

Safety – Operation – Maintenance

Keep this document in a safe place

Read and understand this manual before operating your air tool

CLAYTON
Dustless Made Simple™

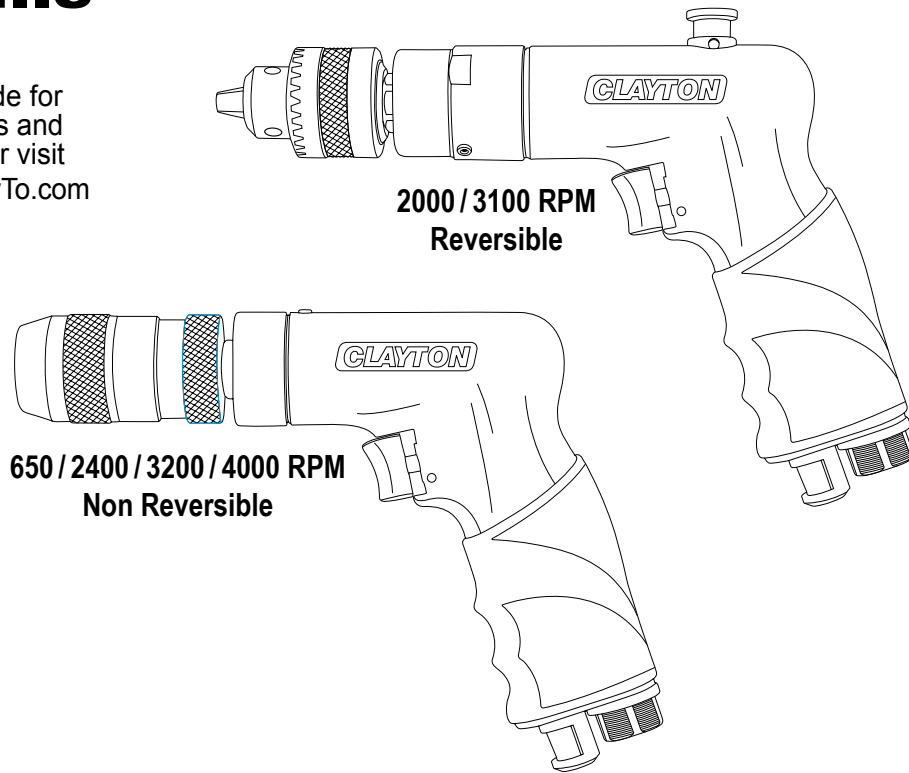
Aerolite Drills

Drill Models 690-800-XXXX



Scan this QR code for
online instructions and
documentation, or visit
www.ClaytonHowTo.com

CE



⚠ WARNING

Follow all safety rules for the protection of operating personnel as well as adjacent areas. Always inspect and maintain this tool before use. Clayton Dust Collection Shrouds are designed for use with a variety of air tools. Please refer to the Air Tool Manufacturer's Documentation for Safety, Operations and Maintenance of all air tools used in conjunction with Clayton Dust Collection Shrouds.

SAFETY LEGEND



⚠ WARNING

Read and understand operator's manual before using this equipment.



⚠ WARNING

Eye protection is required when operating this equipment.



⚠ WARNING

Hearing protection is recommended when operating this equipment.



⚠ WARNING

Respiratory protection is recommended when operating this equipment.

⚠ WARNING

Some dust created by sanding, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Chromium and other heavy metals from paint and primers

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

SAFETY INSTRUCTIONS

Carefully read all instructions before operating any Tool.

Products offered by Clayton should not be modified, converted or otherwise altered from the original design without express written consent from Clayton Associates, Inc.

Do not use this tool for anything other than its intended applications.

This tool is not intended for use in potentially explosive atmospheres and is not insulated against contact with electrical power.

Accessories Bits

- Before mounting accessories, visually inspect for defects. Do not use defective accessories.
- Follow tool specifications before choosing size and type of accessory

WARNING

- Always wear eye protection. Operator of tool is responsible for following: eye, face, respiratory, hearing and body protection.

CAUTION

- Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.
- Keep hand and clothing away from working end of the tool
- Be sure that any loose clothing, hair and all jewelry is properly restrained

CAUTION

- Disconnect air hose from tool when changing bits or otherwise handling the working end of the tool

CAUTION

DO NOT USE if tool vibration is excessive. Correct cause, and retest to ensure safe operation

- Make sure that work area is uncluttered, and others are at a safe range from the tools and debris
- Use a vise or clamping device to hold work piece firmly in place
- Do not apply excessive force on tool or apply "rough" treatment to it
- Potentially explosive atmospheres can be caused by dust and fumes resulting from sanding or grinding. Always use dust extraction or suppression systems which are suitable for the material being processed

MAINTENANCE INSTRUCTIONS

Important

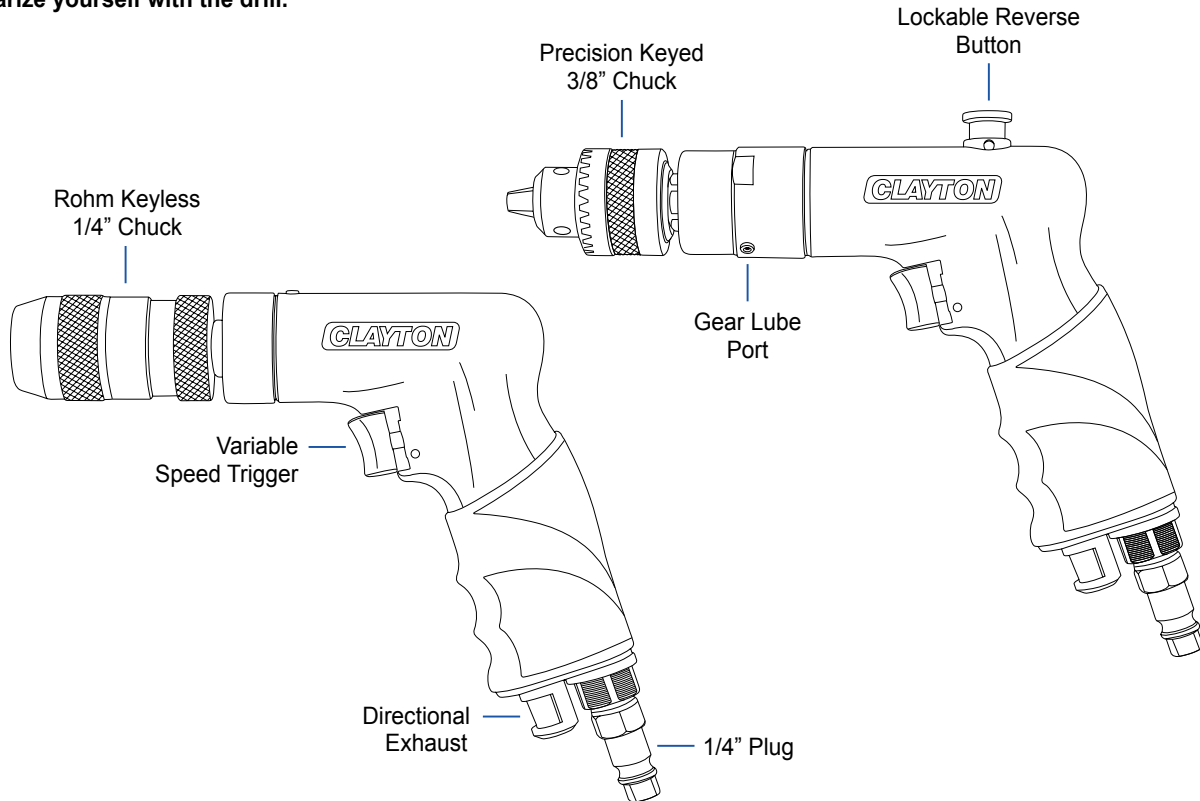
A Preventative Maintenance Program is recommended whenever portable power tools are used.

Routine Maintenance

- Use only genuine Clayton replacement parts to ensure quality
- Clean the tool with a damp cloth. Do not use petroleum based cleaners
- Visually inspect for visible damage and signs of deterioration. Replace damaged or worn components before use
- Apply 2 drops of air tool oil every 8 hours of use

WHAT'S IN THE BOX

1. Remove and identify the drill and accessories included in the box.
2. Visually inspect drill to guarantee that no parts are missing or damaged.
3. Familiarize yourself with the drill.



SPECIFICATIONS & REQUIREMENTS

690-800-650 650 rpm
 Weight 2.17 lbs
 Dimensions 7.5 x 5.5 in
 Consumption 20 cfm @ 90 psi
 Power 0.XX hp
 Torque..... 70 in/lbs
 Sound <70 dBA

690-800-2400 2400 rpm
 Weight 1.96 lbs
 Dimensions 6.75 x 5.25 in
 Consumption 20 cfm @ 90 psi
 Power 0.5hp
 Torque..... XX ft/lbs
 Sound <70 dBA

690-800-3200 3200 rpm
 Weight 1.85 lbs
 Dimensions 6.25 x 5.25 in
 Consumption 20 cfm @ 90 psi
 Power 0.XX hp
 Torque..... XX ft/lbs
 Sound <70 dBA

690-800-4000 4000 rpm
 Weight 1.85 lbs
 Dimensions 6.25 x 5.5 in
 Consumption 20 cfm @ 90 psi
 Power 0.XX hp
 Torque..... XX ft/lbs
 Sound <70 dBA

690-800-2000R..... 2000 rpm
 Weight 1.65 lbs
 Dimensions 6.5 x 6 in
 Consumption 20 cfm @ 90 psi
 Power 0.XX hp
 Torque..... XX ft/lbs
 Sound <70 dBA

690-800-3100R..... 3100 rpm
 Weight 1.68 lbs
 Dimensions 6.5 x 6 in
 Consumption 20 cfm @ 90 psi
 Power 0.XX hp
 Torque..... XX ft/lbs
 Sound <70 dBA

ILLUSTRATED PARTS BREAKDOWN

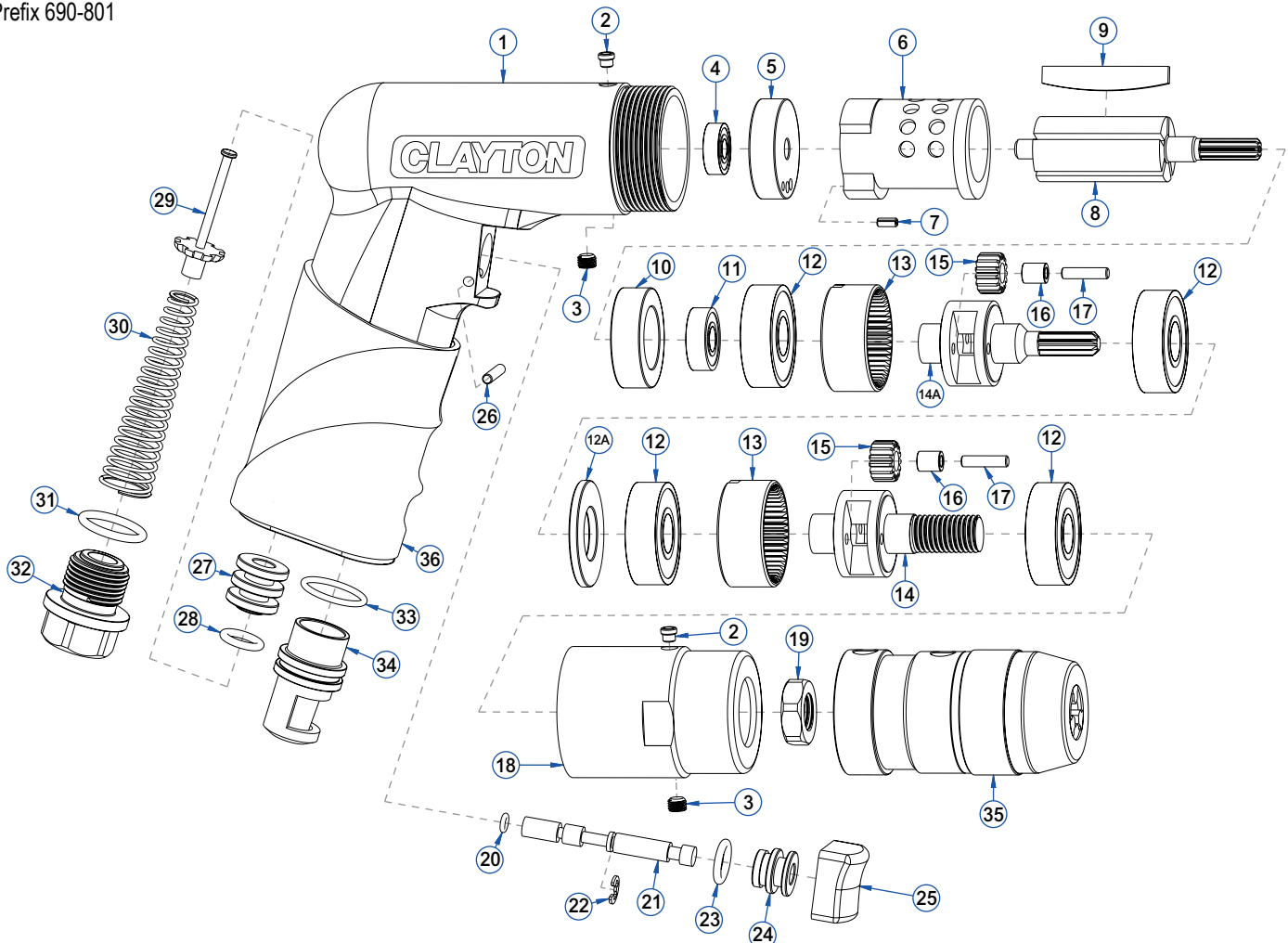
690-800-650

Non-Reversible Drill 650 RPM

Seq	Item No	Description
1	690-801-1	Motor Housing
2	690-801-2	Grease Fitting
3	690-801-3	Set Screw
4	690-801-4	Ball Bearing
5	690-801-5	Rear End Plate
6	690-801-6	Cylinder
7	690-801-7	Pin
8	690-801-8	Rotor
8A	690-801-8A	Detachable Pinion
9	690-801-9	Blades
10	690-801-10	Front Plate
11	690-801-11	Ball Bearing
12	690-801-12	Ball Bearing
12A	690-801-12A	Space
13	690-801-13	Ring Gear
14	690-801-14	Planet Cage
14A	690-801-14A	Planet Cage
15	690-801-15	Planet Gear
16	690-801-16	Needle Bearing

Seq	Item No	Description
17	690-801-17	Pin
18	690-801-18	Lock Ring
19	690-801-19	Hex Spacer
20	690-801-20	O-Ring
21	690-801-21	Valve Stem
22	690-801-22	Snap Ring
23	690-801-23	O-Ring
24	690-801-24	Valve Bushing
25	690-801-25	Trigger
26	690-801-26	Pin
27	690-801-27	Valve Bushing
28	690-801-28	O-Ring
29	690-801-29	Tip Valve
30	690-801-30	Valve Spring
31	690-801-31	O-Ring
32	690-801-32	Air Inlet
33	690-801-33	O-Ring
34	690-801-34	Muffler
35	690-810	1/4" Drill Chuck

* Prefix 690-801



ILLUSTRATED PARTS BREAKDOWN

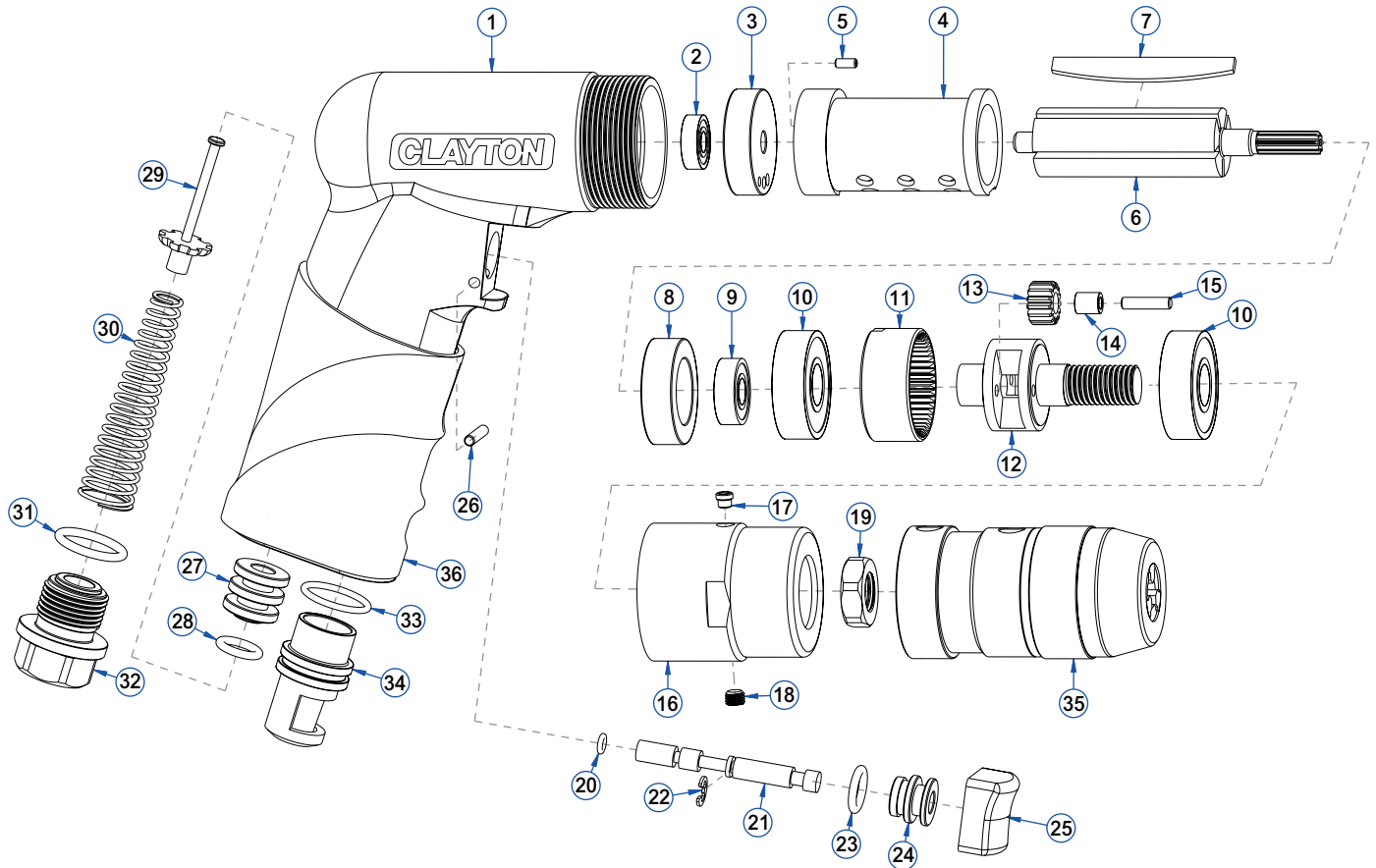
690-800-2400

Non-Reversible Drill 2400 RPM

Seq	Item No	Description
1	690-802-1	Motor Housing
2	690-802-2	Ball Bearing
3	690-802-3	Rear End Plate
4	690-802-4	Cylinder
5	690-802-5	Pin
6	690-802-6	Rotor
7	690-802-7	Vanes
8	690-802-8	Front Plate
9	690-802-9	Ball Bearing
10	690-802-10	Ball Bearing
11	690-802-11	Ring Gear
12	690-802-12	Carrier
13	690-802-13	Idler Gear
14	690-802-14	Needle Bearing
15	690-802-15	Pin
16	690-802-16	Motor Lock Nut
17	690-802-17	Grease Fitting
18	690-802-18	Set Screw

Seq	Item No	Description
19	690-802-19	Hex Nut
20	690-802-20	O-Ring
21	690-802-21	Valve Stem
22	690-802-22	Snap Ring
23	690-802-23	O-Ring
24	690-802-24	Valve Bushing
25	690-802-25	Trigger
26	690-802-26	Pin
27	690-802-27	Valve Bushing
28	690-802-28	O-Ring
29	690-802-29	Tip Valve
30	690-802-30	Valve Spring
31	690-802-31	O-Ring
32	690-802-32	Inlet
33	690-802-33	O-Ring
34	690-802-34	Muffler
35	690-810	1/4" Drill Chuck

* Prefix 690-802



ILLUSTRATED PARTS BREAKDOWN

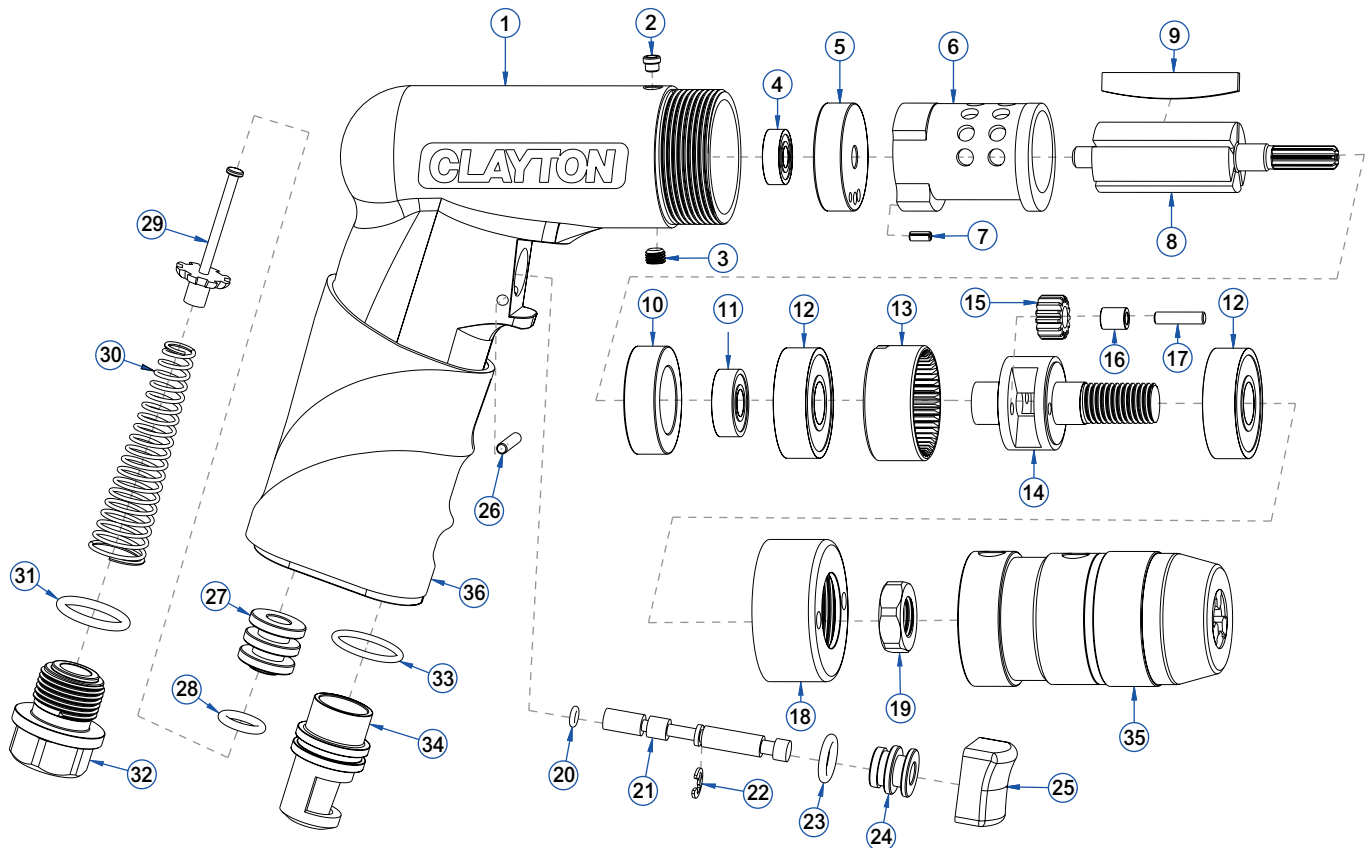
690-800-3200

Non-Reversible Drill 3200 RPM

Seq	Item No	Description
1	690-803-1	Motor Housing
2	690-803-2	Grease Fitting
3	690-803-3	Set Screw
4	690-803-4	Ball Bearing
5	690-803-5	Rear End Plate
6	690-803-6	Cylinder
7	690-803-7	Pin
8	690-803-8	Rotor
9	690-803-9	Vanes
10	690-803-10	Front Plate
11	690-803-11	Ball Bearing
12	690-803-12	Ball Bearing
13	690-803-13	Ring Gear
14	690-803-14	Carrier
15	690-803-15	Planet Gear
16	690-803-16	Needle Bearing
17	690-803-17	Planet Pin
18	690-803-18	Cap

Seq	Item No	Description
19	690-803-19	Hex Nut
20	690-803-20	O-Ring
21	690-803-21	Valve Stem
22	690-803-22	Retaining Ring
23	690-803-23	O-Ring
24	690-803-24	Valve Bushing
25	690-803-25	Trigger
26	690-803-26	Pin
27	690-803-27	Valve Set
28	690-803-28	O-Ring
29	690-803-29	Tip Valve
30	690-803-30	Valve Spring
31	690-803-31	O-Ring
32	690-803-32	Air Inlet
33	690-803-33	O-Ring
34	690-803-34	Muffler
35	690-810	1/4" Cap. Drill Chuck with Key

* Prefix 690-803



ILLUSTRATED PARTS BREAKDOWN

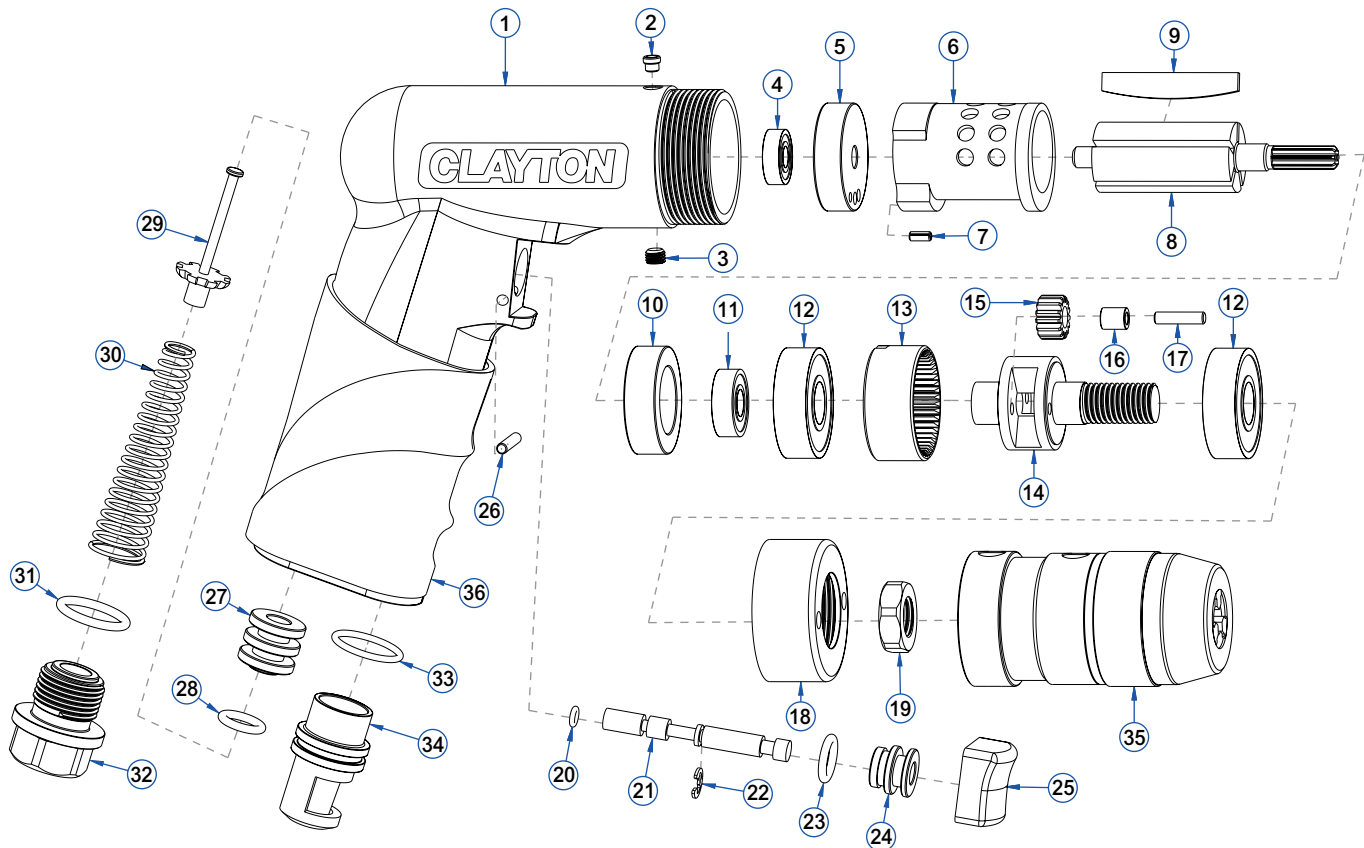
690-800-4000

Non-Reversible Drill 4000 RPM

Seq	Item No	Description
1	690-804-1	Motor Housing
2	690-804-2	Grease Fitting
3	690-804-3	Set Screw
4	690-804-4	Ball Bearing
5	690-804-5	Rear End Plate
6	690-804-6	Cylinder
7	690-804-7	Pin
8	690-804-8	Rotor
9	690-804-9	Vanes
10	690-804-10	Front Plate
11	690-804-11	Ball Bearing
12	690-804-12	Ball Bearing
13	690-804-13	Ring Gear
14	690-804-14	Carrier
15	690-804-15	Planet Gear
16	690-804-16	Needle Bearing
17	690-804-17	Planet Pin
18	690-804-18	Cap

Seq	Item No	Description
19	690-804-19	Hex Nut
20	690-804-20	O-Ring
21	690-804-21	Valve Stem
22	690-804-22	Retaining Ring
23	690-804-23	O-Ring
24	690-804-24	Valve Bushing
25	690-804-25	Trigger
26	690-804-26	Pin
27	690-804-27	Valve Set
28	690-804-28	O-Ring
29	690-804-29	Tip Valve
30	690-804-30	Valve Spring
31	690-804-31	O-Ring
32	690-804-32	Air Inlet
33	690-804-33	O-Ring
34	690-804-34	Muffler
35	690-810	1/4" Cap. Drill Chuck with Key

* Prefix 690-804



ILLUSTRATED PARTS BREAKDOWN

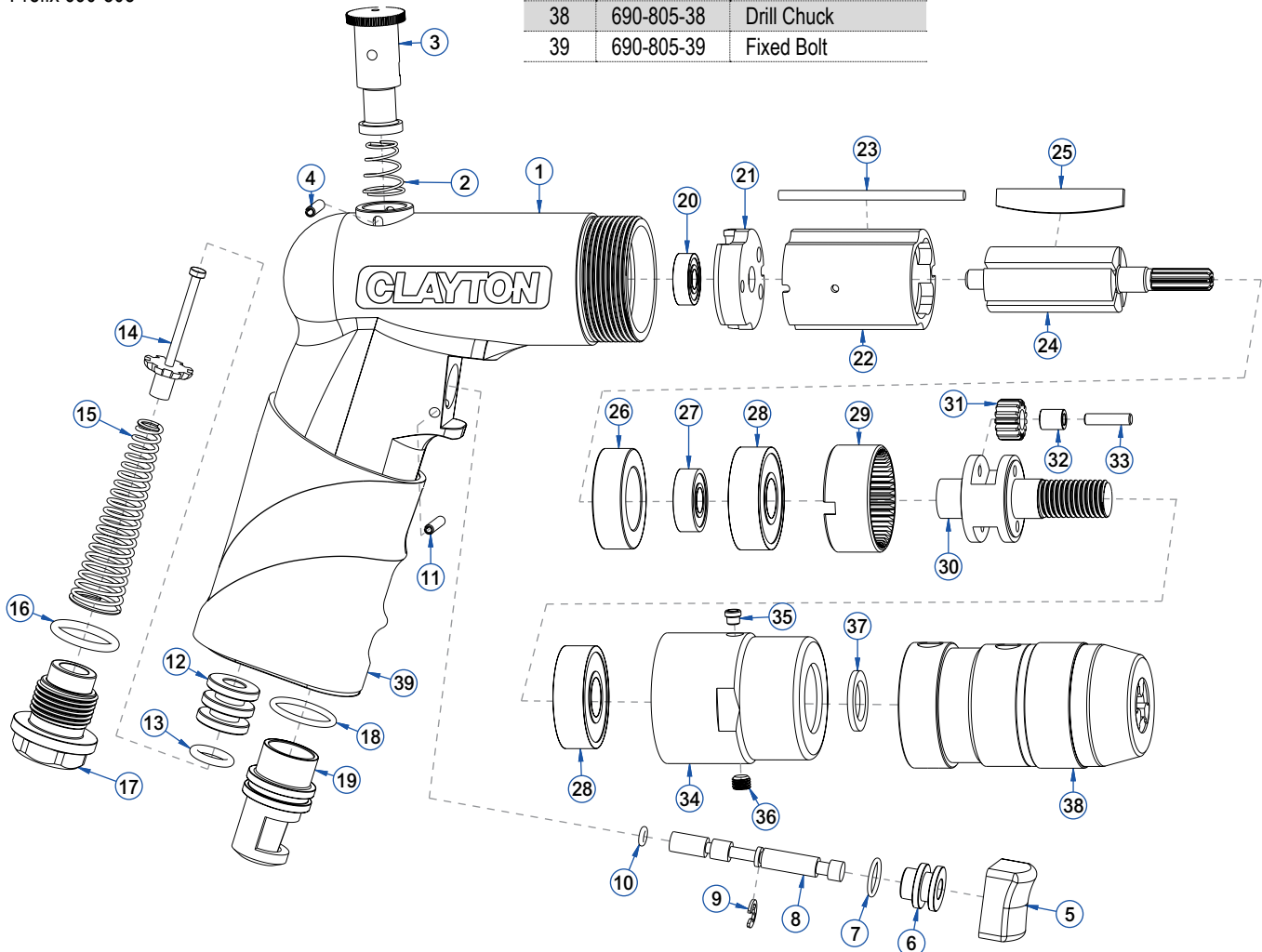
690-800-2000R

Reversible Drill 2000 RPM

Seq	Item No	Description
1	690-805-1	Motor Housing
2	690-805-2	Reverse Button Spring
3	690-805-3	Reverse Button
4	690-805-4	Locating Pin
5	690-805-5	Trigger
6	690-805-6	Valve Bushing
7	690-805-7	O-Ring
8	690-805-8	Valve Stem
9	690-805-9	Retaining Ring
10	690-805-10	O-Ring
11	690-805-11	Pin
12	690-805-12	Valve Set
13	690-805-13	O-Ring
14	690-805-14	Tip Valve
15	690-805-15	Valve Spring
16	690-805-16	O-Ring
17	690-805-17	Air Inlet
18	690-805-18	O-Ring

Seq	Item No	Description
19	690-805-19	Muffler
20	690-805-20	Ball Bearing
21	690-805-21	Rear End Plate
22	690-805-22	Cylinder
23	690-805-23	Locating Pin
24	690-805-24	Rotor
25	690-805-25	Van
26	690-805-26	Front Plate
27	690-805-27	Ball Bearing
28	690-805-28	Ball Bearing
29	690-805-29	Ring Gear </td
30	690-805-30	Carrier
31	690-805-31	Idle Gear
32	690-805-32	Needle Bearing
33	690-805-33	Pin
34	690-805-34	Planetary Housing
35	690-805-35	Grease Fitting
36	690-805-36	Set Screw
37	690-805-37	Washer
38	690-805-38	Drill Chuck
39	690-805-39	Fixed Bolt

* Prefix 690-805



ILLUSTRATED PARTS BREAKDOWN

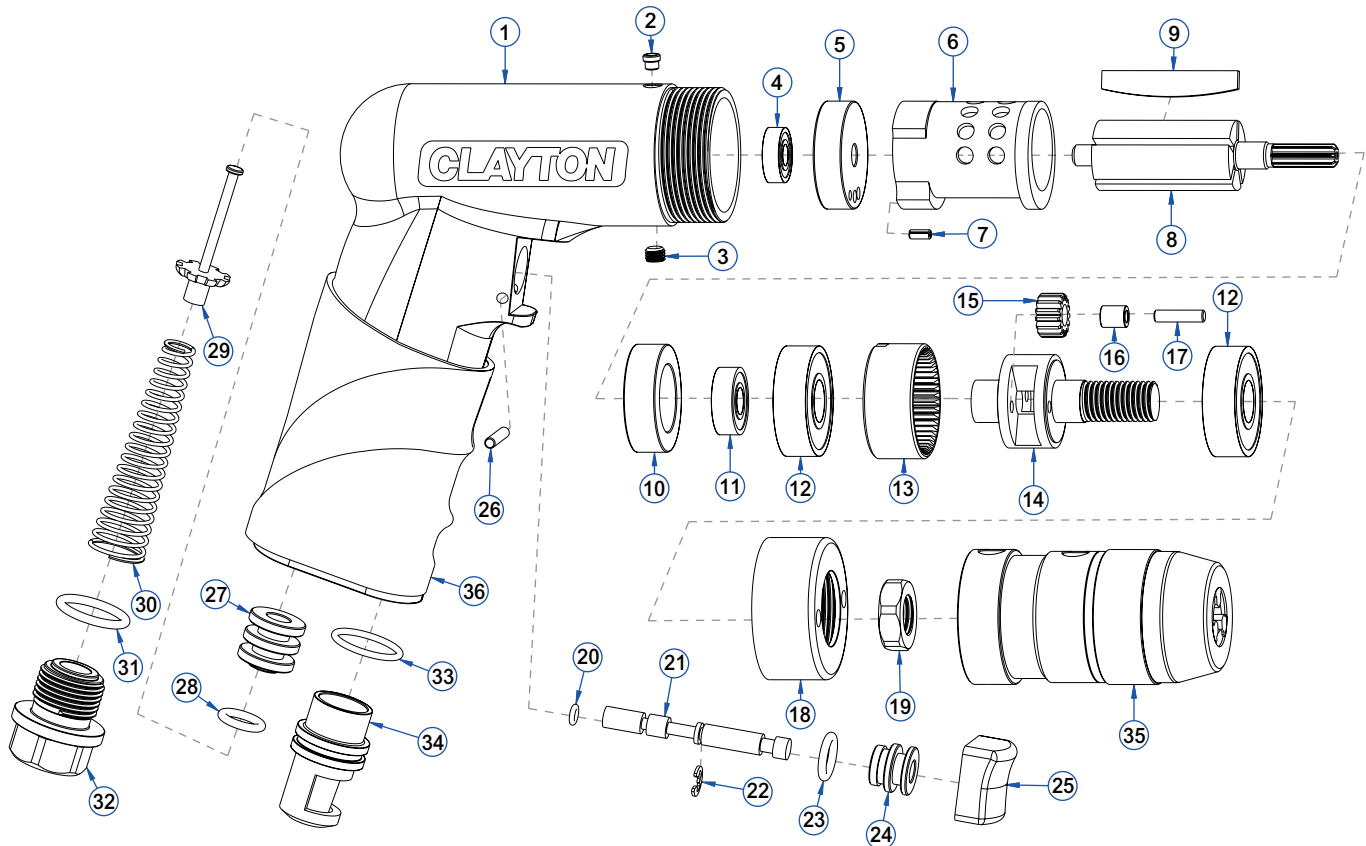
690-800-3100R

Reversible Drill 3100 RPM

Seq	Item No	Description
1	690-806-1	Motor Housing
2	690-806-2	Reverse Button Spring
3	690-806-3	Reverse Button
4	690-806-4	Locating Pin
5	690-806-5	Trigger
6	690-806-6	Valve Bushing
7	690-806-7	O-Ring
8	690-806-8	Valve Stem
9	690-806-9	Retaining Ring
10	690-806-10	O-Ring
11	690-806-11	Pin
12	690-806-12	Valve Set
13	690-806-13	O-Ring
14	690-806-14	Tip Valve
15	690-806-15	Valve Spring
16	690-806-16	O-Ring
17	690-806-17	Air Inlet
18	690-806-18	O-Ring
19	690-806-19	Muffler
20	690-806-20	Ball Bearing

Seq	Item No	Description
21	690-806-21	Rear End Plate
22	690-806-22	Cylinder
23	690-806-23	Locating Pin
24	690-806-24	Rotor
25	690-806-25	Vanes
26	690-806-26	Front Plate
27	690-806-27	Ball Bearing
28	690-806-28	Ball Bearing
29	690-806-29	Ring Gear
30	690-806-30	Carrier
31	690-806-31	Idle Gear
32	690-806-32	Needle Bearing
33	690-806-33	Pin
34	690-806-34	Planetary Housing
35	690-806-35	Grease Fitting
36	690-806-36	Set Screw
37	690-806-37	Washer
38	690-806-38	Drill Chuck
39	690-806-39	Fixed Bolt

* Prefix 690-806



LIMITED LIFETIME WARRANTY TERMS AND CONDITIONS

Warranty Terms

Clayton Associates, Inc. guarantees its manufactured products against defects in materials or workmanship and will either repair or replace all parts that prove defective under normal use during the lifetime of the products. The warranty period shall commence from the date of paid invoice.

This warranty does not cover (a) repairs due to normal wear, accident, neglect, misuse, or use other than as indicated in the instruction booklet (b) products manufactured by third parties and distributed by Clayton (c) wear items such as bearings, rotor blades, regulators, valve stems, levers, shrouds, guards, O-rings, seals, gaskets, motor brushes, and other wearable parts.

Repair within the Continental US

During the first 90 days of the warranty period, Clayton will provide parts and labor to the customer's site at no charge or pay freight costs associated with returning the products for repair to a Clayton selected service location and repair the product at no charge. Clayton personnel will determine the best way to repair the product.

Past 90 days, Clayton will provide parts to the customer's site at no charge or the customer may ship the product to a Clayton selected service location at customer's expense and Clayton will repair the product at no charge and provide return shipping.

Repair Outside the Continental US

Clayton will provide parts to the customer's site at no charge or the customer may ship the product to a Clayton selected service location at customer's expense and Clayton will repair the product at no charge and provide return shipping.

Limitation of Liability

Clayton shall not in any event be liable for any damages, loss of production time or profits, whether based on contract, warranty, negligence, strict liability or otherwise, including without limitation any consequential, incidental or special damages, arising with respect to the equipment or its failure to operate.

Clayton Associates, Inc. makes no other warranty or representation of any kind, except that of title, and all other warranties, express or implied, including warranties of merchantability or fitness for any particular purpose, are hereby expressly disclaimed.



Clayton products are proudly made in the USA

