COMPACT UV LEAK LOCATOR KITS

Leading the way in UV LEAK DETECTION, Mastercool offers a variety of compact UV Leak Locator Kits. Each kit offers a powerful inspection lamp, a "Refillable" or "Cartridge Type" Dye Injector and accessories. All kits are packaged in a clamshell or custom molded carrying case.



TYPE OF TYPE OF INJECTOR LIGHT	KIT PART#	CONTENTS OF EACH KIT	VOLTAGE/WATT
53123 53012	53100	High Intensity Swivel Head Light, W/Refillable 2 oz Dye Injector, 2 oz Concentrated Universal A/C Fluorescent Dye (25 Applications), 4 oz Dye Remover, 25 Service Information Labels and UV Enhancing Safety Glasses	12 V/100 WATT
53223 53012	53100-C	Same as 53100, but with Replaceable 2 oz Dye Cartridge (25 Applications)	12V/100 WATT
53123 53411	53450 53450-220	High Intensity Cordless Rechargeable Light W/Battery Charger, Refillable 2 oz Dye Injector, 2 oz Concentrated Universal A/C Fluorescent Dye (25 Applications), 4 oz Dye Remover, 25 Service Information Labels and UV Enhancing Safety Glasses	110V/Rechrg/50 WATT 220V/Rechrg/50 WATT
53223 53411	53450-C 53450-220-C	Same as 53450, but with Replaceable 2 oz Dye Cartridge (25 Applications)	110V/Rechrg/50 WATT 220V/Rechrg/50 WATT
53123 53312	53500	High Intensity Mini Light W/Refillable 2 oz Dye Injector, 2 oz Concentrated Universal A/C Fluorescent Dye (25 Applications), 4 oz Dye Remover, 25 Service Information Labels and UV Enhancing Safety Glasses	12V/50 WATT
53223 53312	53500-C	Same as 53500, but with Replaceable 2 oz Dye Cartridge (25 Applications)	12V/50 WATT



UV LEAK LOCATOR KITS, UV LIGHTS & ACCESSORIES

Part# 53580





Part# 53351



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TYPE OF INJECTOR	TYPE OF Light	KIT PART#	CONTENTS OF EACH KIT	VOLTAGE/WATT
53809	53515	53580	MACH IV Flexible UV Light W/1 oz Dye Cartridge W/10 Applications of Universal A/C Fluorescent Dye, Low-Side Hose with R134a Coupler, R12 Adapter, 10 Service Information Labels and UV Enhancing Safety Glasses	12 V/100 WATT
53809	53515	53585	Same as 53580, but with 1 oz OIL/ATF/Gas and Deisel Fluorescent Dye and 1 oz Engine Coolant Fluorescent Dye	12V/100 WATT
53809	53312	53351	High Intensity Mini Light with Replaceable 1 oz (10 Application) Dye Cartridge, A/C Connection Hose W/R134a Coupler, R12 Adapter, 1 oz OIL/ATF/Gas and Deisel Fluorescent Dye, 1 oz Engine Coolant Dye, 4 oz Dye Remover, 25 Service Information Labels and UV Enhancing Safety Glasses	

53012 UV SWIVEL HEAD LIGHT (12V/100 WATT)

- 180° Swivel Head Gets Into Tight Places
- Instant ON
- Heavy Duty Metal Construction
- Includes UV Enhancing Safety Glasses



RECHARGEABLE UV LIGHT (12V/50 WATT)

53411

- High Intensity
- · Cordless with Rechargeable Battery
- Compact & Portable
- Includes UV Enhancing Safety Glasses

53412

• Same as 53411 (less battery cartridge and glasses)

53312 UV MINI LIGHT (12V/50 WATT)

- High Intensity
- · Compact & Lightweight
- Instant ON
- 16 ft Cord
- Includes UV Enhancing Safety Glasses



53413 BATTERY CARTRIDGE

(12V/50 WATT) This powerful rechargeable

battery holds a charge equal to 30 minutes of continuous use.



53414 110V/60 HZ 53414-220 220V/50-60 HZ



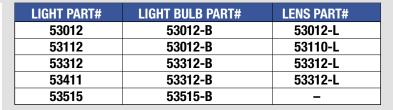
800-290-9798

53515 MACH IV FLEXIBLE UV LIGHT

The MACH IV flexible UV light has 4 TRUE **UV LEDS** delivering a brilliant fluorescent glow.

- Flexible Wand Gets into Tight Areas
- Rugged Ergonomic Grip
- Includes UV Enhancing Safety Glasses

PATENT# 6,647,761







53809 **MINI DYE INJECTOR**

"Cartridge Type" Dye Injector (10 Applications) Concentrated Dye.



53223 "CARTRIDGE TYPE" UNIVERSAL DYE/OIL INJECTOR

Adding dye with the new 53223 is fast and easy, simply connect the injector to the low side of the A/C system and twist the handle to the next application line. The replaceable cartridge provides 25 applications of universal dye that is compatible with R12/22/502 and R134a systems. The injector hose comes complete with a R134a coupler and auto shut-off valve adapter for 1/4"FL systems.



REFILLABLE UNIVERSAL DYE/OIL INJECTOR

To inject the oil or dye, simply connect the injector to the low side of the A/C system and twist the handle until you reach the desired amount. The injector hose comes complete with a R134a coupler and auto shut-off valve adapter for 1/4"FL systems.

REFILLABLE UNIVERSAL DYE INJECTOR 53123

with 2 oz Bottle of Concentrated A/C Dye (25 Applications)

53123-A REFILLABLE UNIVERSAL DYE/OIL INJECTOR (without dye)

REFILLABLE DYE INJECTOR 53134

> with (R134a 13mm Connection) and 2 oz Bottle of Concentrated A/C Dye (25 Applications)

REFILLABLE DYE INJECTOR 53322

> with (1/4" Auto Shut-off Valve Connection) and 2 oz Bottle of Concentrated A/C Dye (25 Applications)



OIL INJECTORS

Excellent method for adding refrigerant oil or large amounts of UV leak detection dye to the A/C system.

Add oil by allowing vacuum to pull it in after the evacuation process, or use refrigerant to push it in using the recharge system. Rugged all metal 2 oz canister. Available in standard or "easy connect" design. The standard models use a needle style valve attached between the manifold gauge set or charging equipment and A/C hose. The "easy connect" models use a ball valve design attached directly onto the end of the A/C hose. Model 82374 Includes a low-side coupler on the outlet hose. Model 92376 includes auto shut-off valve on the outside hose.

ULTRAVIOLET DYES

STANDARD UNIVERSAL A/C DYES

Pack 1/4 oz - 1 Application

92699 Standard Universal Dye

Six 1/4 oz Packs (6 pcs)

8 oz Bottle - 32 Applications

92708 R12/22/502 Standard Universal Dye

32 oz Bottle - 128 Applications

R12/22/502 Standard Universal Dye 92732

CONCENTRATED UNIVERSAL DYES

Replaceable Cartridge - 25 Applications

53825 **Universal Dye Cartridge**

Replaceable Cartridge - 10 Applications

53810 **Concentrated Dye Cartridge**

2 oz Bottle - 25 Applications

53625 **Universal Dye**

1 oz Bottle - 1 Vehicle Application per 16 quarts of fluid 53609 **Engine Coolant Fluorescent Dye (1 oz Bottle)**

1 oz Bottle - 1 Vehicle Application per 16 quarts of fluid

53610 **Oil/AFT/Gas Fluorescent Dye**

- · Engine Oil (Gas & Deisel) 1 Vehicle Application per 4-5 quarts of oil
- · Gasoline & Deisel Fuel
- 1 Vehicle Application per 2 gallons of fuel
- · Automatic Transmission Fluid 1 Vehicle Application per 4-5 quarts



92699



53810

53610

53625



ACCESSORIES

53314 DYE REMOVER - 4 0Z

53315 SERVICE LABELS - 25 per pack / bright yellow label indicating that the system has been charged with UV Dye

92398 UV ENHANCING SAFETY GLASSES

This is a must for protection against ultraviolet light during leak detection



STANDARD 82375 82375 1/2" ACME-M x 1/2" ACME-F (R134a) 90375 1/4" FFI x 1/4" MFI 90375

EASY CONNECT 82374 13mm-M x 13mm-F Low-Side Coupler 82374 (R134a) 92376 1/4" FFL x 1/4" MFL 92376

COMPRESSOR OILS

Maximum protection with excellent thermal & oxidative stability. Moisture tolerant, OEM approved.

53826 PAG 100 Oil (2 oz Cartridge) 92710 Ester Oil (8 oz bottle) 53827 Ester Oil (2 oz Cartridge) 92711 PAG 100 Oil (32 oz bottle) 92712 Ester Oil (32 oz bottle) 92709 PAG 100 Oil (8 oz bottle)



ELECTRONIC LEAK DETECTION

Mastercool introduces the "Next Generation" in Electronic Leak Detection!

The **55200 "INSPECTOR"** and **55100** offer revolutionary new features and state of the art micro processing technology. The new design sensor delivers an accurate and instantaneous response. Both units come in a heavy duty custom molded carrying case and meet SAE J1627 and CE conformity.

55200 / 55100 GENERAL FEATURES / SPECIFICATIONS

- Digital Signal Micro Processor
- Detects All Halogenated Refrigerants
- Flexible 16" Probe
- Keypad Control
- Power Supply (2 "C" Batteries)
- Auto Release Feature
- **Battery Test Feature**
- Variable Frequency Audible Alarm
- Meets SAE J1627 / CE Conformity
- Includes Custom Molded Carrying Case

55200 "INSPECTOR" 2 IN 1 ELECTRONIC / UV LEAK DETECTOR

This revolutionary new design allows the user to perform Electronic and UV Leak Detection all with one tool. The "INSPECTOR" offers six levels of sensitivity (15 levels of detection) with a tri-colored LED indicator. This allows the "INSPECTOR" to pin-point leaks as small as 1/10 oz per year. The ultra bright UV light is built into the end of the probe allowing easy access into tight areas. Incorporating both electronic and UV technology into one unit insures that even the toughest leaks can be found.

SPECIFIC FEATURES

- Ultra Bright UV/Blue LED Light
- UV Safety Glasses
- 6 Levels Of Sensitivity (15 Levels Of Detection)
- Tri-Colored Visual Leak Level Indicator
- Mute Function
- Detects Leaks As Small As 1/10 oz Per Year
- Detects All Refrigerants, CFC'S, HCFC'S, HFC'S
- Includes A Custom Molded Carrying Case

Part# Description

53515-B LED Bulb for 55200, 55300 & 55400







55100 ELECTRONIC LEAK DETECTOR

The 55100 offers an accurate and reliable solution to Electronic Leak Detection.

SPECIFIC FEATURES

- 3 Levels Of Sensitivity (5 Levels Of Detection)
- Visual Leak Level Indicator
- Detects Leaks As Small As 1/10 oz Per Year
- Detects All Refrigerants, CFC'S, HCFC'S, HFC'S
- Includes a Custom Molded Carrying Case

Part# Description

55100-SEN Sensor Tip for 55100, 55200, 55300 & 55400

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55300 COMPLETE ELECTRONIC & UV LEAK DETECTION KIT

This kit offers the "INSPECTOR" along with our UV Dye Injection System. Our cartridge type dye injector is fast and easy to use. Just twist the handle to inject the appropriate amount of dye. The **55300** kit is the ultimate solution for all your A/C leak detection needs.

SPECIFIC FEATURES

- 55200 "INSPECTOR" Electronic Leak Detector
- UV Dye Injector W/25 Application Dye Cartridge
- Dye Injector Connection Hose W/R12 Adapter
- Dye Cleaner & UV Safety Glasses

55310 - Same as 55300

(with 10 Application Dye Cartridge)



55400 COMPLETE ELECTRONIC & UV LEAK DETECTION KIT

This kit offers the **"INSPECTOR"** along with our UV Dye Injection System. Our **refillable** dye injector is fast and easy to use. Just twist the handle to inject the appropriate amount of dye. The **55400** kit is the ultimate solution for all your A/C leak detection needs.

SPECIFIC FEATURES

- 55200 "INSPECTOR" Electronic Leak Detector
- · Refillable Dye Injector
- Dye Injector Connection Hose W/R12 Adapter
- 2 oz Bottle of Concentrated Universal Dye
- UV Safety Glasses & Dye Cleaner









55500 ELECTRONIC LEAK DETECTOR W/HEATED SENSOR

Mastercool broadens it's line by introducing it's NEW Heated Sensor Electronic Leak Detector. The **HEATED SENSOR** technology delivers fast and accurate results while eliminating non-refrigerant false alarms. The flexible 15" probe has a patented UV Blue Light built into the tip allowing dual UV and Electronic Leak Detection. This unit also includes an additional 5" flexible probe adapter for leak detection in smaller diameter areas.

55500 Electronic Leak Detector W/110V Battery Charger **55500-220** Electronic Leak Detector W/220V Battery Charger

SPECIFICATIONS:

• Operating Temp: 32° to 125°F

Power Supply:
 Battery Life:
 2 C-Size 1.2V Ni-MH Battery
 8 hrs per cycle (1000 cycles)

Warm-Up Time: 25 Seconds
Probe/Core Length: 15"
Dimension: 7" x 7"
Weight: 1.10 lbs

• Ultimate Sensitivity: 1/10 oz per year

FEATURES:

LED Leak Size Display

• Blue UV LED Light

Rechargeable

Ni-MH Battery

Six Sensitivity Levels
 Automatic Warm Up
 Reset Function
 Dual-colored Visual
 Low Battery Indicator
 High Volume Pump
 5" Probe Extension
 3 Year Limited Warranty

 Detects all Refrigerants (CFC's, HCFC's, HFC's)

• Meets and Exceeds SAE J1627

Made in USA



55750 COMBUSTIBLE GAS LEAK DETECTOR

Mastercool introduces it's new hand-held combustible gas leak detectors. Offering the most advanced sensor technology with a state-of-the-art microprocessor, these units detect leaks fast and accurately. The flexible 15" probe has a bright LED light built into the tip for easy viewing in hard to reach locations. The membrane switch panel offers easy one touch control and operation. Each of the six levels of sensitivity has an audible alarm and visual indicator to identify leak activity. These units include the newest rechargeable Ni-MH battery (nearly double the power of existing Ni-Cad batteries) and comes in a custom molded case.

55750 Combustible Gas Leak Detector W/110V Battery Charger55750-220 Combustible Gas Leak Detector W/220V Battery Charger



SPECIFICATIONS:

Operating Temp: 32° to 125°F

Power Supply: 2 C-Size 1.2V Ni-MH Battery
 Battery Life: 8 hrs per cycle (1000 cycles)

Warm-Up Time: 25 secondsProbe/Core Length: 15"

Dimension: 7" X 7"Weight: 1.10 lbs

• Ultimate Sensitivity: 50 – 1000 ppm

FEATURES:

• Six Sensitivity Levels

Automatic Warm Up

- Reset Function
- Bright LED Light
- Audible Leak Alarm
 & Visual Leak Size Indicator
- Rechargeable Ni-MH Battery
- Low Battery Indicator
- Custom Molded Carrying Case
- Made in USA



PATENT# 6,647,761



INFRARED THERMOMETERS

52224-A INFRARED THERMOMETER WITH LASER

The 52224-A offers laser targeting accuracy, enhanced back-lit LCD Display and an expanded temperature range. The compact design is simple to use and easy to store.

Temperature Range: -58°F to 932°F (-50°C to 500°C)

Field of View: 12:1

SPECIFICATIONS:

Non-Contact Temperature Range: -58 to 932°F (-50 to 500°C)

Field of View: 12:1

Display Illumination: Backlit LCD display
Target Indicator: Single Laser Spot

Emissivity: 0.98

Resolution: 0.5°F / 0.5°C

Accuracy: ±2°C (4°F) or ±2% of reading

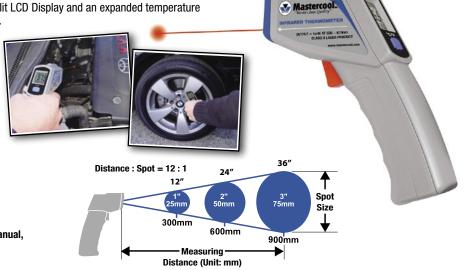
Response Time: 0.5 seconds

Power Off: Automatic after 15 seconds

Battery Life: Approx. 180 hrs.

Included Accessories: 2 AAA batteries, instruction manual,

plastic molded carrying case



52225-A DUAL TEMP PLUS INFRARED THERMOMETER

Features both infrared and contact thermometer technologies. Includes programmable HI/LO alarms and Lock Mode to capture temperature readings. The contact function offers a built-in K type jack and wire thermocouple.



SPECIFICATIONS:

Non-Contact Temperature Range:

Thermocouple Temperature Range:

Field of View:

Display Illumination:

Target Indicator:

Emissivity:

Resolution:

Modes: Accuracy:

Response Time:

Power Off:

Battery Life:

Included Accessories:

Optional Accessories:

-76 to 1400°F (-60 to 760°C)

-83 to 1999°F (-64 to 1400°C)

30:1

Backlit LCD display

Single Laser Spot

0.10(10E) to 1.0 (100E)

0.1°F / 0.1°C

MIN, MAX, DIFF & AVG

±2% of reading

1 second

Automatic after 60 seconds

Approx. 180 hrs.

2 AAA batteries, 3 ft. thermocouple probe, instruction manual, plastic

molded carrying case

10 ft. Wire Thermocouple Probe.

Piercing Penetration Probe, Surface

Probe, Air Probe

52224-B DUAL TEMP INFRARED THERMOMETER

Features both infrared and contact thermometer technologies. Includes programmable HI/LO alarms and Lock Mode to capture temperature readings. The built-in K type jack offers optional contact functions.



SPECIFICATIONS:

Non-Contact Temperature Range:

Thermocouple Temperature Range:

Field of View:

Display Illumination:

Target Indicator:

Emissivity:

Resolution:

Modes:

Accuracy:

Response Time:

Power Off:

Battery Life:

Included Accessories:

Optional Accessories:

-76 to 1200°F (-60 to 648°C)

-83 to 1999°F (-64 to 1400°C)

15 : 1

Backlit LCD display

Single Laser Spot

0.10(10E) to 1.0 (100E)

0.1°F / 0.1°C

MIN, MAX, DIFF & AVG

±2% of reading

1 second

Automatic after 60 seconds

Approx. 180 hrs.

2 AAA batteries, instruction manual,

plastic molded carrying case 3ft., 10 ft. Wire Thermocouple

Probe, Piercing Penetration Probe, Surface Probe, Air Probe





52225-B ULTRA TEMP DUAL LASER THERMOMETER

Features both infrared and contact thermometer technologies, Includes programmable HI/LO alarms, and Lock Mode to capture temperature readings. The built-in K type jack offers optional contact functions. Illuminates working area with built-in LED light.

Non-Contact Temperature Range:

-76 to 1832°F (-60 to 1000°C)

Field of View: 50:1

SPECIFICATIONS:

Non-Contact Temperature Range: Thermocouple Temperature Range:

Field of View: **Display Illumination: Target Indicator: Emissivity: Resolution:** Modes: Accuracy: **Response Time:**

Battery Life:

Power Off:

Included Accessories:

Optional Accessories:

-76 to 1832°F (-60 to 1000°C) -83 to 1999°F (-64 to 1400°C)

Backlit LCD display Dual Laser Spot 0.95

0.1°C / 0.1°F

MIN, MAX, DIFF & AVG ±2% of reading 1 second

Automatic after 60 seconds

Approx. 180 hrs.

2 AAA batteries, instruction manual, plastic

molded carrying case

3ft, 10 ft. Wire Thermocouple Probes, Piercing Penetration Probe, Surface Probe, Air Probe,

Removable Magnetic Base



All thermometers include pocket holder and clip.

Pocket Analog Designs

Item#	Dial Size	Temperature Scale
52220	1"	0 to 220°F
52161	1 3/8"	-40 to 160°F
91120	1 3/4"	0 to 220°F

Pocket Digital Design

Item# **Dial Size Temperature Scale** -58 to 302°F 52223-A 1"

Battery operated (1.5V, life of 5000 hours), on/off and auto shut-off after 10 minutes.



52226 DUAL TEMP INFRARED THERMOMETER

The **52226** Dual Temp Thermometer offers both Infrared and Contact Probe technologies.

- Infrared Temperature Range: -67°F to 428°F
- · Probe Temperature Range: -67°F to 626°F
- Field of View Ratio 1:1
- Adjustable Emissivity
- · Back-lit LCD Display
- LOCK MODE for Hands Free Scanning
- · Minimum / Maximum Capture Mode
- Contact Probe Locks Safely into the Side of the Unit

52227 INFRARED THERMOMETER

The **52227** Pocket Infrared Thermometer offers accurate non-contact temperature measurement in a compact and easy to use size.

- Temperature Range: -67°F to 428°F
- Field of View Ratio 1:1
- · Adjustable Emissivity
- · Back-lit LCD Display
- Minimum / Maximum Capture Mode



52333 Piercing/Penetration Probe



OPTIONAL PROBES

52331 Wire Thermocouple Probe – 3 ft (1m)

52332 Wire Thermocouple Probe 10 ft (3m)





