



Form 16572893

Edition 1

January 2006

Air Drill

3SJ and 3SK

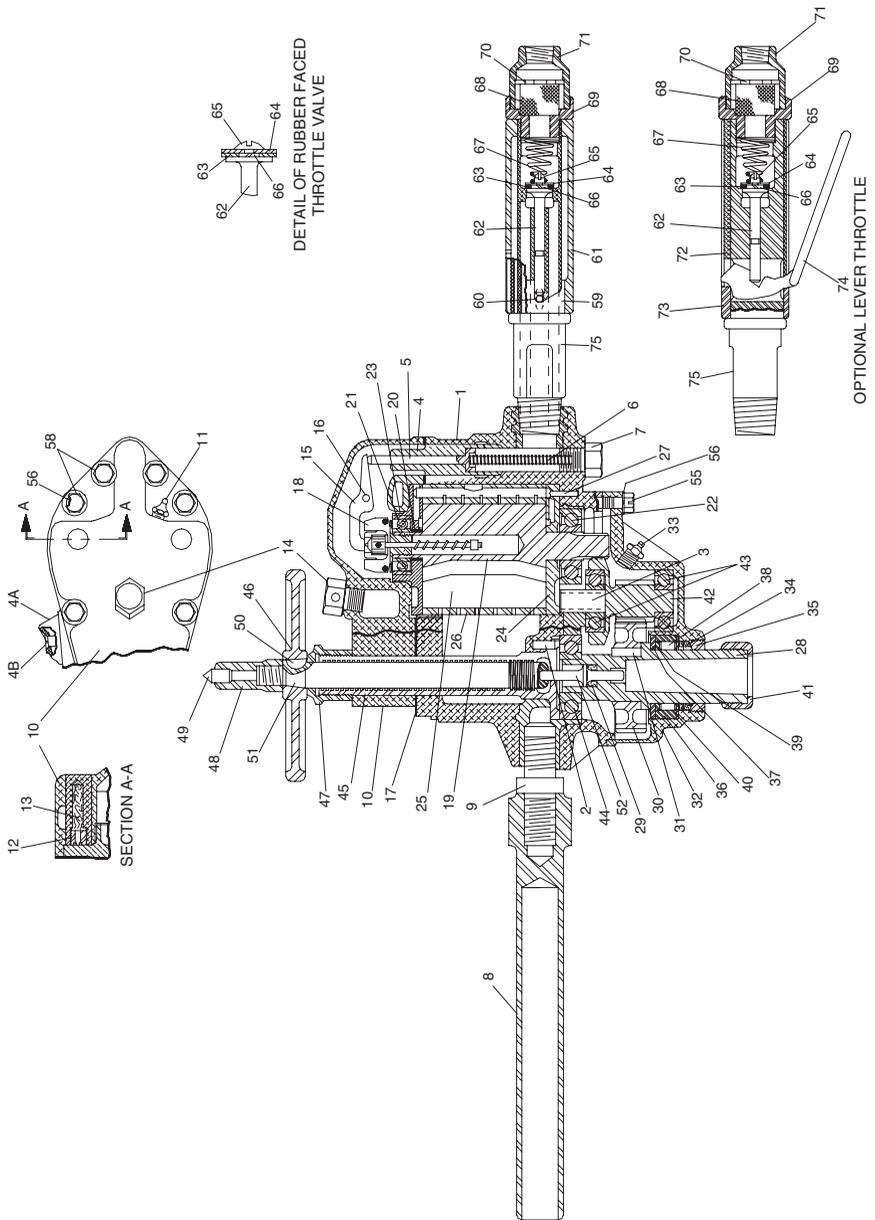
Parts Information



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3SJ, 3SK Air Drill Motor Housing Exploded Diagram



(Dwg. TPA676)

3SJ, 3SK Air Drill Motor Housing Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Motor Housing		28	Spindle	R3SH-108
	for models ending in -EU	R3H-EU-40B	29	Ejecting Pin Packing	R3H-408
	for all other models	R3H-40B	30	Spindle Gear	
*	Warning Label			for 3SJ	R3J-9
	for models ending in -EU	EU-99		for 3SK	R3SK-9
	for all other models	WARNING-8-99	31	Spindle Gear Key	TB-410
*	Nameplate		32	Gear Case	RM3H-37A
	for models ending in -EU	R2H-EU-99	33	Grease Fitting	23-188
	for all other models	R2H-99	34	Spindle Packing (2)	R3H-14
2	Feed Screw Dowel	R3H-527	35	Spindle Packing Nut	R3H-15
3	Intermediate Gear Bearing Stud	R3H-502	36	Spindle Bearing Race	R3H-510
4	Governor Valve Bushing	R3H-429A	37	Spindle Bearing Top Plate	R3H-511
4A	Exhaust Deflector	R3H-23	38	Spindle Bearing Roller (16)	R3H-512
4B	Exhaust Deflector Screw	R3H-312	39	Spindle Bearing Cage	R3H-513
5	Governor Valve	R3H-425A	40	Spindle Bearing Bottom Plate	R3H-514
6	Governor Valve Spring	R3H-431	41	Protection Nut	T02-43A
7	Governor Valve Cap	R3H-433	42	Intermediate Gear	
8	Dead Handle	TC-48		for 3SJ	R3J-82A
9	Dead Handle Stud	TC-364		for 3SK	R3SK-82A
10	Backhead	R3H-102A	43	Intermediate Gear Bearing (2)	TB-394
11	Grease Fitting	23-188	* 44	Spindle Thrust Bearing	D04-366
12	Oiler Adjusting Screw (2)	JA4-71	45	Outer Feed Screw	R3H-290A
13	Oiler Felt (8)	JA4-75		Feed Screw Assembly	R3Y-A291
14	Oil Chamber Plug	P25-227	46	Feed Handle	TC-2
15	Governor Lever	R4F-436	47	Feed Screw Cap	TC-392
16	Governor Lever Pin	MP1-15A	48	Feed Handle Lock Nut	TC-388A
* 17	Backhead Gasket	R3H-283	49	Feed Screw Center	TC-244
18	Weight-Type Governor Assembly	R3H-A424	50	Feed Handle Key	TC-18
19	Rotor	R33H-53B	51	Inner Feed Screw	R3H-291
20	Rotor Bearing Spacer	R3Y-65	52	Drill Ejecting Pin	R3SH-114
* 21	Rear Rotor Bearing	R3H-22	*	Gear Case Bolt (3)	R3Y-103
* 22	Front Rotor Bearing	R3H-24	*	Gear Case Bolt Nut (3)	T06-139
* 23	Rear End Plate	R3H-12	55	Gear Case Cap Screw (3)	R3Y-68A
* 24	Front End Plate	R3H-11	56	1/4" Lock Washer (12)	L01-67
* 25	Vane Packet (set of 5)	R3H-42A-5	57	Backhead Long Cap Screw (2)	R3H-66
* 26	Cylinder	R3H-3A	58	Backhead Short Cap Screw (4)	R3H-57
27	Cylinder Dowel	R3H-98A	*	Grease Gun	P25-228
	Spindle Assembly		*	Spindle Packing Spanner Nut Wrench	R3H-26
	for 3SJ	R3SJ-A108			
	for 3SK	R3SK-A108			

* 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.

3SJ, 3SK Air Drill Throttle Assembly Parts List

Item	Part Description	Part Number		
		Roll Throttle		
		**Manual Closing	Self Closing	
	Throttle Assembly	**R3H-A401	R3H-A417	R3H-AL401
59	Throttle-Cam	**T01-307A	T01-317A	---
60	Throttle Valve Lift Pin	TCC-306A	TCC-306A	---
61	Throttle Sleeve	TCL-305	TCL-305	---
62	Rubber-Faced Throttle Valve	R3H-402	R3H-402	R3H-402
* 63	Throttle Valve Face	8000-159A	8000-159A	8000-159A
64	Throttle Valve Face Cap	8000-157	8000-157	8000-157
65	Throttle Valve Face Retaining Screw	R4-158	R41	R4-158
66	Retaining Screw Lock Washer	H54U-352	H54U-352	H54U-352
67	Throttle Valve Spring	T01-308	TAA-418	T01-308
	Air Strainer Assembly	R3H-A565	R3H-A565	R3H-A565
68	Air Strainer Screen	R3H-61	R3H-61	R3H-61
69	Air Strainer Cap	R3H-566	R3H-566	R3H-566
70	Air Strainer Screen Support	R3H-567	R3H-567	R3H-567
71	Air Strainer Body	R3H-565	R3H-565	R3H-565
72	Lever Throttle Sleeve	---	---	R2J-269
73	Throttle Lever Spacer	---	---	R2J-270
74	Throttle Lever	---	---	R2J-273
75	Throttle Body	R3H-401	R3H-401	R3H-401
*	Rotational Label (non reversible)	R2H-100	R2H-100	R2H-100

* 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.

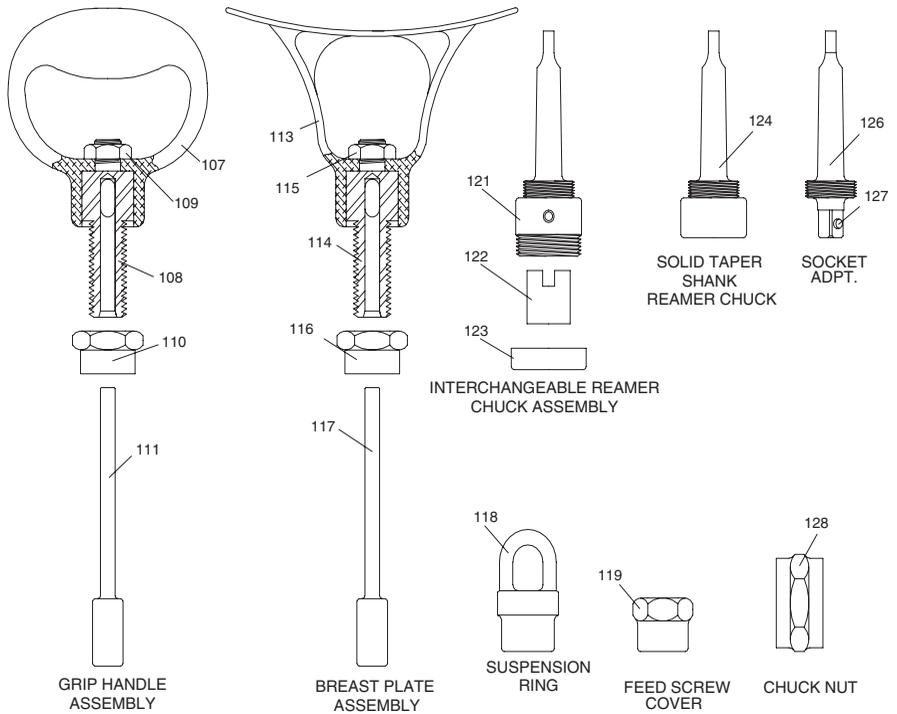
** In compliance with the Williams–Steiger Occupational Safety and Health Act, Manual–Closing Throttle Assemblies and parts used exclusively for Manual– Closing Throttles will be furnished only in international orders.

Order a Use–Em–Up Spindle or an Extension Spindle by the part number shown in the table below.

With the exception of the Spindle, the same parts are included in a Use–Em–Up Spindle Assembly or an Extension Spindle Assembly as in a standard Spindle Assembly. The following table also lists the Use–Em–Up Ejecting Pins that must be used with Use–Em–Up Spindles.

Part Description	3SJ	3SK
Use-Em-Up Spindle Assembly	R3SJ-A294	R3SK-A294
Use-Em-Up Spindle	R3SH-294	R3SH-294
Extension Spindle Assembly	R3SJ-A327	R3SK-A327
Extension Spindle	R3SH-327	R3SJ-327

USE-EM-UP Spindles and Extension Spindles Exploded Diagram



(Dwg. TPA1424-1)

USE-EM-UP Spindles and Extension Spindles Parts List

Item	Part Description	Part Number
106	Grip Handle Assembly	TC-A41
107	Grip Handle	TA-41
108	Grip Handle Stud	TC-448
109	Grip Handle Stud Nut	B12-249
110	Grip Handle Nut	TC-447
111	Grip Handle Ejecting Pin	R3H-50
112	Breast Plate Assembly	TC-A79
113	Breast Plate	TC-79
114	Breast Plate Stud	TC-448
115	Breast Plate Stud Nut	B12-249
116	Breast Plate Nut	TC-447
117	Breast Plate Ejecting Pin	R3H-50
118	Suspension Ring	TC-365
119	Feed Screw Cover	TC-461
120	Interchangeable Reamer Chuck Assembly (specify size bushing required)	
121	Taper Shank Reamer Chuck for Interchangeable Bushing	T02-45A
122	Interchangeable Reamer Chuck Bushing (5/8", 11/16", 3/4", 13/16", 7/8" or 1" square drive hole as specified)	T01-38
123	Interchangeable Reamer Chuck Cap	T01-54
124	Solid Taper Shank Reamer Chuck (5/8", 3/4", 7/8", or 1" square drive hole as specified)	T02-255A
125	Square Socket Chuck, Threaded Type (5/8", 3/4", 7/8", or 1" square drive hole as specified)	T02-342
128	Chuck Nut	T12-347
214	Socket Adapter (No. 3 Morse Taper to 3/4" square drive)	R41-2J4
*	Male Hose Nipple (3/4" hose to 1/2" male pipe)	A03-46
*	Male Hose Nipple (1/2" hose to 1/2" male pipe)	D02-455

* 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:
 Air Drill Product Safety Information Manual 04580353.
 Air Drill Product Information Manual 16572257.
 Air Drill Maintenance Information Manual 16572547.

Manuals can be downloaded from www.irttools.com.

www.irttools.com

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