



16573925  
Edition 1  
April 2006

# Air Sanders

HDS/TDS Air Sander

---

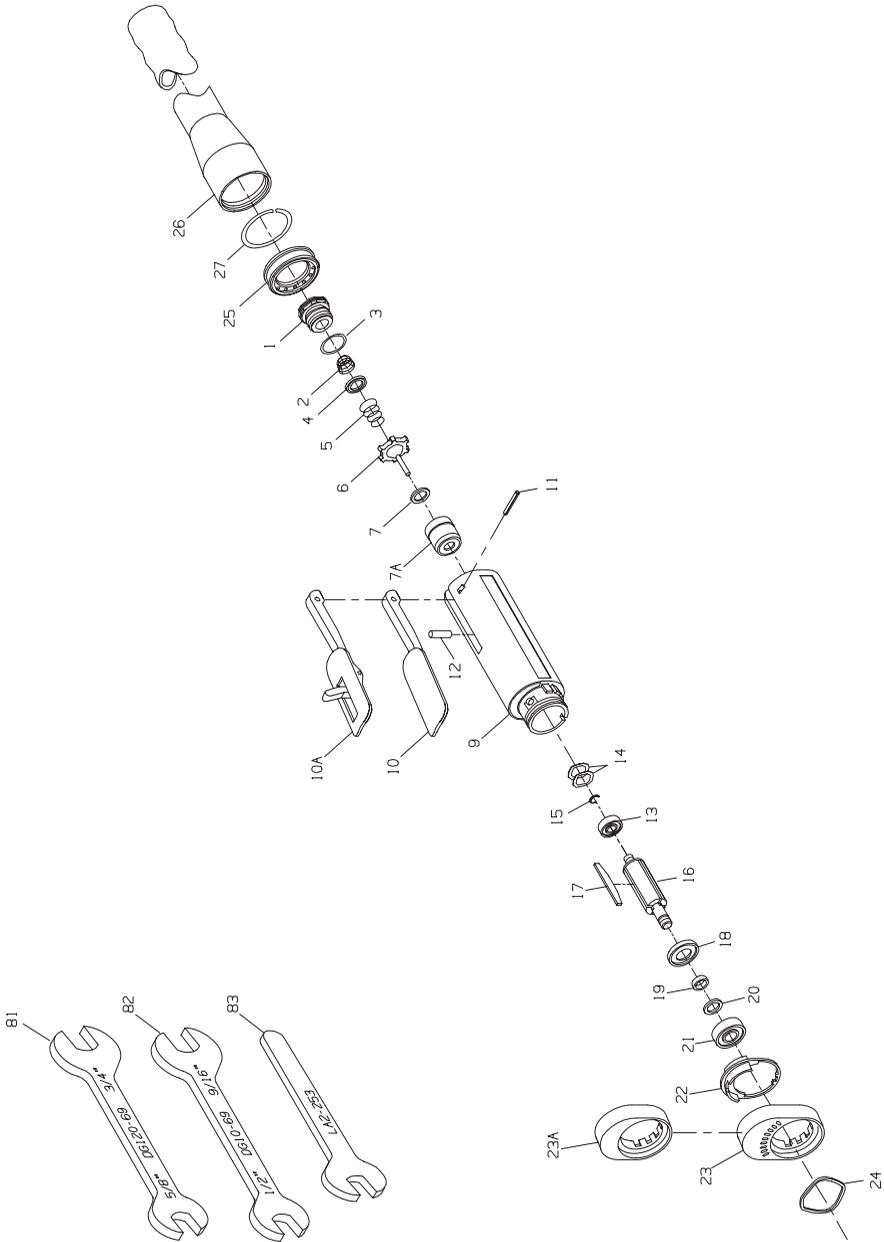
## Parts Information



Save These Instructions

 **Ingersoll Rand**

HDS and TDS Sander, Cyclone Exploded Diagram



(Dwg. TPA1305-2)

## HDS and TDS Sander, Cyclone Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Inlet Assembly	LG2-A465	22	Flow Ring	
2	Inlet Screen	R1602-61		for all HDS models (blue)	LG3-103-3
* 3	Inlet Seal	R18LF-21		for TDS30, TDS45 and TDS90 models (brown)	LG2-103-1
4	Throttle Valve Spring Seat	LG3-592		for TDS15 models (khaki)	LG2-103-2
5	Throttle Valve Spring	7L-51		for TDS120 models (red)	LG2-103-3
6	Throttle Valve		23	High Profile Flange	LG2-23
	for HDS models	LG3-302	# 23A	Concentric Flange	LG3R-23
	for TDS models	LG2-302	24	Flange Clamp	LG2-29
* 7	Throttle Valve Seat		+ 25	Exhaust Hose Adapter	LG2-184
	for HDS models	LG3-303	+ 26	Exhaust Hose	3RL-284
	for TDS models	LG2-303	+ 27	Exhaust Hose Retainer	6WT-203
7A	Valve Cartridge Case (for TDS models only)	LG2-300A	*	Warning Label	LG2-99
9	Motor Housing		*	for EU models	EU-99
	for HDS models	LG3-40	*	Nameplate	
	for TDS models	LG2-40		for HDS10	LGS301-301
10	Throttle Lever	LG2-273		for HDS10-EU	LGS301-EU-301
10A	Locking Throttle Lever Assembly(for all models ending in L or C)	LG2-A400		for HDS30	LGS303-301
*	Lever Lock	LG1-402		for HDS30-EU	LGS303-EU-301
*	Lock Spring	LG1-405		for HDS45	LGS345-301
*	Lock Pin	SUT-757		for HDS45-EU	LGS345-EU-301
11	Throttle Lever Pin	61H-120		for HDS60	LGS306-301
12	Throttle Valve Plunger	LG2-191		for HDS60-EU	LGS306-EU-301
13	Rear Rotor Bearing	R120-127		for HDS90	LGS309-301
* 14	Rear Rotor Bearing Spacer (2)	400-25-191		for HDS90-EU	LGS309-EU-301
* 15	Rear Rotor Bearing Retainer	LG1-118		for TDS15	LGS215-301
16	Rotor			for TDS15-EU	LGS215-EU-301
	for HDS models	LG3-53-4		for TDS30	LGS203-301
	for TDS models	LG2-53-4		for TDS30-EU	LGS203-EU-301
* 17	Vane Packet (set of 4 Vanes)			for TDS45	LGS245-301
	for HDS models	DG31-42-4		for TDS45-EU	LGS245-EU-301
	for TDS models	DG21-42-4		for TDS90	LGS209-301
18	Front End Plate	LG2-11		for TDS90-EU	LGS209-EU-301
19	Front End Plate Spacer	LG2-65		for TDS120	LGS212-301
* 20	Front Seal Cup Assembly	61H-A32		for TDS120-EU	LGS212-EU-301
21	Front Rotor Bearing	LG2-24			

\* Not illustrated.

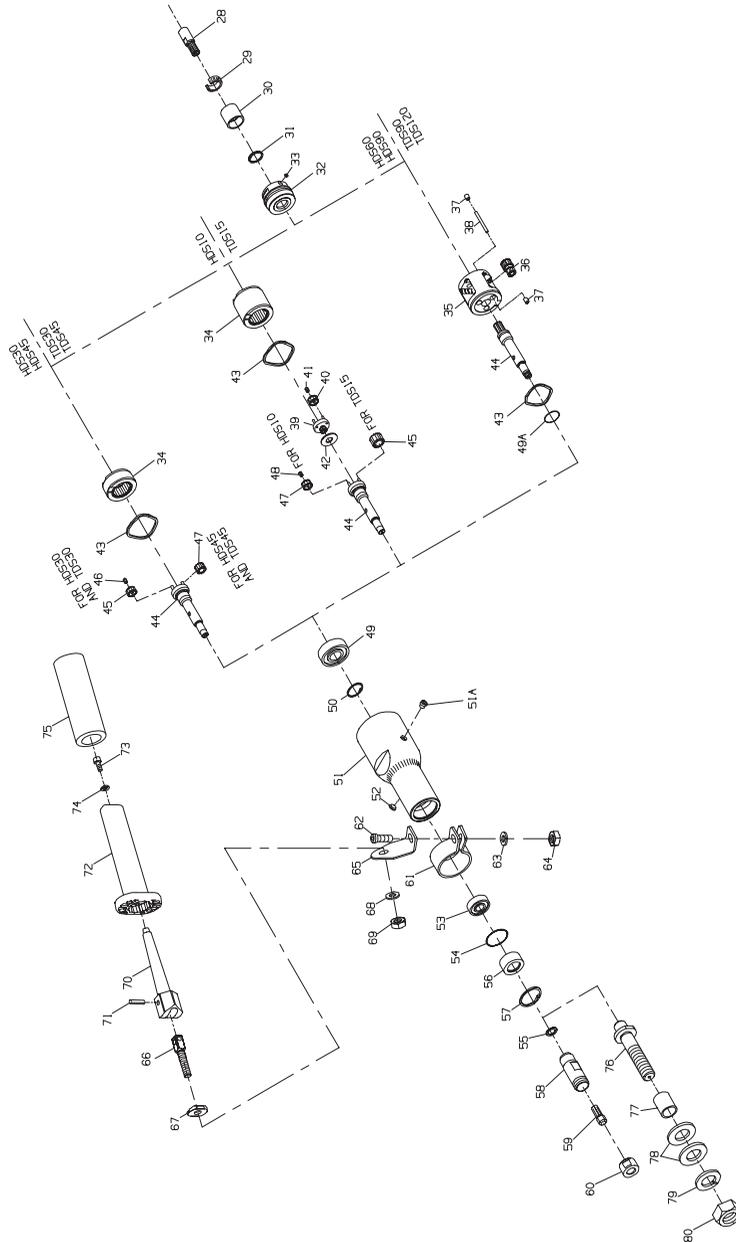
• To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (\*) for every four tools in service.

+ Standard equipment on all models ending in M, MC, or ML and ALL Front Exhaust models; optional equipment on all other models.



# **Always install a Locking Throttle Lever Assembly (10A) on a tool with a Concentric Flange (23A). Installing a Concentric Flange on a tool without a Locking Throttle Lever will allow the tool to continue running if the tool is dropped or set down on the standard non-locking Throttle Lever (10).**

# HDS and TDS Sander, Cyclone Gear Units Exploded Diagram



(Dwg. TPDA1334-2)

## HDS and TDS Sander, Cyclone Gear Units Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
28	Rotor Pinion		47	Spindle Planet Gear (3)	
	for HDS10	LES2-17-16.1		for HDS10	4RLN-10A
	for HDS30 and TDS30	LS2-17-6.3		for HDS45 and TDS45	5RAN-9
	for HDS45 and TDS45	LS2-17-3.8	48	Spindle Planet Gear Bearing (for HDS10 only) (1 for each Gear)	6WTM-500
	for HDS60	HDS-17-2.8	49	Rear Spindle Bearing	105352
	for HDS90, TDS90 and TDS120	HDS-17-1.9	49A	Rear Spindle Bearing Seal (for HDS60, HDS90, TDS90 and TDS120)	AF120-290
	for TDS15	LES2-17-12.9	50	Rear Spindle Bearing Retainer	G57-729
29	Wick	LAS2-560	51	Extension Housing	
30	Clamp Sleeve	LAS2-176		for HDS30, HDS45, TDS30 and TDS45	LS2-20
31	Wick Retaining Ring	182A53-685		for HDS10, HDS60, HDS90, TDS15, TDS90 and TDS120	LS2X-20
32	Gear Case Adapter Assembly	LAS2-A337	51A	Grease Fitting	D0FN-879
33	Grease Fitting	D0F9-879	52	Extension Housing Plug	EG220-92
34	Ring Gear		53	Front Spindle Bearing	WFS182-22
	for HDS10 and TDS15	LES2-406	• 54	Front Spindle Bearing Seal	ET1604-213
	for HDS30 and TDS30	LAS2-406	• 55	Seal Cup Assembly	61H-A32
	for HDS45 and TDS45	LS2-406-3.8	56	Spindle Bearing Shield	LE2-200
35	Gear Frame		57	Shield Retainer	W22-118
	for HDS60	LES2-8-2.8	58	Collet Body	LG2-290
	for HDS90, TDS90 and TDS120	LES2-8-1.9	59	Collet	G160HD-700-1/4
36	Spur Gear (3)		60	Collet Nut	DG120-699A
	for HDS60	HDS-10-2.8	61	Handle Clamp	LS2-48
	for HDS90, TDS90 and TDS120	HDS-10-1.9	62	Handle Clamp Mounting Screw	206041-01
37	Spur Gear Bearing (2 for each Spur Gear)	W22-654	63	Mounting Screw Lockwasher	T11-58
38	Spur Gear Pin (1 for each Spur Gear)	LES2-191	64	Mounting Screw Nut	D02-428
39	Gear Head		65	Handle Bracket	LS2-364
	for HDS10	LES2-216-16.1	66	Position Anchor Bolt	LG2-373
	for TDS15	LES2-216-12.9	67	Anchor Bolt Clamp	LG2-58
40	Gear Head Planet Gear (3)		68	Anchor Bolt Lockwasher	T11-58
	for HDS10	4RLM-10A	69	Anchor Bolt Nut	D02-428
	for TDS15	6WTM-10	70	Handle Arbor	LG2-48Y
41	Gear Head Planet Gear Bearing (3)	6WTM-500	71	Anchor Roll Pin	R00A2-120
42	Gear Head Spacer	6LM-80	72	Handle	LG2-48X
43	Ring Gear Clamp	LG2-29	73	Handle Lock Screw	AG31-667
44	Spindle		74	Lack Screw Washer	MF-37
	for HDS10	LES2-4-16.1	75	Handle Grip	LG2-48W
	for HDS30 and TDS30	LS2-4-6.3	76	Wire Brush Adapter Assembly	LS2-A4-B10
	for HDS45 and TDS45	LS2-4-3.8	77	Spacer (long)	77H50-775
	for HDS60	HDS-4-2.8	78	Spacer (short) (2)	R3F-286
	for HDS90, TDS90 and TDS120	HDS-4-1.9	79	Lockwasher	A-67
	for TDS15	LES2-4-12.9	80	Lock Nut	HU-776
45	Spindle Planet Gear Assembly (3)		81	Collet Nut Wrench (double-end 5/8" x 3/4")	DG120-69
	for HDS30 and TDS30	7AK-A10	82	Collet Body Wrench (double-end 1/2" x 9/16")	DG10-69
	for TDS15	6WTN-A10	83	Gear Case Adapter Wrench (single-end 1-1/2")	LA2-253
46	Spindle Planet Gear Bearing (for 7AK-A10) (1 for each Gear)	7AK-500			

\* 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.

## 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 04580387.  
 Product Information Manual 80221021.  
 Maintenance Information Manual 16575003.

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





**[www.irtools.com](http://www.irtools.com)**

© 2006 Ingersoll Rand Company

