OM3 ENGINEERING MODEL HANDLING, CLEANING AND STORAGE

1. Introduction

The OM3 EM consists of one cable harness to interconnect OM1 and OM2. The harness is not intended to be vacuum compatible, although the Positronic connectors used are vacuum rated. These procedures relate only to the EM. A separate document will be issued for the FM. The harness does not need ESD protection.

2. Packing

The OM3 STM is single bagged in clean-room standard polythene packaging and positioned in its individual transport container.

3. Handling

The OM3 EM is not considered to be "clean" and although it must be handled carefully, it does not need to be handled with clean room gloves.
The OM3 EM contains no active electronics and therefore does not require any special ESD precautions.
From the mechanical point of view, the following precautions should be taken:

3.1 Connector covers should remain on the OM3 EM at all times when it is not in use.

3.2 Before cable installation for any operation or fit check, all connectors, both on the OM3 EM and on the mating connectors, should be visually inspected for damaged pins/sockets. It is recommended that all connectors be blown out with dry nitrogen before engagement. Before engagement, check the condition of screw-locks and jack-posts and after engagement, tighten the screw-locks to the specified torque of 0.4Nm, (NB only stainless steel screw-locks and jack-posts are approved for use on the XMM Project).

4. Cleaning

Particulate matter should be removed using an appropriate vacuum cleaner. No liquids shall be used for cleaning a wiring harness.

5. Storage

When not in use, it is recommended that the OM3 EM be single bagged in a clean-room bag, and put into its transport container.

6. Installation

To install the OM3 on the MSP:

1. First roughly place the two heat shrunk loops over the web element 3 and one heat shrunk loop over web element 2.
2. Connect P42,P43,P45 and P46.
3. Lace the three loops to the webs in the correct positions(all tie points must have a protective heat shrink area.)
4. Connect OM2 prime and redundant P01,P02 and P04 sub D connectors and tie harness to the three securing points on the OM2's.
5. Secure the rest of harness to the remaining tie points.

CHANGE RECORD

ISSUE	DATE	PAGES CHANGED	COMMENTS
01	4 June 1997	All New	
02	18 July 1997	All	Clarification of cleaning details.

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XMM Optical Monitor

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Document Number: XMM-OM/MSSL/SP/0142.02 18 July 1997

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