

FOCAL RETARDER REMOVAL**PREPARATION**

SAFETY NOTE: Always use suitable safety equipment and lifting tackle with safety lugs and chains when handling the stator and rotor assemblies

- Remove any shielding that might hinder access to or removal of the retarder
- Open the connector block for the retarder feed cable and note the position of each cable
- Disconnect the main feed cable from the retarder
- Disconnect the earth cable from the retarder

REMOVING OUTBOARD ROTOR

- Clearly mark both rotors for alignment to simplify re-assembly in the same position relative to each other; mark them in such a way that the marks are not obliterated in handling
- Remove the propshaft fasteners and either remove propshaft or secure out of the working area if possible
- Slacken and remove the outboard rotor nuts and retain for re-shimming
- Remove the outboard rotor

Note: In certain cases, access to the propshaft nuts may be restricted. It may be easier to firstly remove the outboard rotor nuts and rotor, and then to slide the outboard rotor along the propshaft. The propshaft fasteners may then be removed and the propshaft gently lowered, and the outboard rotor removed.

REMOVING STATOR

- Release the eight stator bolts, removing the stator shim sets at each corner; the shims should be kept as sets

Note: The stator shim sets should be kept together, carefully identifying the location of each set; the condition of the shims should be inspected to ascertain whether they can be re-used or should be replaced; if in doubt, replace them with new

- Carefully remove the stator bolts and washers and lower the stator from the stator carrier

SAFETY NOTE: Always use suitable lifting tackle with safety lugs and chains when handling the stator assembly

Note: The eight stator washers should be inspected for condition and replaced if necessary; if in doubt, replace them with new

REMOVING INBOARD ROTOR

- Remove the round rotor shims from the Rotor Adaptor Flange; the condition of the shims should be inspected to ascertain whether they can be re-used or should be replaced; if in doubt, replace them with new
- Remove the fasteners securing the Rotor Adaptor Flange to the axle or gearbox flange, and gently lower the Inboard rotor and Rotor Adaptor Flange as an assembly

REMOVING STATOR CARRIER

- If necessary, the stator carrier can be removed from the rear casing of the gearbox or the axle housing.