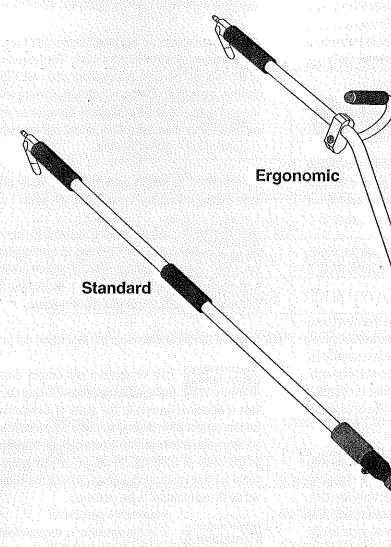
Revised Starting Serial #24650

## **Instructions & Parts List Manual**

# Model ALR









# EDCO AIR-RAW LONG REACH SCALER - MODEL ALR OPERATORS INSTRUCTIONS



# READ AND UNDERSTAND THE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.



Death or serious injury could occur if the tool is used improperly.

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. 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.













- Use the correct size air hose for the tool. Hose and fittings
  must be rated for safe handling at 100 PSI pressure. The
  working pressure of this tool is 80-90 PSI and should never
  be allowed to exceed 100 PSI.
- Limit the hose length to 30 feet (10 meters) maximum Note:
   The pressure drop of 3/8" diameter hose is approximately 3 PSI per 90 linear feet.
- 4. A filter/water separator must be provided on the air source to provide 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 4 to 5 drops of lightweight machine oil in the hose connector opening prior to connecting the air supply. In cold weather, use graphite oil for lubrication.
- 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.
- 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 you remove the chisel. Hold

- back on the spring loaded locking colar while you firmly seat 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.
- To activate tool, attach the air source, firmly grip the tool then squeeze the hand lever on the air valve.
- 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.
- 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 material to be removed.
- It is the operator's responsibility to keep other people (workers, pedestrians, by-standers, 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.

### **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 4 to 5 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, non-flammable and non-caustic solvent to clean out any oil/gunk buildup in the tool. Oil tool immediately after flushing.
- 4. Replace any damaged parts immediately. Use only genuine EDCO parts.

### **SPECIFICATIONS**

	LENGTH*	WEIGHT* Steel Aluminum	
ALR-2	28.5 in ( 72.4 cm)	8.6 lb (3.9 kg)	<b>7.6 lb (3.4</b> kg)
ALR-4	49.0 in (124.5 cm)	11.3 lb (5.1 kg)	8.5 lb (3.9 kg)
ALR-5	61.0 in (154.9 cm)	12.9 lb (5.9 kg)	9.0 lb (4.1 kg)
ALR-E5	67.0 in (170.2 cm)	17.3 lb (7.8 kg)	12.3 lb (5.6 kg)

<sup>\*</sup> All weight and dimensions include the standard 4" (10.2 cm) chisel.

Blows per Minute 2100-3000

Stroke 1.535 inches (38.99 mm)

Bore 1.188 inches (30.18 mm)

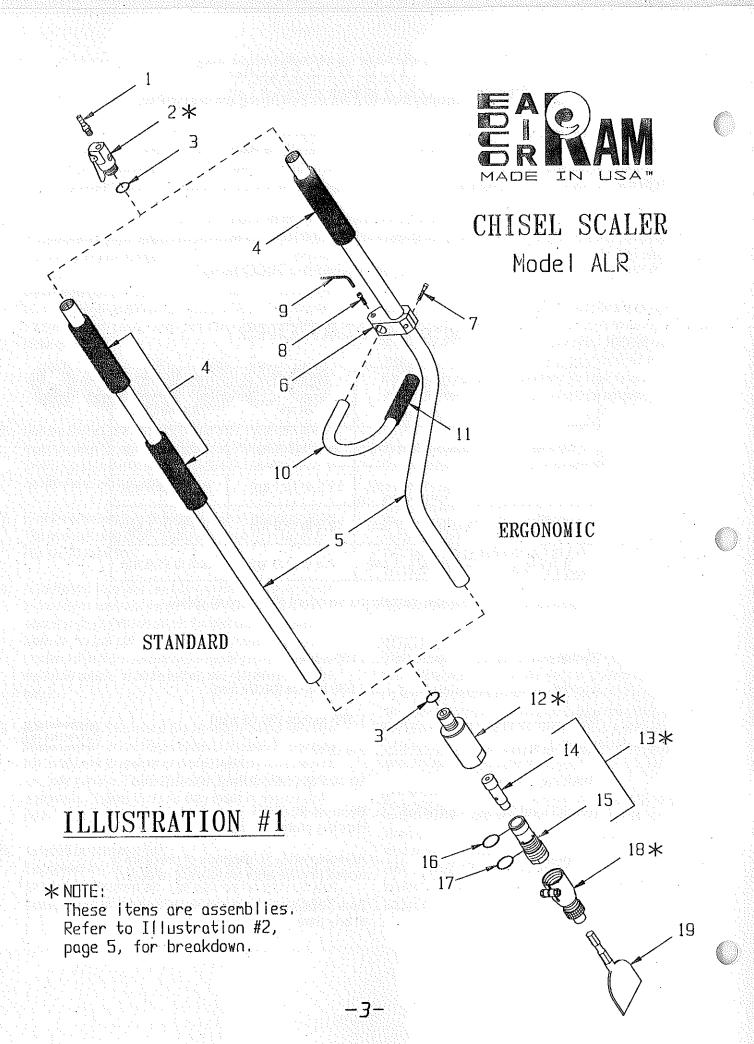
Air Flow Rate 6-8 CFM

Working Pressure 80-90 PSI (5.5-6.2 Bar), 100 PSI max

Noise Level During Operation Exceeds 92 dB(A) Hearing protection must be worn

Caution Approximately 15 seconds of pressure is stored in case after air valve is released

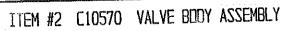
Note Specifications are subject to change at any time.

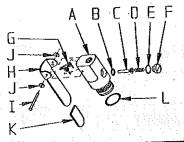


		PARTS LISTING - ILLUSTRATION #1	
Item #	Part #	Description	Qty.
14	C10523	Barb, Swivel 3/8Hose x 1/4MPT	1
2	C10570	Valve Body Assembly	1
		(Refer to Illus. #2 for Breakdown)	
*3	C10536	O-Ring 2 x 26mm	2
4		Grip, Foam	
	C10531	1-1/4"ID x 8"L (Models ALR-4 & ALR-5)	1or2
	C10539	1-1/4"ID x 12"L (Model ALR-2 Only)	1
5		Casing (Specify Style and Size)	1
	C10587	Ergonomic Steel Model ALR-E5	
	C10532	Straight Steel 44-1/2" Model ALR-5	
	C10532A	Straight Alum. 44-1/2" Model ALR-5-A	
	C10533	Straight Steel 32-1/2" Model ALR-4	
	C10533A	Straight Alum. 32-1/2" Model ALR-4-A	
	C10534	Straight Steel 12" Model ALR-2	
	C10534A	Straight Alum. 12" Model ALR-2-A	ĺ
6	C10586	Clamp, Ergonomic Handle	1
7	10856	Screw, Skt. Hd. Cap 1/4-20 x 1-1/2	1
8	10869	Screw, Skt. Hd. Cap 1/4-20 x 1	1
	66045	Wrench, Hex Key 3/16 in.	1
10	C10588	Handle, U-Shaped	1
11	61067	Grip, Foam 7/8"ID x 5"L	1
12		Cylinder Housing Assembly	1
		(Refer to Illus. #2 for Breakdown)	<u> </u>
	C10535	Steel Housing	,
Jan garan	C10535A	Alum. Housing	
13	C10590	Piston & Cylinder Assembly	
<u>N.</u> Ja		(Includes Items 14 thru 17)	١ .
14	C10583	Piston	1
15	C10584	Cylinder	1
*16	C10511	O-Ring 2 x 34mm	1
*17	C10512	O-Ring 2 x 37mm	1
18	C10514	Chisel Holder Assy., 5/8" Hex Shank	'
		(Refer to Illus. 2 for Breakdown)	
19	C10302	LR-4 Chisel, 4" Steel - Standard	1
		(Other Accessories are Available)	

\* Note:
To order KIT OF ALL O-RINGS (8 Total) use part # C10550.
This kit includes items #3, 16, & 17 from Illustration #1
and items 2-B, 2-E, 12-D, 12-E, & 12-F from Illustration #2.

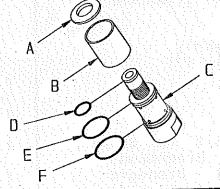
## ILLUSTRATION #2





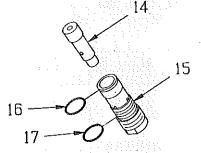
j	Item	Part #	Description Qty.
	2-A	C10571	Valve Body
·	2-B	C10540	O-Ring #109, 3/32 x 5/16"ID 1
	2-C	C10572	Valve Stem 1
	2-D	C10542	Spring, Valve Stem 1
	2-E	C10543	0-Ring #013, 1/16 x 7/16"ID 1
	100	C10544	Valve Stem Retainer
	2-G	C10585	Spring, Double Torsion
	2-H	C10573	Lever, Air Valve
	2-1	11556	Rivet, Oval Head 1/8 x 1-1/2 1
	2-J	11557	Washer, Rivet 1/8"ID x 3/8"OD 2
	2-K	C10569	Grip, Flat Red .125x.75x1.5°L 1
	2-L	C10536	O-Ring 2 x 26mm
	4 3 3	ta ayra a saya sakal	

### ITEM #12 C10535 OR C10535A CYLINDER HOUSING ASSEMBLY



Part #	Description Qty.
C10545	Cylinder Housing Cap 1
	Cylinder Housing Sleeve 1
	Cylinder Housing Main Body 1
C10547	steel Main Body
	Alum. Main Body
	O-Ring 2 x 26mm 1
	O-Ring 2 x 46mm
	O-Ring 2 x 48mm
	Part # C10545 C10546 C10547 C10547 C10536 C10548 C10549

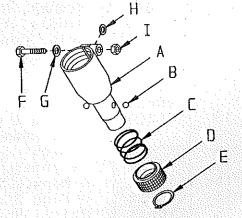
# ITEM #13 C10590 PISTON & CYLINDER ASSEMBLY 14



NOTE: These parts should be replaced together as an Assembly.

Item Part #	Description	Qty.
14 C10583	Piston	t
15 C10584	Cylinder	1
16 C10511	O-Ring 2 x 34mm	1
	0-Ring 2 x 37mm	1

## ITEM #18 C10514 CHISEL HOLDER ASSEMBLY



Tł om	Part #	Description	Oty.
Trem	rait e		,
18-A	C10578	Chuck Body	1
	C10579	Ball, 5/16" Chrome	2
	C10580	Spring, Comp. 1.437 OD x 1.25 FL	1
	C10581	Collar, Knurled Ball Locking	1
	C10582	Retaining Ring, Ext. 1-1/8"	1
	10342	Screw, Cap 5/16-18 x 1-1/2	1
18-G	10801	Washer, Lock 5/16	1
18-H		Washer, Flat S.S.	1.
,0 11	11558	,328"ID x .562"OD x .025"THK	
	11559	.328"ID x .562"OD x .058"THK	
18-1	10807	Nut, Lock 5/16-18	1

#### TO DISASSEMBLE THE EDGO AIR-RAM SCALER MODEL ALR:

NOTE: Items (#2), (#12) and (#18) can be replaced as assemblies.

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

- 1. Place Cylinder Housing (#12) in a vice and clamp on the flat ends.
- To remove Chisel Holder Chuck (#18), loosen Lock Nut (#18-I) and Capscrew (#18-F) then unscrew the Chisel Holder from the Cylinder (#15).
- 3. Unscrew Cylinder (#15) from Cylinder Housing (#12). Cylinder (#15) contains the Piston (#14). Piston is removed by gently tapping on the small end and lifting Piston (#13) up and out of Cylinder (#15).
- 4. Cylinder Housing (#12) is not an operating part and rarely needs to be removed. If an air leak is detected, the "O" rings (#3) should be replaced.
- 5. Casing (#5) if damaged, may be unscrewed from the Cylinder Housing (#12) and Valve Assembly (#2). There are no moving parts in the Casing (#5).
- 6. To remove the Valve Assembly (#2) simply unthread from the upper end of the Casing (#5).
- 7. To replace Rubber Hand Grips (#4), remove Air Valve Assembly (#2), moisten grips with water and slide grips to a comfortable position on Casing (#5).

# STEPS TO DISASSEMBLE THE AIR VALVE 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 & 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 (#5).

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

NOTE: Be sure to lubricate all parts with a light machine oil when reassembling the tool.

## 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 six (6) months (except in the case of the chisel head assembly on all model ALRs, in which case the warranty period shall be 90 days) 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 correction 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 outlines 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 breech 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.

