

Product Information

How to replace the o-rings on Thermo Fisher Scientific® piston assembly MAS200R

When the o-rings for the shaft of the MAS Plus autosampler are worn out, they can be very tricky to replace.

Elemental Microanalysis supplies F2225, a tool that will help you perform this time-consuming task quickly without damaging the piston assembly.

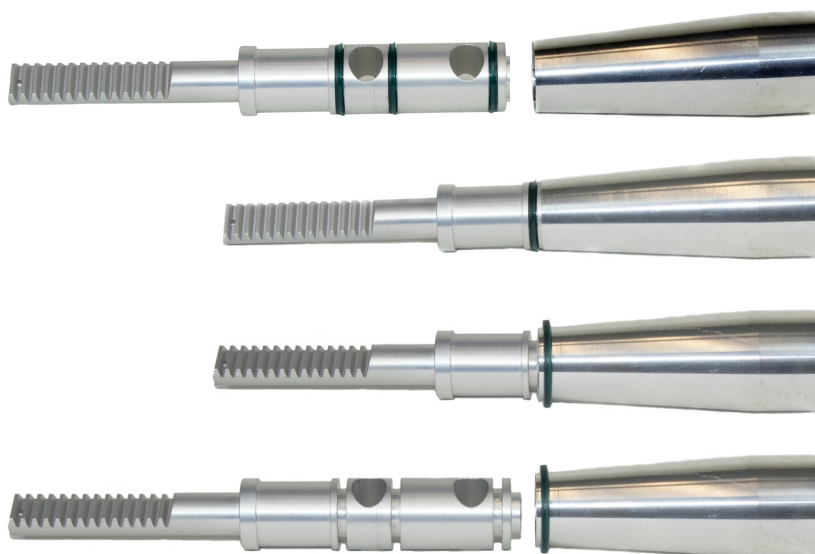
Thermo Fisher Scientific® part no.	Description	Elemental compatible part no.
343 01512	Piston assembly MAS200R	F2224
	Tool for replacing o-rings for MAS200R	F2225
290 30343	Green o-rings for shaft of MAS Plus autosampler (Set of three)	E6059

You will need:



Remove the worn o-rings

1. Insert the end of the piston assembly shaft into the narrower end of the metal o-ring placement tool.
2. Move the worn o-ring onto metal o-ring placement tool
3. Remove the piston assembly shaft
4. Discard worn o-ring from metal o-ring placement tool
5. Repeat steps 1-4 for remaining worn o-rings



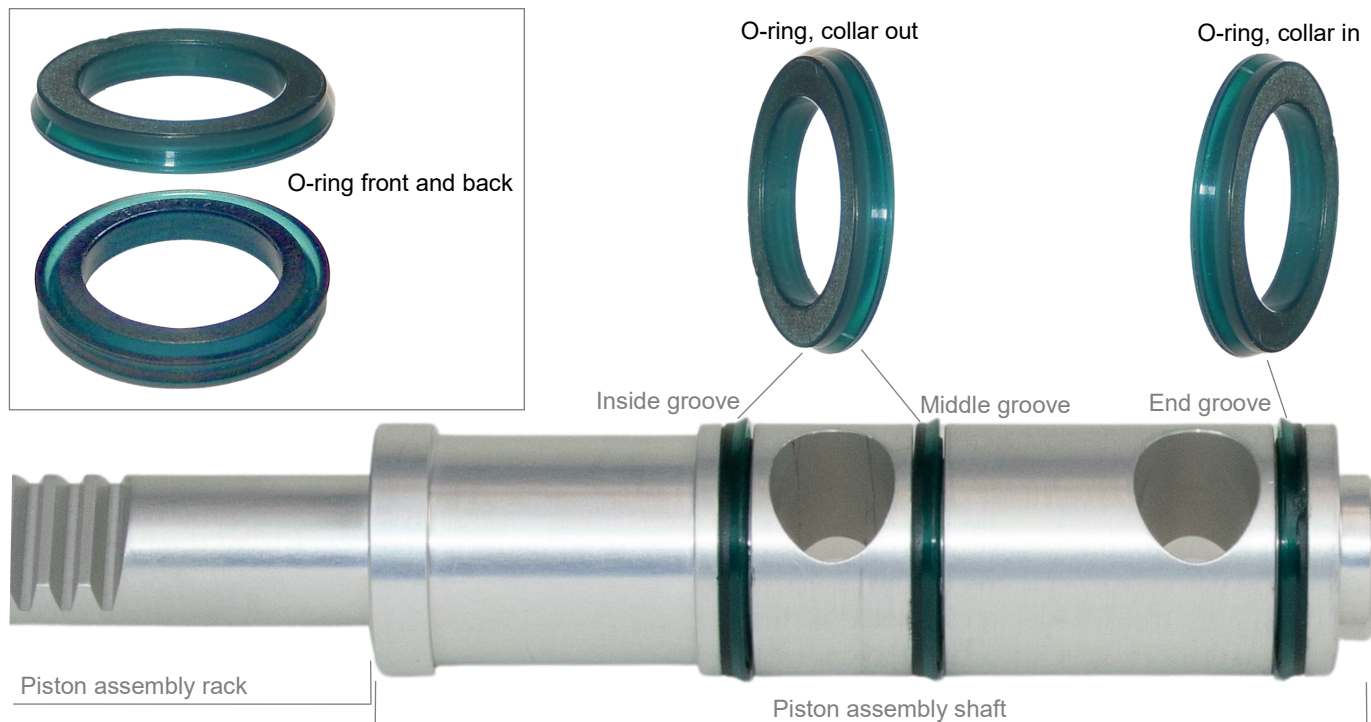
Once the o-ring is on the placement tool, it slides off smoothly and does not catch in the other piston grooves. This enables quick removal of the worn o-rings, without risking damage to the piston assembly shaft.

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How to replace the o-rings cont'd

O-ring direction

The compatible o-rings for the Thermo Fisher Scientific® piston assembly MAS200R (343 01512) are three identical seals; the o-ring front and back differ, giving the appearance of a collar. The o-rings must face in the correct directions to form the appropriate seals and prevent leakage of gas.



Piston assembly MAS200R. F2224.

Replacing the o-rings

1. Place a new o-ring with the collar facing out on the middle tier of the black plastic o-ring replacement tool (F2225).

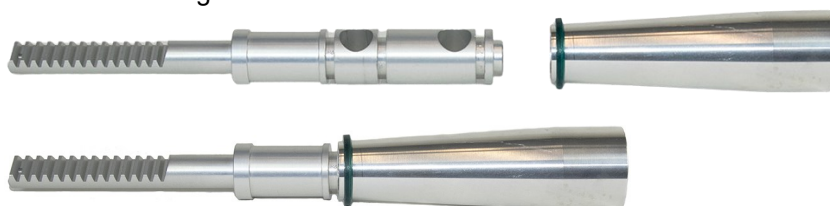
The direction of the o-ring on this tool determines its final placement on the piston assembly shaft.



2. Transfer o-ring to the narrow end of the metal o-ring placement tool (F2225).



3. Place the narrow end with o-ring on over the piston assembly shaft. Aligning narrow end with inside groove.



O-ring, collar out (image magnified)

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How to replace the o-rings cont'd

Replacing the o-rings cont'd

- Transfer o-ring to sit in the inside groove of the piston assembly.



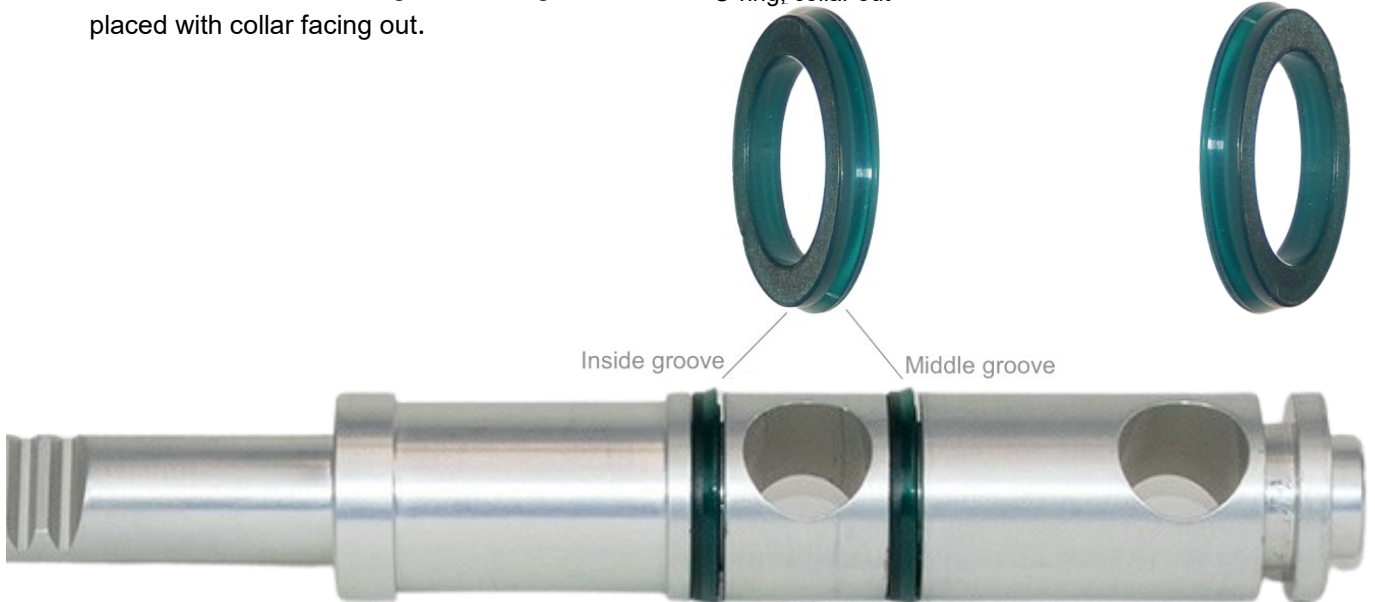
- Repeat process to place o-ring in middle groove of piston assembly.



- Check inside and middle groove o-rings are both placed with collar facing out.

O-ring, collar out

O-ring, collar in



- The o-ring for the end groove must face the opposite direction. Place a new o-ring with the collar facing in on the middle tier of the black plastic o-ring replacement tool (F2225).



- Transfer o-ring to the narrow end of the metal o-ring placement tool.



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How to replace the o-rings cont'd

Replacing the o-rings cont'd

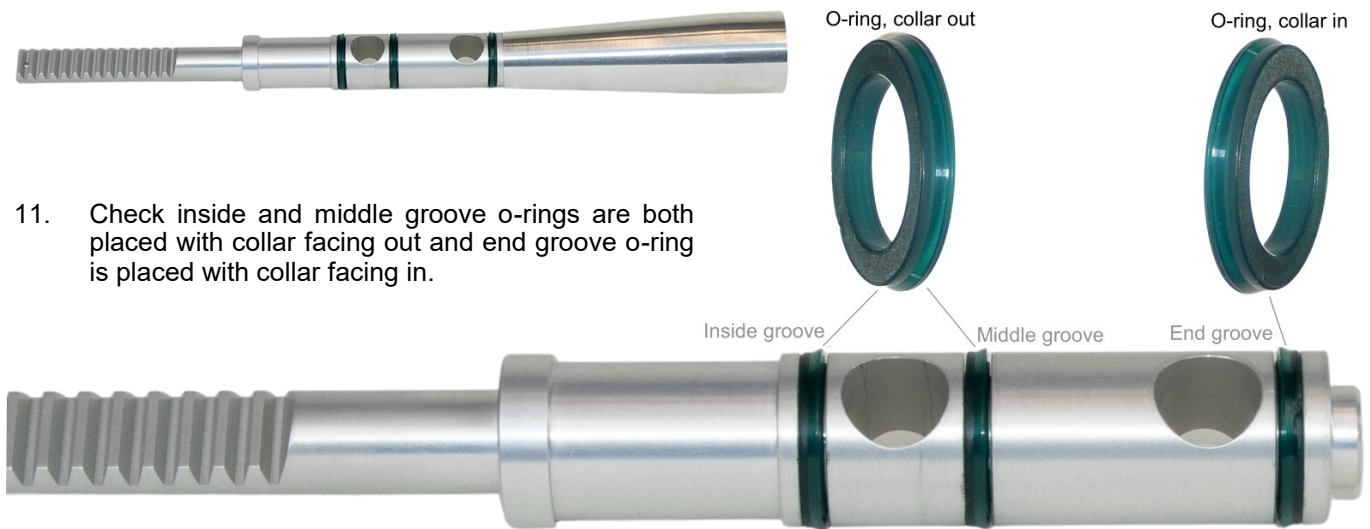
- Place the narrow end of the metal o-ring placement tool with o-ring on over the piston assembly shaft. Aligning narrow end with end groove.



- Transfer o-ring to sit in the end groove of the piston assembly.



- Check inside and middle groove o-rings are both placed with collar facing out and end groove o-ring is placed with collar facing in.



- Thermo Fisher Scientific® piston assembly MAS200R 343 01512 is ready to reintroduce to the autosampler.



F2225 o-ring replacement tool, E6059 set of three green o-rings (compatible with OEM part number 290 30343) and F2224 piston assembly (compatible with OEM part number 343 01512) are available from Elemental Microanalysis. These products offer the same high quality and value for money that is typical of Elemental Microanalysis' entire product range.

Available to order from our [ISO 9001](#) factory online, by email, telephone or fax. Elemental Microanalysis offers

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