

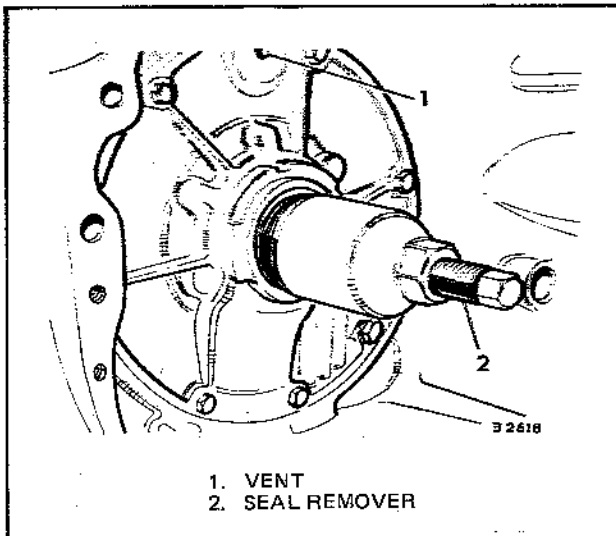
**OPERATIONS WITH BOX REMOVED****PUMP OIL SEAL****To Renew****Special Tools**

Oil pump seal remover	Miller C3861
Oil pump seal replacer	Miller C3860A

On the diesel engine transmission remove the setscrews and washers securing adaptor plate to casing, remove adaptor plate.

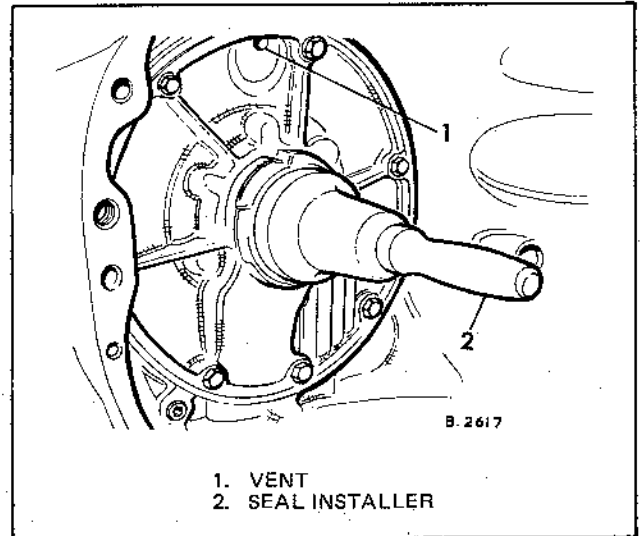
To assist converter removal screw two suitable bolts into converter, withdraw converter taking care to avoid fluid spillage.

Screw seal remover Miller Tool C3861 into seal (Fig. 1), then tighten screw portion of tool to withdraw the seal.



**Fig. 1** Removing pump oil seal

To install new seal, smear with clean transmission fluid, place seal in opening of the pump housing with lip side facing inward. Using Miller Tool C3860A drive seal into housing until tool bottoms (Fig. 2).



**Fig. 2** Installing pump oil seal

Observe the position of the pump inner rotor drive lugs through the seal aperture. Using chalk mark the lug positions on the pump body.

Line up the converter drive slots with the chalk marks and carefully slide converter over input shaft and reaction shaft, ensuring the slots fully engage pump inner rotor lugs. Remove handling bolts.

Test for full engagement by placing a straight edge on face of casing adjacent to one of the lugs. The surface of converter cover lug should be at least 12.7 mm (½ in) to rear of straight edge.

On diesel engines refit the adapter plate and secure with setscrews and washers.