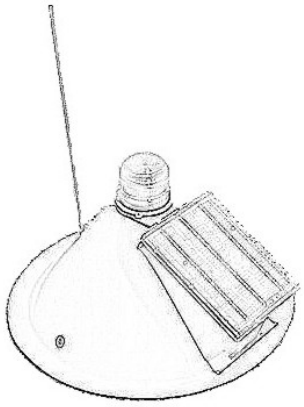
WSSAVIATION™

Pilot Activated Light (PAL)

Solar Airfield Light

Edge	(white light)
Threshold	(green light)
End	(red light)
Threshold/End	(red/green)
Hold Point	(yellow light)
Taxiway/Apron	(blue light)

Designed to the requirements of: CASA MOS Part 139 (Chapt 9)
FAA AC150/4653-50A
ICAO Annex 14 Vol 1



WSS AVILITE PAL™

wssaviation.com.au

Made in Australia

THE WSS AVILITE SYSTEM IS MADE FOR AIRPORT OWNERS AND OPERATORS WHOSE CRITICAL REQUIREMENTS ARE INDEPENDENT PILOT ACTIVATION, LONG-TERM RELIABILITY AND EASY MAINTENANCE.

Application

WSS AVILITE Pilot Activated Lighting provides remote or low use aerodromes with a reliable and flexible solar powered runway lighting system. Our lights provide clearly defined runway guidance to assist pilots during approach and departure.

Photometric

> Chromaticity: Meets CIE specification
> Moulded polycarbonate lens UV-stabilised
> Light Pattern: Omi-directional (optimised for 3°-7° above the horizontal)
> Peak Luminous Intensity QH lamp >36cd or if fitted with optional LED light >70cd
>Twilight activation switch level < 80 lux

(refer Compliance Statement for full details and notes)

Frangibility

When correctly attached to the ground surface by the use of two metal pegs*, WSS AviLite runway edge lights will comply with the requirements of MOS Part 139 - 9.1.12 and ICAO Aerodrome Design Manual Part 4 (Visual Aids Chapter 15). Frangibility is achieved as a result of the light materials used in the construction and the low height profile (340mm) of the unit.

(refer to Frangibility Statement for full details and notes.)

Physical

> Diameter	450mm
> Height	340mm (top of lens)
> Weight	3.5 Kg
> Anchoring	2x 300mm steel pegs *

Features

> Vented and UV stabilised fibreglass cone
> Battery mounted in vented protective enclosure
> Solar panel in protective UV stabilised cover
> Manual activation via magnetic switch
> Tuned antenna for reliable reception
> Encoded HF receiver or standalone VHF option
> Variety of lens colours to suit different runway operating positions

Configuration

> Longitudinal spacing, max 90m.
> Lateral spacing, 3m beyond runway edge if runway over 30m wide. Otherwise at 30m
> Threshold/End lights require six at each end

Ordering

SRL - □ - □ - □

COLOUR OF CONE
W - WHITE
D - DUN

LOCATION (LENS COLOUR)
EM - EDGE MARKER (CLEAR)
TE - THRESHOLD / END (RED/GREEN)
RE - RUNWAY END (RED)
OT - OUTER THRESHOLD (GREEN)
HP - HOLDING POINT (YELLOW)
TX - TAXIWAY / APRON (BLUE)

L - Optional LED Light fitted

ALL FIBREGLASS CONES ARE SUPPLIED COMPLETE WITH SOLAR PANEL, STANDARD LAMP ASSEMBLY (10W) AND LENS (SPECIFY LENS COLOUR), BATTERY MOUNTING BOX, ANTENNA MOUNT AND WIRING LOOM FOR CONTROLLER UNIT (SPECIFY)

WSS AVILITE CONES ARE SUPPLIED IN KNOCK DOWN FORM AND REQUIRE SOME ASSEMBLY BEFORE USE.

** Pegs not supplied*

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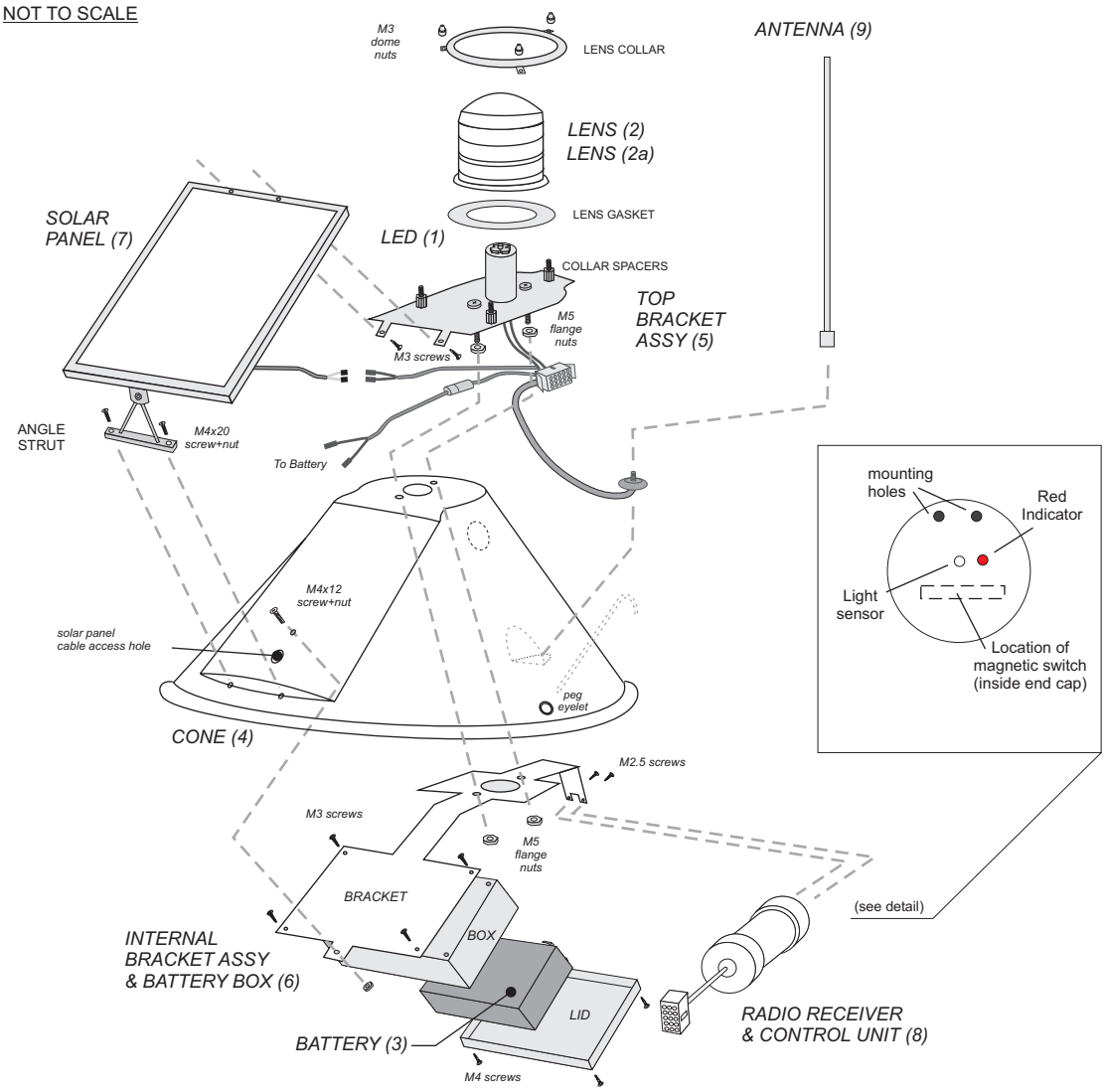
Parts Breakdown and Spares Identification

NOT TO SCALE



REPLACEMENT PARTS

1.....LED - *LED and Heatsink with leads*

2.....LENS/x - *Lens - Specify colour "/x". Clear(/C) or Blue(/B)*
2a.....LENS/RG - *Lens - Special Red/Green for combination runway threshold / end marking*

3.....BAT/12-7 - *Battery - Sealed Lead-Acid (12V 7.2 AH) (YUASA NPR-12FR)*

4.....CONE/x - *Cone only - NO fittings. Specify colour "/x". /W (white) or /D = Dun*

5.....BRKT/TOP - *Top Bracket Assembly (includes lens collar, dome nuts and lens gasket)*

6.....BRKT/INT - *Internal Bracket Assembly (includes battery box and lid)*

7.....PV/5-12 - *Solar Panel (nominal 5W, 12V) (includes support strut and leads)*

8.....CCU or VCU - *CCU (Coded Controller Unit) or VCU (VHF Control Unit) for standalone PAL*

9.....ANTENNA/x - */C for units connecting to CCU or /V for connection to VCU*

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