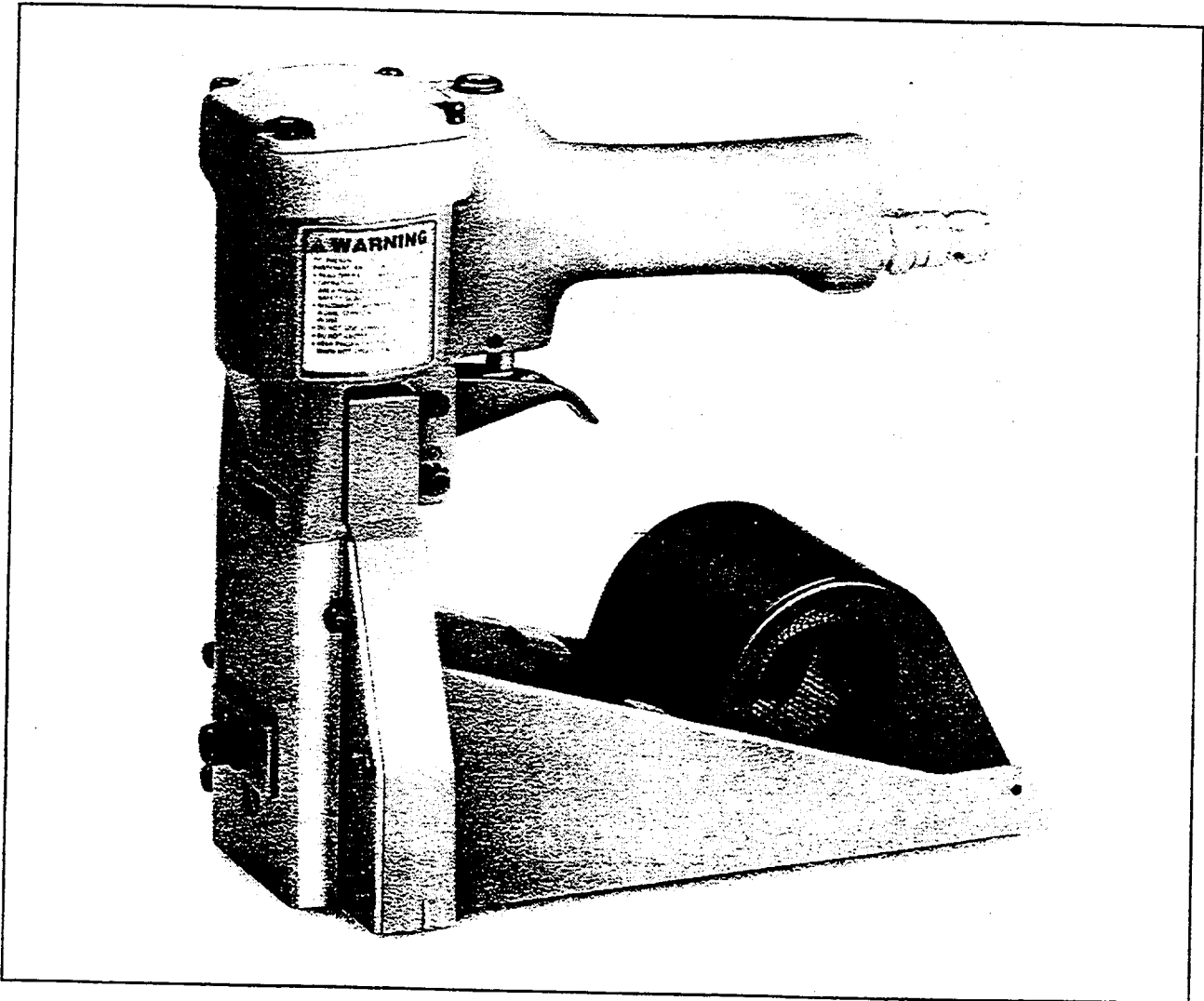


BOSTITCH®

Model **D60ADC**
COIL-FED PNEUMATIC CARTON CLOSER



OPERATION and MAINTENANCE MANUAL

▲WARNING:

BEFORE OPERATING THIS TOOL, ALL OPERATORS SHOULD STUDY THIS MANUAL, TO UNDERSTAND AND FOLLOW THE SAFETY WARNINGS AND INSTRUCTIONS. KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE. IF YOU HAVE ANY QUESTIONS, CONTACT YOUR BOSTITCH REPRESENTATIVE OR DISTRIBUTOR.

BOSTITCH

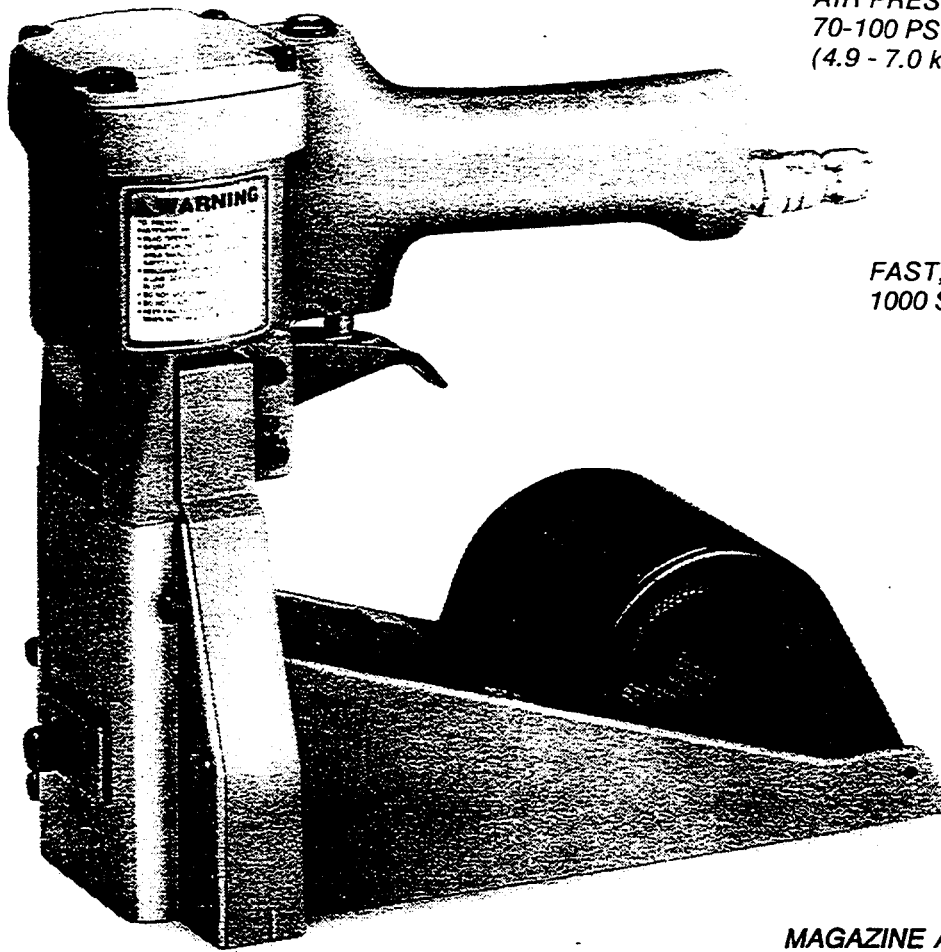
Stanley Fastening Systems

BSA1469S REVG 7/00 SS/LT

FEATURES FULL CYCLE
ACTION FOR MAXIMUM
SPEED & OPERATION

LIGHT-ALLOY FRAME FOR EASE OF
HANDLING AND GOOD BALANCE

OPERATES OVER
WIDE RANGE OF
AIR PRESSURES
70-100 PSI
(4.9 - 7.0 kg/cm²)



FAST, EASY RELOADING
1000 STAPLES IN EACH COIL

ADJUSTABLE
DEPTH OF PENETRATION

MAGAZINE ACCOMODATES
1/2"(13MM), 5/8"(16MM), 3/4"(19MM)
SWC STAPLES WITH AN EASY
ADJUSTMENT

ADJUSTABLE
TIGHTNESS OF
CLINCH

QUICK JAM
RELEASE FEATURE

D60ADC Specifications

Length 9"
(230mm)

Height 8⁵/₈"
(219mm)

Width 4¹/₂"
(115mm)

Weight 5 lbs. 9 oz.
(2.5 kg)

INTRODUCTION

The Bostitch D60ADC Carton Closer is a precision-built tool, designed for high speed, high volume carton closing. This coil-fed closer will deliver efficient, dependable service when used correctly and with care. As with any fine power tool, for best performance the manufacturer's instructions must be followed. Please study this manual before operating the closer and understand the safety warnings and cautions. The instructions on installation, operation and maintenance should be read carefully, and the manual kept for reference. NOTE: Additional safety measures may be required because of your particular application of the carton closer. Contact your Bostitch representative or distributor with any questions concerning the carton closer and its use. Bostitch, Inc., East Greenwich, Rhode Island 02818.

BEFORE USING ANY PNEUMATIC TOOL BE AWARE OF THE FOLLOWING WARNINGS:

Approved EYE PROTECTION should always be worn by the operator and others in the work area.

Always DISCONNECT THE AIR SUPPLY before making adjustments, servicing the tool or clearing jams, and when tool is not in use.

NEVER place hands or any other part of body in staple clincher area or adjustment window.

DO NOT USE oxygen or combustible gases as a power source for this tool.

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NOTE: Bostitch tools have been engineered to provide excellent customer satisfaction and are designed to achieve maximum performance when used with precision Bostitch fasteners engineered to the same exacting standards. Bostitch cannot assume responsibility for product performance if our tools are used with fasteners or accessories not meeting the specific requirements established for genuine Bostitch nails, staples and accessories.

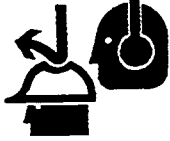
OPERATING THE D60ADC CARTON CLOSER

WARNING:

EYE PROTECTION which conforms to ANSI specifications and provides protection against flying particles both from the **FRONT** and **SIDE** should **ALWAYS** be worn by the operator and others in the work area when loading, operating or servicing this tool. Eye protection is required to guard against flying fasteners and debris, which could cause severe eye injury.



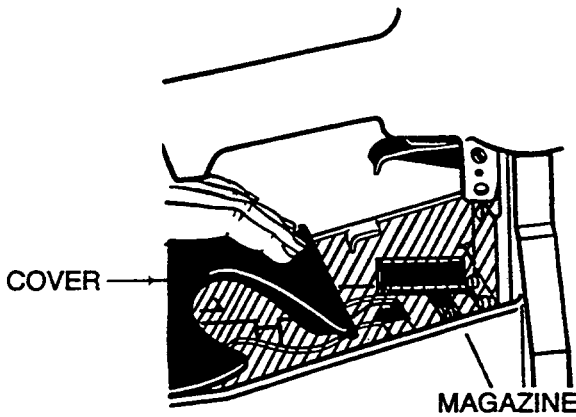
The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the American National Standards Institute, ANSI Z87.1-1989 and provide both frontal and side protection. **NOTE:** Non-side shielded spectacles and face shields alone do not provide adequate protection.



CAUTION: ADDITIONAL SAFETY PROTECTION will be required in some environments. For example, the working area may include exposure to noise level which can lead to hearing damage. The employer and user must ensure that any necessary hearing protection is provided and used by the operator and others in the work area. Some environments will require the use of head protection equipment. When required, the employer and user must ensure that head protection conforming to ANSI Z89.1 1986 is used.

LOADING CARTON CLOSER

1) Open the Magazine.



Press cover slightly to unlatch from magazine and swing cover open.

2) Check Staple Leg Length:

Adjustment is provided in machine for different staple leg lengths. Clinchers must be changed to use 1/2" (13mm) staples.

A) To adjust machine for leg length, loosen set screw and turn dial 180° with a screw driver to the desired adjustment as noted. Tighten set screw.

B) To change to shallow clinchers (see parts charts for part numbers) remove screws and front bracket to provide access to clinchers. Change one at a time to prevent reversing parts.

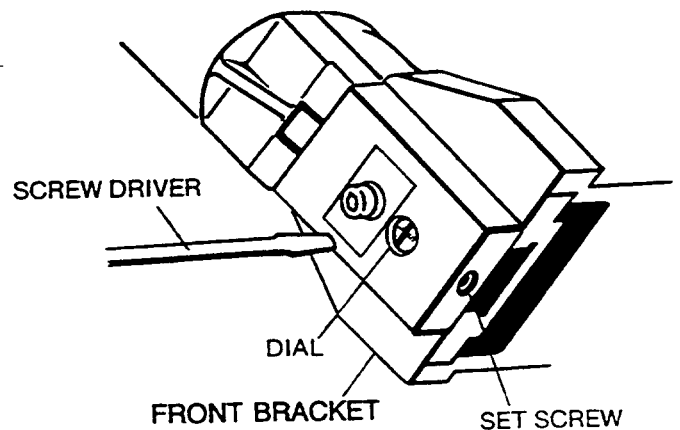
WARNING:

To prevent accidental injuries:

- Never place a hand or any other part of body in staple clinching area or adjustment window.
- Never point tool toward anyone else.
- Never engage in horseplay.
- Always handle the tool with care.
- Never pull trigger unless tool is in place on carton.
- Do not pull the trigger while loading the tool.

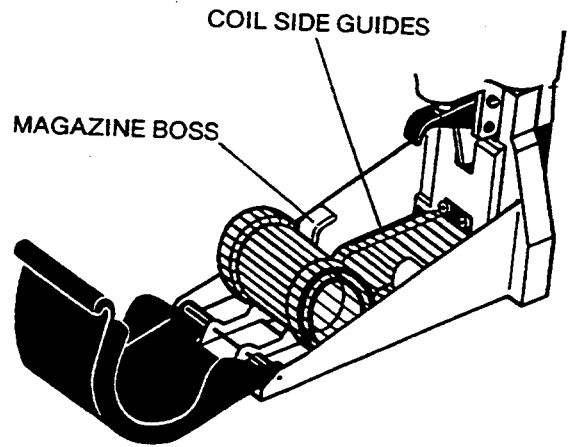
WARNING:

Disconnect the air supply before making adjustments.



CLINCHERS	STANDARD/FLAT 112760		SHALLOW/OFFSET D60065 (R.H.), D60066 (L.H.)	
	5/8 (16mm)	3/4 (19mm)	1/2 (13mm)	5/8 (16mm)
STAPLES SWC7437				
DIAL POSITION				

- 2) C) To adjust coil guides, loosen four screws:
 - 1) For 1/2" (13mm) staples: push guides forward and inward as far as they go, tighten screws.
 - 2) For 5/8" (16mm) staples: push guides to rear with screws in center of slots, tighten screws.
 - 3) For 3/4" (19mm) staples: push guides forward and outward as far as they go, tighten screws.



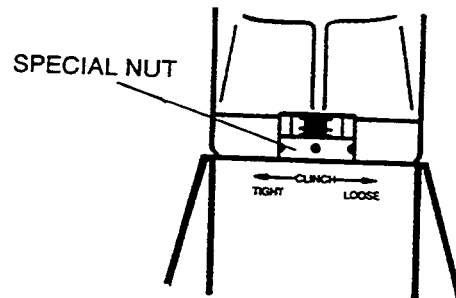
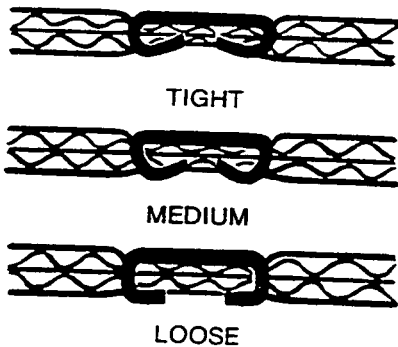
NOTE: Use only staples recommended for use in Bostitch D60ADC Top Carton Closer

3) Load the Coil of Staples:

Place coil of staples in magazine. Feed front end of coil into side & top guides. Push forward until stopping on blade guide, swing cover closed and slightly squeeze to engage magazine bosses. Check positive engagement.

4) Clinch Adjustment:

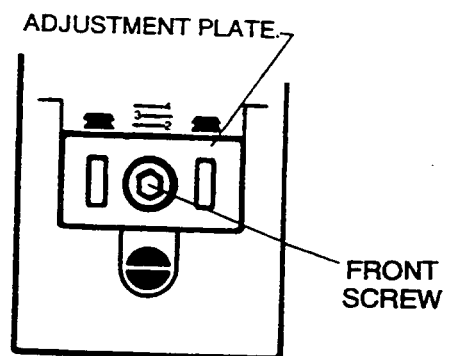
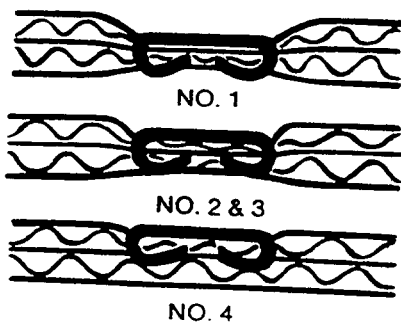
Turn special nut through window clockwise to tighten clinch and counter-clockwise to loosen clinch. Use a tool to fit in 1/8" (3mm) hole.



NOTE: Remove adjusting tool after adjustment is made.

5) Depth Adjustment:

Loosen front screw and adjust to desired depth. When top edge of adjustment plate is at highest setting (No. 4), the clinchers are at their shallowest penetration. If set at lowest setting (No. 1) the clinchers are at their deepest penetration.



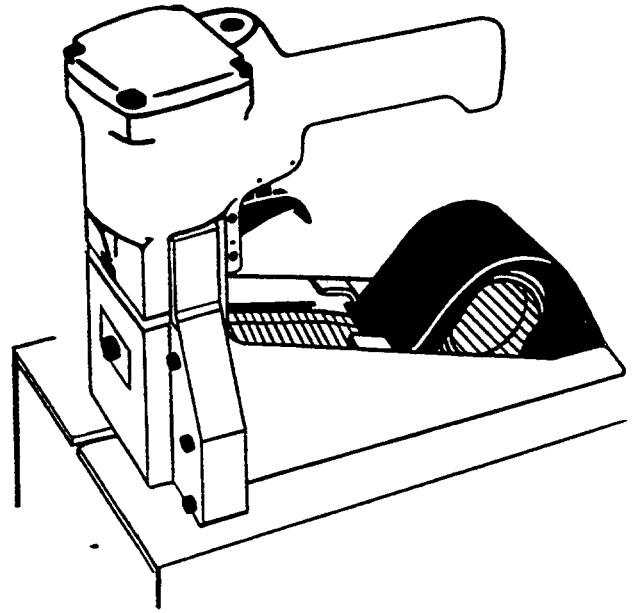
NOTE: Tighten screw before firing tool.

6) Operate Machine:

Grasp handle with one hand. Position on box in line with the desired staple location. There is a small projection on either side of the frame as an aid in locating the position of the staple. Press trigger. Move machine to next staple location with or without releasing trigger.

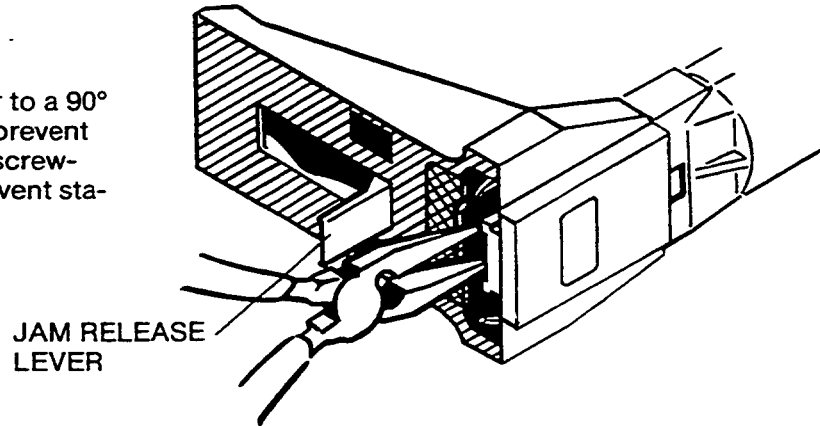
Strongest closure requires end staples close to end of box. Check packing requirements.

Check staple clinching in samples of box board being used. Adjustments for depth of penetration & tightness of clinch are easy & instantaneous, full advantage should be taken of them.



7) Jammed Staple Removal:

Jams can be cleared by pulling jam release lever to a 90° position. At this position, hold coil of staples to prevent movement and use either a long nose plier or a screwdriver to clear jam. Carefully release lever to prevent staples being trapped between anvil & blade guide.



WARNING: Disconnect air supply before clearing jams.

NOTE: Keep fingers away from lever window in case of accidental release of lever.

AIR SUPPLY AND CONNECTIONS

OPERATING PRESSURE

The operating pressure of the D60ADC Carton Closer is 70 to 100 p.s.i. (4.9 to 7.0 kg/cm²).

Do not exceed 100 p.s.i. (7.0 kg/cm²). Tool wear will be greatly increased if excessive pressure is used.

SETTING THE CORRECT PRESSURE.

The air requirements will vary, depending on the carton to be stapled and staple size. Do not use more air pressure than is required to clinch the staple in the specific job. To determine best setting, start at low pressure and increase pressure until clinching is satisfactory.

Using excess pressure increases tool wear and wastes compressed air.

WARNING: To prevent accidental firing, disconnect air supply:

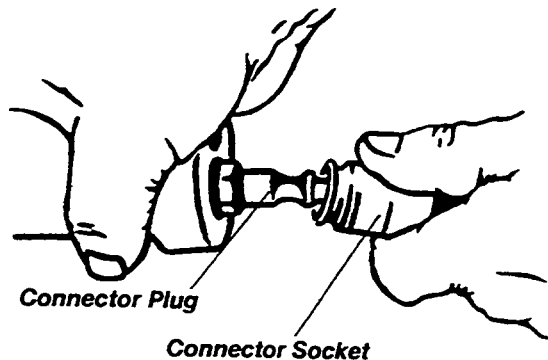
- before making adjustments
- when servicing the tool
- when clearing jams
- when tool is not in use
- when moving to a different work area.

WARNING: Do not use oxygen or combustible gases as a power source for this tool or air supply sources which can potentially exceed 200 P.S.I. (14.14 kg/cm²) as tool may explode

QUICK DISCONNECT FITTINGS

Install a free-flow connector plug on the carton closer. Thread is $\frac{1}{4}$ " N.P.T.

Install a connector socket on the air hose. For best performance, fitting should have minimum inside dia. of .190".



NOTE: The air supply system must be capable of maintaining the required air pressure at the tool when it is operated at its highest cycle speed. Inadequate air supply will result in a loss of power and inconsistent driving after the first cycle when the tool is operated in high speed bursts.

WARNING: Always attach a free-flow connector plug to the carton closer. If a wrong fitting is used, the tool can remain charged with air after disconnecting, and thus will be able to cycle even after the air line is unplugged.

NOTE: Air compressors used to supply compressed air to this stapler should comply with the requirements of the American National Standard Institute Standard B19.3—1981, Safety Standard for Compressor for Process Industries.

REGULATORS

Most air supply equipment will produce pressures that exceed the D60ADC maximum operating pressure, 100 p.s.i. (7.0 kg/cm²). A pressure regulator is required to control the operating pressure.

The flow capacity must be sufficient for the air usage at the installation.

HOSES

Air supply hoses should have a 150 p.s.i. (10.5 kg/cm²) working pressure rating (or 150 percent of the maximum pressure that could be produced in the air system).

AIR CONSUMPTION

The D60ADC requires 4.0 C.F.M. (0.113 cubic meter/min) of free air to operate at the rate of 100 staples per minute, at 80 p.s.i. (5.66 kg/cm²). Take the actual rate at which the carton closer will run to determine the amount of air required. For instance, if your staple usage averages 50 staples per minute, you need 50% of the 4.0 c.f.m. (0.1133 M³/min.) which is required for running at 100 staples per minute.

FILTERS

Dirt and water in the air supply is a major cause of wear in air tools. A filter will help to get best performance from this tool. The filter must have adequate flow capacity for the specific installation.

The filter has to be kept clean to be effective in cleaning the air. Consult the filter manufacturer's instructions on proper maintenance. Clean and empty the filter as needed.

A dirty and clogged filter will also cause a pressure drop, which can reduce the tool performance.

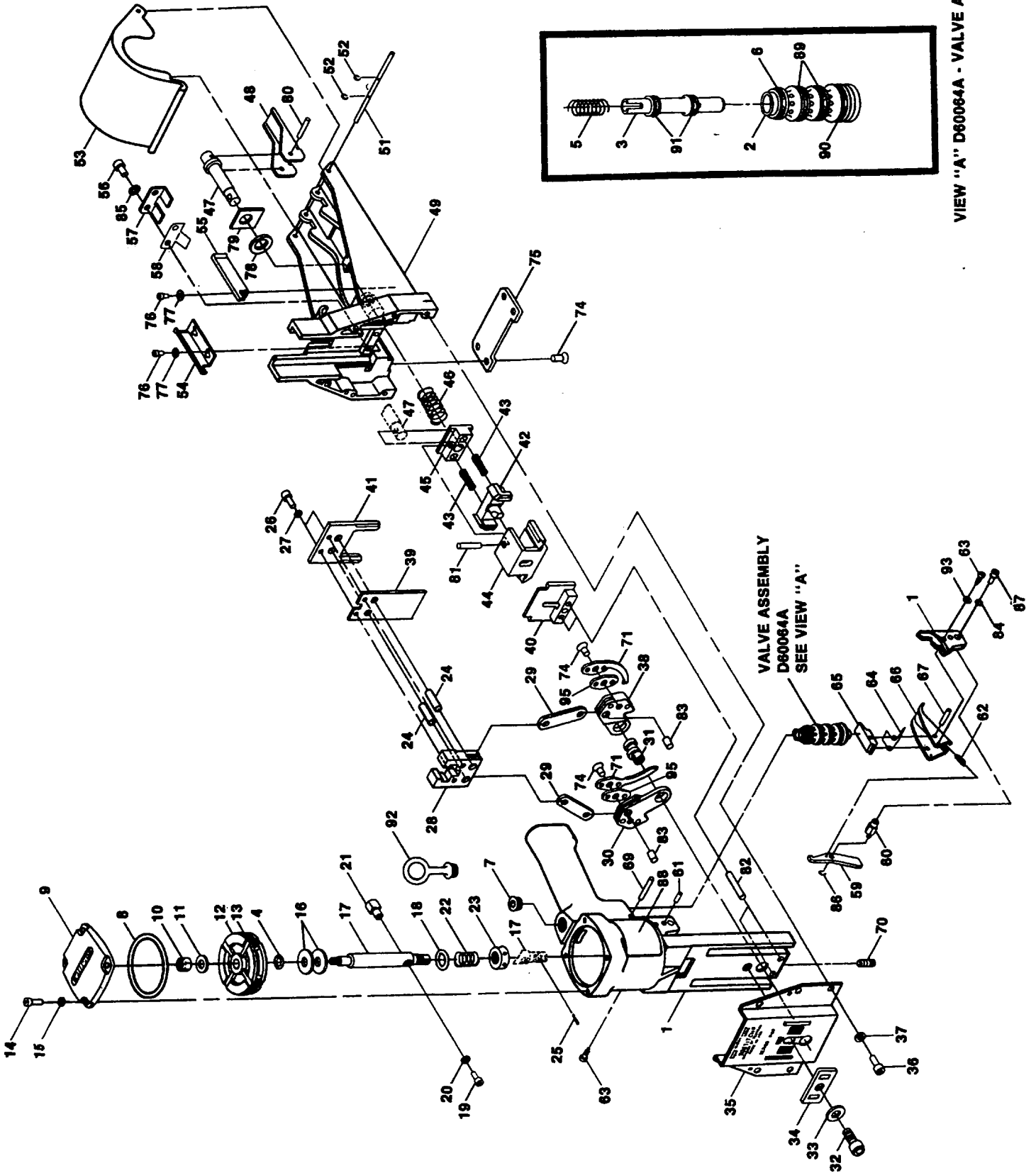
LUBRICATION

Frequent, but not excessive, lubrication is required for best performance. Oil added through the air line connection will lubricate the internal parts. Use BOSTITCH Air Tool Lubricant BC602 (pint) or BC604 (quart), Mobil Velocite #10, or equivalent. Do not use detergent oil or additives because the seals and bumpers in the tool may be attacked by the oil.

If an airline lubricator is used it should be as close to the tool as practical, with a hose to the tool no longer than 50 feet (15 meters).

If no lubricator is used, add oil during use by squirting oil into the air fitting on the tool once or twice a day. Only a few drops at a time are required. Too much oil will collect inside the tool and will be noticeable in the exhaust.

For cold weather operation, near and below freezing, the oil and water present in the air line may freeze and prevent tool operation. We recommend the use of BOSTITCH WINTER FORMULA air tool lubricant BC603 in place of BC602/BC604 or permanent antifreeze (ethylene glycol) as a cold weather lubricant. Note that some commercial air line drying liquids attack o-rings and seals – do not use these low temperature air dryers without checking compatibility.



VIEW "A" D60064A - VALVE ASSEMBLY

Item No.	Part No.	Description	Item No.	Part No.	Description	Item No.	Part No.	Description
1	D6002A	Cylinder	32	UA5912.3	Screw, 5/16-18 x 3/4" Soc. Hd. Cap	64	D60050	Spring, Rocker
2	D60008	Valve Body	33	LW516	Lockwasher	65	D60019	Rocker
3	D60009	Valve Stem	34	D60036	Plate, ADJ.	66	D60016	Trigger
4	850880	O-Ring, .301 I.D. x .070 W.	35	100073	Bracket, Front	67	UB2812.2	Roll Pin, 1/8" x 3/4"
5	D60054	Spring, Valve Stem	36	UA3808.1	Screw, #10-32x1/2" Soc. Hd. Cap	69	850243	Roll Pin, 3/32" x 1"
6	86458	O-Ring 1/16" x 1/2" I.D.	37	LW10	Lockwasher #10	70	UA4810.2	Screw, 1/4"-20 x 5/8"
7	UA9807	Plug, 1/4 N.P.T.	38	D60047A	Clincher Lever L.H.			Hex. Soc. Set Cup Pl.
8	851202	O-Ring 1/16" x 2-1/8" I.D.	39	D60021	Driver	71**	112760	Flat Clincher
9	D60004	Cylinder Head	40	D60023	Guide, Driver	74	UA3808.9	Screw #10-32 x 1/2" FH Soc. Hd
10	HN1428.8	Nut, 1/4"-28 Nylon Lock Insert	41	D60022	Former	75	D60032	Plate Support
11	PW14.5	Plain Washer, 1/4"	42	D60045	Pusher	76	UA1804.1	Screw #6-32x1/4" Soc. Hd. Cap
12	D60011	Piston	43	D60052	Spring, Pusher	77	PW6.2	Washer, #6 Plain Narrow
13	851203	O-Ring 3/16" x 1-3/4" I.D.	44	D60043	Anvil	78	CUW1	Washer, 7/16" Curve
14	UA2808.1	Screw, #8-32 x 1/2" Soc. Hd. Cap	45	D60046	Anvil Cap	79	D60035	Spacer, Jam Release
15	LW8	Lockwasher #8	46	D60053	Spring, Jam Release	80	T2174	Roll Pin, 1/8" x 7/8"
16	D60031	Washer	47	D60041	Pin, Jam Release	81	UB3100.2	Spirol Pin 3/16" x 7/8"
17	D60057A	Rod, Piston	48	D60040	Lever, Jam Release	82	UB3100	Dowel Pin 3/16" x 7/8"
18	85014	O-Ring, 3/32" x 1/2" I.D.	49	D60005	Magazine	83	D60058	Pin
19	UA2806.1	Screw, #8-32 x 3/8" Soc. Hd. Cap	51	D60007	Pin, Cover Hinge	84	SW8E	Tooth Lockwasher Ext. #8
20	LW8	Lockwasher, #8	52	86289	Retaining Ring 1/8"	85	LW10	Lockwasher #10
21	D60013	Cam, Pin	53	D60038	Cover	86	T2118	Ring, Retaining 5/32"
22	D60051	Spring, Piston Rod	54	D60037	Guide, Coll, R.H.	87	UA2808.1	Screw, #8-32 x 3/8" Soc. Hd. Cap
23	D60014	Nut, ADJ.	55	D60039	Guide, Coll, L.H.	88	850918	Warning Label
24	UB4110.1	Roll Pin, 1/4" x 5/8"	56	UA3808.3	Screw, #10-32 x 3/8" Soc. Hd. Cap	89	88998	O-Ring 1/16" x 9/16" I.D.
25	UB2808.1	Spirol Pin 5/64" x 9/16"	57	108702	Guide, Top	90	86459	O-Ring 1/16" x 5/8" I.D.
26	UA2808.1	Screw, #8-32 x 1/2" Soc. Hd. Cap	58	D60033	Leaf Spring	91	851201	O-Ring, .301 ID x .07 OW
27	LW8	Lockwasher #8	59	D60173	Lever, Cycle	92*	D16106A	Counter Balance Hanger
28	D60015	Block, Driver	60	D60174	Pin, ADJ.	93	LW8	Lockwasher #8
29	D60024	Link	61	UB2106.5	Roll Pin, 1/8" x 3/8"	94	D60056	Nylon Insert
30	D60049A	Clincher Lever R.H.	62	D60055	Spring, Lever	95	D60156	Spacer
31	D60081	Pin, Pivot	63	D60017	Screw, Trigger			

Complete valve assembly available as P/N D60064A which includes the following:
Item No.'s: 2, 3, 5, 6, 89, 90, 91.

*Special to order.

** SHALLOW CLINCHERS
D60065 R.H. CLINCHER YELLOW
D60066 L.H. CLINCHER YELLOW

MAINTAINING THE D60ADC CARTON CLOSER

WARNING: When working on air tools, note the warnings in this manual, and use extra care when evaluating problem tools.

REPLACEMENT PARTS

Bostitch replacement parts are recommended. Do not use modified parts or parts which will not give equivalent performance to the original equipment.

When ordering replacement parts specify by part number.

ASSEMBLY PROCEDURES FOR SEALS

When repairing a D60ADC make sure the internal parts are clean and freshly lubricated. Use Parker O-lube or equivalent on all "O"-rings. Coat each "O"-ring with O-lube before assembling. Use a small amount of oil on all moving surfaces and pivots. After reassembly, add a few drops of Velocite #10 oil or equivalent through the air line fitting before testing.

WARNING: Eye protection should be worn by the person operating or testing the D60ADC, and by others in the work area.

WARNING: Disconnect the air supply before making adjustments, servicing the tool, clearing jams, or when tool is not in use.

NOTE: A number of o-rings are almost identical in size. Care must be taken to insure only the proper o-rings are used in each location. Match new o-ring with part removed.

TROUBLE SHOOTING

Air Leakage from Exhaust Port:

Check trigger valve body and stem o-rings, piston and piston o-ring for cuts, cracks or excessive wear. Reinstall parts using new o-rings. Refer to assembly procedures for seals.

NOTE: To change damaged piston, remove cylinder head and magazine assembly. Loosen set screw to unlock pivot pin. Slide linkage mechanism and pivot pin simultaneously from adjustment nut and cylinder bar hole. Remove spirol pin, adjustment nut and spring. Remove piston assembly and change piston. Lubricate parts and change o-rings before reassembly. Reverse above procedure to assemble. Refer to exploded view.

Air Leakage from Cylinder:

Check trigger valve, body, and piston rod port o-rings for damage or wear. Reinstall new o-rings. Check cylinder head screws for tightness. If loose, remove cap and inspect o-ring. Look for possible damage to cylinder and cylinder head.

Slow and Short Travel Cycling:

Check for loosened screw and wear of parts. Position eccentric pin as shown and tighten screw. Re-check, for maximum efficiency, slight adjustment of pin at the position shown must be made. Upward direction if short travel occurs and downward direction if slow cycling occurs.

Lubrication is required as noted in Lubrication section.

Excessive Jams:

Check for broken leaf spring or incorrect spring load, Maintain load of approx. one to two lbs.

NOTE: Too little load will allow belt of staple to slide backwards or sideways; too high load will prevent correct feed of belt due to excessive drag.

Check for slow and short travel cycling.

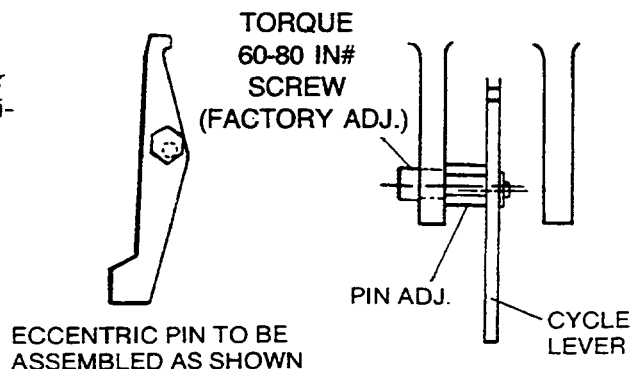
Check coil guides for proper adjustment. Check for broken leaf spring.

Check clinchers screws for looseness. Tighten screws.

Check for leg length adjustment & clincher size.

Correct adjustment, if required.

Check for insufficient lubrication.



Uneven Clinch:

- Check for leg length adjustment & clincher size.
- Check for coil guide adjustment. Correct adjustments.

Unclinched Staple:

- Check for broken or loose clinchers. Replace or tighten clinchers.
- Check for slow and short travel cycling.

Driver or Former Replacements:

- Remove six (6) screws holding cylinder assembly from magazine assembly. Remove two (2) screws.
- Replace broken driver or former.

Clincher Replacement:

- Loosen six (6) screws and remove front bracket. Change clinchers (see parts chart for part nos.) one at a time to prevent reversing clinchers.

LIMITED WARRANTY

Bostitch, Inc., warrants to the original retail purchaser that this product is free from defects in material and workmanship, and agrees to repair or replace, at Bostitch's option, any defective product within 1 year from the date of purchase. This warranty is not transferable. It only covers damage resulting from defects in material or workmanship, and it does not cover conditions or malfunctions resulting from normal wear, neglect, abuse, accident or repairs attempted or made by other than our regional repair center or authorized warranty service center. Driver blades, bumpers and o-rings are considered normally wearing parts.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS WARRANTY. BOSTITCH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This warranty is limited to sales in the United States and Canada. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty service, return the product at your expense together with proof of purchase to a Bostitch Regional or authorized warranty repair center. You may call us at 1-800-556-6696 for the location of authorized warranty service centers in your area.