Sonobuoy system

Based on ICOM R-8500 receiver

ANTENNA
MODEL: LS 4220
S/N: 34114
MFR.: LONE STAR ELECTRONICS, TEXAS, USA

CABLE SPLICE
SOLDERED. NEED HEAT-SHRINK WITH GLUE, AND/OR SELF-VULCANIZING TAPE.

ANTENNA CABLE
MOD.: RG-213U, OR HI-1000
SUPPLIER (BOTH): ELFA, www.elfa.se
HI-1000 HAS LOWER ATTENUATION, BUT IS MORE DIFFICULT TO HANDLE.

N-CONNECTOR
FOR HI-1000 CABLE: USE CONNECTOR NI-H100, ELFA P/N: 46-074-12

N-CONNECTOR
ITEM 11, PAGE 5 OF "INSTRUCTION MANUAL, COMMUNICATION RECEIVER IC-R8500"

SIGNAL OUTPUT
ITEM 4, PAGE 5 OF "INSTRUCTION MANUAL..."
RECEIVER HAS BEEN MODIFIED, REF. FILE: R8500-modification.html
NOTE: ON FRONT PANEL, FM-MODE (BW=12kHz) MUST BE SELECTED.

POWER SUPPLY INPUT
ITEM 7, PAGE 5 OF "INSTRUCTION MANUAL..."
NOTE: JUMPER CONNECTOR MUST BE USED IN ITEM 5 ON THE REAR PANEL, REF. PAGE 5 OF THE "INSTRUCTION MANUAL..."

ICOM COMMUNICATION RECEIVER IC-R8500

AC ADAPTER
ICOM P/N: AD-55A
INPUT: 230 Vac, 50Hz
OUTPUT: 16 Vdc, MAX. 1.5 A, 24 VA

ANTI-alias filter(s)
MFR.: Krohn-Hite
MOD.: 3700

Gain block

Signal cable, tag "SON-1"
Phono - BNC connector

Signal output

Recording system
DIGITIZER / ANALOG TAPE RECORDER.
SHOULD HAVE OVER-SAMPLING, DIGITAL FILTERING AND DECIMATION, IN ORDER TO EASE ANTI-ALIAS FILTER REQUIREMENTS (CAN ALSO HAVE FILTER/DECIMATION IN LATER PROCESSING STAGE).
NOTE: RECORDING SYSTEM NOT SUPPLIED FROM UNIVERSITY OF BERGEN.

University of Bergen

Inst. of Solid Earth Physics

OM, 27 Nov, 2002

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