

EVERWIN

ECAR-S / ECAR-D

Long Nose Mattress Spring Stapler



OPERATIONS and MAINTENANCE MANUAL
CE DECLARATION OF CONFORMITY

⚠ WARNING:

BEFORE OPERATING THIS TOOL, ALL OPERATORS SHOULD READ AND STUDY THIS MANUAL TO UNDERSTAND AND FOLLOW THE SAFETY WARNINGS AND INSTRUCTIONS. KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE.

INTRODUCTION

The tool is designed for high speed, high volume stapling. These tools will deliver efficient, dependable service when used correctly and with care. As with any fine power tool, the manufacturer's instructions must be followed for best performance. Please study this manual before operating the tool and understand the safety warnings and cautions. The instructions on installation, operation and maintenance should be read carefully, and the manuals kept for reference. NOTE: Additional safety measures may be required because of your particular application of the tool. Contact your EVERWIN representative or distributor with any questions concerning the tool and its use. Everwin Pneumatic Corp., Taichung City, Taiwan 41353.

INDEX

1-Year Limited Warranty -----	3
CE Declaration of Conformity -----	4
Specifications -----	5
Technical Data -----	5
Safety Instructions -----	6
Air Supply And Connections -----	6
Fastener Loading -----	6
Operation -----	6
Maintaining The Pneumatic Tool -----	7
Lubrication -----	7
Filter-Regulator-Lubricator -----	7
Responsibility For Eye Protection -----	7

1-YEAR LIMITED WARRANTY

(U.S. and Canada Only)

EVERWIN products are designed and manufactured to the highest standards of both material and workmanship. EVERWIN warrants to the original retail purchaser that the product purchased is free from defect in material and workmanship and agrees to repair or replace at EVERWIN 's option any defective EVERWIN pneumatic stapler or nailer for a period of one year, subject to the exclusions and limitations described hereunder. To honor a warranty claim, EVERWIN and its authorized distributor need proof of purchase, may request the damaged tool, serial number of the damaged tool, photos/videos of the defect for test and evaluation to determine whether the damaged tool is within warranty conditions; your cooperation in this regard will be appreciated to expedite the claim process and to help with EVERWIN's continuous efforts in quality improvement.

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

WARRANTY EXCLUSIONS

The following warranty exclusions apply:

- A. Normal wear parts are not covered by this warranty. Examples of such parts include, o-rings and seals, driver blades, bumpers, pistons and piston rings.
- B. Failure due to normal wear, neglect, abuse, misuse, misapplication, accidents, over-pressure usage, improper storage, shipping damages, improper maintenance, operation not within the operation manual's specification etc. are not covered by this warranty.
- C. Labor charges, loss, repairs from improper maintenance and/or usage of non-EVERWIN parts are not covered by this warranty.
- D. This warranty does not apply to production or industrial tools as defined by EVERWIN; industrial or production tools are covered on the following grounds.

GROUND FOR INDUSTRIAL / PRODUCTION TOOL COVERAGE

For high production industrial tools, coverage is limited to 90 days due to high volume usage; warranty on production tools cannot be guaranteed due to unpredictable circumstances. Tools are subjected to abuse such as hammering or usage of adjustment tools, especially true in loan tool programs. Upon receiving a report, EVERWIN and its authorized distributor may request the damaged tool, serial number of the damaged tool (as a gauge for the tool's age) and photos/videos of the defect for test and evaluation to find root causes. EVERWIN's analyst will judge the issuance of defective parts and will replace at no charge if evaluation results show that the root cause is defect in material and/or workmanship.

Note: all warranty services will be carried out by EVERWIN authorized repair centers, please contact sales@everwinpneumatic.com for the location most convenient for you.

CE DECLARATION OF CONFORMITY

CE Declaration of conformity EVERWIN PNEUMATIC CORP. declares that the product as described in attached documentation is in conformity with the Machinery Directive 2006/42/EC and the European standard EN 792-13 .	ENGLISH
CE Dichiarazione di conformità EVERWIN PNEUMATIC CORP. dichiara, assumendo la piena responsabilità, che questa fissatrice è conforme alla Direttive Europee 2006/42/EC e alla norma armonizzata EN 792-13 .	ITALIANO
CE Konformitätserklärung EVERWIN PNEUMATIC CORP. erklärt hiermit in alleiniger Verantwortung das dieses Gerät übereinstimmt mit den Europäischen Richtlinien 2006/42/EC und den Europäischen Norm EN 792-13 .	DEUTSCH
CE Déclaration de conformité EVERWIN PNEUMATIC CORP. déclare et prend sur soi toute la responsabilité de cette déclaration, que le produit est en conformité avec les Directives Européennes 2006/42/EC et avec la norme harmonisée EN 792-13 .	FRANCAIS
CE konformiteitsverklaring EVERWIN PNEUMATIC CORP. verklaart hierbij onder eigen verant woordelijkheid dat deze machine in overeenstemming is met de Europese Richtlijnen 2006/42/EC en de Europese norm EN 792-13 .	NEDERLANDS
CE Declaracion de conformidad EVERWIN PNEUMATIC CORP. declaramos bajo nuestra sola responsabilidad que este producto esta en conformidad con las Directivas Europeas 2006/42/EC y con la normativa EN 792-13 .	ESPAGNOL
Overensstemmelseserklæring / CE Deklaration EVERWIN PNEUMATIC CORP. erklærer herved, at produktet er i overensstemmelse med nedenstående normer eller normative dokumenter 2006/42/EC i henhold til bestemmelserne i EU's direktiv EN 792-13 .	DANSK
Överstämmeelseförklaring / CE Deklaration EVERWIN PNEUMATIC CORP. förklarar härmed att produkten överensstämmer med följande normer och direktiv 2006/42/EC och SS-EN 792-13 .	SVENSK
SAMSVARSERKLÆRING / CE Deklaration EVERWIN PNEUMATIC CORP. erklærer herved att produktet er i samsvar med følgende normer og direktiv 2006/42 EC og NS-EN 792-13 .	NORSK
Todistus CE standardinmukaisuudesta EVERWIN PNEUMATIC CORP. vakuuttaa täten tuotteen vastaavan seuraavia standardeja ja direktiivejä: 2006/42/EC ja EN 792-13 .	FINSK
Deklaracja zgodności CE EVERWIN PNEUMATIC CORP. oświadcza, że produkty opisane w załączonej dokumentacji spełniają wymogi Dyrektywy Maszynowej 2006/42/EC oraz Europejskiej normy EN 792-13 .	POLSKIE

Machine Type: ECAR-S, ECAR-D

Machine Name: Pneumatic Fastener Driving Tool

Place of Issue: No. 7, Wugong 7th Rd., Wufeng Dist., Taichung City 41353, Taiwan.

Date of Issue: Aug. 20, 2019

Signature of Issuer: _____



Hung-Ming Chuang
General Manager

SPECIFICATIONS

TOOL SPECIFICATIONS

MODEL	ECAR-S & ECAR-D
HEIGHT	35.24" (895mm)
WIDTH	2.18" (55.4mm)
LENGTH	18.23" (463mm)
WEIGHT	7lbs. (3.2kg)
OPERATING PRESSURE	70 to 100 psi (5 to 7 bars)
LOADING CAPACITY	100 Staples
AIR CONSUMPTION at 80 psi (5.6 bar) pressure	0.064 ft ³ (1.8 liter/cycle)

FASTENER SPECIFICATIONS

MODEL	ECAR-S & ECAR-D
LENGTH	3/4" or 1" (19 or 25mm)
CROWN WIDTH	3/8" (9.5mm)
WIRE DIAMETER	0.062 x 0.057" (1.6 x 1.4mm)

OPERATING PRESSURE

70 TO 100 psi (5 to 7 kg/cm²). Select the operating pressure within this range for best fastener performance. **DO NOT EXCEED THIS OPERATING PRESSURE.**

TECHNICAL DATA

AIR CONSUMPTION

The tools require

ECAR-S, ECAR-D: 3.82 cfm (1.8 liter/second)

of free air to operate at the rate of 60 nails per minute, at 80 psi (5.6 kg/cm²). Take the actual rate at which the tool will be run to determine the amount of air required. For instance, if your fastener usage averages 30 nails per minute, you need 50% of the tool air consumption in running at 60 nails per minute.

NOISE

A-weighted single-event sound power level LWA, 1s:

ECAR-S, ECAR-D: 93.0 dBA

A-weighted single-event emission sound pressure level at work station LpA 1s,d:

ECAR-S, ECAR-D: 83.7 dBA

VIBRATION

Vibration characteristic value for

ECAR-S, ECAR-D: <2.5 m/s²

These values are determined and documented in accordance to ISO 8662-11.

This value is a tool-related characteristic value and does not represent the influence to the hand-arm-system when using the tool. An influence to the hand-arm-system when using the tool will for example depend on the gripping force, the contact pressure force, the working direction, the adjustment of mains supply the workpiece support.

SAFETY INSTRUCTIONS

⚠WARNING:

THESE INSTRUCTIONS ARE INTENDED TO PROVIDE SAFE, TROUBLE-FREE SERVICE FROM YOUR STAPLER. READ THEM CAREFULLY. OPERATORS SHOULD WEAR SAFETY GLASSES OR GOGGLES WHEN OPERATING THIS TOOL. WHEN THE AIR SUPPLY IS CONNECTED KEEP YOUR HANDS AND BODY AWAY FROM THE FASTENER DISCHARGE AREA. ALWAYS DISCONNECT THE AIR SUPPLY BEFORE MAKING ADJUSTMENTS, OR SERVICING THE TOOL.

A reasonable amount of care will prevent damage to vital working parts and increase the life of the tool. Do not abuse this tool. A moderate amount of care will give long efficient service.

AIR SUPPLY AND CONNECTIONS

Clean dry air is vital. Air operated tools and equipment need clean, dry, lubricated air for top performance, low maintenance, and long service. The major cause of failure in air operated equipment is dirty, moist, improperly lubricated air. Failure appears as a slow, continuous deterioration of the tool. Dirt, grit and pipe scale generally present in air line can cause severe abrasive wear in valves and cylinder walls. A filter-Regulator-Lubricator unit is essential and should be installed as close to the tool as possible: preferably within 15 feet (4.6 meters). Periodic checks should be made to insure the unit is working properly. A dirty filter will result in pressure loss. As dirt accumulates in the filter, the pressure drop increases resulting in lower pressure at the tool and less efficient fastener driving. Fill the lubricator with Air Tool Lubricant, Mobil Velocite #10, or equivalent. Do not use a detergent oil.

The air supply must be capable of maintaining an air pressure of 50-80 pounds (3.4 - 5.5 atmospheres) per square inch at the tool. **OPERATING PRESSURE MUST NOT EXCEED 100 PSIG (6.8 atmospheres)**. Check the air hose or pipe before attaching it to the filter unit to be sure it is clean.

DO NOT CONNECT FEMALE QUICK COUPLER DIRECT TO TOOL. ATTACH MALE FREE FLOW NIPPLE TO TOOL, AND FEMALE QUICK COUPLER TO AIR HOSE. IF CONNECTED IMPROPERLY AND DISCONNECTED FROM AIR SUPPLY TOOL WILL REMAIN CHARGED WITH AIR, WILL NOT FREELY EXHAUST AND WILL DRIVE A FASTENER IF TRIGGER MECHANISM IS ACTUATED.

All hoses, pipes and fittings must have a 3.8" (9.5mm) minimum inside diameter. Hose fittings must have a 9/32" (7.1mm) minimum inside diameter. Air requirements will vary with the type of material to be fastened, and the operating speed. Do not use more air pressure than required for the job. Air pressure in excess of the amount required to provide adequate fastening, wastes compressed air and may result in damage to equipment.

For best results the air pressure can be determined by driving a few fasteners into the work and adjusting the air pressure until the staple crown is driven down to the work. Excessive air pressure may cause the staple crown to cut the material.

After all air connections are made, check to be sure they are tight to prevent air loss, and insure best performance.

FASTENER LOADING

⚠WARNING:

ALWAYS LOAD WITH NOSE POINTING AWAY FROM YOU.

Pull cover back until locked by detent pin. Insert stick of fasteners and push forward into channel. Then push cover forward until locked by detent pin. The tool is now ready to operate.

OPERATION

Do not attempt to operate the tool without fasteners, or drive fasteners into the air, as the life of the tool will be reduced, plus the danger involved by driving fasteners into the air. Hold the tool with a firm grip on the rubber handle, and on cylinder assembly below the valve housing. Place the tool over the location where the fastener is required and pull the trigger.

MAINTAINING THE PNEUMATIC TOOL

⚠WARNING: DISCONNECT THE AIR SUPPLY BEFORE SERVICING THE TOOL.

When ordering replacement parts, be sure to specify the part number. Do not order by item number or description: order only by part number. Do not wrench, twist or force any parts during servicing, as damage may result from such abuse.

Be sure all screws are checked periodically for tightness. Observe caution against stripping threads when tightening screws.

If the stapler is disassembled for replacement of parts, clean and remove particles of grit and dirt. Lubricate all moving parts after cleaning. Apply Magnalube®-G or equivalent to all O-rings. Examine all parts for wear during servicing so that replacement parts can be ordered in advance of trouble.

IMPORTANT: A PERIODIC CHECK SHOULD BE MADE OF THE DRIVE BUMPER, RETURN BUMPER, AND THE PISTON PLUG. A WORN BUMPER SHOULD BE REPLACED BEFORE DAMAGE CAN OCCUR TO THE RELATED PARTS. IF THE DRIVE BUMPER OR PISTON PLUG IS SEVERELY CHIPPED IT SHOULD BE REPLACED IMMEDIATELY. CHECK FOR AIR LEAKAGE ABOUT RETURN BUMPER. REPLACE IF NECESSARY.

The machine should be cleaned periodically like all tools which are subjected to dirt and grit.

NOTE: FOR BEST RESULTS, WHEN REASSEMBLING VALVE HOUSING ASSEMBLY TO CYLINDER, TIGHTEN VALVE HOUSING UNTIL CONTACT IS MADE WITH TOP OF CYLINDER. BACK OFF VALVE HOUSING UNTIL TRIGGER IS CONVENIENTLY LOCATED, PREFERABLY TO THE REAR OF THE MACHINE.

When servicing the tool, be sure to replace the bumpers, piston plug and O-rings. Omission of these parts will result in serious damage or air leakage.

LUBRICATION

Use Air Tool Lubricant, Mobil Velocite #10, or equivalent, for all normal conditions. Do not use detergent oil. Tools which are in constant operation should be lubricated daily with a reasonable amount of oil. Lubricate regularly instead of excessively.

FILTER-REGULATOR-LUBRICATOR

See manufacturer's instructions for maintenance of this unit. It should be thoroughly cleaned periodically for best results. Dirt in air lines may damage precision cylinders and clog valves.

RESPONSIBILITY FOR EYE PROTECTION

Because this tool can cause flying fasteners or debris, safety eye protection is necessary for both users of the tool and those in the immediate working area. Employers and purchasers of this tool are in the best position to ensure that these persons use eye protection.

⚠WARNING: EYE PROTECTION which conforms to ANSI / CE 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 connecting to air supply, 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 ANSI Z87.1 and 89/686/EEC, and provide both frontal and side protection. **NOTE:** Non-side shielded spectacles and face shields alone do not provide adequate protection.