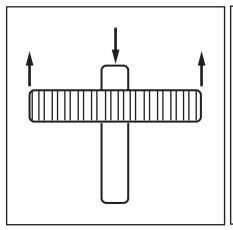
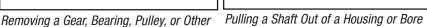
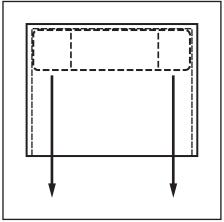
Snap-on® Pullers The ABC's of Selecting the Right Puller







Removing a Bearing or Bushing from a

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

A. What Type of Puller Do I Want to Use? Will it Be the Combination that Works the Best?

Tools to Use

• Jaw Type Puller

2 or 3-jaw style, with 3-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 components.

Slide Hammer Puller

Use on light duty applications. For use with attachments.

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

B. 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.

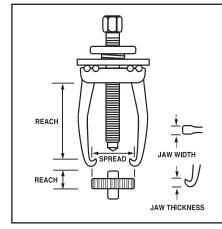
C. Estimate the Puller Tonnage

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.

Tools to Use

- Push/Pull Puller
 Use male or female adaptors.
- Bar Type Puller with Bearing Separator
 Use when housing lacks sufficient surface for puller
 side rods to bear against.
- Slide Hammer Puller
 Use on light duty applications.

 For use with attachments.
- Slide Hammer Puller
 Use with male or female adaptors. See page 355 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. See page 358 for full information.

- Bearing Adaptors with Slide Hammer Puller CJ127A, CJ128A, and CJ137 Bearing Adaptors with CJ97-3A Slide Hammer should be used in this application.
- Bar Type Puller with Bearing Separator
 Bar type with side rods threaded into bearing
 separator provides "knife edge" to get behind
 components or when there is not a good
 gripping edge.

General Rule to Choose 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.



WARNING







Pullers and parts under stress can break.

Wear safety goggles while using pullers. Screen the puller from yourself and bystanders. Use the largest size puller possible to do the job. Use a three jaw puller where possible. Inspect puller; do not use puller with worn or damaged parts. Make sure puller is fully engaged and squarely seated.

Broken parts can cause injury.

• Heating puller jaws can change their strength.

Do not heat jaws of puller.

Weakened jaws can break and cause injury.

• Hammering on puller jaws can cause damage.

Hammer only on curved head of pressure screw.

Broken parts can cause injury.

• Hand can get caught between slide hammer and hammer stop.

Keep hand away from front and rear of slide hammer.Hand injury can be caused by slide hammer.

Damaged or loose hydraulic lines can leak or burst.

Inspect hoses; do not use hoses with cuts, splits, or cracks. Tighten hydraulic connections.

Hydraulic leak can cause injury.

- Be sure that pressure screw threads are cleaned and well lubricated when using impact tools on pullers.
- Always use protective tip or removable point to prevent pressure screw from mushrooming or splitting.
- Always maintain a proper fluid level in hydraulic pump.
- Always use a pressure gauge with hydraulic pullers.
- Never keep pressure on a hydraulic ram. When job is finished, immediately release ram pressure.
- Use blind hole bearing pullers rather than torches, chisels, screwdrivers, hammers, prybars, etc. A blind hole puller provides 360° of steady, even pulling power.
- Read additional safety precautions on pages 534 to 537.

General Purpose Interchangeable **Pullers**

The CG2400B delivers:

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



Light DutyBuilds These Pullers:

Stock No.	Puller Type	Maximum Reach, inches	Outside Spread, inches	Inside Spread, inches
CG240	2-Jaw	2 ¹ / ₂	0-3	7/8-3 1/4
CG240H	2-Jaw	2 ¹ / ₂	0-3	7/8-3 1/4
CG243	3-Jaw	2 ¹ / ₂	3	7/8-3 1/4
CG243H	3-Jaw	2 ¹ / ₂	3	7/8-3 1/4

CG2400B Light Duty Puller Set. This versatile set provides 2 or 3-jaw pulling with pressure screw or slide hammer options. Interchange parts to build any of the five puller combinations.

The CG2510 and CG2500 Series delivers:

- Up to 12 1/2-tons of pulling power
- 10" diameter capacity for outside pulls
- From 3/4" to 8" diameter capacity for inside pulls



Heavy Duty

CG2510BSHY

Builds These Pullers:

		Maximum	Outside	Inside
Stock		Reach,	Spread,	Spread,
No.	Puller Type	inches	inches	inches
CG654HY	Hydraulic, 2-Jaw	3	0-4 ¹ / ₂	1 ¹ /2-3 ¹ /2
CG655HY	Hydraulic, 3-Jaw	3	0-4 ¹ / ₂	1 ¹ /2-3 ¹ /2
CG270	2-Jaw	5 ¹ / ₂	8 ¹ / ₂	2 1/2-7
CG270H	2-Jaw	5 ¹ / ₂	0-8 ¹ / ₂	2 ¹ /2-7
CG270S	Special Grip,	5 ¹ / ₂	0-8 1/2	2 1/2-7
	2-Jaw			
CG273	3-Jaw	5 ¹ / ₂	0-8 ¹ / ₂	2 1/2-7
CG273H	3-Jaw	5 ¹ / ₂	8 ¹ / ₂	2 1/2-7
CG280	Long Jaw. 2-Jaw	8	0-10	3-8
CG283	Long Jaw, 3-Jaw	8	0-10	3-8
CG274HY	Hydraulic, 2-Jaw	8 ³ / ₄	10	3-8
CG275HY	Hydraulic, 3-Jaw	8 3/4	0-10	3-8

CG2510BSBHY Heavy Duty Manual/Hydraulic Puller Set.

Includes 40 interchangeable components, including the CG1224 10-ton Hydraulic Power Kit. All components are displayed on a VE213 Tool Control Board, which is mounted inside a KRA276D Wall Cabinet.

CG1224 Hydraulic Conversion Kit. 10-ton. Converts CG270, CG273, CG280, and CG283 Manual Pullers (on Tool Control Panel "A") and CG1700/CG2500B Puller Sets to hydraulic power.

VE213 Tool Control Board. Panel "A" is designed to hold the components for CG2500BS Interchangeable Puller Set (6, 7 1/2, 10, and 12 1/2-ton capacity).

CG2510BSHY Heavy Duty Manual/Hydraulic Set. Same as CG2510BSBHY Set mounted on a VE213 Tool Control Board. Does not include the wall cabinet

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" to 8" diameter capacity for inside pulls. CG6223 Hydraulic Conversion Set converts CG250 and CG253 Manual Pullers to hydraulic power. The manual components of the indicated Medium Duty Pullers are included in the heavy duty (CG2500 / CG2510 Series) sets.



Medium Duty

Builds These Pullers:

Stock No.	Puller Type	Maximum Reach, inches	Outside Spread, inches	Inside Spread, inches
CG250	2-Jaw	3	4 1/2	1 1/2-3 1/2
CG250H CG250HL	2-Jaw Long Jaw. 2-Jaw	3 6	0-4 ¹ / ₂ 0-8 ¹ / ₂	1 ¹ /2-3 ¹ /2 ³ /4-8
CG253	3-Jaw	3	4 ¹ / ₂	1 1/2-3 1/2
CG253H	3-Jaw	3	4 1/2	1 1/2-3 1/2
CG253L	Long Jaw, 2-Jaw	6		³ /4 -8

The Big CG2510BSBHY Set builds 45 different pullers with dozens of different pulling variations—all from 40 components and the 10-ton hydraulic set included. Even without the hydraulics (the CG2500BS Manual Set) you can build 32 separate pullers. Or just add the Snap-on® CG6223 6-Ton Hydraulic Power Kit and you've added seven different puller combinations to each set.



CG2500BSB

CG2510BHY Heavy Duty Manual/Hydraulic Puller Set. Same as CG2510BSBHY Set except it doesn't include either the Tool Control Board or the Wall Cabinet

CG2500BSB Heavy Duty Manual Puller Set. This is the CG2510BSBHY Set less the 10-ton hydraulic power kit components. Tool Control Board for this set is VE113B; Wall Cabinet is KRA276D.

VE113B Tool Control Board. Panel "A" is designed to hold the components for CG2500BS Interchangeable Puller Set (6, 7 1/2, 10, and 12 1/2-ton capacity). CG2500BS Heavy Duty Manual Puller Set. Same as CG2500BSB Set mounted on a VE113B Tool Control Board. Does not include the KRA276D Wall Cabinet. CG2500B Heavy Duty Manual Puller Set. Same as CG2500BSB Set, except it doesn't include either the Tool Control Board or the Wall Cabinet.

CG270SETX Long Puller Jaw Set. Adds extra reach capability to any CG270 or CG280 Series puller, the CG1700 Set and any CG2500B Series set. Includes (3) CG270-12 Extra Long Jaws and (1) CG270-13 Pressure Screw Adaptor.





Pullers 2-Jaw Pressure Screw











2-ton Capacity (1.8 t), 2-law

	Maximum	Maximum	Maximum		·	
	Reach, inches	Spread, inches	Spread, inches	Pressure Screw	Jaw Thickness,	Jaw Width,
Stock No.	(mm)	(mm) inside	(mm) outside	Size, inches	inches (mm)	inches (mm)
CG240	2 1/2 (64)	⁷ /8-3 ¹ /4 (22-83)	3 (76)	3/8-16 x 5 ¹ /16	3/16 (5)	3/8 (10)
CG240L	3 1/2 (89)	⁷ /8-3 ³ /4 (25-95)	4 (102)	3/8-16 x 6 ¹ /16	³ / ₁₆ (5)	³ /8 (10)
6-ton Capacity	y (5.4 t), 2-Jaw					
CG250A*	3 (76)	1 ¹ /2-3 ¹ /2 (38-89)	4 ¹ / ₂ (114)	⁵ /8-18 x 6 ⁷ /8	1/4 (6)	³ / ₄ (19)
CG250	3 (76)	1 ¹ /2-3 ¹ /2 (38-89)	4 ¹ /2 (114)	⁵ /8 -18 x 6 ⁷ /8	¹ /4 (6)	³ /4 (19)
10-ton Capaci	ty (9.1 t), 2-Jaw					
CG270	5 ¹ / ₂ (140)	2 1/2-7 1/2 (64-178)	8 ¹ / ₂ (216)	3/4-16 x 9 ¹³ / ₁₆	1/4 (6)	¹⁵ / ₁₆ (24)
CG270A*	5 ¹ /2 (140)	2 ¹ /2-7 ¹ /2 (64-178)	8 ¹ /2 (216)	³ /4-16 x 9 ¹³ / ₁₆	¹ /4 (6)	¹⁵ /16 (24)
CG272	5 ¹ /2 (140),	2 ¹ /2-7 ¹ /2 (64-178),	8 ¹ / ₂ (216),	³ /4 -16 x 9 ¹³ / ₁₆	¹ /4 (6)	¹⁵ /16 (24)
2 Jaw Lengths	8 3/4 (222)	3-8 (76-203)	10 (254)	³ /4-16 x 12 ¹ /8	1/4 (6)	¹⁵ / ₁₆ (24)
CG270S	5 ¹ /2 (140)	2 ¹ /2-7 ¹ /2 (64-178)	8 ¹ / ₂ (216)	³ /4 -16 x 9 ¹³ / ₁₆	1/4 (6)	¹⁵ /16 (24)
CG280	8 ³ / ₄ (222)	3-8 (76-203)	10 (254)	³ /4-16 x 12 ¹ /8	1/4 (6)	¹⁵ /16 (24)
CG284**	15 (381)	4 3/4-11 1/2 (121-292)	13 ³ / ₄ (349)	³ /4-16 x 18 ¹⁵ / ₁₆	³ /8 (10)	1 (25)
Includes CG1 Pulling	Plate. **Includes pressure	screw extension.				
20-ton Capaci	ty (18.1 t), 2-Jaw					
CG300	9 ¹ / ₂ (241)	3 ¹ /2-10 (89-254)	12 (305)	1-14 x 15	⁷ /16 (11)	1 ¹ / ₄ (32)
CG305	14 ³ /8 (365)	5-13 (127-330)	16 (406)	1-14 x 19	⁹ / ₁₆ (14)	1 ¹ /4 (32)

3-Jaw Pressure Screw







2 1/2-ton Capacity (2.3 t), 3-Jaw

	Maximum	Maximum	Maximum			
	Reach, inches	Spread, inches	Spread, inches	Pressure Screw	Jaw Thickness,	Jaw Width,
Stock No.	(mm)	(mm) inside	(mm) outside	Size, inches	inches (mm)	inches (mm)
CG243	2 1/2 (64)	⁷ /8-3 ¹ /4 (22-83)	3 (76)	3/8-16 x 5 ¹ /16	³ /16 (5)	3/8 (10)
CG243L	3 1/2 (89)	⁷ /8-3 ³ /4 (22-95)	4 (102)	3/8-16 x 6 ¹ /16	³ /16 (5)	³ /8 (10)
6-ton Capac	ity (5.4 t), 3-Jaw					
CG253L	6 (152)	³ /4-8 (19-203)	⁵ /8-18 x 6 ⁷ /8	⁷ /32 (5)	⁵ /16 (8)	
7 1/2-ton Ca	pacity (6.8 t) 3-Jaw					
						2/ // 0\
CG253	3 (76)	1 ¹ /2-3 ¹ /2 (38-89)	4 ¹ /2 (114)	⁵ /8-18 x 6 ⁷ /8	1/4 (6)	3/4 (19)
	3 (76) Capacity (11.3 t), 3	, ,	4 1/2 (114)	³ /8-18 X 6 ⁷ /8	1/4 (6)	³ /4 (19)
		, ,	8 ¹ / ₂ (216)	³ /8-18 x 6 ⁷ /8	1/4 (6)	¹⁵ / ₁₆ (24)
12 1/2-ton (Capacity (11.3 t), 3-	-Jaw				
12 1/2-ton (Capacity (11.3 t), 3- 5 1/2 (140)	-Jaw 2 ¹ / ₂ -7 ¹ / ₂ (64-178)	8 ¹ / ₂ (216)	³ /4- 16 x 9 ¹³ /16	1/4 (6)	¹⁵ / ₁₆ (24)
12 1/2-ton (CG273 CG273A	Capacity (11.3 t), 3- 5 1/2 (140) 5 1/2 (140)	2 ¹ / ₂ -7 ¹ / ₂ (64-178) 2 ¹ / ₂ -7 ¹ / ₂ (64-178)	8 ¹ / ₂ (216) 8 ¹ / ₂ (216)	³ /4-16 x 9 ¹³ / ₁₆ ³ /4-16 x 9 ¹³ / ₁₆	¹ / ₄ (6)	¹⁵ / ₁₆ (24) ¹⁵ / ₁₆ (24)
12 1/2-ton (CG273 CG273A CG283 CG285	Capacity (11.3 t), 3- 5 1/2 (140) 5 1/2 (140) 8 (203)	2 ¹ / ₂ -7 ¹ / ₂ (64-178) 2 ¹ / ₂ -7 ¹ / ₂ (64-178) 3-8 (76-203) 4 ³ / ₄ -11 ¹ / ₂ (121-292)	8 ¹ / ₂ (216) 8 ¹ / ₂ (216) 10 (254) 13 ³ / ₄ (254)	³ /4-16 x 9 ¹³ / ₁₆ ³ /4-16 x 9 ¹³ / ₁₆ ³ /4-16 x 12 ¹ / ₈	1/4 (6) 1/4 (6) 1/4 (6)	¹⁵ / ₁₆ (24) ¹⁵ / ₁₆ (24) ¹⁵ / ₁₆ (24)
12 1/2-ton (CG273 CG273A CG283 CG285	Sapacity (11.3 t), 3- 5 1/2 (140) 5 1/2 (140) 8 (203) 15 (381)	2 ¹ / ₂ -7 ¹ / ₂ (64-178) 2 ¹ / ₂ -7 ¹ / ₂ (64-178) 3-8 (76-203) 4 ³ / ₄ -11 ¹ / ₂ (121-292)	8 ¹ / ₂ (216) 8 ¹ / ₂ (216) 10 (254) 13 ³ / ₄ (254)	³ /4-16 x 9 ¹³ / ₁₆ ³ /4-16 x 9 ¹³ / ₁₆ ³ /4-16 x 12 ¹ / ₈	1/4 (6) 1/4 (6) 1/4 (6)	¹⁵ / ₁₆ (24) ¹⁵ / ₁₆ (24) ¹⁵ / ₁₆ (24)
12 1/2-ton (Capacity (11.3 t), 3- 5 1/2 (140) 5 1/2 (140) 8 (203) 15 (381) city (18.1 t) Combin	2 ¹ / ₂ -7 ¹ / ₂ (64-178) 2 ¹ / ₂ -7 ¹ / ₂ (64-178) 3-8 (76-203) 4 ³ / ₄ -11 ¹ / ₂ (121-292)	8 ¹ / ₂ (216) 8 ¹ / ₂ (216) 10 (254) 13 ³ / ₄ (254)	³ /4-16 x 9 ¹³ / ₁₆ ³ /4-16 x 9 ¹³ / ₁₆ ³ /4-16 x 12 ¹ / ₈ ³ /4-16 x 18 ¹⁵ / ₁₆	1/4 (6) 1/4 (6) 1/4 (6) 1/4 (6) 3/8 (10)	¹⁵ / ₁₆ (24) ¹⁵ / ₁₆ (24) ¹⁵ / ₁₆ (24) 1 (25)

Pulling Plate CG1 Pulling Plate.

Ideal where there is no gripping surface for the puller alone. Attach plate to item being pulled puller clamps behind the plate. Includes four each of the following screws: 1/4"-20 x 3/4" and 1/4"-28 x 1". Plate has a 3 5/8" diameter.



Flat Points

CG250-21 Flat Point. Fits CG250 series pullers. CG270-21 Flat Point. Fits CG270 and CG280 series pullers.

CG300-21 Flat Point. Fits CG300 and CG305 series pullers.
CG325-21 Flat Point. Fits CG325 series pullers.
CG70 Flat Point Set. Includes CG270-21, CG300-21 and CG325-21 Flat Points.

2-Jaw Slide Hammer **Pullers**



2-ton Capacity (1.8 t) - 1 1/16 lb. Hammer

	Maximum	Maximum	Maximum			
	Reach, inches	Spread, inches	Spread, inches	Slide Screw	Jaw Thickness,	Jaw Width, inches
Stock No.	(mm)	(mm) inside	(mm) outside	Size, inches	inches (mm)	(mm)
CG240H	2 1/2 (63)	⁷ /8-3 ¹ /4 (22-82)	3 (76)	3/8-16 x 12 5/8	³ /16 (5)	³ /8 (10)
CG240HL	3 1/2 (88)	7/8-3 ³ /4 (25-95)	4 (102)	3/8-16 x 12 5/8	3/16 (5)	3/8 (10)
6-ton Capacit	ty (5.4 t) - 2 1/8 lb	. Hammer				
CG250C*	3 (76)	1 ¹ /2-3 ¹ /2 (38-89)	4 ¹ / ₂ (114)	5/8 -18 x 18 ¹ /16	¹ /4 (6)	³ /4 (19)
CG250H	3 (76)	1 ¹ /2-3 ¹ /2 (38-89)	4 ¹ /2 (114)	5/8-18 x 18 ¹ /16	¹ /4 (6)	³ /4 (19)
CG250HL	6 (152)	3/4-8 (19-203)	_	5/8-18 x 18 9/16	⁷ / ₃₂ (5)	5/16 (8)

^{*}Includes CG250H Puller, CG1 Pulling Plate, and Pressure Screw.

10-ton Capacity (9.1 t) - 3 1/2 lb. Hammer

	<u>,, , , , , , , , , , , , , , , , , , ,</u>					
CG270C**	5 ¹ / ₂ (140)	2 1/2-7 1/2 (64-178)	8 ¹ / ₂ (216)	3/4-16 x 23 3/8	1/4 (6)	¹⁵ /16 (24)
CG270H	5 ¹ / ₂ (140)	2 1/2-7 1/2 (64-178)	8 ¹ / ₂ (216)	³ /4-16 x 23 ³ /8	1/4 (6)	¹⁵ / ₁₆ (24)

^{**}Includes CG1 Pulling Plate and Pressure Screw.

3-Jaw Slide Hammer









	Maximum Reach, inches	Maximum Spread, inches	Maximum Spread, inches	Slide Screw	Jaw Thickness,	Jaw Width, inches
Stock No.	(mm)	(mm) inside	(mm) outside	Size, inches	inches (mm)	(mm)
CG243H	2 1/2 (64)	7/8-3 ¹ /4 (22-83)	3 (76)	3/8-16 x 12 5/8	3/16 (5)	3/8 (10)
CG243HL	3 ¹ /2 (89)	⁷ /8-3 ³ /4 (25-95)	4 (102)	³ /8-16 x 12 ⁵ /8	³ /16 (5)	³ /8 (10)

7 1/2-ton Capacity (6.8 t) - 2 1/8 lb. Hammer

	1 / 1					
CG253H	3 (76)	1 1/2-3 1/2 (38-89)	4 ¹ /2 (114)	⁵ /8-18 x 18 ¹ / ₁₆	1/4 (6)	³ / ₄ (19)

12 1/2-ton Capacity (11.3 t) - 3 1/2 lb. Hammer

CG273C*	5 ¹ / ₂ (140)	2 1/2-7 1/2 (64-178)	8 ¹ / ₂ (216)	3/4-16 x 23 3/8	1/4 (6)	¹⁵ / ₁₆ (24)
CG273H	5 ¹ /2 (140)	2 ¹ /2-7 ¹ /2 (64-178)	8 ¹ /2 (216)	³ /4-16 x 23 ³ /8	¹ /4 (6)	¹⁵ /16 (24)

^{*}Includes CG273H Puller, CG1 Pulling Plate, and Pressure Screw.

Special Grip Jaws

CG270-3S Special Grip Jaw.

Engineered for twice the gripping surface area of standard jaws. Can be used with any of the CG270 and CG273 Series Pressure Screw and Slide Hammer Pullers.



WARNING









Wear safety goggles while using pullers. Screen the puller from yourself and bystanders. Use the largest size puller possible to do the job. Use a three jaw puller where possible. Inspect puller; do not use puller with worn or damaged parts. Make sure puller is fully engaged and squarely seated.

Broken parts can cause injury.

Heating puller jaws can change their strength.

Do not heat jaws of puller.

Weakened jaws can break and cause injury.

• Hammering on puller jaws can cause damage.

Hammer only on curved head of pressure screw. Broken parts can cause injury.

Hand can get caught between slide hammer and hammer stop.
 Keep hand away from front and rear of slide hammer.

Keep hand away from front and rear of slide halHand injury can be caused by slide hammer.



- Damaged or loose hydraulic lines can leak or burst.
- Inspect hoses; do not use hoses with cuts, splits, or cracks. Tighten hydraulic connections.

Hydraulic leak can cause injury.

- Be sure that pressure screw threads are cleaned and well lubricated when using impact tools on pullers.
- Always use protective tip or removable point to prevent pressure screw from mushrooming or splitting.
- Always maintain a proper fluid level in hydraulic pump.
- Always use a pressure gauge with hydraulic pullers.
- Never keep pressure on a hydraulic ram. When job is finished, immediately release ram pressure.
- Use blind hole bearing pullers rather than torches, chisels, screwdrivers, hammers, prybars, etc. A blind hole puller provides 360° of steady, even pulling power.
- Read additional safety precautions on pages 534 to 537.

Pullers 2 and 3-Jaw Hydraulic

6-ton Capacity (5.4 t)

,	, ,					
Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG654HY Hydraulic, 2-Jaw	3 (76)	1 1/2-3 1/2 (38-89)	4 ¹ / ₂ (114)	⁵ /8-11 x 13 ³ / ₄	1/4 (6)	³ / ₄ (19)
CG655HY* Hydraulic, 3-Jaw	3 (76)	1 1/2-3 1/2 (38-89)	4 ¹ / ₂ (114)	⁵ /8-11 x 13 ³ / ₄	1/4 (6)	3/4 (19)



CG274HY



CG655HY

CG400HYA

CG425HYA

CG405HYA



	Maximum	Maximum	Maximum			
	Reach,	Spread,	Spread,	Pressure	Jaw	
	inches	inches	inches (mm)	Screw Size,	Thickness,	Jaw Width,
Stock No.	(mm)	(mm) inside	outside	inches	inches (mm)	inches (mm)
CG274HY 2-Jaw Model	8 3/4 (222)	3-8 (76-203)	3-8 (76-203), 10 ¹ / ₂ (266)	³ /4-10 x 16 ¹ /4	1/4 (6)	¹⁵ / ₁₆ (24)
CG275HY 3-Jaw Model	8 3/4 (222)	3-8 (76-203)	10 (254)	³ /4-10 x 16 ¹ /4	1/4 (6)	¹⁵ / ₁₆ (24)
CG276HY 2-Jaw Model	15 (381)	4 ³ /4-11 ¹ / ₂ (121-292)	13 ³ / ₄ (349)	³ /4-10 x 23 ³ /8	3/8 (9)	1 (25)
CG277HY* 3-Jaw Model	15 (381)	4 ³ / ₄ -11 ¹ / ₂ (121-292)	13 ³ / ₄ (349)	³ /4-10 x 23 ³ /8	3/8 (9)	1 (25)

Included with hydraulic ram.



20-ton Capacity (18.1 t) - Combination 2 and 3-Jaw

			Max.	Pressure		Jaw
		Max.	Spread,	Screw	Jaw	Width,
	Maximum Reach,	Spread,	in. (mm)	Size,	Thickness,	inches
Stock No.	inches	in. (mm)	outside	inches	in. (mm)	(mm)
CG400HYA*	9 1/2 (241)	_	13 (330)	1 ¹ /8-8 x 20 ¹ / ₂	⁷ /16 (11)	1 1/4 (32)
CG400HYA2S	This is CG400HYA with tw	o stage pum	p.			
CG400	This is CG400HYA less hy	draulic ram a	and pump.			
CG343	Manual version of CG400	HYA. Includes	CG343-1 4"	Plug and CG300-1	1"-14 Pressure	Screw in
	place of ram and pump.					
CG343-1	4" Plug					
CG300-1	1"-14 Pressure Screw					
CG405HYA*	14 (355)	_	15 (381)	1 ¹ /8-8 x 20 ¹ / ₂	⁹ /16 (14)	1 ¹ / ₄ (32)
CG405HYA2S	This is CG405HYA with tw	o stage pum	p.			
CG405	This is CG405HYA less hy	draulic ram a	and pump.			
CG348	Manual version of CG405 place of ram and pump.	HYA. Includes	CG343-1 4"	Plug and CG305-8	1"-14 Pressure	Screw in
CG425HYA*	19 (482)	_	20 (508)	1 ¹ /8-8 x 20 ¹ / ₂	1 ¹ /8 (29)	1 ¹ / ₂ (38)
CG425HYA2S	This is CG425HYA with tw	o stage pum	p.			
CG425	This is CG425HYA less hy	draulic ram a	and pump.			
CG325	Manual version of CG425 washer adaptor, ram ada) ¹¹ / ₁₆ " pressure so	crew in place of	pump, ram,

^{*}Included with hydraulic ram.



50-ton Capacity (45.36 t) - Combination 2 and 3-Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG560HY*	28 (711)	_	44 (1,118)	1 5/8-5 1/2 x 30	1 ⁷ /16 (36)	2 (51)
CG560HV2S	This is CG560HV v	v/ 2 stane numn			. ,	• •

^{*}Included with hydraulic ram.



^{*}To convert to manual power, use pressure screw, adjusting nut, and yoke from either CG250 or CG253 Pullers.

^{*}To convert to manual power, use pressure screw, adjusting nut, and yoke from either CG270 or CG273 Pullers.

Bar Type Manual Tapped Hole Sets **Pullers**



6-ton Capacity (5.4 t), Tapped Hole

	Max.		Pressure		
	Reach,	Max. Spread,	Screw Size,		Side Rod Adaptors
Stock No.	in. (mm)	in. (mm)	inches	Side Rods	(2 each)
CJ840C	33 (838)	2 5/8-11 5/8 (67-295)	1"-14 x 33"	⁵ /8"-18	1/2"-20, 1/2"-13, 3/4"-16, 3/4"-10,
Complete Puller Set	Side rods in s	set are provided 2 each i	n 5", 10", and 20	" lengths.	3/8"-24, 3/8"-16, 5/16"-24, 5/16"-18,
		•		•	⁷ /16"-20, ⁵ /8"-18, ⁵ /8"-11, ⁷ /16"-14
CJ84C	This is the Co	J840C less all adaptors a	and side rods exce	pt 5/8"-18 x 10".	
Basic Puller Set		•		•	

Bar Type Manual Push/Pull Sets



6-ton Capacity (5.4 t), Push/Pull

	Max. Reach,	Max. Spread,	Pressure Screw Size,	Pressure Screw		Side Rod
Stock No.	in. (mm)	in. (mm)	inches	Adaptors	Side Rods	Adaptors
CG706	14 ¹ / ₈ (358)	2 ⁵ /8-7 ¹ /2 (67-191)	5/8"-18 x 10"	_	⁷ /16"-14 x 8"	7/16"-14f x 5/8"-18m
Push/Pull Set					(4 each)	

10-ton Capacity (9.1 t), Push/Pull

Stock No.	Max. Reach, in. (mm)	Max. Spread, in. (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods
CG710	17 ⁵ /8 (448)	3 9/16-9 3/8 (90-238)	3/4"-16 x 12"	CG710-3	(2) ⁵ /8"-18 x 8",
Push/Pull Set				3/4"-16f x 5/8"-18m	(2) ⁵ /8"-18 x 12"



Bar Type Hydraulic/Manual Sets



6-ton Capacity (5.4 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods	Side Rod Adaptors
CG656HY* Hydraulic Set	14 ¹ / ₈ (358)	2 ⁵ /8-7 ¹ / ₂ (67-191)	⁵ /8"-11 x 13 ³ /4"	5/8"-11f x 5/8"-18m	⁷ / ₁₆ "-14 x 8"	⁷ /16"-14f x ⁵ /8"-18m
CG656	This is the CG656	HY Set less the hydrau	ilic components.			

10-ton Capacity (9.1 t), Hydraulic

CG150HY*	17 ⁵ /8 (448)	3 ⁹ /16-9 ³ /8	³ /4"-10 x 16 ¹ /4"	3/4"-10f x 5/8"-18m	,	_
Hydraulic Set		(90-238)		³ /4"-10f x ³ /4"-16m	5/8"-18 x 12"	
CG150	This is the CG656H	Y Set less the hyd	raulic components.			

^{*}Included with hydraulic ram.

20-ton Capacity (18.1 t), Hydraulic

Hydraulic Set			1 ¹ /8"-8 x 20 ¹ /2"	_	⁷ /8"-14 x 20", ⁷ /8"-14 x 10"	⁷ /8"-14f x ⁷ /8"-14m, ⁷ /8"-14f x ⁵ /8"-18m
CG450HYA2S*	This is the CG45	50HY Set with two sta	ge pump.			
CG450	This is the CG45	50HY Set less the hydrony	raulic components.			
CG350*	This is the manu	ually operated version	of the CG450.			

*Included with hydraulic ram.



CG450HYA

35-ton Capacity (31.7 t), Hydraulic

22 to cap.	(2	.,,,				
CG750HY*	26 (660)	8 ¹ /2-17 (216-432)	1 3/8"-8 x 25"	1 3/8"-8f x 7/8"-14m	1"-14 x 20",	1"-14f x ⁷ /8"-14m,
Hydraulic Set					1"-14 x 10"	7/8"-14f x 3/4"-16m
CG750HY2S	This is the CG	750HY Set with two stage	pump.			
CG750	This is the CG	750HY Set less the hydraul	ic components.			

^{*}Included with hydraulic ram.





Pullers Hydraulic Power Units

Features of Two Stage Hydraulic Pumps

- Two stage design will advance 20 to 50-ton rams in the low pressure stage in less than 1/3 the strokes required on other models
- CG520 Ram extends in 60 to 70 strokes



4 to 10-ton Pump 5 fl. oz. capacity.

- CG420 Ram extends in 17 to 19 strokes
- . When high pressure is required, the low pressure stage automatically kicks out to leave the high pressure stage to do the work



One Stage 20, 35, 50-ton Pump 24 fl. oz. capacity.



Two Stage 20, 35, 50-ton Pump 24 fl. oz. capacity.



6-ton Ram



20-ton Ram



50-ton Ram

CG222 4-Ton Set Includes: CG120-3-1 Hose CG120-4 **Coupler Set** CG220 4-Ton Ram CG220-13 Pressure Screw 4 to 10-Ton Hyd. Pump CG4-2A

CG652 6-Ton Set Includes: CG120-3-1 CG120-4

Coupler Set CG250-20 Replacement Point 4 to 10-Ton Hyd. Pump CG4-2A CG650 6-Ton Ram

CG122 10-Ton Set Includes: CG120 10-Ton Ram

CG120-13 **Pressure Screw** CG120-3-1 Hose CG120-4 Coupler Set CG270-20

Replacement Point CG4-2A 4 to 10-Ton Hyd. Pump CG420A 20-Ton Set

Includes: CG420-1-14 **Centering Adaptor** CG420-1A 20-Ton Ram CG420-2A 1 Stage Pump

CG420-3-1 Hose **Coupler Set** CG420-4 CG420A2S 20-Ton Set Same as CG420A with the CG420-2S Two Stage Pump.

Ram (Cylinder) Specifications

Capacity,	Stock No.	Stroke, inches	Collapsed Height, inches	Extended Height, inches	Effective Area (piston)	Oil Capacity, cu. in.	Pressure Screw Size, inches
4	CG220	2 ¹ / ₄	6	8 ¹ / ₄	.966	2,174	1/2-13 x 14 1/4
6	CG650	1 ¹ /2	4 ¹¹ / ₁₆	6 ³ /16	1.473	2,210	⁵ /8-11 x 13 ¹ / ₄
10	CG120	1	4 ³ / ₄	5 ³ /4	2.440	2,440	³ /4-10 x 16 ¹ /4
20	CG420-1A	2	6	8	4.418	8,836	1 1/8-8 x 20 1/2
35	CG720	2 ¹ / ₂	7	9 ¹ / ₂	7.903	19,758	1 ³ /8-8 x 25
50	CG520	3	8 ¹ / ₈	11 ¹ /8	11.066	33,198	1 ⁵ /8-5 ¹ /2 x 30



Hydraulic Accessories

Both conversion kits provide hydraulic power for the pullers, which are included in the CG2500B Puller Sets.



CG420-5C Pressure Gauge.

Can be used with 6-ton, 10-ton, 20-ton, 35-ton, and 50-ton hydraulic equipment. Use CG4-2A, CG420-2A, or CG420A-2S Pumps. Indicates hydraulic pressure in tons of pressure as well as psi. Adaptor CG420-6 is required to attach gauge to pumps.



CG420-5C

CG6223 6-Ton Power Kit. Converts CG250 and CG253 Manual Pullers to hydraulic power. Includes:

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CG652 6-Ton Pump and Ram Set CG250-15 2-Jaw Yoke CG250-16 Hand Wheel Adaptor CG253-15 3-Jaw Yoke

CG1224 10-Ton Power Kit. Converts CG270, CG273, CG280, and CG283 Manual Pullers (on Tool Control Panel "A") and CG1700/CG2500B Puller Sets to hydraulic power. Includes:

CG122 10-Ton Pump and Ram Set CG270-15 2-Jaw Yoke

CG270-16 Hand Wheel Adaptor CG273-15 3-Jaw Yoke

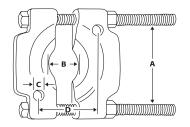


CG420-6 Gauge Mounting Adaptor. Mounts CG420-5C Pressure Gauge to 6-ton, 10-ton, 20-ton, 35-ton, and 50-ton hydraulic systems.

Bearing Separators **Pullers**

CJ952

Bearing Separators. For separating and pulling double bearings and close fitting gears. Use with tapped hole, 2-jaw pullers, or floor presses.





Bearing Separators

Stock No.	Α	В	В	С	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	³ /4"-16	14 ⁷ / ₁₆

CJ9500 Bearing Separator Set. Includes CJ950, CJ951, and CJ952 (3 pcs).

Bar Type Puller Adaptors







Male and female adaptors add versitility to the pulling and pushing capabilities of bar style pullers. They serve to change the diameter and/or thread pitch of pressure screws and side rods to accomodate the item being pushed or pulled. The unthreaded male ends of bull nose adaptors are good for many pushing operations.

Male Adaptors

CJ84-17

Stock No.	Female Thread	Male Thread
CG656-12	7/16"-14	5/8"-18
CG656-13	5/8"-11	5/8"-18
CJ84-6	5/8"-18	5/16"-24
CJ84-15	⁵ /8"-18	5/16"- 18
CJ84-7	5/8"-18	3/8"-24
CJ84-10	5/8"-18	3/8"-16
CJ84-8	⁵ /8"-18	⁷ /16 "-20
CJ84-18	⁵ /8"-18	⁷ /16" -14
CJ84-9	⁵ /8"-18	¹ /2" -20
CJ84-11	⁵ /8"-18	¹ /2"-13
CJ84-17	⁵ /8"-18	⁵ /8"-18
CJ84-12	⁵ /8"-18	⁵ /8"-11
CJ84-13	⁵ /8"-18	³ /4"-16
CJ84-14	⁵ /8"-18	³ /4"-10
CG710-3	³ /4"-16	⁵ /8"-18
CG150-12	3/4"-10	⁵ /8"-18
CG150-13	³ /4"-10	³ /4"-16
CG46-7*	³ /4"-10	1"-14
CG46-8**	³ /4"-16	1"-14
CG750-9	1"-14	³ /4"-16
CG750-10	1"-14	⁷ /8"-14
CG455-18	1 ¹ /8"-8	⁵ /8" -18
CG455-19	1 ¹ /8"-8	⁷ /8"-14
CG47-420	1 ¹ /8"-8	1 ¹ /4"-12
CG550-9	1 ³ /8"-6	1 ³ /4"-12
CG455-1	7/8"-14	5/8" -18
CG455-2	⁷ /8"-14	⁵ /8"-11
CG455-3	⁷ /8"-14	³ /4"-16
CG455-4	⁷ /8"-14	⁷ /8"-10
CG455-5	⁷ /8"-14	⁷ /8"-9
CG455-6	⁷ /8"-14	1"-14
CG455-7	⁷ /8"-14	1"-8
CG455-8	⁷ /8"-14	1 ¹ / ₈ "-12

^{*}For attaching CG46 Series Pullers to CG105HY Hydraulic Bar Style Puller.



CG455-9



CG455A

Female Adaptors

•	
Stock No.	Female Thread
CG455-9	7/8"-14 and 5/8"-18
CG455-10	7/8"-14 and 3/4"-16
CG455-11	7/8"-14 and 1"-14
CG455-12	7/8"-14 and 1 1/8"-8
CG455-13	7/8"-14 and 1 1/8"-12
CG455-14	7/8"-14 and 1 1/4"-8
CG455-15	7/8"-14 and 1 1/4"-12
CG455-17	⁷ /8"-14 and 1 ¹ /2"-12
CG455-16	7/8"-14 and 1 1/2"-8

CG455A Female Adaptor Set. Includes two each of the female adaptors (18 pcs).





[•] Read additional safety precautions on page 351, and 534 to 537.

^{**}For attaching CG46 Series Pullers to CG710 Push/Pull Set.

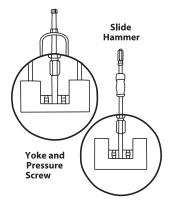
^{***}For attaching CG47 Series Pullers to CG450HYA Hydraulic Bar Style Puller. **CG455 Male Adaptor Set.** Includes two each of the male adaptors CG455-1 through CG455-8 (16 pcs).

Pullers Blind Hole Bearing

Set Components

Set Compon	iciits
Stock No.	Description
CG40-11	Collet, 43/64"-53/64"
CG40-12	Collet, 15-18mm
CG40-4-1	Collet Extension, 4" long
CG46-8	Manual Adaptor
CG46-7	Hydraulic Adaptor
CG47-420	Hydraulic Adaptor
CG250-8A	Slide Screw, 5/8"-18 x 18 9/16"
CG250-9	Slide Hammer, 2 lb.
CG40-1	Pressure Screw, 5/8"-18 x 7 3/4"
CG40-2	Nut, 15/16" Wrench Size
CG40-3	Yoke, 3 1/4" Spread
CG41-11	Expanding Rod
CG41-14	Collet, 1/4"-5/16"
CG41-12	Collet, 5/16"-3/8"
CG41-13	Collet, 3/8"-7/16"
CG40-4	Expanding Rod
CG40-9	Collet, 7/16"-1/2"
CG40-15	Collet, 1/2"-5/8"
CG40A6	Collet, 5/8"-3/4"
CG40-7	Collet, 3/4"-7/8"
CG40-8	Collet, 7/8"-1"
CG40A10	Collet, 1"-1 1/8"
CJ105-4B	Slide Screw, 3/4"-16 x 22 1/2"
CJ97-3A	Slide Hammer, 3 3/4 lb.
CG270-1A	Pressure Screw, 3/4"-16 x 9 1/2"
CG45-2	Nut, 1 1/8" Wrench Size
CG45-3	Yoke, 5 3/4" Spread
CG45-4	Expanding Rod for:
CG45-15	Collet, 1"-1 1/4"
CG45-6	Collet, 1 ¹ /4"-1 ¹ /2"
CG45-7	Collet, 1 ¹ / ₂ "-1 ³ / ₄ "
CG46-1	Slide Screw, 1"-14 x 18"
CG46-2	Slide Hammer, 6 lb.
CG46-3	Expanding Rod
CG46-4	Collet, 1 5/8"-2"
CG46-5	Collet, 2"-2 ¹ / ₂ "
CG46-6	Collet, 2 1/2"-3"
CG4567N	Slide Screw, 1 1/4"-12 x 24"
CG45670	Slide Hammer, 10 lb.
CG47-201	Expanding Rod for:
CG47-202	Master Collet
CG47-203	Collet Pad, 3"-3 1/2" (3)
CG47-204	Collet Pad, 3 1/2"-4" (3)
CG47-205	Collet Pad, 4"-4 1/2" (3)
CG47-206	Collet Pad, 3 1/2"-5" (3)
CG47-207	Collet Pad, 5"-5 1/2" (3)
CG47-208	Collet Pad, 5 1/2"-6" (3)
CG47-209	Collet Pad, 6"-6 1/2" (3)
CG47-210	Collet Pad, 6 1/2"-7" (3)
CG47-211	Screw, 3/4" (3 sets of 2)
CG47-212	Screw, 1 3/4 (3 sets of 2)

These special pullers will pull blind hole bearings, bushings, and sleeves with inside diameters ranging from 1/4" to 7" where regular pullers won't reach. The operation is simple. After the special collet is inserted through the bearing or sleeve, a matched expanding rod is threaded into the collet and secured. Pulling can be done through bridge of bar type yokes or with side hammers.





CG40C Blind Hole Bearing Puller.

Includes 9 collets and yoke. Uses CG250-8A Slide Screw and CG250-9 Slide Hammer. Includes:

CG40-1	CG41-14	CG40-9	CG40-8
CG40-2	CG41-12	CG40-15	CG40A10
CC40 2	0044 42	CCAOAG	

CG41-11 CG40-4 CG40-7



CG45 (1"-1 3/4") Puller Set.

3 collets and yoke. Uses CJ105-4B Slide Screw and CJ97-3A Slide Hammer. Includes:

CG270-1A CG45-6 CG45-4 CG45-2 CG45-15 CG45-7 CG45-3



CG46-1

CG46-2



CG40-11 (43/64"-53/64") Collet.

For needle bearings on Leece-Neville alternators. Use with CG40-4 Expanding Rod.

CG40-12 (15-18mm) Collet.

For pilot bearings on late model Ford transmissions. Use with CG40-4 Expanding Rod.

CG40-4-1 (4" long) Collet Extension For CG40 Series Collets.

CG46-8 Manual Adaptor

For attaching CG46 Series Pullers to CG710 Push/Pull Set.

CG46-7 Hydraulic Adaptor

For attaching CG46 Series Pullers to CG105HY Hydraulic Bar Style Puller.

CG47-420 Hydraulic Adaptor

For attaching CG47 Series Pullers to CG450HYA Hydraulic Bar Style Puller.

CG46-3 Expanding Rod

CG2545A

CG2545A Blind Hole Bearing Puller.

Includes CG40C and CG45 Sets plus slide screw and

nammers. inclu	des:	
CG250-8A	CG40-8	CG45-15
CG250-9	CG40-9	CG45-2
CG270-1A	CG40A10	CG45-3
CG40-1	CG40A6	CG45-4
CG40-15	CG41-11	CG45-6
CG40-2	CG41-12	CG45-7
CG40-3	CG41-13	CJ97-3A
CG40-4	CG41-14	
CG40-7	CJ105-4B	



CG47 (3"-7") Puller Set.

CG46-3

CG46-4 CG46-6

Master collet and pads plus slide screw and hammer. Pulling size is changed by changing pads. Includes.

moidado.		
CG4567N	CG47-204	CG47-209
CG4567O	CG47-205	CG47-210
CG47-201	CG47-206	CG47-211
CG47-202	CG47-207	CG47-212
CG47-203	CG47-208	

Industrial Pullers





Industrial Puller Sets

CG1038KA Industrial Puller Set

Includes more than 35 basic pullers that will assemble into more than 165 puller combinations. Standard pullers in this set have a range from 2 to 20-ton. The hydraulic power components provide up to 20-ton of easy pulling power. Optional 10-ton and 50-ton hydraulic accessories are available. Components are mounted on four 24" x 32" x 3/4" tool control panels (labeled "A," "B," "C," and "D" below) with white silhouettes. The panels are mounted on KRA2130 A-Frame.

CG1038K Industrial Puller Set

This is the CG1038KA Set but does not include the KRA213D A-Frame.

CG1050KA Expanded Industrial Puller Set

Tool Control Boards

VEV113B Tool Control Board

Panel "A" is designed to hold the components for CG2500BS Interchangeable Puller Set (6, 7 1/2, 10, and 12 1/2-ton capacity).

CG250	Screw Type Puller	CG270S	Screw Type,
CG250H	Medium Slide Hammer		Special Grip
CG250HL	Medium Slide Hammer	CG273	Screw Type Puller
CG253	Screw Type Puller	CG273H	Large Slide Hammer
CG253H	Medium Slide Hammer	CG280	Screw Type Puller
CG270	Screw Type Puller	CG283	Screw Type Puller
CG270H	Large Slide Hammer		

VE138-3B Tool Control Board

Panel "B" is designed to hold CG2400 Light Duty Puller Set, CJ840C Tapped Hole Puller Set, CJ949 Bearing Separator, and CJ9500 Bearing Separator Set components.

CG240	Screw Type Puller	CJ840C	Bar Type Tapped Hole Puller
CG240H	Small Slide Hammer	CJ949	Bearing Separator
CG243	Screw Type Puller	CJ950	Bearing Separator
CG243H	Small Slide Hammer	CJ951	Bearing Separator
CJ93B	Small Slide Hammer	CJ952	Bearing Separator

Includes CG1038KA Set plus the CG1224 Power Kit for converting 10-ton manual pullers to hydraulic power; CG300-1, CG305-8, and CG350-1 Pressure Screws; CG343-1 4" Plug; CG350-2 Manual Yoke for converting the 20-ton hydraulic pullers to manual power; and CG555 Basic Hydraulic Set for building a 50-ton hydraulic bar type puller. Also includes CG420-5C Pressure Gauge, CG420-6 Gauge Mounting Adaptor, ten CG250-20 Small Centering Adaptors, and ten CG270-20 Large Centering Adaptors.

KRA213D A-Frame

Mobile unit features 23,220 cu. in., 1,260 sq. in. of storage for convenient access and orderly storage. Measures 26 1/2" W, 52 3/8" H, and 32 3/8" D.

VE138-2B Tool Control Board

Panel "C" is designed to hold CG450HYA 20-ton Hydraulic Bar Type Puller components and the components of CG2545AB Blind Hole Bearing Puller Set.

CG40C Blind Hole Bearing Set CG450 Bar Type Puller

CG45 Blind Hole Bearing Set CG450HYA Hydraulic Bar Type Puller

VE138-1B Tool Control Board

Panel "D" is designed to hold components of CG400 20-ton Jaw Type Puller, three CG305-9 Long Jaws, CG455 and CG455A Threaded Adaptor Sets, plus CG455-18 and CG455-19 Pressure Screw Adaptors. The adaptors are for use with the bar type pullers on tool control panel "C."

CG400 Jaw Type Puller

CG400HYA Hydraulic Jaw Type Puller

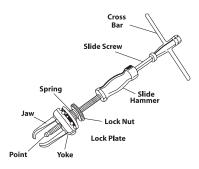
CG405 Jaw Type Puller

CG450HYA Hydraulic Bar Type Puller





Pullers Reference Charts



2-ton and 2 1/2-ton Puller Group (CG240 Series): 1 1/16 lb. Hammer (CG240H Series)

			Std.	Long			2-Jaw	3-Jaw				
	2-Jaw	3-Jaw	Pres.	Pres.	Slide	Slide	Lock	Lock				
Stock	Yoke	Yoke	Screw	Screw	Screw	Hammer	Plate	Plate	Spring	Adj. Nut	Std. Jaw	Long Jaw
No.	CG240-2	CG243-2	CG240-1	CG240-11	CG240-8	CG240-9	CG240-5	CG243-5	CG240-6	CG240-7	CG240-3	CG240-10
CG240	1	_	1	_	_	_	1	_	1	1	2	_
CG240L	1	_	_	1	_	_	1	_	1	1	_	2
CG240H	1	_	_	_	1	1	1	_	1	1	2	_
CG240HL	1	_	_	_	1	1	1	_	1	1	_	2
CG243	_	1	1	_	_	_	1	1	1	1	3	_
CG243L	_	1	_	1	_	_	_	1	1	1	_	3
CG243H	_	1	_	_	1	1	_	1	1	1	3	_
CG243HL	_	1	_	_	1	1	_	1	1	1	_	3

6-ton and 7 1/2-ton Puller Group (CG250 Series): 2 1/8 lb. Hammer (CG250H Series)

				A11.1.1						A		
	2-Jaw	3-Jaw	Pressure*	Slide*	Slide	Cross	Lock			Std. Jaw	Long Jaw	Pulling
Stock No.	Yoke	Yoke	Screw	Screw	Hammer	Bar	Plate	Spring	Adj. Nut	CG250-3	CG250-10	Plate
	CG250-2	CG253-2	CG250-1A	CG250-8A	CG250-9	CG10F	CG250-5	CG250-6	CG250-7			CG1
CG250	1	_	1	_		_	1	1	1	2	_	_
CG250A	1	_	1	_	_	_	1	1	1	2	_	1
CG250C	1	_	1	1	1	1	1	1	1	2	_	1
CG250H	1	_	_	1	1	1	1	1	1	2	_	_
CG250HL	1	_	_	1	1	1	1	1	1	_	2	_
CG253	_	1	1	_		_	1	1	1	3	_	_
CG253H	_	1	_	1	1	1	1	1	1	3	_	_
CG253L	_	1	1	_	_	_	1	1	1	_	3	_
CG2500B**	1	1	1	1	1	1	2	2	2	3	3	_

^{*}CG250-20 Replacement Point and CG250-21 Flat Point for CG250 Series. CG250-8A has 5/8" UNF threads.

10-ton and 12 1/2-ton Puller Group (CG270, CG280 Series): 3 1/2 lb. Hammer (CG270H Series)

								Z-Jaw	J-Jaw						
	2-Jaw	3-Jaw	Std. Pres.*	Long Pres.*	Man.	Slide*	Slide	Lock Plate	Lock Plate					Special	Extra
Stock	Yoke	Yoke	Screw	Screw	Adaptor	Screw	Hammer	CG270-5	CG273-5	Spring	Lock Nut	Std. Jaw	Long Jaw	Jaw	Long Jaw
No.	CG270-2	CG273-2	CG270-1A	CG270-11A	CG270-13	CG270-8A	CG66-2			CG270-6	CG270-7	CG270-3	CG270-10	CG270-3S	CG270-12
CG270	1	_	1	_	_	_	_	1	_	1	1	2	_	_	_
CG270A	1	_	1	_	_	_	_	1	_	1	1	2	_	_	_
CG270C	1	_	1	_	_	1	1	1	_	1	1	2	_	_	_
CG270H	1	_	_	_	_	1	1	1	_	1	1	2	_	_	_
CG270S	1	_	1	_	_	_	_	1	_	1	1	_	_	2	_
CG272	1			1	_	_	_	1	_	1	1	_	2	_	_
CG273A	_	1	1	_	_	_	_	_	1	1	1	3	_	_	_
CG273C	_	1	1	_	_	1	1	_	1	1	1	3	_	_	_
CG273H	_	1	_	_	_	1	1	_	1	1	1	3	_	_	_
CG280	1	_	_	1	_	_	_	1	_	1	1	_	2	_	_
CG283	_	1	_	1	_	_	_	_	1	1	1	_	3	_	_
CG284	1	_	_	1	1	_	_	1	_	1	1	_	_	_	2
CG285	_	1	_	1	1	_	_	_	_	1	1	_	_	_	3
CG2500B	31	1	1	1	_	1	1	1	1	2	2	3	3	3	

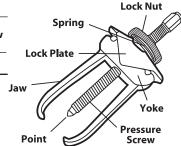
^{*}CG270-20 Replacement Point for CG270 / CG280 series pullers. CG270-8A has 3/4"-16 UNF threads.

CG270-21 Flat Point for CG270 / CG280 series pullers.

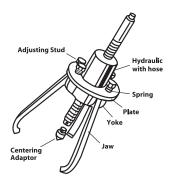
20-ton Pullers (CG300 Series)

			/					
		Pressure	Pressure					
Stock	2-Jaw Yoke	Screw	Screw	Lock Plate	Spring	Lock Nut	Std. Jaw	Long Jaw
No.	CG300-2	CG300-1	CG305-8	CG300-5	CG300-6	CG300-7	CG300-3	CG305-9
CG300	1	1	_	1	1	1	2	_
CG305	1	_	1	1	1	1	_	2

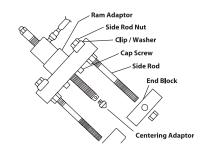
^{*}CG300-20 Replacement Point and CG300-21 Flat Point for CG300 and CG305 Series Pullers.



^{**}CG2500B continued in next chart



Reference Charts **Pullers**



Jaw Style Pullers (Hydraulic and Manual)

													Washers/Cap
	Hydraulic	Ram	Hydraulic		Pressure	4" Dia.					Side Arms/	Arm Bolts	Screws
Stock No.	Unit	Adaptor	Adaptor	Yoke	Screw	Plug	Plate	Spring	Adj. Stud	Jaws	Side Plate	Arm Nuts	
CG654HY	CG652	CG250-16	_	CG250-15	*	_	CG250-5	CG250-6	_	CG250-3 (2)	_	_	_
CG655HY	CG652	CG250-16	_	CG253-15	*	_	CG250-5	CG250-6	_	CG250-3 (3)	_	_	_
CG274HY	CG122	CG270-16	_	CG270-15	*	_	CG270-5	CG270-6	_	CG270-3 (2)	_	_	_
CG275HY	CG122	CG270-16	_	CG273-15	*	_	CG273-5	CG270-6	_	CG270-10 (3)	_	_	_
										CG270-3 (3)			
CG276HY	CG122	CG270-16	CG270-14	CG270-15	*	_	CG270-5	CG270-6 (4)	_	CG270-12 (2)	_	_	_
CG277HY	CG122	CG270-16	CG270-14	CG273-15	*	_	CG273-5	CG270-6 (4)	_	CG270-12 (3)	_	_	
CG400HYA	CG420A	_	_	CG400-2	*	_	CG400-5	CG400-6 (4)	CG400-7 (4)	CG300-3 (3)	_	_	_
CG343	_	_	_	CG400-2	CG300-1	CG343-1	CG400-5	CG400-6 (4)	CG400-7 (4)	CG300-3 (3)	_	_	_
CG405HYA	CG420A	_	_	CG400-2	*	_	CG400-5	CG400-6 (4)	CG400-7 (4)	CG305-9 (3)	_	_	_
CG348	_	_	_	CG400-2	CG305-8	CG343-1	CG400-5	CG400-6 (4)	CG400-7 (4)	CG305-9 (3)	_	_	_
CG425HYA	CG420A	CG425-9	_	CG325-2	*	_	_	_	_	CG325-3 (3)	CG325-4 (3)	CG325-5 (3)	CG425-8
CG325	_	_	_	CG325-2	CG325-1	_	_	_	_	CG325-3 (3)	CG325-4 (3)	CG325-6 (3)	_
CG560HY	See Hyd.	_	_	CG560-2	*	_	_	_	_	CG560-3 (3)	CG560-4 (6)	CG560-6 (9)	_
	Unit Chart											CG560-5 (9)	

Bar Style Pullers (Hydraulic and Manual)

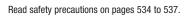
						Thrust				Side Rod			
					Pressure	Nut		Side Rod		Conn.	End	Side Rod	Cap
Set	Hyd. Unit		Pressure	Centering	Screw	Thrust	Side Rods	Hex Nuts	Clip/	Nuts	Blocks	Adaptors	Screw
Stock No.	Ram Adapt.	Yoke	Screw	Adaptor	Adaptor	Washer	(2)	(6)	Washer	(2)	(2)	(2)	(2 Each)
CJ84C	_	CJ84-1B	CJ84-4	CJ84-16	_	_	CJ84A2 (10")	_	ME5A16 (2)	_	_	_	_
CG706	_	CG656-2	CG706-1	CG250-20	_	CG325-6 CG706-2	CG656-3 (4) (8")	CG656-7	CG656-8 (4)	CG656-6	CG656-6	CG656-12	_
CG710	_	CG150-2	CG710-1	CG270-20	CG710-3	CG45-2 CG710-2	CG150-3 (12") CG150-4 (8")				CG150-6	_	_
CG656HY	CG652 CG656-9	CG656-2	*	_	CG656-13	_	CG656-3 (8")	CG656-7	CG656-8 (2)	CG656-5	CG656-6	CG656-12	CG656-11 CG656-10
CG656	_	CG656-2	_	_	CG656-13	_	CG656-3 (8")	CG656-7	CG656-8 (2)	CG656-5	CG656-6	CG656-12	CG656-11 CG656-10
CG150HY	CG122	CG150-2	*	*	CG150-12 (5%")	_	CG150-3 (12")				CG150-6	_	CG150-11
	CG150-9				CG150-13		CG150-4 (8")						CG150-10
CG150	_	CG150-2	_	_	CG150-12 (5%")	_	CG150-3 (12")				CG150-6	_	CG150-11
					CG150-13 (3/4")		CG150-4 (8")						CG150-10
CG450HYA	CG420A CG425-9	CG450-10	*	*	_	_	CG350-3 (18") CG350-4 (9")	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11 CG450-12
CG450	— CG425-9	CG450-10	_	_	_	_	CG350-3 (18") CG350-4 (9")	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11 CG450-12
CG350	CG420A CG425-9	CG350-2	CG350-1	_	_	_	CG350-3 (18") CG350-4 (9")	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11 CG450-12
CG750HY	See Hyd. Unit Chart	CG750-2	*	*	CG750-11 (7/8")	_	CG750-3 (20")	CG750-7	CG750-8 (2)	CG750-5	CG750-6	CG750-9	CG750-11
					CG750-13 (7%")	_	CG750-4 (10")					CG750-10	CG750-12
CG750	_	CG750-2	_	_	CG750-14 (1 1/8")	_	CG750-3 (20") CG550-3	CG750-7	CG750-8 (2)	CG350-5	CG750-6	CG750-9	CG750-11 CG550-10
	CG720-9	CG550-2			/		CG750-4 (10")	CG550-7				CG750-10	CG750-10

^{*}Included with hydraulic ram (see chart below).

Hydraulic Power Units

Stock	Capacity,		Included with Ram Pressure	Included with Ram Centering				Optional Pressure	Items* Gauge
No.	tons	Ram	Screw	Adaptor	Hose	Coupler	Pump	Gauge	Adaptor
CG222	4	CG220	CG220-13	_	CG120-3-1	CG120-4	CG4-2A	_	_
CG652	6	CG650	CG650-13	CG250-20	CG120-3-1	CG120-4	CG4-2A	CG420-5C	CG420-6
CG122	10	CG120	CG120-13	CG270-20	CG120-3-1	CG120-4	CG4-2A	CG420-5C	CG420-6
CG420A	20	CG420-1A	CG420-1-13A	CG420-1-14	CG420-3-1	CG420-4	CG420-2A	CG420-5C	CG420-6

^{*}Standard with CG559 Bar Style Puller Set.



Pullers Bar Style Interchangeables

Interchangeable bar style 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 means 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 style pullers also feature:

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



CJ83C Pulley and Gear Puller. Ideal for servicing crankshaft pulleys and gears and timing gears on a wide range of gasoline and diesel engines including Cummins accessory drives and water pumps. Includes two each $3/8"-16 \times 3"$, $5/16"-18 \times 2 1/2"$, and M10-1.5 x 65mm bolts. Nominal capacity is 3.5-tons. Use to remove accessory drive pulley (replace with M1324). Includes yoke; two each $3/8"-16 \times 3"$, $5/16"-18 \times 2 1/2"$, and M10-1.5 x 65mm studs; and $3/4"-16 \times 5"$

pressure screw. Includes:

moluues.			
CJ86-1	Yoke	ME5A55	Washer
CJ83-3	Pressure Screw	ME3A45	Studs (2)
CJ66-15-3	Centering Point	ME3A44	Studs (2)
MF5A54	Washer (1 needed)	ME3A75	Studs (2)

CJ83C



CJ82B Pitman Arm Puller. Handles many Pitman arm applications plus a wide variety of general pulling jobs. Nominal capacity is 6-tons. Includes:

CJ86-1 Yoke
CJ83-2 Pressure Screw
CJ66-15-3 Centering Point
CJ81-2A Jaws (2)

CJ86-4 Clamp Bolt CJ85-4 Washer (2) ME4A33 Clamp Nuts (2) CJ105-11 Jaw Pins (2)



CJ85A Truck Differential Side Bearing Puller. Similar in appearance to CJ81D but bigger for handling truck applications. Four centering plates included. Nominal capacity is 7.5-tons.

Includes: CJ85-1 ME4A33 Clamp Nuts (2) CJ83-2 **Pressure Screw** CJ105-11 Jaw Pins (2) CJ66-15-3 Centering Point CJ85-5 Adaptor CJ85-6 CJ85-2 Adaptor Jaws (2) CJ85-3 Clamp Bolt CJ85-7 Adaptor CJ85-4 Washer (2) CJ85-8 Adaptor

Puller Specifications

Stock No.	Nominal	Maximum	Maximum	Pressure
	Capacity,	Reach,	Spread,	Screw Size,
	tons	inches	inches	inches
CJ83C CJ82B CJ81D CJ85A CJ80A	3.5 6 6 7.5 7.5	Variable 2 ¹ / ₄ 1 ⁵ / ₈ 1 ³ / ₄ D3: 1 ⁵ / ₈ , D5: 1 ³ / ₈	5 3 ³ / ₈ 3 ³ / ₈ 5 ¹ / ₂	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 4 1/4 3/4-16 x 3 1/2



CJ81D Differential Side Bearing Puller. Narrow jaws slip into housing grooves in back of bearing and let jaws seat and pull along with inner race. Jaws are locked onto bearing by clamp bolt. Four centering plates are included. Nominal capacity is 6-tons.

Includes

includes:			
CJ86-1	Yoke	ME4A33	Clamp Nuts (2)
CJ105-3	Pressure Screw	CJ105-11	Jaw Pins (2)
CJ66-15-3	Centering Point	CJ81B1A	Adaptor
CJ81-2A	Jaws (2)	CJ81B2A	Adaptor
CJ86-4	Clamp Bolt	CJ81D1A	Adaptor
CJ85-4	Washer (2)	CJ81D2A	Adaptor



CJ80A

CJ80A A/C Pulley Puller. Also excellent for 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 7.5-tons. Includes:

CJ85-1	Yoke	CJ85-3	Clamp Bolt
CJ83-3	Pressure Screw	CJ85-4	Washer (2)
CJ66-15-3	Centering Point	ME4A33	Clamp Nuts (2)
CJ81-2A	Jaws (2)	CJ105-11	Jaw Pins (2)
CJ87-1	Jaws (2)		` ,

Pullers Interchangeable Puller Sets





CJ2002

Gear Puller Set

CJ2002 Gear Puller Set. Use on Pitman arms, timing gears, carrier side bearings, and more. Makes any of ten different pullers. Capacity is from 6 to 10-tons depending on yoke and jaws used. Includes:

iiilliuulis.			
CJ105-11	Long Jaw Pin (4)	CJ87-1	3" Jaw (2)
CJ282-1	6" Jaw (2)	ME4A33	Hex Nut (4)
CJ82B	Puller	CJ66-15-3	3 Centering Point
CJ83-3	Pressure Screw (%16" Hex)	CJ81-2A	Jaw (2)
CJ84-16	Centering Point	CJ83-2	Pressure Screw
CJ85-1	Yoke (3"-6 ½")	CJ86-4A	Bolt
CJ85-3A	Bolt	CJ86-1	Yoke (1 ¾"- 4 ½")
C 10E 4	Washer (4)		•



CJ2004

Interchangeable Puller Set

CJ2004 Interchangeable Puller Set. Use on bearings, bearing races, gears, bushing retainers, etc. Builds any of 12 different pullers. 2 and 3-jaw capability with three sets of jaws. All jaws reverse for inside and outside pulls. Pulling capacity: (short jaws) 4 1/2-ton, (medium jaws) 6 1/2-ton, (large jaws) 8-ton. Includes:

ton, (medium jaws) 6 1/2-ton, (large jaws) 8-ton. Includes:						
3-Way Jaw Control	CJ105-3	Pressure Screw				
2-Way Jaw Control		(¾"-16 x 13")				
Yoke	CJ105-5	Small Jaw (3)				
Short Jaw-to-Control Pin (3)	CJ105-6	Medium Jaw (3)				
Long Jaw Pin (4)	CJ105-7	Large Jaw (3)				
Cross Bar		Centering Point Yoke (1 ¾"- 4 ½")				
	3-Way Jaw Control 2-Way Jaw Control Yoke	3-Way Jaw Control 2-Way Jaw Control Yoke CJ105-5 Short Jaw-to-Control Pin (3) CJ105-6 Long Jaw Pin (4) CJ105-7 Cross Bar CJ66-15-3				

These puller sets are designed to give you the tools you need as your work grows. Start with one or more sets geared to specific tasks and build toward the ultimate in time saving pulling tools, the CJ2000A Set with the display board and cabinet. There's no duplication in set contents or jaws. The yokes are interchangeable for added versatility.

Master Interchangeable Puller Set

CJ2000SB Master Interchangeable Puller Set. Includes all components for the CJ2001, CJ2002, CJ2003A, CJ2004, and CJ2005 Puller Sets on VE200A Tool Control Board and KRA276D Locking Wall Storage Cabinet.

CJ2000S Master Interchangeable Puller Set. Same as the CJ2000SB without the Wall Cabinet.

CJ2000A Master Interchangeable Puller Set. Same as the CJ2000SB without the Wall Cabinet or the Tool Control Board.



CJ2003A

Rear Axle Puller Set

CJ2003A Rear Axle Puller Set. Slide hammer power pulls many flange type rear axles as well as axle bearings.

includes:			
CJ105-4E	Slide Screw,	CJ137	Bearing Adaptor
	34"-16 x 22-1/2"	CJ97-3A	Slide Hammer, 3 ¾ lb.
CJ123-1	Axle Yoke	ME4A8	Lock Nut (¾")
CJ127A	Bearing Adaptor	CJ66-19	Bearing Hook
CJ128A	Rearing Adaptor		=

CJ Series Bearing Adaptors

Stock No.	Swivel Head Width, inches	Swivel Head Length, inches	Overall Length, inches
CJ127A	1.2	2.03	3.02
CJ128A	1.2	2.31	3.15
CJ137	1.2	2.9	3.24



Accessory Set

CJ2005 Accessory Set. Boost the versatility of the CJ2000A components with a bearing separator, a variety of centering adaptors, and a 12" yoke and clamp bolt to add spread to your bar type set.

Adaptor	CJ85-6	Adaptor
(1 1/8"-1 1/2" Dia.)		(1 ²¹ / ₃₂ "-2 ½" Dia.)
Adaptor	CJ85-7	Adaptor
(1 ¹ / ₄ "-1 ⁵ / ₈ " Dia.)		(1 ²⁷ / ₃₂ "-2 ½" Dia.)
Adaptor	CJ85-8	Adaptor
(1 1/8"-1 5/8" Dia.)		(2 %"-3 1/16" Dia.)
Adaptor	CJ118-1	Yoke (6"-10 ½")
(13/16" - 1 11/32" Dia.)	CJ118-2A	Bolt
Jaw (1 ¾" Max. Reach)	CJ950	Bearing Separator
Adaptor		
(1 ½"-2" Diameter)		
	(1 1½"-1 ½" Dia.) Adaptor (1 ½"-1 5%" Dia.) Adaptor (1 ½"-1 5%" Dia.) Adaptor (1¾"-1 5%" Dia.) Adaptor (1¾" - 1 11½" Dia.) Jaw (1 ¾" Max. Reach) Adaptor	(1 1½"-1 ½" Dia.) Adaptor CJ85-7 (1 ½"-1 5½" Dia.) Adaptor CJ85-8 (1 ½"-1 5½" Dia.) Adaptor CJ118-1 (1¾6" - 1 1½2" Dia.) CJ118-2A Jaw (1 ¾" Max. Reach) Adaptor

Special Purpose **Pullers**



Bolt Grip Puller Set

CJ2001P Bolt Grip Puller Set. Services steering wheels, flywheels, pulleys, and gears with tapped holes. Includes a four-position two and three-way yoke, three different pressure screw tips, and an assortment of fractional and metric bolts. Approximate spread to bolt is 1 1/4" to 3 13/16". Includes PB54B storage case.

CJ2001FBK Bolt and Washer Set. Replaces all fractional bolts and washers in CJ2001P Bolt Grip Puller Set.

CJ2001MBK Bolt and Washer Set. Replaces all metric bolts and washers in CJ2001P Bolt Grip Puller Set.



CG60GB

Tapped Hole Puller Set

CG60GB Tapped Hole Puller Set. Use on steering wheels with tapped holes. Includes two and three-way yoke, pressure screw, and adaptor plus four sets of studs. **CG60R1**

CG60-17 Stud (M8-1.25) (2) CG60-7-4A CG60-7-6

CG60M2

Stud (5/16"-24) (2) Stud (5/16"-18) (3) Stud (3/8"-16) (3) **CG60R2 CG60R3**

Yoke Pressure Screw (5/8"-18) (1) Four-Arm Yoke (1) Pressure Screw

Adaptor (1)



CJ93B

Small Slide Hammer Puller Set

CJ93B Small Slide Hammer Puller Set. Remove bushings, seals, sleeves, bearings, bearing races, bronze and oilite bushings, and pressed in studs. Includes two sets of jaws, grease retainer adaptor, bearing hook, body dent puller, stud pulling head, and 2 lb. slide hammer. Thread size is 3/8"-16.





Small / Pilot Bearing Pullers

A78 Small Bearing Puller. For bearings and bushings typically found in small electric motors. Includes large jaw set for bronze and oilite bushings and small jaw set for smaller bearings and bushings. Up to 3-tons of

SP2031 Pilot Bearing Puller. Attaches to slide hammer shafts with 3/4"-16 or 5/8"-18 threads. Pressure screw adaptor is made of stressresistant steel. Industrial finish.

Automotive

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

CG95B Steering Wheel Lock Plate

Remover. Designed for airbag equipped Saginaw steering columns found on GM, Chrysler LH Series (LHS, Intrepid, Concorde, and Eagle Vision), some Toyota, and Saab. Includes one narrow bridge, one wide bridge, two pressure screws: one has 9/16"-18 threads, the other has M14-1.5 threads. The puller is zinc plated. Overall length is 4 7/8".





CG6095A

CG6095A Master Steering Wheel Puller Set.

Combines the CG60GB Tapped Hole Puller and CG95B Lock Plate Remover. Lock Plate Remover is designed for servicing airbag equipped Saginaw steering columns found on GM, Chrysler LH Series (LHS, Intrepid, Concorde and Eagle Vision), some Toyota and Saab.

CJ145 GM Steering Wheel Puller.

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



CJ131P Steering Wheel Puller and Lock Plate Depressor Set.

Includes a selection of bolts and a handle in PB72 Storage Case for servicing GM, Ford, Chrysler, and AMC cars. Adaptors are included for servicing lock plates on all GM and AMC vehicles with tilt wheel. Detachable handle helps hold puller when turning force is applied to pressure screw. Industrial finish.





• Read additional safety precautions on pages 534 to 537

Pullers Automotive

Power Steering and Alternator Pullers



CJ138 Pulley Installer. 8mm pulley installer features a thrust bearing for easier installation and a black industrial finish. Applications include power steering pulley on Ford 4.6L V8 (1991 and later), Ford 2.5L V6 (1995 and later), plus the installation of water pump drive pulleys on GM 4.6L (1992 and later Northstar), and 4.0L V8 (1995 and later Oldsmobile Aurora).



CJ113B Power Steering/Alternator Pulley Installer. Designed for domestic cars. 1" pulley driver hex, 7/16" pressure screw hex, and 3/8"-16 thread. 4 5/8" long.

CJ113B3 Bushing. Included with CJ113B.

CJ113C4 Pulley Installer Shaft. (Optional). Thread size of 5/8"-18UNF (puller end), 3/8" 16UNC (alternator end).



Harmonic Damper Pulley Pullers

YA6490 Harmonic Damper Pulley Puller. Use on many Chrysler, Mitsubishi and GM engines. In most applications this compact tool eliminates the need to remove the radiator prior to removing the pulley. Includes short push rod for use on crankshafts that are not drilled full depth plus two other push rods. Applications: GM:4.2L Straight 6 cylinder: Chevy Trailblazer, GMC Envoy, Olds Bravada (2003 and later), Buick Rainier (2004 and later), 3.5L Straight 5 cylinder: Chevy Colorado, GMC Canyon (2004 and later), Hummer H3 (2006 and later), 2.8L Straight 4 cylinder: Chevy Colorado, GMC Canyon (2005 and later), 5.7L V8 (Gen III): Camaro, Corvette, Firebird and Trans-Am (1997 and later), Gen III trucks and SUV's with 4.8L V8, 5.3L V8, 6.0L V8 and 8.1L V8 (2000 and later) CHRYSLER: 3.3L V6: (1990 and later vans), 3.3L and 3.5L V6 (1993-1997 automobiles), 3.8L V6 (1994 and later vans), 8.0L V10 (1994 and later pickups), 2.0L 4 Cylinder, 2.4L 4 Cylinder and 2.5L V6 (1995 and later automobiles), 2.7L DOHC V6, 3.2L SOHC V6 and 3.5L SOHC V6 (1998 and later automobiles), 4.7L V8 (1998 and later) CADILLAC: 4.5L V8: (1988-1992), 4.9L V8: (1991-1995), 4.6L V8: (1993 and later), 6.0L V8: Escalade, MITSUBISHI: 2.0L DOHC non-turbo: Eclipse (1995-1999),

OLDSMOBILE: 4.0L V8: (1995 and later)

YA6491 Harmonic Damper Pulley Puller Update Kit. Updates earlier YA9740 Pullers to the same applications as the new YA6490. Kit will also update other pulley pullers that are similar to the YA9740 Series of pullers. Add YA6491 Update Kit to existing YA9740 Series Pullers to add these new applications: GM: 4.2L Straight 6 cylinder: Chevy Trailblazer, GMC Envoy, Olds Bravada (2003 and later), Buick Rainier (2004 and later), 3.5L Straight 5 cylinder: Chevy Colorado, GMC Canyon (2004 and later), Hummer H3 (2006 and later), 2.8L Straight 4 cylinder: Chevy Colorado, GMC Canyon (2005 and later)

CJ146 GM Crankshaft Harmonic Balancer Kit.

Remove the crankshaft harmonic balancer on 1990 and later 3.3L and 3.8 GM engines. Shoulder bolt adaptors provide correct installation depth, preventing damage to the crank sensor and interrupter rings. Includes (3) CJ146-1 Adaptors and (1) CJ146-2 Extension plus vinyl storage pouch. Requires Snap-on® CJ98-1 Yoke and CJ83-3 Pressure Screw for use, which are separate purchases and not included with kit.



CJ117C Power Steering and Alternator Pulley Puller.

Includes short adaptor to remove small flange type pulley; use long adaptor on GM200/Platform vehicles. Can also remove Chrysler alternator pulleys that have double grooves. Replace pulleys with CJ113B Installer. Long adaptor included to handle pulleys on GM minivans. Nickel/chrome finish, industrial finish screw. Designed for most domestic cars. (Replace pulley with CJ122 sets). Long adaptor included to handle pulleys on GM minivans. Nickel/chrome finish, industrial finish screw.

CJ124A Power Steering/Alternator Pulley Puller.

Oldsmobile

• Intrique 1998

This is a larger version of CJ117C. Designed for Chrysler, Ford and earlier GM vehicles. CJ3PSA Power Steering and Alternator Pulley Puller/Installer Set. Set includes CJ113B, CJ117C, and CJ124A Pullers.

CJ147A Power Steering Gear Lower Pinion Bearing Puller.

• Cutlass 1997-1998

• Silhouette 1996-1998

Required tool to comply with GM Recall Bulletins #02049 and #03062 regarding Power Steering Gear Lower Pinion Bearing Separation. To correct the problem, inspect the condition of the lower pinion bearing and replace the lower pinion bearing. In a few cases, replacement of the rack and pinion steering gear assembly may be necessary. Instructions included with tool.

Applications:

Buick

• Regal 1996-1998

Chevrolet

• Cavalier 1996-1998

• Lumina 1997-1998

• Lumina APV 1996

• Monte Carlo 1997-1998

Venture 1997-1998

Pontiac

• Grand Prix 1996-1998

Sunfire 1996-1998

• Trans Sport 1996-1998

CJ132A Master Power Steering Pump/Alternator Puller/Installer Set. GM Quad 4, GM 3.1L and Ford 4.6L applications. Removes/installs press on,

Cutlass Supreme 1996-1998

belt driven accessory pulleys. Removal housing for grooved hub diameters of 1 1/8", 1 5/16", and 1 3/8". Includes components for 3/8"-16 threaded shaft. Housing holding bar prevents main housing from spinning during use with an impact wrench. Quad 4 Installation Nut simplifies usage with 4 cylinder GM vehicles. Includes instructions and carrying case.







PAS110

Pitman Arm Pullers CJ119B Pitman Arm Puller.

Designed for most domestic cars and light trucks.

Pressure screw size: 3/4"-16 x 6 7/8". Industrial finish.

CJ115 Pitman Arm Puller
Similar in design to CJ119B except it is designed for compact and intermediate size cars.

PAS110 Pitman Arm Puller.

Pitman Arm Remover for 2-ton and heavier trucks. Quickly and easily remove stuck Pitman arms. The tool wedge opens the Pitman arm slots for removal. Can also be used with impact wrench.