



Double Pulse Modification Kit for Loran Transmitting Set AN/FPN-44

**FUNCTIONAL DESCRIPTION**

The Double Pulse Modification Kit for Loran Transmitting Set AN/FPN-44 provides increased power capabilities needed by the loran transmitting set in a double pulse Loran-C ground station. The kit contains power supply components which enable the loran transmitting set to operate at nearly twice the average power output of one that is used in a standard single pulse Loran-C ground station.

**RELATION TO OTHER EQUIPMENT**

The Double Pulse Modification Kit for Loran Transmitting Set AN/FPN-44 is similar in function to the Double Pulse Modification Kit for Loran Transmitting Set AN/FPN-45. The transmitter modification kit is integrally related to a kit for modifying two Timer-Synchronizer Sets AN/FPN-46 for double pulse operation.

**EQUIPMENT REQUIRED BUT NOT SUPPLIED**

The following equipment is required to enable a single pulse station to function as a double pulse station:

- Loran Transmitting Set AN/FPN-44.
- Two Timer-Synchronizer Sets AN/FPN-46.
- Timer-synchronizer set double pulse modification kit.

**ELECTRICAL AND MECHANICAL CHARACTERISTICS**

The electrical and mechanical characteristics resulting from the modification of a standard loran transmitting set by a double pulse modification kit are identical to those on the description sheets for the standard Loran Transmitting Set AN/FPN-44 except for the following:

**POWER OUTPUT:**

400 KW (peak), 14 KW (average), depending on the pulse repetition rates.

**PEAK POWER REQUIREMENTS:**

Double pulse operation with one timer-synchronizer set operating at any basic S rate and the other timer-synchronizer set at any basic SH rate.

- (1) 208 VAC 50-60 CPS, 3 phase 89 KVA
- (2) 440 VAC 50-60 CPS, 3 phase 460 KVA

**ADDITIONAL POWER SUPPLY OUTPUT:**

+31.5 KV at 5 amp

**MANUFACTURER'S OR CONTRACTOR'S DATA**

ITT Federal Laboratories, 500 Washington Avenue, Nutley, New Jersey. Contract Tcg-41848 Purchase Description Number EEE-1-62.

**DESCRIPTION OF COAST GUARD ELECTRONIC EQUIPMENT**

**DOUBLE PULSE KIT  
FOR AN/FPN-44**

UNCLASSIFIED

Loran Transmitting Set AN/FPN-44 Double Pulse Modification Kit drawing number is H1088566.

**EQUIPMENT SUPPLIED**

**TUBE COMPLEMENT**

TYPE	QUANTITY
857B	24

**DOUBLE PULSE MODIFICATION KIT FOR LORAN TRANSMITTING SET AN/FPN-44**

QUANT. PER EQUIP.	NOMENCLATURE NAME	DESIGNATION
1	Double Pulse Modification Kit for Loran Transmitting Set AN/FPN-44	H1088566*

**REFERENCE DATA AND LITERATURE**

Technical Manual for Loran Transmitting Sets AN/FPN-44 and AN/FPN-45, Modified for Double Pulse Operation. Publications number is CG-273-103-1.

\* Manufacturer's designation.

**SHIPPING DATA**

DOUBLE PULSE MODIFICATION KIT FOR LORAN TRANSMITTING SET AN/FPN-44							
BOX NO.	NOMENCLATURE		*OVERALL DIMENSIONS			*VOLUME	*WEIGHT
	NAME	DESIGNATION	HEIGHT	WIDTH	DEPTH		
V1	Voltage Regulator	CN-940/FPN-44	79	32	49	68	2400
V2	Voltage Regulator	CN-940/FPN-44	79	32	49	68	2400
V3	Power Supply	PP-3815/FPN-44	93	63	82	278	5600
V4	Tubes		32	38	57	53	192
V5	Tubes		32	38	57	53	192
V6	Power Supply	PP-3815/FPN-44	93	63	82	278	5600
V7	Tubes		32	38	55	39	180
V8	Tubes		32	38	55	39	180
V10	Assorted Items		55	55	83	150	1220
V11	Assorted Cables		38	39	45	38	1308

\* Unless otherwise noted, dimensions are in inches, volume in cubic feet, and weight in pounds.