

Revised Starting Serial # 26400

## INSTRUCTIONS AND PARTS LIST MANUAL

# Model ALR-BS



**The  
Big  
Stick™**

**Chisel Scaler**



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# EDCO AIR-RAM LONG REACH CHISEL SCALER - MODEL ALR-BS

## OPERATORS INSTRUCTIONS



READ AND UNDERSTAND THE OPERATORS INSTRUCTION MANUAL THOROUGHLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT. Death or serious injury could occur if this machine is used improperly.



- 1 When operating this equipment, the operator must wear approved job related safety attire. Eye and hearing protection must be worn at all times while equipment is in use as sound levels exceed 92 dBA. Steel toe safety shoes should be worn. Head protection is required if work is performed overhead. Wear proper dust mask based on material being removed.
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- 2 Use the correct size air hose for the tool, 1/2" diameter (minimum). Hose and fittings must be rated for safe handling in excess of 100 PSI pressure. The working pressure of this tool is 80-90 PSI and should never be allowed to exceed 100 PSI.
  - 3 Limit the hose length to 30 feet (10 meters) maximum. Note: The pressure drop of 1/2" diameter hose is approximately 1 PSI per 90 linear feet.
  - 4 A filter/water separator must be provided on the air source to afford an adequate supply of clean, dry air to this tool. A lubricator should also be used. If a lubricator is unavailable, lubricate the tool daily by putting 6 to 7 drops of lightweight machine oil in the hose connector opening prior to connecting the air supply. In cold weather, use graphite oil for lubrication.
  - 5 **WARNING** Disconnect the air supply before removing or installing a chisel or accessory. Squeeze the hand lever to release all compressed air from the tool. Use only genuine EDCO chisels and accessories with this equipment. Failure to do so may result in serious bodily injury or death.
  - 6 To install or remove chisel: Disconnect the air supply. Squeeze the hand lever to release all compressed air. Pull back on the spring loaded locking collar and hold while removing the chisel. Hold back on the spring loaded locking collar while firmly seating the new chisel in the holder. Release collar to retain the chisel.
  - 7 The appropriate accessory must be used for the job at hand. **DO NOT** force the tool into the work. The hammering action of the tool will perform the work for you. **NEVER USE THE TOOL AS A PRY BAR.** Damage to the equipment will result. If the tool does not seem to perform the work to your specifications, try another accessory or call our customer service department at 1-800-638-3326.
  - 8 To activate tool, attach the air source, firmly grip the tool then squeeze the hand lever on the air valve.
  - 9 **CAUTION** After releasing the air valve hand lever, the tool will continue to operate for up to 15 seconds. This is a normal result of stored pressure in the tool casing being released gradually. **Be sure to firmly grip the tool until ALL air leaves the chamber.**
  - 10 Remove the air source from the tool when not in use.
  - 11 **WARNING** This equipment will create dust from the material being removed. That dust may contain a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm. As an example, paints and concrete contain chemicals known to the state of California to cause cancer and/or birth defects or other reproductive harm. Check the chemical properties of the materials to be removed.
  - 12 **CAUTION** It is the operator's responsibility to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. for a safe distance. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.



# ALR-BS Chisel Scaler Maintenance Instructions



1. Remove air source and chisel accessory from tool before performing any maintenance.
2. Clean tool daily and keep it clean and lubricated. If a lubricator is provided with the air source, it should be adequate. If you are unsure or no lubricator is provided, lubricate the tool daily before use by putting 6 to 7 drops of lightweight machine oil in the hose connector opening. If tool is operated in cold weather (near or below freezing), use a graphite oil instead of the lightweight machine oil as described above.
3. After every 100 hours of use, flush the tool thoroughly with an environmentally safe, nonflammable and non-caustic solvent to clean out any oil/residue buildup in the tool. Oil tool immediately after flushing.
4. Replace any damaged parts immediately. Use only genuine EDCO parts.

## SPECIFICATIONS

<b>Weight</b> .....	<b>22lb. (9.8kg)w/o chisel</b>
<b>Length</b> .....	<b>65.5 in. Assembled</b>
<b>Blows per minute</b> .....	<b>3500 (approximate)</b>
<b>Stroke</b> .....	<b>1.595 in (40.5mm)</b>
<b>Bore</b> .....	<b>1.902 in (48.3mm)</b>
<b>Air Flow Rate</b> .....	<b>12-15 CFM @ 90 PSI</b>
<b>Working Pressure</b> .....	<b>80-90 PSI (5.5-6.2 BAR) 100 PSI max.</b>
<b>Noise Level During Operation</b> .....	<b>Exceeds 92 dB (A) Hearing Protection Must Be Worn!</b>
<b>CAUTION</b> .....	<b>Approximately 15 seconds pressure is stored in the case after air valve is released.</b>

**NOTE**..... **Specifications are subject to change at any time.**

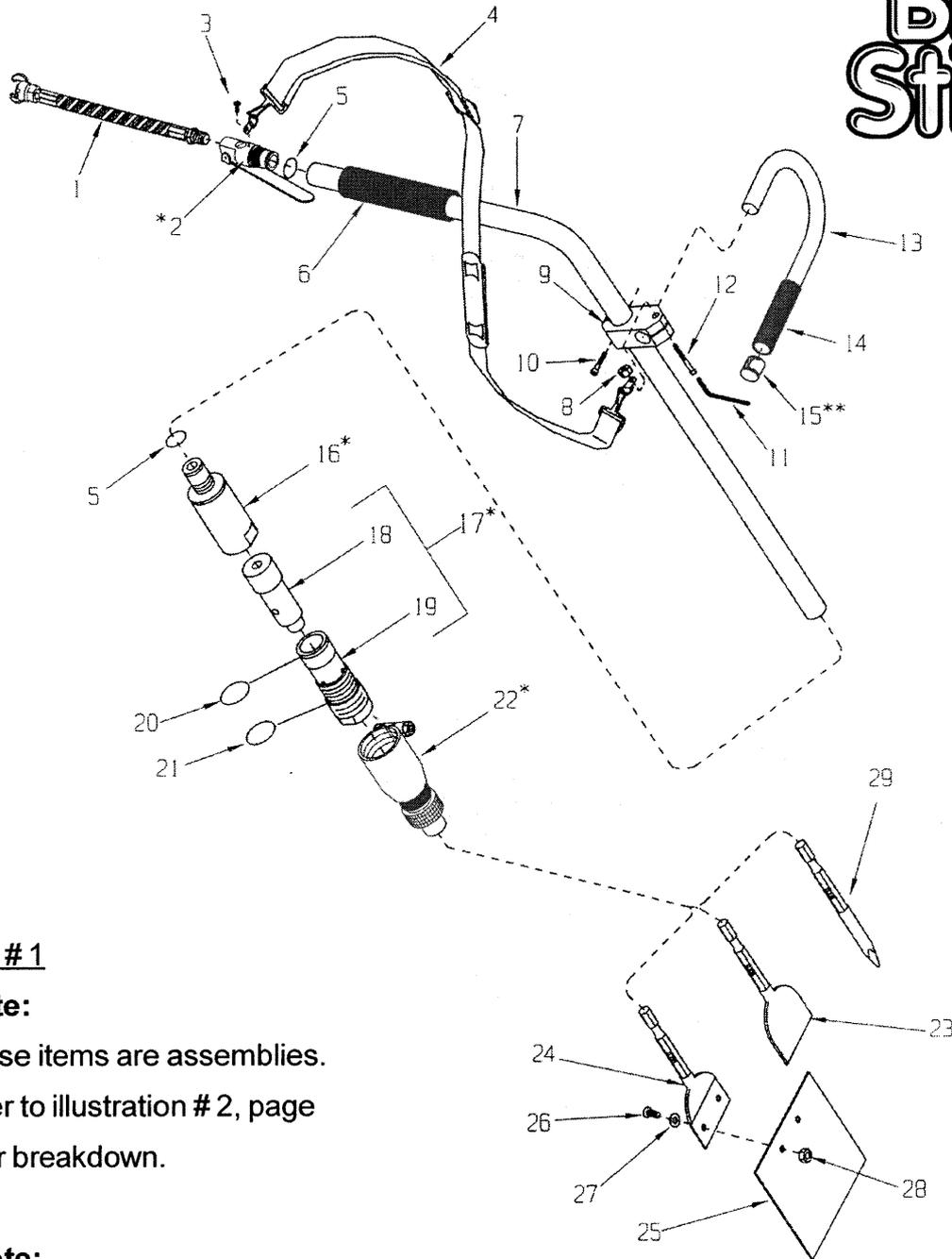
### PLEASE FILL IN INFORMATION AND SAVE

Date of Purchase \_\_\_\_\_  
 Name of Machine \_\_\_\_\_  
 Model # \_\_\_\_\_  
 Serial # \_\_\_\_\_  
 Belt Size(s) \_\_\_\_\_

### HOW TO ORDER REPAIR PARTS

- To insure product safety and reliability, always use genuine EDCO replacement parts when making repairs to the equipment.
- When ordering parts, please specify the MODEL and SERIAL NUMBER of the machine as given on the NAME PLATE. In addition, give part number, description and quantity as listed on the parts list.
- Please note: Due to improvements and changes in the equipment, the illustrations shown may be different than the actual machine.

# The Big Stick™



**Illustration # 1**

**\*Note:**

These items are assemblies.  
Refer to illustration # 2, page 6, for breakdown.

**\*\*Note:**

Foam Grip (#14) overlaps cap plug (#15).

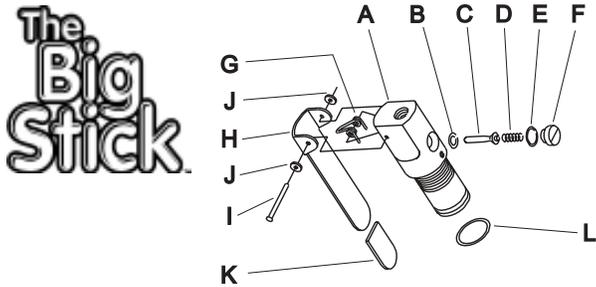
**PARTS LISTING - ILLUSTRATION # 1**

ITEM#	PART#	DESCRIPTION	QTY.	ITEM#	PART#	DESCRIPTION	QTY.
1	27025	WHIP HOSE ASSEMBLY 12"	1	22	27014	CHISEL HOLDER ASSEMBLY, 7/8" HEX SHANK (REFER TO ILLUS. #2)	1
2	27001	VALVE BODY ASSEMBLY (REFER TO ILLUS. #2)	1	23		CHISEL, 7/8" SHANK	1
3	11578	SCREW,SKT. BUTTON HEAD 1/4-20 x 1/2	1	27033		BS-3 3" SINGLE BEVEL (STANDARD)	
4	24040	STRAP, SHOULDER (INCLUDES SHOULDER PAD, 2 D-RINGS, 2 BRACKETS)	1	27031		BS-2 2" SINGLE BEVEL (OPTIONAL)	
5	27020	O-RING 2 x 30mm	2	27032		BS-2D 2" DOUBLE BEVEL (OPTIONAL)	
6	27026	GRIP, FOAM 1-1/2"ID x 12"L	1	24	27034	BS-3M 3" MILLED CHISEL, 7/8" SHANK (OPTIONAL)	
7	27006	CASING, ERGONOMIC STEEL	1	25		SCRAPER BLADES (TO BE USED w/ # 27034 MILLED CHISEL)	
8	10015	NUT, LOCK , 1/4-20	1	27035		BS-6S 6" STANDARD (5-PACK)	
9	27007	CLAMP, HANDLE	1	27036		BS-6B 6" w/ BEVEL (5- PACK)	
10	10856	SCREW, SKT. HD. CAP 1/4-20 x 1-1/2	1	26	10855	SCREW, SKT. BUTTON HEAD 3/8-24 x 1	2
11	66045	WRENCH, HEX KEY 3/16 in.	1	27	10025	WASHER, FLAT 3/8	2
12	10856	SCREW, SKT. HD. CAP 1/4-20 x 1-1/2	1	28	10152	NUT, NYLON LOCK 3/8-24	2
13	C10588	HANDLE, U-SHAPED	1	29	27037	BS-MPT CHIPPING POINT (OPTIONAL)	
14	61067	GRIP, FOAM 7/8"ID x 5"L	1				
15	C10598	PLUG, CAP 1"	1				
*16	27008	CYLINDER HOUSING ASSY. (REFER TO ILLUS.#2)	1				
*17	27028	PISTON & CYLINDER ASSY. (INCLUDES ITEMS 18 TO 21)					
18	27013	PISTON	1				
19	27012	CYLINDER	1				
20	27021	O-RING 2 x 52mm	1				
21	27022	O-RING 2 x 55mm	1				

**\* NOTE:** TO ORDER KIT OF ALL O-RINGS (8 TOTAL) USE PART # 27030. THIS KIT INCLUDES ITEMS # 5, 20, & 21 FROM ILLUSTRATION # 1 AND ITEMS 2-B, 2-E, 13-D, 13-E, & 13-F FROM ILLUSTRATION # 2.

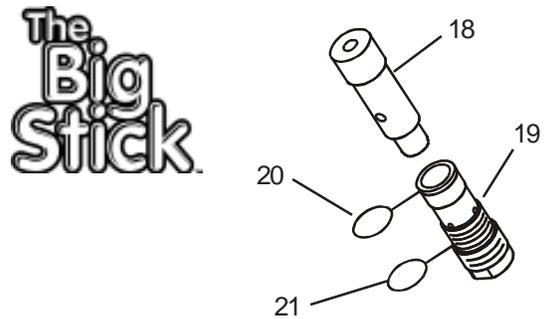
## PARTS LISTING - ILLUSTRATION # 2

### ITEM # 2 27001 VALVE BODY ASSEMBLY



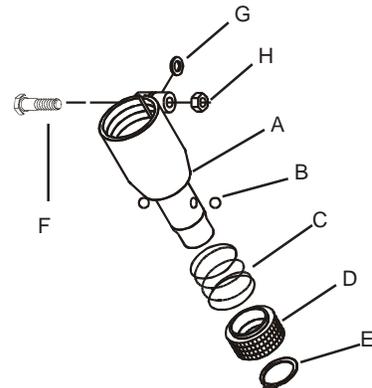
ITEM	PART#	DESCRIPTION	QTY.
2-A	27002	VALVE BODY	1
2-B	27038	O-RING, #112,3/32 x 1/2"ID	1
2-C	27003	VALVE STEM	1
2-D	C10607	SPRING, VALVE STEM	1
2-E	27039	O-RING, 2 x 18mm	1
2-F	27004	VALVE STEM RETAINER	1
2-G	C10607	SPRING, DOUBLE TORSION	1
2-H	27027	LEVER, AIR VALVE 6-1/2"	1
2-I	11556	RIVET, 1/8x1-1/2 OVAL HEAD	1
2-J	11557	WASHER, RIVET 1/8"IDx3/8"OD	2
2-K	C10569	GRIP, FLAT RED .125x.75x1.5L	1
2-L	27020	O-RING, 2 x 30mm	1

### ITEM # 17 27028 PISTON & CYLINDER ASSEMBLY



ITEM	PART#	DESCRIPTION	QTY.
18	27013	PISTON (HAMMER)	1
19	27012	CYLINDER	1
20	27021	O-RING 2 x 52mm	1
21	27022	O-RING 2 x 55mm	1

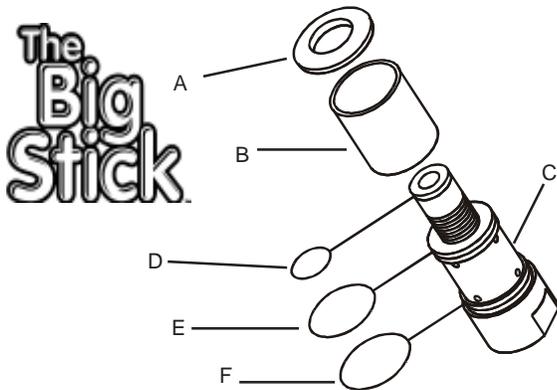
### ITEM # 22 27014 CHISEL HOLDER ASSEMBLY



ITEM	PART#	DESCRIPTION	QTY.
22-A	27015	CHUCK BODY	1
22-B	27017	BALL, CHROME 3/8"	1
22-C	27018	SPRING, COMP. 1.906"OD x 1.41"FL	1
22-D	27016	COLLAR, KNURLED, BALL LOCKING	1
22-E	27019	RETAINING RING, EXT. 1-1/2"	1
22-F	27029	SCREW, CAP 3/8-16 x 1-3/4	1
22-G	10025	WASHER, FLAT 3/8	1
22-H*	10810	NUT, LOCK 3/8-16	1

\*NOTE: Item H is used as a Jam Nut to prevent the Cap Screw (F) from loosening during operation.

### ITEM # 16 27008 CYLINDER HOUSING ASSEMBLY



ITEM	PART#	DESCRIPTION	QTY.
16-A	27011	CYLINDER HOUSING CAP	1
16-B	27010	CYLINDER HOUSING SLEEVE	1
16-C	27009	CYLINDER HOUSING MAIN BODY	1
16-D	27020	O-RING 2 x 30mm	1
16-E	27023	O-RING 2 x 65mm	1
16-F	27024	O-RING 2 x 67mm	1

## TO DISASSEMBLE THE EDCO BIG STICK CHISEL SCALER MODEL ALR – BS

NOTE: Items #2, #16, #17 and #22 can be replaced as assemblies.

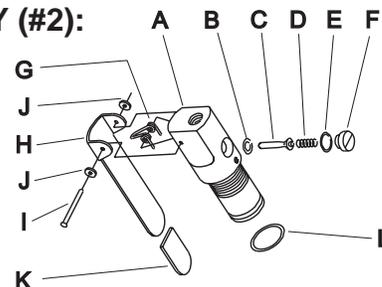
NOTE: All threaded parts are standard right-hand threads.

1. Place Cylinder Housing (#16) in a vice and clamp on the flat ends.
2. To remove Chisel Holder Chuck (#22), loosen Lock Nut (#22-H) and Capscrew (#22-F) then unscrew the Chisel Holder from the Cylinder (#19).
3. Unscrew Piston & Cylinder Assembly (#17) from Cylinder Housing (#16). Cylinder (#19) contains the Piston (#18). Piston is removed by gently tapping on the small end and lifting Piston (#18) up and out of the Cylinder (#19).
4. Cylinder Housing (#16) is not an operating part and rarely needs to be removed. If an air leak is detected, the “ O “ rings (#5, D, E & F) may need to be replaced.
5. Casing (#7) if damaged, may be unscrewed from the Cylinder Housing (#16) and Valve Assembly (#2). There are no moving parts in the Casing (#7).
6. To remove the Valve Assembly (#2) simply unthread from the upper end of the Casing (#7).
7. To replace Rubber Hand Grip (#6), remove Air Valve Assembly (#2), moisten grip with water and slide to a comfortable position on Casing (#7).

### STEPS TO DISASSEMBLE THE AIRVALVE BODY ASSEMBLY (#2):

1. To remove Internal Valve Parts:

E – “O” ring  
 D – Compression Spring  
 C – Valve Stem  
 B – “O” Ring



First remove the Capping Screw (F). Note that the Valve Stem (C) should be replaced if it is worn and loose in Valve Body (A).

2. The “ O “ Ring for the Valve Stem (B) may become unseated due to excess air pressure. Check this item if tool fails to stop running when valve handle is released.
3. The Valve Lever (H) is held in place by the Rivet (I) and two Washers (J).

The “ O “ Ring (L) must be in place on Valve Assembly (A) to prevent air leaks when assembly is threaded into casing (#7).

NOTE: All “O” Rings should be inspected and replaced if air leakage or damage is detected.

# LIMITED EQUIPMENT WARRANTY

**Equipment Development Company, Inc.** herein referred to as EDCO warrants that each new unit manufactured by EDCO to be free from defects in material and workmanship in normal use and service for a period of (6) six months **(except in the case of the chisel head assembly on all model ALR-BS, in which case the warranty period shall be 90days)** from date of shipment to the original retail or equipment rental center owner.

EDCO will, at its option, repair or replace, at the EDCO factory or at a point designated by EDCO any part, which shall appear to the satisfaction of EDCO inspection to have been defective in material or workmanship.

This warranty, does not apply to failure occurring as a result of abuse, misuse, negligent repairs, corrosion, erosion, normal wear and tear, alterations or modifications made to the product without express written consent of EDCO: or failure to follow the recommended operating practices and maintenance procedures as provided in the products operating and maintenance manuals.

This warranty does not obligate EDCO to bear any transportation charges in connection with the replacement or repair of defective parts. This warranty does not obligate EDCO to bear any expense for travel time or of personnel in connection with any service calls.

Accessories or equipment furnished and installed on the product by EDCO but manufactured by others, including but not limited to engines, motors, electrical equipment, transmissions, etc., shall carry the accessory manufacturers' own warranty.

**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.**

## LIABILITY LIMITATIONS

The remedies of the user set forth under provisions of warranty outlined above are the exclusive and total liability of EDCO with the respect to their sale or the equipment and service furnished hereunder, in connection with the performance or breach thereof, or from the sale, delivery, installation, repair or technical direction covered by or furnished under the sale, whether based on contract, warranty, negligence, indemnity, strict liability, or otherwise shall not exceed the purchase price of the unit of equipment upon which such liability is based.

EDCO will not in any event be liable to the user, any successors in interest or any beneficiary or assignee relating to this sale for any consequential, incidental, indirect, special or punitive damages arising out of this sale or any breach thereof, or any defects on, or failure of, or malfunction of the equipment under this sale based upon loss of use, lost profits or revenue, interest, lost goodwill, work stoppage, impairment of other goods, loss by reason of shutdown or non-operation, increased expenses of operation of the equipment, cost of purchase or replacement power of claims of users or customers of the user for service interruption whether or not such loss or damage is based on contract, warranty, negligence, indemnity, strict liability, or otherwise.

EDCO reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts.

No person is authorized to give any other warranty or to assume any additional obligation on EDCO's behalf unless made in writing and signed by an officer of EDCO.

Equipment Development Company, Inc.

## USE ONLY GENUINE EDCO PARTS AND ACCESSORIES

For your own safety, the safety of others and the life of your machine

