



Installation Instruction

CESSNA

150 & 172 SERIES

Part 0 Manual Administration

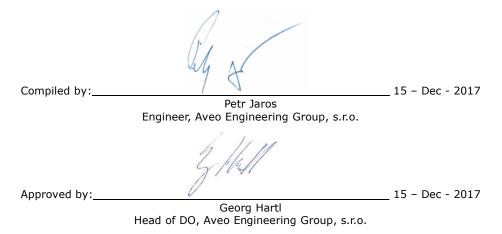
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0.2 Document approval

This document has been established in accordance with an alternative procedure to DOA approved under EASA AP429.

This installation Instruction is applicable for all Cessna 150 and 172.



0.3 Amendment Record procedure

The master copy of this document shall be kept electronically as a read only document under the control of Aveo Engineering Group, s.r.o. as Master Copy.

ALL amendments to this manual will initiate a raise of Issue

ALL raises of issue will be given a sequential Alphabetic Issue Ident sequentially from 01 to 99 in Table 01 - *Issue No:* Column– Initial Issue of Document will be "**01**"

ALL Issues of this document will be approved by Head of DO

Issue No.	Details	Date	Effected Pages			
01	Initial Issue	10 Nov 2016	ALL			
02	Corrections as marked addition of Conformal Solution §1.4 addition of two light anticollision light solution	15 Dec 2017	ALL 11-14 17-19			
	Table 01: Document Amendment Record Table					

0.4 Effected Pages Procedure

ALL pages affected by ANY raise of issue of this manual will be listed in Table 01 - Effected Pages Column.

The reason(s) for ALL raise of issue and description of change due to raise of issue will be provided for ALL raises of issue in Table 01 - *Details* Column.

Changes from the previous issue are highlighted by YELLOW HIGHLIGHTING over new content. AND YELLOW HIGHLIGHTING AND CROSSING OUT of deleted content. Example (CROSSING OUT)

0.5 Distribution List

As stated in 0.3 above; the master copy of this document shall be kept electronically as a read only document under the control of Aveo Engineering Group, s.r.o. as Master Copy.

All holders of copies of this Document will be recorded by listing in Table 02 – Distribution List.

Copy holders listed will be issued a copy of this document with sequential copy number as shown in Table 02 – Distribution List

Copy No.	Holder
MASTER	Aveo Engineering Group, s.r.o.
Tab	le 02: Distribution List

Part 1 Installation Instruction

1.1 General

This installation is to be performed in accordance to common practice as described in FAR AC 43.13-2B Chapter 4 and in FAR AC 43.13 1B Chapter 11 Section 15 (Bonding) as published by FAA.

The installer is responsible to follow the installation instructions in the latest revision of:

- FAR AC 43.13-2B Chapter 4
- FAR AC 43.13 1B Chapter 11 Section 15
- AVE-H30-001-IM
- AVE-WPS-64G-IM
- AVE-POSW-54G-IM
- AVE-RBXP-001-IM
- AVE-CCPS-IM 01

All drawings applicable for this change are listed in the Drawing List:

• AVE-MOD-004-DL, issue 01

The following appliances carry an ETSO authorization:

- AVE-POSW-54G ETSOA 210,10053449
- AVE-WPSR-54G & AVE-WPSG-54G ETSOA 210.10053935
- AVE-WPSR-64G & AVE-WPSG-64G ETSOA 210,10053936
- AVE-RBXPR-001 ETSOA 210.10055069
- AVE-RBXPR-002 ETSOA 210.10055069
- AVE-CCPSR-63D & CCPSG-63D EASA Account Number: 307368

The change is to be performed using the document AVE-MOD-004-MCS in the latest issue.

The aircraft manuals remain fully valid. For maintenance of the new lights follow the Aveo Installation Manuals referenced above.

1.2 Description

This modification is the replacement of the composite wingtip segment and of position, anti-collision, taxi- and landing lights by LED type lights.

1.2.1 Position and anti-collision lights

The new position lights all also include the strobe function. Also two options for the anti-collision lights can be installed. The RedBaron XP Galactica offers the red or white anti-collision light or two units of RedBaron Mini Galactica.

As not all C150 and 172 are already equipped with the strobe function (white strobe)

in addition to the red beacon, this function may be added with this modification.

Hence the following optional installations can be done with this modification:

For aircraft with strobe function already installed:

- Position lights including strobe + Beacon red (RedBaron XP)
- Position lights including strobe + 2 Beacon red including strobe (RedBaron Mini)

For aircraft without strobe:

- Position lights without strobe + Beacon red (RedBaron XP)
- Additional switch and wiring change + Position lights including strobe + Beacon red (RedBaron XP or two RedBaron Mini)
- Additional switch and wiring change + Position lights including strobe + Beacon red including strobe (RedBaron XP or two RedBaron Mini)

Synchronization:

The strobe lights may be synchronized but the frequency of the strobes is so low that synchronization of the lights is not required.

For the synchronization function the blue wires of each light to be synchronized have to be connected. If for this function additional wires are to be installed then these must be installed along the wire bundle in which the lights power wires run. If the function is not used the blue wire at each light is to be capped and stowed.

1.2.2 Taxi- and landing lights

The C150 and 172 can be equipped with a taxi light (wide angle lens) and a landing light (narrow angle). This modification allows replacing all installed taxi and landing lights with the same configuration as installed before the modification. A configuration change is not allowed.

1.2.3 Energy consumtion

The analysis (I= ΔI_B a I_L) showed that after installation of LED lights, in case of Position/Strobe lights , the total energy consumption dropped by 39.36% when Ultra Galactica Embedded lights or by 31.06% when Crystal Conforma lights were installed.

In case of Landing/Taxi lights, the energy consumption dropped by 16.77 %. On the contrary, in case of Anti-collision lights, the energy consumption increased by 11.11% when RedBaron XP Galactica or by 1.5 % when two RedBaron Mini Galactica lights were installed. It was caused by higher power drain of our AVEO lights.

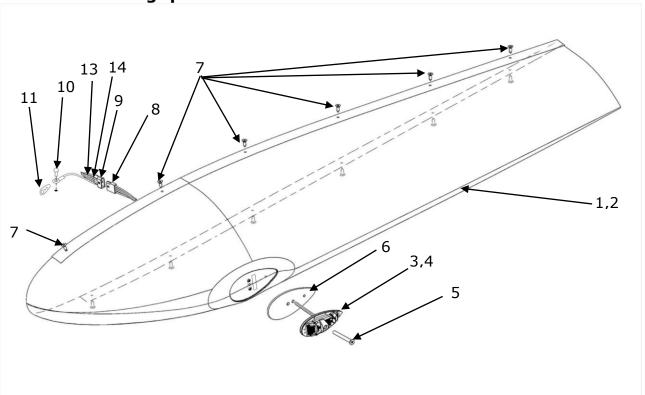
Lights	Input Current I _{BUBL} (A)	Lights	Input Current I_{LED} (A)	
Position light/strobe	2.0 / 1.7	Ultra Galactica	0.8 / 2.43	
Position light/strobe	2.0 / 1.7	Ultra Galactica Embedded	0.56 / 2.1	
Position light/strobe	2.0 / 1.7	Crystal Conforma	0.45 / 2.6	
Tail position light	2.0	PosiStrobe CP	0.38 / 4.9	
Anti-collision	4.0	RedBaron XP Galactica	4.5	
Anti-collision	4.0	RedBaron Mini Galactica	2.03	
GE4509	7.69	Hercules Drop-In Landing	6.4	
GE4626	7.69	Hercules Drop-In Taxi	6.4	
Table 03: Energy consumtion				

Note:

GE4509, GE4626 original Cessna Langing and TAXI bulbs.

1.3 Wingtip Installation Conventional Lights

1.3.1 Wingtip Installation Left



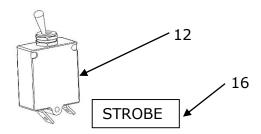


Figure and Index Number	Part Number	Description	Parts Avail.	QTY. Per assy.
1 2 3 4 5 6 7 8 9 10 11	AVS-C220104050-A0A AVS-C120104060-A0A AVE-WPSTR-54G AVE-WPSR-64G AVS- P000102119-A30 AVS- P001290550-A1A AN526C832R9 01-0430011-00 01-0410823-00 AN515-8R6 S1862-1	Wingtip Fiberglass subassembly Left Wingtip Carbon subassembly Left Ultra Galactica (RED) Ultra Galactica embedded (RED) Screw M5x45 Gasket Original fasteners Connector Kit - Male Connector Kit - Female Screw Nutplate		1 1 1 1 1 1 12 1 1 1 1
12 13 14 15 16	CM3589-10	Breaker LDG Light AWG20 Wire – Yellow - Strobe AWG22 Wire – Blue - Synchro STROBE Sticker		1 1 1 1

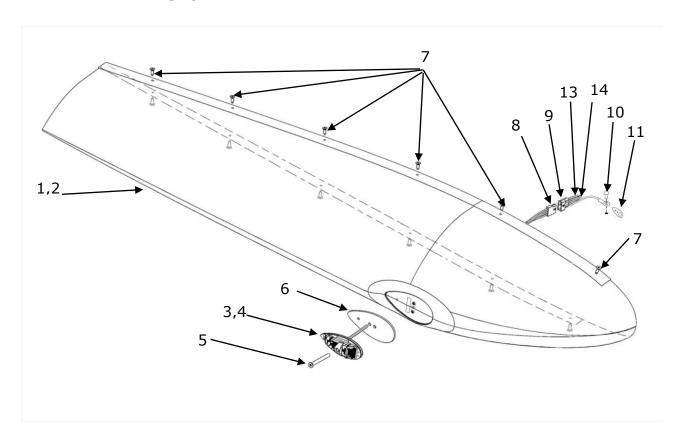
Remove installed wing tip and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

(#7) Use original fasteners to mount wingtips to the wing.

The lights are to be connected as described in manual AVE-WPS-54G-IM or AVE-WPS-64G-IM. If the strobe function is not used the blue and the yellow wires described in the component installation manual are not used and therefore have to be capped and stowed.

If the aircraft (Cessna 150 only) is not already equipped with the strobe function this function can be installed through this change by following the instructions in $\S 1.10$. Additional cables for strobe (#13) and synchronization (#14) function and circuit breaker (#12) and STROBE sticker (#16) are to be installed according to $\S 1.10$.

1.3.2 Wingtip Installation RIGHT



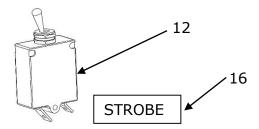


Figure and Index Number	Part Number	Description	Parts Avail.	QTY. Per assy.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	AVS-C220104051-A0A AVS-C120104061-A0A AVE-WPSTG-54G AVE-WPSG-64G AVS- P000102119-A30 AVS- P001290550-A1A AN526C832R9 01-0430011-00 01-0410823-00 AN515-8R6 S1862-1 	Wingtip Fiberglass subassembly Right Wingtip Carbon subassembly Right Ultra Galactica (GREEN) Ultra Galctica embeded (GREEN) Screw M5x45 Gasket Original fasteners Connector Kit - Male Connector Kit - Female Screw Nutplate		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Remove installed wing tip and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

(#7) Use original fasteners to mount wingtips to the wing.

The lights are to be connected as described in manual AVE-WPS-54G-IM or AVE-WPS-64G-IM. If the strobe function is not used the blue and the yellow wires described in the component installation manual are not used and therefore have to be capped and stowed.

If the aircraft (Cessna 150 only) is not already equipped with the strobe function this function can be installed through this change by following the instructions in $\S1.10$. Additional cables for strobe (#14) and synchronization (#15) function and circuit breaker (#13) and STROBE sticker (#16) are to be installed according to $\S1.10$.

1.4 Wingtip Installation Conformal Solution

1.4.1 Wingtip Installation LEFT

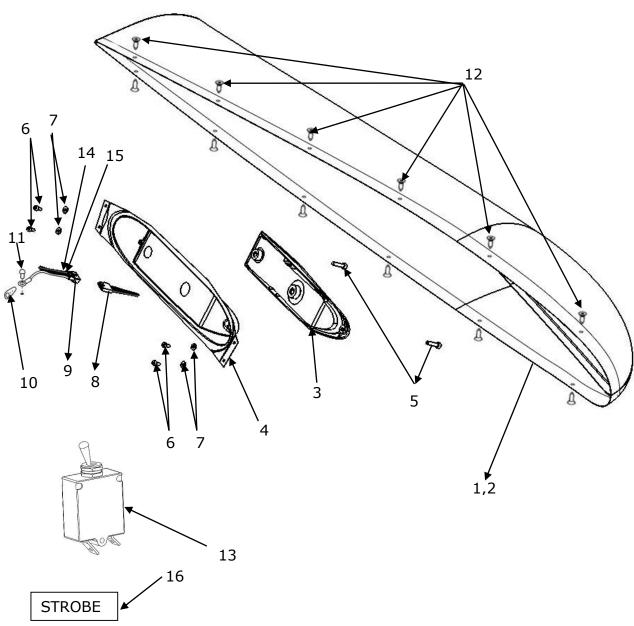


Figure and Index Number	Part Number	Description	Parts Avail.	QTY. Per assy.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	AVS-C220104652-A00 AVS-C120104654-A00 AVE-CCPSR-D01 AVS-C210104665-A00 AVS-SCM05040FAS-D0A AVS-SCM04008HAS-D0A AVS-WAM0432DFS-D0A 01-0430011-00 01-0410823-00 S1862-1 AN515-8R6 AN526C832R9 	Wingtip Fiberglass subassembly Left Wingtip Carbon subassembly Left Drooped Crystal Conforma Red Cessna Conforma Light Module Holder L Screw Screw Washer Connector Kit - Male Connector Kit - Female Nutplate Screw Original fasteners		1 1 1 2 4 4 1 1 1 1 2 1 1 1

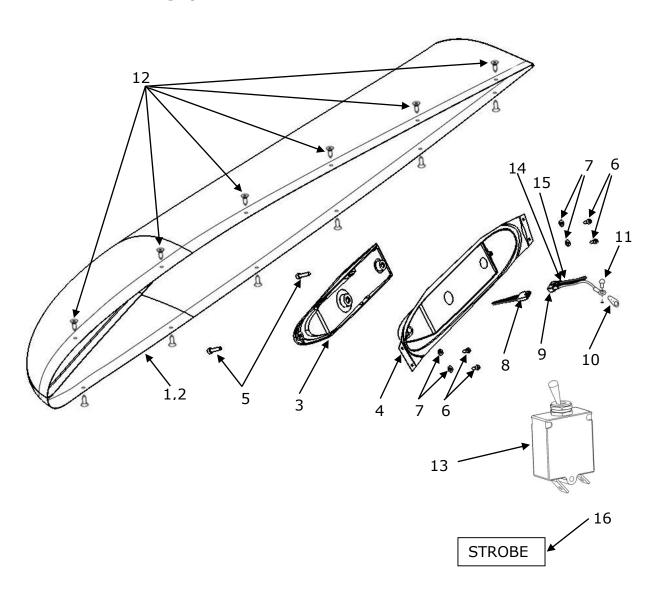
Remove installed wing tip and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

(#12) Use original fasteners to mount wingtips to the wing.

The lights are to be connected as described in manual AVE-CCPS-IM. If the strobe function is not used the blue and the yellow wires described in the component installation manual are not used and therefore have to be capped and stowed.

If the aircraft (Cessna 150 only) is not already equipped with the strobe function this function can be installed through this change by following the instructions in $\S 1.10$. Additional cables for strobe (#14) and synchronization (#15) function and circuit breaker (#13) and STROBE sticker (#16) are to be installed according to $\S 1.10$.

1.4.2 Wingtip Installation RIGHT



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Figure and Index Number	Part Number	Description	Parts Avail.	QTY. Per assy.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	AVS-C220104653-A00 AVS-C120104655-A00 AVE-CCPSG-D01 AVS-C210104664-A00 AVS-SCM05040FAS-D0A AVS-SCM04008HAS-D0A AVS-WAM0432DFS-D0A 01-0430011-00 01-0410823-00 S1862-1 AN515-8R6 AN526C832R9 	Wingtip Fiberglass subassembly Right Wingtip Carbon subassembly Right Drooped Crystal Conforma - Green Cessna Conforma Light Module Holder R Screw Screw Washer Connector Kit - Male Connector Kit - Female Nutplate Screw Original fasteners		1 1 1 2 4 4 1 1 1 1 1 2 1 1 1

NOTES

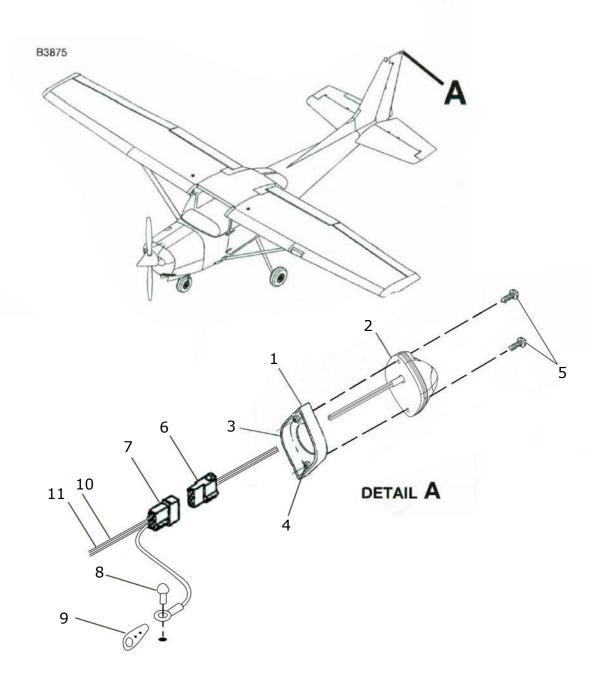
Remove installed wing tip and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

(#12) Use original fasteners to mount wingtips to the wing.

The lights are to be connected as described in manual AVE-CCPS-IM. If the strobe function is not used the blue and the yellow wires described in the component installation manual are not used and therefore have to be capped and stowed.

If the aircraft (Cessna 150 only) is not already equipped with the strobe function this function can be installed through this change by following the instructions in $\S1.10$. Additional cables for strobe (#14) and synchronization (#15) function and circuit breaker (#13) and STROBE sticker (#16) are to be installed according to $\S1.10$.

1.5 Navigation Lights Installation – Tail Position



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Figure and Index Number	Part Number	Description	Parts Avail.	QTY. Per assy.
1 2 3 4 5 6 7 8 9 10 11	921-204-00 AVE-POSW-54G S3231-5 MS35206-215 01-0430011-00 01-0410823-00 AN515-8R6 S1862-1	Mount PosiStrobe CP Rudder assembly Refer to 55-40-00 figure 01 Nut Screw Connector Kit - Male Connector Kit - Female Screw Nutplate		1 1 2 2 1 1 1

NOTES

Remove installed navigation light and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

The lights are to be connected as described in manual AVE-POSW-54G-IM. If the strobe function is not used the blue and the yellow wires described in the component installation manual are not used and therefore have to be capped and stowed.

If the aircraft is not already equipped with the strobe function this function can be installed through this change by following the instructions in $\S 1.10$. Additional cables for strobe (#11) and synchronization (#10) function are to be installed according to $\S 1.10$.

1.6 Anti-collision Light Installation

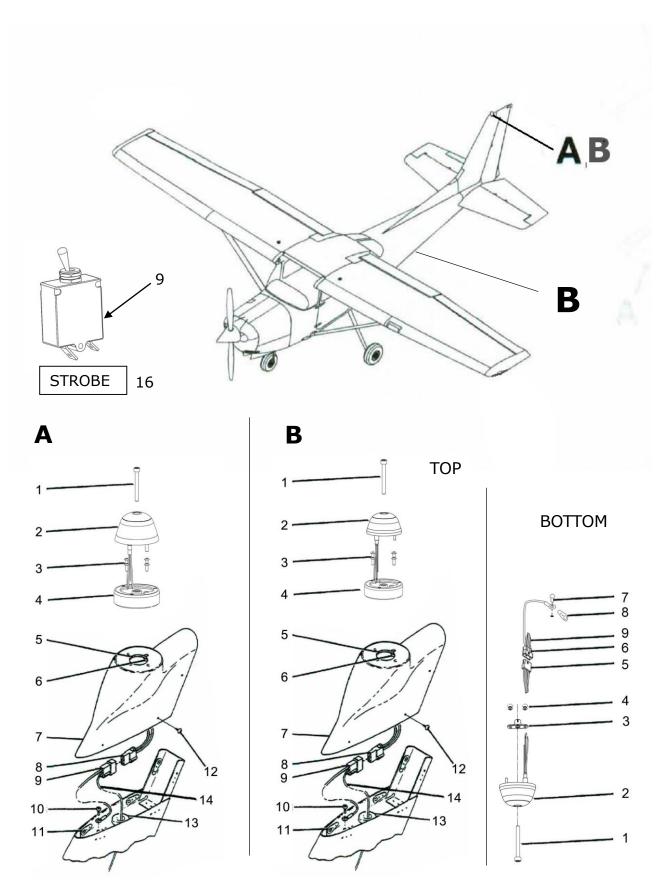


Figure and	Part Number	Description	Parts	QTY. Per
Index Number	rait Number	Description	Avail.	assy.
	Option A			
1	AVS-P000102111-A3A	Hex Socket Metric Screw Assy		1
2	AVE-RBXPR-001	RedBaron XP Galactica		1
3	AVE REAL ROOT	Original Fasteners		4
4	AVE-LARBUHS-01B			1
		RedBaron Legacy Light Replacement Adapter		
5	0431017-2	Plate assembly mounting		2
6	NAS680A08	Nutplate		1
7	0431017-1	Tip Assembly- flashing beacon		1
_	0431017-3	Tip Assembly- flashing beacon		1
8	01-0430011-00	Connector Kit - Male		1
9	01-0410823-00	Connector Kit - Female		1
10	AN515-8R6	Screw		6
11	S1862-1	Nutplate		6
12	S1021Z6-4	Screw		1
13	MS35489-13	Gromet		1
	MS35489-4	Gromet		1
14		AWG22 Wire – Blue – Synchro		1
	Ontion P TOP			
	Option B TOP AVS-P000100524-A3A	Hay Cacket Matria Carayy Agay		1
1		Hex Socket Metric Screw Assy		1
2	AVE- RBXPR-002	RedBaron Mini Galactica		1
3 4	AVG D000000111 AG0	Original Fasteners		4
4	AVS-P000600111-A60	RedBaron Mini Light Replacement Adapter		1
5	0431017-2	Plate assembly mounting		2
6	NAS680A08	Nutplate		1
7	0431017-1	Tip Assembly- flashing beacon		1
	0431017-3	Tip Assembly- flashing beacon		1
8	01-0430011-00	Connector Kit - Male		1
9	01-0410823-00	Connector Kit - Female		1
10	AN515-8R6	Screw		6
11	S1862-1	Nutplate		6
12	S1021Z6-4	Screw		1
13	MS35489-13	Gromet		1
	MS35489-4	Gromet		1
1.4		AWG22 Wine Bloom Compleme		
14		AWG22 Wire - Blue - Synchro		1
	Option B BOTTOM			1
1	AVS-P000100524-A3A	Hex Socket Metric Screw Assy		1
2	AVE- RBXPR-002	RedBaron Mini Galactica		1
3	AVS-2LAM5033655Z-M00			
	MS20426AD3-8	M5 Two Lug Anchor Nut		2
4	01-0430011-00	Rivet		1
5	01-0430011-00	Connector Kit - Male		1
6	AN515-8R6	Connector Kit - Female		1
7		Screw		1
8	S1862-1	Nutplate		1
14		AWG22 Wire - Blue - Synchro		1
17				

Remove installed anticollision light and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

The lights are to be connected as described in manuals AVE-RBXP-001-IM depending on which option is to be installed.

If the aircraft (Cessna 150 only) is not already equipped with the strobe function this function can be installed through this change by following the instructions in §1.10.

Option A: Additional cable for synchronization function (#14) is to be installed according to §1.10.

Option B: Additional cable for synchronization function (#14) is to be installed according to $\S1.10$.

Used drawing number 0104069 Fitting Modification for bottom light installation.

1.7 Landing / Taxi Light Installation 150

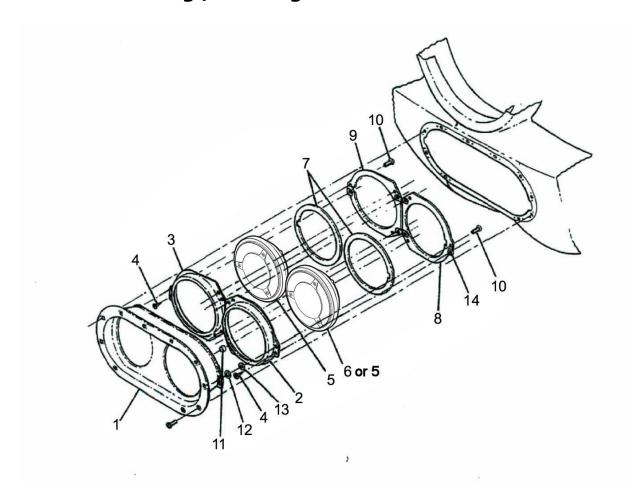


Figure and Index Number	Part Number	Description	Parts Avail.	QTY. Per assy.
1 2 3 4 5 7 8 9 10 11 12 13 14	Option A 1752118-1 1752118-2 S1021Z6-8 AVE-H30TATSNL-T0A 0752646-1 1752118-3 1752118-4 AN515 8R6 NAS43DD3-12 AN960 -10 AN960-10L NAS448-1-3	Support assembly – landing light Bracket LH Bracket RH Screw Hercules Drop-In Landing Gasket Plate assembly LH Plate assembly RH Screw SpacerLH only WasherLH only NUT		1 1 3 2 AR 1 1 3 1 AR AR AR
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Option B 1752118-1 1752118-2 S1021Z6-8 AVE-H30TATSNL-T0A AVE-H30TATSNT-T0A 0752646-1 1752118-3 1752118-4 AN515 8R6 NAS43DD3-12 AN960 -10 AN960-10L NAS448-1-3	Support assembly – landing light Bracket LH Bracket RH Screw Hercules Drop-In Landing Hercules Drop-In Taxi Gasket Plate assembly LH Plate assembly RH Screw SpacerLH only WasherLH only NUT		1 1 3 1 1 AR 1 3 1 AR AR AR AR

It is to be checked by the installer before the modification whether Option A or B is installed on the aircraft. For a change in configuration e.g. 2 landing lights into 1 landing and 1 taxi light requires an additional EASA change.

Remove installed landing / taxi lights and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

Remove existing connector and replace as indicated. Verify polarity of wires before connection (ref. to AVE-H30-001-IM).

1.8 Landing Light Installation 150

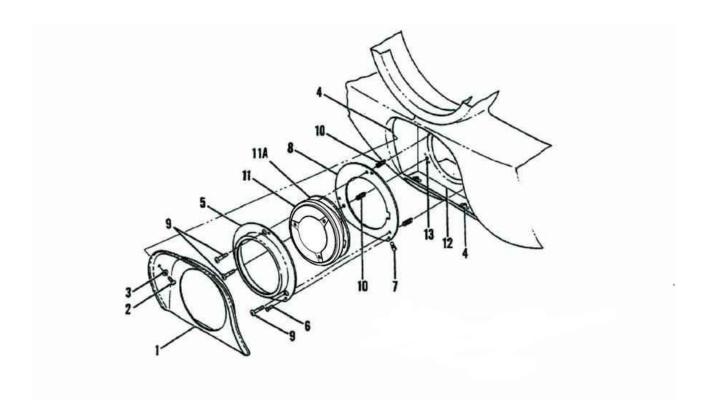


Figure and Index Number	Part Number	Description	Parts Avail.	QTY. Per assy.
1 2 3 4 5 6 7 8 9 10 11 12 13	04252013-2 AN515-8R6 AN960-8L NAS680A08 0452015-2 S1021Z6-8 NAS488-1-3 0452015-7 AN515-8R18 0450277-11 AVE-H30TATSNL-T0A 0452014-1 NAS680A08	150&150A Landing light Cower -Cowl Light Screw Washer Nutplate Bracket Screw NUT Plate Screw Spring Hercules Drop-In Landing Bracket assembly - landing light support Nutplate		1 6 6 1 3 3 1 3 1 3

Remove installed landing lights and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

Remove existing connector and replace as indicated. Verify polarity of wires before connection (ref. to AVE-H30-001-IM).

1.9 Landing / Taxi Light Installation 172



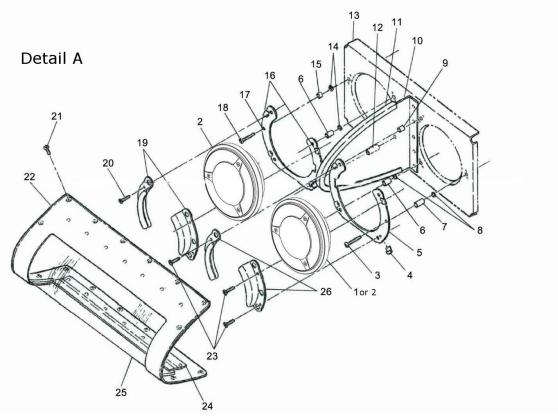


Figure	Part Number	Description	Parts	QTY.
and	Tare Number	Description	Avail.	Per

Installation Instructions AVE-MOD-004-INS Issue 02

			issue	02
Index				assy.
Number				,
		Option A		
1,2	AVE-H30TATSNL-T0A	Hercules Drop-In Landing		2
3	AN520 -10R18	Screw		6
4	S4216-1	Nut		4
5	1221059	Plate		1
6	NAS43DD3-36FC	Spacer		2
7	NAS43DD3-44FC	Spacer		1
8	NAS1149F0363P	Washer		AR
9	NAS43dd3-24FC	Spacer		1
10	NA343uu3-241 C	·		RF
11	0522116-1	Baffle assembly refer to 57-40-00figure 02 Finish Channel		1
				_
12	NAS43DD3-48FC	Spacer		1
13	NAC4 4 40 F0 2 C 2 D	Bracket assembly refer to 57-40-00 figure 02		RF
14	NAS1149F0363P	Washer		AR
15	NAS42DD3-14FC	Spacer		1
16	S4216-1	Nut		4
17	1221059-6	Plate		1
18	AN520-10R18	Screw		6
19	1221059-5	Bracket		1
20	S1021Z6-6	Screw		1
21	MS24693-S48	Screw		16
22	AN520-10R18	Screw		6
23	S1021Z6-8	Screw		4
24	NAS1149F0363P	Washer		AR
25	0522113-2	Lens assembly		01
26	C7358-014	Ring alt C7358-014-27		NP
		Option B		
1	AVE-H30TATSNT-T0A	Hercules Drop-In Taxi		1
2	AVE-H30TATSNL-T0A	Hercules Drop-In Landing		1
3	AN520 -10R18	Screw		6
4	S4216-1	Nut		4
5	1221059	Plate		1
6	NAS43DD3-36FC	Spacer		2
7	NAS43DD3-30FC	Spacer		1
8	NAS1149F0363P	Washer		AR
9	NAS43dd3-24FC	Spacer		1
10	NA343uu3-241 C			RF
11	0522116 1	Baffle assembly refer to 57-40-00figure 02 Finish Channel		
	0522116-1			1
12	NAS43DD3-48FC	Spacer		1
13	NAC1140503635	Bracket assembly refer to 57-40-00 figure 02		RF
14	NAS1149F0363P	Washer		AR
15	NAS42DD3-14FC	Spacer		1
16	S4216-1	Nut		4
17	1221059-6	Plate		1
18	AN520-10R18	Screw		6
19	1221059-5	Bracket		1
20	S1021Z6-6	Screw		1
21	MS24693-S48	Screw		16
22	AN520-10R18	Screw		6

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23 24 25	S1021Z6-8 NAS1149F0363P 0522113-2	Screw Washer Lens assembly	4 AR 01
26	C7358-014	Ring alt C7358-014-27	NP

NOTES

It is to be checked by the installer before the modification whether Option A or B is installed on the aircraft. For a change in configuration e.g. 2 landing lights into 1 landing and 1 taxi light requires an additional EASA change.

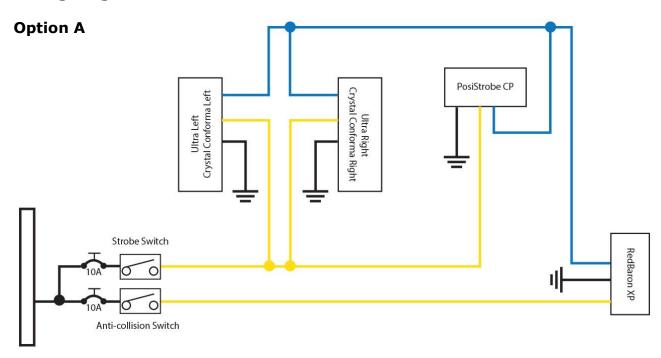
Remove installed landing / taxi lights and verify that aircraft structure is not subject to substantial corrosion. In case of detected corrosion apply relevant AMM section or consult OEM before continuing with this installation.

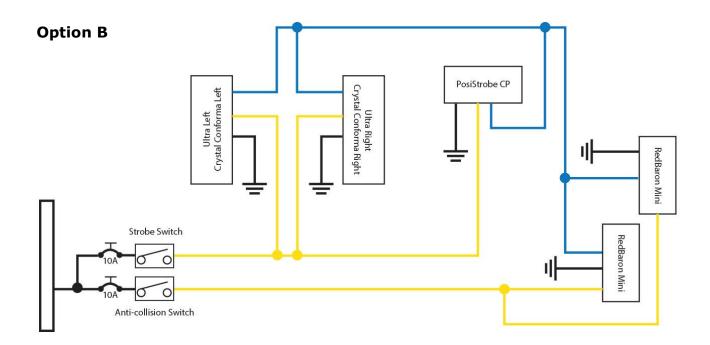
Remove existing connector and replace as indicated. Verify polarity of wires before connection (ref. to AVE-H30-001-IM).

1.10 Addition of strobe function

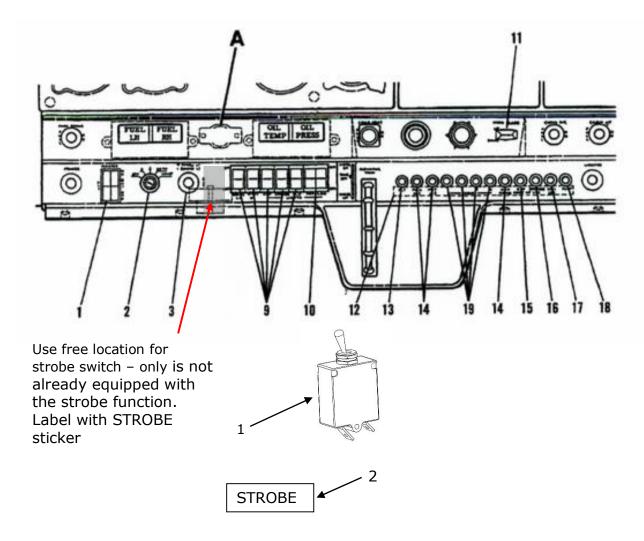
For aircraft C150 which are not already equipped with the strobe function this function can be integrated using the following modification instruction.

Wiring Diagram





Instrument panel C150 (actual instrument panel to be taken from AMM)



Installation Instructions AVE-MOD-004-INS Issue 02

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		STROBE FUNCTION INSTALLATION		
1	CM3589-10	Breaker LDG Light		1
2		STROBE Sticker		1

NOTES

To install the strobe light function (Cessna 150 only): Install switches (item 1) into a free location off the instrument panel according Aircraft Maintenance Manual. The switches are labeled "Strobe" and "Anti-collision".

Wiring is to be performed according the wiring diagram. If the strobes are to be synchronized then the blue wires of the position lights and the anti-collision light must be connected. If the lights shall not be synchronized the blue wires of the different lights are to be capped and stowed.

The additional wires are to be installed along the wire bundle with the wires for the position and anti-collision lights.

Part 2 Compliance demonstration

This document is in relation to the certification program AVE-MOD-004-PFC. The compliance is demonstrated for the following certification specification:

Requirements	MoC	Statement of Compliance		
Requirements	MOC	Statement of Compliance		
CS 23.609 Protection of structure	MoC 0	(a) All parts installed are verified to be suitable. The installation instruction requests the aircraft structure to be inspected for probable corrosion before installing the new lights. (b) Not applicable		
CS 23.1301 Function and installation	MoC 0	 (a) All navigation and anti-collision lights are ETSO certified. All landing lights are qualified according to RTCA DO160 as per AVE-H30-001-CCL. (b) Only one optional switch may be installed an label is defined herein. (c) All equipment is installed within their limits. 		
CS 23.1365 Electric MoC (cables and equipment		The installation instruction § 1.1 requests to follow the FAR AC 43.13-2B Chapter 4 and in FAR AC 43.13 1B Chapter 11 Section 15 which implies that only aviation specified wiring is to be used		
CS 23.1367 Switches	MoC 0	(a) The only switch specified is the OEM type switch used for the same power rating.(b) Switch is next to the control column and evaluated to be accessible by the flight crew.(c) The switch is labelled for the appropriate function.		
CS 23.1383 Taxi and landing lights	MoC 0	 (a)The configuration of the original installation is not changed. (b) is not affected as the installation is not changed. (c) is improved as the new lights are brighter than the originally installed. (d) The landing light surface temperature is significantly lowered by this modification. 		
CS 23.1529 Instructions for Continued Airworthiness	MoC 0	The modification does not require any changes to the aircraft maintenance procedure which is clearly stated in §1.1 General.		