



## **ECAR-S**

### **Long Nose Mattress Spring Stapler**



## **OPERATING & MAINTENANCE MANUAL**



**WARNING**

BEFORE USING THIS TOOL, STUDY THIS MANUAL TO ENSURE SAFETY WARNING AND INSTRUCTIONS.

KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE.

APRIL 2021

## **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 <sup>3</sup> (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/cm<sup>2</sup>). 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/cm<sup>2</sup>). 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**

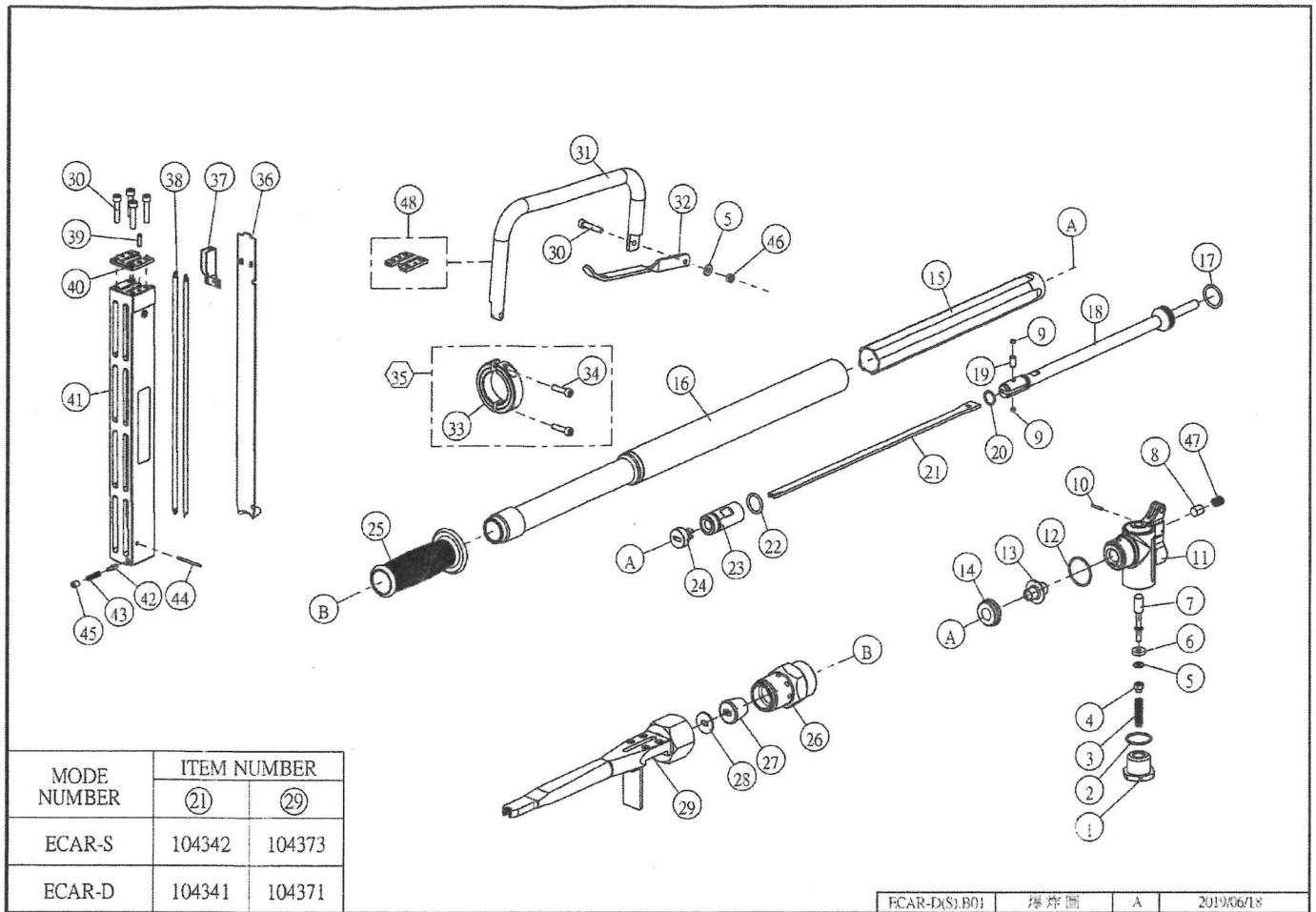
### **VIBRATION**

Vibration characteristic value for

**ECAR-S, ECAR-D: <2.5 m/s<sup>2</sup>**

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.



| ECAR-S |          | NOTE: When ordering spare parts, please state the part name and part number. |      |                                                                                                                               |          |                       |      |      |          |             |      |
|--------|----------|------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|------|------|----------|-------------|------|
| Item   | Part NO. | Description                                                                  | Q'ty | Item                                                                                                                          | Part NO. | Description           | Q'ty | Item | Part NO. | Description | Q'ty |
| 1      | 104362   | Valve Plug                                                                   | 1    | 33                                                                                                                            | 104401   | Trigger Guard         | 1    |      |          |             |      |
| 2      | 101856   | O-Ring                                                                       | 1    | 34                                                                                                                            | 100530   | Screw M5 x 20         | 2    |      |          |             |      |
| 3      | 104358   | Compression Spring                                                           | 1    | 35                                                                                                                            | 104400   | Assy-Trigger Guard    | 1    |      |          |             |      |
| 4      | 104363   | Nut                                                                          | 1    | 36                                                                                                                            | 104345   | Magazine Cover        | 1    |      |          |             |      |
| 5      | 100426   | Washer                                                                       | 2    | 37                                                                                                                            | 104344   | Pusher                | 1    |      |          |             |      |
| 6      | 104388   | Seal-Valve Stem                                                              | 1    | 38                                                                                                                            | 100777   | Pusher Spring         | 2    |      |          |             |      |
| 7      | 104364   | Valve Stem                                                                   | 1    | 39                                                                                                                            | 104354   | Pin-Spring            | 1    |      |          |             |      |
| 8      | 104359   | Muffler                                                                      | 1    | 40                                                                                                                            | 104360   | Wear Plate            | 1    |      |          |             |      |
| 9      | 104340   | Insert                                                                       | 2    | 41                                                                                                                            | 104347   | Magazine              | 1    |      |          |             |      |
| 10     | 100765   | Spring Pin                                                                   | 1    | 42                                                                                                                            | 104357   | Spring-Cover Detent   | 1    |      |          |             |      |
| 11     | 104338   | Valve Housing Assy                                                           | 1    | 43                                                                                                                            | 104356   | Spring-Cover Detent   | 1    |      |          |             |      |
| 12     | 104390   | O-Ring                                                                       | 1    | 44                                                                                                                            | 104355   | Spring Pin            | 1    |      |          |             |      |
| 13     | 104389   | Bumper Supporter                                                             | 1    | 45                                                                                                                            | 104352   | Headless Screw        | 1    |      |          |             |      |
| 14     | 104369   | Return Bumper                                                                | 1    | 46                                                                                                                            | 100571   | Anchor Block Lock Nut | 1    |      |          |             |      |
| 15     | 104392   | Cylinder Sleeve                                                              | 1    | 47                                                                                                                            | 104480   | Exhaust Cover         | 1    |      |          |             |      |
| 16     | 104394   | Cylinder Assembly                                                            | 1    | 48                                                                                                                            | 104361   | Wear Plate            | 1    |      |          |             |      |
| 17     | 104406   | O-Ring                                                                       | 1    | MOQ for items in the following categories is 10pcs, order quantities under 10pcs for these items will be adjusted accordingly |          |                       |      |      |          |             |      |
| 18     | 104391   | Upper Piston                                                                 | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 19     | 104396   | Driver Pin                                                                   | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 20     | 104397   | O-Ring                                                                       | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 21     | 104342   | Driver                                                                       | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 22     | 104402   | O-Ring                                                                       | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 23     | 104393   | Lower Piston                                                                 | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 24     | 104367   | Plug- Piston                                                                 | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 25     | 104395   | Grip                                                                         | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 26     | 104398   | Bridge                                                                       | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 27     | 104368   | Bumper-Drive                                                                 | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 28     | 104346   | Bumper Plate                                                                 | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 29     | 104373   | Nose Assembly                                                                | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 30     | 100933   | Screw M5 x 25                                                                | 5    |                                                                                                                               |          |                       |      |      |          |             |      |
| 31     | 104339   | Handle-Trigger Guard                                                         | 1    |                                                                                                                               |          |                       |      |      |          |             |      |
| 32     | 104343   | Trigger-AR (LONG)                                                            | 1    |                                                                                                                               |          |                       |      |      |          |             |      |