

The IFR RCTS-002 provides “State of the Art” capabilities for semi-automated testing of UHF and VHF HAVEQUICK II and SINCGARS tactical communications



The RCTS-002 RadioTest System is made up of the general purpose FM/AM-1600 (TS-4317) Communication Test Set in association with the J-1601A (J-4843A) Generic Applique Housing with RPM-002 (PL-1538) and PS-001 (PP-8468) Generic LRU Power Supply. The RCTS-002 RadioTest 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 and HF frequency bands; AM, FM and FSK modulation waveforms; and MIL-STD-1553 interfaces. All LRUs listed below (reference detailed list opposite) can be verified, tested and repaired when used in conjunction with the Maintenance Group (Cables, Repair Manuals, Special Tools, etc.) supplied by Raytheon.

Ground Radios	Airborne Radios
Handheld Radios	Remote Controls
RF Amplifiers	Single Distribution Unit

RPM-002 (PL-1538) RSC/AIRFORCE RPM Accessories

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

The RPM-002 (PL-1538) is used with the general purpose FM/AM-1600 (TS-4317) Communication Test Set and PS-001 (PP-8468) Generic LRU Power Supply to support LRU verification, testing and repair.

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

RADIO SYSTEM	LRU	G/A ⁽¹⁾	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-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-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
TAC G/A (UK)	MXF-430UK	A	RT UHF/VHF		Raytheon Systems
ARC-186	RT-1299	A	RT	Airborne VHF Transceiver	Rockwell/Collins
	RT-1300	A	RT		Rockwell/Collins
	RT-1300A	A	RT		Rockwell/Collins
	RT-1300B	A	RT		Rockwell/Collins
	RT-1300C	A	RT		Rockwell/Collins
	RT-1354	A	RT		Rockwell/Collins
	C-10604	A	Remote Control		Rockwell/Collins
	C-10605	A	Remote Control		Rockwell/Collins
	C-10606	A	Remote Control		Rockwell/Collins

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

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-1601A (J-4843A) and RPM-002 (PL-1538). 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

CHINA

Tel: [+86] (10) 6467 2823

Fax: [+86] (10) 6467 2821

EUROPE NORTH

Tel: [+44] (0) 1438 742200

Fax: [+44] (0) 1438 727601

EUROPE SOUTH

Tel: [+44] (0) 1438 742200

Fax: [+44] (0) 1438 727601

FRANCE

Tel: [+33] 1 60 79 96 00

Fax: [+33] 1 60 77 69 22

GERMANY

Tel: [+49] (8131) 29260

Fax: [+49] (8131) 2926130

HONG KONG

Tel: [+852] 2832 7988

Fax: [+852] 2834 5364

LATIN AMERICA

Tel: [+1] (972) 899 5150

Fax: [+1] (972) 899 5154

SCANDINAVIA

Tel: [+45] 9614 0045

Fax: [+45] 9614 0047

SPAIN

Tel: [+34] (91) 640 11 34

Fax: [+34] (91) 640 06 40

UNITED KINGDOM

Tel: [+44] (0) 1438 742200

Toll Free: [+44] (0800) 282 388 (UK only)

Fax: [+44] (0) 1438 727601

USA

Tel: [+1] (316) 522 4981

Toll Free: [+1] (800) 835 2352 (US only)

Fax: [+1] (316) 522 1360

email **info@ifrsys.com**

web **www.ifrsys.com**

As we are always seeking to improve our products, the information in this document gives only a general indication of the product capacity, performance and suitability, none of which shall form part of any contract. We reserve the right to make design changes without notice. All trademarks are acknowledged. Parent company IFR Systems, Inc. © IFR 2002.

Part No. 46891/136

Issue 1

06/2002

