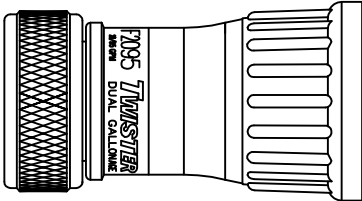


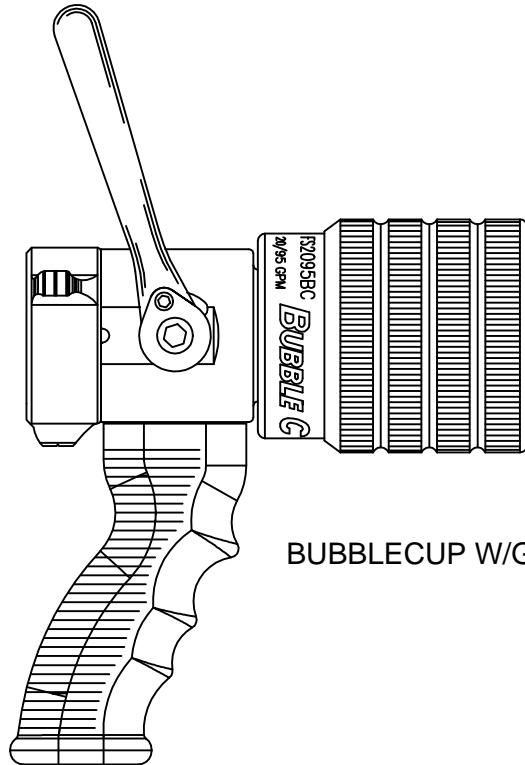


1.5" TWISTER AND[®] BUBBLECUP SERIES[®]

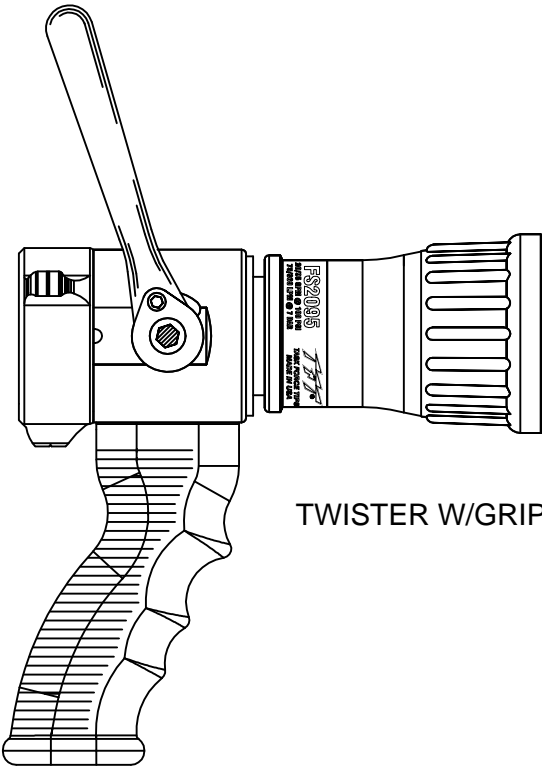
-SERVICE PROCEDURE-



TIP ONLY



BUBBLECUP W/GRIP



TWISTER W/GRIP



TASK FORCE TIPS

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TASK FORCE TIPS, INC.

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1.5" SERIES
Twister[®] and BubbleCup[®]
-Service Procedure-

INTRODUCTION

The nozzle you have purchased is your primary tool in the battle against fire. It has been manufactured with great care to give you the finest performance possible. All components are of top quality and extremely rugged. With occasional inspection and attention, it will serve you for many years. This publication is intended for those who prefer to perform service on their own equipment. Factory service is available, and repair time seldom exceeds one day in our facility. Factory serviced nozzles are repaired by experienced professionals, fully tested and promptly returned functioning to original specifications. Repair charges for non-warranty items are minimal. Task Force Tips assumes no liability for damage to equipment or injury to personnel that is a result of user service.

GENERAL INFORMATION

THREADED JOINTS have been secured using Loctite brand thread locking adhesive #271. Disassembly requires a minimal application of heat with a propane or oxyacetylene torch to break the bond. The threads should be heated to approximately 450 degrees F. Excessive heat application will cause damage to adjacent seals and labels. Replacement parts must be reinstalled using Loctite #271 or equivalent. Small vials of Loctite for field service are available; order part # V5010, LOCTITE MINI DISPENSER.

LUBRICANTS: If parts are disassembled in an area where o-rings are present, re-assemble using DOW #44 High Temperature Silicone Grease on all o-rings and surfaces that the o-rings contact.

LABEL REPLACEMENT: If labels become damaged, remove old labels with a razor knife. Remove adhesive with acetone or methyl ethyl ketone. Surface must be clean, dry and free from grease. Carefully apply new label.

ORDERING PARTS: Always specify the serial number of the nozzle when ordering parts. The number is found on the base of the HEAD [5, 7, 8, 15]. Be sure to use complete DESCRIPTION and ORDER # as printed on parts list. All requests for couplings must specify thread size. Pricing information will be given at time of order.

OPERATING INSTRUCTIONS: See LKB-100 for instructions on Safe Operation and Maintenance

COUPLING AND PISTOL GRIP SERVICE PROCEDURE:

Tools Required:

5/16" Allen (hex) Wrench
Loctite #271 Thread Locking Adhesive

GENERAL: Occasional replacement of the COUPLING GASKET [37] and REAR SEAT [36] is recommended.

COUPLING REMOVAL: Remove PORT PLUG [29] from side of BODY [23]. Turn coupling so that hole faces down, and rotate coupling back and forth to allow 3/16 STAINLESS STEEL BALLS [30] to drop out. When all balls are out of the groove, the coupling can be removed.

COUPLING INSTALLATION: Put the coupling onto the mating part and load 26 STAINLESS STEEL BALLS [30] into the ball groove through the port in the valve. Insertion of the balls is easier if the coupling is rotated slightly back and forth as the balls are loaded. Insert PORT PLUG [29] into port on side of BODY [23].

BOLT-ON PISTOL GRIP REMOVAL / INSTALLATION: The PISTOL GRIP [26] is held on by a SOCKET HEAD CAP SCREW [27]. Remove screw with a 5/16" Allen wrench. To reinstall, clean thread and apply Loctite #271. Tighten screw to 95 in-lbs.

VALVE and HANDLE SERVICE PROCEDURE

See Ball Valve Handle Repair Kit Instructions – (LKR-200)

FRONT END SERVICE PROCEDURE

Tools Required:

1/8" Allen (Hex) Wrench
3/16" Allen (Hex) Wrench
Razor Blade Knife
Dow #44 High Temperature Silicone Grease
Acetone or methyl ethyl ketone
Loctite #271 Thread Locking Adhesive
Loctite #241 Thread Locking Adhesive

FRONT END DISASSEMBLY SEQUENCE

Note: Instructions for the Twister model are different from the BubbleCup model

-Twister Model-

BUMPER and HEAD REMOVAL: Remove FLAT HEAD SCREW [1] using a 3/16" Allen wrench. Then remove BAFFLE [2] and SEAT [3]. This will allow the HEAD [5, 7] and BUMPER [4] subassembly to be unscrewed from the BODY [23] or BASE [38]. To remove the BUMPER [4]

from the HEAD [5, 7], use a razor blade knife and cut through one side of the BUMPER [4] from top to bottom. Remove and replace O-RING [16] after disassembly.

-BubbleCup Model-

CUP and HEAD REMOVAL: Remove LABEL [14] using a razor blade knife. Unscrew DETENT SCREWS [10] using a 1/8" Allen wrench. The SPRINGS [11] and TORLON BALLS [12] can now be removed from the CUP [13]. Remove FLAT HEAD SCREW [1] using a 3/16" Allen wrench. Then remove BAFFLE [2] and SEAT [3]. Slide the CUP [13] off the HEAD [8, 15] and remove the QUAD RING [9] from the HEAD [8, 15]. Unscrew the HEAD [8, 15] from the BODY [23] or BASE [38]. Remove and replace O-RING [16] after disassembly.

FRONT END ASSEMBLY SEQUENCE

Note: Instructions for the Twister model are different from the BubbleCup model

-Twister Model-

BUMPER and HEAD REMOVAL: Apply grease to internal threads of HEAD [5, 7]. Screw HEAD [5, 7] onto BODY [23] or BASE [38]. Slide SEAT [3] onto boss, on back of BAFFLE [2]. Using Loctite #241 on FLAT HEAD SCREW [1], tighten BAFFLE [2] subassembly to end on BODY [23] or BASE [38]. Apply grease to the outside of HEAD [5, 7] and press BUMPER [4] onto HEAD [5, 7] making sure that nubs on the inside of the BUMPER [4] line up with the recesses in the HEAD [5, 7].

-BubbleCup Model-

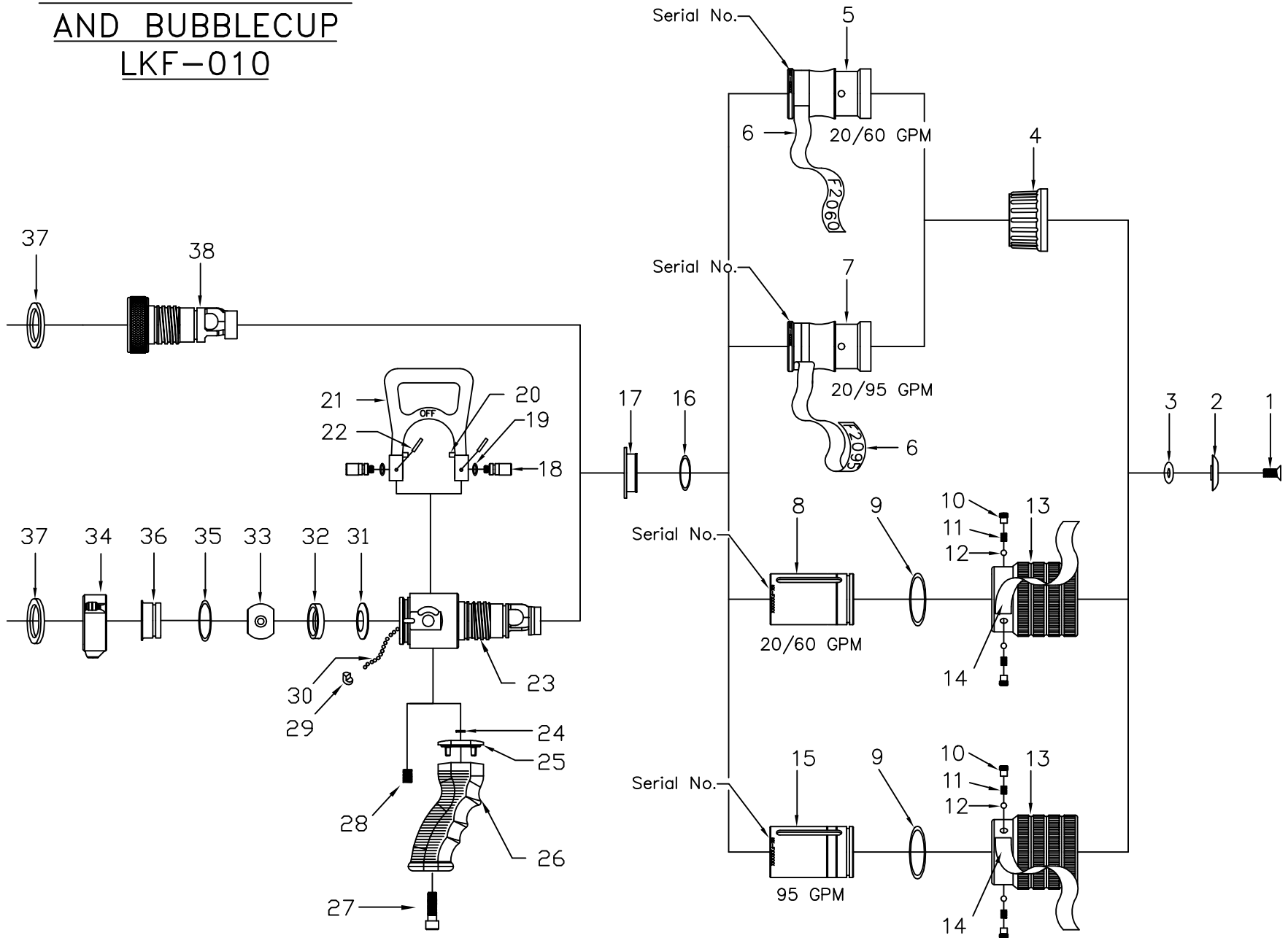
CUP and HEAD REMOVAL: Apply grease to internal threads of HEAD [8, 15]. Screw HEAD [8, 15] onto BODY [23] or BASE [38]. Place O-RING [9] around HEAD [8, 15] in o-ring groove. Apply grease to outside of HEAD [8, 15] then slide CUP [13] on HEAD [8, 15] making sure that holes in CUP [13] line up with slots in HEAD [8,15]. Drop a SPRING [11] and TORLON BALL [12] into each DETENT SCREW [10]. Start screwing the Detent subassemblies into the CUP [13]. Apply Loctite #271 to remaining thread and continue to tighten screw allowing the CUP [13] to move freely over the HEAD [8, 15]. Clean CUP [13] with acetone then apply LABEL [14] to CUP [13]. Using Loctite #241 attach SEAT [3] and BAFFLE [2] with FLAT HEAD SCREW [1].

PROBLEMS:

If you have any questions or problems, please feel free to call for assistance.

TASK FORCE TIPS INC.
2800 EAST EVANS AVENUE
VALPARAISO, INDIANA 46383
(800)-348-2686 (219)-462-6161

F SERIES TWISTER AND BUBBLECUP LKF-010



F-series Twister & Bubblecup ^â

<u>#</u>	<u>PART#</u>	<u>DESCRIPTION</u>	<u># USED</u>
1	VT31E18FH750	5/16-18 X 3/4 FLAT HEAD	1
2	F630	BAFFLE	1
3	F650	SEAT	1
4	DQ275	BUMPER	1
5	F625	HEAD	1
6	FL70	LABEL	1
	FL75	LABEL	1
7	F925	HEAD	1
8	F623	HEAD	1
9	VOQ-4225	QUAD RING	1
10	D290	DETENT SCREW	2
11	VM4195	SPRING	2
12	V2120-TORLON	3/16" TORLON BALL	2
13	F685	CUP W/TEETH	1
14	FL80	LABEL	1
	FL82	LABEL	1
15	F923	HEAD	1
16	VO-125	O-RING	1
17	F605	Z-STRIP	1
18	F10040	TRUNNION	2
19	VO-012	O-RING	2
20	F10050	STOP PIN	2
21	F10060	SHUT OFF HANDLE	1
22	V1900	SPIROL PIN	2
23	F10025	100 TWISTER BODY	1
24	VM4901	FLAT WASHER	1
25	HM693-F	GRIP SPACER	1
26	HM692-BLK	PISTOL GRIP	1
27	VT37-16SH1.0	3/8-16 X 1.00 SHCS	1
28	VT37-16SS312	SET SCREW	1
29	B770	PORT PLUG	1
30	V2120	3/16" SS BALLS	34
31	F10090	BELLEVILLE WASHER	1
32	F10070	FRONT SEAT	1
33	F10030	100 BALL	1
34*	F10097	COUPLING 1.5" ROCK.	1
	35 VO-126	O-RING	1
	36 F10080	REAR SEAT	1
	37 V3130	GASKET	1
38*	F610*	BASE	1

* -STATE DESIRED THREAD WHEN ORDERING.