

INSTALLATION INSTRUCTIONS and PARTS LIST
 MINI L-810 OBSTRUCTION LIGHT [RETRO FIXTURE]

PART No:

RTO 1R07 004 [Red, 120/240 VAC, FAA]
 RTO 1x06 004 [277 VAC Version]

RTO 6x07 004 [120/240 VAC Transport Canada]

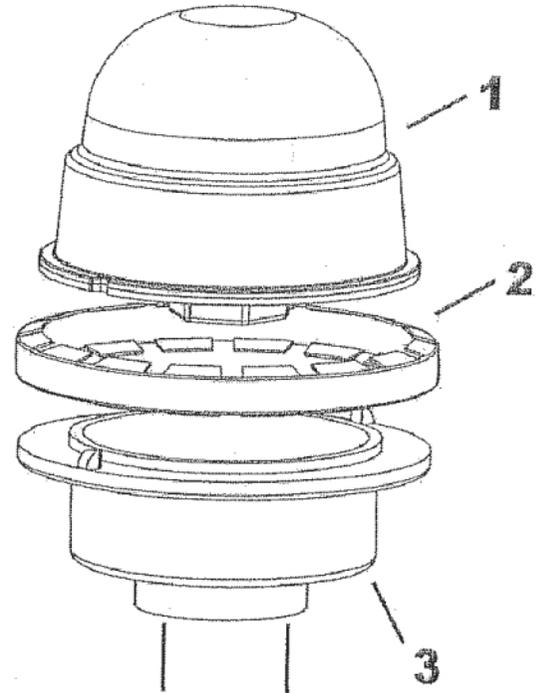
WARNING:

DE-ENERGIZE CIRCUIT BEFORE INSTALLING OR WORKING ON FIXTURE

INSTALLATION STEPS:

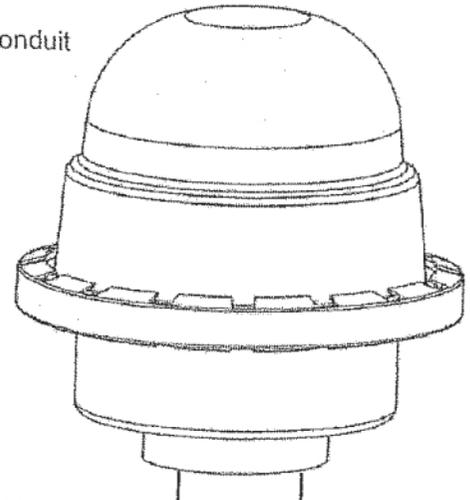
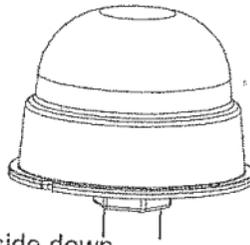
[RETRO INSTALLATION]

- Remove existing lens and clamp [2] from existing fixture
- Do not discard clamp [2] since it will be used to secure light assembly [1]
- Remove and discard all internal components required for use with incandescent bulb
- Leave only the source wires that lead into the existing base [3]
- Electrically connect the supply wires to the light assembly [1] wires
 - Connect the light assembly wire [with voltage label] to the Hot AC line
 - Connect the light assembly wire [without label] to the Neutral AC line
 - Connect the green grounding wire to the Ground line
- Tuck the connected wires inside the existing base [3]
- Place light assembly [1] on existing base [3] and secure using existing clamp [2]
- Restore power and verify operation



[3/4-14 NPT CONDUIT INSTALLATION]

- Electrically connect the supply wires to the light assembly [1] wires
 - Connect the light assembly wire [with voltage label] to the Hot AC line
 - Connect the light assembly wire [without label] to the Neutral AC line
 - Connect the green grounding wire to the Ground line
- Use a 1-1/4" wrench to tighten and attach the light assembly [1] to the conduit
- Restore power and verify operation



ATTENTION:

This device is not intended to be mounted up-side down
 The device mounted up-side down will not meet necessary specifications

Please refer to product data sheet for electrical parameters if required

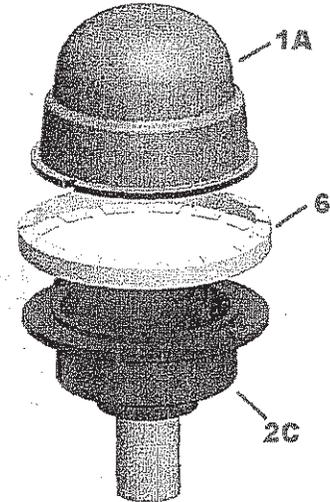
* Patent Pending

REV	ECO NO	DRN	CHD	APP	CM	DATE
B	08012506	AV	TC	KFE	JG	2-13-08

INSTALLATION INSTRUCTIONS and PARTS LIST
 SINGLE, DUAL and RETRO FIXTURES
 MINI L-810 OBSTRUCTION LIGHT

RETRO INSTALLATION STEPS:

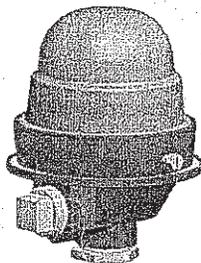
- ▶ Remove existing lens and clamp [6] from existing fixture
- ▶ Do not discard clamp [6] since it will be used to secure light assembly [1A]
- ▶ Remove and discard all internal components required for use with incandescent bulb
- ▶ Leave only the source wires that lead into the existing base [2C]
- ▶ Electrically connect the supply wires to the light assembly [1A] wires
 - same as SINGLE FIXTURE installation
- ▶ Tuck the connected wires inside the existing base [2C]
- ▶ Place light assembly [1A] on existing base [2C] and secure using existing clamp [6]
- ▶ Restore power and verify operation



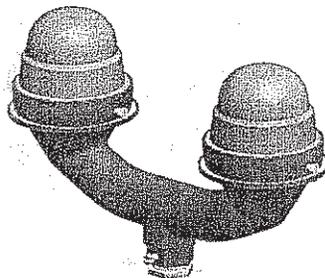
RETRO ONTO 3/4-14 NPT CONDUIT INSTALLATION STEPS:

- ▶ Electrically connect the supply wires to the light assembly [1A] wires
 - same as SINGLE FIXTURE installation
- ▶ Use a 1-1/4" wrench to tighten and attach the light assembly [1A] to the conduit
- ▶ Restore power and verify operation

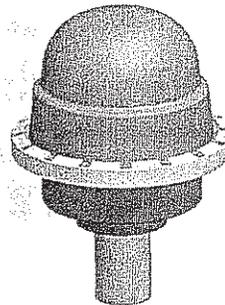
Please refer to product data sheet for electrical parameters if required



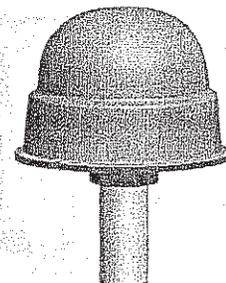
Single Housing Fixture



Dual Housing Fixture



Retro Fixture [Housing]



Retro Fixture [Conduit]

Patent Pending

PARTS LIST

Item	Part No.	Description	Item	Part No.	Description
1		Light Assembly [w/ Adapter]	3		1/4-20 x 1/2 Holding Screw
1A		Light Assembly [w/o Adapter]	4		1" Plug
2A	860-1000	Single Housing	5		1" to 3/4" Bushing
2B	860-2000	Dual Housing	6		Existing Installed Clamp
2C		Existing Installed Housing			

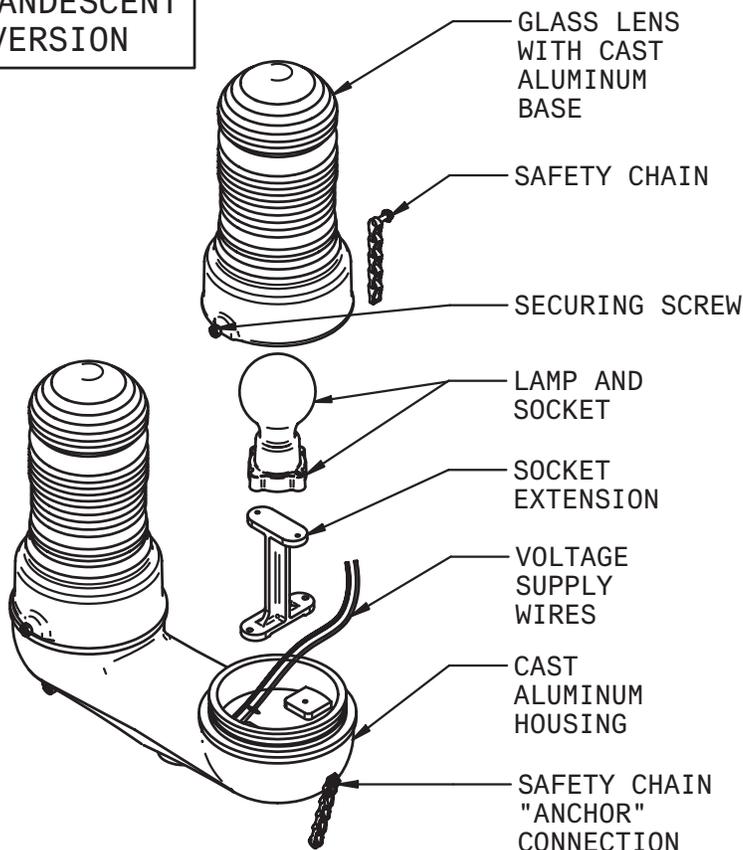
REV	ECONO	DRN	CHD	APP	CM	DATE
A	--	AV	RH	[Signature]		11-24-08

LED RETROFIT FOR BYMB OBSTRUCTION MARKERS

- - - (CHECK CARTON FOR HARDWARE BAG) - - -

NOTICE: Double obstruction marker with transfer relay will not operate properly with the AWRETRO120 LED assemblies. -

INCANDESCENT VERSION



WARNINGS

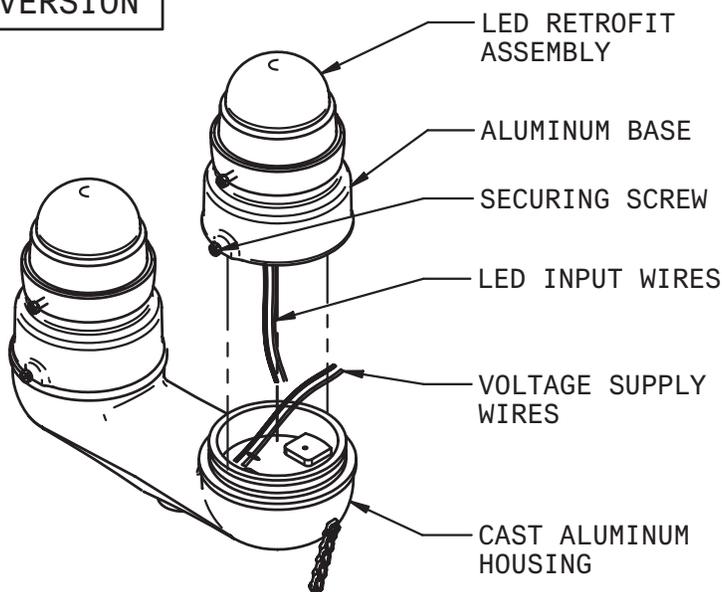
- DISCONNECT POWER BEFORE INSTALLATION OR SERVICE.
- INSTALL, OPERATE AND MAINTAIN TO MEET ALL APPLICABLE CODES.
- ALL SERVICE MUST BE PREFORMED BY QUALIFIED PERSONNEL.

DISASSEMBLY

- 1- Detach the SAFETY CHAIN from the ALUMINUM BASE that holds the GLASS LENS.
- 2- Loosen the SECURING SCREW.
- 3- Remove and discard the GLASS LENS and ALUMINUM BASE.
- 4- Disconnect or cut the VOLTAGE SUPPLY wires near the SOCKET.
- 5- Remove and discard the LAMP, SOCKET and SOCKET EXTENSION.

For double markers, repeat above steps for remaining lens/lamp.

LED VERSION



ASSEMBLY

- 6- Attach the SAFETY CHAIN to the ALUMINUM BASE of the RETROFIT ASSEMBLY. New hardware is supplied in the hardware bag.
- 7- Inspect the existing wiring. Remove unnecessary wire splices and excess wire, if any.
- 8- Connect the RETROFIT ASSEMBLY wires to the VOLTAGE SUPPLY wires:
 - Black to Black
 - White to White
 - Green to ground
- 9- Place RETROFIT ASSEMBLY over the CAST ALUMINUM HOUSING. Securely tighten the SECURING SCREW.

For double markers, repeat above steps as required.



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93020988

REV. -

INSTALLATION INSTRUCTIONS and PARTS LIST
SINGLE, DUAL and RETRO FIXTURES
MINI L-810 OBSTRUCTION LIGHT

PART No:

RTO 1x07 xxx [120/240 VAC, FAA]

RTO 6x07 xxx [120/240 VAC, Canada]

RTO 0x07 xxx [120/240 VAC, NonFAA]

RTO 1x06 xxx [277 VAC]

RTO 1x08 xxx [12-48 VDC]

5th digit ... x = color last 3 digits ... 001 = Single 002 = Dual 004 = Retro.

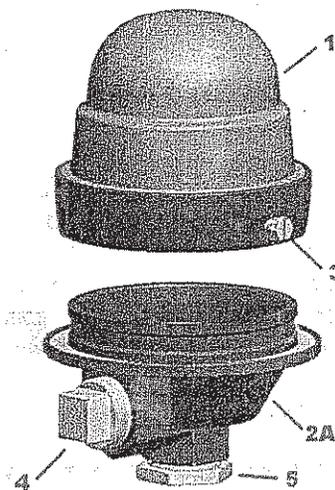
WARNING:

DE-ENERGIZE CIRCUIT BEFORE INSTALLING OR WORKING ON FIXTURE

The light assembly fixture can be mounted in any position. When mounted 'upright' [as illustrated] the fixture will meet the designed optical specifications for Aircraft Obstruction Warnings. When mounted in any other position, the fixture will not meet the designed optical specifications mentioned and will be considered as a visual signal fixture.

SINGLE FIXTURE INSTALLATION STEPS:

- ▶ The wire housing [2A] has a 1" NPT [3/4" bushing] end to be assembled to conduit [right angle or vertical]
 - Use a 1-1/2" wrench to tighten and attach the wire housing [2A] to the conduit
 - Remove reducing bushing [5] if threading into 1" NPT conduit
 - Use 1" NPT plug [4] to close threaded opening not being used
- ▶ Feed the supply wires through the conduit and wire housing [2A] leaving approx 6" of wire for termination inside the wire housing [2A].
- ▶ Electrically connect the supply wires to the light assembly [1] wires
 - Connect the light assembly wire [with voltage label] to the Hot AC line or Positive [+] line
 - Connect the light assembly wire [without label] to the Neutral AC line or Negative [-] line
 - Connect the light assembly green grounding wire to the Ground line
- ▶ Tuck the connected wires inside the wire housing [2A].
- ▶ Position light assembly [1] over the wire housing [2A] and secure using the holding screws [3].
- ▶ Restore power and verify operation



DUAL FIXTURE INSTALLATION STEPS:

- ▶ The dual housing [2B] has a 1" NPT end to be assembled to conduit
 - Remove reducing bushing [5] if threading into 1" NPT conduit
 - Use a 1-1/2" wrench to tighten and attach the dual housing [2B] to the conduit
 - Tighten the 1/4 screw [3] to secure the dual wire housing in position
- ▶ Feed the supply wires through the conduit and dual housing [2B] leaving approx 6" of wire for termination inside the wire housing [2B].
- ▶ Electrically connect the supply wires to the light assembly [1] wires
 - same as SINGLE FIXTURE installation
- ▶ Tuck the connected wires inside the dual housing [2B].
- ▶ Position each light assembly [1] over the dual housing [2B] and use the holding screws [3] to secure the light assembly in place
- ▶ Restore power and verify operation

