

LORAN TRANSMITTING EQUIPMENT

Use.—Radio transmitter for the Loran system of navigation.

Frequency range.—1,750 to 1,950 kilocycles.

Description.—Loran Transmitter Model T-137-A, when triggered, supplies a high-power pulse of radio-frequency energy which is radiated from an antenna and utilized, by both air and surface craft, to determine a line of position.

Loran Transmitter T-137-A.—This unit is functionally identical with Loran Transmitter T-137. Small circuit changes and the use of 3 JAN 5R4GY tubes instead of 1, and 2 JAN 6SN7W tubes instead of 3, for a total tube complement of 58 instead of 57, constitute the differences.

Transmission Line Junction Unit.—This com-

ponent is identical with the transmission line junction unit supplied with Transmitter Model T-137.

Equipment required but not supplied.—The equipment required but not supplied is identical with that of Transmitter Model T-137 with the addition of the following items: (1) One Antenna Coupling Unit Type CU-277/URT, or equivalent to match the transmitter output to the antenna system. (The Antenna Coupling Unit is adjustable, so as to provide an impedance match to antennas having 25 to 150 ohm resistance, -300 to +150 ohms reactance, and operating at frequencies of 1,700 to 2,000 kilocycles); and (2) a 50-foot coil of standard RG-19/U cable, for connection of the Transmission Line Junction Unit to the Loran Transmitter.

Weights and Dimensions of Equipment Supplied

Quantity per normal station	Component	Height (inches)	Width (inches)	Depth (inches)	Weight (pounds)
2	Loran Transmitter Model T-137-A	(1)	(1)	(1)	(1)
1 ¹	Transmission Line Junction Unit	(1)	(1)	(1)	(1)
1 for each timer	Modification Kit for Navy Model UE-1 Timer	11	6½	6½	4
2 ¹	500-ft reel, Type RG-147/U Cable	(1)	(1)	(1)	(1)
2	Instruction Books				
1 set	Equipment Spare Parts				
		See shipping weights and dimensions.			

¹ Identical with Transmitting Equipment Model T-137.

Shipping Weights and Dimensions

Components	Size (inches)	Gross weight (pounds)	Volume (cubic feet)
Loran Transmitter Model T-137-A	(1)	(1)	(1)
Transmission Line Junction Unit	(1)	(1)	(1)
Tubes, one complete set	(1)	(1)	(1)
Modification Kit for Navy Model UE-1 Timer	11 x 6½ x 6½	4	½
500-ft reel, Type RG-147/U Cable	(1)	(1)	(1)
Equipment Spare Parts:			
Shipping Box No.:			
1	30 x 15 x 17	92	4
2	30 x 15 x 17	118	4
3	30 x 15 x 17	91	4
4	30 x 15 x 17	85	4
5	30 x 15 x 17	95	4
6	30 x 15 x 17	93	4
7	30 x 15 x 17	90	4
8	30 x 15 x 17	116	4
9	30 x 15 x 17	123	4
10	30 x 15 x 17	115	4
11	30 x 15 x 17	70	4
12	32 x 20 x 24	95	9
13	30 x 15 x 17	86	4
14	30 x 15 x 17	74	4
15	32 x 20 x 24	82	9
16	30 x 15 x 17	48	4
17	32 x 20 x 24	145	9
18	24 x 17 x 13	47	3
19	24 x 17 x 13	47	3
20	24 x 17 x 13	80	3
21	20 x 16 x 15	100	3
22	18 x 16 x 13	75	3
23	24 x 18 x 10	90	3
24	24 x 18 x 10	90	3
25	24 x 23 x 22	110	7
26	25 x 18 x 16	162	4

¹ Identical with Transmitting Equipment Model T-137.