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16 November 1955
5954

REQ 22	REV DATE 8 MAY 1960	BY 018373
ORIG GROUP 033	REV 56	TYPE 01
ORIG CLASS 5	PAGES 6	REV GROUP C
JUST 22	NEXT REV 2010	APPROV BY T-1

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Washington, D. C.

Attention:

Reference: Task VI,

Dear

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Various changes have been made in the equipment layout for the control station which alter somewhat the layout originally presented on the block diagram submitted in February 1955. The present arrangement is shown on the block diagram of the control station which is dated 4 November 1955. Three copies of this diagram are enclosed.

The master control unit comprising the several units as shown on the block diagram is mounted on a single chassis. An overall schematic of this unit is enclosed in triplicate.

Detailed circuits for the gate control, the transponder and control for use at the outstations have been developed. Three copies of each of these circuits are enclosed. These are all preliminary, subject to revision, and are dated 4 November 1955. In accordance with the directions as received from [redacted] on 14 November 1955, none of the drawings enclosed need be classified except the block diagram of the control station. Additional drawings will be sent as they become available.

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Sincerely yours,

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NS:ar

Project Engineer

cc: Orig & 1

Enc: Block Diagram Control (B) Station (3)
Master Control Unit (3)
Ten Pulse Gate Control - Control Station (3)
Transponder - Outstation (3)
Control for Remote Outstation Operation - Control Station (3)

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General Radio 723C
1000 cycle fork

General Radio 1217
Unit Pulser

Electronic Gate
& Time Delay

Pulse Amplifier
& Inverter

Wave Shaper

HP AC-4A
Decade
Counter
& Gate

Master Control

Camera
Start Control

Berkeley Counter 5510
Start Stop

Berkeley Counter 5510
Start Stop

Dumont Camera
321 A

Beam A
Beam B

Dumont Oscilloscope
322 A

Viking Ranger
Transmitter
4031.5 kc.

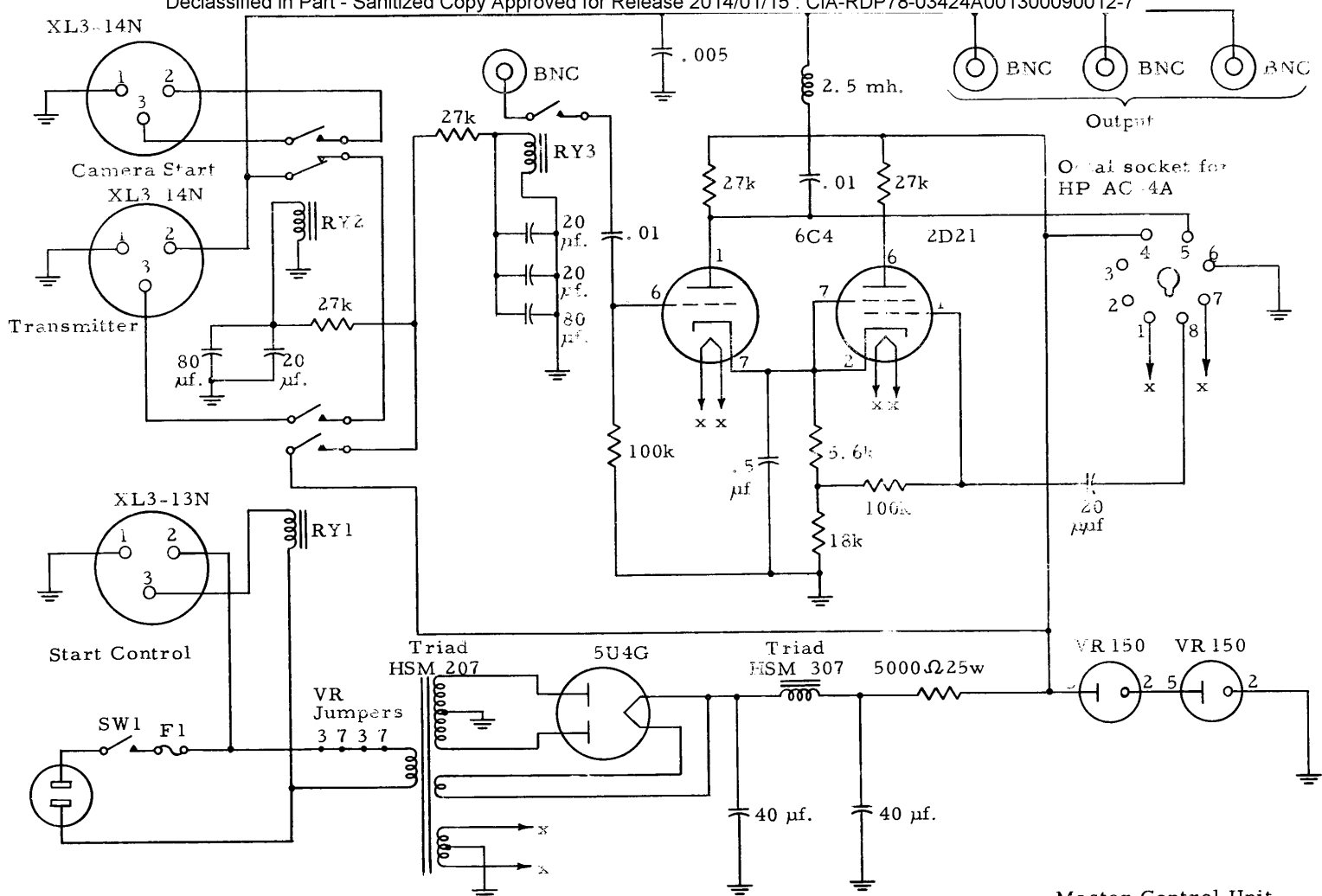
Outstation A
Hammarlund SP-600
Receiver
3177.5 kc.

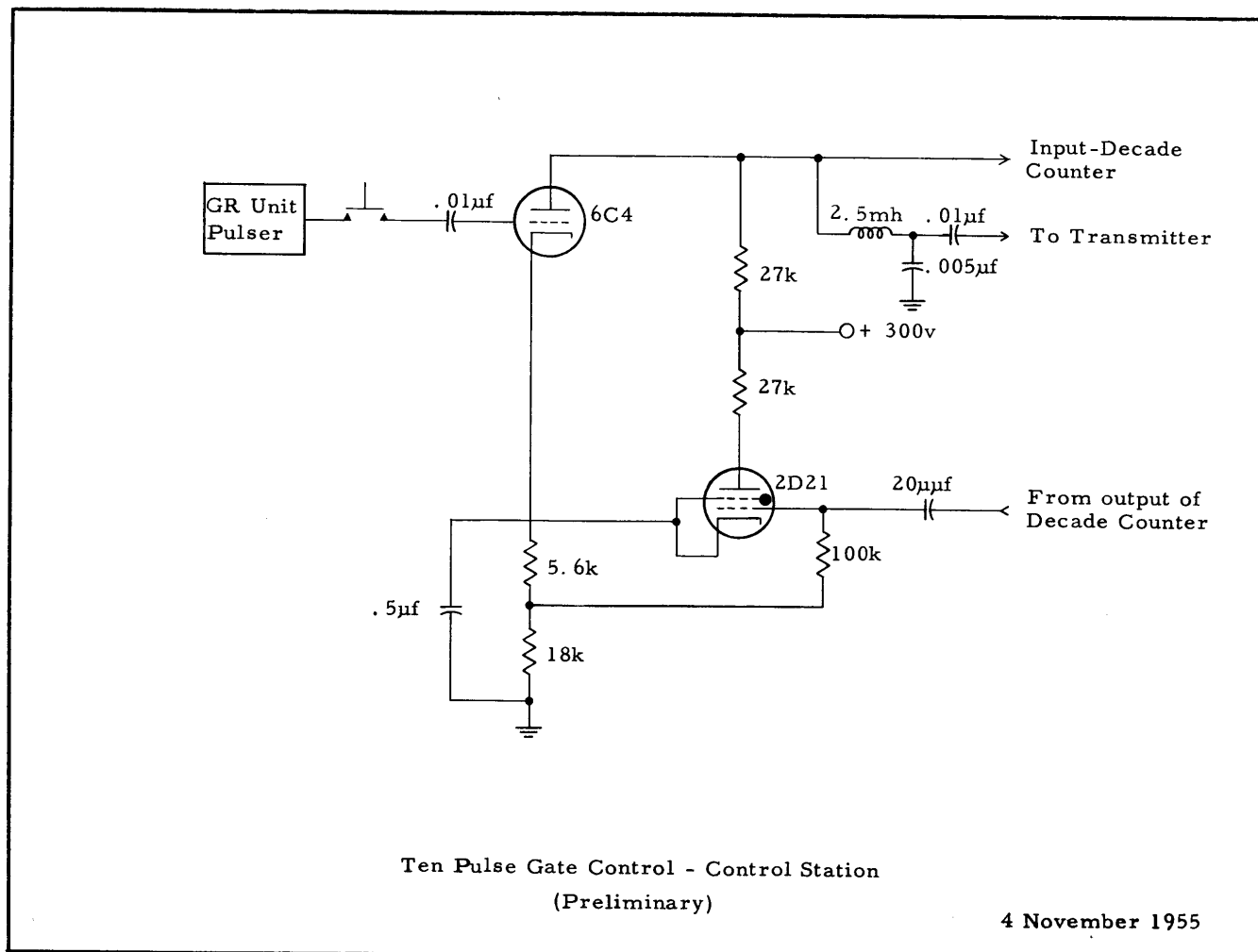
Outstation C
Hammarlund SP-600
Receiver
3197.5 kc.

Collins 51J3
Receiver
Unknown
Station

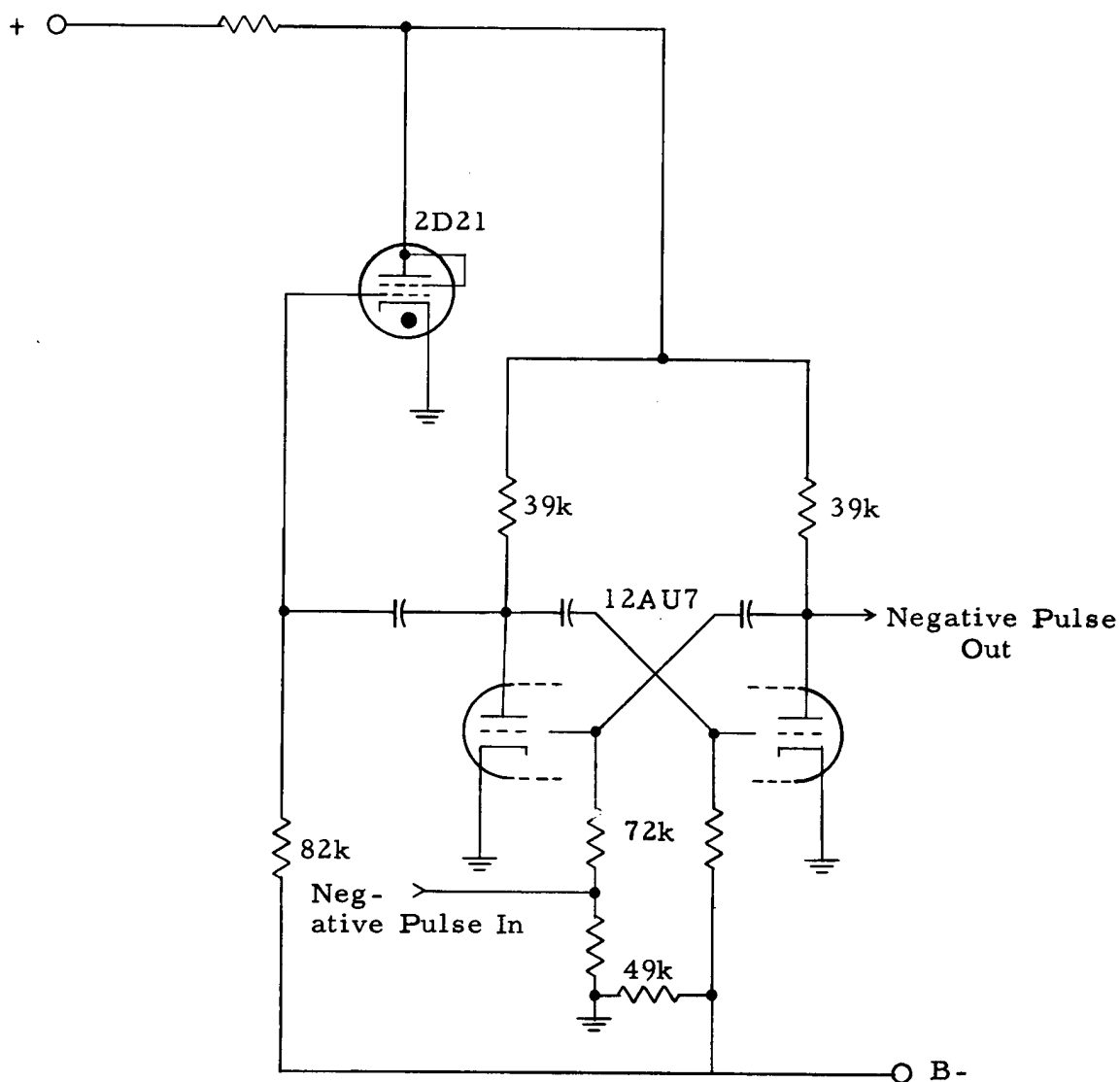
Block Diagram Control (B) Station

4 November 1955

Master Control Unit
Model 456-1 11-9-55



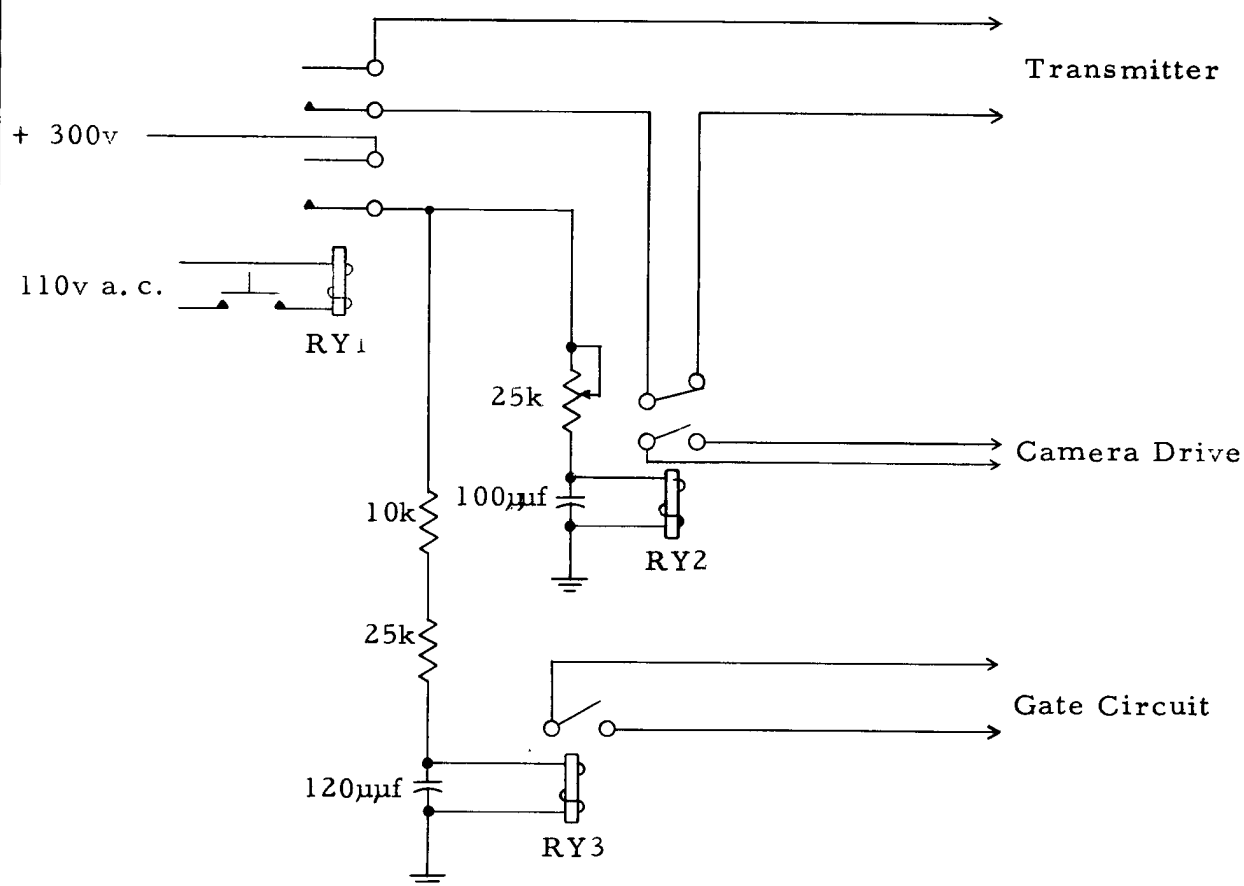
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Transponder - Outstation
(Preliminary)

4 November 1955

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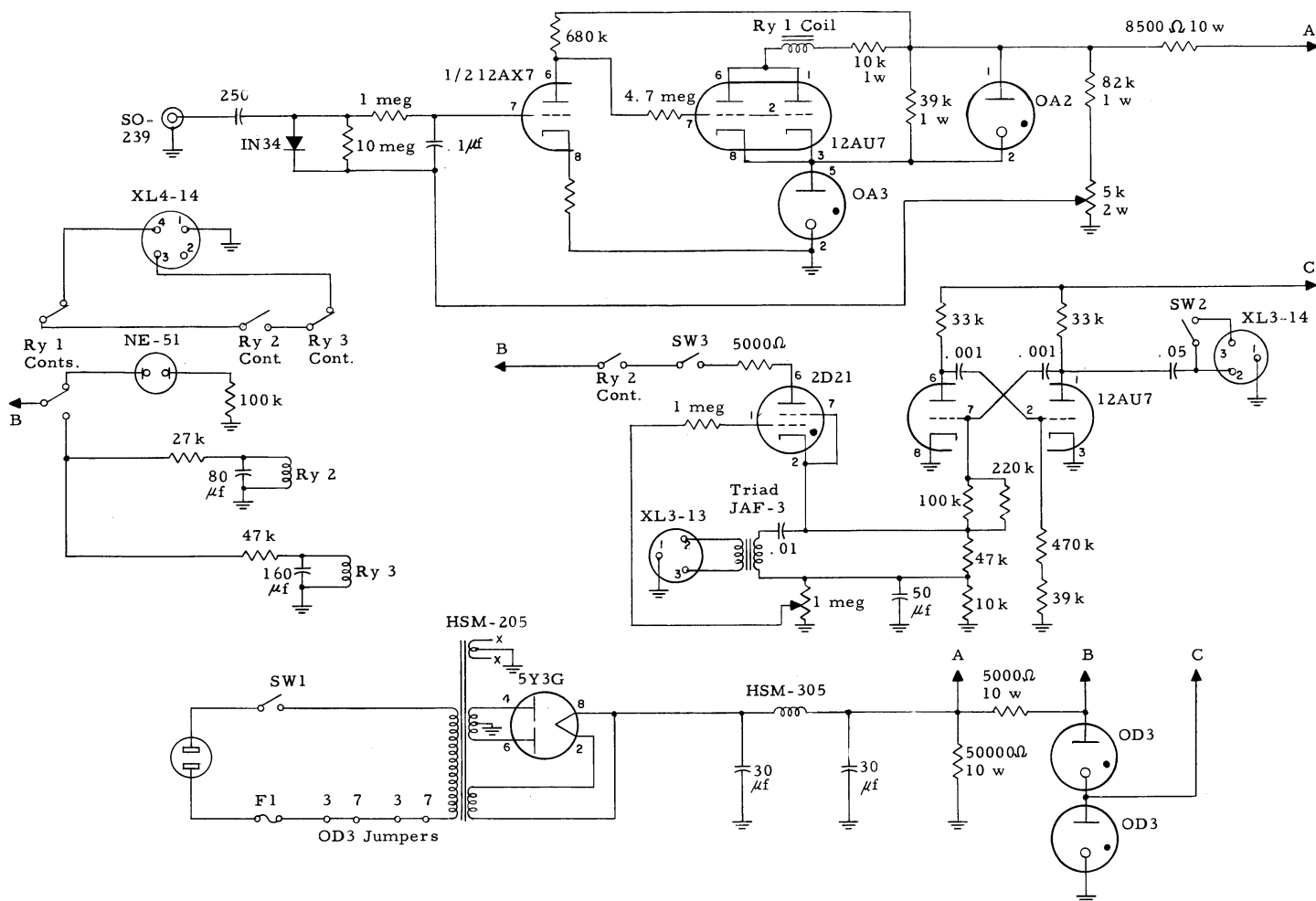
RY1 closes at $t=0$

RY2 closes at $t=1/2$ sec.

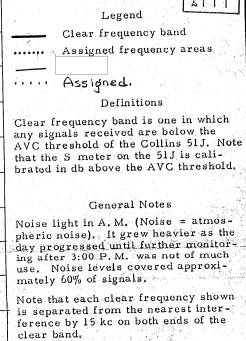
RY3 closes at $t=5/6$ sec.

Control for Remote Outstation Operation - Control Station
(Preliminary)

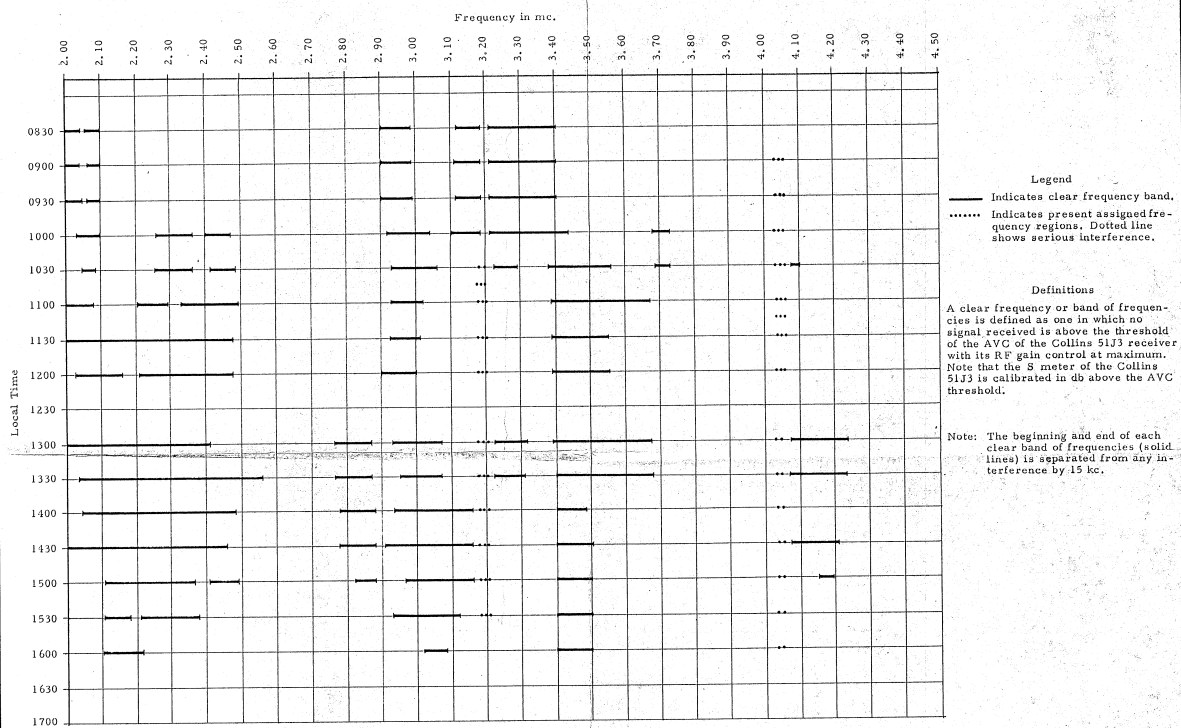
4 November 1955



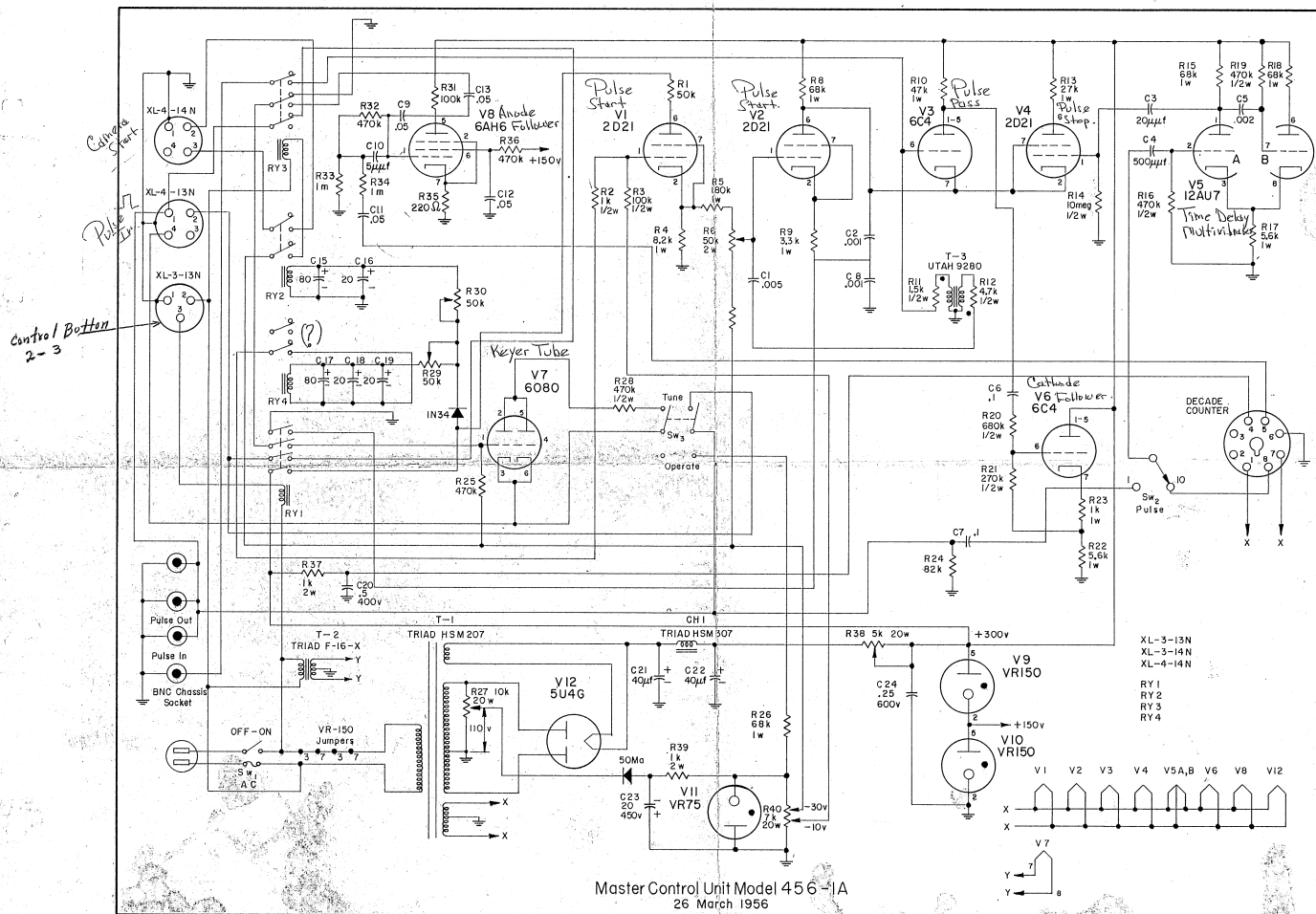
Transponder - Outstation (Supersedes - Transponder dated 4 November 1955) 28 December 1955.

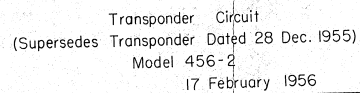


Frequency Search: February 9, 1956



Frequency Search February 8, 1956





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