

## Stud Removers

- Tapered collets thread onto the stud, even if only a few threads are exposed
- Tightening the housing bolt draws the collet into the housing and clamps the collet onto the stud
- Tools reduce the chance of damage to stud threads
- Avoid bottoming or shouldering the studs, shearing or damaging the stud or workpiece

## Stud Remover Set Components

Set Contains:

CJ515B  
CJM515B

Stock No.	Description		
CJ500-1	CJ500 Dowel Collet Housing	•	•
CJ500-3	1/4"-20 Taper Collet	•	
CJ500-4	1/4"-28 Taper Collet	•	
CJ500-5	5/16"-18 Taper Collet	•	
CJ500-6	5/16"-24 Taper Collet	•	
CJ500-7	3/8"-16 Taper Collet	•	
CJ500-8	3/8"-24 Taper Collet	•	
CJ500-9	7/16"-14 Taper Collet	•	
CJ500-10	7/16"-20 Taper Collet	•	
CJ500-11	1/2"-13 Taper Collet	•	
CJ500-12	1/2"-20 Taper Collet	•	
CJ500-13	9/16"-12 Taper Collet	•	
CJ500-14	9/16"-18 Taper Collet	•	
CJ500-15	5/8"-11 Taper Collet	•	
CJ500-16	5/8"-18 Taper Collet	•	
CJ500-17	Number 10-24 Taper Collet		
CJ500-18	Number 10-32 Taper Collet		
CJ500-30	M6-1.00 Taper Collet		•
CJ500-33	M7-1.00 Taper Collet		•
CJ500-36	M8-1.00 Taper Collet		•
CJ500-37	M8-1.25 Taper Collet		•
CJ500-39	M9-1.00 Taper Collet		•
CJ500-40	M9-1.25 Taper Collet		•
CJ500-42	M10-1.25 Taper Collet		•
CJ500-43	M10-1.50 Taper Collet		•
CJ500-48	M12-1.25 Taper Collet		•
CJ500-49	M12-1.50 Taper Collet		•
CJ500-54	M14-1.50 Taper Collet		•
CJ500-55	M14-2.00 Taper Collet		•
CJ500-60	M16-1.50 Taper Collet		•
CJ500-61	M16-2.00 Taper Collet		•
CJ500H1	3/8" Hex Collet		
CJ500H2	7/16" Hex Collet		
CJ500H4	9/16" Hex Collet		



CJ515B



CJM515B



CJ500-1

**WARNING**



- Wear safety goggles (user and bystanders).
- Hand use only.
- Read Safety Precautions on pages W1-W4

# EXTRACTORS: STUD REMOVERS



**MSK16**

## Stud Removers

Set Contains:

*MSK16*

Stock No.	Description	
MSK-0820N	Install Tool 1/4" x 20 TPI (Blue-Point®)	•
MSK-0820R	Remove Tool 1/4" x 20 TPI (Blue-Point®)	•
MSK-0828N	Install Tool 1/4" x 28 TPI (Blue-Point®)	•
MSK-0828R	Remove Tool 1/4" x 28 TPI (Blue-Point®)	•
MSK-1613N	Install Tool 1/2" x 13 TPI (Blue-Point®)	•
MSK-1613R	Remove Tool 1/2" x 13 TPI (Blue-Point®)	•
MSK-1620N	Install Tool 1/2" x 20 TPI (Blue-Point®)	•
MSK-1620R	Remove Tool 1/2" x 20 TPI (Blue-Point®)	•
MSK-1812N	Install Tool 9/16" x 12 TPI (Blue-Point®)	•
MSK-1812R	Remove Tool 9/16" x 12 TPI (Blue-Point®)	•
MSK-1818N	Install Tool 9/16" x 18 TPI (Blue-Point®)	•
MSK-1818R	Remove Tool 9/16" x 18 TPI (Blue-Point®)	•
MSK-2011N	Install Tool 5/8" x 11 TPI (Blue-Point®)	•
MSK-2011R	Remove Tool 5/8" x 11 TPI (Blue-Point®)	•
MSK-2018N	Install Tool 5/8" x 18 TPI (Blue-Point®)	•
MSK-2018R	Remove Tool 5/8" x 18 TPI (Blue-Point®)	•



**MSKMA10**

## Stud Removers

Set Contains:

*MSKMA10*

Stock No.	Description	
MSK-M12125N	M12 x 1.25 Install Tool	•
MSK-M12125R	M12 x 1.25 Remove Tool	•
MSK-M14125N	M14 x 1.25 Install Tool	•
MSK-M14125R	M14 x 1.25 Remove Tool	•
MSK-M1415N	M14 x 1.5 Install Tool	•
MSK-M1415R	M14 x 1.5 Remove Tool	•
MSK-M1620N	M16 x 2.0 Install Tool	•
MSK-M1620R	M16 x 2.0 Remove Tool	•
MSK-M8125N	Stud Installer	•
MSK-M8125R	Stud Remover	•



**MSK10**

## Stud Removers

Set Contains:

*MSK10*

Stock No.	Description	
MSK-1018N	Stud Installer	•
MSK-1018R	Stud Remover	•
MSK-1024N	Stud Installer	•
MSK-1024R	Stud Remover	•
MSK-1216N	Stud Installer	•
MSK-1216R	Stud Remover	•
MSK-1224N	Stud Installer	•
MSK-1224R	Stud Remover	•
MSK-1414N	Stud Installer	•
MSK-1414R	Stud Remover	•



**MSKM10**

## Stud Removers

Set Contains:

*MSKM10*

Stock No.	Description	
MSK-M610N	Stud Installer	•
MSK-M610R	Stud Remover	•
MSK-M1825N	M18 x 2.5 Install Tool	•
MSK-M1825R	M18 x 2.5 Remove Tool	•
MSK-M10125N	Stud Installer	•
MSK-M10125R	Stud Remover	•
MSK-M1015N	Stud Installer	•
MSK-M1015R	Stud Remover	•
MSK-M1215N	Stud Installer	•
MSK-M1215R	Stud Remover	•



## Dowel Pin Puller Sets Components

Stock No.	Description	Set Contains:	
		CJ503	CJM503
CJ500-2	CJ500 Stud Collet Housing Assembly	•	•
CJ500-72	1/4" Dowel Pin Collet	•	
CJ500-73	5/16" Dowel Pin Collet	•	
CJ500-74	3/8" Dowel Pin Collet	•	
CJ500-75	7/16" Dowel Pin Collet	•	
CJ500-76	1/2" Dowel Pin Collet	•	
CJ500-77	9/16" Dowel Pin Collet	•	
CJ500-78	5/8" Dowel Pin Collet	•	
CJ500-79	M6 Dowel Pin Collet		•
CJ500-80	M8 Dowel Pin Collet		•
CJ500-81	M10 Dowel Pin Collet		•
CJ500-82	M12 Dowel Pin Collet		•
CJ500-83	M14 Dowel Pin Collet		•
CJ500-84	M16 Dowel Pin Collet		•



CJ500-2

## Dowel Pin Puller Sets

- Collet geometry engineered to grip pins or studs nearly flush with the work surface
- Forwards/backwards compatible with corresponding CG series collets and housings
- Bright and clean nickel-chrome finish creates a corrosion resistant surface that withstands chemicals and solvents for prolonged tool life
- Manufactured from special alloy steel and treated for optimum strength and durability
- Closed cell cross-linked foam for superior performance and durability resists oils, solvents and fuels—easy to clean



CJM503

### CJM503 7 pc Metric Dowel Pin Puller Set

- Includes (6) metric collets 6–16 mm and (1) dowel pin collet housing in a foam organizer

### CJ503 8 pc SAE Dowel Pin Puller Set

- Includes (7) SAE collets 1/4–5/8" and (1) dowel pin collet housing in a foam organizer



CJ503



CJ500P1



CJ500H3



CJ500-20



CJ500-24

## Pipe Nipple and Hex Bolt Collets

Stock No.	Description
CJ500P1	1/8" NPT Collet
CJ500P2	1/4" NPT Collet
CJ500P3	3/8" NPT Collet
CJ500H1	3/8" Hex
CJ500H2	7/16" Hex
CJ500H3	1/2" Hex Collet
CJ500H4	9/16" Hex

## Serrated Collets

- Serrated gripping portions are used to remove unthreaded studs that cannot be removed with standard collets due to the lack of gripping surface
- Avoid bottoming or shouldering the studs to eliminate shearing or damaging the stud or workpiece

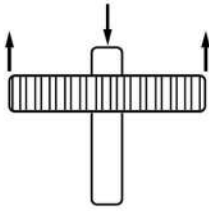
Stock No.	Description
CJ500-20	1/4" Serrated Collet
CJ500-21	5/16" Serrated Collet
CJ500-22	3/8" Serrated Collet
CJ500-23	7/16" Serrated Collet
CJ500-24	1/2" Serrated Collet



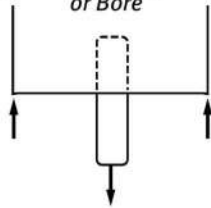
- Wear safety goggles (user and bystanders).
- Hand use only.
- Read Safety Precautions on pages W1–W4

What type of puller do I want to use? What combination will work best?

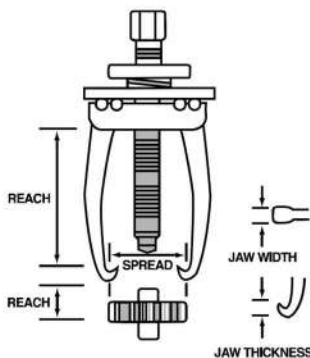
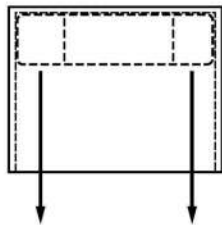
Removing a Gear, Bearing, Pulley, or Other Component from a Shaft



Pulling a Shaft Out of a Housing or Bore



Removing a Bearing or Bushing from a Blind Hole



## Tools to Use

**Jaw-Type Puller:** Two- or three-jaw style, with three jaw being the best choice. Manual or hydraulic with outside jaw positions.

**Push-Pull Puller:** Use male or female adaptors to thread into tapped holes on the components.

**Slide Hammer Puller:** Used on light-duty applications. For use with attachments.

**Bar-Type Puller with Bearing Separator:** Bar type with side rods threaded into the bearing separator provides a “knife edge” to get behind the component or when there is not a good gripping edge.

## Tools to Use

**Push-Pull Puller:** Use male or female adaptors.

**Bar-Type Puller with Bearing Separator:** Used when the housing lacks sufficient surface for puller side rods to bear against.

**Slide Hammer Puller:** Used on light-duty applications. For use with attachments.

**Slide Hammer Puller:** Use with male or female adaptors. See this section for a full listing of compatible adaptors.

## Tools to Use

**Jaw-Type Puller:** For inside jaw positions (inside pulls), a manual or hydraulic jaw-type puller can be used with pressure screw or slide hammer variations.

**Expanded Collet Puller:** The inside diameter should range between 1/4 and 7”.

Pulling can be done with bridge, bar-type yokes or slide hammers.

**Bearing Adaptors with Slide Hammer Puller:** CJ127A, CJ128A and CJ137 bearing adaptors with a CJ97-3A slide hammer should be used in this application.

**Bar-Type Puller with Bearing Separator:** Bar type with side rods threaded into the bearing separator provides a “knife edge” to get behind the components or when there is not a good gripping edge.

## Determine the “Reach” and “Spread” Needed

The puller’s reach must equal or exceed the same distance on the part. The puller’s spread is the width of the part.

### Estimate the Puller Tonnage

Generally, if you already have the correct “reach” and “spread”, you will usually have the proper tonnage. If in doubt, use the next larger size.

## General Rules for Choosing Pullers

**Manual Pullers:** Pressure screw should be at least half the diameter of the shaft on the pulling/pushing job.

**Hydraulic Pullers:** Maximum tonnage capacity (tons) should be 8 to 10 times the diameter (in inches) of the shaft to be pulled or pushed.

## Snap-on® Puller Features

**Anvil Head:** Curved at the top and features a hex design. The curved head provides a striking surface to handle those tough pulling jobs while the hex allows the pressure screw to be easily turned with a standard hex wrench or a socket.

**Spring-Loaded Locking Mechanism:** Snap-on® pullers feature a unique spring tension locking mechanism that allows the puller jaws to easily lock onto the work surface for both “outside” and “inside” pulling applications.

**Two-Position Yoke:** Allows jaws to be easily reversed to accommodate inside or outside pulling situations. Interchangeable yokes accommodate two and three jaw setups. Yokes are heat treated for additional strength and safety.

**One-Piece Jaw Construction:** Provides a stronger, safer jaw. Most competitive puller jaws have holes drilled through them to allow for a bracket attachment. This hole significantly weakens the competitor’s puller jaws.

**Forged Jaws:** Resist breakage, prolong tool life and provide additional strength.

**Replaceable Points:** Center pulling power to prevent cocking. Provide less friction and minimum drag for easier turning of the pressure screw during the pulling process. If damage occurs, simply replace the point and not the entire pressure screw.

**Curved Jaws:** Provide positive grip on the work surface.





## Light-Duty Pullers

Builds pullers

Up to 2-1/2 tons of pulling power 3" diameter capacity for outside pulls

- Easy to use: spring loaded locking mechanism allows the puller jaws to easily lock onto with work surface for both "Inside" and "Outside" pulling applications, reducing the puller slipping off the application—two-handed operation without the use of tools
- Interchangeability: reversible jaw design, two position yokes that accommodate multiple jaw lengths, and spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- Strength and Durability: one-piece jaw construction that does not use pins or bolts, provides a stronger, safer jaw
- Power pressure screws have rolled threads and are heat-treated for strength and durability
- Forged jaws and yokes are heat-treated for max strength and durability

### CJ240 13 pc Light Duty General Purpose Puller Set

- Set includes:
  - (1) CJ243-3 3-Jaw Yoke; (1) CJ240-2 2-Jaw Yoke;
  - (3) CJ240-3 2-1/2" Jaws; (3) CJ240-10 3-1/2" Jaws; (1) CJ243-5 Lock Plate; (1) CJ240-11 Pressure Screw; (1) CJ240-6 Spring and (1) CJ240-7 Adjustable Lock Nut



CJ240

### CJ2400 27 pc Light Duty Manual Interchangeable Master Puller Set

- Set includes:
  - (1) CJ240-11 Pressure Screw; (1) CJ240-3 2-Jaw Yoke; (1) CJ243 3-Jaw Yoke; (3) CJ240-3 2-1/2" Jaws; (1) CJ243-5 Lock Plate; (1) CJ240-6 Spring; (1) CJ240-7 Adjustable Lock Nut; (1) CJ93-1 Slide Screw; (1) CJ125-6 Slide Hammer; (1) CJ93-3-1A Jaw Holder; (2) A78-6D Jaw Pins; (2) A78-4 1-5/8" Jaws; (2) A78-3 2" Jaws; (1) CJ93-4 Double Hook; (1) CJ93-5 Hook; (1) CJ93-6B Body Dent Puller Adaptor; (1) CJ93-7 Stud Puller Adaptor 5/16"-24; (1) CJ93-8 Stud Puller Adaptor 3/8"-24 and (1) CJ107-1A Tapered Screw



CJ2400

### CJ240HMRFR Light Duty General Purpose 2 lb Slide Hammer Set

- 2 lb knurled slide hammer provides maximum transfer force on the part to be removed
- Slide screw threads are standard and interchangeable with many Snap-on® puller yokes
- Slide screw has rolled threads instead of cut threads for optimum strength and durability
- Slide screw is heat-treated for optimum strength and durability
- Industrial finish helps protect against corrosion (slide screw)



CJ240HMRFR

**WARNING**



- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1-W4



# PULLERS: GENERAL PURPOSE INTERCHANGEABLE

GENERAL HAND TOOLS



CJ250



CJ250HMRFR

## Medium-Duty Pullers

Builds pullers:

Medium-duty pullers deliver up to 7-1/2 tons of pulling power, 4-1/2" diameter capacity for outside pulls and from 3/4–8" diameter capacity for inside pulls. CJ652 and CJ250HYD Hydraulic Conversion Sets convert manual pullers to hydraulic power. The manual components of the indicated medium-duty pullers are included in the heavy-duty CJ2500 sets.

### CJ250 13 pc Medium-Duty General Purpose Puller Set

- **Easy to use:** Spring loaded locking mechanism allows the puller jaws to easily lock onto work surface for both "inside" and "outside" pulling applications, preventing the puller from slipping off the application—two-handed operation without the use of tools
- **Interchangeability:** reversible jaw design, two-position yokes that accommodate multiple jaw lengths, spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- **Strength and durability:** One-piece jaw construction that does not use pins or bolts, provides a stronger, safer jaw; power pressure screws are roll threaded and heat-treated for strength and durability; forged jaws and yokes are heat-treated for maximum strength and durability

### CJ250HMRFR General Purpose 2-1/2 lb Slide Hammer Set

- 2-1/2 lb slide hammer provides maximum transfer force on the part to be removed
- Slide screw threads are standard and interchangeable with many Snap-on® puller yokes
- Slide screw has rolled threads instead of cut threads for optimum strength and durability
- Slide screw is heat-treated for optimum strength and durability
- Industrial finish helps protect against corrosion (slide screw)
- Ergonomic handle grip
- Male adaptor adds versatility to the pulling and pushing capabilities of general purpose and bar-type pullers

### CJ652 6-Ton Hydraulic Pump and Ram Set

- Hydraulics allow for smooth controlled loading and unloading
- Provides an even application of force
- Does not require a screw to be turned, compensation for counter rotation not required (non-rotational)
- Hydraulic rams can be used in push or pull direction depending on orientation
- Reduced input effort resulting in easy operation for the user
- Interchangeable tips reduce damage on workpiece and are easily swapped out
- Second "grip" handle allows for use of pump while standing in addition to being able to be used on a table or tool box
- 6' hose allow technician to use hydraulic pullers on lift or in a remote location



CJ652

### CJ250HYD 6-Ton Hydraulic Conversion Add-on

- Includes the 2-Jaw and 3-Jaw hydraulic yokes and hand wheel adaptor
- Add-on to the CJ652 to convert the CJ250 to Hydraulic
- Yokes have through hole for easy pass through of the hydraulic screw
- Chrome/nickel-alloy finish resists rust and corrosion



CJ250HYD

### CJ250-A1310 A1310 Adaptor for CJ250

- Allows use of various drivers and adaptors with CJ250 jaw pullers, giving the technician the flexibility to interchange with tools they already own
- Adaptor assists in maintaining square alignment for ideal force application
- Allows technician to assemble their own specialized tool configuration to service difficult or uncommon jobs with ease
- Works with most Snap-on® 5/8"-18 pressure screws
- Works with A1310B and A1310SB bearing race and seal driver disks; A157, A257, A160M and A261M bushing driver disks and BJP1 cups utilizing the A1310SB-BJP1 adaptor



CJ250-A1310



## Heavy-Duty

Stock No.	Description	Maximum Spread, inches (mm) outside	Maximum Spread, inches (mm) inside	Jaw Configuration
CJ2500SB	43 pc Heavy Duty Manual Interchangeable Master Puller Set (with Tool Control Board, Wall Cabinet)	1-1/2-13-7/8 (38-352)	1-1/2-11-1/2 (38-292)	2 and 3 Jaw
CJ2500S	43 pc Heavy Duty Manual Interchangeable Master Puller Set (with Tool Control Board)	1-1/2-13-7/8 (38-352)	1-1/2-11-1/2 (38-292)	2 and 3 Jaw
CJ2500	Heavy-Duty Manual Interchangeable Master Puller Set	1-1/2-13-7/8 (38-352)	1-1/2-11-1/2 (38-292)	2 and 3 Jaw
CJ270	13 pc Heavy-Duty General Purpose Puller Set	10 (254)	2-1/2-7-1/2; 3-8 (63.5-190.5; 76-203)	2 and 3 Jaw



### CJ270 13 pc Heavy-Duty General Purpose Puller Set

- **Easy to use:** Spring loaded locking mechanism allows the puller jaws to easily lock onto work surface for both “inside” and “outside” pulling applications, preventing the puller from slipping off the application—two-handed operation without the use of tools
- **Interchangeability:** reversible jaw design, two-position yokes that accommodate multiple jaw lengths, spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- **Strength and durability:** one-piece jaw construction that does not use pins or bolts, provides a stronger, safer jaw; power pressure screws are roll threaded and heat-treated for strength and durability; forged jaws and yokes are heat-treated for maximum strength and durability

### CJ270HMRFR Heavy-Duty General Purpose 3.8 lb Slide Hammer Set

- 3.8 lb slide hammer provides maximum transfer force on the part to be removed
- Slide screw threads are standard and interchangeable with many Snap-on® puller yokes
- Slide screw has rolled threads instead of cut threads for optimum strength and durability
- Slide screw is heat-treated for optimum strength and durability
- Industrial finish helps protect against corrosion (slide screw)
- Ergonomic handle grip

### CJ1052 10-Ton Hydraulic Pump and Ram Set

- Hydraulics allow for smooth controlled loading and unloading
- Provides an even application of force
- Does not require a screw to be turned, compensation for counter rotation not required (non-rotational)
- Hydraulic rams can be used in push or pull direction depending on orientation
- Reduced input effort resulting in easy operation for the user
- Interchangeable tips reduce damage on workpiece and are easily swapped out
- Second “grip” handle allows for use of pump while standing in addition to being able to be used on a table or tool box
- 6' hose allow technician to use hydraulic pullers on lift or in a remote location



### CJ270HYD 10-Ton Hydraulic Conversion Add-on

- Includes the 2-Jaw and 3-Jaw hydraulic yokes and hand wheel adaptor
- Add-on to the CJ1052 to convert the CJ270 to Hydraulic
- Yokes have through hole for easy pass through of the hydraulic screw
- Chrome/nickel-alloy finish resists rust and corrosion



### CJ270-A1310 A1310 Adaptor for CJ270

- Allows use of various drivers and adaptors with CJ270 jaw pullers, giving the technician the flexibility to interchange with tools they already own
- Adaptor assists in maintaining square alignment for ideal force application
- Allows technician to assemble their own specialized tool configuration to service difficult or uncommon jobs with ease
- Works with most Snap-on® 3/4"-16 pressure screws, which can be found in the CJ series jaw pullers and bar pullers
- Works with A1310B and A1310SB bearing race and seal driver disks; A157, A257, A160M and A261M bushing driver disks and BJP cups by utilizing the A1310SB-BJP1 adaptor



### CJ4-2GAKT 6- and 10-Ton Add-on Set

- Gauge makes it easy for user to know how much force they are applying to the work piece
- Use with CJ652 and CJ1052 Hydraulic Pump/Ram sets
- Calibrated in dual scale reading in psi and bar
- All pressure sensing parts sealed and dampened by glycerin for long life
- Includes safety blow-out disk and pressure equalizing membrane
- 45° angled gauge adaptor improves visibility of the gauge
- Slim and narrow design of the gauge adaptor
- Easy to fit in a broad range of systems
- Maximize controlled load movement



- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1-W4



# PULLERS: GENERAL PURPOSE INTERCHANGEABLE



CJ2400



CJ2500



CJ2500S



CJ2500SB

## Master Sets

- **Easy to use:** Spring loaded locking mechanism allows the puller jaws to easily lock onto work surface for both "inside" and "outside" pulling applications, preventing the puller from slipping off the application—two-handed operation without the use of tools
- **Interchangeability:** Reversible jaw design, two-position yokes that accommodate multiple jaw lengths, spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- **Strength and Durability:** one-piece jaw construction that does not use pins or bolts provides a stronger, safer jaw; power pressure screws are roll threaded and heat-treated for strength and durability; forged jaws and yokes are heat-treated for maximum strength and durability

### CJ2400 Light-Duty Manual Interchangeable Master Puller Set

- Set includes: (1) CJ240-11 Pressure Screw; (1) CJ240-3 2-Jaw Yoke; (1) CJ243 3-Jaw Yoke; (3) CJ240-3 2-1/2" Jaws; (1) CJ243-5 Lock Plate; (1) CJ240-6 Spring; (1) CJ240-7 Adjustable Lock Nut; (1) CJ93-1 Slide Screw; (1) CJ125-6 Slide Hammer; (1) CJ93-3-1A Jaw Holder; (2) A78-6D Jaw Pins; (2) A78-4 1-5/8" Jaws; (2) A78-3 2" Jaws; (1) CJ93-4 Double Hook; (1) CJ93-5 Hook; (1) CJ93-6B Body Dumper Adaptor; (1) CJ93-7 Stud Puller Adaptor 5/16"-24; (1) CJ93-8 Stud Puller Adaptor 3/8"-24 and (1) CJ107-1A Tapered Screw
- Interchangeability of components creates (36) puller configurations and works with other CJ pullers in the product line

### CJ2500 Heavy-Duty Manual Interchangeable Master Puller Set

- Set includes: (1) CJ250-413 Pressure Screw and Point, (1) CJ250-5 Lock Plate, (1) CJ250-6 Spring, (1) CJ250-7 Adjusting Nut, (1) CJ250-9 2-1/2 lb Slide Hammer, (1) CJ253-2 3-Jaw Yoke, (3) CJ270-10 Long Jaws, (1) CJ270-1117 Pressure Screw and Point, (3) CJ270-12 15" Jaws, (1) CJ270-1317 Screw Adaptor and Point, (1) CJ270-1417 Slide Screw with Center Point, (1) CJ270-2 2-Jaw Yoke, (3) CJ270-3 5-1/2" Jaws, (3) CJ270-3S Special Grip Jaw Pullers, (1) CJ270-6 Spring, (1) CJ270-7 Adjustable Lock Nut, (1) CJ273-2 3-Jaw Yoke, (1) CJ273-5 Lock Plate, (1) CJ97-3A 3-3/4 lb Slide Hammer, (1) ME4A8 3/4" Lock Nut and (1) ME4A4 5/8"-18 Nut

### CJ2500S Heavy-Duty Manual Interchangeable Master Puller Set (with Tool Control Board)

- Includes CJ2500 set, mounted on a VE113C tool control board
- Board has part number markings to help reorder used and damaged parts
- Contrasting colors provide visual control which reduces time searching for missing tools
- Tool control board for this set is VE113C

### CJ2500SB Heavy-Duty Manual Interchangeable Master Puller Set (with Tool Control Board, Wall Cabinet)

- Includes CJ2500 set, mounted on a VE113C tool control board in a cabinet
- Board has part number markings to help reorder used and damaged parts
- Contrasting colors provide visual control which reduces time searching for missing tools
- Tool control board for this set is VE113C
- Wall cabinet is KRA276D



## Bar-Type Interchangeable Pullers

Interchangeable bar-type pullers provide high-quality pulling equipment with the versatility needed to handle a wide variety of pulling functions. Standardized pressure screw threading, jaw retention and design mean that new components can be added to an existing puller to change its reach or spread in order to handle new or different applications. These Snap-on® bar-type pullers also feature:

- Replaceable pressure screw points help to keep the puller safely centered
- Multiposition yokes help keep the jaws properly aligned with the item being pulled
- Adjustable clamp bolts allow the jaws to be snugged up against the job for a safer, more convenient pull
- Spring ball pin retention securely holds the jaws while allowing for quick jaw changes



CJ83C



CJ82B



CJ80A

### CJ83C Pulley and Gear Puller

- Ideal for servicing crankshaft pulleys, gears and timing gears on a wide range of gasoline and diesel engines, including Cummins® accessory drives and water pumps
- Includes (2) 3/8"-16 x 3", 5/16"-18 x 2-1/2" and M10-1.5 x 65 mm bolts
- Nominal capacity is 3-1/2 ton

### CJ82B Pitman Arm Puller

- Handles many pitman arm applications and a wide variety of general pulling jobs
- Nominal capacity is 6 ton

### CJ80A A/C Pulley Puller

- Excellent for the removal of alternator, generator, power steering and crankshaft pulleys, harmonic balancers and fiber timing gears
- Includes an extra pair of jaws for versatility
- Nominal capacity is 7-1/2 ton



CJ85A

### CJ85A Truck Differential Side Bearing Puller

- Similar in appearance to CJ81D but bigger for handling truck applications
- Four centering plates are included
- Nominal capacity is 7-1/2 ton



CJ81D

### CJ81D Differential Side Bearing Puller

- Narrow jaws slip into housing grooves in the back of the bearing and let the jaws seat and pull along with the inner race
- Jaws are locked onto the bearing by a clamp bolt
- Four centering plates are included
- Nominal capacity is 6 ton

## CJ Series Major Components (see chart on next page)

Specifications	CJ80A	CJ85A	CJ82B	CJ83C	CJ81D
Nominal Capacity, tons	7.5	7.5	6	3.5	6
Maximum Reach, inches	D3: 1-5/8, D5: 1-3/8	1-3/4	2-1/4	Variable	1-5/8
Maximum Spread, inches	5	5-1/2	3-3/8	5	3-3/8
Pressure Screw Size, inches	3/4-16 x 3-1/2	3/4-16 x 4-1/4	3/4-16 x 4-1/4	3/4-16 x 3-1/2	3/4-16 x 4-1/4
Optional Jaws	D1, D2, D4	D1, D2, D3, D5	D1, D2, D4, D5	—	D1, D2, D4, D5
Optional Points	C2	C2	C2	C2	C2
Optional Pressure Screws	B1, B2	B1, B3	B1, B3	B1, B2	B1, B3
A Yoke	A3	A3	A4	A4	A4
B Pressure Screw	B3	B2	B2	B3	B2
C Point	C1	C1	C1	C1	C1
D Jaws (2)	D3, D5	D4	D3	—	D3
E Clamp Bolt	E3	E3	E4	—	E4
F Washers (2)	F1	F1	F1	F2, F3	F1
G Clamp Nuts (2)	G1	G1	G1	—	G1
H Jaw Pins (2)	H1	H1	H1	—	H1
J Adaptors	—	J2	—	—	J1
K Studs (2)	—	—	—	K1, K2, K3	—



- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1-W4



# PULLERS: BAR-TYPE INTERCHANGEABLE

GENERAL HAND TOOLS



## CJ Interchangeable Pullers—Major Components

Set Contains: CJ83C CJ82B CJ81D CJ85A CJ80A

Component	Key No.	Stock No.	Specific Dimensions		CJ83C	CJ82B	CJ81D	CJ85A	CJ80A
			Usable Range, inches	Pin Holes per Side					
	Yoke	A1	CJ100-1	10-1/2-16	4				
	Yoke	A2	CJ118-1	6-10-1/2	3				
	Yoke	A3	CJ85-1	3-6-1/2	3			•	•
	Yoke	A4	CJ86-1	1-3/4-4-1/2	2	•	•	•	
	Pressure Screw	B1	CJ105-3	3/4-16 x 10-1/2	7/8				
	Pressure Screw	B2	CJ83-2	3/4-16 x 6-11/16	7/8		•	•	•
	Pressure Screw	B3	CJ83-3	3/4-16 x 5-1/8	7/8	•			•
	Point	C1	CJ66-15-3	5/8	90° Outward	•	•	•	•
	Point	C2	CJ84-16	7/8	90° Outward				
	Jaws (2 needed)	D1	CJ116-1	8-1/4	—				
	Jaws (2 needed)	D2	CJ282-1	4-3/8	—				
	Jaws (2 needed)	D3	CJ81-2A	1-3/8	—		•	•	•
	Jaws (2 needed)	D4	CJ85-2	1-3/4	—			•	
	Jaws (2 needed)	D5	CJ87-1	1-3/8	—				•
	Clamp Bolts	E1	CJ100A2	18	—				
	Clamp Bolts	E2	CJ118-2A	11-1/2	—				
	Clamp Bolts	E3	CJ85-3A	7-1/2	—			•	•
	Clamp Bolts	E4	CJ86-4A	5	—		•	•	
	Washer (2 needed)	F1	CJ85-4	15/32	7/8		•	•	•
	Washer (1 needed)	F2	ME5A54	11/32	11/32	•			
	Washer (1 needed)	F3	ME5A55	9/32	3/4	•			
	Clamp Nuts (2 Needed)	G1	ME4A33	7/16 x 20	—		•	•	•
	Jaw Pins (2 needed)	H1	CJ105-11	5/16	1-15/32		•	•	•
	Adaptors (Set of 4)	J1	CJ81B1A	1-1/2	1-1/8			•	
			CJ81B2A	1-5/8	1-1/4			•	
			CJ81D1A	1-3/4	1-1/8			•	
			CJ81D2A	1-11/32	15/16			•	
	Adaptors (Set of 4)	J2	CJ85-5	2	1-1/2				•
			CJ85-6	2-1/8	1-21/32				•
			CJ85-7	2-1/2	1-27/32				•
			CJ85-8	3-1/16	2-3/8				•
	Studs (2 needed)	K1	ME3A44	3/4-16 x 3	—		•		
	Studs (2 needed)	K2	ME3A45	5/16-18 x 2-1/2	—		•		
	Studs (2 needed)	K3	ME3A75	M10-1.5 x 65 mm	—		•		

Letters in chart refer to Key No. in chart on previous page (A3, B1, C1, etc.)





**CJ2002**

## Gear Puller Set

### CJ2002 Gear Puller Set

- For use on Pitman arms, timing gears, carrier side bearings and more
- Combine to create 10 different pullers
- 6–10-ton capacity depending on yoke and jaws used

### CJ66-15-3 Centering Point

- 5/8" head, 90° outward point

### CJ81-2A Jaw

- 1-3/8" Maximum Reach

### CJ83-2 Pressure Screw

- 3/4–16 x 6-11/16"

### CJ83-3 Pressure Screw

- 3/4–16 x 5-1/8"

### CJ84-16 Centering Point

- 7/8" head, 90° outward point

### CJ85-1 Yoke

- Range 3–6-1/2"

### CJ85-3A Clamp Bolt

- 7/16"-20 x 8-1/16"

### CJ85-4 Washer

- Inside diameter 15/32"
- Outside diameter 7/8"

### CJ86-1 Yoke

- 1-3/4–4-1/2"

### CJ86-4A Clamp Bolt

- 5" maximum length

### CJ87-1 1-3/8" Jaw

### CJ105-11 Long Jaw Pin

- 5/16" dia., 1-15/32" long

### CJ282-1 4-3/8" Jaw

### ME4A33 Hex Nut (4)

## 6-Ton Capacity (5.41 t), Tapped Hole

Stock No.	Description	Maximum Spread, inches (mm)	Maximum Reach, inches (mm)	Pressure Screw Size, inches	Side Rod Adaptors (2 each)	Side Rods (2)
<b>CJ84C</b>	Basic Bar-Type Manual Tapped Hole Puller Set	2-5/8–11-5/8 (67–295)	—	1-14 x 33	—	5/8-18 x 10
<b>CJ840C</b>	Complete Bar-Type Manual Tapped Hole Puller Set	2-5/8–11-5/8 (67–295)	33 (838)	1-14 x 33	3/8–24; 3/8–16; 5/16–24; 5/16–18; 7/16–20; 5/8–18; 5/8–11; 7/16–14; 1/2–20; 1/2–13; 3/4–16; 3/4–10	1/2-20, 1/2-13, 3/4-16, 3/4-10

### CJ84C Basic Bar-Type Manual Tapped Hole Puller Set

- CJ840C less all adaptors and side rods except 5/8"-18 x 10"

### CJ840C Complete Bar-Type Manual Tapped Hole Puller Set

- Side rods in set are provided 2 each in 5", 10" and 20" lengths



**CJ840C**

## BAR-TYPE PULLER ADAPTORS

### Male Adaptors

Stock No.	Description	Female Thread	Male Thread
<b>CG656-12</b>	5/8"-18 Adaptor	7/16"-14	5/8"-18
<b>CJ84-10</b>	Male Adaptor	5/8"-18	3/8"-16
<b>CJ84-11</b>	Male Adaptor	5/8"-18	1/2"-13
<b>CJ84-12</b>	Male Adaptor	5/8"-18	5/8"-11
<b>CJ84-13</b>	Male Adaptor	5/8"-18	3/4"-16
<b>CJ84-14</b>	Male Adaptor	5/8"-18	3/4"-10
<b>CJ84-15</b>	Male Adaptor	5/8"-18	5/16"-18
<b>CJ84-17</b>	Male Adaptor	5/8"-18	5/8"-18
<b>CJ84-18</b>	Male Adaptor	5/8"-18	7/16"-14
<b>CJ84-6</b>	Male Adaptor	5/8"-18	5/16"-24
<b>CJ84-7</b>	Male Adaptor	5/8"-18	3/8"-24
<b>CJ84-8</b>	Male Adaptor	5/8"-18	7/16"-20
<b>CJ84-9</b>	Male Adaptor	5/8"-18	1/2"-20



**CG656-12**



**CJ84-10**



- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1–W4





CJ134



CJ131P



CJ145

## Steering Wheel Pullers

### CJ134 Tilt Steering Pivot Pin Puller

- Allows efficient removal of the two pivot pins on all tilt steering columns used on Chrysler®, Ford® and GM® vehicles

### CJ131P Steering Wheel Puller and Lock Plate Depressor Set

- Includes a selection of bolts and a handle in a storage case for servicing GM®, Ford®, Chrysler® and AMC vehicles
- Adaptors are included for servicing lock plates on all GM® and AMC vehicles with tilt wheel
- Detachable handle helps hold the puller when turning force is applied to the pressure screw
- Industrial finish

### CJ145 Steering Wheel Puller for GM® Vehicles

- Use on new GM® steering wheels with air bags, including tilting and telescoping styles
- Handle attachment facilitates puller setup and can be removed when working in confined areas
- Applications: Buick® (1997 and later Park Avenue/Regal®), Cadillac® (1997 and later Catera), Chevrolet®/GMC® (1997 and later Corvette®/Malibu®, 1998 C and K series trucks, 1998 full size vans, 1998 Astro/Safari vans), Oldsmobile (1997 and later Cutlass) and Pontiac® (1988–1993 LeMans, 1997 and later Grand Prix®/Trans Sport vans)



CJ3PSB

## Power Steering Pullers

### CJ3PSB 8 pc Power Steering Puller Set

- One-piece reversible dual yoke utilizes a cup design to provide more surface contact reducing the chance of slippage or surface damage
- Puller driver assembly incorporates a 1" hex, thrust bearing and Fine thread Pressure screw permitting easy turning while providing maximum loading, which results in flush installation with positive stop
- All adaptors are designed to use with a single pressure screw further reducing the number of tools needed for greater user convenience
- Reversible dual yoke, one-piece driver, and a single pressure screw with multiple adaptors allows quick changeover resulting in faster set-ups and fewer man-hours
- Power Pressure screws and Installer adaptors are roll threaded and heat-treated for strength and durability
- The yoke and driver are heat-treated for max strength and durability and zinc plated to prevent corrosion



CJ89



CJ115



PAR1490



YA6880

## Pitman Arm Pullers

### CJ89 Pitman Arm Puller

### CJ119B Pitman Arm Puller (Domestic Cars/Light Trucks)

- Designed for most U.S. cars and light trucks
- 3/4"-16 x 6-7/8" pressure screw size
- Industrial finish

### CJ115 Pitman Arm Puller

- Similar in design to CJ119B except it is designed for compact and intermediate size cars

### PAR1490<sup>†</sup> Super-Duty Pitman Arm Popper

- Fits short sector shaft and long sector shafts with a bolt or nut attachment
- Forged from alloy steel
- Heat-treated for rigidity and durability
- Fine pitch thread for reduced effort
- Ball bearing tip to protect the sector shaft

### PAR1988<sup>†</sup> Medium-Duty Pitman Arm Remover

- Patented design uses leverage action and requires less torque and space than other pitman arm tools and removal methods
- Low clearance design works on steering gear mounted in the vehicle
- Accommodates pitman arms that are 3" wide
- Forged alloy steel construction securely locks the tool in place

### PAR6880<sup>†</sup> High-Leverage/Low-Profile Pitman Arm Puller

- Fits inside confined spaces and eliminates the need to remove the steering gearbox
- Works on most Pitman arm applications
- Enables technician to work safely and more efficiently, increasing profit-earning potential
- Opening for steering box/pitman arm is approx. 1-1/2" and is designed for Sector Shafts measuring 1.35" diameter
- Accepts pitman arms 2.60" wide
- Gearbox-to-Pitman Arm clearance measuring 0.250"
- Manufactured with forged chromoly steel construction

### YA6880<sup>†</sup> Low-Profile Pitman Arm Puller

- Fits in the confined space on most GM® (1988–2000 C and K Series chassis) trucks and SUVs; also fits 2001–present trucks and SUVs with steering gear box/pitman arms
- Forged chromoly steel for strength and durability
- Design allows the technician save time removing the arm off of the steering gear box without altering the boxes position



**Harmonic Damper Pulley Pullers**

**HDP6490<sup>†</sup> Harmonic Damper Pulley Puller**

- Includes (6) different length push rods and special patent pending tip
- New spring-loaded legs allow for leg position retention
- Provides greater ease and control when installing the puller in confined areas
- Removes 3- and 6-spoke harmonic damper pulleys found on many Chrysler® and GM® engines
- Eliminates the need to remove the radiator or other components

**HDP1345<sup>†</sup> Harmonic Damper Pulley Puller**

- Specially designed to pull at three points on the ledges of the pulley with less chance of damage and applies equal force when pulled; can save up to 30 minutes per job
- Spring-loaded legs retain position and have correct geometry for Dodge® pulleys
- Gives greater ease and control when installing the puller in confined areas
- Eliminates the time consuming process of removing the radiator and other components
- Includes (6) push rods in multiple lengths and special patent pending tip

**HDP1740<sup>†</sup> Two-Jaw Harmonic Pulley Puller**

- Specially designed two-jaw puller for smaller cars with four-spoke pulleys
- Patent-pending side-turn legs quickly and easily grab the pulley
- Compact low profile narrow design fits the small pockets found on most pulleys
- Spring-loaded legs maintain their position and save time as the puller is positioned on the pulley

**CJ146 Crankshaft Harmonic Balancer Kit**

- Remove the crankshaft harmonic balancer on 1990 and later 3.3 L and 3.8 L GM® engines
- Shoulder bolt adaptors provide the correct installation depth, preventing damage to the crank sensor and interrupter rings
- Includes (3) CJ146-1 adaptors, (1) CJ146-2 extension and vinyl storage pouch
- Requires Snap-on® CJ98-1 yoke and CJ83-3 pressure screw for use (not included)

**HDP1835<sup>†</sup> Harmonic Damper Pulley Puller for Ford®/GM®**

- Revolutionary low-profile legs fit smaller narrow pulley pockets and have the correct geometry to work on a wide range of applications because the legs grasp on the backside of the spoke
- New design increases the bite of the leg to the pulley as it's tightened
- Compact design accommodates tight engine compartments
- Spring-loaded legs maintain position to save time as the puller is positioned on the harmonic damper pulley
- Saves the average user approximately 30 minutes

**HDP1800<sup>†</sup> 15 pc Master Harmonic Damper Pulley Puller Set**

- Combines (4) harmonic pulley puller kits into one master kit
- Features three styles of legs including the unique patent-pending, industry-exclusive side-turn legs
- Includes an extra set of spring washers and a spare clevis pin
- Compact design has everything needed inside a blow-molded case

**HDP1800-1<sup>†</sup> 3-Jaw Pulley Puller Hub**

**HDP1800-2<sup>†</sup> 2-Jaw Pulley Puller Hub**

**HDP1800-3<sup>†</sup> Pulley Puller Center Bolt**

**HDP1800-4<sup>†</sup> Push Rod Tip**

**HDP1800-5<sup>†</sup> Detent Clevis Pin**

**HDP1800-6<sup>†</sup> Side Turn Leg Spring Style**

**HDP1800-7<sup>†</sup> Leg Chrysler® Spring Style (Gold)**

**HDP1800-8<sup>†</sup> Leg Universal Spring Style**

**HDP1800-9<sup>†</sup> 3" Pulley Puller Push Rod**

**HDP1800-10<sup>†</sup> 2" Pulley Puller Push Rod**

**HDP1800-11<sup>†</sup> 5.4" Pulley Puller Push Rod**

**HDP1800-12<sup>†</sup> 4" Pulley Puller Push Rod**

**HDP1800-13<sup>†</sup> 7-1/2" Pulley Puller Push Rod**

**HDP1800-14<sup>†</sup> 6-1/2" Pulley Puller Push Rod**

**HDP1800-15<sup>†</sup> Wavy Washer Spring Pack**

**HDP1800-CASE<sup>†</sup> Blow Molded Box**



CJ146



HDP1345



- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- † These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4

**PULLERS: AUTOMOTIVE**



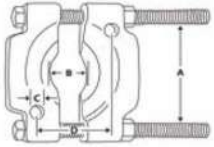
YA6491A

**Harmonic Balancer**

**YA6491A<sup>†</sup> Harmonic Damper Pulley Puller Update Kit (Blue-Point®)**

- Updates earlier YA9740 pullers to the same applications as the new YA6490A
- Kit updates other pulley pullers that are similar to the YA9740 series of pullers
- Add YA6491 Update Kit to the existing YA9740 series pullers to add these new applications: GM® 4.2 L Straight 6-cylinder; Chevrolet® Trailblazer®, Colorado®; GMC® Envoy, Canyon® (2004–later); Oldsmobile Bravada (2003–later); Buick® Rainier® (2004–later) 3.5 L Straight 5-cylinder; Hummer® H3 (2006–later) 2.8 L Straight 4-cylinder

**PULLERS: SPECIAL PURPOSE**



**Bearing Separators**

For separating and pulling double bearings and close-fitting gears. Use with tapped hole, two-jaw pullers or floor presses.



CJ949

Stock No.	A	B, Maximum Spread	B, Minimum Spread	C	D
CJ949	1-11/16	1-1/8	1/4	5/16"-18	2-5/8
CJ950	2-3/8	2-3/8	3/8	3/8"-16	3-3/4
CJ951	4-3/8	4-1/2	5/8	5/8"-18	7-1/4
CJ952	5-7/8	6-1/8	1-1/2	5/8"-18	9-5/16
CJ953	8-3/8	8-3/4	1-1/4	7/8"-14	14-7/16



A78

**Small/Pilot/Ball Bearing Pullers**

**A78 Small Bearing Puller**

- For bearings and bushings typically found in small electric motors
- Includes a large jaw set for bronze and oilite bushings, small jaw set for smaller bearings and bushings
- Up to 3 tons of pulling power
- Working range is 1/2–2"

**SP2031A<sup>†</sup> Pilot Bearing Puller (Blue-Point®)**

- Attaches to slide hammer shafts with 3/4"-16 or 5/8"-18 threads
- Pressure screw adaptor is made of stress-resistant steel
- Industrial finish



SP2031A



## Ford® Diesel Turbo Tools

### TVA1650† Turbo Vane Actuator Installer for Ford® Vehicles

- Simply rotate the arm up, slip the self-centering installer over the arm, and with two wrenches the stud is pushed into the arm in a matter of seconds
- Compact size allows tool to be used either on or off the truck
- Single-purpose design saves time and allows the user to work more efficiently while reducing the potential to damage parts during installation
- Fine thread actuator reduces the torque required to loosen the press fit



TVA1650

## DIESEL SERVICE SETS



CUMDS12V



CUMDS24V

## Cummins® B and C Series

Stock No.	Description	Applications				Set Contents	
		12 Valve	24 Valve		CUMDS12V	CUMDS24V	
		Pre-1994	1994-1998-1/2	1999-2002	2003	12 Valve	24 Valve
EEPD500†	Diesel Compression Gauge	•	•	•	•	•	
MB5D	Bronze Injector Brush (Blue-Point®)	•	•	•	•	•	
MB6BTA	9" Injector Brush (Blue-Point®)	•	•	•	•	•	
FRHM17	3/8" Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Crowfoot Wrench	•			•		
FRXM17	3/8" Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Socket	•			•		
M3584	Compression Adaptor	•			•		
FRHM19	3/8" Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Crowfoot Wrench		•	•		•	
FRXM19	3/8" Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Socket		•	•		•	
EEPV313C†	Diesel Compression Gauge Adaptor		•	•		•	
SP504	Gear Puller (Blue-Point®)		•	•		•	

### CUMDS12V 14 pc 12 Valve Diesel Set for Cummins® B and C Series Engines

- Includes 3/8" drive 6-point metric 17 mm flare nut socket and flare nut crowfoot wrench, 1/2" drive 6-point metric 24 mm deep socket, feeler gauge, diesel compression adaptor, bronze injector brush, stainless steel injector brush, injection pump wrench, 10 mm idle lock nut wrench, 12 mm diesel injector puller adaptor, M14 x 1.5 diesel injector puller adaptor, slide hammer injector puller, engine turning tool and 0-800 PSI diesel compression gauge
- Includes a tote bag

### CUMDS24V 14 pc 24 Valve Diesel Set for Cummins® B and C Series Engines

- Services Cummins® B and C Series 12- and 24-valve engines 1994 and later
- Additional uses include Dodge® heavy-duty pickups and all applications with ISB and ISC diesel engines
- Includes 3/8" drive 6-point metric 19 mm flare nut socket, 3/8" drive 6-point metric 19 mm flare nut crowfoot wrench, feeler gauge, bronze injector brush, stainless steel injector brush, gear puller, 8 mm diesel injector puller, 15 mm diesel injector puller, slide hammer injector puller, engine turning tool, diesel compression gauge adaptor, fuel line plug, fuel tube remover and 0-800 PSI diesel compression gauge
- Includes a tote bag

- Read and follow safety messages in Instructions.
- Do not expose gasoline or fuel to flames, sparks or other sources of ignition.
- Use only in well ventilated areas.
- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4

