Universal Fastener Outsourcing

800-352-0028 or 479-443-9292 WWW.911-NAILS.COM

Ballistic NailScrew® Driver

MODEL NO: NSDCN75 WWW.911-NAILS.COM

OPERATION MANUAL

NSDCN75 Technical Data

Length	12-1/4"
Width	5"
Height	12-1/2"
Weight	6.4lbs
Operating Pressure	70-120psi

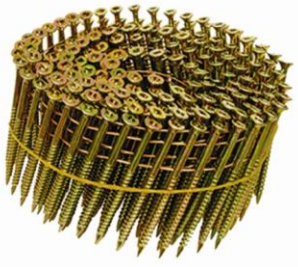
NAIL DIMENSIONS:

15° Round Head Coil nails

Length: 1-3/4" – 3"

Shank diameter: .086"– .131"

Head: .224" – .276"



PACKING LIST:	QTY
NSDCN75 COIL NAILER	1
S5 HEX KEY	1
S4 HEX KEY	1
S3 HEX KEY	1
AIR TOOL OIL	1
SAFETY GLASSES	1
BUMP OR SEQUENTIAL FIRE TRIGGER	1

Instruction Manual Contents:

Description: Ballistic NailScrew Driver: Model NO. NSDCN75 is a heavy duty, coil fed, pneumatic nailer, using compressed air as power source. It is designed to drive 15° plastic sheet coil or 15° wire coil with full round head **Ballistic NailScrews®** or nails 1-1/4" to 3" in length and 0.086″ to 0.131″ in diameter. The NSDCN75 was specialty designed for **UFO's Ballistic NailScrew®** program with the ease of installation and durability in mind. The power to easily drive color matched **Ballistic NailScrews®** into wood or composites into light gauge (12 to 20ga) steel frame and stop the drive when it is flush. This is possible, but must be done a little differently that what you may be used to when you are attaching wood to wood, so please follow these step by step rules when installing into steel.

- Consistent air pressure is the key to success. The closer to the compressor the better, but when long runs of 3/8"air hose are necessary, the use of a surge tank will be necessary.
- Keep the pressure high--110 to120psi; the high velocity this creates is our friend. **Please understand this is where we are different than fastening to wood.** Always be sure to test fire into the actual material scraps, adjusting the depth of drive on the tool **(See C Fig. 19)** to compensate for the excess pressure. Lower the pressure as a **last resort** and as little as necessary to get the job done.
- The NSDCN75 should be sequentially fired into steel. First, place the nose of the tool where you want the fastener to be; this will depress the safety. Second, use the trigger to fire the tool in this sequence each and every time. The tool must be placed squarely and very firmly; try not to let the tool bounce off the work surface. This will give a more consistent drive and finished look.
- **When** you have a **Ballistic NailScrew®** that is too high or low, use a T15 Torx bit in a screw driver or impact driver to adjust the NailScrew. Go very slowly to the desired depth. High rpm will strip out the NailScrew. Go slow and you will be amazed at the results.
- This is very important! Please make sure the frames are set very firm--not springy or bouncy. If the frame moves much, it will cause the NailScrews to be set very inconsistently.

The NSDCN75 has very low noise level, making it ideal for installing **Ballistic NailScrews®** for Composite fencing to wood or steel, construction of pallets and crate assembly, composite or wood deck construction, roof decks, sub-floor, sidewall sheathing, anywhere screws are being used and you want to save time installing and still do a quality job etc. (see www.911-nails.com)

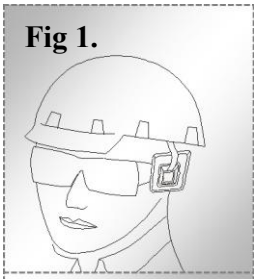
ONLY USE PARTS AND ACCESSORIES RECOMMENDED BY THE MANUFACTURER.

Parts & Service Contact: http://elder-hayesinc.com or call **1-800-769-0775**

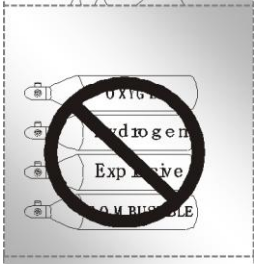
IMPORTANT! Upon receipt of your NailScrew® Driver, Read and follow all safety rules and operating instructions.

Important Safety Rules

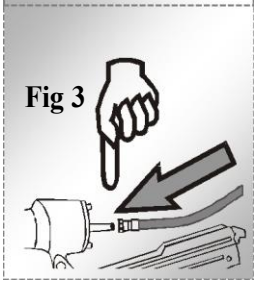
1. **KEEP CHILDREN AWAY.** All children should be kept away from the work area. Do not allow them to handle the tool.



2. **USE SAFETY GLASSES AND EAR PROTECTION.** Air tool operators and others in the work area should always wear safety glasses to prevent injury from fasteners and flying debris during use and when loading and unloading this tool. Wear ear protection to safeguard against hearing loss. (See fig 1.)
3. **NEVER USE OXYGEN, COMBUSTIBLE FUELS OR ANY OTHER BOTTLED GAS** as a power source as it will cause explosion and serious personal injury. (See Fig 2.)



4. **DO NOT CONNECT TOOL TO COMPRESSED AIR WITH PRESSURE EXCEEDING 120PSI.**
5. **DO NOT USE AN EXCESSIVELY LONG AIR HOSE** in the working area as it will create an operator tripping hazard. Secure all connections tightly.
6. **CARRY TOOL ONLY BY THE HANDLE and keep finger off the trigger pull.** This will allow the safety yoke mechanism to prevent the unintentional firing of fasteners.
7. **KEEP THE TOOL POINTED AWAY FROM YOURSELF AND OTHERS** at all times. Keep hands and all body parts away from the nose area and rear area of the tool to guard against possible injury.



8. **DISCONNECT TOOL FROM AIR SUPPLY BEFORE LOADING FASTENERS** to prevent accidental fastener firing. (See Fig3.)
9. **DO NOT DEPRESS TRIGGER OR SAFETY YOKE MECHANISM DURING FASTENER LOADING** to prevent the unintentional firing of a fastener that can cause personal injury.
10. **DISCONNECT TOOL FROM AIR SUPPLY HOSE** and disconnect from air compressor before performing maintenance, altering accessories, or while not in operation.
11. **DO NOT OPERATE ON SCAFFOLDINGS OR LADDERS,** and do not work in airtight containers or vehicles.
12. **DO NOT DRIVE FASTENERS CLOSE TO THE EDGE OF THE WORK PIECE.** The work piece could split, causing the fastener to fly free or ricochet, causing personal injury.
13. **DO NOT DRIVE FASTENERS ON TOP OF OTHER FASTENERS** or the fasteners can ricochet causing personal injury.
14. **NEVER USE A TOOL THAT IS LEAKING AIR, HAS MISSING OR DAMAGED PARTS, OR IS IN NEED OF REPAIR.** Make sure that all screws are securely tightened.
15. **INSPECT DAILY FOR FREE MOVEMENT** of trigger, safety mechanism and spring to insure safe and proper operation of the tool.
16. **ONLY USE PARTS AND ACCESSORIES RECOMMENDED BY THE MANUFACTURER.**

Parts & Service Contact: **http://elder-hayesinc.com** or call **1-800-769-0775**

POWER SOURCE

This tool is designed to operate on clean, dry, compressed air at regulated pressures between 70 and 120 PSI (4.9 and 8.3 bar) (Pounds per Square Inch). The preferred system would include a filter.

CAUTION: All line components (hoses, connectors, filters, regulators, etc.) must meet 150% of the maximum system pressure. Please try to use a hose of ID 3/8" connecting nailer with compressor. Disconnect tool from air supply before performing maintenance, clearing a jammed fastener, leaving work area, moving tool to another location, or handing the tool to another person.

PREPARING THE TOOL BEFORE DRIVING

1. After reading and understanding this entire manual, connect tool to air supply. **CAUTION:** Keep tool pointed away from you and others at all times. Always connect tool to air supply before loading fasteners. Do not load fasteners with trigger or safety depressed. Always wear Z87 approved safety glasses, and hearing protection when preparing or operating the tool. Never use a tool that leaks air or needs repair.
2. Depress Handle and open the Latch. Rotate the Upper Nail Housing to the side of the Body.

3. The Adjuster Plate can be moved up and down by twisting the spindle and pulling up to decrease or pushing down to increase to the length of nail **(FIG.15)** , the Adjuster Plate should be adjusted correctly to the position indicated inside Lower Nail Housing. **(FIG.16)**

(FIG.15)

(FIG16)

4. Place a coil of nails over the Lower Nail Housing. Uncoil enough nails to reach the Feed Paw and place the second nail between the teeth on the Feed Paw.

5. Close the Nail Housing door and depress the Latch

6. Adjust directional EXHAUST deflector so that the exhaust air blast will be directed away from the operator. Grasp the deflector and rotate it to the desired position for the current application.

RUBBER NO-MAR TIP:

ADJUSTING THE DRIVE DEPTH:

Driving depth will be adjusted by rolling the **red** wheel **(FIG. 19)** Test fire a fastener and check depth. If the nail is driven too high, rotate the rolling wheel clockwise (right) if the nail is too deep rotate the rolling wheel counter clockwise (left). Repeat this step until you reach desired depth. The **red** tear drop on the trigger **(FIG. 19)** will allow you to change from sequential to bump fire. Reach behind the trigger and push up **(FIG. 20)** this will allow raise the **red** tear drop then you can rotate the tear drop 180º so it will drop back into trigger flush as shown in **(FIG. 21).**

(FIG. 19)

(FIG. 20)

(FIG. 21)

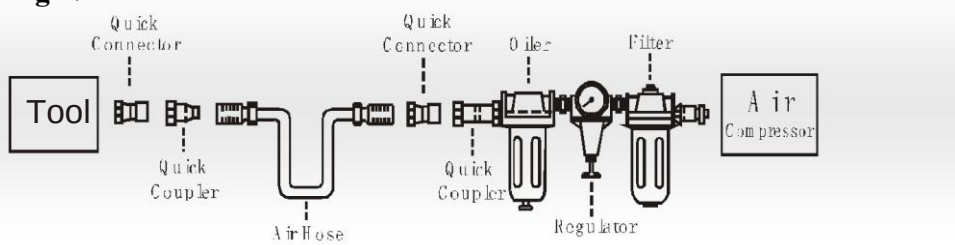
CLEARING A JAMMED FASTENER:

1. CAUTION: Disconnect tool from air supply.
2. Open latch, rotate lower housing and remove the nails of the lower housing.
3. Use a slender, soft steel rod to drive the drive blade to its upper most position. Use needle nose pliers to remove the jammed fastener.
4. Follow instructions in PREPARING THE TOOL BEFORE DRIVING to reload fasteners.

Service advice:

1. Use clean, dry and regulated compressed air, 8 cfm at 5.0-7.5 bar (70-120psi) and 100-120psi at the tool.
2. Never exceed the maximum and minimum pressures. Too low or too high pressure will cause noise, increased wear or misfiring.
3. When connecting the air supply, always keep hands and body from the discharge area of the tool.
4. A filter-regulator-lubrication is required and should be located as close to the tool as possible (see fig.4).
5. Keep the air filter clean. A dirty filter will reduce the air pressure to the tool, causing a reduction in power and efficiency.
6. For better performance, install a quick connector in your tool and quick coupler on the hose, if possible.
7. Make sure that all connections in the air supply system are sealed to prevent air loss.

Fig 4.



☞WARNING: Never operate tool unless safety nose is in contact with work-piece. Do not operate tool without fasteners or damage to the tool may result. **Never fire fasteners into air! Fasteners may injure the operator or others, and damage to the tool may result**.

Maintenance

☞WARNING: Disconnect the tool from the air compressor when not in use and before adjusting, clearing jams, servicing, or relocating.

- Regular lubrication. If your tool does not have an in-liner automatic oilier, place 2 to 6 drops of pneumatic tool oil into the air inlet before each work day or after 2 hours of continuous use, depending upon the characteristics of your work or type of fasteners.
- As needed, check and change all worn or damaged o-rings, seals, etc. Tighten all screws and caps to prevent personal injury.
- Inspect trigger and safety mechanisms to assure the safety system is complete and functional; guard against loose and missing parts, build-up, and binding or sticking parts.
- Keep magazine and the nose of the tool clean and free of dirt, lint or abrasive particles.
- **ONLY USE PARTS AND ACCESSORIES RECOMMENDED BY THE MANUFACTURER.**
  Parts & Service Contact: http://elder-hayesinc.com or call **1-800-769-0775**

Troubleshooting

Following are common operating problems and solutions.

Please read carefully for suggested solutions.

☞ WARNING: If any of the following symptoms occur during tool operation, stop using the tool immediately or serious personal injury could result! Only a qualified person or an authorized service center can perform repairs or replacement of tool parts. Disconnect tool from air supply before attempting any repair or adjustment. When replacing O-rings or cylinder, lubricate with air tool oil before assembly.

SYMPTOM	PROBLEM	SOLUTIONS
Air leak near top of tool or in trigger area	1. O-ring in trigger valve is damaged. 2. Trigger valve head is damaged. 3. Trigger valve stem, seal or O-ring is damaged.	1. Check and replace O-ring. 2. Check and replace. 3. Check and replace trigger valve stem, seal or O-ring.
Air leak near bottom of tool.	1. Loose screws. 2. Worn or damaged O-rings or bumper.	1. Tighten screws. 2. Check and replace O-rings or bumper.
Air leak between body and cylinder cap.	1. Loose screws. 2. Worn or damaged O-rings or seals.	1. Tighten screw. 2. Check and replace O-rings or bumper.
Fastener being driven to too deep.	1. Need to adjust depth control. 2. Air pressure is too high. 3. Worn bumper.	1. Adjust depth control **(Fig. 19)** 2. Adjust the air pressure. 3. Replace bumper.
Tool does not operate well: cannot drive fastener or operates sluggishly.	1. Inadequate air supply. 2. Inadequate lubrication. 3. Worn or damaged O-rings or seals. 4. Exhaust port in cylinder head is blocked.	1. Verify adequate air supply. 2. Place 2 or 6 drops of oil into air inlet. 3. Check and replace O-rings or seal. 4. Replace damaged internal parts.
Tool skips fasteners.	1. Incorrect dish adjustment. 2. Dirt in front plate. 3. Dirt or damage prevents fasteners from moving freely in magazine. 4. Worn or dry O-ring on feed piston or lack of lubrication. 5. Cylinder covers seal leaking.	1. See Instruction #3 **(Fig. 15)** 2. Clean drive channel on front plate. 3. Magazine needs to be cleaned. 4. O-ring needs to be replaced and lubricated. 5. Replace Sealing washer.
Tool jams.	1. Incorrect dish adjustment. 2. Damaged or worn driver guide. 3. Magazine or nose screw loose. 4. Worn or dry O-ring on feed piston or lack of lubrication.	1. See Instruction #3 **(Fig. 15)** 2. Check and replace the driver. 3. Tighten the magazine. 4. O-ring needs to be replaced and lubricated

NSDCN75 PARTS LIST

ITEM	PART#	DESCRIPTION
101	810108	DEFLECTOR BLOT(3M2353)
102	920615	O - RING
103	810109	DEFLECTOR
104	920502	HEX.SOC.HD.SCREW
105	820676	HEX.SOC.HD.BOLT
106	810110	CAP
107	810111	SEAL
108	810864	COMPRESSION SPRING
109	820412	WASHER
110	810112	COLLAR
111	920808	O - RING
112	830355	O - RING
113	810313	CYLINDER CAP SEAL
114	830351	O - RING
115	810113	DRIVER UNIT
116	810114	CYLINDER
117	830243	O - RING
118	830248	O - RING
119	810115	CYLINDER SPACER
120	830254	O - RING
121	830525	BUMPER
122	810116	HD.VALVE PISTON
123	810117	WASHER
201	830294	O - RING
202	820350	PLUNGER CAP
203	830230	O - RING
204	920522	O - RING
205	810910	VALVE PLUNGER
206	920524	O - RING
207	810886	SPRING
208	830340	O - RING
209	830533	PLUNGER
210	820337	TRIGGER VALVE HEAD
211	810619	PIN
212	820375	COVER-PLUNGER
213	830297	O - RING
214	830211	O - RING
215	920176	SPRING PIN
216	920824	SPRING PIN
217	920530	SPRING PIN
218	810101	TRIGGER UNIT
219	810882	SPRING
301	810118	GUN BODY UNIT
302	810119	END CAP
303	810629	DUSTY COVER
304	820082	AIR PLUG
305	810120	O - RING
401	820661	HEX.SOC.HD.BOLT
402	810121	O - RING
403	810122	NOSE PIECE
404	810123	HEX.SOC.HD.BOLT

ITEM	PART #	DESCRIPTION
405	830223	O - RING
406	820128	FEED PISTON
407	830234	O - RING
408	810124	PUSHER SPRING
409	810125	PUSHER SPRING
410	810961	FEED BUMPER
411	820139	FEED PISTON CAP
412	820816	C - RING
413	810349	DOOR LATCH
414	810126	LATCH SPRING
415	810127	DOOR
416	840033	PIN
417	810128	PIN-NAIL STOP
418	820051	PU RETAINER
419	920627	URETHANE RETAINER
420	810129	SAFETY SPRING
421	810130	NAIL STOP
422	810131	DOOR SHAFT PIN
423	810132	SAFETY A
424	810835	PROTECTIVE CASING
425	920211	E - RING
426	810133	SAFETY GUIDE
427	810134	SAFETY SPRING
428	920371	SPRING PIN
429	810302	SAFETY B UNIT
430	820534	ADJUST AXIE
431	810135	SAFETY COVER
432	810136	ADJUST ROD
433	830271	O - RING
434	810137	MAGAZINE CASE
435	810948	SPRING BASE
436	820216	MAGAZINE SHAFT PIN
437	820512	SPACER
438	810803	PULL SPRING
439	810138	SPACER
440	810954	SPRING BASE A
441	810139	MAGAZINE COVER
442	810140	NAIL STOP
443	810141	STOPPER FINGER SPRING
444	810142	PIN-NAIL STOP
445	810143	FEED FINGER
446	820132	PIN FEED PISTON
447	810335	FEED FINGER SPRING
448	920533	SPRING PIN
449	810144	SPRING COVER
450	830015	BOLT CAP
451	820811	FLAT WASHER
452	810145	MUZZLE PROTECTOR
453	820068	PROTECTOR WASHER
454	810938	DUST SHIELD PLUG

NSDCN75