



Form 16572869  
Edition 1  
September 2005

## Air Drill

20L and 20SL

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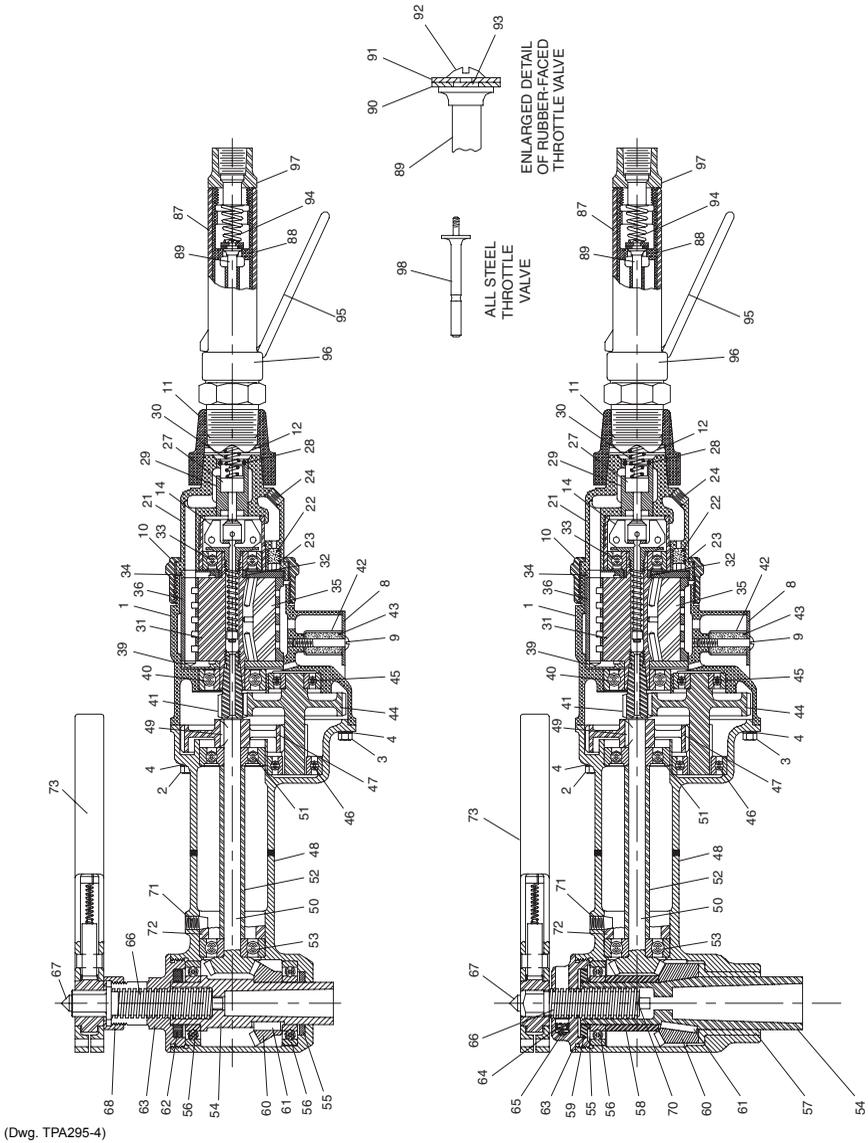
# Parts Information



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20L and 20SL Air Drill Exploded Diagram



## 20L and 20SL Air Drill Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Motor Housing		23	Oiler Adjusting Screw (2)	R2-71
	for models ending in -EU	R2H-EU-40	24	Oil Chamber Plug	R2-227
	for all other models	R2H-40	*	Backhead Stud (2)	R2-144
*	Nameplate		*	Stud Nut (2)	501-639
	for models ending in -EU	R2H-EU-99	27	Governor Valve	R2-425A
	for all other models	R2H-99	* 28	Governor Valve Retaining Spring	R2-281A
2	Cap Screw (long) (4)	R22H-68	29	Governor Valve Bushing	R2-429A
3	Cap Screw (short) (2)	R3-7	30	Governor Valve Spring	R2-431A
4	Lock Washer (6)	8U-58	31	Rotor	R22H-53
*	Housing Plug	R1-369	32	Rotor Bearing Spacer	R2H-65
*	Grease Fitting	R1-188	* 33	Rear Rotor Bearing	R2-22
*	Hexagon Head Pipe Plug	R4G-276	* 34	Rear End Plate	R2H-12
8	Exhaust Deflector	R2H-23	* 35	Vane Packet (set of 5 Vanes)	R2-42B-5
9	Deflector Screw	R2H-312	* 36	Cylinder	R2-3B
10	Coupling Nut	R2-282	*	Cylinder Dowel	P25-98
11	Throttle Connector	R20-333	*	End Plate Dowel	R2H-74A
*	Rotation Label	R2H-100	* 39	Front End Plate	R2H-11
* 12	Air Strainer Screen	D02-889	* 40	Front Rotor Bearing	R2-24A
14	Governor Assembly	R2XJ-A424	41	Rotor Pinion	R2L-17A
21	Backhead		42	Felt Retainer	R2H-175
	for models ending in -EU	R2-EU-102C	43	Muffler Felt	R2H-311
	for all other models	R2-102C	44	Intermediate Gear	R2L-82A
*	Warning Label		45	Intermediate Gear Rear Bearing	R1L-24
	for models ending in -EU	EU-99	46	Intermediate Gear Front Bearing	T06-33
	for all other models	WARNING-8-99	47	Bevel Pinion Drive Gear	R2K-9
22	Oiler Felt (2)	R2-75			

\* 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.

## 20L and 20SL Air Drill Angle Head Parts List

Items	Part Description	20L, 20L-EU Angle Drill	20SL, 20SL-EU Angle Drill
48	Spindle Housing	R20-194	R20S-194
49	Bevel Pinion Drive Gear Key	TC-18	TC-18
* 50	Bevel Pinion	R20-205A	R20-205A
* 51	Bevel Pinion Rear Bearing	R2H-97	R2H-97
52	Bearing Spacer	R20-528	R20-528
* 53	Bevel Pinion Front Bearing	T06-24	T06-24
54	Spindle		
	Standard	R20-508	R20S-508
	Use-Em-Up	R20-294	R20S-294
* 55	Spindle Packing (1 for 20SL and 20SL-EU; 2 for all others)	R20-21	R20S-21
* 56	Spindle Bearing (1 for 20SL and 20SL-EU; 2 for all others)	T13-22	T13-22
* 57	Spindle Bushing	---	R20S-559
58	Spindle Bearing Spacer	---	R20S-576
59	Spindle Nut	---	R20S-578
* 60	Bevel Gear	R20-206A	R20S-206A
61	Bevel Gear Key	R20-610	R20S-610
* 62	Packing Ring (2)	R20-202	---
63	Spindle Housing Cap	R20-195	R20S-195
64	Friction Button	---	R20S-491
65	Friction Button Spring	---	4U-664
66	Feed Screw	R20-291	R20S-291
67	Feed Screw Center	W9-244	W9-244
68	Feed Screw Adjusting Nut	R20-499	---
*	Grease Plug	R2-227	R2-227
70	Feed Screw Stop Pin	---	5UT-762
71	Retainer Lock Screw (3)	R20-561	R20-561
72	Bearing Retainer	R20-224	R20-224
73	Ratchet Handle	R30-48	R30-48
*	Hose Nipple (1/2" hose to 3/8" male pipe)	A01-46	A01-46

\* 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.

## 20L and 20SL Air Drill Throttle Parts List

Item	Part Description	Self Closing Lever Throttle
	Throttle Assembly	R20-AL401
87	Throttle Sleeve	R2J-269
++ 88	Throttle Body	R20-401
** 89	Rubber-Faced Throttle Valve	R3H-402
* 90	Throttle Valve Face	8000-159A
91	Throttle Valve Face Cap	8000-157
92	Valve Stem Screw	R4-158
93	Valve Stem Screw Lock Washer	H54U-352
* 94	Throttle Valve Spring	T01-308
95	Throttle Lever	R2J-273
96	Throttle Lever Spacer	R2J-270
97	Throttle Body Cap	R2J-304
98	All-Steel Throttle Valve	T01-302

• 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.

\*\* Cannot be used as a replacement for the All-Steel Throttle Valve (98).

++ If ordered as a replacement for a Throttle Body equipped with an All-Steel Throttle Valve also order the Rubber-Faced Throttle Valve (89). The Throttle Body for use

with the All-Steel Throttle Valve (98) is discontinued.

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**Maintenance Tools Parts List**

<b>Tool Name</b>	<b>Operation</b>	<b>Tool Number for Ordering</b>
Coupling Nut Spanner Wrench	Removing or installing the Coupling Nut (10).	T1SE-59
Grease Gun	Lubrication.	P25-228
Throttle Valve Puller and Lapping Tool	Removing the All-Steel Throttle Valve (98) from Throttle Body. Also used for lapping the All-Steel Throttle to the seat in the Throttle Body.	T01-371

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**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.

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**Related Documentation**

For additional information refer to:  
Air Drill Product Safety Information Manual 04580353,  
Air Drill Product Information Manual 16572224,  
Air Drill Product Maintenance Manual 16572570.

Manuals can be downloaded from [www.irtools.com](http://www.irtools.com).

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**Notes**

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