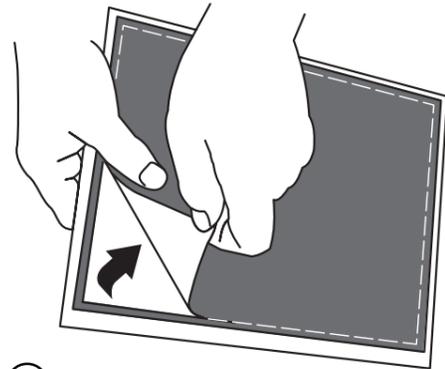


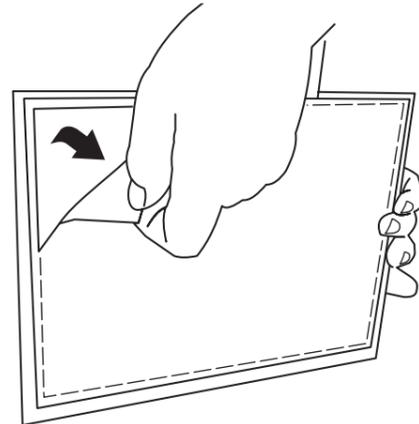
CAUTION

Care must be taken during this procedure to avoid damaging flexi cable.



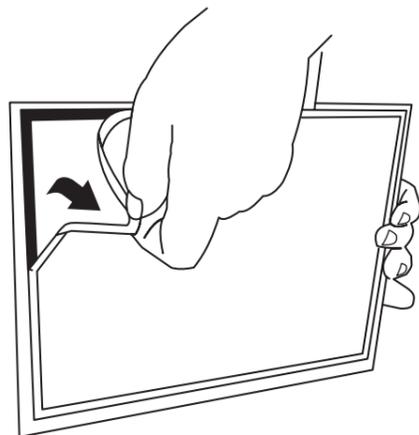
9

Remove the central part of the black foam-rubber gasket from the rear of the new touch-screen



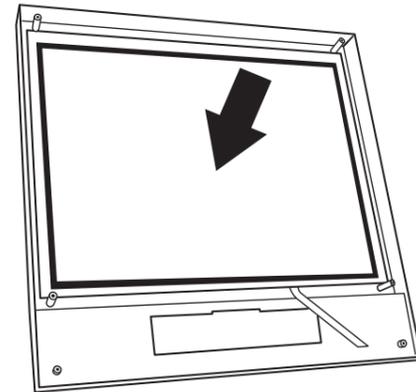
10

Remove the central part of the front gasket



11

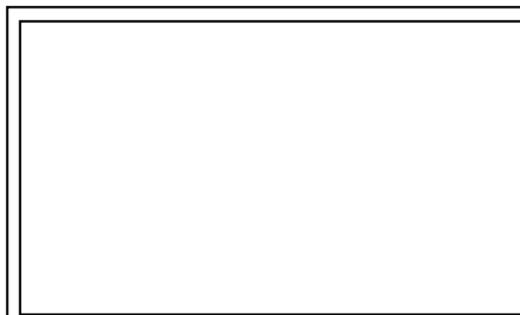
Peel the self-adhesive backing from the remaining part of the front gasket



12

Ensuring that the touch-screen flexi-cable is oriented as shown, carefully introduce the new touch screen into the frame, and press home. Ensure that the front gasket is well seated, all the way round.

Re-assemble the recorder, using the opposite procedure to the disassembly procedure described in steps 1 to 5, above. Once the re-assembly procedure is complete, carry out the screen calibration procedure as described in the Installation and Operation manual. Failure to carry out this procedure will result in the touch screen and display screen being misaligned relative to one another.



 **invensys**
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Touch screen replacement instructions 180 mm video-graphics recorders

These instructions are intended as an aid to Eurotherm service engineers who are required to replace the touch screen on a 180mm video-graphics recorder. This is not intended to be a customer procedure.

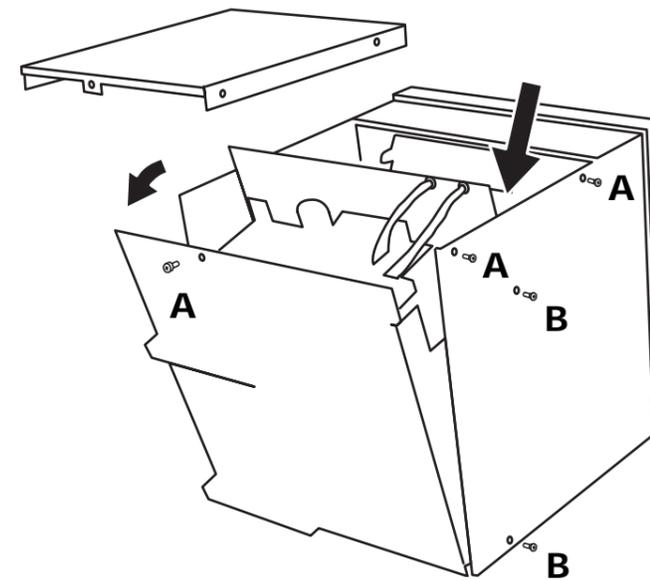
QUALITY CONSIDERATIONS

It is recommended that finger cots or plastic or latex gloves are used when carrying out those stages of this procedure which involve handling the touch screen or the display screen.



CAUTION

These procedures involve the handling of components which are sensitive to static electrical discharge. All relevant personnel must be aware of static handling procedures.



1

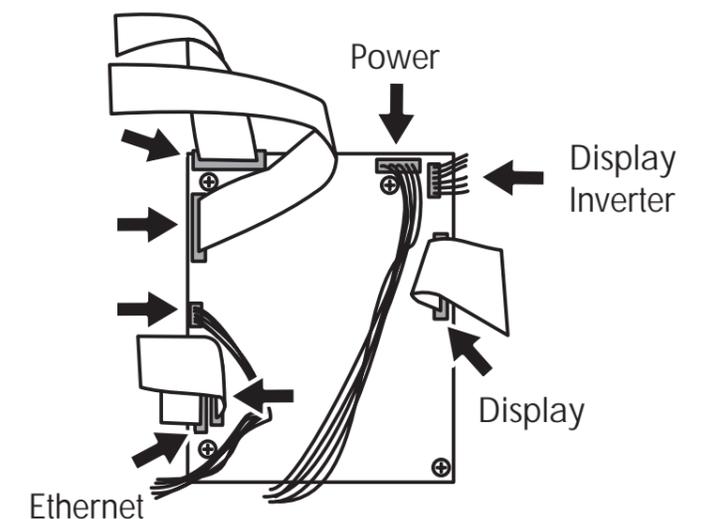
Remove the recorder top plate by removing the five securing screws ('A': Two each side and one at the rear.)

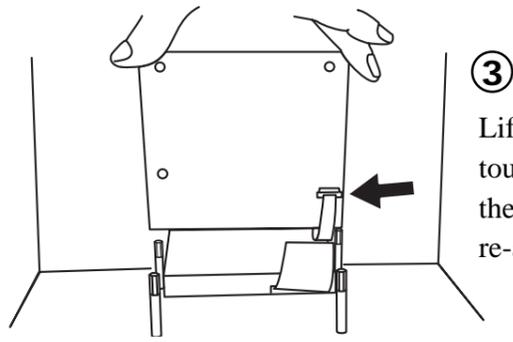
Remove the card cage securing screws ('B': two each side)

Rotate the card cage sufficiently to gain access to the micro board looms.

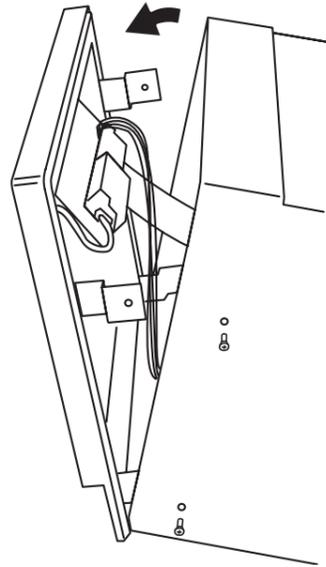
2

Disconnect all the micro board looms. Lift the card cage out of the chassis and store it in a static-safe area, pending re-assembly. Release the micro board by undoing its four securing screws.

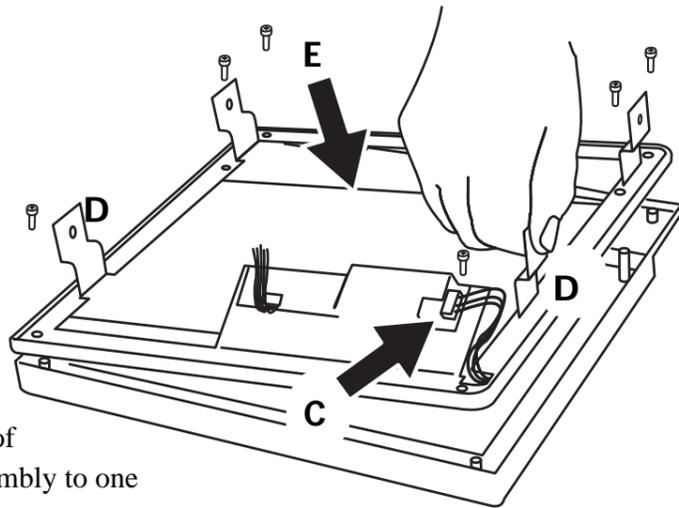




3 Lift the edge of the microboard to reveal the touch-screen flexi cable, and disconnect it. Place the board in a static safe area until needed during re-assembly.



4 Remove the front cover of the recorder by undoing the remaining four securing screws (two each side)

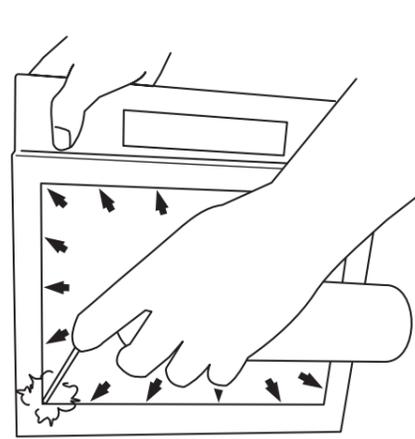


5 Remove the six securing screws from the display backplate. The backplate and the display can now be pulled away carefully from the cover, using one or both of the upper brackets ('D' in the figure). Lay the assembly to one side, in a static safe area.

CAUTION

On some versions of the recorder, the display is secured only near its top edge. The lower edge of the display ('E' in the figure) is not secured to the chassis and the display should therefore be supported by hand, as it becomes accessible.

Note: For current versions of the recorder, the upper brackets are joined to the lower brackets by metal support straps



6  In accordance with the manufacturer's instructions for use, and details provided by the manufacturer's Safety Data Sheet (MSDS), use a commercial 'Freezer spray' (available from most electronics distributors) to freeze the gasket located between the touch screen and the door. Run the spray tube twice round the whole frame, at moderate speed to ensure that all the gasket is frozen. Continue at step 7 as soon as possible.

WARNING,



The next step involves using a sharp blade to remove a glass sheet from its mounting. It is recommended that eye protection be worn, to guard against glass ingress should the touch screen break. When using the blade, it should always be moved in a direction away from the user, and it should be ensured that, should the blade break or slip, no contact would be made with either the person carrying out the procedure or by any nearby personnel.

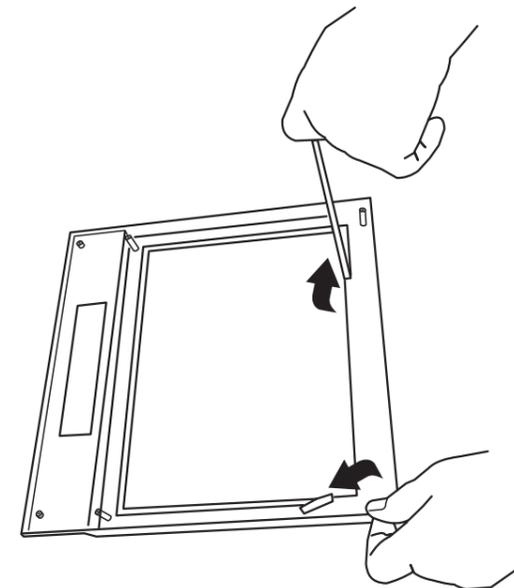
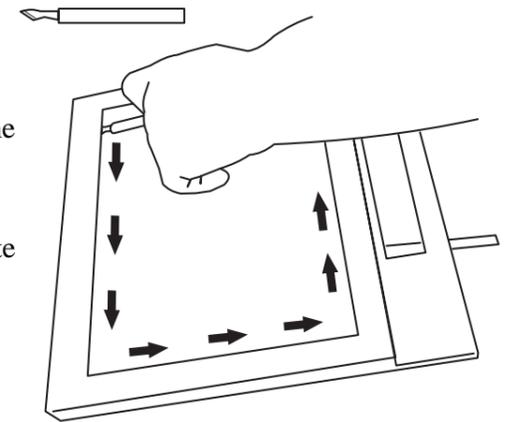
The manufacturer accepts no responsibility for any damage to personnel, or their property resulting from the carrying out of this procedure.

7

With the gasket frozen, use a sharp 'Craft knife' or similar to separate the touch screen from the gasket. (It is likely that some damage to the touch screen will occur during this process.)

Carefully, but firmly, press down on the touch screen to separate it from the cover's metal frame.

Discard the touch screen.



8

Carefully use a craft knife or small screwdriver blade to lift a portion of the remaining part of gasket away from the frame. Once loosened, it is normally possible just to pull the remainder away, as shown.

Once the gasket has been removed, ensure that the frame is clean, so that the new gasket can make good contact with the frame.