

Parts Manual
823185
04/06/2011

Cleco®

Balance Arms
Air Cylinder and Spring Models



For additional product information visit clecotools.com

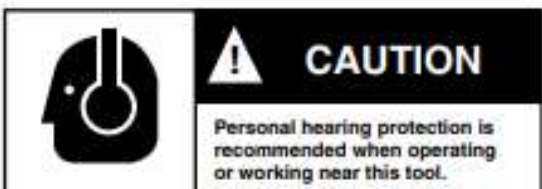
Safety Recommendations

For your safety and the safety of others, read and understand the safety recommendations and operating instructions before operating any power tool with this balance arm.

Always wear protective equipment:



For additional information on eye protection and face protection, refer to Federal OSHA Regulations, 29 Code of Federal Regulations, Section 1910.133., Eye and Face Protection, and American National Standards Institute, ANSI Z87.1, Occupational and Educational Eye and Face Protection. Z87.1 is available from the American National Standards Institute, Inc., 11 West 42nd Street, New York, NY 10036.



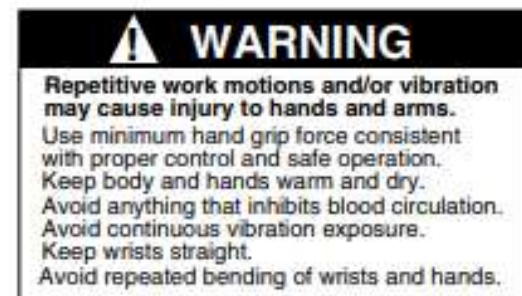
Hearing protection is recommended in high noise areas 85 dBA or greater. The operation of other tools and equipment in the area, reflective surfaces, process noises and resonant structures can substantially contribute to, and increase the noise level in the area. Excessive air pressure above 90 PSIG or worn motor components can also increase sound level emitted by tool. Proper hearing conservation measures, including annual audiograms and training in the use and fit of hearing protection devices may be necessary. For additional information on hearing protection, refer to Federal Regulations, Section 1910.95, Occupational Noise Exposure, and American National Standards Institute, ANSI S12.6, Hearing Protectors.



Keep hands and fingers away from pinch points or any placements of balance arm that will entrap hands or fingers.



Before any tool is installed in the balance arm, check the throttle (if so equipped) for proper operation (i. e., throttle moves freely and returns to closed position). Being careful not to endanger adjacent personnel, clear an air hose of accumulated dust and moisture. Before connecting a tool to an air supply or electrical circuit, removing a tool from service or changing bits or sockets, make sure the air line is shut off and drained of air or the electrical supply is shut off. This will prevent the tool from operating if the throttle is accidentally engaged.



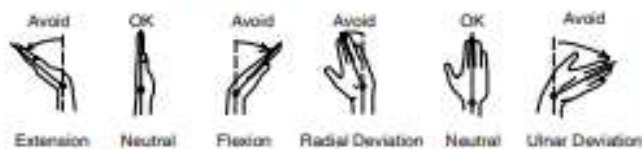
Some individuals may be susceptible to disorders of the hands and arms when performing tasks consisting of highly repetitive motions and/or exposure to extended vibration. Cumulative trauma disorders such as carpal tunnel syndrome and tendonitis may be caused or aggravated by repetitious, forceful exertions of the hands and arms. Vibration may contribute to a condition called Raynaud's Syndrome. These disorders develop gradually over periods of weeks, months, and years. It is presently unknown to what extent exposure to vibrations or repetitive motions may contribute to the disorders. Hereditary factors, vasculatory or circulatory problems, exposure to cold and dampness, diet, smoking and work practices are thought to contribute to the conditions.

Safety Recommendations

Any tool operator should be aware of the following warning signs and symptoms so that a problem can be addressed before it becomes a debilitating injury. Any user suffering prolonged symptoms of tingling, numbness, blanching of fingers, clumsiness or weakened grip, nocturnal pain in the hand, or any other disorder of the shoulders, arms, wrists, or fingers is advised to consult a physician. If it is determined that the symptoms are job related or aggravated by movements and postures dictated by the job design, it may be necessary for the employer to take steps to prevent further occurrences. These steps might include, but are not limited to, repositioning the workpiece or redesigning the workstation, reassigning workers to other jobs, rotating jobs, changing work pace, and/or changing the type of tool used so as to minimize stress on the operator. Some tasks may require more than one type of tool to obtain the optimum operator/tool/task relationship.

The following suggestions will help reduce or moderate the effects of repetitive work motions and/or extended vibration exposure:

- Use a minimum hand grip force consistent with proper control and safe operation
- Keep body and hands warm and dry (cold weather is reported to be a major factor contributing to Raynaud's Syndrome)
- Avoid anything that inhibits blood circulation
 - Smoking Tobacco (another contributing factor)
 - Cold Temperatures
 - Certain Drugs



- Tasks should be performed in such a manner that the wrists are maintained in a neutral position, which is not flexed, hyperextended, or turned side to side.
- Stressful postures should be avoided — select a tool appropriate for the job and work location
- Avoid highly repetitive movements of hands and wrists, and continuous vibration exposure (after each period of operation, exercise to increase blood circulation)
- Keep tool well maintained and replace worn parts

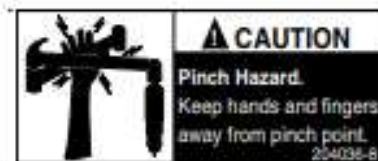
Work gloves with vibration reducing liners and wrist supports are available from some manufacturers of industrial work gloves. Tool wraps and grips are also available from a number of different manufacturers. These gloves, wraps, and wrist supports are designed to reduce and moderate the effects of extended vibration exposure and repetitive wrist trauma. Since they vary widely in design, material, thickness, vibration reduction, and wrist support qualities, it is recommended that the glove, tool wrap, or wrist support manufacturer be consulted for items designed for your specific application. **WARNING! Proper fit of gloves is important. Improperly fitted gloves may restrict blood flow to the fingers and can substantially reduce grip strength.**

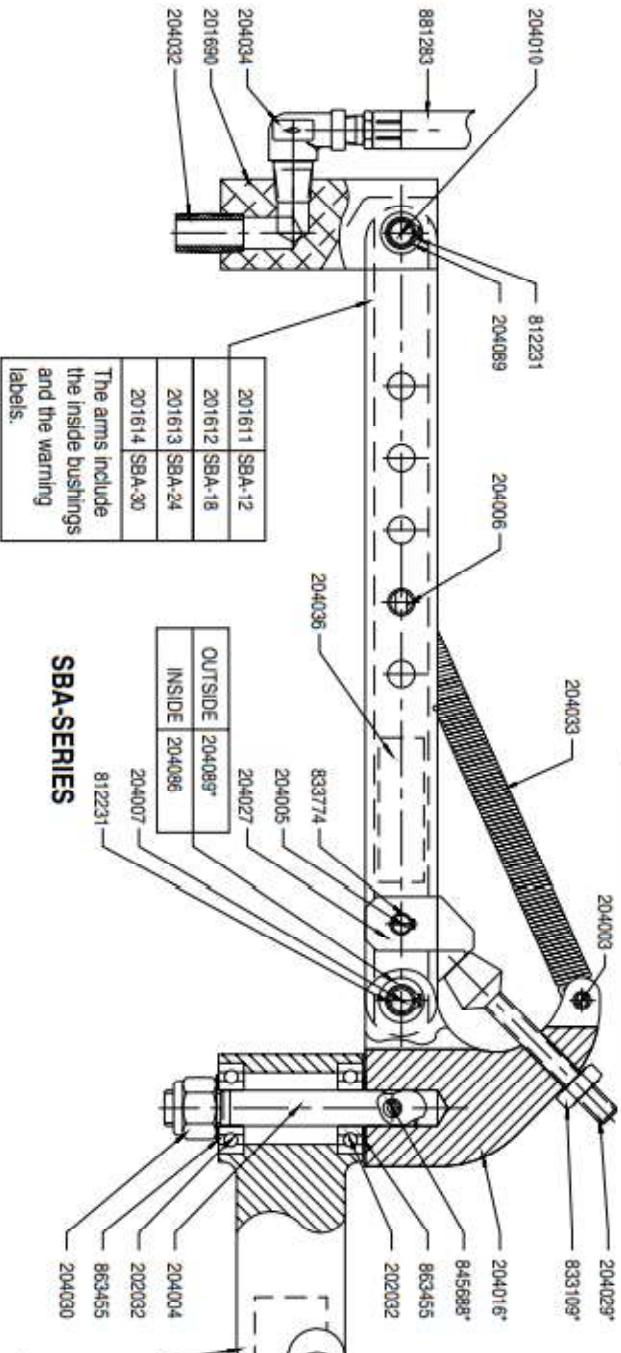
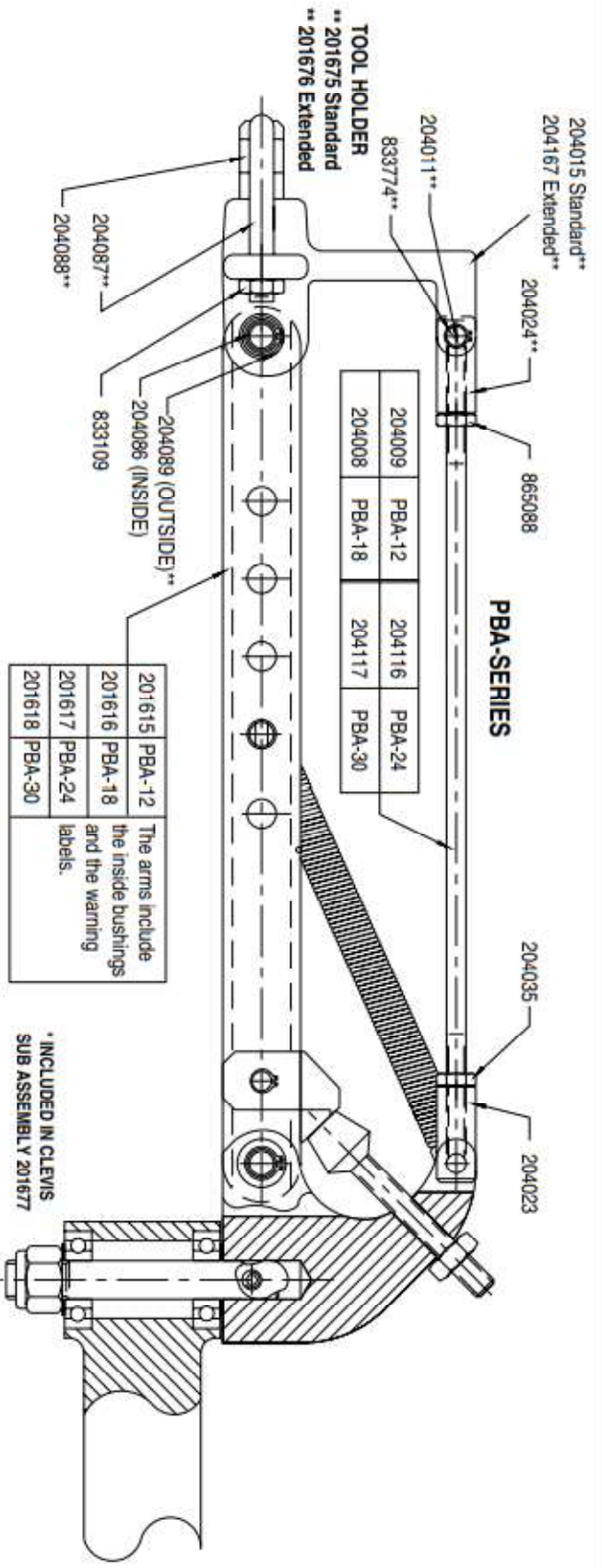
For more information on the safe use of portable air tools, see the latest edition of ANSI B186.1, Safety Code for Portable Air Tools, available from the American National Standards Institute, Inc. 11 West 42nd Street, New York, NY 10036.

This information is a compilation of general safety practices obtained from various sources available at the date of production. However, our company does not represent that every acceptable safety practice is offered herein, or that abnormal or unusual circumstances may not warrant or require additional procedures. Your work may require additional specific safety procedures. Follow these procedures as required by your company.

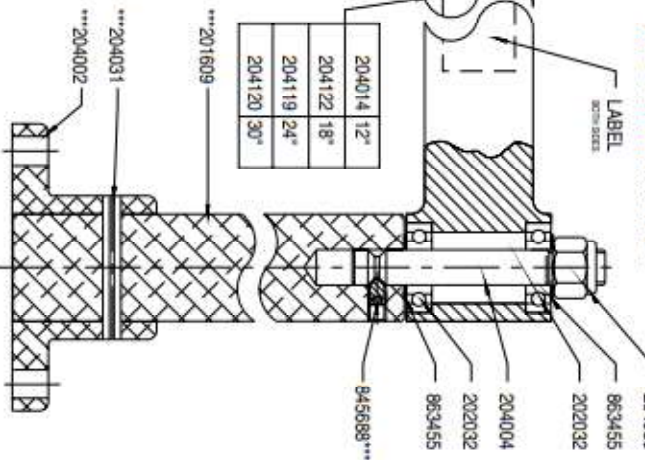
Warning Labels

The warning labels found on these tools are an essential part of this product. Labels should not be removed. Labels should be checked periodically for legibility. Replace warning labels when missing or when the information can no longer be read. Replacement labels can be ordered as any spare part.





NOTE: THRUST WASHERS 863455 MUST BE INSTALLED PROPERLY AS SHOWN BELOW OR BEARINGS WILL BE DAMAGED.



**CLECO BALANCE ARMS
MODEL PBA & SBA PARTS LIST**

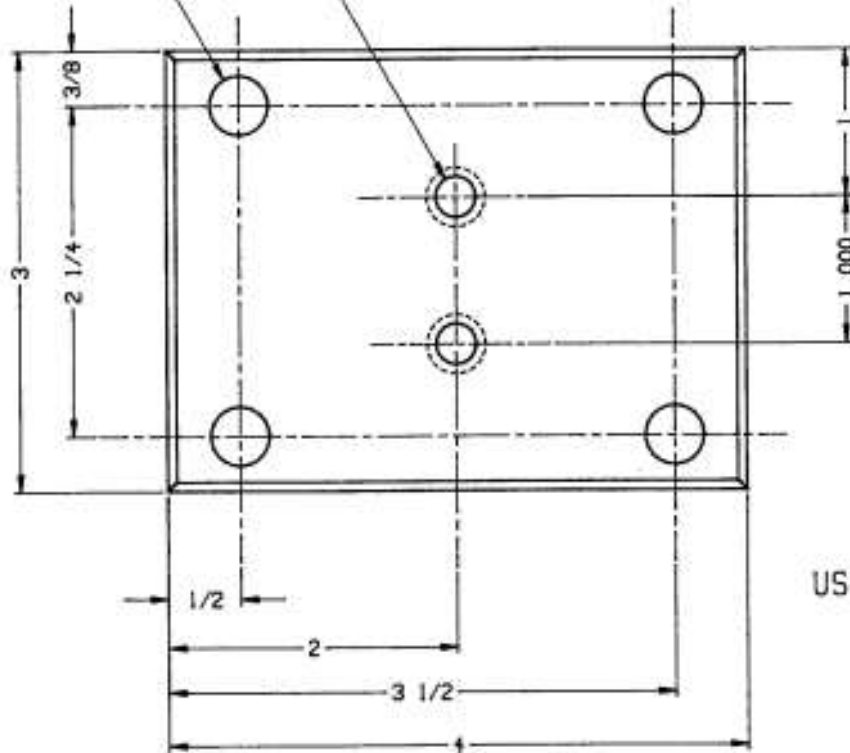
PART NO.	DESCRIPTION	QTY.
201609	Post Subassembly	1
201611	Arm (17-1/2" Long) SBA-18	1
201612	Arm (11-1/2" Long) SBA-12	1
201613	Arm (23-1/2" Long) SBA-24	1
201614	Arm (29-1/2" Long) SBA-30	1
201615	Arm (17-1/2" Long) PBA-18	1
201616	Arm (11-1/2" Long) PBA-12	1
201617	Arm (23-1/2" Long) PBA-24	1
201618	Arm (29-1/2" Long) PBA-30	1
201675	Standard Tool Holder Subassembly	1
201676	Extended Tool Holder Subassembly	1
201677	Clevis Subassembly	1
201690	SBA Tool Holder (Manifold Style) (INCL. 204032, 204034, 204089)	1
202032	Bearing	4
204003	Clevis Spring Pin	1
204004	Pivot Post Pin	2
204005	Plastic Stop Pin	1
204006	Arm Spring Pin	1
204007	Pivot Pin	1
204008	Parallel Rod (15 -1/2" Long)	1
204009	Parallel Rod (9 -1/2" Long)	1
204010	Manifold Pivot Pin	1
204011	Parallel Pivot Pin	1
204014	Articulating Arm (12")	1
204015	Standard Parallel Tool Holder (INCL. 204089)	1
204016	Spring Arm Clevis (INCL. 204089 & 845688)	1
204023	Left Rod Clevis	1
204024	Right Rod Clevis	1
204027	Plastic Clip	1
204029	Rubber Spindle	1
204030	1/2" -13 Nylon Insert Jam Nut	1
204032	1/4" Close Brass Nipple	1
204033	Extension Spring	2
204034	1/4 x 1/4 90° Hose Elbow	1
204035	Right Rod Clevis Lock Nut	1
204036	Warning Label	2
204086	Bushing (Inside) (SBA 1 Only)	2
204087	Parallel Tool Holder - U Bolt W/Nuts	1
204088	Parallel Tool Holder - Plastic Clip	1
204089	Bushing (Outside)	4
204116	Parallel Rod (21 -1/2" Long)	1
204117	Parallel Rod (27 -1/2" Long)	1
204119	Articulating Arm (24")	1
204120	Articulating Arm (30")	1
204122	Articulating Arm (18")	1
204167	Extended Parallel Tool Holder (INCL. 204089)	1
812231	Retaining Ring	4
833109	Spindle Nut	1
833774	Retainer Ring (2 Only for SBA series)	4
845688	1/4" -20 x 3/8" Lg. Cone Pt. Set Screw	2
863455	Thrust Washer	4
865088	Left Rod Clevis Lock Nut	1
881283	1/4" I.D. Air Hose— 8 feet	1

Template for Wall & Post Mount

13/32 DRILL THRU
4-PLACES

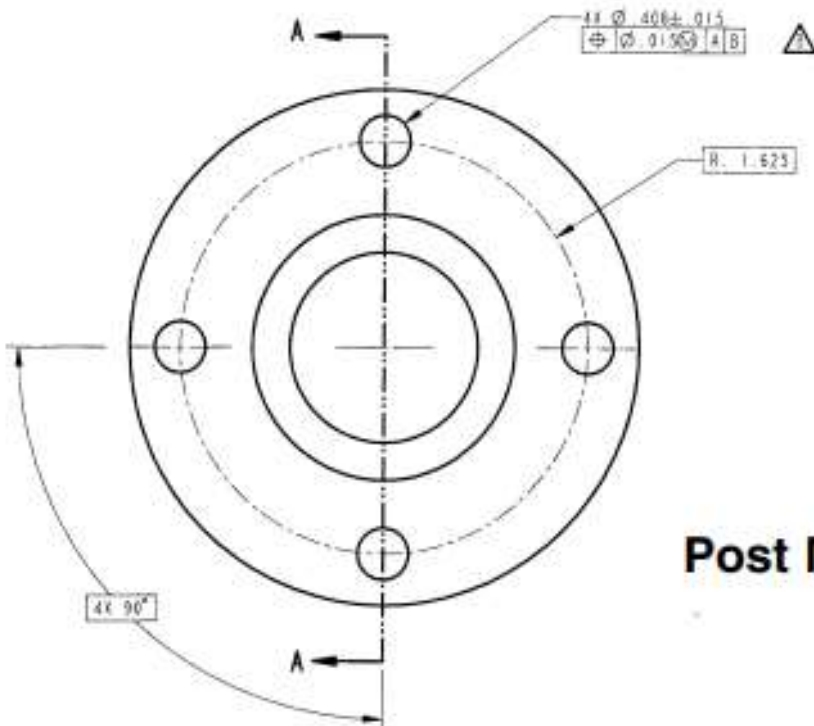
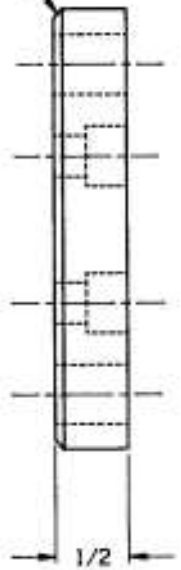
13/32 DIA. X 9/32 DEEP
9/32 DRILL THRU
2 PLACES - FROM OPPOSITE SIDE

1/16 X 45°
ALL AROUND

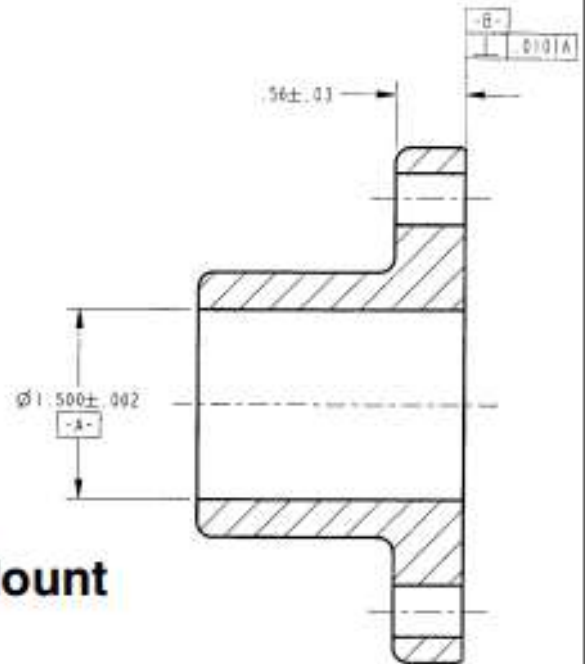


USED ON 201600

Wall



Post Mount



SECTION A-A

Sales & Service Centers

Note: All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

 Sales Center
 Service Center

NORTH AMERICA | SOUTH AMERICA

Detroit, Michigan

Apex Tool Group
2630 Superior Court
Auburn Hills, MI 48236
Phone: +1 (248) 393-6644
Fax: +1 (248) 391-6296

Lexington, South Carolina

Apex Tool Group
670 Industrial Drive
Lexington, SC 29072
Phone: +1 (803) 845-6629
Phone: +1 (919) 387-0099
Fax: +1 (803) 358-7681

Mexico

Apex Tool Group
Vialidad El Pueblito #103
Parque Industrial Querétaro
Querétaro, QRO 76220
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Phone: +52 (442) 211 3900
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Fax: +44 1827 8741 28

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Fax: +33 1 64 43 17 17

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73463 Westhausen
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Fax: +49 (0) 73 63 81 222

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Fax: +36 96 66 1135

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177 Bi Bo Road
Pu Dong New Area, Shanghai
China 201203 P.R.C.
Phone: +86 21 60880320
Fax: +86 21 60880298

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Fax: +81-3-6450-1841

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