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## Crankshaft Front Seal (12.21.14)

### Special Service Tools




Remover, crankshaft seal 303-D121

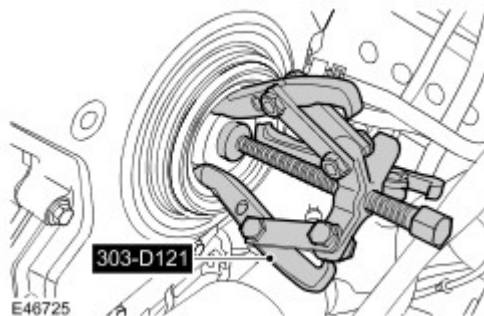


Installer, crankshaft seal  
303-1100

### Removal

1. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
2. Remove the crankshaft pulley. For additional information, refer to [Crankshaft Pulley \(12.21.01\)](#) (Section 303-01)
3.  **CAUTION:** Before the disconnection or removal of any components, ensure the area around joint faces and connections are clean. Plug any open connections to prevent contamination.

Using the special tool, remove the crankshaft front seal.

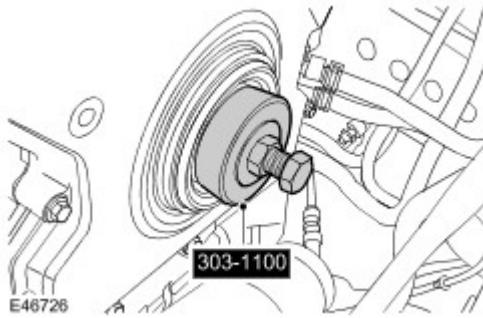


### Installation

- 1.

Using the special tool, install the crankshaft front seal.

▶ Clean the component mating faces.



2. Install the crankshaft pulley. For additional information, refer to [Crankshaft Pulley \(12.21.01\)](#) (Section 303-01)