

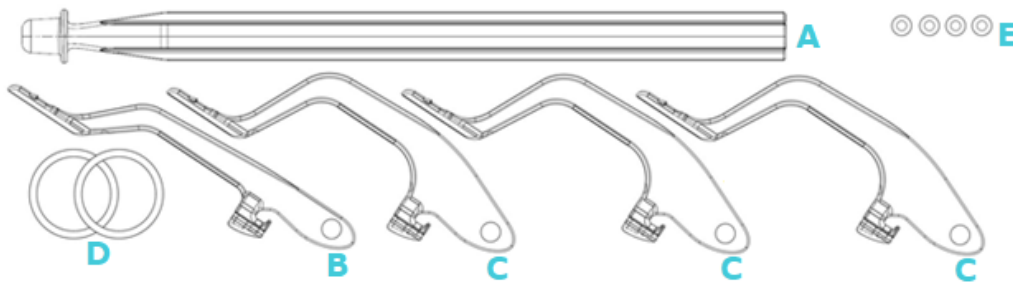
# F4 Inserter

## 1503-820 - Maintenance Kit Installation

To ensure the F4 Inserter maintains optimal performance and reliability, it is recommended the following Maintenance Kit components are replaced when showing any signs of wear. If the arms or actuating rod movement is no longer smooth this is a sign that these parts are worn and need replacing.

The maintenance kit comprises of:

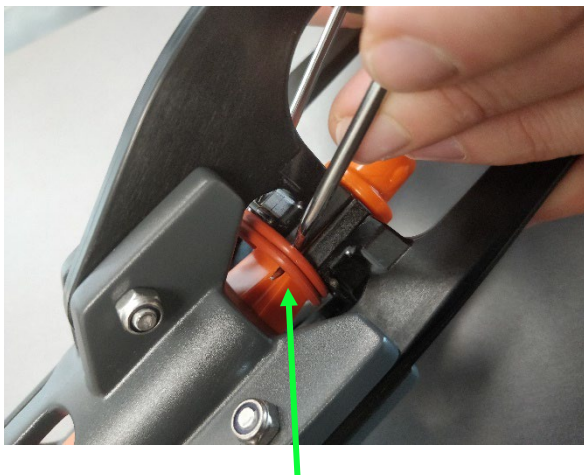
Item	Description	Part No	Qty
A	F4 Inserter – Actuating Rod	1503-011E	1
B	F4 Inserter – Lower Arm (Including new wear pad)	1510-011	1
C	F4 Inserter – Upper Arm (Including new wear pad)	1510-012	3
D	O-Ring 1" x 3/32	1503-015	6
E	F4 Inserter – Arm Spacer	1503-003	4



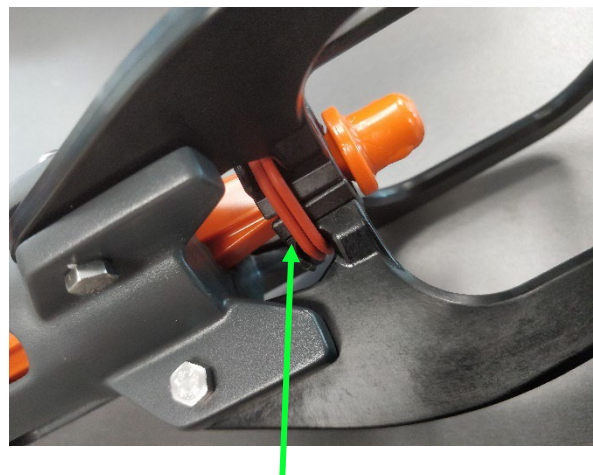
### O-Ring installation

Remove the worn O Rings from the hooks on the Lower and Upper arms. Use an O Ring removal tool or a screwdriver to pry them off.

Replace with 2 x new O Rings (**Item D**).



*Pry off old worn O Rings*



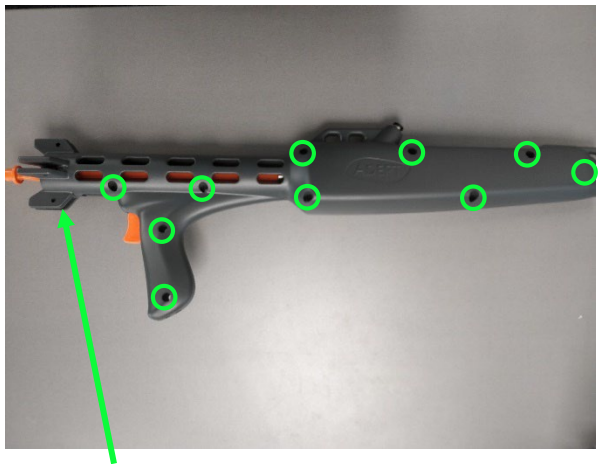
*New O Rings installed on Arms*

## Actuating Rod Replacement

Use an 8mm spanner and 8mm socket to undo the hex head bolts holding on the upper and lower arms and remove them.

Use an Allen Key to remove the 10 x Cap screws from the F4 handle housing.

Separate the two handle parts allowing access internally.



*Remove 3 x upper and 1 x lower arms and 10 x body cap screws. Separate left and right handle parts to gain access to internal components.*

Remove the Pneumatic Cylinder and attached worn Actuating Rod.

Use 17mm and 10mm spanners to unscrew the worn Actuating Rod from the end of the cylinder ram after the back nut is loosened.

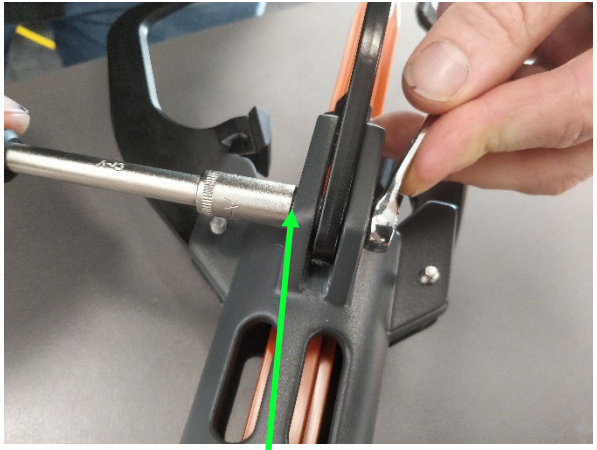
Install the new Actuating rod (**Item A**) and reassemble the F4, reversing steps above.



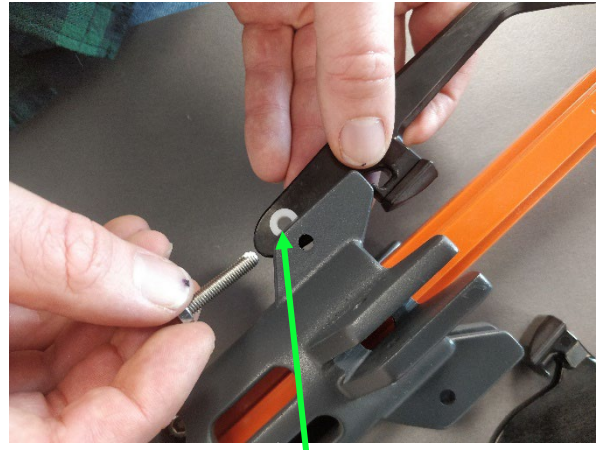
## Lower and Upper Arm replacement

Use two 8mm Spanners to undo the nut and bolt holding the worn 3 x Upper Arm and 1 x Lower Arm Assemblies from the F4 Housing.  
Install replacement arms (**3 x Item c**, **1 x Item B**) and the included replacement 4 x Arm Spacers (**Item E**).

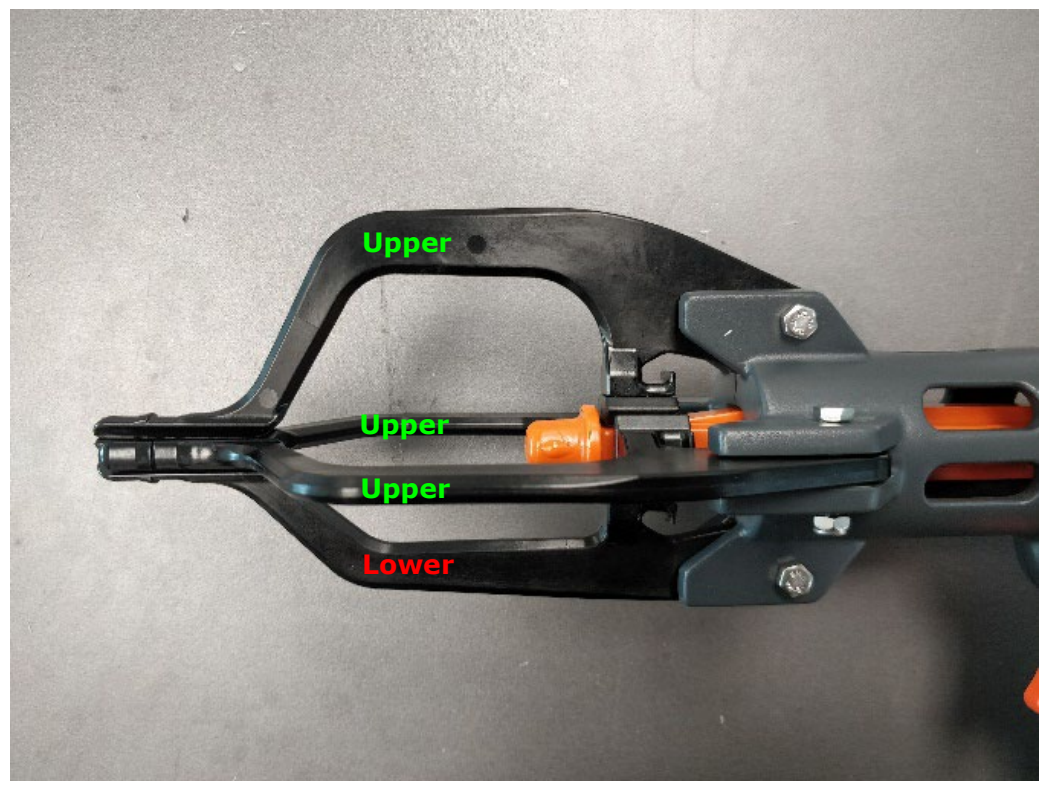
**Please Note:** Do not overtighten hex bolts screws to avoid jamming the arms.



*Undo hex bolt and nut to remove arms*



*Ensure replacement Arm Spacer is in place*



**Upper** Arms are installed in top and side locations    **Lower** Arm is installed in bottom position

**Important Note:** Ensure the Lower Arm (**Item B**) is installed on the bottom inserter mounting point. The Lower Arm is **smaller** than the 3 x Upper Arms and must be installed in the bottom position for correct F4 operation.