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TECHNICAL REPORT,
FOR INSTALLATION OF
C-6533(XE-2)/ARC ICS
IN
UH-1H HELICOPTER,

③

⑩ Prepared by
J.A./Hnat

⑪ July 1980

⑫ 31

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CONTRACT NO. DAAK80-79-D-0256
DELIVERY ORDER 0012
CLIN 0002

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Farmingdale, N.J.

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FOREWORD

The enclosed Technical Report has been prepared in accordance with the Statement of Work contained in Contract No. DAAK80-79-D-0256, Delivery Order 0012, under CLIN 0002, for installation of C-6533(XE-2)/ARC ICS in helicopter, UH-1H S/N 66-894.

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1. SCOPE.

↓ This report documents the results of the installation of the C-6533(XE-2)/ARC ICS in UH-1H helicopter. Installation was performed at the AEL, Inc., Monmouth County Airport facility.

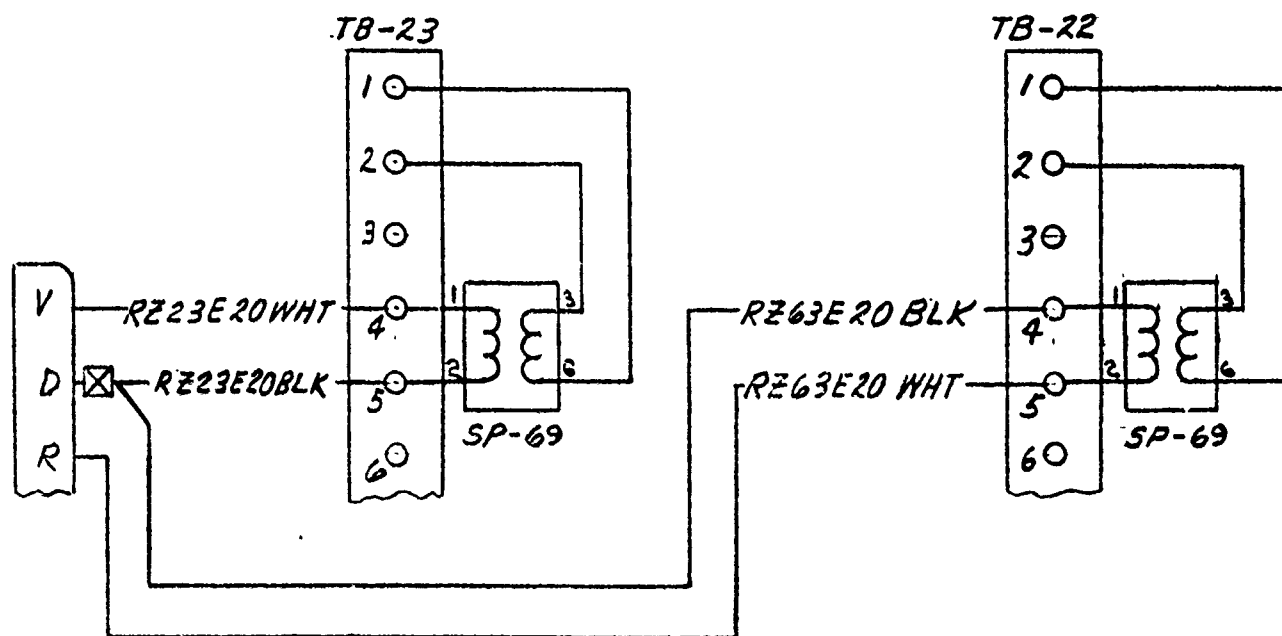
2. DESIGN COORDINATION AND INSTALLATION.

↘ Design of each installation was coordinated and approved by the Government. The mechanical and electrical installation drawings for the helicopter are attached as Appendix A of this report.

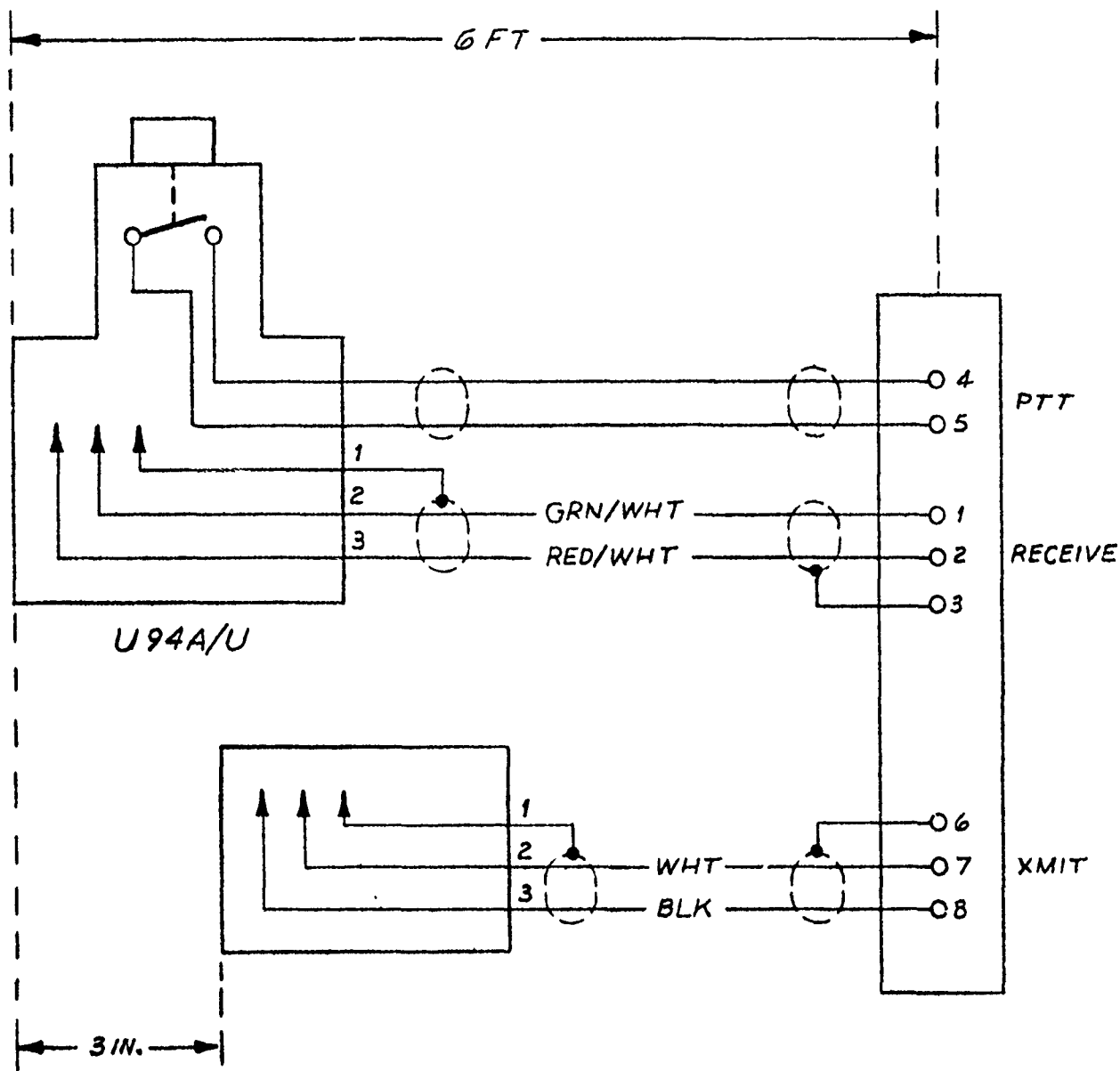
3. INSTALLATION

↘ The new ICS system consisted of new cabling, new intercoms and helmets rewired with new microphones. All four crew stations of the helicopter were reconfigured with the new system. Existing cabling for the standard ICS system remained in the aircraft but was securely stowed for later restoration of the aircraft. The helmets (4) were rewired using separate jacks for headphones and microphone lines. Transmit and receive cables were installed in the aircraft with a minimum separation of one inch between cables. A junction box was fabricated and installed on the aft end of the console to house the fan-out terminal strips. Transmit and receive lines' separation was maintained in the junction box. During the test phase the on-board radios were used with the new ICS system ↗

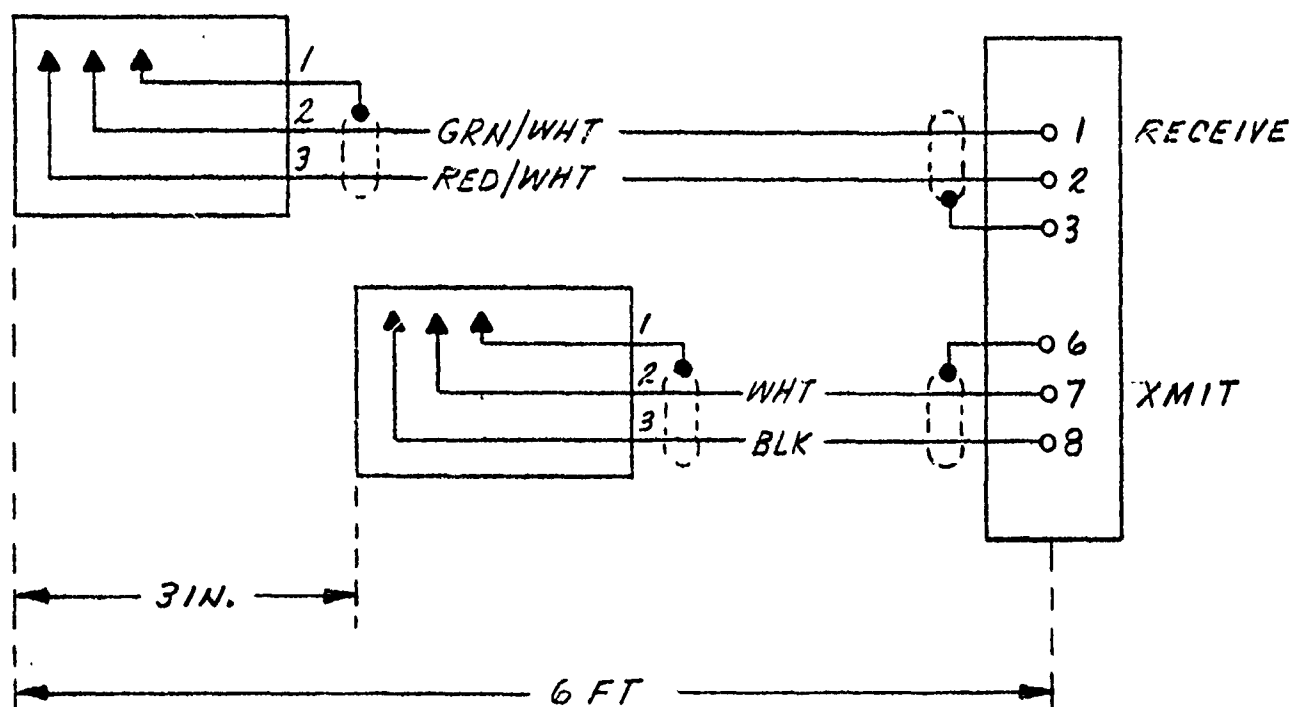
APPENDIX A



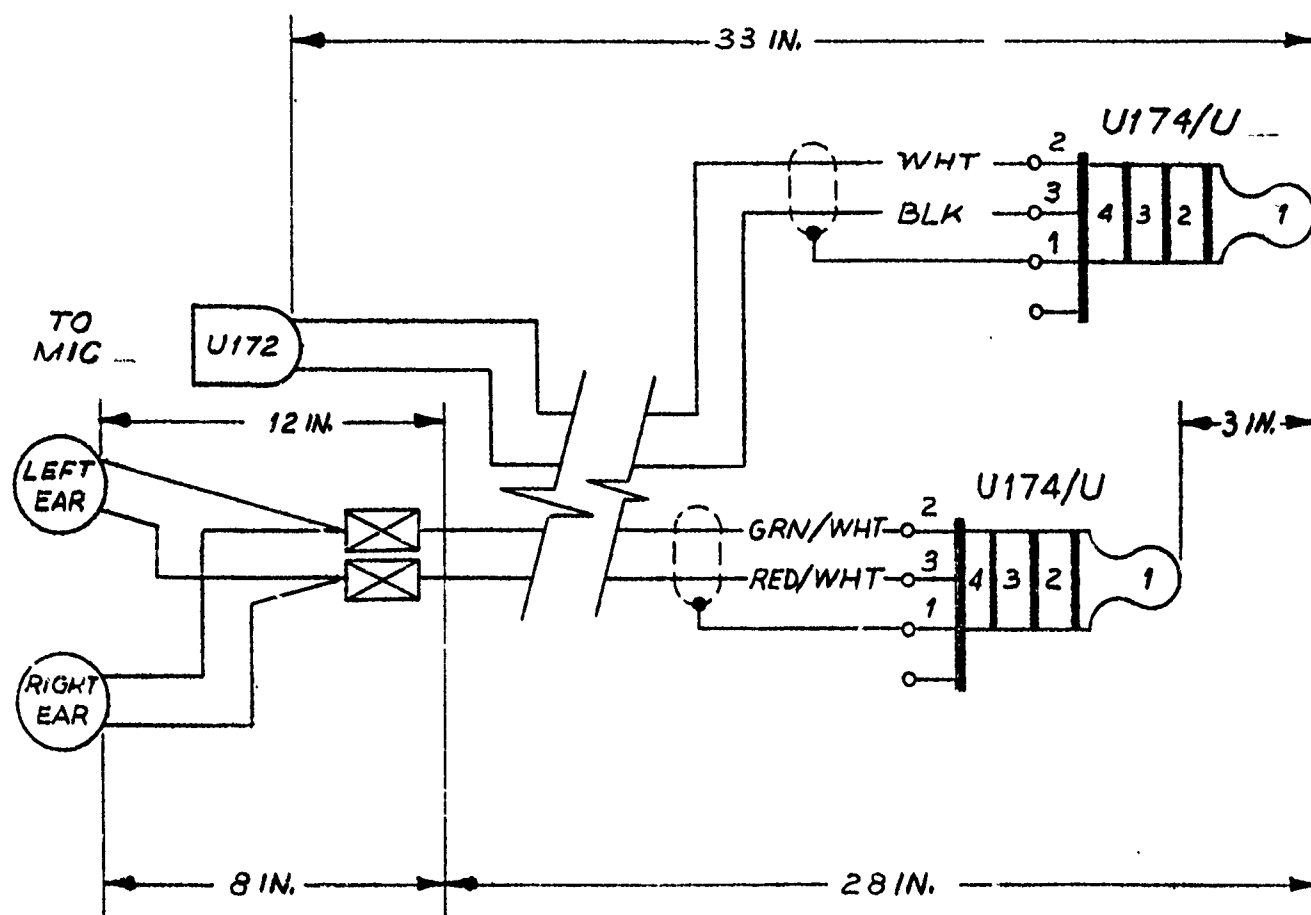
RPM LIMITER



CREW LEFT & CREW RIGHT - HELMET WIRE ASSEMBLY



PILOT AND CO PILOT HELMET WIRE ASSEMBLY



HELMET

ARC-131 CONTROL

LO	HI	HI	LO	HI	HI	LO	IN
RCVR AUD	RCVR AUD	XMIT AUD	XMIT AUD	XMIT AUD	RCVR AUD	RCVR AUD	XMIT CONT
B	C	K	R	X	N	KK	D

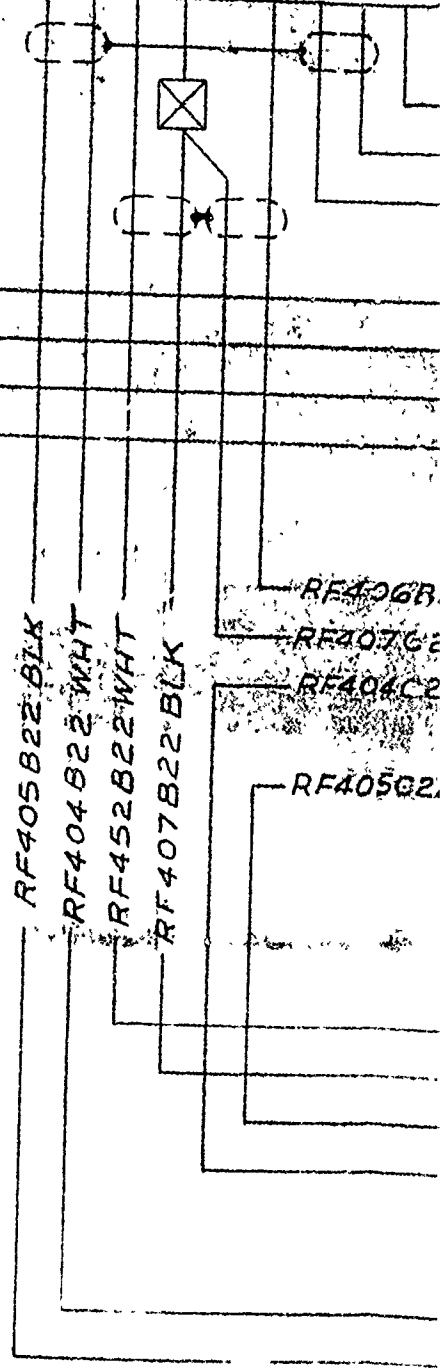
ARC-131 R/T

RCVR AUD LO	14
RCVR AUD HI	13
XMIT AUD HI	6
XMIT AUD LO	5

RF405A22 BLK
 RF404A22 WHT
 RF407A22 BLK
 RF406A22 WHT

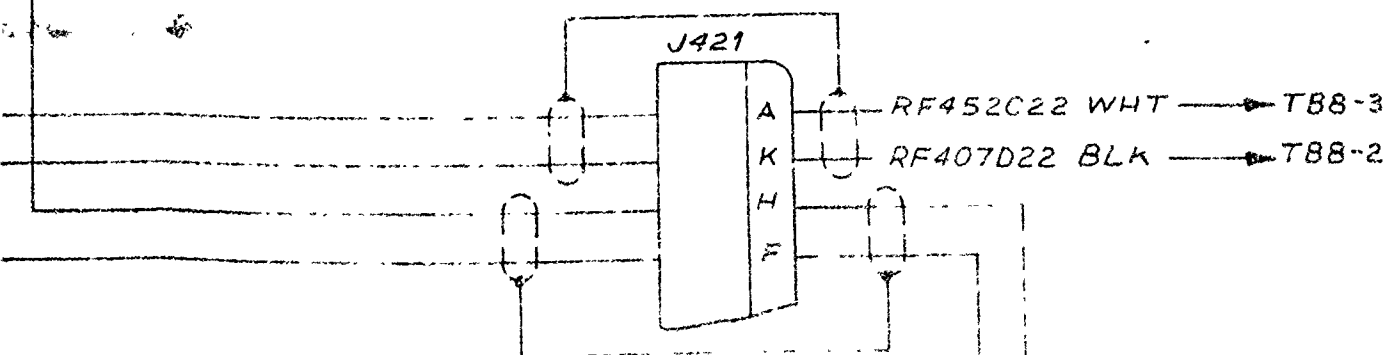
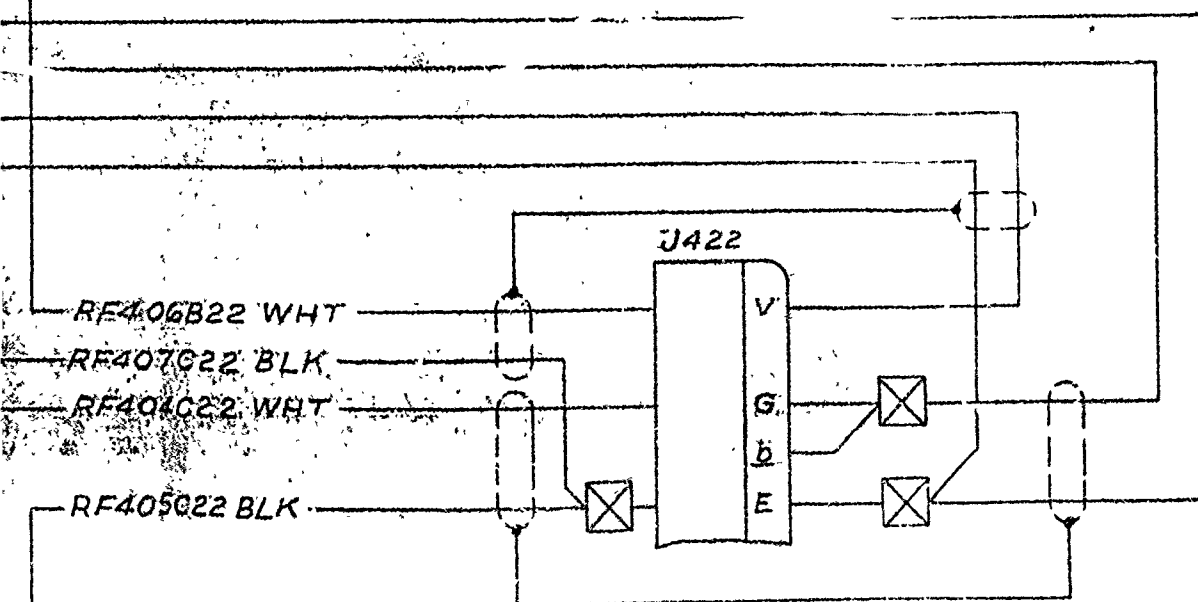
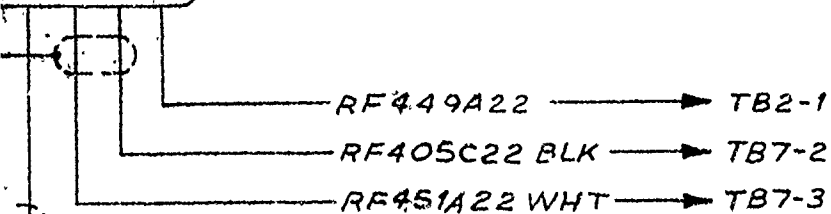
RF405B22 BLK
 RF404B22 WHT
 RF452B22 WHT
 RF407B22 BLK

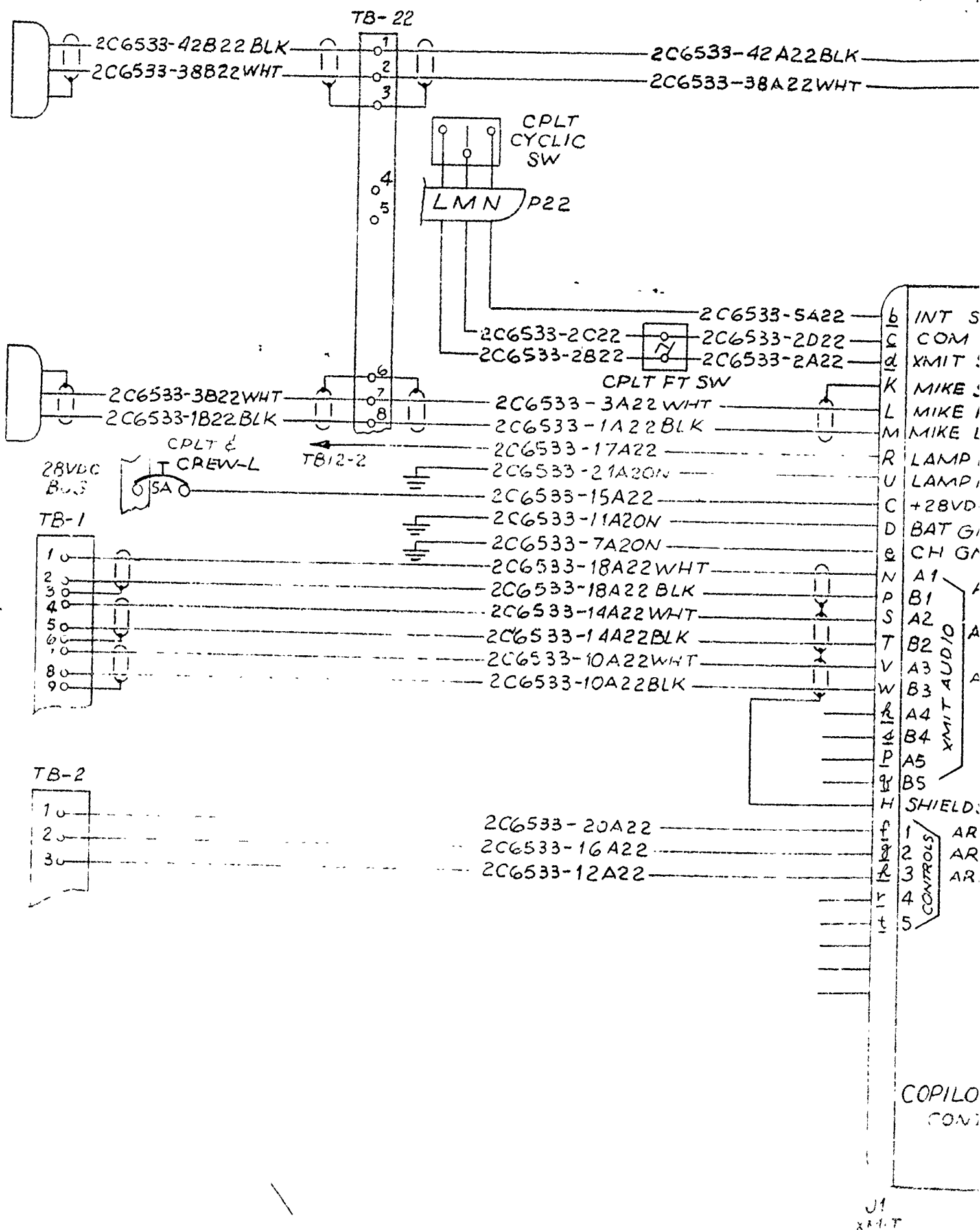
RF406B
 RF407G
 RF408C
 RF405C2

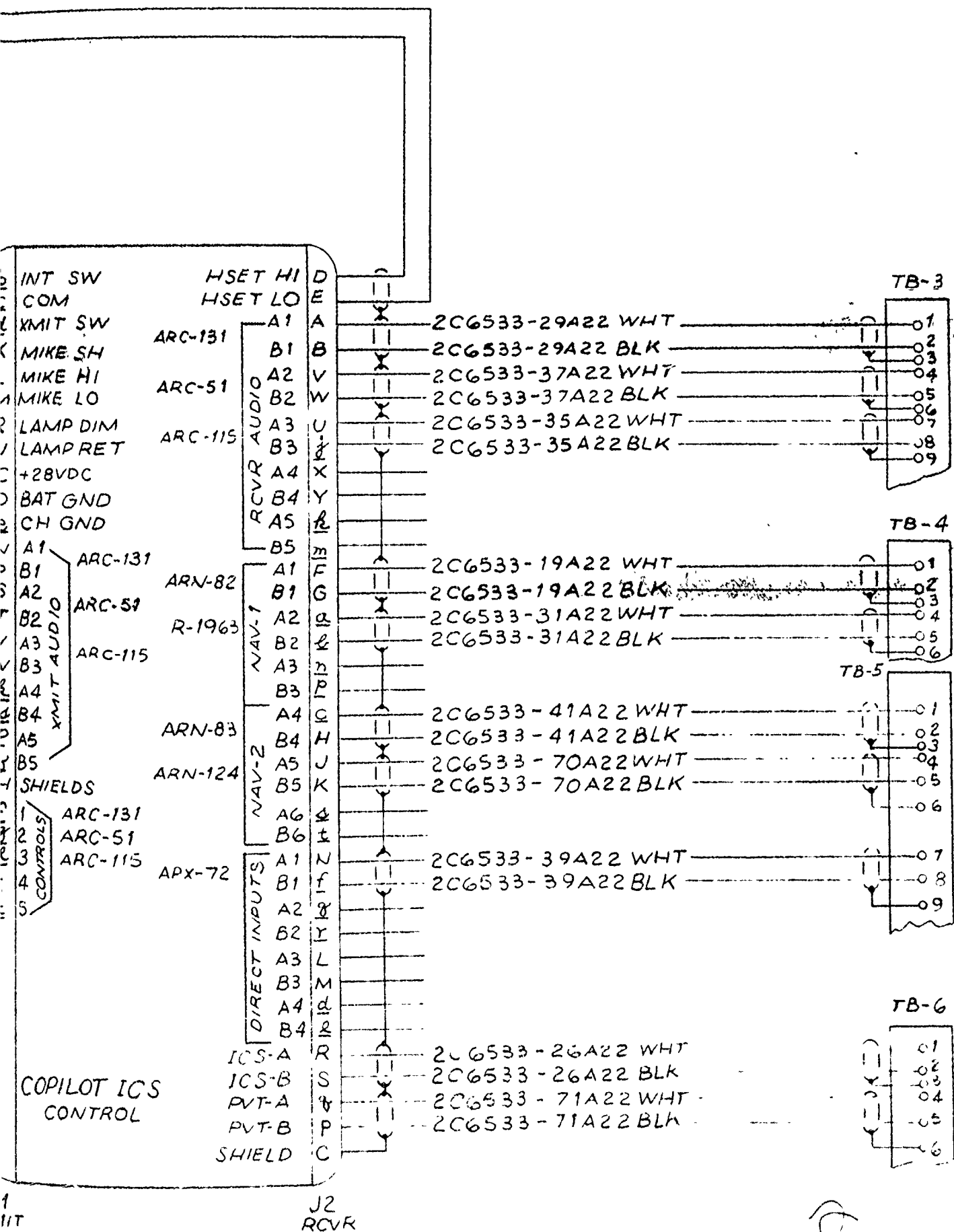


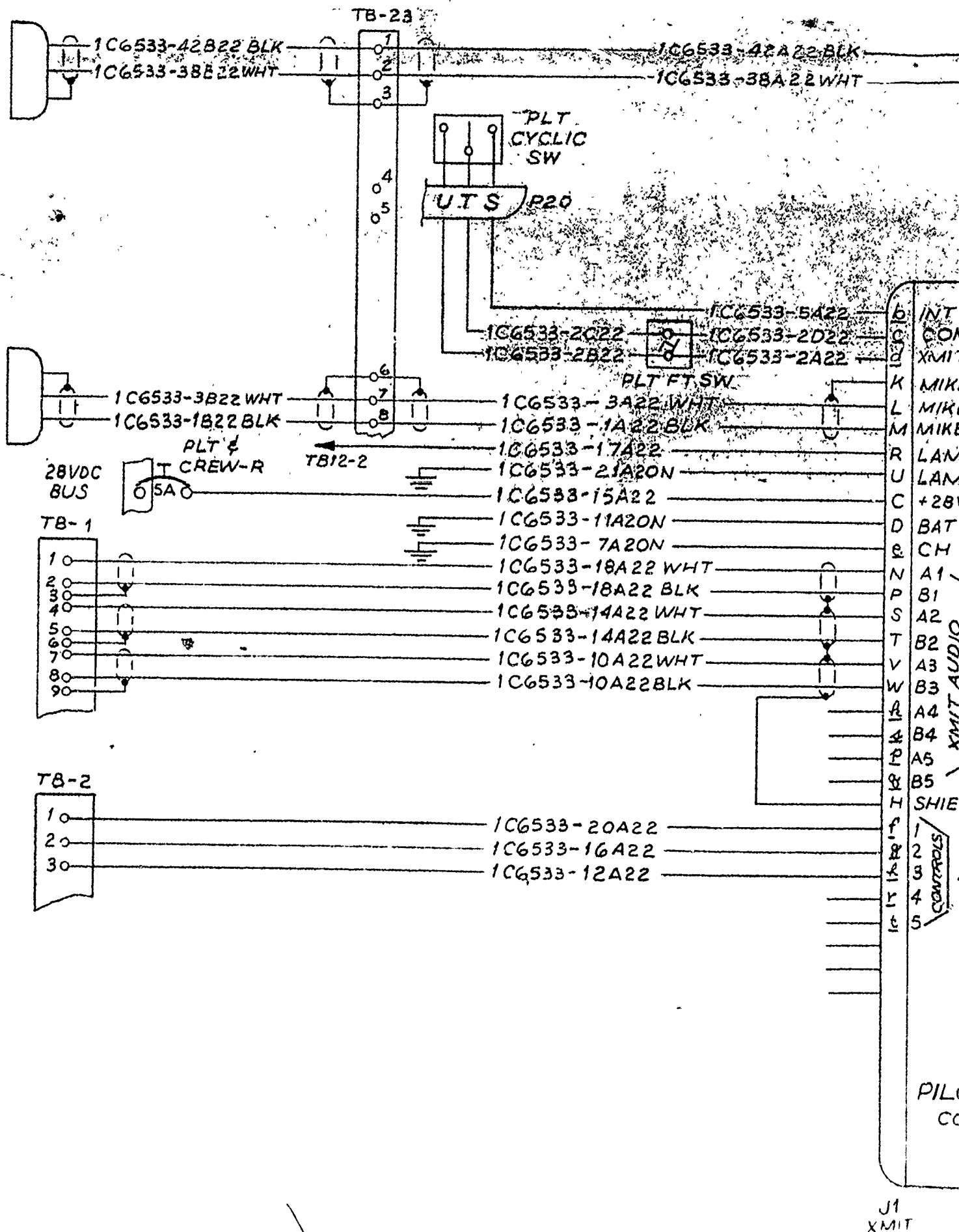
CONTROL

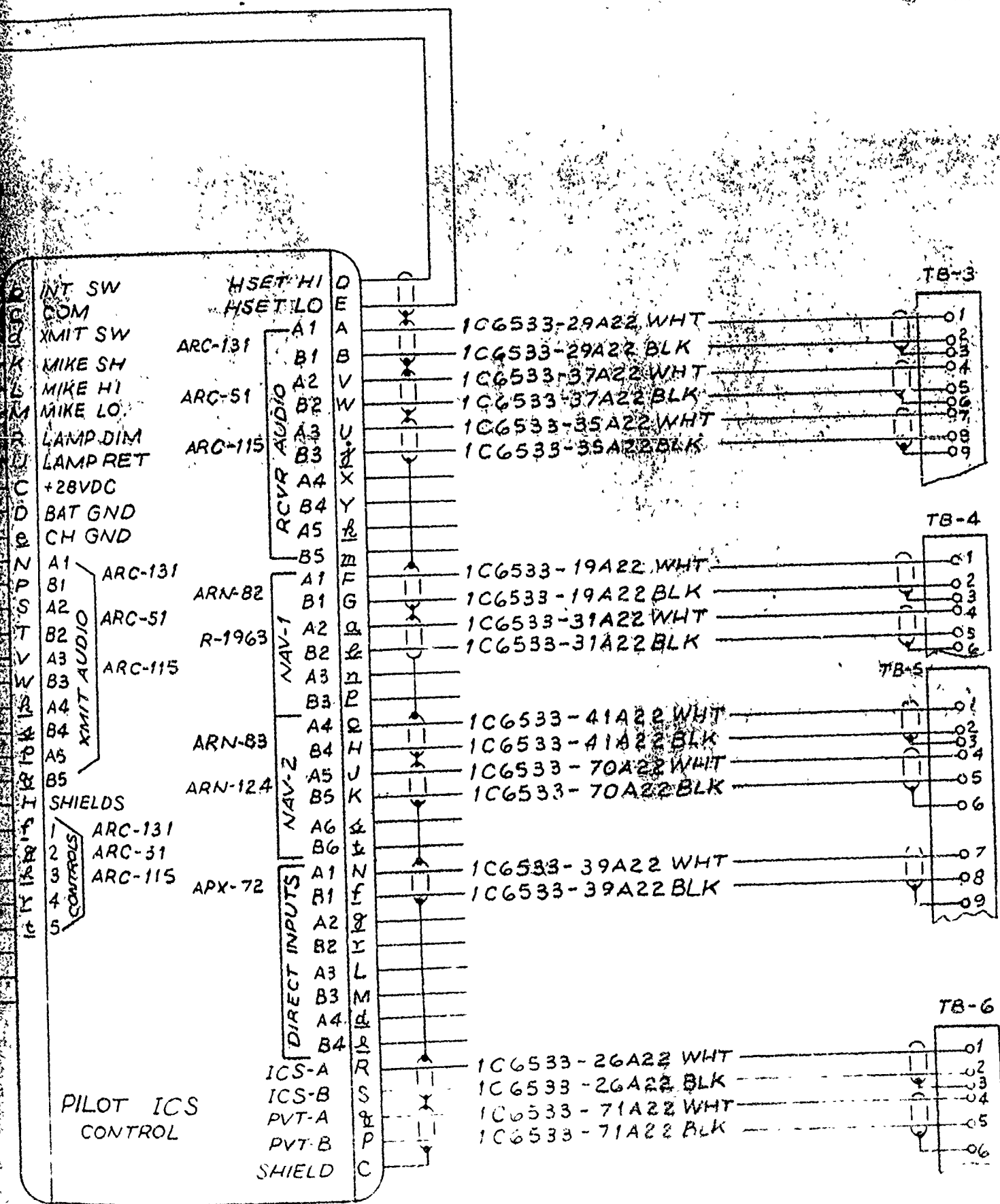
XMIT AUD	HI	RCVR AUD	HI	RCVR AUD	LO	XMIT CONT	IN
K	N	KK	P				



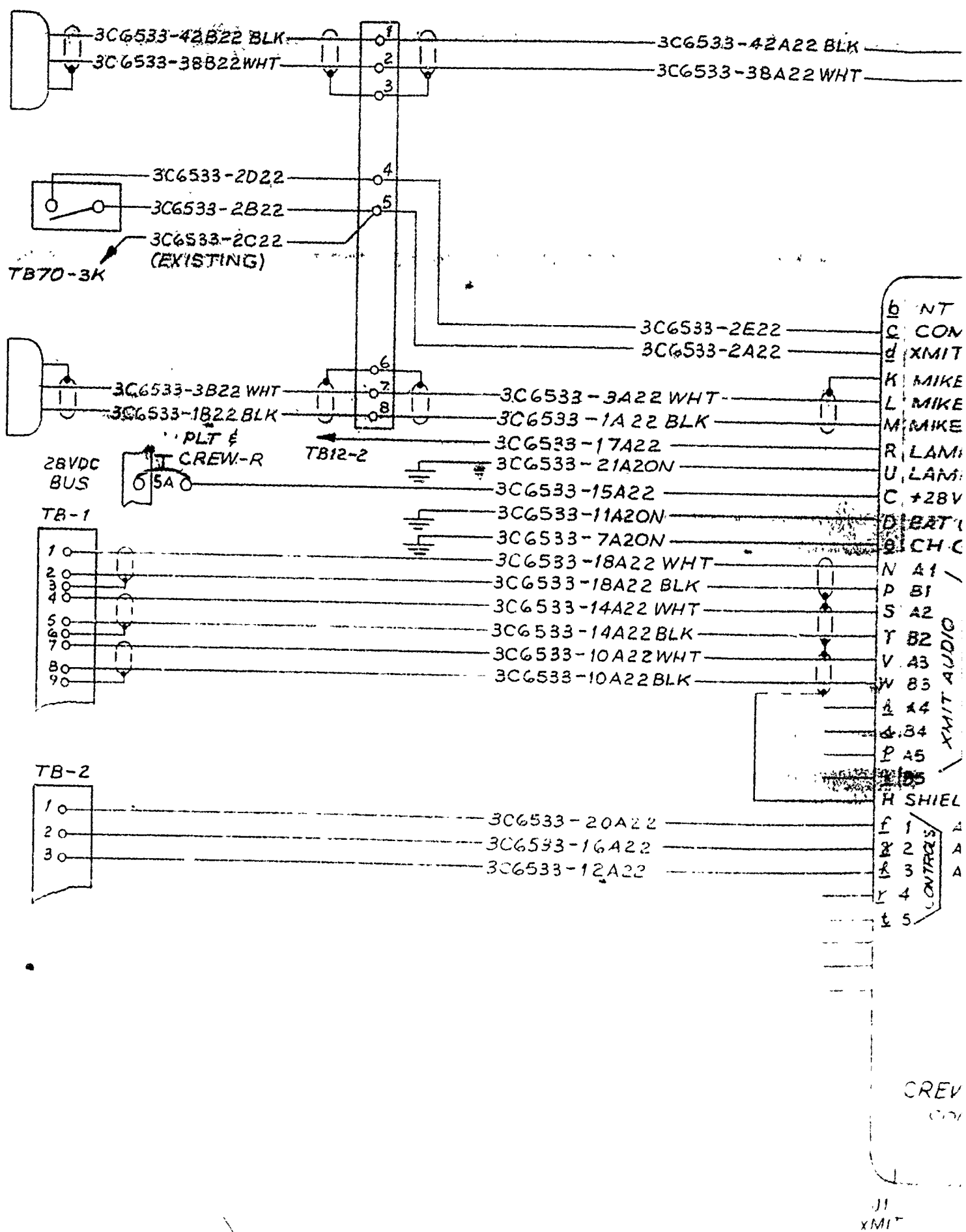


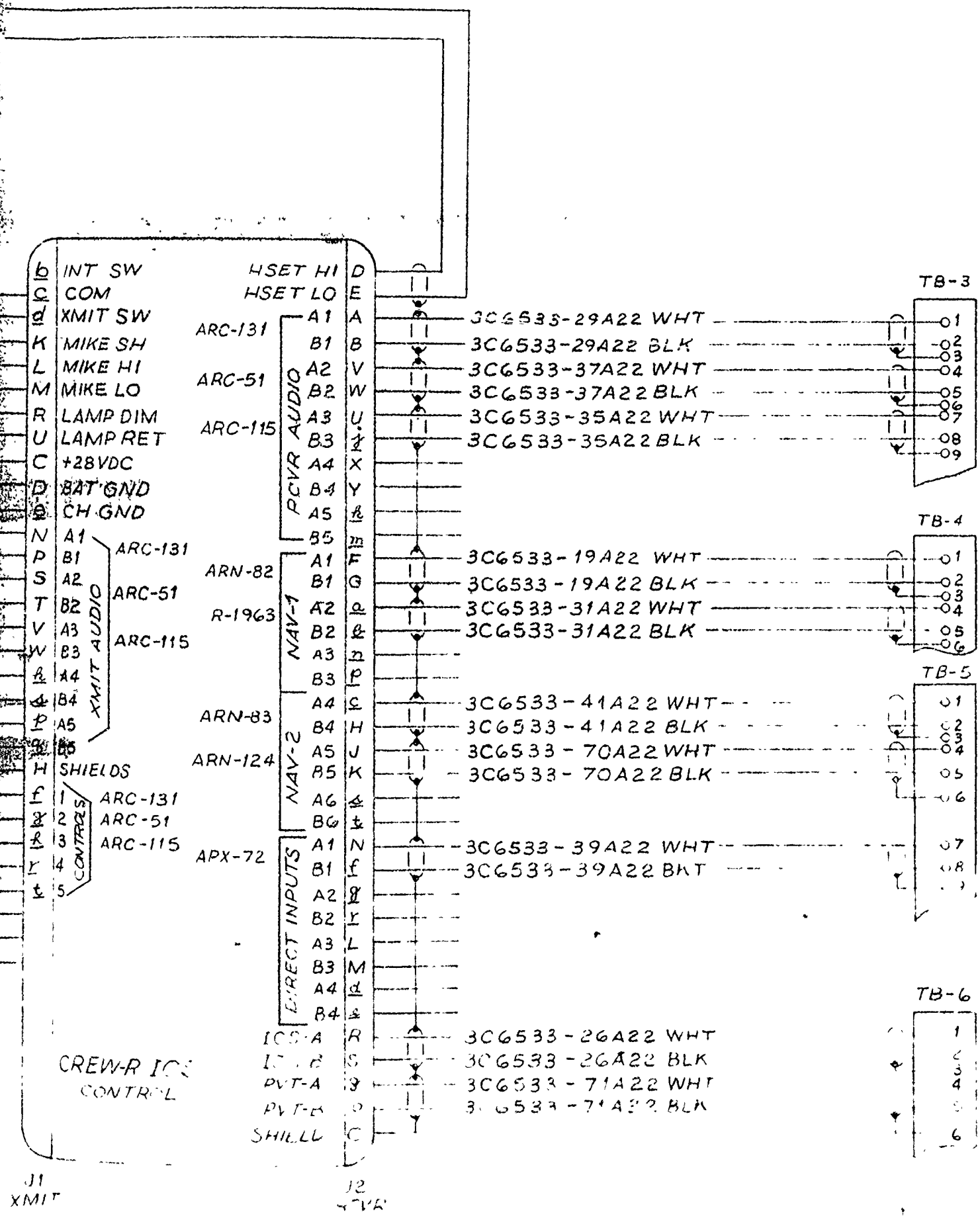






J1 XMIT J2 RCVR





TB-3

TB-4

TB-5

TB-6

J1
XMIT

J2
TVR

