# Radio Communications

## RCTS-001 Test System

NSN: 6625-01-432-8369



The RCTS-001 provides "State of the Art" capabilities for semi-automated testing of SINCGARS tactical communications

### RCTS-001 Radio Test System

The RCTS-001 (AN/GRM-122) is the Radio Test System that is currently being fielded for use to verify, test and repair the SINCGARS Radios and their associated LRUs. The RCTS-001 (AN/GRM-122) SINCGARS Test System is made up of the general purpose TS-4317 Communications Test Set (also known as the FM/AM-1600) in association with the J-4843A Generic Applique Housing with RPM-001 (PL-1536) SINCGARS RPM in support of SINCGARS Ground and Airborne Radio System verification, testing and repair. The RPM-001 provides the interface functions necessary for level translation, signal conditioning, data communication and data processing between the TS-4317 and the SINCGARS LRUs. Through this interface the Radio's receiver and transmitter functions can be fully exercised and tested in both single channel mode and frequency hopping mode per pre-defined test criteria. All SINCGARS LRUs listed (reference detailed list opposite) can be verified, tested and repaired when used in conjunction with the ON-373B Ground Radio Kit (Cables, Repair Manuals, Special Tools, etc.) and ON-AV1M Airborne Radio Kit.

| | |
|---|---|
| Ground Radios | Loudspeaker |
| Airborne Radios | Dual RF PA |
| Remote Controls | Single Radio Mount |
| Fill Devices | Amplifier Adapters |
| Control Monitors | Remote Control |
| Unit | RF Amplifiers |
| Y Cable | Battery Box |
| FH Mux | Battery Tray |

### RPM-001 (PL-1536) SINCGARS RPM Accessories

| Aeroflex Accessory Number | Equivalent Military Model No | Description |
|---|---|---|
| J-1601AR | (J-4843AR) | J-4843 to J-4843A/PL-1536 upgrade Kit |
| AC8340 | | Antenna Matching Network for RPM-001 |
| TF-119A | (TF-119A) | BIT Test Adapter for RPM-001 |
| LK-122 | | Lockout Key for RPM-001 |
| ON-373B | (ON-373B) | SINCGARS Maintenance Group - ASIP |
| ON-AVIM | | SINCGARS Maintenance Group - Airborne |
| AAJ109 | | SCSI to USB Adapter |

### SCSI to USB Adapter Module

The SCSI to USB adapter module connects to the SCSI harness between the TS-4317 and the J-4843A. It enables the operator to load and troubleshoot radios through the use of USB thumb drives. Additionally, it will allow the user to update the RCTS-001 (TS-4317, J-4843A and PL-1536) software through the USB port.

For the very latest specifications visit **www.aeroflex.com**

| LRU | G/A (1) | DESCRIPTION | VERSION | MANUFACTURER |
|---|---|---|---|---|
| RT-1439 | G | RT | Non-ICOM | ITT |
| RT-1523 | G | RT | ICOM | ITT |
| RT-1523A | G | RT | ICOM | GDLS |
| RT-1523B | G | RT | ICOM PI/Cosite | ITT |
| RT-1523C | G | RT | ICOM SIP | ITT |
| RT-1523D | G | RT | ICOM SIP | GDL |
| RT-1523E | G | RT | ASIP | ITT |
| RT-1476 | A | RT | | ITT |
| RT-1476A | A | RT | ICOM Capable | ITT |
| RT-1476C | A | RT | PI | ITT |
| RT-1477 | A | RT Remote | | ITT |
| RT-1477A | A | RT Remote | ICOM Capable | ITT |
| RT-1477C | A | RT Remote | PI | ITT |
| RT-1478 | A | RT 1553 | | ITT |
| RT-1478A | A | RT 1553 | ICOM Capable | ITT |
| RT-1478C | A | RT 1553 | PI | ITT |
| RT-1478D | A | RT 1553 | SIP | ITT |
| C-11466 | A | Remote control | | ITT |
| C-11466A | A | Remote control | ICOM | ITT |
| MX-10579 | G | Fill Device | Non-ICOM | ITT |
| MX-18290 | G | Fill Device | ICOM | ITT |
| C-11291 | G | Control-Monitor | | ITT |
| C-11291A | G | Control-Monitor | | GDLS |
| AM-7238 | G | RF Amplifier | | ITT |
| AM-7238A | G | RF Amplifier | | GDLS |
| AM-7238B | G | RF Amplifier | | ITT |
| CY-8664 | G | Battery Tray | | ITT |
| CY-8523A | G | Battery Box | | ITT |
| CY-8523B | G | Battery Box | | GDLS |
| CY-8523C | G | Battery Box | | (TBD) |
| LS-671 | G | Loudspeaker | | ITT |
| MT-6353 | G | Dual RF PA Mount | | ITT |
| MX-10862 | G | Single Radio Mount | | ITT |
| AM-7239 | G | Amplifier Adapter | | ITT |
| AM-7239A | G | Amplifier Adapter | | GDLS |
| AM-7239B | G | Amplifier Adapter | Dual Xmit | ITT |
| AM-7239C | G | Amplifier Adapter | SIP | ITT |
| AM-7239D | G | Amplifier Adapter | SIP | GDLS |
| AM-7239E | G | Amplifier Adapter | ASIP | ITT |
| C-11561 | G | Remote Control Unit | | ITT |
| CX-13417 | G | Y Cable | | ITT |
| TD-1456 | G | FH Mux | | XETRON |

Note (1): G/A Denotes Aircraft (A) or Ground (G) LRU Type.

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