

# Safety glasses should be worn at all times while operating tool.

## General Information

The Marson ValueRivet™ V-2 pneumatic/ hydraulic riveting tool is designed to set rivets in all materials in sizes from 3/32" to 3/16" diameter. Model V-2 is supplied with 3/16" NOSEPIECE (1) installed in the operating position. Standard nosepieces for 3/32" (4), 1/8" (3) and 5/32" (2) diameter rivets is included among the accessories supplied with the tool.

**The Maximum Air Pressure is 95 PSI At Tool.**

## Specifications

|                        |                |
|------------------------|----------------|
| Rivet Setting Capacity | 3/16" diameter |
| Traction power         | 1940 lbs       |
| Operating air pressure | 85-95 PSI      |
| Air consumption        | 4 CFM          |
| Air Inlet              | 1/4" N.P.T.    |
| Overall height         | 11.5"          |
| Net weight             | 3.0 lbs.       |

## Accessories

The V-2 is packaged in a compartment storage container. Wrenches needed to service the tool are included. Special SPANNER GAUGE (40) has a cut-out gauge used in adjusting the tool as described below.

Also included: Safety Cap (25) to catch ejected mandrels when attached to the back of the tool.

## Maintenance

In order to achieve maximum efficiency and economy, the Marson V-2 pneumatic/hydraulic riveting tool should be serviced and maintained on a regular basis. No special skills or tools other than the ones provided are needed to properly service and maintain the device.

The operative parts of the tools requiring regular inspection and maintenance are as follows:

1. The JAWS (8) should be periodically inspected, cleaned, and when necessary, replaced with new jaws (see Cleaning and Changing Jaws under Procedures below).
2. The FRAME (17) of the tool should be checked periodically to ensure that the oil level is maintained and that there are no leaks or breakdowns in the seals. (See Repair sections under Malfunction for procedures).

## Maintenance Procedures

1. Cleaning and Changing Jaws

**IMPORTANT – Disconnect the V-2 from the air pressure line before proceeding with inspection or repairs.** Use SPANNER (41) to remove FRAME HEAD (13). Use SPANNER GAUGE (40) to remove JAW CASE FRONT (6) while at the same time holding the JAW CASE REAR (7) with the SPANNER (41) open-end wrench. Clean jaws with solvent or a steel brush. Replace with new jaws if excess wear is apparent. Always coat outer or smooth surface of jaws with an oil film before assembling.

Reassemble by reversing order of above procedure. It is important that JAW PUSHER (3) engages the conical parts of the JAWS. **DO NOT CHANGE THE POSITION OF PARTS (7) and (14).** If these parts are inadvertently changed, see readjustment instructions under "Malfunction."

2. Changing Nosepiece

Connect V-2 to air pressure and press TRIGGER (45) until nosepiece has been removed and new nosepiece fully tightened. When TRIGGER (45) has been released and tool is at rest there should be a circular opening visible in the nosepiece.

## Malfunction

1. Mandrel gripped by JAWS (6) but rivet does not set and mandrel does not break:

**CAUSE:** Low air pressure or loss of oil.

**REPAIR:** Increase air pressure but do not exceed 100 PSI at tool. Make sure all fittings including FRAME CAP (23) and FRAME HEAD (13) are tight. If malfunction persists, add oil as follows:

Disassemble AIR CYLINDER (31), FRAME (17) and FRAME HEAD (13). Before adding oil, check to be sure OIL PISTON (18) is at the bottom of its stroke, by hand pulling JAW CASE FRONT (6) away from FRAME (17). OIL PISTON (18) should bottom its stroke automatically when removing FRAME HEAD (13). If JAW CASE FRONT (6) moves downward by hand power, then RETURN SPRING (21) must be replaced. Care must be exercised to avoid damage to O-RINGS (15, 16). Pour MARSON OIL No. 39105 or equivalent into FRAME (17) while tool is upside down. Before assembling also check for oil appearing in AIR CYLINDER (31) or FRAME HEAD (13). If oil is found in any of these areas, replace O-RING (15, 16, 27, 28) as needed. Reassemble tool.

2. Mandrel does not enter nosepiece OR fails to eject.

**CAUSE:** JAW CASE REAR (7) and NUT (14) have changed position.

**REPAIR:** Adjust so that the distance between the plane underside of the FRAME (17) and the front edge of the securely-assembled JAW CASE FRONT (6) is approximately 2 -13/16". This can be measured with the cut-out gauge on SPANNER GAUGE (40) before assembling FRAME HEAD (13).

3. Tool takes more than one stroke under ideal conditions to set rivet and break mandrel.

**CAUSE:** Insufficient oil.

**REPAIR:** See repair instructions under Malfunction, 1.

**CAUSE:** Not enough air pressure.

**REPAIR:** Increase air pressure but do not exceed 95 PSI at tool.

**CAUSE:** Loose nosepiece.

**REPAIR:** Tighten nosepiece with SPANNER (41).

**CAUSE:** JAW CASE REAR (7) too far forward.



**Rivets, inserts & setting tools**

**REPAIR:** See procedure under Section 2 above.

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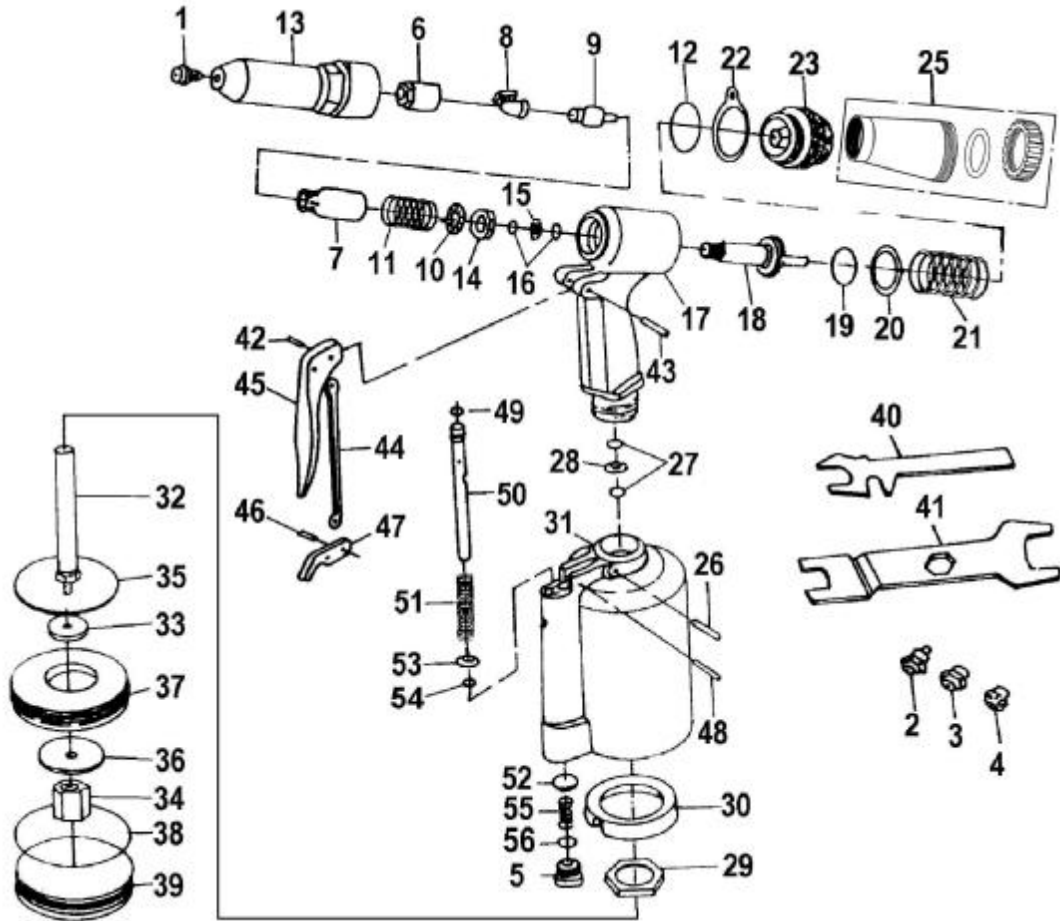


Rivets, inserts & setting tools



Instructions and parts List - #79014

# V-2 AIR / HYDRAULIC RIVETER TOOL



| Ref. No. | Part No. | Description              | Q'ty /Tool | Ref. No. | Part No. | Description   | Q'ty /Tool |
|----------|----------|--------------------------|------------|----------|----------|---|------------|
| 1        | 95760    | Nosepiece(3/16") (4.8mm) | 1          | 32       | 95813    | Air Piston Stem   | 1          |
| 2        | 95763    | Nosepiece(5/32") (4.5mm) | 1          | 33       | 95924    | Air Piston AI   | 1          |
| 3        | 95762    | Nosepiece(1/8") (3.2mm)  | 1          | 34       | 95925    | Air Piston Lock Nut   | 1          |
| 4        | 95761    | Nosepiece(3/32") (2.4mm) | 1          | 35       | 95926    | Air Piston Disc Top   | 1          |
| 5        | 95910    | Valve Cap                | 1          | 36       | 95927    | Air Piston Disc Bottom  | 1          |
| 6        | 95765    | Jaw Case Front           | 1          | 37       | 95928    | Air Piston Ring   | 1          |
| 7        | 95771    | Jaw Case Rear            | 1          | 38       | 95815    | Cylinder O-Ring 67.94x2.62  | 1          |
| 8        | 95766    | Jaw                      | 1set       | 39       | 95929    | Cylinder Cap  | 1          |
| 9        | 95767    | Jaw Pusher               | 1          | 40       | 95818    | Spanner Gague   | 1          |
| 10       | 95772    | Case Washer Ring         | 1          | 41       | 95817    | Spanner   | 1          |
| 11       | 95768    | Jaw Pusher Spring        | 1          | 42       | 95930    | Trigger Pin   | 1          |
| 12       | 95780    | Frame Cap O-Ring 27x2    | 1          | 43       | 95931    | Connector   | 1          |
| 13       | 95764    | Frame Head               | 1          | 44       | 95932    | Trigger Rod   | 1          |
| 14       | 95773    | Case Lock Nut            | 1          | 45       | 95933    | Trigger   | 1          |
| 15       | 95775    | Back Up Ring             | 1          | 46       | 95934    | Connector   | 1          |
| 16       | 95774    | O-Ring 11.8x2.4          | 2          | 47       | 95935    | Trigger Lever   | 1          |
| 17       | 95911    | Frame                    | 1          | 48       | 95936    | Lever Pin   | 1          |
| 18       | 95912    | Oil Piston               | 1          | 49       | 95799    | Valve Pusher O-Ring P7  | 1          |
| 19       | 95778    | O-Ring 21.7x3.5          | 1          | 50       | 95937    | Valve Pusher  | 1          |
| 20       | 95913    | Back Up Ring             | 1          | 51       | 95938    | Valve Spring  | 1          |
| 21       | 95914    | Return Spring            | 1          | 52       | 95939    | Valve   | 1          |
| 22       | 95916    | Hanging Clip             | 1          | 53       | 95940    | Valve Collar  | 1          |
| 23       | 95917    | Frame Cap                | 1          | 54       | 95941    | Collar O-Ring P5  | 1          |
| 25       | 95755    | Safety Cap               | 1          | 55       | 95942    | Valve Spring  | 1          |
| 26       | 95920    | Setting Screw Pin        | 1          | 56       | 95943    | Valve Cap O-Ring 10.8x2.4   | 1          |
| 27       | 95848    | O-Ring 11.8x2.4          | 2          |          |          |   |            |
| 28       | 95921    | Back Up Ring             | 1          |          |          |   |            |
| 29       | 95796    | Frame Lock Nut           | 1          | RK       | 95944    | Repair Kit Ref.No. --<br>6, 7, 8, 9, 10, 11, 18, 21, 37                             |            |
| 30       | 95922    | Rubber Cushion           | 1          |          |          |   |            |
| 31       | 95923    | Air Cylinder             | 1          | SK       | 95945    | Service Kit Ref.No.-- 15, 16(x2), 19,<br>20, 25, 26, 38, 49, 51, 52, 53, 54, 55, 56 |            |