

I. BON LEAK DISCOVERY TOOLS

Model: 0702E

Finds All A/C, Oil, Coolant, Power Steering, ATF, Fuel, Hydraulic and Auto Body Leaks by your own eyes!
The First Time, Every Time!

⊕ HOW IT WORKS

- ⊕ Add dye and let it circulate. The dye escapes with the refrigerant or fluid and collects at all leak sites.
- ⊕ Scan the system with the inspection lamp and see all leaks glow brightly!

Everything the Professional or Do-It-Yourselfer Needs for Complete A/C and Fluid Leak Detection!

CONTENTS

1. BON-37092, HLED LAMP inspection lamp
2. BON-3P fluorescence-enhancing glasses
3. Fluorescent dyes—3 1-oz bottles
 - BON-900337 universal air conditioning dye for R-12 and R-134a systems
 - BON-91031 for all oil-based fluids--Do not use for brake systems
 - BON-95031 for coolant systems and auto body leaks
4. Fluorescent dyes—6 pcs 3ml bottles:
 - BON-900033 universal air conditioning dye for R-12 and R-134a systems
5. BON-681 A/C dye injector(needle charger)
6. BON-682 One-side valve
7. BON-686 A/C pipe charger
8. BON-70101 Leak Dye Cleaner/Remover
9. Fast coupler
10. Carrying case 24
11. PP plastic Kit box

ENGINE OIL, POWER STEERING, ATF, FUEL, COOLANT AND HYDRAULIC LEAK INSPECTION

1. Turn OFF the engine and pour the fluid dyes through the appropriate fill ports. Use **BON-91031** for oil-based systems; use **BON-95031** for coolant. Coolant system--Make sure the engine is cold before removing the radiator cap to add dye.
2. Run the engine and/or operate the system for 5 to 10 minutes to circulate the dye. Smaller leaks may require longer run time.
3. Connect the lamp's battery clips to any 12-volt vehicle battery or regulated 12 VDC 2.92 amp (minimum) power source. Scan the system with the lamp while wearing the glasses. Leaks will show with a bright fluorescent glow.
4. After the leaks are repaired, clean off the dye residue with dye cleaner and reinspect.

AUTO BODY LEAK INSPECTION

1. Mix **BON-95031** dye in water in the proper dilution and spray the dye/water solution on the outside of the vehicle where a leak is suspected.

2. Scan the inside of the vehicle with the lamp while wearing the glasses to see any leakthrough.
3. Clean all areas with dye cleaner.

Dye/Fluid Ratios		
FLUID TYPE	USE THIS MUCH DYE	FOR THIS AMOUNT OF FLUID
Use BON-91031 for all these leaks*		
Engine oil (includes synthetics)**		
Gasoline	1/3 oz (10ml)	4-6 qt (3.8-5.7 L)
Diesel		4 qt (3.8 L)
Power steering		4 qt (3.8 L)
Automatic transmission		12 qt (11.4 L)
Fuel (gasoline and diesel)***	1 oz (30 ml)	12-18 gal (45.4-68.1 L)
Hydraulics (petroleum-based)		
Light- to medium-colored		4-6 qt (3.8-5.7 L)
Very dark or intensely blue		
USE BON-95031 for these leaks		
Engine coolant	1 oz	4 gal (15 L)
Auto body leak check	(30 ml)	60 gal (230 L) water

*Do not use for brake fluid

**If the engine oil is very dark or dirty, additional dye may be added to show a brighter fluorescent glow. As an alternative, change the oil before adding the dye.

***When inspecting the fuel tank, the tank should contain less than 5 gallons of fuel.

AIR CONDITIONING LEAK INSPECTION

The dye injector hose assembly must be purged with **BON-900337 /BON-900033 dye** the first time it is used.

Dosage = 1/4 oz (7.5 ml) of **BON-900337 dye** for every 7 oz (210 ml) of compressor oil (E.g: PAG/POE/AB/MO) .

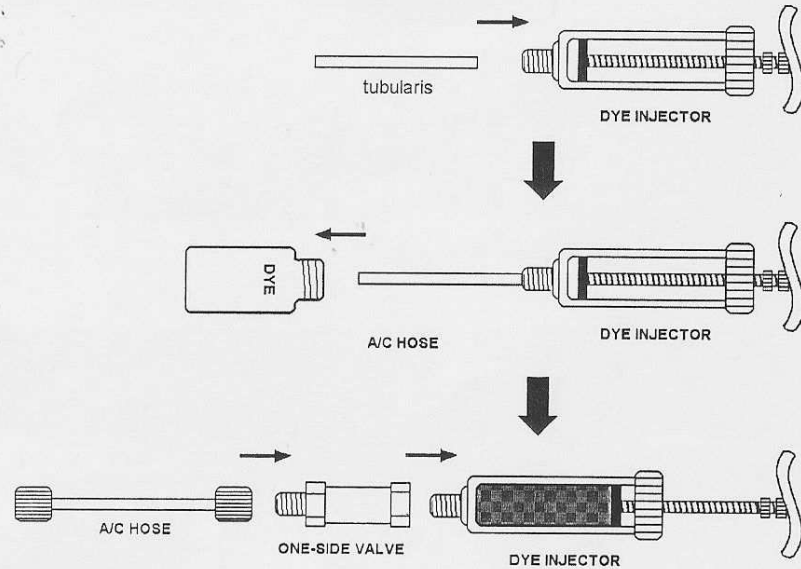
1 pcs of **BON-900033** for every 7 oz (210 ml) of compressor oil.
(E.g: PAG/POE/AB/MO)

This will treat the A/C systems in most passenger cars and light trucks.

BON-900337/BON-900033 dye

1. Connect the pipette to the Dye injector, and dip into **BON-900337**.
2. Take dye full of dye injector; take care not to take in air.
3. Take off pipette, connect one-side valve, A/C hose, Fast coupler and keep tight, slowly remove air completely from the system.
4. Turn on A/C system
5. For R-134A system, connect A/C hose of the dye injector and the connector of R134A, then connect with the A/C system of low voltage, and then push the dye slowly into the A/C system of low voltage.
6. For R-12 System, directly connect A/C hose of the dye injector and A/C system of low voltage, and then push the dye slowly into the A/C system of low voltage.
7. Cover the service port with a cloth to catch dye residue when disconnecting the hose.

8. Continue to run the system for 5 to 10 minutes to circulate the dye and permeate all leaks.
9. Turn off the engine and NC system and inspect with the lamp while wearing the glasses. Leaks will show with a bright fluorescent glow.
10. After the leaks are repaired, clean off the dye residue with DYE CLEANER and reinspect.



To find smaller leaks, operate the A/C system as much as possible over the next 24 to 48 hours. Reinspect with the lamp and clean again with dye cleaner.

DYE CAUTIONS

- Keep out of reach of children.
- Read cautions on bottle.
- Wear protective eyewear.
- Wipe all dye spills immediately.
- May damage paints and finishes.
- May stain hands and clothing.
- Never mix different dyes together.
- Store in cool place away from sunlight.

When used properly, BON-900337/BON-900033 BON-900037 dyes may remain safely in the vehicle system until the host fluid (A/C compressor lubricant, oil, coolant, etc.) is changed.

CLEANUP/REINSPECTION

After the leaks are repaired, clean the remaining dye from the leak sites with dye cleaner. Remaining dye could be mistaken for a leak. Check all areas again with the lamp to make sure no dye remains. Then run the engine or system for another 10 to 15 minutes and reinspect with the lamp to be sure that all leaks have been repaired and no new leaks appear.

DISCOVERY-37092 HLED Leak Detection Lamp

Use 3 x AAA batteries.

I.BON TIPS

- You must wear the 3P fluorescence-enhancing protective glasses provided in this kit when inspecting for leaks. They eliminate reflected HLED LAMP light from the BON-37092 HLED LAMP, which could mask the fluorescent glow from leaks when viewed with the naked eye. The glow will show best under low light conditions.
- After the fluid system dye has circulated, inspect the system's dipstick or fluid port with the lamp to see the fluorescent glow. Add a small amount of dye if needed to increase the glow. Additional dye will not harm the system.
- Use a mirror to check behind and under hard-to-reach areas to view leaks. Wipe areas with a clean cloth and check the cloth with the lamp for the dye's glow.
- Before affixing the underhood label, mark the type of dye used and the date of service.

LIMITED WARRANTY

I.BON Products warrants that this product will be free from defects in manufacture.

I.BON Products' obligation under this warranty is limited to repairing or replacing, at the option of I.BON Products, any part(s) of the product which, if properly installed, used and maintained, proves upon factory examination to have been defective in material or workmanship within 12 months from the date of purchase.

This warranty does not apply to any product or part that (1) is normally consumed in operation or (2) has a normal life inherently shorter than the warranty stated. For example, bulbs and filters are warranted for 30 days.

This warranty is in place of all other warranties of quality. There are no other warranties either oral, written, express, implied or statutory.

IMPLIED WARRANTIES OF FITNESS FOR PURPOSE AND MERCHANTABILITY ARE EXCLUDED.

This warranty and your remedies there under are solely as stated here. In no event shall I.BON Products be liable for special, indirect, incidental or consequential damages.

Retain this information for your records and note on it the date of purchase.

NOTE: For assistance of any kind, contact the Customer Service Department at I.BON Products at ibon1@163.com

Date of Purchase _____

If you like fluorescent leak detection, you'll love our other I.BON' products.

- Cordless, rechargeable flashlights and telescoping leak detectors!
- A full range of super-bright fluorescent dyes and a variety of easy-to-use A/C dye injectors!

Check them out!