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**SPECIALTY**

## ALUMINUM LED/UV DUAL LIGHT

- › Tough aluminum housing is anodized inside and out.
- › Patterned, rugged handle for firmer grip and resists corrosion.
- › Up to 100,000 hours of service.
- › High-impact polycarbonate lens.
- › Magnetic base.
- › UL AC charger and 12V cigarette charger included.
- › 1.5W LED flashlight head rated at 130 lumens.
- › 33 bright white LED rated at 80 lumens.
- › 20 UV LED rated at 390NM.



Product #	Diameter Maximum (in)	Voltage	Lumens	Overall Length (in)	Weight (lbs)	Battery Type
<b>JFC98266D</b>	1-45/64	12V/110V	1.5W LED flashlight head rated at 130 lumens; 33 bright white LED rated at 80 lumens; 20 UV LED rated at 390NM	15-1/2	1.05	NiMh internal battery

## CONTINUOUS SHOT AIR GREASE GUN

- › Heavy-duty cast aluminum body with comfortable cushion-grip.
- › 3-way loading: bulk, 14 oz. cartridge, and filler pump.
- › Bleeder valve for purging unwanted air.
- › 40:1 ratio.
- › Output per stroke: 2 ml.
- › Output pressure: 3,600 PSI.



Product #	Overall Length (in)	Weight (lbs)
<b>JFC63HD</b>	16-3/32	4.05

## HEAVY-DUTY SINGLE SHOT AIR GREASE GUN

- › Heavy-duty composite body with comfortable cushion-grip.
- › 3-way loading: bulk, 14 oz. cartridge, and filler pump.
- › Bleeder valve for purging unwanted air.
- › 40:1 ratio.
- › Output per stroke: 2 ml.
- › Output pressure: 3,600 PSI.



Product #	Overall Length (in)	Weight (lbs)
<b>JFC53HD</b>	16-13/32	3.22



## HEAVY-DUTY PISTOL GRIP GREASE GUN

- › 3-way filling: bulk, cartridge, or filler pump.
- › 16 oz. bulk fill.
- › 14 oz. standard cartridge.
- › Heavy-duty 1.7 mm thick seamless barrel to avoid dents.
- › Aluminum head reduces weight.
- › Heavy-duty flexible 18" nylon hose and 6" metal spout for easy use.
- › Output pressure: 3,600 PSI.

Product #	Overall Length (in)	Weight (lbs)
<b>JFC33HD</b>	16	3.86



## SUCTION GUN

- › Heavy-duty, 16 oz. capacity, 1.7 mm thick seamless barrel with textured finish.
- › 12" clear flexible tube.
- › Heavy-duty "T" handle with finger grooves for easy use.

Product #	Overall Length (in)	Weight (lbs)
<b>JFC19HD</b>	14-51/64	2.35



## TUBING CUTTER

- › Cuts metal tubing from 1/8" through 1-1/8" O.D. quickly and cleanly.
- › Features heat-treated alloy steel cutting blade, special rollers, and heavy-duty screw mounted in durable steel frame.
- › Large screw-knob and retractable tubing reamer.

Product #	Diameter Dial	Weight (lbs)
<b>J350</b>	350c	0.82



## TUBING FLARING TOOL

- › A complete flaring tool for tubing 3/16" through 5/8" O.D.
- › Includes multiple hole 45° V-block and flaring yoke with hardened, polished, ball-bearing mounted cone.
- › Ideal for use on copper tubing; not recommended for use on steel applications.

Product #	V-Block Only	Yoke Only	Weight (lbs)
<b>J351</b>	351V	351Y	0.82



## 9 BLADE STANDARD FEELER GAUGE SET

Product #: **J000A**

- › Contains 9 short 3 inch blades in steel holder.
- › Sizes: .003", .004", .005", .006", .008", .010", .012", .015", .018".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.07

**INCH** 



## 15 BLADE METRIC FEELER GAUGE SET

Product #: **J00MM15**

- › 1/2" x 3" metric blades in steel holder.
- › Sizes: 0.06 mm, 0.07 mm, 0.08 mm, 0.10 mm, 0.15 mm, 0.20 mm, 0.25 mm, 0.30 mm, 0.35 mm, 0.40 mm, 0.45 mm, 0.50 mm, 0.55 mm, 0.60 mm, 0.70 mm.
- › Weight (lbs): 0.13

**MM** 



## 25 BLADE MASTER FEELER GAUGE SET

Product #: **J000AA**

- › 1/2" x 3" blades in steel holder.
- › Sizes: .0015" thru .040" except .019".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.19

**INCH** 



## 25 BLADE METRIC FEELER GAUGE SET

Product #: **J00MM25**

- › 1/2" x 3" metric blades in steel holder.
- › Sizes: 0.04 mm, 0.05 mm, 0.06 mm, 0.07 mm, 0.08 mm, 0.09 mm, 0.10 mm, 0.15 mm, 0.20 mm, 0.25 mm, 0.30 mm, 0.35 mm, 0.40 mm, 0.45 mm, 0.50 mm, 0.55 mm, 0.60 mm, 0.65 mm, 0.70 mm, 0.75 mm, 0.80 mm, 0.85 mm, 0.90 mm, 0.95 mm, 1.00 mm.
- › Weight (lbs): 0.22

**MM** 



## 22 BLADE STEP CUT FEELER GAUGE SET

Product #: **J000N**

- › "Go / no-go" 1/2" x 3-5/16" blades in steel holder.
- › Each blade has two different thicknesses.
- › Sizes: .004/.006", .005/.007", .006/.008", .007/.009", .008/.010", .009/.011", .010/.012", .011/.013", .012/.014", .013/.015", .014/.016", .015/.017", .016/.018", .017/.019", .018/.020", .019/.021", .020/.022", .021/.023", .022/.024", .023/.025", .024/.026", .025/.027".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.19

**INCH** 





### 11 BLADE BENT FEELER GAUGE SET

Product #: J000M

- › 1/2" x 4" blades with a 1" bend in steel holder.
- › Sizes: .006", .008", .010", .011", .012", .013", .014", .015", .018", .019", .020".
- › Blades etched with both decimal size and metric equivalent.
- › Blades are offset at a right angle to help protect hands from a hot manifold while setting an overhead valve.
- › Weight (lbs): 0.13

INCH 



### 12 BLADE LONG FEELER GAUGE SET

Product #: J000SL

- › 1/2" x 12" blades in steel holder.
- › Sizes: .0015", .002", .003", .004", .005", .006", .008", .010", .012", .014", .015", .020".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.30

INCH 



### 25 BLADE LONG FEELER GAUGE SET

Product #: J000TL

- › 1/2" x 12" blades in steel holder.
- › Sizes: .0015", .002", .003", .004", .005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .025", .027", .030", .040".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.72

INCH 



### 6 BLADE NON-MAGNETIC FEELER GAUGE SET

Product #: J000BR

- › Contains non-magnetic brass feeler blades for checking the air gap in electronic ignition systems for all weather conditions.
- › 1/2" x 3" blades in steel holder.
- › Sizes: .006", .008", .010", .012", .014", .016".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.08

INCH 

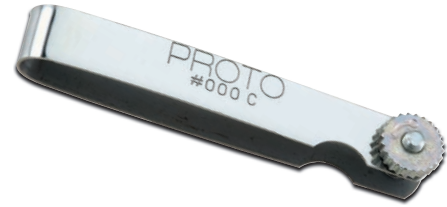


FEELER GAUGE SETS

## SHORT BLADE HOLDER

**Product #: J000C**

- › Large enough to accommodate all 26 short blades.
- › Weight (lbs): 0.05



## SHORT BLADE FEELER GAUGES

Product #	Blade Thickness (in)	Weight (lbs)
J0015	0.0015	0.01
J002	0.002	0.01
J003	0.003	0.01
J004	0.004	0.04
J005	0.005	0.01
J006	0.006	0.01
J009	0.009	0.01
J010	0.010	0.02



## LONG BLADE FEELER GAUGES

Product #	Blade Thickness (in)	Weight (lbs)
J002L	0.002	0.01
J004L	0.004	0.01
J005L	0.005	0.01



## 10 BLADE IGNITION FEELER GAUGE SET

**Product #: J000D**

- › 1/4" x 1-3/4" blades in steel holder.
- › Sizes: .013", .015", .017", .018", .020", .025", .030", .032", .035", .040".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.06

**INCH**



## 16 BLADE OVERHEAD VALVE FEELER GAUGE SET

**Product #: J000R**

- › 1/2" wide bent gauges for setting overhead valves.
- › Sizes: .009", .010", .011", .014", .015", .016", .017", .018", .019", .020", .021", .023", .024", .025", .026", .027".
- › Blades are bent at a 45° angle to help protect hands from a hot manifold while setting an overhead valve.
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.25

**INCH**





## HIGH ENERGY SPARK PLUG GAP GAUGE SET

Product #: **J000J**

- › For use in setting gaps and spark plugs with high energy ignition systems.
- › Includes blade holder, electrode bender and six bent wire gauges in sizes .044", .045", .050", .054", .060", .080".
- › Gauges marked with both decimal size and metric equivalent.
- › Weight (lbs): 0.08

**INCH** 



## SPARK PLUG GAP GAUGE SET

Product #: **J000K**

- › Spark plug electrode bender and eight bent wire gauges in sizes .020", .022", .025", .027", .028", .030", .035", .040".
- › Gauges marked with both decimal size and metric equivalent.
- › Weight (lbs): 0.07

**INCH** 



## FLEXIBLE RETRIEVING & HOLDING TOOLS

- › Designed to position or retrieve small objects.
- › Spring-loaded plunger actuates jaws at end of flexible casing.

Product #	Overall Length (in)	Weight (lbs)
<b>J2344</b>	13-1/2	0.19
<b>J2345</b>	23-1/2	0.26



## FLEXIBLE MAGNETIC RETRIEVING TOOLS

- › Retrieves small objects from hard-to-reach places.
- › Push button allows reaching an object before energizing the magnet.

Product #	Lift Power (lbs)	Overall Length (in)	Weight (lbs)
<b>J2377</b>	1.50	19-1/2	0.27
<b>J2378</b>	3.00	24-1/2	0.37



## POCKET MAGNETIC RETRIEVING TOOLS

- › J2375 includes versatile telescoping handle and all-angle ball joint.
- › J2376A has an aluminum head that contains a neodymium magnet that can lift up to 1-1/2 lbs, all angle ball joint, and a pocket clip.

Product #	Overall Length (in)	Weight (lbs)
<b>J2375</b>	16-3/4 to 26-3/4	0.40
<b>J2376A</b>	8	0.08



J2375



J2376A

## INSPECTION MIRRORS

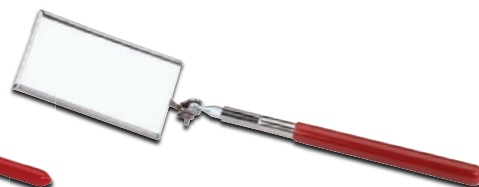
- › Versatile all-angle ball joint.
- › Features telescoping handle (J2372 and J2373).
- › With pocket clip (J2373).



J2374



J2371



J2373

Product #	Mirror Shape	Mirror Size (L x W in)	Mirror Diameter (in)	Overall Length (in)	Weight (lbs)
J2370	Circular	-	7/8	7-1/2	0.08
J2374	Circular	-	1-1/4	8	0.09
J2372	Circular	-	2-1/4	10 to 14	0.25
J2371	Oval	1 x 2	-	8-3/4	0.08
J2373	Rectangular	2-1/8 x 3-1/2	-	11-1/4 to 15-1/2	0.30



## LONG REACH INSPECTION MIRRORS



J2373XL



J2370XL

Product #	Mirror Shape	Mirror Diameter (in)	Overall Length (in)	Weight (oz)	Replacement Mirror
J2370XL	Circular	7/8	8.5 - 30.25	1.3	J2370XLR
J2372XL	Circular	2-1/4	6.5 - 36.375	3.8	J2372XLR
J2374XL	Circular	1-1/4	6.5 - 35	3.8	J2374XLR
J2382XL	Circular	3-1/4	6.5 - 29.5	4.5	J2382XLR
J2383XL	Circular	1-1/4	5.75 - 27.25	1.5	J2374XLR
J2373XL	Rectangular	2-9/16 X 3-3/4	6.75 - 29.75	4.0	J2373XLR

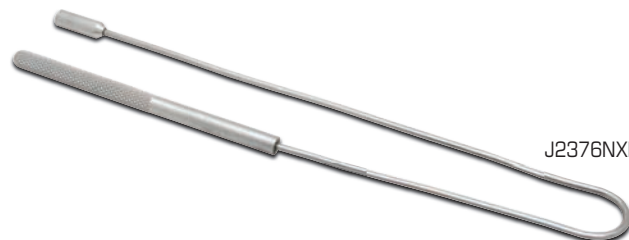


## LONG REACH MAGNETIC PICKUP TOOLS



J2375XL

Product #	Type	Overall Length (in)	Max. Lift (lbs)	Weight (oz)
J2375XL	-	5.5 - 25.5	1.5	1.2
J2376XL	-	7.25 - 33.75	3.5	2.8
J2377XL	Flexible	29	5	4.3
J2378XL	-	8.25 - 30.25	5	1.9
J2379XL	-	8.25 - 30.25	16	3.9



J2376NXL





## 10 PIECE SCREW EXTRACTOR SET

**Product #:** J9500B

- › Drive into end of broken pipe or fitting.
- › Use tap holder or wrench on extractor to turn out broken part.
- › Size stamped on extractor refers to drill bit size to be used with that extractor.

Contents	Description	Overall Length (in)
J9521	Screw, Extractor 1/8"	2-5/16
J9522	Screw, Extractor 3/16"	2-5/8
J9523	Screw, Extractor 15/64"	2-7/8
J9524	Screw, Extractor 5/16"	3
J9525	Screw, Extractor 3/8"	3-1/4
J9525B	Screw, Extractor 15/32"	3-7/8
J9526	Screw, Extractor 9/16"	4-1/4
J9527	Screw, Extractor 21/32"	4-7/8
J9528	Screw, Extractor 13/16"	5-3/8
J9529	Screw, Extractor 1-1/16"	5-1/2

Weight (lbs): 4.50



SCREW EXTRACTORS

## 5 PIECE SCREW EXTRACTOR SET

**Product #:** J9500A

- › Drive into end of broken pipe or fitting.
- › Use tap holder or wrench on extractor to turn out broken part.
- › Size stamped on extractor refers to drill bit size to be used with that extractor.

Contents	Description	Overall Length (in)
J9521	Screw, Extractor 1/8"	2-5/16
J9522	Screw, Extractor 3/16"	2-5/8
J9523	Screw, Extractor 15/64"	2-7/8
J9524	Screw, Extractor 5/16"	3
J9525	Screw, Extractor 3/8"	3-1/4
J25TR49C	Tool Roll 5 Pockets	6-3/32

Weight (lbs): 0.28



## SCREW EXTRACTORS

- › Drive into end of broken pipe or fitting.
- › Use tap holder or wrench on extractor to turn out broken part.
- › Size stamped on extractor refers to drill bit size to be used with that extractor.



Product #	U.S.S. (in)	Drill Size (in)	Diameter Minimum (in)	Diameter Maximum (in)	Overall Length (in)	Weight (lbs)
J9521	1/4, 5/16	1/8	1/8	3/16	2-5/16	0.02
J9522	3/8	3/16	11/64	3/16	2-5/8	0.02
J9523	7/16	15/64	13/64	1/4	2-7/8	0.05
J9524	1/2, 9/16	5/16	19/64	5/16	3	0.07
J9525	5/8	3/8	11/32	3/8	3-1/4	0.12
J9525B	3/4	15/32	1/8	1/8	3-7/8	0.18
J9526	7/8	9/16	1/2	1/2	4-1/4	0.29
J9527	1, 1-1/8	21/32	19/32	5/8	4-7/8	0.47
J9528	1-1/4, 1-3/8	13/16	23/32	3/4	5-3/8	0.72
J9529	1-1/2	1-1/16	31/32	1	5-1/2	1.30



## 10 PIECE BOLT EXTRACTOR SOCKET SET

Product #: J69X00

- › Proto® Bolt Extractor Sockets make it easy to remove rusted, rounded, or damaged nuts and bolts.
- › The working end has a helical shaped flute to help grip rounded fasteners, round head bolts, and pan head screws.
- › Proto® Bolt Extractor Sockets can be used in combination with other drive tools (such as ratchets, adjustable wrenches, sockets, or combination wrenches) to help reach fasteners in difficult locations.
- › Through-hole design helps gain access to fasteners at the end of long bolts or studs.
- › Can be used on SAE or metric fasteners.
- › 3/8" Drive size.



Description	Drive End Outside Diameter (in)	Nut End Outside Diameter (in)	Nut Depth (in)	Overall Length (in)	Weight (lbs)
Extractor, Socket 7 mm, 1/4", 9/32"	7/16	11/16	9/16	1-1/16	0.05
Extractor, Socket 8 mm, 5/16"	31/64	11/16	9/16	1-1/16	0.05
Extractor, Socket 9 mm, 11/32"	17/32	11/16	33/64	1-1/16	0.06
Extractor, Socket 3/8"	9/16	11/16	33/64	1-1/16	0.06
Extractor, Socket 10 mm, 13/32"	19/32	11/16	33/64	1-1/16	0.06
Extractor, Socket 11 mm, 7/16"	21/32	11/16	33/64	1-1/16	0.07
Extractor, Socket 12 mm, 15/32"	11/16	3/4	33/64	1-1/16	0.08
Extractor, Socket 13 mm, 1/2"	3/4	3/4	33/64	1-1/16	0.09
Extractor, Socket 14 mm, 9/16"	11/16	7/8	33/64	1-1/16	0.09
Extractor, Socket 15 mm, 16 mm, 5/8"	59/64	15/16	33/64	1-1/16	0.10

Weight (lbs): 0.86



### FEATURES AND BENEFITS – BOLT EXTRACTORS

- › 18-30 teeth in a hexagonal configuration help grip rounded hexagonal fasteners, round head bolts and pan head screws.
- › Low profile design helps gain access to fasteners in tight spaces.
- › The non-working end can be turned with wrenches or sockets.
- › Can be used in combination with other drive tools (such as extensions, universal joints or ratchets with short arc swings) to help reach fasteners in difficult locations.
- › Sizes range from 1/4" - 5/8" and 7 - 16 mm. Each socket can turn multiple fastener sizes.
- › Can be used on fractional or metric fasteners.



- › Easily remove rusted, rounded or damaged nuts and bolts.
- › Through-hole design helps gain access to fasteners at the end of long bolts or studs.



### 3/8" DRIVE 13 PIECE HAND IMPACT DRIVER SET

Product #: J7099A

- › Designed to loosen hard to turn bolts and nuts.
- › Hand impact driver has heavy-duty spring for added torque.
- › Popular interchangeable bits are packaged in plastic blow-molded box for easy storage.



Contents	Description	Overall Length (in)
J7099	Driver, Hand Impact 3/8" DR 5-1/2"	5-1/2
J60002	Bit, Insert #1 Phillips 1/4" Hex	1
J60008	Bit, Insert #2 Phillips 1/4" Hex	1
J60020	Bit, Insert #3 Phillips 1/4" Hex	1
J60202	Bit, Insert 3/16" Slotted 1/4" Hex	1
J60208	Bit, Insert 9/32" Slotted 1/4" Hex	1
J60050	Bit, Insert #1 Phillips 5/16" Hex	1-1/4
J60052	Bit, Insert #2 Phillips 5/16" Hex	1-1/4
J60054	Bit, Insert #3 Phillips 5/16" Hex	1-1/4
J60256	Bit, Insert 3/16" Slotted 5/16" Hex	1-1/2
J60262	Bit, Insert 9/32" Slotted 5/16" Hex	1-1/2
J6930	Bit, Holder Power 3/8" DR 5/16" Hex	1-5/16
J6931	Bit, Holder Power 3/8" DR 1/4" Hex	1-1/4

Weight (lbs): 2.36



IMPACT DRIVER SET & SPECIALTY PULLERS

### BATTERY CABLE & SMALL BEARING PULLER

- › Uses toggle-type action to grip onto all standard post battery terminals.
- › Pulls small bearings and gears with 1" reach and spread.

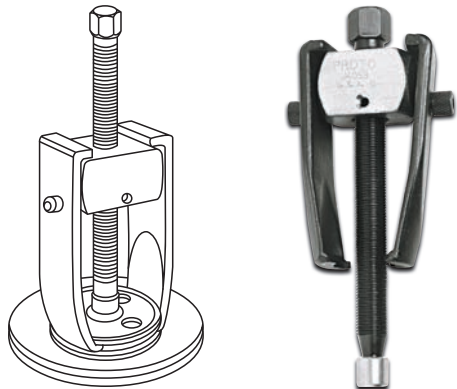


Product #	Weight (lbs)
J4041	0.65



### PULLEY PULLER

- › For removing single and two-groove pulleys from alternators and power steering pumps.
- › Two position yoke permits pulling bearings on both standard and heavy-duty alternators.



Product #	Weight (lbs)
J4053	2.10

## CLOSE QUARTERS PILOT BEARING PULLER

- › Designed to pull flywheel pilot bearings with inside diameters 1/2" to 1-1/2".
- › Removes bearings and bushings from starters, generators, magnetos, and small electric motors.



Product #	Weight (lbs)
J4059	2.30



## 10-WAY PROTO-EASE™ ADVANTAGE SLIDE HAMMER PULLER SET

Product #: J5040

Description	Qty.
Hex Jam Nut (5/16"-24)	3
Hex Jam Nut (5/8"-18)	1
Hex Head Cap Screw (5/16"-24)	3
Puller Head	1
Adjusting Cone	1
Forcing Screw	1
2-Way Crossarm	1
Pulling Hook	1
Pulling Adapter-Machine	1
Pilot Bearing Puller Jaw	3
5 lbs Slide Hammer	1
Puller Arm	1
Medium Puller Jaw	3
Long Puller Jaw	3
Self Tapping Screw	1
Adapter For Adjustable Jaw Wrench	1
Retainer	1
Shank and Tee Bar Assembly	1
Sleeve (5/8"-18)	1
Forcing Screw	1
Front Hub Remover	1
Blow-Molded Case	1

Weight (lbs): 25.00



- › Slide hammer puller set packaged in a convenient plastic blow-molded carrying/storage case.



## REVERSIBLE JAW SLIDE HAMMER PULLER

Product #: J5049

- › Versatile puller which will accomplish many pulling jobs involving gears, bearings, outer races, grease retainers, oil seals, etc.
- › Either two or three puller jaws may be used to handle "inside" pulling jobs such as bearing cups and outer racers, as well as regular "outside" pulling jobs.
- › The 5 lbs slide hammer can be removed and used independently.
- › Overall Length: 27".

2-Jaw Spread				3-Jaw Spread			
Inside		Outside		Inside		Outside	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1-1/4"	3-1/2"	1"	4-1/2"	1-1/2"	4-1/4"	1-1/2"	4-1/2"

Weight (lbs): 11.00

