

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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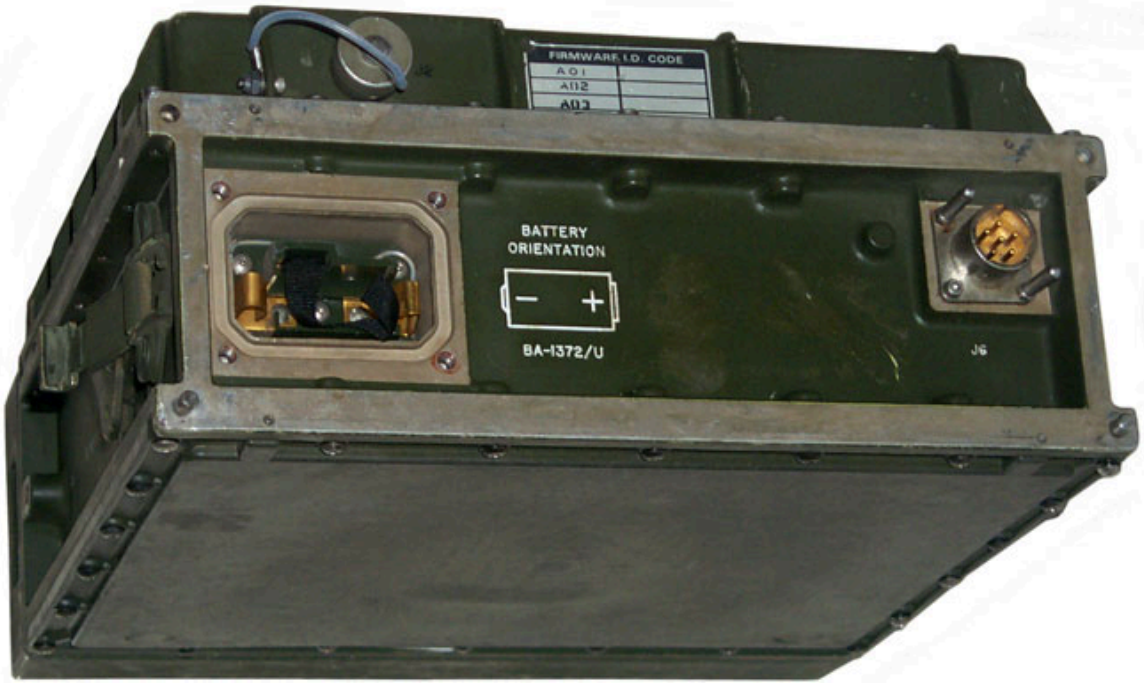
Visit our website - *Click HERE*

PLRS EPLRS Position Location Reporting System

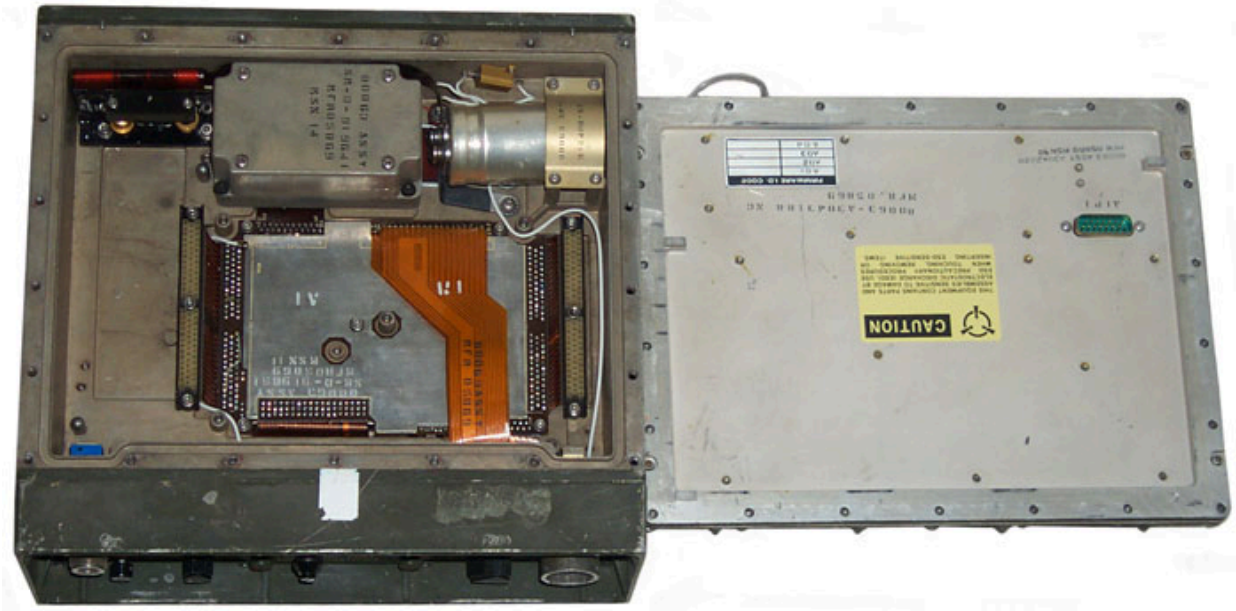
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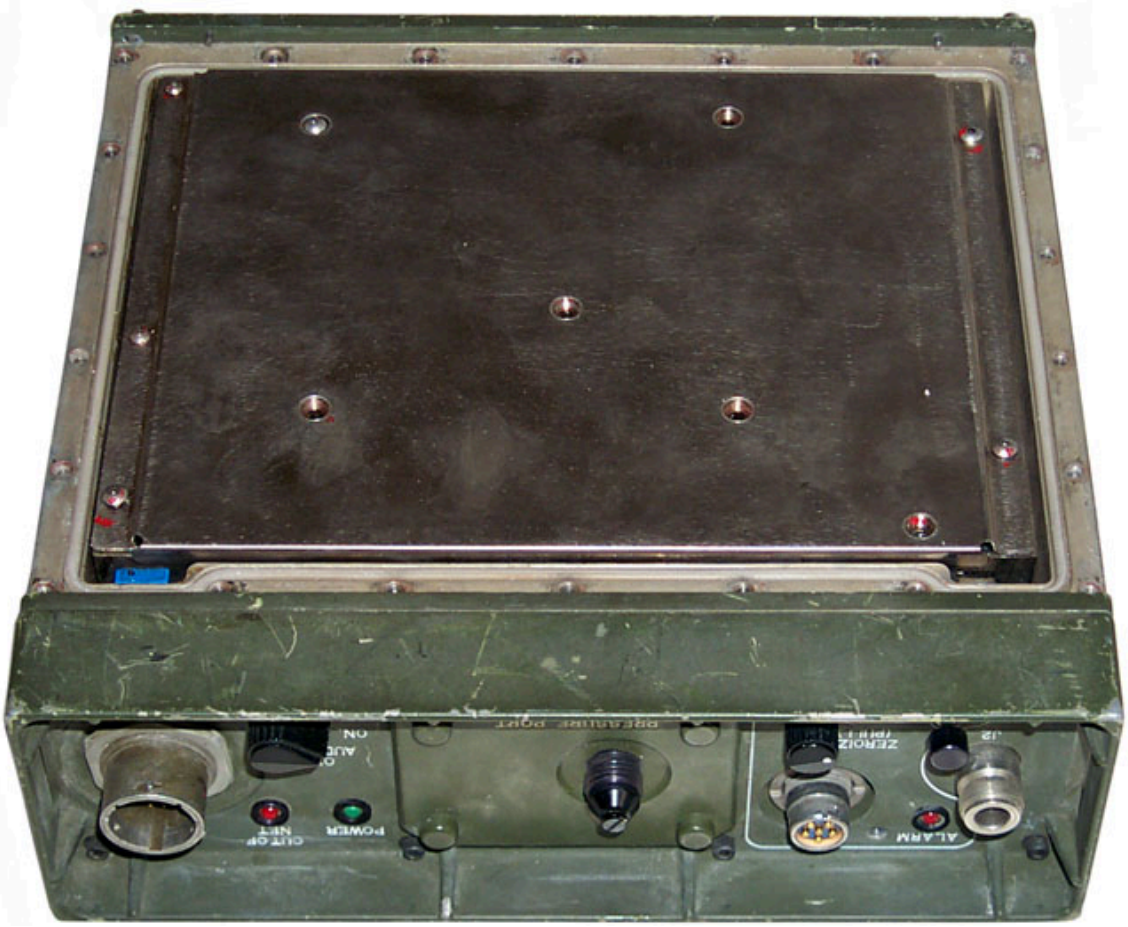
Background
Components
Configurations



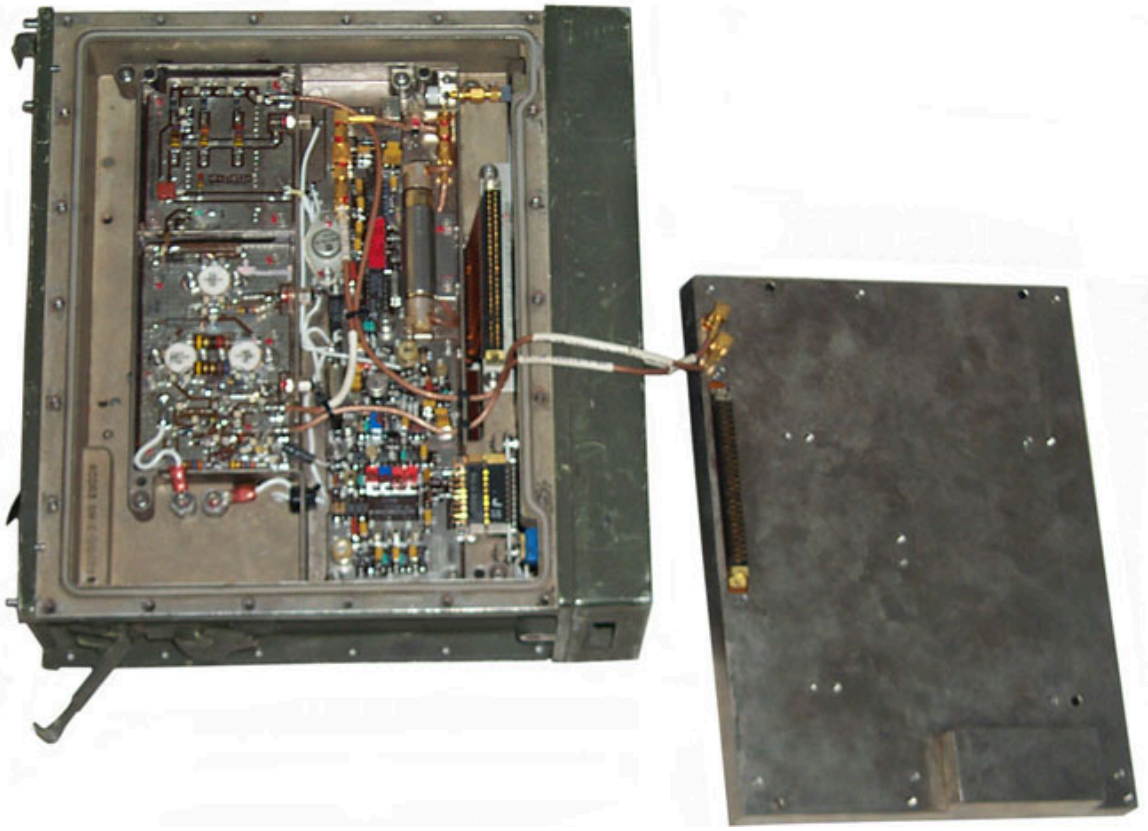



FIRMWARE I.D. CODE


CAUTION


POWER
ALARM





Background

Operaten above the UHF-AM aircraft band at in the 420 to 450 MHz range with a direct sequency spread spectrum TDMA signal that's 3 Mhz wide. Note this is not frequency hopping like in the SINCGARS radios.

Related systems are the Near Term Digital Radio (aka: Near Term Data Radio, NTDR), Joint Tactical Information Distribution System (JTIDS) uses LINK 16 TDMA, Multifunction Information Distribution System (MIDS) also a LINK 16 system, Joint Tactical Radio System (JTRS) covers 2 to 2,000 MHz.

Components

Receiver-Transmitters

AN/TSQ-129 PLRS (FAS: PLRS)

RT-1720
- This radio was made in versions:
- RT-1720A(C)/x where x is between no letter and G
- RT-1720B(C)/x "
- RT-1720(C)C/x "

RT-1573/x EPLRS
RT-1678/x EPLRS
RT-1719/x EPLRS

Control Head

Marked:
Part No. A3271224
NSN: 5895-01-452-1222
Contract No. DAAB07-98-C-C618
Mfr: White Electronic designs Corp -
CAGE Code: ?9479 (internet shows 54230?)
Ser. No. 0005xx



Configurations

PSQ-4 Man Pack

C-10830/PSQ-4 User Readout (URO) or ruggedized Portable Computer (PC) i.e. CF-28 Toughbook
SM-D-912805 URO Cable Assy

AS-3448/PSQ-4



AS-3448/PSQ-4
420 - 450 MHz
Antenna
80063
A3005021
MFR 57010
NSN 5825-01-106-9123
Spec A3005026
Contract DAAB07-83-C-J031

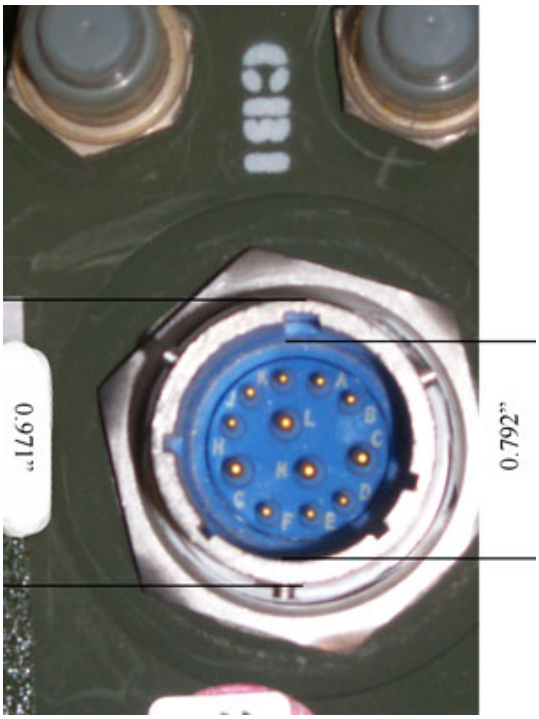


A3043298 Installation Kit
MP-RS Man Pack Radio Set
CY-7871A/PSQ-4 (p/n: A3159263) Dual BA-5590 type Battery Box

VSQ-2 Ground Vehicle

SV-RS Surface Vehicle Radio Set
Antenna: AS-3449/VSQ-1
PP-7641/VSQ-1 Power Supply (9.5 pounds!)





What is the mating Connector?

GRC-229 Grid Reference

p/n: A3043143
NSN: 5895-01-277-4806

AN/GRC-229
p/n: A3043145
NSN: 5895-01-279-5452

AN/GRC-229C
p/n: A3275955
NSN 5895-01-462-8405

GR-RS Grid Reference Radio Set

AN/PSM-45(*) Radio Mount

AN/ASQ-177 Airborne
AV-RS Airborne Vehicle Radio Set
RT-1343 or RT-1344
ASQ-177 Voltage Regulator

Pilot Control Display Panel (PCDP)

Manuals

TM 11-5825-283-10, Operator's Manual, dated 1 March 1999
TM 11-5825-283-20&P Service & Parts Manual,

Patents

5164959 Digital equalization method and apparatus (Hughes) - PLRS & JTIDS developed by Hughes (ph 60)
many patents are called by and are called by newer patents

5166694 Vehicle location system having enhanced position location processing (Hughes) - EPLRS over determined hyperbolic system
5428603 Synchronous time division multiple access interrogate-respond data ...
6232909 Communication network optimization tool (Army) - EPLRS "909" patent
6844841 Radio frequency link performance tool process and system (Army)
7586891 Communication network optimization tool

Sources

Ebay for the RT
BPB Surplus for the Battery Box
Mike Murphy for the User Readout & PP-7641 Power Adapter

Links

Army seeks 'perfect' radio, creates boondoggle - problems with Joint Tactical Radio System (JTRS)

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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