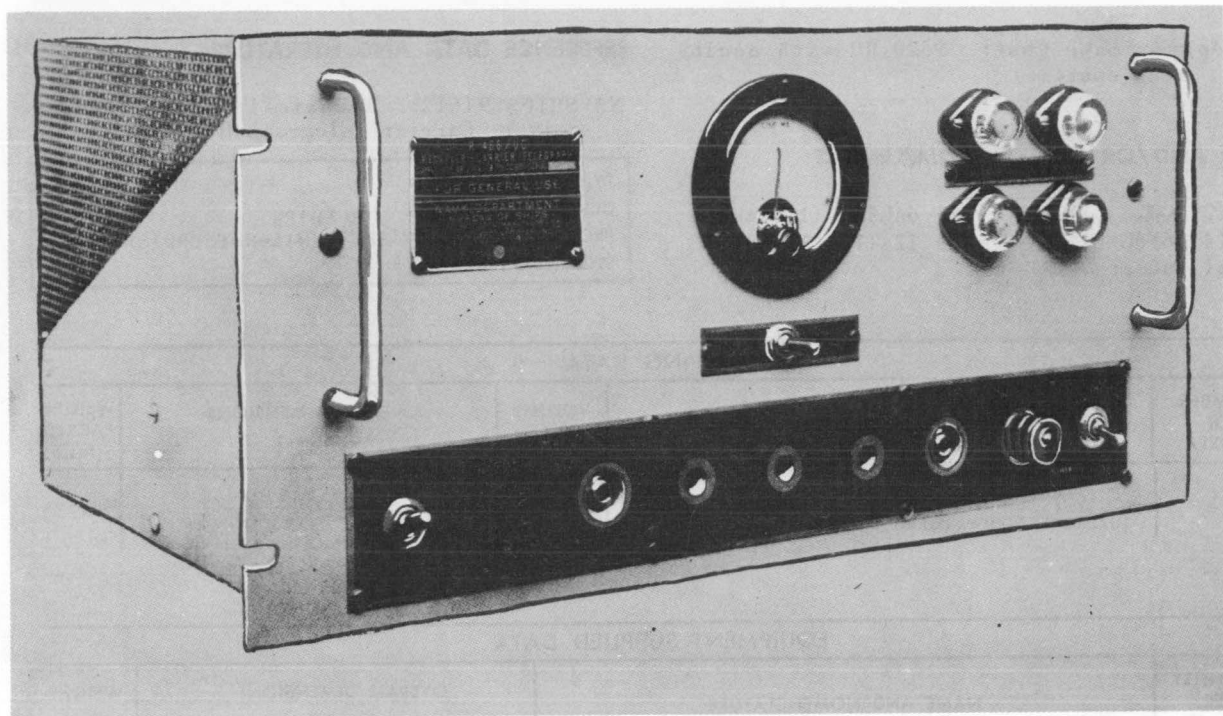


December 1956

RECEIVER, CARRIER TELEGRAPH**R-466/UC***Receiver, Carrier Telegraph R-466/UC***FUNCTIONAL DESCRIPTION**

The R-466/UC is capable of accepting an on-off tone telegraph signal and emitting a corresponding direct current signal.

The Receiver is capable of keying a 20 to 60 ma neutral telegraph loop with battery supplied from the Receiver, a 20 to 60 ma neutral telegraph loop with battery supplied from the loop, a 30 ma polar telegraph loop with battery supplied from the Receiver.

Transportation of the on-off tone telegraph signal into a corresponding direct current signal is accomplished by electronic means. The on-off tone telegraph signal is rectified and applied to trigger circuits which key the output of the Receiver.

The Receiver functions as an individual unit with a self-contained power supply.

No field changes in effect at time of preparation (26 July 1956).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 600 ohms balanced or unbalanced, for on-off tone 400 to 8000 cps.

OUTPUT KEYING: 20 to 60 ma neutral remote battery, 20 to 60 ma neutral local battery, 30 ma polar local battery, either side of

ground may be grounded.

OUTPUT DISTORTION: Correction to zero for $\pm 20\%$ distortion: at input.

INPUT LEVEL: The input circuit is capable of adjustment to signals at any level in the range from -24 to $+10$ dbm. Input level variations of ± 7.5 dbm will be tolerated during operation.

INPUT KEYING SPEED: 20 to 200 dot cycles (equivalent to 60 to 600 wpm operation). Higher keying speeds may be handled if input level variations are not over ± 5 dbm.

INPUT TONE FREQUENCY: 400 to 8000 cps. Tone frequencies above 2000 cps are desirable to minimize fortuitous distortion. This is especially true for higher keying speeds.

OPERATING POWER REQUIREMENTS: 115 or 230 v, 50 to 60 cps, 150 w.

VISUAL OPERATION INDICATOR: Indicator light on front panel. Meter for dbm level and output current.

MANUFACTURER'S OR CONTRACTOR'S DATA

CGS Laboratories, Inc. Stamford, Conn.
Contract NObsr 52314, dated 25 February 1952.

R-466/UC

RECEIVER, CARRIER TELEGRAPH

December 1956

Approximate Cost: \$620.00 with equipment spares.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91612: Technical Manual for Receiver, Carrier Telegraph R-466/UC.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) OB2 (1) 5U4G (1) 6AL5W (1) 6AU6
(4) 6Y6G (1) 6X4W (2) 12AT7 (3) 12AU7

Total Tubes: (15)

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| TYPE CLASSIFICATION DESIGN COGNIZANCE BUSHIPS PROCUREMENT COGNIZANCE MIL-R-15890(SHIPS) STOCK NO. |
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SHIPPING DATA

| NUMBER OF BOXES | CONTENTS AND IDENTIFICATION | VOLUME (Cu.Ft.) | OVERALL DIMENSIONS (inches) | WEIGHT PACKED (lbs.) |
|-----------------|--|-----------------|-----------------------------|----------------------|
| 1 | Receiver, Carrier Telegraph R-466/UC Equipment Spare Parts Carton | 9.25 | 18 X 24 X 37 | 94.5 |

EQUIPMENT SUPPLIED DATA

| QUANTITY PER EQUIPT | NAME AND NOMENCLATURE | OVERALL DIMENSIONS (inches) | WEIGHT (lbs.) |
|---------------------|---|-----------------------------|---------------|
| 1 | Receiver, Carrier Telegraph R-466/UC | 8-23/32 X 14-3/8 X 19 | 36.5 |
| 1 | Equipment Spare Parts Carton | 8 X 8 X 12 | 24 |
| 2 | Technical Manuals | | |