



- NOTES:**
- △ GREASE ALL O-RING AND MATING SURFACES AT ASSEMBLY WITH PARKER O-LUBE
  - △ TURBINE TEETH TO BE CUT AT ASSEMBLY
  - △ USE PERMABOND HH120 OR LOCTITE 277 AT ASSEMBLY
  - △ USE PERMABOND LM113 OR LOCTITE 222 AT ASSEMBLY
  - △ GREASE WITH LOW-TEMP LUBRILATE AT ASSEMBLY
  - △ USED ON 500-2000 LPM UNIT ONLY
  - △ DIMPLE AT A ASSEMBLY
  - △ DO NOT SHAVE OR CUT BUMPER ID EDGE
  - △ ADVANCE SET SCREW IN THREADED HOLE UNTIL IT IS FLUSH WITH INDICATED SURFACE

ITEM NO.	DESCRIPTION	PART NUMBER	QUANTITY
1	Retaining Ring	117394	1
2	Pattern Sleeve Assy	17450017	1
3	Tube Discharge Optional Flow	117403	1
3	Tube Discharge Standard Flow	117499	1
4	Socket Head Cap Screw	767139	1
5	Baffle Head Optional Flow	117402	1
5	Baffle Head Standard Flow	117500	1
6	Baffle Stem	17396	1
7	O-Ring	757221	1
8	Turbine Teeth	772171	1
9	Socket Head Cap Screw	761096	3
10	O-Ring	757356	2
11	Pattern Control Ring	*	1
12	Cam Roller Long	758313	1
13	Nut Cam Detent	735045	1
14	O-Ring	757357	2
16	Nozzle Body	117397	1
17	Detent Handle	117398	1
18	Spring ST STL	768026	1
19	Brass Ball	703017	1
19	Brass Ball	703017	38
20	Allen Screw	765022	1
21	Swivel Adapter	117399	1
22	Gasket	717043	1
23**	Swivel 2.5" BSP - LPM	101422	1
23**	Swivel 2.5" NH - GPM	101420	1
24	Swivel Plug	742023	1
25	O-Ring	757065	1
26	ID Band	704634	1
28	Gallorage Control Band - 500-2000 LPM	704635	1
28	Gallorage Control Band - 250-750 GPM	703538	1
28	Gallorage Control Band - 950-2900 LPM	703543	1
29	Handle Cam	117400	1
30	Gallorage Ring	117401	1
31	Cam Roller	758312	1
32	Pattern Band - 500-2000 LPM	704636	1
32	Pattern Band - 250-750 GPM	703539	1
32	Pattern Band - 950-2900 LPM	703542	1
33	Key	727047	1
34	Shim	768218	1
34	Shim	768219	1
34	Shim	768220	2
35	Spacer - 500-2000 LPM	769305	1
38	Spring	769111	1
39	Ball ST STL	704018	1
41	O-Ring	757358	1
55	Set Screw	765108*	2

\*The pattern control ring must be purchased as part of pattern sleeve assembly.

\*\* Only standard swivel shown. For special swivel, contact customer service.

# STYLE 1745 TURBOMASTER NOZZLE

## OPERATING AND MAINTENANCE INSTRUCTIONS

The following is intended to provide the basic instructions for the operation and maintenance of the Turbomaster Nozzle. Read and understand these operating instructions before use.

### PRODUCT RATINGS

Maximum Pressure: 200 psi

Rated Pressure: 100 psi

### PRODUCT CAUTIONS

- ⚠ CAUTION:** For use with water or standard fire fighting foams only. Flush with fresh water after using with foam.
- ⚠ CAUTION:** Replace any tags or bands that are damaged or cannot easily be read.
- ⚠ CAUTION:** The nozzle is configured for optimum performance. Do not alter in any manner.
- ⚠ CAUTION:** Do not overtighten the nozzle onto an appliance connection.
- ⚠ CAUTION:** Ensure that the nozzle is properly matched to the eductor or proportioning system.

### PRODUCT WARNINGS

- ⚠ WARNING:** Charge the unit slowly. Rapid charging may cause a pressure surge which has the potential to cause an injury, or damage the nozzle and associated equipment.
- ⚠ WARNING:** Aim the unit in a safe direction before pumping water through it.
- ⚠ WARNING:** DO NOT exceed the maximum pressure rating of the nozzle. Exceeding this has the potential to cause an injury or damage the nozzle.
- ⚠ WARNING:** Ensure the thread on the nozzle swivel matches the thread on the monitor outlet. Mismatched threads may allow the nozzle to suddenly come off under pressure, possibly causing property damage and/or serious bodily injury.
- ⚠ WARNING:** This nozzle can produce large reaction forces. The device the nozzle is mounted on must be strong enough to withstand these reaction forces. Do not mount the nozzle in a portable hose holder.

### MAINTENANCE INSTRUCTIONS

Your Turbomaster nozzle should be inspected prior to and after each use; to ensure it is in good operating condition. Periodically, an unanticipated incident may occur where the nozzle is misused in a manner that is inconsistent with standard operating practices and those listed in IFSTA. A partial list of potential misuses follows:

- Operating above maximum rated pressure and flow.
- Not draining and allowing water to freeze inside nozzle.
- Dropping nozzle from a height where damage is incurred.
- Prolonged exposures to temperatures above +130° F; or below -25° F
- Operating in a corrosive environment
- Other misuse that might be unique to your specific fire fighting environment.

Also; there are many “tell tale” signs that indicate nozzle repair is in order; such as:

- Controls that are either inoperable or difficult to operate.
- Excessive wear.
- Poor discharge performance.
- Water leaks.

If any of the above situations are encountered; the nozzle should be taken out of service and repaired; plus tested by qualified nozzle technicians; prior to placing it back into service. The four flow settings are based on 100 psi inlet pressure. Maximum operating pressure of 200 psi. Check the turbine teeth to be sure they turn freely before operating. The turbine teeth are easily removed for cleaning or replacement. Simply remove the three screws (9); remove the turbine retaining ring (1); and remove the turbine teeth (8). To clean; simply wipe off any dirt and grease from the turbine teeth and the contact surfaces on the turbine retaining ring and pattern sleeve (2). If other parts of the nozzle are disassembled; be sure that any O-Rings are lubricated with Low-Temp Lubriplate® or equivalent before reassembly.



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

REVISED: 10/12

WARRANTY AND DISCLAIMER: We warrant Akron Brass products for a period of five (5) years after purchase against defects in materials or workmanship. Akron Brass will repair or replace product which fails to satisfy this warranty. Repair or replacement shall be at the discretion of Akron Brass. Products must be promptly returned to Akron Brass for warranty service.

We will not be responsible for: wear and tear; any improper installation, use, maintenance or storage; negligence of the owner or user; repair or modification after delivery; damage; failure to follow our instructions or recommendations; or anything else beyond our control. WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, OTHER THAN THOSE INCLUDED IN THIS WARRANTY STATEMENT, AND WE DISCLAIM ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. Further, we will not be responsible for any consequential, incidental or indirect damages (including, but not limited to, any loss of profits) from any cause whatsoever. No person has authority to change this warranty.

© Premier Farnell Corporation. 2012 All rights reserved. No portion of this can be reproduced without the express written consent of Premier Farnell Corporation.

**A Premier Farnell Company**