

Product Catalogue

January 2014

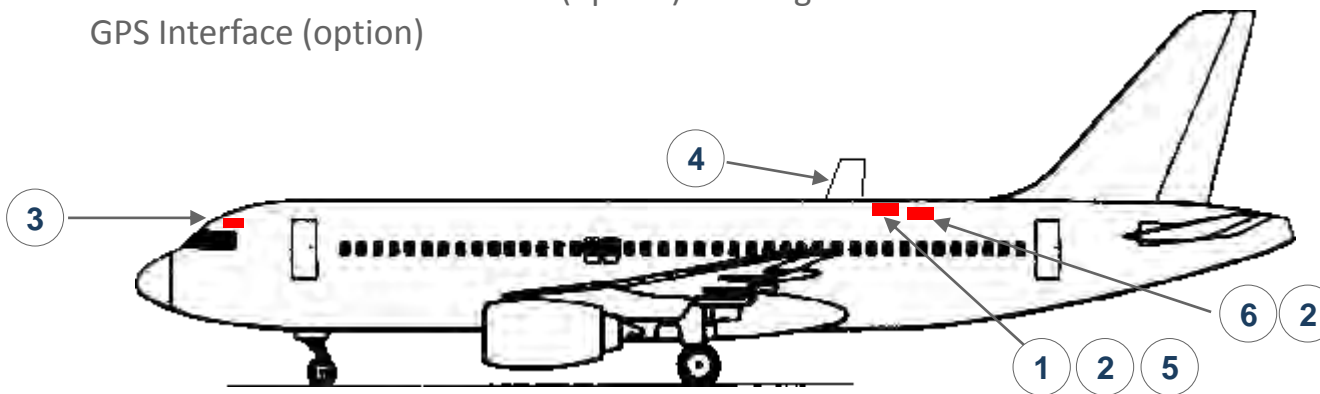
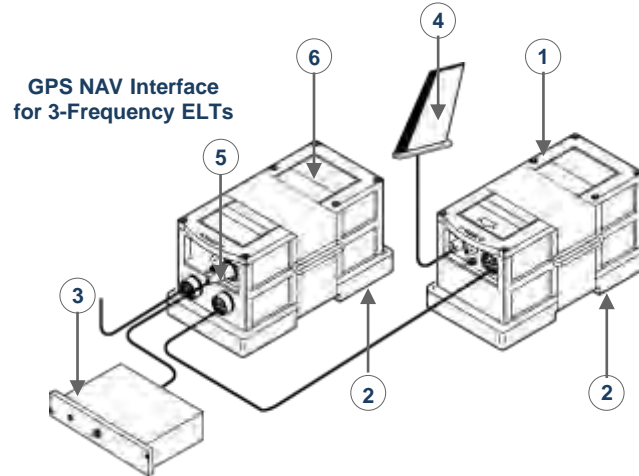
EMERGENCY LOCATION BEACONS



What do you require ?

...for an Automatic Fixed or Automatic Portable ELT system

- ① ELT transmitter
- ② Mounting Bracket
- ③ Remote Control Panel
- ④ External Antenna
- ⑤ Connector (minimum) or Programming Dongle (option)
- ⑥ ELT-GPS NAV interface module (option) or Dongle IF GPS Interface (option)

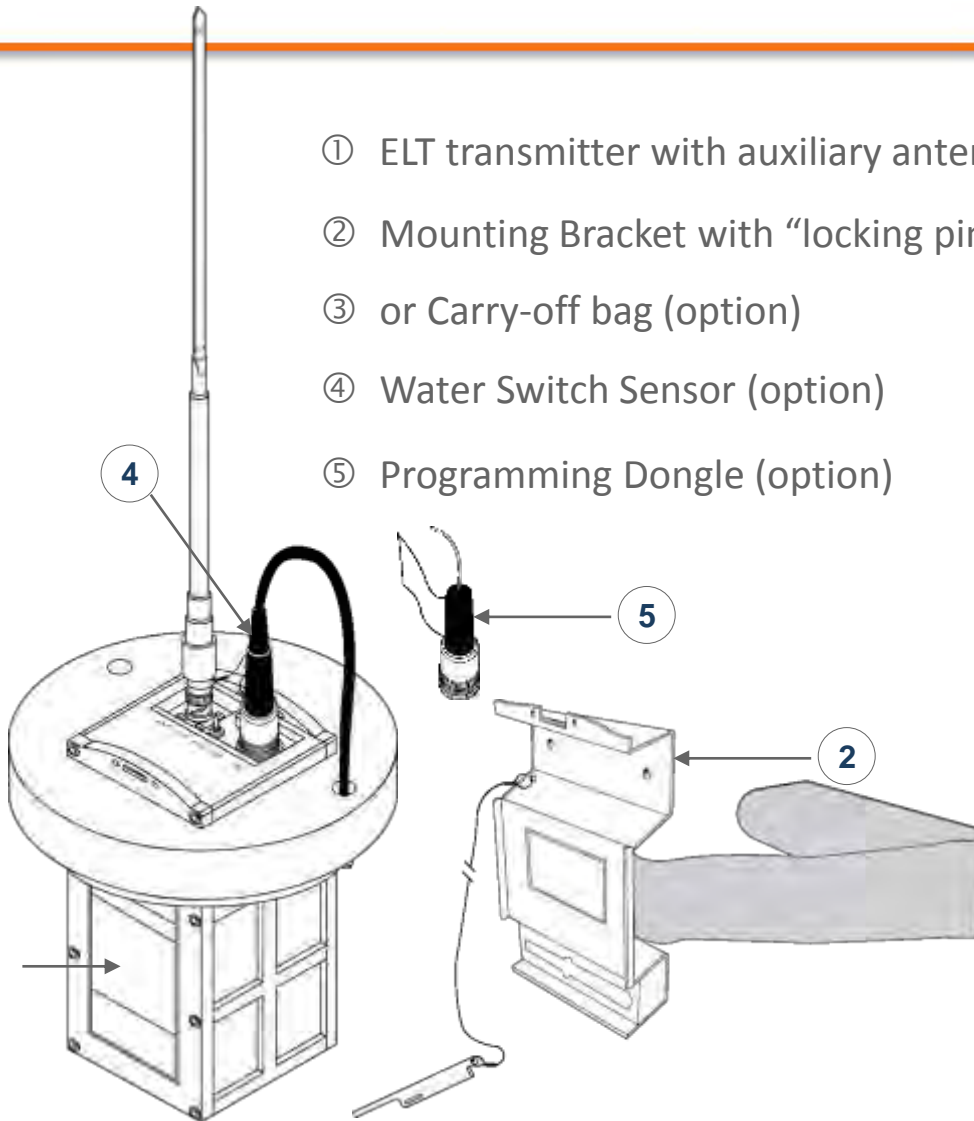


Exceptions

- The external antenna should be installed near the tail except for non metallic aircraft (wood, composite...) where an “auxiliary antenna” connected to the ELT might be accepted by the authorities
- The Remote Control Panel (RCP) is mandatory unless the ELT is “readily accessible from the pilot's normal seated position
- The “Programming dongle” is mandatory for “CS144 interface module” installation;
- The “Programming dongle” is not connected for “ARINC e-NAV” installation (may be attached to the ELT)
- Or the “Programming dongle” is part of the Dongle IF GPS RS232 interface (also named INTEGRA e-NAV NMEA)

... for a Survival ELT system

- ① ELT transmitter with auxiliary antenna
- ② Mounting Bracket with “locking pin” (option)
- ③ or Carry-off bag (option)
- ④ Water Switch Sensor (option)
- ⑤ Programming Dongle (option)



ELT solutions for all aircraft types

- Commercial aviation
- General Aviation
- Helicopters
- Light Aircraft
- Ultra Light Aircraft



Typical configurations

“I fly a C172”

- KANNAD 406 AF-Compact Kit + ANT200

Turboprop

- AF or AP INTEGRA+ MB + RC200 + OUTSIDE BUZZER + AV300 Antenna + DONGLE or DONGLE IF GPS RS232 (Option, GARMIN GPS compatible)

Corporate jet

- AF INTEGRA (ER, or optional ER-N) + MB + RC200 + OUTSIDE BUZZER + ANT650 + DONGLE + optional ARINC e-NAV GPS Interface (ARIN429 or ARINC743 compatible)

Airliners

- Fixed ELT:
AF INTEGRA (ER, or optional ER-N)+ MB + RC800 + OUTSIDE BUZZER + ANT650 + DONGLE + optional ARINC e-NAV GPS Interface (ARIN429 or ARINC743 compatible)
- Survival ELT:
KANNAD 406 Survival or KANNAD 406 TNC + Mounting Bracket AS or Carry-Off Bag

Helicopter

- AF-H or AP-H INTEGRA + MB + RC200 + AV300 Antenna + DONGLE + optional ARINC e-NAV GPS Interface (ARIN429 or ARINC743 compatible) + OUTSIDE BUZZER (option)

**For more details on how to build a chipset refer to the appropriate presentation
for Fixed Wing or for Helicopter application**

ELT transmitters (ELT)



406 MHz/121.5 MHz with integral antenna and internal GPS

- AP INTEGRA (ER) P/N S1850501-01
- AP INTEGRA P/N S1850501-02
- AF INTEGRA (ER) P/N S1851501-01
- AF INTEGRA P/N S1851501-02
- AF-H INTEGRA (ER) P/N S1852501-01
- AF-H INTEGRA P/N S1852501-02
- AP-H INTEGRA (ER) P/N S1854501-01

3-Frequency transmitters (121.5 / 243.0 / 406 MHz)

- KANNAD 406 AP P/N S1820502-02
- KANNAD 406 AP-H P/N S1820502-04
- KANNAD 406 AF P/N S1821502-02
- KANNAD 406 AF-H P/N S1822502-02
- KANNAD 406 AF(6D) P/N S1821502-06
- KANNAD 406 AS (TNC) P/N S1823502-03
- KANNAD 406 SURVIVAL P/N S1823502-05

406/121.5 MHz for General Aviation

- KANNAD 406 AF-COMPACT P/N S1840501-01

Common Features & Competitive edges

Reliability

- 25 years experience in 406 MHz technology (maritime)
- 15 years experience with more than 22 000 ELTs in service.

Technical

- Weight & Size (the smallest 406 MHz ELT in the world)
- Complying with latest regulation (JAR-OPS, ICAO...)
- Qualification (ETSO & TSO) on the same P/N (no retrofit required when changing country of registration)
- GPS Nav Interface available for each automatic ELT (exc AF-COMPACT).
- Short circuit protection (no combination of short circuits from the Remote Control Panel wires will stop the ELT once activated)
- Easy programming (no hardware operation)
- Pin-programming option (using a “programming dongle” or “smart connector”)
- 6 year battery

Customer support and customer care

- Worldwide distribution network
- Worldwide Service Centers network
- Worldwide Repair and Warranty Centers

Major OEM Recognition

INTEGRA ELTs Family with Integral antenna and Internal GPS



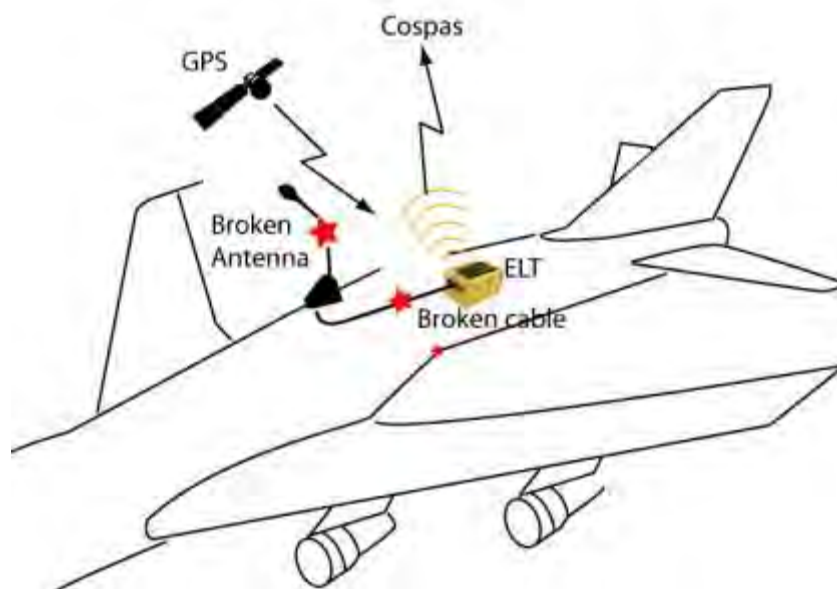
Major improvement

INTEGRA ELTs are an extension of the range of KANNAD 406 ELTs. The development of this type of ELTs is based on the improvement of safety of flights either for light aircraft, business aircraft or commercial aviation.

The INTEGRA ELTs family is composed of AP types (Automatic Potable) and AF types (Automatic Fixed).

Both versions must be connected to an External Antenna, the AP version can be removed from the aircraft and used as Portable (or Survival) ELT when used outside and connected to an Auxiliary Antenna.

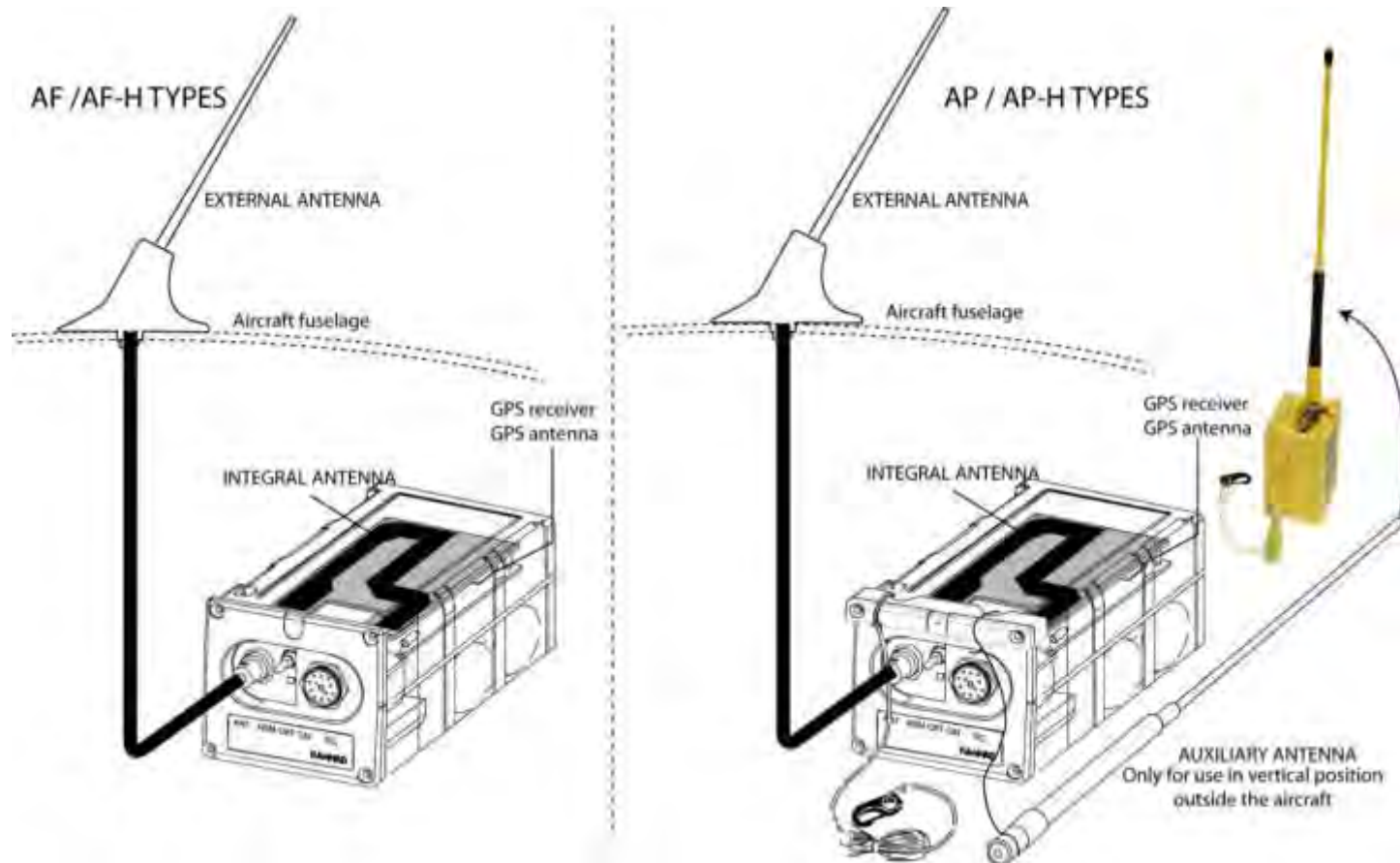
The safety of flights of INTEGRA ELTs is strengthened thanks to a built-in GPS giving a more accurate position transmitted within minutes following the distress and an Integral Antenna which may replace the external antenna in case on unavailability of this last one.



Note: The integral antenna has not been tested and approved by Cospas-Sarsat.

Ways of transmissions

In the event the External Antenna is unavailable due to the crash, the Integral Antenna will replace it to transmit the 406 MHz signal to the Cospas-Sarsat satellites. On AP / AP-H types, survivors can remove the ELT from the aircraft and use it as portable ELT thanks to an Auxiliary Antenna.



INTEGRA ELTs Family

AP INTEGRA (ER) (P/N S1850501-01)

Automatic portable ELT intended to be rigidly attached to the aircraft before the crash and connected to an external antenna but readily removable from the aircraft after a crash to be used as survival ELT (PLB).

Main features

- Automatic Portable ELT: Type ELT(AP)
- Cospas-Sarsat Class I
Operating Temperatures -40° to +55° C
- Two-frequency transmitter (121.5 / 406MHz)
406.037 MHz ,Operating Life time 24 hours at -40° C
121.5 Homing device, Operating Life time > 48 hours at -40° C
- 6 year battery life-time
- Short Circuit protection
- Internal GPS receiver / Internal GPS antenna
- Integral antenna
- Auxiliary antenna
- Weight: 878 g. (max)
- Transmitter Dimensions: 131x 86 x 75.4 mm
- Overall Dimensions: 285 x 119x 86.4 mm

Applications

- Fixed wing aircraft
- Can also suit helicopters, but with a special mounting tray (45° nose down)

Caution

- **P/N will be upgraded to P/N S1850501-03 for compliance with INTEGRA ARINC e-NAV P/N S1850581-01**
- The "Mounting Bracket" must be ordered separately



AP INTEGRA (P/N S185051-02)

Automatic portable ELT intended to be rigidly attached to the aircraft before the crash and connected to an external antenna but readily removable from the aircraft after a crash to be used as survival ELT (PLB).

Main features

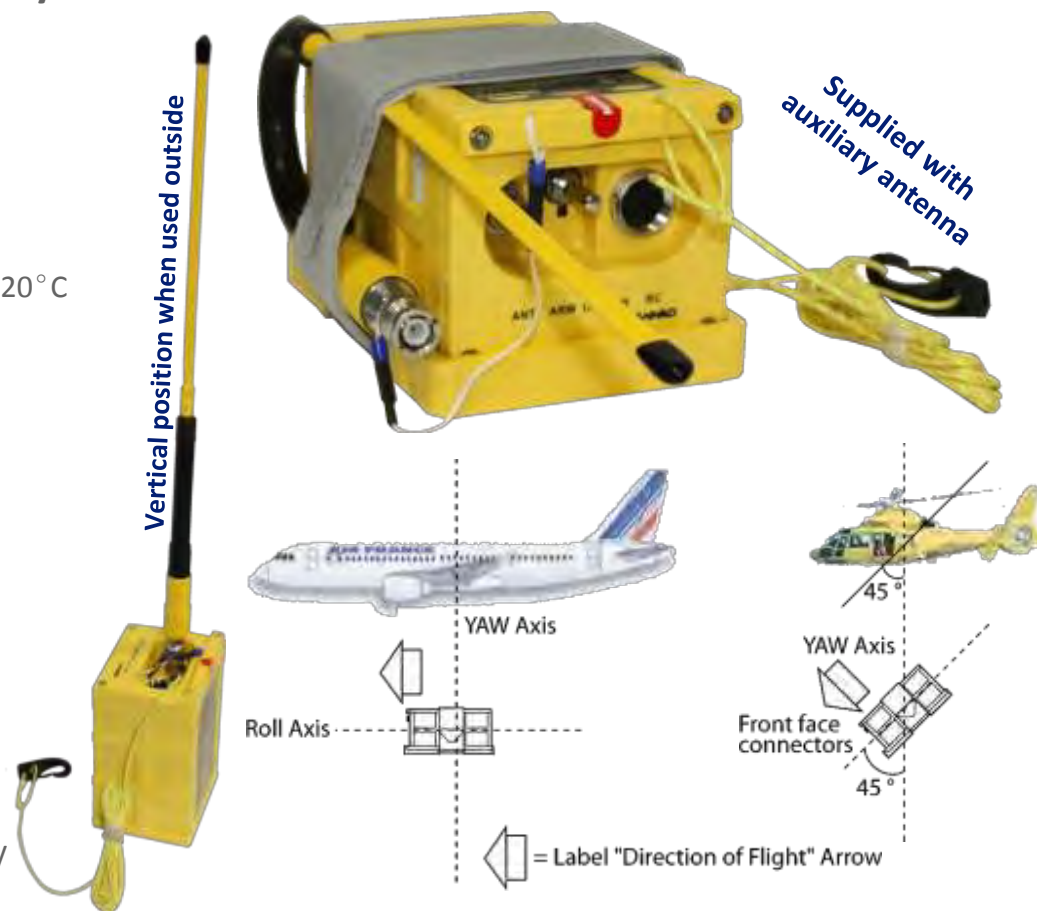
- Automatic Portable ELT: Type ELT(AP)
- Cospas-Sarsat Class II:
Operating Temperatures -20° to +55° C
- Two-frequency transmitter (121.5 / 406MHz):
406.037 MHz ,Operating Life time 24 hours at -20° C
121.5 Homing device, Operating Life time > 48 hours at -20° C
- 6 year battery life-time
- Short Circuit protection
- Internal GPS receiver / Internal GPS antenna
- Integral antenna transmitter
- Auxiliary antenna
- Weight: 878 g. (max)
- Transmitter Dimensions: 131x 86 x 75.4 mm
- Overall Dimensions: 285 x 119x 86.4 mm

Applications

- Fixed wing aircraft
- Can also suit helicopters, but with a special mounting tray (45° nose down)
-

Caution

- The "Mounting Bracket" must be ordered separately



Authorized configurations

AF INTEGRA (ER) (P/N S1851501-01)

Automatic Fixed ELT intended to be permanently attached to the aircraft and connected to an external antenna.

Main features

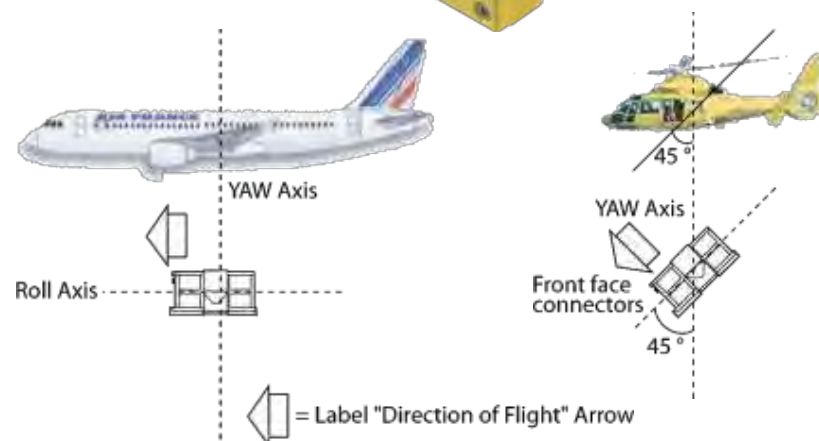
- Automatic Fixed ELT: Type ELT(AF)
- Cospas-Sarsat Class I
- Operating Temperatures -40° to +55° C
- Two-frequency transmitter (121.5 / 406MHz)
406.037 MHz ,Operating Life time 24 hours at -40° C
121.5 Homing device, Operating Life time > 48 hours at -40° C
- 6 year battery life-time
- Short Circuit protection
- Internal GPS receiver / Internal GPS antenna
- Integral antenna transmitter
- Weight: 755 g. (max)
- Transmitter Dimensions: 131x 86 x 75.4 mm
- Overall Dimensions:
With Mounting Bracket AF Compact : 140 x 98x 86.4 mm
With Compact Universal Mounting Bracket:175.12 x 99 .12 x 86.4 mm

Applications

- Fixed wing aircraft
- Can also suit helicopters, but with a special mounting tray (45° nose down)

Caution

- **P/N will be upgraded to P/N S1851501-03 for compliance with INTEGRA ARINC e-NAV P/N S1850581-01**
- The "Mounting Bracket" must be ordered separately



Authorized configurations

AF INTEGRA (P/N S1851501-02)

Automatic Fixed ELT intended to be permanently attached to the aircraft and connected to an external antenna.

Main features

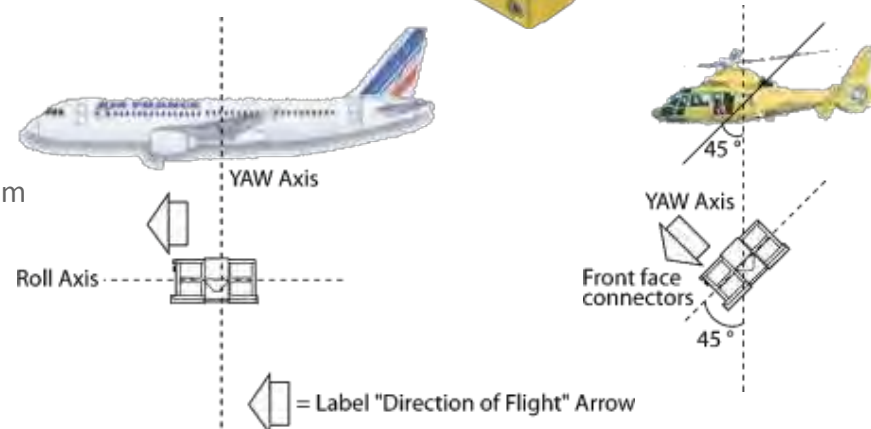
- Automatic Fixed ELT: Type ELT(AF)
- Cospas-Sarsat Class II:
Operating Temperatures -20° to +55° C
- Two-frequency transmitter (121.5 / 406MHz):
406.037 MHz ,Operating Life time 24 hours at -20° C
121.5 Homing device, Operating Life time > 48 hours at -20° C
- 6 year battery life-time
- Short Circuit protection
- Internal GPS receiver / Internal GPS antenna
- Integral antenna transmitter
- Weight: 755 g. (max)
- Transmitter Dimensions: 131x 86 x 75.4 mm
- Overall Dimensions:
With Mounting Bracket AF Compact : 140 x 98x 86.4 mm
With Compact Universal Mounting Bracket; 175.12 x 99 .12 x 86.4 mm

Applications

- Fixed wing aircraft
- Can also suit helicopters, but with a special mounting tray (45° nose down)

Caution

- The “Mounting Bracket” must be ordered separately



Authorized configurations

AF-H INTEGRA (ER) (P/N S1852501-01)

Automatic Fixed ELT intended to be permanently attached to the aircraft and connected to an external antenna.

Main features

- Automatic Fixed ELT: Type ELT(AF)
- Cospas-Sarsat Class I
Operating Temperatures -40° to +55° C
- Two-frequency transmitter (121.5 / 406MHz)
406.037 MHz ,Operating Life time 24 hours at -40° C
121.5 Homing device, Operating Life time > 48 hours at -40° C
- 6 year battery life-time
- Short Circuit protection
- Internal GPS receiver / Internal GPS antenna
- Integral antenna transmitter
- Weight: 760g. (max)
- Transmitter Dimensions: 131x 86 x 75.4 mm
- Overall Dimensions:
With Mounting Bracket AF Compact : 140 x 98x 86.4 mm
With Compact Universal Mounting Bracket: 175.12 x 99 .12 x 86.4 mm

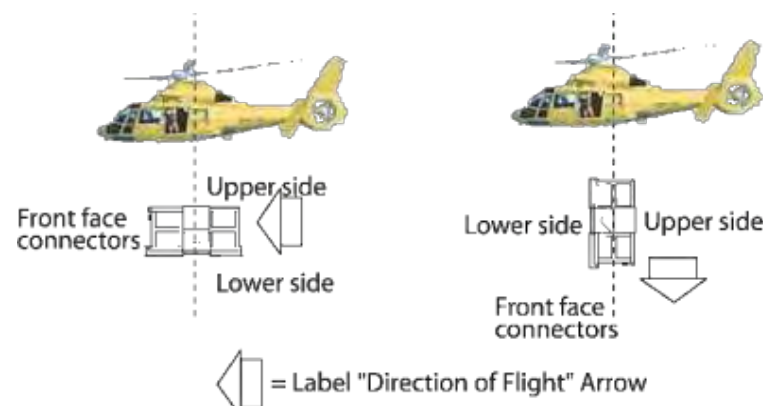


Applications

- Flat (or vertical) installation on board helicopters only

Caution

- **P/N will be upgraded to P/N S1852501-03 for compliance with INTEGRA ARINC e-NAV P/N S1850581-01**
- The "Mounting Bracket" must be ordered separately



Authorized configurations

AF-H INTEGRA (P/N S1852501-02)

Automatic Fixed ELT intended to be permanently attached to the aircraft and connected to an external antenna.

Main features

- Automatic Fixed ELT: Type ELT(AF)
- Cospas-Sarsat Class II:
 - Operating Temperatures -20° to +55° C
- Two-frequency transmitter (121.5 / 406MHz):
 - 406.037 MHz ,Operating Life time 24 hours at -20° C
 - 121.5 Homing device, Operating Life time > 48 hours at -20° C
- 6 year battery life-time
- Short Circuit protection
- Internal GPS receiver / Internal GPS antenna
- Integral antenna transmitter
- Weight: 760g. (max)
- Transmitter Dimensions: 131x 86 x 75.4 mm
- Overall Dimensions:
 - With Mounting Bracket AF Compact : 140 x 98x 86.4 mm
 - With Compact Universal Mounting Bracket: 175.12 x 99 .12 x 86.4 mm



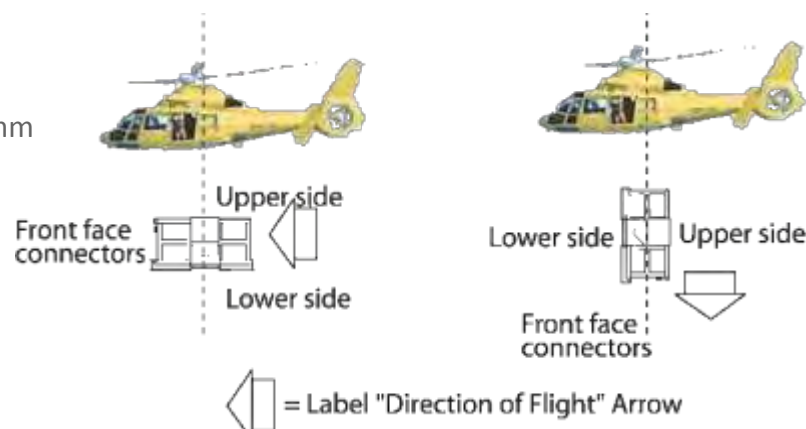
Supplied with auxiliary antenna

Applications

- Flat (or vertical) installation on board helicopters only

Caution

- The "Mounting Bracket" must be ordered separately



Authorized configurations

AP-H INTEGRA (ER) (P/N S1854501-01)

Automatic portable ELT intended to be rigidly attached to the aircraft before the crash and connected to an external antenna but readily removable from the aircraft after a crash to be used as survival ELT (PLB).

Main features

- Automatic Portable ELT: Type ELT(AP)
- Cospas-Sarsat Class I
- Operating Temperatures -40° to +55° C
- Two-frequency transmitter (121.5 / 406MHz)
406.037 MHz ,Operating Life time 24 hours at -40° C
121.5 Homing device, Operating Life time > 48 hours at -40° C
- 6 year battery life-time
- Short Circuit protection
- Internal GPS receiver / Internal GPS antenna
- Integral antenna transmitter
- Auxiliary antenna
- Weight: 883 g. (max)
- Transmitter Dimensions: 131x 86 x 75.4 mm
- Overall Dimensions: 285 x 119x 86.4 mm

Applications

- Flat (or vertical) installation on board helicopters only

Caution

- **P/N will be upgraded to P/N S1854501-03 for compliance with INTEGRA ARINC e-NAV P/N S1850581-01**
- The "Mounting Bracket" must be ordered separately



Authorized configurations

Packs INTEGRA AF (P/N 1202502) / INTEGRA AF-H (P/N 1202503)



Offered as a complete pack including transmitter, mounting bracket, RCP and connectors, the INTEGRA AF Pack or INTEGRA AF-H Packs consists of:

1. Transmitter AF INTEGRA designed for flat installation on fix wings aircraft or specific installation on helicopters (PACK P/N 1202502); or Transmitter AF-H INTEGRA designed for flat installation on helicopters (Pack P/N 1202503)
2. COMPACT Universal Mounting bracket designed for retrofit to replace a former 121.5 ELT by an AF or AF- H INTEGRA
3. RC200 Remote Control Panel
4. DIN-12 connector
5. SUB-D 9 Pts Female connector



406/121.5 MHz ELTs for General Aviation



KANNAD 406 AF-COMPACT (P/N S1840501-01)



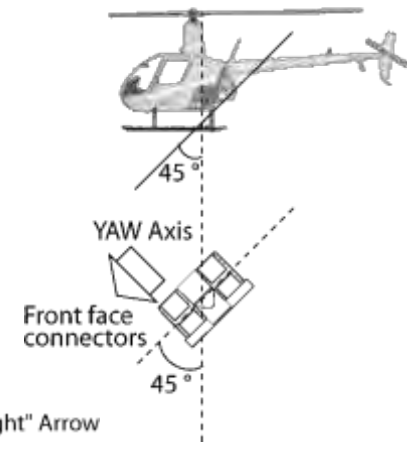
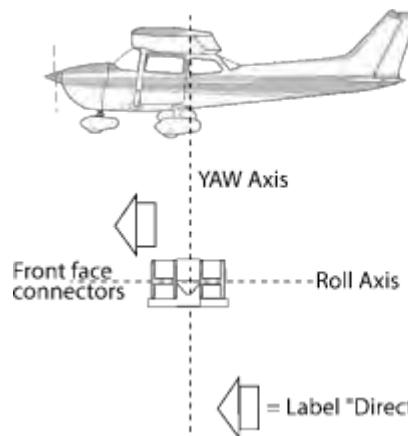
Main features

- Automatic Fixed ELT: Type ELT(AF)
- Cospas-Sarsat Class II (Operating temperature -20° C to +55° C)
- Specifically designed to satisfy the requirements of general aviation
- Two frequency transmitter (121.5 / 406MHz)
- 6 year battery life-time
- Short Circuit protection
- Weight: Typical 850g Max 875g
- Dimensions: 140 x 98 x 86.4mm
- Can easily be held in one hand
- Fixed wing aircraft
- Can also suit helicopters but with a special mounting tray (45° nose down)
- Now compatible with 2-wire remote control panels

Applications

Selected by :

- Robinson Helicopters
- Aquila A/C
- Quest, Lancair
- AOPA New Zealand



Pack KANNAD 406 AF-COMPACT (P/N S1840501-02)

Offered as a complete pack including transmitter, mounting bracket, RCP and connectors, the KANNAD 406 AF-COMPACT Pack consists of:

1. Transmitter KANNAD 406 AF-COMPACT
2. COMPACT Universal Mounting bracket designed for retrofit to replace a former 121.5 ELT by a KANNAD 406-AF COMPACT
3. RC200 Remote Control Panel
4. DIN-12 connector
5. SUB-D 9 Pts Female connector



3-Frequency ELTs



KANNAD 406 AP (P/N S1820502-02)

Main features

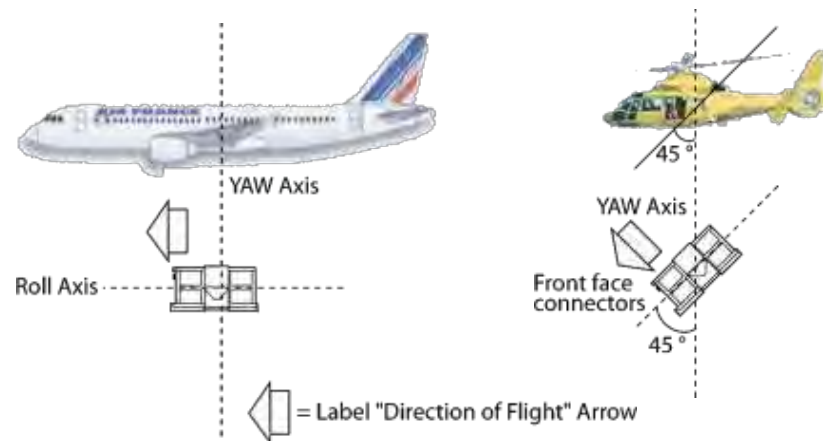
- Automatic Portable ELT: Type ELT(AP)
- Three frequency transmitter (121.5 / 243 / 406MHz)
- 6 year battery life-time
- Short Circuit protection
- Weight: 1290g (max)
- Transmitter Dimensions: 172 x 82 x 82mm
- Overall Dimensions: 290 x 115 x 95mm

Applications

- Fixed wing aircraft
- Can also suit helicopters, but with a special mounting tray (45° nose down)
- Forward fit on
 - CESSNA Citation X, Exel, Sovereign
 - BOMBARDIER Dash8-Q400, BD100 (Continental Jet)
 - PILATUS PC12, PC21
 - EUROCOPTER

Caution

- The "Mounting Bracket, 1 Strap" must be ordered separately



KANNAD 406 AP-H (P/N S1820502-04)

Main features

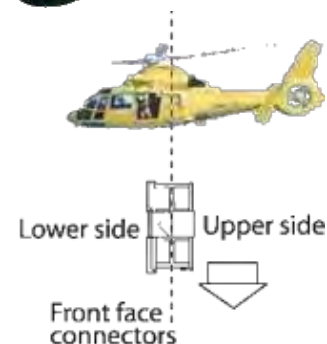
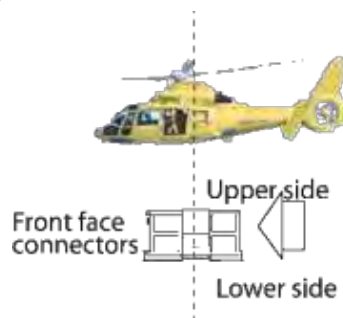
- Automatic Portable ELT: Type ELT(AP)
- Specially designed for helicopters
- Three frequency transmitter (121.5 / 243 / 406MHz)
- 6 year battery life-time
- Short Circuit protection
- Weight: 1290g (max)
- Transmitter Dimensions: 172 x 82 x 82mm
- Overall Dimensions: 290 x 115 x 95mm

Applications

- Flat (or vertical) installation on board helicopters

Caution

- The "Mounting Bracket, 1 Strap" must be ordered separately



◁ = Label "Direction of Flight" Arrow

KANNAD 406 AF (P/N S1821502-02)

Main features

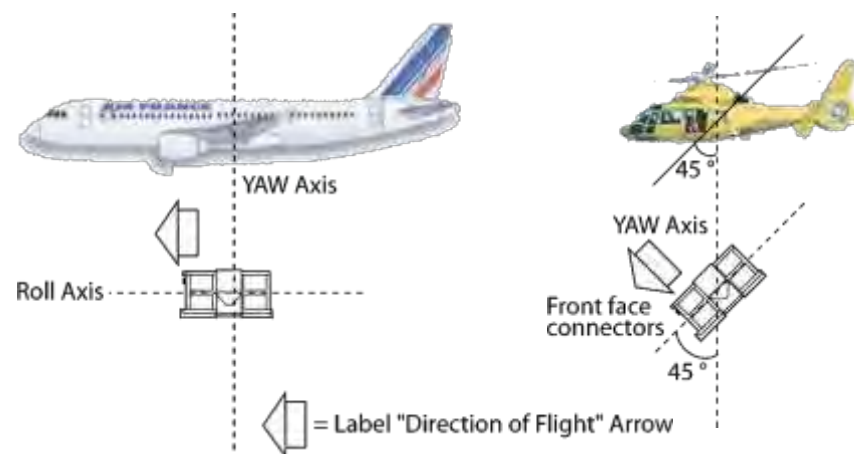
- Automatic Fixed ELT: Type ELT(AF)
- Three frequency transmitter (121.5 / 243 / 406MHz)
- 6 year battery life-time
- Short Circuit protection
- Weight: 1180g (max)
- Transmitter Dimensions: 172 x 82 x 82mm

Applications

- Fixed wing aircraft
- Can also suit helicopters but with a special mounting tray (45° nose down)
- Forward fit on
 - CESSNA Citation X, Exel, Sovereign
 - BOMBARDIER Dash8-Q400, BD100 (Continental Jet)
 - SUKHOI RRJ100
 - PILATUS PC12, PC21
 - EUROCOPTER

Caution

- The "Mounting Bracket, 1 Strap" must be ordered separately



KANNAD 406 AF-H (P/N S1822502-02)

Main features

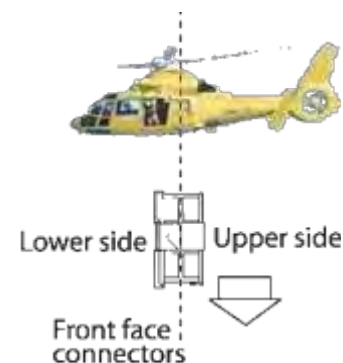
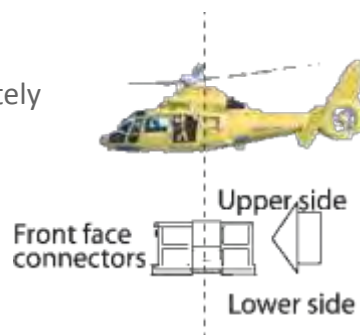
- Automatic Fixed ELT: Type ELT(AF)
- Specially designed for helicopters
- Three frequency transmitter (121.5 / 243 / 406MHz)
- 6 year battery life-time
- Short Circuit protection
- Weight: 1190g (max)
- Transmitter Dimensions: 172 x 82 x 82mm

Applications

- Flat(or vertical) installation on board helicopters
- Forward fit on
 - EUROCOPTER EC120, EC130
 - EUROCOPTER TIGER

Caution

- The "Mounting Bracket, 1 Strap" must be ordered separately



 = Label "Direction of Flight" Arrow

KANNAD 406 AS TNC (P/N S1823502-03)

Main features

- Survival ELT: Type ELT(S)
- Three frequency transmitter (121.5 / 243 / 406MHz)
- 6 year battery life-time
- Overall dimensions (antenna deployed) 590 mm x 160 mm x 160 mm
- Overall dimensions (packed) 290 mm x 165 mm x 165 mm
- Overall dimensions (on mounting bracket) 300 mm x 162 mm x 160 mm
- Weight (including battery, auxiliary antenna and flotation collar) typical 1180g / max 1250g

Applications

- Installation in the cabin or stowed inside the life raft
- Selected by British Airways for the whole fleet and by Australian Airforce
- Can be installed on "Mounting Bracket, AS" or in a "Carry-off bag, AS"
- Can be automatically activated in contact with water if "Water Switch Sensor Kit" (P/N S1820514-14)

Caution

- Fitted with a TNC antenna receptacle
- Mounting bracket AS or AS-PLUS or Carry-off bag must be ordered separately



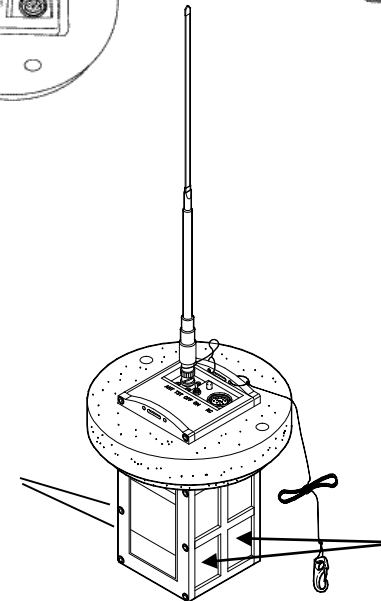
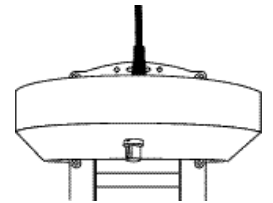
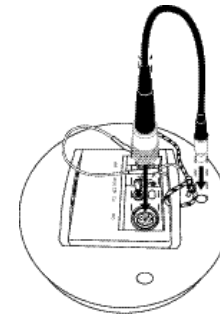
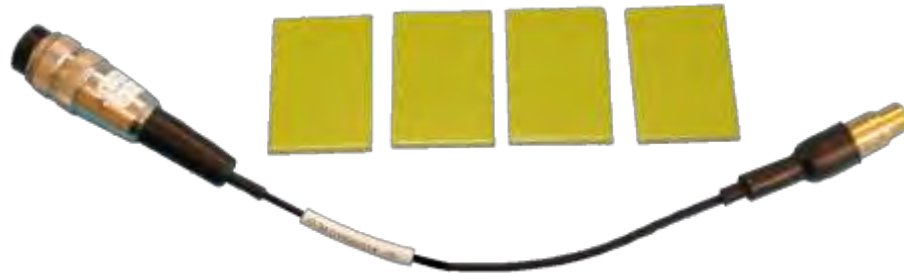
Water Switch Sensor KIT (P/N S1820514-14)

Kit contents

- A water switch sensor connector fitted with:
- A Din-12 connector for connection to the ELT
- An RCA plug used as electrodes
- Four ballasts to counter-balance the weight located on the upper side of the ELT and to improve stability in the water in a vertical position
- A label warning "SWITCH TO ARM TO ENABLE AUTOMATIC ACTIVATION"

Applications

- To enable activation of ELT when immersed in water
- Connector dimensions 66mm x Ø 17mm
- Water Switch Sensor weight 35g (max. 37g)
- Ballast weight: 20g each (max. 22 g)



KANNAD 406 SURVIVAL (P/N S1823502-05)

Main features

- Survival ELT: Type ELT(S)
- Three frequency transmitter (121.5 / 243 / 406MHz)
- 6 year battery life-time
- Overall dimensions (antenna deployed) 590mm x 160mm x 160mm
- Overall dimensions (packed) 290mm x 165mm x 165mm
- Overall dimensions (on mounting bracket) 300mm x 162mm x 160mm
- Weight (including battery, auxiliary antenna, flotation collar and water switch sensor)
typical 1305g / max 1375g

Applications

- Installation in the cabin or stowed inside the life raft
- Selected by UNITED AIRLINES
- Can be installed on "Mounting Bracket, AS" or in a "Carry-off bag, AS"
- Automatically activated in contact with water

Caution

- Fitted with a TNC antenna receptacle
- Mounting bracket AS or AS-PLUS or Carry-off bag must be ordered separately



ELT / NAV INTERFACES

The purpose of the ELT/NAV interface is to receive the on board GPS position and store them until an eventual ELT activation. These data are included in the 406 MHz message being transmitted to COSPAS-SARSAT satellite system to accurately identify the ELT position in the event of ELT activation.

This position will be transmitted after the ELT activation.

ARINC429

- Compatible with all 3-Frequency KANNAD 406 ELTs except, AS and SURVIVAL

- ELT-NAV INTERFACE KIT, CS144-A

P/N S1825501-02

ARINC429 / ARINC743

- Compatible with ELTs INTEGRA (ER-N) family

- INTEGRA ARINC e-NAV

P/N S1850581-01

RS232

- Compatible with all INTEGRA ELTs

- DONGLE, RS232 IFGPS (also named INTEGRA e-NAV NMEA)

P/N S1820514-08

ELT-NAV Interface Kit, CS144-A (P/N S1825501-02)

ARINC429 Interface for 3-Frequency KANNAD 406 ELTs

Main features

- Combines the aircraft identification (contained in the programming dongle) with the aircraft position to generate the appropriate long message
- Every minute, updates an internal memory module that contains either the short or the long message
- Fits between ELT and dongle
- Connected to NAV equipment with ARINC 429 (Low or High speed)
- NAV equipment must send ARINC 429 labels 310 and 311
- Weight: 650g
- Dimensions : 180 x 82 x 82mm

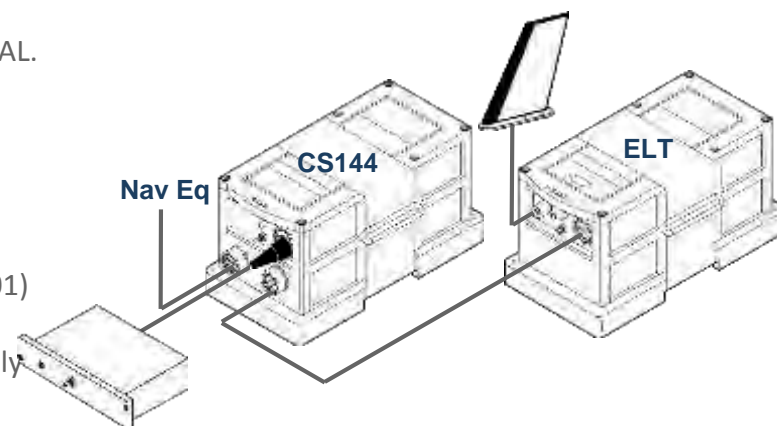


Applications

- Compatible with all 3-Frequency KANNAD 406 ELTs except, AS and SURVIVAL.
- Compatible with all RCP manufactured by Orolia S.A.S.
- Compatible with all Programming Dongles manufactured by Orolia S.A.S.

Caution

- ELT-NAV Interface Kit (P/N S1825501-02) includes ELT-NAV interface unit (P/N S1825502-02) plus CS144 to ELT cable (P/N S1825503-01)
- Distance between ELT and CS144 must be less than 45 cm
- The "Mounting Bracket, 1 Strap" (S1820511-01) must be ordered separately
- The use of a programming dongle is mandatory



INTEGRA ARINC e-NAV (P/N S1850581-01)

ARINC429 / ARINC 743 Interface for INTEGRA ELTs ER-N

Scheduled mid 2014

Main features

- External Navigation Device (END) used for INTEGRA ELTS and navigation equipment through ARINC 429/743
- Used to store GPS data coming from an on-board GPS ARINC429/ARINC743 output
- The position data is transmitted in the 406MHz distress message as soon as the ELT is activated
- NAV equipment must send ARINC429 labels 310 and 311 or ARINC743 labels 110 and 110,
- Power supplied by on board 28 VDC power supply
- Operating temperatures: -40°C to + 55°C
- Weight: 176 g (1350 g to 1555 g with ELT and Mounting Bracket according to ELT types)
- Dimensions : 91 mm x 71 mm x 76 mm
(205 mm x 119 mm x 87 mm with ELT Automatic Fixed and Mounting Bracket)
(360 mm x 149 mm x 88 mm with ELT Automatic Portable and Mounting Bracket)

Applications

- Compatible with ELTs ER-N:
AP INTEGRA (ER-N) P/N S1850501-03, AF INTEGRA (ER-N) P/N S1851501-03
AF-H INTEGRA (ER-N) P/N S1852501-03, AP-H INTEGRA (ER-N) P/N S1854501-03
- Compatible with all RCP manufactured by Orolia S.A.S.

Caution

- Shipset "INTEGRA ARINC e-NAV module", "Bracket Universal for INTEGRA e-NAV ARINC" and INTEGRA ELT must be ordered separately



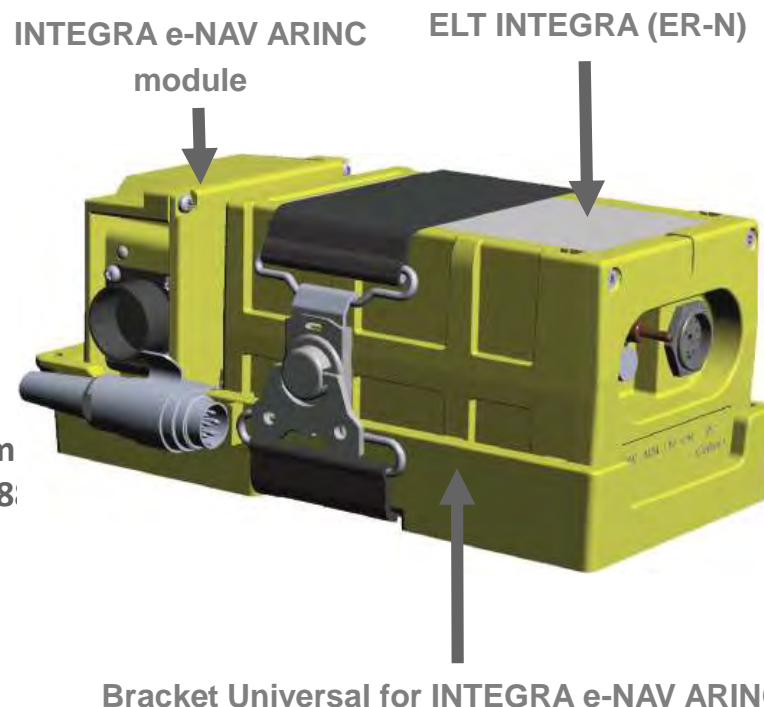
INTEGRA e-NAV ARINC module

SHIPSET FOR INTEGRA ARINC e-NAV

Shipset for INTEGRA ARINC e-NAV shall include

Scheduled mid 2014

- INTEGRA ARINC e-NAV module P/N S1850581-01
- Bracket Universal for INTEGRA e-NAV ARINC for ELT (AP), P/N S1850551-01 or Bracket Universal for INTEGRA e-NAV ARINC for ELT (AF), P/N S1850551-02
- An ELT INTEGRA (ER-N):
AP INTEGRA (ER-N) P/N S1850501-03,
or AF INTEGRA (ER-N) P/N S1851501-03
or AF-H INTEGRA (ER-N) P/N S1852501-03,
or AP-H INTEGRA (ER-N) P/N S1854501-03
- Total weight:
With Automatic fixed ELTs: 1355 g. max,
With Automatic portable ELTs: 1555 g. max.
- Overall dimensions:
With Automatic fixed ELTs: Max 205 mm x 119 mm x 87 mm
With Automatic portable ELTs: Max 360 mm x 149 mm x 87 mm
- Operating temperatures: -40°C to +55°C

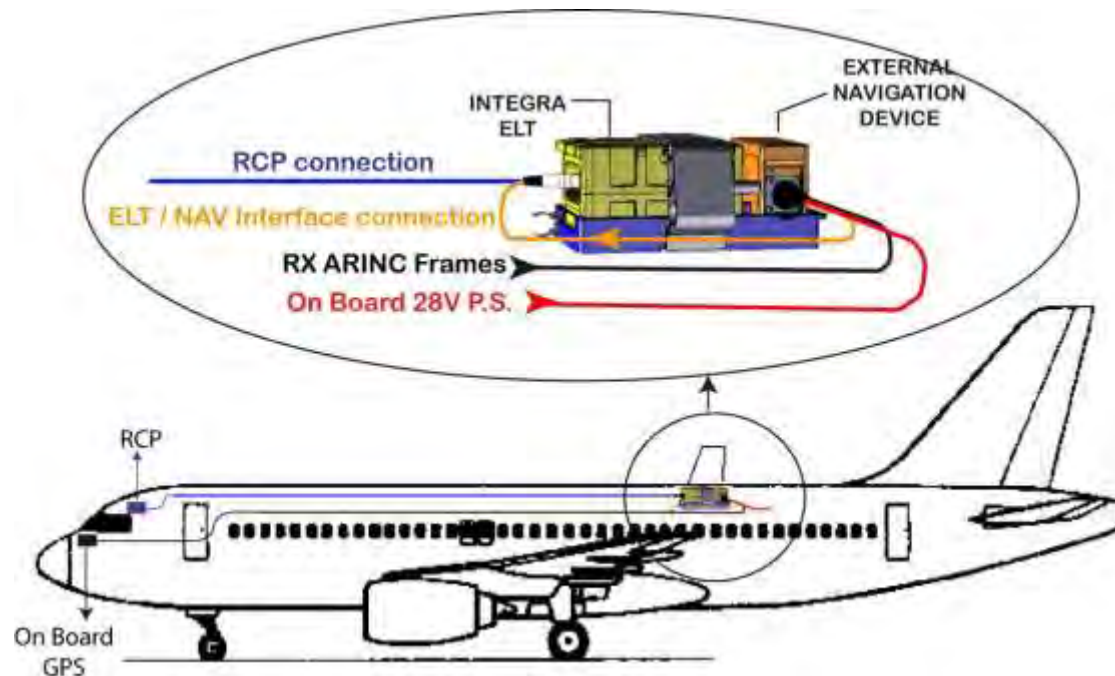


INTEGRA ARINC e-NAV (P/N S1850581-01)

ARINC429 / ARINC743 Interface for INTEGRA ELTs ER-N, Installation on Board

- Designed to be installed on a “Bracket Universal for INTEGRA e-NAV ARINC for ELT (AF)” P/N S1850551-02 or a “Bracket Universal for INTEGRA e-NAV ARINC for ELT (AP)” P/N S1850551-01
- The ELT is installed in the same mounting bracket than the INTEGRA ARINC e-NAV
- A programming dongle can be attached to the mounting bracket

Scheduled mid 2014



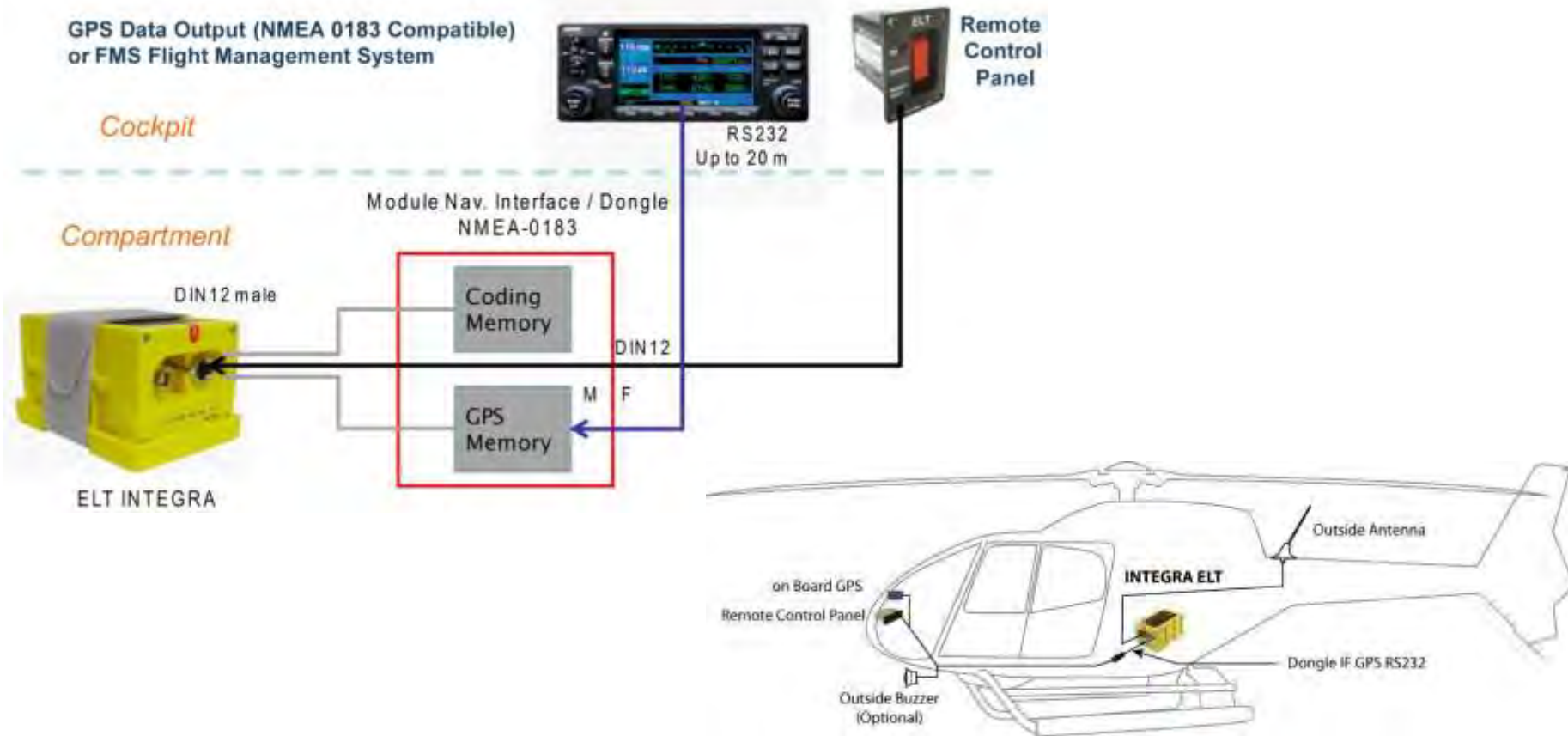
DONGLES

DONGLE IF-GPS RS232

INTEGRA e-NAV NMEA

RS232 Interface for INTEGRA ELTs

820514-08

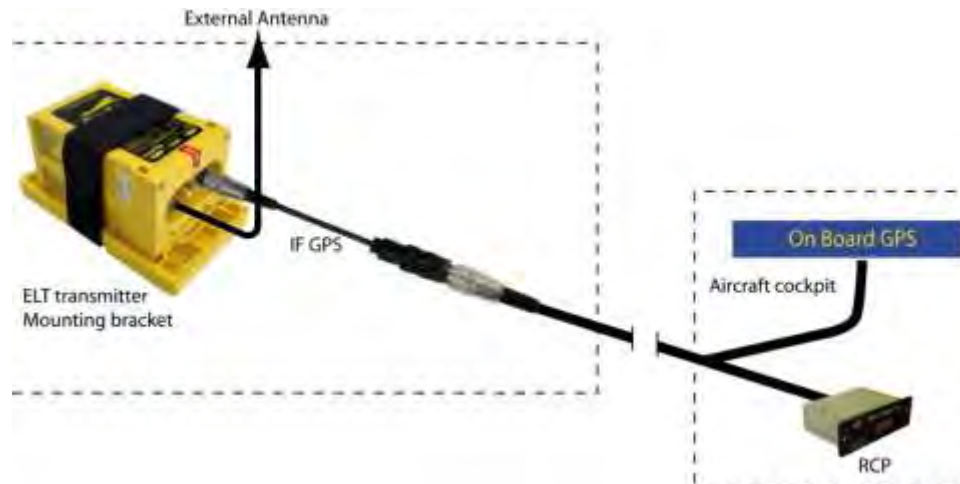


DONGLE IF-GPS RS232 (P/N S1820514-08)

INTEGRA e-NAV NMEA

Main features

- ELT/NAV interface compatible with all INTEGRA ELTs
- Compliant with Cospas-Sarsat specifications
- Connected to NAV equipment with RS232
- Sentence Format: GPGLL, GPRMC, GPGLL
- Speed up to 9600 bauds
- NAV equipment must send NMEA 0183
- GPS Compatible: GARMIN GNS 430 & 430 WAS
- Fitted with a Programming Dongle
- Weight: 100 g
- Dimensions : Length 350 mm



MOUNTING BRACKETS

Mounting brackets (MB)

- **For INTEGRA ELTs and KANNAD 406 AF COMPACT**
 - MOUNTING BRACKET, AF-COMPACT P/N S1840502-01
 - COMPACT UNIVERSAL MOUNTING BRACKET P/N S1840502-02
- **For INTEGRA (ER-N) ELTs (with optional ARINC e-NAV interface)**
 - Bracket Universal for INTEGRA e-NAV ARINC for ELT (AP) P/N S1850551-01
 - Bracket Universal for INTEGRA e-NAV ARINC for ELT (AF) P/N S1850551-02
- **For automatic 3-Frequency ELTs**
 - MOUNTING BRACKET, 1 STRAP P/N S1820511-01
- **For survival ELTs**
 - MOUNTING BRACKET, AS P/N S1820511-02
 - MOUNTING BRACKET, AS-PLUS P/N S1820511-05
 - CARRY-OFF BAG, AS P/N S1820511-03
 - CARRY-OFF BAG, SHORT P/N S1820511-04

Mounting Bracket, AF-COMPACT (S1840502-01)

Main features

- Designed to fix the INTEGRA ELTs, KANNAD 406 AF-COMPACT with a retaining strap for quick removal in an emergency and for easy removal for maintenance or exchange
- Weight: 155g
- Dimensions: 140 x 98 x 16mm
- Designed for OEM and General Aviation market
- Strap will be redesigned to comply with TSO C126b for 2014 (P/N subject to be upgraded)



COMPACT UNIVERSAL Mounting Bracket (S1840502-02)

Main features

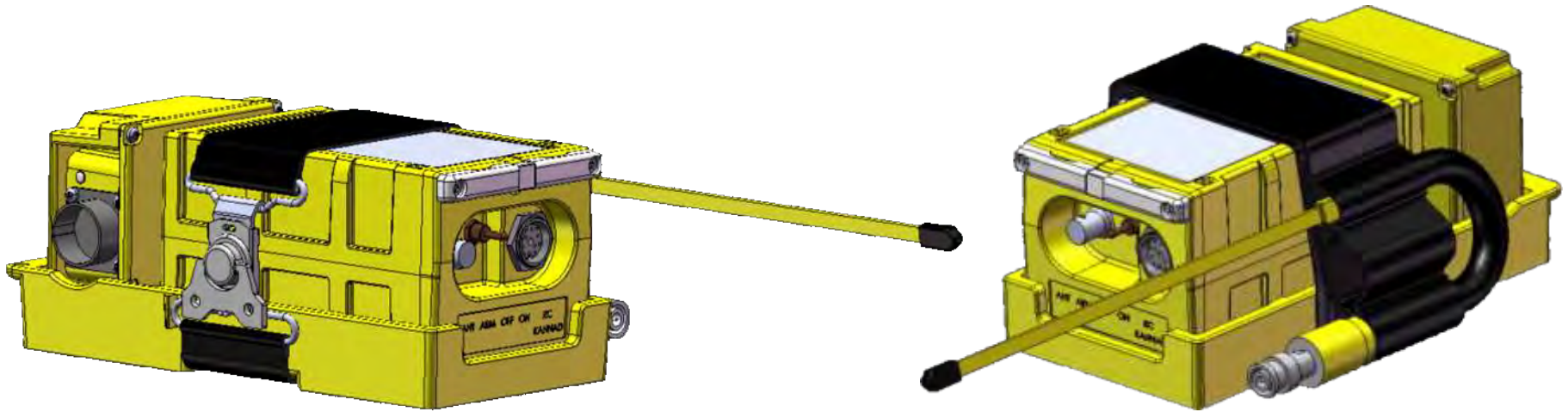
- Designed for retrofit to replace a former 121.5 ELT by a KANNAD 406 AF-COMPACT or an INTEGRA ELT
- Compatible with ACK, AMERIKING, ARTEX, JOLLIET, NARCO, POINTER
- Designed to fix the INTEGRA ELTs, KANNAD 406 AF-COMPACT with a retaining strap for quick removal in an emergency and for easy removal for maintenance or exchange
- Weight: 180g
- Dimensions: 175 x 99 x 16mm
- Designed for OEM and General Aviation
- Strap will be redesigned to comply with TSO C126b for 2014 (P/N subject to be upgraded)



Bracket Universal for INTEGRA e-NAV ARINC for ELT (AP) (S1850551-01)

Main features

- Specifically designed to keep in place INTEGRA ELTs of AP type and an INTEGRA e-NAV ARINC END Interface including attachment for auxiliary antenna
- Fulfils TSO C126b requirements banning “hook and loop fasteners” as an acceptable means of attachment,
- Weight: Typical 220 g
- Dimensions: Max 204.39 mm x 108.96 mm x 46.7 mm
- Compatible with ELTs, AP INTEGRA (ER-N), P/N S1850501-03 and AP-H INTEGRA (ER-N), P/N S1854501-03
- Compatible with INTEGRA ARINC e-NAV, P/N S1850581-01
- Designed for OEM and General Aviation

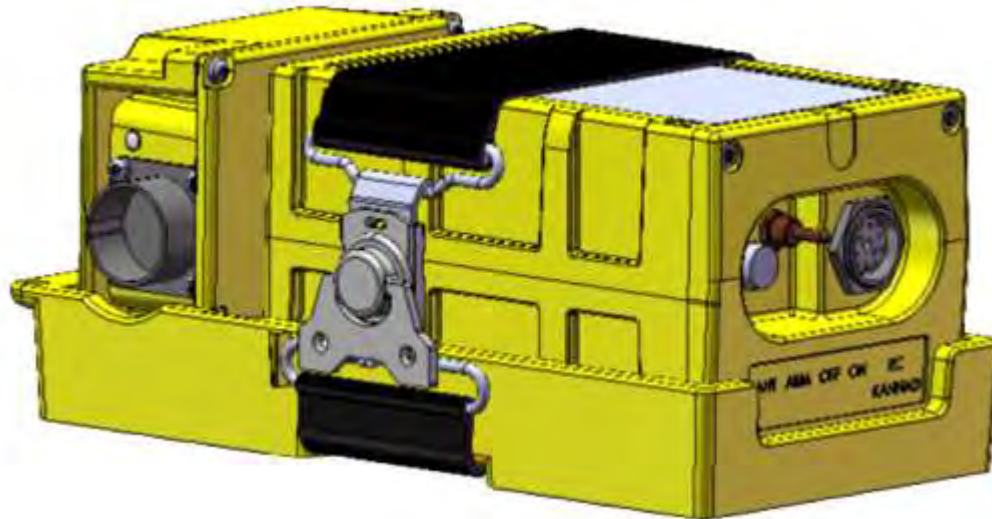


Scheduled mid 2014

Bracket Universal for INTEGRA e-NAV ARINC for ELT (AF) (S1850551-02)

Main features

- Specifically designed to keep in place INTEGRA ELTs of AF type and an INTEGRA e-NAV ARINC END Interface
- Fulfils TSO C126b requirements banning “hook and loop fasteners” as an acceptable means of attachment,
- Weight: Typical 220 g
- Dimensions: Max 204.39 mm x 108.96 mm x 46.7 mm
- Compatible with ELTs, AF INTEGRA (ER-N), P/N S1851501-03 and AF-H INTEGRA (ER-N), P/N S1852501-03
- Compatible with INTEGRA ARINC e-NAV, P/N S1850581-01
- Designed for OEM and General Aviation

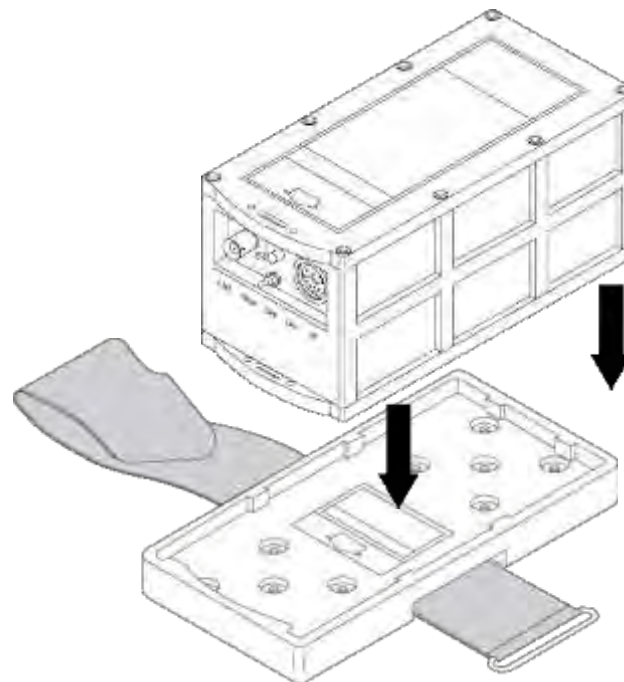
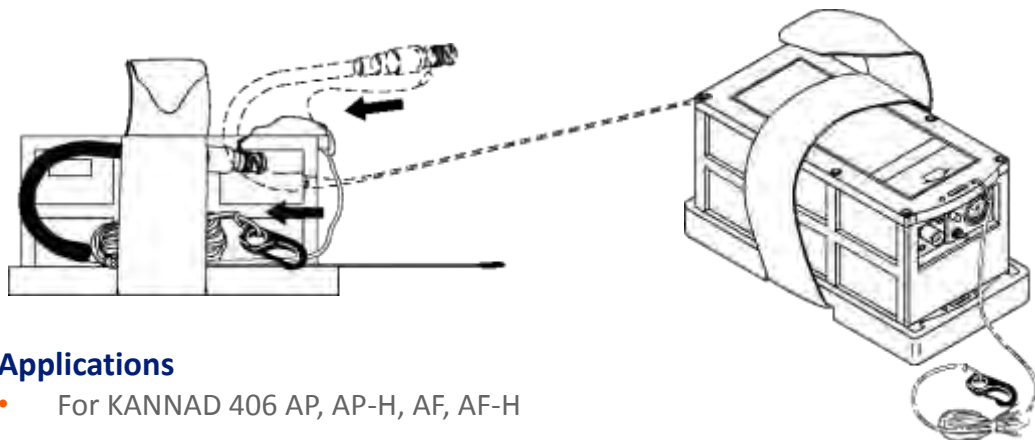


Scheduled mid 2014

Mounting Bracket, 1 Strap (P/N S1820511-01)

Main features

- Designed to fix the ELT with a retaining strap for quick removal in an emergency and for easy removal for maintenance or exchange.
- Designed to hold the auxiliary antenna folded (AP only)
- Able to hold the ELT in place during 500 G shock for 4 ms.
- Made of moulded yellow plastic
- Weight: 175g
- Dimensions: 181 x 94 x 16mm
- Strap will be redesigned to comply with TSO C126b for 2014 (P/N subject to be upgraded)



Applications

- For KANNAD 406 AP, AP-H, AF, AF-H

Caution

- The mounting bracket must be fixed to the primary aircraft load-carrying structure
- It may be necessary to add metal reinforcement if the structure is not rigid enough (if static local deflection is greater than 2.5mm (0.1 inch) when a force of 450 Newtons (100 lbf) is applied to the mount in the most flexible direction)
- The use of the four stainless steel screws with Nylstop nuts provided will ensure that the installation withstands 500G shocks

Mounting Bracket, AS (P/N S1820511-02)

Main features

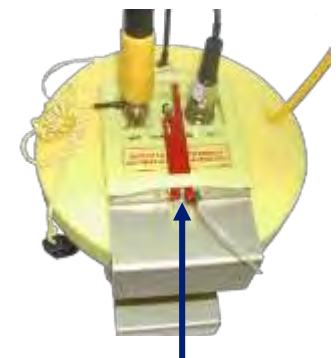
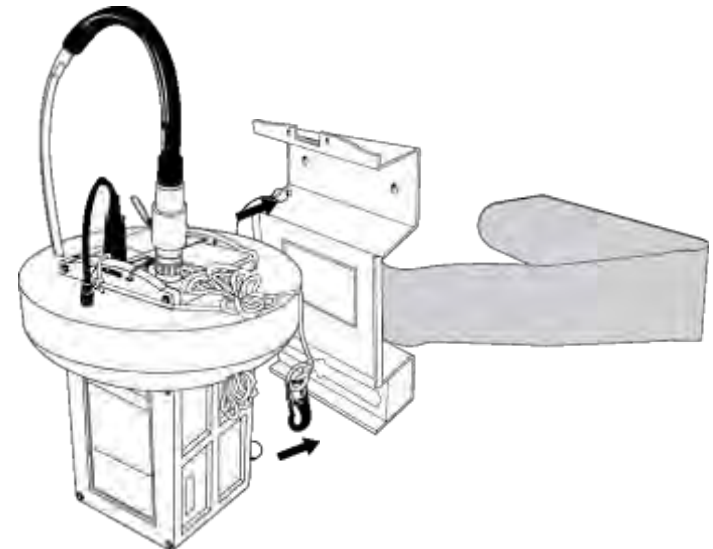
- Designed to:
 - install the ELT aboard the aircraft (retaining fastener)
 - prevent false alarms by means of a locking pin (that must be fitted to ELT)
 - seal the ELT (in order to prevent misuse)
 - store the programming dongle (not accessible when ELT is installed)
- Made of aluminium alloy & yellow foam
- Weight: 205g
- Dimensions: 173 x 80 x 41mm

Applications

- KANNAD 406 AS and SURVIVAL

Caution

- This mounting bracket is designed to hold the ELT in place (max 1250g (2.755 lb) when subjected to 9 Gs in any direction as per FAR/JAR 25.561(b)

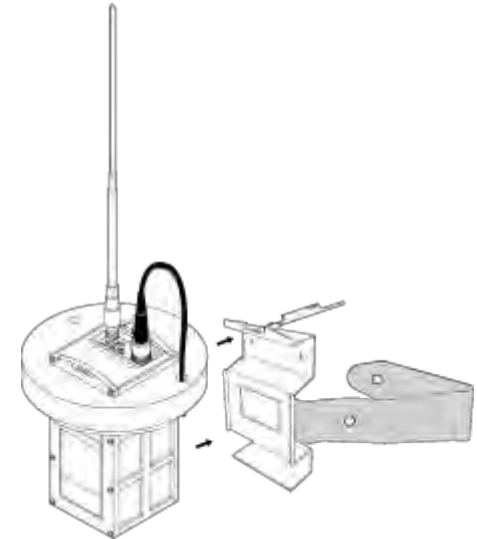


Locking Pin

Mounting Bracket, AS-PLUS (P/N S1820511-05)

Main features

- Designed to:
 - install the ELT aboard the aircraft (retaining fastener)
 - prevent false alarms by means of a locking pin (that must be fitted to ELT)
 - seal the ELT (in order to prevent misuse)
- Made of aluminium alloy & yellow foam
- Additional snaps to secure retaining fastener
- Weight: 205g
- Dimensions: 173 x 80 x 41mm

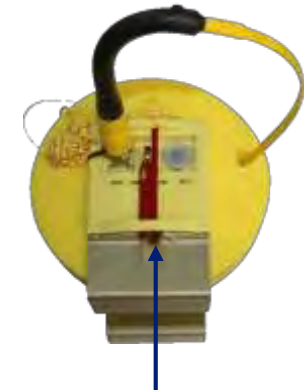


Applications

- KANNAD 406 AS and SURVIVAL
- Compliant with BOEING requirements

Caution

- This mounting bracket is designed to hold the ELT in place (max 1250g (2.755 lb)) when subjected to 9 Gs in any direction as per FAR/JAR 25.561(b)
- No dangle location



Locking Pin

Carry-off bag

Carry-off bag, AS (P/N S1820511-03 or -04)

Main features

- Designed to stow the KANNAD 406 AS-TNC and KANNAD 406 SURVIVAL ELT with its auxiliary antenna and to protect against shock (Drop tested from a height of 2 meters)
- Three handles for easy access in any position
- Overall dimensions:
 - Carry-off bag, AS: 332 x 180 x 180mm, P/N S1820511-03
 - Carry-off bag short: 290 x 180 x 180mm, P/N S1820511-04
- Weight: 550 g
- The carry-off bag is made of fire resistant materials (the fumes, steam and other inert gas are not toxic)



Applications

- To stow the KANNAD 406 AS and SURVIVAL
- Selected by AIRBUS, UNITED AIRLINES, UPS...

Remote Control Panels

Remote Control Panels Common features

- All RCPs enable remote control and remote monitoring of ELTs manufactured by Orolia S.A.S. when ELT switch is in “ARM” position
- Powered by ELT battery
- Remote control with a 3-position remote switch:
 - “ ON ” activates the ELT manually
 - “ ARMED ” is an idle position. Except in the case of an emergency, the switch must remain in this position (on the ground and during flight)
 - “ RESET / TEST ” to stop the ELT transmission after activation or to perform a self test
- Monitoring with a LED (red or amber):
 - 2 Hz pulsating signal during ELT transmission on 121,5 & 243MHz
 - one long flash during ELT transmission on 406MHz (every 50 seconds)
 - one short flash at the beginning of the self-test sequence
 - 3 + N short flashes at the end of the self-test sequence means ELT is faulty (N depends on type of failure)
 - 1 long flash at the end of the self-test sequence means ELT is OK

Note : The toggle switch is locked in positions “ARMED” and “ON”. The “Self-test” position is spring loaded.

Remote Control Panels (RCP)

Kits

- REMOTE CONTROL PANEL KIT, RC100 P/N S1820513-03
- REMOTE CONTROL PANEL KIT, RC150 P/N S1820513-07
- REMOTE CONTROL PANEL KIT, RC102 P/N S1820513-21

LRUs

- REMOTE CONTROL PANEL, KIT RC200 P/N S1820513-18
- REMOTE CONTROL PANEL, KIT RC200-NVG P/N S1820513-19
- REMOTE CONTROL PANEL, RC300 P/N S1820513-09
- REMOTE CONTROL PANEL, RC300-NVG P/N S1820513-10
- REMOTE CONTROL PANEL RC310 P/N S1820513-26
- REMOTE CONTROL PANEL, RC400 P/N S1820513-05
- REMOTE CONTROL PANEL, RC600-NVG (Y) P/N S1820513-12
- REMOTE CONTROL PANEL, RC600-NVG (W) P/N S1820513-13
- REMOTE CONTROL PANEL, RC800 P/N S1820513-15
- REMOTE CONTROL PANEL, RC810 P/N S1820513-23

Accessories

- OUTSIDE BUZZER ASSEMBLY P/N S1820515-06

Remote Control Panel Kits, RC100 / 150 /

Main features

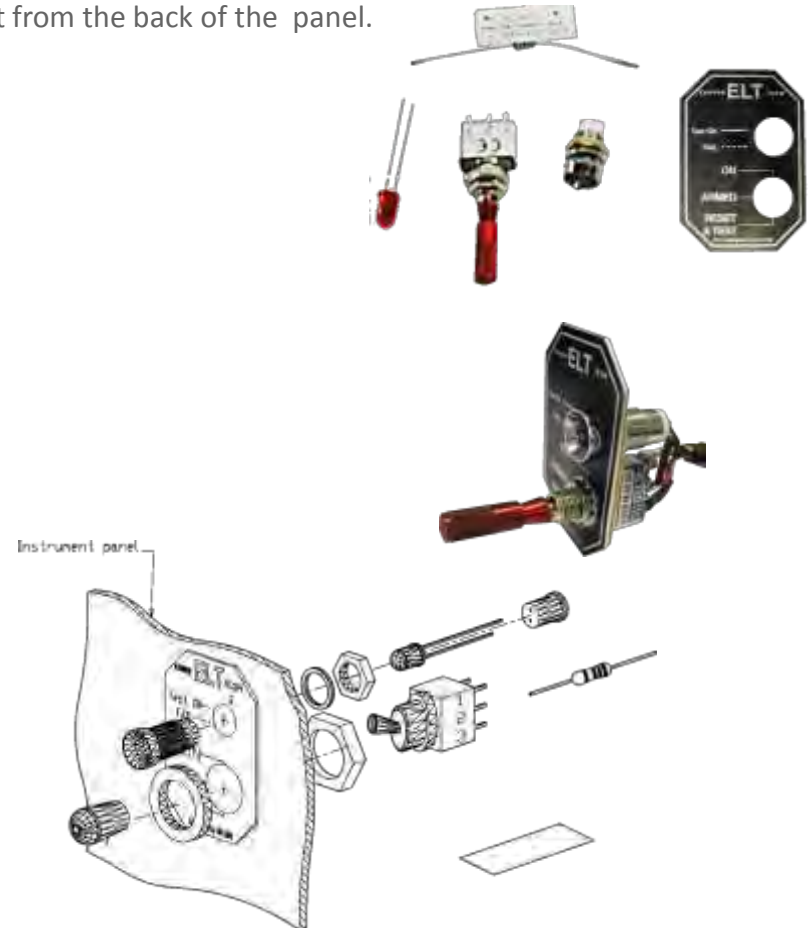
- Kit including toggle switch, LED mounting, LED, buzzer, Resistor
- Can be installed directly on the instrument panel or with other remote controls (CVR, FDR...) on a remote control unit.
- The kit can be mounted in the shop and installed aboard the aircraft from the back of the panel.
- Two versions are available:
 - RC100 (P/N S1820513-03) with switch Diam 6,35mm
 - RC150 (P/N S1820513-07) with switch Diam 12mm

Applications

- Little space available on instrument panel
 - BOMBARDIER DASH8-Q400 (installed with the CVR controls)
 - SUKHOI RRJ100
 - Robinson Helicopters
- Custom Kitting

Caution

- The wires and the connector are not supplied



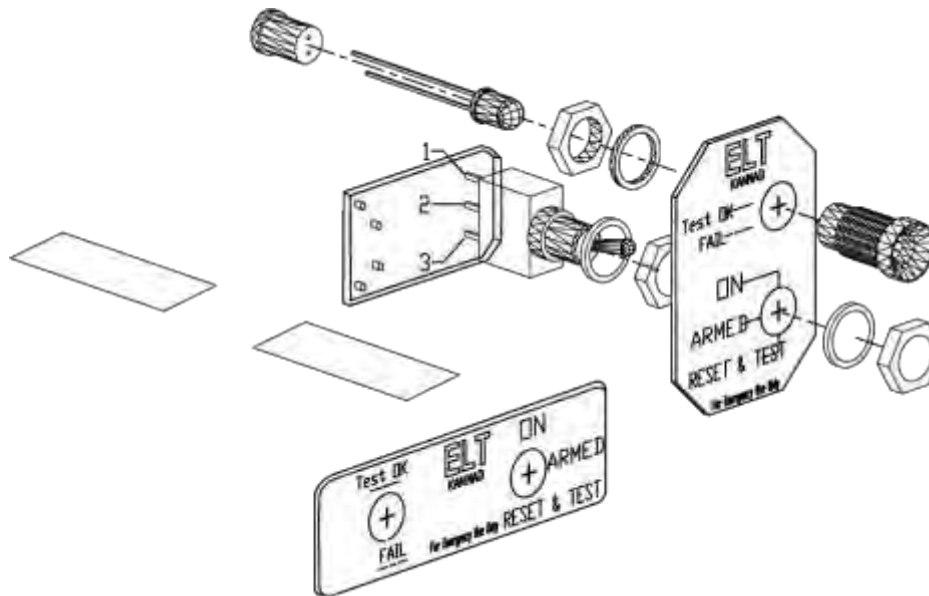
Remote Control Panel Kit, RC102

Main features

- 2-Wire remote control panel
- Kit including toggle switch + PCB, LED mounting, a choice of 2 LEDs (standard LED and NVG LED), a choice of 2 front plates. For 121.5 ELT retrofit, the rectangular front plate may replace a former RCP with same dimensions.
- Can be installed directly on the instrument panel or with other remote controls (CVR, FDR...) on a remote control unit.
- The kit can be mounted in the shop and installed aboard the aircraft from the back of the panel

Caution

- The wires and the connector are not supplied



or



Remote Control Panel, Kit RC200 (P/N S1820513-18)

Main features

- Weight: 50g.
- Dimensions : 33 x 50 x 43mm
- 3-position red switch (ON, ARMED, TEST/RESET)
- D-SUB 9 pin connector with threaded locking device (UNC 4-40)
- Output to drive an external buzzer
- Output to control an external horn or annunciator (up to 1A)
- **the Kit includes mating SUB-D9 connector for easier installation**



Applications

- All aircraft
- Straight replacement for ARTEX RCPs to ensure easy replacement of your old two frequency ELT

Caution

- Switch is not waterproof. Cannot be installed flat

Remote Control Panel, Kit RC200-NVG (P/N S1820513-19)

Main features

- NVG-compatible green A led annunciator
- Weight: 50g
- Dimensions : 33 x 50 x 43mm
- 3-position red switch (ON, ARMED, TEST/RESET)
- D-SUB 9 pin connector with threaded locking device (UNC 4-40)
- Output to drive an external buzzer
- Output to control an external horn or annunciator (up to 1A)
- **the Kit includes mating SUB-D9 connector for easier installation**



Applications

- The RC200-NVG is a variant of the RC200
- This version is specially intended for military aircraft with NVG-compatible cockpit

Caution

- Switch is not waterproof. Cannot be installed flat

Remote Control Panel, RC300 (P/N S1820513-09)

Main features

- Black front panel with white lettering
- Requires 4 or 5 AWG24 wires to connect to the ELT
- Amber LED operates as the ELT LED
- Internal buzzer warns the pilot of an activation
- Output to drive an external buzzer
- Weight: 120g
- Dimensions : 146 x 63.5 x 38.1mm
- DZUS fasteners

Applications

- Designed for civil aircraft or helicopter cockpit on retrofit basis

Caution

- The optional outside buzzer must be ordered separately (P/N S1820515-06)



Remote Control Panel, RC300-NVG (P/N S1820513-10)

Main features

- Black front panel with yellow characters compatible with Night Vision Goggles (NVG)
- Requires 4 or 5 AWG 24 wires to connect to the ELT
- Amber LED operates as the ELT LED
- Internal buzzer warns the pilot of an activation
- Output to drive an external buzzer
- Weight: 120g
- Dimensions: 146 x 63.5 x 38.1mm
- DZUS fasteners

Applications

- The RC300-NVG is a variant of RC300
- This version is specially intended for military aircraft (Super Puma)

Applications

- The optional outside buzzer must be ordered separately (P/N S1820515-06)



Remote Control Panel, RC310 NVG (P/N S1820513-26)

Main features

- Black anodized front panel
- Illuminated markings in backlight area (black surface, white letters, NVIS green B back lighted)
- Requires 4 AWG24 wires to connect to the ELT
- Blue LED NVIS compatible operates as the ELT LED
- Internal buzzer warns the pilot of an activation
- Weight: 96 g.
- Dimensions: 64 x 22 x 50 mm
- Fixation by 2 screws, washers and anchor nuts with self-locking threads



Applications

- The RC310 is designed for civil aircraft, commuters or helicopters with NVIS compatible cockpit

Remote Control Panel, RC400 (P/N S1820513-05)

Main features

- Black front panel with white lettering
- Requires 4 or 5 AWG24 wires to connect to the ELT
- Amber LED operates as the ELT LED
- Internal buzzer warns the pilot of an activation
- Output to drive an external annunciator or horn (up to 1A @ 28V)
- Weight: 235g
- Front plate dimensions: 146 x 38mm
- Depth (behind front panel): 100mm

Applications

- Airliner retrofit
- PILATUS PC12

Caution

- The “outside horn” is not powered by the ELT. It requires 10-30V power supply from the aircraft



Remote Control Panel, RC600-NVG (Y) (P/N S1820513-12)

Main features

- Black front panel with yellow fluorescent markings
- Requires 4 or 5 AWG24 wires to connect to the ELT
- NVG-compatible Amber LED operates as the ELT LED
- Internal buzzer warns the pilot of an activation
- Two Outputs to drive an external annunciator and/or horn (up to 1A @ 28V)
- Weight: 235g
- Front plate dimensions: 146 x 38mm
- Depth (behind front panel): 62mm



Applications

- For military aircraft
- Designed for EUROCOPTER TIGER

Caution

- The “outside horn” and “outside lamp” signals are not powered by the ELT, but require connection to aircraft power

Remote Control Panel, RC600-NVG (W) (P/N S1820513-13)

Main features

- Black front panel with white lettering
- Requires 4 or 5 AWG24 wires to connect to the ELT
- NVG compatible Amber LED operates as the ELT LED
- Internal buzzer warns the pilot of an activation
- Two Outputs to drive an external annunciator and/or horn (up to 1A @ 28V)
- Weight: 235g
- Front plate dimensions: 146 x 38mm
- Depth (behind front panel): 62mm

Applications

- For military aircraft
- Designed for EUROCOPTER NH90

Caution

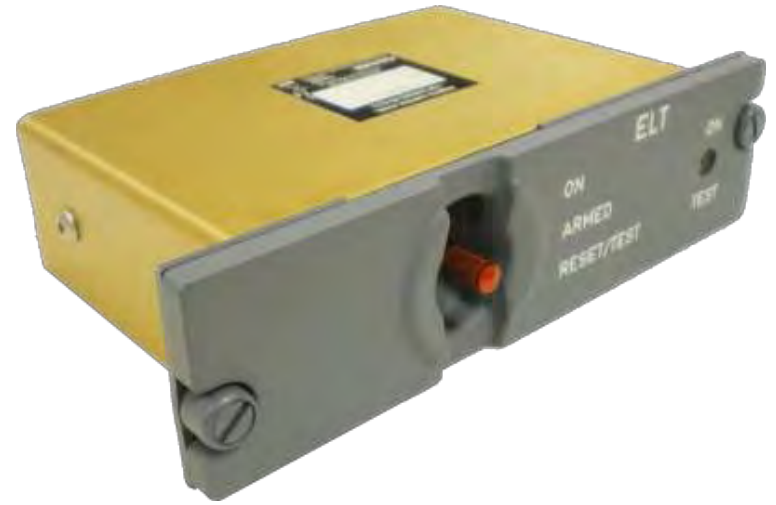
- The “outside horn” and “outside lamp” signals are not powered by the ELT. They require connection to aircraft power.



Remote Control Panel, RC800 (P/N S1820513-15)

Main features

- Grey-Blue front panel with white markings and backlight
- Amber LED operates as the ELT LED
- Chromaticity / Brightness: compliant with ABD0023
- Recessed switch lever
- Internal buzzer warns the pilot of an activation
- Output to drive an external annunciator or horn (up to 1A @ 28V)
- Requires 4 or 5 AWG24 wires to connect to the ELT
- Weight: 225g
- Front plate dimensions: 146 x 38mm
- Depth (behind front panel): 89mm



Applications

- Airlines
- Compatible with following AIRBUS aircraft:
 - Single aisle: A318, A319, A320, A321, A320neo family
 - Long range: A330, A340
- Interchangeable with RC500-320 RCP

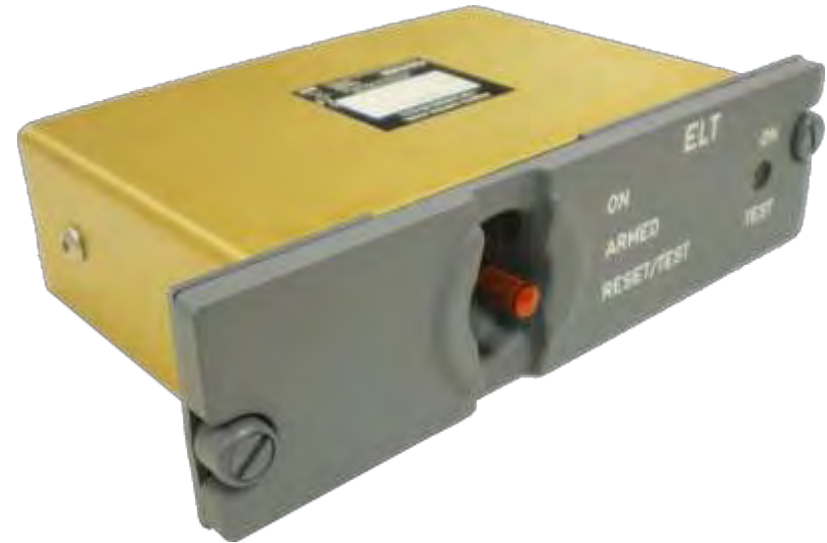
Caution

- The “outside horn” is not powered by the ELT. It requires 10V to 30V power supply from the aircraft

Remote Control Panel, RC810 (P/N S1820513-23)

Main features

- Grey-Blue front panel with white markings and backlight
- Amber LED operates as the ELT LED
- Chromaticity / Brightness: compliant with ABD0023
- Recessed switch lever
- Internal buzzer warns the pilot of an activation
- Output to drive an external annunciator or horn (up to 1A @ 28V)
- Requires 4 or 5 AWG24 wires to connect to the ELT
- Weight: 225g
- Front plate dimensions: 146 x 38mm
- Depth (behind front panel): 89mm



Applications

- Airlines
- Specially designed for AIRBUS A380
- Compatible with following AIRBUS aircraft:
 - Single aisle: : A318, A319, A320, A321, A320neo family
 - Long range: A380, A350, A330, A340
- Interchangeable with RC810 RCP

Caution

- ➔ The “outside horn” is not powered by the ELT. It requires 10V to 30V power supply from the aircraft

Buzzer

Outside Buzzer Assembly (P/N S1820515-06)

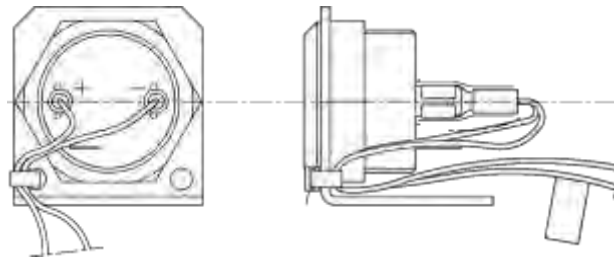
Main features

- Gives an audio indication of emergency location transmitter (ELT) activation through a buzzer that has an oscillator which generates a pulse tone.
- A mounting tray is supplied to install the buzzer on the aircraft. This mounting tray is attached to the aircraft structure either with 3 x M3 screws, washers and nuts or with 3 rivets and washers
- The power is supplied by the ELT battery (no additional power required)
- Weight: 40 g (0.088 lbs)
- Frequency: 3500 Hz \pm 15%
- Pulse rate: approx: 1 Hz
- Sound pressure: 86 dBa at 1 meter (3.28 ft.)



Applications

- If the ELT buzzer is not audible from outside of the aircraft
- The precise location must be determined so that the buzzer can be heard with the aircraft engine(s) off
- Compatible with all ELTs and Remote Control Panels manufactured by Orolia S.A.S. except RC310-NVG



Antennas

Antennas (ANT)

Auxiliary

- AUXILIARY ANTENNA, ANT100 (BNC) P/N 0124206
- AUXILIARY ANTENNA, ANT110 (TNC) P/N 0124194

Whip

Note: suggested for fitting to fixed wing application

- WHIP ANTENNA, RAMI AV100
- WHIP ANTENNA, ANT200 P/N 0145621
- WHIP ANTENNA, RAMI AV200 P/N 0146150

Rod

- ROD ANTENNA, RAMI AV300 P/N 0146151

Blade

- BLADE ANTENNA, ANT500 P/N 0124222
- BLADE ANTENNA, ANT560 P/N 0145787
- BLADE ANTENNA, ANT650 P/N 0124251

Auxiliary Antenna, ANT100 (BNC) (P/N 0124206)

Main features

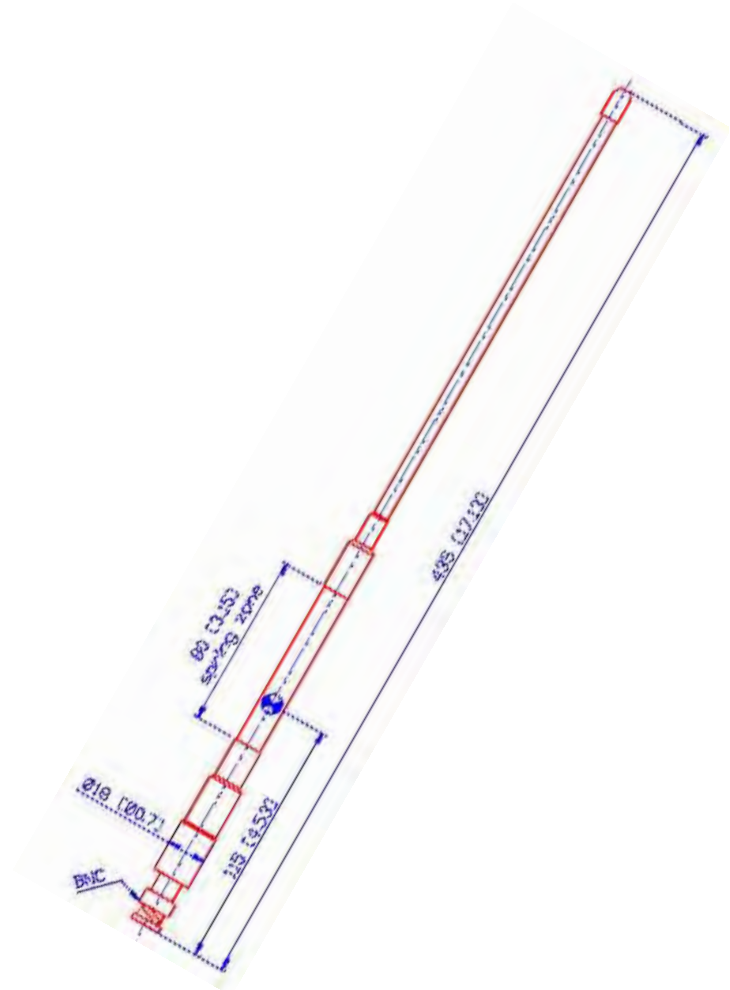
- Developed by PROCOM
- 1/2 Wave UHF
- 1/4 Wave VHF
- BNC Connector
- Height: 435mm

Applications

- KANNAD 406 AP / AP-INTEGRA ELTs

Caution

- Old reference: HAF00118
- An ELT of AF type associated with an ANT100 cannot be used as an ELT of AP type even if it may look identical



Auxiliary Antenna, ANT110 (TNC) (P/N 0124194)

Main features

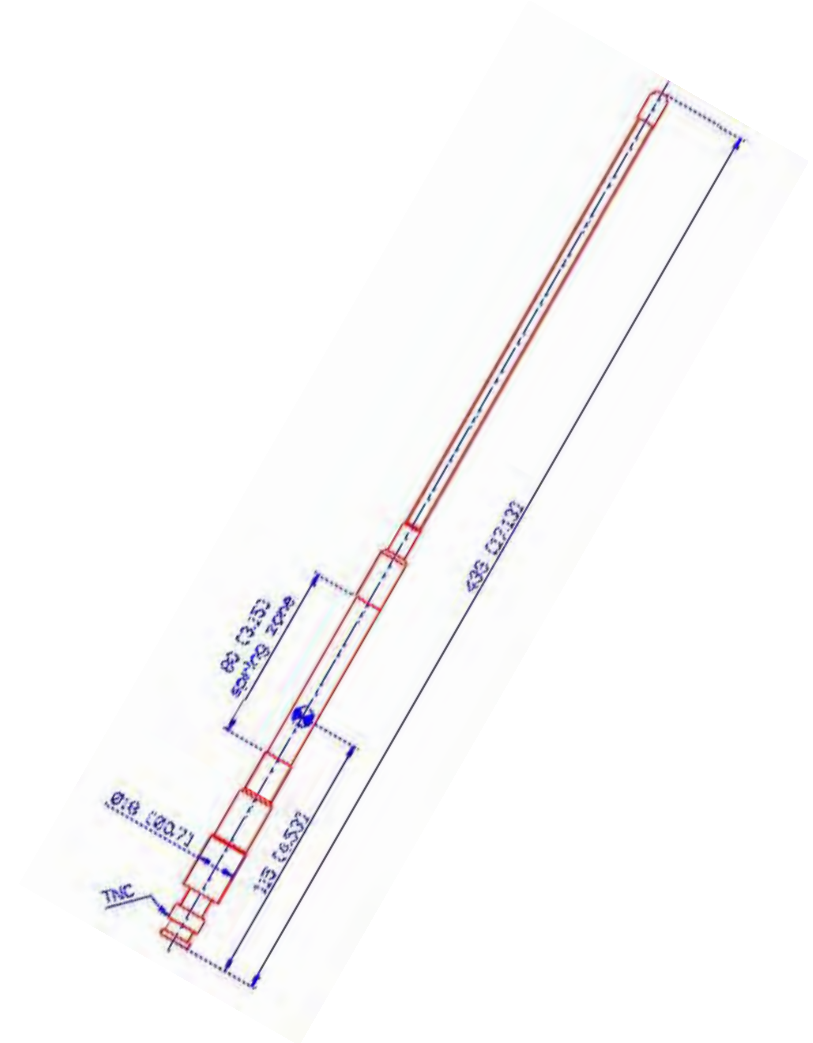
- Developed by PROCOM
- 1/2 Wave UHF
- 1/4 Wave VHF
- TNC connector
- Height 435 mm

Applications

- KANNAD 406 AS (TNC) and SURVIVAL

Caution

- Old reference : HAF00102



Whip Antenna, ANT200 (Orolia P/N 0145621, Manufacturer P/N ELT 10-773-3)

Note: suggested for fitting to fixed wing application

Main features

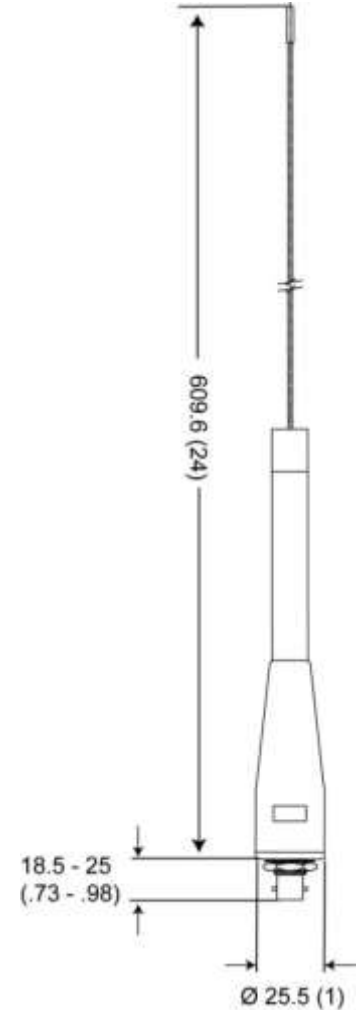
- Developed by Dayton Granger
- Whip dual frequency antenna (121.5 / 406MHz)
- Can easily be installed through a single hole (\varnothing 13mm, 0.515 in.) in the aircraft skin
- Female BNC connector
- Impedance 50 ohms
- VSWR:
 - 2.0:1 or better@121.5 MHz
 - 1.5:1 or better@406 MHz
- Weight: 170g
- Height: 609.6mm

Applications

- Aircraft up to 250kts
- TSO available

Caution

- Manufacturer P/N: ELT 10-773-3
- Delivered with FAA FORM 8130



Whip Antenna, RAMI AV100 P/N 0147444

Note: suggested for fitting to fixed wing application

Main features

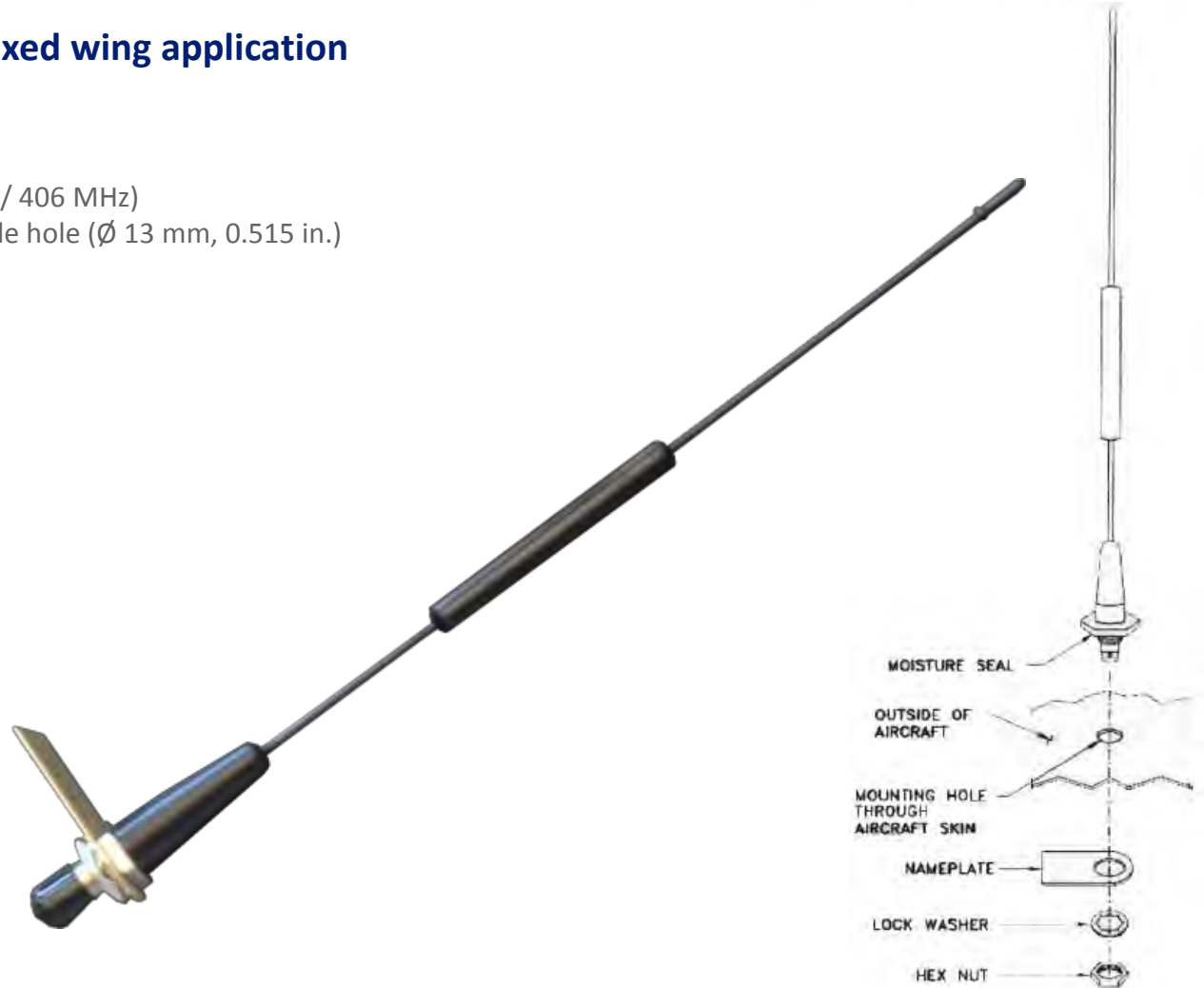
- Developed by RAMI
- Whip dual frequency antenna (121.5 / 406 MHz)
- Can easily be installed through a single hole (\varnothing 13 mm, 0.515 in.) in the aircraft skin
- Female BNC connector
- Impedance 50 ohms
- VSWR:
 - 2.0:1 or better@121.5 MHz
 - 1.5:1 or better@406 MHz
- Weight: 85g
- Height: 350 mm

Applications

- Aircraft up to 250kts
- TSO C126a

Caution

- Delivered with FAA FORM 8130



Whip Antenna, RAMI AV200 P/N 0146150

Note: suggested for fitting to fixed wing application

Main features

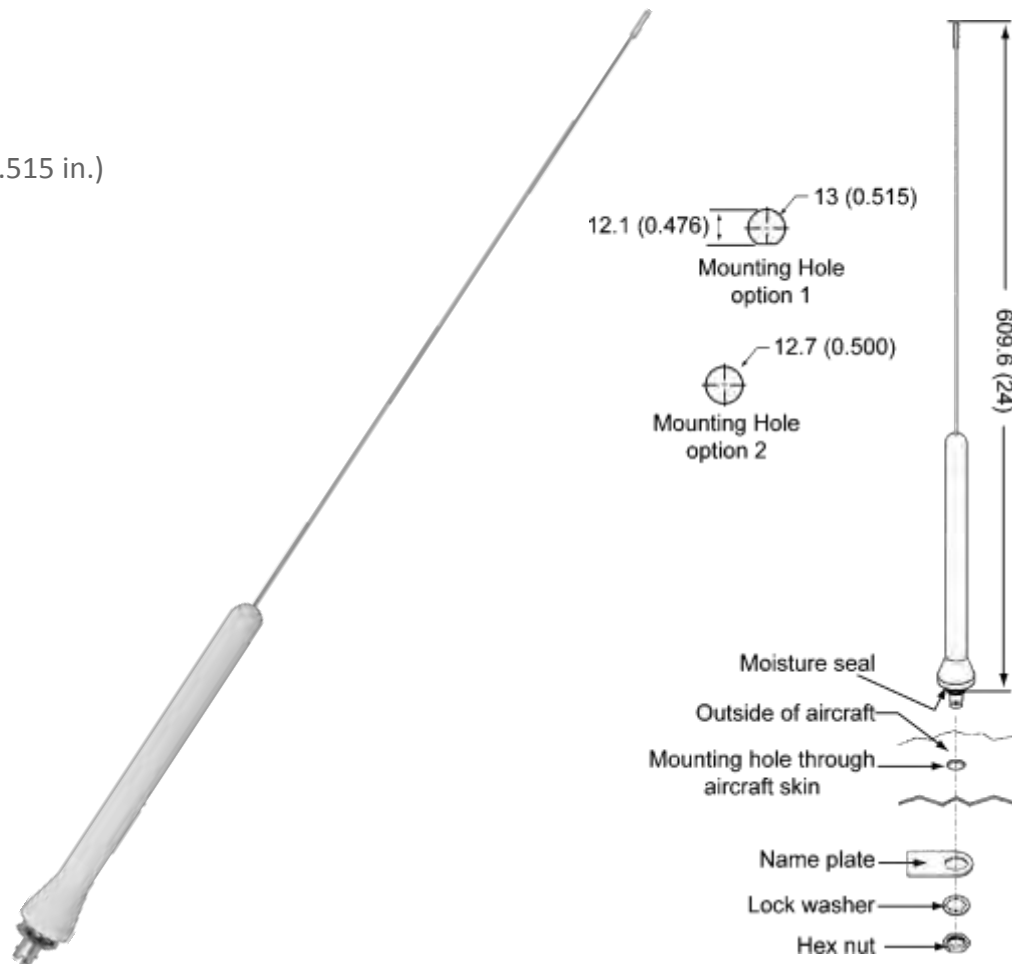
- Developed by RAMI
- Whip dual frequency antenna (121.5 / 406 MHz)
- Can easily be installed through a single hole (\varnothing 13 mm, 0.515 in.) in the aircraft skin
- Female BNC connector
- Impedance 50 ohms
- VSWR:
 - 2.0:1 or better@121.5 MHz
 - 1.5:1 or better@406 MHz
- Weight: 85g
- Height: 609.6mm

Applications

- Aircraft up to 250kts
- TSO available

Caution

- Delivered with FAA FORM 8130



Rod Antenna, RAMI AV300 P/N 0146151

Note: suggested for fitting to fixed wing application

Main features

- Developed by RAMI
- Small whip for radiation on the COSPAS-SARSAT 3 frequencies (121.5 / 243 / 406MHz)
- Glass fibre
- Metallic base plate with 3 fixing holes
- BNC connector
- VSWR:
 - 2.0:1 or better@121.5 MHz
 - 2.0:1 or better@243 MHz
 - 1.5:1 or better@406 MHz
- Max. Power 10W CW
- Vertical polarisation
- Efficiency > 85%
- Weight: 255g
- Height: 355mm

Applications

- Aircraft up to 350kts



Blade Antenna, ANT500 (Orolia P/N 0124222, Manufacturer P/N S65-8282-406)

Main features

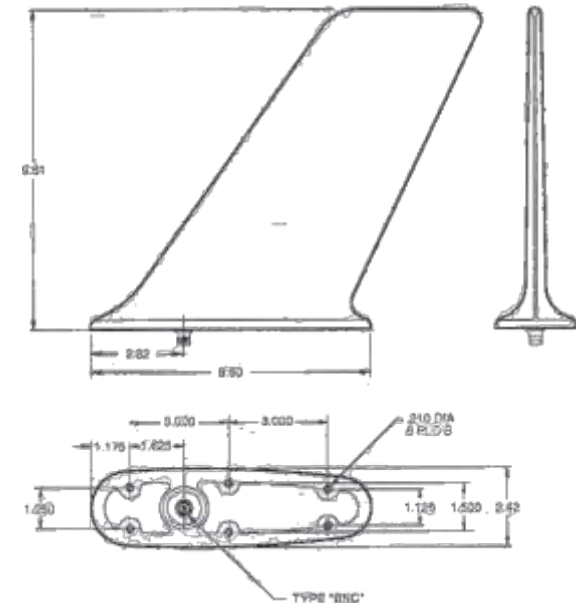
- Developed by SENSOR SYSTEMS
- Fully compatible with the range of all ELTs manufactured by Orolia S.A.S (except 406 AF-COMPACT)
- T6 Aluminium + glass fibre
- Skydrol resistant enamel Finish
- BNC connector
- VSWR <2.3
- Max. Power 5W CW
- Vertical polarisation
- Weight: 730g
- Height: 249mm

Applications

- “high speed” aircraft (jets, airliners)
- TSO available

Caution

- Manufacturer P/N : S65-8282-406
- Delivered with FAA FORM 8130



Blade Antenna, ANT560 (Orolia P/N 0145787, Manufacturer P/N ELT 10-696-1)

Main features

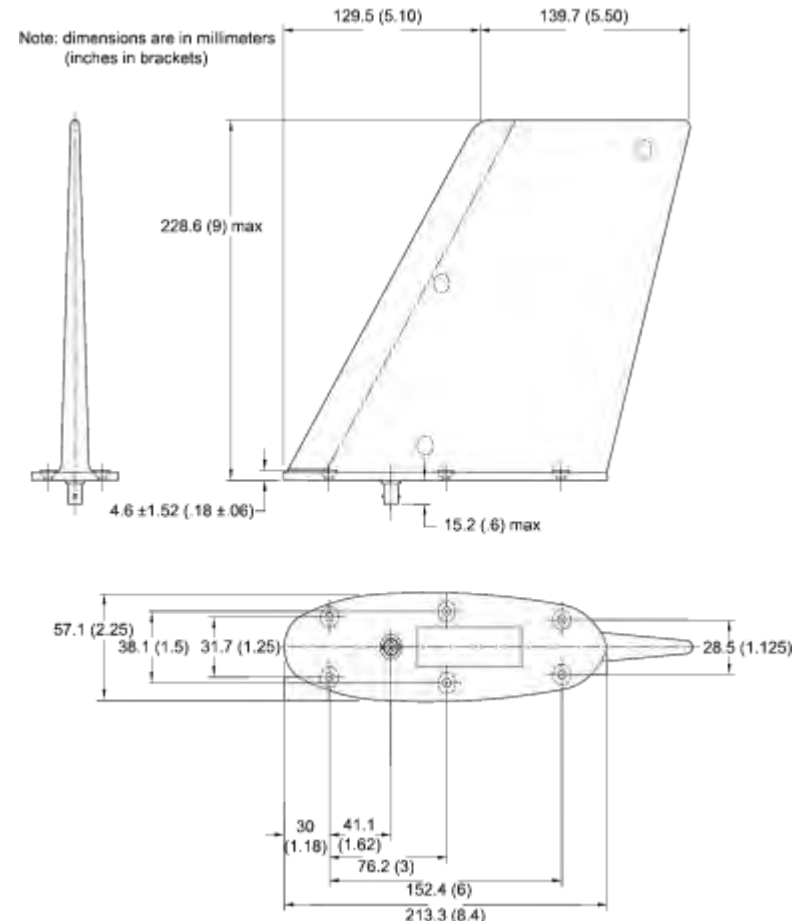
- Developed by Dayton Granger
- Fully compatible with the range of all ELTs manufactured by Orolia S.A.S (except 406 AF-COMPACT)
- BNC connector
- VSWR
- 2.0:1 or better @121.5 /243MHz
- 1.5:1 or better @406.0 MHz
- Vertical polarisation
- Impedance (RF): 50 Ohms
- Finish: MIL-C-85285 , color white #17925 per FED-STD-595
- Weight: 544g
- Height: 228.6mm

Applications

- “high speed” aircraft (jets, airliners)
- TSO available

Caution

- Manufacturer P/N: ELT 10-696-1
- Delivered with FAA FORM 8130



Blade Antenna, ANT650 (Orolia P/N 0124251, Manufacturer P/N 2624-82)

Main features

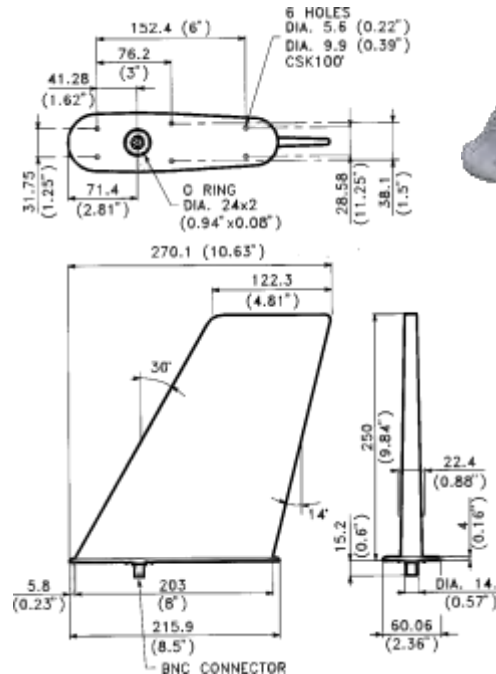
- Developed by RAYAN
- Fully compatible with the range of all ELTs manufactured by Orolia S.A.S (except 406 AF-COMPACT)
- High performance low profile outside antenna designed for Corporate jets and airliners
- Aviation aluminium alloy one piece base plate casting
- Glass fibre laminated radome
- Leading edge coated with erosion treatment
- Filled with close-cell polyurethane foam
- BNC connector
- VSWR <1.5
- Max. Power 100W CW
- Weight: 540g
- Height: 250mm

Applications

- "high speed" aircraft
- JTSO and TSO
- Installed as standard feature on AIRBUS aircraft

Caution

- Manufacturer P/N : 2624-82
- Delivered with EASA FORM 1



Connectors and Dongles

Connectors and “Dongles” (Programming Dongles)

Connector

- DIN12 CONNECTOR P/N S1820514-03

Dongles

- PROGRAMMING DONGLE P/N S1820514-01
- PROGRAMMING DONGLE, A320 P/N S1820514-04
- PROGRAMMING DONGLE, A330&340 P/N S1820514-05
- PROGRAMMING DONGLE ASSY P/N S1820514-06
- PROGRAMMING DONGLE INTEGRA / LR P/N S1820514-07
- PROGRAMMING DONGLE INTEGRA / SA P/N S1820514-11

For maintenance (shop)

- MAINTENANCE DONGLE P/N S1820514-02

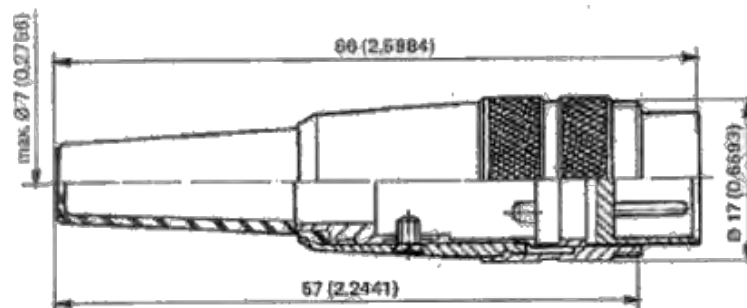
DIN12 Connector (P/N S1820514-03)

Main features

- Type DIN (Specification DIN45321)
- 12 contacts
- For ELT-RCP connection (ELT side)

Applications

- Compatible with all ELTs manufactured by Orolia S.A.S.



Programming Dongle (P/N S1820514-01)

Main features

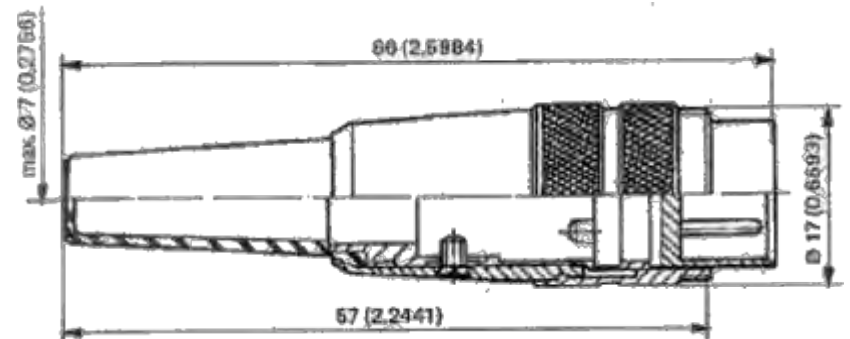
- DIN 12 connector with serial memory module (SMM) for programming operations
- Contains the aircraft identification data automatically downloaded to the ELT when switched to ARM.
- Avoids the use of specific programming equipment such as PR600 and Computer in case of ELT replacement
- For ELT-RCP connection (ELT side)
- Weight: 20g
- Length: 66mm

Applications

- Compatible with all ELTs manufactured by Orolia S.A.S

Caution

- Programming dongle is required for NAV-ELT interface installation (CS 144)



Programming Dongle, A320 (P/N S1820514-04)

Main features

- DIN 12 connector with serial memory module (SMM) for programming operations
- Pre-wired variant of the Programming Dongle
- Contains the aircraft identification data (automatically downloaded to the ELT when connected)
- Avoids the use of specific programming equipment such as PR600 + Computer in case of ELT replacement
- Also used as a connector for the remote control panel (RCP)
- Weight 46g
- Length 220mm

Applications

- Compatible with all 3-Frequency KANNAD 406 ELTs except KANNAD 406 AS and KANNAD 406 SURVIVAL (not compatible with INTEGRA ELTs)
- Compatible with the standard wiring of AIRBUS A320 aircraft



Programming Dongle, A330 & A340 (P/N S1820514-05)

Main features

- DIN 12 connector with serial memory module (SMM) for programming operations
- Pre-wired variant of the Programming dongle
- Contains the aircraft identification data (automatically downloaded to the ELT when connected)
- Avoids the use of specific programming equipment such as PR600 + Computer in case of ELT replacement
- Also used as a connector for the remote control panel (RCP)
- Weight: 42g
- Length: 900mm

Applications

- Compatible with all 3-Frequency KANNAD 406 ELTs except KANNAD 406 AS and KANNAD 406 SURVIVAL (not compatible with INTEGRA ELTs)
- Compatible with the standard wiring of AIRBUS A330 & A340 aircraft



DONGLE INTEGRA L/R (P/N S1820514-07)

Main features

- DIN 12 connector with serial memory module (SMM) for programming operations
- Pre-wired variant of the Programming dongle
- Contains the aircraft identification data (automatically downloaded to the ELT when connected)
- Avoids the use of specific programming equipment such as PR600 + Computer in case of ELT replacement
- Also used as a connector for the remote control panel (RCP)
- Weight: 42g
- Length: 900mm

Applications

- Compatible with all INTEGRA ELTs
- Compatible with the standard wiring of AIRBUS A330 & A340 aircraft



DONGLE INTEGRA S/A (P/N S1820514-11)

Main features

- DIN 12 connector with serial memory module (SMM) for programming operations
- Variant of the Programming Dongle A320
- Contains the aircraft identification data (automatically downloaded to the ELT when connected)
- Avoids the use of specific programming equipment such as PR600 + Computer in case of ELT replacement
- Also used as a connector for the remote control panel (RCP)
- Weight 55g,
- Length 250mm

Applications

- Compatible with all INTEGRA ELTs
- Compatible with the standard wiring of AIRBUS A318 / A319 / A320 / A321, A320neo Single Aisle aircraft



Programming Dongle, ASSY (P/N S1820514-06)

Main features

- DIN 12 connector with serial memory module (SMM) for programming operations
- Pre-wired Programming dongle
- Variant of Programming Dongle A320 fitted with a female DIN12 connector on RCP side instead of 19 Pts Jaeger connector
- Contains the aircraft identification data (automatically downloaded to the ELT when connected)
- Avoids the use of specific programming equipment such as PR600 + Computer in case of ELT replacement
- Also used as a connector for the remote control panel (RCP)
- Weight: 45g
- Length: 220mm

Applications

- Compatible with all ELTs manufactured by Orolia S.A.S except KANNAD 406 AS and KANNAD 406 SURVIVAL



Maintenance Kit

Maintenance Kits

Battery Replacement Kits

- KIT BAT200 (P/N S1840510-01)
- KIT BAT300 (P/N S1820516-99)
- KIT BAT350 (P/N S1822505-01)
- KIT BAT500 (P/N S1819516-99)

Battery replacement is mandatory

- after more than 1 hour of real transmission (cumulated duration);
- before or on the battery expiration date;
- after use in an emergency
- after an inadvertent activation of unknown duration

Annual Inspection Kit:

- KIT Annual Inspection (P/N S1840510-02)

USA: FAR 91.207 paragraph (d) requires each emergency locator transmitter must be inspected within 12 calendar months after the last inspection,

CANADA: CAR Part VI - Standard 625 Appendix C – 12 (a) requires the ELT shall be inspected at intervals not exceeding 12 months, in accordance with Standard 571 of the CARs.

KIT BAT200 (P/N S1840510-01)

KIT BAT200 shall be used to replace batteries of

- ALL 406 AF-COMPACT ELTs P/N S1840501-01 and P/N S1840501-02
- All INTEGRA ELTs P/N S185X501-XX



KIT BAT300 (P/N S1820516-99)

KIT BAT300 shall be used to replace batteries of

- ALL 3-Frequency KANNAD ELTs except:
 - KANNAD 406 ATP P/N S1819501-02
 - KANNAD 406 AF-H (HT) P/N S1822504-01

O-RING, P/N 0124115



WEDGE, FOAM, SMALL, P/N 0132014



devices used to make a test mock-up
for current measurement of battery



WEDGE, FOAM, LARGE, P/N 0132015



LABEL, IDENTIFICATION, P/N 0122993



CAPSULE, DESICCANT, P/N 0123831



BAT300, P/N S1820506-01
Always supplied with Battery Kit
Not procurable out of Battery Kit

KIT BAT350 (P/N S1822505-01)

KIT BAT350 shall be used to replace batteries of

- KANNAD 406 AF-H (HT) P/N S1822504-01

O-RING, P/N 0124115



WEDGE, FOAM, SMALL, P/N 0132014



devices used to make a test mock-up
for current measurement of battery



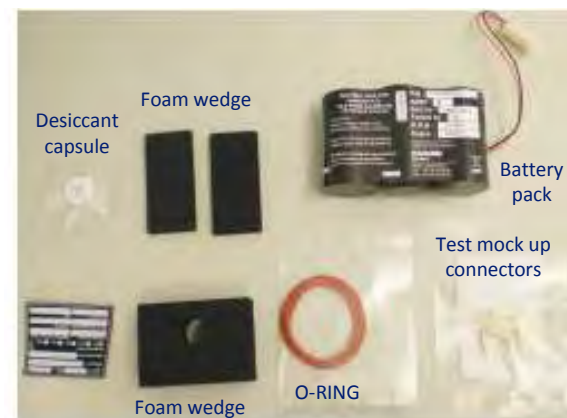
WEDGE, FOAM, LARGE, P/N 0132015



LABEL, IDENTIFICATION, P/N 0122993



CAPSULE, DESICCANT, P/N 0123831

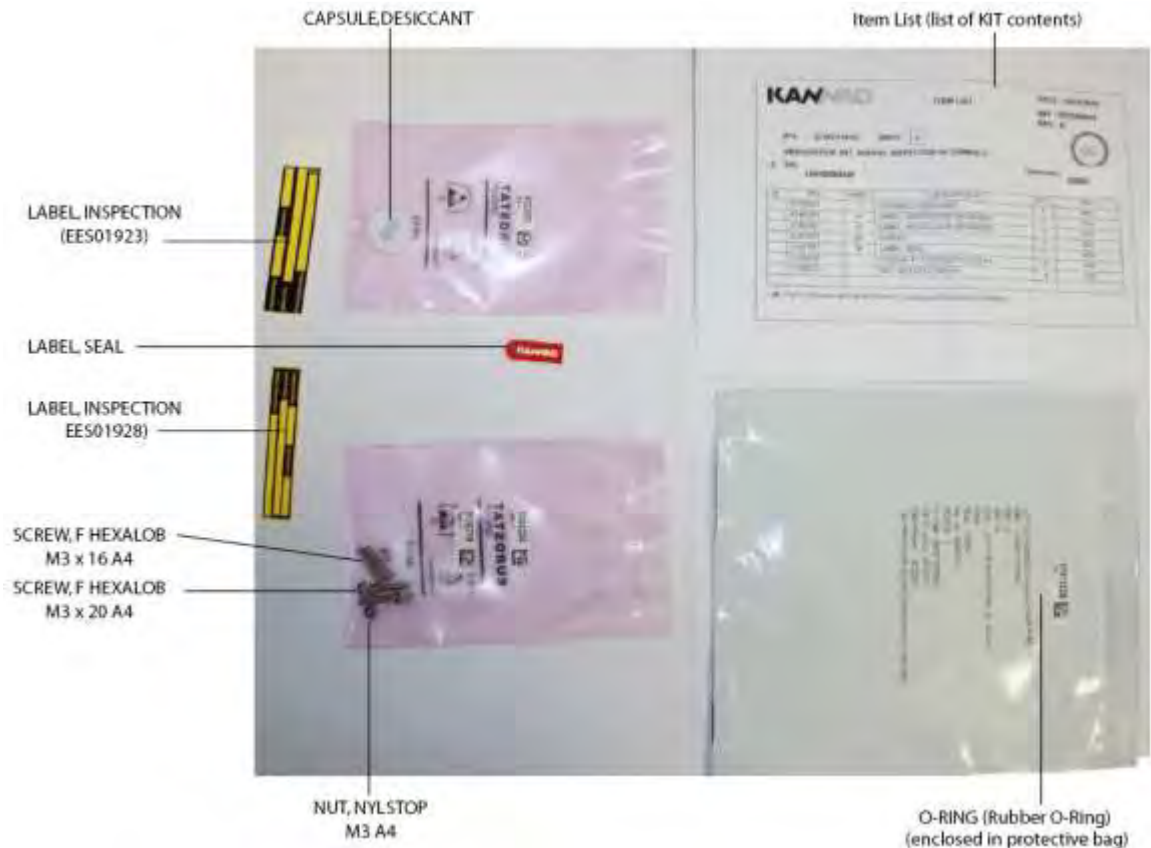


BAT350, P/N 0144033
Always supplied with Battery Kit
Not procurable out of Battery Kit

KIT Annual Inspection (P/N S1840510-02)

KIT Annual Inspection shall be used to carried out the annual inspections required by FAR 91.207 paragraph (d) and CAR Part VI - Standard 625 Appendix C – 12 (a) for:

- ALL 406 AF-COMPACT ELTs P/N S1840501-01 and P/N S1840501-02
- All INTEGRA ELTs P/N S185X501-XX



Ground Support Equipment (GSE)

Programming Equipment (Special GSE):

- PR600 (P/N 1201570)

Beacon Testers:

- BT100AVTriple (P/N 0140958)

Dongle (Special GSE):

- Maintenance Dongle (P/N S1820514-02)

Programming Kit, PR600 (P/N 1201570)

Main features

- Programming tool and cables
- Works with any PC computer with USB Ports
- WINDOWS™ 2000 / XP compatible software
- Compatible with the 4 protocols defined by ICAO:
 - Tail Number
 - Aircraft Operator Designator
 - Serial Number
 - 24 bit Address ICAO

Applications

- Compatible with all ELTs manufactured by Orolia S.A.S.
- Compatible with all Programming Dongles manufactured by Orolia S.A.S.
- Replaces the former PR550 Programming equipment
- P/N 1201570 : PR600 programming kit with Windows software includes:
 1. PR600 Programming interface module
 2. USB cable
 3. Instructions for Programming
 4. Suit case storage and transportation

Caution

- Only trained personnel should use the programming equipment



Programming, Test and Maintenance

Programming the 406 MHz ELT with the PR600

- **Hardware**

- ➔ USB port to program ELT and DONGLE

- **Software**

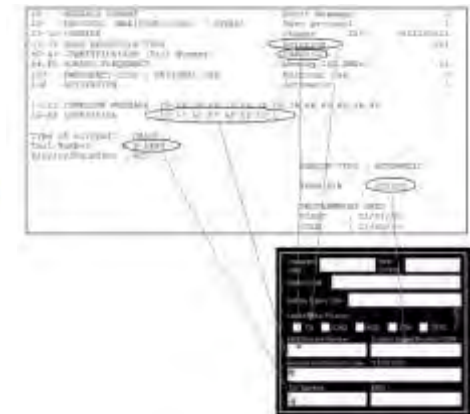
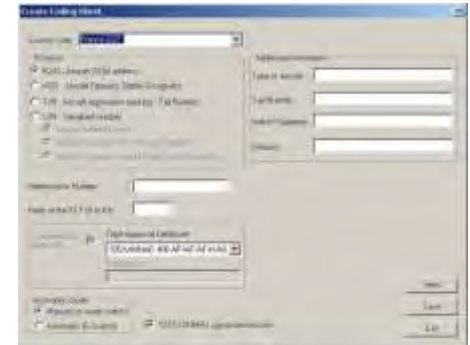
- ➔ Kannad e-Prog

- **Power supply**

- ➔ Self-powered by the USB port.

- **Compatibility list**

- ➔ All Kannad ELTs



***Worldwide Programming service through
our Distribution and Service Network***

Test Equipment, BT100AVTriple (P/N 0140956)

- Compatible with all COSPAS-SARSAT ELTs
- To decode the signal transmitted by the ELT (real transmission)
- Used for ELT testing (in the shop) and for installation validation
- Manufactured by WS Technology.



Maintenance Dongle, (P/N S1820514-02)

Main features

- DIN 12 connector with SMM
- “REMOVE BEFORE FLIGHT” Red streamer
- Contains a specific code to “deprogram” the ELT it is connected to. ELT self-test result will be 3+4 flashes and a transmission will not alert Search and Rescue (special code recognized by COSPAS-SARSAT as “ELT not on board”)

Applications

- Used for ELT removal and maintenance operation

Caution

- ELT should be unprogrammed before installation on board an aircraft equipped with a programming dongle. If not, deprogram with maintenance dongle

