

Recommended Installation, Maintenance and Inspection Instructions



Conventional Nozzles

^159403N	^159459N	209808	^498404N	^696159N	14531108
^159404N	^159463N	^209859N	4984108	^696161N	14531109
159407	^159494N	^209861N	4984109	^696172N	1400203N
159408	^209803N	209866	^696103N	^1400204N	1671904N
^159443N	^209804N	^209872N	^696104N	^2098208N	1671959N
^159454N	209807	^498403N	696108	159468	E159404N

SEE LISTINGS FOR DETAILS

IMPORTANTSAFETYINSTRUCTIONS-SAVETHESEINSTRUCTIONSINAREADILYACCESSIBLELOCATION

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov

A WARNING Designed for use at motor fuel dispensing facilities only.

INSTALLATION INSTRUCTIONS

- 1. Turn off dispenser and relieve line pressure.
- 2. Use pipe thread sealant (not Teflon[®] tape) approved for gasoline on the male threads of hose section.
- 3. Tighten approximately 1 or 2 turns past hand tight do not overtighten.
- 4. Pressurize system and visually check for leaks.
- 5. Test nozzle for proper automatic shut off between 5 10 gpm / 18.9 37.9 Lpm.

DO NOT OVERTIGHTEN. USE WRENCH ON HOSE NUT ONLY.

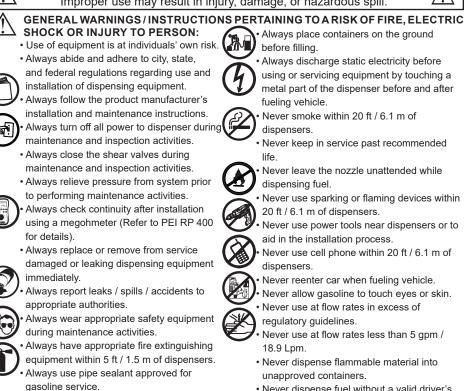
IF DRIVE OFF OCCURS

- Turn off dispenser and relieve line pressure.
- Visually check for fractured spout shear groove.
- · Check for leaks.
- · Check spout tip should be in round and sensing port should be clear of debris.
- Perform flow test of nozzle automatic shut off between 5 10 gpm / 18.9 37.9 Lpm.
- Check for electrical conductivity.

TESTING / MAINTENANCE / INSPECTION

Lubricate main valve stem.	MADE IN THE USA		
Annually • Check for electrical conductivity.			
Monthly • Check nozzle automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm. • Check "remove after" date.	as appropriate. ANY TEST / INSPECTION FAILURE REQUIRES IMMEDIATE EQUIPMENT REPLACEMENT OR REMOVAL FROM SERVICE.		
Daily Check for leaks / stains. Check for loose spouts. Check for damage. Check for bent lever. Check for broken clip / trigger spring. 	 All drive aways, maintenance and inspection activities must be logged using the serial number of the individual product. Apply city, state, or federal testing regulations 		

ALWAYS ADHERE TO INSTALLATION / USAGE INSTRUCTIONS AND WARNINGS. Improper use may result in injury, damage, or hazardous spill.



• Never dispense fuel without a valid driver's license.

CAUTION: DO NOT TOP OFF! Topping off can lead to spills and splashes.

IMPORTANTSAFETYINSTRUCTIONS-SAVETHESEINSTRUCTIONSINAREADILYACCESSIBLELOCATION

WARRANTY

VAPOR PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky[®] manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year of installation or fifteen (15) months from the manufacture date of shipment by Husky, whichever occurs first. The warranty period on repaired or replacement vapor recovery products is only for the remainder of the warranty period of the defective product.

CONVENTIONAL PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year from the manufacture date of shipment by Husky.

Buyer must return the products to Husky, transportation charges prepaid. This Warranty excludes the replaceable bellows, bellows spring assembly, spout assembly and scuff guard, unless (i) damage is obvious when the product is removed from shipping carton and (ii) the defective product is returned to Husky prior to use. This warranty does not apply to equipment or parts which have been installed improperly, damaged by misuse, improper operation or maintenance, or which are altered or repaired in any way.

The warranty provisions contained herein apply only to original purchasers who use the equipment for commercial or industrial purposes. There are no other warranties of merchantability, fitness for a particular purpose, or otherwise, and any other such warranties are hereby specifically disclaimed.

Husky assumes no liability for labor charges or other costs incurred by Buyer incidental to the service, adjustment, repair, return, removal or replacement of products. Husky assumes no liability for any incidental, consequential, or other damages under any warranty, express or implied, and all such liability is hereby expressly excluded.

Husky reserves the right to change or improve the design of any Husky fuel dispensing equipment without assuming any obligations to modify any fuel dispensing equipment previously manufactured.

OPERATION INSTRUCTIONS

- 1. Activate dispenser.
- 2. Insert spout into fill pipe opening.
- 3. Lower hose end of nozzle so the spout spring catches the inside of the fill pipe.
- 4. Raise the lever and begin fueling.
- 5. Nozzle will shut off automatically when the tank is full.
- 6. Wait 15 seconds to allow any fuel remaining in the spout to drain.
- 7. Remove nozzle from fill pipe by raising hose end of the nozzle.
- 8. Return nozzle to nozzle boot.

NOTE: Nozzle is equipped with a unique Flo-Stop® device that shuts off the nozzle if it falls from fill pipe or raises above horizontal.

FLO-EQUALIZER® INSTALLATION INSTRUCTIONS

Model 004490 Standard Flo-Equalizer®

- 1. Turn off dispenser and relieve line pressure.
- 2. Install pipe nipple (if necessary) to achieve proper flow direction
- 3. Use thread sealant on male threads -- DO NOT use Teflon tape.
- 4. Tighten approximately 1/2 turn past hand tight do not overtighten.
- 5. Confirm nozzle is properly installed, pressurize the system and check for leaks.

DISCLAIMER: In the event of pressure differential in excess of 25 psi / 1.7 bar across the Flo-Equalizer® or the presence of debris obstructing movement of internal components, th Equalizer® output may exceed 10 gpm / 37.9 Lpm. nents, the Flo

TROUBLESHOOTING GUIDE

Nozzle keeps shutting off or won't dispense...

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- 1. Make sure dispenser is on and activated. 2. Slow down flow rate - use lower notch on clip.
- 3. Clean spout tip end.

activate nozzle.

11.4 Lpm required. 2. Remove nozzle and drain hose.

1. Check for loose spout. 2. Check hose connection.

3. Check for system leak.

- 4. Clean or replace filter.
- Inspect Safe-T-Break[®].
- 6. Replace spout assembly.
- 7. Check dispenser pressure 19 psi / 1.3 bar to

1. Check flow rate - minimum of 3 gpm /

1. Remove Flo-Equalizer® (if equipped). 2. Verify dispenser is not in slow flow rate mode.

Nozzle won't shut off...

Nozzle leaks...

Low flow rate...

Flow rate above 10 gpm / 37.9 Lpm...

1. Verify Flo-Equalizer® being used - either inside or outside dispenser.

Check for cracks in nozzle and hose threads.

2. Check Flo-Equalizer® for debris.

GENERAL TECHNICAL DATA							
Fuel Type	Test and v	Test and warranty for gasoline and diesel fuel					
Flow Rate	x		leaded w/o Flo-Equalizer® = 14 gpm / 52.9 Lpm ht Duty Diesel w/o Flo-Equalizer® = 16 gpm / 60.5 Lpm				
	1A		leaded w/o Flo-Equalizer [®] = 20 gpm / 90.9 Lpm ht Duty Diesel w/o Flo-Equalizer® = 25 gpm / 94.6 Lpm				
Body	Die cast aluminum						
Disc	Fluorocar	Fluorocarbon					
Packing	Double O	Double O-ring seal protected by fiber reinforced Teflon®					
Lever	Two Piec	Two Piece Polymer EZ Lever					
Shipping Weight	X 1A	Unlead = 3 lbs / 1.3 kg Unlead = 3.3 lbs / 1.4 kg	Light Duty Diesel = 3.1 lbs / 1.4 kg Light Duty Diesel = 3.4 lbs / 1.5 kg				
Threads	X 1A	%" / 19.1 mm NPT 1" / 25.4 mm NPT					
Spout	Unlead =	13/16 in / 20.6 mm O.D.	Light Duty Diesel = 15/16 in / 23.8 mm O.D.				
Case Quantity	15						
Listings	c (U) us	^ NOT LISTED					

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SPOUT REPLACEMENT INSTRUCTIONS

- Model 001471 Light Duty Diesel Spout, 001473 Unlead Spout
- 1. Remove spout lock nut and spout.
- 2. Remove and discard spout seal.
- 3. Place new spout seal in groove.

HOLD OPEN CLIP INSTRUCTIONS

is in the port.

81 N•m. Do not overtighten.

6. Do not remove latch plate. NOTE: Nozzles can be ordered without clips.

REMOVAL

- 1. Remove nozzle from hose and drain.
- 2. Place nozzle on a flat surface in safe location.
- 3. Hold up on the latch clip to prevent rivet from rotating.

GUARD REPLACEMENT INSTRUCTIONS

NOZZLE GUARD

- Model 004145, 000554 1. Turn off dispenser and relieve line pressure.
- 2. Remove nozzle from hose.
- Remove waffle splash guard (if applicable).
- 4. Remove old nozzle guard.
- Install new nozzle guard over spout and pull back to cover nozzle body.
- 6. Re-install nozzle to hose.
- 7. Re-install waffle splash guard (if applicable).
- 8. Test nozzle for automatic shut off.

NOZZLE REGUARD

- Model 001804, 001806 1. Remove waffle splash guard (if applicable).
- Cut old guard at nozzle inlet and remove from nozzle.
- 3. Install new nozzle reguard over spout and pull back to cover nozzle body.
- 4. Pull zip tie through the eyelets and loop under nozzle inlet.
- 5. Pull tightly and trim off excess tie.
- 6. Re-install waffle splash guard (if applicable).

REGUARD PACKAGE Model 001809, 001811

- 1. Remove old waffle splash guard.
- 2. Cut old nozzle guard at nozzle inlet
- and remove from nozzle.Install new nozzle guard over spout
- Install new nozzle guard over spout and pull back to cover nozzle body.
- Pull tie through the eyelets and loop under nozzle inlet.
- 5. Pull tightly and trim off excess tie.
- Install new waffle splash guard over spout lock nut.

WAFFLE SPLASH GUARD Model 001807, 001808

1. Remove old waffle splash guard.

 Install new waffle splash guard over spout lock nut.

PROTECTION PACKAGE Model 000099, 001506

- Turn off dispenser and relieve line pressure.
- 2. Remove nozzle from hose.
- 3. Remove old waffle splash guard (if applicable).
- 4. Remove old nozzle guard.
- 5. Install new nozzle guard over spout and pull back to cover nozzle body.
- 6. Install new waffle splash guard over spout lock nut.
- 7. Re-install nozzle to hose.
- 8. Test nozzle for automatic shut off.

POPD[®] CLEAR COVER Model 006628

- 1. Trim advertisement to 3.75 in / 95.25 mm x 3.75 in / 95.25 mm.
- 2. Notch corners of advertisement approximately .375 in / 9.5 mm x .375 in / 9.5 mm.
- 3. Turn clear cover "inside out".
- Center advertisement on POPD[®] guard, using the notched corners as guides, and fold over the edges.
- Lay clear cover over advertisement, making sure the advertisement stays centered, and turn it "right side out".
- 6. Confirm the cover is securely in place.

POPD[®] GUARD Model 006665, 006655

- Turn off dispenser and relieve line pressure.
- 2. Remove nozzle from hose.

4. Insert new spout into body making sure the vent tube

5. While holding the spout in proper alignment, tighten

4. Drill off the riveted end using a 1/4 in / 6.4 mm bit.

5. Remove clip, rivet and torsion clip spring.

spout lock nut firmly, approximately 35 - 60 lbf+ft / 47 -

- Remove waffle splash guard (if applicable).
- 4. Remove old nozzle guard.
- 5. Install new POPD[®] guard over spout and pull back to cover nozzle body.
- 6. Re-install nozzle to hose.
- Re-install waffle splash guard (if applicable) over spout lock nut.
- 8. Test nozzle for automatic shut off.
- 9. Install desired advertisement and clear cover (model 006628).

POPD[®] REGUARD

Model 007205, 007210

- Remove waffle splash guard (if applicable).
- 2. Cut old guard at nozzle inlet and remove from nozzle.
- Install new POPD[®] reguard over spout and pull back to cover nozzle body.
- 4. Pull zip tie through the eyelets and loop under nozzle inlet.
- 5. Pull tightly and trim off excess tie.
- Re-install waffle splash guard (if applicable).
- 7. Install desired advertisement and clear cover (model 006628).

ACCESSORIES

Model 000385 Reducer Bushing (1" / 25.4 mm to $\ensuremath{\%}$ / 19.1 mm) Model 000397 Unleaded spout gauge