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High Speed Tap, Installation and Removal
Procedure

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Preface

Revision A issued the initial release of 36-02035 with ECO 36-964.

Revision B issued an updated format and General Editorial Update.

1.0 Purpose

This procedure describes the precautions and steps necessary to install and remove the ACIS high speed tap connector/cable assembly to/from the Detector Electronics Assembly.

2.0 References

99-01003	Handling for Static Sensitive Electronic Parts and Equipment
99-03002	Connector Mating and Demating Procedures
36-30200	Detector Electronics Assembly (DEA)
36-02027	Cleaning/Cleanliness Control for Electronic Assemblies

3.0 Procedures

3.1 Precautions

3.1.1 Detector Electronics

The Detector Electronics (DEA) is static sensitive. The requirements of MIT document 99-01003 (or equivalent) must be observed when mating and demating the high speed tap (HST) cable/connector.

3.1.2 DEA Certification

After the DEA has been certified per MSFC-SPEC-1238, the contamination control handling procedures of MIT document 36-02027 (or equivalent) must be observed.

3.1.3 HST Connector

When mating or demating the HST connector to the flight DEA, MIT procedure 99-03002 (or equivalent) must be observed. This includes recording each mate and demate cycle in the ACIS Mate/Demate Log.

3.1.4 HST Cover

When removing the HST cover, Two (2) #4-40 X .500" socket head cap screws must be removed. **These screws are not captive.** Care must be taken so that the screws are not dropped. These screws are flight hardware and will be needed, along with the HST cover and EMI gasket, for reinstallation after the HST cable/connector is demated, prior to flight,

3.2 Mating the High Speed Tap CABLE/CONNECTOR

3.2.1 HST Cover Removal

Remove the HST Cover, P/N 36-30219 and EMI Gasket, P/N 36-30220 by removing two (2) #4-40 X .500" socket head cap screws, P/N 36-30228 and two

(2) #4 flat washers, P/N 36-30224. Observe the precaution in 3.1.4 above. Bag the cover, gasket, screws, and washers in a clean bag to maintain MSFC-SPEC-1238 certification.

3.2.2 Inspection

Inspect both connectors to be mated per MIT document 99-03002.

3.2.3 Engage

Engage the 9 pin D subminiature plug, P/N 311P409-1P- B- 12 into the 9 pin D subminiature receptacle, P/N SND9F3S0T2G using the two (2) jack screws. Alternate turning the jack screws on the sides of the connector to avoid damage to the connector contacts. The jack screws must be snug but need not be torqued

3.2.4 Record

Record the HST connector mating in the ACIS mate/demate log.

3.3 Demating The High Speed Tap Cable/Connector

3.3.1 Disengage

Disengage the 9 pin D subminiature plug, P/N 311P409-1P-B-12 from the 9 pin D subminiature receptacle, P/N SND9F3S0T2g using the two (2) jack screws. Alternate turning the jack screws on the sides of the connector to avoid damage to the connector contacts

3.3.2 Install

Install the HST Cover, P/N 36-30219 and EMI Gasket, P/N 36-30220 by using two (2) #4-40 X .500" socket head cap screws, P/N 36-30228 and two (2) #4 flat washers, P/N 36-30224. Observe the precaution in 3.1.4 above. Torque the two (2) #4-40 X .500" socket had cap screws to five (5) inch pounds

3.3.3 Record

Record the HST connector demating on the ACIS mate/demate log.