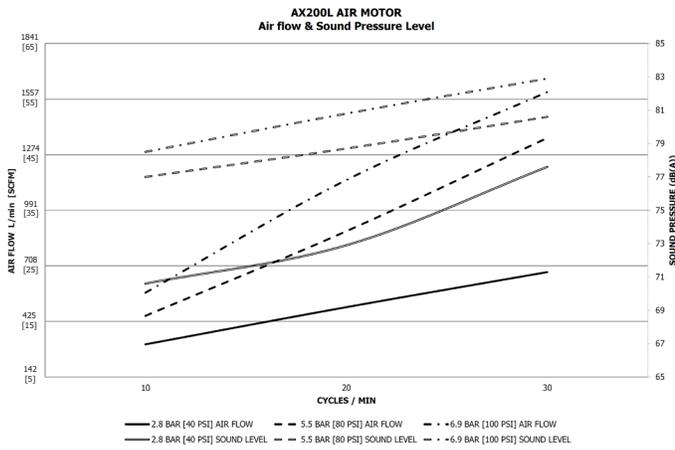


AX200L AIR MOTOR ASSEMBLIES



SPECIFICATIONS

	AX200L-5	AX200L-6	AX200L-7	AX200L-8
Maximum air inlet pressure:	5 bar [72.5 psi]	6 bar [87 psi]	7 bar [101.5 psi]	8 bar [116 psi]
Maximum recommended continuous cycle rate:	20 cycles/min [40 strokes]			
Maximum recommended intermittent cycle rate:	30 cycles/min [60 strokes]			
Air inlet connection:	3/4" BSPP / NPS (female)			
Nominal pump stroke:	127 mm [5 in]			
Maximum operating temperature:	71°C [160°F]			
Weight:	20 Kg [44 Lb]			

In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

WARNING

Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.

CAUTION

Hazards or unsafe practices which could result in minor personal injury, product or property damage.

NOTE

Important installation, operation or maintenance information.

WARNING

Read the following warnings before using this equipment.



READ THE MANUAL

Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



WEAR SAFETY GLASSES

Failure to wear safety glasses with side shields could result in serious eye injury or blindness.



DE-ENERGIZE, DEPRESSURIZE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE

Failure to De-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.



OPERATOR TRAINING

All personnel must be trained before operating finishing equipment.



EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.



KEEP EQUIPMENT GUARDS IN PLACE

Do not operate the equipment if the safety devices have been removed.



PROJECTILE HAZARD

You may be injured by venting liquids or gases that are released under pressure, or flying debris.



PINCH POINT HAZARD

Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.



AUTOMATIC EQUIPMENT

Automatic equipment may start suddenly without warning.



INSPECT THE EQUIPMENT DAILY

Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.



NEVER MODIFY THE EQUIPMENT

Do not modify the equipment unless the manufacturer provides written approval.



KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY



PRESSURE RELIEF PROCEDURE

Always follow the pressure relief procedure in the equipment instruction manual.



NOISE HAZARD

You may be injured by loud noise. Hearing protection may be required when using this equipment.



HIGH PRESSURE CONSIDERATION

High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the spray gun, hose leaks, or ruptured components can inject fluid into your body and cause extremely serious injury.



STATIC CHARGE

Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

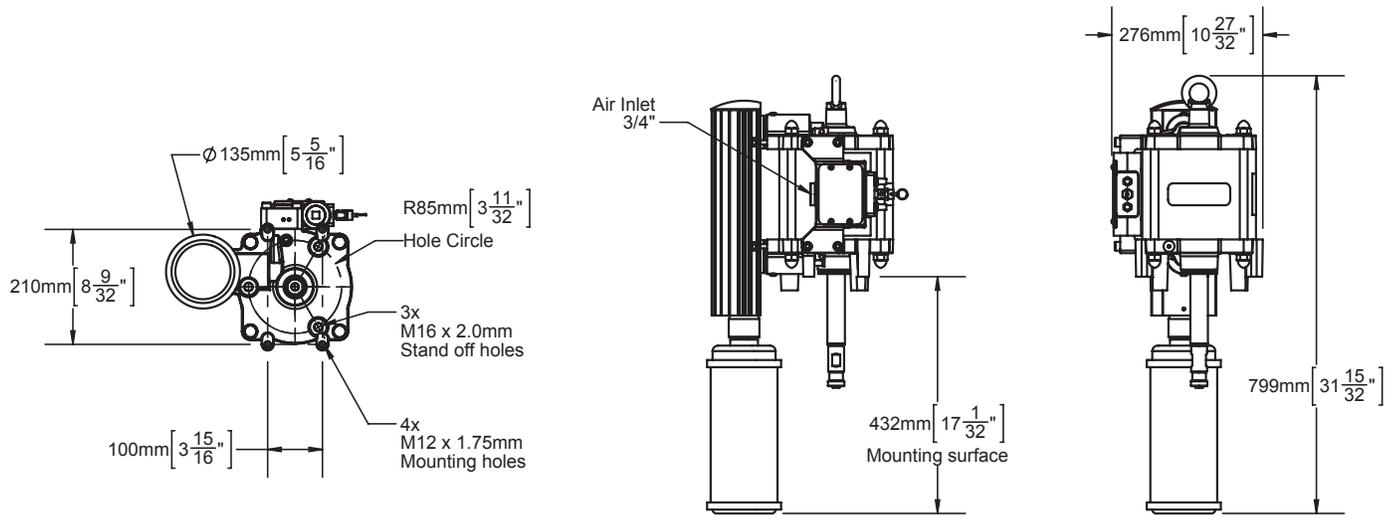


PROP 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT. FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

AX200L AIR MOTOR ASSEMBLIES



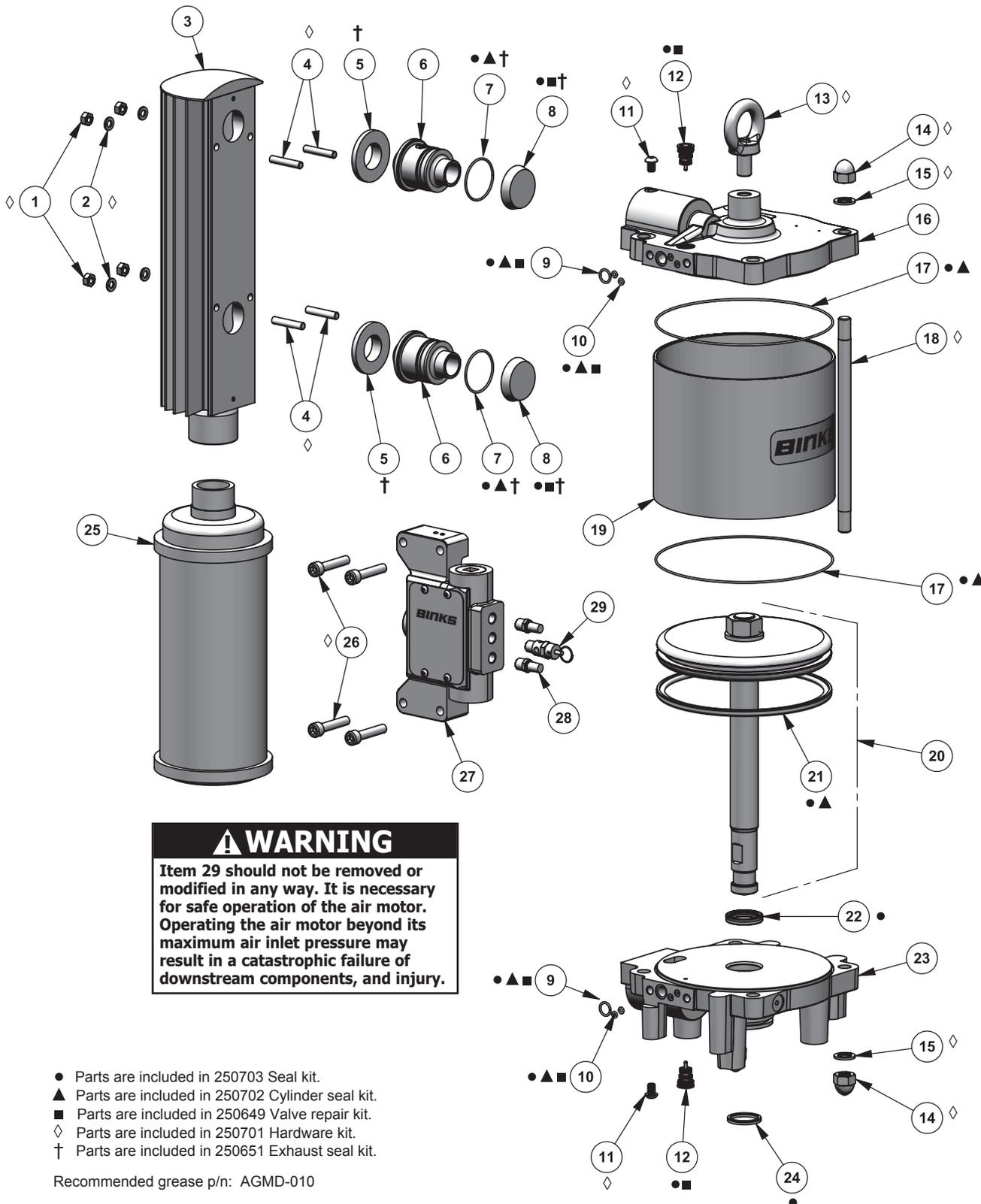
MAINTENANCE

INSPECTION	OPERATION	
Daily	Check for general air leakage and correct motor operation.	
6 Month Test	Perform a pump stall test to ensure correct operation.	
	Perform a stall test on the pump assembly. If air is escaping through exhaust, check air motor piston seal and QEV piston, replace as required.	
12 to 36 Months (Typically 10 million pump cycles, dependant on air quality)	Replace air piston seal.	Order a 250703 Seal kit.
	Replace motor rod cartridge assembly. Replace poppet assemblies.	
	Inspect and replace if required: Main valve assembly parts	Order a 250649 Valve repair kit.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
Motor will not run	No air supply.	Check air and fluid supply ball valves and supply hoses.
	Air piston seal worn.	Replace piston seal.
	Poppet assemblies are not working.	Switch/interchange poppet assemblies to isolate the faulty poppet, and clean or replace.
	Main valve assembly is not working.	Check the main valve assembly, and clean or replace.
	QEV's are not working.	Check for constant exhaust air when pump is not in a stalled condition. Check the QEV pistons, and clean or replace.
Pump runs but has excessive pulsation	Worn piston seal.	Replace piston seal.
	Worn/failed motor rod seals.	Replace motor rod cartridge assembly.
	Damaged QEV.	Inspect, clean and replace as required.
	Damaged poppet assembly.	Inspect, clean and replace as required.
	Air exhaust restricted	Inspect, clean and replace as required.

AX200L AIR MOTOR ASSEMBLIES



AX200L AIR MOTOR ASSEMBLIES

ITEM NO.	PART NO.	DESCRIPTION	QTY.	COMMENTS
1	192049	M8 HEX NUT S.S.	4	◇
2	165108	M8 SPRING WASHER S.S.	4	◇
3	193159	EXHAUST MANIFOLD ASSEMBLY	1	
4	165994	M8 x 1.25 x 44mm STUD S.S.	4	◇
5	193363	EXHAUST GASKET	2	†
6	193320	QEV CAP	2	
7	162765	O-RING 2 x 46mm	2	•▲†
8	0115-010463	QEV PISTON	2	•■†
9	162766	O-RING 2 x 13mm	2	•▲■
10	0115-010051	O-RING 2 x 4mm	4	•▲■
11	177000	M8 x 1.25 x 12mm BHCS S.S.	2	◇
12	0115-010037	POPPET ASSEMBLY	2	•■
13	193689	M16 EYEBOLT	1	◇
14	165981	M14 x 2mm DOME NUT S.S.	8	◇
15	165982	M14 SPRING WASHER	8	◇
16	193807	AX200L UPPER END CAP	1	
17	162814	O-RING 2 x 200mm	2	•▲
18	193150	AIR MOTOR TIE ROD	4	◇
19	194074	AX200L CYLINDER ASSEMBLY	1	
20	193806	AX200L PISTON ASSEMBLY	1	
21	162813	GLYDE RING ASSEMBLY	1	•▲
22	193268	MOTOR ROD AIR U-CUP SEAL	1	•
23	193821	AX200L LOWER END CAP & BEARING	1	
24	0115-010355	MOTOR ROD U-CUP SEAL	1	•
25	192509	1.5" SILENCER	1	
26	165567	M10 x 50mm SHCS S.S.	4	◇
27	0115-010471	MAIN VALVE ASSEMBLY	1	
28	0115-010443	VALVE MUFFLER	2	
29	0114-014716	MINI BLOW-OFF VALVE (5 BAR)	1	AX200L-5
	193538	MINI BLOW-OFF VALVE (6 BAR)		AX200L-6
	193539	MINI BLOW-OFF VALVE (7 BAR)		AX200L-7
	0114-014774	MINI BLOW-OFF VALVE (8 BAR)		AX200L-8
30	165990	M8 x 1.25 x 55mm SHCS S.S.	4	■◇
31	0115-010456	MANIFOLD ASSEMBLY	1	
32	0115-010460	GASKET MANIFOLD	1	•▲■
33	0115-010425	VALVE BLOCK END CAP	2	■
34	162767	O-RING 2 x 30mm	2	•▲■
35	0115-010428	MAGNET	2	■
36	0115-010427	BUMPER	2	■
37	0115-010431	SPACER	2	■
38	0115-010424	SPOOL AND SLEEVE ASSEMBLY	1	■
39	0115-010454	VALVE BLOCK	1	

- Parts are included in 250703 Seal kit.
- ▲ Parts are included in 250702 Cylinder seal kit.
- Parts are included in 250649 Valve repair kit.
- ◇ Parts are included in 250701 Hardware kit.
- † Parts are included in 250651 Exhaust seal kit.

Recommended grease p/n: AGMD-010

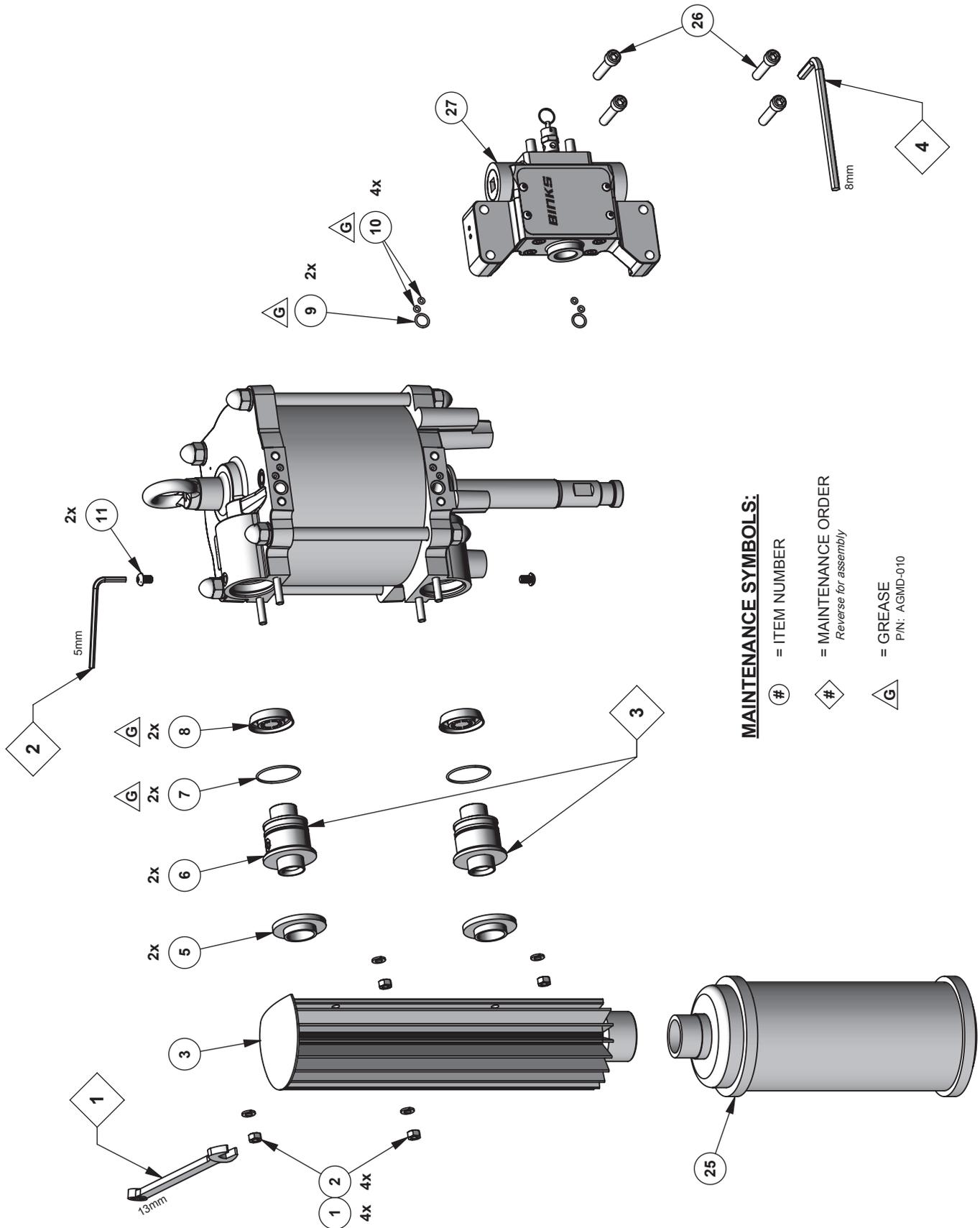
Item 21 is also contained within item 20, 193806.

Items 30 - 39 are contained within item 27, 0115-010471.

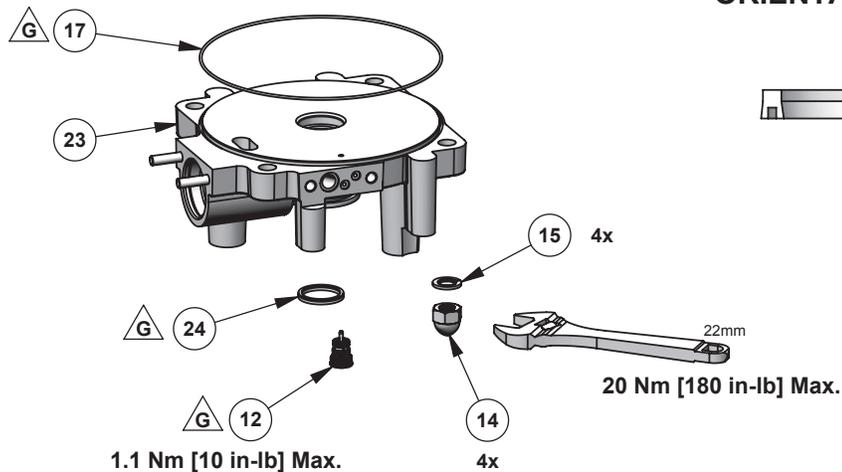
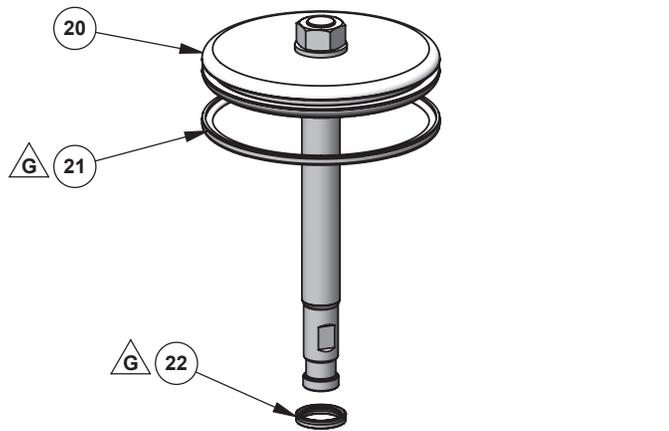
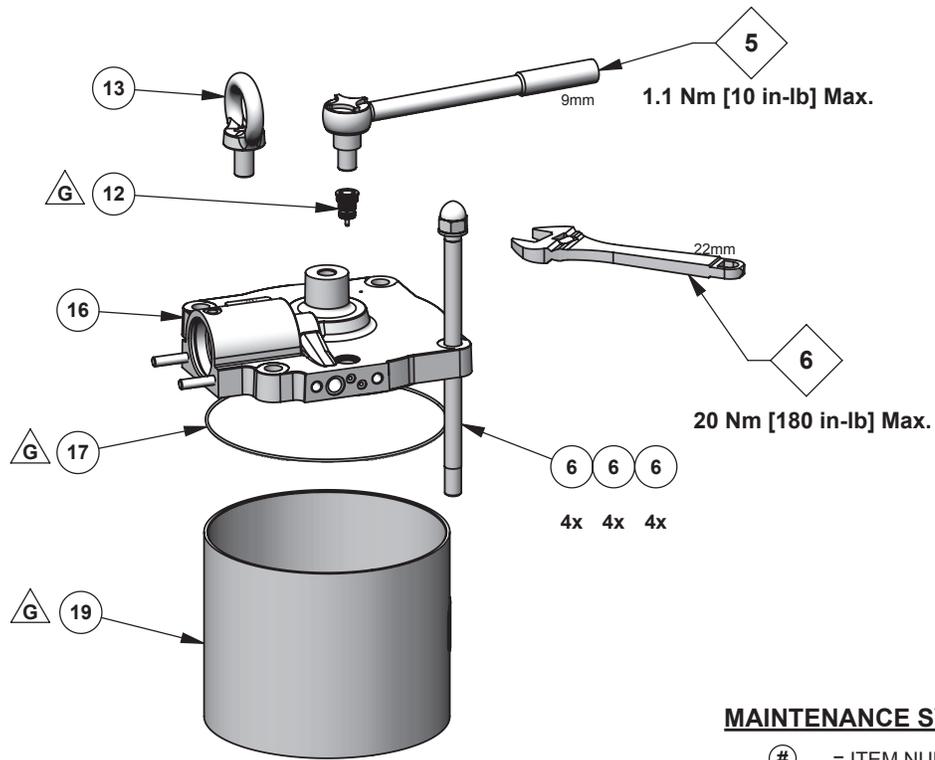
NOTE

See page 9 for kits details.

AX200L AIR MOTOR ASSEMBLIES – MAINTENANCE

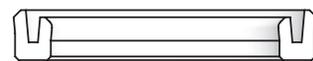


AX200L AIR MOTOR ASSEMBLIES – MAINTENANCE



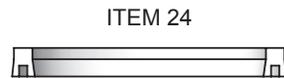
MAINTENANCE SYMBOLS:

- # = ITEM NUMBER
- # = MAINTENANCE ORDER
Reverse for assembly
- G = GREASE
P/N: AGMD-010



ITEM 22

ORIENTATION OF SEALS



ITEM 24

AX200L AIR MOTOR ASSEMBLIES – MAINTENANCE

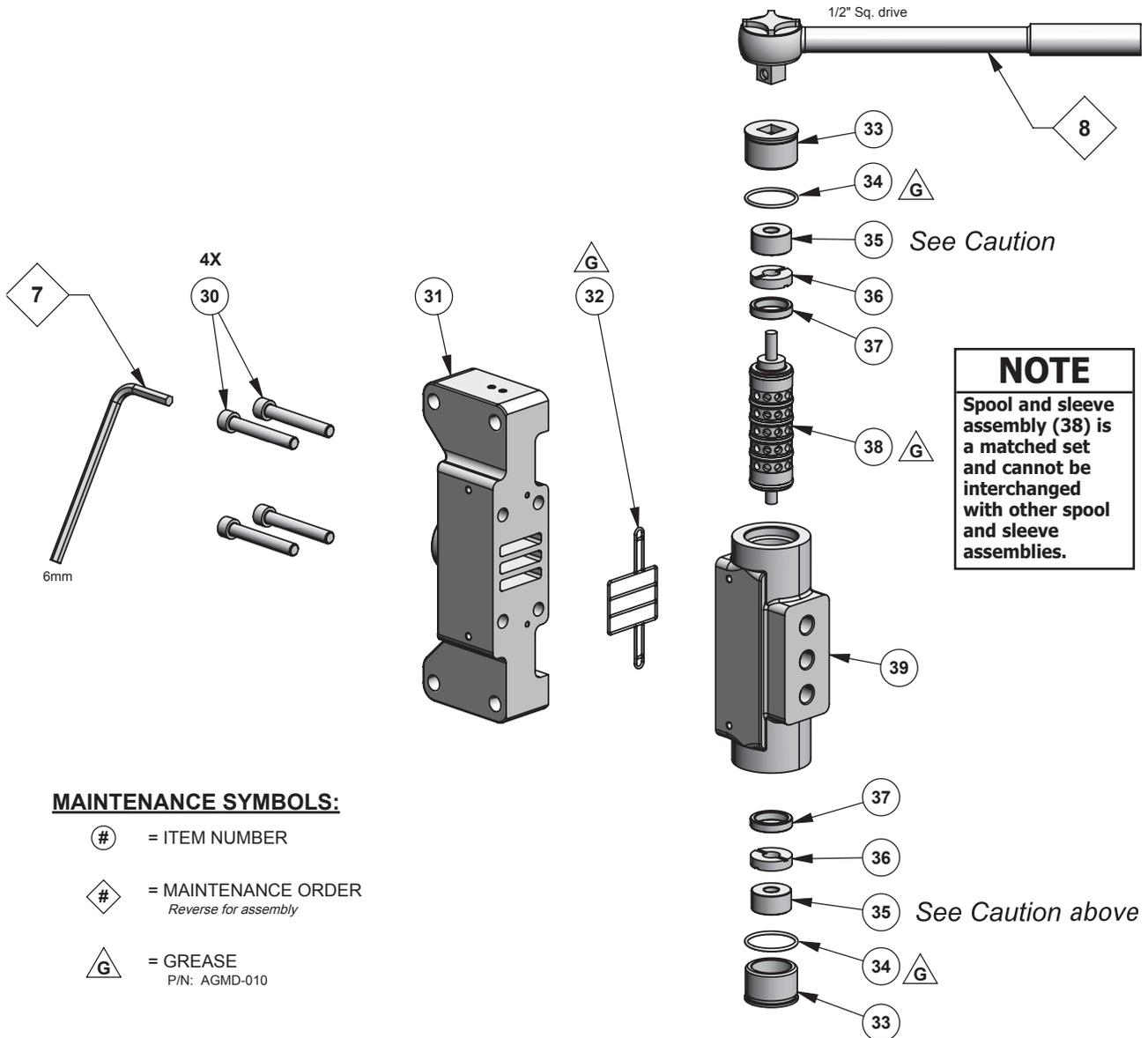
⚠ DANGER



You are in the presence of magnetic fields which may interfere with the operation of certain pacemakers.

⚠ CAUTION

Take care when handling the magnets (35). Avoid getting magnets in close proximity to each other. Injury or damage to magnets may result.



AX200L SERVICE KITS

ITEM NO.	PART NO.	DESCRIPTION	250649	250651	250701	250702	250703
			VALVE SEAL KIT	EXHAUST SEAL KIT	HARDWARE KIT	CYLINDER SEAL KIT	MOTOR SEAL KIT
1	192049	M8 HEX NUT S.S.			4		
2	165108	M8 SPRING WASHER S.S.			4		
4	165994	M8 x 1.25 x 44mm STUD S.S.			4		
5	193363	EXHAUST GASKET		2			
7	162765	O-RING 2 x 46mm		2		2	2
8	0115-010463	QEV PISTON	2	2			2
9	162766	O-RING 2 x 13mm	2			2	2
10	0115-010051	O-RING 2 x 4mm	4			4	4
11	177000	M8 x 1.25 x 12mm BHCS S.S.			2		
12	0115-010037	POPPET ASSEMBLY	2				2
13	193689	M16 EYEBOLT			1		
14	165981	M14 x 2mm DOME NUT S.S.			8		
15	165982	M14 SPRING WASHER			8		
17	162814	O-RING 2 x 200mm				2	2
18	193150	AIR MOTOR TIE ROD			4		
21	162813	GLYDE RING ASSEMBLY				1	1
22	193268	MOTOR ROD AIR U-CUP SEAL					1
24	0115-010355	MOTOR ROD U-CUP SEAL					1
26	165567	M10 x 50mm SHCS S.S.			4		
30	165990	M8 x 1.25 x 55mm SHCS S.S.	4		4		
32	0115-010460	GASKET MANIFOLD	1			1	1
33	0115-010425	VALVE BLOCK END CAP	2				
34	162767	O-RING 2 x 30mm	2			2	2
35	0115-010428	MAGNET	2				
36	0115-010427	BUMPER	2				
37	0115-010431	SPACER	2				
38	0115-010424	SPOOL AND SLEEVE ASSEMBLY	1				

WARRANTY POLICY

Binks products are covered by Carlisle Fluid Technologies one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. For specific warranty information please contact the closest Carlisle Fluid Technologies location listed below.

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