



Husky

Recommended Installation, Maintenance
and Inspection Instructions

**6025 ECO
Nozzle**

Enhanced Conventional (ECO) Nozzle

1190404 1190408 1190416 11904180 1708404*
1474504 E1190416 E1190404 E1708404*

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN A READILY ACCESSIBLE LOCATION.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



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 (up to 20% alcohol and petroleum blends) on the male threads of the hose section.
3. Tighten approximately 1 to 2 turns past hand tight - do not overtighten.
4. Test nozzle for proper automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
5. Test nozzle for safety interlock shut off.

DO NOT OVERTIGHTEN. USE WRENCH ON HOSE NUT ONLY.

IF DRIVE OFF OCCURS

- Turn off dispenser and relieve line pressure.
- Visually check for loose spout.
- Pressurize system and visually inspect for leaks.
- Check for damage to safety interlock - bent, out of round, rips, tears, elongated.
- Check spout tip - should be 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 safety interlock.
- Check for electrical conductivity.

TESTING / MAINTENANCE / INSPECTION



Daily

- Check for leaks / stains.
- Check for loose spouts.
- Check for damage.
- Check for bent / broken lever.
- Check for broken clip / trigger spring.
- Check for damaged / torn safety interlock.



Monthly

- Check safety interlock.
- Check nozzle automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
- Check "remove after" date.



Annually

- Check for electrical conductivity.
- Lubricate main valve stem.

• 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 as appropriate.

***ANY TEST / INSPECTION FAILURE
REQUIRES IMMEDIATE EQUIPMENT
REPLACEMENT OR REMOVAL FROM
SERVICE.***

MADE IN THE USA

**ALWAYS ADHERE TO INSTALLATION / USAGE INSTRUCTIONS AND WARNINGS.**

Improper use may result in injury, damage, or hazardous spill.

**GENERAL WARNINGS / INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS:**

- Use of equipment is at individuals' own risk.
- Always abide and adhere to city, state, and federal regulations regarding use and installation of dispensing equipment.



- Always follow the product manufacturer's installation and maintenance instructions.
- Always turn off all power to dispenser during maintenance and inspection activities.
- Always close the shear valves during maintenance and inspection activities.



- Always relieve pressure from system prior to performing maintenance activities.
- Always check continuity after installation using a megohmmeter (Refer to PEI RP 400 for details).
- Always replace or remove from service damaged or leaking dispensing equipment immediately.



- Always report leaks / spills / accidents to appropriate authorities.



- Always wear appropriate safety equipment during maintenance activities.



- Always have appropriate fire extinguishing equipment within 5 ft / 1.5 m of dispensers.
- Always use pipe sealant approved for gasoline service.



- Always place containers on the ground before filling.



- Always discharge static electricity before using or servicing equipment by touching a metal part of the dispenser before and after fueling vehicle.



- Never smoke within 20 ft / 6.1 m of dispensers.



- Never keep in service past recommended life.



- Never leave the nozzle unattended while dispensing fuel.



- Never use sparking or flaming devices within 20 ft / 6.1 m of dispensers.



- Never use power tools near dispensers or to aid in the installation process.



- Never use cell phone within 20 ft / 6.1 m of dispensers.



- Never reenter car when fueling vehicle.



- Never allow gasoline to touch eyes or skin.



- Never use at flow rates in excess of regulatory guidelines.



- Never use at flow rates less than 5 gpm / 18.9 Lpm.

- Never dispense flammable material into unapproved containers.

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

CAUTION: DO NOT TOP OFF!

Topping off can lead to spills and splashes.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN A READILY ACCESSIBLE LOCATION.**WARRANTY**

ECO NOZZLE – Husky® Corporation will, at its option, repair, replace, or credit the purchase price of any model in the ECO Nozzle family 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 by Husky, whichever occurs first. The warranty period on repaired or replacement ECO Nozzle products is only for the remainder of the warranty period of the defective product.

The warranty is contingent upon the Buyer utilizing 'Husky certified' installers / maintenance / service technicians. Buyer must return the products to Husky, transportation charges prepaid. This Warranty excludes the replaceable spout and interlock assembly, hold open latch assembly, and scuff guard, unless the product is damaged from rubbing inside the shipping carton and the defective product is returned to Husky prior to use.

This warranty does not apply to equipment that has 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 the original purchaser 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 until the safety interlock is compressed approximately 1/2 in / 12.7 mm.
3. Lower hose end of nozzle so the spout ring 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. Wait 15 seconds to allow any gasoline remaining in the spout to drain before removing the nozzle from fill pipe.
6. Remove nozzle from fill pipe by compressing safety interlock and raising hose end of nozzle.
7. Return nozzle to nozzle boot.

NOTE: If the nozzle is removed or falls from the fill pipe opening while dispensing, the safety interlock will be released causing the nozzle to shut off. The nozzle will not reopen until the safety interlock has been compressed again. This safety interlock fulfills the NFPA Code 30A requirement for self-service nozzles with a hold open latch.

TROUBLESHOOTING GUIDE

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

1. Make sure dispenser is on and activated.
2. Insert nozzle farther into vehicle fill pipe.
3. Slow down flow rate - use lower notch on clip.
4. Clean spout tip end.
5. Check installation of safety interlock assembly.
6. Clean or replace filter.
7. Inspect Safe-T-Break®.
8. Replace spout assembly.

Nozzle won't shut off...

1. Check flow rate - minimum of 3 gpm / 11.4 Lpm required.
2. Remove nozzle and drain hose.

Nozzle dispenses without compressing safety interlock...

1. Replace safety interlock assembly.

Nozzle leaks...

1. Check for loose spout.
2. Check hose connection.
3. Check for cracks in nozzle and hose threads.

Low flow rate...

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

Flow rate above 10 gpm / 37.9 Lpm...

1. Verify Flo-Equalizer® being used - either inside or outside dispenser.
2. Check Flo-Equalizer® for debris.

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 snugly -- DO NOT overtighten.
5. Confirm nozzle is properly installed, pressurize the system and check for leaks.

NOTE: 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, the Flo-Equalizer® output may exceed 10 gpm / 37.9 Lpm.

GENERAL TECHNICAL DATA

Fuel Type	Test and warranty for gasoline for all nozzles. 1708404 and E1708404 includes up to E25
Flow Rate	Unleaded w/o Flo-Equalizer® = 14 gpm / 52.9 Lpm
Body	Die cast aluminum
Disc	Fluorocarbon
Packing	Double O-ring seal protected by Teflon impregnated Graphite
Lever	Two piece high impact polymer
Shipping Weight	3.6 lbs / 1.6 kg
Threads	¼ in / 19 mm NPT
Spout	Unlead = 13/16 in / 20.6 mm O.D.
Case Quantity	15

Listings

Default



^NOT LISTED

SPOUT & INTERLOCK REPLACEMENT INSTRUCTIONS

Model 013664 – ECO, UNL, Spout Assembly Kit

1. Turn off dispenser and relieve line pressure.
2. Remove nozzle from the hose and drain fuel into approved container. With the nozzle inlet over the container, pull back the interlock and pull the lever to drain remaining fuel in the nozzle.
3. Carefully remove the guard from the nozzle. First remove the guard from the inlet end, then peel it toward the spout. Finally, rotate the guard to pull it over the splash guard.
4. With the nozzle upside down, use a flat head screwdriver to pry and remove the wire ring clamp from the interlock collar.
5. Separate the tabs of the interlock body from the tabs of the collar.
6. Compress the interlock by pulling the interlock body away from the nozzle to expose the spout nut. While holding the interlock body in the compressed position, use a 1 - 9/16" open ended wrench to loosen the nut.
7. Carefully remove the nut from the nozzle along with the spout and interlock assembly and discard.
8. Where the spout contacted the nozzle, remove the black spout seal from inside the nozzle and discard.
9. From the new spout assembly kit (013664), install the new black spout seal into the groove.
10. Locate the spring from the spout assembly kit. Install the flared end of the spring into the hole inside the center of the nozzle to create a snug fit.
11. Take the new spout assembly and carefully align the black vent tube over the other end of the spring. Push the spout onto the seal and hold it while turning the spout nut by hand onto the threads.
12. Once the nut is hand tight, make sure the spout assembly is aligned vertically with the nozzle body before tightening the nut using the 1 -9/16" open ended wrench.
13. With the nut tightened, cut the tie down strap that is compressing the new spout & interlock assembly.
14. Align the tabs on the interlock body with the tabs on the interlock collar and install the new wire ring clamp to secure both parts together.
15. Before installing the guard, test the function of the interlock by pulling back on the interlock, lifting the lever and then releasing the interlock. The nozzle should engage when the lever is lifted and disengage when the interlock is released. If not, recheck the steps in the replacement process.
16. With the interlock working properly, install the guard over the spout and interlock components. Carefully rotate the hole in the guard to fit over the interlock splash guard.
17. Pull back guard to cover nozzle body.
18. Make sure the larger hole in the guard is centered on the interlock.
19. Make sure the smaller hole in the guard is centered on the inlet opening.
20. Check interlock function to assure proper assembly. If necessary, continue to readjust the guard until the interlock feels free to move with the guard closely fit around it.
21. Re-install nozzle onto the hose.
22. Perform a final flow test to verify no leaks and the proper operation of the interlock.

HOLD OPEN CLIP INSTALLATION / REMOVAL INSTRUCTIONS

Model 003593 Hold Open Clip Kit

INSTALLATION

1. Turn off dispenser and relieve line pressure.
2. Remove nozzle from the hose and drain fuel into approved container.
3. Position the latch spring under the latch clip and hold in place so the latch clip straddles the mating hole.
4. Insert the latch rivet through the latch clip and lever, making sure the latch spring is secured in position by the rivet.
5. Install push nut onto the rivet by supporting the back side of the rivet. Do not hammer the nut in place.
6. Squeeze the lever several times with the interlock engaged (if applicable) to check the operation of the Hold Open Clip.
7. Adjustment may be required if clip and lever are not parallel with each other. Adjust by pulling back on the clip slightly.

8. With interlock engaged (if applicable) and Hold Open Clip set, test nozzle for proper automatic shut off

NOTE: Field installation of the hold open clip is NOT UL approved because improper installation may cause the nozzle to fail.

REMOVAL

1. Turn off dispenser and relieve line pressure.
2. Remove nozzle from the hose and drain fuel into approved container.
3. Hold up on the latch clip to prevent rivet from rotating.
4. Using a 1/4" / 6.35 mm drill bit, drill off the riveted end of the latch rivet.
5. Push the latch rivet out.
6. Remove and discard the latch clip, latch rivet, and latch spring. Do not remove the latch plate.
7. With interlock engaged (if applicable), test nozzle for proper automatic shut off.

NOTE: Nozzles can be ordered without clips.

FULL GRIP GUARD REPLACEMENT INSTRUCTIONS

Model 014034 – Full Grip Nozzle Guard

1. Turn off dispenser and relieve line pressure.
2. Remove nozzle from the hose and drain fuel into approved container.
3. Remove old guard. Cut guard if necessary.
4. Install new guard over the spout and interlock components. Carefully rotate the hole in the guard to fit over the interlock splash guard.
5. Pull back guard to cover nozzle body.
6. Make sure the larger hole in the guard is centered on the interlock.
7. Make sure the smaller hole in the guard is centered on the inlet opening.
8. Check interlock function to assure proper assembly. If necessary, continue to readjust the guard until the interlock feels free to move with the guard closely fit around it.
9. Re-install nozzle onto the hose.

MATE GUARD REPLACEMENT INSTRUCTIONS

Model 016424 – Mate Guard

Model 016425 – Handle Cover

Model 016423 – Mate Guard & Handle Cover Kit

1. Remove old guard. Cut guard if necessary.
2. If needed, remove the old handle cover and install a new one (Model 015431) by snapping the cover over the handle.
3. Install new guard over the spout and interlock components. Carefully rotate the hole in the guard to fit over the interlock splash guard.
4. Pull back mate guard to cover the front of the plastic hand guard.
5. Insert shoe horn or similar tool under the side of the mate guard.
6. Slide the shoe horn to the top of the nozzle and pull it towards the nozzle inlet to pull the mate guard over the main body cap.
7. Make sure the hole in the mate guard is centered on the interlock.
8. Check interlock function to assure proper assembly. If necessary, continue to readjust the mate guard until the interlock feels free to move with the guard closely fit around it.