

Section 10 - Level 3 Group 8

Air Intake System Component Rebuild Tools Group

This section contains major component rebuild tools for the Air Intake System Group family. See below for a general description of contents for this grouping of tools.

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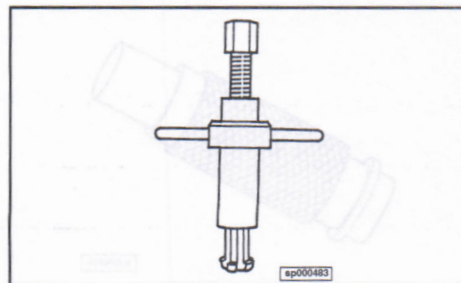
Air Compressor Tools

ST 544

Valve Seat Puller

Engine Series: All with Air Compressors

This expander tool is used to remove the exhaust valve seat on older model air compressors, when the head is mounted on the air compressor. The tool can also be used to remove needle bearings from fuel pump housings or other small bores.

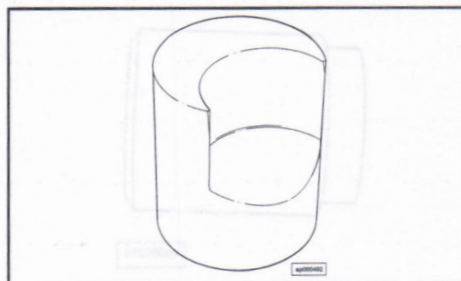


ST 629

Air Compressor Support Block

Engine Series: All Except K38, K50, B and C Series

This special block provides a means of support to the crankshaft on compression with $3 \frac{7}{16}$ inch bore, while pressing on drive gears, to prevent damage to thrust bearings and crankshafts.

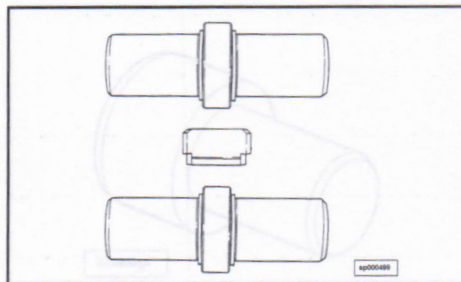


ST 695

Air Compressor Bushing Mandrel

Engine Series: C & J, NH, NT

These mandrels are used to install or remove the standard and/or undersize bushings in the air compressor support housing on gear driven air compressors with $3 \frac{7}{16}$ inch bore except V6-200/V8-265, V6-140/V8-185.

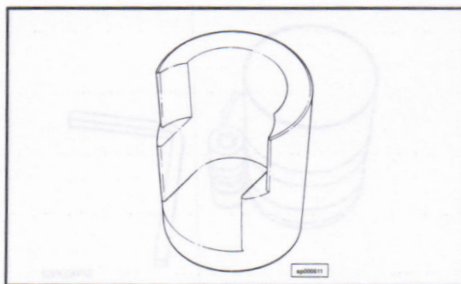


ST 851

Air Compressor Support Block

Engine Series: C & J, K19, NH, NT, V28, V903, V504, L10

This support block is used to support the crankshaft on the $3 \frac{5}{8}$ inch bore (compact) air compressors, while pressing on the accessory drive gear.

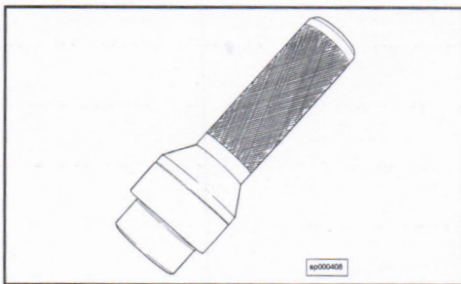


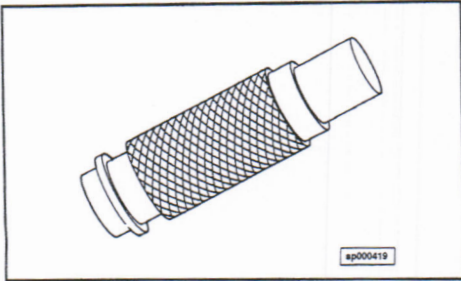
ST 1105

Air Compressor Bushing Mandrel

Engine Series: NT

This mandrel is required to remove or install the crankshaft bushing in the crankcase of $3 \frac{5}{8}$ inch bore air compressors.

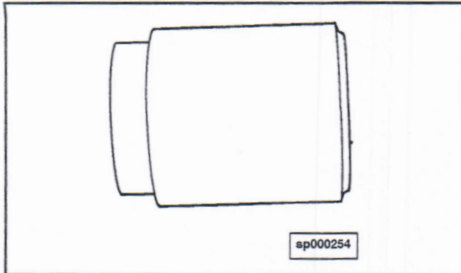




ST 1143
Air Compressor Bushing Mandrel

Engine Series: K19, K38, K50, NT, V28

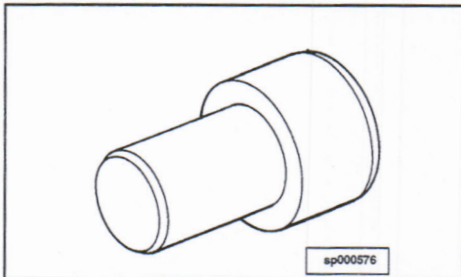
This mandrel is required to install or remove the bushings from the crankshaft on all two cylinder air compressors.



3377415
Air Compressor Seat Driver

Engine Series: All

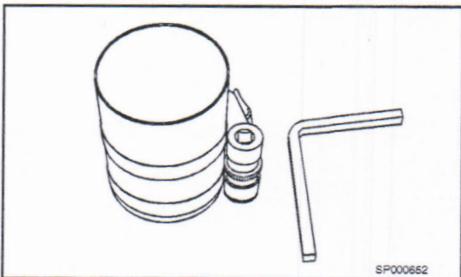
This mandrel is designed to install the air compressor seat (3043947) to its proper depth.



3377416
Air Compressor Seat Driver

Engine Series: All

This mandrel is designed to remove the air compressor exhaust valve seat.



3397773
Piston Ring Compressor

Engine Series: All

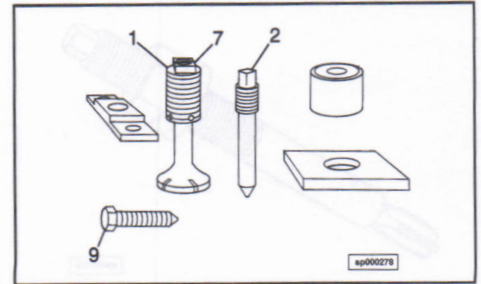
This ring compressor will compress all piston rings between 3 and 7 inches. This tool is only recommended for air compressor pistons. The rigid ring compressors are recommended for engine pistons. See 3822736 and others.

3822761
Air Compressor Exhaust Seat Puller Kit

Engine Series: All

3822674 Kit is used to remove and install the nine hole exhaust valve seat from the single cylinder Cummins air compressor while the compressor is still assembled to the engine. The compressor head and coolant lines can remain in place.

3822681 Kit is used for two cylinder Cummins air compressors. Several components of the 3822674 Kit must be used also on the two cylinder compressors.



Ref. No.	Part No.	Description
	3822674	Single Cylinder Kit
1	3822675	Collet
2	3822676	Expander
	3822681	Two Cylinder Kit
7	3822682	Collet
9	3822684	Capscrew

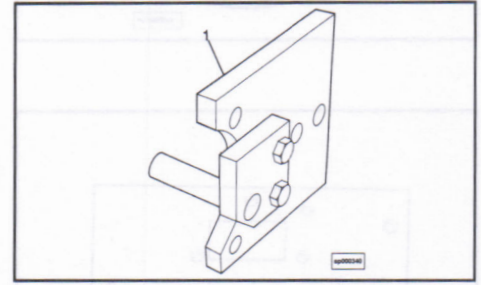
3823596
Air Compressor Mounting Plate

Engine Series: All

This special adapter plate is used with ST 302 Ball Joint Vise to service the air compressors at a work bench. The adapter plate is designed for all Cummins/Holset air compressors.



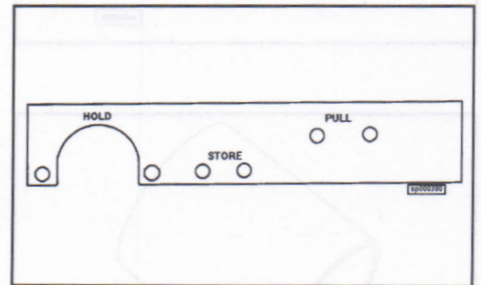
Ref. No.	Part No.	Description
1	3823597	Mounting Plate



3824736
Air Compressor Shaft Nut Removal Bar

Engine Series: B & C Series

This special bar is used to hold the drive gear when removing the retaining capscrews and also to pull the press fit drive gear. This applies to Bendix, Wabco Holset and Midland compressors used on B & C Series engines.

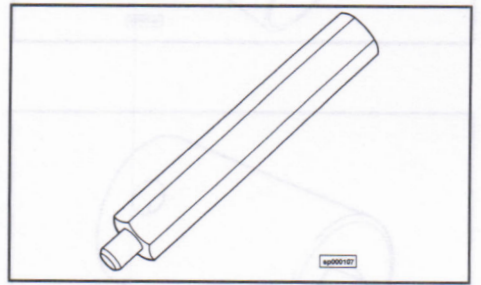


Exhaust Brake Tools

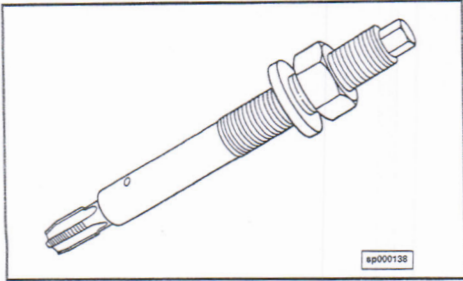
3376144
Exhaust Brake Bushing Driver

Engine Series: NT, L10, M11

These Bushing Driver are used to install or remove 3012487 and 3012488 Bushings into 3012436 Cover and 3011837 Turbine Housing of the turbocharger exhaust brake. This tool is used on NT and L10 series engines.



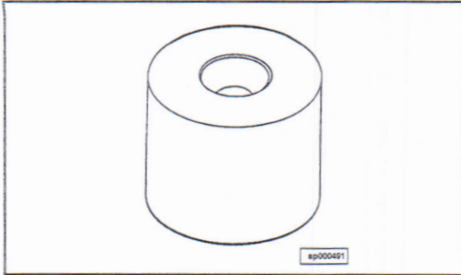
Part No.	Description
3376144	Exhaust Brake Bushing Driver
3376272	Exhaust Brake Bushing Driver



**3376473
Exhaust Brake Bushing Puller**

Engine Series: L10, M11

This tool is used to remove the blind bushing as fitted to the rotary exhaust brake on the Holset H2C turbocharger.

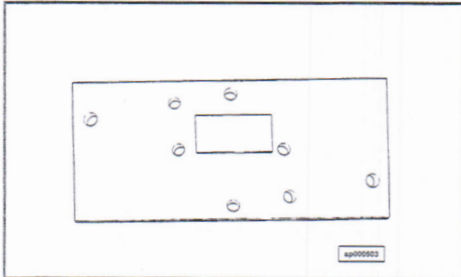


Turbocharger Tools

**ST 608
Turbocharger Support Block**

Engine Series: All Turbocharged

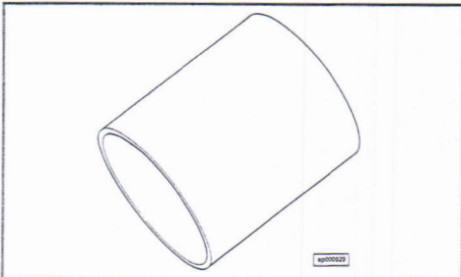
This support block is placed beneath the turbine wheel for support while pressing the compressor wheel onto the shaft for all turbochargers.



**ST 750
Turbocharger Mounting Plate**

Engine Series: All

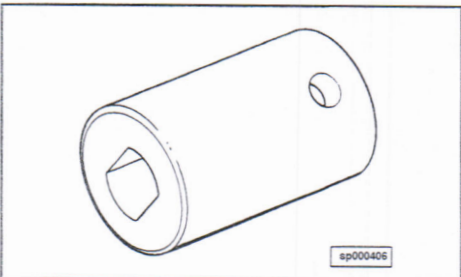
This plate is used in conjunction with ST 302 Ball Vise to attach all Cummins turbochargers for repair and/or rebuild.



**ST 975
Turbocharger Sleeve Tool**

Engine Series: All T-35 Turbocharged

This sleeve is used to press the turbocharger housing from the turbine casing on T-35 turbochargers.



**ST 1095
Turbocharger Rotor Socket**

Engine Series: All T-50 Turbocharged

This special socket is used to hold the rotor shaft while torquing the shaft locknut or aligning the balance marks on all T50 Turbochargers.

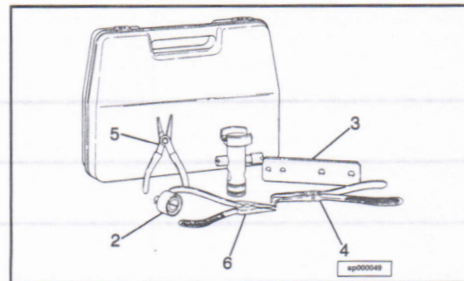
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3375533
Turbocharger Rebuild Kit

Engine Series: NT

This kit contains the necessary tools to assemble and/or disassemble the HC3 turbocharger installed on NTC-425 and NTE-290 series engines.

Ref. No.	Part No.	Description
2	3375524	Piston Ring Instl. Tool
3	3375527	Mounting Bracket
4	3375529	Large Circlip Pliers
5	3375530	Small Circlip Pliers
6	3375531	Turbine Circlip Pliers

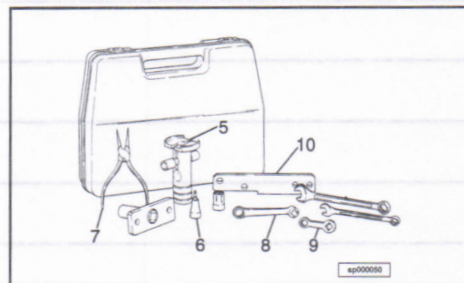


3375543
Turbocharger Rebuild Kit

Engine Series: V378, V555, V504, L10

This kit contains the necessary tools to assemble or disassemble the Holset H2B turbocharger. These are all metric sizes.

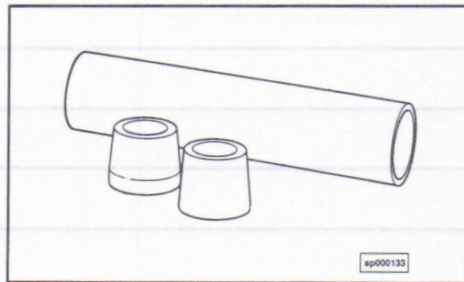
Ref. No.	Part No.	Description
5	3375548	Insert Extractor
6	3375549	Key Wrench
7	3375530	Circlip Plier
8	3375551	Torque Wrench Adapter
9	3375552	Torque Wrench Adapter
10	3376474	Adapter Plate



3376417
Turbocharger Seal Ring Tools

Engine Series: VT-50, T-50, ST-50 Turbocharger

This Kit contains the tools to install the piston ring seal onto the turbine wheel and shaft assembly for the VT 50, T-50 and ST-50 turbochargers.



3823361
Turbo Disassembly Kit - H2C

Engine Series: L10, M11

This special fixture and spreader is almost an absolute necessity to separate the bearing housing from the turbine end of the turbocharger. The spreader is positioned over the anvil (each end) and alternate hammer blows 'break loose' the tight press fit.

Ref. No.	Part No.	Description
2	3823363	Anvil Fixture

