

# The 9108 Kit can be used to repair 1" and 1-1/2" Turbojets and Marauders with Spinning Teeth



1715/1701



1720/1702



1715



1715P/1701P (not shown)



1720



1720P/1702P (not show



3715/3720 (not shown)



4613/4615



4612/4616

PHONE: 330.264.5678 or 800.228.1161 | FAX: 330.264.2944 or 800.531.7335 | [akronbrass.com](http://akronbrass.com) REVISED: 7/11

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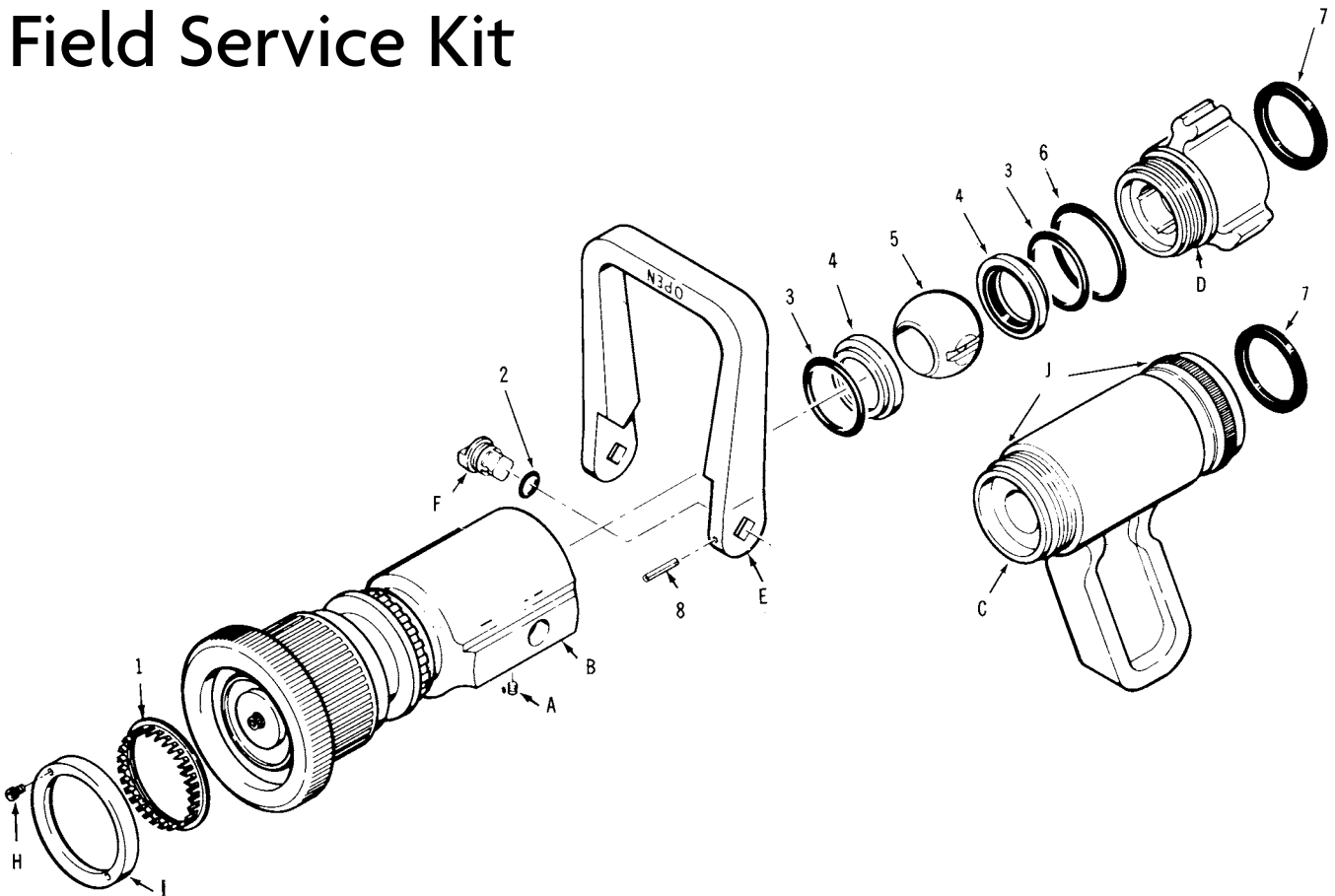
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## Style 9108 Field Service Kit for

- 1701P 1" Turbojet® (Mfg. after 10/92)
- 1702P 1" Turbojet® w/ Pistol Grip (mfg. after 10/92)
- 1715 1-1/2" Turbojet®
- 1715P 1-1/2" Turbojet (Pyrolite®)
- 1720 1 1/2" Turbojet w/ Pistol Grip
- 1720P 1-1/2" Turbojet w/ Pistol Grip (Pyrolite)
- 3715 1-1/2" Industrial Turbojet
- 3720 1-1/2" Industrial Turbojet w/ Pistol Grip
- 4612 1" Marauder®
- 4613 1" Marauder with Pistol Grip
- 4615 1-1/2" Marauder
- 4616 1-1/2" Marauder w/ Pistol Grip

## Style 9108 Field Service Kit



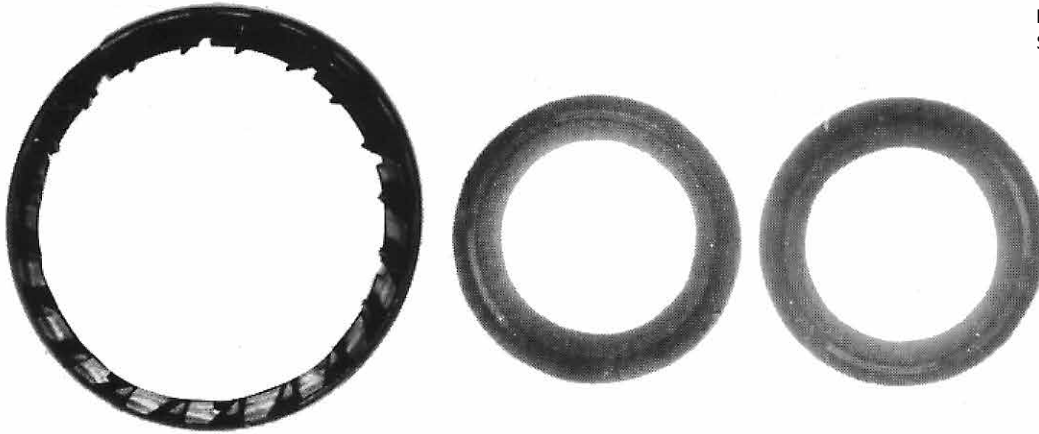
ITEM NO.	DESCRIPTION	PART NO.
1	Turbine Teeth7-72-027 (Turbojet & Marauder)	
1	Turbine Teeth7-72-136 (Current Turbojet)	
2	O-Ring (2)	7-57-282
3	O-Ring (2)	7-57-281
4	Seat (2)	7-69-245
5	Ball	7-04-006
6	O-Ring	7-57-375
7	Gasket 1-1/2"7-17-042	
7	Gasket 1"	7-17-047
8	Roll Pin (2)	7-44-080

Parts included in this kit are normally all that are required to repair leaks in the shutoff area. If additional nozzle components are required, contact Akron Brass for the appropriate technical service bulletin or return the nozzle to our factory: Akron Brass Co., Old Mansfield Rd., Wooster, Ohio 44691 or Akron Manufacturing Co., P.O. Box 280, Aylmer, Ontario N5H 2R9.

USE THESE ILLUSTRATIONS TO IDENTIFY THE VARIOUS PARTS IN THIS KIT

**Item No. 4**  
PN 7-69-245  
Seat (2)

**Item No. 1**  
PN 7-72-027 (Split)  
Or 7-72-136  
Turbine Teeth



**Item No. 5**  
PN 7-04-006  
Shutoff Ball

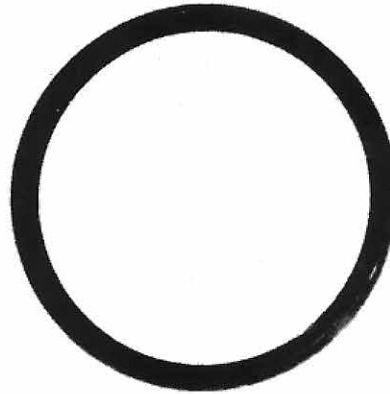
**Item No. 8**  
PN 7-44-080  
Roll Pin (2)



**Rivet**  
PN 7-54-003  
USE TO DRIVE OUT ROLL PINS IN HANDLE TRUNNIONS



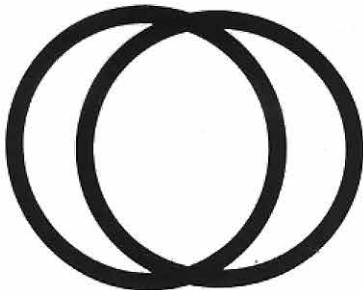
**Item No. 6**  
PN 7-57-375  
O-Ring  
Inlet Adapter



**Item No. 2**  
PN 7-57-282  
O-Rings (2)  
Handle Trunnions

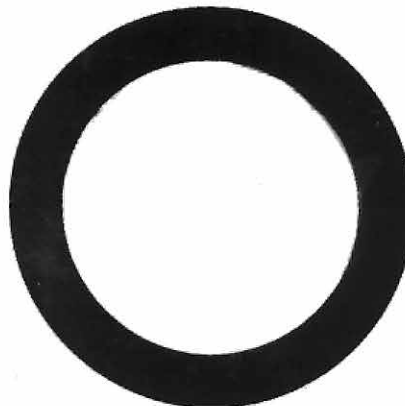


**Item No. 3**  
PN 7-57-281  
O-Rings (2)



**Item No. 7**  
PN 7-17-042  
1-1/2" Swivel Gasket

PN 7-17-047  
1" Swivel Gasket  
(not pictured)



# FIELD SERVICE KIT INSTRUCTIONS

## DISASSEMBLY

1. Remove the swivel gasket (7).
2. Remove the set screw (A) at the swivel end of the shut-off body (B). Depending on the age of the nozzle, it will require a  $\frac{1}{8}$ " Allen wrench (for a 1/4-20 screw) or a  $\frac{3}{32}$ " Allen wrench (for a 10-24 screw).
3. a) For Style 1720, unscrew the pistol grip (C) from the shutoff body.  
b) For Styles 1715, 1715P, 3715, 3720, 4615 and 4616, insert a tool  $\frac{13}{16}$ " square, (for Styles 4612, 4613, 1701P, 1702P, insert a tool  $\frac{7}{16}$ " square) into the grooves in the swivel adapter (D) and remove (counterclockwise).
4. Remove the O-Ring (6) from the inlet adapter (C OR D).
5. Remove the seat and O-Ring (4 and 3) from the inlet adapter (C or D).  
NOTE: Any plastic spacer ring(s) must remain in the inlet adapter recess under the seat and O-Ring for proper reassembly.
6. Turn the handle (E) into the open position and remove the ball (5).  
NOTE: If the nozzle was manufactured prior to 1968, the handle must be turned to the closed position to remove the ball. If this is the case, new trunnions and possibly a new handle will be required to install the new ball. Please contact the factory for complete information (330/264-5678).
7. Mark the end of the trunnions (F) and handle so they can be reassembled in exactly the same position. (Use chalk, grease pencil. etc.).
8. Take the rivet supplied in the service parts kit and drive out the roll pins (8) securing the handle to the trunnions.
9. Push the trunnions into the shutoff body until they are free. Remove the handle and trunnions.
10. Remove the O-Rings (2) from the trunnions.
11. Remove the front seat and O-Ring (4 and 3). Depending on the age of the nozzle the seat may not have an O-Ring. The new seats must be installed with an O-Ring.
12. Remove the two set screws (H) on the turbine retaining ring (I) with a  $\frac{3}{32}$ " Allen wrench.
13. Remove the turbine retaining ring.
14. Remove the turbine teeth (I).  
NOTE: The Style 1720 O-Rings on both ends of the pistol grip, between the adapters and pistol grip (J). These O-Rings do not normally need replaced. If you should need to replace these O-Rings you must order (2) 7-57-020.

## ASSEMBLY

- NOTE: All O-Rings must be lubricated with O-Ring grease before assembly.
1. Install the new O-Rings (3) on the new seats (4).
  2. Insert one new seat with O-Ring into the shutoff body B).
  3. Install the new O-Rings (2) on the trunnions (F).
  4. Place the handle (E) over the trunnions holes with the "closed" lettering facing the inlet.
  5. Install the trunnions from inside the shutoff body, using the marks (Disassembly Step 7) to position properly.
  6. Install the roll pins (8) to secure the handle to the trunnions.
  7. Turn the handle into the open position and insert the new ball (5).
  8. Install the other new seat with O-Ring into the recess of the inlet adapter (D), or pistol grip (C).  
NOTE: To be placed above the plastic spacer ring(s) if so equipped.
  9. Install the new O-Ring (6) in the shutoff body recess.
  10. With the handle in the closed position:
    - a) For Style 1720, thread the pistol grip into the shutoff body.
    - b) For Style 1715, 1715P, 1720P, 3715, and 3720 thread the swivel adapter into the shutoff body.  
NOTE: Continue tightening until resistance is felt when opening and closing the shutoff .
  11. Install the new swivel gasket (7).
  12. Install the new turbine teeth (I).
  13. Line up screw holes with the holes in the nozzle body and place the turbine retaining ring (I) back into position.
  14. Install and tighten the set screws (H) which secure the retaining ring.
  15. Test the nozzle with water to determine if the shutoff functions properly. If a small leak is present, tighten the inlet adapter slightly to eliminate the leak.
  16. Once the shutoff functions properly, observe the inlet adapter through the set screw hole in the shutoff body. If a full thread is visible, drill a slight recess for the set screw (A) (for a 10-24 set screw, use a #25 drill bit; for a  $\frac{1}{4}$ -20 use a  $\frac{3}{16}$  drill bit). Install and tighten the set screw.