DATE 7/31/58 SH. 1 OF 2 COMPILED BY	TMC SPECIFICATION NO. S-385	
	TITLE: MODIFICATIONS TO GPT-750D SERIES II	JOB
APPROVED	AN/URT-17	

The purpose of this specification is to describe revisions and changes to be made to the Model GPT-750D, AN/URT-17 Radio Transmitter, to improve operation under shock and vibration conditions. These changes will begin with Serial No. 500. The TMC designation for this transmitter will be GPT-750D Series II.

1. Front Panel clamping to be accomplished by means of six (6) captive fasteners on the RTF, AM-1703/URT-17, six (6) captive fasteners on the A-1479 Panel Assembly, MT-1855/URT-17 and a total of eight (8) captive fasteners on the RTP Power Supply Assembly PP-1768/URT-17. The captive fasteners are to have a slotted hex head.
2. Structural members of the cabinet A-958, CY-2190/URT-17, to be of heavier material with additional cross bracing where required.
3. All front panels to be re-enforced by means of structural angle.
4. All chassis to be re-enforced at cutouts mounting large components.
5. Panel Chassis Assembly, A-1279, MT-1855/URT-17, to be modified to include permanent location of SBE-2 power supply; additional cross bracing where necessary; bottom chassis to become one piece and connector assembly to be strengthened. Provision should be made for the A-1396/SBE-2, 0-503A/URA-23, to be removable from the front of the assembly and to be firmly tied to the chassis at the rear.
6. Guide pins and sockets to be provided at the rear of all sliding drawers.
7. Final amplifier section of the RTF, AM-1703/URT-17, including the meter panel, to be ruggedized and components more ruggedly supported.
8. Bottom shock mounts to be relocated to raise the equipment resonent frequency in the side to side plane. Top shock mounts to be relocated and fastened directly to cabinent to prevent excessive amplitude of cabinet under vibration.
9. Rear panel, CY 2190/URT-17 to be secured to center cross members.
10. Positive locking military type tube clamps to be used on all octal base tubes.
11. Interconnect cables to be firmly clamped to prevent chaffing and fouling.
12. A-1397/SBE-2, PP-1796/URA-23, power supply internal wiring harness to be secured by cable clamp.

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13. HV Rectifier tubes to be provided with lock-down device and positive locking plate caps.
14. 4B32 HV Recitifers to be used in the RTP power supply, PP-1768/URT-17.
15. All interlocks to be provided with a defeat feature.
16. Pa plate Pa Screen and main line circuit breakers will be airplane type setable from the front panel.
17. RF deck blower assembly to be replaced by a military type blower and lower cabinent blower to be replaced by a high capacity military type fan to reduced Power Supply ambient.
18. All gears will be pinned to shafts in conformance with military specifications.
19. All plug-in relays to be securely clamped.
20. Variable capacitor Pa tuning assembly to be provided with a positive stop, slip safe device and positive locking device.
21. AC service outlet to be provided in the front of equipment.
22. Carrier suppression shall be a minimum of 45 db under vibration conditions up to the resonent frequency of the assembly.
23. RF feedback to be provided to insure 40 db 3rd order inter-modulation products at 500 watts output PEP.
24. Pa loading condenser control will be provided with a vernier and positive locking feature.
25. Exciter dial to be of improved type to prevent warping under heat.

Ref: SSB 174C - GPT-750 AN/URT-17- NAVSHIPS 93161
SSB 195C - SBE-2 AN/URA-23A - NAVSHIPS 93163