

INSTRUCTIONS FOR SAFE OPERATION AND MAINTENANCE



Read Instruction Manual before use. Operation of this nozzle without understanding the manual and receiving proper training can be dangerous and is a misuse of this equipment. Call 800-348-2686 with any questions.

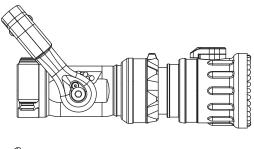
This Instruction Manual is intended to familiarize firefighters and maintenance personnel with

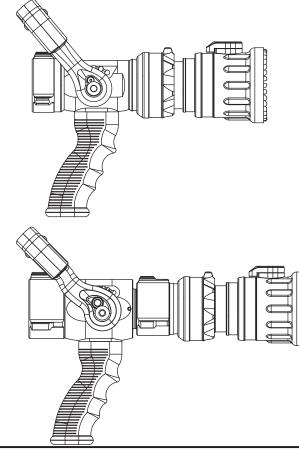
NOTICE

NOTICE

This manual should be kept available to all operating and maintenance personnel.

the operation, servicing, and safety procedures associated with the G-Force nozzle.





G-Force by: TASK FORCE TIPS 🗮

PERSONAL RESPONSIBILITY CODE

The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

- Firefighting and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.
- It is your responsibility to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called upon to use.
- It is your responsibility to know that you have been properly trained in Firefighting and /or Emergency Response and in the use, precautions, and care of any equipment you may be called upon to use.
- It is your responsibility to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.
- It is your responsibility to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.
- Failure to follow these guidelines may result in death, burns or other severe injury.



Fire and Emergency Manufacturers and Service Association P.O. Box 147, Lynnfield, MA 01940 • www.FEMSA.org

3701 Innovation Way, Valparaiso, IN 46383-9327 USA 800-348-2686 • 219-462-6161 • Fax 219-464-7155

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1.0 MEANING OF SAFETY SIGNAL WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI standard Z535.6-2006, the definitions of the four signal words are as follows:

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



NOTICE is used to address practices not related to personal injury.

2.0 SAFETY

The Task Force Tips G-Force nozzles are designed to provide excellent performance under most fire fighting conditions. Their rugged construction is compatible with the use of fresh water (see section 3.0 for saltwater use) as well as fire fighting foam solutions.



An inadequate supply of nozzle pressure and/or flow will cause an ineffective stream and can result in injury, death, or loss of property. See flow graphs in section 4.0 or call 800-348-2686 for assistance.



The nozzle may be damaged if frozen while containing significant amounts of water. Such damage may be difficult to detect visually and can lead to possible injury or death. Any time the nozzle is subject to possible damage due to freezing, it must be tested by qualified personnel before being considered safe for use.



This equipment is intended for use by trained personnel for firefighting. Their use for other purposes may involve hazards not addressed by this manual. Seek appropriate guidance and training to reduce risk of injury.



Nozzle reaction will vary as supply conditions change: such as opening or closing other nozzles, hose line kinks, changes in pump settings, etc. Changes in spray pattern or flushing will also affect nozzle reaction. The nozzle operator must always be prepared in the event of these changes. Failure to restrain nozzle reaction can cause firefighter injury from loss of footing and/ or stream protection.



If nozzle gets out of control or away from operator, retreat from nozzle immediately. Do not attempt to regain control of nozzle while flowing water. Injury from whipping can occur.



Water is a conductor of electricity. Application of water on high voltage equipment can cause injury or death by electrocution. The amount of current that may be carried back to the nozzle will depend on the following factors:

- Voltage of the line or equipment
- Distance from the nozzle to the line or equipment
- Size of the stream
- Whether the stream is solid or broken
- Purity of the water,

1 The Fire Fighter and Electrical Equipment, The University of Michigan Extension Service, Fourth Printing 1983. Page 47

Improper use of foam can result in injury or damage to the environment. Follow foam manufacturer's instructions and fire service training to avoid:

- Using wrong type of foam on a fire. i.e. Class A foam on a Class B fire.
- Plunging foam into pools of burning liquid fires.
- Causing environmental damage.
- Directing stream at personnel.



AWARNING

There is a wide variety of foam concentrates. Each user is responsible for verifying that any foam concentrate chosen to be used with this unit has been tested to assure that the foam obtained is suitable for the purpose intended.

For Class B fires, lack of foam or interruption in the foam stream can cause a break in the foam blanket and greatly increase the risk of injury or death. Assure that:

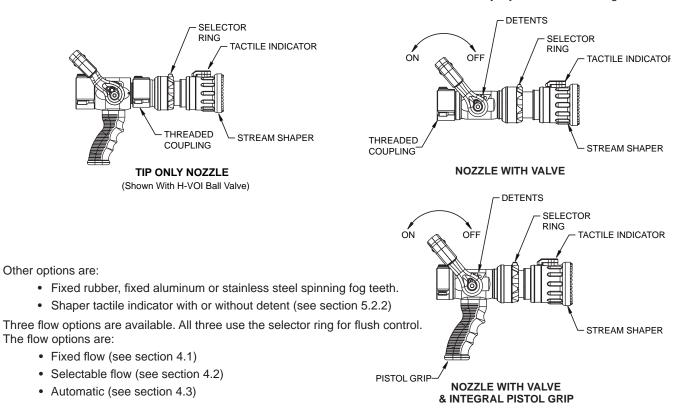
- Application rate is sufficient (see NFPA 11 or foam manufacturer's recommendations).
 - Enough concentrate is on hand to complete task (see NFPA for minimum duration requirements).
 - Foam logistics have been carefully planned. Allow for such things as:
 - o Storage of foam in a location not exposed to the hazard it protects.
 - o Personnel, equipment, and technique to deliver foam at a rapid enough rate.
 - o Removal of empty foam containers.
 - o Keeping clear path to deliver foam as hoses, other equipment, and vehicles are deployed.



Water streams are capable of injury and damage. Do not direct water stream to cause injury or damage to persons or property.

2.1 VARIOUS MODELS AND TERMS

The G-Force nozzle is available in several different models and inlet connections. Basic body styles are shown in figure 2.1A



2.2 NOZZLE COUPLINGS

Many inlet couplings such as NH (National Hose) or NPSH (National Pipe Straight Hose) can be specified at time of order.



Nozzle must be properly connected. Mismatched or damaged threads may cause nozzle to leak or uncouple under pressure and could cause injury.

CAUTION Dissimilar metals coupled together can cause galvanic corrosion that can result in the inability to unscrew the threads or complete loss of thread engagement over time. Per NFPA 1962 (1998 edition), if dissimilar metals are left coupled together an anti-corrosive lubricant should be applied to the threads. Also the coupling should be disconnected and inspected at least quarterly.

2.3 MECHANICAL SPECIFICATIONS

Maximum inlet pressure with valve shut off	560 psi	40 bar	
Operating temperature range of fluid	33 to 120º F	1 to 50° C	
Storage temperature range	-40 to 150º F	-40 to 65° C	
Materials used	Aluminum 6000 series hard anodized MIL8625 class 3 type 2, stainless steel 300 series, nylon 6-6, nitrile rubber, Torlon 4301 PAI		

3.0 USE WITH SALTWATER

Use with saltwater is permissible provided nozzle is thoroughly cleaned with fresh water after each use. The service life of the nozzle may be shortened due to the effects of corrosion and is not covered under warranty.

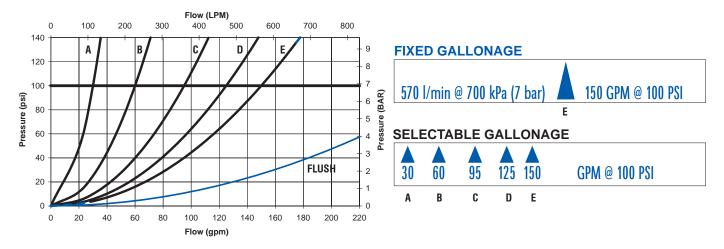
4.0 FLOW CHARACTERISTICS

4.1 FIXED FLOW

A fixed flow G-Force nozzle has one fixed discharge orifice and a flush setting. A fixed flow G-Force is flush able with the selector ring. Figure 4.2 shows flow and pressure graphs for the G-Force Fixed nozzles.

4.2 SELECTABLE FLOW

A selectable G-Force nozzle has several fixed discharge orifices and a flush setting. A particular orifice is selected by rotating the selector ring. Figure 4.2 shows flow and pressure graphs for the G-Force Selectable nozzles.



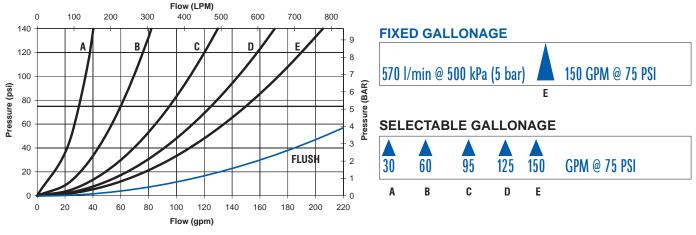


Fig 4.2 - G-Force Fixed and Selectable

4.3 AUTOMATIC

The G-Force is available with automatic pressure control and flush setting. Flow range and performance is shown in figure 4.3A.

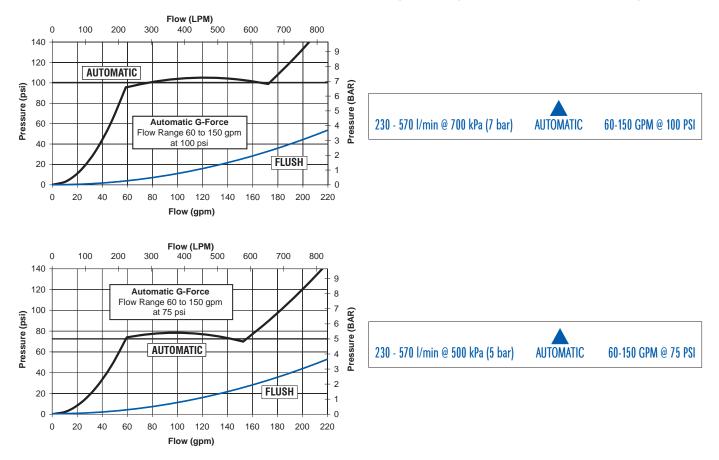
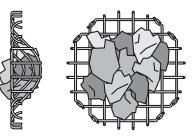


Figure 4.3A G-Force Automatics

4.4 FLUSH CONTROL

Small debris passes though the debris screen and may get caught inside the nozzle. This trapped material will cause poor stream quality, shortened reach, and reduced flow. To remove small debris, the nozzle may be flushed as follows: While still flowing water, rotate the selector ring counterclockwise (as viewed from behind the nozzle) to the flush position. Rotate the selector ring out of flush to continue normal operations. The nozzle operator must be prepared for a change in nozzle reaction when going into or returning from flush.





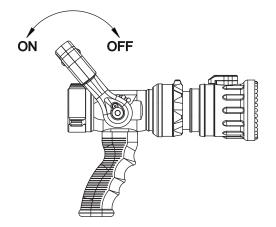
Large amounts or pieces of debris may be unflushable and can reduce the flow of the nozzle resulting in an ineffective flow. In the event of a blockage, it may be necessary to retreat to a safe area, uncouple the nozzle and remove debris.

5.0 NOZZLE CONTROLS

5.1 FLOW CONTROL

5.1.1 LEVER TYPE FLOW CONTROL

On models that use a lever type valve handle, the nozzle is shut off when the handle is fully forward. The valve handle has 5 detented flow positions. These detent positions allow the nozzle operator to regulate the flow of the nozzle depending on the need or what can be safely and effectively handled. TFT recommends the use of a pistol grip for easier handling. For additional stress reduction, a hose rope or strap may also be used. This permits more effective use and ease of advancement, while minimizing strain and fatigue

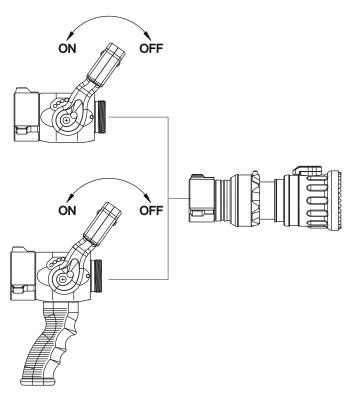


5.1.2 TIP ONLY

Tip only nozzles have NO shut off valve within the nozzle and MUST be used with a separate ball valve attached to the nozzle.

5.1.3 BALL SHUT OFF

A separate ball valve for use with Tip Only nozzles is shut off when the valve handle is fully forward. Pulling back on the handle opens the valve. Open valve slowly to avoid sudden changes in nozzle reaction. Close valve slowly to prevent water hammer. Note: In partially open positions a ball valve will cause turbulence and adversely affect stream quality.

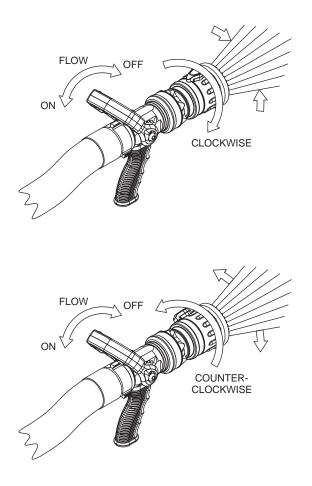


5.2 PATTERN CONTROL ADJUSTMENT

5.2.1 PATTERN CONTROL

TFT's G-Force has full pattern control from straight stream to wide fog. Turning the stream shaper clockwise (as seen from the operating position behind the nozzle) moves the shaper to the straight stream position. Turning the shaper counterclockwise will result in an increasingly wider pattern.

Since the stream trim point varies with flow, the stream should be "trimmed" after changing the flow to obtain the straightest and farthest reaching stream. To properly trim the stream, first open the pattern to narrow fog. Then close the stream to parallel to give maximum reach. **Note: Turning the shaper further forward will cause stream crossover and reduce the effective reach of the nozzle.**



TACTILE INDICATOR-(MOVES WITH BUMPER)

5.2.2 SHAPER TACTILE INDICATOR

The G-Force has a tactile indicator on the stream shaper. The tactile indicator allows the stream shaper position (and fog angle) to be determined by feel rather then by sight. The fog angle can be adjusted (see section 5.2.3) so that a desired fog angle is achieved when the tactile indicator in on top of the nozzle. The G-Force has an optional detent to aid in returning to a known fog angle. Note: The fog angle will change as flow and pressure change (becoming wider with increased flow).

5.2.3 FOG ANGLE ADJUSTMENT

Typically the G-Force is factory set with the tactile indicator in the top position for straight stream. The fog angle can be adjusted while keeping the tactile indicator on top by following the steps in figure 5.2.3. You will need a new shaper label if you change the fog angle adjustment.

1) Remove or cut the shaper label.

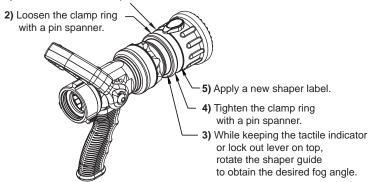


Figure 5.2.3 Fog Angle Adjustment

6.0 USE WITH FOAM

The G-Force nozzle may be used with foam solutions. Refer to fire service training for the proper use of foam.



For Class B fires, lack of foam or interruption in the foam stream can cause a break in the foam blanket and greatly increase the risk of injury or death. Assure that: Application rate is sufficient (see NFPA 11 or foam manufacturer's recommendations); Enough concentrate is on hand to complete task (see NFPA for minimum duration time requirements); Foam logistics have been carefully planned. Allow for such things as: Storage of foam in a location not exposed to the hazard it protects; Personnel, equipment and technique to deliver foam at a rapid enough rate; Removal of empty foam containers; Clear path to deliver foam, as hoses and other equipment and vehicles are deployed.



Improper use of foam can result in injury or damage to the environment. Follow foam manufacturer's instructions and fire service training to avoid: Using wrong type of foam on a fire, i.e. Class A foam on a Class B fire; Plunging foam into pools of burning liquid fuels; Causing environmental damage; Directing stream at personnel.



There is a wide variety of foam concentrates. Each user is responsible for verifying that any foam concentrate chosen to be used with this unit has been tested to assure that the foam obtained is suitable for the purpose intended.

6.1 FOAM ASPIRATING ATTACHMENTS

To increase the expansion ratio, G-Force Series MX Foamjet (model FJ-MX-G) multi-expansion attachment or LX Foamjet (model FJ-LX-G) low expansion attachment may be used with G-Force nozzles. These foam tubes attach and detach quickly from the nozzle. Note: As expansion ratio is increased, the reach of the nozzle will be decreased due to the greater amount of bubbles in the stream and their ability to penetrate the air. Generally the reach with foam is approximately 10% less than with water only. Actual results will vary based on brand of foam, hardness of water, temperature, etc. See Foamjet instruction manual for specific information. See LIA-025 (MANUAL: Foam Attachments for TFT Nozzles).

7.0 USE OF G-FORCE NOZZLES

IT IS THE RESPONSIBILITY OF THE INDIVIDUAL FIRE DEPARTMENT OR AGENCY TO DETERMINE PHYSICAL CAPABILITIES AND SUITABILITY FOR AN INDIVIDUAL'S USE OF THIS EQUIPMENT.

Many factors contribute to the extinguishment of a fire. Among the most important is delivering water at a flow rate sufficient to absorb heat faster than it is being generated. The flow rate depends largely on the pump discharge pressure and hose friction loss. It can be calculated using a hydraulic equation such as:

PDP = NP+FL+DL+EL

For additional information on calculating specific hose layouts, consult an appropriate fire service training manual, such as IFSTA, or A Guide to Automatic Nozzles, or call TFT's "Hydraulics Hotline" at 800-348-2686. See www.tft.com for flow rates at various pump pressures.

- **PDP** = Pump discharge pressure in PSI
- **NP** = Nozzle pressure in PSI
- FL = Hose friction loss in PSI
- **DL** = Device loss in PSI
- EL = Elevation loss in PSI

8.0 FIELD INSPECTION

TFT's G-Force is designed and manufactured to be damage resistant and require minimal maintenance. However, as the primary fire fighting tool upon which your life depends, it should be treated accordingly.

Use with saltwater is permissible provided nozzle is thoroughly cleaned with fresh water after each use. The service life of the nozzle may be shortened due to the effects of corrosion and is not covered under warranty.

Nozzle must be inspected for proper operation and function according to the inspection checklist on last page before each use. Any nozzle that fails inspection is dangerous to use and must be repaired before using.

Performance tests shall be conducted on the G-Force nozzle after a repair, or anytime a problem is reported to verify operation in accordance with TFT test procedures. Consult factory for the procedure that corresponds to the model and serial number of the nozzle. Any equipment which fails the related test criteria should be removed from service immediately. Troubleshooting guides are available with each test procedure or equipment can be returned to the factory for service and testing.

ACAUTION

Any alterations to the nozzle and its markings could diminish safety and constitutes a misuse of this product.

All Task Force Tip nozzles are factory lubricated with high quality silicone grease. This lubricant has excellent washout resistance and long term performance. If your department has unusually hard or sandy water, the moving parts may be affected. Foam agents and water additives contain soaps and chemicals that may break down the factory lubrication.

The moving parts of the nozzle should be checked on a regular basis for smooth and free operation, and signs of damage. IF THE NOZZLE IS OPERATING CORRECTLY, THEN NO ADDITIONAL LUBRICATION IS NEEDED. Any nozzle that is not operating correctly should be immediately removed from service and the problem corrected.

9.0 REPAIR

Factory service is available with repair time seldom exceeding one day in our facility. Factory-serviced nozzles are repaired by experienced technicians to original specifications, fully wet tested, and promptly returned. Repair charges for non-warranty items are minimal. Any returns should include a note as to the nature of the problem and whom to reach in case of questions.

Task Force Tips assumes no liability for damage to equipment or injury to personnel that is a result of user service.

Repair kits and repair parts are stocked for immediate shipment. Contact the factory or visit the web site at www.tft.com for parts lists, exploded views, test procedures and trouble shooting guides.

10.0 COLOR CODED VALVE HANDLE AND PISTOL GRIP

The TFT G-FORCE with lever type valve handles are supplied with black valve handle covers and pistol grips. The handle covers and pistol grips are available from TFT in various colors for those departments wishing to color code the nozzle to the discharge controls. A colored handle cover set will be sent upon receipt of the warranty card by TFT. Your department's name can also be engraved on the covers (see warranty card for more information).

Handle covers are replaceable by removing the four screws that hold the handle covers in place. Use a 3/32" allen wrench when replacing screws. Pistol grip is replaceable by following TFT instruction sheet LTT-108.

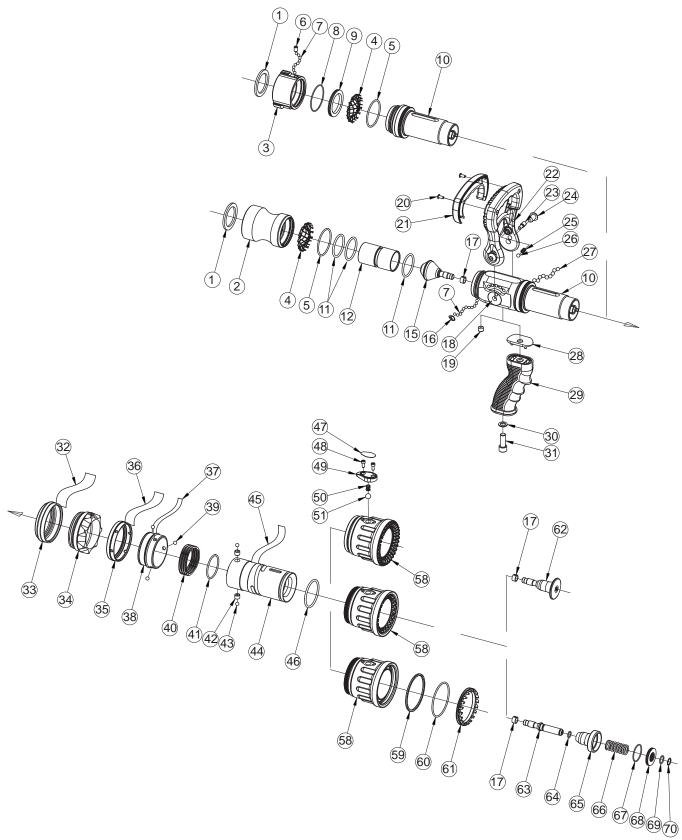
For standardization NFPA 1901 (A-4-9.3) recommends the following color code scheme:

Preconnect #1 or Bumper Jump Line	Orange	Other Colors Available:
Preconnect or discharge #2	Red	Gray
Preconnect or discharge #3	Yellow	Pink
Preconnect or discharge #4	White	Purple
Preconnect or discharge #5	Blue	• Tan
Preconnect or discharge #6	Black	
Preconnect or discharge #7	Green	
Foam Lines	Red w/ White border (Red/White)	

11.0 ANSWERS TO YOUR QUESTIONS

We appreciate the opportunity of serving you and making your job easier. If you have any problems or questions, our toll-free "Hydraulics Hotline", 800-348-2686, is normally available to you 24 hours a day, 7 days a week.

12.0 DRAWINGS AND PART LISTS



INDEX	DESCRIPTION	QTY	ITEM #
1	GASKET - 1.5" HOSE COUPLING	1	V3130
2 3	COUPLING 1.5"NH	1	G690N
	COUPLING 1.5"NPSH		G690I
	COUPLING NFTS 1.5"NH	1	G698N
	COUPLING NFTS 1.5"NPSH	<u> </u>	G698I
4	GASKET GRABBER	1	G606
5	VO-RING-134	1	VO-134
6	1/4-28 X 3/8 SOCKET SET SCREW	1	VT25-28SS375
7	3/16" SS BALL	34	V2120
8	VO-RING-032	1	VO-032
9	NFTS ADAPTER	1	G602
10	VALVE BODY - TIP ONLY	1	G601
10	VALVE BODY - SHUT OFF	1	G600
11	VO-RING-222	3	VO-222
12	SLIDER	1	G605
15	VALVE PLUG SUB ASSEMBLY	1	G903
16	PORT PLUG	1	B770
17	CENTERING BUSHING	2	G612
18	DISK	2	G615
19	3/8-16 X 5/16 SOCKET SET SCREW	1	VT37-16SS312
20	8-14 X 3/8 PUSHTITE BUTTON HEAD	4	VT08-14PT375
21	HANDLE COVER, BLACK	2	HM625
22	VALVE HANDLE	1	G620
23	CAM PIN	2	G616
24	HANDLE SCREW	2	HM645
25	DETENT SPRING	2	HM770
26	.243" TORLON BALL	2	VB243TO
27	1/8" ACETAL BALL	56	VB125AC
28	GRIP SPACER F100	1	HM693-F
29	PISTOL GRIP, BLACK	1	HM692-BLK
30	WASHER	1	VM4901
31	3/8-16 X 1 SOCKET HEAD SCREW	1	VT37-16SH1.0
	INDEX RING LABEL	- ·	
	30/60/95/125/150GPM @ 100PSI	1	G641S0L
	30/60/95/125/150 GPM @ 75 PSI		G641S1L
32	150 GPM @ 100 PSI		G641S5L
	150 GPM @ 75 PSI		G641S6L
	AUTOMATIC	<u> </u>	G641A0L
\square	AUTOMATIC	<u> </u>	G641A1L
33	SUBRING	33	SUBRING

INDEX	DESCRIPTION	QTY	ITEM #
	INDEX RING		
34	30/60/95/125/150 GPM @ 100 PSI		G641S0
	30/60/95/125/150 GPM @ 75 PSI	1	G641S1
	AUTOMATIC		G641A0
35	CLAMP RING	1	G656
36	CLAMP RING LABEL	1	G656L
37	SHAPER GUIDE LABEL	1	G655L
38	SHAPER GUIDE	1	G655
39	.243" TORLON BALL	3	VB243TO
40	FLUSH SPRING	1	G626
41	VO-RING-130	1	VO-130
42	CAM BALL SEAT	2	G624
43	.243" TORLON BALL	2	VB243TO
44	BARREL, SHAPER DETENT	1	G625
44	BARREL, SHAPER LOCK-OUT		G627
45	BARREL LABEL	1	G625L
46	VO-RING-225	1	VO-225
47	TACTILE INDICATOR LABEL	1	G657L
48	8-32 X 3/8 SOCKET HEAD SCREW	2	VT08-32SH375
49	TACTILE INDICATOR	1	G657
50	DETENT SPRING	1	H770
51	3/8" TORLON BALL	1	VB375TO
58	FIXED RUBBER TEETH SHAPER WITH BUMPER	1	G650
	FIXED METAL TEETH SHAPER WITH BUMPER		G654
	SPINNING TEETH SHAPER WITH BUMPER		G651
59	O.D. WEAR RING	1	G653
60	VO-RING-143	1	VO-143
61	SPINNING TEETH	1	G652
62	FIXED BAFFLE	1	G630
63	AUTOMATIC SHAFT	1	G633
64	VO-RING-012	1	VO-012
65	AUTOMATIC BAFFLE	1	G632
66	CONTROL SPRING 100 PSI	1	G635-100
	CONTROL SPRING 75 PSI / 5 BAR		G635-75
67	VO-RING-025	1	VO-025
68	SUBBAFFLE	1	G634
69	VO-RING-013		VO-013
70	SMALLEY RING	1	VR4225

13.0 INSPECTION CHECKLIST

Nozzle must be inspected before each use for proper operation and function according to this checklist. Check that:

- 1. There is no obvious damage such a missing broken or loose parts, damaged labels, etc.
- 2. Coupling is tight and leak free.
- 3. Valve handle moves freely though full range and shuts off flow.
- 4. Index ring moves smoothly to all positions including flush.
- 5. Nozzle flow is adequate as indicated by pump pressure and nozzle reaction.
- 6. Shaper turns freely and adjusts pattern through full range.
- 7. Shaper detent (if so equipped) operates smoothly and positively.



Any nozzle failing any part of the inspection checklist is unsafe and must have the problem corrected before use. Operating a nozzle that fails any of the above inspections is a misuse of the equipment.

14.0 WARRANTY

Task Force Tips, Inc., 3701 Innovation Way, Valparaiso, Indiana 46383-9327 USA ("TFT") warrants to the original purchaser of its G-Force series nozzles ("equipment"), and to anyone to whom it is transferred, that the equipment shall be free from defects in material and workmanship during the five (5) year period from the date of purchase.

TFT's obligation under this warranty is specifically limited to replacing or repairing the equipment (or its parts) which are shown by TFT's examination to be in a defective condition attributable to TFT. To qualify for this limited warranty, the claimant must return the equipment to TFT, at 3701 Innovation Way, Valparaiso, Indiana 46383-9327 USA, within a reasonable time after discovery of the defect. TFT will examine the equipment. If TFT determines that there is a defect attributable to it, TFT will correct the problem within a reasonable time. If the equipment is covered by this limited warranty, TFT will assume the expenses of repair.

If any defect attributable to TFT under this limited warranty cannot be reasonably cured by repair or replacement, TFT may elect to refund the purchase price of the equipment, less reasonable depreciation, in complete discharge of its obligations under this limited warranty. If TFT makes this election, claimant shall return the equipment to TFT free and clear of any liens and encumbrances.

This is a limited warranty. The original purchaser of the equipment, any person to whom it is transferred, and any person who is an intended or unintended beneficiary of the equipment, shall not be entitled to recover from TFT any consequential or incidental damages for injury to person and/or property resulting from any defective equipment manufactured or assembled by TFT. It is agreed and understood that the price stated for the equipment is in part consideration for limiting TFT's liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

TFT shall have no obligation under this limited warranty if the equipment is, or has been, misused or neglected (including failure to provide reasonable maintenance) or if there have been accidents to the equipment or if it has been repaired or altered by someone else.

THIS IS A LIMITED EXPRESS WARRANTY ONLY. TFT EXPRESSLY DISCLAIMS WITH RESPECT TO THE EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY TFT BEYOND THAT STATED IN THIS DOCUMENT.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

G-Force by: TASK FORCE TIPS 📟

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