

Broco Rankin  
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## Technical Service Bulletin

SUBJECT: REMEDIAL PROCEDURE TO ADDRESS FLASH ARRESTOR

DATE: October 9, 2019

BULLETIN NO.: TSB 2019-01

AFFECTED MODEL(S): **BR-22 PLUS** EXOTHERMIC CUTTING TORCH

AFFECTED SERIALS: **Shown Appendix A** (This does not affect the Original BR-22 model)

To all affected end users and distributors,

A recent report of a **BR-22 PLUS** collet nut not properly seating prompted an investigation to determine root cause. The result of that investigation concluded that the flash arrestor thread was preventing the arrestor from properly seating in the body of the torch. The root cause was traced to the machining of the flash arrestor nut which created an out-of-specification thread. This condition may cause early wear of the red collet washer between the collet and the arrestor. This situation does not interfere with the proper operation of the flash arrestor. It only causes the BR-22 PLUS collet to tighten before the O-ring is engaged. There may be additional **BR-22 PLUS** torches out in the marketplace that could exhibit this issue. We have conducted a hazard analysis and concluded that because the torch does not leak oxygen and the flash arrestor is still engaged, this does not pose a safety issue to the **BR-22 PLUS** operators. Because Broco-Rankin accepts nothing less than quality in the hands of our customers, we are providing this bulletin to notify the appropriate parties of the next steps.

What Broco-Rankin is doing:

- We are issuing this notice to inform customers of a potential thread issue for selected **BR-22 PLUS** torches manufactured between September 2018 and September 2019, serial numbers in Appendix A.
- We will provide replacement flash arrestors to replace the out-of-specification arrestors. If you have a repair kit that contains a **BR-22 PLUS** flash arrestor or individual flash arrestor purchased in the date range we will also provide a replacement flash arrestor.
- We have amended our quality processes to prevent future occurrences.

What is expected of the distributor:

- Distributors should determine if their inventory is in the affected serial number range. If any of their **BR-22 PLUS** is in the impacted range they should notify Broco Rankin of the quantity so replacement flash arrestors can be supplied to remove and replace the flash arrestors at their facility per instructions in the operator's manual.
- Distributors should pass this notice to all customers who purchased and may have purchased a **BR-22 PLUS** torch in the specified affected range.
- LOCATING THE SERIAL NUMBER
  - The serial number is etched on the backside of the torch head. Simply remove the 5 nylon screws and separate the halves of the torch.
  - For distributor stock with new **BR-22 PLUS** torches, the serial number can be found on a tag on the power cable.

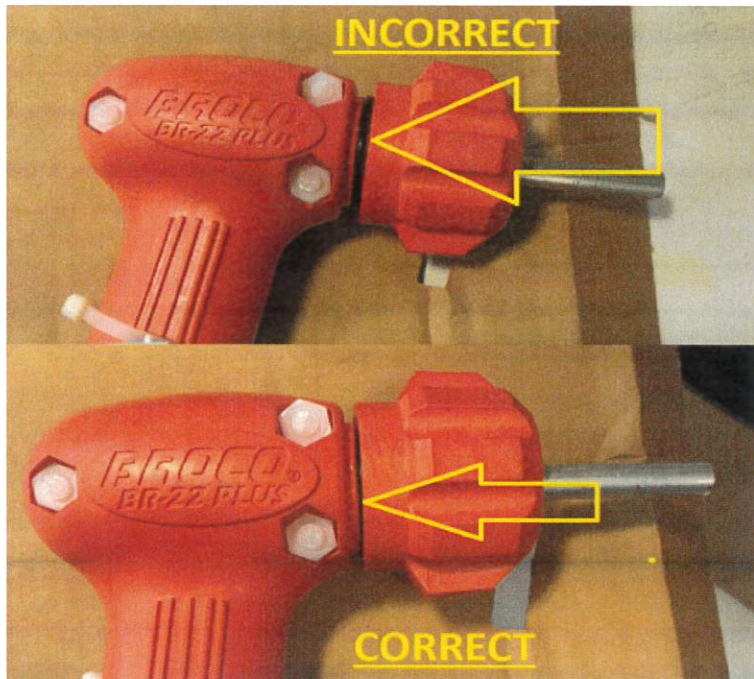
What is expected of the customer:

- Customers who are using **BR-22 PLUS** torches that are and may be within the affected specified serial number range should notify Broco Rankin of quantity so replacement flash arrestors can be supplied to remove and replace the flash arrestors at their facility per instructions in the operator's manual.
- For customers with new **BR-22 PLUS** torches, the serial number can be found on a tag on the power cable.

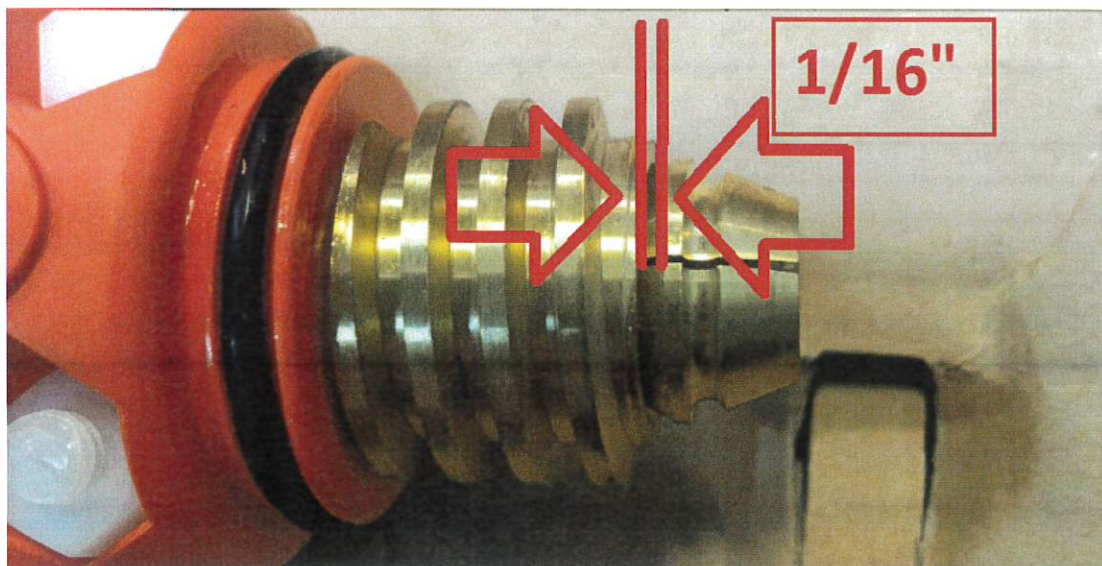
## FLASH ARRESTOR REPLACEMENT PROCEDURE

- The pictures below show the correct and incorrect collet nut tightened as it should be. Always use the aluminum test plug (or Broco cutting rod) provided with the torch when tightening to prevent deformation of the collet.

- Check for correct collet seating.

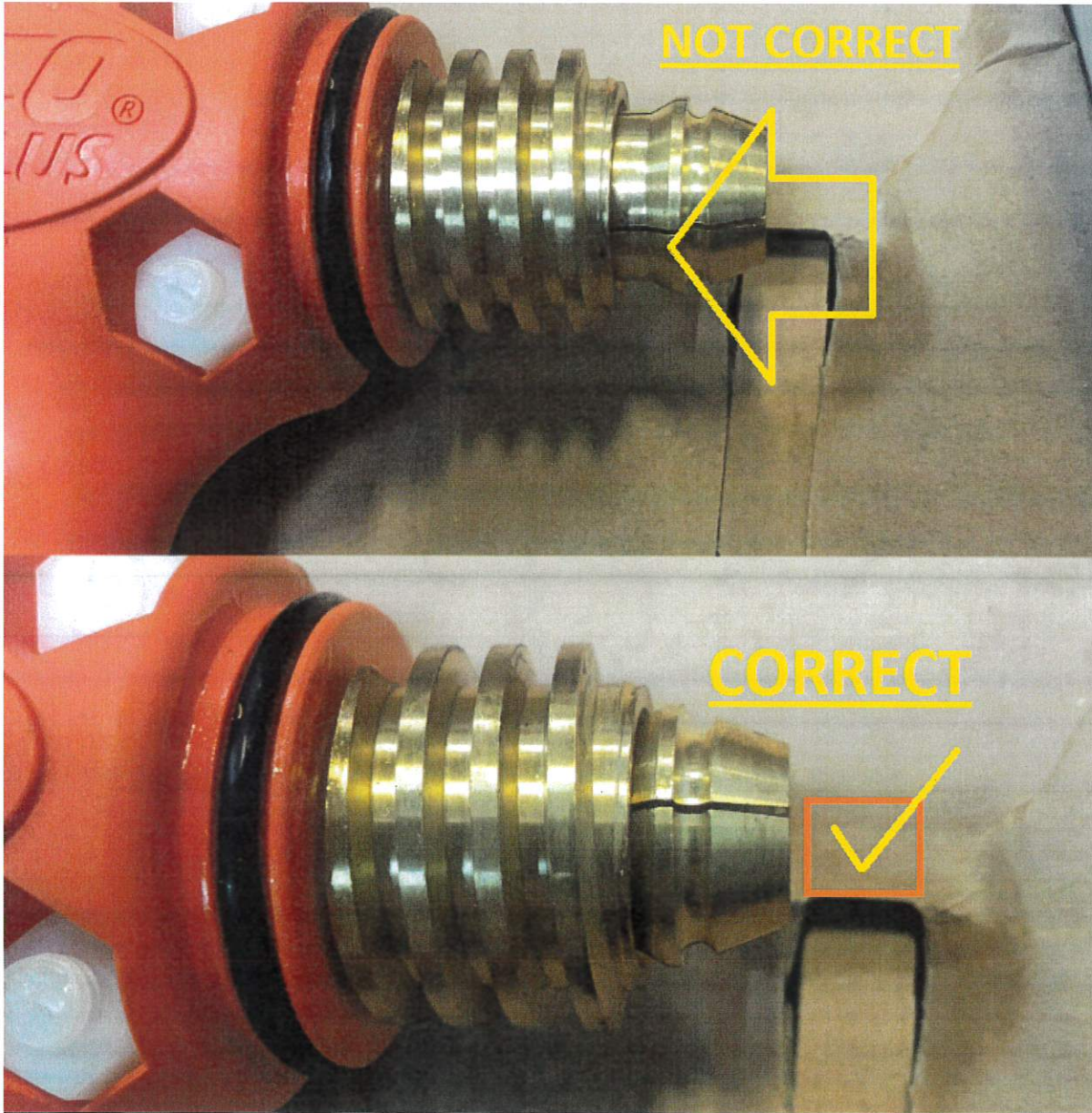


- The collet should be fully seated to the bottom of the collet flange, approximately 1/16 of an inch above the top of the torch head.



- If the collet is too high, remove the collet nut, the collet and the collet washer. Using the 5/32" hex key provided, remove the flash arrestor.





- Replace the flash arrestor with a new flash arrestor and tighten. Do not over tighten as this can strip the hex head.
- Replace the collet washer and the collet pressing down until fully seated as shown above.
- Screw the collet nut on, insert the aluminum plug and tighten to ensure proper closure of the collet nut to the black O-ring.
- Always pressure test the torch before each use and flush it with fresh water after each use.

**Appendix A: Affected Serial Numbers**

41426 - 41435	41822 - 41818	42243 - 42247	42713 - 42779
41766 - 41770	41916 - 41920	42353 - 42362	43105 - 43126
41771 - 41775	42036 - 42040	42368 - 42387	43132 - 43141
41776 - 41780	42041 - 42045	42389 - 42439	43144 - 43153
41781 - 41785	43079 - 43108	42443 - 42447	43557 - 43586
41812 - 41816	42109 - 42128	42680 - 42694	43738 - 43757

**Approved by:**

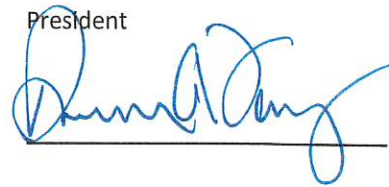
Quality



Engineering



President



Please call Broco Rankin at 909.483.3222 or 800.845.7259 if there are any questions regarding this Technical Service Bulletin.

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