

# DSX Film Scanner



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## Pre-Delivery Information Handbook

### Issue 1

*While every effort has been made to ensure that the contents of this document are accurate Cintel International equipment is under constant review to bring about improvements in design, and a unit may differ in detail from that described.*

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## Installation & Commissioning Information

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## Warnings



**Electrical supplies in excess of 50 (fifty) volts are potentially hazardous or lethal; supplies of up to 30kV exist within the DSX Telecine. At no time should contact be made with the machine wiring or terminals, except via a probe with appropriate insulating properties.**



**Access to the inside of the telecine is restricted by locked front and rear access doors; the telecine is designed to be operated with these in place. At certain times it may be necessary to switch on the power while one or more of these doors are removed. These doors must only be removed by qualified service personnel for maintenance purposes.**



**The telecine is designed so that it CANNOT be operated with either the film transport or lower sliding doors open; safety interlock switches force the telecine into a STOP condition when either of these doors are opened. Do NOT in any way modify or alter the operation of these switches; these switches are fitted for safety purposes and can only be over-ridden by qualified service personnel equipped with a tool.**

## Introduction

This chapter provides the information necessary to install the telecine and then bring it to operational status following the installation.

### Warning



**Installation and commissioning of the telecine should only be carried out by Cintel appointed engineers.**

## Installation Requirements

### Location

The location of the telecine should allow for all-round ventilation and provide adequate access for maintenance. Ensure that the area is dust-free and that dust can not enter through the air intakes, etc. A local ambient temperature of 18-25°C is recommended for operation; air-conditioning is recommended if the temperature exceeds 26°C after taking into account the heat dissipation of all equipment in the telecine area, including the telecine itself. Humidity control is also recommended where either a low or high relative humidity may occur. Low humidity will elevate the generation of static from moving film, high humidity may cause damage to electrical circuits and cause film emulsion swell. A humidity value of between 50 – 70 RH (Non-condensing) is recommended.

The telecine has an approximate net weight of 850Kgs that is supported on four castors, each having a tread width of 25mm. Ensure that the specified floor loading of the site is not exceeded. The dimensions of the telecine and the positions of the castors are shown in Figure 1; the rear of the telecine and the position of the ventilation grilles are shown in Figure 2. The ventilation flow direction is shown in Figure 3.

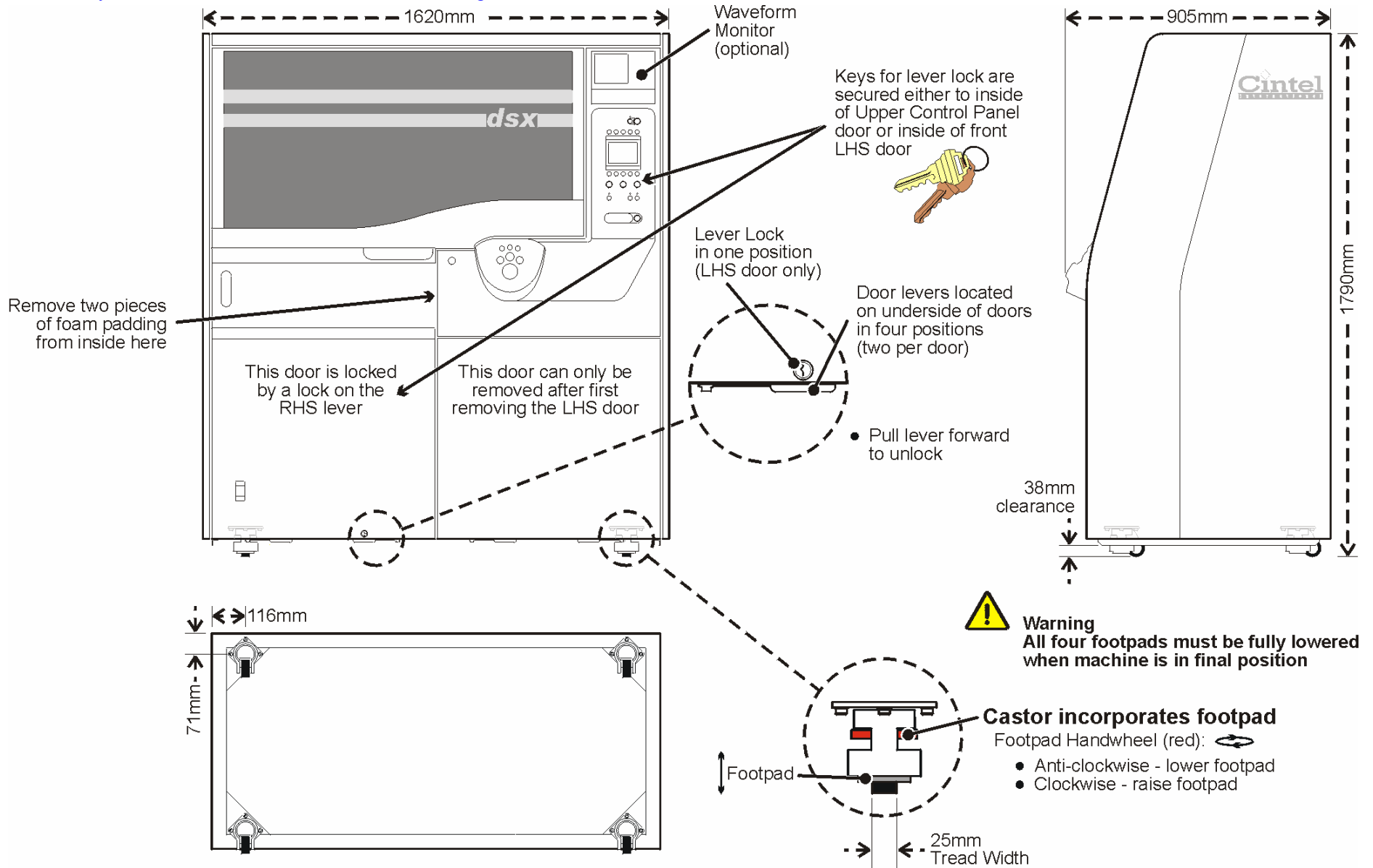


Figure 1 Machine Dimensions

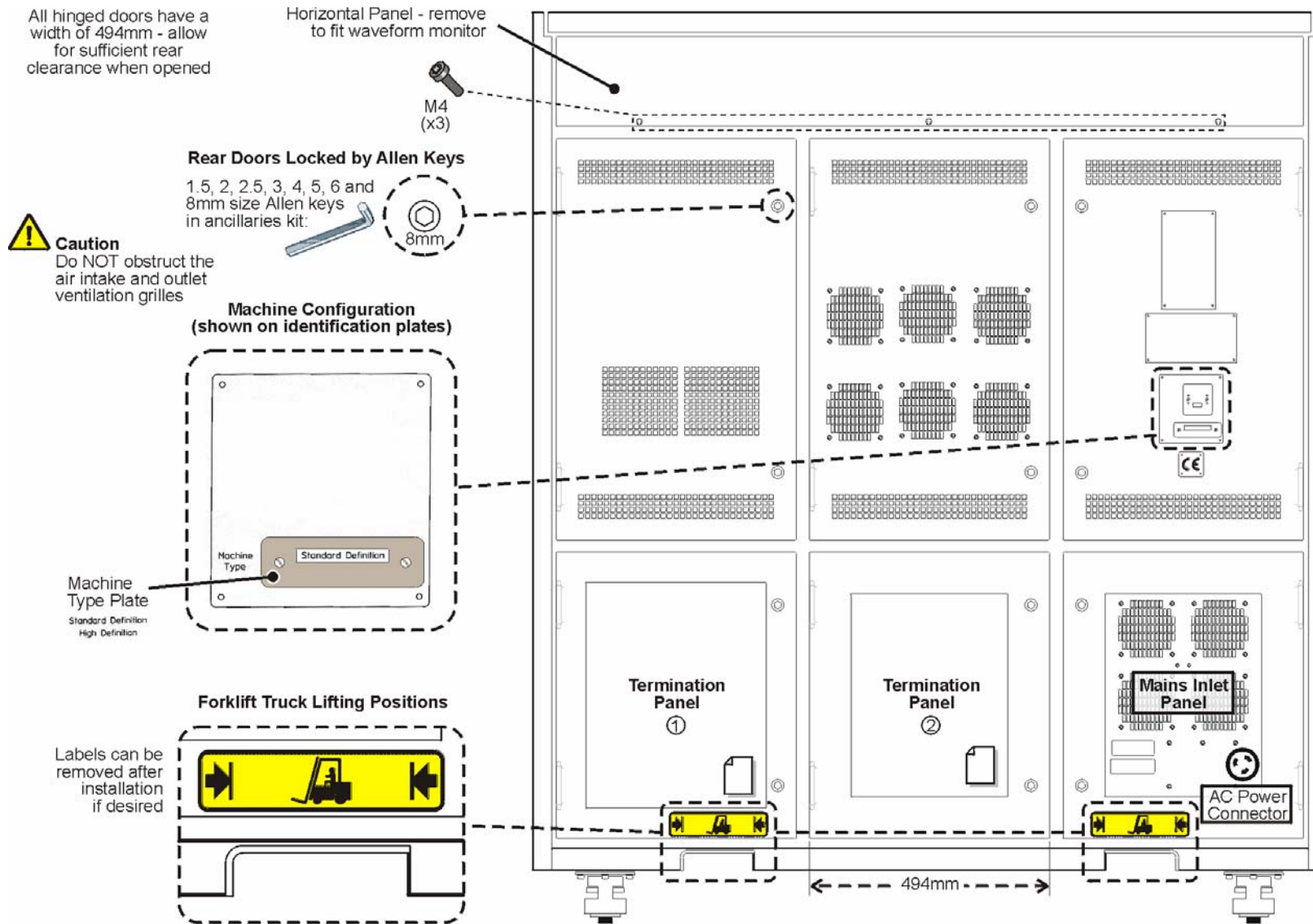


Figure 2 Rear of Machine

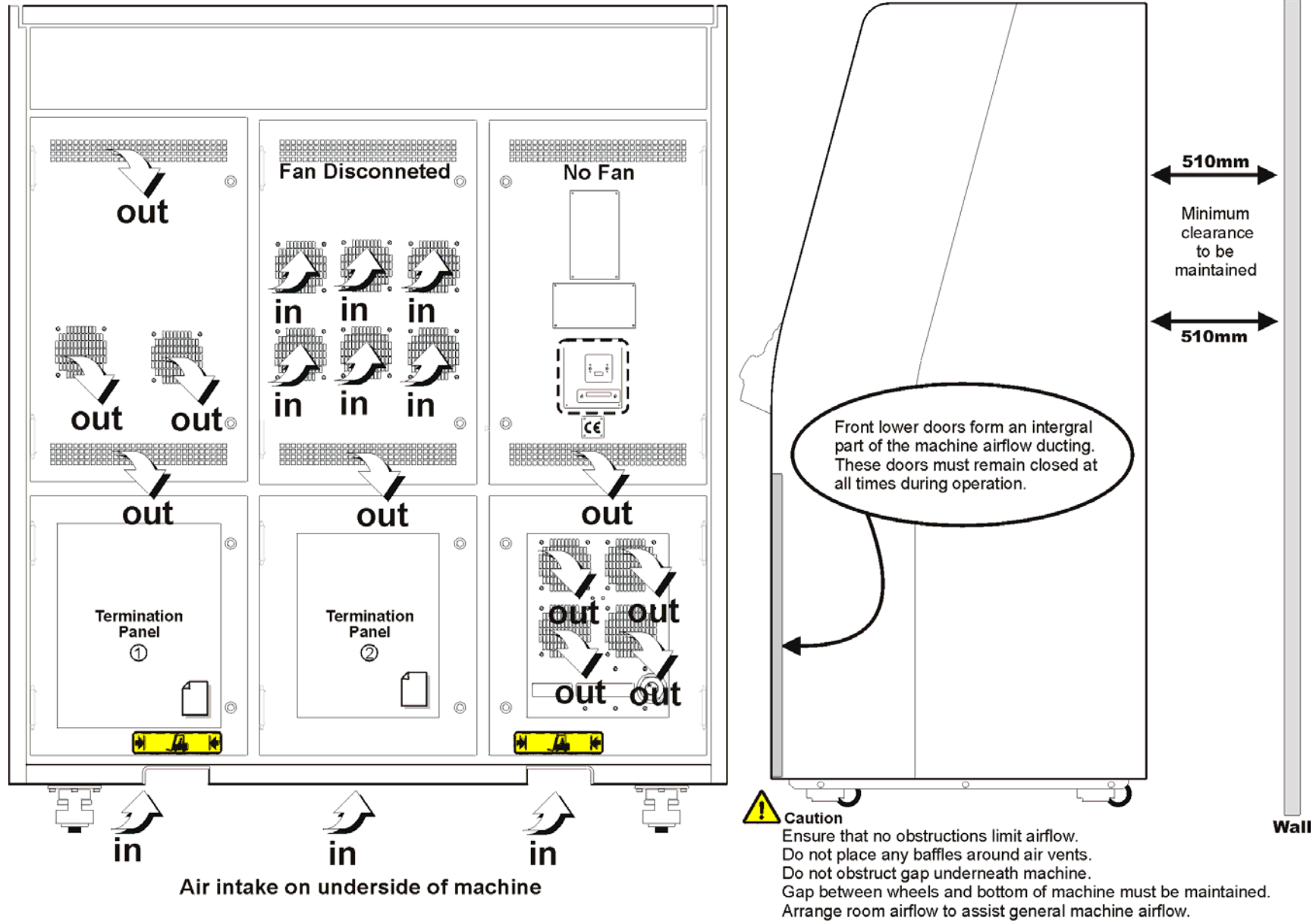


Figure 3 Rear of Machine AirFlow

**Power**



**Warning**

**Leakage current exceeds 3.5mA, special grounding requirements apply.**

The telecine should be powered from a 'clean' single phase mains supply as follows:

The AC input is auto sensed, typical power requirements are shown below

<u>Local Supply</u>	<u>Current Rating</u>	<u>Machine Type</u>
194-257V, 50Hz	20A	SD HD and Data
97-129V, 50/60Hz	40A	SD HD and Data

Refer to  
Connecting to the Local Power Supply on Page 8 for cable colour coding details.

**Signal**

The telecine requires the following inputs (other than connections to the control system):

- Mixed Syncs, 2V to 4V amplitude, negative going or composite video, or Serial Digital (SD/2k).
- HD Tri level Ref (Sync)
- External Audio and SEPMAG (If required).

**Remote Control Desk and other Ancillary Equipment**

Please refer to the relevant manufacturer's documentation for installation details.

**Unpacking**

Remove all visible packaging.



**Caution**

**Ensure the castor wheelpads are in the upper position before attempting to move the machine on its castors.**

### **Fitting Side Panels**

The two side panels shown in Figure 4 are packed separately and must be fitted to the sides of the machine. This must be performed BEFORE any waveform monitor is fitted:



#### **Caution**

**Take care not to damage the outer surfaces of the panels when handling.**

1. Carefully unpack the side panels from their packaging and check that all twelve screws (five for the left-hand side panel and seven for the right-hand side) are fitted. Remove these screws and place to one side.
2. Remove the six M5 screws fitted to the bottom of the framework (three each side) and place to one side.

#### *Left-Hand Side Panel*

3. Open the film transport door.
4. Place the left-hand side panel up against the side of the machine and fit the five upper M6 screws and the three lower M5 screws. Inserting the first screw in position A and the second screw in position B (as denoted in Figure 4) helps to position the door. The upper screws are inserted from the inside of the machine and fasten through pre-drilled holes into metal inserts in the panel; the lower screws fit from the outside of the machine and fasten through the metal bracket on the bottom edge of the panel into the framework. When all screws have been inserted tighten securely.
5. Close the film transport door.

#### *Right-Hand Side Panel*

6. Open the upper control panel by hinging it from the right-hand side. The panel is held in the open position by a strut.
7. Place the right-hand side panel up against the side of the machine and fit the seven upper M6 screws and the three lower M5 screws. Insert screws first in positions A and B as shown in Figure 4. The upper screws are inserted from behind the upper control panel. All screws fasten in a similar manner to those on the left-hand side panel.

*Note: The upper control panel must be left open in order to fit the waveform monitor. This is detailed in the next procedure.*



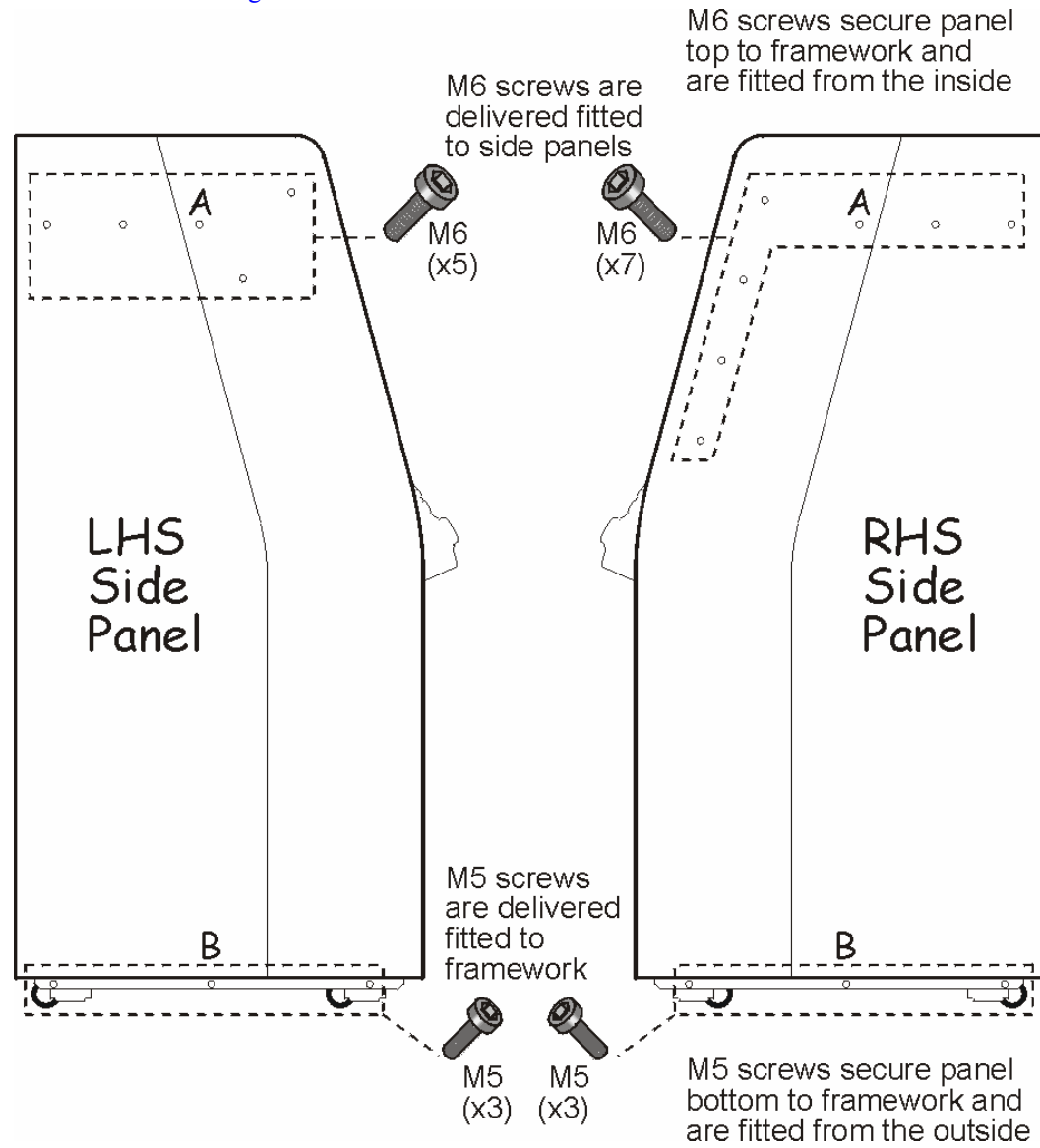


Figure 4 Fitting Side Panels

**CRT Package**

**Warning**



**A voltage of 30kV is produced to drive the CRT. On no account attempt to fit the CRT assembly with the power switched ON.**

The telecine is delivered WITHOUT the Cathode Ray Tube assembly fitted. This package is shipped separately and therefore needs to be installed on delivery. This procedure is to be carried out from the front of the machine only by a qualified technician following Cintel instructions.



**The CRT weighs approximately 30Kg (66lbs.) and should be handled with care using the two handles provided.**



**The CRT may have retained a residual electrical charge following factory testing and should be handled appropriately.**

*Note: Before use the CRT must be installed and electrically aligned.*

**Connecting to the Local Power Supply**



**Warning**

**Electrical supplies in excess of 50 (fifty) volts are potentially hazardous or lethal.**

**Ensure that the electrical supply circuit earth conductor is NOT smaller than the supply conductors. Earth conductors may be bare or insulated; insulation must be green or green with one or more yellow stripes.**



**Warning**

**Leakage current exceeds 3.5mA, special grounding requirements apply.**

Power is supplied to the telecine through an AC Barrel Connector on the Mains Inlet Panel located at the rear of the machine as shown in Figure 2. A four metre cable tail is pre-fitted to all machines

Connect the cable tail to the local power supply using an appropriate connector and in accordance with the markings detailed in Table I. Ensure that this connection conforms to the applicable local wiring regulations.

Wire Colour	Marking
Green/Yellow	Earth, E, $\perp$
Brown	Live, L
Blue	Neutral, N

Table I Identification of Cable Markings

**Making Signal Connections**

Make the appropriate connections for your installation. All external connections are made to the termination panels on the rear of the telecine. Refer to Figures 4 & 2.

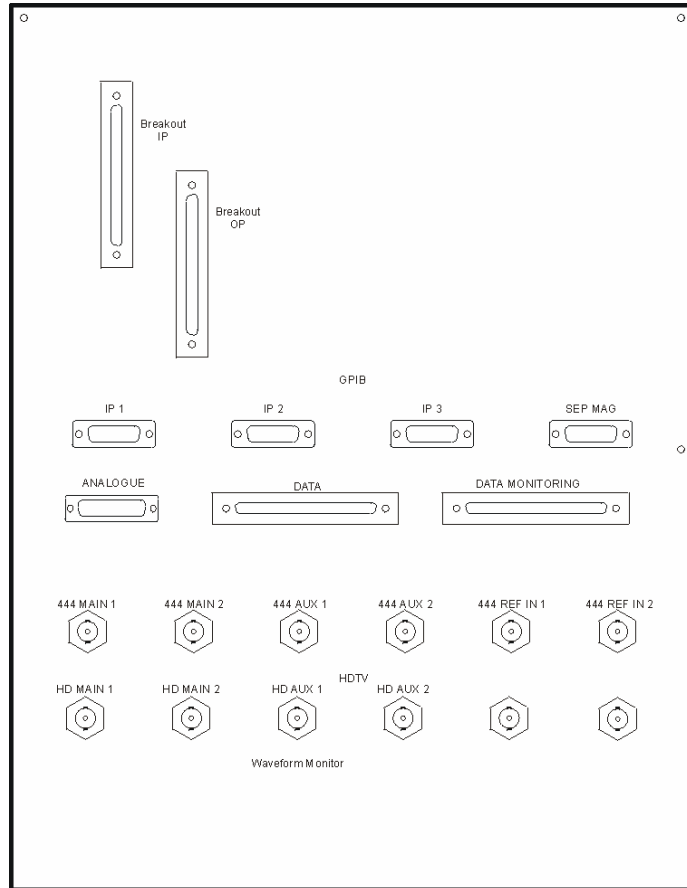


Figure 4 Termination Panel 1

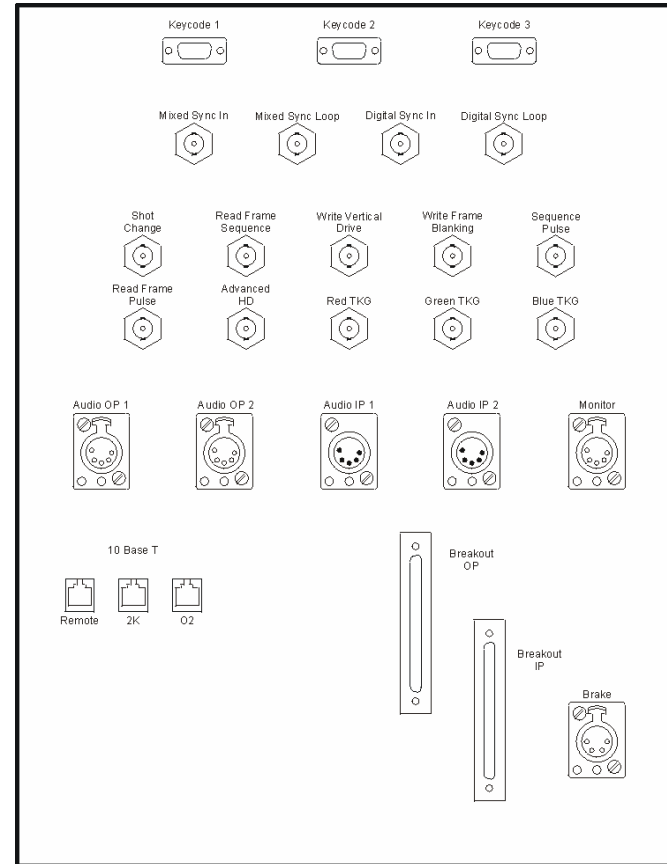


Figure 5 Termination Panel 2