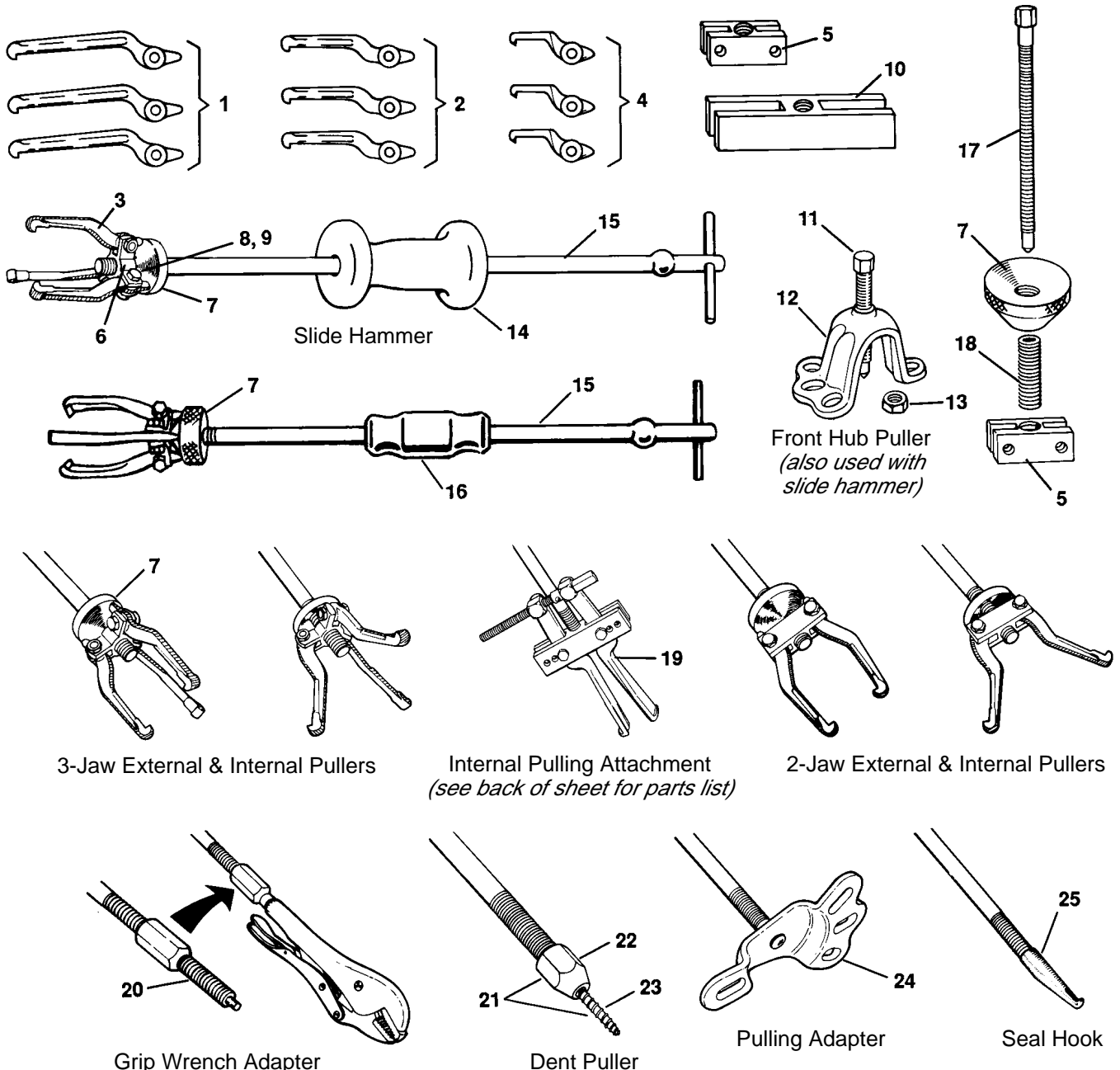


Parts List & Instructions

for:	1155	1176	1181
	1156	1177	1189
	1157	1178	7947
	1158	1179	7948

Slide Hammer Puller Sets

Slide hammer puller sets have several pulling attachments to give the user various methods for pulling, maintenance, and repair applications; the slide hammer exerts force when needed. Recommended assemblies for the slide hammer are shown in this parts list. *Note: Each set does not include all the attachments shown. Refer to the back of this sheet for the contents of each set.*



3-Jaw External & Internal Pullers

Internal Pulling Attachment
(see back of sheet for parts list)

2-Jaw External & Internal Pullers

Grip Wrench Adapter

Dent Puller

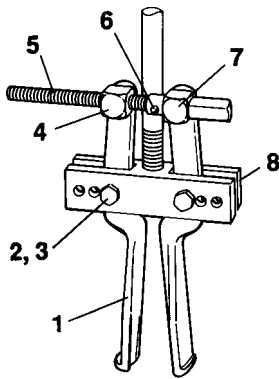
Pulling Adapter

Seal Hook

Note: If the grip wrench has a double lead thread, it will be necessary to order a double lead adapter (218875).

Item No.	Part No.	Description	Catalog Slide Hammer Set No.										
			1155	1156	1157	1158	1176	1181	1178	1179	1189	7947	7948
1	44148	6-1/2" Internal / External Puller Jaw							3		3		3
2	44195	4-1/8" Internal / External Puller Jaw							3				
3	34698	3-3/4" Internal / External Puller Jaw						3	3	3	3	3	3
4	32054	2-3/8" Internal Puller Jaw							3		3		3
5	27241	Cross Nut						1	1	1	1	1	1
6	24544	3-Way Puller Head						1	1	1	1	1	1
7	24545	Cone						1	1	1	1	1	1
8	10384	Hex Jam Nut						3	3	3	3	3	3
9	22021	Hex Hd. Cap Screw						3	3	3	3	3	3
10	36578	Cross Block							1				
11	24833	Forcing Screw									1		1
12	520968	Puller Head									1		1
13	10394	Hex Jam Nut									1		1
14	34331	Hammer (5 lb.)	1			1		1		1	1	1	1
15	208627	Shank & T-bar Assembly	1	1	1	1	1	1	1	1	1	1	1
16	22185	Hammer (2-1/2 lb.)		1	1			1	1				
17	309321	Forcing Screw									1		1
18	215895	Sleeve									1		1
19	1152	Internal Pulling Attachment (see below)			1	1							
20	205378	Vise Grip Adapter (single-lead thread) Note: If the grip wrench has a double-lead thread, it will be necessary to order a double lead adapter (218875).								1	1	1	1
21	205377	Dent Puller (contains Items 22 & 23)								-	-		
22	205399	Retainer								1	1	1	1
23	104427	Self-Tapping Screw								1	1	1	1
24	31599	Pulling Adapter								1	1	1	1
25	27315	Seal Hook							1	1	1	1	1

Internal Pulling Attachment (1152)

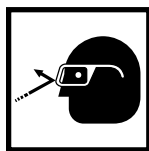


Item No.	Part No.	No. Req'd	Description
1	32137	2	4" Clearance Jaw
2	10054	2	Hex Hd. Cap Screw (3/8-24 x 1-1/2" Lg.)
3	10386	4	Jam Nut (3/8-24)
4	24847	1	Tapped Swivel
5	24846	1	Adjusting Screw
6	11560	1	Roll Pin
7	24848	1	Plain Swivel
8	33482	1	Puller Yoke

Safety Precautions



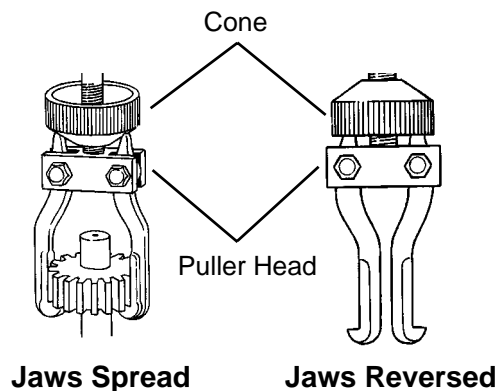
CAUTION: To avoid injury when using this tool,



- Wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Cover the work with a protective blanket or canvas to reduce danger from breaking parts.

- Adjusting strap bolts must be tight on puller jaws.
- Puller legs and jaws must be in-line and the setup must be rigid.
- Apply force gradually. If maximum force has been applied and the work piece has not moved, use a puller with a larger capacity. Do NOT hit the part with a hammer in an attempt to jar it loose.

Important: When using the jaws in the spread or reversed position as shown, thread the cone as close to the puller head as possible to ensure a firm grip on the part.

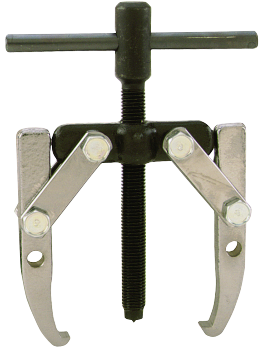


OTC®

Puller


Information

Safety



Safety Precautions

⚠ WARNING: To prevent personal injury when using pullers,

- Wear approved eye protection, such as safety glasses, goggles, or a face shield. 
- Inspect puller for dents, cracks, or excessive wear before use. Inspect forcing screw for signs of galling or seizing. Replace worn or damaged components.
- Do not exceed puller's rated capacity, spread, or reach. Use correct size of puller for application.
- Ensure puller is correctly aligned with application and seated on component to be removed. Jaws must be parallel to forcing screw.
- Do not use wrench extensions when applying a load.
- Cover application with a shield or protective blanket before force is applied to contain flying debris should breakage occur.
- Apply force gradually. Do not use an impact wrench to apply force unless instructions specify use with an impact wrench.
- Do not strike or "sledge" puller or component.
- Do not modify puller by grinding, heating, or other means that could weaken puller strength.

About Mechanical Pullers

A pulling system can exert tons of force and it is difficult to predict the exact force required for a pulling application. It is important to observe safety precautions when using a puller.

The OTC pulling system is versatile. For that reason, it is possible that various components in a pulling setup will have different tonnage ratings. **The lowest capacity component determines the capacity of the entire setup.** For example, when an accessory having a capacity of one ton is used with a 10-ton capacity puller, the puller setup can be used at a force of only one ton.

If you are unsure which puller or attachment to select for an application, contact your OTC tool representative or Service Solutions, LLC.

Puller Operation

1. Mount the puller so its grip is tight. When using a jaw-type puller, tighten the adjusting strap bolts. For a better grip and more even pulling power, use a 3-jaw puller when possible.
 2. Align puller legs and jaws. Verify the setup is rigid and the puller is square with the application.
 3. Use the correct size of puller for the application. If you have applied maximum force and the component has not moved, switch to a larger capacity puller.
4. Apply force gradually. The component should give a little at a time. Do not try to speed up the application by using an impact wrench on the forcing screw.
 5. Do not couple puller legs. The tonnage capacity of the puller is reduced when longer-than-standard legs are used or when legs are compressed, increasing the chance of breakage.
 6. Keep reach to a minimum. Use the shortest legs possible to reach the component to be removed.
 7. Install threaded puller legs evenly into the component, attachment, or adapter. Uneven legs result in greater force applied to one side of the puller, which can result in breakage.
 8. Sliding plates must be on the opposite side of the cross block from the forcing screw nut or hydraulic cylinder.
 9. Bearing pulling attachments may not withstand the full tonnage of the pullers with which they are used. The shape and condition of the component being pulled affects the tonnage at which puller blocks and / or studs may bend or break. Select the largest attachments that fit the component being pulled.

Puller Maintenance

Keep the puller clean, and frequently lubricate the forcing screw from threads to tip.