

MODEL : CP-98CX

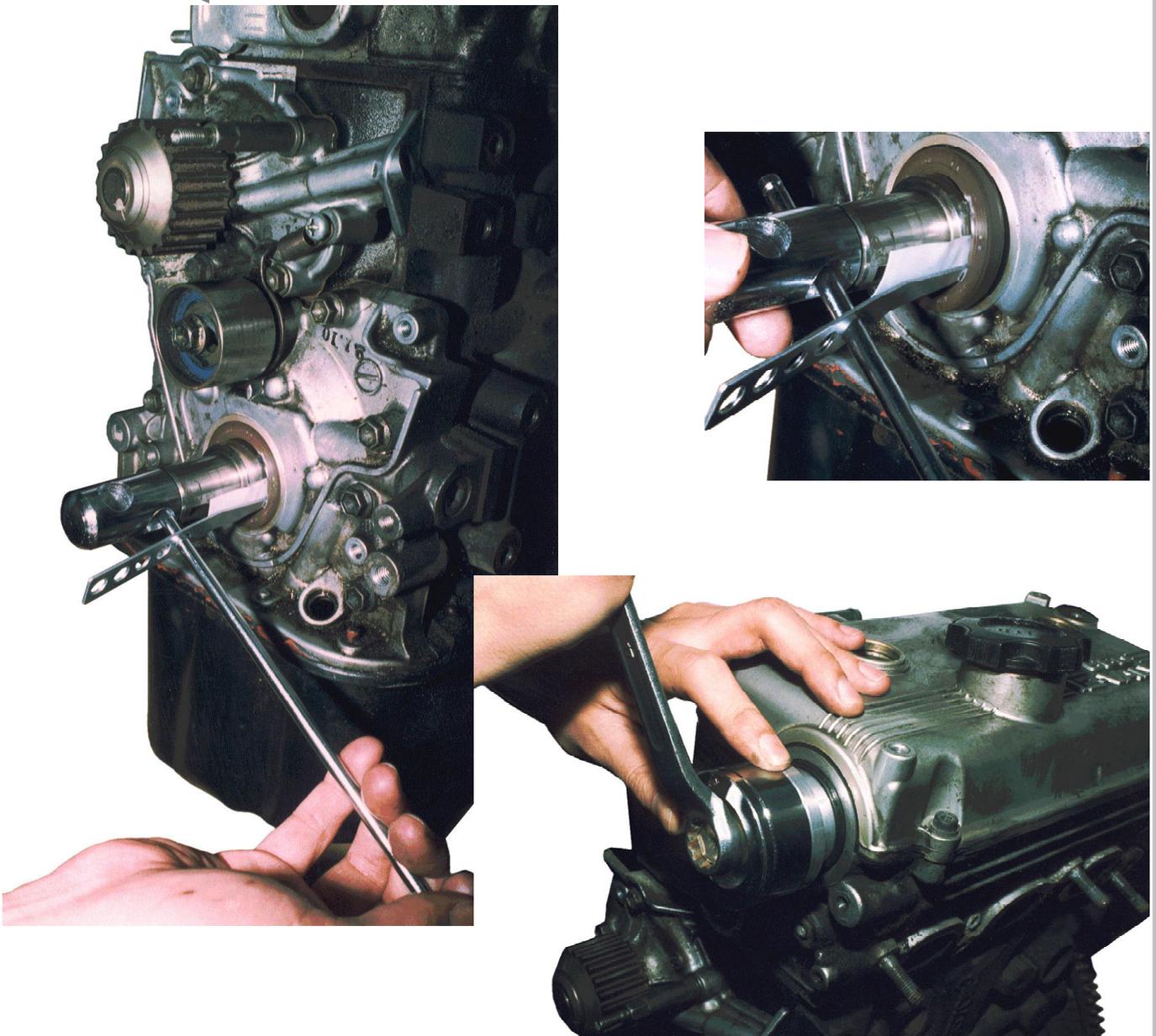
JAPAN PAT. 3052136

CRANK SEAL REPLACER

For compact to regular-sized passenger vehicles

New from HASCO!!

Now, oil seals with shafts can be replaced in crankshafts and cams without disassembling the case, even in engine rooms with limited space!



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Fast! Easy! Reliable!



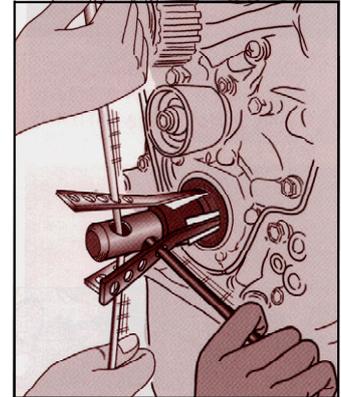
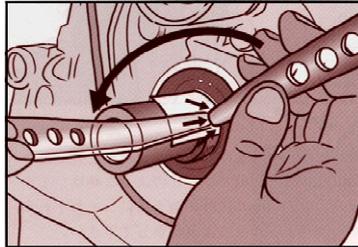
CRANK SEAL REPLACER

Applicability: Compact to Regular-sized Passenger Vehicles

In addition, oil seals fitted in various types of cases, and having an outer diameter between 42 and 60 and a maximum shaft length of 85 mm, can be extracted from the outside, even when the engine room has limited space. Installation is simple and secure. Bolts already in the vehicle can be used for installation, and a screw-type spacer enables accurate centering. The installation attachment is made of aluminum.

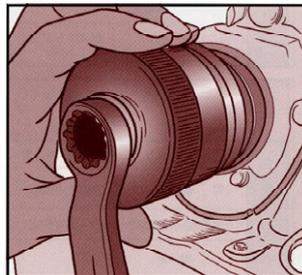
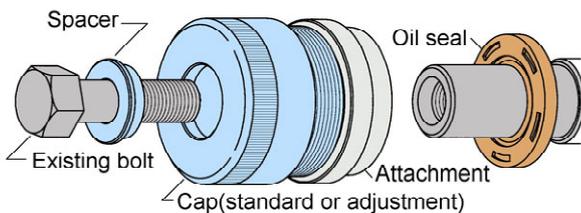
Using the spacer for removing seals

- (1) Insert a Teflon sheet between the inner diameter lip of the seal and the shaft. (This prevents scratching the shaft.)
- (2) Insert the tip of the shaft removal hook between the Teflon sheet and the inner diameter of the seal, and pull up on the hook to fit the tab onto the reverse side. If there is no spacer, clamp the rear part of the hook in a vise to secure it, and bend it.
- (3) Using the dolly block and handle, use the lever principle to pull out the seal. If the seal has hardened and cannot be pulled out, keep changing the position of the hook and pull it out little by little.



Using the spacer for installing seals

- (1) Select the installation attachment, and connect an adjustment screw pipe or an extension pipe that fits the length of the shaft. Then insert a (centering) spacer that fits the size of the bolts currently used in the vehicle, and put the cap in place.
 - * Generally, spacers come in only 5 sizes (M12, M14, M16, M18, and M20). If none of these fit, use the spacer of the closest size and center it visually.
- (2) Using a closed wrench or similar tool, carefully tighten the bolts to install the seal. During the process, if the bolt stroke is too short or there is interference from a pin or another part, add an extension pipe or extend the adjustment screw.



Part names and code numbers	
-07 Hook to remove seal (consumables, 5 pcs in set)	-10 Teflon sheet (consumables, 10 pcs in set)
-05A Extension pipe 10mm	-06 Cap (cam)
-02 Cap (for adjustment)	-04 Cap (standard)
Spacer	-05B Extension pipe 18mm
-22E M12	
-22D M14	-03 Adjusting screw pipe
-22C M16	
-22B M18	Attachment (aluminum)
-22A M20	-01A φ42
	-01B φ49
	-08 Handle
	-09 Dolly block

Precautions concerning use

- * Some cam seals (such as the Mitsubishi 6G) have screws to prevent them from being removed, and cannot be removed from the outside.
- * Trying to forcibly remove seals that are fixed securely in place with adhesive may cause the tip of the tab on the seal removal hook to break off. If the broken-off tip falls into the engine, it must be removed. If the seal is fixed in place, do not apply excessive force in one place. Apply tension at a number of places around the inner diameter of the seal, and pry it loose little by little.
- * When removing the seal, always use the Teflon sheets provided in the set, to avoid scratching the shaft, and use taping and other measures to avoid damage.
- * To prevent problems with installing the tool, before starting the work always check to see if the tip of the attachment is damaged, and position it carefully, being careful that it is inserted straight, and not at an angle. With some cam seals, there is no place on the outer diameter where the tool can be positioned, and it is necessary to break open the case.

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