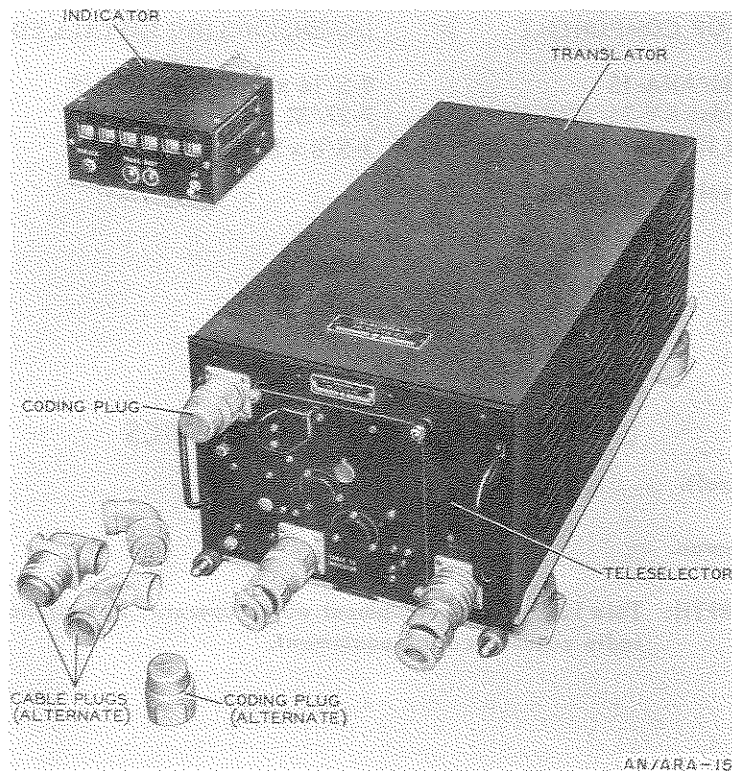


STATUS: Standard
 CLASSIFICATION OF EQUIPMENT: Confidential
 USING SERVICE: Navy
 DATE OF THIS SHEET: 29 May 52

AN/ARA-15

IMPULSE TRANSLATING EQUIPMENT



Impulse Translating Equipment AN/ARA-15 is installed in aircraft to automatically decode and acknowledge a-m signals received from Experimental Impulse Keying Equipment CXJV, (shipborne or shore station equipment). It is used in conjunction with radio communication equipment of the aircraft and of the ship, to translate and visually display a coded message. The visual message consists of six ideograms or symbols. It is designed for use with such equipment as Radio Set AN/ARC-1.

This equipment consists essentially of a selector-decoder, a selector, and an indicator unit.

The selector-decoder converts audio tones into d-c impulses, and the indicator unit converts these d-c impulses to visual messages, and automatically causes transmission of an acknowledgment signal by the aircraft's transmitter to the sending station, indicating either correct or incorrect receipt of the message.

A manual control is provided to enable the operator to answer a request-for-acknowledgment signal from the sending station. The selector-decoder automatically determines whether the received message is intended for the particular equipment; each sending and receiving station has individual code numbers.

| | |
|-------------------------------|--|
| AN/ARA-15 | INSTRUCTION LITERATURE: CO-NavAer 16-30ARA15-507 |
| | CLASSIFICATION OF EQUIPMENT: Confidential |
| IMPULSE TRANSLATING EQUIPMENT | USING SERVICE : Navy DATE OF THIS SHEET : 29 May 52 |

MAJOR COMPONENTS

| QUANT | NAME OF COMPONENT | DIMENSIONS (IN) INSTALLED | WEIGHT (LBS) |
|-------|-------------------------------|---------------------------|--------------|
| 1 | Selector CV-40/ARA-15 | 9-5/16 x 11-7/16 x 25-3/8 | 23.2 |
| *1 | Selector Decoder KY-26/ARA-15 | 7-27/32 x 10-1/4 x 8-5/16 | 11.3 |
| 1 | Indicator Unit ID-215/ARA-15 | 2-5/8 x 5-3/32 x 6-1/32 | 2.77 |

*Mounted in selector chassis.

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Aircraft.

INSTALLATION: Airborne.

CAN COMMUNICATE WITH: This is auxiliary equipment which operates in conjunction with primary radio communication equipment.

TECHNICAL CHARACTERISTICS

TYPE OF SIGNAL: AF (coded).

TYPE COMMUNICATION CIRCUITS: Composite.

CONTROLS: Manual acknowledgment-of-signal control; ON-OFF switch.

POWER REQUIREMENTS: 318 w, 26.5 v, dc.

PHYSICAL CHARACTERISTICS

Impulse Translating Equipment AN/ARA-15 measures 9-5/16 x 16-11/16 x 25-3/8 inches.