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Our ref: Australia - Modification: Replacement LED landing light Installation on A22LS and A32 aircraft

Subject: Manufacturer's authorization of LSA modification

Aeroprakt Limited, the manufacturer of A22LS and A32 Light Sport Aircraft, following the requirement 7.3.1 Modifications of Australian AC 21-42 Light Sport Aircraft Manufacturer's Requirements, issues a general approval to install a replacement LED landing light on the nose leg of A22LS and A32 LSA aircraft.

This modification allows for stronger illumination for aircraft operating under night VFR conditions. The approved LED lamp is a replacement for the standard factory installed item.

Conditions of approval:

- The replacement LED light is of the following general specification:
 - Dimension (Without Bracket): approx. 100×80×65mm (4×3.15×2.5 inch)
 - Dimension (With Bracket): approx. 100×90×65mm (4×3.5×2.5 inch)
 - Material: black Diecast Aluminum profile, PC lens
 - Power: 30W (6pcs×5W intense OSRAM LED)
 - Bracket: Alu Firm
 - Working voltage: DC 9~32V
 - Life time: approx 50,000 hrs
 - Luminous Flux: approx 3000 lm
 - Beam Angle: 10 degree (spot beam pattern)
 - Beam Distance: approx. 500 metres
 - Waterproof Rate: IP67
 - Light color: Cold White 6500K
 - Working Temperature: -40~+85 degree Celsius
- The original landing light is removed and the mounting hole covered with a suitable blanking plate;
- The installation(s) must be carried out by qualified person(s) with approved qualifications – e.g. approved installer or suitably qualified aircraft engineer;
- The installation must be inspected and signed as satisfactory by an approved engineer – e.g. Australian L2/LAME or equivalent;
- The modification must be recorded in the Airplane Log Book.

Yuriy Yakovlyev
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