

Rev.	ECO	Description	Author	Approved	Date
01	32-110	Initial Release for CDR	RFGoeke		3/31/06
02	32-207	Add purge outlet cover	RFGoeke		3/27/07

Remove/Install before Flight  
List

Dwg. No. 32-04007

Revision 02  
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## **Preface**

Revision 01 of this document is being released for CDR.

Revision 02 added the purge outlet port cover.

## **1 Introduction**

The flight hardware for the Cosmic Ray Telescope for the Effects of Radiation (CRaTER) instrument on the Lunar Reconnaissance Orbiter (LRO) is composed of a single assembly incorporating both radiation detector and all associated power, command, data processing, and telemetry electronics. There are 4 electrical connectors which interface with the Orbiter systems; there are no Electrical Ground Support Connectors.

There is a single gas purge inlet and single gas purge outlet for use when the instrument is on the ground. When purging the instrument with GN<sub>2</sub>, the outlet cover must be removed. When the instrument is not under continuous or at least daily purge, both inlet and outlet ports should be covered with the provided hardware. When mounted in the Orbiter, the gas purge inlet is permanently connected to the Orbiter purge manifold and launched in that configuration. Assuming that the gas purge in the Orbiter configuration is mostly continuous, the gas purge outlet cover may be permanently removed.

## **2 Red Tag Items**

There are no Red Tag, Remove Before Flight items associated with the CRaTER instrument.

## **3 Green Tag Items**

There are no Green Tag, Install Before Flight items associated with the CRaTER instrument.