

# Military Communications

## RCTS-002HQ Radio Test Set

(AN/ARM-204A)

NSN 6625-01-497-5073



**AEROFLEX**  
A passion for performance.

The RCTS-002HQ provides capabilities for semi-automated testing of UHF and VHF HAVEQUICK II and tactical communications.

The RCTS-002HQ Radio Test System is made up of the general purpose TS-4532\* Communication Test Set in association with the J-4843A Generic Appliance Housing with RPM-002HQ (PL-1538A) and PS-001 (PP-8468) Generic LRU Power Supply. The RCTS-002HQ Radio Test System is a self-contained, transportable, semi-automated Test System that may be used for a "go/no-go" evaluation, full functional testing and troubleshooting. The basic Test System provides the capability to test in the VHF, UHF frequency bands; AM and FM modulation waveforms; and MIL-STD-1553 interfaces. All LRUs listed can be verified, tested and repaired when used in conjunction with the Maintenance Group (Cables, Repair Manuals, Special Tools, etc.)

Note: RCTS-002HQ requires an export license outside of the US.

### RPM-002HQ (PL-1538A) RSC/AIRFORCE RPM Accessories

Accessory Number	Corresponding Military No	Description
TF-204A	(TF-204A)	BIT Test Adapter for RPM-002HQ
LK-204		Lockout Key for RPM-002HQ
ON-RSC		Maintenance Group for RPM-002HQ (Custom Configured)

The RPM-002HQ (PL-1538A) is used with the general purpose TS-4532\* Communication Test Set and PS-001 (PP-8468) Generic LRU Power Supply to support LRU verification, testing and repair.

### PS-001 (PP-8468) Generic LRU Power Supply

The PS-001 (PP-8468) connects to the bottom of the RCTS configuration to supply primary power for Units Under Test (UUT) and, in some cases, to the J-4843A and RPM-002HQ (PL-1538A). The PS-001 (PP-8468) is capable of supplying programmable voltage levels from 3 to 30 V at up to 20 A. Additional voltages are provided for secondary needs.

### PS-001 (PP-8468) Generic LRU Power Supply Configurations

Supply Output	Output Voltage (VDC)	Line Regulation %	Total Regulation %	Peak Ripple (mV)	Minimum Load(A)	Typical Load(A)	Maximum Load(A)
Switched Outputs:							
1	3.00 - 14.99	±2.0 (NL-FL)	±7 (NL-FL)	<220	0.8	N/A	10
1	15.00 - 30.00	±2.0 (NL-FL)	±7 (NL-FL)	<220	0.8	N/A	20
2	2.50 - 5.00	±8.0 (NL-FL)	±12 (NL-FL)	<70	0.8	N/A	2
3	2.00 - 28.00	±8.0 (NL-FL)	±12 (NL-FL)	<70	0.8	N/A	1
4	6	±2.0 (NL-FL)	±4 (NL-FL)	<70	0.5	0.5	1
5	12	±2.0 (NL-FL)	±10 (NL-FL)	<70	0.2	0.35	1
Continuous Outputs:							
6	24	±2.0 (10%FL-FL)	±8(10%FL-FL)	<70	0.1	1.5	1.8
7	5	±2.0 (10%FL-FL)	±4(10%FL-FL)	<70	2.2	3	4
8	15	±2.0 (10%FL-FL)	±4(10%FL-FL)	<70	0.75	1	2
9	15	±2.0 (10%FL-FL)	±4(10%FL-FL)	<70	0.075	0.1	0.5

\* same as TS-4317

RPM-002HQ (PL-1538A) RSC/Air Force LRUs Supported

RADIO SYSTEM	LRU	G/A <sup>1)</sup>	DESCRIPTION	VERSION	MANUFACTURER
ARC-222	RT-1704	A	RT SINCGARS	Remote (1553 capable)	Raytheon Systems
	C-12319	A	Control Set		Raytheon Systems
ARC-164	RT-1145F	A	RT UHF-AM	Remote HQ I (1553)	Raytheon Systems
	RT-1167	A	RT UHF-AM	Panel (USAF)	Raytheon Systems
	RT-1167B	A	RT UHF-AM	Panel (ARMY)	Raytheon Systems
	RT-1167C	A	RT UHF-AM	Panel (ARMY) HQ I	Raytheon Systems
	RT-1167F	A	RT UHF-AM	Panel (ARMY) HQ I	Raytheon Systems
	RT-1168	A	RT UHF-AM	Panel (USAF)	Raytheon Systems
	RT-1168A	A	RT UHF-AM	Panel (USAF)	Raytheon Systems
	RT-1168B	A	RT UHF-AM	Panel (USAF)	Raytheon Systems
	RT-1168C	A	RT UHF-AM	Panel (USAF) HQ I	Raytheon Systems
	RT-1504	A	RT UHF-AM	Remote HQ II	Raytheon Systems
	RT-1505	A	RT UHF-AM	Panel (USAF) HQ II	Raytheon Systems
	RT-1505A	A	RT UHF-AM	Panel (USAF) HQ II (LCD)	Raytheon Systems
	RT-1505C	A	RT UHF-AM	Panel (USAF) HQ I	Raytheon Systems
	RT-1518	A	RT UHF-AM	Panel (Army) HQ II	Raytheon Systems
	RT-1518C	A	RT UHF-AM	Panel (Army) HQ II (LCD)	Raytheon Systems
	RT-1614	A	RT UHF-AM	Remote Mount - 1553	Raytheon Systems
	C-9533A	A	Control Set	HQ (Fill Port)	Raytheon Systems
	C-9682	A	Control Set	HQ	Raytheon Systems
C-9682A	A	Control Set	HQ	Raytheon Systems	
PRC-113	RT-1319	G	RT	Manpack	Raytheon Systems
	RT-1319B	G	RT	Manpack HQ	Raytheon Systems
VRC-83	VRC-83	G	RT VHF/UHF	Vehicular Transceiver	Raytheon Systems
	AM-7176	G	RF Amp	Non-HQ	Raytheon Systems
	AM-7176A	G	RF Amp	HQ	Raytheon Systems
	MXF-430(V)3	G	RF Amp	UK MOD	Raytheon Systems
	MXF-430(V)9	G	RF Amp	UK MOD	Raytheon Systems
ARC-186	RT-1000	A	RT VHF-FM	Airborne VHF Transceiver	Rockwell/Collins
	RT-1001	A	RT VHF-FM	Airborne VHF Transceiver	Rockwell/Collins
	RT-1299	A	RT VHF-FM	Airborne VHF Transceiver	Rockwell/Collins
	RT-1300	A	RT VHF-FM		Rockwell/Collins
	RT-1300A	A	RT VHF-FM		Rockwell/Collins
	RT-1300B	A	RT VHF-FM		Rockwell/Collins
	RT-1300C	A	RT VHF-FM		Rockwell/Collins
	RT-1354	A	RT VHF-FM		Rockwell/Collins
	C-1000	A	Remote Control		Rockwell/Collins
	C-10604	A	Remote Control		Rockwell/Collins
C-10605	A	Remote Control		Rockwell/Collins	
C-10606	A	Remote Control		Rockwell/Collins	
ARC--232	RT-1817	A	RF UHF/VHF	UK MOD	Raytheon Systems
	RT-1818	A	RF UHF/VHF	UK MOD	Raytheon Systems

Note <sup>1)</sup>: G/A Denotes Aircraft (A) or Ground (G) LRU type

**EXPORT CONTROL:**

*This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States.*

**EXPORT WARNING:**

*Aeroflex's military products are controlled for export under the International Traffic in Arms Regulations (ITAR) and may not be sold or proposed or offered for sale to certain countries including: Belarus, Burma, China, Cuba, Haiti, Iran, Liberia, Libya, North Korea, Somalia, Syria, Sudan, and Vietnam. See ITAR 126.1 for complete information.*

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