

Secret

8/14/62 Dix

120 - 121 COMMAND SYSTEM OPERATION

Operation of the command system is best understood by referring to the Command System diagram for 120 and 121.

For added reliability, two independent command receivers are used operating on frequencies separated by at least 100 KCS. Each receiver output is connected to four series tuned filters. Receiver #1 supplies a signal to filters A, B, C, and D. Receiver #2 supplies a signal to filters E, F, G, and H.

The amplitude modulated command carrier is detected in the receiver, and after passing through the selective filter, the audio signal is rectified, amplified, and applied to a relay driver stage on the pulse driver assembly. Each relay drive transistor will accept a signal from either command receiver through its associated selective amplifier.

The following table summarizes the command system operation:

Tone or tone sequence	System activated
A or B F	ARM relay ON, Xmtr #1 and #2 ON, Timer ON
2305-A or B , then B or C G	ARM, Xmtrs, I & II ON 10, 11
A or B , then C or E E	" " II & III ON 11, 12
A or B , then D or H	" " III & IV ON 12, 13
A or B , then B or G , then C or E E	" " I & III ON 10, 12
A or B , then C or G , then D or H	" " II & IV ON 11, 13
A or B , then B or G , then D or H	" " I, II, III & IV ON 10, 11, 12, 13
A or B , then B or G , then C or E , then D or H	" " I & IV ON 10, 13
B & C chopped	ARM, Xmtrs, I, II, III, & IV OFF
E & G Chopped	ARM, Xmtrs, I, II, III, & IV OFF
D or H	Telemetry Xmtr OFF (If A or E has <u>not</u> been sent!)

01A (1 = B, 2 = 4) 136.318 30mw
 (9) 12 0 2 = C, 843
 01B (1 = B, 2 = 4) 136.890 100mw
 (4) 12 1 2 = C, 744
 186.0 0.9m + 114m, 2 mW

TRACK
 5/10 I = D = ± 1N = Bw T-4 26 32 12 27 27
 7/3 II = B = ± 2W = Cw B-2 320 480 120 370
 5/1 III = A = ± 1W = Bw B-1 192 257 165 200
 7/1 IV = C = ± 2N = Cw B-3 570 720 510 610