

Review and Restatement of the Details of 7103A, 7103B and 7103C

~~TOP SECRET~~

7103A-1, 105 to 125 mc coverage, utilizing two polar mounted dipole antennas measuring 34 inches in length.

Four Filters, tubular $\frac{1}{2}$ " dia. x $7\frac{1}{4}$ " long.**

Two Detectors, Tubular $\frac{5}{8}$ " X $3\frac{1}{2}$ " long*** ~~X 1 1/2" Dia~~

One video amplifier with internal bias facility*

7103A-2, 665 to 855 mc coverage, utilizing four equatorial mounted monopole antennas measuring 5 inches in length.

Six Filters*** 6 inches long — 6"

Six Detector Mounts***

One Video Amplifier*

7103A-3, 1080 to 1350 mc coverage, utilizing ~~four~~ six monopole antennas 2 inches long, mounted in a symmetrical system of six located at the 36° Latitude.

Six Filters** each $3\frac{1}{2}$ " long.

Six Detector Mounts***

One video amplifier*

6 Filter-Detector Units 1/2" x 7"

7103A-4, 3800 to 4700 mc coverage, utilizing a symmetrical system of six monopole antennas located at the 36° latitude, and measuring $\frac{3}{4}$ inch in length.

Six combined Filter-Mounts, rectangular, $1\frac{1}{2}$ " x $\frac{1}{2}$ " x $3\frac{1}{2}$ ".

Six Video Amplifiers* and Trigger Amplifiers.

Note: In 7103A-3 There is a plan to prepare an R & D experiment which will define

in this band.

Several schemes are under investigation now and additional details will follow. Additional hardware in the form of antennas, filters, amplifiers and telemetry channels will be necessary.

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*Handle via
Salent-Keyhole
Control System Only*

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 7103B-1, 155 to 180 mc coverage, utilizing two polar mounted monopoles each measuring 18 inches in length.
~~Two~~ ~~four~~ ~~Filters**~~ each 6 inches in length. *Two Filter-Detector Units 3/4" x 1 3/4" x 8"*
 Two Detector Mounts***
 One Video Amplifier*

7103B-2, 550 to 660 mc coverage, utilizing four equatorial mounted monopole antennas, each 5 inches in length.
 Six Filters**, each 4 3/4 inches in length.
 Six Detector Mounts*** 5"
 One Video Amplifier*

7103B-3, 820 to 1080 mc coverage, utilizing six monopole antennas in a symmetrical system located at the 36° latitude and measuring about 3" long:
 Six Filters**, Six Detector Mounts*** and One Video Amplifier*.
Six Filter-Detector Units 1/2" x 7"

7103B-4, 4700 to 5100 mc coverage utilizing six monopole antennas in a symmetrical system of 6, located at the 36° latitude, and 3/4" in length.
 Six rectangular Filter-Mounts 1 1/2" x 1/2" x 3 1/2".
 Six Video Amplifiers*.



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7103C-1, 170 to 205 mc coverage utilizing two polar mounted monopoles each 16 inches in length.

Four Filters** 6 inches in length.

Two Detector Mounts***

One Video Amplifier*

Two Filter-Detector Units
1/2" x 9 1/2"

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7103C-2, 320 to 390 mc coverage utilizing four equatorially mounted monopoles each about 8 inches long.

Six Filters** Six Detector Mounts *** One amplifier*

7"

7103C-3, 590 to 720 mc coverage utilizing six monopole antennas in common with 7103C-4, each antenna is about 5 inches long. and mounted on 36° Latitude.

Six Filters**, Six Detector Mounts*** One Video Amplifier.

6 inches in length.

7103C-4, 1600 to 2000 mc coverage utilizing antenna system described above.

Six Filters**

Six Detector Mounts cylindrical 1 1/2" dia x 2 1/2" long.

One video amplifier*

Six Filter-Detector Unit
1/2" x 7" long

Note.....

** Indicates A Tubular Filter which measures 1/2" diameter and if the length is not given it is 5" long.

*** Indicates A Cylindrical Detector Mount 5/8" in diameter and 3 1/2" long.

* Indicates a Video amplifier whos dimensions are 2 3/8" H x 3 1/2" X 15/16 wide. All amplifiers have integral bias distribution facility.

7103A	is	NRL	Payload	#	126	as determined on occasion of Meeting of 10 April 1963.
7103B	"	"	"	"	125	
7103C	"	"	"	"	124	-(SR-VII)

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Talent-Keyhole
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