



# HAND TOOLS

## 1 - INSIDE/OUTSIDE SNAP RING PLIERS



Dual action Snap Ring Pliers quickly converts to install both internal and external snap rings. Includes a set of 4 tips: .045" straight, .060" straight, .045" at 45 degrees, .035" at 90 degrees.

No. 46000 .....

## 2 - DRIVE PIN PUNCHES

A set of 8 hardened pin punches uniformly heat treated and centerless ground to withstand the hardest use. The end of each punch is ground square for accurate pin driving. Each set contains one of each of the following diameter punches: 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", and 5/16". Overall length of each punch is 4".



No. SPC75 .....

## 3 - EXTRA LONG DRIVE PIN PUNCH SET

Made of tool steel, hardened and centerless ground to a perfectly flat face. The extra length makes them indispensable for reaching those hard areas, or punching out long bolts. The Set contains 5 punches in a vinyl case in the following sizes: 1/8", 3/16", 1/4", 5/16" & 3/8". Overall length of each punch is 8".



No. SPC76 .....

## 4 - QUAD RATIO DRIVER (4:1 RATIO)

If you spend a lot of time installing and removing screws then the Ratio Driver will speed up your work by a factor of four. The geared drive mechanism ratchets the nosepiece 4 times for each turn of the handle; and the ratchet direction can be reversed with a quick flick of a switch. It accepts any 1/4" drive bits and includes an assortment of 8 bits in the handle compartment. The included bits are: Hex 3/32", 1/8", 5/32", 3/16"; Torx 15, 20, 25, 30; Phillips 0, 1, 2, 3; Slot 1/4", 3/16"; Roberts (square) 2, 3. Lifetime warranty.



No. SAB710 .....

## 5 - T-HANDLE HEX WRENCH SET

Contains sizes 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8



No. 307X6 .....(6" long).....

No. 308X6 .....(9" long).....

## 6 - ALLEN® HEX WRENCH SET

Genuine Allen brand wrench in sizes:

- .050", 1/16" (p/n 56030 only).
- 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4" (p/n 56030, 56034 & 56110).
- 5/16", and 3/8" (p/n 56030 & 56034).



No. 56030 .....(11 pcs, 4" short arm) .....

No. 56034 .....(9 pcs, 6" long arm) .....

No. 56110 .....(7 pcs, 12" long arm) .....

## 7 - MAGNETIZER/DEMAGNETIZER

A handy device that magnetizes and demagnetizes screwdrivers, wrenches, and other small tools. Pass your tool through one hole to make it magnetic, and then pass it through the second hole to remove the magnetism. Can also be used to remove unwanted magnetism from small tools.



No. 40010 .....

## 8 - HIP ROOF TOOLBOX

General purpose, sturdy copolymer construction, large partitioned tote tray. Large nickel-plated steel draw-bolts. Lockable padlock eye. Size 19"W x 9-1/4"H x 10"D.



No. 19000 .....

## 9 - CANVAS TOOL BAG

This heavy duty canvas bag is perfect for toting your tools around in the field. It contains ample space for a rivet gun and bucking bars, plus plenty of pouch space for accessories. Dimensions are 6"Hx6"Wx12"L.



No. CB21 .....

# HAND TOOLS



## 1 - E-Z SCREWDRIVER



Quick and easy way of installing or removing screws. Offset designed handle allows "speed" driving of screws. Ideal for removing and installing inspection plates, cowling screws, etc.

No. SP496A..... (New Design) .....

No. SP495-1..... (#2 Phillips replacement bit).....

## 2 - THREADED SCREWDRIVER BITS

They have 1/4-28 threads for use in our SP496A, or any threaded tooling.



Slotted

Phillips

Part No.	Description	Price
B00141	#1 Phillips Bit	
B00142	#2 Phillips Bit	
B00147	#3-4 Slotted Bit	
B00149	#6-8 Slotted Bit	
B00145	Set of 4 bits	

## 3 - THREADED HEX BIT ADAPTER

The Nova Threaded Bit Adapter lets you use your hex shank insert bits with any 1/4-28 threaded tool. Perfect for close quarters applications



No. PA28-450 .....

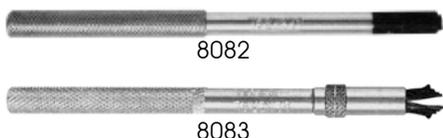
## 4 - THREE PIECE OFFSET SCREWDRIVER SET

The perfect screwdriver for those really tight areas. Each set includes #3 Phillips x 5/16" slotted; #2 Phillips x 1/4" slotted; #1 Phillips x 3/16" slotted.



No. OSD3 .....

## 5 - SCREW STARTERS



8082

8083

For starting screws in inaccessible areas.

Part No.	DESCRIPTION	PRICE
8082	Slotted starter 3/64" - 7/6" screws	
8083	Phillips starter #6 - 1/4" screws	

## 6 - PHILLIPS® AVIATION INSERT BITS

Genuine Phillips Tri-Wing® and Torq-Set® bits are hot formed for optimum toughness and resistance to wear. Each bit is 1" long and has a 1/4" hex shank that will fit into most screwdrivers.



TRI-WING



TORQ-SET

Point Size	TRI-WING®		TORQ-SET®	
	Part No	Price	Part No	Price
0	TW0	\$3.15	TQ0	
1	TW1	\$3.15	TQ1	
2	TW2	\$3.15	TQ2	
3	TW3	\$3.15	TQ3	
4	TW4	\$3.15	TQ4	
5	TW5	\$3.15	TQ5	

## 7 - PRECISION SCREWDRIVER SET

A set of quality precision screwdrivers perfect for working on radios, electrical circuits, and other delicate instruments. They have a patented, ergonomic handle for greater comfort, and a swivel head offers rapid rotation. The set includes each of the following screwdrivers: #00-CP, #0-CP, #1-CP, 3/32"-Flat, and 1/8"-Flat.



No. 700 .....

## 8 - COMPASS SCREWDRIVER



Solid brass screwdriver is designed to adjust magnetic compasses.

No. 906 .....

## 9 - JEWELER'S SCREWDRIVER

Nickel plated body with screw chuck. Kit contains three size flat blades, one Phillips blade and one scratch awl. Comes in a fitted vinyl case. Made in U.S.A.



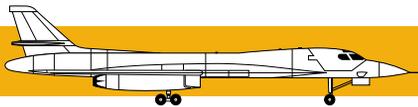
No. SPC606 .....

## 10 - IMPACT DRIVER

3/8" drive kit includes reversing driver and 4 insert bits, Metal case included.



No. 650-S .....



# HAND TOOLS

## 1 - DIAL TORQUE WRENCHES



These precise torque wrenches are accurate to within +/- 2%. They have an easy-to-read, sealed dial that indicates when the desired torque is reached. Has an attractive chrome finish for longer life, and includes a plastic carrying case.

Part No.	Range	Grad	Drive	Price
2651	0-250in-lb	5 in-lb	3/8"	
2652	0-600in-lb	10 in-lb	3/8"	

## 2 - MICROMETER TORQUE WRENCHES



Micrometer torque wrenches allow you to preset a desired torque and will "click" when it's reached. These wrenches also feature an automatic lock to prevent the setting from being accidentally changed. They are accurate to 4% in the right hand direction, and 6% in the left hand direction. Meets ANSI standard B107.14M.

Part No.	Range	Grad	Drive	Price
2952	30-250 ft-lb	1 ft-lb	1/2"	
2954	5-75 ft-lb	0.5 ft-lb	3/8"	
3262	30-200 in-lb	1 in-lb	1/4"	
3263	50-240 in-lb	1 in-lb	3/8"	

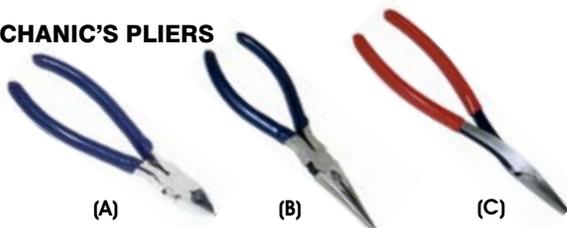
## 3 - VISE-GRIP® PLIERS

Genuine Vise-Grip pliers are made in the USA.



Part No.	Size	Type	Price
7R	7"	Standard	
6LN	6"	Long Nose	
9LN	9"	Long Nose	

## 4 - MECHANIC'S PLIERS



Part No.	Fig.	Size	Type	Price
5X634	A	6"	Diagonal	
6X637	B	6"	Long nose cutter	
5X640	C	7"	Duck bill	
6X087	A	4"	Diagonal	

## 5 - CRESCENT® "FORD" WRENCH



The original Crescent Wrench (aka Monkey Wrench, aka Ford Wrench, aka Spud Wrench). It's the mechanics tool of choice for removing and installing "B" nuts. Smooth jaws. Forged from Crescent® special analysis tool steel and chrome plated for durability. Precision machined to meet or exceed government standards.

- No. C79H ..... (9").....
- No. C711H ..... (11").....
- No. C715..... (15").....
- No. C718..... (18").....

## 6 - SOFT FACE HAMMERS

Shatter resistant plastic faces will not mar or scuff your work.



- No. 93315 ..... (24oz).....

## 7 - RAWHIDE HAMMERS

Rawhide hammers have good control and deliver a solid impact.



- No. M0 ..... (1").....
- No. M2 ..... (1-1/2").....
- No. M4 ..... (2").....

## 8 - BRASS HAMMERS

Non-sparking brass hammers are perfect for working in volatile spaces.



- No. B2 ..... (1 lb).....
- No. B4 ..... (2 lbs).....

## 9 - DEAD BLOW HAMMERS

Soft-faced dead blow hammers deliver a solid blow without recoil or excessive shock. Great for hard pounding.



- No. CH1 ..... (1-1/2").....
- No. CH3 ..... (2").....
- No. CH5 ..... (2-1/2").....

# HAND TOOLS



## 1 - NICHOLSON® DUAL “VIXEN” FILE



Fast cutting “curved tooth” file cuts through aluminum, brass, steel, plastics, fiberglass, and composites without loading up. Features a coarse cutting surface on one side (10 TPI) for quick removal and a smooth cut on the other side (16 TPI) for finishing. Made in USA.

No. 20547N..... (12”).....

## 2 - NICHOLSON® MAGICUT™ PLASTIC FILES



Magicut files feature a pattern of narrow chip breakers created by steep and angled serrations for rapid removal of material with virtually no loading, even when working with soft plastics. Perfect for fiberglass, lexan, plexiglas, composites, and soft metals.

Part No.	Description	Price
07894	8” Flat	
07917	10” Flat	
07941	12” Flat	

## 3 - NICHOLSON® ALUMINUM FILES



Special double-cut teeth is designed specifically to quickly remove aluminum without clogging. Can also be used for smoothing.

Part No.	Description	Price
00024	8” Flat	
00047	10” Flat	
00070	12” Flat	
00187N	12” Half Round	

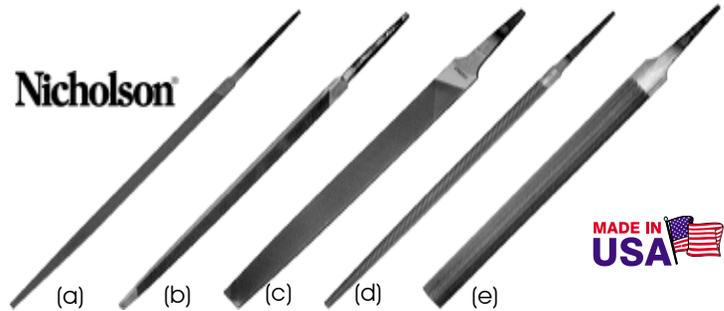
## 4 - WIRE BRUSHES



Used to remove rust scale, paint, solder, clean threads, files, metal parts and castings. Wood handles with high carbon steel wire.

Part No.	Fig.	Size	Price
6X877	a	5 x 5/8”	
6X878	b	5 x 1”	

## 5 - NICHOLSON® GENERAL PURPOSE FILES



MADE IN USA

Part No.	Fig	Description	Price
13081		8” Square Bastard	\$
13196	a	10” Square Bastard	\$
13310		12” Square Bastard	\$
13807M	b	6” Regular Triangular Bastard	\$
13875M		8” Regular Triangular Bastard	\$
14224M	b	6” Slim Triangular Bastard	\$
14290M		8” Slim Triangular Bastard	\$
14665M	b	6” X-Slim Triangular Bastard	\$
14729N		8” X-Slim Triangular Bastard	\$
09099		8” Mill Bastard	\$
09179	c	10” Mill Bastard	\$
09227		12” Mill Bastard	\$
11904		8” Round Bastard	\$
12019	d	10” Round Bastard	\$
12134		12” Round Bastard	\$
04896N	e	8” Half Round Bastard	\$
04995N		10” Half Round Bastard	\$
05094N		12” Half Round Bastard	\$
21455		File Cleaner (File Card)	\$

## 6 - NICHOLSON® ERGONOMIC FILE HANDLE

Designed to fit most popular files. Rubber coated for better comfort and control. Tapered shape to enhance push force.



No. 21474H.....

## 7 - NICHOLSON® NEEDLE FILE SET

A set of 6 precision files made to meet the exacting standards of die makers, instrument makers, jewelers, watchmakers, and other craftspeople. Each set contains 1 each of: Equaling, Half Round, Flat, Round, Square, and Three Square (Triangular) Swiss Pattern Files. Comes packed in a durable vinyl case. Overall length of each file is 5-1/2”.

No. 42030 ..... (Nicholson 6 pcs) .....

No. 5475.....(Economy 12 pcs).....

