

16574527 Edition 5 February 2014

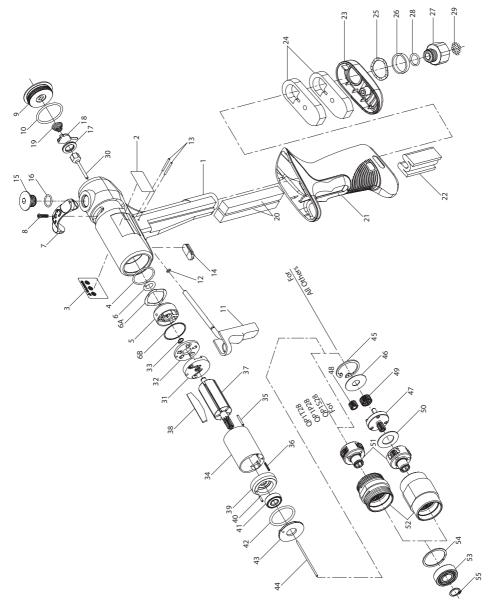
Air Screwdrivers QP1P, QP1S and QP1T Series

Parts Information





QP1P, QP1S and QP1T Motor and Gearing - Exploded View



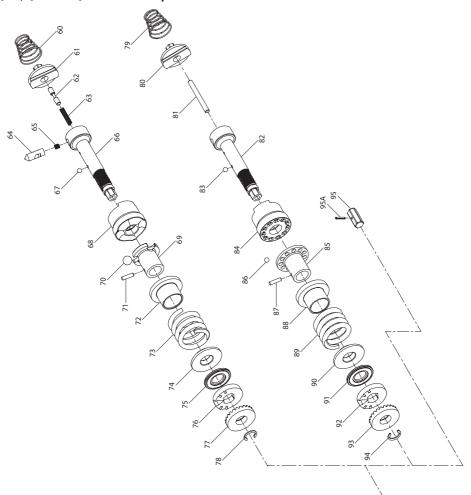
(Dwg. TPA1769-2)

Item	Part Description	Part Number			Part Number	
1	Motor Housing Assembly 31 Rear End Plate Ass		Rear End Plate Assembly (includes rear rotor	TRH-A12-1		
	for Push-to-Start with bottom	TRP-A40-P-B				
	inlet except 250 rpm models		32		TRH-12-2	
	for 250 rpm Push-to-Start	TRP-A40-2P-B	33		8SL-305	
	models with bottom inlet		34		TRH-A3	
	for Push-to-Start with top	TRP-A40-P	35		TRH-98	
	inlet except 250 rpm Models		36		TRH-98-1	
	for 250 rpm Push-to-Start	TRP-A40-2P	37			
	models with top inlet				TRH-53	
	for non-Push-to-Start					
	models with bottom inlet	TRP-A40-B			RD-53	
	except 250 rpm models		- 20		TDU 42.5	
	for 250 rpm non-Push-to-Start	TRP-A40-2B	38		TRH-42-5	
	models with bottom inlet		39 40		TRH-A11	
	for non-Push-to-Start models	TDD 4 40	40		TRH-98-2 TRH-24	
	with top inlet except 250 rpm	TRP-A40				
	models		42		TRH-211	
	for 250 rpm non-Push-to-Start	TRP-A40-2	43		TRH-207	
	models with top inlet	7011.004	44		TRH-425	
2	Nameplate	TRH-301				
3	Warning Label	TRH-99	45		TRH-28	
4	Housing O-Ring	TRH-104				
5	Reverse Valve Assembly for models with an Automatic	1	46		TRH-81	
		TRH-A329	47	Rear End Plate Assembly (includes rear rotor bearing) Rear End Plate Assembly Retainer Cylinder Assembly Cylinder Rear Alignment Pin Cylinder Front Alignment Pin Cylinder Front Alignment Pin Rotor for models with an Automatic Shutoff Valve for models without an Automatic Shutoff Valve Yane Packet (set of 5 Vanes) Front End Plate Assembly End Plate Alignment Pin Front Rotor Bearing Wotor Seal Motor Clamp Washer Push Rod (for models with an Automatic Shutoff Valve) Gear Retainer (for all models except 2800 rpm models) Gear Head Spacer (for all models for 1500 rpm all models for 1500 rpm shutoff and direct drive models for 250, 500 and 1000 rpm models for 250, 500 and 1000 rpm models for 1500 rpm shutoff and direct drive models for 1500 rpm shutoff and direct drive models for 1500 rpm shutoff and direct drive models for 1500 rpm all models and 2000 rpm shutoff and direct drive models for 1500 rpm all models for 1500 rpm shutoff and direct drive models for 1500 rpm all models for 1500 rpm all models and 2000 rpm shutoff and direct drive models for 1500 rpm all models for 1500 rpm all models and 2000 rpm shutoff and direct dri models for 2000 rpm shutoff and direct dri models for 2000 rpm shutoff and direct dri models for 1500 rpm all models for 1500 rpm all models for 2000 rpm shutoff and direct dri models Planet Gear Head Spacer for all models for 1500 rpm all models for 1500 rpm all models for 2800 rpm models for 1500 rpm all models for 2800 rpm models for 2800 rpm models for 2800 rpm models for 1500 rpm models for 1500 rpm models for 2800 rpm models for 280		
	Shutoff Valve		4/			
	for models without an	TRH-A3291			TOUL ADAGO AG	
_	Automatic Shutoff Valve				TRH-A2169-16	
6	Reverse Valve Seal	R1A-159			TOUL ADALCO AD	
6A	Wave Washer	TRP-761-2			TRH-A2169-12	
6B	O-Ring	M002-159				
7	Reverse Lever	TRP-273			TRH-A2169-10	
8	Reverse Lever Screw	TRH-330				
9	Rear Housing Cap Assembly	TRP-A202	48			
10	Rear Housing Cap Seal	TRP-158			TRH-10-16	
11	Trigger Assembly	TRP-A93				
12	Trigger Shaft O-Ring	TRP-112	-		TRH-10-12	
13	Trigger Retaining Pin (2 for Push-to-Start	400-25-87-4				
	models; 1 for all others)				TRH-10-10	
14	Memory Chip Holder Assembly (for models	TRP-A528	49			
	with memory chip only; includes memory	TRP-A528	49		1	
15	chip) Inlet Plug Assembly (for models with top				TDU 17 10	
15		TRP-A565			TRH-17-18	
16	inlet only) Inlet Plug Seal	TRP-103				
17	Throttle Valve Seat	TRP-103 TRP-303			TRH-17-21	
17		TRP-303	50			
18	Throttle Valve Throttle Valve Spring	TRP-A302 TRP-51	50		TRH-82	
20	Housing Muffler Element (2)	TRP-311-2	51		1	
20	Housing Mumer Element (2)	INF-311-2			TRH-A8-16	
21	large size (standard)	TRP-40-2			TRH-A8-16 TRH-A8-12	
	small size	TRP-40-2 TRP-40-1			TRH-A8-12 TRH-A8-10	
22	Grip Muffler Element	3RA-310	52		1111-40-10	
22	Grip End Cap	TRP-40-B	52		TRH-37-S	
23	End Cap Muffler Element (2)	TRP-40-B			TRH-37-5	
24	Wave Washer	TRP-761	53		TRH-57	
25	Inlet Bushing Bezel	TRP-123	54		TRH-510 TRH-208	
	Inlet Bushing Assembly	I INF-123	54		4E-6	
			*		72-0	
27		TRP_0/65				
	for 1/4-18 NPT thread	TRP-A465 TRP-A465-B	1			
27	for 1/4-18 NPT thread for 1/4-19 BSPT thread	TRP-A465-B			Q2-PFAST-TK1	
27 28	for 1/4-18 NPT thread for 1/4-19 BSPT thread Inlet Bushing Seal	TRP-A465-B TRP-103		10, 12, 13, 17, 18, 19, 20, 22, 24, 25, 26, 28, 29, 33, 38, 40, 41 and 42)	Q2-PFAST-IKI	
27 28 29	for 1/4-18 NPT thread for 1/4-19 BSPT thread Inlet Bushing Seal Inlet Bushing Screen	TRP-A465-B			Q2-PFASI-IKI	
27 28	for 1/4-18 NPT thread for 1/4-19 SPT thread Inlet Bushing Seal Inlet Bushing Screen Automatic Shutoff Valve	TRP-A465-B TRP-103			Q2-PFASI-IKI	
27 28 29	for 1/4-18 NPT thread for 1/4-19 BSPT thread Inlet Bushing Seal Inlet Bushing Screen Automatic Shutoff Valve for all trigger permit models and	TRP-A465-B TRP-103			Q2-PFASI-IKI	
27 28 29	for 1/4-18 NPT thread for 1/4-19 SPT thread Inlet Bushing Seal Inlet Bushing Screen Automatic Shutoff Valve	TRP-A465-B TRP-103 TRH-61			Q2-PFASI-IKI	

QP1P, QP1S and QP1T Motor and Gearing - Parts List

* Not Illustrated.

QP1P, QP1S and QP1T Clutches - Exploded View



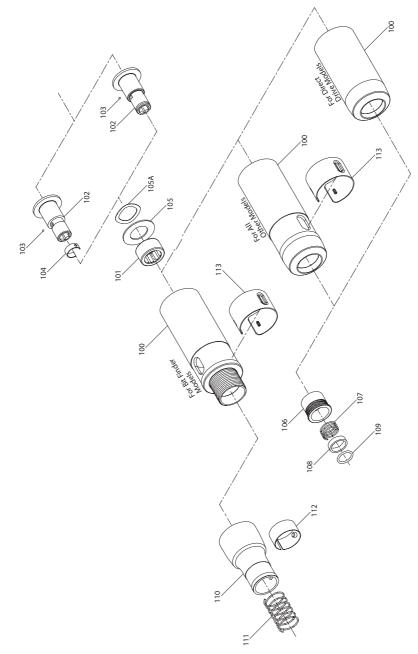
(Dwg. TPA1770-1)

Item	Part Description	Part Number	ltem	Part Description	Part Number
	Automatic Shutoff Clutch Assembly		79	Clutch Return Spring	TRH-405
	with heavy clutch spring	TRH-AH579	80	Clutch Input Driver	TRH-103
	with medium clutch spring	TRH-AM579	81	Clutch Pushrod	TRH-236-C
	with light clutch spring	TRH-AL579	82	Clutch Shaft	TRH-502
60	Clutch Return Spring	TRH-405	83	Clutch Ball (1/8" diameter) (12)	AV1-255
61	Clutch Input Driver	TRH-103	84	Cam Jaw	
62	Automatic Shutoff Plunger	TRH-408		for 1500, 2000 and 2800 rpm	TRH-722-C
63	Automatic Shutoff Plunger Return Spring	TRH-420		cushion clutch models	TRH-722-C
64	Automatic Shutoff Pin	TRH-704		for all other rpm cushion clutch	TDU 701 C
65	Automatic Shutoff Pin Spring	TRH-407		models	TRH-721-C
66	Clutch Shaft	TRH-502	85	Clutch Cam Ball Driver	TRH-581-C
67	Clutch Ball (1/8" diameter) (12)	AV1-255	86	Clutch Cam Ball (1/8" diameter) (11)	AV1-255
68	Cam Jaw	TRH-721	87	Clutch Cam Ball Driver Retaining Pin	TRH-188
69	Clutch Cam Ball Driver	TRH-581	88	Cam Ball Seat	TRH-627-C
70	Clutch Cam Ball (1/4" diameter) (3)	4U-722	89	Clutch Spring	
71	Clutch Driver Retaining Pin	TRH-188		heavy (green)	TRH-H583
72	Cam Ball Seat	TRH-627		medium (red)	TRH-M583
73	Clutch Spring			light (orange)	TRH-XL583
	heavy (green)	TRH-H583	90	Spring Seat	TRH-623
	medium (red)	TRH-M583	91	Thrust Bearing	161A32-105
	light (orange)	TRH-XL583	92	Clutch Adjusting Nut Washer	TRH-582
74	Spring Seat	TRH-623	93	Clutch Adjusting Nut	TRH-588
75	Thrust Bearing	161A32-105	94	Clutch Adjusting Nut Stop	353-701
76	Clutch Adjusting Nut Washer	TRH-582	95	Clutch Shaft (for direct drive models only)	TRH-786-S
77	Clutch Adjusting Nut	TRH-588	95A	Shaft Stop Pin (for direct drive models only)	TRH-98-3
78	Clutch Adjusting Nut Stop	353-701	*	Cushion Clutch Tune-Up Kit (Includes the	
*	Automatic Shutoff Tune-Up Kit			following items: 79, 81, 83, 87, 90, 91	Q2-CC-TK1
	(Includes the following items: 44, 60, 63,	Q2-AS0-TK1		and 94)	
	65, 67, 70, 71, 74, 75 and 78)				
	Cushion Clutch Assembly				
	with heavy clutch spring	TRH-AH579-C			
	with medium clutch spring	TRH-AM579-C			
	with light clutch spring	TRH-AL579-C			

QP1P, QP1S and QP1T Clutches - Parts List

* Not Illustrated.

QP1P, QP1S and QP1T Bit Drivers - Exploded View



(Dwg. TPA1777-1)

tem	Part Description	Part Number	Item	Part Description	Part Number	
	Bit Holder Assembly		101	Clutch Housing Bearing	TRH-105	
	with 1/4" Quick Release Bit Holder		102	Bit Holder		
	(for Push-to-Start Models and Models	TRP-A580-PQ4		for 1/4" Quick Release Bit Holder	TRH-586-H4	
	with Trigger Permit)		I	for 1/4" Bit Finder Bit Holder	TRH-583-Q4	
	with 1/4" Quick Release Bit Holder		Ιſ	for 5 mm Double End Quick	RH-586-5MD	
	(for Trigger Start Models with Cushion	TRP-A580-NQ4		Release Bit Holder	KIT-200-2IVID	
	or Shutoff Clutch)		I	for 1/4" Double End Quick	TRH-586-04D	
	with 1/4" Quick Release Bit Holder	TRP-A580-SS-NO4		Release Bit Holder	TKH-580-Q4D	
	(for Direct Drive Models)	IRP-A360-33-NQ4	103	Bit Retaining Ball		
	with 1/4" Bit Finder Bit Holder			for metric Bit Holders	TRH-629-3M	
	(for Push-to-Start Models and	TRP-A580-PQ4F		for all others Bit Holders	R000B-263	
	Models with Trigger Permit)		104	Bit Retaining Spring (for Bit Finder	TRH-241	
	with 1/4" Bit Finder Bit Holder			Bit Holders)	161-241	
	(for Trigger Start Models with	TRP-A580-NQ4F	105	Shutoff Spacer (for all Models with	TRH-591	
	Cushion or Shutoff Clutch)			Trigger Start only)	161-591	
	with 5 mm Double End Quick Release			Wave Washer (for all Models with	TRH-592	
	Bit Holder (for Push-to-Start Models	TRP-A580-PQ5MD		Trigger Start only)		
	and Models with Trigger Permit)		2-A580-NQ5MD 107 Retaining Sleeve Spring (for Release Bit Holders) 108 Spring State (for Nurk Pales) 108 Spring State (for Ourier Pales)	Bit Retaining Sleeve (for Quick	TRH-930	
	with 5 mm Double End Quick Release					
	Bit Holder (for Trigger Start Models	TRP-A580-NQ5MD		Retaining Sleeve Spring (for Quick	TRH-931	
	with Cushion or Shutoff Clutch)				1111-231	
	with 5 mm Double End Quick Release	TRP-A580-SSNO5MD		Spring Seat (for Quick Release	TRH-244	
	Bit Holder (for Direct Drive Models)	111 71500 5511051110		Bit Holders		
	with 1/4" Double End Quick Release		109	Retaining Ring (for Quick Release Bit	TRH-118	
	Bit Holder (for Push-to-Start Models	TRP-A580-PQ4D		Holders)		
	and Models with Trigger Permit)		Bit Holders)	Non-Rotating Bit Finder (for Bit Finder	TRH-873	
	with 1/4" Double End Quick Release					
	Bit Holder (for Trigger Start Models	TRP-A580-NQ4D	111	Spring (for Bit Finder Bit Holders)	02A60-242	
	with Cushion or Shutoff Clutch)		112	Finder Retaining Spring (for Bit Finder	102A60-628	
	with 1/4" Double End Quick Release	RP-A580-SS-NO4D		Bit Holders)		
	Bit Holder (for Direct Drive Models)	111 7 15 60 55 Hig 15	113	Clutch Adjusting Hole Cover	TAP-415	
100	Clutch Housing		*	Clutch Housing Spanner Wrench	TRH-478	
	for Models with Bit Finder Bit Holders	TRP-580-F	*	Hanger	TRP-A365	
	for Direct Drive Models without Bit	TRP-580-SS				
	Finder Bit Holders					
NotII	for all other Models	TRP-580				

OP1P, OP1S and OP1T Bit Drivers - Parts List

* Not Illustrated.

Clutch Spring Selection Chart

	Free Speed (rpm)	Torque Range (Soft Draw)				
Tool		Light Clutch	Medium Clutch	Heavy Clutch		
		Spring (Orange)	Spring (Red)	Spring (Green)		
	2800	1.7 to 9.7 in-lbs.				
		(0.19 to 1.1 Nm)				
	2000	1.7 to 9.7 in-lbs.	7.9 to 22.1 in-lbs.			
		(0.19 to 1.1 Nm)	(0.89 to 2.50 Nm)			
	1500	1.7 to 9.7 in-lbs.	7.9 to 27.3 in-lbs.			
All Series QP Pistol Grip		(0.19 to 1.1 Nm)	(0.89 to 3.08 Nm)			
Screwdrivers	1000	1.7 to 9.7 in-lbs.	7.9 to 27.3 in-lbs.	13.3 to 40.0 in-lbs		
		(0.19 to 1.1 Nm)	(0.89 to 3.08 Nm)	(1.50 to 4.52 Nm)		
	500	1.7 to 9.7 in-lbs.	7.9 to 28.3 in-lbs.	13.3 to 47.8 in-lbs.		
		(0.19 to 1.1 Nm)	(0.89 to 3.20 Nm)	(1.50 to 5.40 Nm)		
	250	1.7 to 9.7 in-lbs.	7.9 to 28.3 in-lbs.	13.3 to 47.8 in-lbs		
		(0.19 to 1.1 Nm)	(0.89 to 3.20 Nm)	(1.50 to 5.40 Nm)		

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:

Air Screwdriver Product Safety Information Manual 04585006. Air Screwdriver Product Information Manual 80165939.

Air Screwdriver Maintenance Information Manual 16575219.

Manuals can be downloaded from ingersollrandproducts.com.

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