CLAXHAWKIF232

RS-232 option card for HAWK

Installation Instructions

CLAXHAWKIF232

This document covers the mounting and wiring of the RS-232 option card in a CentraLine HAWK2xx/6xx controller.

Table 1 RS-232 option description

Description	Notes
Single port RS 232 adapter, with DB-9M connector. Uses its own on-board UART. Supports baud rates up to 115200. Note: The HAWK requires Niagara^{AX} build level 3.1.24 or higher to use the HAWKIF232 option.	Up to 2 RS 232 option cards may be installed. COM ports are assigned as follows: • If a single RS-232 option in Option Slot 1, port is COM3. • If two RS 232 options, ports are COM3 for Option Slot 1, and COM4 for Option Slot 2. • If a single RS-232 option in Option Slot 2, with another option type in Slot 1, the COM assignment varies: Slot1 — Slot2, RS-232 LON — COM3 RS-485 — COM5 See Figure 2 for location of HAWK Option Slots.

For related HAWK mounting and wiring details, please see the *HAWK2xx/6xx Instalation Instructions* document (Literature No.: EN1Z-0944GE51)

Included in this Package

Included in this package you should find the following items:

- an RS-232 option card, along with connector end plate
- This CLAXHAWKIF232 Installation Instruction

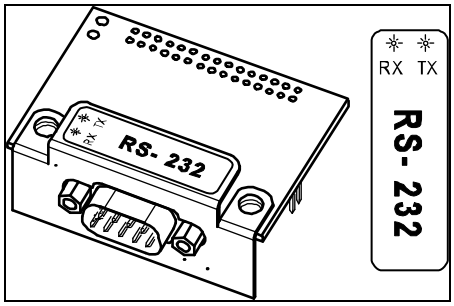

Fig. 1 RS-232 option card

Mounting

Warning **Power to HAWK2xx/6xx must be OFF when installing or removing option cards, or damage will occur! Also, you must be very careful to plug any Option card into its connector properly (pins aligned).**

Mount the RS-232 option card in either of the option card slots of the HAWK2xx/6xx, as available. See the notes in Table 1 on software COM ports assignments if installing two RS-232 option cards.

Procedure **Mounting option cards on a HAWK 2xx/6xx.**

Step 1 Remove power from the HAWK 2xx/6xx—see the previous WARNING.

Step 2 Remove the cover. To do this, press in the four tabs on both ends of the unit, and lift the cover off.
Note If accessory modules are plugged into the HAWK2xx/6xx, you may need to slide them away from the unit to get to the cover tabs.

Step 3 Remove the battery and bracket assembly by taking out the four screws holding it in place, setting the screws aside for later. Unplug the battery from the connector on the HAWK 2xx/6xx. See Figure 2 for an exploded view.

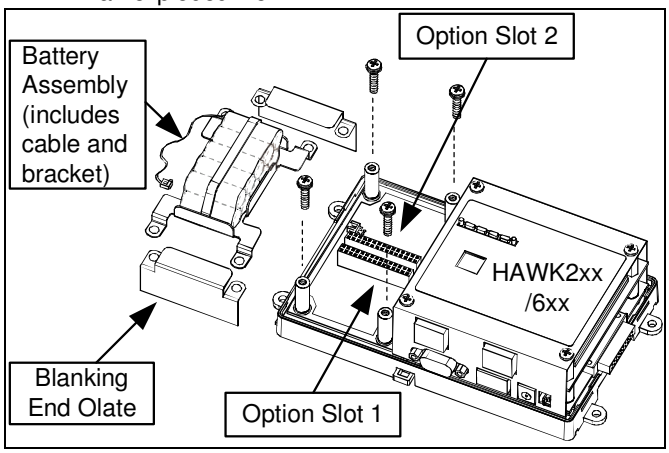

Fig. 2 Remove screws and battery assembly.

Step 4 Remove the blanking end plate for the slot you are installing the option card into.**Step 5**
Carefully insert the pins of the option card into the socket of the appropriate option card slot. The mounting holes on the option board should line up with the standoffs on the base board. If they do not, the connector is not properly aligned. Press until the option card is completely seated.

Trademark Information

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Step 6 Place the custom end plate that came with the option card over the connector(s) of the option card. (see Figure 3)

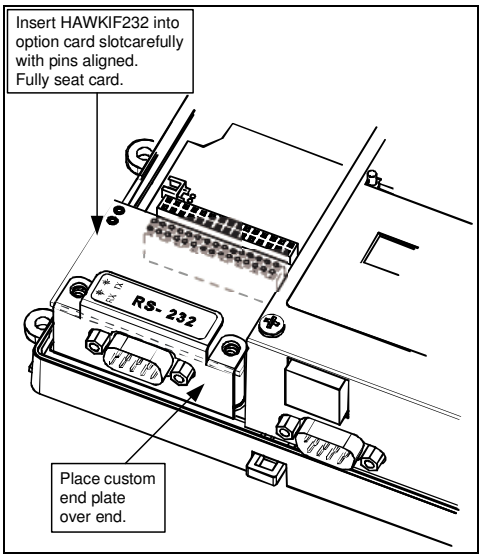


Fig. 2 RS-232 inserted, end plate on top.

Step 7 Plug the battery connector plug into the battery connector on the HAWK 2xx/6xx. (see Figure 3)

Step 8 Set the battery and bracket assembly back over the option card slots, with the mounting holes aligned with the standoffs.

Step 9 Place the four screws through the battery bracket, end plates, and into the standoffs on the HAWK 2xx/6xx base board. Hand tighten these screws.

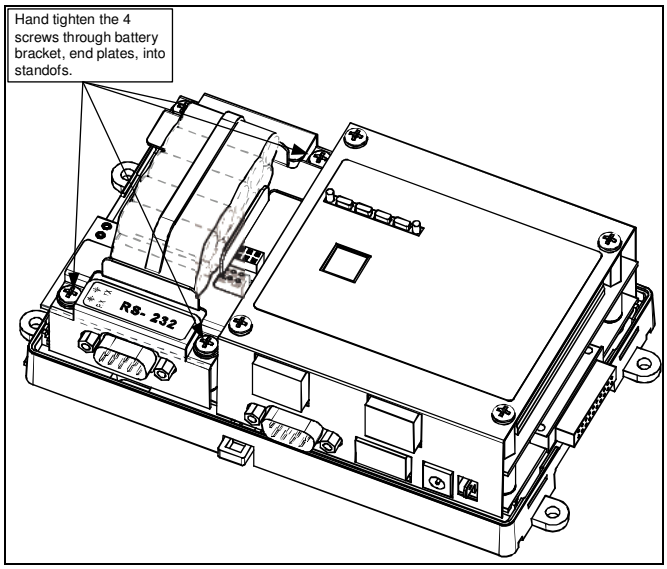


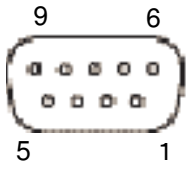
Fig.4 Re-fasten screws through battery bracket.

Step 10 Replace the cover. If accessory modules were unplugged, plug them back into the HAWK as before, and secure.

Port Pinouts

The RS-232 option has standard DB-9M pinouts, identical to the RS-232 port on the HAWK2xx/6xx base. Table 2 provides a visual reference.

Table 2 RS-232 port pinouts.

Pinout Reference	Signal	DB-9 Plug Pin
DB-9 Plug (male) 	DCD	1
	RXD	2
	TXD	3
	DTR	4
	GND	5
	DSR	6
	RTS	7
	CTS	8
	not used	9

Standard DB-9 serial cables may be used, for example, a “null modem” cable to communicate to another DTE device.

LEDs

Two LEDs are visible on the top of the RS-232 option card (cover must be removed from HAWK). They are also noted on the label—see Figure 1. The two LEDs are described as follows:

- TX (yellow) — Transmit, indicates that the HAWK is sending data to a device.
- RX (green) — Receive, indicates that the HAWK is receiving data from a device.

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