

**INTEGRA ELTs****COMPATIBILITY BETWEEN INTEGRA ELTs AND ALL KANNAD ELTs****1. REASON**

Upgrade of KANNAD 406 ELTs with ELTs of INTEGRA Family

The purpose of this Service Letter is to define the ascendant compatibility between ELTs of INTEGRA Family and all other KANNAD 406 ELTs and the eventual modifications to be done to ensure replacement of former KANNAD 406 Family with ELTs of INTEGRA Family.

**2. LIST OF ACRONYMS**

AF:	Automatic Fixed
AF-H:	Automatic Fixed for Helicopter only
AP:	Automatic Portable
AP-H	Automatic Portable for Helicopter only
(ER):	Extended Range (Temperature -40°C to +55°C)
MB:	Mounting Bracket
RCP:	Remote Control Panel

**3. APPLICABILITY**

This Service Letter is applicable to the following ELTs:

**A. INTEGRA Family**

P/N	DESIGNATION	Cospas-Sarsat Class of temperature
S1850501-01	ELT AP INTEGRA (ER)	(-40°C to +55°C)
S1851501-01	ELT AF INTEGRA (ER)	(-40°C to +55°C)
S1852501-01	ELT AF-H INTEGRA (ER)	(-40°C to +55°C)
S1854501-01	ELT AP-H INTEGRA (ER)	(-40°C to +55°C)
S1850501-02	ELT AP INTEGRA	(-20°C to +55°C)
S1851501-02	ELT AF INTEGRA	(-20°C to +55°C)
S1852501-02	ELT AF-H INTEGRA	(-20°C to +55°C)
S1854501-02	ELT AP-H INTEGRA	(-20°C to +55°C)

B. KANNAD 406 Family

**(1) KANNAD 406 AF COMPACT**

S1840501-01 KANNAD 406 AF-COMPACT (-20°C to +55°C)

**(2) S182X Family**

S1820502-02 KANNAD 406 AP (-20°C to +55°C)

S1820502-04 KANNAD 406 AP-H (-20°C to +55°C)

S1821502-02 KANNAD 406 AF (-20°C to +55°C)

S1822502-02 KANNAD 406 AF-H (-20°C to +55°C)

**4. COMPATIBILITY**

Note: Most common installations.

A. S1850501-01 ELT AP INTEGRA (ER)

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1840501-01 AF-COMPACT	X			Internal 406 antenna Internal GPS Becomes AP version, Upgraded to -40°C
S1820502-02 406 AP		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS Upgraded to -40°C
S1821502-02 406 AF		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS Becomes AP version Upgraded to -40°C

B. S1851501-01 ELT AF INTEGRA (ER)

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1840501-01 AF-COMPACT	X			Internal 406 antenna Internal GPS Upgraded to -40°C
S1821502-02 406 AF		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS Upgraded to -40°C

C. S1852501-01 ELT AF-H INTEGRA (ER)

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1822502-02 406 AF-H		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS Upgraded to -40°C

D. S1854501-01 ELT AP-H INTEGRA (ER)

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1820502-04 406 AP-H		X	Universal MB RCP wiring	Internal antenna Internal GPS Upgraded to -40°C

E. S1850501-02 ELT AP INTEGRA

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1840501-01 AF-COMPACT	X			Internal 406 antenna Internal GPS Becomes AP version,
S1820502-02 406 AP		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS
S1821502-02 406 AF		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS Becomes AP version

F. S1851501-02 ELT AF INTEGRA

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1840501-01 AF-COMPACT	X			Internal 406 antenna Internal GPS
S1821502-02 406 AF		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS

G. S1852501-02 ELT AF-H INTEGRA

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1822502-02 406 AF-H		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS

H. S1854501-02 ELT AP-H INTEGRA

This ELT can replace the following KANNAD 406 ELTs:

ELT	Compatible	Compatible with Provisions	Modifications to be done	Additional function
S1820502-04 406 AP-H		X	Universal MB RCP wiring	Internal 406 antenna Internal GPS

5. MOUNTING BRACKETS

ELT	Compatible	Compatible with Provisions	Modification to be done
S1840501-01 AF-COMPACT	X		
S1820502-02 406 AP		X	Replace former Mounting Bracket with Universal Mounting Bracket <sup>(see note)</sup>
S1821502-02 406 AF		X	Replace former Mounting Bracket with Universal Mounting Bracket <sup>(see note)</sup>
S1822502-02 406 AF-H		X	Replace former Mounting Bracket with Universal Mounting Bracket <sup>(see note)</sup>
S1820502-04 406 AP-H		X	Replace former Mounting Bracket with Universal Mounting Bracket <sup>(see note)</sup>

Note: The fixing holes of the Universal Mounting Bracket (P/N S1840502-02) are compatible with those of the former ELT's mounting bracket. No additional drilling is required to install this mounting Bracket.



Example of INTEGRA ELT installed on a Universal Mounting Bracket

## RCP Wiring

ELT	Compatible	Compatible with Provisions	Modification to be done
S1840501-01 AF-COMPACT	X		
S1820502-02 406 AP		X	Disconnect wire connected to Pin K of ELT
S1821502-02 406 AF		X	Disconnect wire connected to Pin K of ELT
S1822502-02 406 AF-H		X	Disconnect wire connected to Pin K of ELT
S1820502-04 406 AP-H		X	Disconnect wire connected to Pin K of ELT

### A. COMPACT Family

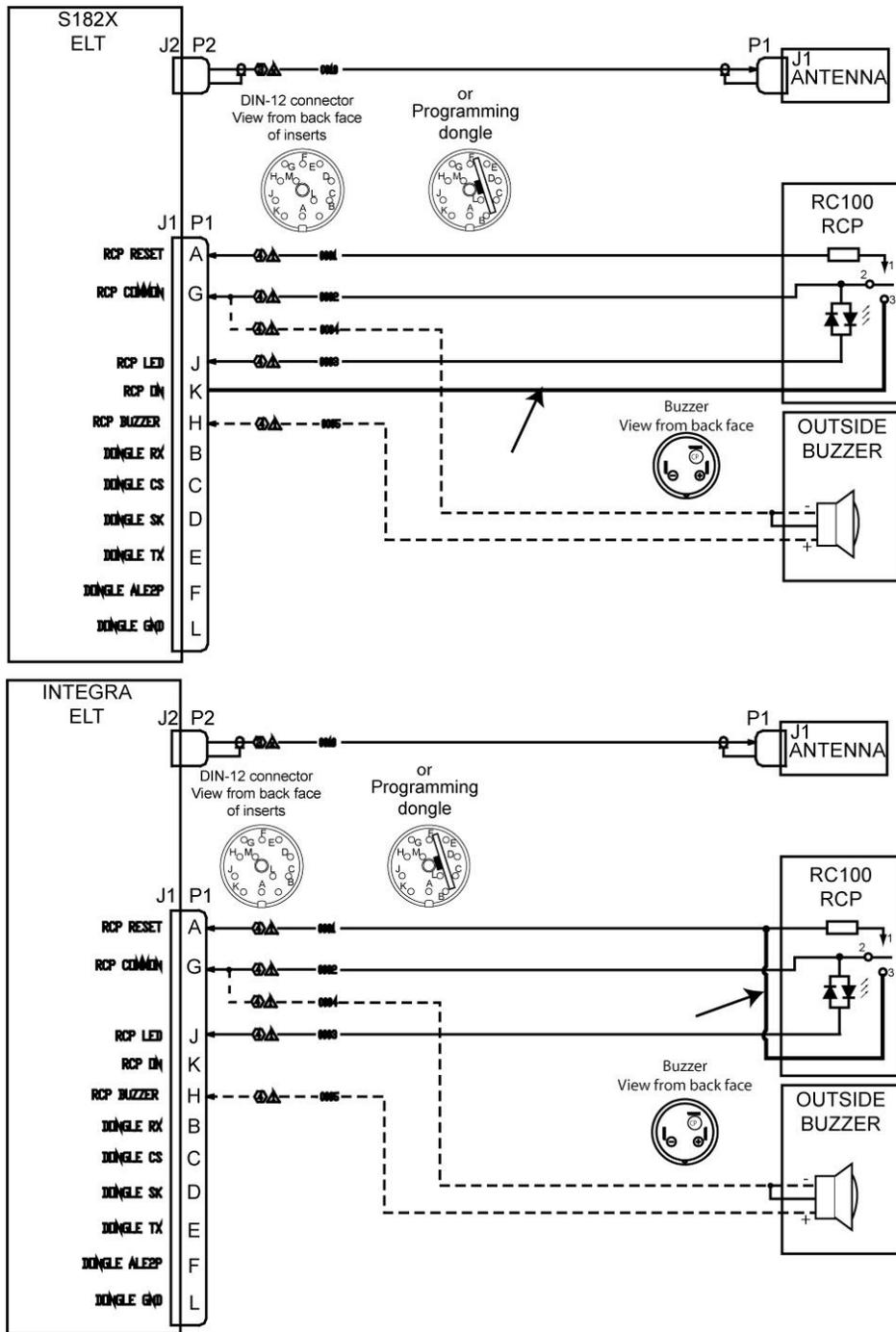
When replacing a KANNAD 406 AF-COMPACT with an INTEGRA ELT no modification of the RCP wiring is required.

### [Refer to Section 2. APPLICABILITY.](#)

If connected to an RCP, the wiring connection of all other KANNAD 406 ELTs has to be modified in order to avoid the replacement of the ELT / RCP connecting cable.

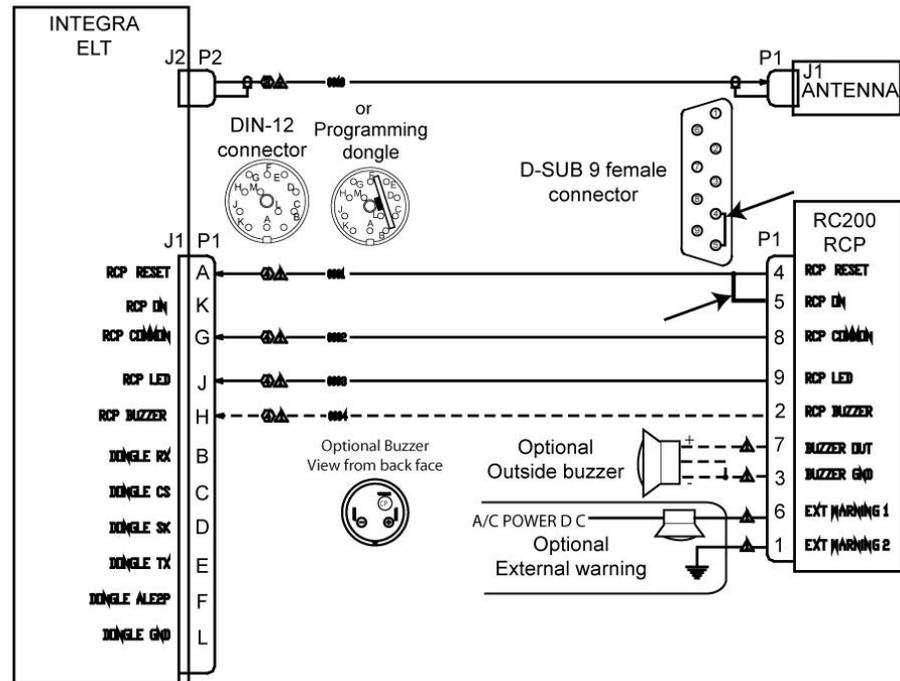
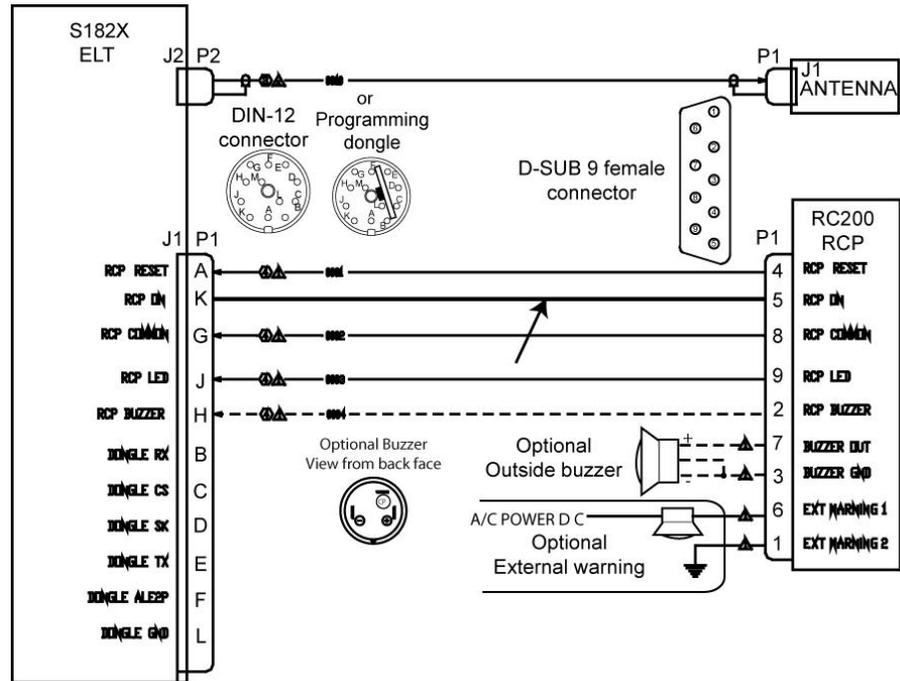
**IMPORTANT: in any case, only one wire has to be disconnected. This wire needs to be unsoldered on both sides (ELT DIN-12 connector and RCP connector), then cut to remove the stripped wires, and finally protected by heat-shrink tubing.**

## (1) RC100 / 150 wiring modification



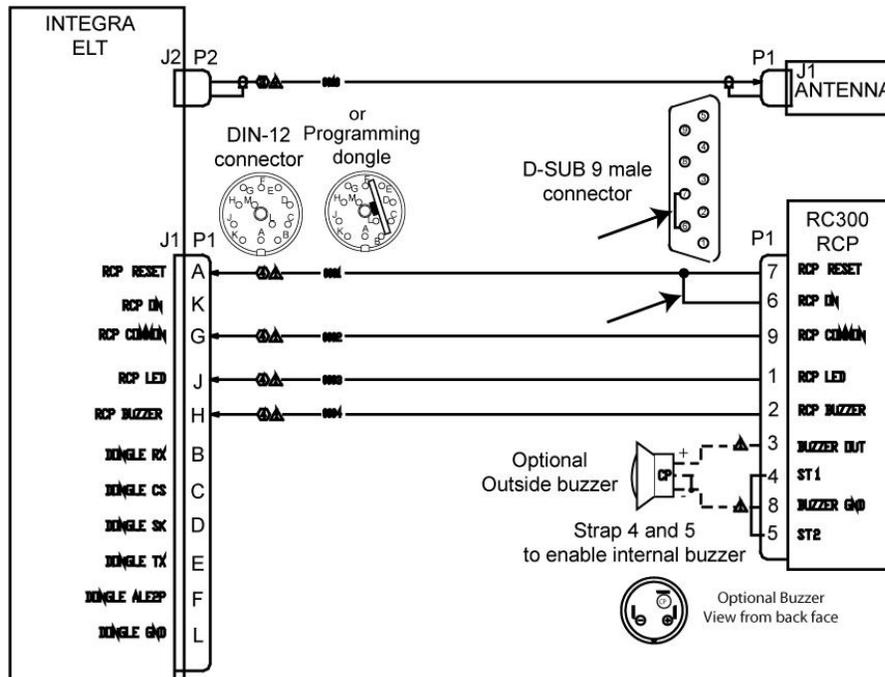
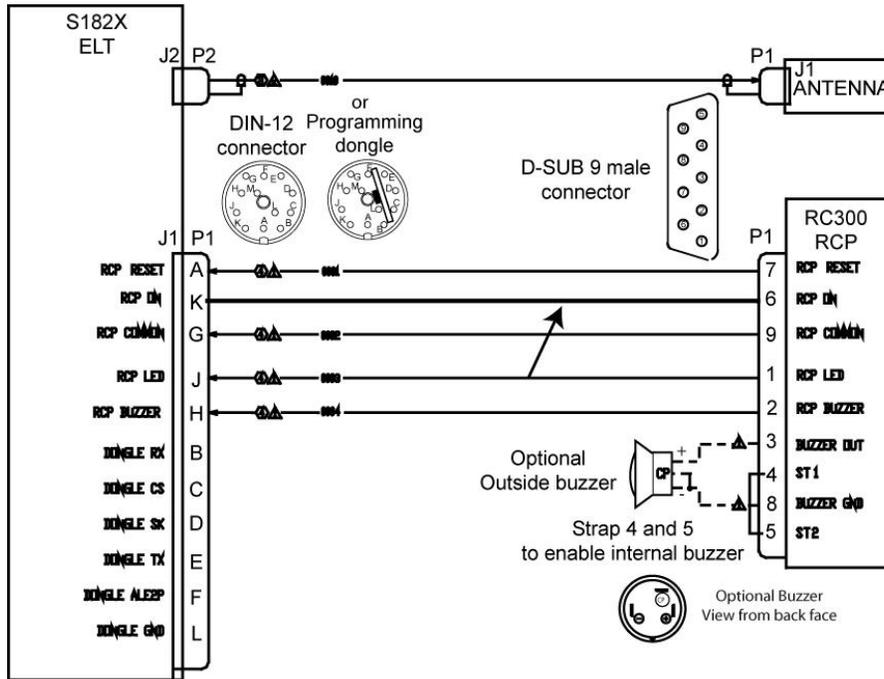
- On the ELT side, unsolder wire from pin K of DIN-12 connector, cut the stripped part, and then protect with heat-shrink tubing.
- On the RCP side, unsolder wire from terminal 3 of switch, cut the stripped part, and then protect with heat-shrink tubing.
- Connect terminal 3 of switch to the resistor as shown on the figure above.

(2) RC200 wiring modification



- On the ELT side, unsolder wire from pin K of DIN-12 connector, cut the stripped part, and then protect with heat-shrink tubing.
- On the RCP side, unsolder wire from pin 5 of D-SUB 9 female connector, cut the stripped part, and then protect with heat-shrink tubing.
- Strap pins 4 and 5 of D-SUB 9 female connector.

(3) RC300



- On the ELT side, unsolder wire from pin K of DIN-12 connector, cut the stripped part, and then protect with heat-shrink tubing.
- On the RCP side, unsolder wire from pin 6 of D-SUB 9 male connector, cut the stripped part, and then protect with heat-shrink tubing.
- Strap pins 6 and 7 of D-SUB 9 male connector.

**6. APPROVED INSTALLATION**

The integral 406 MHz antenna is officially for back up only. Automatic Fixed (AF) or Automatic Portable (AP) ELTs, even fitted with this integral antenna, are still required to be connected to an external approved antenna.

Local regulation may allow other installations than as described in the installation manual.

However, **when authorized by national regulations**, if they are installed without being connected to an external antenna and / or used as portable equipment, 121.5 MHz transmission will not be available for AF versions. Accurate position can be found thanks to the built-in GPS data transmitted within the 406 MHz message.

**7. CONTACT**

For any further information, please feel free to contact our customer support at:

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