99V60-274
31C	Pilot Ball (.062" [1.6 mm] dia.)	ES60T-705	*	Microswitch Adjustment Wrench Set	ES60T-MSW
31D	Pilot Retaining Ring	ES60T-706	*	Torque Adjusting Cover	ES60T-TAC
32	Pilot Cam Ball (.156" [4 mm] dia.)(2)	2U-696			
32A	Slide Ring	ES60T-129			
32B	Slide Ring Washer (.032" [0.8 mm] thick)	ES60T-130			
32C	Slide Ring Spring	ES60P-213			
32D	Washer (.013" [0.3mm] thick)	ES60T-667			
32E	Stop Ring	ES60T-668			
*	Pin	ES50TC-755			

* Not Illustrated

+ Can be purchased in quantities often. Refer to the non-illustrated listing of parts for an ordering part number.

Models ES60T, ES70T, ES90T and ES100T Electric Screwdrivers Exploded Diagram



(Dwg. TPA1170-8)

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Models ES60T, ES70T, ES90T and ES100T Electric Screwdrivers Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number	
	Housing Package	ES60T-ULA40	17	Insulator (2)	ES80P-681	
1A	Housing (includes right and left side)	--	17A	Washer (2)	ES80P-683	
+ 1B	Housing Screw (3)	--	*	Front End Plate Washer	ES60T-612	
3	Warning Label		18	Pilot Rod "F" (2.465" [62.6 mm] long)	ES60T-611	
	for models ES60T, ES70T and ES100T	ES60T-UL99	*	Base Insulation Film Pack	ES60T-650	
	for model ES90T	ES80P-UL99	19	Armature Fan	ES60T-62	
	Warning Label	WARNING-13-99	20	Fan Sun Gear		
4	Nameplate			for model ES60T (16 teeth)	ES60T-610	
	for model ES60T	ES60T-UL301		for model ES70T (13 teeth)	ES70T-610	
	for model ES70T	ES70T-UL301		for model ES90T (11 teeth)	ES90T-610	
	for model ES90T	ES90T-UL301		for model ES100T (11 teeth)	ES100P-610	
	for model ES100T	ES100T-UL301	21	Pilot Rod "G" (.385" [9.8 mm] long)	ES60T-609	
	Trigger Assembly	ES60T-A93	22	Gear Case Assembly		
5A	Trigger	--		for models ES60T and ES70T (47 teeth)	ES70P-37	
5B	Trigger Pin	--		for model ES90T (49 teeth)	ES90T-37	
5C	Trigger Spring	--		for model ES100T (49 teeth)	ES100P-37	
6	Suspension Bail	ES60T-365	22A	Gear Head Seat	--	
7	Cord Assembly	ES60T-UL239	22B	Gear Head Seat Retainer	--	
	Ground Wire Package	ES80P-ULA154	23	Gear Head Assembly (for models ES60T, ES70T and ES100T)	ES60T-A216	
7A	Ground Wire	--	24	Gear Head Sun Gear		
7B	Ground Screw	--		for model ES60T (16 teeth)	ES60T-622	
7C	Ground Washer	--		for model ES70T (13 teeth)	ES70T-622	
8	Control Base Package	ES60T-ULB616		for model ES100T (11 teeth)	ES100P-622	
10	Resistor (R10)	ES60T-615	25	Spindle Assembly		
11	Coil (L2)	ES60T-614			for models ES60T, ES70T and ES100T	ES60T-A8
	Reverse Switch Assembly	ES60T-ULA666			for model ES90T	ES90T-A8
12A	Reverse Switch	ES60T-UL666			Spindle Gear Package	
12B	Reverse Switch Rocker	--			for model ES60T (14 teeth)	ES60T-A10
	Switch Package	ES60T-A613			for model ES70T (17 teeth)	ES70T-A10
13A	Microswitch	--		for model ES90T (19 teeth)	ES90T-A10	
13B	Switch Plate	--		for model ES100T (19 teeth)	ES100P-A10	
13C	Microswitch	--	25A	Spindle Gear		
13D	Pilot Screw (2)	ES60P-708			for model ES60T (6)	ES60T-116
13E	Switch Base Screw (2)	ES60P-729			for model ES70T (6)	ES70T-202
13F	Insulating Plate	--			for model ES90T (3) and for model ES100T (6)	ES90T-002
13G	Switch Base	--		25B	Gear Washer (6 for models ES60T, ES70T and ES100T; 3 for model ES90T)	ES60T-733
13H	Base Screw (2)	ES60P-707			25C	Spindle Washer (for model ES90T) (2)
	Adjusting Rod Package	ES60T-A617	27			Cam
14A	Adjusting Screw	--		for models ES60T and ES70T	ES60T-589	
14B	Adjusting Screw Nut	--		for model ES90T	ES90T-589	
14C	Pilot Rod "D"	--		Cam Package (for model ES100T)	ES100P-A589	
14D	Pilot Rod Spring	--	27A	Cam	--	
	Motor Assembly		27B	Cam Pin (4)	--	
	for models ES60T, ES70T and ES100T	ES60T-ULB53	27C	Cam Washer	--	
	for model ES90T	ES90T-ULB53	28	Pilot Rod "H" (2.36" [60 mm] long)	ES60T-606	
15	Rear End Plate	ES60T-620		Cam Guide Package		
+ 15A	Brush Assembly (2)	--		for models ES60T and ES70T	ES60T-A605	
16	Brush Cap (2)	ES60T-618		for model ES90T	ES90T-A605	
16B	Motor Assembly Spring (2)	ES60T-108		for model ES100T	ES100P-P605	
16C	Rear Armature Bearing	ES60T-24	29A	Cam Guide	--	
16D	Armature Assembly		29B	Cam Guide Ball (.156" [4 mm] dia.) (4 for model ES100T; 2 for all others)	2U-696	
	for models ES60T, ES70T and ES100T	ES60T-004	30	Taper Ring Assembly		
	for model ES90T	ES90T-009		for model ES100T	ES100P-A604	
16E	Yoke Assembly			for all other models	ES60T-A604	
	for models ES60T, ES70T and ES100T	ES60T-002				
	for model ES90T	ES90T-008				
16F	Front Armature Bearing	ES60T-24				
16G	Front End Plate	ES60T-103				

Item	Part Description	Part Number	Item	Part Description	Part Number
31	Clutch Spring	ES60T-583	39	Spring Adjusting Ring	ES60T-582
	for model ES60T and ES90T (standard)		40	Cover	ES60T-405
	for model ES60T and ES90T (optional)	ES70T-583	41A	Bit Sleeve Package	ES60T-A602
	for model ES70T	ES70T-583	41B	Bit Spring	--
	for model ES100T	ES100P-583	41C	Retaining Ring	--
	Bit Holder Assembly	ES60T-A586	42	Bit Retaining Ball (2)	R000B-263
32A	Bit Holder	--	*	Housing Screw Package (includes [10] Housing Screws illustration number 1B)	ES60T-670-10
32B	Pilot	ES60T-133			
32C	Pilot Ball (.062" [1.6 mm] dia.)	ES60T-705	*	Brush Package (includes [10] Brush Assemblies illustration number 15A)	ES60T-619-10
32D	Pilot Retaining Ring	ES60T-706			
33	Pilot Cam Ball (.156" [4 mm] dia.) (2)	2U-696	*	Coupling Screw Package (includes [10] Coupling Screws illustration number 38B)	ES60T-671-10
33A	Slide Ring	ES60T-129			
33B	Slide Ring Washer (.032" [0.8 mm] thick)	ES60T-130	*	Grid Plate (for size M2.0 screws)	DLW3400
33C	Slide Ring Spring	ES60T-305	*	Shaker Plate	
33D	Washer (.013" [0.3 mm] thick)	ES60T-667		for size M3.0 screws	DLW3 600
33E	Stop Ring	ES60T-668		for size M4.0 screws (short)	DLW3 800
*	Pin	ES50TC-755		for size M4.0 screws (long)	DLW4000
	Holder Bearing Assembly	ES60T-A603	*	Balancer	
34A	Holder Bearing	--		for 7/8 to 2-1/4 lb. (.4 to 1 kg) loads	BLD1
34B	Holder Washer (.012" [0.3 mm] thick) (2)	--		for 2 to 4 lb. (1 to 2kg) loads	BLD2
				for 4 to 6lb. (2 to 3kg) loads	BLD3
35	Spring Plate	ES60T-623	*	Torque Adjustment Cover	ES60T-675
36	Clutch Housing Assembly		*	Torque Adjustment Cover Screw	99V60-274
	for model ES100T	ES100P-ULA580	*	Pistol Grip Handle	DLW2100TP
	for all other models	ES60T-ULA580	*	Screw and Nut Package	DLW2100-SNP
37	Clutch Adjusting Pin Package (includes [3] clutch adjusting pins)	ES60T-601-3	*	Microswitch Adjustment Wrench Set	ES60T-MSW
	Coupling Package	ES60T-UL600	*	Torque Adjusting Cover	ES60T-TAC
38	Coupling	--			
+ 38B	Coupling Screw (2)	ES60T-711			

* Not Illustrated

+ Can be purchased in quantities often. Refer to the non-illustrated listing of parts for an ordering part number.

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 45527611.

Maintenance Information Manual 45527785.

Manuals can be downloaded from www.irtools.com.

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