

# 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

<i>Aeroflex Accessory Number</i>	<i>Equivalent Military Model No</i>	<i>Description</i>
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-AV1M		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.

LRU	GA (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 <sup>1</sup>: G/A Denotes Aircraft (A) or Ground (G) LRU Type.

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