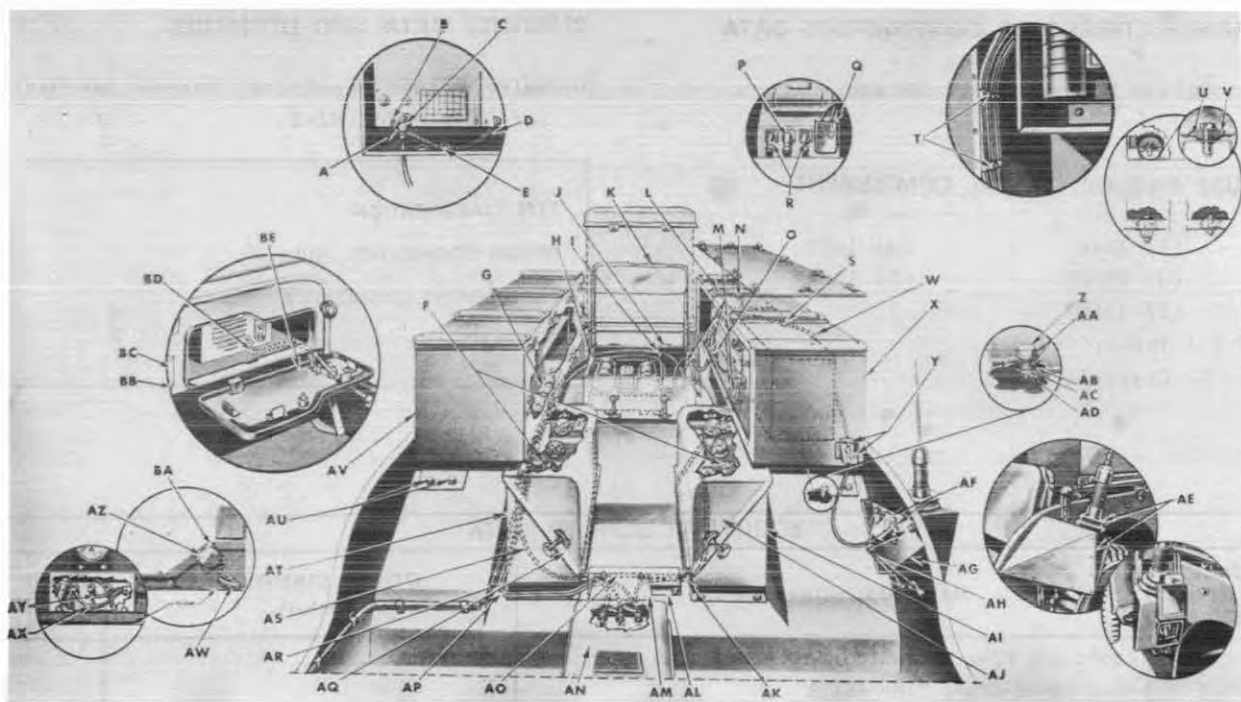


RADIO SET



Radio Set MZ-2

FUNCTIONAL DESCRIPTION

The Navy Model MZ-2 is designed as a complete radio transmitting and receiving set. It is designed for use in portable and mobile services. It was designed to be installed in a Willys Model MB 1/4 Ton 4 X 4 Truck. However, it may be used in other services where severe vibration and shock may be encountered.

No field changes in effect at time of preparation (20 February 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TRANSMITTER CHARACTERISTICS

TYPE OF SIGNALS EMITTED: CW or voice modulated.

NUMBER OF BANDS: 3 bands.

FREQUENCY RESPONSE: It is uniform ± 3 db from 300 cps to 3000 cps.

AUDIO FREQUENCY DISTORTION: Less than 10%

r.m.s. measured with 90% modulation at 400 cps.

RESIDUAL NOISE LEVEL: On the carrier is more than 40 db below the 100% modulation level.

POWER OUTPUT

VOICE: 20 watts.

CONTINUOUS WAVE: 40 watts.

RECEIVER CHARACTERISTICS

NUMBER OF BANDS: 3 bands.

TYPE OF CONTROL: Crystal controlled.

FREQUENCY RESPONSE: Within 5 db from 300 cps to 3000 cps.

BANDWIDTH: 6 kc at 6 db down, 11 kc at 20 db down and 19 kc at 40 db down.

AUDIO FREQUENCY DISTORTION: Less than 5.0% at 1.5 W; and 10% at 2.4 watts.

OPERATING POWER REQUIREMENTS: 12 v DC, 24 v DC, 32 v DC, 115 v DC, 115 v AC, 60 cps; and 230 v DC.

NOTE: Receiver requires 12 v AC or DC at 1.4 amps for the filaments and 225 v DC at 95 ma for the plates of the tubes.

April 1959

MZ-2

RAD'N SET

MANUFACTURER'S OR CONTRACTOR'S DATA

Willys Motors, Inc., Toledo, Ohio.

REFERENCE DATA AND LITERATURE

NAVSHIPS 95147: Technical Manual for Radio
Set Navy Model MZ-2.

TUBE AND/OR CRYSTAL COMPLEMENT

(5) 12A6 (4) 1625
(3) 12SK7 (1) 12SA7
(1) 12SQ7

Total Tubes: (14)

No Crystals used.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

PROCUREMENT COGNIZANCE

STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Radio Set MZ-2 Including:		
1	Antenna Ass'y Type 66118		
1	Reconnaissance Car Type 10182-B		
1	Radio Transmitting and Receiving Set Model TCS		