



16573917  
Edition 1  
April 2006

## Air Sanders

HA and HXA Air Angle Sander

---

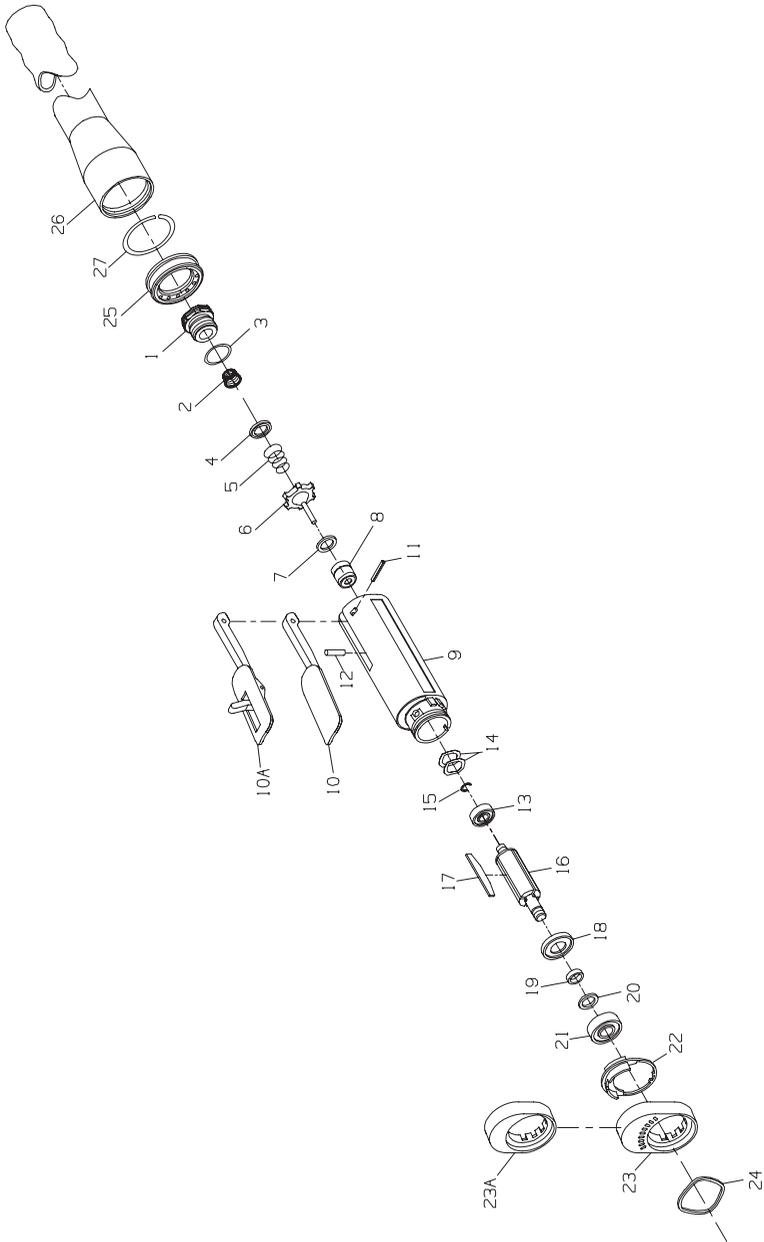
# Parts Information



Save These Instructions

 **Ingersoll Rand**

HA and HXA Air Angle Sander Power Unit Exploded Diagram



(Dwg. TPA1303-3)

## HA and HXA Air Angle Sander Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Inlet Assembly	LG2-A465	Ø 25	Exhaust Hose Adapter	LG2-184
2	Inlet Screen	R1602-61	Ø 26	Exhaust Hose	3RL-284
* 3	Inlet Seal	R18LF-21	Ø 27	Exhaust Hose Retainer	6WT-203
* 4	Throttle Valve Spring Seat	LG3-592	*	Warning Label	
5	Throttle Valve Spring	7L-51		for models NOT ending in -EU	LG2-5-99
6	Throttle Valve	LG3-302		for models ending in -EU	EU-99
7	Throttle Valve Seat	LG3-303	*	Nameplate	
8	Valve Cartridge Cup (for HXA models only)	LG2-300A		for HXA19 models	LXA319-301
9	Motor Housing	LG3-40		for HXA19-EU models	LXA319-EU-301
10	Throttle Lever	LG2-273		for HXA27 models	LXA327-301
10A	Locking Throttle Lever Assembly (for all models ending in L or C)	LG2-A400		for HXA27-EU models	LXA327-EU-301
*	Lever Lock	LG1-402		for HA40-EU models	LA340-EU-301
*	Lock Spring	LG1-405		for HA50 models	LA350-301
*	Lock Pin	5UT-757		for HA50-EU models	LA350-EU-301
11	Throttle Lever Pin	61H-120		for HA60 models	LA360-301
12	Throttle Valve Plunger	LG2-191		for HA60-EU models	LA360-EU-301
13	Rear Rotor Bearing	R120-127		for HXA60 models	LXA360-301
* 14	Rear Rotor Bearing Spacer (2)	400-25-191		for HXA60-EU models	LXA360-EU-301
* 15	Rear Rotor Bearing Retainer	LG1-118		for HA80 models	LA380-301
16	Rotor	LG3-53-4		for HA80-EU models	LA380-EU-301
17	Vane Packet (set of 4 Vanes)	DG31-42-4		for HXA80 models	LXA380-301
18	Front End Plate	LG2-11		for HXA80-EU models	LXA380-EU-301
19	Front End Plate Spacer	LG2-65		for HA100 models	LA3100-301
* 20	Front Seal Cup Assembly	61H-A32		for HA100-EU models	LA3100-EU-301
21	Front Rotor Bearing	LG2-24		for HXA100 models	LXA3100-301
22	Flow Ring			for HXA100-EU models	LXA3100-EU-301
	for HA40 models (gray)	LG2-103-0		for HA120 models	LA312-301
	for HA50 models (brown)	LG2-103-1		for HA120-EU models	LA312-EU-301
	for all others (red)	LG2-103-3		for HXA120 models	LXA312-301
23	High Profile Flange	LG2-23		for HXA120-EU models	LXA312-EU-301
# 23A	Concentric Flange	LG3R-23		for HA140 models	LA3140-301
24	Flange Clamp	LG2-29		for HA140-EU models	LA3140-EU-301

\* Not illustrated.

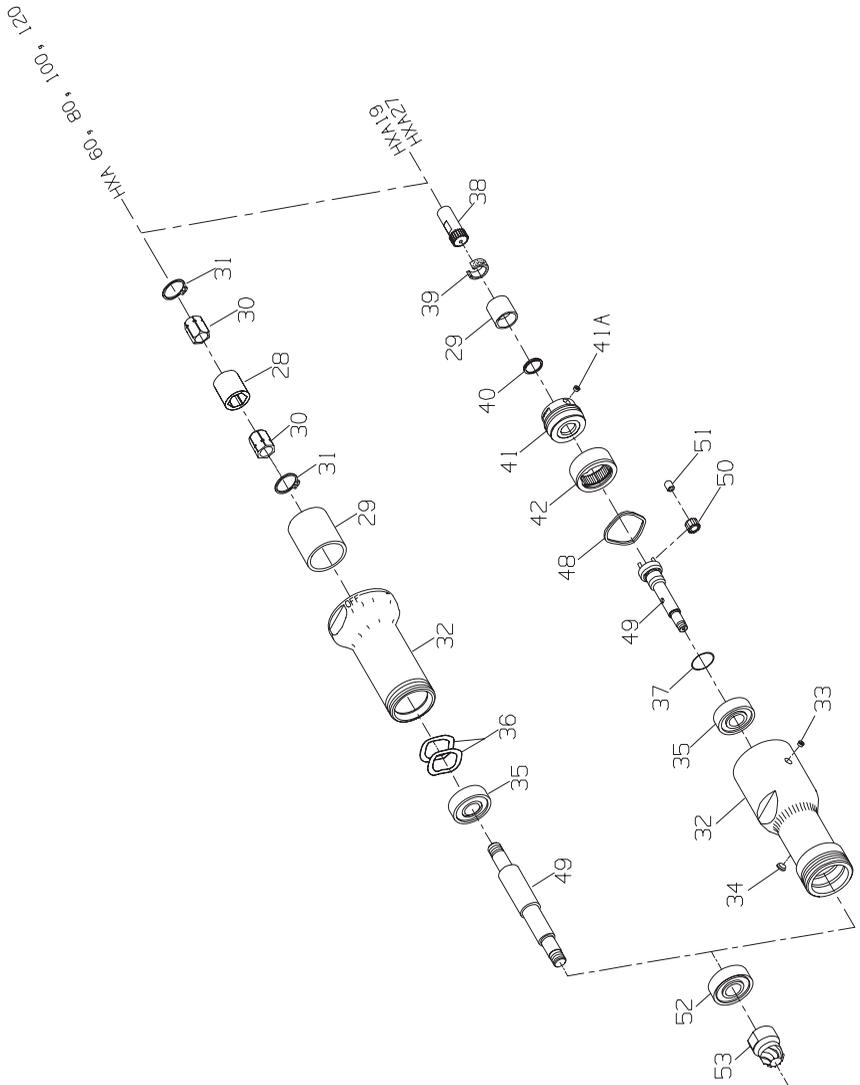
• To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (\*) for every four tools in service.

Ø Standard equipment with all models ending in M, MC or ML; optional equipment on all other models.



# Always install a Locking Throttle Lever Assembly (10A) on a tool with a Low Profile 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).

# HA and HXA Air Angle Sander Gear Trains Exploded Diagram

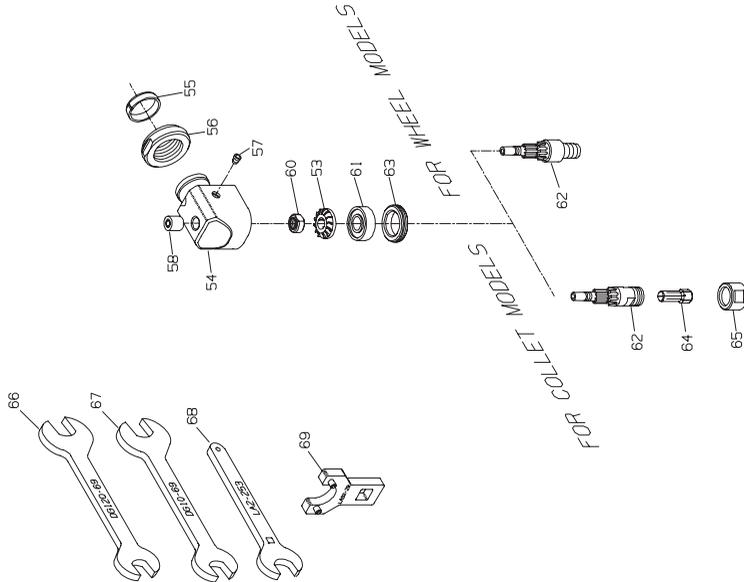


(Dwg. TPA1643)

## HA and HXA Air Angle Sander Gear Trains Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
28	Arbor Coupling (for HXA60, HXA80, HXA100 and HXA120 models)	LE2-304	40	Wick Retaining Ring (for HXA19 and HXA27 models)	182A53-685
29	Clamp Sleeve		41	Gear Case Adapter Assembly (for HXA19 and HXA27 models)	LAS2-337
	for HXA60, HXA80, HXA100 and HXA120 models	LE2-176	41A	Grease Fitting	D0F9-879
	for all other models	LAS2-176	42	Ring Gear (for HXA19 and HXA27 models)	LAS2-406
30	Spindle Bearing Nut (for HXA60, HXA80, HXA100 and HXA120 models) (2)	LE2-85	48	Gear Clamp (for HXA19 and HXA27 models)	LG2-29
31	Coupling Retaining Ring (for HXA60, HXA80 HXA100 and HXA120 models) (2)	RX3-729	49	Spindle	
32	Extension Housing (for HXA60, HXA80, HXA100 and HXA120 models)	LA3-20		for HXA19 and HXA27 models	LAS2-8-5.1
32	Extension Housing Assembly (for HXA19 and HXA27 models)	LAS2-A20		for HXA60, HXA80, HXA100 and HXA120 models	LA 3-4
33	Grease Fitting	D0F9-879	50	Spindle Planet Gear Assembly (3 required) (for HXA19 and HXA27 models) (19 teeth)	7AQ-A10
34	Extension Housing Plug (HXA19 and HXA27)	EG220-92	51	Planet Gear Bearing (1 for each Gear) for 7AQ-A10	7AJ-500
35	Rear Spindle Bearing		52	Front Spindle Bearing	LG2-24
	for HXA19 and HXA27 models	105352	53	Bevel Pinion and Bevel Gear (sold only as a matched set)	
	for all other models	WFS182-22		for HXA19, HXA100 and HA100 models	LA2-A552-1.9
36	Rear Spindle Bearing Washer (for HXA60 HXA80, HXA100 and HXA120 models) (2)	7AH-278		for HXA120 and HA120 models	LA2-A552-1.7
37	Rear Spindle Bearing Seal (for HXA19 and HXA27 models)	AF120-290		for HA140 and HXA27 models	LA2-A552-1.3
38	Rotor Pinion (for HXA19 and HXA27 models)	LAS2-17-5.1		for HXA80 and HA80 models	LA2-A552-2.4
39	Wick (for HXA19 and HXA27 models)	LAS2-560		for all others	LA2-A552-3.1

## HA and HXA Angle Attachment Exploded Diagram

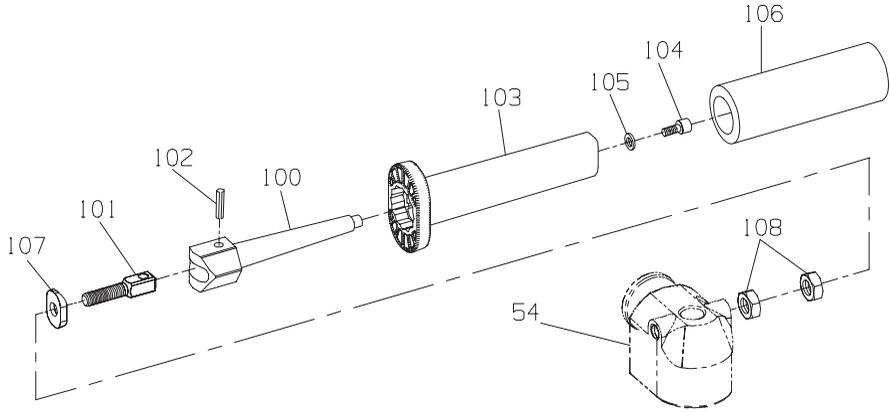


(Dwg. TPA1644)

## HA and HXA Angle Attachment Parts List

Item	Part Description	Part Number
54	Angle Housing Assembly	LA2-A550
55	Clamp Spacer	LA2-46
56	Clamp Nut	LG2-27
57	Grease Fitting	DOF9-879
58	Upper Arbor Bearing	AG210-693
60	Bevel Gear Nut	LA2-578
61	Lower Arbor Bearing	LA2-593
62	Arbor	
	for models ending in G4	AG220-4-G4
	for models ending in S10	LAS2-204-P10
63	Arbor Bearing Cap	AG20-531
64	Collet (for models ending in G4)	G160HD-700-1/4
65	Collet Nut (for models ending in G4)	DG120-699A
66	Collet Nut Wrench (included with all models ending in G4) (double end 5/8" x 3/4")	DG120-69
67	Collet Body Wrench (double end 1/2" x 9/16")	DG10-69
68	Clamp Nut Wrench (1 1/2")	LA2-253
69	Arbor Bearing Cap Wrench	LAS2-29

## HA and HXA Ergo Handle Assembly Exploded Diagram



(Dwg. TPD1975)

## HA and HXA Ergo Handle Assembly Parts List

Item	Part Description	Part Number
†	Ergo Handle Assembly	LG2-A48A
100	Handle Arbor	LG2-48Y
101	Position Anchor Bolt	LG2-373
102	Anchor Roll Pin	R00A2-120
103	Handle	LG2-48X
104	Handle Lock Screw	AL-638
105	Lock Screw Washer	MF-37
106	Handle Grip	LG2-48W
107	Anchor Bolt Clamp	LG2-58
108	Alignment Nut (2)	LG2-428

† The Handle can be mounted for right or left hand operation and the angle between the Handle and the tool can be adjusted by loosening the Alignment Nut (108) closest to the Dead Handle and sliding the Handle toward the Housing or away from the Housing. The Handle can be rotated to the most comfortable position by loosening the Alignment Nut (108) next to the Angle Head and turning the Handle to any of the six available positions.

## 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 80215080.  
 Maintenance Information Manual 16574998.

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

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

© 2006 Ingersoll Rand Company

