

RTV Sealing Surface Cleaning and Preparation

Special Tool(s) / General Equipment

Plastic Scraper
Nylon Bristle Disk
Plastic Razor Blade
Lint-Free Towel
Isopropyl Alcohol â€” 90 Percent Minimum

Materials

Name	Specification
Motorcraft® Silicone Gasket Remover ZC-30-A	-
Motorcraft® Metal Surface Prep Wipes ZC-31-B	-
Motorcraft® Engine Shampoo and Degreaser ZC-20	ESR-M14P3-A
Motorcraft® Metal Brake Parts Cleaner PM-4-A, PM-4-B	-

Cleaning

NOTICE: This procedure is only to be used on the sealing surfaces of metal components. Do not use this procedure on non-metal (composite/plastic) components. Failure to follow this direction can lead to malfunction of the RTV seal and fluid leakage.

NOTICE: Place clean, lint-free towels over exposed cavities. Carefully remove the towels so foreign material is not dropped into the cavities. Any foreign material (including any material created while cleaning surfaces) that enters the fluid passages, may cause failure.

NOTICE: Do not use metal scrapers, wire brushes, power sanding or grinding discs, or any abrasive means other than what is specified in this procedure to clean sealing surfaces. These tools cause scratches and gouges which make leak paths.

NOTICE: The order of use of materials to clean surfaces in this procedure is as follows:

1. Motorcraft® Gasket Remover
2. Motorcraft® Metal Brake Parts Cleaner
3. Motorcraft® Engine Shampoo and Degreaser
4. Motorcraft® Metal Surface Prep Wipes

Failure to follow this order will result in failure of the RTV seal and a fluid leak.

NOTICE: The use of latex gloves is recommended. Using latex gloves will minimize the risk of contaminating RTV sealing surfaces and a leak.

NOTE: Bristle discs such as 3M[®], [®] Roloc[®] Bristle Disk grade 120, part number 18733 are acceptable to use for parts that are removed from the engine and vehicle and can be thoroughly washed and cleaned of debris caused by the tool itself and any other debris before installing the part on the engine.

NOTE: Click here to view a video version of the RTV Sealing Surface Cleaning and Preparation procedure.

RTV Sealing Surface Cleaning and Preparation procedure



1. **NOTE:** This step is to help prevent contamination of an RTV sealing surface from drain down after it has been prepared.

For oil pan repairs where residual engine oil in the crankcase may drain down and contaminate a prepared sealing surface, spray the interior of the engine block, skirt stiffener and drain back ports with Motorcraft Metal Brake Parts Cleaner to flush away any excess residual oil. Use a lint-free towel to remove the remainder of the bulk oil cleaner from the components.

Use the General Equipment: Lint-Free Towel

Material: Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B

2. Remove loose sealant by hand or with the aid of a plastic scraper or plastic razor blade.

Use the General Equipment: Plastic Scraper

Use the General Equipment: Plastic Razor Blade

3. Apply Motorcraft® Silicone Gasket Remover to surface. Allow material to work for several minutes.

Material: Motorcraft® Silicone Gasket Remover / ZC-30-A

4. Use a lint-free towel and plastic scraper or plastic razor blade to remove any remaining sealant. Use additional Motorcraft® Silicone Gasket Remover, as required.

Use the General Equipment: Lint-Free Towel

Use the General Equipment: Plastic Scraper

Use the General Equipment: Plastic Razor Blade

Material: Motorcraft® Silicone Gasket Remover / ZC-30-A

5. For parts that are removed from the engine and vehicle that can be thoroughly cleaned without the risk of contaminating the engine with debris, use a bristle disc such as 3M[®], [®] Roloc[®] Bristle Disk grade 120, part number 18733, or equivalent, to clean the sealing surface.

Use the General Equipment: Nylon Bristle Disk

6.
 - For oil pan repairs, spray the interior of the engine block, skirt stiffener and drain back ports with Motorcraft Metal Brake Parts Cleaner to flush away any additional residual oil.

Material: Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B