

**9 June 1998**



**Maintenance**

**MODE 4 AND RADAR WARNING RECEIVER  
OPERATION**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction implements AFRSI 21-101, *Managing Aerospace Equipment Maintenance*. It assigns responsibility and establishes procedures to provide an operable MODE 4 and Radar Warning Receiver (RWR) on all unit aircraft for tactical missions. It applies to all personnel involved in the operation and maintenance of aircraft transponder and RWR equipment.

**SUMMARY OF REVISIONS**

This revision changes Para 2a #5 to 2b #1, changes Para a #6 to 2b #2, and changes Para 2 #6b to 2c. A (l) indicates revisions from the previous edition.

**1. Policy .** A comprehensive program is essential to ensure that a functional MODE 4 and RWR exists on all aircraft involved in tactical operation.

**2. Procedures :**

2.1. Avionics Flight Support (AVFS) will:

2.1.1. Key MODE 4, as directed.

2.1.2. The setting is noted on a 3x5 card located in front of the first page of AFTO Form 781A, Maintenance Discrepancy and Work Document, with the time set/recorded.

2.1.3. Provide dispatch capability, on short notice, to re-key MODE 4, as required.

2.1.4. Deploy personnel, equipment, and ensure necessary codes are available for proper MODE 4 operation on all tactical deployments.

2.2. ECM Section will:

- 2.2.1. Maintain the ability to test aircraft for proper RWR operation via portable test equipment on tactical sorties, as directed by Operations.
- 2.2.2. Deploy personnel and equipment necessary to ensure proper operation of RWR on all tactical deployments.
- 2.2.3. The 706 Fighter Squadron (FS), Electronic Countermeasures Pilot (ECP) monitors operational status of assigned Aircraft Mode 4 and RWR equipment.

### 3. Verification:

#### 3.1. MODE IV:

- 3.1.1. The AVFS Section checks MODE 4 operations using transponder test set upon request all first launch aircraft, Saturday of the UTAs will be checked at the throat of AFRC Aircraft Parking Plan.
- 3.1.2. This test is performed using appropriate technical data.
- 3.1.3. Switch settings are verified with the pilot via intercom, when required.

#### 3.2. RWR:

- 3.2.1. The ECM Section checks aircraft RWR operation using available test equipment on all first launch aircraft, Saturday of the UTAs.
- 3.2.2. This test is performed at the throat of the AFRC aircraft parking ramp using local checklist LCL-926LG-60-4.

#### 3.3. Pilots:

- 3.3.1. Pilot is reminded to write up any system for failure to respond properly.

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Commander