

SPECIALTY TOOLS

Meeting the needs of automotive customers and MRO organizations, no toolbox is complete without an assortment of specialty items. Blackhawk™ by Proto® includes popular puller configurations, automotive feeler gauges; as well as engine, brake and wheel tools. A range of cleaning brushes, scrapers and hacksaws round out the category.



TAPERED BEARING SPLINTER**Item #: ET-1207**

- Designed for the removal of bearings, thin-faced gears and cone-shaped gears.
- Beveled edge allows insertion behind pulleys, gears, or bearings where space limitations preclude the use of a standard jaw puller.
- Max Reach: 4-1/4"
- Weight (lbs): 5.07

**BODY DENT PULLER****Item #: ET-1710**

- Removes auto body creases and dents without disturbing upholstery, headliners and body hardware.
- Removing inner panels of dented area is also eliminated.
- Punch or drill hole in dented panel, insert self-threading screw or hook and with a few raps of the sliding hammer return metal to its original shape.
- Sturdy plastic handle and black oxide body.
- Overall Length (in): 13
- Weight (lbs): 3.72

**BATTERY TERMINAL & GENERATOR BEARING PULLER****Item #: ET-1071A**

- Designed to engage either below or on the sides of the cable terminals and lift even badly corroded terminals with no harm to the battery case or posts.
- The swivel allows its use as a generator bearing puller and magneto gear puller.
- Weight (lbs): 0.64

**STEERING WHEEL PULLER****Item #: ET-1328A**

- Any steering wheel that is tapped to take cap screws can be easily removed with this Steering Wheel Puller, for removing flanges, pulleys, etc.
- For use over a hollow shaft, a nipple is supplied to provide a base for the screw.
- Also includes adapters for Buick® and Chrysler® products (not shown.)
- Weight (lbs): 2.25





6 BLADE NON-MAGNETIC FEELER GAUGE

Item #: MT-1020-1

- Contents: 6 Blades
- SAE (Metric) Sizes:
.006" (.15 mm), .008" (.20 mm), .010" (.25 mm),
.012" (.30 mm), .014" (.356 mm), .016" (.406 mm)



16 BLADE FEELER GAUGE

Item #: MT-1041

- Services domestic and foreign cars.
- Contents: 16, 1.75" x 0.25" Blades
- Sizes:
.011", .012", .013", .014", .015", .016", .017", .018",
.019", .020", .022", .024", .025", .028", .030", .035"



6 WIRE HIGH-ENERGY FEELER GAUGE

Item #: MT-1021A

- For large gap, high energy ignition systems.
- Contains 6 wire gauges and a gap setting tool.
- Wire ends angled for use with electrodes set below the shell.
- SAE (Metric) Sizes:
.044" (1.12 mm), .045" (1.15 mm), .050" (1.25 mm),
.054" (1.37 mm), .060" (1.52 mm), .080" (2.03 mm)



15 BLADE GO-NO-GO GAUGE

Item #: MT-1043

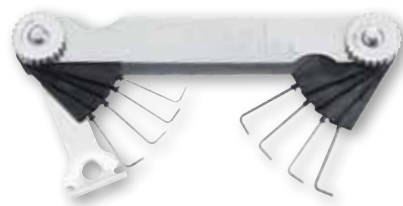
- Contents: 15, 3.31" x 0.5" Blades
- Sizes: .006" (.152 mm) to .020" (.508 mm) (See chart for full details.)



REGULAR SPARK PLUG WIRE GAUGE

Item #: MT-1040-1

- Contents: 1 Electrode Bender, 8 Wire Gauges
- Sizes: .020", .025", .028", .030", .032", .034", .035", .040"



| Size Reference Chart | | | |
|----------------------|-----------------|-------------|-----------------|
| SAE | Metric | SAE | Metric |
| .002"-.003" | .050 mm-.076 mm | .014"-.016" | .356 mm-.406 mm |
| .003"-.004" | .076 mm-.101 mm | .015"-.017" | .381 mm-.432 mm |
| .004"-.006" | .101 mm-.152 mm | .016"-.018" | .406 mm-.457 mm |
| .005"-.007" | .127 mm-.178 mm | .017"-.019" | .432 mm-.483 mm |
| .006"-.008" | .152 mm-.203 mm | .018"-.020" | .457 mm-.508 mm |
| .007"-.009" | .177 mm-.229 mm | .019"-.021" | .483 mm-.533 mm |
| .008"-.010" | .203 mm-.254 mm | .020"-.022" | .508 mm-.559 mm |
| .009"-.011" | .229 mm-.279 mm | .021"-.023" | .533 mm-.584 mm |
| .010"-.012" | .254 mm-.305 mm | .022"-.024" | .559 mm-.610 mm |
| .011"-.013" | .279 mm-.330 mm | .023"-.025" | .584 mm-.635 mm |
| .012"-.014" | .305 mm-.356 mm | .024"-.026" | .610 mm-.660 mm |
| .013"-.015" | .330 mm-.381 mm | .025"-.027" | .635 mm-.686 mm |



22 BLADE GO-NO-GO IGNITION FEELER GAUGES**Item #: MT-1022**

- Contents: 22, 3.31" x 0.5" Blades
- Sizes: .004" (.101 mm) to .025" (.635 mm)

**25 BLADE ALL-PURPOSE FEELER GAUGE****Item #: MT-1049**

- Contents: 25, 3.31" x 0.5" Blades
- Sizes: .0015", .002", .003", .004", .005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .018", .020", .022", .024", .025", .028", .030", .032", .035"

**Size Reference Chart**

| SAE | Metric | SAE | Metric |
|-------------|-----------------|-------------|-----------------|
| .002"-.003" | .050 mm-.076 mm | .014"-.016" | .356 mm-.406 mm |
| .003"-.004" | .076 mm-.101 mm | .015"-.017" | .381 mm-.432 mm |
| .004"-.006" | .101 mm-.152 mm | .016"-.018" | .406 mm-.457 mm |
| .005"-.007" | .127 mm-.178 mm | .017"-.019" | .432 mm-.483 mm |
| .006"-.008" | .152 mm-.203 mm | .018"-.020" | .457 mm-.508 mm |
| .007"-.009" | .177 mm-.229 mm | .019"-.021" | .483 mm-.533 mm |
| .008"-.010" | .203 mm-.254 mm | .020"-.022" | .508 mm-.559 mm |
| .009"-.011" | .229 mm-.279 mm | .021"-.023" | .533 mm-.584 mm |
| .010"-.012" | .254 mm-.305 mm | .022"-.024" | .559 mm-.610 mm |
| .011"-.013" | .279 mm-.330 mm | .023"-.025" | .584 mm-.635 mm |
| .012"-.014" | .305 mm-.356 mm | .024"-.026" | .610 mm-.660 mm |
| .013"-.015" | .330 mm-.381 mm | .025"-.027" | .635 mm-.686 mm |

BRAKE SPRING PLIERS**Item #: PT-1262**

- Comes with an adapter for lifting anchor pins.
- Length (in): 14
- Weight (lbs): 1.03

**HOLDER RETRIEVER - FULLY FLEXIBLE****Item #: ZT-1180**

- For starting a nut or screw in an inaccessible spot or retrieving parts that fall into hard-to-reach places.
- Length (in): 13-1/2
- Weight (lbs): 0.11

**TELESCOPING MAGNET TOOL****Item #: ZT-1193**

- Magnetic end for retrieving tools, parts or fasteners from hard-to-reach places.
- The end contains a powerful permanent magnet and is arranged on a pivot that can be rotated 120° right or left.
- The aluminum shaft with vinyl insulated handle provides a firm, secure grip.
- Extends from a telescoped 16-1/2" length to 27" fully extended.
- Length (in): 16-1/2 - 27
- Weight (lbs): 0.36





FLEXIBLE MAGNET TOOL

Item #: ZT-1197

- Magnetic end for retrieving, flexible shaft for hard-to-reach places.
- Completely nickel plated.
- Flexible shaft.
- Length (in): 18
- Weight (lbs): 0.16



INSPECTION MIRROR

Item #: ST-1250

- For fast visual inspection of all hidden areas.
- The double ball joint permits easy viewing at 360°.
- Mirror telescopes to 14".
- Specially designed non-rotating hex rod helps prevent mirror from swinging out of alignment.
- Mirror has a vinyl insulated handle.
- Length (in): 10-1/4 to 14-1/64
- Weight (lbs): 0.24



TUBING BENDER

Item #: ZT-1125

- Quickly and easily bends 3 sizes (3/16", 1/4", 5/16") of steel or 3/8" copper tubes.
- Bends up to 180°.
- Nylon form prevents kinking.
- Length (in): 6
- Weight (lbs): 0.92



STUD EXTRACTOR

Item #: 49980

- Extractor will remove or install 1/4" to 3/4" stud sizes.
- Constructed to permit gripping wheel to lay flush on flat surfaces to engage stud at lowest point if required without damage to stud threads.
- Drive socket extends through entire housing to prevent binding.
- Weight (lbs): 1.11



SCREW EXTRACTOR SET

Item #: DT-55

- Hand forged to ensure correct angle and grip.
- Used to remove broken studs, set screws, pipe and alemite fittings.



| Contents | Bolt Diameter (in) | Drill Size (in) | Length (in) | Weight (lbs) |
|----------|--------------------|-----------------|-------------|--------------|
| DT-2601 | 1/4 to 5/16 | 1/8 | 2-3/8 | 0.02 |
| DT-2602 | 3/8 | 3/16 | 2-11/16 | 0.03 |
| DT-2603 | 7/16 | 15/64 | 2-15/16 | 0.05 |
| DT-2604 | 1/2 to 9/16 | 5/16 | 3-1/8 | 0.08 |
| DT-2605 | 5/8 | 3/8 | 3-3/8 | 0.11 |



CARBON CLEANING END BRUSH**Item #: ZT-1301**

- Removes hard carbon deposits as well as rust and paint from metal surfaces.
- Use with 1/4" drill for general metal cleaning.
- Safety glasses and protective clothing are recommended while using this brush.
- Diameter Face: 0.75"
- Diameter Shank: 0.25"
- Max. Safe Free Speed: 20,000 RPM
- Weight (lbs): 0.18

**HEAVY-DUTY KNOT END CLEANING BRUSH****Item #: ZT-1300**

- Heavy gauge wire twisted into strong knot ends for tough use.
- Use with 1/4" drill or flexible shaft equipment.
- Safety glasses and protective clothing are recommended while using this brush.
- Diameter Face: 1.13"
- Diameter Shank: 0.25"
- Max. Safe Free Speed: 20,000 RPM
- Weight (lbs): 0.28

**HEAVY-DUTY SCRATCH BRUSH WITH SCRAPER****Item #: ZT-1312**

- Thick clusters of heavy gauge wire for heavy-duty use.
- 16 rows, 4 rows wide.
- 1-3/16" long wires, built-in steel scraper.
- Length (in): 10
- Weight (lbs): 0.38

**STEEL WIRE SCRATCH BRUSH****Item #: ZT-1310**

- A sturdy brush with 19 rows, 3 rows wide.
- 1-3/16" long wires.
- Length (in): 14
- Weight (lbs): 0.33

**CARBON SCRAPER****Item #: ZT-1111**

- Length (in): 7-1/4
- Weight (lbs): 0.14

**DEGREASING SCRAPER****Item #: ZT-1112**

- Length (in): 7-1/4
- Weight (lbs): 0.15

**GASKET SCRAPER****Item #: ZT-1102**

- Length (in): 11
- Weight (lbs): 0.28



Blackhawk
BY PROTO



DELUXE ADJUSTABLE HACKSAW FRAME

Item #: FT-1204

- Our finest heavy-duty steel hacksaw frame guards against breakage of high-speed blades.
- Impact-resistant pistol grip handle.
- Adjustable frame locks on 10" and 12" blades.
- Length (in): 17-1/2
- Weight (lbs): 1.39



10 PIECE HIGH SPEED HACKSAW BLADES

Item #: FT-1103

- A molybdenum high speed steel blade of superb quality and durability.
- Will cut nickel, high carbon steel and other tough alloys.
- Width (in): 1/2
- Thickness (in): 1/32
- Teeth Per Inch: 18
- Length (in): 12-1/2
- Weight (lbs): 0.38



ADJUSTABLE HACKSAW FRAME

Item #: FT-1202

- Handy adjustable hacksaw frame is ideal for general use.
- Adjustable frame locks on 10" and 12" blades.
- Length (in): 16-5/8
- Weight (lbs): 1.25



10 PIECE HACKSAW BLADES

Item #: FT-1124

- It is sometimes advisable to use these blades where cutting is to be done on surfaces that are not extremely hard and where the possibility of flexing occurs.
- Width (in): 1/2
- Thickness (in): 1/32
- Teeth Per Inch: 24
- Length (in): 12-1/2
- Weight (lbs): 0.40

