

# INSTRUCTION MANUAL

## A/C Dye Injection Tool Kit

### 09870-DYEKIT



**TRACER**PRODUCTS  
A Division of Spectronics Corporation

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## CAUTIONS

- **DO NOT** look directly into the ultraviolet (UV) flashlight and always wear ultraviolet (UV) glasses.
- Wear safety glasses when connecting/disconnecting the dye injection tool from the air conditioning service port.
- **DO NOT** operate the air conditioning system while the dye injection tool is connected to air conditioning system.
- **DO NOT** connect the dye injection tool to a system that is evacuated.
- The air conditioning system must contain enough refrigerant to operate the compressor and circulate the fluorescence dye in order to find leaks.
- **DO NOT** mix ND-11 and ND-12 fluorescence dyes. Always use the fluorescence dye cartridges with the designated injector tool brass coupler.
- After use, store the injector tool and fluorescence cartridges in a cool place, away from sunlight.
- Dispose of any fluorescence dye in accordance with all local, state and federal regulations.

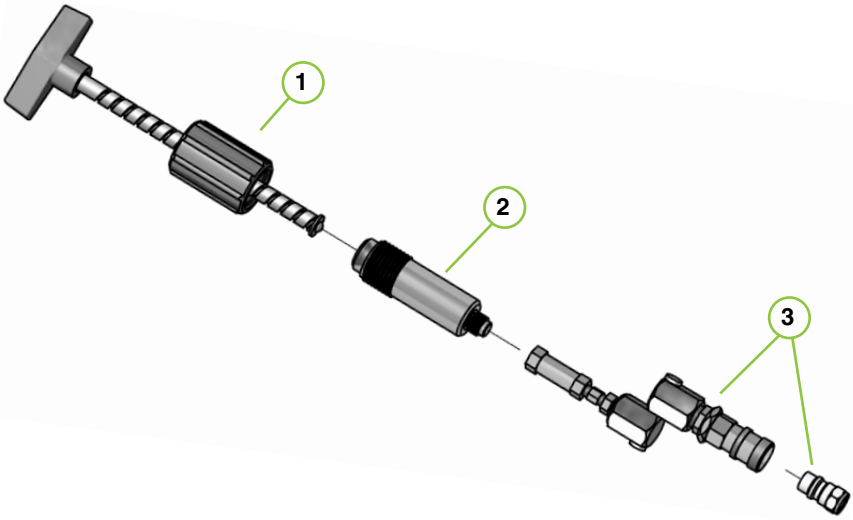
## NOTE:

Two dye cartridges are required per vehicle service. 1st cartridge will be completely purged through the brass coupler to ensure there are no contaminants such as moisture, air, etc. The 2nd cartridge will be injected into the air conditioning system to inspect for leaks.

1. Identify the compressor oil and refrigerant system type. Follow the steps itemized below using the correct brass coupler/purge fitting for the compressor oil and refrigerant type.

Compressor Oil	Refrigerant Type	Brass Coupler / Purge Fitting P/N
ND-11	R134a	09870-10010-Y
	R1234yf	09870-20010-Y
ND-12	R134a	09870-10010-B
	R1234yf	09870-20010-B

2. Remove the large cap from the 1<sup>st</sup> cartridge. Completely unscrew the handle on the injector and screw the dye cartridge into it.
3. Remove the purge fitting from the brass coupler and hold the cartridge vertically with the small cap on top. Remove the cap and screw the cartridge firmly to the brass coupler.
4. Insert the purge fitting into the brass coupler.
5. Turn the handle to advance the plunger until it stops, passing all the dye out of the cartridge.
6. Remove the purge fitting from the brass coupler.
7. Completely unscrew the handle on the injector and unscrew the 1st empty cartridge from the brass coupler and dispose.
8. Install the 2<sup>nd</sup> cartridge onto the brass coupler.
9. Install the purge fitting to the brass coupler and turn the handle to advance the plunger until a small amount of dye exists the purge fitting.
10. Remove the purge fitting. The injection tool assembly is now purged and ready for use.
11. Connect the brass coupler to the low-side service port.
12. Turn the plunger clockwise to inject all the dye into the vehicle.
13. Disconnect the brass coupler from the service port and wipe both clean.
14. Start the engine and run the air conditioning system on maximum for 5 to 10 minutes to circulate the dye through the system.
15. Turn OFF the engine and inspect for possible leak areas with the ultraviolet (UV) flashlight. Leaks will glow bright yellow-green. The fluorescence will be brighter under low light condition.
16. To find smaller leaks, operate the air conditioning system over the next 24 to 48 hours inspecting periodically for leaks.
17. Once all leak repairs are completed, use the GLO-AWAY + dye cleaner and the ultraviolet (UV) flashlight to clean the area and ensure no dye remains.



ITEM	PART NUMBER	DESCRIPTION
1	09870-TP9845	EZ-Ject™ Dye Injector Assembly
2	09874-20010	*Oil Capsule, ND11, Fluorescence
2	09874-10010	*Oil Capsule, ND12, Fluorescence
3	09870-10010-Y	R-134a coupler for ND11
3	09870-20010-Y	R-1234yf coupler for ND11
3	09870-10010-B	R-134a coupler for ND12
3	09870-20010-B	R-1234yf coupler for ND12
-	09870-TPOPUVP	OPTI-PRO™ UV Plus Rechargeable Violet Light LED Leak Detection Light
-	09870-0TP14	USB Charger
-	09870-TP9940	Fluorescence-enhancing Glasses
-	09870-0TP19	Glo-Away™ Plus Fluorescent Dye Cleaner
-	09870-CASE	Green Carrying Case

\* **REPLACEMENT A/C DYE CARTRIDGES**, single-use fluorescent A/C dye oil capsules are **sold separately** and available for order through the Toyota and Lexus parts systems.

**TO REORDER PARTS**, please use part numbers above. **TO ORDER**, contact your tool and equipment program at **800-368-6787**.

**⚠ WARNING**

**KEEP OUT OF REACH OF CHILDREN**  
**WASH THOROUGHLY AFTER HANDLING**  
**WIPE ALL SPILLS TO AVOID STAINS**  
**STORE IN A COOL PLACE AWAY FROM SUNLIGHT**  
**STORE IN CLIMATE CONTROLLED, DRY AREA**  
**DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS**

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