

TRACERLINE®

MOBILE LEAK DETECTION PRODUCTS

for diagnostics and preventive maintenance



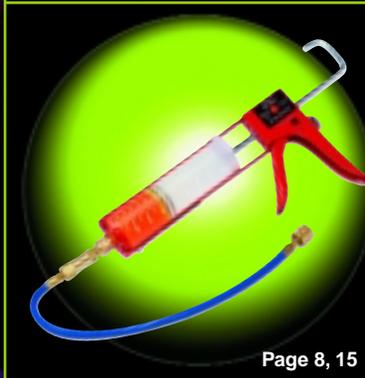
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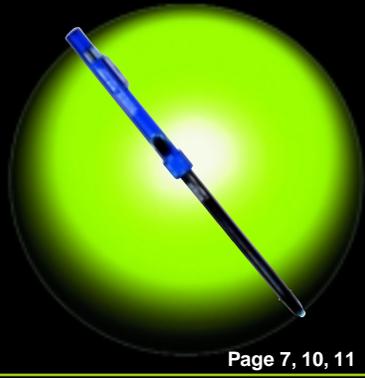
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Award-winning products
from the inventor of fluorescent leak detection

TRACERLINE®

FLUORESCENT LEAK DETECTION

How It Works

A small amount of fluorescent dye is added to a vehicle's A/C or fluid system and allowed to circulate. The dye escapes with the system's refrigerant or fluid and remains at *all* leak sites. When the system is scanned with a Tracerline® ultraviolet or UV/blue light inspection lamp, the dye fluoresces a brilliant yellow-green to pinpoint the *exact* source of *every* leak.

To check repairs, the residual dye is removed from leak sites with GLO-AWAY™ dye cleaner/remover. The system is run and repaired sites are then reinspected with the lamp. No glow means that *all* the leaks were repaired. It's that easy! *The dye can remain safely in the system indefinitely.*

Fluorescent leak detection is the only method that is ideal for both accurate diagnostics and preventive maintenance.

Tracerline® Fluoro-Lite® dye is the only *solvent-free* dye that is certified to meet or exceed SAE standard J2297 for refrigerant leak detection. Fluoro-Lite® is also the only A/C dye that is *factory installed* in new cars and trucks by automakers in the U.S., Japan, Europe and Korea.

Product Support

Product literature, videos, instructions and a full staff of trained customer service representatives and technical service engineers are available from Tracer Products. (*See inside back cover for details.*)

Additional product information and support are available on our website:
www.tracerline.com

Company Background

Tracer Products' parent company, Spectronics Corporation, *invented* fluorescent leak detection in 1955 and is the world leader in ultraviolet technology.

Order Information • Technical Assistance • Customer Service • Authorized Distributors

Phone: 1-800-641-1133 • 516-333-1254

Fax: 1-800-354-2353 • 516-876-8411

www.tracerline.com

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NEW FROM

TRACERLINE®

We Take Leaks Seriously!



A new product line in full-color display packaging!



Blue Max™ Penlight Leak Detector

100,000-hour lifetime blue LED. Unique EZ-Reach™ telescopic extender (patent pending) allows for close-up inspections in tight areas. Extendable length: 6⁵/₈" (16.9cm) to 10¹/₄" (26cm); maximum diameter 5/8" (1.6cm). Weight: 1.4 oz. (40gm) with 3 AAAA alkaline batteries (included). Waterproof, anodized aluminum housing. Fluorescence-enhancing glasses.

Lifetime Warranty (See Warranty Section in this catalog for details.) (TP-8600CS)



BigEZ™ Kits for A/C Systems

Includes 4-oz. BigEZ™ multi-dose cartridge with Fluoro-Lite® A/C dye, injector assembly, hose(s) and coupler(s). Each cartridge treats up to 32 vehicle A/C systems. Two kits available—universal dye kit (shown) and R-134a/PAG dye kit (TP-9742CS, TP-9741CS)

BigEZ™ Replacement Dye Cartridges

Three types of 4-oz. multi-dose cartridges available with Fluoro-Lite® universal dye (shown), R-134a/PAG dye or R-12 dye.

One cartridge treats up to 32 vehicle A/C systems.

Fluoro-Lite® universal and R-134a dyes are the only solvent-free dyes certified to meet or exceed SAE standard J2297.

Cartridges fit BigEZ™ injector as well as all popular "caulking-gun" and pump-type injectors.

(TP-9770-0004CS, TP-9760-0004CS, TP-9750-0004CS)

LeakFinder™ A/C and Fluid Leak Detection Products



LeakFinder™ Kit for Fluid Systems

Includes the patented TITAN® TP-8100A UV/Blue™ lamp – the most powerful economy, 12-volt inspection lamp! Winner of *Motor* magazine's Top 20 Tools Award!

Also includes: 1-oz. bottle of Dye-Lite® All-In-One™ fluorescent dye for all oil-based fluids, 1-oz. bottle of Dye-Lite® dye for water-based coolants and fluorescence-enhancing glasses. (TP-8124CS)



All-In-One™
dye for all oil-based
fluids. 1 oz. bottle.
(TP-3400-0001CS)

Dye-Lite®
dye for all water-
based coolants.
1 oz. bottle.
(TP-3900-0001CS)



Award winner for
*"outstanding achievement
in new product design
and innovation"*



Tracer-Charge™ Kit for A/C Systems

Includes two Tracer-Charge™ single-use aerosol cans – the revolutionary new way to add fluorescent dye and refrigerant to A/C systems! Uses R-134a refrigerant and Fluoro-Lite/P® dye – the only solvent-free dye certified to meet or exceed SAE standard J2297! Hose and complete hardware included. **For R-134a/PAG systems only.** (TP-3822CS)

Tracer-Charge™ single-use
aerosol can containing
Fluoro-Lite® dye and R-134a
refrigerant. (TP-3821-0001CS)

See Sections 1, 2 and 3 for more details about these products

Most Popular and Award-Winning Products

TRACERLINE®

Lamps, Dye Injectors and Fluorescent Dyes

FREE fluorescence-enhancing glasses included with every lamp

TITAN® UV/Blue™ LAMPS

The most powerful leak detection lamps on earth!

Breakthrough, patented dichroic filter lens technology produces up to 30 times more leak detection light!

Powerful & Compact!

TITAN® TP-8200

- Compact, 12-volt lamp
- Very-high intensity, 50-watt instant-on bulb
- Operating range of 3 feet (0.9m) or more



Super-Powerful!

TITAN® TP-8000

- Flashlight size, 12-volt lamp
- Super-high intensity, 100-watt instant-on bulb
- Operating range of 5 feet (1.5m) or more
- Also Available, TITAN® TP-8000H
Same features as TP-8000 lamp, but with 4-foot (1.2m) cord and cigarette lighter plug to connect to rechargeable battery pack, TP-1509



Economical!

TITAN® TP-8100A

- Economy, pivoting-head, 12-volt lamp
- High-intensity, 50-watt instant-on bulb
- Operating range of 2 feet (0.6m) or more
- Winner of *Motor* magazine's Top 20 Tools Award



Most Popular and Award-Winning Products

Most Convenient TITAN® Stinger® TP-8300



**NEW
CORDLESS**

- Powerful
- Cordless compact flashlight with rechargeable NiCad battery
- Brilliant, Xenon-filled, instant-on bulb
- Operating range of 1 foot or more
- Adjustable-focus beam
- Winner of *Professional Tool & Equipment News* magazine's *Innovation Award for 2001*



STANDARD PACKAGE
TITAN® Stinger® TP-8300 flashlight comes standard with wall-mountable charging cradle, 120-volt AC cord (230-volt cord available) and glasses



OPTIONAL ACCESSORY
Holster for the TITAN® Stinger® TP-8300 flashlight with Velcro® closure flap and belt loop



PTEN
Innovation Award

**NEW
PENLIGHT!**

Blue LED

Blue Max™ TP-8600

- Extendable penlight powered by three AAAA alkaline batteries (included)
- Brilliant, instant-on blue LED bulb with 100,000-hour lifetime
- Unique EZ-Reach™ extender (patent pending) extends reach up to 10 1/4" (26cm)
- Ideal for pinpointing leaks in hard-to-reach locations
- *Lifetime warranty*

See Section 1, *Lamps and Lamp Kits*, for more details about these products

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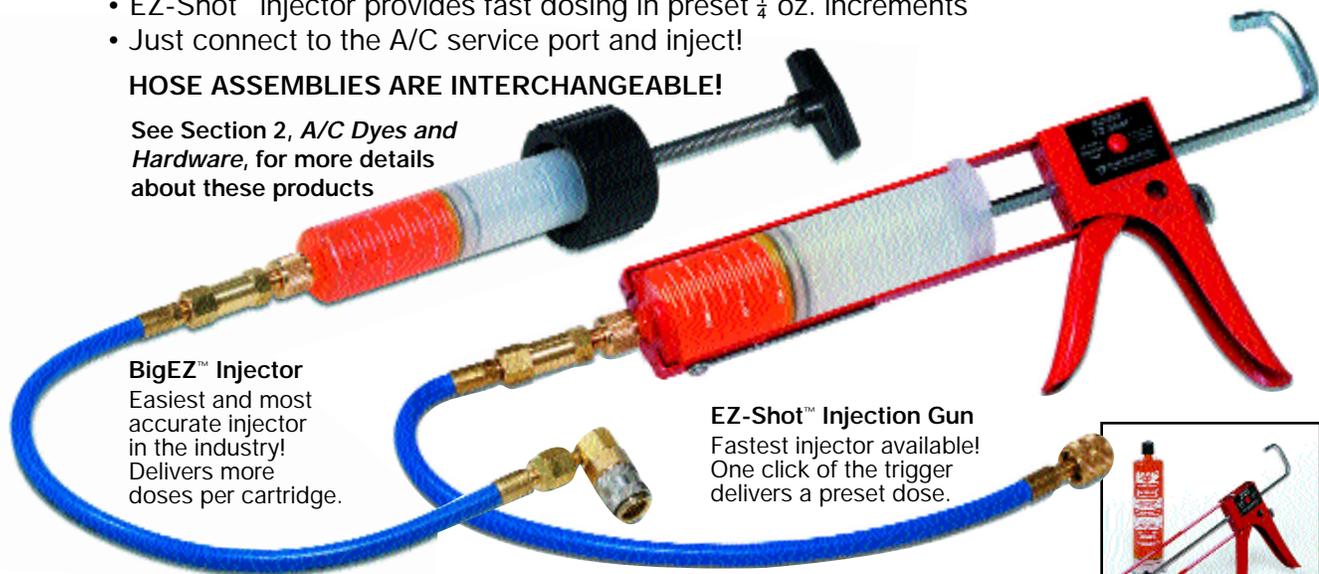
Most Popular and Award-Winning Products

INJECTORS

- Choice of two patented injectors—the BigEZ™ and EZ-Shot™
- Both injectors are designed to accept 4 and 8 oz. BigEZ™ dye cartridges and BigEZ™ oil cartridges
- BigEZ™ injector offers a precise screw metering mechanism to provide smaller doses (as little as $\frac{1}{8}$ oz.) of dye and yield more injections from a BigEZ cartridge—up to 32 doses from a 4 oz. cartridge and up to 64 doses from an 8 oz. cartridge
- EZ-Shot™ injector provides fast dosing in preset $\frac{1}{4}$ oz. increments
- Just connect to the A/C service port and inject!

HOSE ASSEMBLIES ARE INTERCHANGEABLE!

See Section 2, *A/C Dyes and Hardware*, for more details about these products



BigEZ™ Injector
Easiest and most accurate injector in the industry!
Delivers more doses per cartridge.

EZ-Shot™ Injection Gun
Fastest injector available!
One click of the trigger delivers a preset dose.



TP-9742CS
universal kit
or TP-9742CS
R-134a/PAG kit

TP-9790
universal kit



A/C DYES

About Fluoro-Lite® A/C Dyes

- The only brand of A/C leak detection dye that is *factory installed* in new cars and trucks by automakers in the US, Japan, Europe and Korea
- Both universal dye (for all systems) and R-134a/PAG dye are the only *solvent-free* dyes certified to meet or exceed SAE Standard J2297 for R-134a/PAG systems
- The brightest, most concentrated dyes in the industry

SOLVENT FREE!



BigEZ™ Multi-Dose A/C Leak Detection Dye Cartridges

- Fit both Tracerline® BigEZ™ and EZ-Shot™ dye injectors *and* competitors' "caulking-gun" and pump-type (4 oz. cartridges only) injectors including: Spotgun™, Blue-Point® and Viper Eyes™ brands*
- Disposable, calibrated 4 oz. and 8 oz. dye cartridges treat up to 32 and 64 vehicles, respectively
- Choice of three *solvent-free*, OEM-approved dye formulations: universal (for all A/C systems), R-134a/PAG and R-12/mineral oil

See Section 2, *A/C Dyes and Hardware*, for more details about these products

*Trademarks of UView Ultraviolet Systems Inc., Snap-on Inc., and Century Manufacturing Co., respectively.

Most Popular and Award-Winning Products



Tracer-Stick® Single-Dose A/C Leak Detection Dye Capsules (Patented)

- Hookup using either a Universal Connect Set™ (for R-134a/PAG systems) or standard valves, hoses and couplers (for all A/C systems)
- Prefilled, disposable capsules available in four dye concentrations to treat systems from 2.9 lb (1.3kg) to 25 lb (11.3kg) of refrigerant

See Section 2, *A/C Dyes and Hardware*, for more details about these products

A/C OILS



BigEZ™ Multi-Dose A/C Oil Cartridges

- Disposable, calibrated 8 oz. cartridges fit both Tracerline® BigEZ™ and EZ-Shot™ dye injectors and competitors' "caulking-gun" type injectors
- Choice of four viscosities of PAG and one of ester

See Section 2, *A/C Dyes and Hardware*, for more details about these products

FLUID DYES

Dye-Lite® Fluid System Leak Detection Dyes

Available in calibrated 1 oz. and easy-measure 16 oz. and 32 oz. bottles

Dye-Lite® All-In-One™ Dye (Patented)

- For all oil-based fluids

Dye-Lite® Application-Specific Dyes

- For water-based engine coolant, motor oil, fuel, hydraulic fluid, ATF, power steering and auto body water leaks.

See Section 3, *Dyes for Fluid Leaks*, for more details about these products



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Phone: 1-800-641-1133 • 516-333-1254

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1. Tracerline® Lamps



Fluorescence-enhancing glasses included with every lamp



Order Information • Technical Assistance • Customer Service • Authorized Distributors
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Fax: 1-800-354-2353 • 516-876-8411
www.tracerline.com

1. Tracerline® Lamps

Lamps Are Available Three Ways:

Individually. Lamp plus fluorescence-enhancing glasses. See “Lamp Comparison/Selection Guide” that follows. (Dyes, hardware and accessories must be purchased separately.)

Basic Kits. Include: Lamp, glasses, molded impact-resistant plastic carrying case and 8 oz. spray bottle of Glo-Away™ dye cleaner/remover. See “Kit Comparison/Selection Guide” later in this section. (Dyes, hardware and accessories must be purchased separately.)

Complete, Heavy Duty and Special Kits. Include: Lamp, glasses, molded impact-resistant plastic carrying case, 8-oz. spray bottle of Glo-Away™ dye cleaner/remover and selected dyes, hardware and accessories. See “Kit Comparison/Selection Guide” later in this section. (Additional dyes, hardware and accessories may be required and purchased separately depending on applications.)

Lamp Comparison/Selection Guide

Use this guide to select the lamp you need. *One pair of fluorescence-enhancing glasses included with every lamp.*

SPECIFICATIONS	TITAN® UV/BLUE™ Lamps (Patented)				UV Lamp	Cordless Lamps TITAN® UV/Blue™ Blue Penlight	
	TP-8000	TP-8000H	TP-8100A	TP-8200	TP-1600P	TP-8300 [†] Stinger®	TP-8600 Blue Max™
Recommended Uses	All		All except heavy duty	All		All except heavy duty	Light duty
Light Intensity	Highest		High	Very High		Medium	Medium-Low
Bulb Rating	100 watts		50 watts	50 watts	150 watts	6 watts (Xenon-filled)	LED (100,000 hr. life)
Inspection Range* Maximum Recommended	5 ft (1.5m) or more Up to 3 ft (0.9m)		2 ft (0.6m) or more Up to 12 in (30cm)	3 ft (0.9m) or more Up to 18 in (46cm)	5 ft (1.5 m) or more Up to 3 ft (0.9m)	1 ft (0.3m or more) Up to 7 in (18cm)	Approx. 2 in (5cm) Up to 2 in (5cm)
Lamp Style	Flashlight		Pivoting Head	Compact	Spotlamp, pistol grip	Flashlight	Extendable penlight
Operation	Instant-on				5 minute warm-up	Instant-on	
Lamp Head Diameter x Length	3-5/8 x 9 in (9.2 x 22.9cm)		2-3/8 x 10-3/4 in (6 x 26cm)	1-5/8 x 6-3/8 in (4.1 x 16.2cm)	6-3/4 x 10-1/4 in (17.1 x 26cm)	1 5/8 x 7 3/8 in 4.1 x 18.7 cm	5/8" (1.1 cm) max. x 6 5/8" (16.9cm) to 10 1/4" (26cm) max.
Weight	10.5 oz (298gm)		10.6 oz (300gm)	3.9 oz (113gm)	3-1/4 lb. (1.5 kg)	8.7 oz (246gm)	1.4 oz. (40gm)
Cord Length	14 ft (4.3m) with battery clips	4 ft (1.2m) with cigarette lighter plug	10 ft (3m) with battery clips	14 ft (4.3m) with battery clips	8 ft (2.5m) with plug	Cordless	
Power Requirement	12V				120, 230, 240 & 100V	3.6V NiCad battery	3-AAAA batteries
Options/Accessories	None	Battery Pack / Cords [‡]	None	None	20 ft (6.1m) cord	230-, 240- and 100- volt cords also available for charge cradle	None

*Depending on room light levels, as measured from bulb to object.

[†] TP-1509, 12-volt battery pack includes rechargeable battery, 120-volt battery charger and nylon carrying case with shoulder strap or. Also available TP-1517, 1 ft (0.3m) adapter cord with battery clips and/or TP-1518, 12 ft (4.5m) extension cord with cigarette lighter plug and receptacle. (Battery charger is also available in these line voltages: 230V/50Hz, 240V/50Hz and 100V/50-60Hz.)

[‡] TITAN® Stinger® TP-8300 flashlight comes standard with wall-mountable charging cradle, 120-volt AC cord (230-volt cord available) and glasses.

1. Tracerline® Lamp Kits

Basic Lamp Kits



TP-8020

TP-8020H



TP-8220



TP-8120



TP-1620

Heavy Duty Lamp Kit

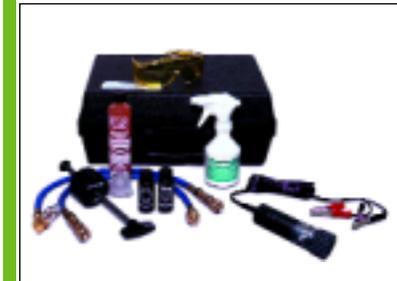


TP-8029H

Complete A/C and Fluid Leak Detection Kits



TP-8025



TP-8225



TP-8125



TP-8122



TP-8123

A/C Only Leak Detection Kits



TP-8026



TP-8226



TP-8126

Special Kit



LeakFinder™ Fluid Leak Kit
Display Packaged
TP-8124CS



FREE
POINT-OF-SALE POSTER
Included with every complete
leak detection kit



19 x 24 in
(48 x 61cm)

1. Tracerline® Lamp Kits

Select a basic lamp kit or one with dyes and hardware included. See “Lamp Comparison/Selection Guide” earlier in this section for complete details of lamps.

(See Sections 3 and 4 for explanation of AC&R dyes and hardware, and fluid dyes.)

LAMP KIT COMPARISON/ SELECTION GUIDE

Basic Lamp Kits

Dyes and A/C dye injection hardware must be ordered separately for these kits.

TP-1620 (includes TP-1600P lamp)
TP-8020 (includes TITAN® TP-8000 lamp)
TP-8020H (includes TITAN® TP-8000H lamp)
TP-8120 (includes TITAN® TP-8100A lamp)
TP-8220 (includes TITAN® TP-8200 lamp)

These kits include:

- Lamp (as specified above)
- Fluorescence-enhancing glasses (TP-9940)
- Plastic carrying/storage case
- 8 oz. spray bottle of GLO-AWAY™ dye cleaner/remover (TP-9000-0008)

Heavy Duty Lamp Kit

Dyes and A/C dye injection hardware must be ordered separately for this kit.

TP-8029H

- TITAN® lamp (TP-8000H)
- Fluorescence-enhancing glasses (TP-9940)
- Plastic storage case (TP-1740)
- 8 oz. spray bottle of GLO-AWAY™ dye cleaner/remover (TP-9000-0008)
- Portable rechargeable battery pack with cigarette lighter plug, 12-volt battery, 120-volt charger* and nylon carrying case with shoulder strap (TP-1509)

*Battery charger is also available in these line voltages: 230V/50Hz, 240V/50Hz and 100V/50-60Hz.

Special Fluid Only Leak Detection Kit

*LeakFinder™ Fluid Only Kit
(Display Packaged)*

TP-8124CS

- TITAN® lamp (TP-8100A)
- Fluorescence-enhancing glasses (TP-9940)
- 1 oz. bottle of Dye-Lite® All-In-One™ dye for all oil-based fluids (TP-3400-0001)
- 1 oz. bottle of Dye-Lite® dye for water-based coolants (TP-3900-0001)
- Underhood labels

A/C Only Leak Detection Kits

These kits, with the EZ-Shot™ dye injector, include everything needed for A/C only leak detection (LOW-SIDE injection).

TP-8026 (includes TITAN® TP-8000 lamp)
TP-8226 (includes TITAN® TP-8200 lamp)
TP-8126 (includes TITAN® TP-8100A lamp)

These kits include:

- TITAN® lamp (as specified above)
- Fluorescence-enhancing glasses (TP-9940)
- EZ-Shot™ A/C dye injector with hoses and couplers
- 8 oz. BigEZ™ dye cartridge of Fluoro-Lite® universal A/C dye for all systems (TP-9770-0108)
- 8 oz. spray bottle of GLO-AWAY™ dye cleaner/remover (TP-9000-0008)
- Molded plastic carrying/storage case (TP-1740)
- Underhood labels

Complete A/C and Fluid Leak Detection Kits

These kits, with the BigEZ™ dye injector, include everything needed for complete A/C and fluid leak detection (LOW-SIDE injection).

TP-8025 (includes TITAN® TP-8000A lamp)
TP-8225 (includes TITAN® TP-8200 lamp)
TP-8125 (includes TITAN® TP-8100A lamp)

These kits include:

- TITAN® lamp (as specified above)
- Fluorescence-enhancing glasses (TP-9940)
- BigEZ™ A/C dye injector assembly with hoses and couplers
- 4 oz. BigEZ dye cartridge of Fluoro-Lite® universal A/C dye for all systems (TP-9770-0004)
- 1 oz. bottle of Dye-Lite® All-In-One® dye for all oil-based fluids (TP-3400-0001)
- 1 oz. bottle of Dye-Lite® dye for water-based coolants (TP-3900-0001)
- 8 oz. spray bottle of GLO-AWAY™ dye cleaner/remover (TP-9000-0008)
- Molded plastic carrying/storage case (TP-1740)
- Underhood labels

This kit, with a refillable dye injector, includes everything needed for complete A/C and fluid leak detection (LOW-SIDE injection).

TP-8122 (includes TITAN® TP-8100A lamp)

- TITAN® lamp (TP-8100A)
- Fluorescence-enhancing glasses (TP-9940)
- Refillable A/C dye injector with hoses and quick couplers for all systems (TP-9880)
- 2 - 1 oz. bottles of universal A/C dye (TP-3840-0001)
- 1 oz. bottle of All-In-One™ dye for all oil based fluids (TP-3400-0001)
- 1 oz. bottle of Dye-Lite® dye for water-based coolants (TP-3900-0001)
- 8 oz. spray bottle of GLO-AWAY™ dye cleaner/remover (TP-9000-0008)
- Molded plastic carrying/storage case (TP-1740)
- Underhood labels

This kit, with the Tracer-Charge™ dye injection system, includes everything needed for complete A/C and fluid leak detection of R-134a/PAG systems only (LOW-SIDE injection).

TP-8123 (includes TITAN® TP-8100A lamp)

- TITAN® lamp (TP-8100A)
- Fluorescence-enhancing glasses (TP-9940)
- 1 oz. bottle of Dye-Lite® All-In-One™ dye for all oil-based fluids (TP-3400-0001)
- 1 oz. bottle of Dye-Lite® dye for water-based coolants (TP-3900-0001)
- 8 oz. spray bottle of GLO-AWAY™ dye cleaner/remover (TP-9000-0008)
- Carrying case (TP-1740)
- Tracer-Charge™ A/C starter pack (TP-3822) includes:
 - 6 Tracer-Charge™ cans (TP-3821)
 - Piercing valve and hose with check-valve assembly (TP-3823)
 - Quick coupler for R-134a/PAG systems (TP-3888)
- Underhood labels

2. Dyes, Oils & Hardware for AC&R Systems

Dye and Hardware Comparison/Selection Guide

Select the dye(s) and injection method you need based on the description, refrigerant, system size and other factors in this guide. Then go to the injection method heading for the method that you have selected for hookup diagram and hardware and dye product numbers.

All dyes, dye packs and leak detection kits include underhood labels.

Method	 A BigEZ™ Cartridges, BigEZ™ and EZ-Shot™ Injectors	 B Tracer-Charge™ Cans and Piercing Valve/Hose/Coupler	 C Tracer-Stick® Capsules and Universal Connect Set™ or Standard Hardware	 D Bottled Dyes and Injectors
Description	Fast, easy, economical Large size, multi-dose, prefilled, disposable dye cartridges (4 and 8 oz.)	Fast, easy Single-dose, dye and refrigerant in disposable cans	Easy Single-dose, prefilled, disposable dye capsules	Economical Bottled dyes used with refillable injectors
For these refrigerants	All	R-134a/PAG <u>only</u>	All	All
For this system size	Up to 32 cars (4 oz.) or 64 cars (8 oz.) with up to 2 lbs (0.9kg) of refrigerant or 5 fl oz. (150 ml) lubricant each	1 standard-size car with up to 3 lbs. (1.4 kg) of refrigerant or 10 fl oz. ((300 ml) of lubricant	Up to 25 lbs. (11.3 kg) of refrigerant or 2 gal. (7.6L) of lubricant	1 standard-size car with up to 3 lbs (1.4 kg) of refrigerant or 10 fl oz. (300 ml) of lubricant
Use this dose	1 cartridge (4 or 8 oz.)	1 can	Selection Guide, Section 2, C	1/4 oz. (7.5 ml) Section 2, D
For larger systems	Larger dose or multiple cartridges required	Multiple cans required	Larger size or multiple capsules required	Extension set for injector or multiple injections required
Dye types available	Universal (for <u>all</u> refrigerants), R-12 and R-134a	R-134a/PAG <u>only</u>	Universal (for <u>all</u> refrigerants), R-12 and R-134a	Universal (for <u>all</u> refrigerants), R-12 and R-134a
Dye available in	Individual 4 and 8 oz. cartridges	12 packs of 1.7 fl oz. cans	Four dye concentrations	6-packs of 1 oz. bottles, single 16 and 32 oz. bottles
Hardware required	BigEZ or EZ-Shot Injector with hoses and couplers	Piercing valve with hose and coupler or standard valves with hoses and couplers	Universal Connect Set™ (R-134a systems only)	Dye injectors with hoses and couplers Optional: Extension Set
Kits/packs available	BigEZ/TITAN® and EZ-Shot/TITAN® kits, BigEZ™ universal and R-134a/PAG kits, and EZ-Shot™ universal kit	TP-8123 kit, LeakFinder™ A/C kit and Tracer-Charge™ starter pack	Tracer-Stick® capsule starter packs	TP-8122 kit

2. Dyes, Oils & Hardware for AC&R Systems

A. BigEZ™ Multi-Dose Dye and Oil Cartridges and Hardware (BigEZ™ and EZ-Shot™ Injectors)

Service multiple systems with just one connection per system.

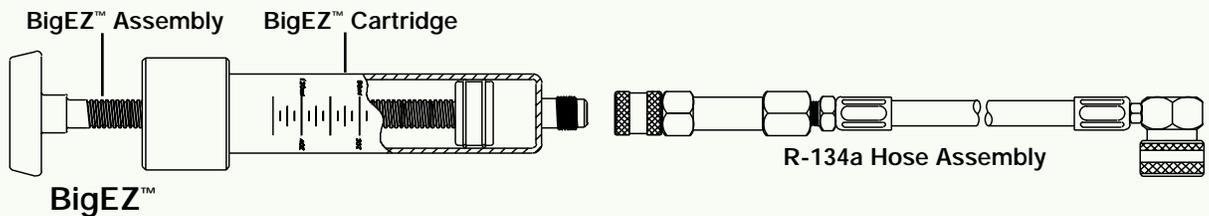
Patented BigEZ™ or EZ-Shot™ injectors, dye cartridge and hose with quick coupler easily connect to a vehicle's A/C system. Hoses with LOW-SIDE and HIGH-SIDE couplers available.

4 and 8 oz. A/C dye cartridges contain enough dye to treat up to 32 and 64 vehicle A/C systems, respectively.

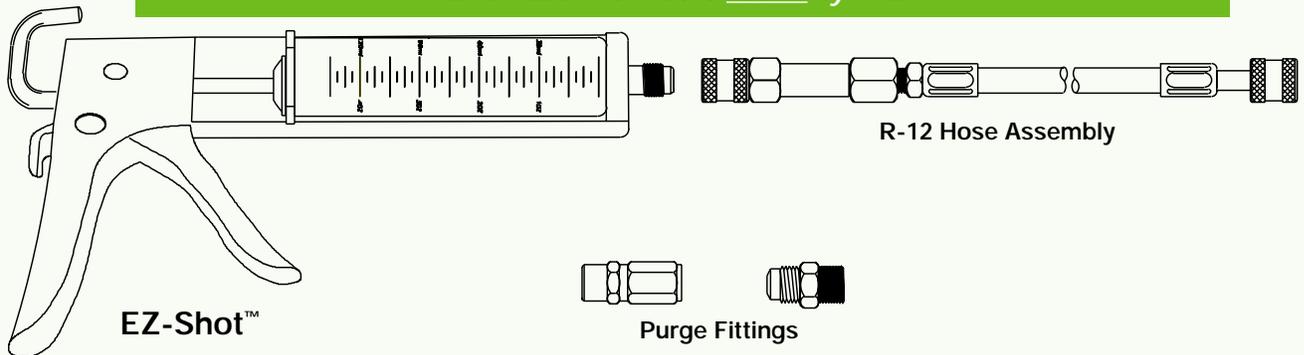
8 oz. BigEZ™ A/C oil cartridges are available in four viscosities of PAG and one of ester.

HOOKUP, HARDWARE, DYE AND HARDWARE KITS AND CARTRIDGES

Hookup diagrams for BigEZ™ and EZ-Shot™ Multi-Dose Injectors with BigEZ™ Cartridge



BigEZ™ and EZ-Shot™ hose assemblies and couplers are interchangeable and can be used for either system!



BigEZ™ Cartridge Hookup



For these 4 and 8 oz. BigEZ™ Cartridges	With these Systems	Use this Hose (Coupler Included)		Connections
		LOW SIDE	HIGH SIDE	
All TP-9750 (R-12/mineral oil)	R-12/mineral oil	TP-9746	TP-9846*	TP-9746 (1/4" flare)
All TP-9760 (R-134a/PAG)	R-134a/PAG	TP-9747	TP-9748	TP-9747 (SAE LOW SIDE)
All TP-9770 (universal/ester)	R-12/mineral oil	TP-9746	TP-9846*	TP-9748 (SAE HIGH SIDE)
	R-134a/PAG and R-134a/ester	TP-9747	TP-9748	

*Use any standard R-12 HIGH-SIDE adapter for high-side injection.

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2. Dyes, Oils & Hardware for AC&R Systems



EZ-Shot™ Multi-Dose Dye Injector Kit

Complete kit includes the EZ-Shot™ injector, 8 oz. BigEZ™ universal dye cartridge, and hoses with quick couplers for LOW-SIDE injection for all refrigerant systems.

WHAT TO ORDER	
Product Number	Description
<i>Kit includes underhood label.</i>	
TP-9790	1 - TP-9749 EZ-Shot™ Injector 1 - TP-9770-0108 8 oz. BigEZ™ multi-dose cartridge with universal dye for <u>all</u> refrigerant systems 1 - TP-9747 injection hose with LOW-SIDE quick coupler for connection to R-134a/PAG systems 1 - TP-9746 injection hose with LOW-SIDE quick coupler for connection to R-12/mineral oil systems

* Use any standard R-12 HIGH-SIDE adapter for high-side injection.

BigEZ™ Multi-Dose Dye Injector Kits

Complete kits include the BigEZ™ assembly, 4 oz. dye cartridge, and choice of hose(s) with quick coupler(s). LOW-SIDE and HIGH-SIDE kits available for R-134a/PAG systems and universal dye for all refrigerants.

LOW SIDE kits are available in full-color, clear plastic hanging clamshell display packages. ("CS" suffix in product number)



TP-9741CS



TP-9742CS



TP-9743



TP-9744

WHAT TO ORDER	
Product Number	Description
<i>All kits include underhood labels.</i>	
TP-9741 or TP-9741CS	LeakFinder™ BigEZ™ Kit (for <u>LOW-SIDE</u> injection of R-134a systems only) 1 - TP-9745 BigEZ™ assembly 1 - TP-9760-0004 4 oz. BigEZ™ multi-dose cartridge for R-134a/PAG systems 1 - TP-9747 injection hose with LOW-SIDE quick coupler for connection to R-134a/PAG systems
TP-9742 or TP-9742CS	LeakFinder™ BigEZ™ Kit (universal for <u>LOW-SIDE*</u> injection of R-12 and R-134a systems) 1 - TP-9745 BigEZ™ assembly 1 - TP-9770-0004 4 oz. BigEZ™ multi-dose cartridge with universal dye for <u>all</u> refrigerant systems 1 - TP-9747 injection hose with LOW-SIDE quick coupler for connection to R-134a/PAG systems 1 - TP-9746 injection hose with LOW-SIDE* quick coupler for connection to R-12/mineral oil systems
TP-9743	R-134a/PAG BigEZ™ Kit (for <u>HIGH-SIDE</u> injection of R-134a systems only) 1 - TP-9745 BigEZ™ assembly 1 - TP-9760-0004 4 oz. BigEZ™ multi-dose cartridge for R-134a/PAG systems 1 - TP-9748 injection hose with HIGH-SIDE quick coupler for R-134a/PAG systems
TP-9744	Universal BigEZ™ Kit (universal for <u>HIGH-SIDE</u> injection of R-134a systems and <u>LOW-SIDE*</u> injection of R-12 systems) 1 - TP-9745 BigEZ™ assembly 1 - TP-9770-0004 4 oz. BigEZ™ multi-dose cartridge with universal dye for <u>all</u> refrigerant systems 1 - TP-9746 injection hose with LOW-SIDE* quick coupler for connection to R-12/mineral oil systems 1 - TP-9748 Injection hose with HIGH-SIDE quick coupler for R-134a/PAG systems

*Use any standard R-12 HIGH-SIDE adapter for high-side injection.

BigEZ™ Multi-Dose Dye and Oil Cartridges



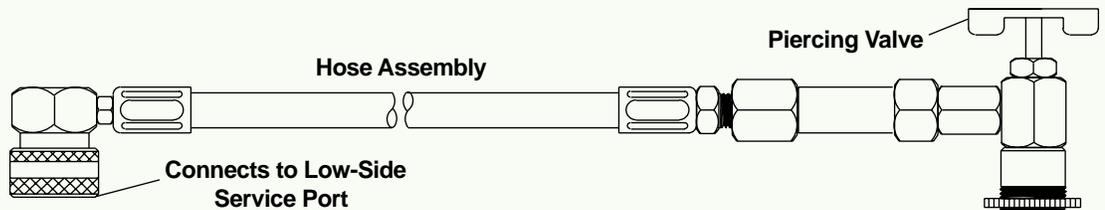
WHAT TO ORDER		Product Number	Description
DYE CARTRIDGES 4 and 8 oz.	Dye for R-12/Mineral Oil Systems	TP-9750-0004CS	1 - 4 oz. dye cartridge
		TP-9750-0108	1 - 8 oz. dye cartridge
	Dye for R-134a/PAG Systems	TP-9760-0004CS	1 - 4 oz. dye cartridge
		TP-9760-0108	1 - 8 oz. dye cartridge
	Universal Dye (Compatible with <u>All</u> Lubricants and Refrigerants)	TP-9770-0004CS	1 - 4 oz. dye cartridge
		TP-9770-0108	1 - 8 oz. dye cartridge
OIL CARTRIDGES 8 oz. only	PAG Oil	TP-9761-0108	1 - 8 oz. oil cartridge - 46 cSt viscosity
		TP-9762-0108	1 - 8 oz. oil cartridge - 100 cSt viscosity
		TP-9763-0108	1 - 8 oz. oil cartridge - 125 cSt viscosity
		TP-9764-0108	1 - 8 oz. oil cartridge - 150 cSt viscosity
	Ester Oil	TP-9771-0108	1 - 8 oz. oil cartridge - 100 cSt viscosity

2. Dyes, Oils & Hardware for AC&R Systems

B. Tracer-Charge™ Aerosol Dye Cans and Hardware

(Available in the continental U.S. only - except states where prohibited by law)

HOOKUP, HARDWARE AND STARTER PACK



Hookup diagram for connection of Tracer-Charge™ can with piercing valve/hose/check valve assembly

For use with R-134a/PAG systems only.

Each Tracer-Charge™ can contains R-134a refrigerant and Fluoro-Lite/P® fluorescent leak detection dye. One 1.7 fl. oz. can treats a full-size car A/C system [up to 3 lbs. (1.4 kg) of R-134a refrigerant or 10 fl. oz. (300 ml) of PAG lubricant].

Tracer-Charge™ Starter Pack

Pack includes everything needed to inject dye and refrigerant into R-134a/PAG A/C systems

Product Number	WHAT TO ORDER Description
TP-3822	Tracer-Charge™ Starter Pack 6 - TP-3821 1.7 fl. oz. Tracer-Charge aerosol cans 1 - TP-3823 piercing valve and hose with check valve assembly 1 - TP-3888 quick coupler for R-134a/PAG systems Underhood labels



TP-3822CS

LeakFinder™ A/C Leak Detection Kit with Tracer-Charge™

Product Number	WHAT TO ORDER Description
TP-3822CS	Tracer-Charge™ Starter Pack (<i>Display Packaged</i>) 2 - TP-3821 1.7 fl. oz. Tracer-Charge™ aerosol cans 1 - 118692 hose, piercing valve, coupler and safety check valve assembly Underhood labels



TP-3821-0001CS

Tracer-Charge™ Aerosol Cans

Product Number	WHAT TO ORDER Description
TP-3821-0001CS	Tracer-Charge™ Single Can (<i>Display Packaged</i>) 1 - 1.7 fl. oz. TP-3821 Tracer-Charge™ aerosol can Underhood label
TP-3821-1201	Tracer-Charge™ 12 Pack 12 - 1.7 fl. oz. TP-3821 Tracer-Charge™ aerosol cans Underhood labels



TP-3821-1201

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2. Dyes, Oils & Hardware for AC&R Systems

C. Tracer-Stick® Single-Dose Dye Capsules, Universal Connect Set™ and Standard Hardware

HOOKUP, HARDWARE, STARTER PACKS AND TRACER-STICK® CAPSULES
Choose the hardware you need according to whether SMALL CAPSULES (0.03 and 0.06 oz) or LARGE CAPSULES (0.5 oz) are used.



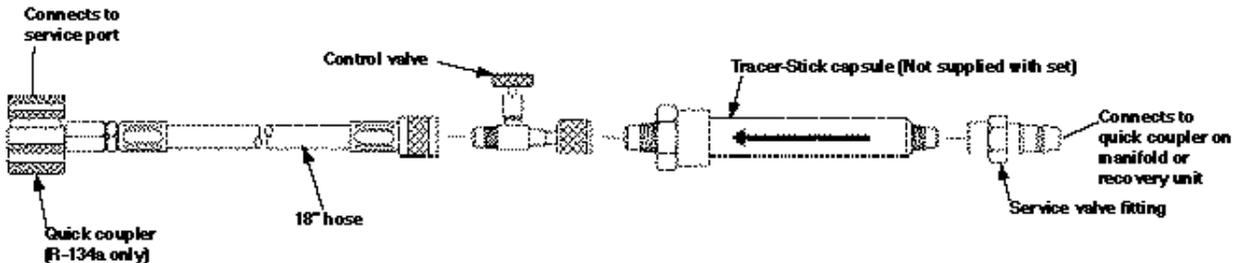
For R-134a systems only: There are two ways to hook up Tracer-Stick® capsules to add Fluoro-Lite® dye —

1. A Universal Connect Set™ provides the easiest hookup method. Choose either LOW-SIDE or HIGH-SIDE connect set, or
2. Control valves and hose with quick coupler.

For all AC&R systems:

Use hose with control valves and quick coupler.

Hookup diagram for Universal Connect Set™ with Tracer-Stick® capsules for R-134a systems only



UNIVERSAL CONNECT SET™ HOOKUP — FOR R-134a SYSTEMS ONLY

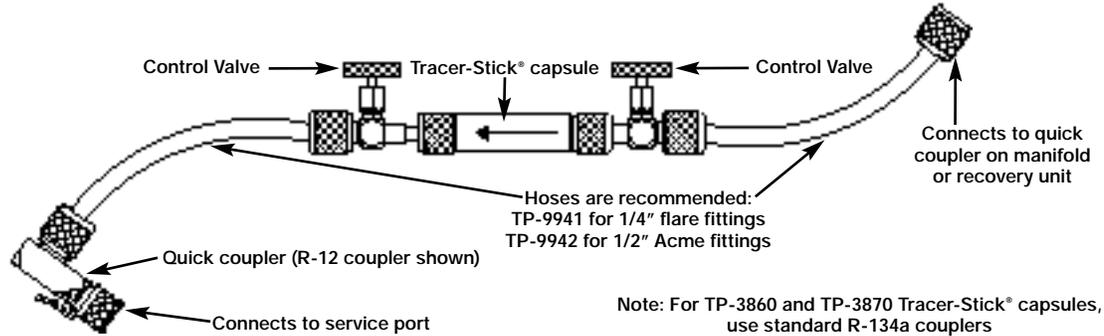
For these Tracer-Stick® Capsules	With these Systems	Use this Universal Connect Set™ for		Connections
		LOW SIDE	HIGH SIDE	
TP-3860 (small capsule)	R-134a/PAG	TP-3887	TP-9887	TP-3837 and TP-3887 (SAE LOW SIDE)
TP-3870 (small capsule)	R-134a/ester or PAG			
TP-3865, TP-3866 and TP-3867	R-134a/PAG	TP-3837	TP-9837	TP-9837 and TP-9887 (SAE HIGH SIDE)
TP-3875, TP-3876 and TP-3877	R-134a/ester or PAG			

UNIVERSAL CONNECT SETS™ FOR TRACER-STICK® CAPSULES — FOR R-134a SYSTEMS ONLY

WHAT TO ORDER	
Product Number	Description
TP-3837	Universal Connect Set for LOW-SIDE connection of large capsules Includes: TP-9946 hose, TP-3888 coupler, TP-3838 fitting, TP-3851 valve
TP-3887	Universal Connect Set for LOW-SIDE connection of small capsules Includes: TP-9947 hose, TP-3888 coupler, TP-3889 fitting, TP-3861 valve
TP-9837	Universal Connect Set for HIGH-SIDE connection of large capsules Includes: TP-9946 hose, TP-9888 coupler, TP-9838 fitting, TP-3851 valve
TP-9887	Universal Connect Set for HIGH-SIDE connection of small capsules Includes: TP-9947 hose, TP-9888 coupler, TP-9889 fitting, TP-3861 valve

2. Dyes, Oils & Hardware for AC&R Systems

VALVE, HOSE AND QUICK COUPLER HOOKUP-FOR TRACER-STICK® CAPSULES FOR ALL SYSTEMS



For These Tracer-Stick® Capsules	With These Systems	Use These: Hose	WHAT TO ORDER LOW-SIDE* Coupler	Valves (2 required)	Hose Connections
TP-3850 (small capsule), TP-3855, TP-3856, TP-3857	R-12	TP-9941	TP-3852*	TP-3851	1/4" flare
TP-3860 (small capsule)	R-134a/PAG	Use Universal Connect Set™ TP-3887 or TP-9887			
P-3865, TP-3866, TP-3867	R-134a/PAG	Use Universal Connect Set™ TP-3837 or TP-9837			
TP-3870 (small capsule)	R-134a/PAG and ester	Use Universal Connect Set™ TP-3887 or TP-9887			
TP-3870 (small capsule)	R-12	TP-9941	TP-3852*	TP-3872	1/4" flare
TP-3875, TP-3876, TP-3877	R-134a/PAG and ester	Use Universal Connect Set™ TP-3837 or TP-9837			
TP-3875, TP-3876, TP-3877	R-12	TP-9941	TP-3852*	TP-3851	1/4" flare
TP-3890 (small capsule), TP-3895, TP-3896, TP-3897	Alkyl benzene	TP-9941	TP-3852	TP-3851	1/4" flare

*Use any standard R-12 HIGH-SIDE adapter for high-side injection.

Tracer-Stick® Capsule Starter Packs

Each pack includes either a Universal Connect Set™ (for R-134a systems) or a hose with connection/control valves (for other refrigerant systems). An easy way to complete basic lamp kits.

WHAT TO ORDER		
Product Number	Description	Connections
TP-3853A	Dye for R-12/Mineral Oil Systems 6 - 0.03 oz TP-3850 Tracer-Stick® capsules 2 - TP-3851 control valves 1 - TP-3852 LOW-SIDE* quick coupler 1 - TP-9941 hose	1/4" flare
TP-3863	Dye for R-134a/PAG Systems 6 - 0.06 oz TP-3860 Tracer-Stick® capsules 1 - TP-3887 Universal Connect Set™ for LOW SIDE connection	1/2" Acme
TP-3873	Dye for R-134a Universal (Ester) 6 - 0.06 oz TP-3870 Tracer-Stick® capsules 1 - TP-3887 Universal Connect Set™ for LOW SIDE connection	1/2" Acme
TP-3893	Dye for Alkyl Benzene Systems 6 - 0.03 oz TP-3890 Tracer-Stick® capsules 2 - TP-3851 control valves 1 - TP-9941 hose	1/4" flare



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2. Dyes, Oils & Hardware for AC&R Systems

Tracer-Stick® Capsules

Tracer-Stick® capsules provide a fast, easy and clean way to add a single dose of Fluoro-Lite® dye to an air-conditioning or refrigeration system.

Disposable capsules come *prefilled* with a *premeasured* dose of dye suited to the type and amount of refrigerant/lubricant in a system (use multiple capsules for larger systems).

Capsules are easy to connect with standard hardware or the Universal Connect Set™ for R-134a systems.



Four dye concentrations available

Tracer-Stick® Capsule 2-Step Selection Guide

1. Read across and choose the column with the amount of Refrigerant/Lubricant for the system. Use multiple Tracer-Stick® capsules for larger systems.

	US	Metric	US	Metric	US	Metric	US	Metric
Amount of Refrigerant	Up to 2.9 lb	Up to 1.3 kg	3 to 4.9 lb	1.4 to 2.2 kg	5 to 9.9 lb	2.3 to 4.5 kg	10 to 25 lb	4.6 to 11.3 kg
Amount of Lubricant	Up to 15 fl. oz.	Up to 450 ml	1 pt to 1.6 qt	0.5 to 1.5L	1.7 to 3.2 qt	1.6 to 3.0 L	3.3 qt to 2 gal	3.1 to 7.6 L
Typical Vehicle Type	Passenger Cars		Vans Small Trucks		Large Trucks Small Buses		Full-Size Buses Refrigerated Freight	

2. Then read down that column and choose the Tracer-Stick® capsule part number below that is across from the lubricant type in the system. (If lubricant type is not known, Tracer-Stick® capsules for ester systems are compatible with all other lubricants.)

Lubricant Type	Small Capsules	Large Capsules		
Mineral Oil	TP-3850	TP-3855	TP-3856	TP-3857
PAG	TP-3860	TP-3865	TP-3866	TP-3867
Universal (Ester)	TP-3870	TP-3875	TP-3876	TP-3877
Alkyl Benzene	TP-3890	TP-3895	TP-3896	TP-3897

TRACER-STICK® CAPSULES FOR AC&R SYSTEMS

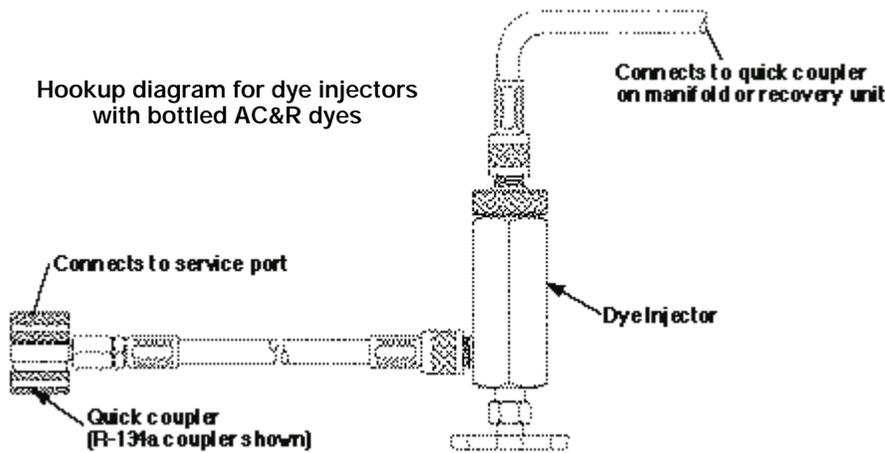
WHAT TO ORDER	
Product Number	Description
R-12/Mineral Oil Systems	
TP-3850-0601	6 - 0.03 oz. capsules
TP-3850-0601/M24	Master Pack, 144 capsules
TP-3855-0601	6 - 0.5 oz. capsules
TP-3856-0601	6 - 0.5 oz. capsules
TP-3857-0601	6 - 0.5 oz. capsules
R-134a/PAG Systems	
TP-3860-0601	6 - 0.06 oz capsules
TP-3860-0601/M24	Master Pack, 144 capsules
TP-3865-0601	6 - 0.5 oz. capsules
TP-3866-0601	6 - 0.5 oz. capsules
TP-3867-0601	6 - 0.5 oz. capsules

WHAT TO ORDER	
Product Number	Description
Universal (Ester) - for All Systems	
TP-3870-0601	6 - 0.06 oz. capsules
TP-3870-0601/M24	Master Pack, 144 capsules
TP-3875-0601	6 - 0.5 oz. capsules
TP-3876-0601	6 - 0.5 oz. capsules
TP-3877-0601	6 - 0.5 oz. capsules
Alkyl Benzene Systems	
TP-3890-0601	6 - 0.03 oz. capsules
TP-3895-0601	6 - 0.5 oz. capsules
TP-3896-0601	6 - 0.5 oz. capsules
TP-3897-0601	6 - 0.5 oz. capsules

2. Dyes, Oils & Hardware for AC&R Systems

D. Bottled Dyes and Dye Injectors

HOOKUP, HARDWARE, DYE INJECTOR PACKS AND BOTTLED DYES



Dye Injectors

A Tracerline® dye injector is required to add Fluoro-Lite® bottled dye to an air-conditioning or refrigeration system.

To increase the capacity of a dye injector from 1/4 oz. (recommended for passenger cars) up to a maximum of 2 oz. (in 1/4 oz. increments) for larger AC&R systems, use the TP-3885 extension kit.

For these Bottled Dyes (Systems)	Use this Dye Injector	Connection
TP-3820 (R-134a/PAG)	TP-3886A	SAE LOW SIDE (R-134a) with quick coupler
TP-3840 UNIVERSAL (R-134a/ester)		
TP-3830 (R-12/mineral oil)	TP-3880	1/4" flare with LOW-SIDE quick coupler*
TP-3845 (alkyl benzene)		
All dyes and systems	TP-9880	1/2" Acme and 1/4" flare. Both with LOW-SIDE quick couplers

*Use any standard R-12 HIGH-SIDE adapter for high-side injection.

Product Number	Description	WHAT TO ORDER
TP-3852	Quick coupler* (LOW SIDE 1/4" flare connections) for TP-3880 and TP-9880 dye injectors and TP-9937 hose	
TP-3880	A/C dye injector (1/4 oz. capacity) with endcap fitting, hose and LOW-SIDE* quick coupler for R-12, R-22, R-502/mineral oil and alkyl benzene systems.	
TP-3885	Extension set increases the capacity of TP-3880, TP-3886A and TP-9880 dye injectors from 1/4 oz. to 2 oz. in 1/4-oz. increments	
TP-3886A	A/C dye injector (1/4 oz. capacity) with hose and quick coupler for R-134a/PAG and ester systems	
TP-3888	Quick coupler (LOW SIDE, R-134a only) for TP-3886A and TP-9880 dye injectors and TP-9947 hose	
TP-9937	Hose with 1/4" flare fittings — for TP-3880 and TP-9880 dye injectors	
TP-9880	A/C dye injector (1/4 oz. capacity) with hoses and quick couplers for all systems	
TP-9888	Quick coupler (HIGH SIDE, R-134a only) for TP-3886A and TP-9880 dye injectors and TP-9947 hose	
TP-9947	Hose with 1/2" Acme fittings — for TP-3886A and TP-9880 dye injectors	

*Use any standard R-12 HIGH-SIDE adapter for high-side injection.

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2. Dyes, Oils & Hardware for AC&R Systems

Fluoro-Lite® Bottled Dyes

Reminder: Adding bottled dye to AC&R systems requires injection hardware and accessories.

SUGGESTED DILUTION RATIOS

Refrigerant/Lubricant	Product Number	Passenger Car		Larger AC&R Systems	
		US	Metric	US	Metric
R-134a/PAG	TP-3820	1/4 oz. for all	7.6 ml for all	1/4 oz. per 3 lbs of refrigerant OR 1/4 oz. per 10 oz. of lubricant	7.5 ml per 1 kg of refrigerant OR 7.5 ml per 300 ml of lubricant
R-12/Mineral Oil	TP-3830				
Universal (Ester) - for <u>All</u> Systems	TP-3840				
Alkyl Benzene	TP-3845				

WHAT TO ORDER		WHAT TO ORDER	
Product Number	Description	Product Number	Description
For R-134a/PAG Systems		Universal (Ester) - for <u>All</u> Systems	
TP-3820-0601	6 - 1 oz. bottles	TP-3840-0601	6 - 1 oz. bottles
TP-3820-0016	1 - 16 oz. bottle	TP-3840-0016	1 - 16 oz. bottle
TP-3820-0032	1 - 32 oz. bottle	TP-3840-0032	1 - 32 oz. bottle
TP-3820-0601/M24	Master Pack, 144 — 1 oz. bottles	TP-3840-0601/M24	Master Pack, 144 — 1 oz. bottles
For R-12/Mineral Oil Systems		For Alkyl Benzene Systems	
TP-3830-0601	6 - 1 oz. bottles	TP-3845-0601	6 - 1 oz. bottles
TP-3830-0016	1 - 16 oz. bottle	TP-3845-0016	1 - 16 oz. bottle
TP-3830-0032	1 - 32 oz. bottle	TP-3845-0032	1 - 32 oz. bottle
TP-3830-0601/M24	Master Pack, 144 — 1 oz. bottles		

Fluoro-Lite® Bottled Dye Injector Packs

Fluoro-Lite® bottled dye injector packs provide an easy way to order dye and hardware for a specific refrigerant/lubricant. Each injector pack includes six 1 oz. bottles of dye, a dye injector and hose assembly.



WHAT TO ORDER	
Product Number	Description
TP-3815	For R-134a/PAG Systems 6 - 1 oz. bottles of TP-3820 1 TP-3886A A/C dye injector with hose and quick coupler
TP-3816	For R-12/Mineral Oil Systems 6 - 1 oz. bottles of TP-3830 1 TP-3880 A/C dye injector with hose
TP-3817	Universal (Ester) - for All Systems 6 - 1 oz. bottles of TP-3840 1 TP-3886A A/C dye injector with hose and quick coupler
TP-3818	For Alkyl Benzene Systems 6 - 1 oz. bottles of TP-3845 1 TP-3880 A/C dye injector with hose

3. Fluorescent Dyes for Fluid Leaks

Dye-Lite® All-In-One™ Full-Spectrum Dye (TP-3400)

Patented dye for all oil-based fluids

Dye fluoresces yellow-green under both ultraviolet and blue light.

1, 16 and 32 oz. bottles. Larger sizes available (see price list).

1 oz. bottles marked in 1/4 oz. increments for easy pour and measure.



FLUID	HOW MUCH TO USE		WHAT TO ORDER	
	US	Metric	Product Number	Description
Engine Oil (Includes Synthetics) - Gasoline Diesel	1/2 oz. per 4-6 qt	15 ml per 3.8-5.7 L	TP-3400-0001CS	1 — 1 oz. bottle <i>(display packaged)</i>
	1/2 oz. per 4 qt	15 ml per 3.8 L	TP-3400-0601	6 — 1 oz. bottles
Power Steering	1/2 oz. per 4 qt	15 ml per 3.8 L	TP-3400-2401	24 — 1 oz. bottles
Automatic Transmission	1 oz. per 12 qt	30 ml per 11.4 L	TP-3400-0016	1 — 16 oz. bottle
Fuel (Gasoline and Diesel)	1 oz. per 12-18 gal	30 ml per 45.4-68.1 L	TP-3400-0032	1 — 32 oz. bottle
Hydraulics (Petroleum-Based) Light- to Medium-Colored Very Dark or Intensely Blue	1 oz. per 4-6 gal	30 ml per 15-22.7 L	TP-3400-0601/M24	Master Pack 144 — 1 oz. bottles
	1 oz. per 4-6 qt	30 ml per 3.8-5.7 L	TP-3400-2401/M12	Master Pack 288 — 1 oz. bottles

Dye-Lite® Application-Specific Dyes

For specific oil- and water-based fluids

Dyes in 1 oz. bottles also available in 144 and 288 bottle Master Packs (these product numbers end in -0601/M24 and -2401/M12, respectively).



FLUID Oil-Based	HOW MUCH TO USE		WHAT TO ORDER		Fluorescent Color
	US 1 oz. per	Metric 30 ml per	Product Number	Description	
Gasoline Engine Oil	4 to 5 qt	3.8 to 4.7 L	TP-3090-0601	6 — 1 oz. bottles	Yellow/ Green
			TP-3090-2401	24 — 1 oz. bottles	
			TP-3090-0016	1 — 16 oz. bottle	
			TP-3090-0032	1 — 32 oz. bottle	
Diesel Engine Oil	4 to 5 qt	3.8 to 4.7 L	TP-3100-0601	6 — 1 oz. bottles	Yellow/ Green
			TP-3100-2401	24 — 1 oz. bottles	
			TP-3100-0016	1 — 16 oz. bottle	
			TP-3100-0032	1 — 32 oz. bottle	
Fuel (Gasoline and Diesel)	2 gal	7.6 L	TP-3700-0601	6 — 1 oz. bottles	Yellow/ Green
			TP-3700-2401	24 — 1 oz. bottles	
			TP-3700-0016	1 — 16 oz. bottle	
			TP-3700-0032	1 — 32 oz. bottle	
Automatic Transmission/ Power Steering	6 qt	5.7 L	TP-3200-0601	6 — 1 oz. bottles	Yellow/ Green
			TP-3200-2401	24 — 1 oz. bottles	
			TP-3200-0016	1 — 16 oz. bottle	
			TP-3200-0032	1 — 32 oz. bottle	
Hydraulics and Oils Petroleum-Based (Light) Hydraulic Compressor	4 to 6 gal 1 gal	15 to 22.7 L 3.8 L	TP-3350-0016	1 — 16 oz. bottle	Yellow/ Green
			TP-3350-0032	1 — 32 oz. bottle	
			TP-3350-0100	1 — 1 gal pail	

Chart continues on page 24

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3. Fluorescent Dyes for Fluid Leaks

Dye-Lite® Application-Specific Dyes (continued)

FLUID Oil-Based	HOW MUCH TO USE		WHAT TO ORDER		Fluorescent Color	
	US 1 oz. per	Metric 30 ml per	Product Number	Description		
Hydraulics and Oils Petroleum-Based (Dark)	Hydraulic	4 to 6 gal	15 to 22.7 L		Yellow/ Green	
	Engine Oil	1 gal	3.8 L	TP-3375-0016		1 — 16 oz. bottle
	Gearbox Oil	2 qt	1.9 L	TP-3375-0032		1 — 32 oz. bottle
	Lubrication Oil	1 gal	3.8 L			
	Fuel (Gasoline or Diesel)	10 gal	37.9 L			
Synthetic (Ester)-Based	4 to 6 gal	15 to 22.7 L	TP-3325-0016 TP-3325-0032	1 — 16 oz. bottle 1 — 32 oz. bottle		
Water-Based						
Engine Coolant	4 gal	15 L	TP-3900-0001CS	1 — 1 oz. bottle <i>(display packaged)</i>	Green	
			TP-3900-0601	6 — 1 oz. bottles		
			TP-3900-2401	24 — 1 oz. bottles		
			TP-3900-0016	1 — 16 oz. bottle		
			TP-3900-0032	1 — 32 oz. bottle		
Auto Body Leak Check* and Hydraulic	60 gal	230 L	TP-3390-0016	1 — 16 oz. bottle	Green	
			TP-3390-0032	1 — 32 oz. bottle		
	30 gal	115 L	TP-3920-0016	1 — 16 oz. bottle	Blue	
			TP-3920-0032	1 — 32 oz. bottle		

*For auto body leak checks, mix dye in proper dilution with water and spray the dye/water solution on the outside of the vehicle where a leak is suspected. Check inside the vehicle with a Tracerline® inspection lamp for leakthrough.

4. Accessories and Glo-Away™

Accessories Designed specifically for use with Tracerline® lamps.

WHAT TO ORDER			
Product Number	Description	Product Number	Description
TP-1240	Plastic carrying/storage case for TP-1200P lamp	TP-1509	Portable rechargeable battery pack for 12-volt lamps with cigarette lighter plugs for TP-8000H lamps. Includes: 12-volt battery, 120-volt charger and nylon carrying case with shoulder strap (Note: 230V/50Hz, 240V/50Hz and 100V/50-60Hz chargers also available)
TP-1540	Plastic carrying/storage case for TP-1500P lamp		
TP-1640	Plastic carrying/storage case for TP-1600P lamp		
TP-1740	Plastic carrying/storage case for TITAN® TP-8000, TP-8000H and TP-8200 lamps		
TP-9940	Fluorescence-enhancing glasses	TP-1517	Adapter cord, 1-ft with cigarette lighter receptacle and alligator clips for TP-8000H lamp.
TP-9943	Fluorescence-enhancing goggles	TP-1518	Extension cord, 12-ft with cigarette lighter receptacle and plug for TP-8000H lamp.
		TP-8307	Holster for TP-8300 flashlight

Glo-Away™ Dye Cleaner/Remover

Glo-Away™ dye cleaner/remover removes all traces of dye from repaired leak sites so repairs can be verified. It is water based, nontoxic, nonflammable, noncarcinogenic, biodegradable and has no offensive odor. It contains no harmful solvents or CFCs and is safe for use on plastic, rubber and metals. It can be shipped without a hazardous material surcharge. Glo-Away™ comes in 8 oz. (237 ml) spray bottles and economical 16 oz. (473 ml) refill bottles.

WHAT TO ORDER			
Product Number	Description	Product Number	Description
TP-9000-0008	1 - 8 oz. spray bottle	TP-9000-1208	12 - 8 oz. spray bottles
TP-9000-0016	1 - 16 oz. refill bottle	TP-9000-1216	12 - 16 oz. refill bottles



5. Replacement Parts

		WHAT TO ORDER	
Product Number	Description	Product Number	Description
TP-1050	Filter lens for TP-1200P and TP-1600P lamps	TP-1513	Filter protector/lamp stand for TP-1500P lamp
TP-1511	Filter lens for TP-1500P lamp	TP-1660A	Heat guard/lamp stand for TP-1600P lamp
TP-1712	Filter lens for TP-1700A lamp	TP-8308	Battery, Nicad for TP-8300 flashlight
TP-1811	Filter lens for TP-1800 lamp	TP-106664	Retrofit kit to convert TP-1700A or TP-1700 lamp to TITAN® TP-8000R UV/Blue™ lamp (equivalent to TP-8000 lamp). Kit includes: TP-8011 filter lens, TP-8010 bulb, contrast collar, TITAN® lamp label and retrofit instructions.
TP-8011	Filter lens for TP-8000 and TP-8000H lamps	TP-106665	Retrofit kit to convert TP-1800 lamp to TITAN® TP-8200R UV/Blue™ lamp (equivalent to TP-8200 lamp). Kit includes: assembled lamp head (with TP-8211 filter lens, 2 O-rings and TITAN® lamp label), TP-1510 bulb, reflector, bracket with 2 screws and retrofit instructions.
TP-8211	Filter lens for and TP-8200 lamps	TP-108231	Repair kit for Universal Connect Sets TP-3837, TP-3887, TP-9837 and TP-9887. Kit includes: gaskets and O-rings for couplers, hoses, fittings and valves.
TP-8311	Filter lens/reflector module for TITAN® Stinger® TP-8300 flashlight	TP-108235	(6) Gaskets for TP-3851, TP-9937, TP-9941, TP-9946
TP-1210	Bulb (120-volt, 120-watt) for TP-1200P lamp	TP-108236	(6) Gaskets for TP-3861, TP-3871, TP-3872, TP-9942, TP-9947
TP-1510-0001	Bulb (12-volt, 50-watt) for TP-1500P, TP-1700A and TP-8200 lamps	TP-119781	Charge cord, 230 volt for TITAN® Stinger® TP-8300 lamp
TP-1510-0003	Bulb, set of three (12-volt, 50-watt) for TP-1500P, TP-1700A and TP-8200 lamps	TP-119782	Charge cord, 120 volt/60Hz for TITAN® Stinger® TP-8300 lamp
TP-1610	Bulb (120-volt, 150-watt) for TP-1600P lamp	TP-8307	Holster for TITAN® Stinger® TP-8300 flashlight
TP-1810	Bulb (12-volt, 35-watt) for lamp		
TP-8010-0001	Bulb (12-volt, 100-watt) for TP-8000 and TP-8000H lamps		
TP-8010-0003	Bulb, set of three (12-volt, 100-watt) for TP-8000 and TP-8000H lamps		
TP-8110	Bulb (12-volt, 35-watt) for lamp		
TP-8310	Bulb (3.7-volt, 6-watt) for TITAN® Stinger® TP-8300 flashlight		
TP-1260B	Filter protector/lamp stand for TP-1200P lamp		

6. Warranty Information

WARRANTY All equipment is warranted against defects in manufacture. Tracer Products' obligation under this warranty is limited to repairing or replacing, at the option of Tracer Products, any part(s) of the product which, if properly installed, used and maintained, proves upon factory examination to have been defective in materials or workmanship within 12 months from the date of delivery to the customer.

This warranty does not apply to any product or part which (1) is normally consumed in operation or (2) has a normal life inherently shorter than the warranty stated. For example, bulbs, filters and rechargeable batteries 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 thereunder are solely as stated in this form. In no event shall Tracer Products be liable for special, indirect, incidental or consequential damages, nor for any damages arising out of delay in shipment or production.

PRODUCT SPECIFICATIONS Tracer Products reserves the right to alter product specifications without notice. Tracer Products is under no obligation to make similar changes in its products previously produced.

Blue Max™ penlight leak detector ONLY:

FULL LIFETIME WARRANTY Tracer Products warrants that the Blue Max, excluding the batteries and the EZ-Reach extender, will be free from all defects in materials and workmanship for the entire life of the penlight. The EZ-Reach extender is warranted for 12 months from the date of purchase. This warranty does not cover abuse or alteration of the product nor of the LED bulb. Tracer Products will either repair or replace the penlight (at our option) without charge if the penlight proves upon factory examination to have been defective.

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For assistance of any kind, contact the Customer Service Department at Tracer Products. In the U.S. and Canada, call toll-free 1-800-641-1133. No returns will be honored without prior approval.

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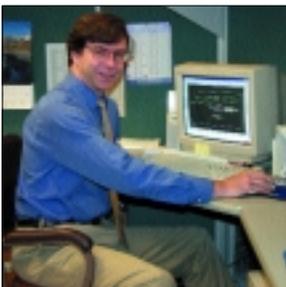
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