

Restricted

Department of Air

NENE INSTRUCTION NO. 10
(ISSUE 2)

Technical Order

Application: Nene 2-VHFUEL PUMPS GC.204 AND GC.205 SERIES
- INSTALLATION PRECAUTIONS

Introduction

1. The above fuel pumps are of the slipper pad type and are now coming into service on Nene 2-VH engines.
2. With the introduction of the slipper pad pump the sealing system has been re-designed.
3. The inner diameters of the seals now bear on an extension sleeve of the pump rotor and not on the quill shaft as previously.
4. The quill shafts on these slipper pad pumps (Pre Lucas Modification CP.236) are splined into their rotor bodies and sealed by a rubber ring retained by a circlip at the inner end of their shafts. Any fuel that passes this rubber seal can leak along the quill shaft and into the engine wheelcase.
5. Cases have occurred where the quill shaft has been moved longitudinally due to the shaft being accidentally knocked, which has resulted in the rubber seal at the driving end of the quill shaft being moved away from its sealing face in the rotor body.
6. Care should be exercised in order to avoid shock loading the quill shaft which could result in a fuel leak, and it is necessary to check the free length of the quill shaft before fitting the pump to the engine.
7. The measurement should be $3.300" \pm .020"$ from the tip of the quill shaft to the locating flange face. Units not conforming to this measurement should be returned for rectification.
8. GC.204 and GC.205 series pumps incorporating Lucas Modification CP.236 feature a shouldered quill shaft with a diametrical seal located by a groove mid-way along the quill shaft. This seal is unaffected by longitudinal movement of the quill shaft. Pumps with Lucas Modification CP.236 can be identified by a raised shoulder on the drive end of the splined shaft protruding from the pump housing. The measurement from the top of the shaft to the mounting flange on these pumps is $3.125 + 0$
AL-3 $" - .050"$.

Reference : File Department of Air 150/4/8346.

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Air Force Head-Quarters

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Reference: File R.A.A.F. 150/4/8346.

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