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Air Grinder and Die Grinders

HA and HXA Series, Angle

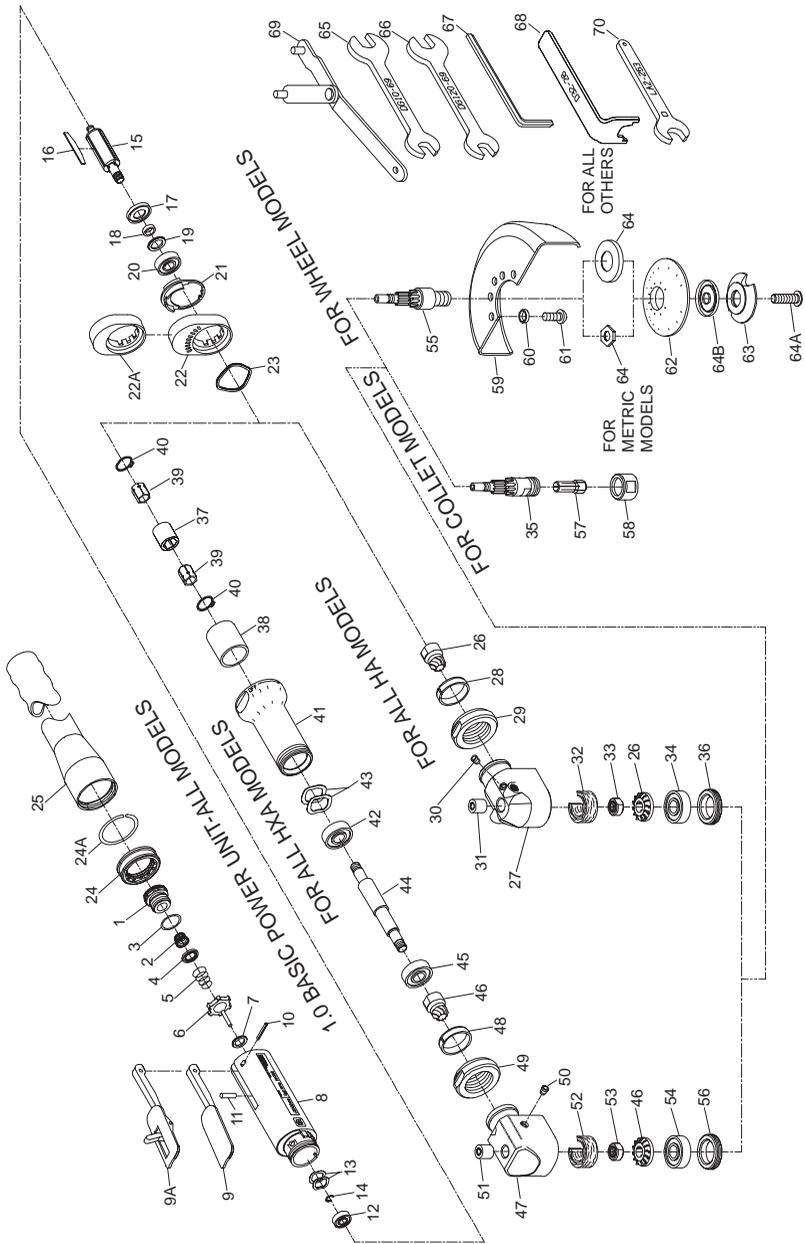
Parts Information



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 **Ingersoll Rand**

HA and HXA Angle Grinder and Die Grinder Exploded Diagram



(Dwg. TPA1297-6)

HA and HXA Angle Grinder and Die Grinder Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Common parts for ALL HA and HXA Grinders		*	Warning Label	
				for collet models ending in -EU	EU-99
1	Inlet Assembly	LG2-A465		for 4" diameter wheel models ending in -EU	EU-64-99
2	Inlet Screen	R1602-61			
* 3	Inlet Seal	R18LF-21		for 4-1/2" diameter wheel models ending in -EU	EU-945-99
4	Throttle Valve Spring Seat	LG3-592			
5	Throttle Valve Spring	7L-51		for 5" diameter wheel models ending in -EU	EU-95-99
6	Throttle Valve	LG3-302			
7	Throttle Valve Seat	LG3-303		for all other models	LG2-99
8	Motor Housing	LG3-40	*	Nameplate	
9	Throttle Lever	LG2-273		for standard length 9000 rpm models ending in -EU	LA309-EU-301
9A	Locking Throttle Lever Assembly (for all models ending in L or C)	LG2-A400		for all other standard length 9000 rpm models	LA309-301
*	Lever Lock	LG1-402		for all other standard length 12000 rpm models ending in -EU	LA312-EU-301
*	Lock Spring	LG1-405			
*	Lock Pin	5UT-757			
10	Throttle Lever Pin	61H-120		for standard length 12000 rpm models	LA312-301
11	Throttle Valve Plunger	LG2-191			
12	Rear Rotor Bearing	R120-127		for extended length 12000 rpm models	LXA312-301
* 13	Rear Rotor Bearing Spacer (2)	400-25-191			
* 14	Rear Rotor Bearing Retainer	LG1-118		Additional parts for all HA models	
15	Rotor	LG3-53-4	26	Bevel Pinion and Bevel Gear (sold only as a matched set)	
* 16	Vane Packet (set of 4 Vanes)	DG31-42-4		for HA90	LA2-A552-1.9
17	Front End Plate	LG2-11		for HA120	LA2-A552-1.7
18	Front End Plate Spacer	LG2-65			
* 19	Front Seal Cup Assembly	61H-A32	+ 27	Angle Housing Assembly	LA2-A550S
20	Front Rotor Bearing	LG2-24	28	Clamp Spacer	LA2-46
21	Flow Ring		29	Clamp Nut	LG2-27
	for HA90 (blue)	LG3-103-3	30	Grease Fitting	D0F9-879
	for HA120 and HXA120 (red)	LG2-103-3	31	Upper Arbor Bearing	AG210-693
22	High Profile Flange	LG2-23	32	Wick	LA2-560
# 22A	Concentric Flange	LG3R-23	33	Bevel Gear Nut	LA2-578
23	Flange Clamp	LG2-29	34	Lower Arbor Bearing	LA2-593
++ 24	Exhaust Hose Adapter	LG2-184	35	Arbor	
++ 24A	Exhaust Hose Retainer	6WT-203		for models ending in G4, G4C or G4L	AG220-4-G4
++ 25	Exhaust Hose	3RL-284	36	Arbor Bearing Cap	AG20-531

* 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 with all models ending in **M, MC or ML** and **ALL** Front Exhaust models: optional equipment on all other models.

+ The LA2-A550S Angle Housing Assembly is furnished with three Wicks. Use Wick (LA2-560) **without** the notch on HA90, HA120 and HXA120 models.

WARNING

Always install a Locking Throttle Lever Assembly (9A) on a tool with a Low Profile Concentric Flange (22A). 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 (9).

HA and HXA Angle Grinder and Die Grinder Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Additional parts for all HXA models			Additional parts for all wheel models	
37	Arbor Coupling	LE2-304			
38	Clamp Sleeve	LE2-176	59	Wheel Guard	
39	Spindle Bearing Nut (2)	LE2-85		for models ending in P64, P64C, P64L, P64M, P64MC or P64ML (4" or 102 mm)	AG121-106-4
40	Coupling Retaining Ring (2)	RX3-729			
41	Extension Housing	LA3-20			
42	Rear Spindle Bearing	WFS182-22		for models ending in P1045, P1045C, P1045L, P945M, P945MC or P945ML (4-1/2" or 115 mm)	LA3-106-45
43	Rear Spindle Bearing Washer (2)	7AH-278			
44	Spindle	LA3-4			
45	Front Spindle Bearing	LG2-24			
46	Bevel Pinion and Bevel Gear (sold only as a matched set)	LA2-A552-1.7		for models ending in P105, P105C or P105L (5" or 127 mm)	LA3-106-5
+ 47	Angle Housing Assembly	LA2-A550S		for models ending in P95M, P95MC or P95ML (5" or 127 mm)	LA3-106-5-EU
48	Clamp Spacer	LA2-46			
49	Clamp Nut	LG2-27			
50	Grease Fitting	D0F9-879	60	Guard Lock Washer (3)	R2-320
51	Upper Arbor Bearing	AG210-693	61	Guard Mounting Screw (3)	AG31-667
52	Wick	LA2-560	++ 62	Wheel Flange	
53	Bevel Gear Nut	LA2-578		for models ending in P64, P64C or P64L	R0A2D61-337
54	Lower Arbor Bearing	LA2-593			
55	Arbor			for models ending in P1045, P1045C, P1045L, P105, P105C or P105L	AG230-337-5
	for models ending in P64, P64C, P64L, P64M, P64MC or P64ML	AG220-4		for models ending in P64M, P64MC or P64ML	AG31-337-4
	for models ending in P1045, P1045C or P1045L	AG230-4-1045		for models ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML	LG3-337-45M
	for models ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML	AG230-4-945	++ 63	Flange Nut	
56	Arbor Bearing Cap	AG20-531		for models ending in P64, P64C or P64L	AG21-337A-3
	Additional parts for all collet models				
57	Collet			for models ending in P1045, P1045C, P1045L, P105, P105C or P105L	AG230-338-5
	for models ending in -EU	G160HD-700-6mm			
	for all other models	G160HD-700-1/4		for models ending in P64M, P64MC or P64ML	AG31-338-4
58	Collet Nut	DG120-699A		for models ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML	AG230-338-45M

++ These parts must be used for mounting Type 27 Depressed Center Wheels 4", 4-1/2" or 5" diameter X 1/4" thick.

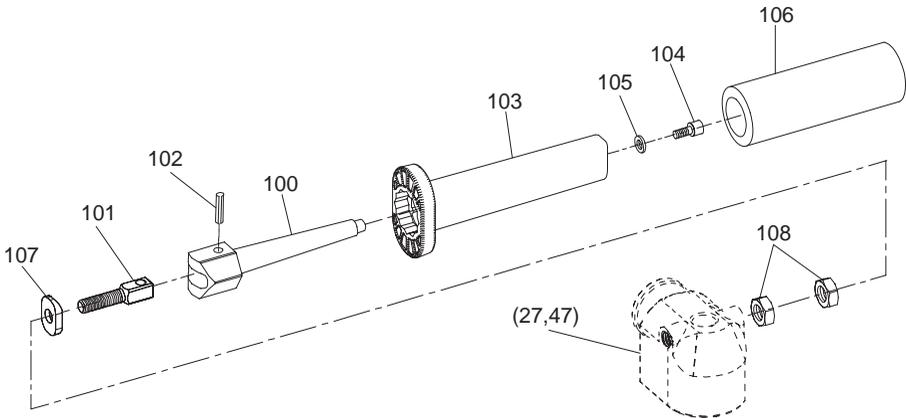
+ The LA2-A550S Angle Housing Assembly is furnished with three Wicks. Use Wick (LA2-560) **without** the notch on HA90, HA120 and HXA120 models.

Item	Part Description	Part Number	Item	Part Description	Part Number
•• 64	Flange Spacer for models ending in P64, P64C, P64L, P64M, P64MC or P64ML	LA2-111	67	Arbor Wrench	
	for models ending in P1045, P1045C, P1045L, P105, P105C or P105L	R3F-286		furnished with all models using Type 27 Wheels and ending in P1045, P1045C, P1045L, P105, P105C or P105L (3/16" hex wrench)	AG220-340
64A	Wheel Retaining Screw (for models ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML)	LG2-219M		furnished with all models using Type 27 Wheels and ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML (6 mm hex wrench)	AG230-340M
64B	Wheel Retaining Screw Washer (for models ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML)	LG2-218	68	Flange Nut Wrench (L-shaped) (included with all models using Type 27 Wheels except models ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML)	D32-26
Accessories for all models			69	Flange Nut Wrench (adjustable spanner) (included with all models using Type 27 Wheels and ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML)	AG230-26M
65	Collet Body/Arbor Wrench included with all models ending in G4, G4C or G4L and all models using Type 27 Wheels except models ending in P945M, P945MC, P945ML, P95M, P95MC or P95ML) (double-end 1/2" x 9/16")	DG10-69	70	Clamp Nut Wrench (1-1/2")	LA2-253
66	Collet Nut Wrench (included with all models ending in G4, G4C or G4L) double-end 5/8"x 3/4")	DG120-69	*	IR No. 10 Oil (4 oz. bottle)	10Z4
			*	IR No. 63 Oil (4 oz. bottle)	63Z4
			*	IR No. 67 Grease (1 lb. can)	67-1LB
			*	IR No. 77 Grease (1 lb. can)	77-1LB

* Not illustrated.

- These Flange Spacers must be used on the specified models in addition to the Guard (59), Flange (62) and Nut (63) when mounting a Type 27 Depressed Center Wheel less than 1/4" thick. For mounting Type 27 Depressed Center Wheels less than 1/4" thick on metric models, reverse the Flange Nut (63).

HA and HXA Angle Grinder Ergo Handle Assembly Exploded Diagram



(Dwg. TPD1864)

HA and HXA Angle Grinder 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:
 Air Grinder Product Safety Information Manual 04584959 and 04580288.
 Air Grinder Product Information Manual 16576241 and 16576266.
 Air Grinder Maintenance Information Manual 16575086.

Manuals can be downloaded from www.irttools.com.

Notes

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