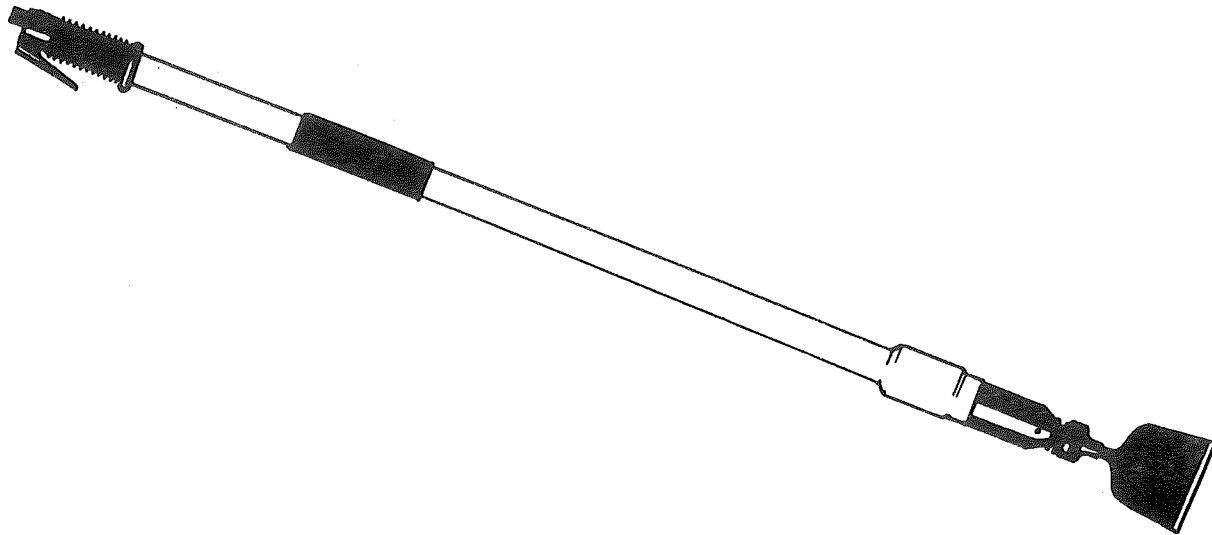
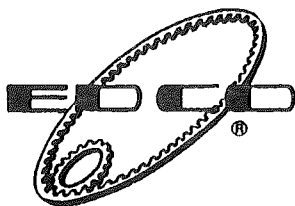


LONG REACH AIR SPADE

INSTRUCTIONS AND PARTS MANUAL



Model ALR



EQUIPMENT DEVELOPMENT COMPANY, INC.

100 THOMAS JOHNSON DRIVE, FREDERICK, MARYLAND 21702-4305 USA

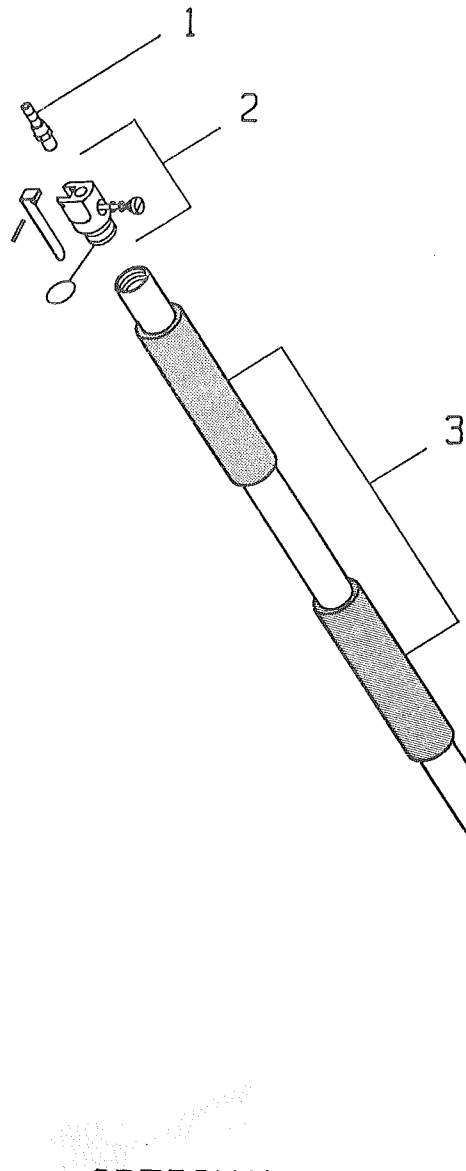
301-663-1600

TOLL FREE 1-800-638-3326

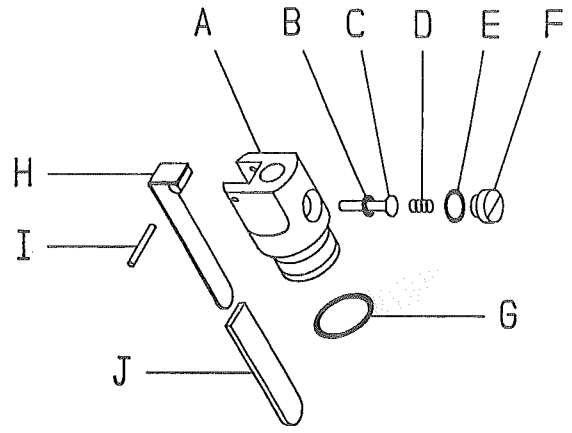
FAX 301-663-1607

LONG REACH SCALER

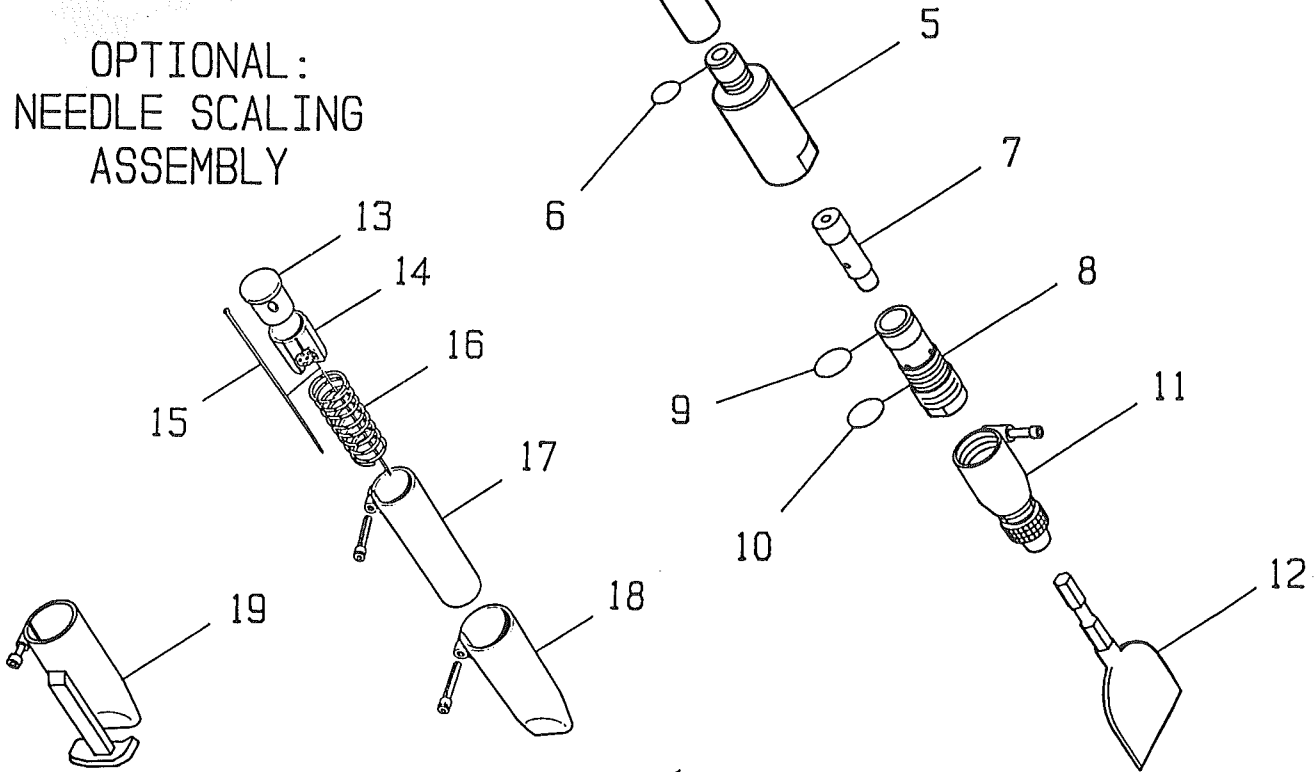
Model ALR



ITEM #2: VALVE BODY ASSEMBLY



OPTIONAL: NEEDLE SCALING ASSEMBLY



PARTS LISTING - LONG REACH SCALER

Item #	Part #	Description	Qty.
1.	C10523	Barb, Swivel 3/8Hose x 1/4MPT	1
2.	C10530	Valve Body Assembly (Includes Items A thru J)	
	A	C10529 Valve Body	1
	B	C10540 "O" Ring 4470-200-.109	1
	C	C10541 Valve Stem	1
	D	C10542 Spring	1
	E	C10543 "O" Ring 4470-200-.013	1
	F	C10544 Stem Retainer	1
	G	C10536 "O" Ring 1.010 x .080	1
	H	C10528 Lever	1
	I	C10527 Roll Pin 1/8 x 1	1
	J	10988 Grip, Flat Red 1/2 x 3-1/2	1
3.	C10531	Grip, Foam 8"	2
4.		Casing (Specify Size)	1
	C10532	5 foot	
	C10533	4 foot	
	C10534	2 foot	
5.	C10535	Housing, Cylinder	1
6.	C10536	"O" Ring 1.010 x .080	1
7.	C10509	Piston	1
8.	C10510	Cylinder	1
9.	C10511	"O" Ring 4470-200-.028	1
10.	C10512	"O" Ring 4470-200-.029	1
11.	C10514	Chisel Holder, 5/8" Hex Shank & Screw, Skt. Hd. 5/16-18 x 1-1/4	1
	C10537	Allen Key 1/4 in. (Not Shown)	1
12.	C10302	LR-4 Chisel, 4" Steel (Other Accessories Available)	1

OPTIONAL - NEEDLE SCALING ASSEMBLY (Part #C10307)

13.	C10516	Anvil	1
14.	C10517	Needle Holder for 3mm Needle	1
15.		Needle 3mm x 7" (28 per set)	28
	C10397	AN-CP Chisel Tip (Standard)	
	C10396	AN-PT Pointed Tip (Optional)	
	C10395	AN-FL Flat Tip (Optional)	
16.	C10518	Spring, Compression	1
17.	C10519	Intermediate Tube, Round Front & Screw, Skt. Hd. 8M x 30mm	1
18.	C10520	Front Tube, Straight & Screw, Skt. Hd. 8M x 30mm	1
	C10515	Allen Key 6mm (Not Shown)	1

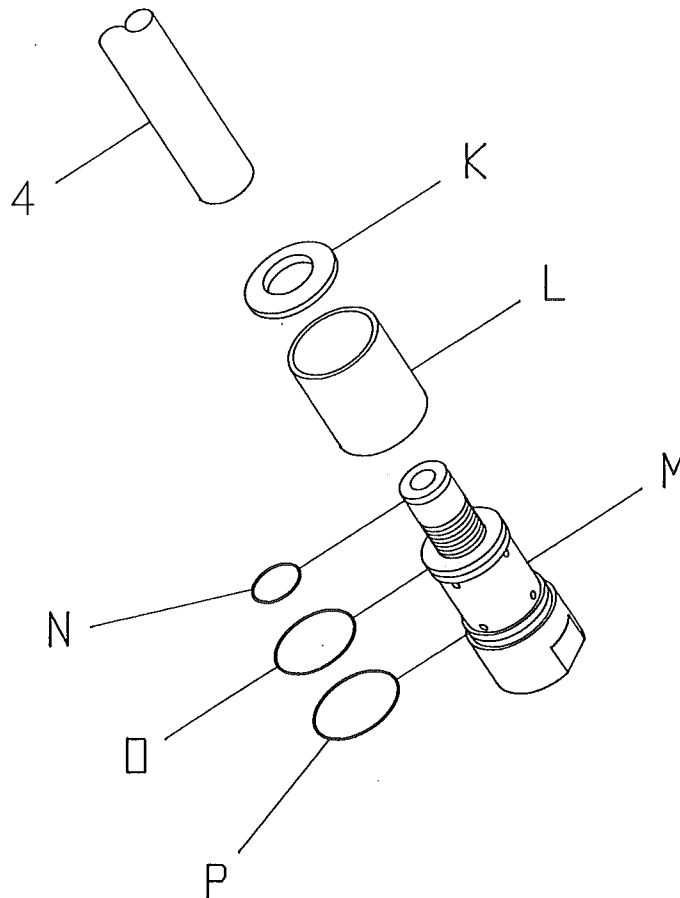
OPTIONAL - FRONT TUBE WITH FOOT FOR CRACK CHASING

19.	C10538	Front Tube, Crack Chaser & Screw, Skt. Hd. 8M x 30mm	1
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PARTS LIST ADDENDUM

12-1-91

MODEL ALR CYLINDER HOUSING ASSEMBLY Item #5 PART #C10535



ITEM	PART #	DESCRIPTION
K	C10545	Cylinder Housing Cap
L	C10546	Cylinder Housing Outer Tube
M	C10547	Cylinder Housing Main Body
N	C10536	"O" Ring #023
O	C10548	"O" Ring #031
P	C10549	"O" Ring #032

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