



Tune-Up / Service kits

ARO Service Kits are available for the most popular ARO Air Tools and are a convenient, economical way to keep your ARO tools operating at peak performance. Each kit contains all the necessary replacement parts to properly perform preventative maintenance on a particular model tool. All parts are individually wrapped and identified, and packaged in an easy-to-store carton with a service manual, parts list, oil and grease. To order, locate the particular model or series ARO Air tool in the chart and specify the appropriate kit number.

Tool Models / Series	Service Kit
7015-11, 8212-1B, 8213-1B Die Grinder	39001
8525-C thru 8527-C Drill and Screwdriver	39929
7149-C, 7153-C, 7235-C and 7236-C Die Grinder	40102-1
7014-E & 7015-E Die Grinders	41800
8506, 8509, 8515 & 8521 w/Adjustable Clutch QRT Screwdrivers	42114
8506, 8509, 8515 & 8521 w/Direct Drive QRT Screwdrivers	42122-2
8506, 8509, 8515 & 8521 w/Positive Clutch QRT Screwdrivers	42341
8318 Right-Angle Grinder	44367
8316 Scaling Hammer	44694
8317 Right-Angle Grinder	45780
Series 20 "B" and "C" Model Screwdrivers	46992
Series 20 "C" Model QRT Screwdrivers	48817-1
Series 20 Right-Angle Screwdrivers	48803-1
Series 20 "B" Model Drills	47755
Series 20 Right-Angle Drills	48446-1
Series 50 "B" and "C" Model Screwdrivers	47353-1
Series 50 "C" Model QRT Screwdriver	48818-1
Series 50 Right-Angle Screwdrivers	48804-1
Series 50 "B" Model Drills	47756
Series 50 Right-Angle Drills	48447-1
Series 50 Nutsetters	47407
Series 80 Nutsetters	47369
8448-A1(), 8448-A3() Orbital Sander	48248-1
8446-B(), 8447-D() and 8457-A() Random Orbital Sanders	48249-1
8416, 8417 and 8418 Mini Random Orbital Sanders	48894
RS2 Elite Sanders (also 8416, 8417, 8418 classic line mini sanders built after 12/1/93)	49837
8446-B, 8447-E and 8457-B Random Orbital Sanders produced after 12/1/93	49846

Industrial Tool Accessories

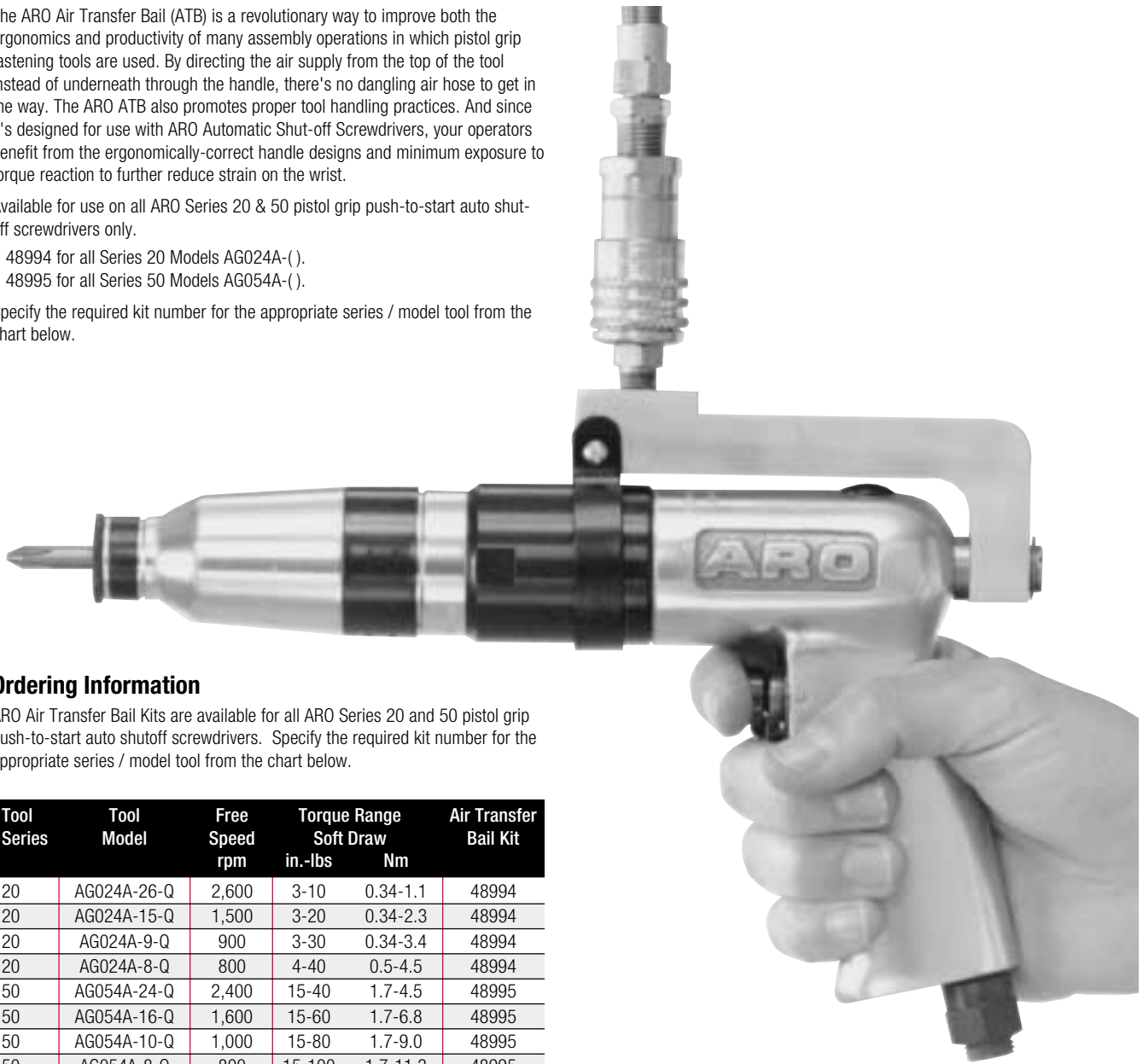
Assembly Tools

The ARO Air Transfer Bail (ATB) is a revolutionary way to improve both the ergonomics and productivity of many assembly operations in which pistol grip fastening tools are used. By directing the air supply from the top of the tool instead of underneath through the handle, there's no dangling air hose to get in the way. The ARO ATB also promotes proper tool handling practices. And since it's designed for use with ARO Automatic Shut-off Screwdrivers, your operators benefit from the ergonomically-correct handle designs and minimum exposure to torque reaction to further reduce strain on the wrist.

Available for use on all ARO Series 20 & 50 pistol grip push-to-start auto shut-off screwdrivers only.

- 48994 for all Series 20 Models AG024A-().
- 48995 for all Series 50 Models AG054A-().

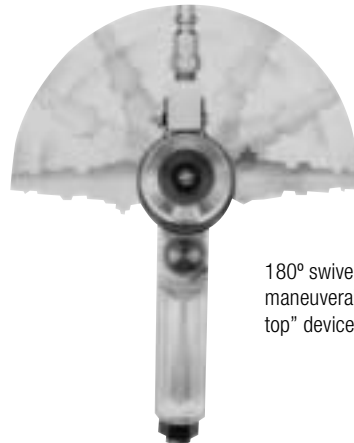
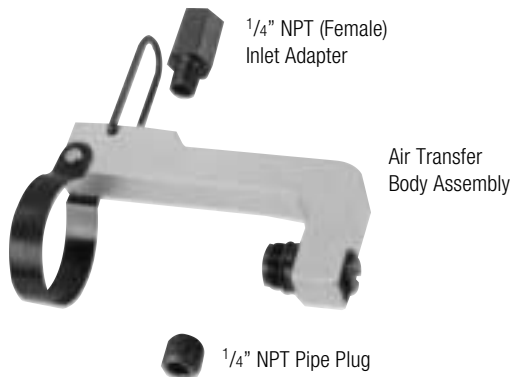
Specify the required kit number for the appropriate series / model tool from the chart below.



Ordering Information

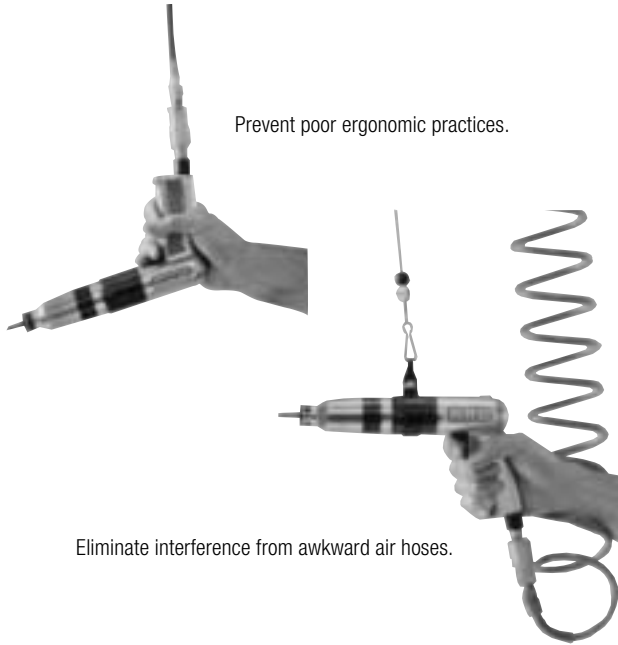
ARO Air Transfer Bail Kits are available for all ARO Series 20 and 50 pistol grip push-to-start auto shutoff screwdrivers. Specify the required kit number for the appropriate series / model tool from the chart below.

Tool Series	Tool Model	Free Speed rpm	Torque Range		Air Transfer Bail Kit
			Soft Draw in.-lbs	Nm	
20	AG024A-26-Q	2,600	3-10	0.34-1.1	48994
20	AG024A-15-Q	1,500	3-20	0.34-2.3	48994
20	AG024A-9-Q	900	3-30	0.34-3.4	48994
20	AG024A-8-Q	800	4-40	0.5-4.5	48994
50	AG054A-24-Q	2,400	15-40	1.7-4.5	48995
50	AG054A-16-Q	1,600	15-60	1.7-6.8	48995
50	AG054A-10-Q	1,000	15-80	1.7-9.0	48995
50	AG054A-8-Q	800	15-100	1.7-11.3	48995



180° swivel action provides greater maneuverability than the other "air on top" device.

Improve operator comfort and productivity!



Prevent poor ergonomic practices.

Eliminate interference from awkward air hoses.



46467¹
47795²



46328

- (1) Use on Series 50 with No. 46467 ring gear.
- (2) Use on Series 41 with No. 48904 ring gear. See side notes.



Ingersoll-Rand IRAX Hose Reel Balancer



ARO Series 20 or 50 Pistol Grip, Push-To-Start Screwdriver

ARO Air Transfer Ball

The Ingersoll-Rand IRAX Hose Reel Balancers are a convenient combination of a tool balancer and an air supply. There's no need for a separate suspension balancer and yoke. Hose tension is easily adjustable to match the weight of the tool used.

- BHR15 1¹/₂ – 3¹/₃ lbs load capacity, 4¹/₄ ft. of lift
- BHR25 2⁵/₈ – 5¹/₂ lbs load capacity, 4¹/₄ ft. of lift

Suspension Bails

Bails are used to position tools above the immediate work area within easy reach of the operators. They are effective in minimizing the physical effort and time required to handle tools.

- 47795 for Series 20 pistol grip and right angle models.
- 46472 for Series 50 pistol grip and right angle models. Not with ASOs and some ball clutch tools.
- 46328 for Series 20 and 50 in-line model (included as standard equipment with each tool).
- 48934 for IR Series 41 and ARO ASO pistol grip tool and some ball clutch tools.

Balancers

Balancers can be used to suspend a tool from a workstation jib arm or from an overhead fixture. An external adjustment permits matching the extension to the weight of the tool, virtually eliminating the weight of the tool from the operator to reduce fatigue.

- 8375-2, 2 lbs (.9 kg) capacity, equipped with 5 ft. of cable.
- 8375-4, 4 lbs (1.5 kg) capacity, equipped with 5 ft. cable.
- 7472, 5 lbs (2.3 kg) capacity, equipped with 8 ft. cable.

Industrial Tool Accessories

Assembly Tools

Custom Covers

The ARO Custom Cover Tool Wraps are yet another ergonomic advantage of ARO Tool and Hoist Products. Made of a unique engineered foam material, Custom Covers have been proven effective in minimizing the effects of tool vibration. The textured finish and insulating properties provide a comfortable, warm-to-the-touch grip surface, requiring less gripping force, for improved handling and less fatigue. And unlike many other tool wraps, ARO Custom Covers contain no mercury, eliminating concerns about possible worker exposure and environmental issues over proper disposal. They're die cut for a perfect fit and are available for many of the most popular ARO air tools.



Features and Benefits

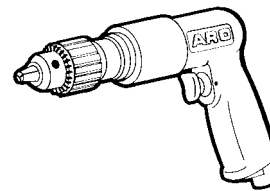
- Effective vibration damping
- Comfortable, non-slip grip surface
- Die cut for perfect fit
- Also available in sheet form
- No-mess self-adhesive backing

Ordering Information

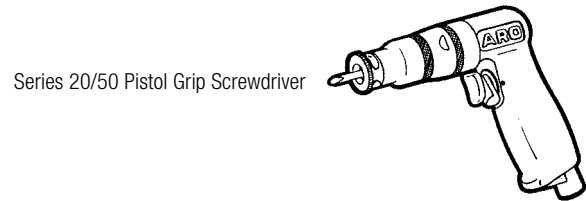
ARO Custom Cover Kits are available for the following ARO air tools. See chart below.

Tool Model	Description	Kit No.
DG021B-(-)-(-)	Series 20 P.G. Drill	49040-13
DG022B-(-)-(-)	Series 20 P.G. Drill	
DG051B-(-)-(-)	Series 50 P.G. Drill	
DG052B-(-)-(-)	Series 50 P.G. Drill	
SG021B-(-)-(-)	Series 20 P.G. Screwdriver	49040-13
SG022B-(-)-(-)	Series 20 P.G. Screwdriver	
SG023B-(-)-(-)	Series 20 P.G. Screwdriver	
SG029B-(-)-(-)	Series 20 P.G. Screwdriver	
SG051B-(-)-(-)	Series 50 P.G. Screwdriver	
SG052B-(-)-(-)	Series 50 P.G. Screwdriver	
SG053B-(-)-(-)	Series 50 P.G. Screwdriver	
SG059B-(-)-(-)	Series 50 P.G. Screwdriver	
AG024A-(-)-(-)	Series 20 P.G. Screwdriver	
AG027A-(-)-(-)	Series 20 P.G. Screwdriver	
AG028A-(-)-(-)	Series 20 P.G. Screwdriver	49040-18 ¹
AG054A-(-)-(-)	Series 50 P.G. Screwdriver	
AG057A-(-)-(-)	Series 50 P.G. Screwdriver	
AG058A-(-)-(-)	Series 50 P.G. Screwdriver	
-	Other Tool Models	

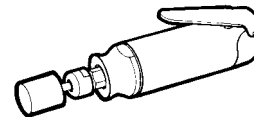
(1) Kit includes one (1) 5 1/2" x 8 1/2" sheet of wrap material and seam tape which can be cut to fit a variety of power tools.



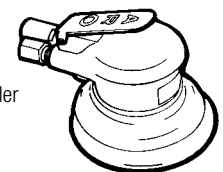
Series 20/50 Pistol Grip Drill



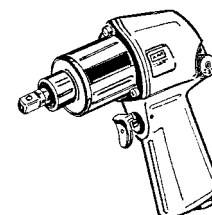
Series 20/50 Pistol Grip Screwdriver



Die Grinder



Random Orbital Sander



Impact Wrench

Industrial Tool Accessories
Assembly Tools



47618 Bio-Grip

47822 Bio-Mechanical Flange



46724 Rubber Grip

Grips and Flanges

Rubber grip and plastic bio-grip provide a more comfortable surface to hold. Bio-grip and bio-mechanical flange reduce the amount of gripping pressure required to hold a tool when applying downward force.

- 47618 Bio-Grip for all Series 20 in-line models.
- 47822 Bio-Mechanical Flange for all Series 50 in-line models.
- 49040-13 Custom Cover™ Tool Wrap for all Series 20 & 50 pistol grip models.

Note: Grips and Flanges cannot be used on models with Skinsulate™. Consult factory.



46831 Side Handle

Side Handle

Using a Side Handle on a straight/lever throttle screwdriver or drill reduces the amount of pressure required to grip a tool when applying downward force. On a pistol grip tool it enables the operator to apply added pressure to the screwdriver or drill bit and maintain proper wrist positioning. It also helps to effectively minimize the strain on the wrist from reaction torque, especially in higher torque applications.

- 46831 Side Handle for all Series 50 models.

Note: Recommended for use on all Series 50 auto shutoff and adjustable clutch screwdrivers. No extra cost when ordered with tool.

- 48931 Side Handle for IR Series 41



Swivel Fitting

An ARO Swivel Fitting reduces the amount of effort and strain often required to maneuver a tool by minimizing the "drag" caused by the air hose. Air flow can also be regulated from 0 to 25 cfm by the external adjustment knob.

Swivel	Thread Size	Weight	Recommended Air Flow	Pressure Range
ASA 1/4	1/4" NPT	3 oz.	Up to 25 cfm	0-150 psi
ASA 3/8	3/8" NPT	3 oz.	Up to 25 cfm	0-150 psi

Industrial Tool Accessories

Assembly Tools

Piped Exhaust Assemblies

An ARO Piped Exhaust System is an effective method to help keep dirt and oil contaminants out of the work area while reducing operating sound levels. Each system comes complete with air inlet and exhaust hoses, all necessary fittings and adapters, and a muffler.

Piped Exhaust No.	Tool Model / Series Used On	Length
44360-()	Model 7014 & 7015 Grinders	(1)
	Model 8317 & 8318 Grinders	
	Model 8299 Screwdrivers & Nutsetters	
	Models 7456 & 7453 Nutsetters for all random orbital sanders	
44361-()	Models 8506, 8509, 8515, 8521	(1)
	QRT Screwdrivers	
44561-()	Models 7840, 7843 Grinders	(1)
	Models 7874, 8067 Grinders	
	Models 7939, 7944, 7945 Sanders	
	Models 784X, 785X Drills	
	Models 785X, 786X, 788X, 789X Screwdrivers	
	Model 8038, 8039, 8040 Electrode Dressers	

(1) Add dash number to Piped Exhaust No. to indicate the desired length in feet.



Overhose Assemblies

An ARO Overhose Assembly is a simple, economical means to deflect tool exhaust away from the immediate work area. It reduces operating sound levels and helps keep dirt and oil out of the immediate work area.

Overhose ¹ No.	Tool Model / Series Used On	Standard Length	
		ft	m
46373 ²	Series 20 Straight Screwdrivers & Drills	2	0.6
46490 ²	Series 20 Pistol Grip Screwdrivers & Drills	2	0.6
-	All Series 50 Screwdrivers & Drills	-	-

(1) Add dash number to Overhose No. to indicate the desired length in feet.

(2) Use 46513 Clamp to secure 46373 hose and use 46477 Clamp to secure 46490 hose to straight tools. Order separately.

Warranty Information

ARO provides three different product warranties. Each warranty is designed to give you the maximum coverage and protection for your ARO products. Check the warranty card(s) provided with your ARO tool(s) for the appropriate warranty information.

The following information outlines the three basic warranties provided by ARO and the products they cover.

One-Year Warranty

Products Covered: All products (except automatic shutoff tools-see below)

Two-Year Warranty

Products Covered: Random Orbital Sanders.

Warranty Statement

ARO Tool Products warrants the original user of the Product (Tool) to be free of defects in material and workmanship for a period of (one year, two years) from the date of purchase. ARO will repair, without cost, any Tool found to be defective, including parts and labor charges, or at its option, will replace such Tools or refund the purchase price less a reasonable allowance for depreciation in exchange for the Tool. Repairs or replacements are warranted for the remainder of the original warranty period.

If this Tool proves defective within its original (one year, two years) warranty period, it should be returned to any Authorized ARO Tool Distributor, transportation prepaid with proof of purchase or warranty card.

This warranty does not apply to Tools which ARO has determined to have been misused or abused, improperly maintained by the user, or where the malfunction or defect can be attributed to the use of non-genuine ARO repair parts.

ARO makes no other warranty, and ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY PERIOD AS SET FORTH ABOVE. ARO's maximum liability is limited to the purchase price of the Tool and in no event shall ARO be liable for any consequential, indirect incidental, or special damages of any nature arising from the sale or use of the Tool, whether in contract, tort, or otherwise.

Note: Some states do not allow limitations on incidental or consequential damages or how long an implied warranty lasts so that the above limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

One/Five-Year Warranty

Products Covered: One Year — “20” and “50” series automatic shutoff tools.

Five Year — “20” and “50” series automatic shutoff clutch.

Warranty Statement

ARO Tool Products warrants the original user of any ARO Series 20 and 50 automatic shutoff screwdriver and nutsetter, (Tool), to be free of defects in material and workmanship for a period of one year from the date of purchase, and with respect to the automatic shutoff clutch contained therein, five years from date of purchase. ARO will repair, without cost, any Tool found to be defective, including parts and labor charges, or at its option, will replace such Tools or refund the purchase price less a reasonable allowance for depreciation in exchange for the Tool. Repairs or replacements are warranted for the remainder of the original warranty period.

If this Tool proves defective within its original warranty period, it should be returned to any Authorized ARO Tool Distributor, transportation prepaid with proof of purchase or warranty card.

This warranty does not apply to Tools which ARO has determined to have been misused or abused, improperly maintained by the user, or where the malfunction or defect can be attributed to the use of non-genuine ARO repair parts.

ARO makes no other warranty, and ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY PERIOD AS SET FORTH ABOVE. ARO's maximum liability is limited to the purchase price of the Tool and in no event shall ARO be liable for any consequential, indirect incidental, or special damages of any nature arising from the sale or use of the Tool, whether in contract, tort, or otherwise.

Note: Some states do not allow limitations on incidental or consequential damages or how long an implied warranty lasts so that the above limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

Remember, to ensure that your ARO tool products are fully protected by our power tool warranties, registration cards must be filled out entirely at time of purchase and returned to ARO Tool Products.

Index / Quick Reference


Model	Description	Operator's Manual	Page	Model	Description	Operator's Manual	Page	Model	Description	Operator's Manual	Page
AG024A-8-Q	Screwdriver	49999-246	11	DR023B-5(-)	Drill	49999-181	44	NA051A-4(-)	Nutsetter	49999-009	24
AG024A-9-Q	Screwdriver	49999-246	11	DR023B-11(-)	Drill	49999-181	44	NA051A-6(-)	Nutsetter	49999-009	24
AG024A-15-Q	Screwdriver	49999-246	11	DR023B-21(-)	Drill	49999-181	44	NA051A-8(-)	Nutsetter	49999-009	24
AG024A-26-Q	Screwdriver	49999-246	11	DR023B-37(-)	Drill	49999-181	44	NA051A-10(-)	Nutsetter	49999-009	24
AG027A-8-Q	Screwdriver	49999-246	11	DR023B-73(-)	Drill	49999-181	44	NA051A-16(-)	Nutsetter	49999-009	24
AG027A-9-Q	Screwdriver	49999-246	11	DR051B-4(-)	Drill	49999-109	43	NA051A-24(-)	Nutsetter	49999-009	24
AG027A-15-Q	Screwdriver	49999-246	11	DR051B-7(-)	Drill	49999-109	43	NA054A-4(-)	Nutsetter	49999-009	24
AG027A-26-Q	Screwdriver	49999-246	11	DR051B-11(-)	Drill	49999-109	43	NA054A-6(-)	Nutsetter	49999-009	24
AG028A-8-Q	Screwdriver	49999-246	11	DR051B-19(-)	Drill	49999-109	43	NA054A-8(-)	Nutsetter	49999-009	24
AG028A-9-Q	Screwdriver	49999-246	11	DR051B-28(-)	Drill	49999-109	43	NA054A-10(-)	Nutsetter	49999-009	24
AG028A-15-Q	Screwdriver	49999-246	11	DR051B-36(-)	Drill	49999-109	43	NA054A-16(-)	Nutsetter	49999-009	24
AG028A-26-Q	Screwdriver	49999-246	11	DR051B-125(-)	Drill	49999-109	43	NA054A-24(-)	Nutsetter	49999-009	24
AG054A-8-Q	Screwdriver	49999-067	11	DR053B-27(-)	Drill	49999-109	44	NR021B-5R(-)	Nutsetter	49999-043	22
AG054A-10-Q	Screwdriver	49999-067	11	DR053B-41(-)	Drill	49999-109	44	NR021B-10R(-)	Nutsetter	49999-043	22
AG054A-16-Q	Screwdriver	49999-067	11	DR053B-52(-)	Drill	49999-109	44	NR021B-17R(-)	Nutsetter	49999-043	22
AG024A-24-Q	Screwdriver	49999-067	11	ETT1	Torque Tester	P7545	35	NR021B-33R(-)	Nutsetter	49999-043	22
AG057A-8-Q	Screwdriver	49999-067	11	ETT12	Torque Tester	P7545	35	NR023B-5R(-)	Nutsetter	49999-043	17
AG057A-10-Q	Screwdriver	49999-067	11	ETT30	Torque Tester	P7545	35	NR023B-10R(-)	Nutsetter	49999-043	17
AG057A-16-Q	Screwdriver	49999-067	11	ETT4	Torque Tester	P7545	35	NR023B-17R(-)	Nutsetter	49999-043	17
AG057A-24-Q	Screwdriver	49999-067	11	GH03A-20(J)C-2	Grinder	49999-217	67	NR051B-6H(-)	Nutsetter	49999-389	22
AG058A-8-Q	Screwdriver	49999-067	11	GH03A-25(J)C-2	Grinder	49999-217	67	NR051B-8H(-)	Nutsetter	49999-389	22
AG058A-10-Q	Screwdriver	49999-067	11	GH03A-30(J)C-2	Grinder	49999-217	67	NR051B-11H(-)	Nutsetter	49999-389	22
AG058A-16-Q	Screwdriver	49999-067	11	GH03A-35(J)C-2	Grinder	49999-217	67	NR051B-16R(-)	Nutsetter	49999-389	22
AG058A-24-Q	Screwdriver	49999-067	11	GH03A-20(J)G-3	Grinder	49999-217	68	NR051B-24R(-)	Nutsetter	49999-389	22
AR028A-9L(-)	Screwdriver	49999-043	13	GH07A-12(J)C-2	Grinder	49999-434	67	NR053B-6H(-)	Nutsetter	49999-389	17
AR028A-14L(-)	Screwdriver	49999-043	13	GH07A-18(J)C-2	Grinder	49999-434	67	NR053B-8H(-)	Nutsetter	49999-389	17
AR028A-25L(-)	Screwdriver	49999-043	13	GH07A-20(J)C-2	Grinder	49999-434	67	NR053B-11H(-)	Nutsetter	49999-389	17
AR028A-48L(-)	Screwdriver	49999-043	13	GH07A-25(J)C-2	Grinder	49999-434	67	NR053B-9R(-)	Nutsetter	49999-389	17
AR028A-5R(-)	Screwdriver	49999-043	13	GH07A-20(J)R-2	Router	49999-434	71	NR053B-16R(-)	Nutsetter	49999-389	17
AR028A-10R(-)	Screwdriver	49999-043	13	GH07A-25(J)R-2	Router	49999-434	71	PBG147A-A5	Pulse Nutrunner	49999-538	35
AR028A-17R(-)	Screwdriver	49999-043	13	GH011A-600-1	Grinder	49999-131	76	PBG147A-B1	Pulse Nutrunner	49999-538	35
AR058A-6H(-)	Screwdriver	49999-389	13	GH10A-12(J)C-2	Grinder	49999-438	67	PG087A-A5	Pulse Nutrunner	49999-531	33
AR058A-9R(-)	Screwdriver	49999-389	13	GH10A-18(J)C-2	Grinder	49999-438	67	PG227A-A5	Pulse Nutrunner	49999-533	33
AR058A-16R(-)	Screwdriver	49999-389	13	GH10A-18(J)R-2	Router	49999-438	71	PG247A-A5	Pulse Nutrunner	49999-535	35
AR058A-24R(-)	Screwdriver	49999-389	13	GH15A-03L-5	Grinder	49999-458	73	PG267A-A5	Pulse Nutrunner	49999-533	33
AS028A-8-Q	Screwdriver	49999-246	12	GH15A-05L-5	Grinder	49999-458	73	PG287A-B1	Pulse Nutrunner	49999-533	33
AS028A-9-Q	Screwdriver	49999-246	12	GH15A-09D-5	Grinder	49999-458	73	PG307A-A5	Pulse Nutrunner	49999-535	35
AS028A-15-Q	Screwdriver	49999-246	12	GH15A-09G-4	Grinder	49999-458	73	PG347A-B1	Pulse Nutrunner	49999-535	35
AS028A-26-Q	Screwdriver	49999-246	12	GH15A-12D-5	Grinder	49999-458	73	PG397A-B1	Pulse Nutrunner	49999-535	35
AS058A-8-Q	Screwdriver	49999-067	12	GH15A-12G-3	Grinder	49999-458	73	PG537A-B1	Pulse Nutrunner	49999-536	35
AS058A-10-Q	Screwdriver	49999-067	12	GH15A-12G-4	Grinder	49999-458	73	PG857A-D1	Pulse Nutrunner	49999-537	35
AS058A-17-Q	Screwdriver	49999-067	12	GH20A-06G-6	Grinder	49999-460	73	PS087A-A5	Pulse Nutrunner	49999-532	33
AS058A-25-Q	Screwdriver	49999-067	12	GH22A-09D-5	Grinder	49999-460	73	PS227A-A5	Pulse Nutrunner	49999-534	33
DA023B-5(-)	Drill	49999-180	44	GHS10A-01(J)C-2	Grinder	49999-436	68	PS267A-A5	Pulse Nutrunner	49999-534	33
DA023B-11(-)	Drill	49999-180	44	GHS10A-03(J)C-2	Grinder	49999-436	68	RS23A-CLV	R.O. Sander*	49999-451	61
DA023B-21(-)	Drill	49999-180	44	GHS10A-05(J)C-2	Grinder	49999-436	68	RS23A-PLV	R.O. Sander*	49999-451	61
DA023B-37(-)	Drill	49999-180	44	GHX03A-25(J)C-2	Grinder	49999-217	67	RS23A-VLV	R.O. Sander*	49999-451	61
DA053B-27(-)	Drill	49999-303	44	GHX03A-30(J)C-2	Grinder	49999-217	67	RS25A-CLV	R.O. Sander*	49999-451	61
DA053B-41(-)	Drill	49999-303	44	GR03A-12(J)B-3	Sander	49999-463	70	RS25A-CSV	R.O. Sander*	49999-451	61
DA053B-52(-)	Drill	49999-303	44	GR03A-12(J)B-4	Sander	49999-463	70	RS25A-PSD	R.O. Sander*	49999-451	61
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*Random Orbital Sander
**Peering and Scaling Hammer


Warning Information


	⚠ WARNING
	Always wear eye protection when operating or performing maintenance on this tool.


	⚠ WARNING
	Always wear hearing protection when operating this tool.


	⚠ WARNING
	Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool.

	⚠ WARNING
	Air powered tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.

	⚠ WARNING
	Do not carry the tool by the hose.

	⚠ WARNING
	Do not use damaged, frayed or deteriorated air hoses and fittings.

	⚠ WARNING
	Keep body stance balanced and firm. Do not overreach when operating this tool.

	⚠ WARNING
	Operate at 90 psig (6.2 bar / 620 kPa) maximum air pressure.

Note: Always read the operators' manual before using any air tool.

In General...

- Always install, operate, inspect and maintain tools in accordance with American National Standards Institute Safety Code for Portable Air Tools (ANSI B186.1).
- Always use clean dry air at 90 psig (6.2 bar/620 kPa) maximum air pressure at the inlet. Higher pressure may result in hazardous situations, including excessive speed, rupture, or incorrect output torque or force.
- Air powered tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.
- Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on a tool, or before performing any maintenance on a tool.
- Keep hands, loose clothing, long hair and jewelry away from working end of tool.
- Keep body stance balanced and firm. Do not overreach when operating tool. Anticipate and be alert for sudden changes in motion, reaction torques, or forces during start up and operation.
- Tool and/or accessories may briefly continue their motion after throttle is released.
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel, or jet fuel. Use only recommended lubricants.
- Do not remove any labels. Replace any damaged label.
- Use accessories recommended by ARO Tool Products.

Contact Information

When Using Grinders...

- Do not use tools if actual free speed exceeds the nameplate rpm.
- Tachometer to make certain its actual speed at 90 psig (6.2 bar/620 kPa) does not exceed the rpm stamped or printed on the name plate. Grinders in use on the job must be similarly checked at least once each shift.
- Always use the ARO wheel guard furnished with the grinder. Failure to do so could result in injury.
- Do not use a grinder without the recommended wheel guard. Do not use any wheel for which the operating speed listed on the blotter is lower than the actual free speed of the grinder.
- Inspect all grinding wheels for chips or cracks prior to mounting. Do not use a wheel that is chipped or cracked or otherwise damaged. Do not use a wheel that has been soaked in water or any other liquid.
- Make certain the grinding wheel properly fits the arbor. The wheel should not fit too snugly or too loosely. Plain hole wheels should have about 0.007" (0.17mm) maximum diametral clearance. Do not use reducing bushings to adapt a wheel to any arbor unless such bushings are supplied by or recommended by the wheel manufacturer.
- After mounting a new wheel, hold the grinder under a steel workbench or inside a casting and run it for at least 60 seconds. Make certain no one is within the operating plane of the grinding wheel. If the wheel is defective, improperly mounted or the wrong size and speed, this is the time it will usually fail.
- When starting a cold wheel, apply it to the work slowly until the wheel gradually warms up. Make smooth contact with the work, and avoid any bumping action or excessive pressure.
- Always replace a damaged, bent or severely worn wheel guard. Do not use a wheel guard that has been subjected to a wheel failure.
- Make certain the wheel flanges are at least $\frac{1}{3}$ the diameter of the grinding wheel, free of nicks and burrs and sharp edges. Always use the wheel flanges furnished by the manufacturer; never use a makeshift flange or a plain washer.
- Guard opening must face away from operator. Bottom of wheel must not project beyond guard.
- Always use a wheel blotter between each wheel flange and the wheel. The blotters must be at least as large in diameter as the wheel flanges.
- Do not attempt to disassemble the controller. The controller is available only as a unit and is guaranteed for the life of the tool if it is not abused.

For Sales Information . . .

United States

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Ingersoll-Rand Tool and
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Regional Office

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730 N.W. 107th Ave., Suite 300
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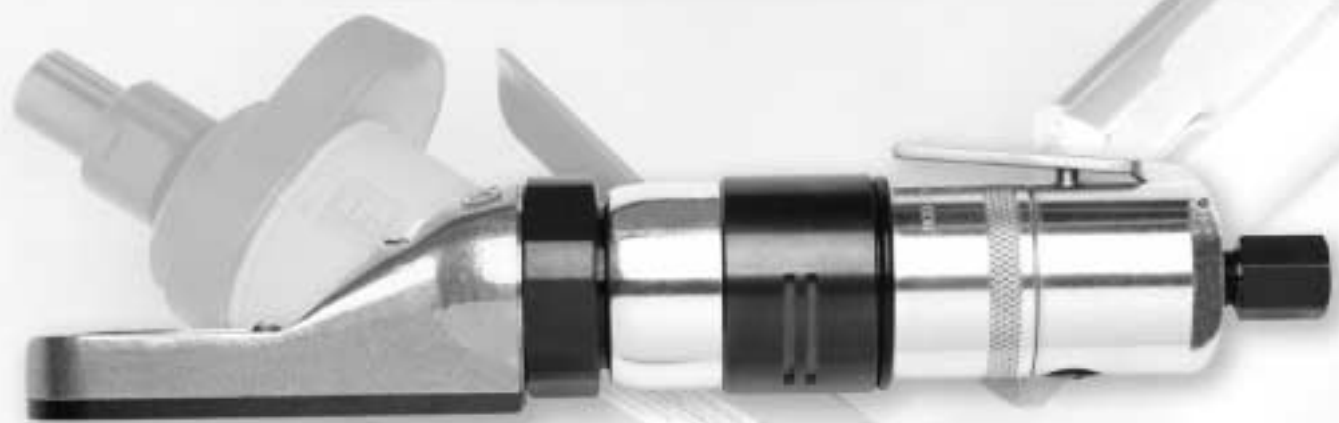
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