Trendsetter NEWS

External Alarm Indicator Interface Installation

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Revision History

Revision	Date	Author	Comments
A	May 2005	Ming Zhang	Initial release of document

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1. BACKGROUND

In response to requests from some Trendsetter® NEWS customers, Creo has developed an external alarm indicator interface to which they can connect their own alarm indicator, thus greatly increasing the operational efficiency of their press room.

The upgrade kit provides a cable with one set of normally closed (NC) and one set of normally open (NO) relay contacts, which customers can connect to their choice of alarm indicator.

Note: This upgrade is not a field change order (FCO). It is an option that customers must purchase if they want it. Contact your district manager if you need information on availability and pricing.

This document provides:

- Interface and relay contact specifications
- A list of parts included in the kit
- A list of what is not included, that the customer must supply, based on their particular needs
- A detailed installation procedure

2. DEPENDENCIES

- MCE-based Trendsetter NEWS output device with new tricolor LED autoloader status lights installed
- MCE Trendsetter NEWS Controlled Release 3.1 or later

3. PARTS REQUIRED

3.1 Upgrade Kit, Part Number 518-01284A

Part Number	Description	Quantity
220-01232A	Cable assembly, external alarm contacts	1
18-3017	Cable ties	5
18-3049	Cable ties	5
16-3161	Connector plug, three-position, crimp, AMP® MATE-N-LOK®	5
16-3156	Pins, female, 24-18 awg, MATE-N-LOK	3
52-3057	Washer, m3, flat, steel plated	2
52-4153	Screw, m3 x 12, socket-cap, stainless steel	2

3.2 Customer Must Supply

- Alarm indicator and related driver/power source
- Extension cable connecting between Trendsetter NEWS CTP device (interface cable 220-01232A) and customer's alarm indicator

4. TOOLS REQUIRED

- Crimping tool: AMP part number 90548-1 or compatible

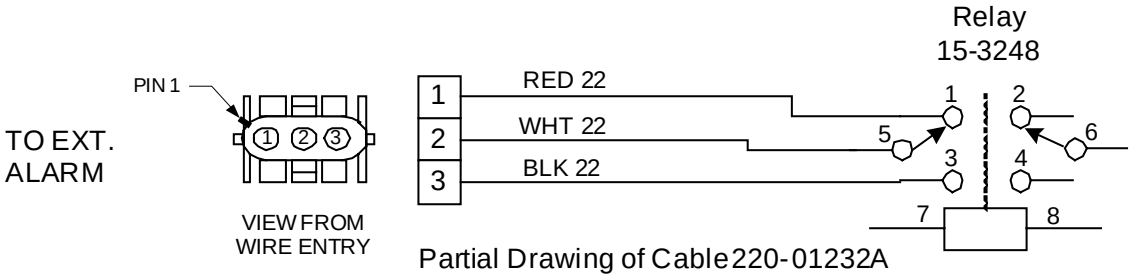
5. DOCUMENTATION REQUIRED

In addition to this document, the following documents are required:

- Cable drawing, 220-01232A-A. It is downloadable from the Trendsetter NEWS Procedures page on TechPlanet: http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/proced.htm#upgrades.
- Documentation or specifications for the customer's external alarm indicator

6. INTERFACE AND RELAY CONTACT SPECIFICATIONS

A three-position AMP MATE-N-LOK receptacle-type connector is provided. The Creo part number is 16-3160. The AMP/Tyco part number is 1-480700-0.



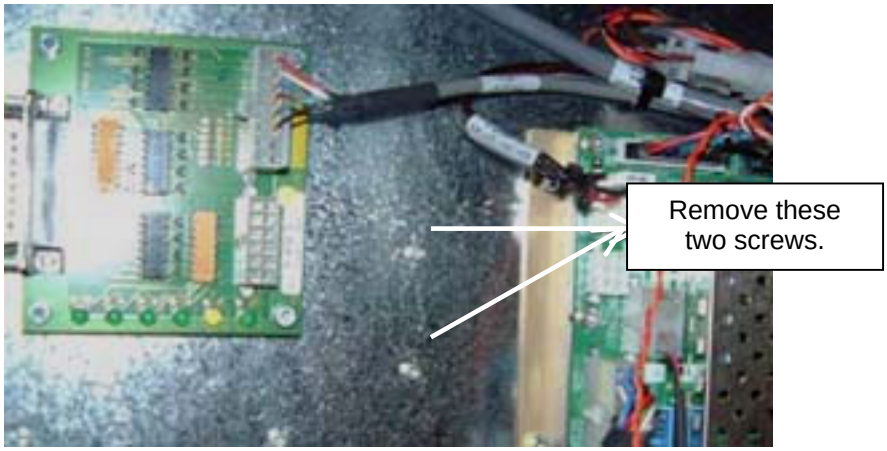
- For normally closed (NC) contacts, connect the external alarm indicator between pin 1 and pin 2.
- For normally open (NO) contacts, connect the external alarm indicator between pin 2 and pin 3.
- Both contacts are rated at: maximum 10 A @ 240 VAC or 10 A @ 28 VDC.

Use a matching three-position AMP MATE-N-LOK plug type connector (Creo part number 16-3161; Tyco/AMP part number 1-480700-0), along with three pieces of female pins (Creo part number 16-3156; Tyco/AMP part number 350689-1) to mate with the above interface connector.

7. UPGRADE PROCEDURE

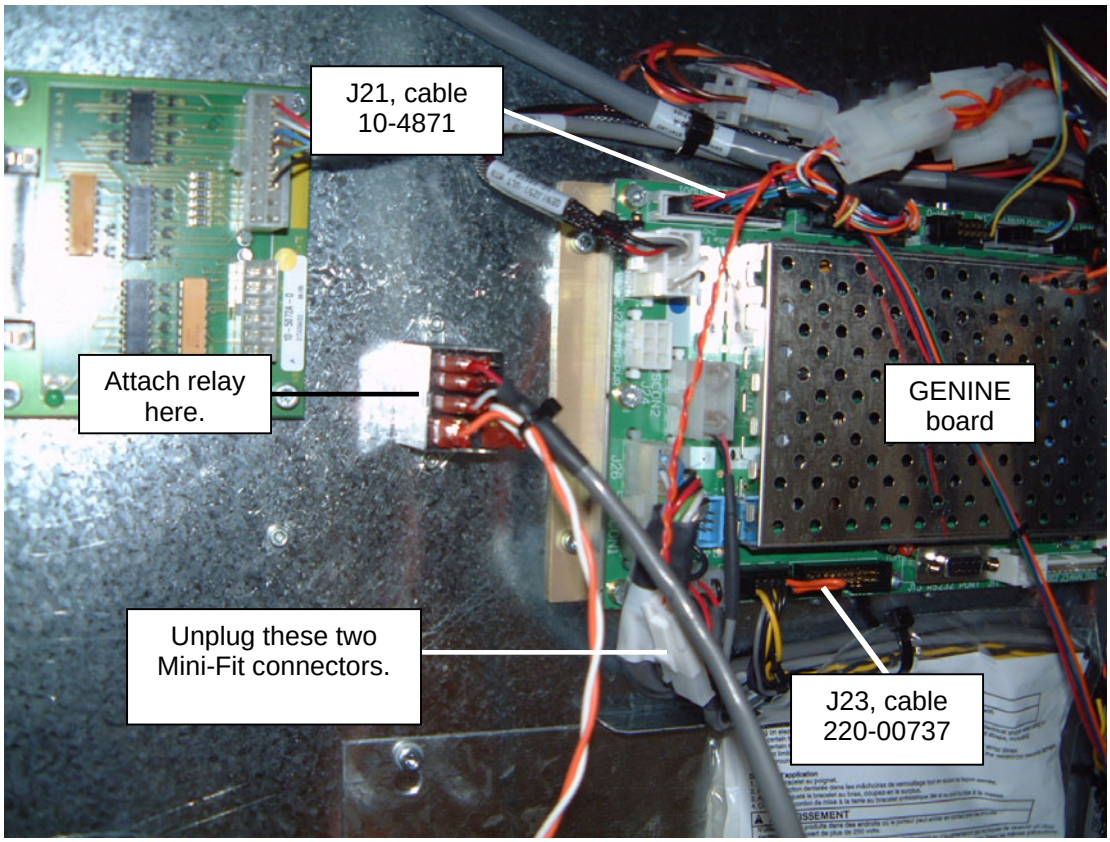
1. Turn off the main power switch and open the power box side panel and cover.

2. Locate and remove the two hex head screws next to the left side of the GENINE (generic input/output node electronic) board on the back wall of the power box. (See the following figure.)

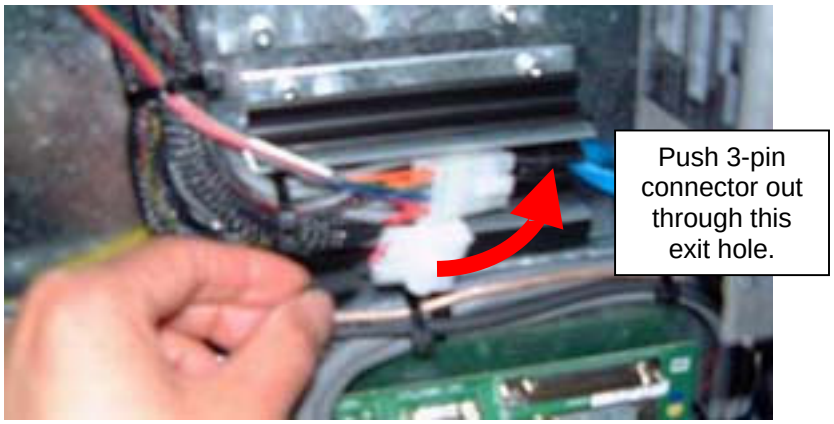


3. Attach the relay part of cable assembly 220-01232A to this position using the supplied screws (52-4153) and washers (52-3057).

4. Unplug the two-pin Molex® Mini-Fit®-type connectors between cable 10-4871, attached to connector J21 of the GENINE board, and cable 220-00737, attached to connector J23 of the GENINE board. (See the following photo.)



5. Connect the two-pin Mini-Fit-type plug of cable 220-01232A to cable 10-4871 and the two-pin Mini-Fit-type receptacle of cable 220-01232A to cable 220-00737.
6. Route the part of cable 220-01232A with the three-pin MATE-N-LOK-type connector toward the right-hand cable exit hole of the power box, and push the three-pin connector out through that exit hole. (See the following photo.)



7. Use the supplied cable ties to neatly attach the entire length of cable 220-01232A inside the power box.
8. Carefully check to see if any other sections of cable came loose during this procedure. If necessary, use the supplied cable ties to bundle them neatly.
9. Close the power box cover and side panel.
10. Decide the exit location of the three-pin MATE-N-LOK type interface connector. Use the supplied cable ties to secure the part of cable close to that location to provide proper strain relief.
11. Work with customer to determine which pair of contacts to use.

    Use the appropriate crimping tool to attach the Creo-supplied female pins (part number 16-3156) to the customer-supplied extension cable/wires.

    After you have crimped these pins, insert them into the correct positions in the MATE-N-LOK plug (part number 16-3161), based on either NC or NO, or both. For more information, see *Interface and Relay Contact Specifications* on page 2.
12. Visually verify that all the connections are correct.
13. Turn on power to the Trendsetter NEWS output device.
14. Test the external alarm interface by entering one of the following commands in Service Shell:
    - `ui errlamp on`
    - `statuslights yellowf`
15. The external alarm indicator should switch on, along with yellow lights on the Trendsetter NEWS output device. If not, then diagnose the problem and correct it.

16. Turn off yellow lights by entering one of the following commands:

    - `ui errlamp off`
    - `Statuslights off`

[ES1]I searched on the Internet for Mate & Lok but found only MATE-N-LOK. Have added full name and trademark symbols to first instance.