

TRACERLINE[®]

LEAK DETECTION and DIAGNOSTIC TOOLS



Pinpoint the Exact Source of All These Leaks:

- Air Conditioning & Refrigeration
- Air Brake
- Vacuum
- Tire
- Compressed Air
- Engine Oil
- Coolant
- Fuel
- Hydraulics
- Power Steering Fluid
- Automatic Transmission Fluid
- Wind & Water



TRACER PRODUCTS

A Division of Spectronics Corporation

ISO 9001:2000 CERTIFIED COMPANY

Catalog 155
(supersedes catalog 154)

Fluorescent Leak Detection

How It Works

Simply add a small amount of fluorescent dye to a vehicle's A/C or fluid system and allow it 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 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. 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 *co-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 auto makers in the U.S., Japan, Europe, China, Korea, Brazil and Mexico.

Product Support

Product literature, videos, instructions, MSDS sheets and a full staff of trained customer service representatives and technical service engineers are available from Tracer Products.

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. Spectronics manufactures more than 1,000 different products for the biotechnology, laboratory, industrial, electronics and other markets.

Order Information • Technical Assistance • Customer Service • Authorized Distributors

Phone: 1-800-641-1133 • 516-333-1254

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www.tracerline.com

Contents

1. Leak Detection Lamps and Kits 4

Cordless LED Lamps and Kits

TP-8620CS OPTI-Lite™	TP-8670CS Quad Max Pro™	TP-8690UV OPTIMAX™ 365
TP-8640CS OPTIMAX Jr™	TP-8690 OPTIMAX™ 3000	TP-9355 Dual-Max™

12-Volt, Corded Lamps and Kits

TP-1100	TP-1300	TP-8000A
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Kits for the Heavy Duty Market

Corded UV Lamps and Kits

TP-1390 TRITAN™ 365	TP-1600P	TP-35000 MAXIMA™
TP-1390M TRITAN™ 365	TP-1700P	TP-35000M MAXIMA™

Lamp Comparison/Selection Guide

2. Specialized Diagnostic Tools 12

TP-9350 COBRA™ borescope	TP-9360 PRO-Alert™ electronic refrigerant leak detector
TP-935036 COBRA-Plus™ borescope	TP-9370 Marksman™ ultrasonic diagnostic tool
TP-9354 COBRA-4™ borescope	

3. Dyes, Dyed Oils, Oils and Hardware for AC&R Systems 14

A/C Dye and Hardware Comparison/Selection Chart

EZ-Shot™, BigEZ™, EZ-Ject™ and Mini-EZ™ Injection Systems

Tracer-Stick® Dye Capsules

Dyed Refrigerant Oils

4. Fluorescent Dyes for Fluid Leak Detection 23

Oil-Based Fluids

Water-Based Fluids

5. GLO-AWAY™ Dye Cleaner 25

6. Clamshell Packaged Products 26

7. Replacement Parts and Accessories 28

8. Warranty Information 29

9. Customer Service and Support 30

10. Product Index 31

Cordless LED Lamps



TP-8690UV

OPTIMAX™ 365 Cordless, Rechargeable UV Leak Detection Flashlight (Patent Pending)

— **Makes Even Dirty Diesel Engine Oil Leaks Glow Brightly!**

- State-of-the-art, ultra-high intensity UV LED with 30,000-hour service life
- 4 times stronger than most corded, high-intensity UV lamps
- Inspection range of up to 20 feet (6.1 m) or more
- Powered by a rechargeable NiMH battery
- Smart AC and DC chargers (AC charger available in 120V, 230V, 240V or 100V versions)
- TP-9939 UV-absorbing glasses
- Belt holster and padded carrying case



TP-8640CS

OPTIMAX Jr™ Cordless, Ultra-Compact Blue Light Leak Detection Flashlight

— **Powerful, Portable and Affordable!**

- Very high intensity blue light LED with 100,000-hour service life
- Power comparable to high intensity 75W lamps
- Inspection range of up to 6 feet (1.8 m) or more
- Powered by 3 AA batteries (included)
- TP-9940 fluorescence-enhancing glasses
- Packaged in full-color hanging clamshell



TP-8620CS

OPTI-Lite™ Cordless, Economy Blue Light Leak Detection Flashlight

— **Budget Friendly!**

- (6) blue light LEDs with 100,000-hour service life
- Power comparable to 50W lamps
- Inspection range of up to 2 feet (0.6 m) or more
- Powered by 3 AA batteries (included)
- TP-9940 fluorescence-enhancing glasses
- Packaged in full-color hanging clamshell



TP-8690

OPTIMAX™ 3000 Cordless, Rechargeable Blue Light Leak Detection Flashlight

— **Most Powerful Portable!**

- Super-high intensity blue light LED with 50,000-hour service life
- 15 times brighter than regular LED lights
- Power comparable to super-high intensity 150W lamps
- Inspection range of up to 20 feet (6.1 m) or more
- Compatible with all standard leak detection dyes
- Powered by a rechargeable NiMH battery
- 120V, 230V, 240V or 100V smart AC charger
- TP-9940 fluorescence-enhancing glasses



TP-9355

Dual-Max™ Cordless Multi-Function Flashlight

— **Two Powerful LEDs! One Lightweight Lamp!**

- Features super-bright blue light LED for leak detection, plus white light LED for component inspection
- Power comparable to high-intensity 75W lamps
- Inspection range of up to 6 feet (1.8 m) or more
- Lightweight, compact design allows easy access into tight spaces
- 100,000-hour LED service life
- Powered by 3 AAA batteries (included)
- TP-9940 fluorescence-enhancing glasses



TP-8670CS

Quad Max Pro™ (U.S. Pat. 6,491,408)

Flexible, Multi-Function UV Leak Detection Lamp with Mirror

— **Most Professional Flexible!**

- Three lamp positions: UV/White/Off (3 UV LEDs for leak detection and 1 white light LED for regular inspection, all with 100,000-hour service life)
- Flexible head allows precise positioning in tight spots
- Adjustable service mirror helps pinpoint "hidden" leaks
- Powered by 3 "AAA" batteries (included)
- TP-9940 fluorescence-enhancing glasses
- Packaged in full-color hanging clamshell

Cordless LED Lamp Kits



TP-8627 Complete OPTI-Lite™/EZ-Ject™ A/C and Fluid Kit

Contains:

- TP-8620CS OPTI-Lite™ economy, 6-LED blue light leak detection flashlight
- TP-9845 EZ-Ject™ A/C dye injector assembly, TP-9847 8" hose assembly, 1/4" flare check valve, R-12 adapter/purge fitting and R-134a coupler, low side
- TP-9870 universal A/C dye cartridge for servicing up to 14 vehicles
- TP-3405CS – 1 oz (30 ml) bottle of Dye-Lite® All-In-One™ standard dye for oil, fuel, ATF, PS and hydraulics, services 1 vehicle
- TP-3900-0001CS – 1 oz (30 ml) bottle of Dye-Lite® water-based dye for coolant and auto body leaks
- TP-9940 fluorescence-enhancing glasses
- TP-1143 plastic carrying case



TP-8647 Complete OPTIMAX Jr™/EZ-Ject™ A/C and Fluid Kit

Contains:

- OPTIMAX Jr™ high intensity blue light LED leak detection flashlight
- TP-9845 EZ-Ject™ A/C dye injector assembly, TP-9847 8" hose assembly, 1/4" flare check valve, R-12 adapter/purge fitting and R-134a coupler, low side
- TP-9870 universal A/C dye cartridge for servicing up to 14 vehicles
- TP-3405CS – 1 oz (30 ml) bottle of Dye-Lite® All-In-One™ standard dye for oil, fuel, ATF, PS and hydraulics, services 1 vehicle
- TP-3900-0001 – 1 oz (30 ml) bottle of Dye-Lite® water-based dye for coolant and auto body leaks
- TP-9940 fluorescence-enhancing glasses
- TP-1143 plastic carrying case



TP-8646 Complete OPTIMAX Jr™/EZ-Shot™ A/C Kit

Contains:

- TP-8640CS OPTIMAX Jr™ super-compact, high intensity blue light LED leak detection flashlight
- TP-9790 EZ-Shot A/C dye injection kit with TP-9747 hose/coupler for R-134a systems and R-12 adapter/purge fitting
- TP-9770-0108 – 8 oz (237 ml) universal A/C dye cartridge for servicing up to 64 vehicles
- 120884 – 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- TP-9940 fluorescence-enhancing glasses
- TP-1140 plastic carrying case



TP-8649 Complete OPTIMAX Jr™/Mini-EZ™ A/C and Fluid Kit

Contains:

- OPTIMAX Jr™ high intensity blue light LED leak detection flashlight
- TP-9845 Mini-EZ™ A/C dye injector, TP-9847 8" hose assembly, 1/4" flare check valve, R-12 adapter/purge fitting and R-134a coupler, low side
- (6) R-134a/PAG Mini-EZ™ A/C dye cartridges
- TP-3400-0001 – 1 oz (30 ml) bottle of Dye-Lite® All-In-One™ concentrated dye for oil, fuel, ATF, PS and hydraulics, services up to 2 vehicles
- TP-3940 – 1 oz (30 ml) bottle of Rite-Blend™ extended-life coolant dye
- TP-9940 fluorescence-enhancing glasses
- TP-1143 plastic carrying case

Cordless LED Lamp Kits



CE

TP-8621

Complete LeakFinder™ A/C and Fluid Starter Kit

— Pinpoints A/C, Oil, Fuel, ATF, PS, Hydraulics and Coolant Leaks!

Contains:

- TP-8620CS OPTI-Lite™ economy, 6-LED blue light leak detection flashlight
- TP-9881 syringe A/C dye injector assembly with hose/coupler for R-134a systems and R-12 adapter/purge fitting
- TP-3840-0001CS – 1 oz (30 ml) bottle of universal A/C dye, services up to 4 vehicles
- TP-3405CS – 1 oz (30 ml) bottle of Dye-Lite® All-In-One™ standard dye for oil, fuel, ATF, PS and hydraulics, services 1 vehicle
- TP-3900-0001CS – 1 oz (30 ml) bottle of Dye-Lite® water-based dye for coolant and auto body leaks
- 120884 – 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- TP-9940 fluorescence-enhancing glasses
- TP-1140 plastic carrying case



CE

TP-8626

OPTI-Lite™/EZ-Shot™ A/C Kit

— Most Economical!

Contains:

- TP-8620CS OPTI-Lite™ economy, 6-LED blue light leak detection flashlight
- TP-9790 EZ-Shot™ A/C dye injection kit with TP-9747 hose/coupler for R-134a systems and R-12 adapter/purge fitting
- TP-9770-0108 – 8 oz (237 ml) universal A/C dye cartridge for servicing up to 64 vehicles
- 120884 – 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- TP-9940 fluorescence-enhancing glasses
- TP-1140 plastic carrying case



CE

TP-8648

Complete LeakFinder™ Wind & Water Kit

— Find Leaks in Truck/Trailer/Auto Bodies, Fast and Easy!

Locate wind and water leaks in moon and sunroofs, windshields, door and trunk seals, cabs and joints, or any other place leaks can occur!

Contains:

- TP-8640CS OPTIMAX Jr™ ultra-compact, high-intensity blue light LED flashlight
- TP-1131 pressure-adjustable TracerJet™ spray gun
- TP-3900-0008 – 8 oz (237 ml), twin-neck bottle of Dye-Lite® fluorescent water dye
- TP-9940 fluorescence-enhancing glasses
- TP-1142 plastic carrying case

12-Volt, Corded Lamps and Kits

TP-8000A TITAN® UV/Blue™ 100-Watt Lamp (Patented) — Most Powerful!

- Patented dichroic filter produces significantly more light for faster, more reliable leak detection
- Super-high intensity flashlight-style lamp
- Inspection range of up to 5 feet (1.5 m) or more
- Bulb rating: 12 volts, 100 watts, "instant-on"
- 12-foot (3.7 m) coiled cord with alligator clips
- TP-9940 fluorescence-enhancing glasses



TP-1300 Blue Light 3-LED Lamp

- Power comparable to high-intensity 100W lamps
- Inspection range of up to 8 feet (2.4 m) or more
- 100,000-hour LED service life
- 14-foot (4.3 m) cord with alligator clips
- TP-9940 fluorescence-enhancing glasses



TP-1100 UV/Blue™ 50-Watt Lamp — Most Economical!

- Compact, high-intensity lamp
- Inspection range of up to 2 feet (0.6 m) or more
- Bulb rating: 12 volts, 50 watts, "instant-on"
- 14 foot (4.3 m) cord with alligator clips
- TP-9940 fluorescence-enhancing glasses



TP-1126 EZ-Shot™ 50-Watt A/C Kit

Contains:

- TP-1100 high-intensity, 50-watt UV/Blue™ lamp
- TP-9790 EZ-Shot A/C dye injection kit with:
 - TP-9747 hose/coupler for R-134a systems with R-12 adapter purge fitting
 - TP-9770-0108 – 8 oz (237 ml) universal A/C dye cartridge for servicing up to 64 vehicles
- 120884 – 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- TP-9940 fluorescence-enhancing glasses
- TP-1140 plastic carrying case



TP-1127 Complete EZ-Ject™/50-Watt A/C and Fluid Kit

Contains:

- TP-1100 high-intensity, 50-watt UV/Blue™ lamp
- TP-9845 EZ-Ject™ A/C dye injector assembly, TP-9847 8" hose assembly, 1/4" flare check valve, R-12 adapter/purge fitting and R-134a coupler, low side
- TP-9870 universal A/C dye cartridge for servicing up to 14 vehicles
- TP-3400-0001 – 1 oz (30 ml) bottle of Dye-Lite® All-In-One™ concentrated dye for oil, fuel, ATF, PS and hydraulics, services 2 vehicles
- TP-3900-0001 – 1 oz (30 ml) bottle of Dye-Lite® water-based dye for coolant and auto body leaks
- TP-9940 fluorescence-enhancing glasses
- TP-1143 plastic carrying case



TP-1121 Complete LeakFinder™ A/C and Fluid Kit — Finds All Auto Leaks! Pinpoints A/C, Oil, Fuel, ATF, PS, Hydraulics and Coolant Leaks

Contains:

- TP-1100 high-intensity, 50-watt UV/Blue™ lamp
- TP-9881 syringe A/C dye injector assembly with hose/coupler for R-134a systems and R-12 adapter/purge fitting
- TP-3840-0001 – 1 oz (30 ml) bottle of universal A/C dye, services up to 4 vehicles
- TP-3400-0001 – 1 oz (30 ml) bottle of Dye-Lite® All-In-One™ concentrated dye for oil, fuel, ATF, PS and hydraulics, services 2 vehicles
- TP-3900-0001 – 1 oz (30 ml) bottle of coolant dye
- 120884 – 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- TP-9940 fluorescence-enhancing glasses
- TP-1141 plastic carrying case

Kits for the Heavy Duty Market



TP-8697HD

Complete OPTIMAX™ 3000/EZ-Ject™ Heavy-Duty A/C and Fluid Kit

Contains:

- TP-8690 OPTIMAX™ 3000 super-high intensity blue light LED flashlight with battery charger
- TP-9845 EZ-Ject™ A/C dye injector assembly, TP-9847 8" hose assembly, 1/4" flare check valve, R-134a coupler, low-side and R-12 adapter/purge fitting
- TP-9870 (2) universal A/C dye cartridges, each 1/2 oz (14.8 ml) cartridge services up to 14 vehicles
- TP-3400-0008 – 8 oz (237 ml) bottle of Dye-Lite® All-In-One™ concentrated dye for oil, fuel, ATF, PS and hydraulics, services up to 16 vehicles
- TP-3900-0008 – 8 oz (237 ml) bottle of Dye-Lite® water-based dye for coolant and auto body leaks, services up to 8 vehicles
- 120884 – 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- TP-9940 fluorescence-enhancing glasses
- TP-1140 plastic carrying case



TP-8647HD

Complete OPTIMAX Jr™/EZ-Ject™ Heavy-Duty A/C and Fluid Kit

Contains:

- TP-8640CS OPTIMAX Jr™ high intensity blue light LED leak detection flashlight
- TP-9845 EZ-Ject™ A/C dye injector assembly, TP-9847 8" hose assembly, 1/4" flare check valve, R-134a coupler, low side and R-12 adapter/purge fitting
- TP-9870 (2) universal A/C dye cartridges, each 1/2 oz (14.8 ml) cartridge services up to 14 vehicles
- TP-3400-0008 – 8 oz (237 ml) bottle of Dye-Lite® All-In-One™ concentrated dye for oil, fuel, ATF, PS and hydraulics, services up to 16 vehicles
- TP-3900-0008 – 8 oz (237 ml) bottle of Dye-Lite® water-based dye for coolant and auto body leaks, services up to 8 vehicles
- 120884 – 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- TP-9940 fluorescence-enhancing glasses
- TP-1140 plastic carrying case

Quick Fact!

Tracerline® fluorescent dyes are used and approved by Kenworth, Freightliner, Cummins, Caterpillar, John Deere, GM, Ford, Chrysler, Nissan Diesel, International Truck and other major OEMs

Cordless UV Lamps and Kits

Ultraviolet lamps are the original leak detection technology, producing virtually no visible light. This makes even the smallest leaks glow brighter!



TP-35020
Featuring the TP-35000 MAXIMA™
Spot UV Lamp



TP-35029M
Featuring the TP-35000M MAXIMA™
Battery-Operated Spot UV Lamp

MAXIMA™ Series Lamp Kits (U.S. Pat. 6,573,665)

— Ultra-high intensity UV output!

- Micro Discharge Light (MDL) technology delivers up to 10 times the UV output of 150-watt lamps
- Inspection range of up to 30 feet (9.1 m) or more
- Works even in direct sunlight
- Bulb: "instant-on", available in 120V, 230V, 240V and 100V versions
- 8 foot (2.4 m) cord from lamp to ballast, and 8 foot (2.4 m) cord from ballast to AC power source
- **TP-35000 Specifications:** lamp head 2.5 lbs (1.1 kg), solid-state ballast, 3.6 lbs (1.6 kg)
- **TP-35000M Specifications:** lamp head 2.5 lbs (1.1 kg), solid-state ballast with battery pack, 10.6 lbs (4.8 kg)

Kits include: UV-absorbing glasses (TP-9939), fluorescence-enhancing glasses (TP-9940), 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner (120884) and plastic carrying case (TP-1340). **TP-35029M** kit also includes 12-volt rechargeable battery, 120V AC charger and shoulder strap (TP-1509). Battery pack can be attached to ballast housing for easy transport. Lamp can also be AC operated via interchangeable power cord.

Also available:

- TP-35000FL flood lamp version for wider beam profile
- TP-35000RS retractable "flying" reel version
- TP-35110D diffusing filter, for use with TP-35000 spot bulb version

TP-1390 TRITAN™ 365 UV Lamp

— Versatile, Ultra-High Intensity, Multi-LED, Broad-Beam UV Lamp!

- Three UV LEDs for leak detection plus one white LED for illuminating dark work areas
- Inspection range of up to 20 feet (6.1 m) or more
- Works with all automotive/truck systems and dyes, especially difficult-to-fluoresce yellow dyes
- Extra-wide beam profile ideal for leak checking large radiators and condensers
- Instant-on operation; lamp reaches full intensity immediately.
- Grip-mounted, three-position rocker switch (white light/off/UV)
- Rubber bumper with Borofloat® glass lens protects LEDs from damage
- Built-in fan keeps LEDs cool to maintain optimum light intensity during extended use
- 8 foot (2.5 m) power cord with AC plug (available in 120V, 230V, 240V and 100V versions)
- Specifications: lamp head diameter, 3.25 in (8.3 cm); weight, 1 lb (454 g)
- TP-9939 UV-absorbing glasses



Also available:

TP-1390M TRITAN™ 365 Battery-Operated UV Lamp Kit

Featuring the TP-1390M TRITAN™ 365 UV Lamp

Includes: rechargeable 12-volt NiMH battery pack (TP-1395), AC/DC adapter cord set (TP-1393), smart AC charger (TP-1396), UV-absorbing glasses (TP-9939) and soft carrying case (TP-1392A).

TP-1600P Tracerline® 150-Watt UV Lamp

— Most Popular UV Lamp!

- Extremely high intensity
- Heat guard/lamp stand
- 8 foot (2.5 m) cord, AC-powered
- Inspection range of up to 25 feet (7.6 m) or more
- Built-In-Ballast™ bulb eliminates the need for a heavy, external transformer
- Bulb rating: 150 watts (available in 120V, 230V, 240V and 100V versions)
- Specifications: 3 ¼ lbs (1.5 kg), 6 ¾ x 10 ¼ in (17.1 x 26 cm)
- TP-9939 UV-absorbing glasses

TP-1620 lamp kit also available: Contains TP-1600P UV lamp, UV-absorbing glasses (TP-9939), 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner (120884) and plastic carrying case (TP-1640, not shown)



TP-1700P Tracerline® 50-Watt Long Wave UV Lamp

— Portable!

- High intensity flashlight-style lamp
- Bulb rating: 12 volts, 50-watts, "instant-on"
- 12 ft. (3.7 m) coiled cord with alligator clips
- Inspection range of up to 1 ½ ft (0.46 m) or more
- TP-9939 UV-absorbing glasses

Lamp Comparison/Selection Guide

Use this guide to select the lamp you need

TP-1390, TP-1390M, TP-1600P and TP-1700P lamps come with one pair of UV-absorbing glasses (TP-9939). TP-35000 and TP-35000M MAXIMA™ lamps come with one pair of UV-absorbing glasses (TP-9939) and one pair of fluorescence-enhancing glasses (TP-9940). All other lamps come with one pair of fluorescence-enhancing glasses (TP-9940).

	12-Volt, Corded Lamps			Corded UV Lamps			
Specifications	TP-8000A	TP-1300	TP-1100	TP-1700P	TP-1600P	TP-35000 MAXIMA™	TP-1390 TRITAN™ 365
Recommended uses	All		All except heavy duty	All			
Light Intensity	Super High	Very High	High	High	Extremely High	Ultra High	
Bulb Rating	100 watts	3 LEDs (comparable to 100W lamp)	50 watts	50 watts	150 watts	35 watts MDL	3 Ultra-High-Flux UV LEDs & 1 White LED (comparable to 300W lamp)
Inspection Range ^① Maximum	5 ft (1.5 m) or more	8 ft (2.4 m) or more	2 ft (0.6 m) or more	1½ ft (0.46 m) or more	25 ft (7.6 m) or more	30 ft (9.1 m) or more	Yellow Dye: Up to 20 ft (6.1 m) or more
Recommended	Up to 3 ft (0.9 m)	Up to 4 ft (1.2 m)	Up to 12 in (30 cm)	Up to 10 in (26 cm)	Up to 8 ft (2.4 m)	Up to 10 ft (3.0 m)	Green Dye: Up to 6 ft (1.8 m) or more ^②
Lamp Style	Flashlight	Compact		Flashlight	Pistol Grip		
Operation	Instant-on			Instant-on	5 minute warm-up	Instant-on	
Lamp Head Diameter x Length	3¼ x 7½ in (8.3 x 19 cm)	2½ x 6¾ in (6.3 x 17.1 cm)		3¼ x 7½ in (8.3 x 19 cm)	6¾ x 10¼ in (17.1 x 26 cm)	6¾ x 7½ in (17.1 x 19.1 cm)	3¼ x 8 in (8.3 x 20.3 cm)
Weight	10.5 oz (298 g)	3.9 oz (113 g)		10.5 oz (298 g)	3¼ lb (1.5 kg)	Lamp head 2.5 lb (1.1 kg) with ballast 6.1 lb (2.8 kg)	1 lb (454 g)
Cord Length	12 ft (3.7 m) coiled cord with alligator clips	14 ft (4.3 m) with alligator clips		12 ft (3.7 m) coiled cord with alligator clips	8 ft (2.5 m) cord with AC plug	Primary and secondary cords are both 8 ft (2.5 m) long	8 ft (2.5 m) cord with AC plug
Power Requirement	12 VDC			12 VDC	120V, 230V, 240V and 100VAC versions		
Options/Accessories	—	—	—	—	20 ft (6.1 m) cord	TP-35000M battery-operated version	TP-1390M battery-operated version

① Depending on room light levels, as measured from bulb to leak site.

② The lamp's broad UV beam works best at closer distances.

Lamp Comparison/Selection Guide

Use this guide to select the lamp you need

TP-8690UV lamp comes with one pair of UV-absorbing glasses (TP-9939).
All other lamps come with one pair of fluorescence-enhancing glasses (TP-9940).

	Cordless LED Lamps					
Specifications	TP-8620CS OPTI-Lite™	TP-8640CS OPTIMAX Jr™	TP-8690 OPTIMAX™ 3000	TP-8690UV OPTIMAX™ 365	TP-8670CS Quad Max Pro™	TP-9355 Dual-Max
Recommended uses	All				Light Duty	All
Light Intensity	High	Very High	Super High	Ultra High	Medium	Very High
Bulb Type	6 LEDs (comparable to 50W lamp)	High-Flux LED (comparable to 75W lamp)	Super-High-Flux LED (comparable to 150W lamp)	Ultra-High-Flux UV LED (comparable to 150W lamp)	3 UV LEDs & 1 White LED	1 High-Flux Blue LED & 1 High-Flux White LED (comparable to 75W lamp)
Inspection Range ① Maximum	2 ft (0.6 m)	6 ft (1.8 m) or more	20 ft (6 m) or more		Approx. 2 in (5 cm)	6 ft (1.8 m) or more
Recommended	Up to 12 in (30 cm)	Up to 3 ft (0.9 m)	Up to 6 ft (1.8 m)		Up to 2 in (5 cm)	Up to 3 ft (0.9 m)
Lamp Style	Flashlight				Flexible head	Flashlight
Operation	Instant-on					
Lamp Head Diameter x Length	1 3⁄32 x 7 15⁄16 in (2.8 x 19 cm)		1 15⁄16 x 7 1⁄2 in (4.9 x 20 cm)	2 x 8 in (5.1 x 20.3 cm)	5⁄8 x 18 in (1.6 x 46 cm)	1 1⁄8 x 6 1⁄16 in (2.9 x 15.4 cm)
Weight	4.8 oz (135 g)		11.2 oz (318 g)		7.5 oz (216 g)	5.8 oz (164 g)
Power Requirement	3 “AA” batteries		Rechargeable NiMH battery		3 “AAA” batteries	
Options/ Accessories	—	—	120V, 230V, 240V or 100VAC smart charger (included)	AC and DC smart chargers (included). AC chargers available in 120V, 230V, 240V and 100V versions)	Adjustable mirror (included)	—

① Depending on room light levels, as measured from bulb to leak site.

Specialized Diagnostic Tools

Marksman™ Ultrasonic Diagnostic Tool

TP-9370

Converts and amplifies inaudible ultrasonic sound into audible “natural” sound for accurate diagnosis of leaks and defects.

Finds problems before they result in major breakdowns.

- Detects air brake, tire, compressed air, vacuum, EVAP system and other pressurized leaks quickly and effortlessly
- Pinpoints gear and bearing wear in wheel hubs, transmissions, transfer cases, differentials and electric motors
- Checks for electrical discharge associated with insulation breakdown, carbon tracking and arcing
- Finds air and water leaks around faulty seals, gaskets and weatherstripping in passenger cabs, trailers and other non-pressurized enclosures

Master Kit includes: Ultrasonic receiver, ultrasonic emitter, headphones, air probe, contact probe and carrying case

Also available: TP-9371 (same as TP-9370, but without emitter)



See and Hear the Marksman™ in Action!
Visit www.tracerline.com/marksman.html

Pro **Alert™**

TP-9360

Electronic Refrigerant Leak Detector

Features high-performance heated-diode sensor technology!

- Optimum sensitivity detects leaks down to 0.25 oz/year (7 g/year)
- Sensor life up to 200 hours or more
- Automatically self-calibrates to neutralize background contamination
- Sensitive to R-12, R-134a and all other HFC refrigerants
- High/low switch for accurate diagnosis of both large and small leaks
- Variable-intensity audible alarm plus flashing LED help pinpoint leaks fast
- Chrome-plated, flexible metal probe holds its position in tight spaces
- Easily replaceable foam filter protects sensor and pump
- Includes sensor, replacement filters, (2) D cell batteries and rugged storage case



Specialized Diagnostic Tools

COBRA™ Series Multipurpose Borescopes



TP-9350 COBRA™ and TP-935036 COBRA-Plus™ (U.S. Pat. 6,491,408)

Feature built-in UV LED for detecting refrigerant leaks, fluid leaks and surface flaws, plus white light LED for component inspection!

- Advanced 7400 pixel imaging bundle and adjustable-focus eyepiece allow crystal-clear viewing
- “No-droop” shaft maintains position for easier access into hard-to-view areas
- Strong, impact- and water-resistant nylon housing stands up to the daily abuse of a shop environment
- Pistol grip handle provides steady, comfortable viewing
- Clip-on mirror permits viewing at an angle to detect “hidden” leaks and flaws
- TP-9350 COBRA™ equipped with 10 mm, 24 inch (61 cm) shaft
- TP-935036 COBRA-Plus™ features 10 mm, extra-long 36 inch (91.4 cm) shaft for greater versatility
- Includes fluorescence-enhancing glasses and padded carrying case



TP-9354 COBRA-4™

Features a detachable dual-head flashlight with super-bright blue and white light LEDs for both leak detection and internal component inspection. Designed for specialized applications that require extended reach or viewing into deep recesses. Slides easily into inaccessible areas.

- Advanced 7400 pixel imaging bundle provides unsurpassed resolution and clarity
- Super-thin, 4 mm water- and abrasive-resistant 36 inch (91.4 cm) flexible shaft for added versatility. Gets into very small spaces and orifices other scopes miss!
- Efficient, press-fit coupler design allows for quick changing of light source
- Clip-on, angled mirror helps pinpoint leaks and flaws normally hidden from view
- Includes fluorescence-enhancing glasses and padded carrying case

Model	Light Source	Inspection Range	Lamp Style	Operation	Shaft Diameter X Length	Weight	Power Requirements
TP-9350 COBRA™	1 UV LED <u>and</u> 1 white LED (built-in)	Maximum: 0.4 in (1 cm) to infinity ①	Flexible head	Instant-on	0.4 x 24 in (10 mm x 61.7 cm)	1 lb (454 g)	4 “AA” batteries
TP-935036 COBRA-Plus™		Recommended: Up to 2 in (5 cm) ②			0.4 x 36 in (10 mm x 91.4 cm)	1½ lb (567 g)	
TP-9354 COBRA-4™	Dual-head flashlight with super-bright blue <u>and</u> white light LEDs	Maximum: 0.4 in (1 cm) to infinity ① Recommended: Up to 2 in (5 cm) ②	Compact Flashlight	Instant-on	0.16 x 36 in (4 mm x 91.4 cm)	7 oz (202 g)	3 “AAA” batteries

① Focal viewing field

② For UV leak detection

Dyes, Dyed Oils, Oils and 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. **All dyes, dye packs and leak detection kits include underhood labels.**

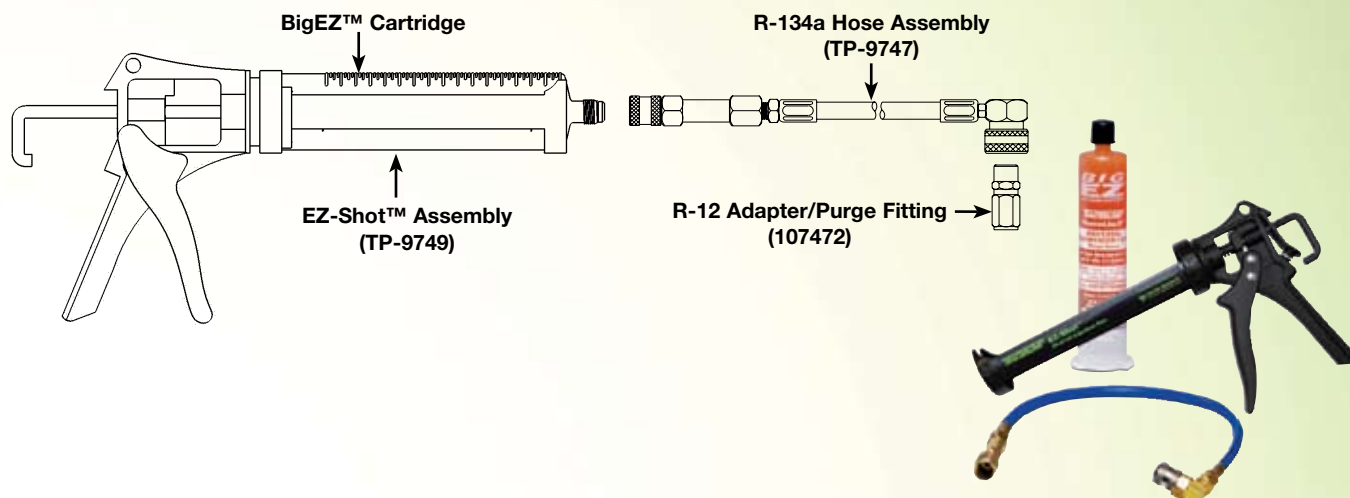
Important Note: All Tracerline® universal/POE AC&R dyes have been laboratory tested and are proven safe for use in **hybrid** vehicles.



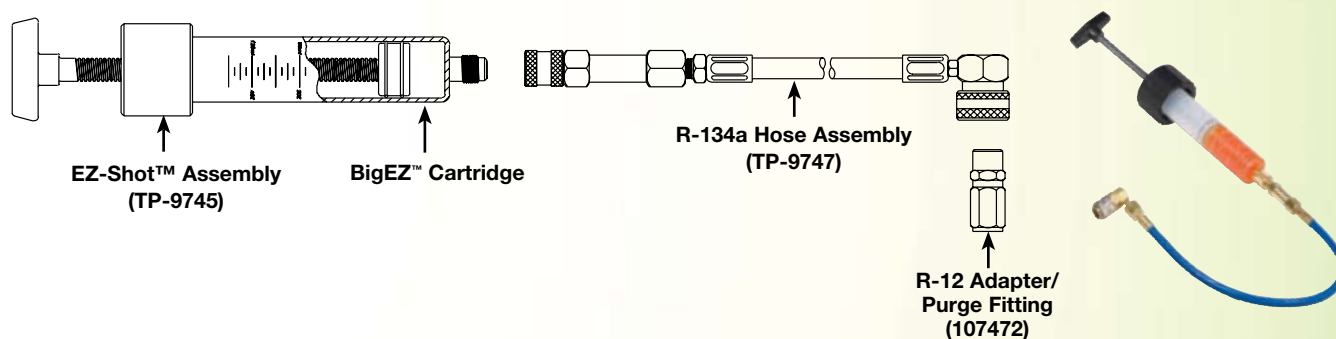
Method	BigEZ™ Cartridges and BigEZ™ and EZ-Shot™ Injectors	EZ-Ject™ and Mini-EZ™ Cartridges and Injectors	Tracer-Stick® Capsules and R-134a Connect Set™ or Standard Hardware	Bottled Dyes and Injectors	Dyed Refrigerant Oils
Description	Fast, easy, economical Large size, multi-dose, prefilled, disposable BigEZ™ dye cartridges	Budget friendly Prefilled, disposable multi-dose EZ-Ject™ and single-dose Mini-EZ™ dye cartridges	Easy Single-dose, prefilled, disposable dye capsules	Economical Bottled dyes used with refillable injectors	Fast and convenient Easy way to add both oil and fluorescent dye into system
For these refrigerants	Compatible with <u>all</u> refrigerants				
For this system size	4 oz (118 ml) cartridge services up to <u>32 vehicles</u> 8 oz (237 ml) cartridge services up to <u>64 vehicles</u>	½ oz (14.8 ml) EZ-Ject™ cartridge services up to <u>14 vehicles</u> ¼ oz (7.4 ml) Mini-EZ™ cartridge services <u>1 vehicle</u>	Vehicle A/C systems with 2-25 lbs (0.9 – 11.3 kg) of refrigerant or 5 oz – 2 gal (150 ml – 7.6 L) of lubricant	¼ oz (7.4 ml) of dye services 1 standard-size vehicle with up to 3 lbs (1.4 kg) of refrigerant or 10 fl oz (300 ml) of lubricant	All
Use this dose	⅛ oz (3.7 ml) per standard-size vehicle	EZ-Ject™ 0.035 oz (1 ml) per standard-size car. Mini-EZ™ ¼ oz (7.4 ml) per standard-size vehicle	See Tracer-Stick Capsules Section	¼ oz (7.4 ml) per standard size vehicle	Check with system manufacturer
Dye types available	Universal/POE for <u>all</u> refrigerants, as well as lubricant-specific for R-134a/PAG and R-12/mineral oil	Universal/POE for <u>all</u> refrigerants, as well as lubricant-specific for R-134a/PAG			Universal/POE for R-134a and R-12 refrigerants. PAG in 46 cSt, 100 cSt, 150 cSt viscosities for R-134a
Dye available in	Individual 4 oz (118 ml) and 8 oz (237 ml) cartridges	Individual ½ oz (14.8 ml) EZ-Ject™ cartridges and ¼ oz (7.4 ml) Mini-EZ™ cartridges	Small and large capsules with four dye concentrations	12-pack – ¼ oz (7.4 ml), 6-pack – 1 oz (30 ml) Single 8 oz (237 ml), 16 oz (473 ml) and 32 oz (946 ml) bottles	8 oz (237 ml), 32 oz (946 ml) and 1 gallon (3.8 L)
Injectors required	TP-9741 BigEZ™ PAG-low side, TP-9742 BigEZ™ universal, TP-9790 EZ-Shot™ universal	TP-9841CS EZ-Ject™ universal, TP-9848 EZ-Ject™ R-134a/PAG, TP-9890 Mini-EZ™ R-134a/PAG, TP-9891 Mini-EZ™ universal	R-134a Connect Set Small Capsules: TP-3887 (low side) TP-9887 (high side) Large Capsules: TP-3837 (low side) TP-9837 (high side)	Hose & coupler included TP-9880 universal dye injector for R-12 & R-134a systems TP-3886A injector for R-134a systems TP-9881 syringe dye injector for R-12 and R-134a systems	None

Dyes, Dyed Oils, Oils and Hardware for AC&R Systems

EZ-Shot™ Multi-Dose A/C Dye Injection Gun – Super Fast!



BigEZ™ Multi-Dose A/C Dye Injector – Most Accurate!



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

BigEZ™ Cartridge Hookup Chart



For These 4 oz (118 ml) and 8 oz (237 ml) BigEZ™ Cartridges	With These Systems	Use This Hose (Coupler Included)	
		LOW SIDE	HIGH SIDE
TP-9750 Series (R-12/mineral oil)	R-12/mineral oil	TP-9747	TP-9746*
TP-9760 Series (R-134a/PAG)	R-134a/PAG		TP-9748
TP-9770 Series (Universal/POE)	R-12/mineral oil		TP-9746*
	R-134a/PAG and R-134a/ester		TP-9748

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

Dyes, Dyed Oils, Oils and Hardware for AC&R Systems

(U.S. Patent No. 6,056,162)

BigEZ™ Multi-Dose A/C Dye Injection Kits

The BigEZ™ dye injector is the easiest and most accurate method of adding dye to a vehicle's A/C system. Disposable BigEZ cartridges are prefilled with *co-solvent free* A/C dye, certified to meet SAE standard J2297 and calibrated for exact dosing. The 4 oz (118 ml) dye cartridge services up to 32 vehicles.

Low-side and high-side kits are available for R-134a/PAG systems and a low-side kit is available with universal/POE dye for all refrigerants. Low-side kits are available in full-color, plastic, hanging clamshell display packages ("CS" suffix in product number).

TP-9741CS
BigEZ™ R-134a/PAG
A/C Dye Injection Kit

TP-9742CS
BigEZ™ Universal
A/C Dye Injection Kit



8 oz (237 ml) BigEZ™ cartridges
also fit most popular caulking gun
dye injectors.

4 oz (118 ml) BigEZ™ cartridges
also fit all popular caulking gun
and pump-type dye injectors.

BigEZ™ Multi-Dose A/C Dye Injection Kits – *What to Order*

Product Number	Description (All kits include underhood labels)
TP-9741 or TP-9741CS	For <u>LOW-SIDE</u> injection of R-134a systems <u>only</u> 1 – TP-9745 BigEZ™ assembly 1 – TP-9760-0004 4 oz (118 ml) 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 1 – 107472 R-12 purge/adaptor fitting
TP-9742 or TP-9742CS	For <u>LOW-SIDE</u> injection of R-12 and R-134a systems 1 – TP-9745 BigEZ™ assembly 1 – TP-9770-0004 4 oz (118 ml) BigEZ™ multi-dose cartridge with universal/POE 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 – 107472 R-12 purge/adaptor fitting
TP-9743	For <u>HIGH-SIDE</u> injection of R-134a systems <u>only</u> 1 – TP-9745 BigEZ™ assembly 1 – TP-9760-0004 4 oz (118 ml) BigEZ™ multi-dose cartridge for R-134a/PAG systems 1 – TP-9748 injection hose with HIGH-SIDE quick coupler for R-134a/PAG systems

BigEZ™ Multi-Dose Dye and Oil Cartridges for BigEZ™ and EZ-Shot™ Injectors – *What to Order*

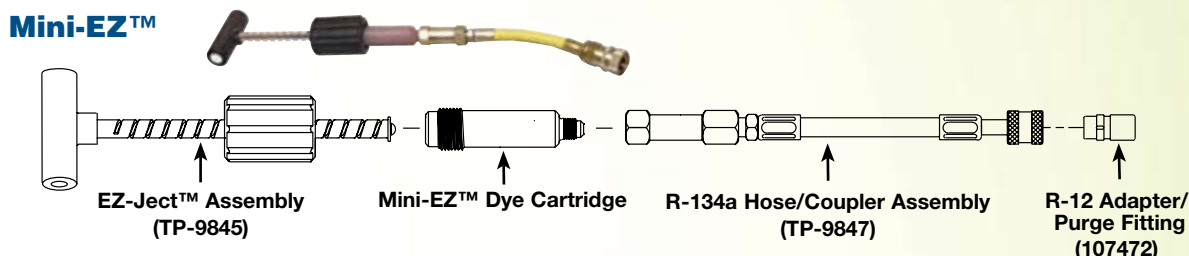
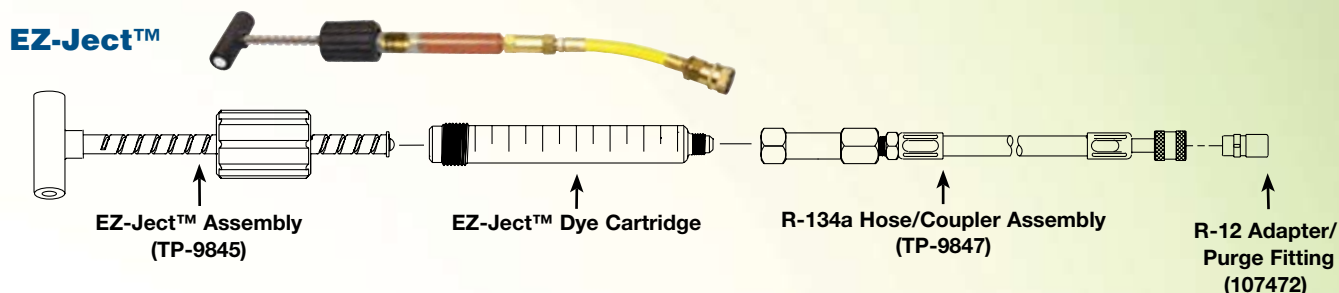


		Product Number	Description
DYE CARTRIDGES 4 oz (118 ml) and 8 oz (237 ml)	Dye for R-12/Mineral Oil Systems	TP-9750-0004CS	1 - 4 oz dye cartridge
		TP-9750-0108	1 - 8 oz dye cartridge
	Dye for R-134a/PAG Systems	TP-9760-0004CS	1 - 4 oz dye cartridge
		TP-9760-0108	1 - 8 oz dye cartridge
	Universal/POE Dye (Compatible with All Lubricants and Refrigerants)	TP-9770-0004CS	1 - 4 oz dye cartridge
		TP-9770-0108	1 - 8 oz dye cartridge
OIL CARTRIDGES 8 oz (237 ml) 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*
	Ester Oil	TP-9764-0108	1 - 8 oz oil cartridge - 150 cSt viscosity
		TP-9771-0108	1 - 8 oz oil cartridge - 100 cSt viscosity

*GM-approved viscosity

Dyes, Dyed Oils, Oils and Hardware for AC&R Systems

EZ-Ject™ Multi-Dose and Mini-EZ™ Single-Dose Dye Injection Systems – Simplest!



EZ-Ject™ and Mini-EZ™ Dye Injection Systems are Available as Complete Kits – *What to Order*

Product Number	Description (All kits include underhood labels)
TP-9841 or TP-9841CS	EZ-Ject™ Universal Low-Side Kit 1 – EZ-Ject™ assembly – plunger handle and fitting (TP-9845) 1 – 8" hose assembly, 1/4" flare check valve & R-134a coupler, low-side (TP-9847) 1 – R-12 adapter/purge fitting (107472) 1 – universal/POE A/C dye cartridge (TP-9870)
TP-9848	EZ-Ject™ R-134a/PAG Kit 1 – EZ-Ject™ assembly – plunger handle and fitting (TP-9845) 1 – 8" hose assembly, 1/4" flare check valve & R-134a coupler, low-side (TP-9847) 1 – R-12 adapter/purge fitting (107472) 1 – R-134a/PAG dye cartridge (TP-9860)
TP-9890	Mini-EZ™ R-134a/PAG Kit 1 – EZ-Ject™ assembly – plunger handle and fitting (TP-9845) 1 – 8" hose assembly, 1/4" flare check valve & R-134a coupler, low-side (TP-9847) 1 – R-12 adapter/purge fitting (107472) 6 – Mini-EZ™ 1/4 oz (7.4 ml) cartridges for R-134a/PAG systems (TP-9865-0601)
TP-9891	Mini-EZ™ Universal Kit 1 – EZ-Ject™ assembly – plunger handle and fitting (TP-9845) 1 – 8" hose assembly, 1/4" flare check valve & R-134a coupler, low-side (TP-9847) 1 – R-12 adapter/purge fitting (107472) 6 – Mini-EZ™ 1/4 oz (7.4 ml) cartridges that are compatible with all lubricant systems (TP-9875-0601)

EZ-Ject™ and Mini-EZ™ Dye Capsule Replacements – *What to Order*

Product Number	Description
TP-9860-0601	6 – EZ-Ject™ 1/2 oz (14.8 ml) cartridges for R-134a/PAG systems
TP-9870CS	1 – EZ-Ject™ 1/2 oz (14.8 ml) universal/POE cartridge compatible with all A/C systems
TP-9870-0601	6 – EZ-Ject™ 1/2 oz (14.8 ml) universal/POE cartridges compatible with all A/C systems
TP-9865-0601	6 – Mini-EZ™ 1/4 oz (7.4 ml) cartridges for R-134a/PAG systems
TP-9875-0601	6 – Mini-EZ™ 1/4 oz (7.4 ml) universal/POE cartridges compatible with all A/C systems

Tracer-Stick® Single-Dose Dye Capsules, R-134a Connect Set™ and Standard Hardware

Tracer-Stick® Capsules 2-Step Selection Guide

1. Read across and choose the column with the amount of refrigerant/lubricant in the system being leak-checked. Use multiple Tracer-Stick® capsules for larger systems.

Amount of Refrigerant	Up to 2.9 lb (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 (450 ml)	1 pt to 1.6 qt (0.5 to 1.5 L)	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 and Small Trucks	Large Trucks and Small Buses	Full-Size Buses and 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® universal/POE capsules are compatible with all 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/POE	TP-3870	TP-3875	TP-3876	TP-3877

What to Order

	Product Number	Description
R-12/Mineral Oil Systems	TP-3850-0601	6 - 0.03 oz (1 ml) capsules
	TP-3855-0601	6 - 0.5 oz (14.8 ml) capsules
	TP-3856-0601	6 - 0.5 oz (14.8 ml) capsules
	TP-3857-0601	6 - 0.5 oz (14.8 ml) capsules
R-134a/PAG Systems	TP-3860-0601	6 - 0.06 oz (1.9 ml) capsule
	TP-3865-0601	6 - 0.5 oz (14.8 ml) capsules
	TP-3866-0601	6 - 0.5 oz (14.8 ml) capsules
	TP-3867-0601	6 - 0.5 oz (14.8 ml) capsules
Universal/POE — for <u>All</u> A/C Systems	TP-3870-0601	6 - 0.06 oz (1.9 ml) capsules
	TP-3875-0601	6 - 0.5 oz (14.8 ml) capsules
	TP-3876-0601	6 - 0.5 oz (14.8 ml) capsules
	TP-3877-0601	6 - 0.5 oz (14.8 ml) capsules

How It Works

Choose the hardware you need according to whether SMALL CAPSULES (0.03 or 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

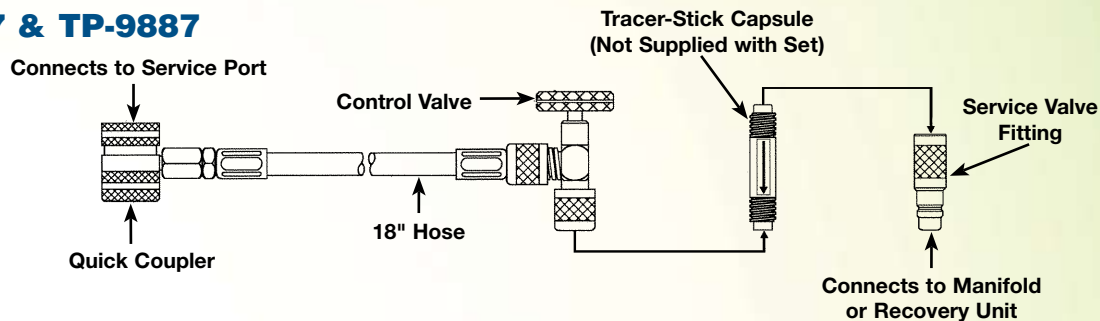
1. An R-134a Connect Set™ provides the easiest hookup method. Choose either LOW-SIDE or HIGH-SIDE connect set, **or**
2. Control valve and hose with quick coupler.



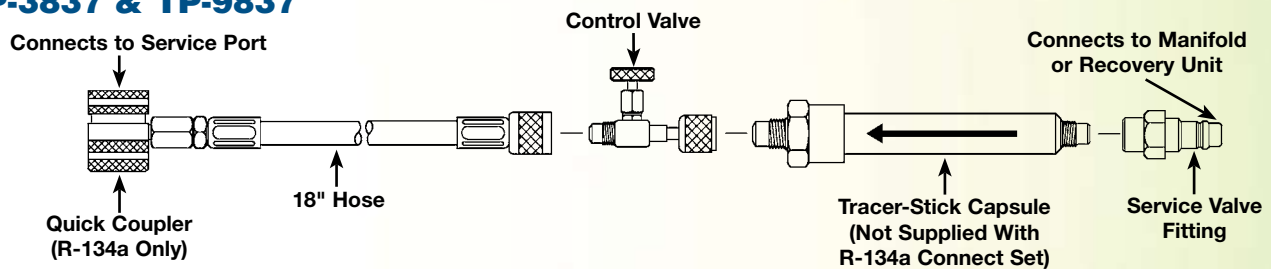
Dyes, Dyed Oils, Oils and Hardware for AC&R Systems

For these Tracer-Stick® Capsules	Use this R-134a Connect Set™ for	
	LOW SIDE	HIGH SIDE
TP-3860 (small capsules)	TP-3887 <i>Includes:</i> TP-9947 hose, TP-3888 coupler, TP-3889 fitting, TP-3861 valve	TP-9887 <i>Includes:</i> TP-9947 hose, TP-9888 coupler, TP-9889 fitting, TP-3861 valve
TP-3870 (small capsules)		
TP-3865, TP-3866 and TP-3867 (large capsules)	TP-3837 <i>Includes:</i> TP-9946 hose, TP-3888 coupler, TP-3838 fitting, TP-3851 valve	TP-9837 <i>Includes:</i> TP-9946 hose, TP-9888 coupler, TP-9838 fitting, TP-3851 valve
TP-3875, TP-3876 and TP-3877 (large capsules)		

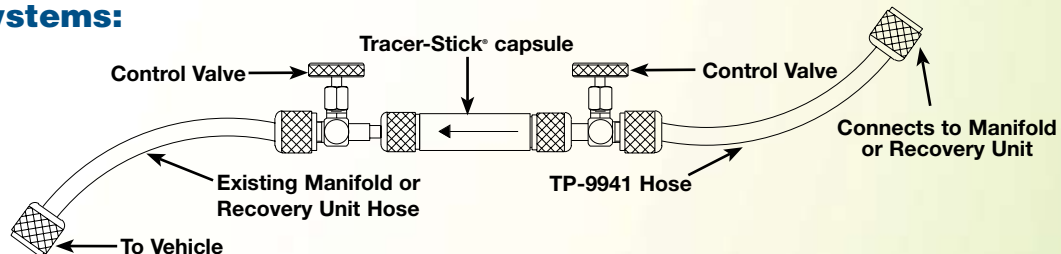
TP-3887 & TP-9887



TP-3837 & TP-9837



For R-12 Systems:



What to Order

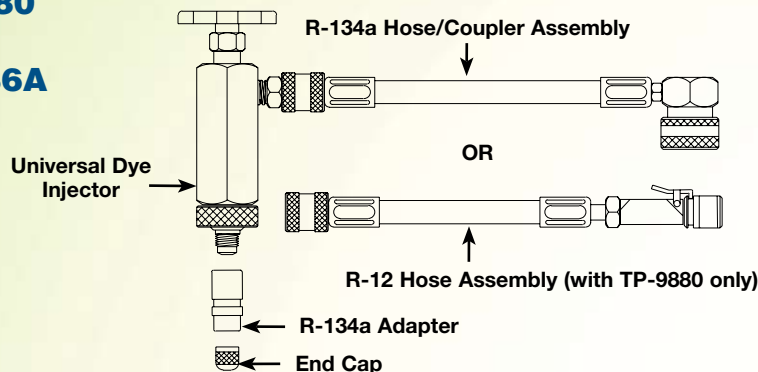
Tracer-Stick® Capsule	Refrigerant System	Use This Hose	Use This Valve (2 required)	Hose Connections
TP-3850 (small capsules), TP-3855, TP-3856, TP-3857 (large capsules)	R-12	TP-9941	TP-3851	1/4" flare
TP-3860 (small capsules)	R-134a/PAG	Use R-134a Connect Set TP-3887 (low-side) or TP-9887 (high-side)		
TP-3870 (small capsules)	R-134a/PAG and Ester			
TP-3870 (small capsules)	R-12	TP-9941	TP-3872	1/4" flare
TP-3875, TP-3876, TP-3877 (large capsules)	R-134a/PAG and Ester	Use R-134a Connect Set TP-3837 (low-side) or TP-9837 (high-side)		
TP-3875, TP-3876, TP-3877 (large capsules)	R-12	TP-9941	TP-3851	1/4" flare

Dyes, Dyed Oils, Oils and Hardware for AC&R Systems

Bottled Dyes and Dye Injectors

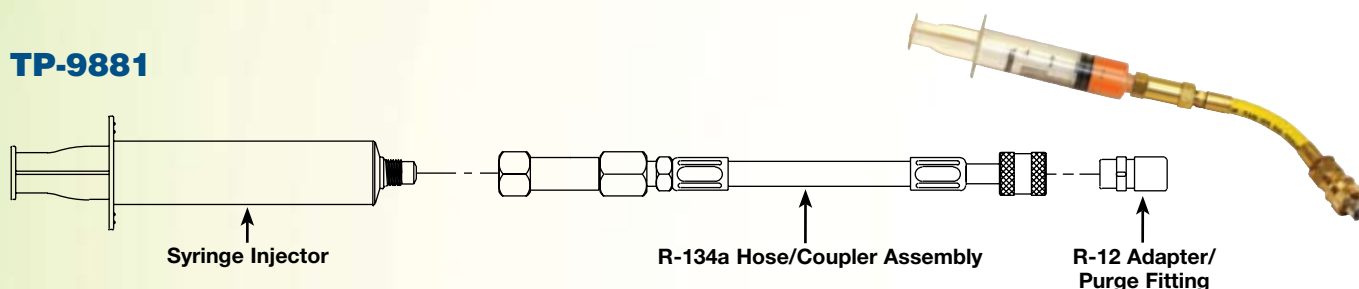
Hookup, Hardware and Bottled Dyes

TP-9880 & TP-3886A



TP-3885 Extension Set

TP-9881



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 ¼ oz (7.4 ml) (recommended for passenger cars) up to a maximum of 2 oz (59 ml) for larger AC&R systems, use the TP-3885 extension kit.

The TP-9880 universal A/C dye injector or TP-9881 syringe A/C dye injector can be used for ALL A/C dyes and systems. Includes ½" Acme and ¼" flare connection, with R-134a low-side quick coupler and R-12 adapter. Use any standard R-12 high-side adapter for high-side injection.

What to Order

Product Number	Description
TP-3849CS	Syringe A/C Dye Injection Kit 1 - TP-9881 syringe assembly with pressure check valve, hose, and R-134a coupler with R-12 adapter/purge fitting 1 - TP-3840-0001 1 oz (30 ml) bottle of Fluoro-Lite/E® universal/POE A/C dye for <u>all</u> mobile A/C systems
TP-3885	Extension Set increases the capacity of TP-9880 dye injectors from ¼ oz (7.4 ml) to 2 oz (59 ml) in ¼ oz (7.4 ml) increments
TP-3888	Quick coupler (LOW SIDE, R-134a only) for TP-9880 dye injectors and TP-9947 hose
TP-9880	Universal A/C Dye Injector (¼ oz (7.4 ml) capacity) with hoses and quick couplers for <u>all</u> systems
TP-9881	Syringe A/C Dye Injector with pressure check valve & hose for R-12 and R-134a
TP-9888	Quick Coupler (HIGH SIDE, R-134a only) for TP-9880 dye injector and TP-9947 hose
TP-9947	Hose with ½" Acme fittings — for TP-9880 dye injector

Dyes, Dyed Oils, Oils and Hardware for AC&R Systems

Fluoro-Lite® Bottled Dyes

Reminder:

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



SUGGESTED DILUTION RATIOS

Refrigerant/Lubricant	Product Number	Standard Vehicle	Larger AC&R Systems
R-134a/PAG	TP-3820	¼ oz (7.4 ml)	¼ oz (7.4 ml) for every 3 lbs (1 kg) of refrigerant OR ¼ oz (7.4 ml) for every 10 oz (300 ml) of lubricant
R-12/Mineral Oil	TP-3830		
Universal/POE — for <u>All</u> A/C Systems	TP-3840		

Fluoro-Lite® Bottled Dyes

What to Order

Refrigerant/Lubricant	Product Number	Description
R-134a/PAG Systems	TP-3820-12025	12 - ¼ oz (7.4 ml) bottles
	TP-3820-0601	6 - 1 oz (30 ml) bottles
	TP-3820-0008	1 - 8 oz (237 ml) bottle
	TP-3820-0016	1 - 16 oz (473 ml) bottle
	TP-3820-0032	1 - 32 oz (946 ml) bottle
R-12/Mineral Oil Systems	TP-3830-0601	6 - 1 oz (30 ml) bottles
	TP-3830-0016	1 - 16 oz (473 ml) bottle
	TP-3830-0032	1 - 32 oz (946 ml) bottle
Universal/POE — for <u>All</u> A/C Systems	TP-3840-12025	12 - ¼ oz (7.4 ml) bottles
	TP-3840-0601	6 - 1 oz (30 ml) bottles
	TP-3840-0008	1 - 8 oz (237 ml) bottle
	TP-3840-0016	1 - 16 oz (473 ml) bottle
	TP-3840-0032	1 - 32 oz (946 ml) bottle

Super Premium Universal/POE and PAG A/C Oils Premixed with UV Dye

Detect even the smallest leaks when used with any standard fluorescent leak detection lamp. Specially formulated for mobile air conditioning systems. These non-toxic, non-hazardous A/C oils contain super-bright, OEM-approved Fluoro-Lite® fluorescent dye and are *safe to use with all types of refrigerants and compressors*. In addition to exceptional R-134a miscibility, they also offer enhanced lubricity and stability with a proprietary additive package. Formulated with excellent anti-wear properties, these oils are perfect for preventive maintenance.

Universal/POE Oil with UV Dye

Compatible with R-134a and R-12 refrigerants. Designed for PAG and mineral oil air conditioning and refrigeration systems.

Product Number	Description
TD100E8	POE with UV dye, 8 oz (237 ml)
TD100EQ	POE with UV dye, 32 oz (946 ml)
TD100EG	POE with UV dye, 1 gallon (3.8 L)



PAG Oil with UV Dye

Specifically developed for OE and aftermarket R-134a A/C systems. Available in several viscosities

Product Number	Description
TD46P8	PAG 46 with UV dye, 8 oz (237 ml)
TD46PQ	PAG 46 with UV dye, 32 oz (946 ml)
TD46PG	PAG 46 with UV dye, 1 gallon (3.8 L)
TD100P8	PAG 100 with UV dye, 8 oz (237 ml)
TD100PQ	PAG 100 with UV dye, 32 oz (946 ml)
TD100PG	PAG 100 with UV dye, 1 gallon (3.8 L)
TD150P8	PAG 150 with UV dye, 8 oz (237 ml)
TD150PQ	PAG 150 with UV dye, 32 oz (946 ml)
TD150PG	PAG 150 with UV dye, 1 gallon (3.8 L)



Fluorescent Dyes for Fluid Leak Detection

Dye-Lite® All-In-One™ Full-Spectrum Oil Dyes

(U.S. Patent No. 6,165,384)

Unique formulations ideal for all oil-based fluids. Available in concentrated (TP-3400) and standard (TP-3405) formulas. Dye fluoresces yellow-green under both ultraviolet and blue light. TP-3400 available in 1 oz (30 ml), 8 oz (237 ml), 16 oz (473 ml), and 32 oz (946 ml) bottles. See price list for larger sizes. 1 oz (30 ml) bottles marked in 1/2 oz (14.8 ml) increments for easy pouring and measuring. TP-3405 available in 1 oz (30 ml) bottles only.



What to Order

FLUID	HOW MUCH TO USE				WHAT TO ORDER	
	U.S.	Metric	U.S.	Metric	Product Number	Description
Engine Oil (Includes Synthetics)	TP-3400	TP-3400	TP-3405	TP-3405	TP-3400-0001CS	1-1 oz (30 ml) bottle (Display Packaged)
Gasoline	1/2 oz per 4-6 qt	14.8 ml per 3.8-5.7 L	1 oz per 4-6 qt	30 ml per 3.8-5.7 L	TP-3400-0601	6-1 oz (30 ml) bottles
Diesel	1/2 oz per 4 qt	14.8 ml per 3.8 L	1 oz per 4 qt	30 ml per 3.8 L	TP-3400-2401	24-1 oz (30 ml) bottles
Power Steering	1/2 oz per 4 qt	14.8 ml per 3.8 L	1 oz per 4 qt	30 ml per 3.8 L	TP-3400-0008	1-8 oz (237 ml) bottle
Automatic Transmission	1 oz per 12 qt	30 ml per 11.4 L	2 oz per 12 qt	59 ml per 11.4 L	TP-3400-0016	1-16 oz (473 ml) bottle
Fuel (Gasoline and Diesel)	1 oz per 12-18 gal	30 ml per 45.4-68.1 L	2 oz per 12-18 gal	59 ml per 45.4-68.1 L	TP-3400-0032	1-32 oz (946 ml) bottle
Hydraulics (Synthetic- or Petroleum-Based) Light-to-Medium Colored Very Dark or Intensely Blue	1 oz per 8 gal 1 oz per 4 gal	30 ml per 30.3 L 30 ml per 15.1 L	2 oz per 8 gal 2 oz per 4 gal	59 ml per 30.3 L 59 ml per 15.1 L	TP-3405CS	1-1 oz (30 ml) bottle ① (Display Packaged)

① Must order in quantities of six

Dye-Lite® Application-Specific Dyes for Oil-Based Fluids

FLUID	HOW MUCH TO USE		WHAT TO ORDER		Fluorescent Color
	U.S. 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 TP-3090-2401 TP-3090-0016 TP-3090-0032	6 – 1 oz (30 ml) bottles 24 – 1 oz (30 ml) bottles 1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle	Yellow/Green
Diesel Engine Oil	4 to 5 qt	3.8 to 4.7 L	TP-3100-0601 TP-3100-2401 TP-3100-0016 TP-3100-0032	6 – 1 oz (30 ml) bottles 24 – 1 oz (30 ml) bottles 1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle	
Fuel (Gasoline and Diesel)	10 gal	37.9 L	TP-3700-0601 TP-3700-2401 TP-3700-0016 TP-3700-0032	6 – 1 oz (30 ml) bottles 24 – 1 oz (30 ml) bottles 1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle	
Automatic Transmission/ Power Steering	6 qt	15 to 22.7 L 3.8 L	TP-3200-0601 TP-3200-2401 TP-3200-0016 TP-3200-0032	6 – 1 oz (30 ml) bottles 24 – 1 oz (30 ml) bottles 1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle	
Hydraulics and Oils (Synthetic- or Petroleum-Based) Light-colored Hydraulic Fluid Very Dark or Intensely Blue Hydraulic and Lubrication Fluids Compressor Oil Engine Oil Gearbox Oil	8 gal	30.3 L	TP-3330-0016 TP-3330-0100	1 – 16 oz (473 ml) bottle 1 – 1 gallon (3.8 L) pail	Green
	4 gal	15.1 L	TP-3340-0016* TP-3340-0100*	1 – 16 oz (473 ml) bottle 1 – 1 gallon (3.8 L) pail	Blue
	4 gal	15.1 L			
	3 gal	11.4 L			
Hydraulics and Oils (Petroleum-Based (Light)) Hydraulic Compressor Oil	4 to 6 gal	15 to 22.7 L 3.8 L	TP-3350-0016 TP-3350-0032 TP-3350-0100 TP-3350-0500	1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle 1 – 1 gallon (3.8 L) pail 1 – 5 gallon (19 L) pail	Yellow/Green
	1 gal				
	4 to 6 gal	15 to 22.7 L 3.8 L	TP-3375-0016 TP-3375-0032 TP-3375-0100 TP-3375-0500	1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle 1 – 1 gallon (3.8 L) pail 1 – 5 gallon (19 L) pail	
	1 gal	3.8 L			
Synthetic (Ester)-Based	4 to 6 gal	15 to 22.7 L	TP-3325-0016 TP-3325-0032	1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle	

* Use with UV lamps only

Fluorescent Dyes for Fluid Leak Detection

Dye-Lite® Application-Specific Dyes (for Water-Based Fluids)



What to Order

FLUID	HOW MUCH TO USE		WHAT TO ORDER		Fluorescent Color
	U.S. 1 oz per	Metric 30 ml per	Product Number	Description	
Engine Coolant and Auto Body Leak Check*	6 gal	23 L	TP-3900-0001CS TP-3900-0008 TP-3900-0016 TP-3900-0032 TP-3900-0100 TP-3900-0500 TP-3900-0601 TP-3900-12025 TP-3900-2401	1 – 1 oz (30 ml) bottle 1 – 8 oz (237 ml) bottle 1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle 1 – 1 gal (3.8 L) pail 1 – 5 gal (19 L) pail 6 – 1 oz (30 ml) bottles 12 – ¼ oz (7.4 ml) bottles 24 – 1 oz (30 ml) bottles	Green
Clear-Blue™ Extended Life Coolant Dye (Ford-approved)	4 gal	15 L	TP-3920-0008 TP-3920-0016 TP-3920-0032 TP-3920-0601	1 – 8 oz (237 ml) bottle 1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle 6 – 1 oz (30 ml) bottles	Blue
Rite-Blend™ Extended Life Coolant Dye (GM-approved)	6 gal	23 L	TP-3940-0008 TP-3940-0016 TP-3940-0032 TP-3940-0601	1 – 8 oz (237 ml) bottle 1 – 16 oz (473 ml) bottle 1 – 32 oz (946 ml) bottle 6 – 1 oz (30 ml) bottles	Green

* For auto body leak checks, mix dye in proper dilution with water and use the TracerJet™ spray gun (TP-1131) to 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 leaks.



TP-3900

Leak detection dye for all engine coolants and auto body leak checks. Works with any leak detection inspection lamp.



**Clear-Blue™
TP-3920**

Leak detection dye for all engine coolants, including extended-life coolants. **Ford-approved.** Requires a long-wave UV lamp such as the Tracerline® TP-1390, TP-1600P, TP-1700P, TP-8690UV or TP-35000. Will not discolor the coolant, which could lead to misdiagnosis of engine problems.



**Rite-Blend™
TP-3940**

Blended leak detection dye for all engine coolants, including extended-life coolants. **GM-approved.** Works with any fluorescent leak detection inspection lamp. Will not discolor the coolant, which could lead to misdiagnosis of engine problems.

GLO-AWAY™ Dye Cleaner

GLO-AWAY™ Dye Cleaner

GLO-AWAY™ dye cleaner removes all traces of dye from repaired leak sites so repairs can be verified. It is water-based, nontoxic, non-flammable, 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
TP-9000-0008	1 – 8 oz (237 ml) spray bottle
TP-9000-0016	1 – 16 oz (473 ml) refill bottle
TP-9000-1208	12 – 8 oz (237 ml) spray bottles
TP-9000-1216	12 – 16 oz (473 ml) refill bottles



Green Fact!

Going green has never been easier! Finding system leaks quickly not only saves you time and money, but also protects the environment from harmful contaminants.

Tracerline® fluorescent dyes are safe, economical and highly effective in detecting even the smallest leaks in any system. They come in a wide variety of dye formulations, including custom blends, to match each specific application. This means that they can work with any host fluid or refrigerant, without damaging its properties or system components.

Best of all, unlike other methods, fluorescent leak detection allows you to pinpoint the exact location of leaks—even multiple leaks—the first time and every time, with just one simple application!

Clamshell Packaged Products



TP-1124CS LeakFinder™ Kit for Fluid Systems

Includes the 12-volt, 50-watt TP-1100 UV/Blue™ lamp, Dye-Lite® All-In-One™ concentrated fluorescent dye for all oil-based fluids and Dye-Lite® coolant/auto body dye. Fluorescence-enhancing glasses included.



TP-1135CS LeakFinder™ Wind and Water Gun & Dye Kit

Includes the TracerJet™ spray gun and 8 oz (237 ml) bottle of Dye-Lite® fluorescent water dye.



LeakFinder™ BigEZ™ 4 oz (118 ml) Fluorescent A/C Dye Cartridges

Also fit most popular caulking gun and pump-type dye injectors. Treat up to 32 vehicles.

TP-9770-0004CS Universal/POE

TP-9760-0004CS R-134a/PAG

TP-9750-0004CS R-12/Mineral Oil



TP-3849CS LeakFinder™ A/C Syringe Injector Kit

Includes the TP-9881 syringe injector, hose/coupler with check valve, purge fitting and 1 oz (30 ml) bottle of Fluoro-Lite® universal/POE A/C dye.



TP-25 Drip Plugs

Made of special absorbent foam to soak up residual dye in low-side hose coupler. Prevent messy toolboxes. Keep hands dye-free. Come 25 to a pack.



TP-9841CS EZ-Ject™ Injector Kit for All A/C Systems

Includes the EZ-Ject injector assembly, R-134a hose/coupler with check valve, purge fitting and one 1/2 oz (14.8 ml) cartridge filled with Fluoro-Lite® universal/POE A/C dye. Treats up to 14 vehicles.



TP-9870CS EZ-Ject™ Universal/POE A/C Dye Cartridge

Works with all refrigerants. 1/2 oz (14.8 ml) cartridge treats up to 14 vehicles.

Clamshell Packaged Products



Dye-Lite® 1 oz (30 ml) Refill Bottles

TP-3400-0001CS

All-In-One™ concentrated dye for all oil-based fluids. Services 2 vehicles.

TP-3405CS

All-In-One™ standard dye for all oil-based fluid systems. Services 1 vehicle.

TP-3840-0001CS

Fluoro-Lite® universal/POE dye for all A/C systems.

TP-3900-0001CS

Dye-Lite® dye for all water-based coolants.



TP-9742CS

LeakFinder™ BigEZ™ Injector Kit for All A/C Systems

Includes a 4 oz (118 ml) BigEZ™ cartridge with Fluoro-Lite® universal/POE A/C dye and injector assembly plus complete hardware. Treats up to 32 vehicles.



TP-8620CS

OPTI-Lite™

Cordless, compact, economy blue light leak detection flashlight. Features 6 bright LEDs with 100,000-hour service life. Inspection range of up to 2 feet (0.6 m). Fluorescence-enhancing glasses and 3 “AA” batteries included.



TP-9741CS

LeakFinder™ BigEZ™ Injector Kit for R-134a/PAG A/C Systems

Same as TP-9742CS except with an R-134a/PAG dye cartridge. The same A/C dye that is factory installed in new cars by auto makers in the U.S., Japan, Europe, China, Korea, Brazil and Mexico!



TP-8640CS

OPTIMAX Jr™

Powerful, ultra-compact, cordless blue light LED leak detection flashlight. Features super-bright LED with 100,000-hour service life. Inspection range of up to 6 feet (1.8 m). Fluorescence-enhancing glasses and 3 “AA” batteries included.



TP-8670CS

Quad Max Pro™

Flexible, multi-function LED leak detection lamp with adjustable service mirror. Three lamp positions: UV/White/Off (3 UV LED's for leak detection and 1 white LED light for regular inspection, all 100,000-hour service life bulbs). Powered by 3 “AAA” batteries (included). Fluorescence-enhancing glasses included.

Replacement Parts & Accessories

What to Order

107472	R-12 adapter/purge fitting
120654	Service mirror for TP-8650 and TP-8670CS lamps
120771	A/C dye syringe injector
120884	8-oz. non-refillable pump spray bottle GLO-AWAY™ dye cleaner
122466	Battery charger for TP-8680 lamp
122592	Battery stick for TP-8680 lamp
123775	Inspection mirror for TP-9350 and TP-935036
123802	Replacement sensor for TP-9360
123803	(20) tip filters for TP-9360
124106	Ultrasonic receiver for TP-9370 and TP-9371
124107	Headphones for TP-9370 and TP-9371
124108	Air probe for TP-9370 and TP-9371
124109	Contact probe for TP-9370 and TP-9371
124482	LED assembly for TP-8690 flashlight
124483	Battery stick with tail-cap for TP-8690 flashlight
124765	Magnet for TP-9350 and TP-935036 borescope
124821	Bulb for TP-1300 Lamp
125112	Inspection mirror for TP-9354 borescope
125113	Magnet for TP-9354 borescope
125608	Battery stick with tail-cap for TP-8690UV flashlight
TP-25	Drip plugs for low-side hose coupler
TP-1050	Filter lens for TP-1200P, TP-1600P and TP-35000 series lamps
TP-108231	Repair kit for TP-3887 R-134a connect set
TP-108235	(6) O-rings for TP-3851, TP-9937, TP-9941, TP-9946
TP-108236	(6) O-rings for TP-3861, TP-3871, TP-3872, TP-9942, TP-9947
TP-1140	Medium carrying case for TP-1125, TP-1126, TP-8120, TP-8122, TP-8220, TP-8225, TP-8226 TP-8626, TP-8646, TP-8647HD, TP-8687HD and TP-8697HD lamp kits
TP-1141	Medium carrying case for TP-1121 LeakFinder™ kit
TP-1142	Large carrying case for TP-8000 and TP-8000A series lamp kits, TP-1130 and TP-8648 kits
TP-1143	Small carrying case for TP-1127, TP-8627, TP-8647, TP-8649, TP-8677, TP-8687 and TP-8689 lamp kits
TP-1210	Bulb (1) 120V, 120W for TP-1200P lamp
TP-1340	Extra-large carrying case for MAXIMA™ series lamp kits
TP-1509	Portable rechargeable battery pack for 12-volt lamps with cigarette lighter plugs for TP-1100H, TP-8000AH, TP-8000AX, TP-35000M 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-1510-0001	Bulb (1) 12V, 50W for TP-1500P, TP-1700A, TP-1700P and TP-8200 lamps
TP-1510-0003	Bulb (3) 12V, 50W for TP-1500P, TP-1700A, TP-1700P and TP-8200 lamps
TP-1517	Adapter cord , 1-ft with cigarette lighter receptacle and alligator clips for TP-1100H, TP-8000AH and TP-8000AX lamps
TP-1518	Extension cord , 12-ft with cigarette lighter receptacle and plug for TP-8000H, TP-8000AH lamp and TP-8000AX lamps
TP-1610	Bulb (1) 120V, 150W for TP-1600P lamp
TP-1640	Extra-large plastic carrying case for TP-1600P lamp
TP-1712	Filter lens for TP-1700A lamp and TP-1700P lamp
TP-1810	Bulb (1) 12V, 35W for TP-1800 lamp
TP-35100	Spot bulb/reflector assembly for TP-35000 and TP-35000M spot series lamps
TP-35100F	Flood bulb/reflector assembly for TP-35000 (FLOOD) and TP-35000M (FLOOD) series lamps
TP-35110D	Diffusing filter for TP-35000 and TP-35000M series lamps
TP-8010-0001	Bulb (1) 12V, 100W for TP-8000, TP-8000A, TP-8000H, TP-8000AH and TP-8000AX lamps
TP-8010-0003	Bulb (3) 12V, 100W for TP-8000, TP-8000A, TP-8000H, TP-8000AH and TP-8000AX lamps
TP-8011	Filter lens for TP-8000, TP-8000A, TP-8000H, TP-8000AH and TP-8000AX lamps
TP-8115	Bulb (1) 12V, 50W for TP-8100 and TP-8200A lamps
TP-8211	Filter lens for TP-8100 lamp
TP-8211A	Filter lens assembly for TP-8200A lamp
TP-8303	Filter assembly for TP-8302 lamp (While supplies last)
TP-8307	Holster for TP-8300, TP-8302 and TP-8640 lamps
TP-8308	Battery for TP-8300 and TP-8302 lamps (While supplies last)
TP-8310	Bulb (1) 6W for TP-8300 and TP-8302 lamps
TP-8311	Filter, reflector assembly for TP-8300 lamp (While supplies last)
TP-9939	UV-absorbing glasses
TP-9940	Fluorescence-enhancing glasses
TP-9943	UV-absorbing goggles
TP-9948	Oil dispenser for oil cartridges

Warranty Information

Warranty

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 twelve (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

In an effort to provide continuous product improvements, Tracer Products reserves the right to discontinue products and to change product design and specifications without notice. Tracer Products is under no obligation to make similar changes in its products previously produced.

PRO-Alert™ Electronic Refrigerant Leak Detector ONLY:

Two-year warranty Tracer Products warrants that the PRO-Alert™ Electronic Refrigerant Leak Detector, when delivered, will be free from defects in manufacture.

Tracer Products' obligation under this warranty is limited to repairing or replacing, at our option, 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 two (2) years from the date of delivery.

Tracer Products does not warrant items that deteriorate under normal use, including power cells, sensors and filters. In addition, Tracer Products does not warranty any instrument that has been subjected to misuse, negligence or accident, or has been repaired or altered by anyone other than Tracer Products.

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 here. 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.

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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Order Information • Technical Assistance
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(Outside the U.S. and Canada:
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Product Index

Product No.	Page	Product No.	Page	Product No.	Page	Product No.	Page
TD46P8	22	TP-3375-0032	23	TP-3889	19	TP-9762-0108	16
TD46PG	22	TP-3375-0100	23	TP-3900-0001	4, 5, 7, 8, 10, 11	TP-9763-0108	16
TD46PQ	22	TP-3375-0500	23	TP-3900-0001CS	24, 27	TP-9764-0108	16
TD100E8	22	TP-3400-0001	4, 5, 7, 8, 10, 11	TP-3900-0008	24	TP-9770	15
TD100EG	22	TP-3400-0001CS	23, 27	TP-3900-0016	24	TP-9770-0004	5, 8, 18
TD100EQ	22	TP-3400-0008	6, 23	TP-3900-0032	24	TP-9770-0004CS	16, 26
TD100P8	22	TP-3400-0016	23	TP-3900-0601	24	TP-9770-0108	4, 8, 16
TD100PG	22	TP-3400-0032	23	TP-3900-2401	24	TP-9771-0108	16
TD100PQ	22	TP-3400-0601	23	TP-3920-0008	24	TP-9790	5, 14, 16
TD150P8	22	TP-3400-2401	23	TP-3920-0016	24	TP-9837	14, 19
TD150PG	22	TP-3405CS	5, 23, 27	TP-3920-0032	24	TP-9841CS	14, 17, 26
TD150PQ	22	TP-3700-0016	23	TP-3920-0601	24	TP-9845	5, 8, 10, 11, 19
TP-25	26, 28	TP-3700-0032	23	TP-3940-0008	24	TP-9847	20
TP-1050	28	TP-3700-0601	23	TP-3940-0016	24	TP-9848	14, 17
TP-1100	7, 10	TP-3700-2401	23	TP-3940-0032	24	TP-9860	17
TP-1121	7	TP-3820	21	TP-3940-0601	24	TP-9860-0601	17
TP-1124CS	26	TP-3820-0008	21	TP-8000A	7, 10	TP-9865-0601	17
TP-1126	7	TP-3820-0016	21	TP-8010-0001	28	TP-9870CS	17, 26
TP-1127	7, 28	TP-3820-0032	21	TP-8010-0003	28	TP-9870-0601	17
TP-1135CS	26	TP-3820-0601	21	TP-8011	28	TP-9875-0601	17
TP-1140	5, 6, 8, 28	TP-3820-12025	21	TP-8115	28	TP-9880	14, 20
TP-1141	8, 28	TP-3830	21	TP-8211	28	TP-9881	7, 14, 20
TP-1142	6, 28	TP-3830-0016	21	TP-8211A	28	TP-9887	14, 19
TP-1143	5, 7, 8, 28	TP-3830-0032	21	TP-8307	28	TP-9888	19, 20
TP-1210	28	TP-3830-0601	21	TP-8620CS	4, 11, 27	TP-9889	19
TP-1300	7, 10	TP-3837	14, 19	TP-8621	6	TP-9890	14, 17
TP-1340	9, 28	TP-3838	21	TP-8626	6	TP-9891	14, 17
TP-1390	9, 10	TP-3840	21	TP-8627	5	TP-9939	4, 9, 28
TP-1390M	9, 10	TP-3840-0001	8, 22	TP-8640CS	4, 11	TP-9940	4, 5, 6, 7, 28
TP-1392	9	TP-3840-0001CS	27	TP-8646	5	TP-9941	19
TP-1393	9	TP-3840-0008	21	TP-8647	5	TP-9943	28
TP-1395	9	TP-3840-0016	21	TP-8647HD	8	TP-9946	19
TP-1396	9	TP-3840-0032	21	TP-8648	6	TP-9947	19, 20
TP-1509	9, 12, 28	TP-3840-0601	21	TP-8649	5	TP-9948	28
TP-1510-0001	28	TP-3840-12025	21	TP-8670CS	4, 11, 27	TP-35000	9, 10
TP-1510-0003	28	TP-3849CS	20, 26	TP-8697HD	8	TP-35000M	9, 10
TP-1517	4, 7, 12, 28	TP-3850	18, 19	TP-8690	4, 11	TP-35020	9, 10
TP-1518	28	TP-3850-0601	18	TP-8690UV	4, 11	TP-35029M	9, 10
TP-1600P	9, 10	TP-3851	19	TP-9000-0008	25	TP-35000FL	9, 28
TP-1610	28	TP-3855	18, 19	TP-9000-0016	25	TP-35000RS	9
TP-1620	9	TP-3855-0601	18	TP-9000-1208	25	TP-35100	9, 28
TP-1640	9, 28	TP-3856	18, 19	TP-9000-1216	25	TP-35110D	9, 28
TP-1700P	9, 10	TP-3856-0601	18	TP-9350	13	TP-108231	28
TP-1712	28	TP-3857	18, 19	TP-935036	13	TP-108235	28
TP-1810	28	TP-3857-0601	18	TP-9354	13	TP-108236	28
TP-3090-0016	23	TP-3860	18, 19	TP-9355	4, 11	107472	16, 17, 20, 28
TP-3090-0032	23	TP-3860-0601	18	TP-9360	12	120654	28
TP-3090-0601	23	TP-3861	19	TP-9370	12	120771	28
TP-3090-2401	23	TP-3865	18	TP-9371	15	120884	28
TP-3100-0016	23	TP-3865-0601	18	TP-9741	14, 16, 17	122466	28
TP-3100-0032	23	TP-3866	18, 19	TP-9741CS	16, 17, 27	122592	28
TP-3100-0601	23	TP-3866-0601	18	TP-9742	4, 5, 8, 14, 16	123775	28
TP-3100-2401	23	TP-3867	18, 19	TP-9742CS	16, 27	123802	28
TP-3200-0016	23	TP-3867-0601	18	TP-9743	16	123803	28
TP-3200-0032	23	TP-3870	18, 19	TP-9745	4, 5, 8, 15, 18	124106	28
TP-3200-0601	23	TP-3870-0601	18	TP-9746	15	124107	28
TP-3200-2401	23	TP-3872	19	TP-9747	4, 5, 6, 8, 15, 18	124108	28
TP-3325-0016	23	TP-3875	18, 19	TP-9748	15, 18	124109	28
TP-3325-0032	23	TP-3875-0601	18	TP-9749	4, 5	124441	28
TP-3330	23	TP-3876	18, 19	TP-9750	15	124482	28
TP-3340	23	TP-3876-0601	18	TP-9750-0004CS	16, 26	124483	28
TP-3325-0032	23	TP-3877	18, 19	TP-9750-0108	16	124765	28
TP-3350-0016	23	TP-3877-0601	18	TP-9760	15	124821	28
TP-3350-0032	23	TP-3885	20	TP-9760-0004	16	125112	28
TP-3350-0100	23	TP-3886A	14, 20	TP-9760-0004CS	16	125113	28
TP-3350-0500	23	TP-3887	14, 19	TP-9760-0108	16	125608	28
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