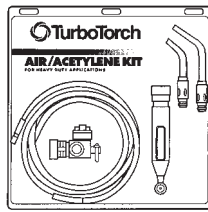


## SERVICE TOOLS



### Turbo Torch Air Acetylene Kit

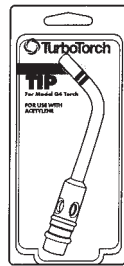
All kits have pressure regulator, handle, and hose



No.	Mfg.	Also Includes	Each
14312	X-5	A-5 Burner Tip (14371)	\$477.82

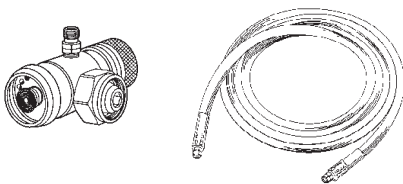
### Turbo Torch Air Acetylene Burner Tips

Use with air acetylene. Have a quick disconnect fitting that fits the G-4 handle



No.	Tip No.	Silver Soldering	Soft Soldering	Each
14370	A-3	1/8" - 1/2"	1/4" - 1"	\$122.14
14371	A-5	1/4" - 3/4"	3/4" - 1-1/2"	\$135.32
14372	A-8	1/2" - 1"	1" - 2"	\$149.26
14373	A-11	7/8" - 1-5/8"	1-1/2" - 3"	\$156.10
14374	A-14	1" - 2"	2" - 3-1/2"	\$191.24
14375	A-32	1-1/2" - 4"	4" - 6"	\$275.00

### Turbo Torch Replacement Parts



No.	Mfg.	Description	Each
14313	AR-MC	MC Regulator	\$171.68
14364	AH-12	Acetylene 12 ft. hose	\$71.86

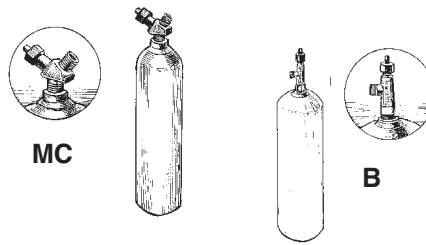
### HAND HELD TORCH

Using the STK-9 torch kit which includes a regulator and ST-3 tip is able to soft solder to 2-1/2" and silver solder to 1-3/8" using Mapp gas. Torch can be used with Mapp or Propane Gas.



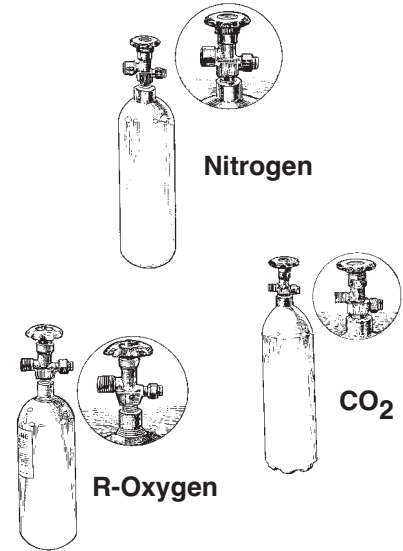
No.	Mfg.	Description	Each
14409	STK-9	Torch Kit	\$141.86
14391	ST-1	Tip Silver Solder to 1/2"	\$87.74
LNXL10		HAND TORCH	\$136.26
LNXL192		SELF IGNITING HAND TORCH	\$174.24

### Gas Cylinders



MC

B



Nitrogen

CO2

R-Oxygen

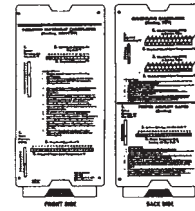
No.	Size	Gas	Tank	Each
01788	10#	CO 2	Tank	\$254.00
01782	10#	CO 2	Fill	\$36.04
01718	15#	CO 2	Tank	\$226.94
01779	15#	CO 2	Fill	\$50.60
01719	20#	CO 2	Tank	\$267.20
01780	20#	CO 2	Fill	\$43.20
01785	MC	Acetylene	Tank	\$205.96
01781	MC	Acetylene	Fill	\$50.74
01787	B	Acetylene	Tank	\$340.76
01783	B	Acetylene	Fill	\$70.18
12727	R	Oxygen	Tank	\$316.24
12726	R	Oxygen	Fill	\$22.26
01789	R	Nitrogen	Tank	\$316.24
01784	R	Nitrogen	Fill	\$22.22
09106	40cf	Nitrogen	Tank	\$426.68
01792	40cf	Nitrogen	Fill	\$23.62

### Disposable Fuel Tanks



No.	Description	Each
14394	Mapp Gas	\$25.66

### Superheat Calculator

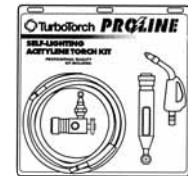


The refrigerant charge for a split system or package unit should be checked by following the instructions given in the service literature for the unit. For units that use R-22 or R-410A refrigerants, the charge can be checked by using a superheat or subcooling method and a related aid called a Required Superheat/Subcooling Calculator. The superheat method is used for checking the charge in systems equipped with fixed-orifice metering devices. The subcooling method is used for systems equipped with a thermostatic expansion valve (TXV). Complete instructions forming both methods are printed on the calculator.

No.	Description	Each
020-434	GT24-01 for R-22	\$12.68
020-517	GT58-01 for R-410A	\$12.68

### Turbo Torch Proline Self-Lighting Acetylene Torch Kit

Turbo Torch Kits include: Regulator for B tank, handle, hose, 1 tip, and instruction manual.



Capacity for soft soldering and silver soldering listed below.

No.	Mfg. No.	Tip Size	Soft Solder	Silver Solder	Each
14320	PL8ADLX-B	5/16"	1" - 2"	1/2" - 1"	\$452.04
14321	PL12ADLX-B	3/8"	2" - 4"	1" - 2"	\$508.76

### Replacement Tips for Proline Torch



No.	Mfg. No.	Tip Size	Soft Solder	Silver Solder	Each
14325	PL-5A	1/4"	3/4"-1-1/2"	1/4"-3/4"	\$183.92
14326	PL-8A	5/16"	1" - 2"	1/2" - 1"	\$202.82
14327	PL-12A	3/8"	2" - 4"	1" - 2"	\$201.10

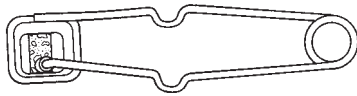
### 3/16" Tank Wrench



No.	Description	Each
01791	3/16" Tank Wrench	\$2.34



**Torch Lighter**



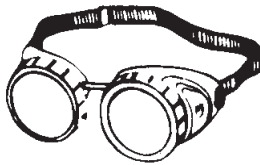
No.	Description	Each
12938	Torch Lights	\$6.38
12939	Renewable Flint (Pkg 6)	\$6.16

**3/16" Tank Wrench**



No.	Description	Each
01791	3/16" Tank Wrench	\$2.26

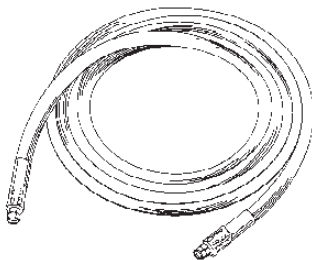
**Oxweld Goggles**



Gives protection for all welding and cutting operators.

No.	Description	Each
22863	Regular Oxweld Goggles	\$20.86

**3/16" Size "A" Hose**



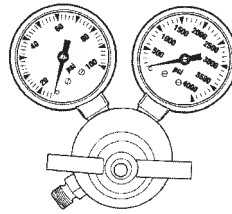
Rubber fabric reinforced 3/16" hose has type "A" left-hand thread fittings on each end. Includes: Fittings

No.	Description	Each
12671	6 ft. Hose	\$17.00
14364	12 ft. Hose	\$69.64

**Replacement Parts**

No.	Description	Each
14390	Brazing Tip to 7/8"	\$68.48
14392	Brazing Tip to 1-1/8"	\$76.72
12732	12-1/2 ft Twin Hose	\$94.58
12730	Oxygen Regulator	\$204.78
12649	B Regulator**	\$159.78
**01790	B to MC tank adapter	\$86.88

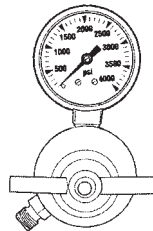
**Contents & Delivery Regulator**



Forged brass pressure regulator delivers the gas at a uniform working pressure.

No.	Tank	Each
12649	B Tank	\$159.78
12731	MC Tank	\$185.78
01786	Nitrogen Tank	\$167.14
12730	Oxygen Tank	\$204.78

**Contents Regulator**



Forged brass pressure regulator delivers the gas at a uniform working pressure.

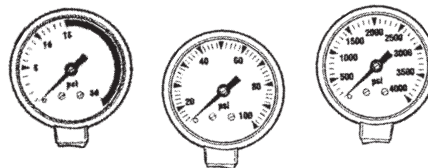
No.	Tank	Each
12662	B Tank	\$142.28
12663	MC Tank	\$138.90

**Regulator Adapter Connections**



No.	Description	Each
01790	B reg. to MC tank	\$86.88
12845	MC reg. to B tank	\$57.46

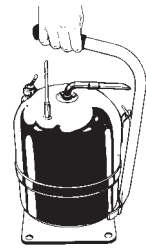
**Regulator Replacement Gauges**



No.	Gauge	Gas Type	Each
12664	Delivery	Acetylene	\$47.10
12678	Contents	Acetylene	\$47.10
12746	Delivery	Oxygen	\$46.38
12745	Contents	Oxygen	\$21.54
12679	Delivery	Nitrogen	\$40.26
12680	Contents	Nitrogen	\$40.90
12681	Replacement Snap-in Lenz		\$1.20

**Compressor Tote**

Makes light work of a heavy job.



Electro plated, strong steel construction practically indestructible.

Recommended for use with all compressors up to 5 tons. Will even handle new high efficiency compressors.

An indispensable tool for every serviceman.

No.	Description	Each
P041-6001	Compressor Tote	\$69.02

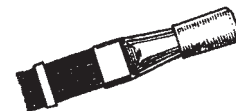
**Sealed Unit Parts**

**Fin Jack**



No.	Description	Each
18143	9 & 10 Fins / Inch	\$24.42
18144	11, 12, & 13 Fins / Inch	\$25.40
18145	14, 15, & 16 Fins / Inch	\$26.30

**Metal Fin Comb**



No.	Description	Each
796181A	Metal All Fin Comb	\$7.00

**Thermal Charge-oil Pump**



The Charge-oil pump eliminates the danger of drawing air and moisture into a refrigeration system when charging a compressor with oil. It charges without pumping the compressor down thus reducing charging time.

No.	Description	Each
61711	1702 Oil Pump	\$196.16

# TOOLS



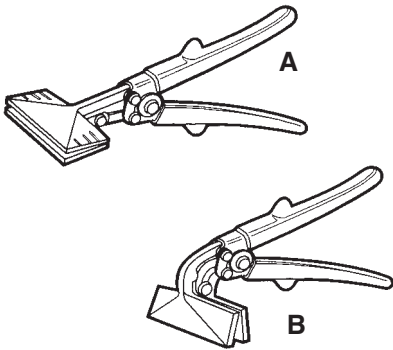
## Malco Sheet Metal Folding Tool



Tool has seams for folding 3/8" and 1/2" folds on 24 to 30 gauge mild steel. Halves are permanently welded. Finished grey baked enamel.

No.	Malco	Folding in Depth	Length	Each
09602	8	3/8" & 1/2"	8"	\$20.00
09612	12	3/8" & 1/2"	12"	\$27.26
MAL18F	18F	3/8" & 1"	18"	\$38.62
MAL24F	24F	3/8" & 1"	24"	\$51.14

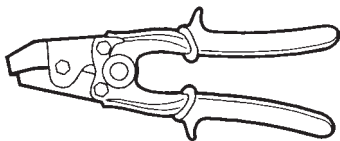
## Malco Hand Seamer



Seamer has compound leverage of bend and flatten sheet metal and make permanent and tight fitting seams. Jaws are marked with a 1/4" scale. Drop forged; zinc plated, with black pipes.

No.	Fig	Size	Jaw Width	Each
09613	A	3"	3-1/4"	\$92.66
MALS3	B	3" Offset	3-1/4"	\$103.96
MALS6	A	6"	6"	\$131.22

## Malco Hand Notcher



Fast and easy cutting. Notcher makes a clean 30 deg "V" shaped cut in sheet metal.

No.	Cutting Angle	Each
MALN1	30 deg	\$92.58

## Malco Sheet Metal Scriber



Measure, mark and scribe trim lines on sheet metal in one easy operation. Set desired trim depth on the 1/8" graduated scriber extension and tighten knob. The use of common sheet metal screw makes point replacement practical and economical.

No.	Description	Each
MALA60	Scribes 1/4" to 12-1/2"	\$29.02

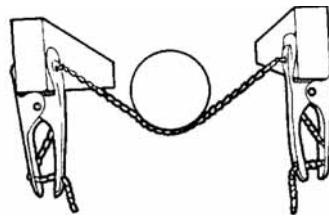
## Scratch Awl



Use to scribe lines on metal, plastic and a variety of other materials. Blades are high carbon, alloy tool steel fully polished to resist rust. Blade tapers to a fine point and may be re-sharpened many times.

No.	Description	Each
MALA2	4" Scratch Awl	\$11.86
09549	7" Scratch Awl	\$23.32

## Malco Duct Holder



2 powerful clamps with 8" handles are notched to lock chain at 1/2" intervals. Chain is 4 feet long and holds any size or shape of duct between or under joints until duct is securely fastened.

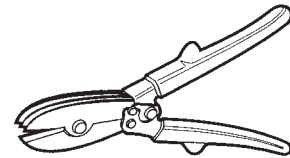
No.	Description	Each
09603	2 Clamps / 4 ft. Chain	\$58.48

## Torpedo Level



No.	Description	Each
MAL9M	Torpedo Level	\$38.74
02371	Torpedo Level	\$37.94

## Malco Hand Crimper



5-Blade Crimper. Crimps up to 20 gauge sheet metal 1-1/4" deep. For all round, square, and corrugated pipe. Compound leverage.

No.	Crimps	Long	Each
09600	1-1/4"	7"	\$52.28

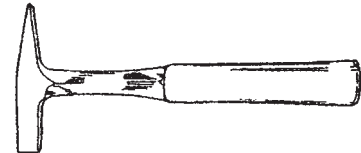
## Turbo Shear



The time-saving TURBOSHEAR Model No.TS1 inserts directly into the chuck of a standard 1200 rpm A/C or cordless drill. It's that easy to convert your power drill to a power shear!

No.	Description	Each
MALTS1	Turbo Shear	\$99.16

## Riveting Hammer



Full polished head with beveled fane and pein. Leather conforms to hand over time.

No.	Head Weight	Each
MALRH4	12 oz.	\$100.04

## Pocket Level

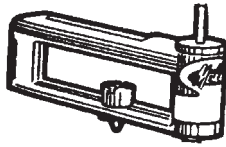


Molded plastic frame with chrome pocket clip. Multi view vial reads top, bottom, or side.

No.	Description	Each
09589	Pocket Level	\$6.84



**Malco Sheet Metal Hole Cutter**



Malco Hole Cutters adjust for making 2 to 20 inch holes in galvanized sheet metal. The large capacity model HC2 cuts a full 2 inch to 20 inch range while the more compact HC1 cuts a maximum 12 inch diameter. Both Hole Cutters install into a standard electric drill as small as 1/4" and use the same No. CB mill type cutting bit. Malco Hole Cutters store easily in a tool box and feature lightweight aluminum frames and high speed bearings at top and bottom of drill shaft to assure perfect cutting balance and long cutting life.

No.	Malco	Hole	Metal	Each
09610	HC1	2" to 12"	20 gauge	\$123.30

**Accessories**

No.	Malco	Description	Each
09611	CB	Repl. Cutter	\$25.62
09616	HC1B	Repl. Pivot Pin	\$23.20

**Angle Drive Accessory**



**Features:**

- 1:1 Gear Ratio
- Comes with own chuck
- Fits 1/4", 3/8" electric drills

Works well with HC1 and HC2 Hole Cutters. May be used to help cut take-off holes in sheet metal ductwork suspended below floor joists or for take-offs from the side of large trunk lines where reaching up and cutting at 90° is desirable.

No.	Malco	Description	Each
MALHCAD	HCAD	Angle Drive Accessory	\$75.46

**Adjustable Pliers**



Multiple slip joint pliers are ideal for use on conduit, pipe and cable connections. Tongue and groove joints hold jaws securely in selected position and take strain off bolt.

No.	Malco	Description	Each
MALMT12	MT12	12" Adjustable Pliers	\$53.46

**Wood Bit**



**Features:**

- Only 1/4" drill needed

Unique designed ground points and cutting edges drill faster, cleaner holes, using less power than standard spade type bits. Cut straight or angled holes in soft and hard woods, plus formica, plaster, chipboard, foam core material, many non-metallic building sidings and foam insulation. Resharpenable with saw file or grinder.

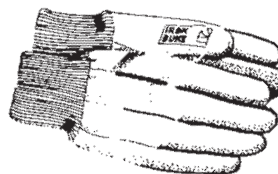
No.	Malco	Description	Each
MALWB34	WB34	3/4" Wood Spade Bit	\$9.52

**Masonry Bit**



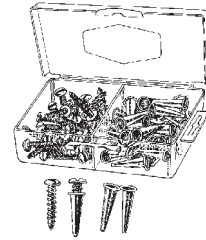
No.	Size	Description	Each
MSCMD38	3/8"	Masonry Bit	\$9.00

**Work Gloves**



No.	Description	Each
MSC701L	Brown Work Gloves	\$5.76

**Wall Anchors Kits**



Plastic self drilling anchor kit includes 50 anchors, 50 combination

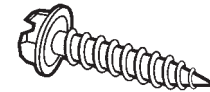
No.	Type	Size	Each
00695	Zip	3/16" x 3/4"	\$11.56
00696	Zip	1/4" x 1"	\$15.78
00697	Zip	5/16" x 1-1/2"	\$16.68

**Magnetic Chuck**



No.	Hex Shank Size	Each
23830	1/4"	\$8.82
23831	5/16"	\$5.98
23832	3/8"	\$4.44

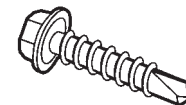
**Zip Tip Sheet Metal Screws**



1/4" Head

No.	Description	Per Tub	Each
00820	7 x 1/2"	1000	\$ 37.48
00821	7 x 1/2"	15,000	\$490.64
00812	8 x 1/2"	1000	\$ 40.98
00811	8 x 3/4"	1000	\$ 51.58
00822	8 x 3/4"	10,000	\$491.12
00818	8 x 1"	500	\$ 33.60
00819	8 x 1-1/2"	250	\$ 23.14
00817	8 x 2"	250	\$ 31.00
00816	10 x 1/2"	1000	\$ 61.22
00815	10 x 3/4"	1000	\$ 69.60

**Bit-Tip Sheet Metal Screws**



Bit-Tip® has a wide range of industry applications. Also, plywood, soft wood, composition board, drywall, insulation and laminates may be fastened to metal framing or components. The versatile Bit-Tip® screw is an excellent replacement for fastening operations now using rivets, nuts and bolts, spot welds or adhesives.

500 per tub

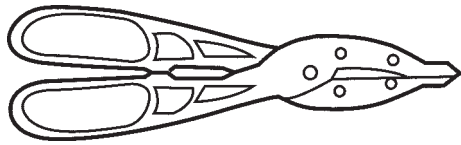
No.	Head	Description	Each
00831	1/4"	8 x 3/4" Bit	\$43.00
00832	5/16"	10 x 5/8" Bit	\$51.62



# SNIPS



## Tinner Snips



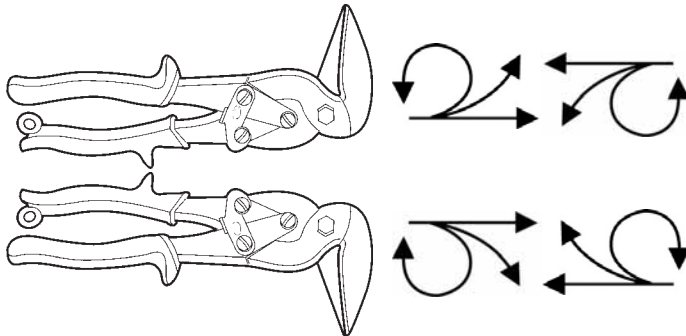
The M1200 has also been designed to comfort the user's hand. The ergonomic design of the enlarged handle bows is contoured to fit the user's hand comfortably.

### Cutting Capacity

Cold rolled Sheet Metal: 22 Ga  
Stainless Steel Sheet Metal: 26 Ga

No.	Description	Each
SNPM1200	M1200 Tinner Snips	\$51.18

## Upright Snips



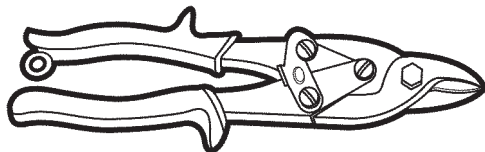
Right angle blades make cutting easier in tight spaces and overhead.

### Cutting Capacity

Cold rolled Sheet Metal: 24 Ga  
Stainless Steel Sheet Metal: 28 Ga

No.	Description	Each
SNPP6900L	P6900L Upright Left Snips	\$43.38
SNPP6900R	P6900R Upright Right Snips	\$43.38

## Bulldog Notch Cutters



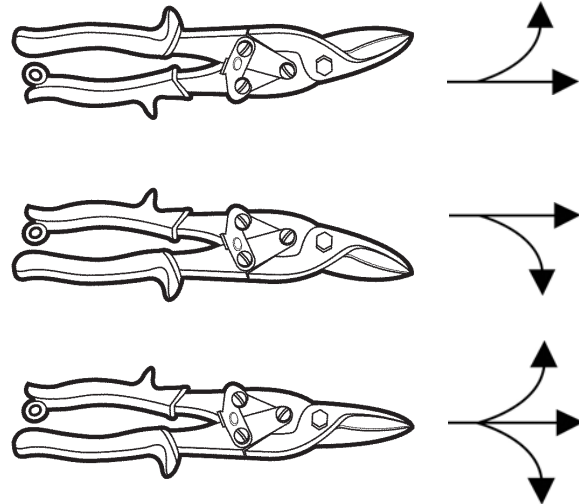
For short notch cuts; cutting thin, thick or multiple thicknesses of sheet materials; and for cable/wire cutting.

### Cutting Capacity

Cold rolled Sheet Metal: 16 Ga  
Stainless Steel Sheet Metal: 18 Ga

No.	Description	Each
SNPP6716B	P6716B Bulldog Snips	\$30.72

## Aviation Snips Regular



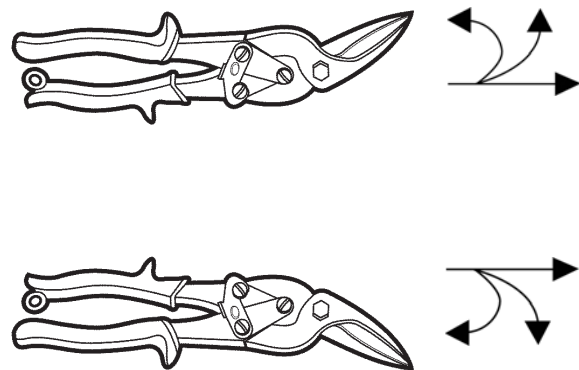
Regular models in three blade patterns, with both top and bottom serrated blades.

### Cutting Capacity

Cold rolled Sheet Metal: 18 Ga  
Stainless Steel Sheet Metal: 22 Ga

No.	Description	Each
SNPP6716L	P6716L Left Snip	\$28.70
SNPP6716R	P6716R Right Snip	\$28.70
SNPP6716S	P6716S Straight Snip	\$28.70

## Aviation Snips Offset



Offset models in two blade patterns keep user's hand above material being cut and flow material away from blades for ease of cut.

### Cutting Capacity

Cold rolled Sheet Metal: 18 Ga  
Stainless Steel Sheet Metal: 22 Ga

No.	Description	Each
SNPP6510L	P6510L Offset Left Snip	\$37.08
SNPP6510R	P6510R Right Offset Snip	\$37.08



**Reciprocating Blades**  
Package of 5



**6" Blades**

No.	Teeth Per Inch	Description	Each
LNX634R	4	Wood	\$31.48
LNX636RP	6	Drywall and Plasterboard	\$34.22
LNX606R	6	Nail embedded wood and plastic	\$30.16
LNX656R	6	Nail embedded wood and contour wood	\$34.22
LNX610R	10	Plastic, nail embedded wood, thick metal, non-ferous metal	\$28.78
LNX614R	14	Medium metal, thick metal, and non-ferous metal	\$28.78
LNX614G	14	Medium metal, thick metal, and non-ferous metal	\$31.04
LNX618R	18	Thin metal, medium metal, and non-ferous metal	\$28.78

**Reciprocating Blades**  
Package of 5



**8" Blades**

No.	Teeth Per Inch	Description	Each
LNX810R	10	Plastic, nail embedded wood, thick metal, non-ferous metal	\$36.44
LNX818R	18	Thin metal, medium metal, non-ferous metal	\$36.44

**Reciprocating Blades**  
Package of 5



**9" Blades**

No.	Teeth Per Inch	Description	Each
LNX956R	6	Wood and nail embedded wood	\$43.30
LNX956G	6	Wood and nail embedded wood	\$48.52

**Reciprocating Blades**  
Package of 5



**12" Blades**

No.	Teeth Per Inch	Description	Each
LNX156R	6	Wood and nail embedded wood	\$55.48
LNX110R	14	Plastic, nail embedded wood, medium metal, thick metal	\$55.48

**Hack Saw**



No.	Description	Each
LNX4012	Hack Saw Frame	\$55.16

**Replacement Hack Saw Blades**

No.	Teeth Per Inch	Description	Each
LNXV232HE	32	Thin metal	\$34.44
LNX218HE	18	Heavy metal	\$35.94

**Utility Knife**



No.	Description	Each
LNXUK	Retractable Utility Knife	\$32.30
LNXUKB	5 pack of Gold Series replacement blades	\$4.90

**Vari-Bit Step Drill Bit**



No.	Description	Each
LNXVB11	7/8", 1-1/8" (For 1/2" and 3/4" Conduit)	\$128.42
LNXVB7	7/8" (For 1/2" Conduit)	\$94.62

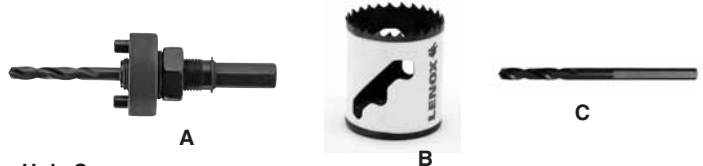
**Hole Saw Kit**

**Arbors Included:** 5L, 6L  
**Hole Saws Included:** 5/8", 7/8", 1-1/8", 1-3/8", 1-5/8", 2-1/8"



No.	Description	Each
LNX600R	8 pc Hole Saw Kit	\$179.82

**Hole Saw Replacement Parts**

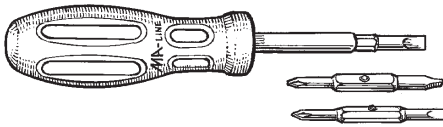


No.	Firgure	Description	Each
LNX18L	A	1-1/8" Hole Saw	\$17.08
LNX26L	A	1-5/8" Hole Saw	\$18.00
LNX32L	A	2" Hole Saw	\$24.92
LNX48L	A	3" Hole Saw	\$33.90
LNX66L	A	4-1/8" Hole Saw	\$49.94
LNX2L	B	Arbor	\$37.78
LNX5L	B	Arbor	\$24.14
LNX6L	B	Arbor	\$16.17
LNX56PD	C	Pilot Drill for 3L, 5L, 6L, 7L Arbors	\$6.26
LNX4321	C	Pilot Drill for 1L, 2L, 4L Arbors	\$7.04

# HAND TOOLS



## 6 in 1 Screwdriver



No.	Description	Each
RCD2216	6 in 1 Screwdriver	\$9.30

## 11 in 1 Screwdriver/Nut Driver-Schrader



- Versatile 11-in-1 tool for the professional.
- Includes unique style bit for installation/removal of common TR-4 Schrader® valves and aggressive thread extractor tip for backing out broken cores.
- Cushion-Grip handle

No.	Description	Each
15731	11 in 1 Screwdriver	\$38.28

## #2 Phillips Screw-Holding Screwdriver



- Starts and drives screws with one hand when working in hard-to-reach spaces.
- Cushion-Grip handle provides superior torque and comfort with non-slip grip.

No.	Description	Each
15733	11 in 1 Screwdriver	\$18.96

## 1/4" Slotted Screw-Holding Screwdriver



- Starts and drives screws with one hand when working in hard-to-reach spaces.
- Cushion-Grip handle provides superior torque and comfort with non-slip grip.

No.	Description	Each
15732	11 in 1 Screwdriver	\$20.78

## Pocket Screwdriver with Clip



Had 1/8" blade and blade is 2" long.

No.	Description	Each
14285	Midget Screwdriver	\$11.26

## Square Blade Heavy Duty Screwdrivers



Heavy duty with square blades which can be gripped by a wrench. Slip-proof handle cannot twist or break off.

### Flat Head, Round Shaft

No.	Vaco	Description	Each
14286	BD135	5/16" x 1-3/4" Stubby	\$10.70
14285	BD183	3/16" x 4"	\$11.26
14272	BD366	3/16" x 6"	\$15.88
14273	BD144	1/4" x 4"	\$16.28
14274	BD146	1/4" x 6"	\$18.00
14275	BD156	5/16" x 6"	\$20.44
14276	BD408	3/8" x 8"	\$28.00

### Flat Head, Square Shaft

No.	Vaco	Description	Each
14277	BD204	1/4" x 4"	\$17.36
14278	BD306	5/16" x 6"	\$21.74
14279	BD308	5/16" X 8"	\$25.20
14280	BD410	3/8" x 10"	\$33.84

### Phillips Head, Round Shaft

No.	Vaco	Description	Each
14284	BD125	#2 Stubby	\$8.82
14281	BD111	#1 Phillips	\$13.88
14282	BD122	#2 Phillips	\$16.28
14283	BD133	#3 Phillips	\$22.18

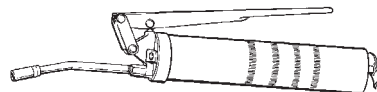
## General Machinists Scriber



Polpular 2-point scriber for machinist has knurled findexhold. One straight and one bent point.

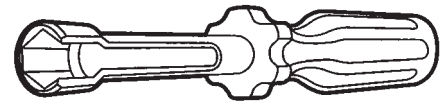
No.	Description	Each
24030	9" Long Scriber	\$9.16

## Lever Action Grease Gun and Multi-Purpose Gun



No.	Description	Each
21270	Grease Gun 14.5 oz.	\$29.46
21271	Grease Cartridge 14.1 oz.	\$12.46

## Nut Drivers



Hexagon nut driver with hardened sockets and shockproof plastic handles for standard hexagon nuts and bolts. Drilled 1-1/2" deep.

### 3" Nut Driver

No.	Vaco	Description	Each
15715	S6	3/16" x 3"	\$15.38
15716	S7	7/32" x 3"	\$15.62
15708	S8	1/4" x 3"	\$15.62
15717	S9	9/32" x 3"	\$15.78
15709	S10	5/16" x 3"	\$15.78
15710	S11	11/32" x 3"	\$16.00
15711	S12	3/8" x 3"	\$16.24
15712	S14	7/16" x 3"	\$14.56
15713	S16	1/2" x 3"	\$19.68

### 6" Nut Driver

No.	Vaco	Description	Each
15721	S86	1/4" x 6"	\$16.92
15722	S106	5/16" x 6"	\$17.10
15723	S116	11/32" x 6"	\$17.32
15724	S126	3/8" x 6"	\$17.52

### Stubby Nut Driver

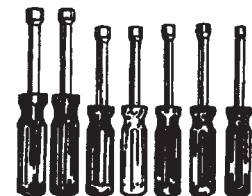
No.	Vaco	Description	Each
15718	SS8	1/4" Stubby	\$15.62
15719	SS10	5/16" Stubby	\$15.78
15720	SS12	3/8" Stubby	\$16.24

### Magnetic Nut Driver

No.	Vaco	Description	Each
15725	S8M	1/4" x 3"	\$19.84
15726	S10M	5/16" x 3"	\$21.42
15727	S86M	1/4" x 6"	\$22.50
15728	S106M	5/16" x 6"	\$24.38

## Nut Driver Kit

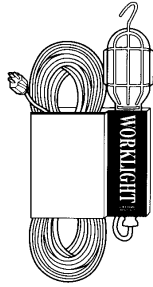
Kit stands up or hangs up. Each driver is 7" long.



No.	Vaco	Description	Each
15755	K-7	7 pc. 3" Shaft	\$113.02
15781	89904	7 pc. 6" Shaft	\$128.16



180 deg Worklight

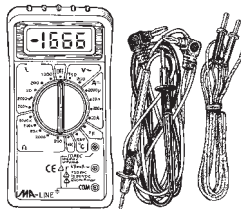


Work light with a 25ft cord

No.	Description	Each
28381	Work Light	\$50.38

Digital Multi-Meter with Temperature with Rubber Boot

- Compact Design
- Manual Ranging
- Fused Protected
- Temperature Measurement
- -4 F to 2498 F (-20 C to 1370C)
- K-type Probe
- Audible Continuity
- 3-1/2" Digit Display
- 1 Year Limited Warranty
- Size: 5-1/2" x 3-1/4"

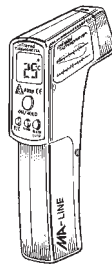


- Specifications:**
- DCV 200mV to 1000V
  - ACV 200V to 750V
  - DCA 200ua to 10A
  - OHM 200 to 2000K
  - Temperature -4 to 2498 deg F

No.	Description	Each
11789	MA-DMT2	\$53.48
11800	Leads for Above	\$6.60
11801	K thermocouple	\$10.50

Mini-Infrared Thermometer Includes Carrying Case 8:1 Distance to Spot Ratio

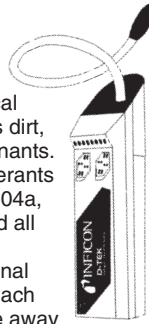
- Specifications:**
- Temperature Range: LCD display with backlighting
  - Measurement Ranges: 0 to 788° F (20° to 420°C)
  - Sample Rate: 1 sec. approx.
  - Power Off: Automatic shutoff after 5 seconds
  - Operating Temperature: 0°C to 50°C (32°F to 122°F)
  - Operating Humidity: Max. 80% RH
  - Power Supply: 9V battery
  - Power Current: Approx. 12mA DC
  - Weight & Size: 200 g / 8.4 oz. 6.7" x 1.7" x 1.6"
  - Resolution Ranges: 1°C/F 0 to 788°F (-20 to 420°C)
  - Accuracy: ±2% of reading (-20-100°C) or 2% whichever is greater
  - Accuracy Ratio: 101-420°C a 3% of reading or 3°C whichever is greater
  - Emissivity Settings: 0.95 fixed
  - Distance Factor: O/S = Approx. ±1 (8:1 D=Distance, S=Spot)



No.	Description	Each
11769	Mini-Infrared Thermometer	\$128.94

D-Tek Select Cordless Leak Detector

- Features:**
- The INFICON Electrochemical Heated-Diode Sensor resists dirt, water, oil, and other contaminants.
  - Equally sensitive to all refrigerants including: R-22, R-134a, R-404a, R-41 Ga, R-507 (AZ-SO) and all CFCs, HCFCs, and HFCs.
  - Variable-intensity audible signal grows stronger as you approach the leak, fainter as you move away from it, positive source identification.
  - Yellow LEDs light progressively to show leak magnitude. Green LED "ON" indicator begins flashing when charge is low, allowing plenty of time to recharge.
  - 800 hours of infrared cell life.



- Specifications:**
- Minimum Sensitivity: 0.1 0 oz/yr sensitivity (R-12, R-134a, R-404a)
  - Charging options: 110 V AC adapter with 6 ft. cord
  - 1 2V adapter with cigarette lighter plug
  - Recharger: Built-in
  - Probe Length: 17"
  - Operating Temp.: 32 F to 122 F
  - Storage Temp.: 14 F to 140 F
  - Warranty: 2 year replacement

No.	Description	Each
46656	D-Tek Select	\$818.90
46657	D-Tek Select Tip Kit	\$31.76

TEK-Mate® - The Affordable, Portable Leak Detector.

- Moderately priced, hand-held leak detector with proven D-TEKTM heated diode sensor technology.
- Equal sensitivity to CFCs, HCFCs, and HFCs eliminates resetting or switching for different refrigerants. Automatically compensates for changing background contamination.



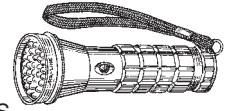
TEK-Mate uses a variable intensity audible alarm and a single flashing LED to help pinpoint leaks.

- Specifications:**
- Base Unit Includes: Sensor, 2 D-size alkaline batteries, spare filters, and a hard plastic carrying case.
  - Sensitivity to CFCs, HCFCs, HFCs: 0.4 oz/yr. (11 g/yr.)
  - Power: 2 D-size (1.5-volt) alkaline batteries
  - Operating Temperature Range: 32°F to 113°F
  - Sampling System: Positive displacement pump
  - Warranty: 2 years

No.	Description	Each
46641	Tek-Mate	\$375.72
46642	Sensor	\$100.00
46644	Sensor filters for Tek-Mate	\$35.10
46646	Tek-Check Leak Reference	\$77.20

LED Flashlight

- 28 LEDs
- Low Beam 3 LEDs
- Medium Beam 11 LEDs
- High Beam 28 Leads



No.	Description	Each
28039	MA-FL28L Flashlight	\$28.98

Terra LUX TLE-20

- Replaces incandescent bulbs
- Fits "AA" and "AAA" Mini Maglights
- Up to 15 hour run-time on 1 set of batteries
- 36 lumens
- No more burned out bulbs!
- 20,000 hr rated lifetime

No.	Description	Each
TLE-20	LED Replacement Bulb	\$22.02

Universal UTL 880 Digital Temp and Humidity Indicator

- Features:**
- Easy to carry
  - Measures temperature and humidity
  - Large LCD display
  - Min/Max function
  - Easy mounting with easel back
  - Comfort indicator



- Range:**
- Temp 32° to 122°F (0° to 50°C)
  - Humidity 25% to 95% RH
  - Resolution of Temp 1°F (1°C)
  - Resolution of RH 1% RH

No.	Model	Each
11795	UTL 880	\$91.90

PDT 550 Digital Pocket Thermometer

- Ruggedized, water resistant, large easy to read LCD. Auto power off, data hold. 3" stem.



It fits flat in your pocket.

No.	Temp. Range	Each
721323	-50° to 300°F	\$28.26



**Leak Detector**



The new XP-1 leak detector has a completely re-designed sensing tip which increases sensitivity, improves reliability and lasts twice as long. It has seven levels of sensitivity adjustment, battery test, true mechanical pump which provides positive airflow through sensing tip, one touch reset and more. **Three year warranty.**

No.	TIF	Description	Each
65280	XP-1	Leak Detector	\$671.48
65279	XP-2	Maintenance Kit (3 tips & 3 protectors)	\$61.28

**TIF 8800A  
Combustible Gas Detector**

Leak Detector will detect combustible or deoxidizing gases. These include butane, acetylene, methane, ethane, propane, ethylene, hydrogen, methyl ether, vinyl chloride, methyl chloride, hydrogen sulfide, acetone, methanol, ammonia, gasoline and chlorine. Will detect 50-1000 PPM. Uses an audible ticking sound to signal leaks. Increases to a squeal as leaks are found. One minute warm-up. Has Ni-CAD rechargeable batteries. With charger, batteries and case. Probe length 12", dimensions 8" x 3" x 2".



No.	TIF	Description	Each
65261	8800	Gas Detector	\$589.38
65293	8801	Sensing Tip for TIF 8800, 8900	\$61.30
75296	8806A	Rechargeable battery for TIF 8800, 8900	\$85.86
75297	8803A	115v Recharger Adapter for TIF 8800, 8900	\$00.00

**Digital Hand-Held Scale**

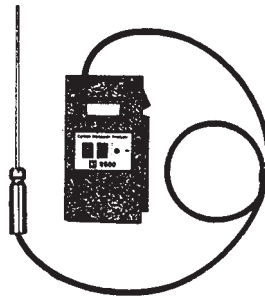
- Easy to use
- Push button
- Auto shut off in 50 Series
- Memory of max. weight
- Max scale up to 50 lbs.
- Accuracy up to ±2%
- Lbs./kgs. switch
- 9V battery included



No.	Description	Each
11768	MA-49051 Scale	\$64.04

**TIF 8500 Carbon Monoxide Analyzer**

**TIF8500  
CARBON  
MONOXIDE  
DETECTOR**

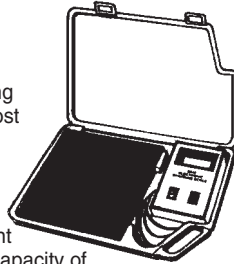


The TIF 8500 is a professional grade service tool for accurate measurements of Carbon Monoxide (CO) levels in any environment or application. The 0 to 2000 parts per million range allows measurements of most areas including ambient, appliance surroundings and furnace flues. The unit has rapid warm up, overrange indication, low battery warning backlit display for low light areas. LCD readout and more. One year warranty.

No.	TIF	Model	Each
65283	8500	Carbon Monoxide Analyzer	\$1,178.64

**TIF 9010  
Charging Scale**

The TIF 9010 charging scale is a new, low cost alternative to current electronic charging meters. The slim line design is less than half as thick as current units. With a weight capacity of 110 lbs., 1/10 ounce resolution and 0.5% accuracy. Comes in a tough ABS plastic case and weighs 4.5 lbs. and powered by a single 9V battery.



No.	Description	Each
65269	TIF 9010 Scale	\$448.44

**TIF9020 Remote  
Programmable Module**

- Permits automatic programmable charging or recovery using the TIF9010A or ADS-100 electronic scale.
- Self-contained and portable, powered by 4 "AA" batteries.
- Color-coded tactile keypad with universal symbols.
- Compatible with all refrigerants, including High Pressure (R-410A).
- LED indicators for low battery and valve open alerts.
- Includes protective carrying case with integrated handle/hanging strap, and interface cable for TIF9010A.
- High impact case • One year warranty • Made in USA

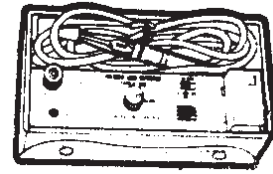


**Specifications:**

Charging Ports	1/4" MFL fittings; 1/2" ACME adapters
Power Supply	4 "AA" batteries
Battery Life	60 hours continuous operation
Operating Temp	32° to 120°F
Max. Solenoid Operating Pressure	500 psi

No.	Description	Each
65287	TIF9020 Remote	\$694.64

**H10G  
Refrigerant Leak Detector**



The H10G is a professional grade leak detector for use by refrigeration and air conditioning technicians. This detector senses all CFC, HCFC and HFC refrigerants and blends such as R12, R502, R22, R404a, R507 and R134a, among others. H10G has a high quality pump which supplies constant air flow to sensor so it responds quickly after exposure to refrigerant so leak can be verified. It has an external calibration source which indicates when the sensor is working properly and serves as a reference point to judge leak size. Provides the most sensitivity available today. Will sense 0.5 oz. per year. Audible and visible neon lamp leak alarm. Ambient operating conditions 32° to 113°F. 5-90% RH, non-condensing. Unit is 120v powered, response time is approximately 1 second. Dimensions 2.8" x 8", 8" x 5.0" with a vinyl case.

No.	Description	Each
46630	H10N,G,B Leak Detector	\$0000.00

**Accessories**

No.	Description	Each
45530	H10N, G, B Sensor	\$142.82
45531	Maintenance Kit	\$49.06
45533	Reference Leak	\$92.64
45535	Plastic Probe Tip	\$25.42
45536	Rubber Tips	\$8.92

**Infrared Thermometer  
with Pressure  
Temperature Chart**

Temperature range -22 deg to 932 deg

Large easy to read screen  
PT chart for 66 refrigerants



No.	Description	Each
12836	Infrared thermometer PT chart	\$171.88

**Electronic Pressure  
Temperature Chart**

PT chart for 66 refrigerants



No.	Description	Each
12834	PT Chart	\$71.68



**Pocket Type Multimeter  
AM-47**



Don't let the dimensions fool you. The Pocket DMM Digital Multimeters incorporate a full range of features—in a portable package—that are usually found in larger sized meters.

**Specifications:**

- AC Voltage: 6.000/60.00/600.0V
- DC Voltage: 6.000/60.00/600.0V
- Resistance: 600.0Ω
- AC/DC uA Current: 0 - 400µA/2000µA
- Frequency: 10.00Hz – 30.00kHz
- Capacitance: 100.0/1000nF
- 10.00/100.0/2000µF
- Non-Contact Voltage Detection:
- Bar Graph Indication 15V to 55V -
- 30V to 85V - -
- 55V to 145V - - -
- 85V to 190V - - - -
- Above 120V - - - - -

No.	Description	Each
AM-47	Pocket Size Multimeter	\$103.04

**Digital Multimeter TRMS  
AM-110TRMS**

- BEEP-JACK audible warning against improper connection
- Auto and manual ranging
- Relative zero mode
- Auto power off
- Backlight display
- Easy to read LCD display
- Audible continuity



**Specifications:**

- AC / DC Voltage: 400.0mV, 4.000/40.00/400.0/1000V
- Resistance: 400.0Ω, 4.000/40.00/400.0kΩ, 4.000/40.00MΩ
- AC/DC Current: 400.0/4000µA, 40.00/400.0mA, 4.000/10.00A
- Capacitance: 50 0.0nF, 5.000/50.00/500.0/3000µF
- Temperature: -4°F to 572°F (-20°C to 300°C)

What TRMS Means ....

T = True                      R = Reading  
M = Measurement        S = Scale

No.	Description	Each
AM-110TRMS	Meter	\$211.52

**Digital Multimeter  
AM-240**

- Measure: AC/DC Voltage up to 600V, AC/DC Current up to 10A, Resistance, Capacitance, Frequency, Duty Cycle
- AC/DC micro Amps for sensors diagnosis
- Large Backlight LCD Display
- Diode Test
- Audible Continuity Test
- Data Hold
- MAX, MIN and Relative measurements
- Auto and Manual Ranging
- Auto Power Off (can be disabled)
- Tilt stand



**Specifications:**

- AC/DC Voltage: 400mV
- 4.000/40.00/400.0/600 V
- AC/DC Current: 400/4000µA 40/400 mA
- 4/10 A
- Resistance: 400.0 Ohms
- 4.000/40.00/400.0 kOhms
- 4.000MOhms/40.00 MOhms
- Capacitance: 40.00/400.0 nF
- 4.000/40.00/400.0/4000µF
- Frequency: 10.00/ 100.0/1000 Hz
- 10.00/100.0/1000 kHz
- 10M Hz
- Duty Cycle: 0.1% to 99.9%
- Temperature: -58° to 1382°F (-50° to 750°C)

No.	Description	Each
AM-240	Digital Multimeter	\$94.42
02675	Replacement Leads	\$36.74

**Temperature Pipe Clamp  
K-Style**



Measures pipe temperature -40 deg to 392 deg  
Works with any test instruments that accepts a K-type probe

No.	Description	Each
28382	Pipe Clamp	\$53.24

**Combustion Analyzer**



**Measures**

- CO2 (EOS Technology)
- CO (Long Life Sensor)
- Inlet Temp/Flue Temp
- Hi-Res Differential Manometer (select 0.01"/0.001" wc)
- No (EAGLE 3X: installed, EAGLE 2X: available as upgrade)

No.	Description	Each
UEIC155KIT	Digital Meter	\$327.48

**Digital Multimeter**



- 600 Volts AC & DC
- Continuity
- Resistance to 200 ohms
- Manual ranging
- 3-1/2" digit, 2000 count display
- UL and CE listed CAT II
- 1 year limited warranty

No.	Description	Each
UEIDM200	Digital Meter	\$85.90

**Digital Multimeter**



- 750 V AC and 1000 V DC
- 10 Amps AC and DC
- .01 µA DC resolution for flame safeguard circuit testing
- Capacitance to 40,000 MFD
- Resistance to 40 Megohms
- Analog bar graph
- Continuity
- 5 year limited warranty

No.	Description	Each
UEIDM384	Digital Meter	\$224.80

**Clamp on Meter**



- CAT III rated at 400 amps and 600 volts AC and DC
- Resistance measurements to 40 Megohms
- Continuity tone sounds at < 50!
- Peak hold for AC clamp current
- Data hold
- Autoranging
- 1 mV DC resolution allows use of DMM adapters
- Includes test leads and carrying case with belt clip
- Low battery indicator
- Auto power-off
- 3 year limited warranty

No.	Description	Each
UEIDL49	Digital Meter	\$227.16

**Clamp on Meter**



- 4000µF Capacitance
- Non-Contact Voltage 24~600V AC
- 750V AC/1000V DC
- 400A AC
- MIN/MAX
- -22° ~ 752°F Temperature (K type)
- Worklight
- Low Battery Display Lock
- EasyView High Contrast Backlight Display
- Magnetic Mount
- User Temperature Calibration
- Auto Off
- 3 Year Limited Warranty

No.	Description	Each
UEIDL379KIT	Digital Meter	\$327.48

Tools

## SERVICE TOOLS



### Recovery Machine

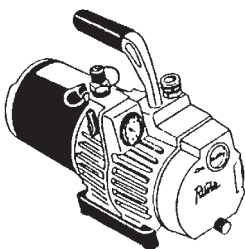


- High pressure safety shut-off switch. If system pressure rises above 550 psi, the unit shuts off. The shut-off switch automatically resets itself after pressure drops below 400 psi.
- Works with all CFC, HFC, HCFC refrigerants
- One-year warranty

No.	Description	Each
RG6000	Recovery Machine	\$1,119.92

### Ritchie Vacuum Pumps

The Ritchie Vacuum Pump features two-stage rotary vane design which increases efficiency and speeds pump down to 15 microns.



Heavy duty high torque motor assures cold weather starting. Vacuum indicator gauge at the pump intake shows evacuation progress down to 29 to 30 inch range, so you'll know when to turn on an electronic gauge for more precise readings. Ritchie recommends the current mineral based vacuum pump oil when working with either regular or new alternative refrigerants regardless of the system oil.

No.	CFM	HP	Wt.	Each
27040	4	1/3	30	\$881.30
27045	7	1/2	34	\$628.84

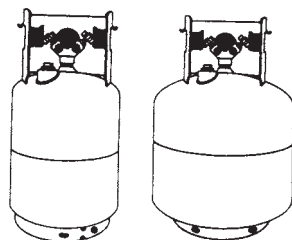
### Robinair VacuMaster



The two-stage, offset rotary vane design provides powerful, quiet high vacuum capability and assures moisture removal, while the high pumping capacity reduces evacuation time. The intake filter prevents foreign matter from entering the pumping chamber, and an internal exhaust filter separates oil vapor from the exhaust flow.

No.	CFM	HP	Wt.	Each
15500	5	1/3	28	\$399.70

### Recovery Cylinders



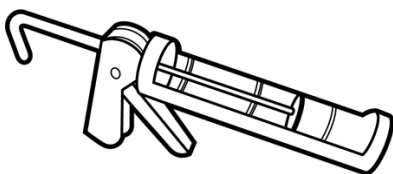
#### Recovery Cylinders rated at 400 psi can be used for 410a refrigerant

No.	Size	Description	Each
09259	30 lb	30 lb Cyl max 400 psi	\$249.30
09260	50 lb	50 lb Cyl max 400 psi	\$328.50
09201	100 lb	R-12 100lb Cylinder	\$390.02
09203	100 lb	R-502 100 lb Cylinder	\$393.72

#### Deposit for Refrigerant Cylinders

No.	Size	Description	Each
09100	9 lb	Cylinder Deposit	\$409.40
09101	20 lb	Cylinder Deposit	\$300.00
09102	23 lb	Cylinder Deposit	\$472.76
09103	28 lb	Cylinder Deposit	\$472.76
09104	70 lb	Cylinder Deposit	\$629.94
09105	125 lb	Cylinder Deposit	\$393.72

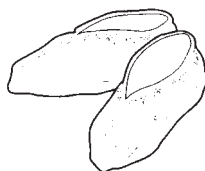
### Caulk Gun



E-Z thrust all steel caulking gun for the professional tradesman. Rugged, dependable and economical!

No.	Description	Each
60719	Caulk Gun	\$7.50

### Shoe Covers



No.	Description	Each
14567	150 Pair of Covers	\$126.68
14568	5 Pair of Covers	\$4.54

### Batteries



High quality national brand batteries will give long and economical service. Our stock of batteries is carefully watched so that only fresh batteries are in stock. Used to power flashlights, electronic meters, ignition torches etc.

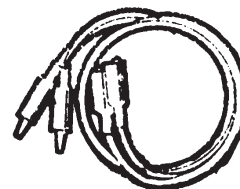
No.	Size	Each
22055	AAA	\$9.78
22054	AA	\$13.12
22057	C	\$14.72
22058	D	\$14.72
22059	9 Volt	\$10.44

### Electrical Tape



No.	Description	Each
03198	3/4" x 66 ft.	\$2.12

### Heavy Duty Jumper Wires



The super flexible heavy duty 24" jumper wire set can also be used as test leads. Have a rubber covered wire with soldered alligator clips. Wire is 14 AWG, red and black, and they come with vinyl plastic boots.

No.	Description	Each
61790	Jumper Wires	\$10.40

### Magnetic Chuck



No.	Hex Shank Size	Each
23830	1/4"	\$8.82
23831	5/16"	\$5.98
23832	3/8"	\$4.44





**Ratchet Hand Bender**

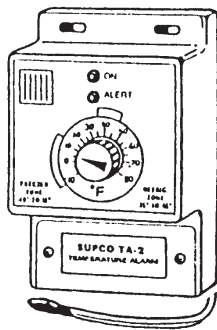


Easy one hand bending of soft copper, aluminum and light wall hydraulic tubing from 3/8" to 7/8".

- Bending shoes change quickly. Trouble free ratchet mechanism. Bend 3/4" tube to 90° in less than 10 seconds.
- Index marks ensure bending to length. Complete swing bender kit includes all items shown to bend 3/8", 1/2", 5/8", 3/4" and 7/8" tubing per 573.20.

No.	Ritchie	Description	Each
27071	60331	Complete kit	\$303.50

**Temperature Alarm System**



Warns of rise or drop of temperature changes in walk-in coolers, freezers or display cases. Will only sound when temperature rises above setting for one continuous hour.

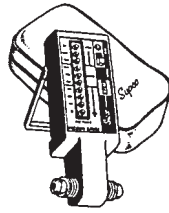
May be mounted on wall or control panel. Accuracy to +1°F, with an adjustable range of 0° to 50°F.

Comes complete with 6" power cord and 6" sensor cord with encapsulated sensor.

Unit can be connected to relay for any remote signal or central alarm panel.

No.	Description	Each
60549	TA-2	\$180.14

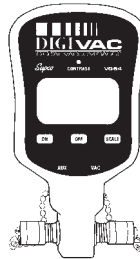
**Electronic Vacuum Gauge No. VG-60**



A durable self-contained battery powered vacuum gauge which displays the level of vacuum on a ten LED color coded read out. Allows for reading in ten segments from atmosphere to 50 microns. The unique design of the VG-60 allows for in-line connection through the system or directly at the vacuum pump. Connections are 1/4" male flare. Uses (1) 9 volt battery.

No.	Description	Each
60578	VG-60	\$252.32

**Digital Vacuum Gauge No. VG-64**



Suitable for field or laboratory use, the VG64 delivers high precision at a low price.

**Features:**

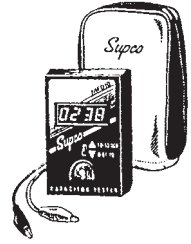
- Ultra fine resolution: (1 Micron when vacuum ≤ 200 Microns)
- Reads vacuum in 7 international units
- Display updates every 1/2 second
- Convenient built in hanger
- Cleaning port provides quick cleaning and drying of sensor

**Specifications:**

Sensor type	Thermistor
Connector type	Standard 1/4 inch male flare fitting
Vacuum Range	0-12,000 Microns with vacuum increasing/decreasing indicator when above 12,000 Microns.
Resolution	0-200: 1 Micron 201-500: 5 Microns 501-1,000: 10 Microns 1,001-2,000: 50 Microns 2,001-5,000: 250 Microns 5,001-8,000: 500 Microns 8,001-12,000: 1,000 Microns
Operating Temp. Range	35°F to 125°F
Overpressure	500 PSI max
Accuracy	+/-10%
Power Source	9 Volt Alkaline Battery (not included)
Continuous Usage	30 Hours (approximate)
Auto Shutoff	After 10 minutes when vacuum reading is above 12,000 Microns

No.	Description	Each
60579	VG-64	\$317.92

**Digital Capacitor Tester**



A Solid State battery operated pocket size digital capacitor tester with a light emitting diode. Readout that provides the exact capacitor value on run, start and DC electrolytic fro 10 to 10,000 MFD. Also checks continuity in fuses, transformers, motors and circuits.

Has built-in leads with alligator clips and single button activator control. Comes in a tough plastic case. Dimensions 4-1/2" high x 2-5/8" wide x 1-3/8" deep. (4) AA 1/5V batteries not included.

No.	Description	Each
60548	MFD-10	\$138.32

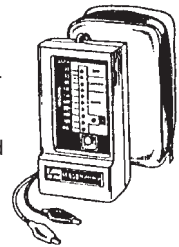
**M-500 Megohmmeter**

The M-500 was designed specifically as an inexpensive alternative to costly taut-band, (swing needle) megohmmeters.

This reliable battery operated instrument, complete with LED indicators, accurately measures insulation values up to 1000 megohms at 500 volts and also indicates the condition of insulation on the zone scale.

Two alligator clip leads store within the case.

An operating manual and vinyl carrying case are included. Priced at a fraction of the cost of conventional units, the M-500 is considered a super value in today's instrument market.



No.	Description	Each
60519	M-500	\$277.14

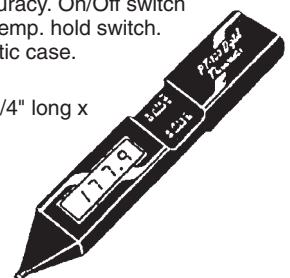
**Digital Pocket Thermometer**

Pocket size 9-volt battery powered digital thermometer designed to meet the requirements of field servicemen and lab technicians. This unit with its extremely sensitive air and surface sensor probe measures superheat, evaporator plate and condensing temperatures along with air inlet, outlet and ambient temperatures. Ideal for measuring temperature for all refrigeration, heating and air conditioning systems.

From -60°F to 199°F. Readout in 7/16" high liquid crystal display with 3-1/2 digits in 1/10 increments, ±2°F accuracy. On/Off switch standard with a temp. hold switch. High impact plastic case.

Dimensions: 1-1/2" wide x 6-3/4" long x 7/8" high.

Weight: 2-1/4 ounces.



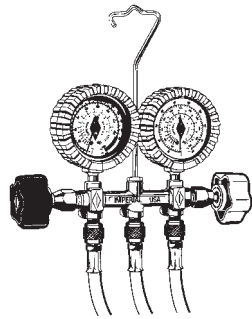
No.	Description	Each
60557	Digital Pocket Thermometer	\$92.16



## SERVICE TOOLS



### 2 Valve Charging and Testing Unit

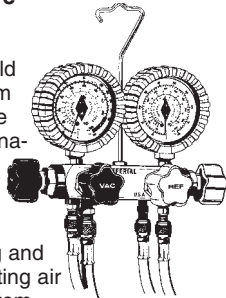


2 Valve Brass Imperial Manifold

No.	Vendor No.	Refrigerant	Hoses	Each
27118	421c	R22, R404A, R410A	3 60 inch	\$115.90
27125	42004	R22, R404A, R410A	3 60 inch	\$209.46
27101*	450c	R404, R507, R134A	None	\$82.22

\*27101 450c has built on sight glass

### Imperial Brass 4 Valve System Analyzer



Compact control manifold with 4 soft seat diaphragm valves in one body. One hook up allows you to analyze, evacuate and charge without changing connections.

Saves repeated purging and reduces chances of getting air and moisture in the system. Hose and closure plate keep unit clean when carrying and storing. Oversize internal porting and 3/8" flare vacuum connection reduces evacuation time.

Other connections are 1/4" male flare. Matching 2-1/2" color coded gauge have unbreakable Lexan crystals removable for calibration.

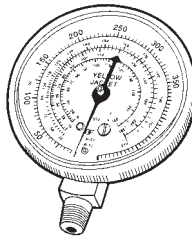
### 4 Valve Brass Imperial Manifold

No.	Imperial	Refrigerant	Hoses	Each
27117	644c	R22, R404A, R410A	4 60 inch	\$254.30
16386	421c	R12, R22, R502	4 60 inch	\$254.30

### Replacement parts for Manifolds

600 Series			
No.	Description	Each	
16373	Replacement Hi & LO Knobs with stems	\$14.20	
16375	Replacement VAC & REF Knobs with stems	\$14.20	
16374	Diaphragm Replacement Seal Kit	\$22.62	
400 Series			
No.	Description	Each	
28066	High Side Repair Kit with soft touch knob	\$22.90	
28067	Low Side Repair Kit with soft touch knob	\$22.90	
16381	Hook for manifold	\$7.38	
16382	Hose Holder	\$33.84	

### Imperial Replacement Parts Gauges



No.	Description	Each
16361	High Side R12, R22, R502	\$34.40
16362	Low Side R12, R22, R502	\$34.40
27123	High Side R22, R404A, R410A	\$31.86
27124	Low Side R22, R404A, R410A	\$31.86
27111	High Side R410A	\$36.08
27112	Low Side R410A	\$36.08
27102	High Side R134A	\$37.38
27103	Low Side R134A	\$37.38
27104	Red / High Side	\$32.54
27105	Blue / Low Side	\$32.54
65300	High / Glycerine	\$81.02
65299	Low / Glycerine	\$81.02
27106	Protective Boot	\$28.22
27107	Lenz Cap	\$7.52
715330	Handle for series 41	\$15.86

### Imperial Kwik-Charge Liquid Low Side Charger

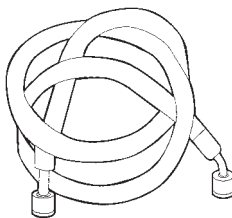


The Kick-Charge takes liquid refrigerant from the container and charges saturated vapor into the low side of the system. Even though the charging rate is 8x faster than vapor charging a metering element keeps the liquid flow below the capacity of the compressor to give you unrestrictive evacuation. Tracing dyes like Dytel should be liquid charged into a system through the Kwik-Charge.

Size: 1/4 female sae inlets x 1/4 male sae outlet.

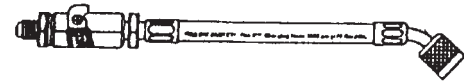
No.	Description	Each
16380	Imp 535C	\$49.92

### Vacuum Hoses



No.	Description	Each
28051	3/8 vac. 36"	\$42.62
28052	3/8 vac. 60"	\$52.04
27050	1/4 x 3/8 vac. 48"	\$60.22
27051	1/4 x 3/8 vac. 60"	\$30.58
27052	3/8 x 3/8 vac. 60"	\$86.04

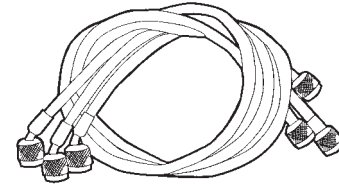
### Flex Valve Adaptor Hoses



1/4 male sae x 45 deg. 1/4 sae female.

No.	Color	Length	Each
27083	Yellow	6 inch	\$35.12
27084	Blue	6 inch	\$35.12
27085	Red	6 inch	\$35.12
27087	Black	6 inch	\$50.08
28053	Set of 3	6 inch	\$93.68

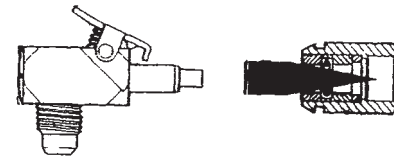
### PolarShield Refrigerant Hoses



800 psi working pressure.  
4000 psi burst pressure.

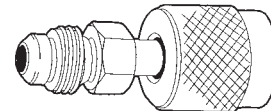
No.	Color	Length	Each
28041	Yellow	36 inch	\$18.22
28042	Blue	36 inch	\$18.22
28043	Red	36 inch	\$18.22
28044	Yellow	60 inch	\$31.78
28045	Blue	60 inch	\$31.78
28046	Red	60 inch	\$31.78
28047	Set of 3	36 inch	\$65.72
28048	Set of 3	60 inch	\$88.14
28049	Set of 3	72 inch	\$99.30

### Kwik Couplers



No.	Description	Each
09325	Set of Kwik Couplers 1 90deg / 1 straight	\$76.08
09322	O-Ring	\$5.94
09323	Gasket	\$9.88

### Hose Adapters



No.	Description	Each
49476	3/16 female x 1/4 male sae	\$28.42
27081	1/4 Quick Connects	\$28.52
27079	1/2 acme female x 1/4 male sae	\$25.20
19173	45 Deg. 5/16" FE Q.C. x 1/4" Male Flare	\$28.72

### Hose Replacement Parts

No.	Description	Each
04461	1/4 hose gaskets	\$1.00
04462	3/4 hose gaskets	\$3.02
04463	1/4 valve opener	\$17.38
04460	SealRight repair kit	\$20.96



**Ratchet Tube Cutter**



Cuts copper, brass and aluminum tubing as well as thin-walled conduit. Self-feeding ratchet motion for easy cutting in close quarters.

Cuts 1/4" - 7/8" pipe

No.	Description	Each
MALRTC823	Cutter	\$59.80

**Extend - A - Match**



A durable brass and chrome plated 24" telescopic extender for lighting the pilot light on gas valves. The match is held by spring loaded jaws and inserted through the peep hole for ignition. Extend-A-Match retracts to 5" and can be carried in a shirt pocket.

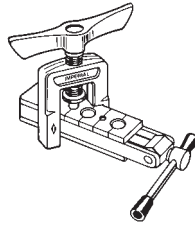
No.	Description	Each
25942	Pocket Extender	\$6.60

**Tape Measure**



No.	Description	Each
49479	25 ft. Tape Measure	\$45.72

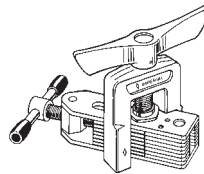
**Rol-Air Flaring Tool**



Has built-in spring that allows the cone to make 1 or 2 revolutions as it is backed off the face of the flare. Flares 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" tubing.

No.	Description	Each
23084	500-FB Flaring Kit	\$147.66

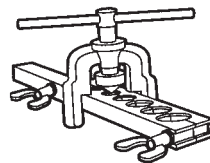
**The Grabber Rol-Air Imperial Flaring Tool**



Flares 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" tubing. Also flares metric tubing 4.7mm to 16mm.

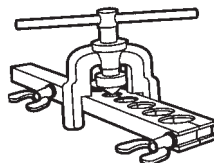
No.	Description	Each
16372	525-F Flaring Kit	\$137.68

**Large Size "Slip-On" Yoke Flaring Tool**



No.	Description	Each
16311	203-FA Flares 5/8", 3/4", 7/8" and 1-1/8"	\$199.84
23050	103-FS Flares 3/4", 7/8", and 1"	\$191.98

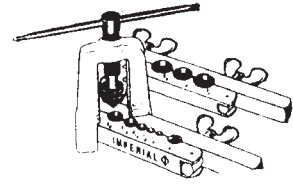
**"Slip-On" Yoke Flaring Tool**



Yoke is made to slip on over the bar without twisting or turning. The inside edges of the yoke are slotted and once in position, a slight turn holds it in place on the bar. An additional feature is the thin flange on the yoke which allows flares to be made in very little space between the unit and the end of tubing. Flares soft copper, brass, or aluminum tubing.

No.	Description	Each
23093	Flares 1/4", 5/16", 3/8", 1/2", 5/8"	\$68.32

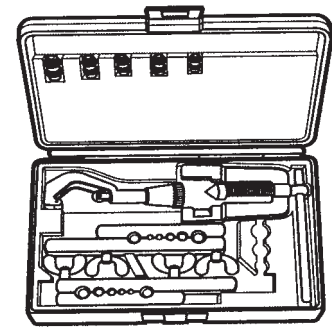
**Wide Range Flaring Tool**



One bar flares 1/8", 3/16", 1/4", 5/16", 3/8", and 7/16". Second bar flares 1/2", 5/8", and 3/4".

No.	Description	Each
13564	375-FS Flaring Kit	\$168.22

**Wide Range Flaring Tool**



Will either flare or swage tubing by changing a few simple adapters. Includes a bar to hold 1/8", 3/16", 1/4", 5/16", 3/8", and 7/16" tubing and another for 1/2", 5/8", and 3/4" tubing. The slip on yoke has a swivel nut that screws into the flare cone on the 4 swage adapters. Swage adapters fit 3/16", 1/4", 3/8", 1/2", 5/8", and 3/4". Kit includes: 2 bars, yoke, flaring cone and 4 swage adapters

No.	Description	Each
13455	Complete Tool Kit	\$264.30
13457	Swage Adapter for 3/16", 1/4", 3/8"	\$27.72
13460	Swage Adapter for 3/4"	\$23.28
13398	Slip on Yoke Only	\$61.28

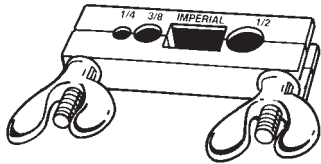
**Swaging Tool**



Swages 1/2", 5/8", and 7/8" or 3/8", 1/2", and 3/4" soft copper and aluminum tubing. Has slip yoke and are charged for size of tubing.

No.	Description	Each
16315	Complete Swaging Tool	\$171.78
13398	Slip On Yoke Only	\$61.28

**Pinch Off Tool**



No.	Description	Each
13553	1/4", 3/8", and 1/2"	\$63.08

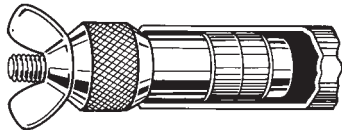
**Pinch Off Pliers**



Will close all sizes of tubing up to 1/2" OD. Enough force can be applied to the round jaws so that the tubing will be closed completely, but will not be cut and may easily reopen.

No.	Description	Each
16179	Pinch off Pliers to 1/2"	\$13.70

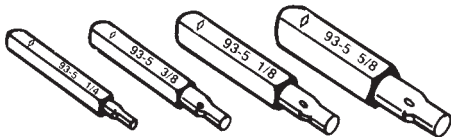
**Tubing Test Plugs**



Used in refrigeration, heating, gas, and liquid lines to temporarily shut off the end of a line without damaging the tubing or using a valve. Holds up to 100 lbs. Of pressure.

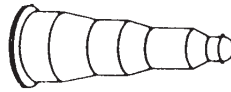
No.	OD Tube	Nominal	Each
23020	1/4"	1/8"	\$16.40
23021	3/8"	1/4"	\$17.98
23022	1/2"	3/8"	\$17.98
23024	3/4"	1/2"	\$22.40
23028	7/8"	3/4"	\$32.32
23029	1-1/8"	1"	\$36.26
16313	1-3/8"	1-1/4"	\$74.46

**Swaging Tool**



No.	OD Tube Size	Each
04350	1/4"	\$11.26
04351	5/16"	\$14.04
04352	3/8"	\$15.12
04353	1/2"	\$16.28
04354	5/8"	\$20.08
04355	3/4"	\$21.06
04405	7/8"	\$20.06
04403	Set of 4 for 1/4", 3/8", 1/2", 5/8"	\$20.06

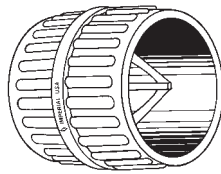
**Swaging Tool 6 in 1**



Swaging sizes: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8"

No.	Description	Each
49405	Swaging 6 in 1	\$33.90

**Inner and Outer Reamer**



Reamer for tubing 3/16" to 1-1/2"

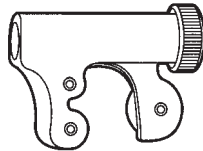
No.	Description	Each
13452	208-F Reamer	\$47.78

**Coil Spring Tube Bender**



No.	Description	Each
00988	1/4" OD to 5/8" OD	\$31.84
00986	3/4" OD	\$13.76
00987	7/8" OD	\$24.08

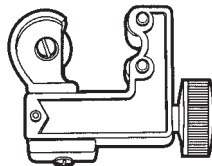
**Tube Cutter**



Compact fast and accurate and cuts hard or soft tubing. 1/8" to 5/8" OD. Only requires 1-1/4" clearance to swing.

No.	Description	Each
16355	Cutter for 1/8" to 5/8"	\$30.48
04312	Cutting Wheel	\$41.24
04314	Screw for Wheel	\$4.54

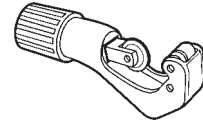
**Tube Cutter**



Cuts 3/8" to 1-1/8" hard or soft tubing. Requires 1-15/16" to swing when cutting 3/8" tube and 2-1/4" to swing when cutting 1-1/8" tube.

No.	Description	Each
16370	Cutter for 3/8" to 1-1/8"	\$60.74
16344	Cutting Wheel	\$105.10
16345	Wheel for Stainless	\$65.98
14346	Extra Screw	\$21.10
LNX21008	Cutter for 1/8" to 5/8"	\$25.14
LNX21191	Wheel for Plastic	\$22.98
LNX21192	Wheel for Copper	\$27.06

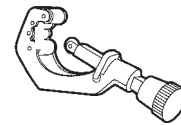
**Hi-Duty Tube Cutter**



Only 4-1/2" overall it has a capacity from 1/8" to 1-1/8" OD tubing. Bottom rollers with flare cut off groove. The mechanism is free and easy acting and is protected from draft and damage by the streamlined aluminum alloy body and handle. Retractable hardened steel reamer that locks in open and closed positions.

No.	Description	Each
16342	Cutter for 1/8" to 1-1/8"	\$64.10
16343	Cutter for 1/4" to 1-5/8"	\$88.46
16344	Extra Cutting Wheel	\$105.10
16345	Wheel for Stainless	\$65.98
16346	Screw for Cutter Wheel	\$21.10
LNX21010	Cutter for 1/8" to 1-1/8"	\$53.90
LNX21191	Wheel for Plastic	\$22.98
LNX21192	Wheel for Copper	\$27.06

**Hi Duty Adjust-O-Matic**



You simply push the handle down to the tubing being cut and tighten with regular easy acting handle. A release button lets you open the cutter the full size.

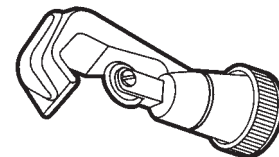
Cuts 3/8" to 2-5/8" tubing.

No.	Description	Each
16347	Cutter for 3/8" to 2-5/8"	\$121.34

Similar to above but with capacity to cut 2-1/8" to 4-1/8" tubing. This tool has 2 rollers and does not have a reamer.

No.	Description	Each
16351	Extra Cutting Wheel	\$56.94

**Junior Tube Cutter**



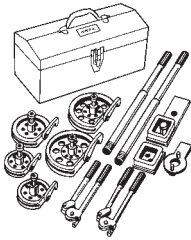
Cuts 1/8" to 3/4" tube.

No.	Description	Each
04300	Cutter for 1/8" to 3/4"	\$34.82
04312	Extra Cutting Wheel	\$40.24
04314	Screw for Cutter Wheel	\$4.54





**Wide Range Tube Benders**  
260-FHA, 350-FHA, and 360-FHA

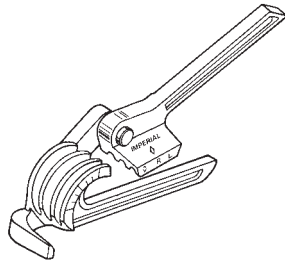


Each tool quickly adapts to all sizes in its range by changing the forming wheel and block. Long handles reposition during bend for best leverage. Calibrations show precise bend angle. One piece benders furnished for 1/4" and 5/16" sizes. Furnished in steel tool kit with space for other tools on a job.

		Radius of Benders			
OD	Radius	OD	Radius	OD	Radius
1/4"	9/16"	1/2"	1-5/8"	3/4"	3"
5/16"	11/16"	5/8"	2-1/4"	7/8"	3"
3/8"	1-5/8"				

No.	Description	Each
23048	Bends 6 sizes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" OD tube	\$1,165.36

**Triple Header Tube Bender**  
397-FH and 368-FH



Bends annealed copper, brass, steel, aluminum and stainless steel tubing.

No.	Description	Each
16389	1/4", 5/16", 3/8" OD tube	\$64.24

**Lever-Type Tube Bender**  
Sizes: 1/4" to 7/8" OD

Each tool bends one size. Open side typed which slips over the tube at any point. Makes smooth short radius bends up to 180 deg with minimum effort. No marking, scraping or flattening of tubing. Calibrated to show angle of bend. Wide hook grips tubing securely. New fixed hook tube benders furnished for 1/4" to 1/2" OD sizes have easy 90 deg start-require much less effort to make fast, accurate bends. Wide fixed hook simplifies operation, hold tubing securely. Each tool bends only one size.

No.	OD	Nom. Rad.	Wt.	Each
04390	1/4"	1/8"	9/16"	1 lb. \$117.24
04391	5/16"	-	11/16"	1-1/8 lb. \$161.10
04392	3/8"	1/4"	1"	1-3/4 lb. \$119.82
04245	1/2"	3/8"	1-1/2"	3-1/2 lb. \$231.98
04246	5/8"	1/2"	2-1/4"	5-1/2 lb. \$288.42
04247	3/4"	5/8"	3"	7 lb. \$415.14

**Magnehelic Differential Pressure Gauge**



The Magnehelic gauges have an easy to read 4" dial that quickly indicates low air or gas pressures positive, negative, or differential. Resistant to shock, vibration, and overpressure. No fluid, evaporation, freezing, or toxicity problems. Also can be used to measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, check gas-air ratio controls, etc. Includes 2 1/8" NPT plugs, for the duplicate pressure taps, 2 1/8" NPT to rubber tubing adapter and 3 flush mounting adapters with screws.

No.	Description	Each
70636	0 to 2" water	\$161.28
70637	0 to 5" water	\$201.60
70638	0 to 15" water	\$135.88

**Accessories for Magnehelic**

**Air Filter Gauge Kit**

Air filter gauge kit includes 2 5 ft 1/4" aluminum tubes, 2 plastic vent valves, 2 static pressure tips, and surface mounting brackets.

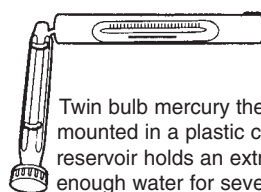
No	Description	Each
70639	Air Filter Gauge Kit	\$59.06

**Carrying Case Kit**

Includes portable carrying case with 9 ft. of 3/16" rubber tubing, stand/hang bracket and terminal tube with holder.

No	Description	Each
70640	Carry Case	\$91.44

**Bacharach Sling Psychrometer**



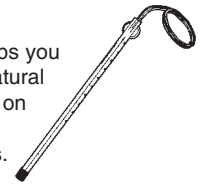
Twin bulb mercury thermometer are mounted in a plastic case. A water reservoir holds an extra length of wick and enough water for several hours of testing.

Range: 30 deg F to 100 deg F.

No	Description	Each
70925	Complete Psychrometer	\$222.12
70926	Extra Thermometer	\$86.16

**Water-Type Manometers**

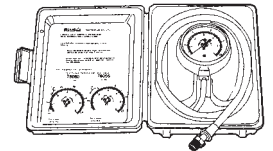
Plastic tube manometer helps you set manifold pressure for natural or LP gas. A strong magnet on the manometer holds it in convenient upright positions. Includes tubing with fitting.



No.	Description	Each
49479	-2" to 7-1/2" W.C.	\$45.72
49481	0" to 15" W.C.	\$49.42

**Manifold Pressure Kit**

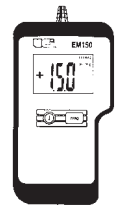
- Use these handy kits to Measure Natural Gas or LP Gas Pressure across appliance manifolds
- Test gas stoves, furnaces, dryers and other gas appliances
- Manifold Pressure Test Kit, Pressure measurements from 0 - 35" of water column
- Includes fitting for quick connection to the appliance manifold



No.	Description	Each
11784	Gas Pressure Kit	\$106.20

**EM150 Electronic Manometer**

- Data hold
- Min. Max.
- Measures -20" to 20" water gauge
- Automatic Zero when turned on
- Includes 18" of tubing and fitting
- 1 Year Limited Warranty



This electronic instrument provides a continuous display of the measured positive or negative pressure. Measurement starts at .5". Use for checking gas pressures, pressure switches, flue draft and air balancing.

No.	Description	Each
11799	EM150	\$187.04

**Psychrometer THWD-2**

- Perfect for checking ambient air conditions in an HVAC environment
- Measures Fahrenheit or Celsius
- Humidity measurement
- Calculates dew point and wet bulb temperatures
- Recalls minimum and maximum readings
- Auto power off feature
- Data hold, locks reading for viewing
- Dual LCD display with bargraph indication



**Specifications:**

Range	-4 deg F to 140 deg F
Humidity	1% RH to 99% RH
Temperature Accuracy	+/-1.5 deg F
Humidity Accuracy	+3% RH
Power Source	3 AAA Batteries

No.	Description	Each
776157A	Psychrometer	\$226.30



# BRUSHES



## Brass Wire Brushes For Cleaning Condensers and Heat Exchangers



No.	OD Brush	Each
02882	3/8"	\$11.56
02883	7/16"	\$11.56
02884	1/2"	\$13.88
02885	9/16"	\$12.00
02886	5/8"	\$20.18
02887	11/16"	\$12.00
02875	3/4"	\$12.46

## Black Nylon Tube Brushes

No.	OD Brush	Each
02904	3/8"	\$6.68
02907	9/16"	\$10.76
02908	5/8"	\$7.88
02909	11/16"	\$7.12
02910	3/4"	\$7.34

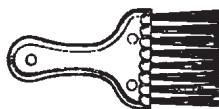
## Stainless Steel Tube Brushes

No.	OD Brush	Each
02911	3/8"	\$12.46
02913	1/2"	\$14.36
02915	5/8"	\$23.70

## Accessories

No.	Description	Each
02905	Hand Grip 1/2" x 4"	\$8.24
02901	24" Extension Male to Female	\$17.68
02902	36" Extension Male to Female	\$14.20

## Condenser Fin Brush



Brush to clean fins of condenser and evaporators with 8 tofs of blue nylon wish-type bristles. 2-1/8" long. Overall 7" x 3-1/8".

No.	Description	Each
02903	Condenser Brush	\$3.52

## Furnace Cleaning Brush



No.	Description	Each
700051A	Furnace Brush	\$8.90

## Curved Handle Wired Brush with Wood Back



Commonly called "scratch" brushes, with carbon steel wires. 14" overall length with 7-1/2" wood handle and 6-1/2" wide. Brush length 1-13/16" wide.

No.	Description	Each
02979	Wood Handle Brush	\$13.04

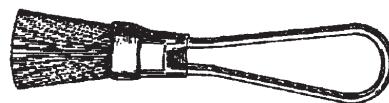
## Machine Parts Cleaning Brush



Has universal application. Can be used in factory, garage, or wherever machine parts must be cleaned. Features high resistance black crimped polypropylene bristles. Overall length 12" x 2-7/8" trim.

No.	Description	Each
02980	Machine Part Brush	\$6.14

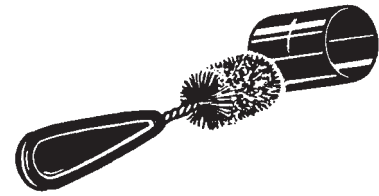
## Handy Wire Touch Brush



With oil tempered straight wire.

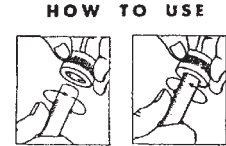
No.	Description	Each
21769	Wire Brush	\$6.80

## Copper Fitting Brushes



No.	OD Brush	Each
02890	1/4"	\$5.30
02891	3/8"	\$9.44
02888	1/2"	\$9.48
02889	5/8"	\$9.48
02897	3/4"	\$9.66
02898	7/8"	\$9.66
02899	1-1/8"	\$10.50
02840	1-3/8"	\$10.64

## Copper Pipe Cleaning Brushes



Copper Pipe Cleaning Brushes for cleaning outside of Tubing

Twist on in one direction and twist off in the other. Leaves tubing ready for soldering. Brushes clean outside of tubing.

No.	OD Brush	Each
02933	1/4"	\$8.46
02934	3/8"	\$8.46
02935	1/2"	\$12.32
02936	5/8"	\$8.46
02937	3/4"	\$9.34
02938	7/8"	\$9.34
02939	1-1/8"	\$15.08

## Flux Brushes

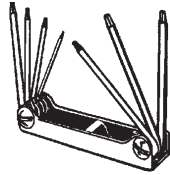


Package of 10

No.	Description	Each
03152	Flux Brushes	\$4.50



**Fold Uni-Key Pocket Hexagon Wrench Set**



No.	Keys	Wide Across Hex	Each
18479	9	.05 to 3/16"	\$16.82
18481	5	3/16" to 3/8"	\$18.82

**7 Piece Steel Hexagon Key Wrench Set**



A 7-piece set of plated short arm hexagon wrenches for socket set screws. In plastic case with thumblock seal. Set consists of hex keys 5/64", 3/32", 1/8" 5/32", 3/16", 7/32" and 1/4".

No.	Description	Each
18414	12" Long Arm	\$23.16
18413	Approx. 5" Long Arm	\$17.60

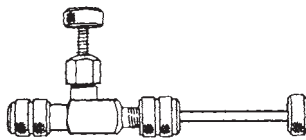
**Access Valve Tool**



Contains six Schrader type valve cores with neoprene seals.

No.	Description	Each
60753	Valve Core Remover	\$13.58
22795	Valve Cores/6 pack	\$5.32

**CRT Tool**



Designed for removing and replacing a Schrader type core, without losing the charge. Made principally of CDA 360 Brass, screw machined to tolerance of ±005, uses in all of its seals a special mixture of neoprene and Buna N with 2800 lbs. tensile strength. Overall length in a closed position is 3-1/2", open 5-3/4". Warranty on quality of workmanship and materials.

No.	Description	Each
60750	CRT Tool	\$78.50
60749	CRT w/access	\$87.58

**Reach-All Spring Retriever**



A spring operated 23-1/2" tool with 4 expanding and retracting flexible steel fingers. Used to reach into tight places to start nuts or screws or pick up small parts. Very flexible. When needed, saves hours.

No.	Description	Each
16203	Reach-All	\$15.80

**4 Size Ratchet Wrench**



**Compressor Access Valve Wrench**

No.	Description	Each
16390	4 sizes 1/4", 3/8", 3/16", and 5/16" square drive	\$24.30
04623	4 sizes 1/4", 3/8", 3/16", and 5/16" square drive 23" Offset	\$24.40
16392	Adapter for 3/16" and 5/16" Service Valves	\$18.10

**Indestro-Duro Refrigeration Female Drive - Reversible 1/4" Ratchet Wrench**



Has 9/16" hexagon and 3/16", 1/4", and 5/16" square openings.

No.	Each
04622	\$78.46

**Safe-T-Grip Fuse Puller**



A rugged laminated fibre fuse puller that is strong, light, and durable and will give you safe protection. Formed to fit the fingers to give a good grip. 7-1/2" long for fuses 1/2" to 1-1/2" diameter.

No.	Each
20030	\$6.14

**La-Co-Slic-Tite Stick**



Similar to the Slip-tite paste but made into a solid clean white stick saturated with Teflon and other PTFE resins. In a tough plastic dispenser cartridge ready for use. Has same properties and uses as the paste.

No.	Description	Each Stick
29230	La-Co Slic-Tite Stick	\$21.12

**Pipetite-Stik**



A non-setting compound made of resins and finely divided inorganic material that lubricates and seals threaded joints. Withstands gasoline, oil, propane, Freon, water, steam, acid, brine, etc. Easily applied will not flow and clog small size pipe. Joints may be made and remade without cleaning. Nontoxic, excellent for food industry. For all types of metal or plastic threads. Approximate 1-1/2 oz. stick.

No.	Sold only in lots of 12	Each
03228	12-Lot—Each	\$2.56

**C-Master Mirrors**



Will let you see around corners and in back and are adaptable to any inspection and at every angle. Will help you work and help you find leaks. Two ball swivel joint and knurled handle.

No.	Mirror	Each
22061	1" by 2" Oval	\$8.10
22062	1" by 2" Mirror Refill Only	\$4.26

**With Telescoping Handle and a Large Mirror**



Overall length extended 15-5/8" and folded 6-5/8"

No.	Mirror	Each
22063	2-1/8" x 3-1/8" Rectangle	\$11.14
22064	2-1/8" x 3-1/8" Mirror—Refill Only	\$1.98

**Capillary Tube Gauging Tool**



Ten sized of hardened steel wire—.028, .031, .036, .039, .042, .046, .050, .055, .064, and .070 OD

No.	Description	Each
61709	Gauging Tool	\$46.16

**Permacel Teflon Ribbon Dope Thread Sealant**

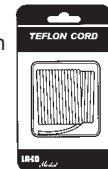


Permacel Teflon ribbon dope thread sealant is made of DuPont's pure Teflon. It may be stretched around any make threaded pipe or fitting to make a high pressure sealed joint. Because it is self-lubricating joints sealed with ribbon dope may be easily taken apart and reassembled. Seals from -450°F to 500°F.

No.	Size	Each
29840	1/2" x 260"	\$1.04
29842	1/2" x 520" (4 Pack)	\$6.40

**La-Co Slic Tite Teflon Cord Packing**

An ideal packing material for valves, pumps, stuffing boxes and faucets, can be used as a gasket between flanges, in gear cases and expansion joints. Pure, virgin white Teflon withstands temperature from -450° to +550°F. Resists attack by almost all chemicals acids, refrigerants, steam, solvents, and any liquid or gas, but not recommended for use with oxygen.



No.	Cord Size	Each
29244	3/32" x 25 Ft. Long	\$43.00

**La-Co Slic-Tite Teflon Thread Paste**

This heavy duty thread sealing paste is not toxic, easily applies, will not stain, dry out or harden. Loaded with pure Teflon particles, it makes up easily and seals threads of iron, stainless steel, brass or aluminum. Used for refrigerant, gasoline, oil, LP gases, solvents, acids, water steam, caustics, and air but is not recommended for use with oxygen. Holds pressures to 10,000 PSI at temperatures from -50° to +500°F.

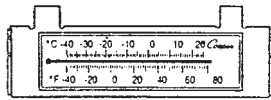


No.	Size	Each
29231	1/2 Pint Brush in Cap	\$31.34
29233	Pint	\$49.72

## THERMOMETERS



### Refrigerator/Freezer Thermometer

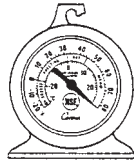


Horizontal non-toxic filled glass tube. Magnifying lens. Hand, stand or permanent mounting. Dual scale 2° increments -40° to 80°F (-40° to 26.7°C). Completely enclosed. Meets all Health Department specifications. X1.75".

No.	Model	Each
05307	335	\$7.10

### Hanging or Standing thermometer

Stainless steel case, 2" diam. Temperature zoned dual scale dial with 2° markings. Unit has a vinyl lens for added safety. Range -20° to 80°F.



No.	Model	Each
05304	25HP	\$7.50

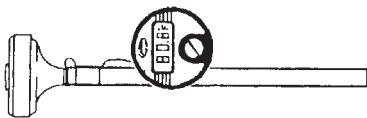
### Instant Reading Pocket Test Thermometers



1" diam. dial with 5" stainless steel stem, unbreakable magnifying lexan lens and high visibility pointer, recalibrateable, 2 increments. Comes with handy pocket sheath and safety clip.

No.	Temp in F	Dial	Div	Each
05319	25 to 125F	1"	1	\$13.24
05320	50 to 550F	1"	5	\$11.62
05321	-40 to 160F	1"	2	\$8.88
05322	0 to 220F	1"	2	\$8.88

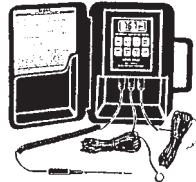
### Digital Pocket Thermometer



- Instant update button
- Auto Shutoff
- 1" Anti-roll head
- 1.5 volt battery #392

No.	Model	Temp in F	Each
05375	DP450	-40° to 450°	\$54.38

### Multi-Probe Temperature Tester

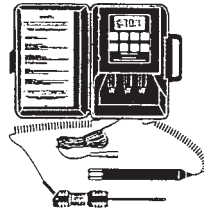


The wide temperature range, fast and accurate reading, and the 3-probe operation make the Electro-therm SH66A ideal for many industrial uses, including:

- **HVAC:** for heat pumps, compressors, solar heating systems, suction and high side line temps, coil temps, inlet/outlet temps and ambient air temperature.
- **Industrial Process Control Equipment**
- **Food Service Industries**
- **Electrical/Electronic Equipment Servicing:** -40° to 300°F accuracy ±0.2°F

No.	Model	Each
13796	SH66A	\$409.78

### HVAC/R Temperature/Humidity Tester



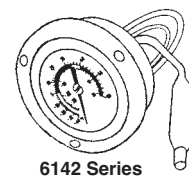
#### Three Zone — Features:

- Displays temperature differential between probes 1 and 2
- 9.5" x 6.5" x 3.5" (closed case)
- Detachable #1075 general purpose probe, #4010 surface probe and #5026R humidity probe
- Min/Max feature records highest & lowest temperatures
- Auto shut-off after 15 minutes with override option
- Rugged polyethylene storage case
- Backlight for dark environments
- Scan mode stores data until technician stops the function
- Sealed membrane touch pad protects units from spills and dust
- 9 volt alkaline battery • Battery eliminator jack
- -40° to 300°F
- Accuracy ± 0.3°F or ± 0.5° of reading
- Ambient humidity: 10 to 95% RH
- Accuracy ± 3% below 20 and about 80% RH
- Automatically calculates wet bulb

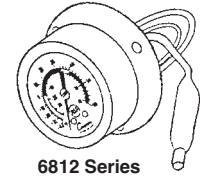
No.	Model	Each
13794	SRH77A	\$561.44

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[www.harryalter.com](http://www.harryalter.com)

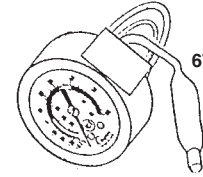
### Cooper Instruments



6142 Series



6812 Series



6742 Series

### Dial Vapor Tension Thermometers

- Dial Models are Recalibrateable
- Buffed Stainless Steel Case
- 48-inch Capillary
- Dual Scale for Fahrenheit and Celsius

### 2-inch Diameter Dial

No.	Model	Mount	Range	Each
05394	6142-20	Flange	-40 to 60	\$45.18
05395	6812-01	Back Flg	-40 to 60	\$65.16
05374	6742-19	U-Bracket	-40 to 60	\$75.28

### 2.5-inch Diameter Dial

No.	Model	Mount	Range	Each
05393	7112-02	Back Flg	-40 to 120	\$65.50

\*05396 has black painted case.

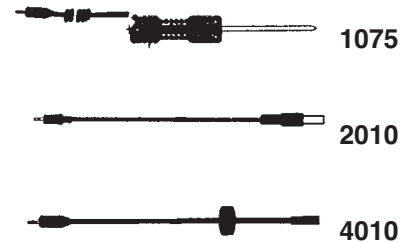
### Digital Panel Mount Thermometer

- 2-inch diameter acrylic lens and 0.5" LCD
- Buffed stainless steel case
- 39-inch sensor lead
- 1.5 volt battery #393



No.	Model	Mount	Range	Each
05368	DM-120	Flange	-40 to 120	\$87.20

### Replacement Probes for SH66A, SRH77A & TM99A



### Replacement Probes

No.	Model	Probe	Each
13798	1075	General	\$71.88
13799	2010	Air	\$55.80
13800	4010	Surface	\$87.18

Why use

# FACTORY AUTHORIZED PARTS ?

## Benefits for the Dealer / Technician,

### Factory Authorized Parts:

- provide an exact drop-in replacement,
- feature exact electrical connections and lead lengths,
- feature exact mounting characteristics
- preserve the UL and/or CSA approvals and listings for the parts in the original equipment.

## Benefits for the Home / Business Owner,

### Factory Authorized Parts:

- preserve the original manufacturer's warranty,
- preserve the original efficiency of the system,
- preserve engineered sound requirements (for applicable components such as motors),
- and meet rigorous factory run life design specifications.

**What are you working on today?**

