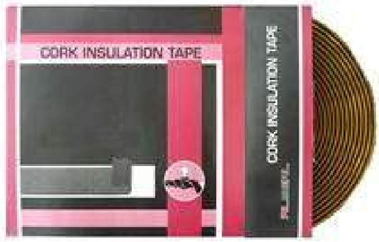
Gamela
Enterprise Co., Ltd.
Welcome to our site...

AUTO AIR CONDITIONING TOOLS

Auto Air Conditioning Tools | Auto Tools | Tube Tools | Pipe Cutter | Pliers | Tube Bender

AUTO TOOLS

Auto Engine Tools | Auto Speciality Tools | Auto Repair Tools

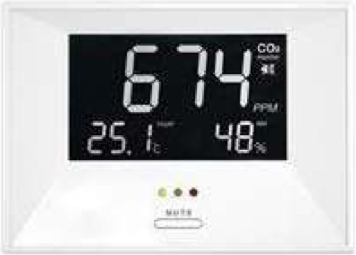
Auto Air Conditioning Tools	Auto Air Conditioning Tools
 Check Gauge **Cork Tape** 	A/C Adapter Kit Shut-off Valve, Valve Core Remove Spring Lock Coupling Tool Set Service Tool and Accessories Seal Service Sets (GM, FORD, CHRYSLER, NIPPONDENSO, TECUMESH, SANDEN, DIESEL KIKI, HITACHI, MITSUBISHI) Clutch Service Set(GM, CHRYSLER, FORD, NIPPONDENSO, SANDEN) Compressor Clutch & Seal Service Set(NIPPONDENSO) Seal & Clutch Tool Set (DIESEL KIKI, SANDEN) Master Import Service Set(DIESEL KIKI, HITACHI, MITSUBISHI, NIPPONDENSO, SANDEN) Compressor Clutch & Orifice Tube Tool (GM, CHRYSLER, FORD) A/C TOOLS Auto Ac Tool For Toyota Check Gauge Cork Tape 50450 Insulation Tape 50451

Auto Air Conditioning Tools	**Auto Air Conditioning Tools**
	Manifold Gauge Set & Hose for Refrigerant Shut off Valve/Charging Unit/Can Tap & Dispenser Quick Coupler/Valve Core Remover Installer Tool Valve Core & Valve Core Tools, 50318 Dye Injector/Oil Injector & Flush Kit Compressor Holding Tool/Fin Straightener/Stethoscope Laser Infrared Thermometer/Vacuum Gauge/Digital Refrigerant Scale Programmable Refrigerant Charging Scale 58608-8608Z Electronic Refrigerant Charging Scale 58609-58610 Stainless Steel Platform Kitchen Scale 58611 UV Light/LED UV Light Halogen Refrigerant Leak Detector REFRIGERANT LEAK DETECTOR 58137

Auto Tools	**Auto Tools**
	Thread Chaser Set Universal Outside Thread Chaser Set Vacuum Testing/Brake Bleeding Kit Magnetic Camber Gauge Multipurpose Bearing & Pulley Puller Set

Auto Test & Measurement	Auto Test & Measurement
	AC Clamp-on HVAC Meter Hygro-Thermo Meter Digital Thermometer AC/DC Clamp-on Meter AC Clamp-on Meter Analog Clamp-on Meter Digital Multimeter Temperature Probe 58986,58984,58983-58983T 58982,58979,58964,58929 58930,58998

Tube Tools	Tube Cutter
	Tubing Cutter/Bender Plastic Pipe Cutter Tube/Pipe Cutter 1, 2, 3, 4, 5 Mini Type Tube Cutter 1, 2
	Pliers Adjustable self locking pliers Coolant pliers Copper-tube pliers Pliers for fixing refrigerant equipment
	Tube Tools Torque Wrench Saw & Blade Flaring Tool 1, 2, 3 Flaring/Cutting Tool Kits 1, 2, 3, 4 Reamers/Cleaning Tool 1, 2 Bending Tool 1, 2 Deburring Tool
	Pipe Tool Electric Cordless Flaring Tool 59543 Ratchet Eccentric Cone Type Flaring Tool 59544 45d Eccentric Cone Type Flaring Tools With A Ratchet Wrenches 59545 Cordless Expander Tool 59549 Deburring Tool

Tools	CO2 Monitor
	[CO2 Monitor 58886]()

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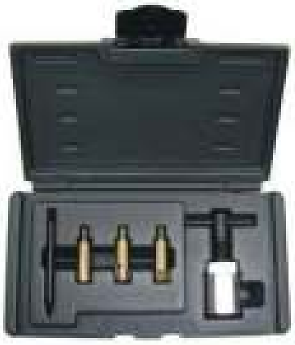
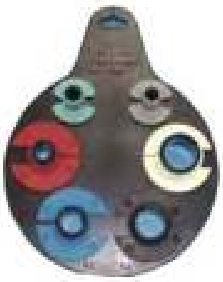
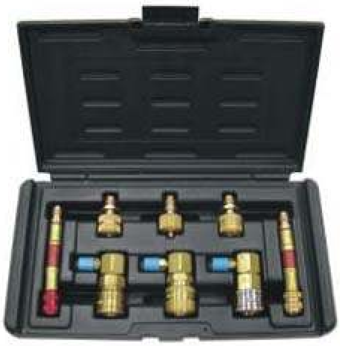
AUTO AIR CONDITIONING TOOLS



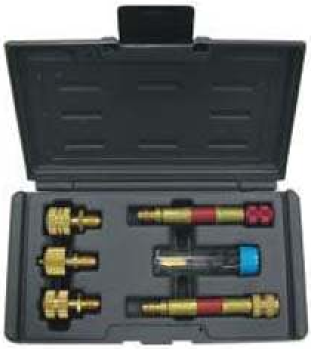
Orifice Tube
Service Kit
59003



59009	**R12 R134a Spring Lock Coupling Tools** These easy to use compact springlock coupling tools are ideal for Routine service on Ford, Jeep, Chrysler and imapot A/C system
58301	5/16” Gray
58302	3/8” Cyan
58303	1/2” Red
58304	5/8” Blue
58305	3/4” Black
58306	7/8” White



59005	**Universal A/C Adapter Set**
58101	1/4” x 1/4” Shut-off
58102	1/4” x 3/16” Shut-off
58201	GM 1991 & later Service Adapter
58016	1/4” x 3/16” GM Flex
58017	1/4” x 1/8” FORD Flex
58202	FORD Quick Disconnect
58203	GM & FORD Quick Disconnect
58204	GM Large Bore Quick Disconnect



59006	**Safety A/C Adapter Set**
58101	1/4” x 1/4” Shut-off
58102	1/4” x 3/16” Shut-off
58201	GM 1991 & later Service Adapter
58016	1/4” x 3/16” GM Flex
58017	1/4” x 1/8” FORD Flex

59007	**Popular A/C Adapter Set**
58101	1/4” x 1/4” Shut-off
58102	1/4” x 3/16” Shut-off
58201	GM 1991 & later Service Adapter
58103	1/4” x 1/8” 90^0 Shut-off (Ford high side)
58104	1/4” x 3/16” 90^0 Shut-off
58202	FORD Quick Disconnect
58204	GM Large Bore Quick Disconnect

59010	**6pc Disconnect Set** For Fuel and Air Conditioning Lines
58307	5/16” Yellow
58308	3/8” Blue
58309	1/2” White
58310	5/8” Green
58311	3/4” Black
58312	7/8” Red
58313	6pc Clamp

59011	**Fuel & Transmission Line Disconnect Set**
58314	Use on Ford EFI/CFI fuel lines with hair pin connectors and transmission oil cooler lines: 87 & newer olds. Toronado, Buick Riviera Reatta, Cadillac Eldorado, Seville and Concours, 89’ & newer GM 1/2 ton, 3/4 ton and 1 ton pick. Also fits many GM Power Steering lines.
58315	Ford use on 86 & newer Ford & Mercury Vehicles with AXOD, ADO, or ATX automatic transmissions
58316	Ford use on 90 & newer Ford Rangers & Explores with 4.0 lites & Cylinder engines
58317	Separates fittings on fuel lines fuel filters & fuel tank return liner sizes 1/4
58318	Separates fittings on fuel lines fuel filters & fuel tank return liner sizes 5/16
58319	Separates fittings on fuel lines fuel filters & fuel tank return liner sizes 3/8
58320	Separates automatic transmission oil cooler lines on Ford Taurus & Escort with Axod & TAX Transmission

59012	**General Motors A6, R4, late DAG, HR-6, V5, POLE R4 Seal Set** Includes the tools needed to replace seals on GM compressors from early sixties through the current model year as well as Tecumseh HR-980		
58401	Internal Snap Ring Pliers	58407	O-Ring Iinstallation Guide
58402	O-Ring Seal Sleeve Remover	58408	Seal Seat Installer
58403	Seal Seat Remover	58409	Seal Protector
58404	Seal Remover & Installer	58410	Ceramic Seal Installer
58405	Clutch Plate Remover(coarse thread)	58501	Universal Clutch Holding Tool
58406	Clutch Plate Installer(coarse thread)	58412	Clutch Plate Removal Arbor

59013	**Special GM DAG Seal Set** For carbon type seals used with tools of 59012
58413	Seal Remover & Installer
58414	Shut-off Protector
58415	Clutch Plate Remover (Metric Thread)
58416	Clutch Plate Installer (Metric Thread)
58456	O-Ring & Snap-Ring Installer
58418	O-Ring Installation Guide

59014	**Special Ford FS6, Chrysler C171, Nippondenso 6P 148A, Tecumseh HR-980 Seal Set** All specialized tools needed when replacing seals on the above compressor used with tools of 59012
58419	Clutch Plate Installer
58420	Seal Seat Remover
58421	Seal Seat Installer
58422	Clutch Plate Remover
58423	O-Ring Installation Guide

59015	**Special York/Tecumseh, Chrysler RV-2 (two cylinder) Seal Set** All specialized tools needed to replace seals on the above compressor used with tools of 58501 Clutch Holding Tool from 59012
58424	Oil Level Dip Stick
58425	5/8" Clutch Remover
58426	5/8" Clutch Remover
58427	Seal Remover
58428	Seal Installer & Plate Alignment Tool

59016	**Sanden 507 508 510 Seal Set**

All the specialized tools needed when replacing Seals on Sanden Model 507, 508 and 510 compressor. Used eith tools from 59012.

58502	Clutch End Plate Puller
58411	Seal Remover & Installer
58429	Seal Remover
58430	Clutch Face Installer

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59017 Sanden 505 575 Service Set

Includes all the necessary tools to service shaft seals On Sanden 505 and 575. Used with tools from 59012.

58431	York Seal Remover & Installer
58432	Sanden 505 Seal Seat Remover
58433	Sanden 505 Bearing & Pulley Installer
58434	Sanden 505 Seal Protector Sleeve
58435	Pulley & Clutch Remover Jaws
58436	Shaft Protector Plot

59018 Diesel Kiki Service Seal Set

Includes all the tools necessary to service Diesel Kiki DKV-14B, DKS-12B, DKS-15B, 13S, 15S and 17S compressors. Used with tools from 59012 and 59024

58437	Diesel Kiki Drive Plate Installer
58438	Diesel Kiki Plate Remover
58439	Diesel Kiki Installer
58440	Diesel Kiki Puller Plot
58441	Diesel Kiki Seal Remover/Installer
58442	Diesel Kiki Seal Seat Remover/Installer

59019 Hitachi & Mitsubishi Seal Set

Includes all the tools necessary to replace Seals on Hitachi MJS 123, 130, 157, 170, MJ 157, SWP 167 and Mitsubishi SA 430, SA439. Used with tools from 59012.

58330	Diesel Kiki Remover & Installer
58433	505 Bearing & Pulley Installer
58443	Mitsubishi Seal Seat Remover
58413	Mitsubishi Seal Remover & Installer
58444	Mitsubishi Seal Remover Lock
58503	Hitachi Spanner Plug Remover & Installer

59020 Nippondenso 10 PA17 Seal Set

Includes all tools necessary to replace seals on Nippondenso. Used with tools from 59012.

58445	Shaft Seal Remover
58446	Shaft Seal Installer
58447	Shaft Protector
58448	Internal Snap Ring Remover

59021 Chrysler 6 C17 Seal Set

Includes all tools necessary to replace seals on Chrysler compressors. Used with tools from 59012.

58449	Shaft Protector
58450	Seal Remover/Installer
58451	Hub Remover
58452	Hub Holder

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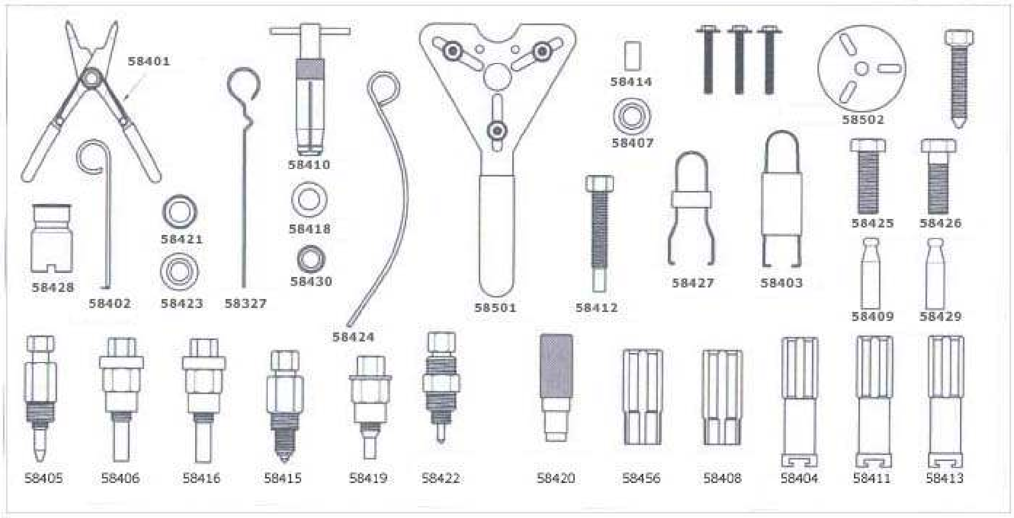
59022 FORD FX-15/FS-10 Service Seal Set

This set consists of special tools needed to replace the seals on the FX-15/FS-10 compressor

58453	Shaft Seal Remover
58455	Shaft Seal Installer
58454	Seal Protector (16 spline)
58448	Internal Snap Ring Remover

59023 Master Seal Service Tool Set

The set includes all the tools from 59012, 59013, 59014, 59015 and 59016 in a rugged metal tool box. Easy to understand instruction manual will show you step-by –step how to serve all the popular Compressors.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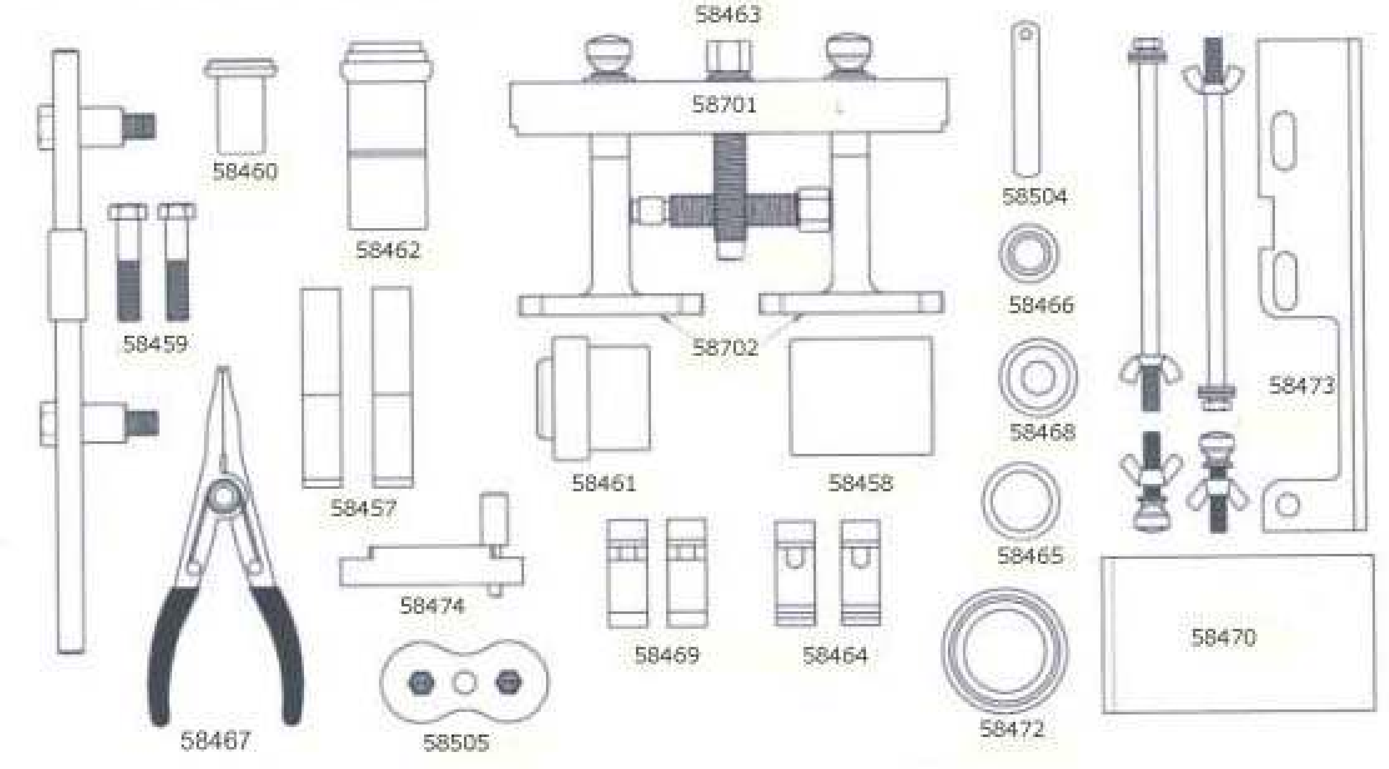
58401	Internal Snap Ring Pliers	58502	Clutch Plate Puller
58402	O-Ring Sleeve Remover	58411	Seal Remover & Installer
58403	Seal Seat Remover	58429	Seal Protector Sleeve
58404	Seal Remover & Installer	58430	Clutch Plate Installer
58424	York & Tecumsch oil Level Dipstick	58419	Clutch Plate Installer
58327	Chrysler Oil Level Dipstick	58420	Seal Seat Remover
58425	5/8” Clutch Remover	58421	Seal Seat Installer
58426	5/8” SAE Clutch Remover	58422	Clutch Plate Remover
58405	Clutch Plate Remover	58601	A/C Service Manual
58406	Clutch Plate Installer	58412	Clutch Plate Remover Arbor
58407	O-Ring Installation Guide	58423	O-Ring Installation Guide
58408	Seal Seat Installer	58413	Seal Remover & Installer
58427	Seal Remover	58414	Shaft-off Protector
58428	Seal Installer & Plate Alignment	58415	Clutch Plate Remover
58409	Seal Protector	58416	Clutch Plate Installer
58410	Ceramic Seal Seat Remover & Installer	58456	O-Ring & Snap-Ring Installer
58501	Universal Clutch Holding Tool	58418	O-Ring Installation Guide

HOME

59024 Master Clutch Service Tool Set

The Set Contains all the tools needed to service clutches on the following compressors: General Motors, A6, R4, and DA6; 6 Pole R4, V5 and HR-6; Ford FS6; Chrysler C171; Nippondenso 6p 148a; Sanden 507, 508 and 510 and Pitts and Warner clutches.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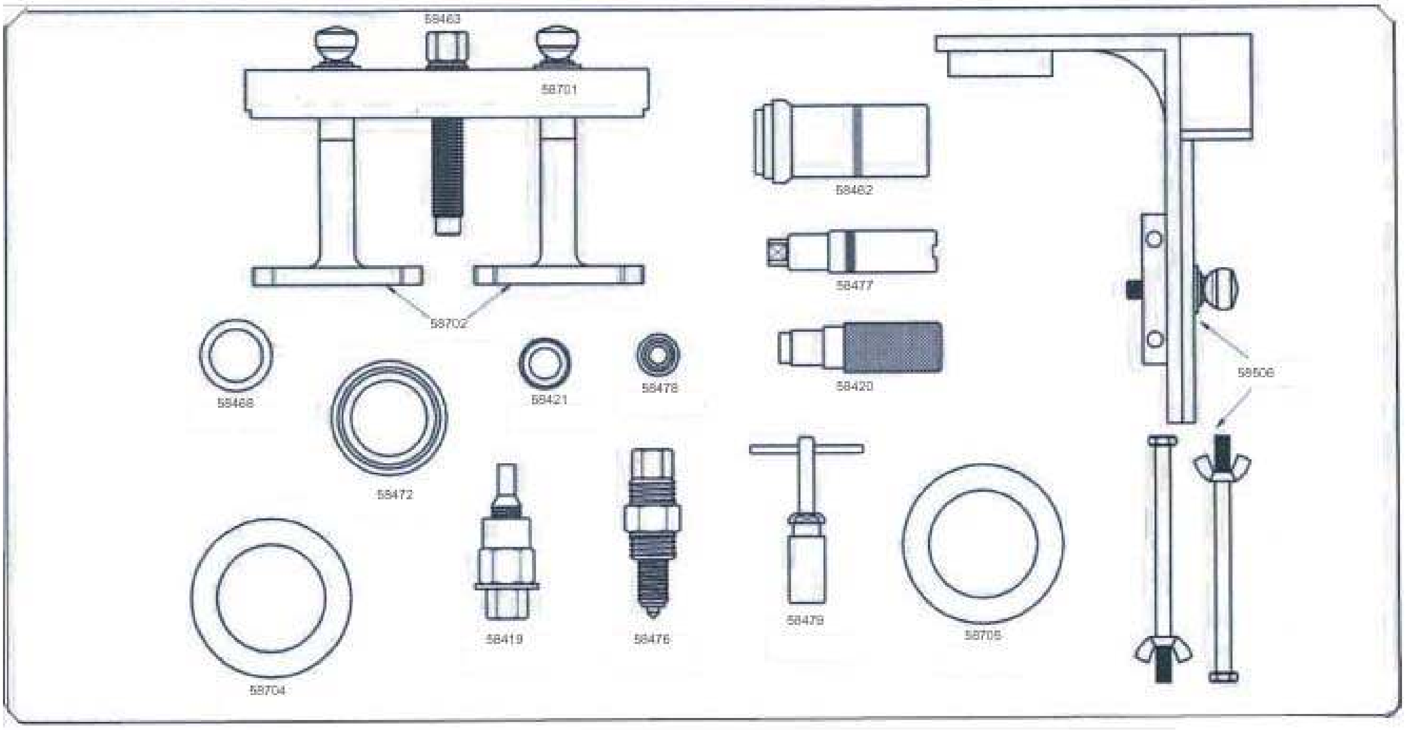
58457	Coil Puller Jaws	58468	Shaft Protector Pilot
58458	Coil Installer	58469	Rotor & Bearing Puller Jaws
58459	Compressor Holding Fixture & Hardware	58470	Rotor & Bearing Puller Arbor
58460	Rotor & Bearing Plate	58702	Pulley Remover Jaws
58461	Clutch Assembly Installer	58472	Bearing & Pulley Installer
58462	Pulley Bearing Remover & Driver	58504	Feeler Gauge Set
58463	Pulley Arbor	58601	A/C Service Manual
58464	Pulley Removal Jaws	58473	Compressor Holding Fixture Set
58465	Pulley Removal Pilot	58505	GM Compressor Test Plate
58466	Pulley Hub Removal Pilot	58703	Holding Fixture and Hardware
58701	Puller Body	58474	Clutch Bearing Staking Tool
58467	External Retaining Ring Pliers		

HOME

59025 Nippondenso Service Set

Contains all the specialized tools required to service Nippondenso type compressors appearing on many Ford, Chrysler and imported vehicles, includes a special holding fixture for cross bolt mount configuration. Complete with tool box and instructions.



58462	Pulley Bearing Remover & Driver
58463	Universal Pulley Puller Arbor
58701	Universal Pulley Body
58476	Clutch Plate Remover
58468	Shaft Protector Plot (small)
58419	Clutch Plate Installer
58702	Pulley Removal Jaws
58472	Bearing & Pulley Installer
58420	Seal Seat Remover
58421	Seal Seat Installer
58477	Shaft Key Remover
58478	Clutch Pulley Support
58704	Clutch Pulley Support
58705	Warner Clutch Pulley Support
58506	Compressor Holding Fixture
58479	Valve Plate Remover

For Complete Ford FS-6 Service
This set must be used with:
58467 External Snap-Ring Pilers
58501 Universal Clutch Holding Tool

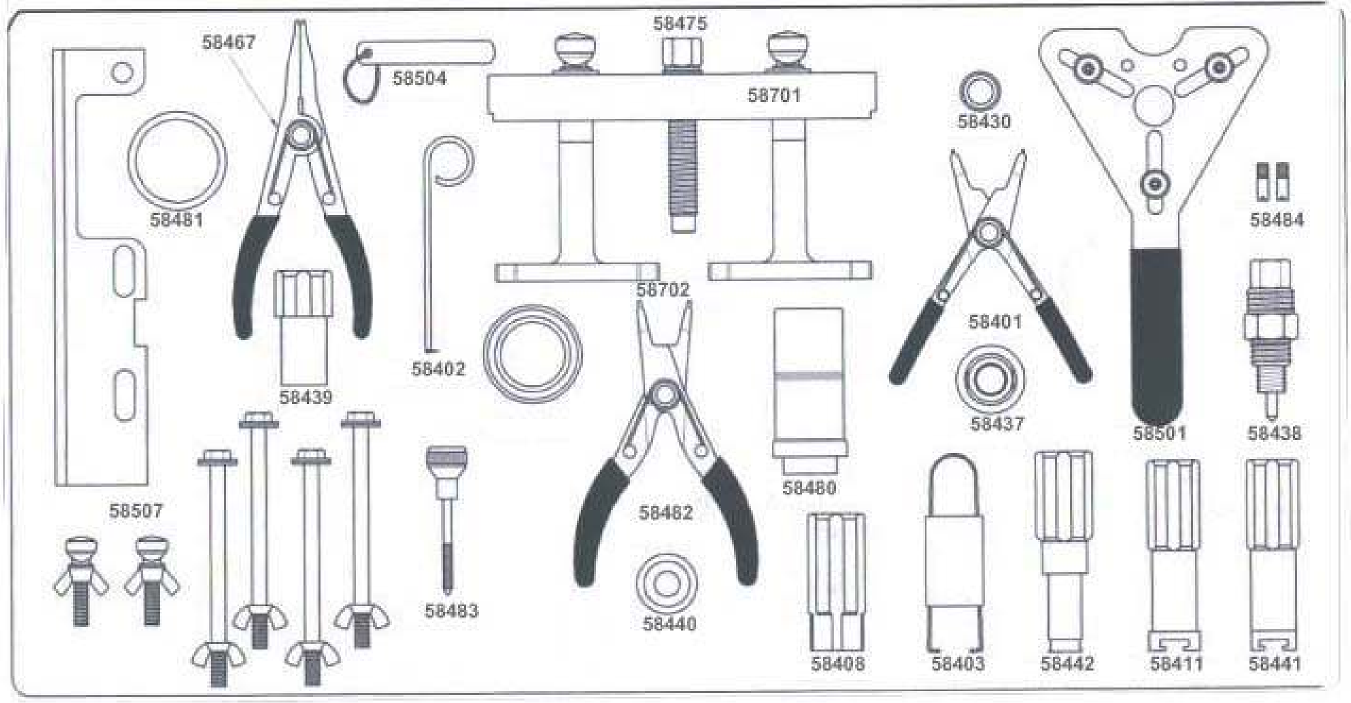
For Complete Ford 10 PA17
Service set 59025 must be used
with set 59020

All tools available individually

HOME

59026 Diesel KIKI (Zexel) Seal and Clutch Tool Set

Service standard Diesel Kiki and York compressor model DKS 12 and DK15. Complete with tool box and instruction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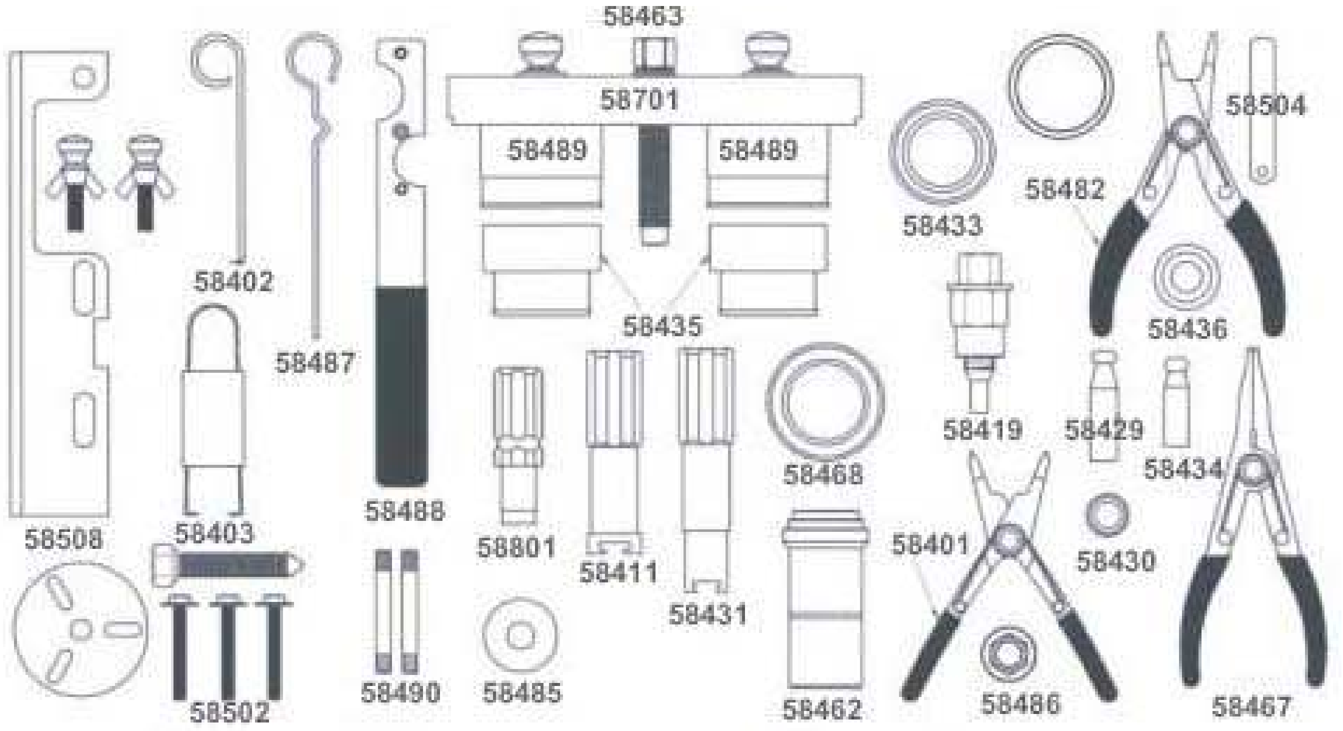
58401	Internal Snap-Ring Pliers	58482	Internal Snap-Ring Pliers
58507	Compressor Holding Fixture	58483	Valve Plate Remover
58480	Pulley Bearing Driver	58437	Lock Nut Remover & Installer
58481	6” Clutch Bearing Installer	58438	Clutch Plate Remover
58402	O-Ring Seal Sleeve Remover	58702	Pulley Removal Jaws
58403	Seal Seat Remover	58433	Bearing & Pulley Installer
58463	Pulley Puller Arbor	58484	Thrust Bolt Shim Gauge
58701	Universal Puller Body	58439	Snap-Ring, O-Ring, Felt Installer
58408	Seal Seat Installer	58440	Pulley Puller Pilot
58501	Universal Clutch Holding Tool	58441	Seal Remover & Installer
58467	External Snap-ring Pliers	58442	Seal Remover & Installer
58411	Seal Remover & Installer	58504	Universal Feeler Gauge Set
58430	Clutch Plate Installer		

HOME

59027 Master Sanden Compressor Tool Service Set

All specialized tools necessary to service seal, clutch and clutch bearing on Sanden 505, 508, 510 and 575. Complete with tool box and instructions.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Special Sanden 708 and 709 tools (not included)

58441	Seal Remover and Installer
58442	Seal Seat Remover and Installer
58509	Seal Clip Remover and Installer

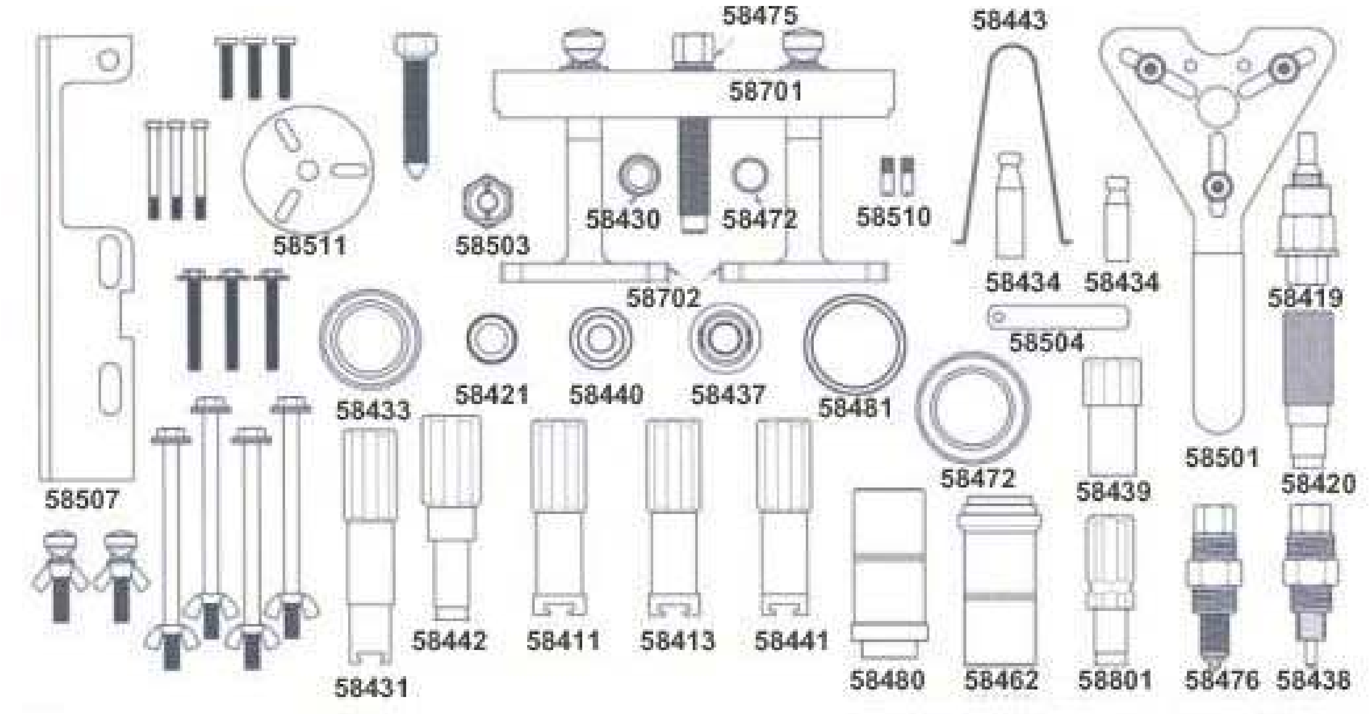
Contains:

58508	Holding Fixture & Hardware	58430	Clutch Plate Installer
58401	Internal Snap Ring Plier	58487	Oil Level Checker
58431	York Seal Remover/Installer	58489	Pulley & Clutch Remover Jaws
58402	O-Ring Seal Sleeve Remover	58490	Pilot Studs
58403	Seal Seat Remover	58482	Internal Retaining Ring Plier
58462	Pulley Bearing Remover/Driver	58485	Clutch Installing Pilot
58463	Pulley Arbor	58419	Clutch Plate Installer
58701	Puller Body	58472	Bearing & Pulley Installer
58488	Clutch Holder	58801	Sanden 505 Seal Seat Remover
58502	Clutch Plate Puller	58433	Sanden 505 Bearing & Pulley Installer
58467	External Retainer Remover/Installer	58434	Sanden 505 Seal Protector Sleeve
58486	Seal Retainer Remover/Installer	58435	Pulley & Clutch Remover Jaws
58411	Seal Remover & Installer	58436	Shaft Protector Pilot
58429	Seal Protector Sleeve	58504	Feeler Gauge Set

HOME

59028 Master Import Compressor Clutch Seal and Bearing Service Tool Set

Includes all the tools necessary to replace seals, clutches and clutch bearing on Diesel Kiki (Zexel), Hitachi, Mitsubishi, Nippondenso, Seiko-Seiki and Sanden 505, 508, 510, 575, 708 and 709. Set is packaged in Pre-cut foam pockets and inserted into a heavy metal tool box. Set includes instruction manual.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58431	York Seal Remover	58420	Seal Seat Remover
58507	Compressor Holding Fixture	58421	Seal Seat Installer
58480	Diesel Kiki Bearing Drive	58801	Sanden 505 Seal Seat Remover
58481	Diesel Kiki Clutch Installer	58433	Sanden 505 Bearing & Pulley Installer
58462	Pulley Bearing Remover & Installer	58434	Sanden 505 Seal Protector Sleeve
58475	Pulley Arbor	58443	Mitsubishi Seal Seat Remover
58701	Puller Body	58413	Mitsubishi Seal Remover & Installer
58501	Universal Clutch Holding Tool	58510	Diesel Kiki Clutch Puller Trust Pin
58411	Seal Remover & Installer	58439	Diese Kiki Retainer Ring Installer
58429	Seal Protector Sleeve	58511	Mitsubishi/Sanden Clutch Plate Remover
58430	Clutch Plate Installer	58440	Diesel Kiki Pulley Puller Pilot
58476	Nippondenso Clutch Plate Remover	58441	Diesel Kiki Seal Remover & Installer
58437	Diesel Kiki Nut Remover	58442	Diesel Kiki Seal Seat Remover & Installer
58438	Diesel Kiki Plate Remover	58504	Universal Feeler Gauge Set
58419	Sanden Plate Installer	58444	Mitsubishi Seal Remover Lock Sleeve
58702	Pulley Removal Jaws	58601	Air Conditioning Manual
58472	Bearing & Pulley Installer	58503	Hitachi Spanner Plug Remover & Installer

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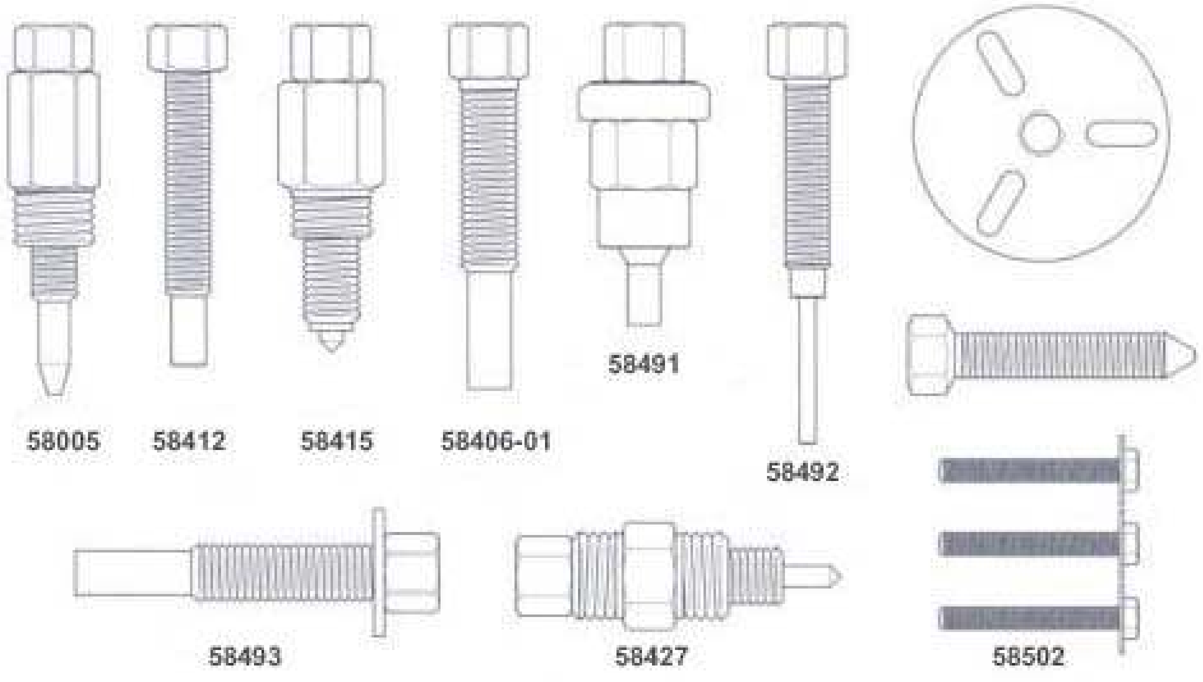
59029 Deluxe Clutch Hub Puller/Installer Kit

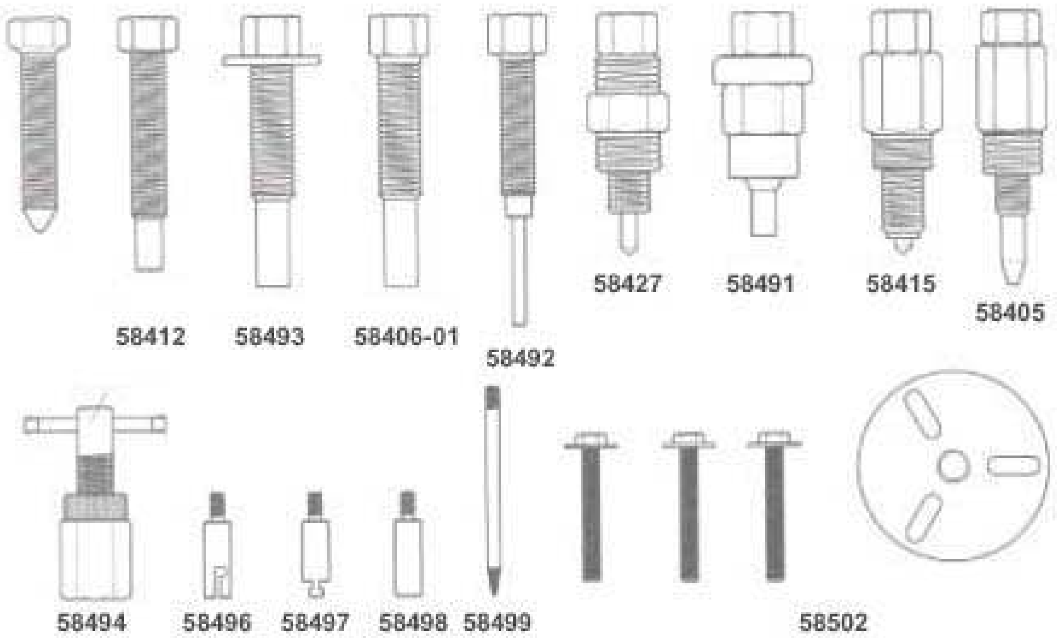
Kit contains a complete offering of A/C compressor clutch hub pullers and installers for GM, Ford, Chrysler and Imports. Includes a compressor identification chart and come in a custom molded case.



58415	Clutch Plate Installer
58405	Clutch Plate Remover
58412	Clutch Plate Remover Arbor
58491	Clutch Plate Installer
58427	Clutch Plate Remover
58492	Clutch Plate Remover Arbor
58406-01	Clutch Plate Installer Arbor
58493	Clutch Plate Remover Arbor
58502	Clutch Plate Puller

59030 Deluxe Clutch Hub Puller/Installer & Orifice Tub Service Kit

Kit contains a complete offering of A/C compressor clutch hub Pullers and Installers Orifice tube remover/installer For GM, Ford, Chrysler and imports. Includes a compressor identification chart and come in a custom molded case.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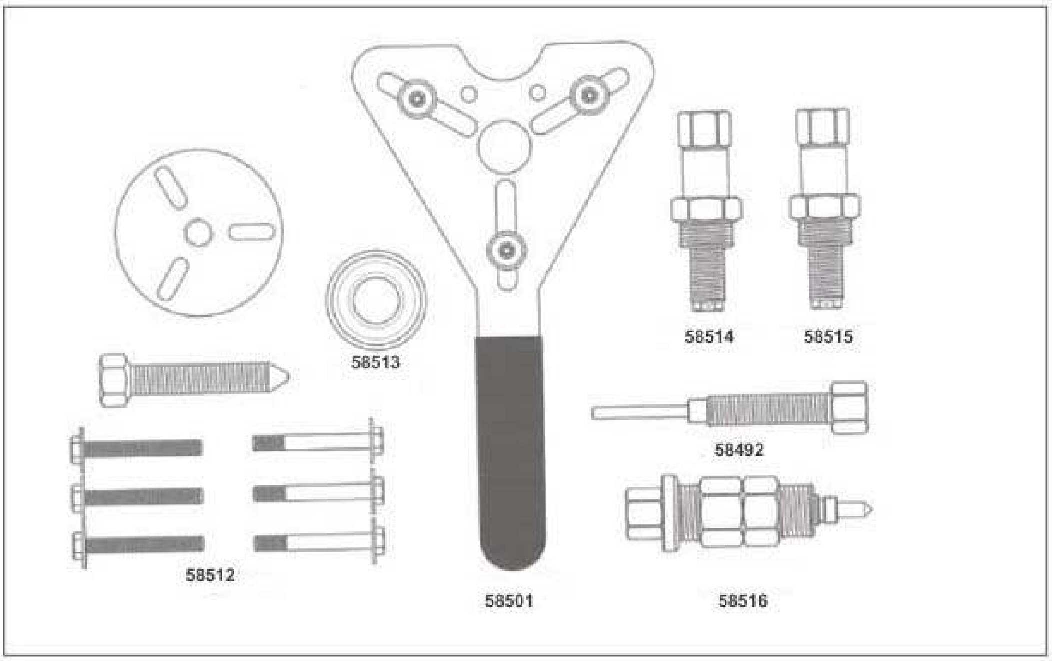
58415	Clutch Plate Installer	58502	Clutch Plate Puller
58405	Clutch Plate Remover	58494	Nut
58412	Clutch Plate Remover Arbor	58495	Arbor
58491	Clutch Plate Installer	58496	Puller
58427	Clutch Plate Remover	58497	GM Puller
58492	Clutch Plate Remover Arbor	58498	Externaler
58406-01	Clutch Plate Installer Arbor	58499	Auger Paint Shaft
58493	Clutch Plate Remover Arbor		

59031 Clutch Hub Tool Kit

Air Conditioning Compressor/Clutch Service Manual



58501	Universal Clutch Holding Tool
58512	Sanden SD 5 & 7 Clutch and Plate Remover
58513	Bearing
58514	Metric Clutch Plate Remover/Installer
58515	Fractional Clutch Plate Remover/Installer Chrysler C171/Ford S 61 Hitachi-MI/Tecumsah Hr-9801
58516	Nippondenso GP/109 Remover/Installer
58492	Clutch Plate Remover Arbor

58514 Metric Clutch Plate Remover and Installer

58515 Fractional Clutch Plater Remover and Installer

59032 GM Clutch Plate Remover and Installer

Tools remove and install clutches on GM air conditioning compressors. Remove clutch plate without removing retaining ring and install clutch plate with compressor on car. Use it on all A-6 and pre-1980 R-4 compressors. Tool will not work on metric threads.

58405	Clutch Plate Installer
58406	Clutch Plate Installer

HOME

59038 Universal Clutch Pulley Puller

58460	Rotor and Bearing Plate
58701	Universal Puller Body
58328	Universal Puller Arbor
58702	Universal Remover Jaws

59039 Universal Pulley Puller Set

58475	Puller Arbor
58464	Pulley Removal Jaws
58329	Set of Thumb Screws and Washers
58465	GM Pulley Removal Pilot
58466	Pulley Hub Removal Pilot
58701	Puller Body

59542 A/C Compressor Clutch Remover Kit

59202 Clutch Hub Puller Installer Kit

59204 Car air-condition Repairing pepeline tool box

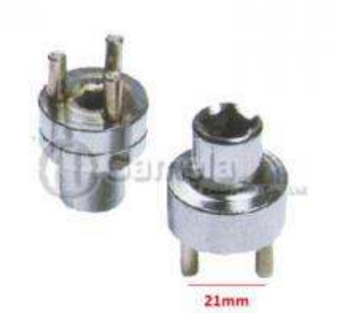
59201 Clutch Hub Puller Installer Kit

59203 Clutch Hub Puller Installer Kit

59546 Hose Crimper

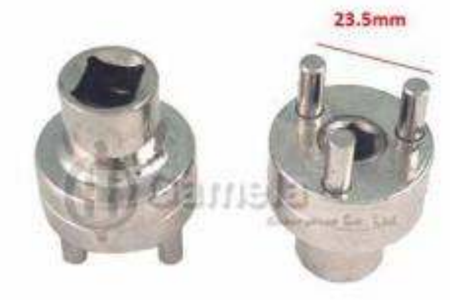
Clutch Remover

72749T



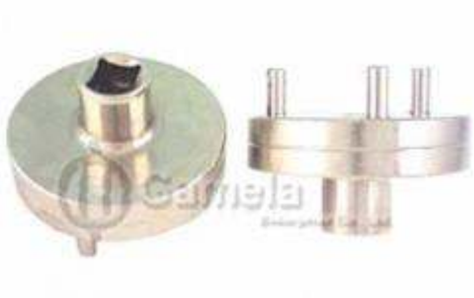
Clutch Remover-Small
Compressor Tool, Clutch Rmover, small, leg distance 21mm, remove 71800 (Hub)

72749T-M



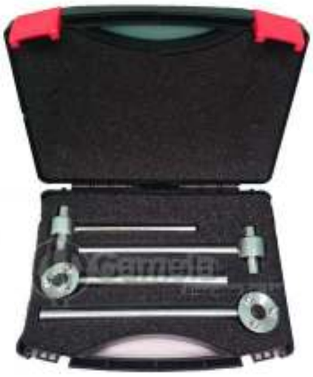
Clutch Remover-Medium
Compressor Tool, Clutch Rmover, medium, leg distance 23.50mm

72749T-B



Clutch Remover-Big
Compressor Tool, Clutch Rmover, Big, leg distance 48mm

72749TK



Clutch Remover Kit
Medium (23.5mm), Small (21mm)

59095

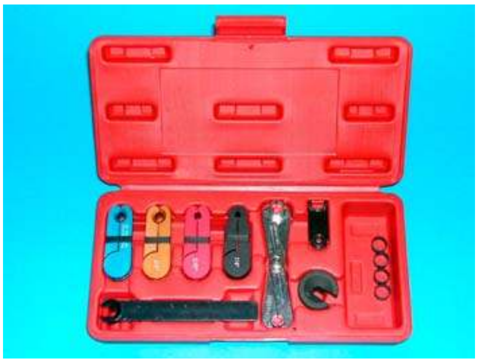
Disconnect Tools

1. Anodized aluminum
2. Separates fittings on fuel lines, fuel fitters & fuel tank return lines-sizes 1/4", 5/16", 3/8"

Oil Cooler Line Disconnect Tool

1. Anodized aluminum
2. Separates automatic transmission oil cooler lines on Ford Taurus and Escort with AXOD and ATX transmission -Size: 1/2"

59096

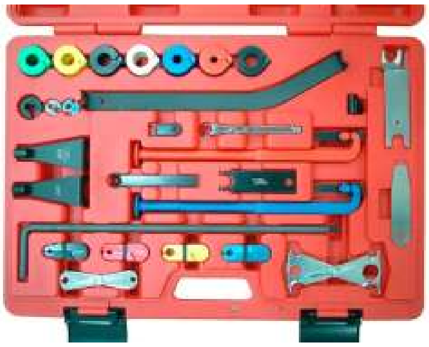


Fuel & Transmission Line Disconnect Set

Instructions for Disconnect Tools:

1. Choose the appropriate disconnect tool for the disired job. Make sure that you have chosen the tool for the correct pressure line diameter.
2. Position the tool as per the illustration.
3. Apply slight pressure toward the connector fitting pressing strong enough to depress the "connector fingers" that maintain the connection.
4. Remove the pressure line
5. To replace: place the pressure line fitting onto the desired fitting destination and apply pressure. A click sound signifies the re-connection of the pressure line.

59093



Full Coverage Disconnect Coupling Set

All the tools required for disconnecting heater hoses, transmission oil cooler pipes, air conditioning pipes and fuel lines used on todays later model vehicles.

58210

Fuel Line Disconnect Tool, Yellow (3/8")

1987 & newer Ford vehicles with spring lock connectors.

58211

Fuel Line Disconnect Tool, Green (1/2")
1987 & newer Ford vehicles with spring lock connectors.

59047

THREAD CHASERS Size: S.A.E
New design for both internal and external front wheel drive spindle thread repair. Use with a deep socket or the tommy bar supplied.
Individual Sizes:
* 5/8" UNF Thread Chaser
* 3/4" UNF Thread Chaser
* 7/8" UNF Thread Chaser
* 1" UNF Thread Chaser
* 1-1/16" UNF Thread Chaser
* Tommy Bar

59048

THREAD CHASERS Size: m/m
New design for both internal and external front wheel drive spindle thread repair. Use with a deep socket or the tommy bar supplied.
Individual Sizes:
* M14 x 1.5 Thread Chaser
* M16 x 1.5 Thread Chaser
* M18 x 1.5 Thread Chaser
* M20 x 1.5 Thread Chaser
* M22 x 1.5 Thread Chaser
* M24 x 1.5 Thread Chaser
* M27 x 2.0 Thread Chaser
* M28 x 1.5 Thread Chaser
* Tommy Bar

58001

Universal Adjustable Spanner Wrench
Adjustable three-stud design for GM R-4 compressors. A has application on some GM. Warner pitts and Oqura clutches.

HOME

58802

Oil Cooler Line Remover

Application: Used to disconnect transmission oil cooler lines on the following vehicles: 2003 and 2004 Ford Explorer (V8), 2004 Ford F150, 2003 and 2004 Cadillac CTS.

58110

Condenser Fin Comb

Condenser Fin Comb

Cleans and straightens condenser and evaporator fins.

* Six side head fir 8, 9, 10, 12, 14, and 15 fins per inch applications.

* Six side head fir 10.5, 11, 13, 18, 20, and 22 fins per inch applications.

58004

Fin Straightener

8-9-10-12-14-15

51011

Ratchet Wrench-Stander Type

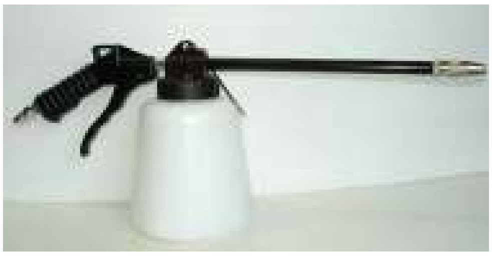
Cover 4 Size 9/16", 1/2" Hex, 1/4" & 3/16" Square Ratchet.

51012

Ratchet Wrench-Stander Type

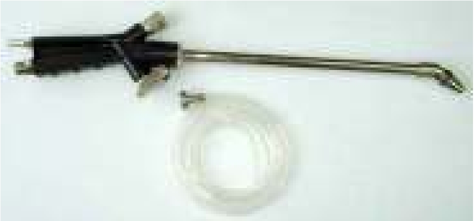
Cover 4 Size 1/4", 3/8", 3/16" & 5/16" Square Ratchet.

59102



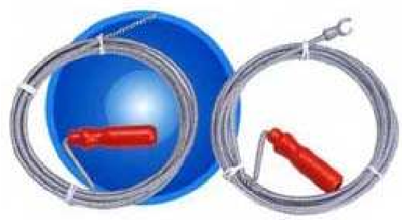
Air & Water Cleaner for Condenser, Radiator Use

59103



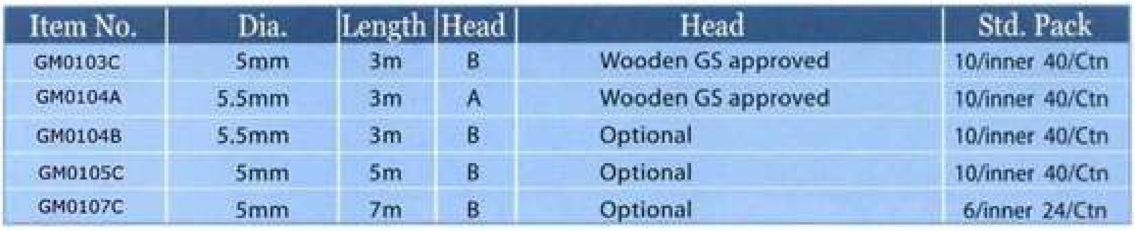
Air & Water Cleaner for Condenser, Radiator Use

GM103C-GM107C



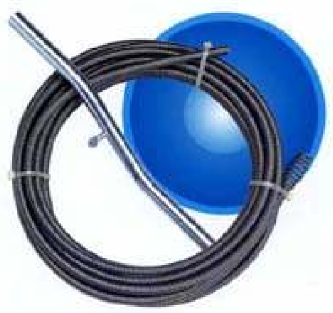
DRAIN CLEANERS

Made from galvanized high carbon wire wirh wooden or plastic crank handle.Available for alloy head(A) or spiral(B). Available for red or black plastic handle.

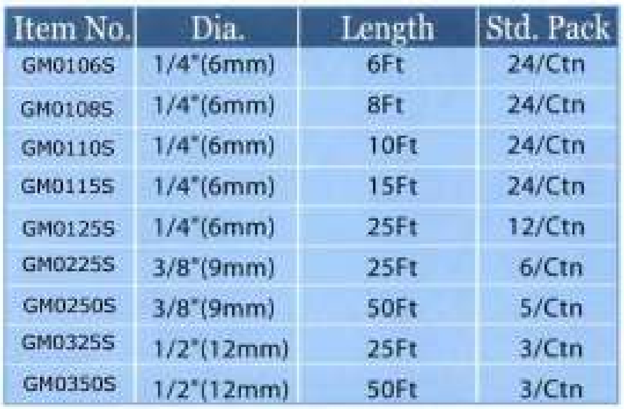


Item No.	Dia.	Length	Head	Head	Std. Pack
GM0103C	5mm	3m	B	Wooden GS approved	10/inner 40/Ctn
GM0104A	5.5mm	3m	A	Wooden GS approved	10/inner 40/Ctn
GM0104B	5.5mm	3m	B	Optional	10/inner 40/Ctn
GM0105C	5mm	5m	B	Optional	10/inner 40/Ctn
GM0107C	5mm	7m	B	Optional	6/inner 24/Ctn

GM0106S-GM0350S



DRAIN AUGERS

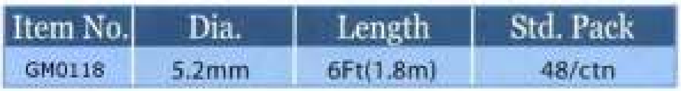


Item No.	Dia.	Length	Std. Pack
GM0106S	1/4"(6mm)	6Ft	24/Ctn
GM0108S	1/4"(6mm)	8Ft	24/Ctn
GM0110S	1/4"(6mm)	10Ft	24/Ctn
GM0115S	1/4"(6mm)	15Ft	24/Ctn
GM0125S	1/4"(6mm)	25Ft	12/Ctn
GM0225S	3/8"(9mm)	25Ft	6/Ctn
GM0250S	3/8"(9mm)	50Ft	5/Ctn
GM0325S	1/2"(12mm)	25Ft	3/Ctn
GM0350S	1/2"(12mm)	50Ft	3/Ctn

GM0118

SINK CLEANER

Made from galvanized high carbon steel wire. Spring bulb handle for easy operation. For kitchen sink and drains. Packed on a sliding card.

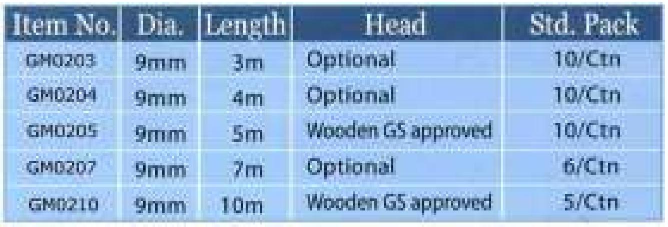


Item No.	Dia.	Length	Std. Pack
GM0118	5.2mm	6Ft(1.8m)	48/ctn

GM0203-GM0210

DRAIN CLEANERS

Made from galvanized high carbon wire. Wirh wooden or plastic crank handle. Available for red or black plastic handle.Acailadle for PE shrinkwrap.

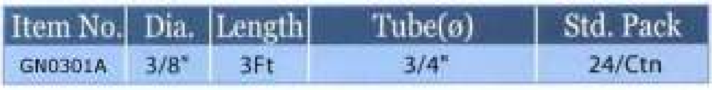


Item No.	Dia.	Length	Head	Std. Pack
GM0203	9mm	3m	Optional	10/Ctn
GM0204	9mm	4m	Optional	10/Ctn
GM0205	9mm	5m	Wooden GS approved	10/Ctn
GM0207	9mm	7m	Optional	6/Ctn
GM0210	9mm	10m	Wooden GS approved	5/Ctn

GM0301A

TOILET AUGER

A standard model for toilet auger. Equipped with smooth plastic and rbberbowel guard. A ring for attaching spring when not in use. Turning rod and tube are Zinc-plated. Available with a card.



Item No.	Dia.	Length	Tube(ø)	Std. Pack
GN0301A	3/8"	3Ft	3/4"	24/Ctn

GM0301B, GM0301BP, GM0301

TOILET AUGER

Light duty tool for toilet cleaning. Smooth handle with vinyl grip on tube makes cleaning easily. Wire could be galvanized. Head is buld-shaped. Available with a card or a pouch.

HOME

GM1402

Drain Sweep

The Drain Sweep is the safest and easiest way to unclog any sink or pipe without using harmful chemicals. Its easy-to-use trigger, patented Flex-Clean System and flexible 4 foot tubing make unclogg any drain or pipe, a sweep!

Item No.	Dia.	Length	Std. Pack
GM1402	6mm	4Ft	Blister pack 6/display box

GM3025, GM3050

FLAT DRAIN CLEANER

Handy economy model. Flat wire made from spring steel wire with heat treatment. Spring head go through curves.

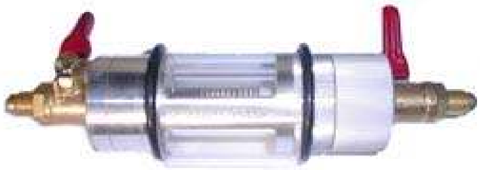
Item No.	Size	Length	Std. Pack
GM3025	1/4"x 0.028"	25 Ft (7.5m)	24/Ctn
GM3050	1/4"x 0.028"	50 Ft (15m)	24/Ctn

58524

Shaft Seal Protectors Kit, including Blue, White, Orange, Yellow, Green, Purple each 5pcs

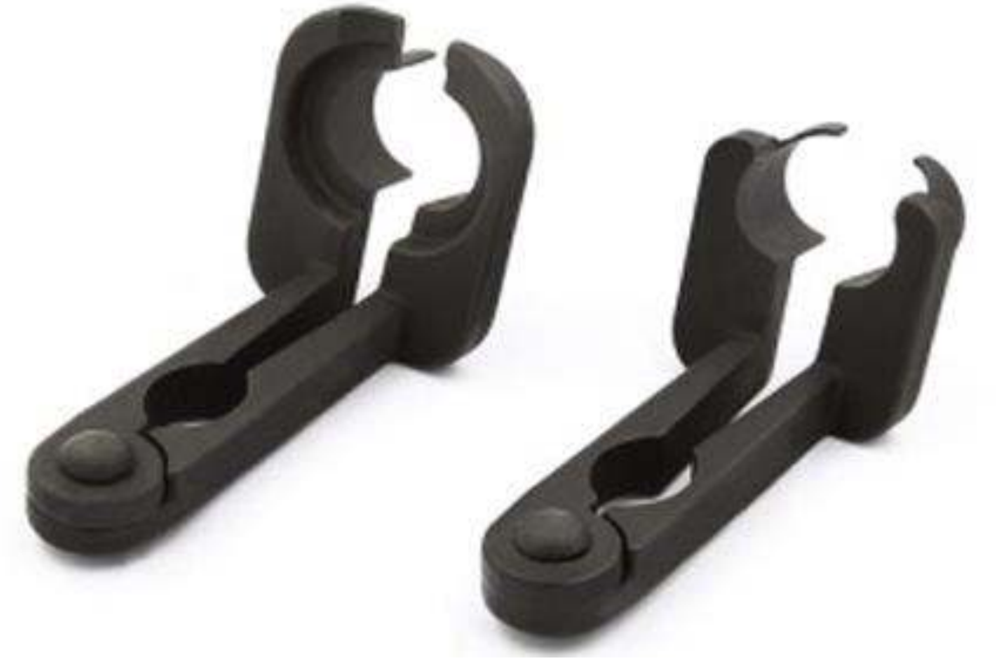
58524B	Blue
58524W	White
58524O	Orange
58524Y	Yellow
58524G	Green
58524P	Purple

58949



Refrigerant Checking Tube with filter
42x220mm N.W.420g
Specification: Pmax.25bar Tmax. 50℃
Product information
*protects from harmful substances and contamination in the refrigeration cycle due to flush.
*Improves the cooling performance and provides protection for all components of A/C system, especially compressors.
*Does not require dismantling of the system.
*Anti vibration o-ring and protect tube double safety.

59070



A/C Couplings Release Tool set (VAG group)

1) Releasing the quick-release connectors on the a/c lines.

2) Suitable for VAG group (VW, Audi, Skoda, Seat) :

Audi - A3 2004> ; A4 2001> ; 2008> ; A5 2008> ; Q52008> ;

TT 2007>Seat - Ibiza / Cordoba 93 ; Ibiza / Cordoba 99 ;

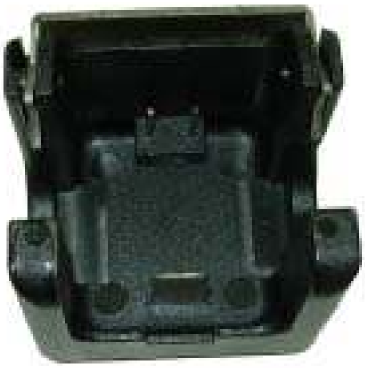
Ibiza 02 /Cordoba 03 ; Ibiza 2008 ; Leon 2006 ; Leon 2009 ;

Toledo / Leon 99Toledo 2005 ; Alhambra ; Alhambra 2011 ;

Altea 2005 ;Altea 2009 ; AlteaXL 2007 ; AlteaXL 2009 ;

AlteaFreetrack 2007AlteaFreetrack 2009 ; Exeo 2009 ; Arosa ; Inca

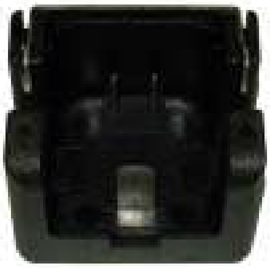
Spring Lock Tool for Toyota



Spring Lock Tool High Side

For disconnecting Spring-Lock connections
in Toyota cars, High Side

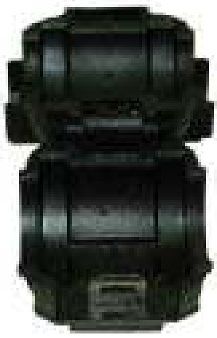
58197



Spring Lock Tool Low Side

For disconnecting Spring-Lock connections
in Toyota cars, Low side

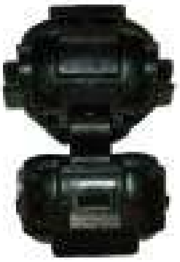
58198



Spring Lock Tool High Side

For install Spring-Lock connections
in Toyota cars, High side

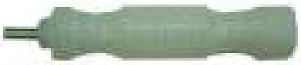
58199



Spring Lock Tool Low Side

For install Spring-Lock connections
in Toyota cars, Low side

58200



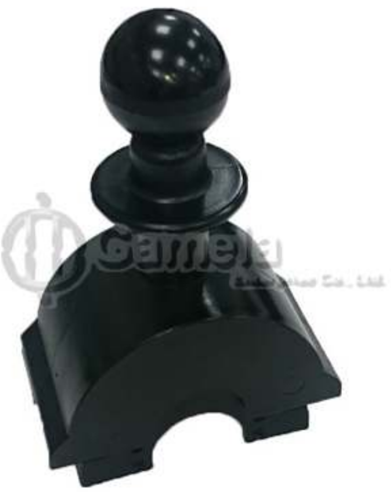
Spring Lock Coupler Tool

Disconnect Tool for Toyota

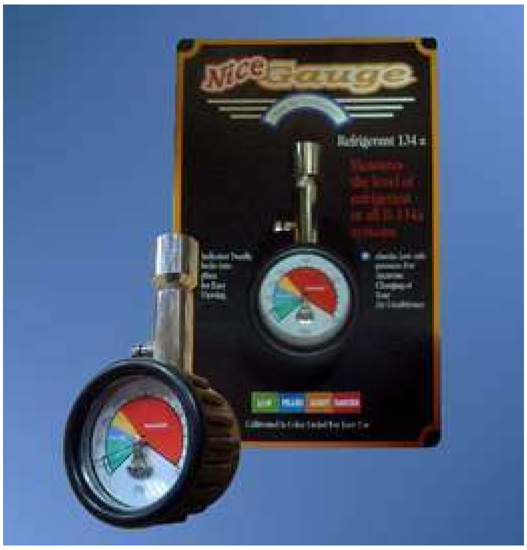
59125

Mercedes-Benz A/C Low Side Coupler Remover --- For Mercedes Benz W221 / W211 / W204 / W219

59563

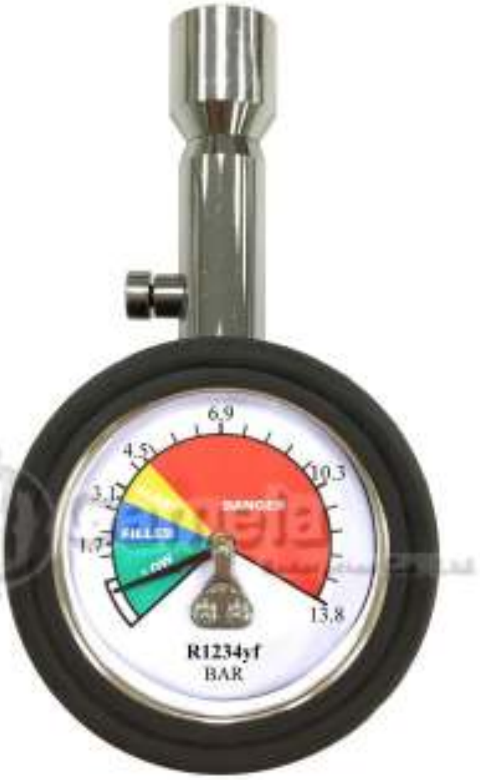


CHECK GAUGE



Item No. :	58995
Product Name :	Refrigerant 134a Gauge
Specifications :	*Dial Diameter:2 inch *Pressure Range:0~200psi *Housing:Black-Painted Steel *Ring:Chrome-Painted Steel *Lens:Acrylic *Stem with Release Button *Rubber Protector
Packing Detail :	Q'TY: 60 PCS N.W: 17.10 KGS G.W: 19.50 KGS CUFT: 4.39 Slide card

58945

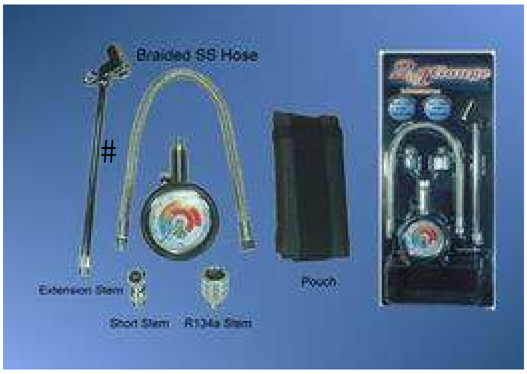

6.9
4.5
3.1
1.7
10.3
13.8
DANGER
FILLED
LOW
R1234yf
BAR

R1234yf check gauge, 0~13.8 bar or 0~200psi

Packing Detail:

Q'TY: 60 PCS
N.W: 17.10 KGS
G.W: 19.50 KGS
CUFT: 4.39
Slide card

CHECK GAUGE



Item No. :	58996
Product Name :	2 in 1 Gauge
Specifications :	*Dial Diameter:2 inch *Pressure Range: 0~160psi (for Tire Pressure)0~200psi(for R134a) *Housing:Black-Painted Steel *Ring:Chrome-Painted Steel *Lens:Acrylic *Stem with Release Button *Rubber Protector *45 degree stem for measuring tire pressure *R 134a stem for measuring R 134 a *Braided SS Hose for hard to reach *Extension Stem for hard to reach *Pouch for storing all the 5 components
Packing Detail :	Q'TY: 24 PCS N.W: 13.5 KGS G.W: 18.5 KGS CUFT: 1.65 Blister Card

CHECK GAUGE

58994
Measures The Level Of R-134a,R-12 Or R-12 Refrigerant In Or Air Conditioners. Calibrated And Color Coded For Easy Use. Includes Detailed Instructions For Testing Pressure And Adding Accurate Amount Of Refrigerant

58999
Check Gauge, R134a, plastic housing, 45 d

CORK TAPE 50450

TECHNICAL SPECIFICATION

CORK INSULATION TAPE

Cork Insulation Tape is suitable for use in the thermal insulation of cold pipes to prevent condensation of moisture. The compound if flexible, black in colour.

PRODUCT SPECIFICATION

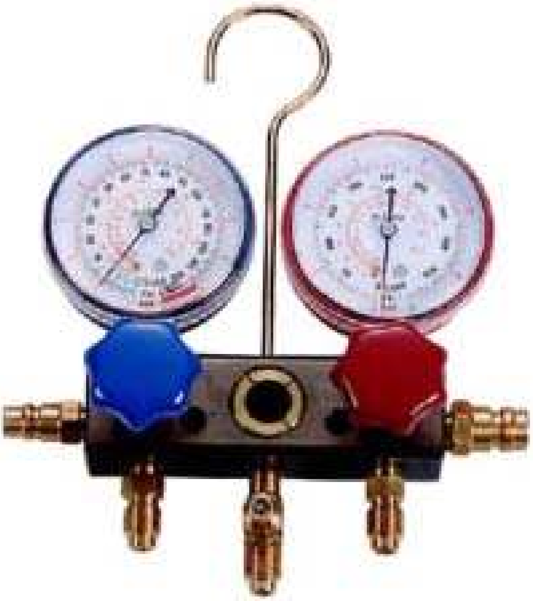
Appearance:	Black
Principal Composition:	Butyl rubber and Bitumen
Specific Gravity:	1.1 ± 0.1

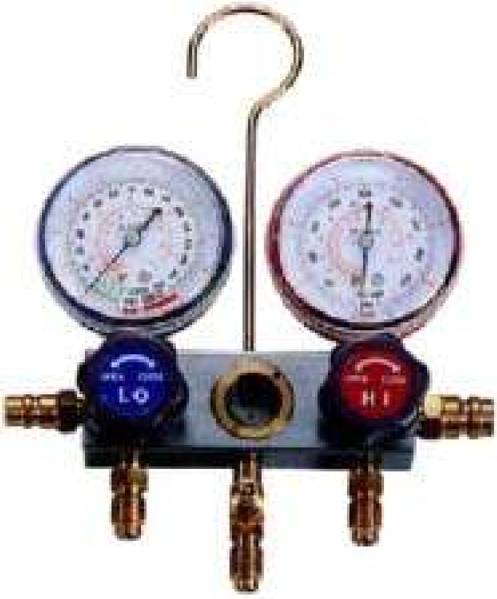
PROPERTIES:

Adhesion:	Good adhesion onto metal surface
Heat resistance:	Good
Elongation:	100%
Resistance:	Excellent resistance to water, water vapor, oxidation and weathering.
Odor:	None or very slight
Services Temperature:	- 2

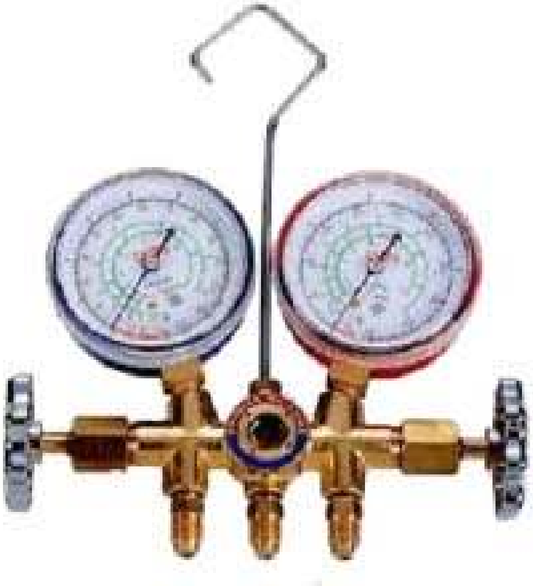
Insulation Tape 50451

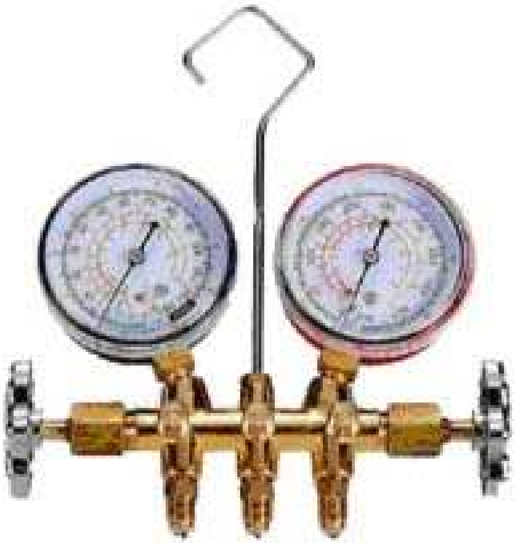
50451 1/8" x 2" x 30' NBR
50451PE 1/8" x 2" x 20M PE





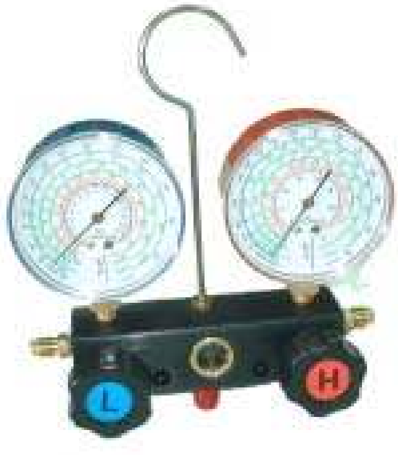
50106	50107
2 WAY Aluminum Sight Glass Manifold Gauge Set With 63mm(2 1/2”)Anti-Flutter Gauge, Piston Type Valve 1/2”ACME Fitting & Quick Coupler Holder & T Adapter W/core	**2 WAY Aluminum Sight Glass Manifold Gauge Set With 63mm(2 1/2”)Anti-Flutter Gauge, Diaphragm Type Valve 1/2”ACME Fitting & Quick Coupler Holder & T Adapter W/core**

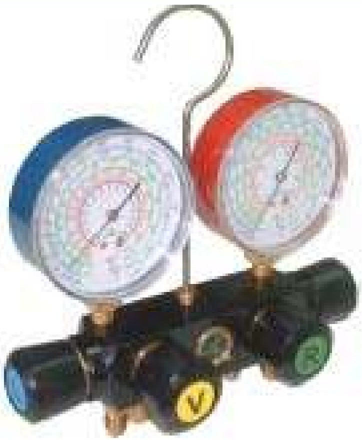




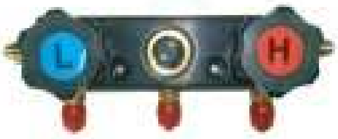
50108	50109
2 WAY Brass Sight Glass Manifold Gauge Set With 63mm (2 1/2”)Anti-Flutter Gauge 1/4”SAE Fitting	**2 WAY Brass Manifold Gauge Set With 63mm (2 1/2”)Anti-Flutter Gauge 1/4”SAE Fitting**

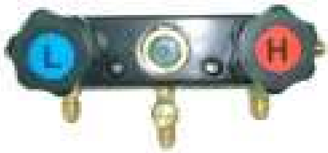
HOME

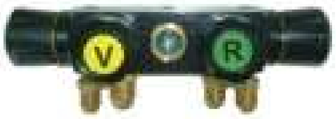




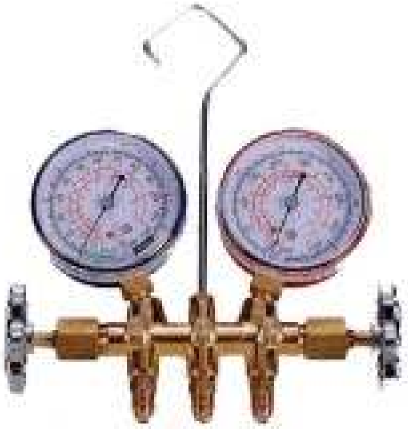
50120	50122
2 WAY Aluminum Sight Glass Manifold Gauge Set With 80mm(3 1/8")Anti-Flutter Gauge, Diaphragm Type Valve, 1/4" SAE Fitting	4 WAY Aluminum Sight Glass Manifold Gauge Set With 80mm(3 1/8")Anti-Flutter Gauge, Piston Type Valve, 1/4" SAE Fitting

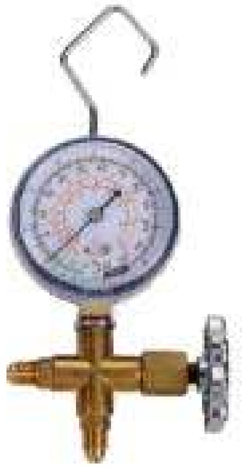






50123	50124	50125
2 WAY Aluminum Sight Glass Manifold Block Only With 1/4"SAE Fitting, Diaphragm Type Valve	2 WAY Aluminum Sight Glass Manifold Block Only With 1/4"SAE Fitting and T Adapter W/core, Diaphragm Type Valve	4 WAY Aluminum Sight Glass Manifold Block Only With 1/4"SAE Fitting and 5/16" Vacuum Fitting, Piston Type Valve





50116	50110
2 WAY Brass Manifold Gauge Set With 63mm (2 1/2") Gauge, 1/2"ACME Fitting & Quick Coupler Holder	1 WAY Brass Manifold Gauge Set With 63mm (2 1/2") Gauge or 80mm(3 1/8") Gauge, 1/4"SAE Fitting

50111	50113
Refrigerant Pressure Gauge - 63mm(2 1/2”), Metal Housing, Anti-Flutter, 50111-H-------High Side 50111-L ------Low Side *The Pressure Unit & Temperature Unit & Refrigerant Can Be What You Need	**Refrigerant Pressure Gauge - 80mm(3 1/8”), Metal Housing, Anti-Flutter, 50113-H------ High Side 50113-L ------ Low Side *The Pressure Unit & Temperature Unit & Refrigerant Can Be What You Need**

R12 Charging Hose
Working Pressure : 500psi
Burst Pressure : 2500psi
Hose Connection: 1/4”SAE Female
On Both Ends For RYB Hose

Length / Color	36” 90cm	60” 150cm	72’ 180cm	96” 240cm
Red	58336R	58337R	58338R	58339R
Yellow	58336Y	58337Y	58338Y	58339Y
Blue	58336B	58337B	58338B	58339B
RYB3pcs/set	58336	58337	58338	58339

R134a Charging Hose
Working Pressure : 600psi
Burst Pressure : 3000psi
Hose Connection:
Yellow-1/2”ACME Female x 1/2”ACME Female
Red-1/2”ACME Female x 14mm-1.5Male
Blue-1/2”ACME Female x 14mm-1.5Male

Length / Color	36” 90cm	60” 150cm	72’ 180cm	96” 240cm
Red	58366R	58367R	58368R	58369R
Yellow	58366Y	58367Y	58368Y	58369Y
Blue	58366B	58367B	58368B	58369B
RYB3pcs/set	58366	58367	58368	58369

***The Connection Fitting Can Be What You Need.**

R410A Charging Hose
Working Pressure : 800psi
Burst Pressure : 4000psi
Hose Connection : 1/4" SAE Female x 5/16" SAE Female For RYB

Length Color	36" 90cm	60" 150cm	72' 180cm	96" 240cm
Red	**58376R**	**58377R**	**58378R**	**58379R**
Yellow	**58376Y**	**58377Y**	**58378Y**	**58379Y**
Blue	**58376B**	**58377B**	**58378B**	**58379B**
RYB3pcs/set	**58376**	**58377**	**58378**	**58379**

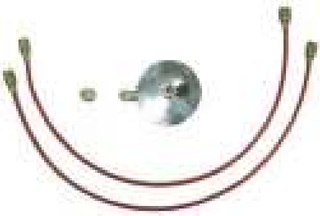
***The Connection Fitting Can Be What You Need.**

50128
Vacuum Gauge
80mm W/indicator, Metal Housing

50101	**90^0 Manual Shut-off Valve**
58012	Blue Hose 1/4” x 1/4”
58013	Yellow Hose 1/4” x 1/4”
58014	Red Hose 1/4” x 1/4”

Shut off Valve
58007 – A, B, C

Charging Unit
58008



Cylinder Charging Stand Set (including 1 stand #58712 and 2 charging hose #58713)+Adapter 1/4”M X 5/16”Swivel F
59539

Auto Air-Conditioner
R134a Recharge Kit
59041 5804

3 in 1 Side Can Tap
58021 Nylon

Can Dispenser & Quick Coupler

0

R134a Can Tap Piercing & Dispensing Valve
58332

Auto-Can Tap-Valve
58333
5833

Steel Body Clamp Can Tap Valve
4

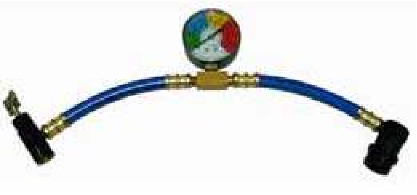
Can Tap
58020

Thread Chaser
58022

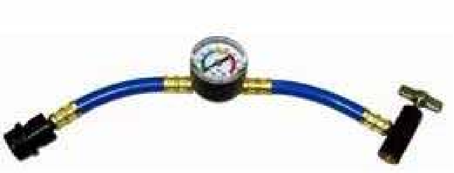
Hose for Audi
1/2’’ACME female x 1/4 SAE male
5 9536

Charging Unit
plastic, angle
58121

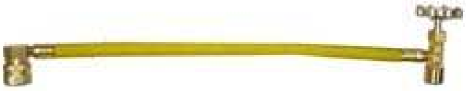
Charging Unit
plastic, straight W/Gauge
58122



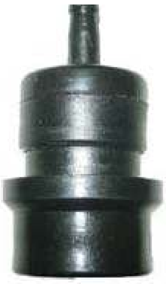
Charging unit, plastic, 90 d W/Gauge
58135



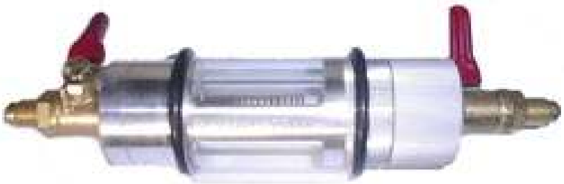
Charging unit, plastic, straigt W/Gauge
58136



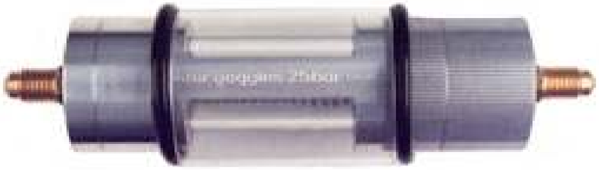
Shut off Valve
Charging Unit
58130



Plastic quick coupler
for Charging Unit
58126

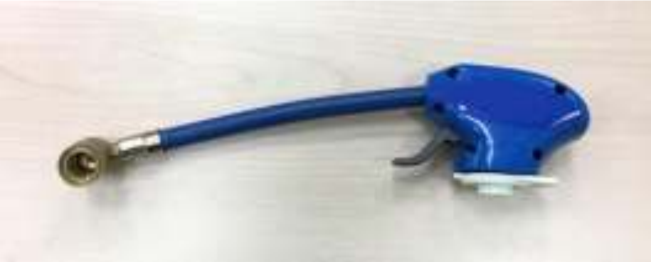
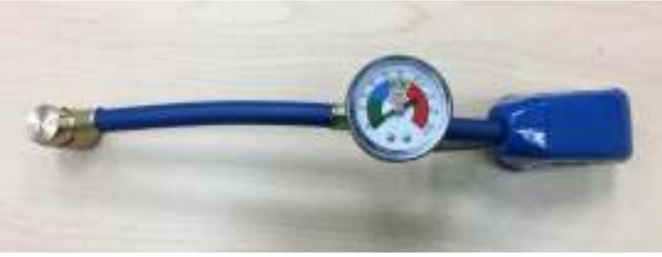
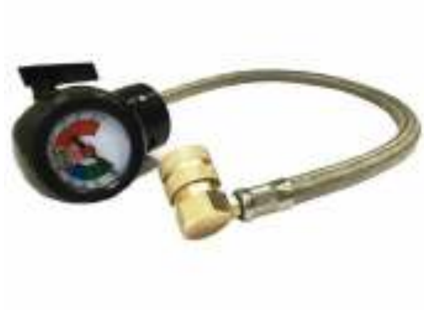
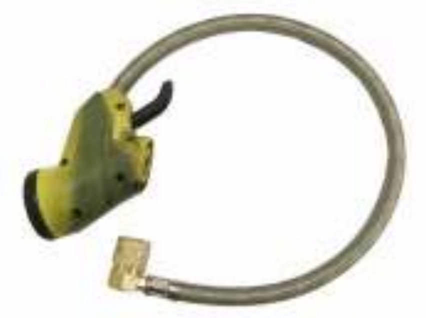


Refrigerant Checking Tube with filter,
Sight Glass Tube W/Ball Valve in two side
58949

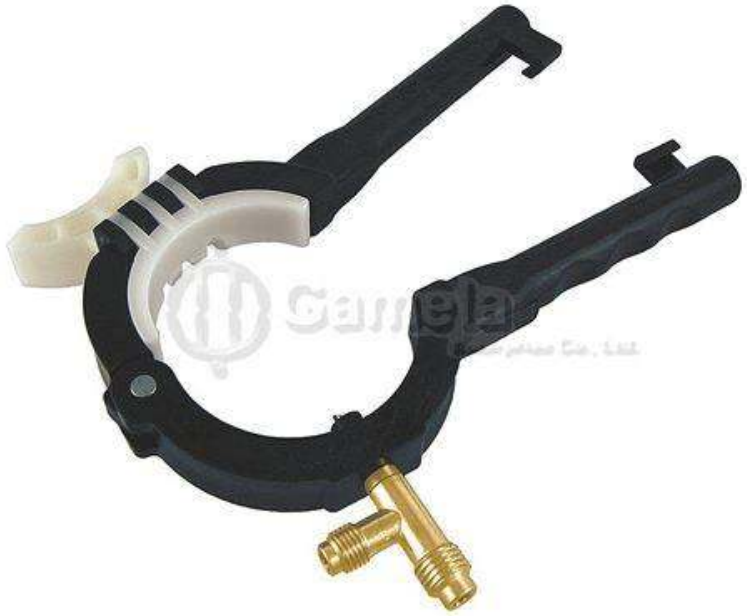


Refrigerant Checking Tube with filter,
1/4" Fitting male in two side
58949F

CHARGING KIT

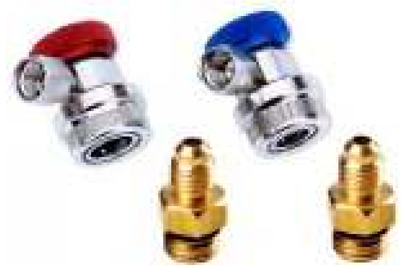
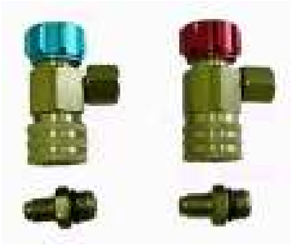
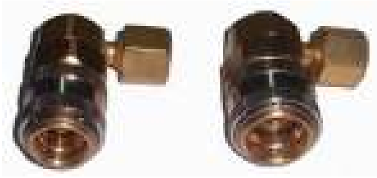
58161	58162
	
Trigger Dispensor W/O Gauge W/90 d brass quick coupler no anti-flow back	Trigger Dispensor W/Back connection Gauge W/90 d brass quick coupler no anti-flow back
58163	**58164**
 	
Charge unit with gauge, 20” hose	Charge unit with gauge, 20” hose

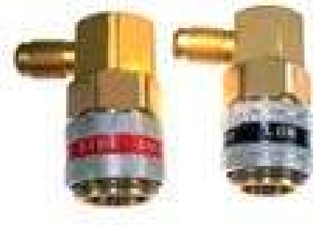
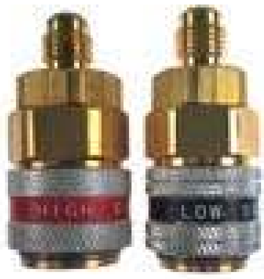
58021B

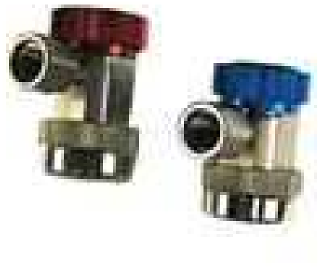
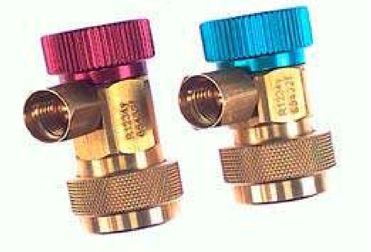
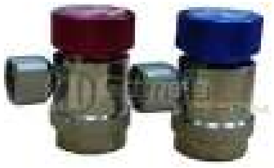


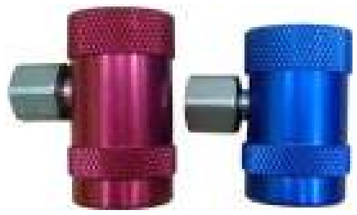
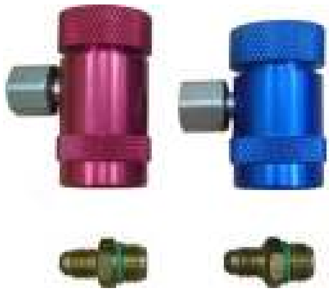
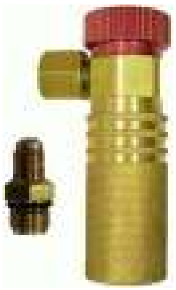
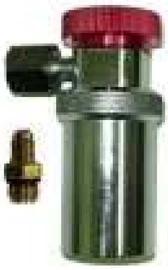
3 in 1 Side Can Tap , black color

Quick Coupler

		
50201	**50202**	**50203** 90 d 14mm X 1.5 Female

	
50204 90 d 1/4” SAE Male	**50205** Straight 1/4” SAE Male

		
50206N For R4123yf use	**50206NT** For R1234yf use	**50301S** R134a Manual Adjustable Quick Coupler setProtection Device, Anti-over turning

			
50299NSA R1234YF Manual Quick Coupler set H&L, 90d Female M12 x 1.5mm W/Protection Device, Anti-over turning Color Sleeve	**50299SA** R134a Manual Quick Coupler set H&L, 90d Female M14 x 1.5mm Color Sleeve W/Protection Device and Anti Over Tuning	**50257** Quick Coupler for BMW (High Side) 50257 with 50208 Adapter	**50230** Quick Coupler for BMW with 50208 Adapter

Valve Core Remover/Installer Tool

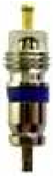
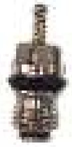
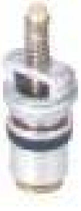
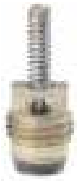
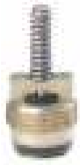
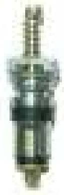
50314 W/Adapter 1/4”, 5/16” For Standard Valve Core use	**50315** W/H, L Quick Coupler for STD Valve Core use

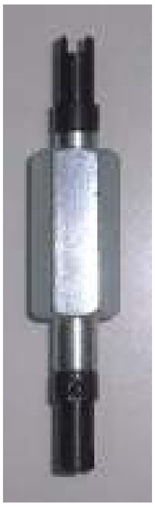
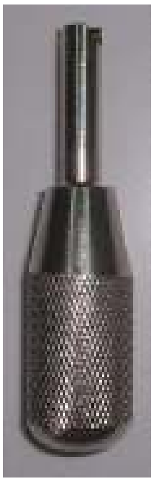
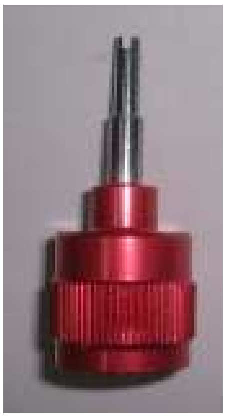
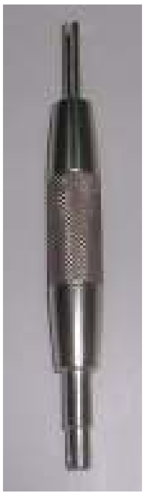
50302 for STD Valve Core use	50303 W/H, L Quick Coupler	**50311** W/ 1/4” SAE Connector for STD Valve Core use

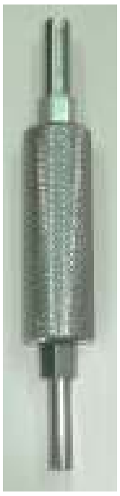
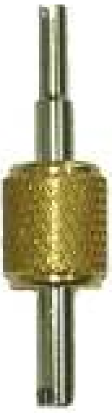
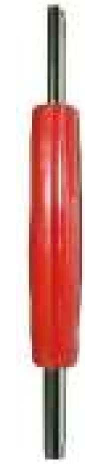
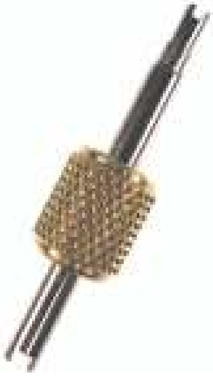
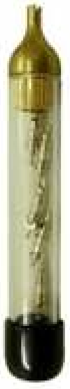
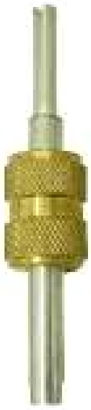
50322 Valve Core Tool With Torque Setting with torque setting, 0.4Nm

HOME

12 & R134a Valve Core

51000	Standard 51001	Late Model GM High Flow 51002	JRA High Flow 51003	JRA Hyundai and Kia 51003-H	Volvo 51004	8mm Low Side 51005	10mm High Side 51006	Renault 51007
								

			
Valve Core Tool **50301-1** pull type For Valve Core 51001, 51003	**Valve Core Tool** **50301-3** big size For Valve Core 51003, 51004, 51005, 51006	**Valve Core Tool** **50301-6** For Valve Core 51001, 51003	**Valve Core Tool** **50301-7** For Valve Core 51001, 51003, 51004, 51005, 51006

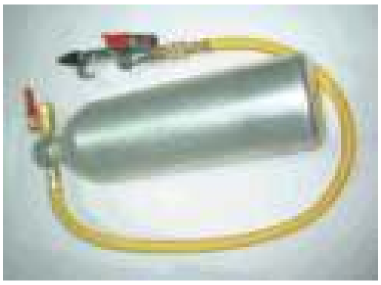
					
Valve Core Tool **50301-8** For Valve Core 51003, 51004, 51005, 51006	**Valve Core Tool** **50301-9** For Valve Core 51001, 51002, 51003, 51004 51005	**Valve Core Tool** **50301-10** For Valve Core 51001, 51002, 51003, 51004, 51005	**Valve Core Tool** **50301-11** Valve core tool, Easy snap valve core from deep hole for STD JRA. Standard Type for 51001, 51002, 51003, 51004, 51004, 51005 (similar to 50301-9)	**Valve Core Tool** **50301-12** Valve core tool, w/ STD valve core 51001 5pcs bottle container	**Valve Core Tool** **50301-13** Valve core tool, similar as 50301-5 for 51001, 51003, 51004, 51005

Universal Valve Core Remover/ Installer R134a/R12 Kit

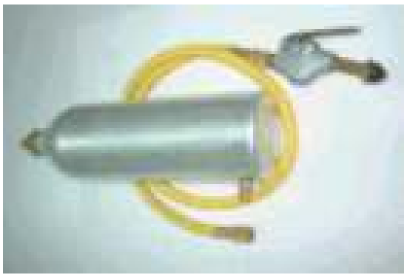
Model 50318

RI-A	valve assembly
RIQCH	R134a high side

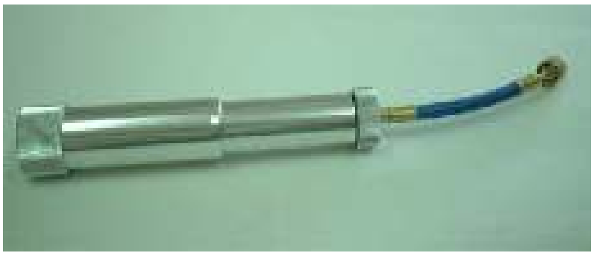
HOME



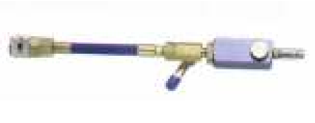
Flush Kit
Top Type
50401



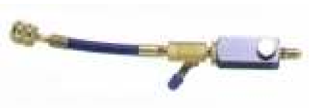
Flush Kit
Bottom Type
50402



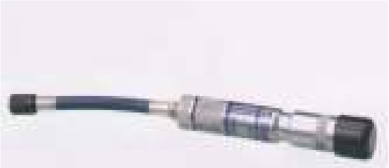
Dye Injector
Hand Turn, 2 Ounce
1/4” SAE Female Adapter W/Shut off Valve
50604



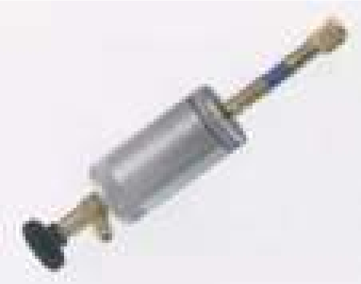
Dye Injector
1/4 Ounce
13mm Quick Coupler
50601



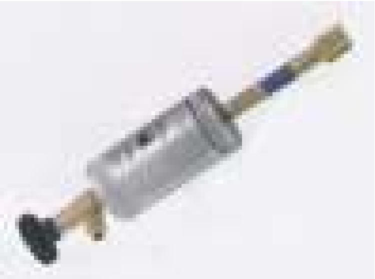
Dye Injector
1/4 Ounce
1/4” SAE Female Adapter
50602



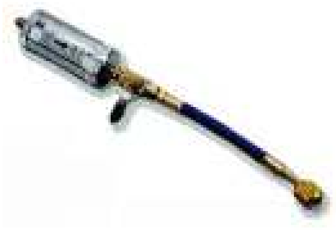
Dye Injector
Hand Turn, 1/2 Ounce
1/4” SAE Adapter
50603



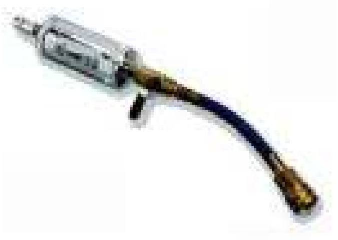
Oil Injector
2 Ounce
1/4” SAE Female Adapter
50701



Oil Injector
2 Ounce
1/2” ACME Adapter
50702



Oil Injector
2oz flow through
1/4” SAE Adapter
50703

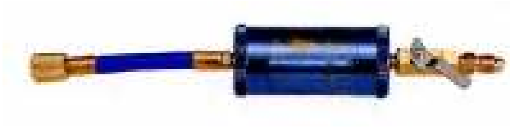


Oil Injector
2oz flow through
1/2” ACME Adapter
13mm Quick Coupler
50704

Oil Injector

2 Ounce, 1/4" SAE Adapter

50707



Oil Injector

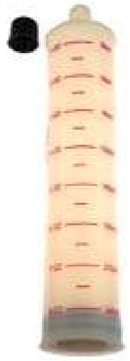
2 Ounce, 1/2" ACME Adapter

50708

Oil Injector

1/2" ACME Adapter

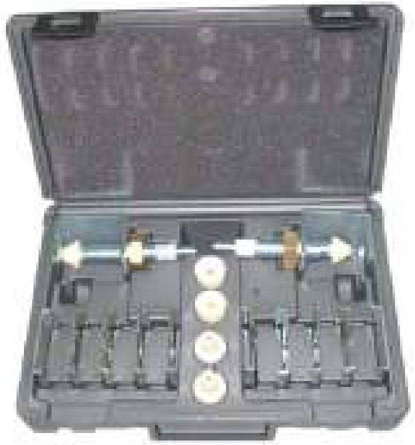
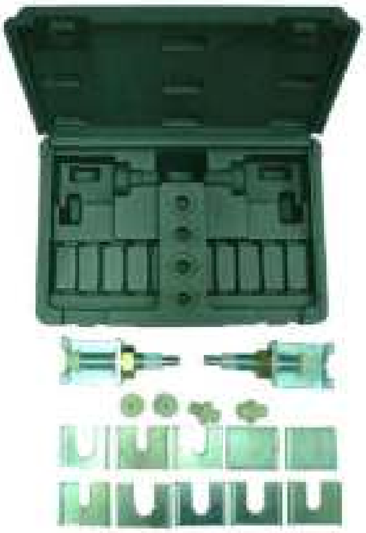
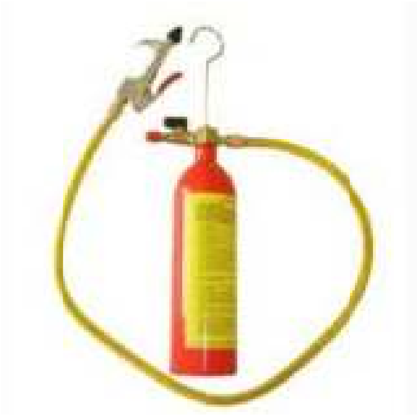
50709

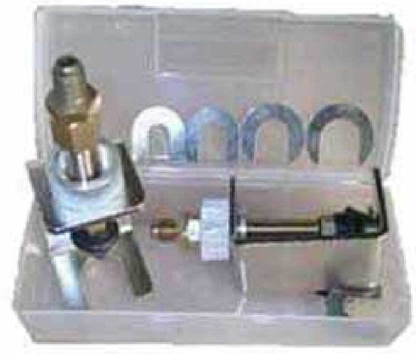


Dye & Oil Cartridge

(240ML/80oz)

10912

		
A/C Flushing Adapter Kits **58082**	**A/C flushing adapter kits** **58082A**	**Flush Kit** **(with release valve)** **50407**


A/C Flushing Adapter Kits **58142**

HOME

Gamela
58002
58003

R134a 8 Sided Service Port Socket
58002 low side
58003 high side

O'Ring Pick
58019

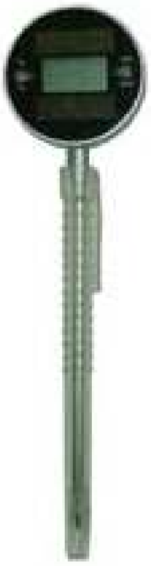
Mechanics Stethoscope
58023

MECHANICS STETHOSCOPE

Mechanics Stethoscope
58024

Stethoscope
58005

58990	58969
Laser Infrared Thermometer Temp. Range : -20 to 500°C -4 to 930°F D : S = 8 : 1 Accuracy : ±2°C or ±2% Emissivity : 0.95 Fixed Resolution : 0.2°C/0.2°F	**Infrared Thermometer W/Function Select** Temp. Range : -55 to 220°C -67 to 428°F D : S = 1 : 1 Accuracy : ±2°C or ±2% Resolution : 0.1°C/0.1°F



58936
Solar Digital Thermometer

58878 Infrared Thermometer

CE

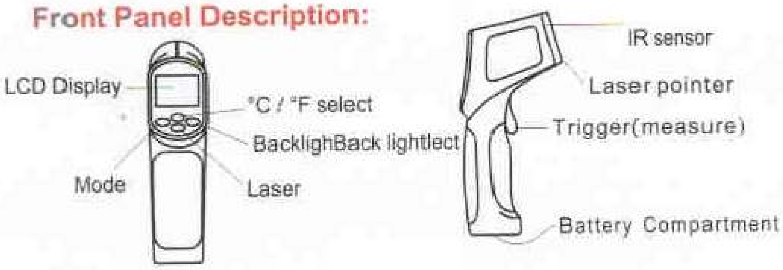
Main Functions:

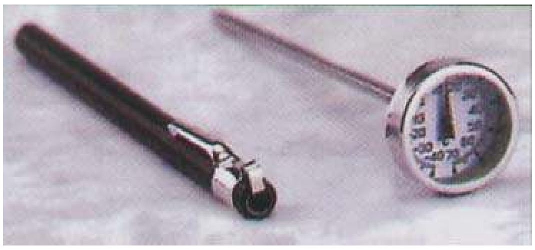
- Laser indicator.
- Changeable between °C and °F.
- Temperature range: -20 ~ 500°C
- Operating temperature: 0 ~ 50°C
- Relative humidity: 10% ~ 95% RH not condensing
  operating humidity:max.80% RH storage.

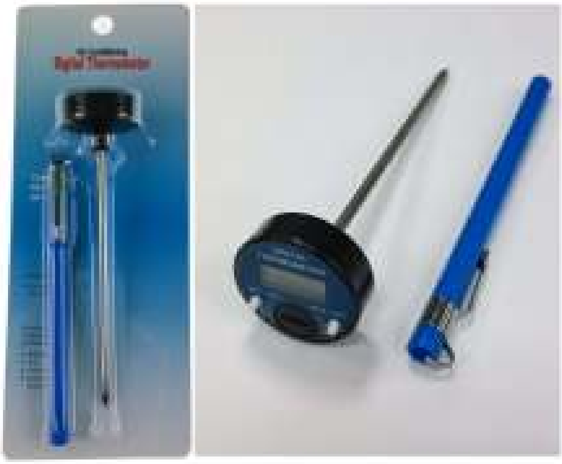
Technical Specification:

- Resolution: 0.1°C (0.1°F)
- Storage temperature: -20 ~ 50°C
- Response time: 0.8 second
- Precision: +/- 2.5% or +/- 3°C
- Distance to spot ratio: 10:1
- Power supply: 9V battery
- Laser classification:output<5mW Class IIIa
  output<1mW Class II or 2

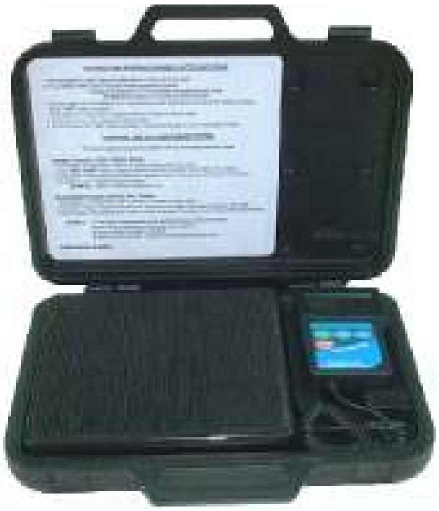
Front Panel Description:

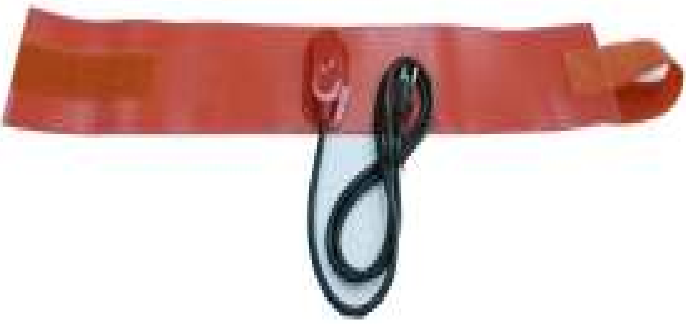

LCD Display
°C / °F select
BackligBack lightlect
Mode
Laser
IR sensor
Laser pointer
Trigger(measure)
Battery Compartment





58905	58901
Thermometer 1" Dial, 5" Stem	**Digital Thermometer** 1-1/4" Dial, 5" Stem -50°C to 200°C





58011N	50259
Digital Refrigerant Scale 80 kgs/10 gram	**Blanket Heater** 300W 50259-220 220V/50HZ 50259-110 110V/60HZ

HOME

Programmable Refrigerant Charging Scale

58608/58608Z

Introduction

The 58608 utilize the most technologically advanced and precise refrigerant meter available today with features that can not be found anywhere else. It is ideal for HVAC and refrigeration service, including Critical Charging of small refrigeration systems. With the 58608 you can measure weight in both metric and English units. The 58608 is programmable, and has a built-in alarm to indicate a programmed threshold has been exceeded.

Features

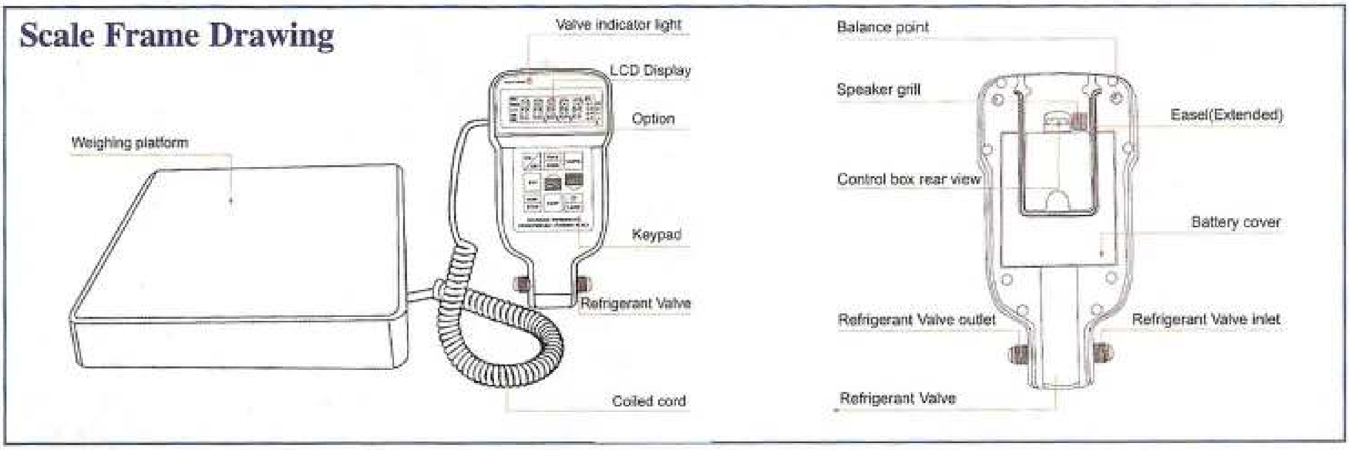
- High visibility LCD display
- 58608 measures weight in kgs and lbs.
- 58608Z measures weight in kgs, lbs, oz.
- Built-in memory remembers all previous settings.
- Built-in alarm function.
- Long battery life reach 100 hours.
- High accuracy and resolution(100kgs/5g).
- Programmable
- Can be calibrated in the field with inexpensive reference weight.

---- Battery Power Low

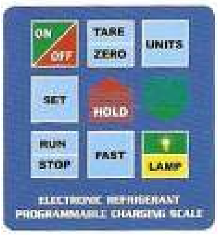
OL Scale Overload

CE

Scale Frame Drawing


Weighing platform
Valve indicator light
LCD Display
Option
Keypad
Refrigerant Valve
Coiled cord
Balance point
Speaker grill
Easel(Extended)
Control box rear view
Battery cover
Refrigerant Valve outlet
Refrigerant Valve inlet
Refrigerant Valve

Keypad

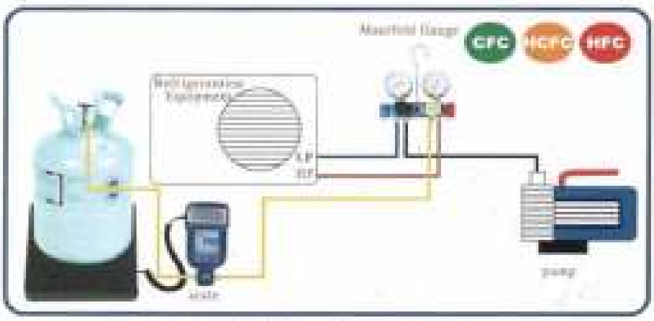

ON
OFF
TARE
ZERO
UNITS
SET
HOLD
RUN
STOP
FAST
LAMP
ELECTRONIC REFRIGERANT
PROGRAMMABLE CHARGING SCALE

ON / OFF	Press to power on. Press to power off
TARE / ZERO	Press to "TARE/ZERO" current reading on display
UNITS	Shift metric/imperial/ounce measurements
SET	Press "SET" to start program amount
HOLD	Press to increase setting charging amount or pause when charging
▼	Press to reduce setting charging amount
RUN / STOP	Press to shift FAST/SLOW setting amount. Use '5g' setting when you need to increase/reduce within 1kg. Use '100g' setting when you need to increase/reduce beyond 1kg.
FAST	Activates/Deactivates stored program. Check if electromagnetic valve work naturally.
LAMP	LCD background lamp.

NOTE: To prevent damage, never exceed the rated capacity of the 58608/50608Z.

Charging for auto A/C system

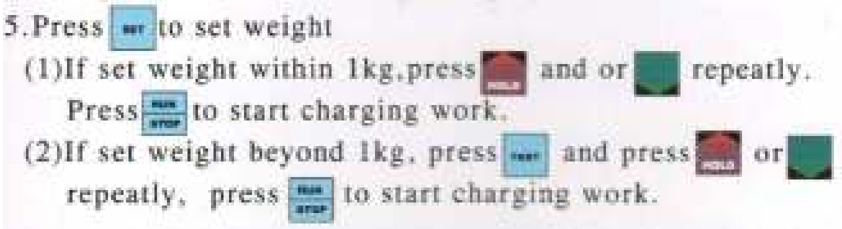
Charging for A/C system



Automatic Charging Refrigerant

Basic Weighing Operation

1. Place the weighing platform on a firm, level surface.
2. Connect one end of charging hose to “INLET” and the other end to refrigerant tank. take another hose and connect one end to “OUTLET”, the other end to A/C system or manifold.
3. Press ”ON/OFF” to turn on the scale.
4. Place refrigerant tank on centre of platform and open refrigerant tank valve, weight display on sereen.



5.Press SET to set weight

(1)If set weight within 1kg,press HOLD and or 🟩 repeatly.
Press RUN/STOP to start charging work.

(2)If set weight beyond 1kg, press SET and press HOLD or 🟩 repeatly, press RUN/STOP to start charging work.

58608

58608Z

ITEM	58608	58608Z
CAPACITY	100KGS / 220 LB	100 KGS / 220LB/ 220LB.00.0OZ
UNITS	KGS/LBS	LBS.OZ/OZ/LBS/ KG.G
ACCURACT	±0.5% OF READING +/-1 LEAST	±0.5% OF READING +/-1LEAST
RESOLUTION	0.01 IB /5G	2G / 5G
PLATFORM SIZE	8-3/4”x8-3/4” 223x223mm	8-3/4” x 8-3/4” 223x223mm
POWER	5×1.5V ALKALINE BATTERY (7.5VDC)	5×1.5V ALKALINE BATTERY (7.5VDC)
BATTERY LIFE	60 HOURS CONTINUOUS USE	60 HOURS CONTINUOUS USE
OPERATION TEMPERATURE	10℃-50℃ (50F-122F)	10℃-50℃ (50F-122F)
WEIGHT	2.74KG (6.03 IBS)	2.74KG (6.03 IBS)

Electronic Refrigerant Charging Scale

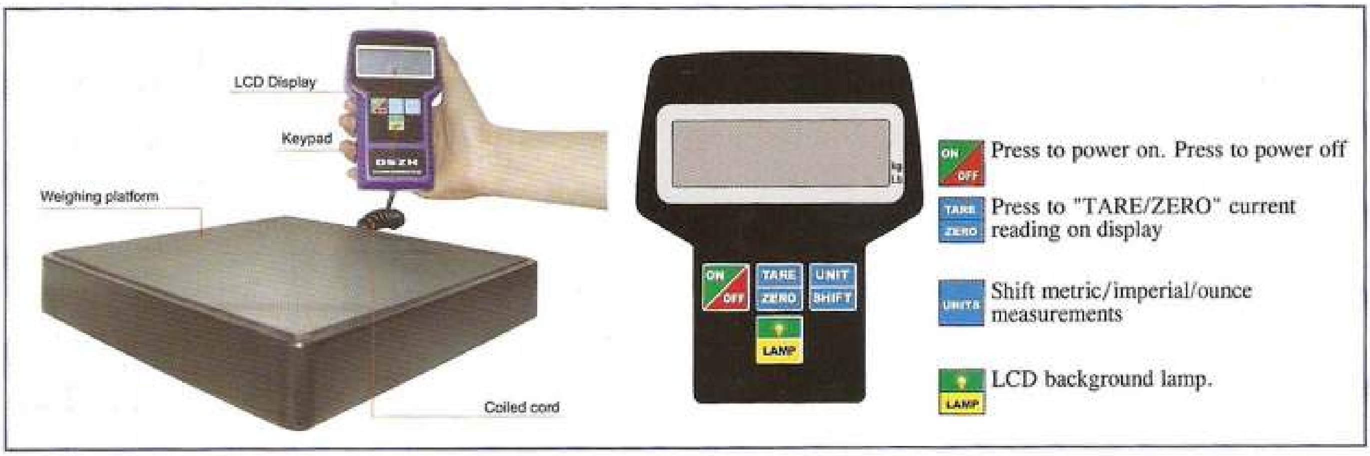
Introduction

RCS series refrigerant charging scales used for refrigerant charging, recovery & weighing of commercial A/C, auto A/C, refrigeratory systems. Portable carrying case with 223cm x 223cm platform. High capacity up to 100kgs(220lbs). High accuracy of +/-5g(0.01lb). High-visibility LCD display 66mm x20mm & 67mm x 23mm optional. Flexible 6 inches (1.83m) coil design. Long life 9V batteries.

58609L/58609H
58610L/58610H

ITEM	58609L	58609H
Range Of Weight	0.000-70.000kg or 0.000-154.000 lbs	0.000-100.000 kg or 0.000-220.00 lbs
Accuracy	±0.5% of reading	±0.5% of reading
Resolution	5g/0.01 IB	5g/0.01 IB
Unit	KG/LB	KG/LB
Power Supply	9VDC	9VDC
Operting Temp	32F To 113F (0℃ To 45℃)	32F To 113F (0℃ To 45℃)
Platform Size	8-3/4” x 8-3/4” 223x223mm	8-3/4” x 8-3/4” 223x223mm
Batter Life	30 Hours Continuous Use	30 Hours Continuous Use
Weight	2.485KG (5.47 OZ)	2.485KG (5.47 OZ)

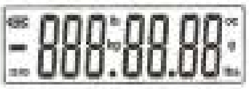
Scale Frame Drawing


LCD Display
Keypad
Weighing platform
Coiled cord
ON OFF
TARE ZERO
UNIT SHIFT
LAMP
Press to power on. Press to power off
Press to "TARE/ZERO" current reading on display
Shift metric/imperial/ounce measurements
LCD background lamp.

58609L/58609H

Unit Shift: KG/LB
Lcd Size: 66mm x 20mm
5 Digits Display

58610L/58610H



Unit Shift: KG/LB/OZ
Lcd Size: 67mm x 23mm
7 Digits Display

HOME

Operation Instructions

1. Remove scale from case and place on a smooth flat surface.
2. Press the ON/OFF key to power the scale. The LCD should display 0.00/0.000.
3. Use the UNIT/SHIFT key to choose between Kilograms (Kg) or Pounds (Lbs)
4. When charging refrigerant, place cylinder in the center of scale (do not place a cylinder over largest weight which scale can measure as damage may occur to the scale!) Attach your charging hose according to generally accepted HVAC practices, bleed air from your hose, and hit the TARE key to zero out the scale. Refrigerant charge will be displayed in negative numbers.
5. When recovering refrigerant. place tank in the center of the scale. Scale will display gross weight of tank and recovered

+ - Battery Power Low

OL Scale Overload

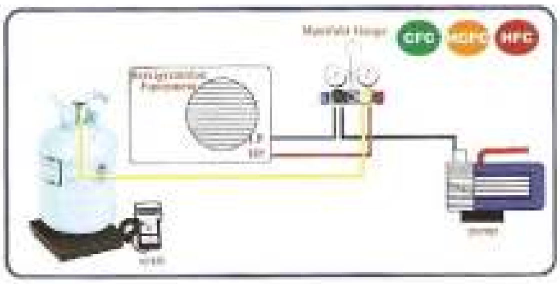
CE

Charging for A/C System

Charging for Auto Refrigeration System

Recovery

Removable Platform



Charging Refrigerant

NOTE: To prevent damage, never exceed the rated capacity of the 58609/58610.

ITEM	58610L	58610H
Range Of Weight	0.000-30.000kg or 0.000-66.000 lbs or 0 IB .00.00oz – 66 IB 00.00oz	0.000-100.000kg or 0.000-220.000 lbs or 0 IB .00.00 oz-220 IB 00.00 oz
Accuracy	±0.1% of reading	±0.5% of reading
Resolution	1 g / 0.003 IB / 0.04 OZ	5 g / 0.010 IB /0.25 OZ
Unit	Kg/Lb/OZ	Kg/Lb/OZ
Power Supply	9VDC	9VDC
Operting Temp	32F To 113F (0℃ To 45℃)	32F To 113F (0℃ To 45℃)
Platform Size	8-3/4” x 8-3/4” 223x223mm	8-3/4” x 8-3/4” 223x223mm
Batter Life	30 Hours Continuous Use	30 Hours Continuous Use
Weight	2.485KG (5.47 OZ)	2.485KG (5.47 OZ)

58611 Stainless Steel Platform Kitchen Scale

Key Features

Stainless Steel Plaform

- Stylish and compact design, ONLY 2 cm Height

-Elegant Style Match with most popular kitchenware

-Big Size platform (200 mm x 175 mm)

-Durable and Easy Cleaning Stainless Steel Surface

Hidden Hanger - Rear of Scale

- Hidden Hanger at the rear of scale which the Scale can be hanged on Anywhere to Save Space in Kitchen.

Product Specifications

Capacity: 5 kg

Graduation: 5KG/1g

Units: gram / oz. convertible

Batteries (included): 2 x CR2032 Lithium Batteries (China Made)

Other Functions: Tare Function, Auto Power Off, Overload Indicator, Low Battey Indicator.

Dimension of scale: 19.2cm (L) x cm 26.7(W) x 5.0cm (H)

Gross weight of scale: 550 gram

Packaging

Packaging materials: Brown Inner Cardboard

Gift box measurement: 24.5cm (L) x cm 21.0(W) x 4.0cm (H)

Gross weight per unit: 730g (with gift box, and inner cardboard)

Packing quantity: 12 pcs per export carton

Export carton measurement: 40.8cm (L) x 32.8cm (W) x 45cm (H)

Gross weight / Net weight per carton: 9.4kg / 8.8kg

Certificate or Approval

China Form A Available

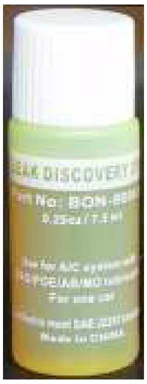
Country of Origin Certificate Available

CE Certificate Available

RoHS Complied

Hidden Hanger

UV Lighter
Adjustable head
50502



Fluorescent Leak Detection Dyes
1/4 oz single application
R12, R134a
10405

UV Lighter
50W
50503

UV Lighter
100W
50504

LED UV Lighter Set
W/50505**, Goggle, Case**
59052

LED UV Lighter
Flexible type, 3 LED
50507

LED UV Lighter
Pen Type, white,
gray, red color
50509W/G/R

LED UV Lighter
15mm LED
50508V

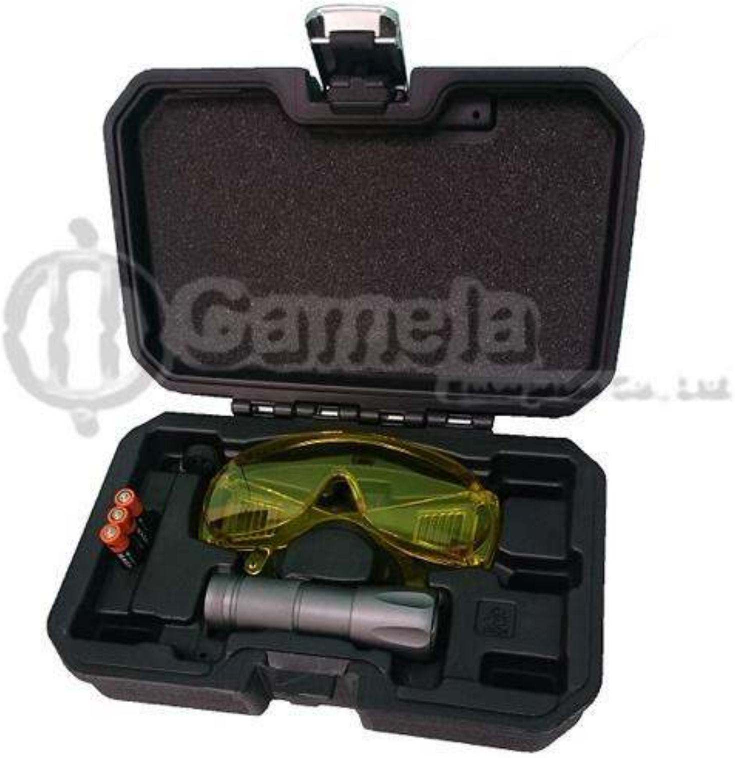
CE RoHS IP66

Rechargeable Work Light
27+6 LED UV
50512

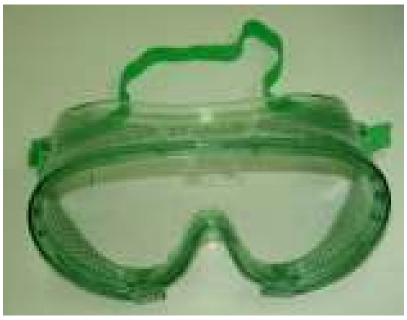
UV Lighter, 5M Cable
W/goggle 58039 (Adjustable Head)
50510

Adjustable Focus, LED UV Lighter, 3W, High Power

50515

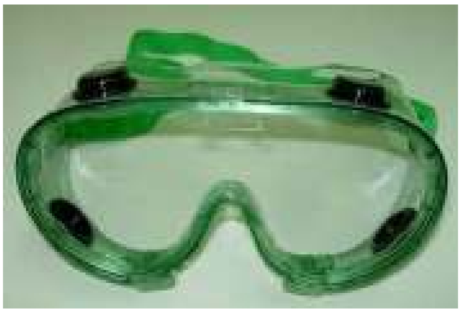


Gamela
UV LED



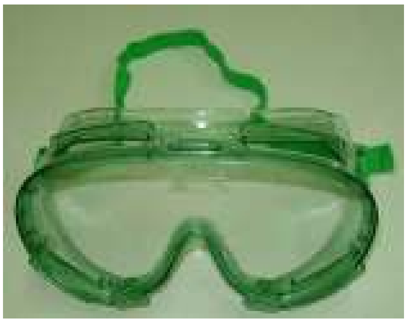
Goggle

58010



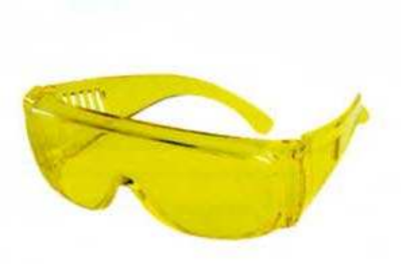
Goggle

58708

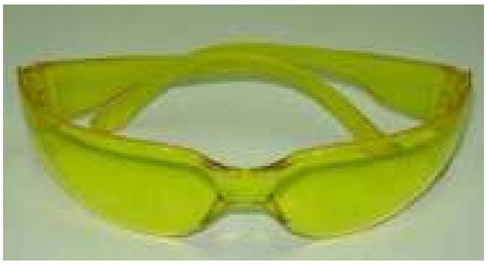


Goggle

58709



Goggle
58039



Goggle
58710

Intelligent Halogen Leak Detector, LED displaying
58006

Digital Refrigerant Leak Detector
58009

Refrigerant Leak Detector
58025

Halogen Leak Detector
Microprocessor Control
58026

Halogen Leak Detector
Microprocessor Control
58027

Halogen Leak Detector
Microprocessor Control
58028

Halogen Leak Detector
Microprocessor Control
58029

Halogen Leak Detector
Microprocessor Control
58030

Halogen Leak Detector
Microprocessor Control
58031

58137 REFRIGERANT LEAK DETECTOR

Features:

- Microprocessor Control with advanced digital signal processing.
- Multi color visual display.
- High-Low leak sensitivity selector.(58138)
- High-Med-Low sensitivity selector.(58137)
- Low battery indication.
- Semiconductor gas sensor.
- Detection of R-134a, R-410A, R-407C, R22... Freon gas.
- Carrying case included.
- 15.5” (40 CM) flexible stainless probe.
- Reference Leak source included.
- Ambient concentration reset.
- Long life, DC brushless fan. (58137)
- Variable intensity audible and visual dlarnis. (58137)

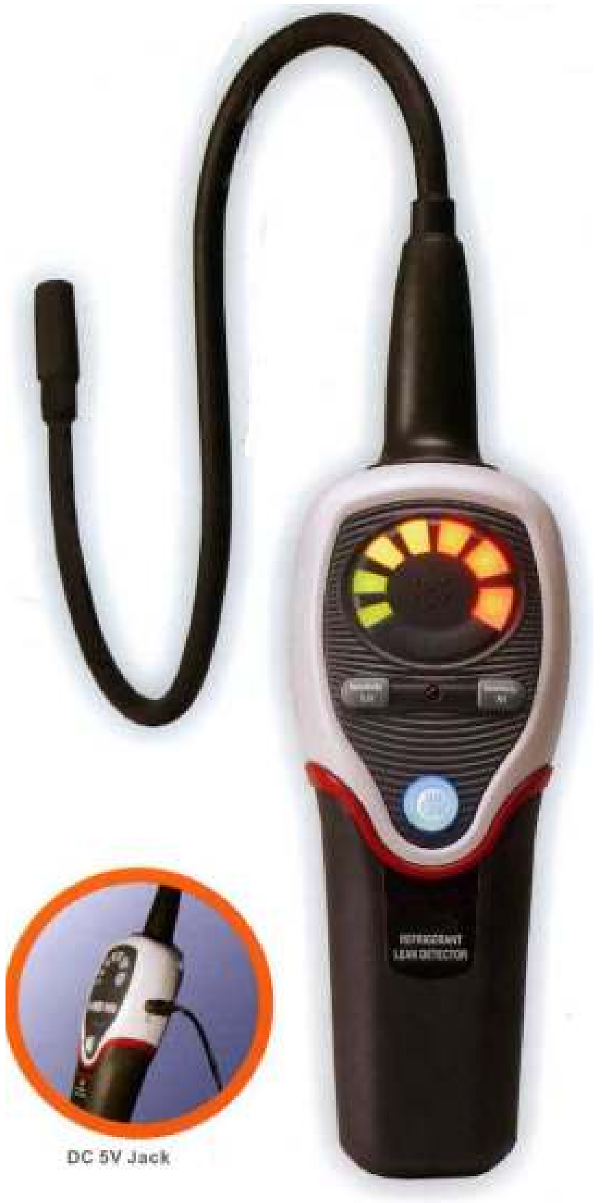
FEATURES

Air Sucking System for faster response and higher sensitivity.(58137)

Refrigerant Leakage-Detector is the perfect tool for maintaining the air-condition or a cooling system with compressor and Refrigerant.

This unit used newly developed semi-conductor sensor which is extremely sensitive to variety of general used Refrigerant.

Microprocessor Control with advanced digital signal processing.



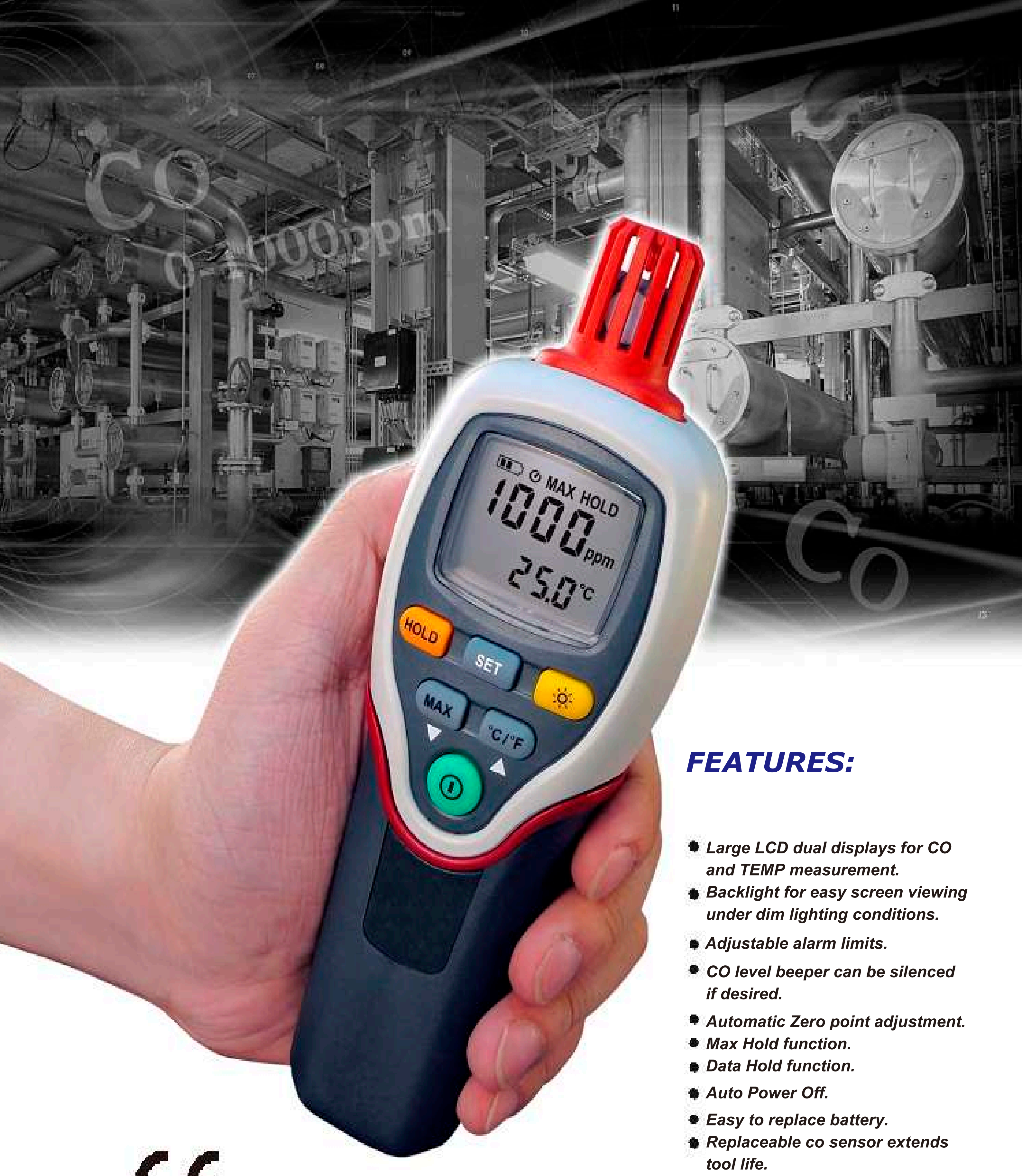
The specifications and other Information In this catalogue are subject to change without prior notice

SPECIFICATIONS

- Heated Semiconductor Gas Sensor.
- High-Low Leak Sensitivity Selector.(58138)
- 3 Levels Of Sensitivity.(58137)
- 7 LED Tn-colored Visual Leak Level Indicator.
- Variable Intensity Audible Alarm.
- Ambient Concentration Reset.
- 15.5”(4OCM) Flexible Stainless Probe.
- Detection of R-134a, R-404A, R-410A, R-407C, R-22, R-502, R-600A...Refrigerants Gas.
- Sensitivity As Small 6grlyear(58138); 3grlyear(58137).
- Accordance With SAE J1627, CE Design.
- Low Battery Indication.
- Reference Leak Source Included.
- Hard Carrying case Included.
- Warm-up Time: 45 Seconds.(58137)
- Operating Temperature: 0 to 4O℃(32 to 104℉)
- Size: 21.7 x 6.6 x 5.6cm
- Weight: 400g(with batteries)
- Power Source: 4AA Size Alkaline Batteries.
- Battery Life: Appro. 40hrs(58138)
- AC Adapter: @3.3V 0.5A(58137)

GAMELA 58156

Carbon Monoxide(CO) Meter


CO
0~1000ppm
Co
MAX HOLD
1000 ppm
25.0 °C
HOLD
SET
MAX
°C/°F

FEATURES:

- Large LCD dual displays for CO and TEMP measurement.
- Backlight for easy screen viewing under dim lighting conditions.
- Adjustable alarm limits.
- CO level beeper can be silenced if desired.
- Automatic Zero point adjustment.
- Max Hold function.
- Data Hold function.
- Auto Power Off.
- Easy to replace battery.
- Replaceable co sensor extends tool life.

CE

Gamela 58156 Carbon Monoxide (CO) METER

FEATURES

- **Large LCD dual displays for CO and TEMP measurement. Backlight**
- **for easy screen viewing under dim lighting conditions. Adjustable**
- **alarm limits.**
- **CO level beeper can be silenced if desired.**
- **Automatic Zero point adjustment.**
- **MAX Hold function.**
- **Data Hold function.**
- **Auto Power Off.**
- **Easy to replace battery.**
- **Replaceable CO sensor extends tool life.**

MAX HOLD
1000 ppm
25.0 °C
HOLD
SET
MAX
°C / °F
CO METER

SPECIFICATIONS

Meas. Range: **CO:** 0 to 1000 ppm; **Temp:** -20 to 70°C, -4 to 158°F
Resolution: 1 ppm , 0.1°C, 0.1°F
Accuracy: 5% or 5 ppm, ±0.8°C, ±1.5°F
Sensor Type: Stabilized electrochemical CO specific sensor;

Thermistor temp sensor.
Alarm limits: Adjustable.
Sensor life: 3 years (typical).
Power: 4 AA size battery.
Battery life: 200 hours (typical)
Dimensions: 204 x 65 x 45 mm
Weight: 235 g

BACKLIGHT Function

LED Back Light

CE

APPLICATIONS

- Ambient air safety checks on residential appliance.
- HVAC service on furnaces and hot water heaters.
- Home inspections.
- Industrial environments where the accumulation of CO is possible.

* The specifications and other information in this catalogue are subject to change without prior notice.

Gamela

5F., No.657-1, Zhongzheng Rd., Xinzhuang
Dist., New Taipei City 24257, Taiwan
TEL: 886-2-29013211 FAX: 886-2-29042386
Mail: young.shih@gamela.com.tw
Web: http://www.gamela.com.tw

Gamela 58157

IR REFRIGERANT LEAK DETECTOR

FEATURES

Refrigerant Leakage Detector is the perfect tool for maintaining the air-condition or a cooling system with compressor and Refrigerant. This unit uses a newly developed infrared gas sensor which is extremely sensitive to variety of general used Refrigerant.

DC 5V Jack

PEAK
MUTE
Lo BAT

SPECIFICATIONS

- Microprocessor Control with advanced digital signal processing.
- Multi color visual display.
- High-median-Low leak sensitivity selector.
- Low battery indication.
- Infrared gas sensor.
- Detection of R-134a, R-410A, R-407C, R22, R32, R1234yf… Freon gas.
- Carrying case included.
- 15.5” (40 CM) flexible stainless probe.
- Ambient concentration reset.
- Peak function – find leaks in noisy environments.
- Mute function.
- Auto-matic zero and background compensation.
- Warm-up Time: 45 Seconds.
- Operating Temperature: 0 to 40°C(32 to 104°F)
- Dimension: 254 x 71 x 54 mm
- Weight: 416g(with batteries)
  Power Usage: 3.7vdc rechargeable lithium Batteries.
- Battery Life: Appro. 10hrs
- AC Adapter: @5V 1A

CE

* The specifications and other information in this catalogue are subject to change without prior notice.

Gamela

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Mail: young.shih@gamela.com.tw
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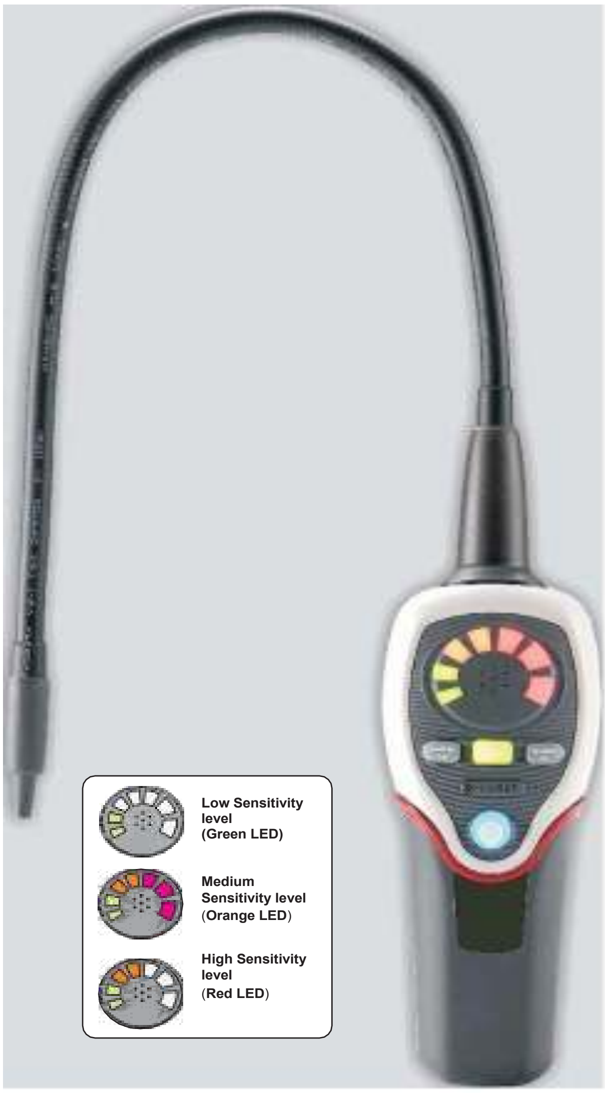
Gamela 58158 Hydrogen (H_2) Gas Leak Detector

GAMELA 58158 **Track Gas Leak Detector** can detector mixture 5% Hydrogen (H2) + 95% Nitrogen(N) with extremely sensitivity. The unit is built in newly developed heated semi-conductor sensor and microprocessor control to provide reliable digital signal processing. Adjustable leak sensitivity level and 7 LED visual indicators also offer the users the ease and convenience of operations. **It can detect less that 5 ppm Hydrogen concentration.**

KEY SPECIFICATIONS/SPECIAL FEATURES

- **Detectable Gases:**
  mixture 5% Hydrogen (H2) + 95% Nitrogen(N).
- **Sensitivity: Less than 5 ppm ; 2g/year**
- **Sensor life: approx. 1 year**
- **Response Time: Instantaneous**
- **Warm up time: 45 seconds**
- **DC brushless fan.**
- **High-median-Low leak sensitivity selector.**
- **15.5" (40 CM) flexible stainless probe.**
- **Ambient concentration reset.**
- **Automatic zero and background compensation.**
- **Carrying case included.**
- **Operating Temperature & Humidity: 0 ~40 °C, < 80% RH**
- **Dimension / Weight:**
  173 x 66 x 56 mm (approx. 400g)
- **Power Source:**
  4 AA (6V DC) size Alkaline Batteries
- **Battery Life: Approx.7 hours normal use.**


Low Sensitivity level (Green LED)
Medium Sensitivity level (Orange LED)
High Sensitivity level (Red LED)

CE **Accordance With EN35422 and EN14624, CE Design**

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Mail: young.shih@gamela.com.tw
Web: http://www.gamela.com.tw

Distributed by:

Corona Leak detector 58889

Features

◆ Detect all the refrigerants containing halogen.

◆ The detector can adjust sensitivity anytime to reach the best detection status automatically.

◆ imported chip to dispose signals, with accurate detecting result

◆ Internal high precision and stabilivolt IC, ultra-low power consumption circuit design, more stable operation, longer service life of batteries.

◆ Power voltage indication in bi-color.

◆ Exclusive designed sensor, more accuracy and longer life.

Technical parameters

◆ Operating temperature: 0℃~52℃

◆ Detection mode: continuous, unlimited

◆ MAX sensibility: 5g/yr

◆ Battery life: about 20h in normal use

◆ Power supply: 4 AAA batteries (6VDC)

◆ Conform to SAE_J1627 and EN14624 standards

◆ Conform to ROHS

◆ Response time: instant

◆ Reset time: 2-10s

◆ Warm-up time: about 6s

Specifications

◆ Overall size: 53* 50 * 175 mm

◆ Probing rod length: 20 cm

◆ Weight: 150 g

Leak detector, semiconductor type 58890 & 58891

58890

Features

Light nixie tube display
Human engineering design, more comfortable in operation
Flexible stainless steel probing rod can detect hard-to-reach places
The detector responds to all halogenated refrigerants (including Chlorine and Fluorine), which include but not limited to:
  CFCs e.g. R12, R11, R500, R503 etc.
  HCFCs e.g. R22, R123, R124, R502 etc.
  HFCs e.g. R134a, R404a, R401a, R407c, R32 etc.
  HCs e.g. R600a, R290 etc.
  HFOs e.g. R1234 etc.
With getter pump, response time and alarm clear time is reduced.
Replaceable probe

Technical parameters

6-level sensitivity regulation
Max leak detection: 3g/yr (58891: 7 level)
Response time: < 3s
Warm-up time: about 60s
Recovery time: <10s (It depends on the detection environment)
Power supply: 3 AA batteries
  (58891: rechargeable lithium battery)
Battery life: 4h
Conform to ROHS
Conform to SAE_J1627 and EN14624 standards

Specifications

Overall size: 256*53*58 mm
Probing rod length: 417 mm

Infrared leak detector, 3-level sensitivity 58892

Infrared
Refrigerant
Leak Detector

Application

Detected refrigerant: CFC, HFC, mixed HCFC, R1234fy

Technical parameters

◆ Sensitivity Levels:Per SAE J2791:
◆ High: 0.1 oz./year (4 g/year) and higher
◆ Medium: 0.25 oz./year (7 g/year) and higher
◆ Low: 0.50 oz./year (14 g/year) and higher
◆ Response Time:Less than 1 second
◆ Warm-Up Time:30 seconds; automatic calibration
◆ Operating Temperature Range:0º C to 50º C at 75% RH
◆ Run Time:8 hours on full battery charge, typical; with 10 minute auto-off
◆ Approvals:SAE J1627, SAE J2791, SAE J2913; CE (pending); EN 14624

Specifications

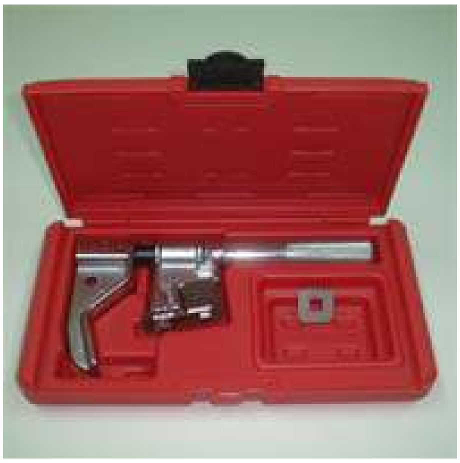
◆ Overall size: 95.2* 44.6 * 190.5 mm
◆ Probing rod length: 393.7 cm

HOME

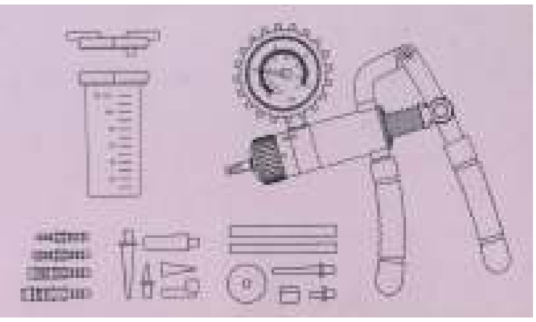
AUTO TOOLS

Thread Chaser Set
UNF
5/8-18UNF, 3/4-16UNF
7/8-14UNF, 1-14UNF
1 1/16-14UNF
59047

Thread Chaser Set
METRIC
M14 x 1.5, M16 x 1.5, M18 x 1.5
M20 x 1.5, M22 x 1.5, M24 x 1.5
M27 x 2, M28 x 1.5
59048



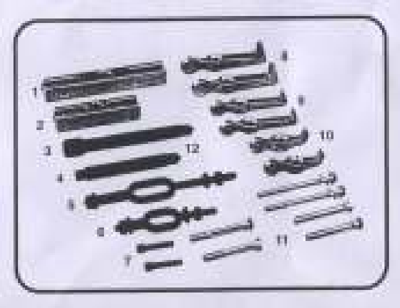
Universal Outside Thread Chaser Set
59053



Vacuum Testing/Brake Bleeding Kit
59051

HOME

Magnetic Camber Gauge
59054



Multipurpose Bearing & Pulley Puller Set
59055

TUBE TOOLS

Eccentric Cone Type Flaring Tool Chrome Plated w/zinc in/out Deburrer
59501

Sliding Die Block Flaring Tool 3/16" - 5/8"
59502

Adjustable Opening and Holding Flaring Tool 3/16"-5/8"
59503

Tube Cleaner for 1/2", 3/4"
59504

AC Clamp-on HVAC Meter
With Temperature Display
58986

Temperature Probe
58987 (TP-03)

Hygro-Thermo Meter
58984

Digital Thermometer
K/J Type Single Chaneel
58983

Digital Thermometer
K/J Type Dual Channel
58983T

Digital Thermometer
58982

HOME

AC/DC Clamp-on Meter
58979

AC/DC Clamp-on Meter
58964

Hygro-Thermo Meter
58995

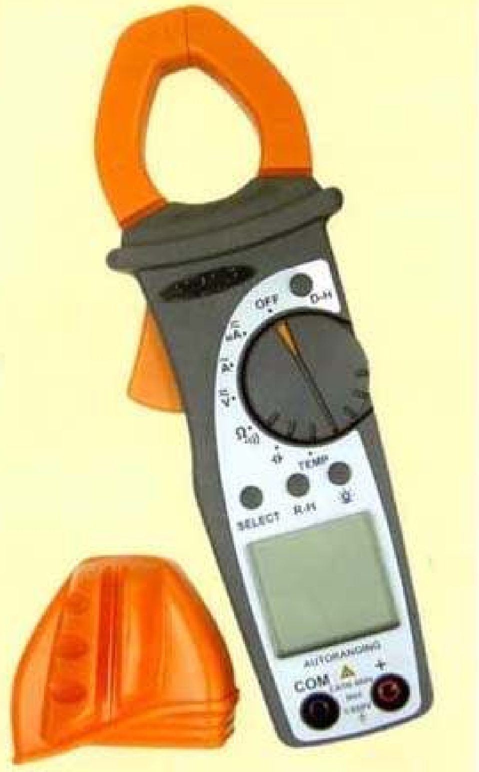
Clamp-on Meter
58994

HOME

Clamp-on Meters

58986 AC Clamp-on HVAC Meter

is designed and built for use in an environment of pollution degree 2 according to IEC 61010-1(2001) CAT III and IEC 61010-2-032(2002) CAT III 600V.



FUNCTIONS

- Auto range, Auto power off.
- Function keys:
  Select, Data Hold, Range Hold.
- Test ranges: ACμA, DCμA, ACA, DCV ACV, Ω, Continuity, Capacitance, Temperature.
- The maximum conductor size is 30mm
- Continuity test is designed buzzer sound when impedance in objective's circuit below 25Ω.
- Back light display for easy reading in the dark.

ACCESSORIES

- User's manual
- Test leads
- 1.5V battery x 2pcs
- Plug adapter with banana pins
- TP-03 temperature bead probe
- Test lead rubber holder

POWER SUPPLY

- Battery type: R03 (AB)/SIZE AAA 1.5V/UM4 battery x 2pcs.
- Battery life: 100 hours approx. (alkaline battery recommended)

DIMENSION

- Size: 205 x 64 x 39mm (L x W x H)
- Weight: About 280g (including battery)

DISPLAY

- 3¾ digits LCD with maximum reading 3999, Plus decimal point, unit symbol indication. back light
- Polarity indication: Automatic polarity, "-" display for negative input.
- Overload indication: LCD will show "OL" in the up left position.
- Low battery indication : Replace battery as LCD display " ▭ ".

SAMPLING SPEED

- Sampling rate: 2 times per second for digital display.

SPECIFICATIONS

Accuracy: ± (.....%rdg......dgt) at 23°C ± 5°C, below 80% RH.

	Range	Resolution	Accuracy	Input impedance	Overload protection
ACV (Auto/Manual)	4V	1mV	± (1.0%+3)	11MΩ	660V rms
	40V	10mV		10MΩ	
	400V	100mV			
	600V	1V	± (1.2%+3)		

	Range	Resolution	Accuracy 50Hz~500Hz	Burden voltage
ACμA (Auto/Manual)	400μA	0.1μA	± (1.2%+3)	500μ V/μA
	4000μA	1μA		

	Range	Resolution	Accuracy 50Hz~60Hz	Overload protection
ACA (Auto/Manual)	40A	0.01A	± (2.0%+10)	600A rms (60 seconds)
	400A	0.1A		

	Range	Resolution	Accuracy	Input impedance	Overload protection
DCV (Auto/Manual)	4V	1mV	± (0.8%+2)	11MΩ	660V rms
	40V	10mV			
	400V	100mV		10MΩ	
	600V	1V	± (1.2%+2)		

	Range	Resolution	Accuracy	Burden voltage
DCμA (Auto/Manual)	400μA	0.1μA	± (1.0%+2)	500μ V/μA
	4000μA	1μA		

	Range	Resolution	Accuracy	Open-circuit voltage	Overload protection
Resistance	400Ω	100mΩ	± (0.8%+5)	>0.4V	600V rms
	4KΩ	1Ω	± (0.8%+2)		
	40KΩ	10Ω			
	400KΩ	100Ω			
	4MΩ	1KΩ			
	40MΩ	10KΩ	± (3.0%+2)		

	Range	Buzzer	Max.open voltage	Overload protection
Continuity	•)))	Below 25Ω	About -1.5VDC	600V rms

	Range	Resolution	Accuracy	Test voltage	Overload protection
Capacitance	40nF	10pF	± (3.0%+10)	>3.3V	600V rms
	400nF	100pF			
	4μF	1nF			
	40μF	10nF			
	400μF	100nF			
	4000μF	1μF			
	4mF	10μF	± (5.0%+10)		

Temperature : optional temp. probe: K (CA) type.

		Range	Resolution	Accuracy
Temperature	°C	-50°C~1300°C	1°C	-50°C~0°C ± (1.8%+2°C) 0°C~500°C ± (1.0%+2°C) 500°C~1300°C ± (1.8%+2°C)
	°F	-58°F~1999°F	1°F	-58°F~32°F ± (1.8%+3°F) 32°F~932°F ± (1.0%+3°F) 932°F~1999°F ± (1.8%+3°F)
	The tolerance of temp. probe excluded			

* Max. input voltage for thermocouple: DC60V, AC24V.

HOME

Gamela
Enterprise Co., Ltd

Digital Thermometers

58984 Hygro-Thermo Meter

is designed and built according to EN 50081-1 and EN 50082-1 pass the European emissions standard and Generic European immunity standard.

68.3
T1
00.1
-50°C~1300°C
10%~95%RH
POWER
OFFSET
GAMELA 58984
HYGRO THERMOMETER

DISPLAY

- 3 1/2 digits LCD with maximum reading 1999, plus decimal point, unit symbol indication.
- Automatic polarity "-" display
- Overload indication show "OL" when humidity is above 95% RH
- Low battery indication: Replace battery immediately when LCD displays " 🔋 ".

FUNCTIONS

- Test Ranges: T2: K type -50°C~1300°C (-58°F~1999°F)
  T1: 0°C~ 60°C (32°F~140°F)
  Humidity: 10%~95% RH
- Function keys: Data Hold, T1, T2, MAX, °C/°F, POWER, 1°, 0.1°.
- Measurement for high & low temperature separately
- Alternative measuring by °C or °F
- With AC adapter jack DC 9V 100mA for long-lasting test
- With precision thin capacitive sensor instead of ventilation to measure humidity.
- Suitable for electric engineering, freezing, air conditioning, food processing fields as well as surface temperature, metal, steel, electricity, chemical, ship building, synthetic resin process and metal heat process or other temperature control/ management fields.

SAMPLING SPEED

- Sampling rate: 2.5 times per second.

SPECIFICATIONS

Accuracy: ± (.....%rdg +......°C) at 25°C, below 90% RH.

Type		Measure range	Solution	Accuracy
T1	°C	0°C~60°C	0.1°C	0°C~60°C:± (0.5%+1°C)
			1°C	0°C~60°C:± (0.5%+1°C)
T1	°F	32°F~140°F	0.1°F	32°F~140°F:± (0.3%+2°F)
			1°F	32°F~140°F:± (0.3%+2°F)
T2	°C	-50°C~1300°C	0.1°C	-50°C~199.9°C:± (0.5%+1°C)
			1°C	-50°C~1300°C:± (0.5%+1°C)
T2	°F	-58°F~1999°F	0.1°F	-58°F~199.9°F:± (0.3%+2°F)
			1°F	-58°F~1999°F:± (0.3%+2°F)
RH	AT25°C	10%~95%	0.1%RH	10%~70%RH:± 3%RH
				70%~95%RH:± (3% reading +1%RH)

Temperature probe specification

Probe model	TP-01	TP-02	TP-03	TP-04
Probe	K (CA) NiCr/NiAi thermocouple			
Temperature interface	Insulation	Grounding	Exposed	Grounding
Precision	JIS C1602 0.75 CLASS			
Dimension	3.2Ø x150mm	10Ø (climax) x150mm	Ball shape	15Ø x100mm
Max. temperature	1832°F/1000°C	1832°F/1000°C	392°F/200°C	752°F/400°C
Min. temperature	-58°F/-50°C			
Backup wire	(-20~90°C) about 1M		About 1M	(-20~90°C) about 1M
Handle	Heat resistance 150°C size 12Ø x100mm			Heat resistance 150°C size 12Ø x90mm
Sensor	K (CA) NiCr/NiAi alloy thermocouple			
Presicion	JIS C1602 0.75 CLASS or ±2.2°C			
Usage	For liquid or semi-solid	Board or metal board	For a complicate & restrict area	For the temperature of still surface
Shape	Fig. (1)	Fig. (2)	Fig. (3)	Fig. (4)

* TP-03 is a K type thermocouple temperature probe with insulation (TFL). Its maximum insulation temperature is 260°C with the accuracy of ±2.2°C or ±0.75°C (0°C to 220°C).

ACCESSORIES

- User's manual
- Carrying case
- Sensor probe
- TP-03 temperature probe x 1pc
- 9V battery x 1pc

OPERATION CONDITION

- Operational temperature: 0°C~50°C (32°F~122°F)
- Operational humidity : 0%~90% RH.
- Storage temperature: -10°C~60°C (10°F~140°F)
- Thermocouple maximum input voltage: DC 60V, AC 24V.

POWER SUPPLY

- AC adapter, DC 9V 100mA.
- Battery type: 9V NEDA 1604 IEC 6F22 JIS 006P x 1pc.
- Battery life: About 200 hours.

DIMENSION

- Size: 205 x 98 x 40mm (L x W x H)
- Weight: About 310g (including battery)
- Sensor probe: 180mm long x 24mm diameter about 110g.

Digital Thermometers

58983/58983T K/J type Single/ Dual Channel Thermometer

are designed and built according to EN 61326-1.

THERMOMETER
TYPE K/J 58983
GAMELA
°C/°F
MAX MIN
K/J
HOLD
REL

58983

THERMOMETER
TYPE K/J 58983T
T1
OL
OL
GAMELA
°C/°F
MAX MIN
K/J
HOLD
REL
T1 T2
T1-T2

58983T

DISPLAY

- 5 digits LCD, Triple display (58983T)
- Pole index: Positive pole will not appear while negative pole display with "-" mark.
- Overloading indication: Positive temperature show "OL". Negative temperature show "-OL".
- Low battery indication: Replace battery immediately when LCD displays " ▭ ".

FUNCTIONS

- Single input 58983 , Dual input 58983T
- Auto power off (20 minutes)
- Function keys: MAX./MIN. Hold, REL, T1-T2

SPECIFICATIONS

Accuracy: ± (.....%rdg +......°C) at 23°C ± 5°C, below 80% RH.

Temperature unit	°C or °F optional
Temperature range	K type : -200°C to 1370°C (-328°F to 2498°F) J type : -200°C to 1050°C (-328°F to 1922°F)
Display resolution	0.1°C (0.2°F)
Accuracy	± (0.05% ±reading +0.7°C) ± (0.05%±reading +1.4°F)
Input protection	Maximum voltage of temperature input is 24 DC or AC

Temperature Coefficient:
0.01% of reading+0.03°C per°C (0.01% of reading+0.06°F per°F) when circumstance outside the specified range of +18°C to +28°C (+64°F to +82°F)

ACCESSORIES

- User's manual
- TP-03 temperature couple 58983 x 1pc , 58983Tx 2pcs
- Belt buckle (optional)
- 9V battery x 1pc

POWER SUPPLY

- Battery type: 9V Alkaline battery NEDA 1604, IEC 6F22, JIS 006P x 1pc.
- Battery life: 200 hours approx.

OPERATION CONDITION

- Operation temperature & humidity: 0°C~50°C (32°F~122°F), below 80% RH.
- Storage temperature & humidity: 0°C~50°C (32°F~122°F), below 80% RH.

DIMENSION

- Size: 130 x 56 x 38mm (L x W x H)
- Weight: About 170g (including battery)

Gamela
Enterprise Co., Ltd.

Digital Thermometers

58982 Digital Thermometer

is designed and built according to EN 50081-1 and EN 50082-1 pass the European emissions standard and Generic European immunity standard.

OL.
°C
ON/OFF
0.1°
HOLD
1.0°
°C
°F
GAMELA 58982
THERMOMETER

ACCESSORIES

- User's manual
- Carrying case
- TP-03 thermocouple
- 9V Battery x 1pc

POWER SUPPLY

- Battery type: 9V NEDA 1604 IEC 6F22 JIS 006P x 1pc.
- Battery life: About 200 hours.

OPERATION CONDITION

- Operation temperature & humidity: 0°C~50°C (32°F~122°F), below 80% RH.
- Storage temperature & humidity: -10°C~60°C (10°F~140°F), below 80% RH.

DIMENSION

- Size : 143 x 74 x 34mm (L x W x H)
- Weight: About 226g (including battery)

DISPLAY

- 3 1/2 digits LCD with maximum reading 1999, plus decimal point, unit symbol indication.
- Low battery indication: Replace battery immediately when LCD displays "🔋".
- Polarity indication: Automatic polarity, "-" display for negative input.

FUNCTIONS

- K type thermocouple with high accuracy range of -50°C~1300°C (-58°F~1999°F)
- Alternative measuring by °C or °F
- Function keys: ON/OFF, Data Hold, °C, °F, 0.1°, 1.0°.
- Semiconductor automatic cold joint compensation.
- Suitable for electric engineering, freezing, air conditioning, food processing fields as well as surface temperature, metal, steel, electricity, chemical, ship building, synthetic resin process and metal heat process or other temperature control/management fields.

SAMPLING SPEED

- Sampling rate: 2.5 times per second.

SPECIFICATIONS

Accuracy: ± (.....%rdg +......°C) at 23°C ± 5°C, below 80% RH.

	Test Range	Resolution	Accuracy
°C	-50°C~1300°C	0.1°C	-50°C~0°C: ± (0.5%+1°C)
			0°C~199.9°C: ± (0.3%+1°C)
		1°C	-50°C~300°C: ± (0.5%+1°C)
			301°C~1000°C: ± (0.3%+1°C)
			1001°C~1300°C: ± (0.5%+1°C)
°F	-58°F~1999°F	0.1°F	-58°F~1999°F: ± (0.3%+2°F)
		1°F	-58°F~1999°F: ± (0.3%+2°F)
The tolerance of temp. probe excluded			

* Max. input voltage for thermocouple: DC60V, AC24V.

Specification of temperature excluded

TYPE / ITEM	TP-01	TP-02	TP-03	TP-04
Thermocouple material	K (CA) NiCr/NiAl alloyed thermocouple			
Contact type	Insulation type	Ground type	Exposed type	Ground type
Accuracy classification	JIS C1602 classification 0.75			
Size	3.2Ø x 150mm	10Ø (top) x150mm	Bead	15Ø x1 00mm
Max. temperature	1832°F/1000°C	1832°F/1000°C	392°F/200°C	1832°F/750°C
Min. temperature	-58°F/-50°C	-58°F/-50°C	-58°F/-50°C	-58°F/-50°C
Compensating lead-wire	(-20 to 90°C) 1m approx.		1m approx.	(-20 to 90°C) 1m approx.
Handhold	Max. alowable Heat:150°C Size:12Ø x100mm			Max. allowable Heat:150°C Size:12Ø x 90mm
Sensor	K (CA) NiCr/NiAl alloyed thermocouple			
Application	Available for liquid or gel	Available for front or plate	Available for complex or any place hard to enter	Available for precise surface

* TP-03 is a K type thermocouple isolated by TEFLON. Max. insulation temp. is 260°C, Accuracy is ±2.2°C or ±0.75% (0°C to 200°C).

Gamela
Enterprise Co., Ltd.

Clamp-on Meters

58979 AC/DC Clamp-on Meter

is designed and built for use in an environment of pollution degree 2 according to IEC 1010-1 CAT III 1000V Double and Reinforce Insulation.

58979
AC/DC DIGITAL CLAMP METER
0000
COM
CAT III

DISPLAY

- 33/4 digits LCD with maximum reading 3999, plus decimal point, unit symbol indication.
- Overload indication: LCD will show "4" or "-4" flash in the upper position accompany with continuous buzzer.
- Automatic polarity, "-" display for negative input.
- Low battery indication: Replace battery immediately when LCD displays " 🔋 ".

SAMPLING SPEED

- Sampling rate: 2 times per second.

SPECIFICATIONS

Accuracy: ± (.....%rdg......dgt) at 23°C ± 5°C, below 80% RH.

	Range	Resolution	Accuracy	Input impedance	Overload protection
ACV (Auto)	4V	1mV	± (1.2%+3)	11MΩ	DC 1000V AC 750V rms
	40V	10mV		10MΩ	
	400V	100mV			
	750V	1V	± (1.5%+5)		

	Range	Resolution	Accuracy 50Hz~60Hz	Overload protection
ACA	400A	0.1A	± (2.0%+5)	1200A (60 seconds)
	1200A	1A		

	Range	Resolution	Accuracy	Input impedance	Overload protection
DCV (Auto)	400mV	0.1mV	± (0.5%+3)	100MΩ	DC 1000V AC 750V rms
	4V	1mV		11MΩ	
	40V	10mV		10MΩ	
	400V	100mV			
	1000V	1V	± (0.8%+3)		

	Range	Resolution	Accuracy	Overload protection
DCA	400A	0.1A	± (1.5%+5)	1200A rms (60 seconds)
	1200A	1A	± (2.0%+5)	

	Range	Resolution	Accuracy	Max. open voltage	Overload protection
Resistance	400Ω	100mΩ	± (1%+3)	0.4V	DCAC 500V rms
	4KΩ	1Ω			
	40KΩ	10Ω			
	400KΩ	100Ω			
	4MΩ	1KΩ			
	40MΩ	10KΩ	± (3%+5)		

	Range	Resolution	Accuracy	Max. sensitivity	Overload protection
Frequency (Auto Ranging)	100Hz	0.01Hz	± (0.5%+1)	5V rms	AC/DC 500V rms
	1KHz	0.1Hz			
	10KHz	1Hz			
	100KHz	10Hz			
	500KHz	100Hz			

	Range	Resolution	Test voltage	Measuring current	Open voltage	Overload protection
Diode test	→⊢	1mV	± (2.0%+1)	0.7mA	3V	AC/DC 500V rms

	Range	Resolution	Sound level	Max. open voltage	Overload protection
Continuity	•)))	0.1Ω	Below 40Ω	<0.4V	AC/DC 500V rms

	Range	Resolution	Accuracy	Test voltage	Overload protection
Capacitance test (Auto)	4nF	1pF	± (3%+10)	1V	AC/DC 500V rms
	40nF	10pF			
	400nF	100pF			
	4μF	1nF			
	30μF	10nF			

FUNCTIONS

- Auto power off
- Auto zero
- Function keys: Min./Max. Hold.
- Test ranges: ACV, ACA, DCV, DCA, Ω, Capacitance, Frequency, Diode, Continuity.
- The maximum conductor size is 52mm

ACCESSORIES

- User's manual
- Test leads
- 9V battery x 1pc
- Carrying case

POWER SUPPLY

- Battery type: 9V NEDA 1604 IEC 6F22 JIS 006P battery x 1pc.
- Battery life: about 100 hours.

DIMENSION

- Size: 221 x 62 x 35mm (L x W x H)
- Weight: About 500g (including battery)

HOME

Clamp-on Meters

58964 AC/DC Clamp-on Meter

is designed and built for use in an environment of pollution degree 2 according to IEC6 1010-1 and IEC6 1010-2-032 CAT III 600V, also in comply to UL 3111-1, 3111-2-032, C22.2 NO.1010.1-92 optional standard.

CAT II
600V 400A
CE
ZERO
HOLD
RANGE
OFF
Ω
AC/DC CLAMP METER
OL
COM
V/Ω

DISPLAY

- 33/4 digits LCD with maximum reading 3999, Plus decimal point, unit symbol indication.
- Polarity indication: Automatic polarity, "-" display for negative input.
- Overload indication: LCD will show "OL" in the up left position.
- Low battery indication: Replace battery when LCD display "BATT".

FUNCTIONS

- Auto range, Auto power off (30 minutes)
- High speed bargraph
- Function keys: Data Hold, Range Hold, ZERO.
- Test ranges: ACV, ACA, DCA, DCV, Ω, Continuity.
- The maximum conductor size is 30mm
- Continuity test is designed buzzer sound when impedance in objective's circuit below 40Ω

SAMPLING SPEED

- Sampling Rate: 2 times per second for digital display.
- 20 times per second for analog display

SPECIFICATIONS

Accuracy: ± (.....%rdg......dgt) at 23ºC ± 5ºC, below 80% RH.

	Range	Resolution	Accuracy 50Hz~500Hz	Input impedance	Overload protection
ACV (Auto/Manual)	400mV	0.1mV	± (1.0%+50) 40Hz~60Hz	100MΩ	DC/AC 660V rms
	4V	1mV	± (1.0%+3)	11MΩ	
	40V	10mV		10MΩ	
	400V	100mV			
	600V	1V	± (1.2%+3)		

	Range	Resolution	Accuracy 50Hz~60Hz	Overload protection
ACA (Auto/Manual)	40A	0.01A	± (2.0%+10)	600A rms (60 Seconds)
	400A	0.1A		

	Range	Resolution	Accuracy	Input impedance	Overload protection
DCV (Auto/Manual)	400mV	0.1mV	± (0.8%+2)	100MΩ	DC/AC 660V rms
	4V	1mV		11MΩ	
	40V	10mV		10MΩ	
	400V	100mV			
	600V	1V	± (1.0%+2)		

	Range	Resolution	Accuracy	Overload protection
DCA (Auto/Manual)	40A	0.01A	±(2.0%+10)	600A rms (60 Seconds)
	400A	0.1A		

	Range	Buzzer	Max.open voltage	Overload protection
Continuity	·)))	Below 40Ω	About -1.5VDC	600V rms

	Range	Resolution	Accuracy	Max. open voltage	Overload protection
Resistance (Auto/Manual)	400Ω	0.1Ω	± (1%+5)	About -1.5VDC	DC/AC 660V rms (60 Seconds)
	4KΩ	1Ω	± (1%+3)	About -0.45VDC	
	40KΩ	10Ω			
	400KΩ	100Ω			
	4MΩ	1KΩ			
	40MΩ	10Ω	± (3%+3)		

ACCESSORIES

- User's manual
- Test leads
- 1.5V battery x 2pcs

POWER SUPPLY

- Battery type: R03 (AB)/SIZE AAA 1.5V/ UM4 x 2pcs.
- Battery life: 50 hours approx. (alkaline battery recommended)

OPERATION CONDITION

- Operating temperature & humidity: 5°C~40°C, below 80% RH.
- Storage temperature & humidity: -10°C ~ 60°C, below 70% RH.

DIMENSION

- Size: 195 x 64 x 30mm (L x W x H)
- Weight: About 240g (including battery)

HOME

58929 400A Autoranging AC/DC Clamp-On Meter

DISPLAY

- 3 3/4 digits LCD with maximum reading 4000 plus decimal point, unit symbol indication.
- Low battery indication : Replace battery when LCD display “🔋”.

FUNCTIONS

- IEC 61010-1(2001) and IEC 61010-2-032(2002) CAT III 600V.
- Auto range, Auto power off (30 minutes)
- Function keys: Max./Min(for TM-1015), Data Hold, Range Hold, Auto Zero.
- Test ranges: ACV, ACA, DCV, DCA, Ω, Continuity.
- The maximum conductor size is 30mm
- When Impedance in circuit is below 40Ω, the buzzer will sound.
- Double injection /Back light (for TM-1015).

SPECIFICATIONS

Accuracy: ± (.....%rdg......dgt) at 23°C ± 5°C, below 80% RH.

	Range	Resolution	Accuracy 50Hz~500Hz	Input impedance	Overload protection
ACV	400mV	0.1mV	± (1.0%+50) 40Hz~60Hz	100MΩ	DC/AC 660V rms
	4V	1mV	± (1.0%+3)	11MΩ	
	40V	10mV		10MΩ	
	400V	100mV			
	600V	1V	± (1.2%+3)		

	Range	Resolution	Accuracy 50Hz~60Hz	Overload protection
ACA	40A	0.01A	± (2.0%+10)	600A rms (60 Seconds)
	400A	0.1A		

	Range	Resolution	Accuracy	Input impedance	Overload protection
DCV	400mV	0.1mV	± (0.8%+2)	100MΩ	DC/AC 660V rms
	4V	1mV		11MΩ	
	40V	10mV		10MΩ	
	400V	100mV			
	600V	1V	± (1.0%+2)		

	Range	Resolution	Accuracy	Overload protection
DCA	40A	0.01A	± (2.0%+10)	600A rms (60 Seconds)
	400A	0.1A		

	Range	Buzzer	Max.open voltage	Overload protection
Continuity	·ı))	Below 40Ω	About -1.5Vᴅᴄ	600V rms

	Range	Resolution	Accuracy	Max sensitivity	Overload protection
Resistance	400Ω	0.1Ω	± (1%+5)	About -1.5Vᴅᴄ	DC/AC 660V rms (60 Seconds)
	4KΩ	1Ω	± (1%+3)	About -0.45Vᴅᴄ	
	40KΩ	10Ω			
	400KΩ	100Ω			
	4MΩ	1KΩ			
	40MΩ	10KΩ	± (3%+3)		

ACCESSORIES

- User's manual
- Carrying case
- Test leads & test lead rubber holder
- 1.5V battery x 2pcs

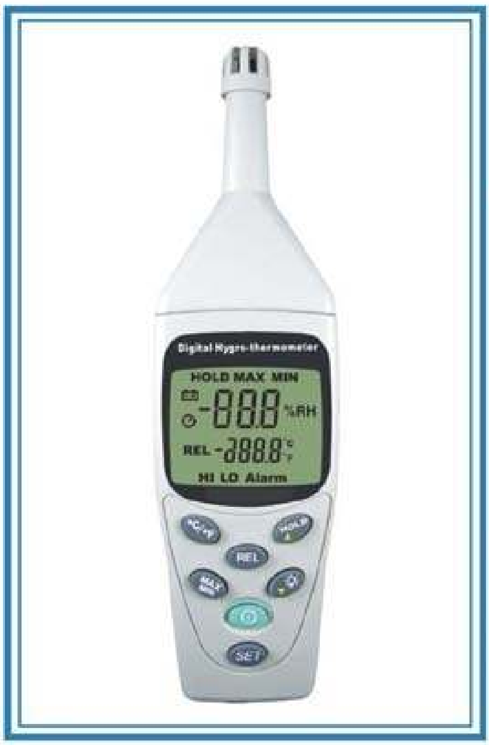
POWER SUPPLY

- Battery type: R03 (AB)/SIZE AAA 1.5V/ UM4 battery x 2pcs.
- Battery life: 50 hours approx. (alkaline battery recommended)

DIMENSION

	TM-1015
SIZE (L*W*H)	205*64*39
Weight	280g

58930 Hygro-Thermo Meter



DISPLAY

- 3 1/2 digits back light LCD with maximum reading 2000, plus decimal point, unit symbol indication.
- Sampling rate: 2.5 times per second.

FUNCTIONS

- Alternative measuring by °C or °F
- Temperature and Humidity alarm beep sound when temperature display reaches high/low limit.
- Auto power off.
- Real Time with Max Min Recording.
- Hold Function.
- REL (relative) Function.
- Suitable for electric engineering, freezing, air conditioning, food processing fields as well as surface temperature, metal, steel, electricity, chemical, ship building, synthetic resin process and metal heat process or other temperature control/management fields.

SPECIFICATIONS

- Temperature measure ranges: -40°C ~ 60.0°C (-40°F ~ 140°F)
- Humidity measure ranges: 1.0 ~ 99.0 RH.
- Resolution: 0.1°C/ 0.1°F(-40°C/°F~99.9°C/°F); 0.1% RH .
- Accuracy: 0.5°C, 2.5% RH.

DIMENSION

- Size: 200 x 55 x 38mm (L x W x H)
- Weight: About 165g (including battery)

POWER SUPPLY

- Battery type: 9V NEDA 1604 IEC 6F22 JIS 006P x 1pc.
- Battery life: About 200 hours.

ACCESSORIES

- User's manual
- Carrying case
- 9V battery x 1pc

HOME

GAMELA
PROFESSIONAL
INFRARED THERMOMETER
NEW!!
Petrochemical
Electronic Power
58998LD(E)
58998LB(E)
58998LC(E)
White LED Flashlight (Option)
Steel-making

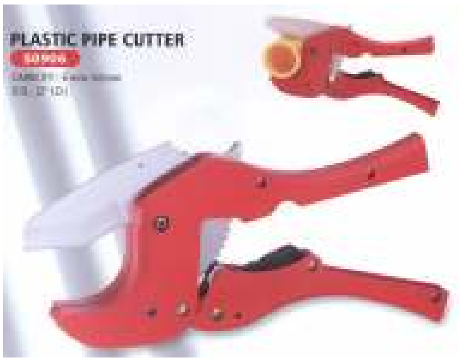
- Select operating modes and adjust parameters easily
- Built-in jack support and K-type TC probe with "mini" style connector
- With White LED Flashlight (option)
- Various Measurement Range & DS Ratio for option
- AAA battery used with longer battery life than traditional 9V battery.

58998L1(E)

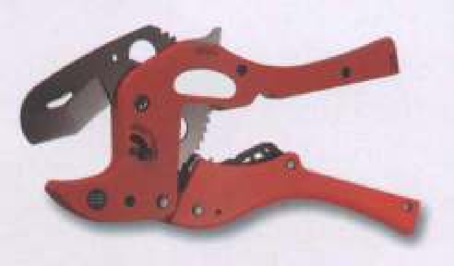
Specifications

Model No	58998LD(E)	58998LB(E)	58998LC(E)	58998L1(E)
Description	IRT + Laser + Thermocouple socket, (E) with LED Flashlight(option)		IRT + Laser, (E) with LED Flashlight (option)	
Measurement Range	-60~625° C (-76~1157° F)	-60~760° C (-76~1400° F)	-60~500° C (-76~932° F)	-60° ~500° C (-76~932° F)
Operating Range	0~50° C(32~122° F)			
Accuracy(Tobj=15-35° C, Tamb=25° C)	+/-1.0° C(+/-1.8° F)			
Full Range Accuracy	Tobj=0~825° C: +/-2% of reading or 2° C(4° F)whichever is greater. Tobj=-60~0° C:+/-(-2° C+0.05/degree)	Tobj=60~0, +/-(2+0.05/degC) degC Tobj=0-760:+/-2% of reading or 2° C(4° F) whichever is greater	(Tobj=-33~500° C, Tamb=23+/-3° C)+/-2% of reading or 2° C(4° F) whichever is greater	(Temb=23+/-3° C) 0~500° C:+/-2% of reading or 2° C(4° F)whichever is greater -60~0° C:+/-(2° C+0.05/degree)
Resolution(-9.9~199.9° C)	0.1° C/0.1° F			
Response Time(90%)	0.5~ sec.			
Distance: Spot	16:1	30:1	12:1	12:1
Emissivity Range	0.1~1 Step.01		Fixed0.95	
Update Frequency	1.4Hz			
Dimension	46.0x143.0x184.8mm(1.81x5.63x7.28inch)			
Wave Length	8um-14um		5μm~14μm	
Thermocouple Probe	Small Socket, K type, 12minutes auto PowerOff		—	
Measurement Range*	-64~1400° C(-83.2~1999° F)		—	
Probe Accuracy	+/-1% of reading or 1° C (whichever is greater)		—	

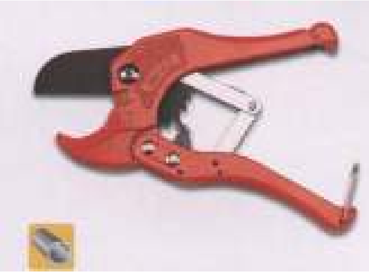
*Actual Temperature Range Depends on the TC Probe Selected.



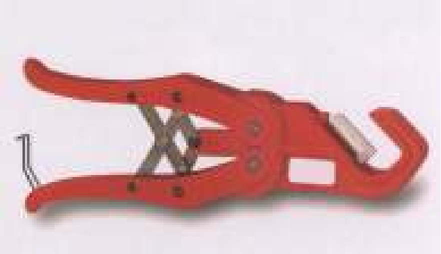
Plastic Pipe Cutter
6mm – 63mm O.D.
50906



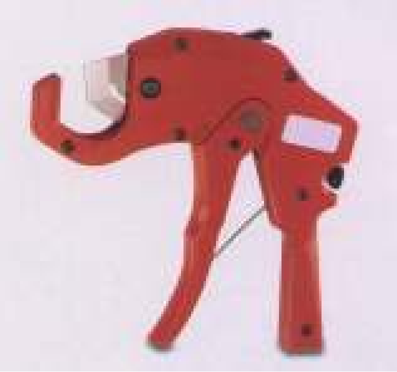
Plastic Pipe Cutter
6mm – 50mm O.D.
50908



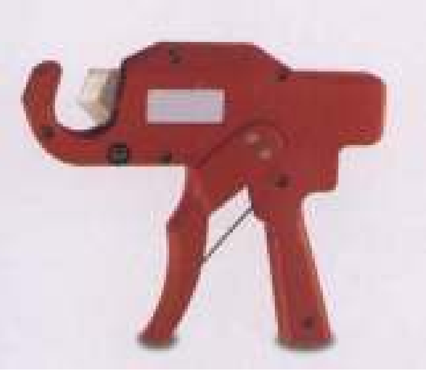
Plastic Pipe Cutter
6mm – 42mm O.D
50913



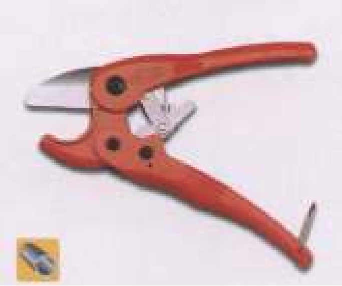
Tubing Cutter
Cut flexible plastic & Rubber Tube
Up to 25mm O.D.
50909



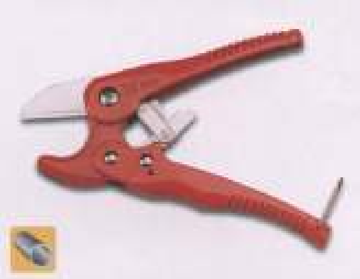
Plastic Pipe Cutter
6mm – 42mm O.D.
.50925



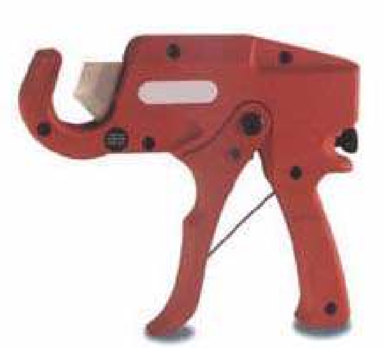
Plastic Pipe Cutter
6mm – 35mm O.D.
50924



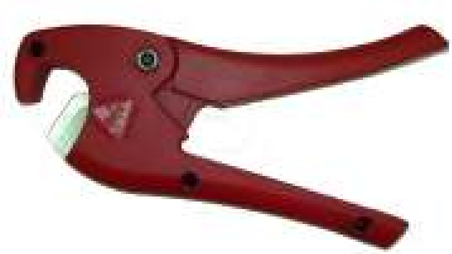
Plastic Pipe Cutter
6mm – 25mm O.D.
50911



Plastic Pipe Cutter
6mm – 35mm O.D. .
50912

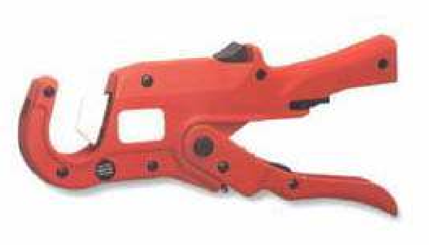


Plastic Pipe Cutter
6mm – 35mm O.D.
50921

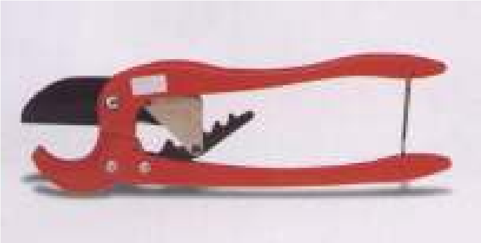


Tube Cutter
Plastic Material
6mm – 25mm O.D.
50995

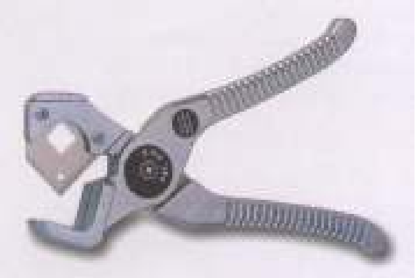
HOME



Plastic Pipe Cutter
6mm – 35mm O.D.
50922

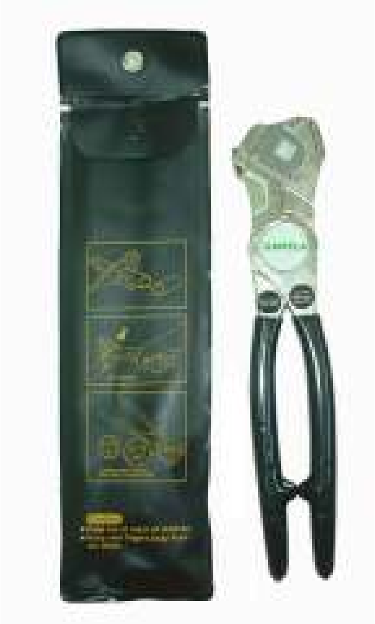


Plastic Pipe Cutter
6mm – 63mm O.D
50926



Die-Cast Zinc Alloy Tubing Cutter
Cut flexible plastic & Rubber Tube

Up to 25mm O.D
50910



Die-Cast Zinc Alloy Tubing Cutter
Cut flexible plastic & Rubber Tube
Up to 35mm O.D
50994

Tubing Cutter
Aluminum Handle
6mm – 37mm O.D.
50914A

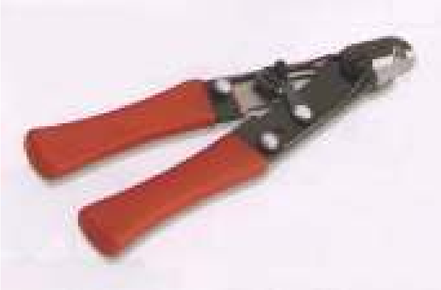
Tubing Cutter

6mm – 58mm O.D.
50915

Tubing Cutter

6mm – 80mm O.D.
50916

Tubing Cutter
Plastic Handle
6mm – 37mm O.D.
50914

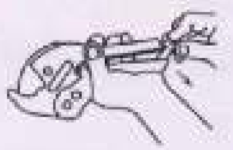


Capillary Tube Cutter
50920

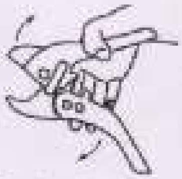
Tubing Cutter
Die-Cast Aluminum Alloy.
6mm-42mm O.D. (1 1/4” I.D.)
50917

Tubing Cutter
Die-Cast Aluminum Alloy
50mm O.D. (1 5/8” I.D.)
50918

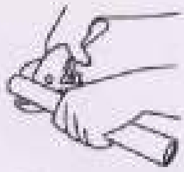
Tubing Cutter
Die-Cast Aluminum Alloy
63mm O.D. (2” I.D.)
50919



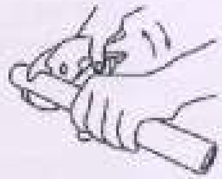
1) Pulling the safe holder



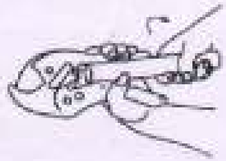
2) Put down the trigger when retract blade.



3) Position the pipe beteen blade and lower jaw. Squeeze and release handles until the blade contacts the plastic pipe.

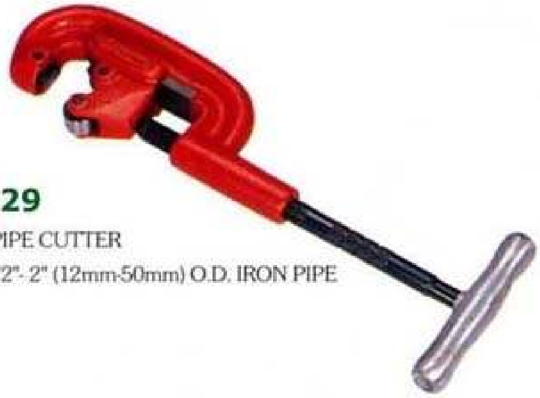


4) Continue to squeeze and release handles until pipe is completly cut.



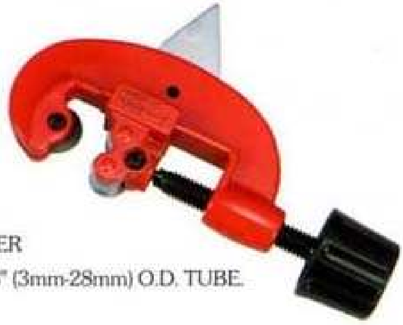
5) Scraping put pipe between handle and trigger then turn the pipe.

HOME



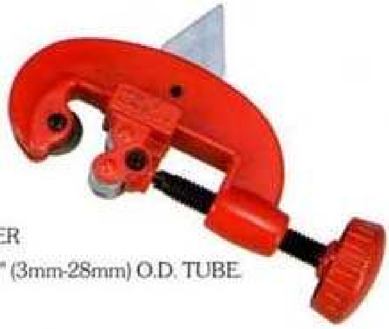
50929

IRON PIPE CUTTER
FOR 1/2"- 2" (12mm-50mm) O.D. IRON PIPE



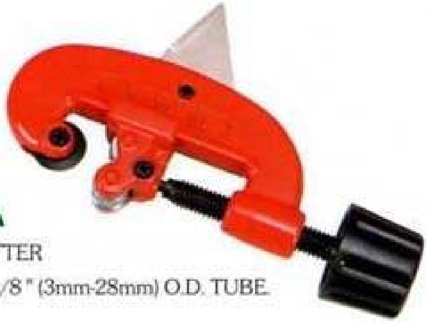
50930A

TUBING CUTTER
FOR 1/8"- 1 1/8" (3mm-28mm) O.D. TUBE.



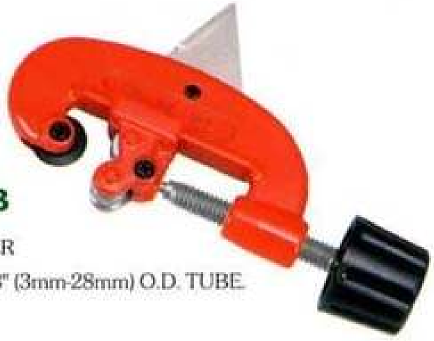
50930B

TUBING CUTTER
FOR 1/8"- 1 1/8" (3mm-28mm) O.D. TUBE.



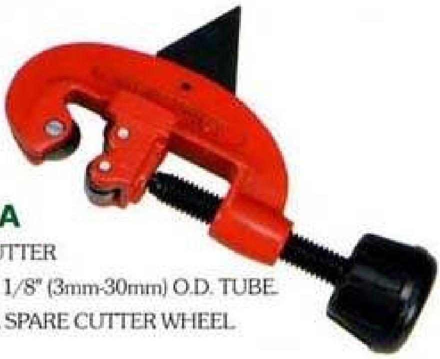
50931A

TUBING CUTTER
FOR 1/8"- 1 1/8 " (3mm-28mm) O.D. TUBE.



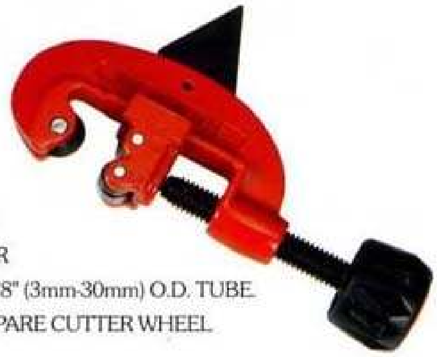
50931B

TUBE CUTTER
For 1/8"-1 1/8" (3mm-28mm) O.D. TUBE.



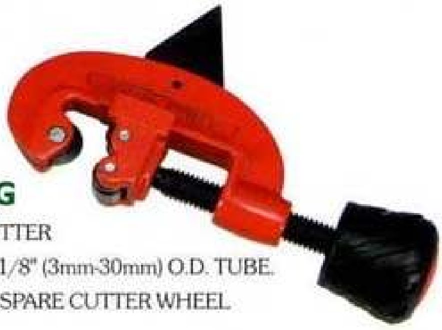
50932A

TUBING CUTTER
FOR 1/8"- 1 1/8" (3mm-30mm) O.D. TUBE.
INCLUDE A SPARE CUTTER WHEEL



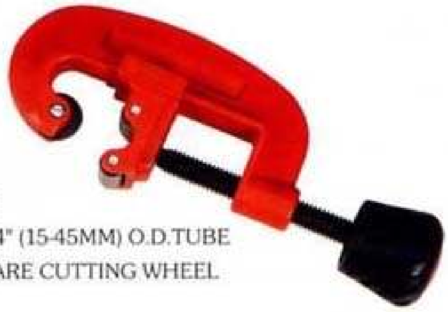
50932B

TUBE CUTTER
FOR 1/8"- 1 1/8" (3mm-30mm) O.D. TUBE.
INCLUDE A SPARE CUTTER WHEEL



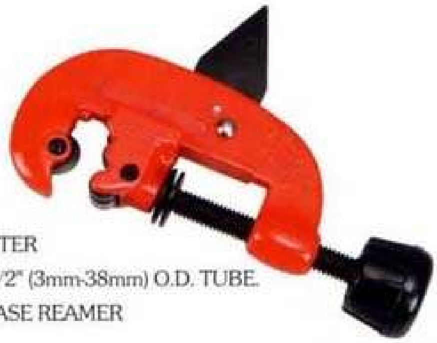
50932G

TUBING CUTTER
FOR 1/8"- 1 1/8" (3mm-30mm) O.D. TUBE.
INCLUDE A SPARE CUTTER WHEEL



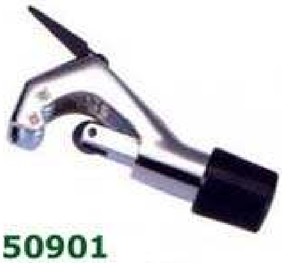
50933

TUBE CUTTER
FOR 1/2" - 1 3/4" (15-45MM) O.D.TUBE
INCLUDE A SPARE CUTTING WHEEL

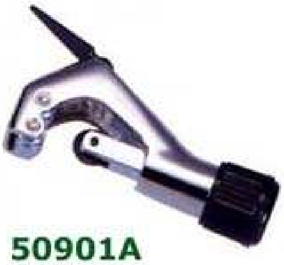


50934

TUBING CUTTER
FOR 1/8"- 1 1/2" (3mm-38mm) O.D. TUBE.
QUICK RELEASE REAMER

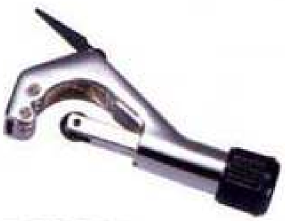


50901

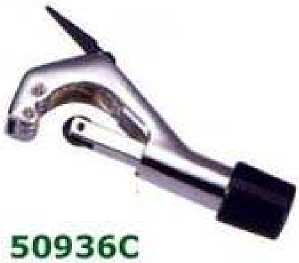


50901A

TELESCOPIC TUBE CUTTER
FOR 1/8"- 1 1/8" (3mm-28mm) O.D. TUBE.
INCLUDE A SPARE CUTTER WHEEL

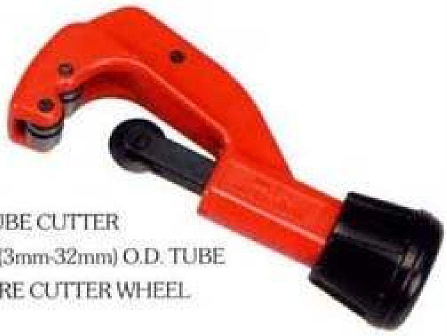


50936A



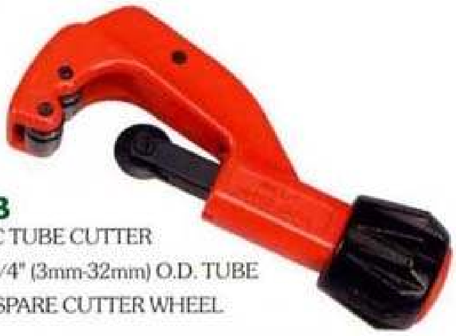
50936C

TELESCOPIC TUBE CUTTER
FOR 1/4"- 1 5/8" (6mm-42mm) O.D. TUBE.
INCLUDE A SPARE CUTTER WHEEL



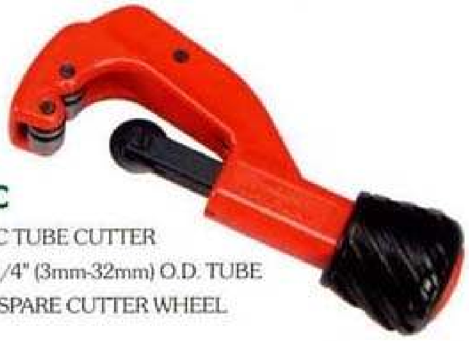
50937A

TELESCOPIC TUBE CUTTER
FOR 1/8"-1 1/4" (3mm-32mm) O.D. TUBE
INCLUDE A SPARE CUTTER WHEEL



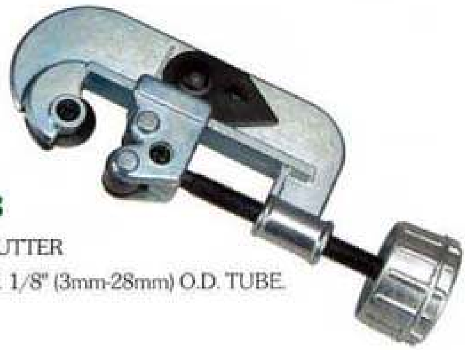
50937B

TELESCOPIC TUBE CUTTER
FOR 1/8"-1 1/4" (3mm-32mm) O.D. TUBE
INCLUDE A SPARE CUTTER WHEEL



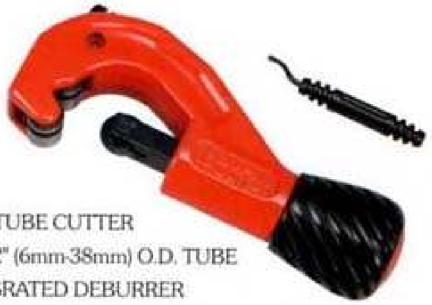
50937C

TELESCOPIC TUBE CUTTER
FOR 1/8"-1 1/4" (3mm-32mm) O.D. TUBE
INCLUDE A SPARE CUTTER WHEEL



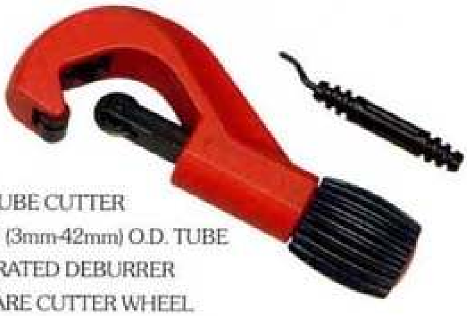
50938

TUBING CUTTER
FOR 1/8"- 1 1/8" (3mm-28mm) O.D. TUBE.



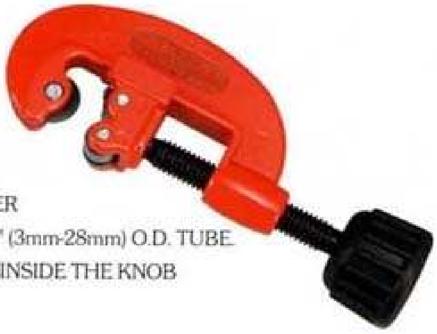
50939

TELESCOPIC TUBE CUTTER
FOR 1/4"-1 1/2" (6mm-38mm) O.D. TUBE
WITH A INTEGRATED DEBURRER
INCLUDE A SPARE CUTTER WHEEL



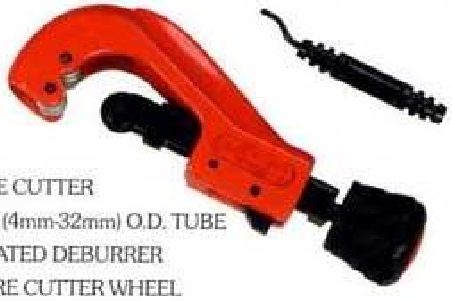
50940

TELESCOPIC TUBE CUTTER
FOR 1/8"-1 5/8" (3mm-42mm) O.D. TUBE
WITH A INTEGRATED DEBURRER
INCLUDE A SPARE CUTTER WHEEL



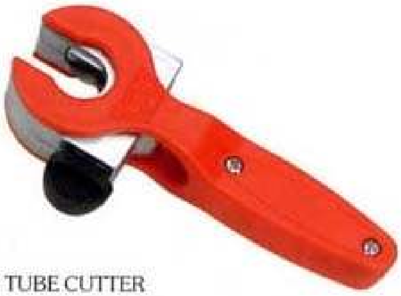
50941

TUBING CUTTER
FOR 1/8"- 1 1/8" (3mm-28mm) O.D. TUBE
WITH REAMER INSIDE THE KNOB



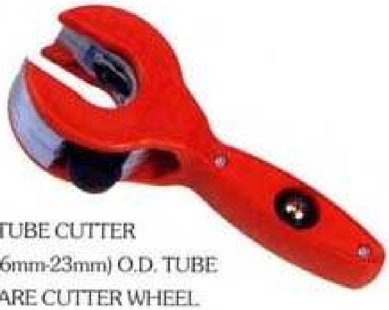
50942

ZIPACTION TUBE CUTTER
FOR 3/16"-1 1/4" (4mm-32mm) O.D. TUBE
WITH A INTEGRATED DEBURRER
INCLUDE A SPARE CUTTER WHEEL



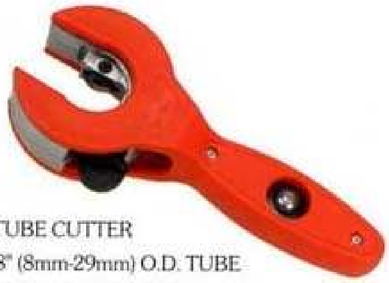
50943

RATCHETING TUBE CUTTER
FOR 1/8"-1/2" (3mm-12mm) O.D. TUBE



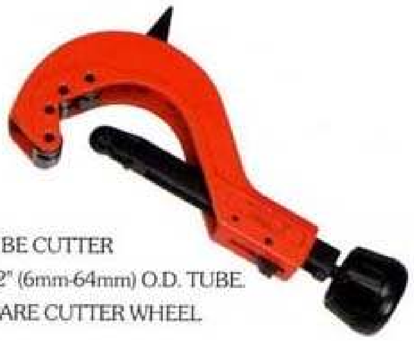
50944

RATCHETING TUBE CUTTER
FOR 1/4"-7/8" (6mm-23mm) O.D. TUBE
INCLUDE A SPARE CUTTER WHEEL



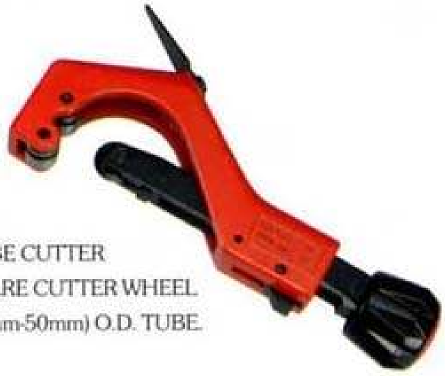
50945

RATCHETING TUBE CUTTER
FOR 5/16"-1 1/8" (8mm-29mm) O.D. TUBE
INCLUDE A SPARE CUTTER WHEEL



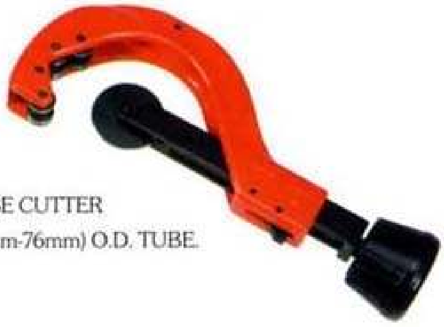
50946

ZIPACTION TUBE CUTTER
FOR 1/4"- 2 1/2" (6mm-64mm) O.D. TUBE
INCLUDE A SPARE CUTTER WHEEL



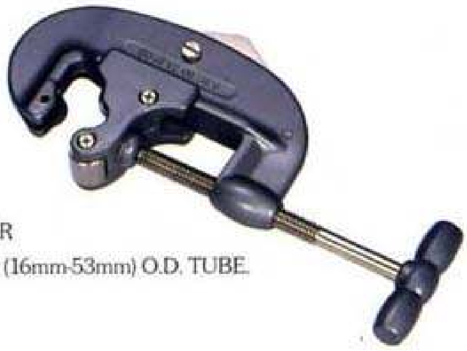
50947

ZIPACTION TUBE CUTTER
INCLUDE A SPARE CUTTER WHEEL
FOR 1/4"- 2" (6mm-50mm) O.D. TUBE.



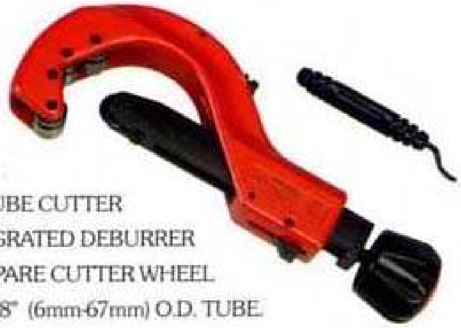
50948

ZIPACTION TUBE CUTTER
FOR 1/4"- 3" (6mm-76mm) O.D. TUBE.



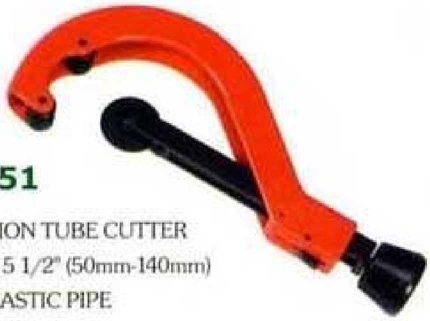
50949

TUBING CUTTER
FOR 5/8"- 2 1/8" (16mm-53mm) O.D. TUBE.



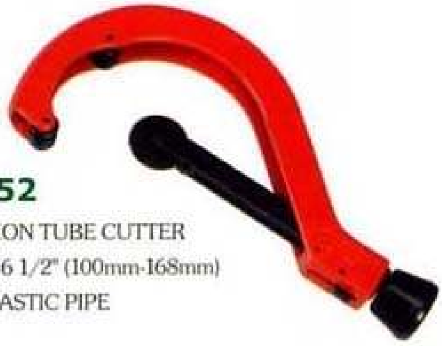
50950

ZIPACTION TUBE CUTTER
WITH A INTEGRATED DEBURRER
INCLUDE A SPARE CUTTER WHEEL
FOR 1/4"- 2 5/8" (6mm-67mm) O.D. TUBE.



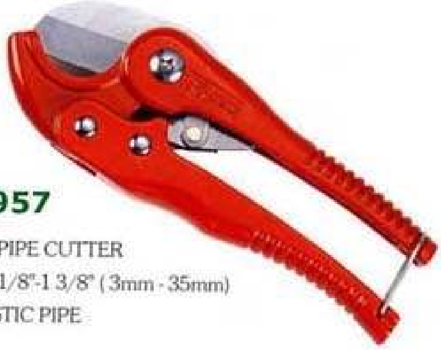
50951

ZIPACTION TUBE CUTTER
FOR 2"- 5 1/2" (50mm-140mm)
O.D. PLASTIC PIPE



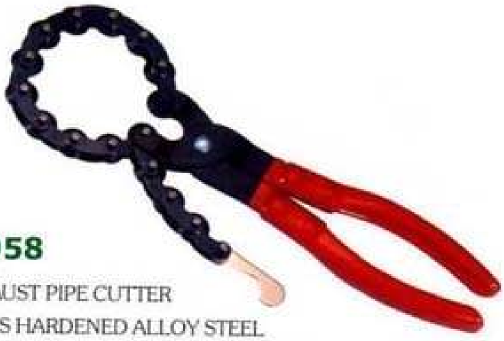
50952

ZIPACTION TUBE CUTTER
FOR 4"- 6 1/2" (100mm-168mm)
O.D. PLASTIC PIPE



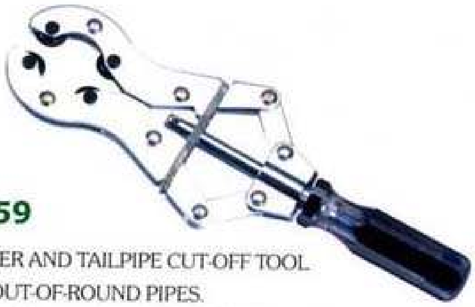
50957

PVC PIPE CUTTER
FOR 1/8"-1 3/8" (3mm - 35mm)
PLASTIC PIPE



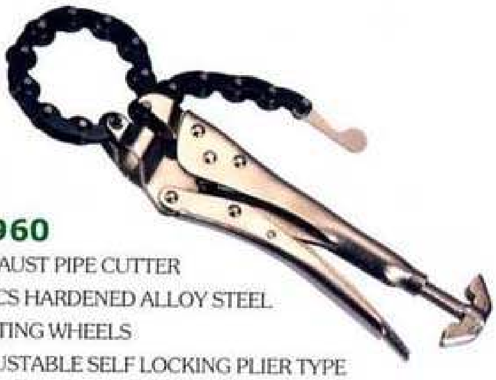
50958

EXHAUST PIPE CUTTER
15 PCS HARDENED ALLOY STEEL
CUTTER WHEELS.
PVC COVERED HANDLES.
CAPACITY : 3/4"- 3 1/4" (19mm-83mm)



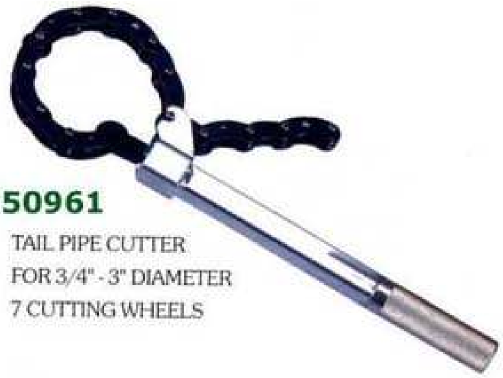
50959

MUFFLER AND TAILPIPE CUT-OFF TOOL
CUTS OUT-OF-ROUND PIPES.
CUTS FAST ONLY 1/3 REVOLUTION
CUTS ALL THE WAY AROUND THE PIPE
CAPACITY:1 3/8"- 2 1/2" (35mm-64mm)



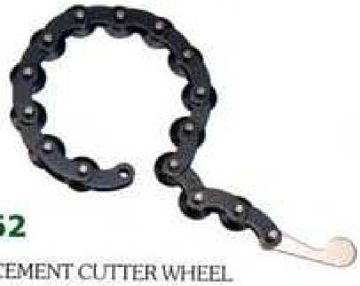
50960

EXHAUST PIPE CUTTER
15 PCS HARDENED ALLOY STEEL
CUTTING WHEELS
ADJUSTABLE SELF LOCKING PLIER TYPE
CAPACITY : 3/4"- 3 1/4"(19mm-83mm)



50961

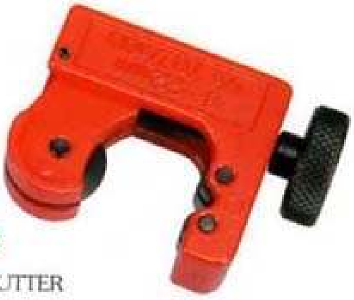
TAIL PIPE CUTTER
FOR 3/4" - 3" DIAMETER
7 CUTTING WHEELS



50962

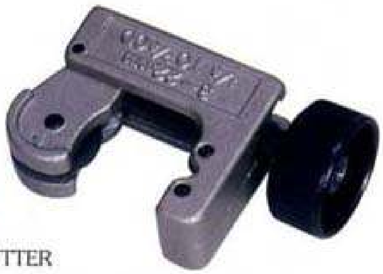
REPLACEMENT CUTTER WHEEL
CHAIN FOR PC-300 & PC-320

HOME



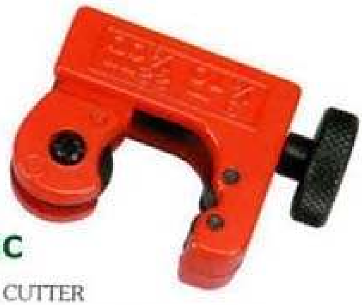
50968B

MINI TUBE CUTTER
FOR 1/8"- 7/8" (3mm-22mm) O.D. TUBE



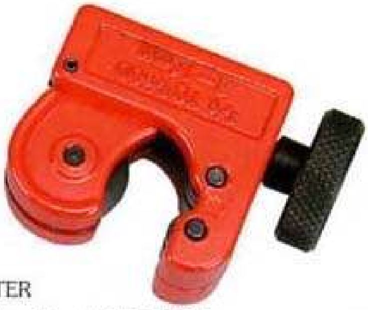
50968F

MINI TUBE CUTTER
FOR 1/8"- 7/8" (3mm-22mm) O.D. TUBE
WITH A SPARE CUTTER WHEEL



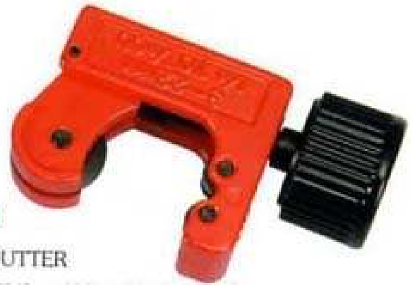
50968C

MINI TUBE CUTTER
FOR 1/8"- 7/8" (3mm-22mm) O.D. TUBE



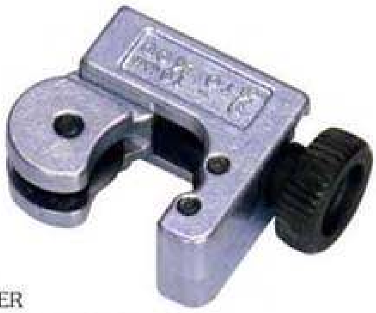
50969B

MINI TUBE CUTTER
FOR 1/8"- 5/8" (3mm-16mm) O.D. TUBE



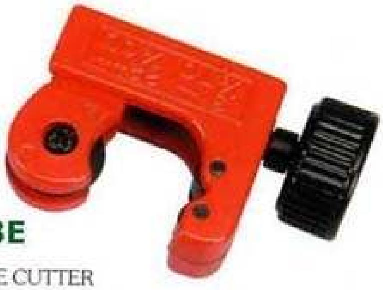
50968D

MINI TUBE CUTTER
FOR 1/8"- 7/8" (3mm-22mm) O.D. TUBE
WITH REAMER INSIDE THE KNOB



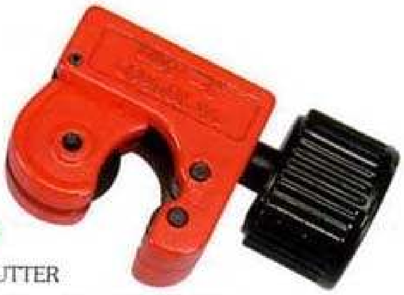
50959C

MINI TUBE CUTTER
FOR 1/8"- 5/8" (3mm-16mm) O.D. TUBE



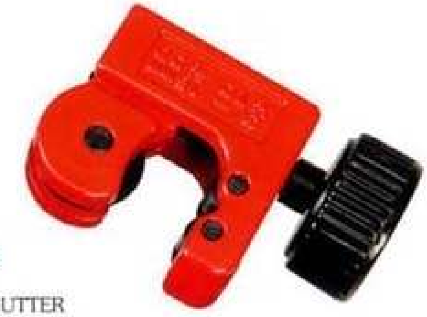
50968E

MINI TUBE CUTTER
FOR 1/8"- 7/8" (3mm-22mm) O.D. TUBE



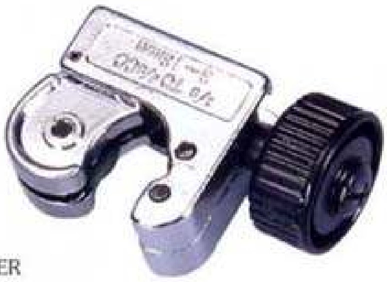
50959D

MINI TUBE CUTTER
FOR 1/8"- 5/8" (3mm-16mm) O.D. TUBE
WITH REAMER INSIDE THE KNOB



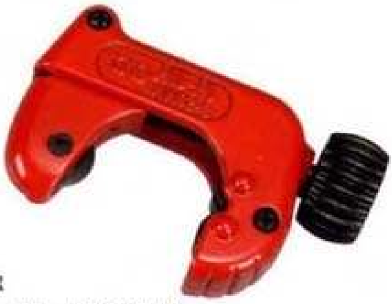
50969E

MINI TUBE CUTTER
FOR 1/8"- 5/8" (3mm-16mm) O.D. TUBE



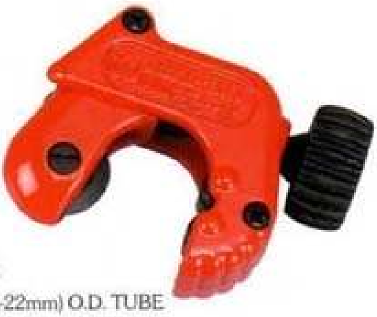
50969F

MINI TUBE CUTTER
FOR 1/8"- 5/8" (3mm-16mm) O.D. TUBE
WITH A SPARE CUTTING WHEEL



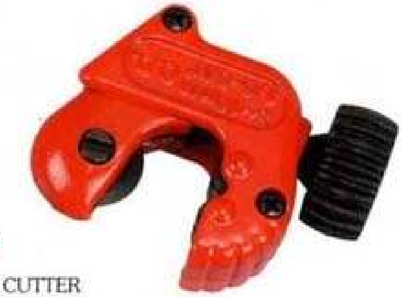
50970

MINI TUBE CUTTER
FOR 1/8"-1 1/8" (3mm-28mm) O.D. TUBE



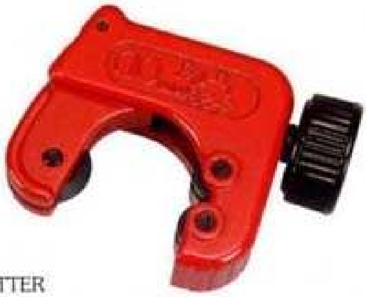
50971

MINI TUBE CUTTER
FOR 1/8"- 7/8" (3mm-22mm) O.D. TUBE



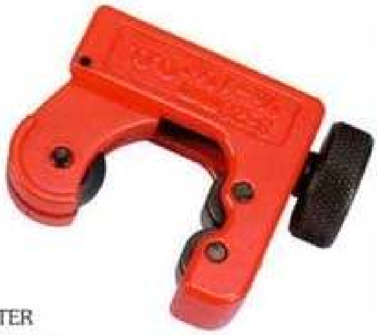
50972

MINI TUBE CUTTER
FOR 1/8"- 5/8" (3mm-16mm) O.D. TUBE



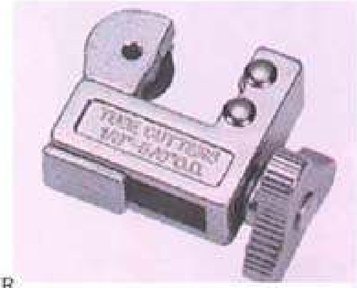
50973

MINI TUBE CUTTER
FOR 1/8"-1 1/8" (3mm-28mm) O.D. TUBE



50974

MINI TUBE CUTTER
FOR 1/8"-1 1/8" (3mm-28mm) O.D. TUBE

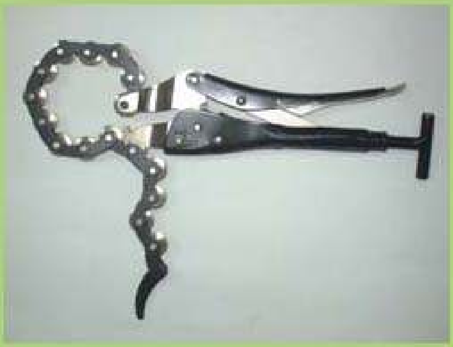


50902

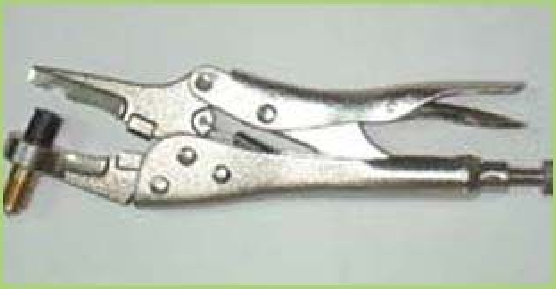
MINI TUBE CUTTER
FOR 1/8"- 5/8" (3mm-16mm) O.D. TUBE

HOME

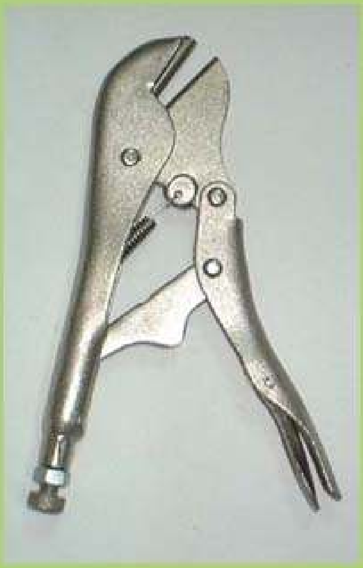
PLIERS



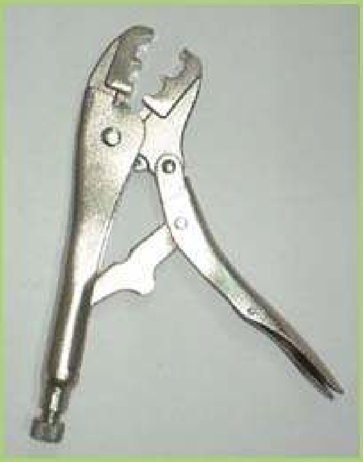
58803
Adjustable Self Locking Pliers



58804
Coolant Pliers

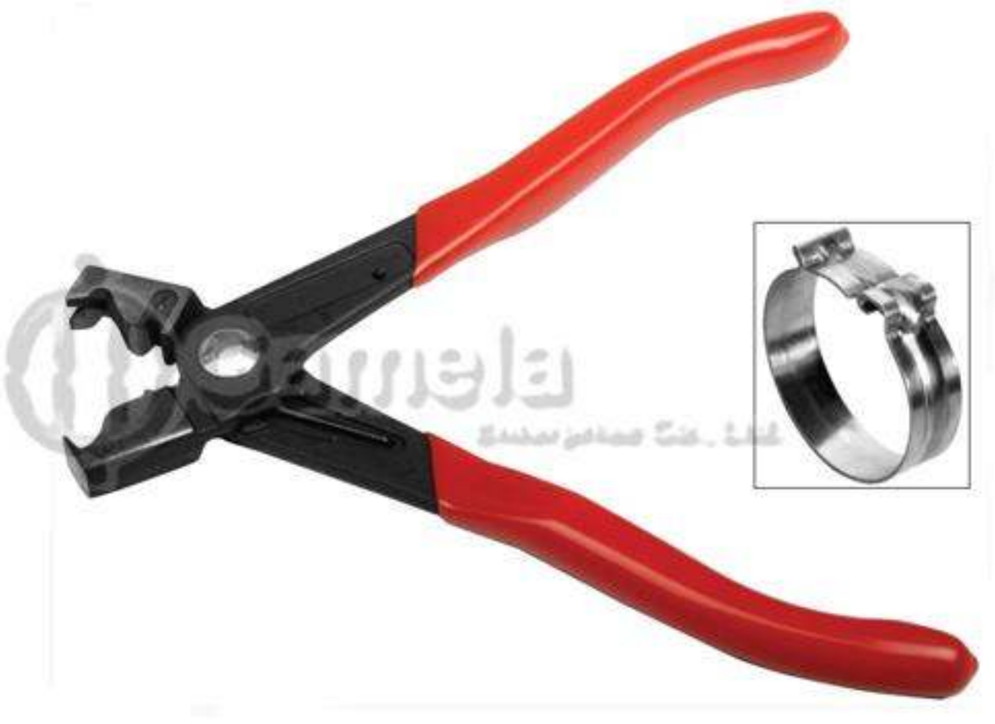


58805
Copper Tube Pliers



58806
Pliers for Fixing Refrigerant Equipment

Hose Clips Pliers (Phosphate Coated) 59564

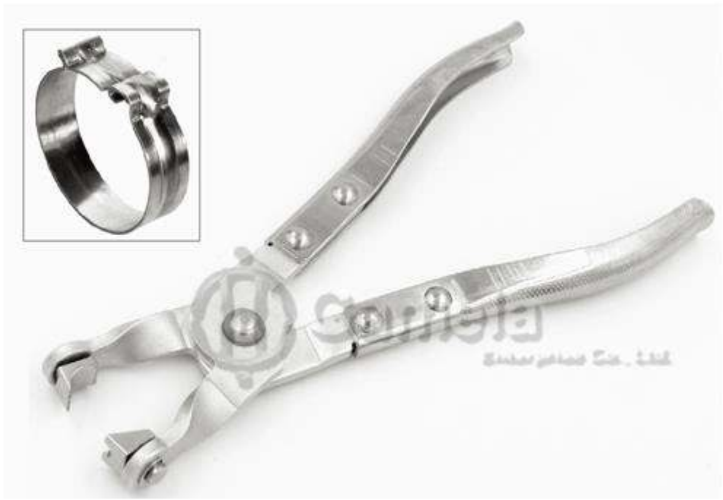


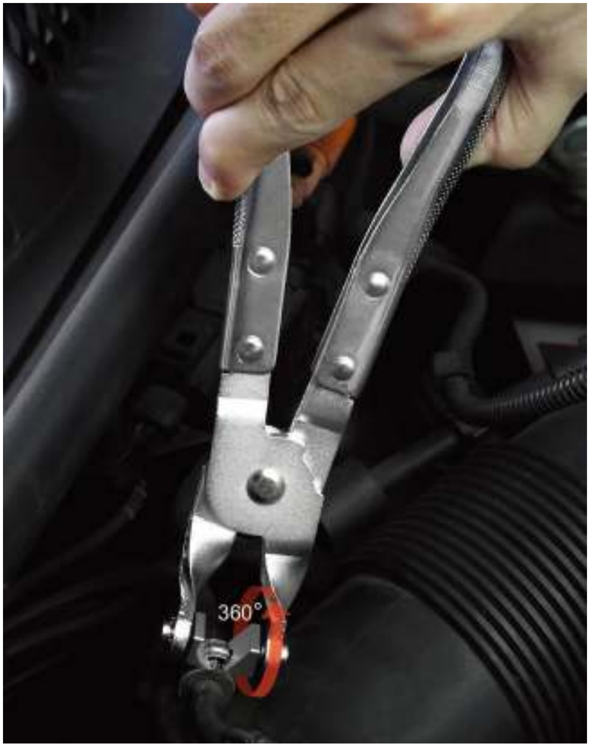
Hose Clips Pliers (Phosphate Coated) 59564

For releasing and re-fitting reusable hose clips, types CLIC and CLIC-R (Caillau/Serflex).

Application: Audi, Citroën, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW etc.

Hose Clamp Pliers (Swivel Jaws) 59565





Hose Clamp Pliers (Swivel Jaws) 59565

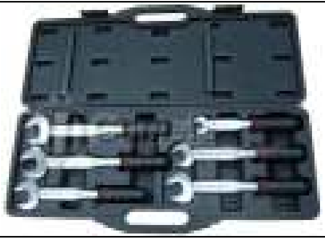
Clic collar pliers swivel heads

Length : 200 mm

- Open and close easily by turning the pliers by 180°.
- For clamping multi-use CLIC-type hose clamps.
- Swivel jaws - for use in areas with restricted access.
- Suitable for : Audi, Citroën, Fiat, Mercedes, Opel /Vauxhall, Peugeot, Renault, SMART, VW, etc.

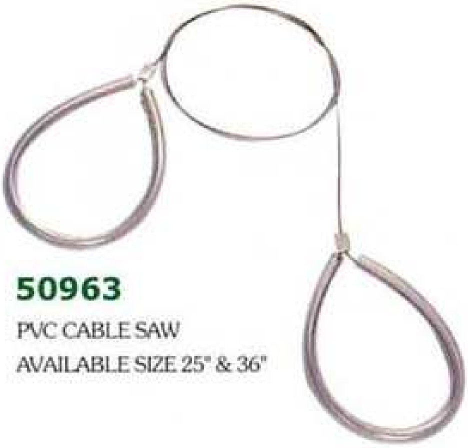
Length:200 mm

HOME

5pc Changeable Spanner Torque Wrench **` Spanner Size: 17, 22, 24, 27mm**	**7pc Changeable Spanner Torque Wrench** **Spanner Size: 17, 22, 24, 26, 27, 29mm**
59505	59506
Changeable Spanner Torque Wrench **19-110NmSpanner Size: 17, 22, 24, 26, 27, 29mm**	**8pc Changeable Spanner Torque Wrench** **Spanner Size: 17, 19, 22, 24, 26, 27, 29mm**
59525	59534
Changeable Spanner Torque Wrench 40-210Nm **Spanner Size: 13, 14, 15, 17, 19, 22, 24, 27, 30mm**	**Torque Wrench** **22mm X 42Nm**
59526	59527
	
Torque Wrench **17mm X 18Nm**	**Fixed Torque Open Wench open 59558** **17, 22, 24, 26, 27, 29m/m, fix 18, 42, 55, 55, 65, 65NM**
59528	59558

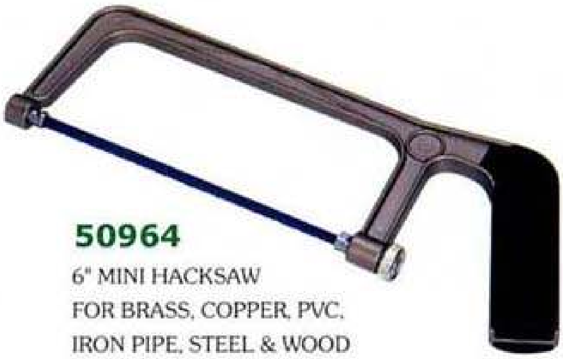
NEW

	Torque Screwdriver with window scale display range 4-12NM (30-90 INCH-POUNDS), socket 11mm & 12mm (L:50mm), torque: 04-0.6Nm, accuracy: +-4%
	59559



50963

PVC CABLE SAW
AVAILABLE SIZE 25" & 36"

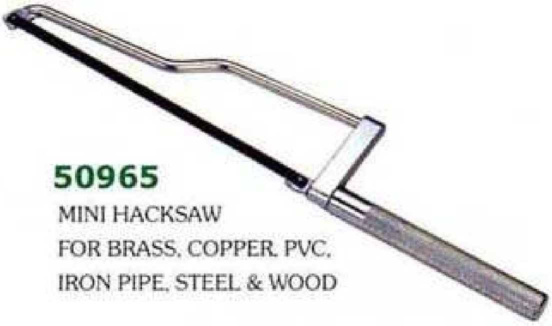


50964

6" MINI HACKSAW
FOR BRASS, COPPER, PVC,
IRON PIPE, STEEL & WOOD

50964BLD

REPLACEMENT BLADE
FOR HS -100



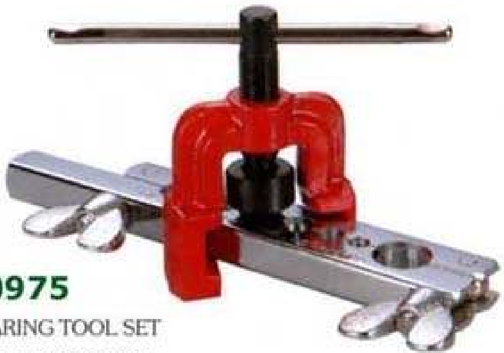
50965

MINI HACKSAW
FOR BRASS, COPPER, PVC,
IRON PIPE, STEEL & WOOD

50965BLD

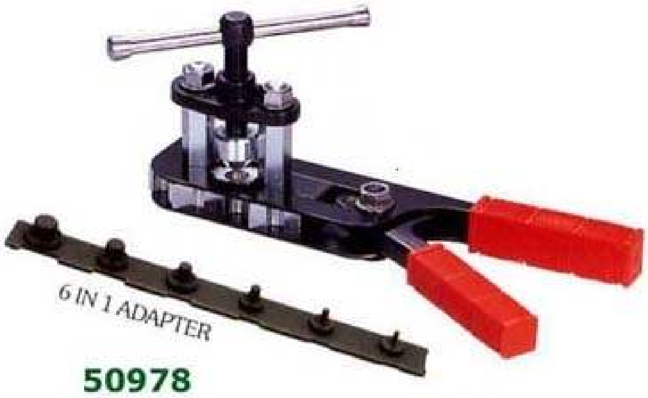
REPLACEMENT BLADE
FOR HS-110

HOME



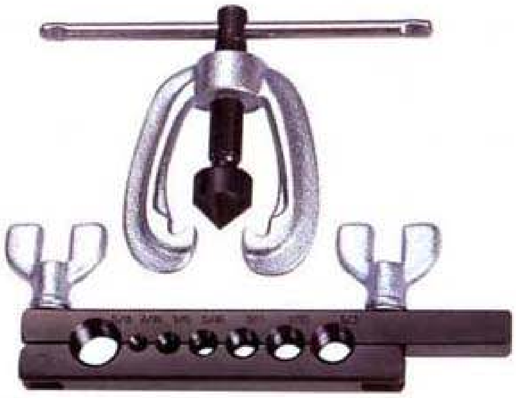
50975

FLARING TOOL SET
CAST - IRON YOKE
FOR 7 SIZES 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"



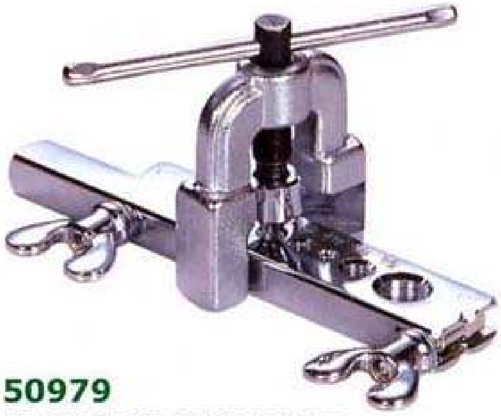
50978

DELUXE FLARING TOOL
6 IN 1 FOR SIZES 3/16", 1/4", 5/16", 3/8", 1/2" & 5/8"
6 IN 1 ADAPTER AVAILABLE



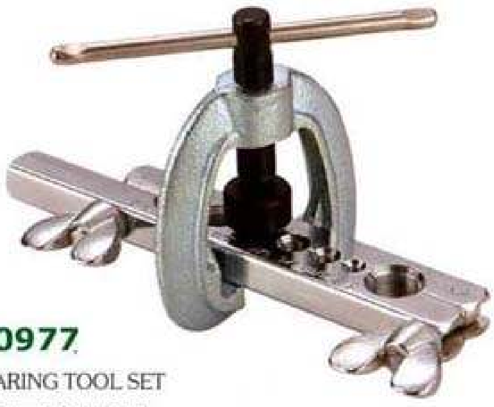
50976

FLARING TOOL SET
CAST - IRON YOKE
E - COATED SCREEN BAR
FOR 7 SIZES 3/16", 1/4", 5/16", 3/8", 7/16" ,1/2" & 5/8"



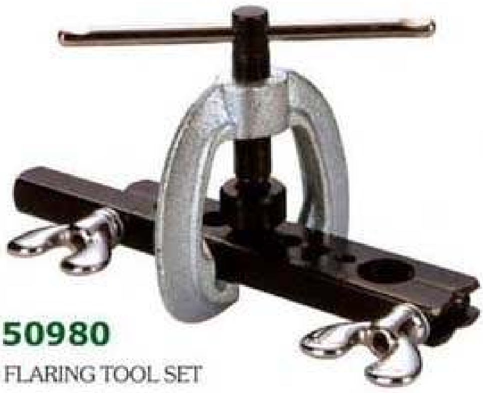
50979

HEAVY DUTY FLARING TOOL SET
FORGED YOKE, HARDENED SCREEN BAR
FOR 7 SIZES 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"



50977

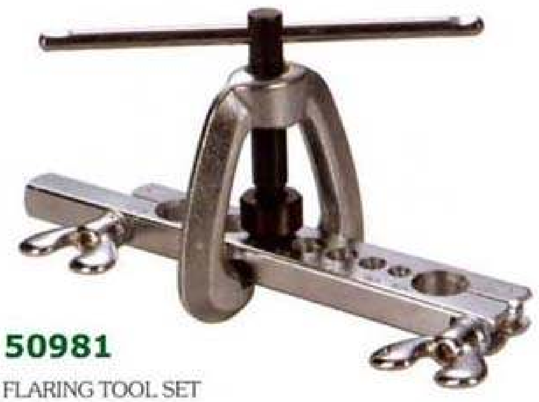
FLARING TOOL SET
CAST - IRON YOKE
FOR 7 SIZES 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"



50980

FLARING TOOL SET
CAST - IRON YOKE
E - COATED SCREEN BAR
FOR 7 SIZES 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"

HOME

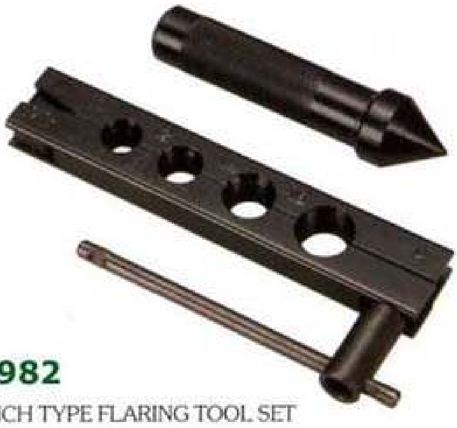


50981

FLARING TOOL SET
FORGED YOKE
FOR 8 SIZES 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" , 5/8" & 3/4"

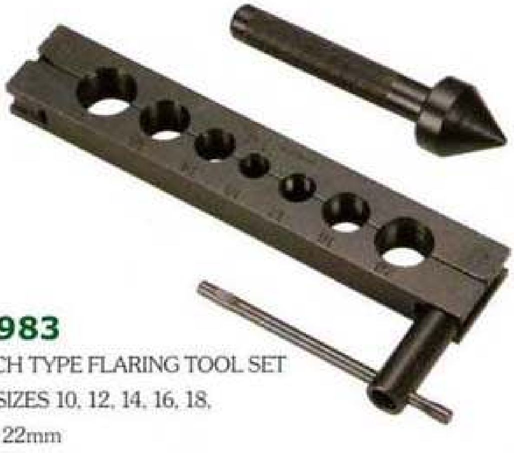
50981M

FOR METRIC: 4, 6, 8, 10, 12, 14, 16 & 18mm



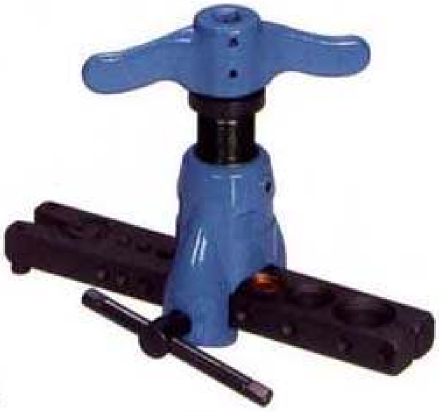
50982

PUNCH TYPE FLARING TOOL SET
FOR SIZES 10, 12, 14 & 16mm



50983

PUNCH TYPE FLARING TOOL SET
FOR SIZES 10, 12, 14, 16, 18,
20 & 22mm

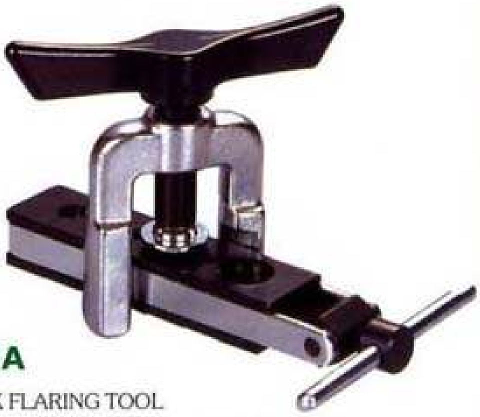


50984

ECCENTRIC CONE TYPE FLARING TOOL
FOR 8 SIZES 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4"
WITH A 3/8" BIT EASY FOR POWER
TOOL TO OPERATE

50984M

FOR METRIC: 6, 8, 10, 12, 14, 15, 16 & 18mm

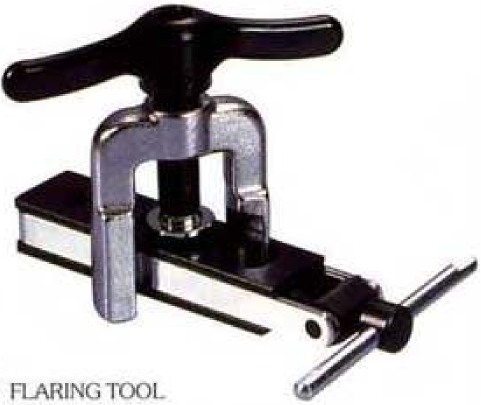


50985A

DIE-BLOCK FLARING TOOL
FOR 6 SIZE 3/16", 1/4", 5/16", 3/8", 1/2" & 5/8"

50985M

FOR METRIC : 6, 8, 10, 12, 15 & 16mm

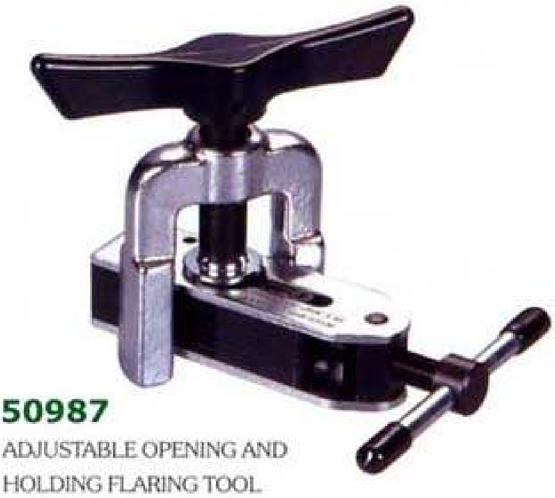


59502

DIE-BLOCK FLARING TOOL
FOR 6 SIZES 3/16", 1/4", 5/16", 3/8", 1/2" & 5/8"

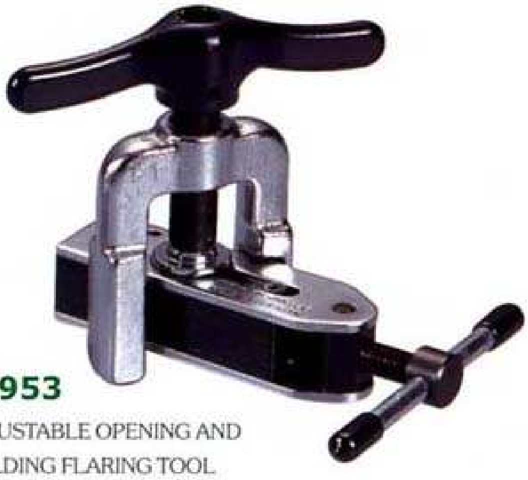
59502M

FOR METRIC : 6, 8, 10, 12, 15 & 16mm



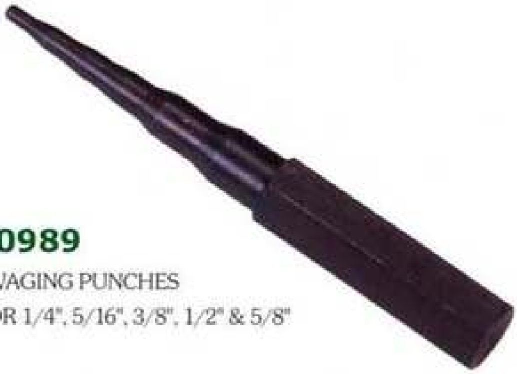
50987

ADJUSTABLE OPENING AND
HOLDING FLARING TOOL.
FOR 3/16"-5/16" (4-16mm) O.D. TUBE.



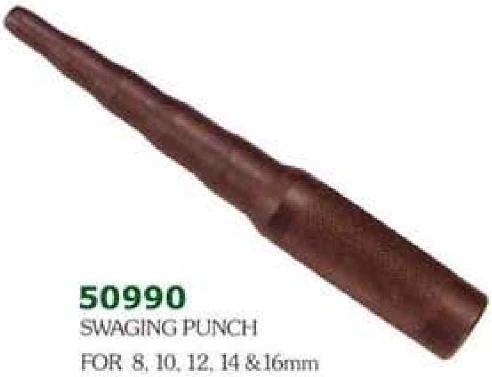
50953

ADJUSTABLE OPENING AND
HOLDING FLARING TOOL.
FOR 3/16"-5/8" (4-16mm) O.D. TUBE.



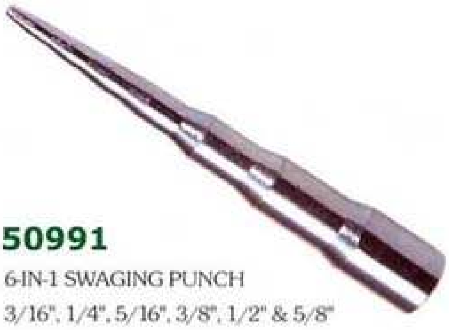
50989

SWAGING PUNCHES
FOR 1/4", 5/16", 3/8", 1/2" & 5/8"



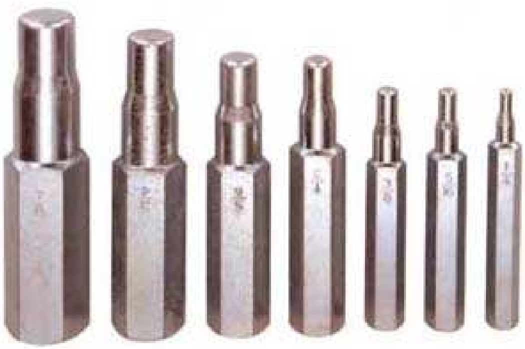
50990

SWAGING PUNCH
FOR 8, 10, 12, 14 &16mm



50991

6-IN-1 SWAGING PUNCH
3/16", 1/4", 5/16", 3/8", 1/2" & 5/8"



50992

SINGLE SWAGING PUNCH
AVAILABLE SIZES:
1/4", 5/16", 3/8", 1/2", 5/8", 3/4" & 7/8"

59507

TUBING CUTTER AND DOUBLE FLARING TOOL KIT
STEEL FORGED YOKE, 9/16" SCREEN BAR,
TC-111 TUBE CUTTER WITH 7 PCS ADAPTERS
FOR 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"
BLOW MOULD CASE PACKED.

59508

DOUBLE FLARING TOOL
FT-210 WITH 7 PCS ADAPTERS
FOR 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"
PLASTIC BOX PACKED.

59509

DOUBLE FLARING, TUBING
CUTTER & DEBURRING TOOL KIT
BLOW MOULD CASE PACKED

59510

TUBING CUTTE AND FLARING TOOL KIT
STEEL FORGED YOKE,
SCREEN BAR, 5PCS ADAPTERS AND TUBING CUTTER
CAPACITY : FOR 3/16", 1/4", 5/16", 3/8" & 1/2"

59511

DOUBLE FLARING TOOL KIT
1 SET FLARING TOOL
1 PC DEBURRING TOOL
1 PC MINI TUBING CUTTER FOR 1/8"-5/8"
7 PCS ADAPTERS:
3/16", 1/4", 5/16", 3/8", 1/2", 7/16" & 5/8"

59512A

DOUBLE FLARING TOOL SET
STEEL FORGED YOKE
FOR 3/16", 1/4", 5/16", 3/8", 1/2", 7/16" & 5/8" COPPER
PIPE FLARE

59512C

FOR 4.75, 5, 6, 8, 10mm, 1/4" & 1/2"

59513A

DOUBLE FLARING TOOL SET
STEEL FORGED YOKE
FOR 3/16", 1/4", 5/16", 3/8" & 1/2" COPPER PIPE FLARE

59513M

FOR : 4.75, 5, 6, 8 & 10mm.

59514

DOUBLE FLARING AND
CUTTING TOOL SET
STEEL FORGED YOKE
FOR 3/16", 1/4", 5/16, 3/8", 1/2",
7/16" & 5/8" COPPER PIPE FLARE
5 DOUBLE FLARING ADAPTERS
FOR 3/16", 1/4", 5/16", 3/8", & 1/2"

59501

ECCENTRIC CONE TYPE FLARING TOOL
WITH TUBE CUTTER AND
INSIDE / OUTSIDE DEBURRER
FOR : 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" OR
METRIC : 6, 8, 10, 12, 14, 15, 16 & 18mm

59501B

SET WITH INCH AND METRIC BARS.

59516

FLARING & SWAGING KIT
FORGED YOKE, SCREEN BAR X2
FOR 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" & 3/4"
WITH 6 PCS SWAGING DIES.
BLOW CASE PACKED.

59517

METRIC BUBBLE FLARE SET
FOR 4.75mm, 6mm, 8mm & 10mm O.D.
SOFT WALL TUBING.
BLOW CASE PACKED.

59518

I.S.O. FLARING TOOL
FORGED YOKE FLARING TOOL
4 ADAPTERS : 4.75, 6, 8 & 10mm
INNER REAMER AND WRENCH / GAUGE
BLOW CASE PACKED.

59518A

SAME SET, WITHOUT
INNER REAMER

59519

FLARING , SWAGING AND TUBE CUTTER SET
FORGED YOKE, SCREEN BAR X2
FOR 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" & 3/4"
WITH 6 PCS SWAGING DIES.
BLOW CASE PACKED.
WITH A TELESCOPIC TUBE CUTTER

59520

FLARING TOOL & TUBE CUTTER SET
FORGED YOKE,
HARDENED SCREEN BAR WITH A 1/8"- 1 1/8"
TELESCOPIC TUBE CUTTER
BLOW CASE PACKED.

59520B

FLARING TOOL & TUBE CUTTER SET
FORGED YOKE,
HARDENED SCREEN BAR WITH A 1/4"- 1 1/4"
TELESCOPIC TUBE CUTTER
METAL BOX PACKED.

59521

FLARING TOOL & TUBE CUTTER SET
DUCTILE IRON YOKE WITH A 1/8"- 1 1/8"
STANDARD TUBE CUTTER
BLOW CASE PACKED.

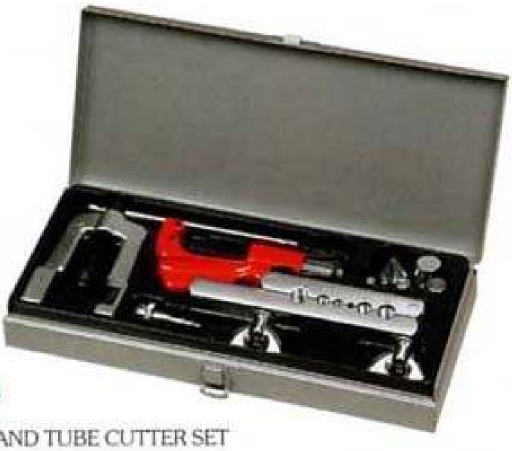
59522

FLARING TOOL, TUBE CUTTER & BENDING SPRINGS SET
E-COATED SCREEN BAR WITH A 1/8"-1 1/8"
STANDARD TUBE CUTTER.
4 BENDING SPRING 3/8", 7/16", 1/2" & 5/8"
(OR METRIC 10, 12, 14 & 16mm)

59523

SWAGING AND TUBE CUTTER SET
FORGED YOKE, 2 SCREEN BARS
CONTENS 6 PCS SWAGING
DIES & A 1/4"-1 1/2" TELESCOPIC TUBE CUTTER
BARS FOR SIZES 1/8", 3/16", 1/4",
5/16",3/8",7/16",1/2",5/8" & 3/4"
METAL BOX PACKED.

HOME



59524

SWAGING AND TUBE CUTTER SET
FORGED YOKE, 2 SCREEN BARS,
6 PCS SWAGING DIES & A 1/8"-1 1/4" TELESCOPIC TUBE
CUTTER BARS FOR SIZES 1/8", 3/16",1/4",
5/16",3/8",7/16",1/2", 5/8" & 3/4"
METAL BOX PACKED.

TT50901
DEBURRING TOOL
PLASTIC BODY
BLADE REPLACEABLE

TT50902
TT50902P

TT50902
INSIDE/OUTSIDE DEBURRING TOOL
METAL BODY, FOR 1/8" - 1 5/8"O.D

TT50902P
INSIDE/OUTSIDE DEBURRING TOOL
PLASTIC BODY, FOR 3/16" - 1 1/2"O.D

TT50903
PEN-TYPE DEBURRING TOOL
WITH POCKET CLIP

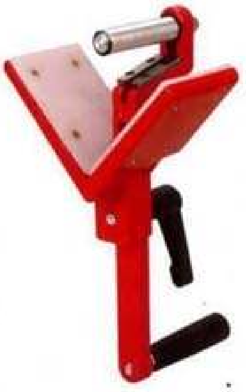
TT50904
DEBURRING TOOL
SUITS FOR TBUING CUTTER
TC-150, TC-200, TC-201, TC-220
AS REPLACEMENT.

TT50905
PEN-TYPE DEBURRING TOOL
WITH POCKET CLIP.
BLADE REPLACEABLE

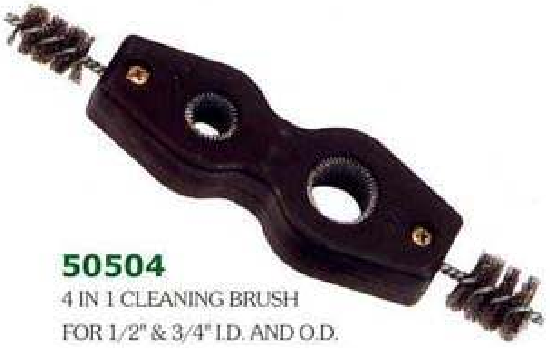
TT50906
PEN-TYPE DEBURRING TOOL
WITH POCKET CLIP.
BLADE REPLACEABLE WITH A SCRAPER

TT50907
PEN-TYPE DEBURRING TOOL
WITH POCKET CLIP
BLADE REPLACEABLE WITH A SPARE BLADE

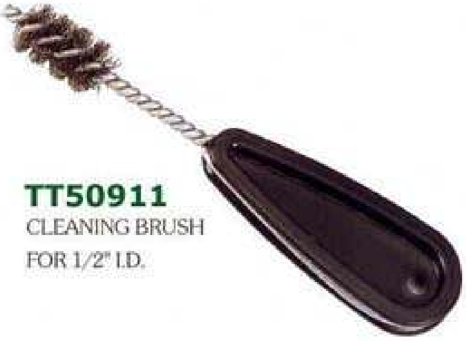
TT50908
PEN-TYPE DEBURRING TOOL
WITH POCKET CLIP
PLASTIC BODY
BLADE REPLACEABLE



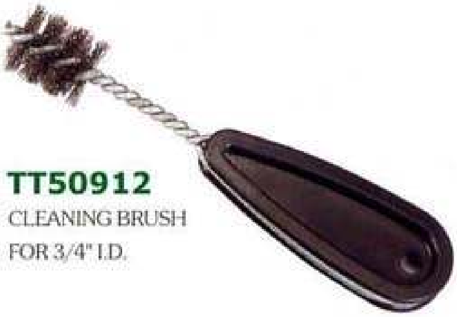
TT50909
CHAMFERING TOOL
FOR 25-168MM
WORKING ANGLE 15°



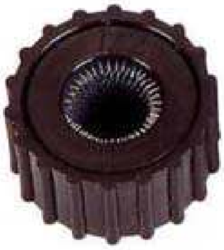
50504
4 IN 1 CLEANING BRUSH
FOR 1/2" & 3/4" I.D. AND O.D.



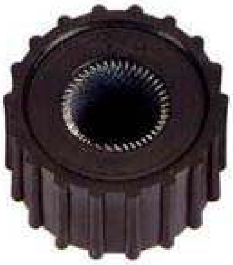
TT50911
CLEANING BRUSH
FOR 1/2" I.D.



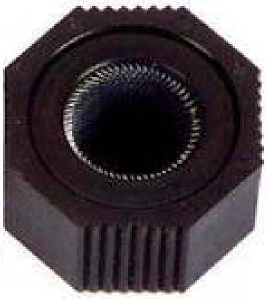
TT50912
CLEANING BRUSH
FOR 3/4" I.D.



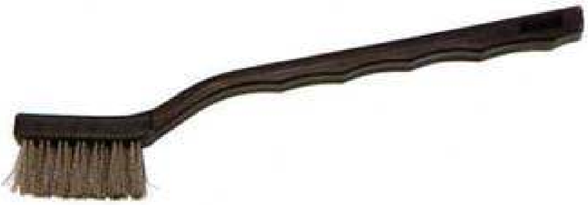
TT50913
CLEANING BRUSH
FOR 1/2" O.D.



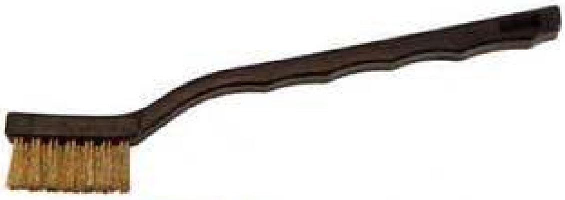
TT50914
CLEANING BRUSH
FOR 3/4" O.D.



TT50915
CLEANING BRUSH
FOR 1" O.D.



TT50916A
UTILITY BRUSHES, STAINLESS



TT50916B
UTILITY BRUSHES, BRASS

TT50917
TWO-HAND BENDER
SIZES: 6mm(1/4"), 8mm(5/16"), 10mm(3/8"),
12mm (1/2"), 14mm, 15mm & 16mm(5/8")

TT50918
BENDING SPRING
AVAILABLE SIZES: 1/4", 5/16", 3/8", 1/2" & 5/8"

TT50919A
4PC/SET BENDING SPRING
1/4", 3/8", 1/2", 5/8"

TT50920A
90° 3 IN 1 TUBING BENDER
FOR 1/4", 5/16", 3/8"

TT50920M
90° 3 IN 1 TUBE BENDER
METRIC FOR 6, 8 & 10mm

TT50903A
180° 3 IN 1 TUBING BENDER
WITH STEEL LINK. FOR 1/4", 5/16", 3/8"

TT50903M
180° 3 IN 1 TUBING BENDER
WITH STEEL LINK. METRIC FOR 6, 8 & 10mm

TT50922
HANDY BENDER
FOR 1/8" (3mm), 3/16" (4mm) & 1/4" (6mm)

TT50923
HANDY BENDER
FOR 1/2"

TT50924
HANDY BENDER
FOR 1/4"

TT50925
BREAKLINE BENDING PLIERS
FOR 3/16"

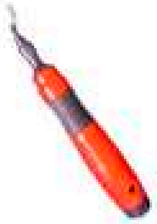
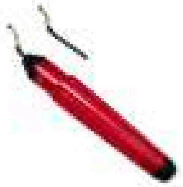
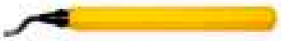
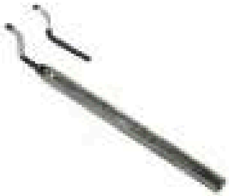
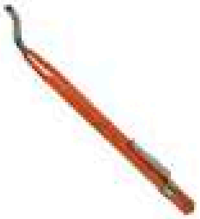
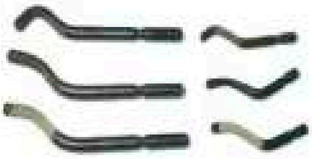
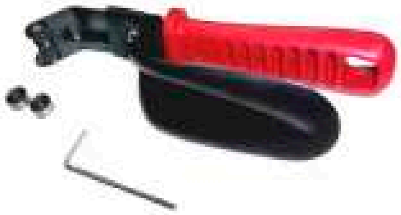
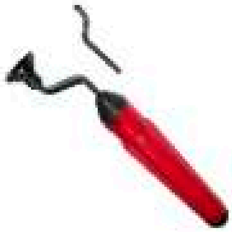
TT50926
BREAKLINE BENDING PLIERS
FOR 3/16" & 1/4"

TT50927
HEAVY DUTY TUBING BENDER
FOR 3/16", 1/4", 5/16" & 3/8"
COPPER & STEEL TUBING
EASE IN ADAPTING TOOL TO TUBING SIZE.

TT50928
HEAVY DUTY TUBE BENDER
FOR 12, 15 & 22mm COPPER TUBE WITH ALUMINUM GUIDE

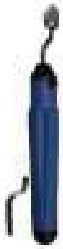
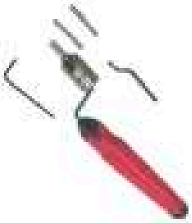
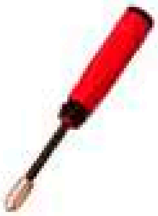
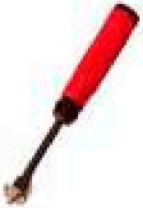
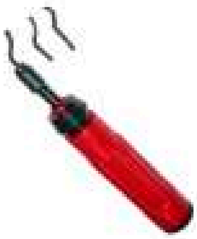
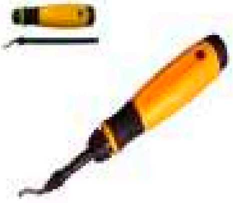
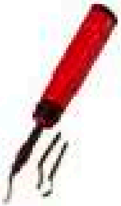
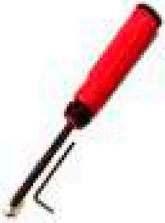
HOME

Deburring Tool

TT50929 Deburring Tool		TT50930 Deburring Tool	
*Plastic holder,easy change blade & storage blade design. *With HSS blade(d=3.1mm/863-A),HRc 62.		*Plastic holder,easy change blade & storage blade design. *With 2pc HSS blade(d=3.0mm/863-A),HRc 62.	
TT50931 Deburring Tool		TT50932 Deburring Tool	
*Aluminum hex-holder,quick-change blade-head design. *With 1pc HSS blade (d=3.1mm/863-E100),HRc 62. *Cuts pipe, tubing, conduit and PVC. *Swivel head for easier cuts. *Quick release button for effortless swapping of blades. *Lightweight aluminum handle.		*Steel handle,screw fixed blade. *W/2pc HSS blade (d=3.0mm/863-A),HRc 62.	
TT50933 Deburring Tool		TT50934 Deburring Tool	
*Aluminum hex-handle,w/pocket clip. *With fixed-1pc HSS blade (d=3.0mm/863-A),HRc 62.		*HSS blade,hardened HRc63-65,black finished,polish edge.	
TT50935 Deburring Tool		TT50936 Deburring Tool	
*Deburrs sheets with single or double straight edges up to 0.56" (14 mm) thick. *Holder can take two blades. *Handguard attached for worker safety.		*External (HSS blade D = 19mm) *Burr (HSS blade d=3.1mm)	

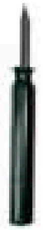
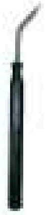
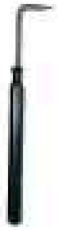
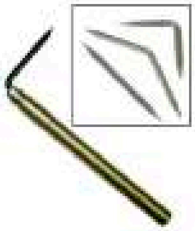
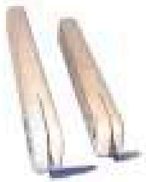
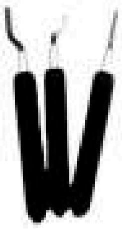
HOME

Deburring Tool

TT50937 Deburring Tool		TT50938 Deburring Tool	
*Plastic holder: 1pc:HSS D=10.4mm single-flute rotary countersink. 1pc:HSS burr(d=3.0mm/863-A),HRc 62. *Easy change & storage blade.		*Plastic holder: 1pc:HSS D=16mm single-flute rotary countersink. 1pc:HSS burr,3pc-pin guide:3/4/5mm,1pc-hexkey. *Easy change & storage blade.	
TT50939 Deburring Tool		TT50940 Deburring Tool	
*1-fluteH.S.S 12mm countersink head with screw joining extensible rod.		*2-flute H.S.S countersink,plastic holder. *Countersink head with screw joining extensible rod.	
TT50941 Deburring Tool		TT50942 Deburring Tool	
*W/ 3pc HSS Blade , d = O2.35mm *Plastic holder,w/3-type blade. *Extensible rod,easy change & storage blade design.		*W/ 3pc HSS BLADE, HRc 62,d = O3.1mm. *Extensible rod,easy change & storage blade design. *Double-color handle.	
TT50943 Deburring Tool		TT50944 Deburring Tool	
*W/ 3pc– HSS Blade , d = O3.1mm *Plastic holder,w/3-type blade. *Extensible rod,easy change & storage blade design.		*H.S.S blade,w/cutting corner , plastic holder. *Blade with screw joining extensible rod.	

HOME

Deburring Tool

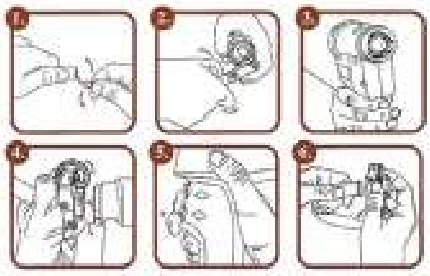
TT50945 Deburring Tool		TT50946 Deburring Tool	
*Straight. *Alloy steel blade,hardened HRc 60. *Aluminum holder.		*Bended 135 degree. *Alloy steel blade,hardened HRc 60. *Aluminum holder.	
TT50947 Deburring Tool		TT50948 Deburring Tool	
*Bended 90-degree. *Alloy steel blade,hardened HRc 60. *Aluminum holder.		*3-in-1:straight/bended 135/bended 90,double-end blade *Alloy steel blade,hardened HRc 60. *Aluminum holder,w/adjust vise.	
TT50949 Deburring Tool		TT50950 Deburring Tool	
*Blade:30mm SK5,HRc56 *Wooden handle		*Includes: cleaning, finishing and countersinking Aluminium body and soft-PVC handle Mini-bore Deburring blade Rotodrive countersink 0-3mm Tri-blade scraper.	

HOME

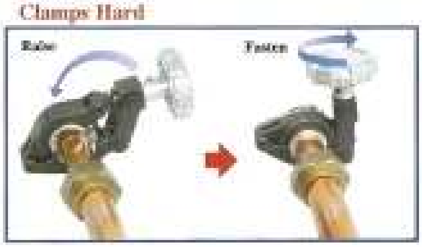
59543 Electric Cordless Flaring Tool

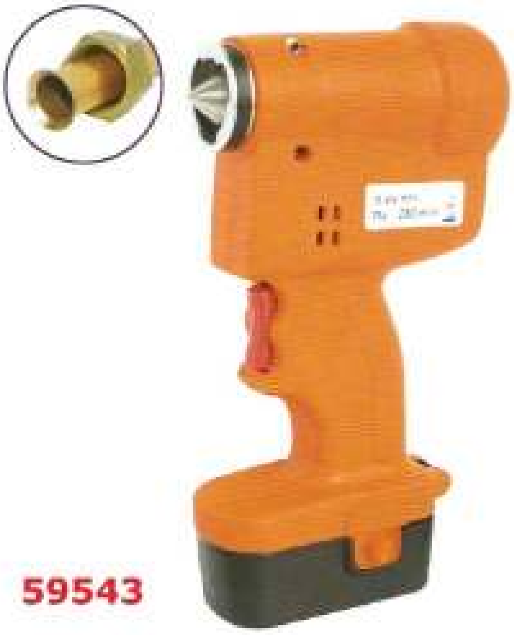
Specifications

Applicable Tube: copper, titanium and aluminum tubing.
Applicable Tube Size: 1/4”, 3/8”, 1/2”, 3/4”
Flare Type: for refrigerant R-410A
Dimensions: 122x67.5x274 with battery



Clamps Hard


Raise
Fasten



59543

SIX EASY STEPS:

1. deburr inside of tubings.
2. choose flare clip according to fasten the tubings.
3. press ‘ → ’switch to the end.
4. connect flare clip with flaring tool.
5. press ‘ ← ’until flare work complete. Press ‘ → ’to the end.
6. take off flare clip from flaring tool and separate flare clip with tubings.

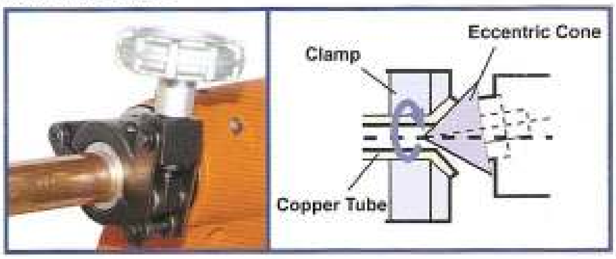
Introduction

The 59543 cordless eccentric cone flaring tool is our new high capability product. Cordless, battery power. This product can be used for 1/4”~3/4” (6mm~19mm) tubing. Special eccentric cone structure make smooth and uniform sizes 45 degree flares.

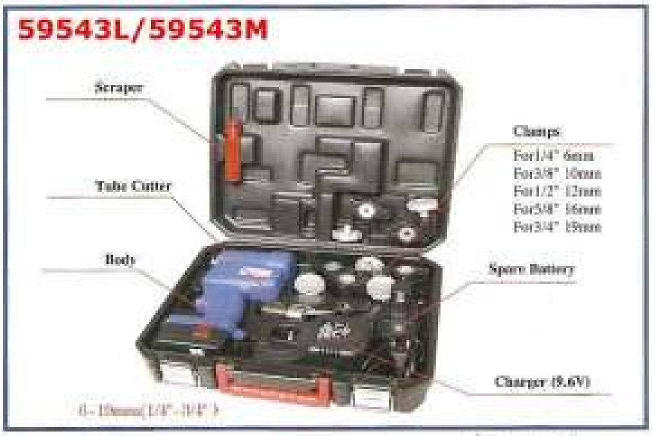
Eccentric Cone

The eccentric cone moves forward with a rotary motion, to gradually push and expand the inner diameter of the copper tube. The forward movement of the cone is then stopped by the clutch, which activates at a predetermined pressure. The flared surface of the copper tube is given a clean finish by the cone’s rotary motion.

Eccentric Cone

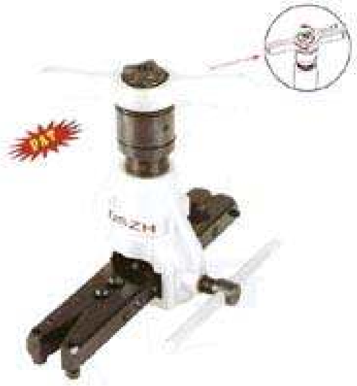

Eccentric Cone
Clamp
Copper Tube

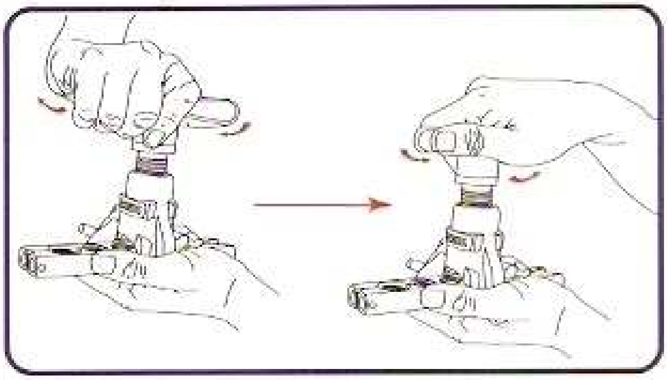
Standard Accessories


59543L/59543M
Scraper
Tube Cutter
Body
Clamps
For1/4" 6mm
For3/8" 10mm
For1/2" 12mm
For5/8" 16mm
For3/4" 19mm
Spare Battery
Charger (9.6V)
6~19mm(1/4"~3/4")

Item No.	Clamps	Item No.	Clamps
59543L-01	For inch：1/4”	**59543M-01**	For metric：6mm
59543L-02	For inch：5/16”	**59543M-02**	For metric：8mm
59543L-03	For inch：3/8”	**59543M-03**	For metric：10mm
59543L-04	For inch：1/2”	**59543M-04**	For metric：12mm
59543L-05	For inch：5/8”	**59543M-05**	For metric：16mm
59543L-06	For inch：3/4”	**59543M-06**	For metric：19mm

59544 Ratchet Eccentric Cone Type Flaring Tool



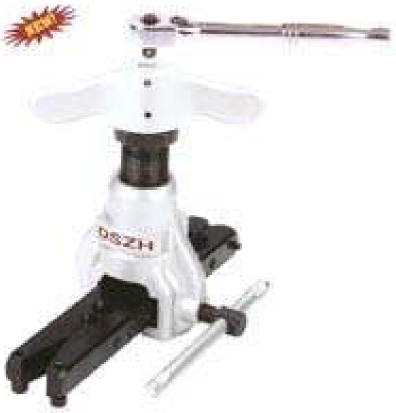


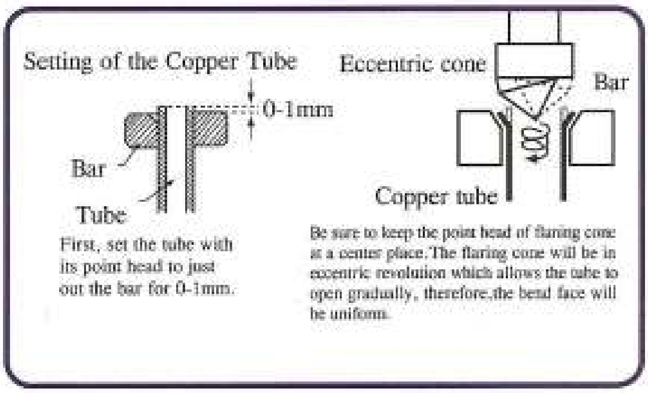
★ this precision tool provides smooth,uniform flares with minimum effort.

★ the new ratcheting feed screw handle turns easily and requires less motion and effort than a standard handle, hand need not leave the handle to complete the flare work.more convenient to operate.

★ hardened steel flaring cone,eccentrically mounted in needle bearings,produces rolling action for even metal flow,giving uniform flare walls without galling.

59545 45d Eccentric Cone Type Flaring Tools With A Ratchet Wrenches





First, set the tube with its point head to just out the bar for 0-1mm.

Be sure to keep the point head of flaring cone at a center place.The flaring cone will be in eccentric revolution which allows the tube to open gradually, therefore,the bend face will be uniform.

- ★ Special design for R410A systems
- ★ With a professional grade 3/8”sq. driver ratchet. It’s easy to use and require minimal effort.
- ★ The special cone eccentric revolution will be allows the internal opening gradually and form 45° accurate and regular flare without preventing tube slippage downward. Therefore, the flare face will be smooth, uniform without scratching.
- ★ Eccentric cone will be rebound by itself after the work is finished, make the idle top head in revolution again for 1-2 rounds and have the flare face in friction to make it prettier.

HOME

59549 Cordless Expander Tool

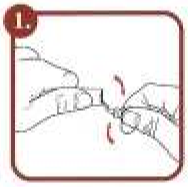
Introduction

The 59549L/59549M are high-tech products specially designed flaring tools for HVACR field use. With high capacity charging batteries, they can flare different sizes of brass, aluminum, PVC tubings. Features of auto alarm, auto retract function etc. This new flaring tools can provide convenient, prompt, easy operation service for your work.

Features

*High capacity provide driving power.
*Adjustable inside punch for different depth & sizes.
*Auto retract expander heads with alarm functions.
*Different sizes of expander heads available.
*Easy operation, used for 10MM~42MM. Diameter tubing.

1.



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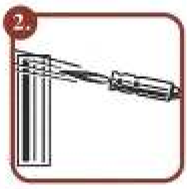
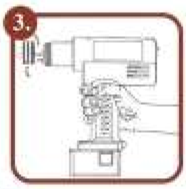
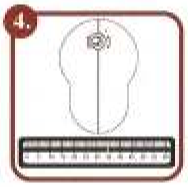


3.



4.



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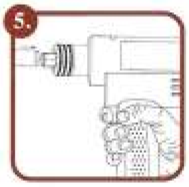
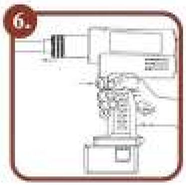


6.



Cordless Expander Tool Operation Guide:

1. Deburr inside of tubings.
2. Anneal tubings if necessary (for hard or thick wall tubings).
3. Screw expander head on expander tool.
4. Adjust the length of expander tool punch (rotate clockwise/anti-clockwise to reduce/increase the length)
5. Place the end of tubings on expander head.
6. Press and hold switch until tubing had been expanded. Work complete.

Expander Heads

Spare Expander Heads

GAMELA NO.	**Inch**	GAMELA NO.	**Metric**
59549L-01	3/8″	59549M-01	10mm
59549L-02	1/2″	59549M-02	12mm
59549L-03	5/8″	59549M-03	14mm
59549L-04	3/4″	59549M-04	16mm
59549L-05	7/8″	59549M-05	18mm
59549L-06	1″	59549M-06	22mm
59549L-07	1-1/8″	59549M-07	28mm
59549L-08	1-1/4″	59549M-08	32mm
59549L-09	1-3/8″	59549M-09	35mm(1-3/8″)
59549L-10	1-1/2″	59549M-10	38mm
59549L-11	1-5/8″	59549M-11	42mm(1-5/8″)

HOME

674
CO2
PPM
25.1
48
%
MUTE

CO2 Monitor

3 IN 1 CO2 Monitor

Meas Range：0~3000 ppm
Resolution：1 ppm at 0~1000ppm; 5 ppm at 1001~2000ppm; 10 ppm at 2001~3000ppm
Accuracy：Under 25℃
Display：Green

With Temperature & RH, Connect to PC with data log function
VDC from external AC/DC adapter which is included in package.