VOLUME 046 MACHINE 3705- -0080232 MODEL M81 SYSTEM 0002904 MODE BOX SHIP 81/12/11

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
AAA01		BINDER TAB VOL 046	0008496504	344401	.W. 0001862344
VA000		L.I.B. X LOGICS (3)	0005153983	344401	.W. 0001862344
VA001		L.I.B. X LOGICS	0008550125	344401	.W. 0001862344
VA003		L.I.B. X LOGICS	0008550127	344852	.W. 0001862344
VA004		L.I.B. X LOGICS	0004499502	344852	.W. 0001862344
VA005		L.I.B. X LOGICS	0008550129	344401	.W. 0001862344
VA006		L.I.B. X LOGICS	0008550130	344401	.W. 0001862344
VA008		L.I.B. X LOGICS	0008550131	344401	.W. 0001862344
VA009		L.I.B. X LOGICS	0008550132	344852	.W. 0001862344
VA010		L.I.B. X LOGICS	0008550133	344852	.W. 0001862344
VA012		L.I.B. X LOGICS	0008550134	344852	.W. 0001862344
VA013		L.I.B. X LOGICS	0008550135	344401	.W. 0001862344
VA014		L.I.B. X LOGICS	0008550136	344401	.W. 0001862344
VA015		L.I.B. X LOGICS	0008550137	344401	.W. 0001862344
VA017		L.I.B. X LOGICS (2)	0008550138	344401	.W. 0001862344
VA020		L.I.B. X LOGICS	0008550126	344401	.W. 0001862344
VA021		L.I.B. X LOGICS	0008550128	344401	.W. 0001862344
VA024		L.I.B. X LOGICS	0008550143	344401	.W. 0001862344
VA025		L.I.B. X LOGICS	0008550144	344401	.W. 0001862344
VA026		L.I.B. X LOGICS	0008550145	344401	.W. 0001862344
VA027		L.I.B. X LOGICS	0008550146	344401	.W. 0001862344
VA028		L.I.B. X LOGICS	0008550147	344401	.W. 0001862344
VA031		L.I.B. X LOGICS	0008550148	344401	.W. 0001862344
VA032		L.I.B. X LOGICS	0008550149	344401	.W. 0001862344
VA041		L.I.B. X LOGICS	0008550341	344401	.W. 0001862344
VA042		L.I.B. X LOGICS	0008550342	344401	.W. 0001862344
VA043		L.I.B. X LOGICS	0008550343	344401	.W. 0001862344
VA044		L.I.B. X LOGICS	0008550344	344401	.W. 0001862344
VA045		L.I.B. X LOGICS	0008550345	344401	.W. 0001862344
VA046		L.I.B. X LOGICS	0008550346	344401	.W. 0001862344
VA047		L.I.B. X LOGICS	0008550347	344852	.W. 0001862344
VA048		L.I.B. X LOGICS	0008550348	344401	.W. 0001862344
VA049		L.I.B. X LOGICS	0008550349	344401	.W. 0001862344
VA050		L.I.B. X LOGICS	0004499438	344852	.W. 0001862344
VA060		L.I.B. X LOGICS	0004499262	344401	.W. 0001862344
VA061		L.I.B. X LOGICS	0004499451	344401	.W. 0001862344
VA062		L.I.B. X LOGICS	0004499264	344401	.W. 0001862344
VA070		L.I.B. X LOGICS	0004499265	344401	.W. 0001862344
VA071		L.I.B. X LOGICS	0004499266	344401	.W. 0001862344
VA081		L.I.B. X LOGICS	0004499267	344401	.W. 0001862344
VA082		L.I.B. X LOGICS	0004499268	344401	.W. 0001862344
VA100		L.I.B. X LOGICS	0004499269	344401	.W. 0001862344

VOLUME 046 MACHINE 3705- -0080232 MODEL M81 SYSTEM 0002904 MODE BOX SHIP 81/12/11

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS		
VA101		L.I.B. X LOGICS	0004499270	344401	.W.	0001862344	
VA102		L.I.B. X LOGICS	0004499271	344401	.W.	0001862344	
VA103		L.I.B. X LOGICS	0004499272	344401	.W.	0001862344	
VA104		L.I.B. X LOGICS	0004499273	344401	.W.	0001862344	
VA105		L.I.B. X LOGICS	0004499274	344852	.W.	0001862344	
VA106		L.I.B. X LOGICS	0004499275	344852	.W.	0001862344	
VA107		L.I.B. X LOGICS	0004499276	344852	.W.	0001862344	
VA108		L.I.B. X LOGICS	0004499277	344852	.W.	0001862344	
VA109		L.I.B. X LOGICS	0004499278	344401	.W.	0001862344	
VA110		L.I.B. X LOGICS	0004499279	344401	.W.	0001862344	
VA111		L.I.B. X LOGICS	0004499280	344401	.W.	0001862344	
VA112		L.I.B. X LOGICS	0004499281	344401	.W.	0001862344	
VA113		L.I.B. X LOGICS	0004499282	344401	.W.	0001862344	
VA120		L.I.B. X LOGICS	0004499283	344401	.W.	0001862344	
VA121		L.I.B. X LOGICS	0004499284	344401	.W.	0001862344	
VA122		L.I.B. X LOGICS	0004499285	344401	.W.	0001862344	
VA123		L.I.B. X LOGICS	0004499286	344401	.W.	0001862344	
VA124		L.I.B. X LOGICS	0004499287	344401	.W.	0001862344	
VA125		L.I.B. X LOGICS	0004499288	344852	.W.	0001862344	
VA126		L.I.B. X LOGICS	0004499289	344852	.W.	0001862344	
VA127		L.I.B. X LOGICS	0004499290	344852	.W.	0001862344	
VA128		L.I.B. X LOGICS	0004499291	344852	.W.	0001862344	
VA129		L.I.B. X LOGICS	0004499292	344401	.W.	0001862344	
VA130		L.I.B. X LOGICS	0004499293	344401	.W.	0001862344	
VA131		L.I.B. X LOGICS	0004499294	344401	.W.	0001862344	
VA132		L.I.B. X LOGICS	0004499295	344401	.W.	0001862344	
VA133		L.I.B. X LOGICS	0004499296	344401	.W.	0001862344	
VA140		L.I.B. X LOGICS	0004499297	344401	.W.	0001862344	
VA141		L.I.B. X LOGICS	0004499298	344401	.W.	0001862344	
VA142		L.I.B. X LOGICS	0004499299	344401	.W.	0001862344	
VA143		L.I.B. X LOGICS	0004499300	344401	.W.	0001862344	
VA144		L.I.B. X LOGICS	0004499301	344401	.W.	0001862344	
VA145		L.I.B. X LOGICS	0004499302	344852	.W.	0001862344	
VA146		L.I.B. X LOGICS	0004499303	344852	.W.	0001862344	
VA147		L.I.B. X LOGICS	0004499304	344852	.W.	0001862344	
VA148		L.I.B. X LOGICS	0004499305	344852	.W.	0001862344	
VA149		L.I.B. X LOGICS	0004499306	344401	.W.	0001862344	
VA150		L.I.B. X LOGICS	0004499307	344401	.W.	0001862344	
VA151		L.I.B. X LOGICS	0004499308	344401	.W.	0001862344	
VA152		L.I.B. X LOGICS	0004499309	344401	.W.	0001862344	
VA153		L.I.B. X LOGICS	0004499310	344401	.W.	0001862344	.W. 0001862344
VA160		L.I.B. X LOGICS	0004499311	344401	.W.	0001862344	

VOLUME 046 MACHINE 3705- -0080232 MODEL M81 SYSTEM 0002904 MODE BOX SHIP 81/12/11

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
VA161		L.I.B. X LOGICS	0004499312	344401	.W. 0001862344
VA162		L.I.B. X LOGICS	0004499313	344401	.W. 0001862344
VA163		L.I.B. X LOGICS	0004499314	344401	.W. 0001862344
VA164		L.I.B. X LOGICS	0004499315	344401	.W. 0001862344
VA165		L.I.B. X LOGICS	0004499316	344852	.W. 0001862344
VA166		L.I.B. X LOGICS	0004499317	344852	.W. 0001862344
VA167		L.I.B. X LOGICS	0004499318	344852	.W. 0001862344
VA168		L.I.B. X LOGICS	0004499319	344852	.W. 0001862344
VA169		L.I.B. X LOGICS	0004499320	344401	.W. 0001862344
VA170		L.I.B. X LOGICS	0004499321	344401	.W. 0001862344
VA171		L.I.B. X LOGICS	0004499322	344401	.W. 0001862344
VA172		L.I.B. X LOGICS	0004499323	344401	.W. 0001862344
VA173		L.I.B. X LOGICS	0004499324	344401	.W. 0001862344
VA180		L.I.B. X LOGICS	0004499325	344401	.W. 0001862344
VA181		L.I.B. X LOGICS	0004499326	344401	.W. 0001862344
VA182		L.I.B. X LOGICS	0004499327	344401	.W. 0001862344
VA183		L.I.B. X LOGICS	0004499328	344401	.W. 0001862344
VA184		L.I.B. X LOGICS	0004499329	344401	.W. 0001862344
VA185		L.I.B. X LOGICS	0004499330	344852	.W. 0001862344
VA186		L.I.B. X LOGICS	0004499331	344852	.W. 0001862344
VA187		L.I.B. X LOGICS	0004499332	344852	.W. 0001862344
VA188		L.I.B. X LOGICS	0004499333	344852	.W. 0001862344
VA189		L.I.B. X LOGICS	0004499334	344401	.W. 0001862344
VA190		L.I.B. X LOGICS	0004499335	344401	.W. 0001862344
VA191		L.I.B. X LOGICS	0004499336	344401	.W. 0001862344
VA192		L.I.B. X LOGICS	0004499337	344401	.W. 0001862344
VA193		L.I.B. X LOGICS	0004499338	344401	.W. 0001862344
VA200		L.I.B. X LOGICS	0004499339	344401	.W. 0001862344
VA201		L.I.B. X LOGICS	0004499340	344401	.W. 0001862344
VA202		L.I.B. X LOGICS	0004499341	344401	.W. 0001862344
VA203		L.I.B. X LOGICS	0004499342	344401	.W. 0001862344
VA204		L.I.B. X LOGICS	0004499343	344401	.W. 0001862344
VA205		L.I.B. X LOGICS	0004499344	344852	.W. 0001862344
VA206		L.I.B. X LOGICS	0004499345	344852	.W. 0001862344
VA207		L.I.B. X LOGICS	0004499346	344852	.W. 0001862344
VA208		L.I.B. X LOGICS	0004499347	344852	.W. 0001862344
VA209		L.I.B. X LOGICS	0004499348	344401	.W. 0001862344
VA210		L.I.B. X LOGICS	0004499349	344401	.W. 0001862344
VA211		L.I.B. X LOGICS	0004499350	344401	.W. 0001862344
VA212		L.I.B. X LOGICS	0004499351	344401	.W. 0001862344
VA213		L.I.B. X LOGICS	0004499352	344401	.W. 0001862344
VA220		L.I.B. X LOGICS	0004499353	344401	.W. 0001862344

VOLUME 046 MACHINE 3705- -0080232 MODEL M81 SYSTEM 0002904 MODE BOX SHIP 81/12/11

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
VA221		L.I.B. X LOGICS	0004499354	344401	.W. 0001862344
VA222		L.I.B. X LOGICS	0004499355	344401	.W. 0001862344
VA223		L.I.B. X LOGICS	0004499356	344401	.W. 0001862344
VA224		L.I.B. X LOGICS	0004499357	344401	.W. 0001862344
VA225		L.I.B. X LOGICS	0004499358	344852	.W. 0001862344
VA226		L.I.B. X LOGICS	0004499359	344852	.W. 0001862344
VA227		L.I.B. X LOGICS	0004499360	344852	.W. 0001862344
VA228		L.I.B. X LOGICS	0004499361	344852	.W. 0001862344
VA232		L.I.B. X LOGICS	0004499362	344401	.W. 0001862344
VA240		L.I.B. X LOGICS	0004499363	344401	.W. 0001862344
VA241		L.I.B. X LOGICS	0004499364	344401	.W. 0001862344
VA242		L.I.B. X LOGICS	0004499365	344401	.W. 0001862344
VA243		L.I.B. X LOGICS	0004499366	344401	.W. 0001862344
VA244		L.I.B. X LOGICS	0004499367	344401	.W. 0001862344
VA245		L.I.B. X LOGICS	0004499368	344852	.W. 0001862344
VA246		L.I.B. X LOGICS	0004499369	344852	.W. 0001862344
VA247		L.I.B. X LOGICS	0004499370	344852	.W. 0001862344
VA248		L.I.B. X LOGICS	0004499371	344852	.W. 0001862344
VA252		L.I.B. X LOGICS	0004499372	344401	.W. 0001862344

TOTAL PART NUMBERS THIS VOLUME 145

LIB A LINE SET PLUG CHART BOARD 01A-A2 [1] [2] [5]

LINE SET TYPES	PIN AND LOCATION CHART	ALD PAGES	PARENT B/M	CARD/CABLE			PARTITION 1				PARTITION 2				PARTITION 3				PARTITION 4			
							LINES 0/1		LINES 2/3		LINES 4/5		LINES 6/7		LINES 8/9		LINES A/B		LINES C/D		LINES E/F	
				P/N	FUNCTION	BD A2	BD A2	I/O GT	BD A2	I/O GT	BD A2	I/O GT	BD A2	I/O GT	BD A2	I/O GT	BD A2	I/O GT	BD A2	I/O GT	BD A2	I/O GT
ALL		VA041 VA031 VA081		8218951 8211455 5862885	BIT CLOCK ISOLATION NOTE [3]	F2 G2 A4																
LINE SET 1 1- EIA SYNC HDX 2- EIA SYNC DX 3- EIA S/S 4- EIA S/S DIRECT ATTACH 5- EIA SYNC DIRECT ATTACH	VA003 [4] VA012 [4] VA003 [4] VA009 [4] VA010 [4]	VB060 VB060 VB060 VB060 VB060	1856426 SEE SHEET 3 OF 3	6173361 5997937	INTF/DRIVER/TERM CABLE		B2 U2	- R3	C2 U4	- R4	D2 V2	- S3	E2 V4	- S4	H2 U3	- T3	J2 U5	- T4	K2 V3	- U3	L2 V5	- U4
LINE SET 2 V35 HDX	VA008	VB140	1762995 1986971 SEE SHEET 3 OF 3	8211486 8214282 8214283 5997936 [4]	LINE INTERFACE DRIVER LINE TERM TOP CARD CABLE		B2 M2 R2 R2	- - - R2	C2 M4 R4 R4	- - - R4												
LINE SET 2 V35 DX	VA014	VB140	1762995 1986971 SEE SHEET 3 OF 3	8211486 8214282 8214283 5997936 [4]	LINE INTERFACE DRIVER LINE TERM TOP CARD CABLE		B2 M2 R2 R2	- - - R2	C2 M4 R4 R4	- - - R3												
LINE SET 3 DIGITAL HDX	VA006	VB100	1762997 1762998 SEE SHEET 3 OF 3	8211483 8231680 8211454 5997936 [4] 5997936	LINE INTERFACE DRIVER LINE TERM TOP CARD CABLE TOP CARD CABLE		B2 M2 R2 R2 R3	- - - R2 R3	C2 M4 R4 R4 R5	- - - R4 R5												
LINE SET 3 DIGITAL DX	VA013	VB120	1762997 SEE SHEET 3 OF 3	8211483 8231680 8211454 5997936 [4]	LINE INTERFACE DRIVER LINE TERM TOP CARD CABLE		B2 M2 R2 R2	- - - R2	C2 - - R3	- - - R3												
LINE SET 4 1- AUTO CALL FRENCH 2- AUTO CALL	VA005	VB080	1762994 SEE SHEET 3 OF 3	5857434 8211450 8211451 5997936 [4] 5997936	LINE INTERFACE DRIVER LINE TERM TOP CARD CABLE TOP CARD CABLE		B2 M2 R2 R2 R3	- - - R2 R3	C2 M4 R4 R4 R5	- - - R4 R5												
LINE SET 5 V35 LOCAL ATTACH HDX	VA015	VB150	1768284 1986971 SEE SHEET 3 OF 3	8211486 8254569 8254568 8254570 5997936 [4]	LINE INTERFACE DRIVER LINE TERM CLOCK TOP CARD CABLE		B2 M2 R2 G4 R2	- - - - R2	C2 M4 R4 - R4	- - - R4												
LINE SET 8 X.21 MEDIUM SPEED	VA017	VB200	1762969 1762999 1986973 SEE SHEET 3 OF 3	8548956 8548832 8548722 5997936 [4] 5997936	LINE INTERFACE CONTROL DRIVER/RECEIVER TOP CARD CABLE TOP CARD CABLE		B2 M2 R2 R2 R3	- - - R2 R3	C2 M4 R4 R4 R5	- - - R4 R5												
LINE SET 9 X.21 HIGH SPEED	VA017	VB200	1762969 1362384 SEE SHEET 3 OF 3	8548956 8548832 8548722 5997936 [4]	LINE INTERFACE CONTROL DRIVER/RECEIVER TOP CARD CABLE		B2 M2 R2 R2	- - - R2	- - - R3	- - - R3												

[1] LIB BOARD P/N 1762992

[2] LIB FEATURE BILLS
B/M 1856422
B/M 1762990

[3] MOVE 5862885 CARD FROM LIB A TO LIB B WHEN LIB B IS INSTALLED.

[4] REFERENCE VA004 FOR LINE SET 1 CARD JUMPERING REQUIREMENTS.

[5] REFER TO SHEET 4 FOR LINE POSITIONS AND ADDRESSING REQUIREMENTS

IBM

NAME	LIB TYPE X LINE SET PLUG CHART	
DESIGN	DEL	NOV80
DETAIL	TS	NOV80
CHECK		
APPRO	DEL	NOV80
	SHT 1 OF 4	

DATE	CHANGE NO
NOV80	344401
APR81	344852
OCT81	344866

MUST CONFORM TO ENG SPEC

DEVELOPMENT NO

LOGIC PG NO VA000

LIB B LINE SET PLUG CHART BOARD 01A-A1 NOTE [1] [2] [5]

LINE SET TYPE	PIN AND LOCATION CHART	ALD PAGES	PARENT B/M	CARD/CABLE P/N	CARD/CABLE FUNCTION	CARD/CABLE BD A1	PARTITION 5 LINES 0/1 BD A1	PARTITION 5 LINES 0/1 I/O GT	PARTITION 5 LINES 2/3 BD A1	PARTITION 5 LINES 2/3 I/O GT	PARTITION 6 LINES 4/5 BD A1	PARTITION 6 LINES 4/5 I/O GT	PARTITION 6 LINES 6/7 BD A1	PARTITION 6 LINES 6/7 I/O GT	PARTITION 7 LINES 8/9 BD A1	PARTITION 7 LINES 8/9 I/O GT	PARTITION 7 LINES A/B BD A1	PARTITION 7 LINES A/B I/O GT	PARTITION 8 LINES C/D BD A1	PARTITION 8 LINES C/D I/O GT	PARTITION 8 LINES E/F BD A1	PARTITION 8 LINES E/F I/O GT
ALL		VA041 VA031 VA081		8218951 8211455 5862885	BIT CLOCK ISOLATION [3]	F2 G2 A4																
LINE SET 1 1- EIA SYNC HDX 2- EIA SYNC DX 3- EIA S/S 4- EIA S/S DIRECT ATTACH 5- EIA SYNC DIRECT ATTACH	VAC03 [4] VA012 [4] VA003 [4] VA009 [4] VA010 [4]	VB060 VB060 VB060 VB060 VB060	1856426 SEE SHEET 3 OF 3	6173361 5997937	INTF/DRIVER/TERM CABLE	B2 U2	- R3	C2 U4	- R4	D2 V2	- S3	E2 V4	- S4	H2 U3	- T3	J2 U5	- T4	K2 V3	- U3	L2 V5	- U4
LINE SET 8 X.21 MEDIUM SPEED	VA017	VB200	1762969 1762999 SEE SHEET 3 OF 3	8548956 8548832 8548722 5997936 5997936 [4]	INTERFACE CONTROL DRIVER/RECEIVER TOP CARD CABLE TOP CARD CABLE	B2 M2 R2 R2 R3	- - - R2 R3	C2 M4 R4 R4 R5	- - - R4 R5	D2 N2 S2 S2 S3	- - - S2 S3	E2 N4 S4 S4 S5	- - - S4 S5	H2 P2 T2 T2 T3	- - - T2 T3	J2 P4 T4 T4 T5	- - - T4 T5				

[1] LIB BOARD P/N 1762992

[2] LIB FEATURE BILLS
B/M 1856422
B/M 1762991

[3] MOVE 5862885 CARD FROM LIB A TO LIB B WHEN WHEN LIB B IS INSTALLED.

[4] REFERENCE VAC04 FOR LINE SET 1 CARD JUMPERING REQUIREMENTS.

[5] REFER TO SHEET 4 FOR LINE POSITIONS AND ADDRESSING REQUIREMENTS

	NAME	DATE	CHANGE NO
DESIGN	DEL	NOV80	
DETAIL	TS	NOV80	344852
CHK		OCT81	344866
APPRO		APR81	
	DEL	NOV80	344401

FTY

LIB TYPE X LINE SET PLUG CHART

SHT 2 OF 4

MUST CONFORM TO ENG SPEC

DEVELOPMENT NO

LOGIC PG NO VA000

PART NO 5153983

LOGIC PG NO VA 000

SHEET 2 OF 4

LINE SET B/M(S) BY PARTITION AND MODE [7]

	PARTITION 1	PARTITION 2	PARTITION 3	PARTITION 4	PARTITION 5	PARTITION 6	PARTITION 7	PARTITION 8
LINE SET 1 HDX	1768262 [1]	1768264 [2]	1768266 [2]	1768268 [1]	1768270 [3]	1768272 [3]	1768274 [3]	1768276 [1]
LINE SET 1 DX	1768263 [1]	1768265 [2]	1768267 [2]	1768269 [1]	1768271 [3]	1768273 [3]	1768275 [3]	1768277 [1]
LINE SET 2 HDX	1762996 [5]							
LINE SET 2 DX	1768290 [5]							
LINE SET 3 HDX	1768288 [5]							
LINE SET 3 DX	1768289 [5]							
LINE SET 4	1768260 [5]							
LINE SET 5 14.4K	1645337 [5]							
LINE SET 5 57.6K	1768259 [5]							
LINE SET 8 SWITCHED	1762970 [5]				1768279 [4]	1768281 [4]	1768283 [4]	
LINE SET 8 NON-SW	1762973 [5]				1768278 [4]	1768280 [4]	1768282 [4]	
LINE SET 9 SWITCHED	1762971 [5]							
LINE SET 9 NON-SW	1762972 [5]							

[1] 3705 MODEL 83 ONLY
[2] BASIC LINE SETS ALL MODELS
[3] 3705 MODELS 82 AND 83 ONLY
[4] 3705 MODEL 84 ONLY
[5] 3705 MODELS 81,82 AND 84
[6] LINE SETS NOT ALLOWED IN BLANK SQUARES
[7] REFER TO SHEET 4 FOR LINE POSTIONS AND ADDRESSING REQUIREMENTS

IBM

NAME: LINE SET B/M(S) BY PARTITION AND MODE

DESIGN	DEL	NOV80	SHT 3 OF 4
DETAIL	TS	NOV80	CLASSIFICATION
CHECK			
APPRO			DEL NOV80

DATE	CHANGE NO	DATE	CHANGE NO
NOV80	344401		
APR81	344852		
OCT81	344866		

MUST CONFORM TO ENG SPEC

DEVELOPMENT NO

LOGIC PG NO VA000

LINE POSITION AND ADDRESSING REQUIREMENTS

PARTITION WITHIN LIB * [1]	LINE INTERFACE ADDRESS ON LIB	LS1 [4] EIA START/STOP EXTERNAL MODEM	LS1 [4] EIA SYNCHRONOUS HALF-DUPLEX EXTERNAL MODEM	LS1 [4] EIA SYNCHRONOUS DUPLEX EXTERNAL MODEM	LS1 [4] EIA START/STOP LOCAL ATTACHMENT	LS1 [4] EIA SYNCHRONOUS LOCAL ATTACHMENT	LS2 [2] V.35 INTERFACE HALF-DUPLEX	LS2 [2] V.35 INTERFACE DUPLEX	LS3 [2] DIGITAL SYNCHRONOUS HALF-DUPLEX	LS3 [2] DIGITAL SYNCHRONOUS DUPLEX	LS4 [2] AUTOCALL LINE	LS5 [2] V.35 INTERFACE LOCAL ATTACHMENT HALF-DUPLEX	LS8 [3] CCITT X.21 LINE HALF-DUPLEX MEDIUM SPEED	LS8 [3] CCITT X.21 LINE DUPLEX MEDIUM SPEED	LS9 [2] CCITT X.21 LINE HALF-DUPLEX HIGH SPEED	LS9 [2] CCITT X.21 LINE DUPLEX HIGH SPEED
1	0	X	X	T	X	X	X	T	X	T	A	X	X	T	Y	T
	1	–	–	R	–	–	*	*	*	*	A	*	–	R	*	*
	2	X	X	T	X	X	X	R	X	R	A	X	X	T	*	R
	3	–	–	R	–	–	*	*	*	*	A	*	–	R	*	*
2	4	X	X	T	X	X							X	T		
	5	–	–	R	–	–	NA	NA	NA	NA	NA	NA	–	R	NA	NA
	6	X	X	T	X	X							X	T		
	7	–	–	R	–	–	NA	NA	NA	NA	NA	NA	–	R	NA	NA
3	8	X	X	T	X	X							X	T		
	9	–	–	R	–	–	NA	NA	NA	NA	NA	NA	–	R	NA	NA
	A	X	X	T	X	X							X	T		
	B	–	–	R	–	–	NA	NA	NA	NA	NA	NA	–	R	NA	NA
4	C	X	X	T	X	X										
	D	–	–	R	–	–	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	E	X	X	T	X	X										
	F	–	–	R	–	–	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES

[1] PARTITION DESIGNATIONS FOR LIB B ARE 5,6,7, AND 8
[2] ONLY AVAILABLE IN PARTITION 1
[3] ONLY AVAILABLE IN PARTITIONS 1,5,6, AND 7
[4] 3705 MODEL 81 CONTAINS LS1'S IN PARTITIONS 2 AND 3 STANDARD
3705 MODEL 82 CONTAINS LS1'S IN PARTITIONS 2,3,5,6, AND 7 STANDARD
3705 MODEL 83 CONTAINS LS1'S IN ALL PARTITIONS (1 THRU 8) STANDARD
3705 MODEL 84 CONTAINS LS1'S IN PARTITIONS 2 AND 3 AND LS8'S IN PARTITIONS 5,6 AND 7 STANDARD

LEGEND

X | DENOTES AN ADDRESS USED FOR A SINGLE LINE INTERFACE LINE SET.
– | – IS AN UNUSED ADDRESS.
X | DENOTES A PAIR OF ADDRESSES REQUIRED FOR THIS LINE SET AND MODE OF OPERATION.
* | * IS AN UNUSED ADDRESS.
T | DENOTES A PAIR OF ADDRESSES REQUIRED FOR THIS LINE SET AND MODE OF OPERATION.
R | LOW ORDER ADDRESS OF PAIR IS TRANSMIT. HIGH ORDER ADDRESS IS RECEIVE.
T | DENOTES FOUR ADDRESSES REQUIRED THIS LINE SET. THESE LINE SETS USE TWO
* | INTERFACES CABLED INTO A SINGLE MODEM. THE LINE SETS MUST HAVE ADJACENT
R | ADDRESSES. THE TRANSMIT ADDRESS MUST BE THE LOW ORDER ADDRESS. THE
* | RECEIVE ADDRESS MUST BE THE HIGH ORDER ADDRESS. * IS AN UNUSED ADDRESS.
Y | DENOTES AN ADDRESS REQUIRED FOR THIS LINE SET AND MODE OF OPERATION.
* | * IS AN UNUSED ADDRESS.
* |
* |
A | DENOTES A PAIR OF ADDRESSES USED FOR TWO AUTOCALL INTERFACES, IF INSTALLED
A |

IBM
NAME: LIB TYPE X LINE POSITION AND ADDRESSING REQUIREMENTS
DESIGN: DJR OCT81 | SHT 4 OF 4
DETAIL: RTS OCT81
CHECK
APPRO: DJR OCT81
CLASSIFICATION
MUST CONFORM TO ENG SPEC
DEVELOPMENT NO
LOGIC PG NO: VA000
DATE: OCT81 | CHANGE NO: 344866
DATE | CHANGE NO
5153983 C

RECORD PURPOSE ONLY MES INSTALLATION INSTRUCTIONS

THE VA000A PAGES SUPPLY INSTRUCTIONS TO PERFORM MODE, SPEED AND START/STOP LOCAL ATTACH CHANGES ON CERTAIN 3705-80 LINE SETS WITHOUT RECEIVING AN MES PACKAGE FROM THE MANUFACTURING PLANT. DESCRIPTIONS AND THE INFORMATION/PARTS/TOOLS REQUIRED TO PERFORM THE TEN SUPPORTED CHANGES ARE LISTED BELOW AND ON THE NEXT TWO SHEETS (A THRU J). READ THE NOTES BELOW, THE DESCRIPTION OF THE CHANGE ON THIS SHEET OR THE NEXT TWO SHEETS (A THRU J), AND SKIP TO THE APPLICABLE SECTION OF THESE INSTRUCTIONS AS INDICATED IN THE DESCRIPTION OF THE CHANGE.

NOTE 1: REMOVE ALL ELECTRICAL POWER FROM THE MACHINE AND ASSOCIATED MACHINES BEFORE THE INSTALLATION BEGINS.

NOTE 2: IN COUNTRIES THAT REQUIRE AN MES NUMBER FOR TIME ACCOUNTING PURPOSES, YOUR LOCAL IBM SALES REPRESENTATIVE MUST SUPPLY YOU WITH A RECORD PURPOSE ONLY MES NUMBER.

NOTE 3: SUMMARY OF A THRU J BELOW AND ON THE NEXT TWO SHEETS.

A. CHANGE THE MODE OF AN RS232C/V.24 LS-1 INTERFACE FROM DUPLEX TO HALF DUPLEX (SPECIFY 9720).
B. CHANGE THE MODE OF AN RS232C/V.24 LS-1 INTERFACE FROM HALF DUPLEX TO DUPLEX (SPECIFY 9721).
C. REMOVE START/STOP LOCAL ATTACH JUMPERING FROM A RS232C/V.24 LS-1 INTERFACE (SPECIFY 9723).
D. INSTALL START/STOP LOCAL ATTACH JUMPERING ON A RS232C/V.24 LS-1 INTERFACE (SPECIFY 9722).
E. CHANGE THE SPEED OF A V.35 LOCAL ATTACH LS-5 FROM 57.6 TO 14.4 KBPS (SPECIFY 9830).
F. CHANGE THE SPEED OF A V.35 LOCAL ATTACH LS-5 FROM 14.4 TO 57.6 KBPS (SPECIFY 9832).
G. CHANGE THE MODE OF AN X.21 LS-9 INTERFACE FROM SWITCHED TO NON SWITCHED (SPECIFY 9778).
H. CHANGE THE MODE OF AN X.21 LS-9 INTERFACE FROM NON SWITCHED TO SWITCHED (SPECIFY 9776).
I. CHANGE THE MODE OF AN X.21 LS-8 INTERFACE FROM SWITCHED TO NON SWITCHED (SPECIFY 9725).
J. CHANGE THE MODE OF AN X.21 LS-8 INTERFACE FROM NON SWITCHED TO SWITCHED (SPECIFY 9724).

A. CHANGE THE MODE OF AN RS232C/V.24 LINE SET 1 INTERFACE FROM DUPLEX TO HALF DUPLEX (RECORD PURPOSE ONLY MES SPECIFY CODE 9720).

COMPLETE SECTION 1.0 ON SHEET 4 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION/TOOLS:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9720 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.
3. SYSGEN ADDRESS OF THE LINE REQUIRING A DUPLEX TO HALF DUPLEX MODE CHANGE OR SYSGEN ADDRESSES, IF MULTIPLE LINES ARE BEING CHANGED FROM DUPLEX TO HALF DUPLEX. ALL POSSIBLE SYSGEN ADDRESSES THAT MAY BE AFFECTED ARE LISTED IN SECTION 1.0 ON SHEET 4.
4. A WIRE WRAP REMOVAL TOOL MAY BE REQUIRED.

B. CHANGE THE MODE OF AN RS232C/V.24 LINE SET 1 INTERFACE FROM HALF DUPLEX TO DUPLEX (RECORD PURPOSE ONLY MES SPECIFY CODE 9721).

COMPLETE SECTION 2.0 ON SHEET 5 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION/PARTS/TOOLS:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9721 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.
3. AT LEAST ONE OF THE TWO SYSGEN ADDRESSES ASSOCIATED WITH EACH LINE REQUIRING A HALF DUPLEX TO DUPLEX MODE CHANGE. ALL POSSIBLE SYSGEN ADDRESSES THAT MAY BE AFFECTED ARE LISTED IN SECTION 2.0 ON SHEET 5.
4. ONE OF JUMPER P/N 815925 OR AN MST REWORK KIT IS REQUIRED FOR EACH LINE REQUIRING A HALF DUPLEX DUPLEX MODE CHANGE. JUMPER P/N 815925 IS A STANDARD JUMPER WITH THE MIDDLE CONTACT MISSING (WILL SPAN BOARD PINS P06 TO P08).

C. REMOVE START/STOP LOCAL ATTACH JUMPERING FOR AN RS232C/V.24 LINE SET 1 INTERFACE (RECORD PURPOSE ONLY MES SPECIFY CODE 9723).

COMPLETE SECTION 3.0 ON SHEETS 6 AND 7 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION/PARTS/TOOLS:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9723 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.
3. SYSGEN ADDRESS OF THE LINE REQUIRING START/STOP LOCAL ATTACH JUMPERING REMOVAL OR SYSGEN ADDRESSES, IF START/STOP LOCAL ATTACH JUMPERING IS BEING REMOVED FOR MULTIPLE LINES. ALL POSSIBLE SYSGEN ADDRESSES THAT MAY BE AFFECTED ARE LISTED IN SECTION 3.0 ON SHEET 6.
4. ONE OF JUMPER P/N 815925 OR AN MST REWORK KIT IS REQUIRED FOR EACH LINE INTERFACE HAVING START/STOP JUMPERING REMOVED AND ALSO REQUIRING A HALF DUPLEX TO DUPLEX MODE CHANGE. JUMPER P/N 815925 IS A STANDARD JUMPER WITH THE MIDDLE CONTACT MISSING (WILL SPAN BOARD PINS P06 AND P08).

D. INSTALL START/STOP LOCAL ATTACH JUMPERING FOR AN RS232C/V.24 LINE SET 1 INTERFACE (RECORD PURPOSE ONLY MES SPECIFY CODE 9722).

COMPLETE SECTION 4.0 ON SHEETS 8 AND 9 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION/TOOLS:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9722 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.
3. SYSGEN ADDRESS OF THE LINE REQUIRING START/STOP LOCAL ATTACH JUMPERING OR SYSGEN ADDRESSES, IF MULTIPLE LINES ARE BEING JUMPERED FOR START/STOP LOCAL ATTACH. ALL POSSIBLE SYSGEN ADDRESSES THAT MAY BE AFFECTED ARE LISTED IN SECTION 4.0 ON SHEET 8.
4. A WIRE WRAP REMOVAL TOOL MAY BE REQUIRED.

E. CHANGE THE SPEED OF A V.35 LOCAL ATTACH LINE SET 5 FROM 57.6 KBPS TO 14.4 KBPS (RECORD PURPOSE ONLY MES SPECIFY CODE 9830).

COMPLETE SECTION 5.0 ON THE TOP HALF OF SHEET 10 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9830 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.

F. CHANGE THE SPEED OF A V.35 LOCAL ATTACH LINE SET 5 FROM 14.4 KBPS TO 57.6 KBPS (RECORD PURPOSE ONLY MES SPECIFY CODE 9832).

COMPLETE SECTION 6.0 ON THE BOTTOM HALF OF SHEET 10 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9832 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.

G. CHANGE THE MODE OF AN X.21 LINE SET 9 INTERFACE FROM SWITCHED TO NON SWITCHED (RECORD PURPOSE ONLY SPECIFY CODE 9778).

COMPLETE SECTION 7.0 ON SHEET 11 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9778 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.

H. CHANGE THE MODE OF AN X.21 LINE SET 9 INTERFACE FROM NON SWITCHED TO SWITCHED (RECORD PURPOSE ONLY SPECIFY CODE 9776).

COMPLETE SECTION 8.0 ON SHEET 12 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION/PARTS.

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9776 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.
3. ONE OF JUMPER P/N 816645 IS REQUIRED. JUMPER P/N 816645 IS A STANDARD PIN TO ADJACENT PIN JUMPER.

I. CHANGE THE MODE OF AN X.21 LINE SET 8 INTERFACE FROM SWITCHED TO NON SWITCHED (RECORD PURPOSE ONLY SPECIFY CODE 9725).

COMPLETE SECTION 9.0 ON SHEET 13 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION:

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9725 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.
3. AT LEAST ONE OF THE TWO SYSGEN ADDRESSES ASSOCIATED WITH EACH X.21 LINE INTERFACE REQUIRING A A SWITCHED TO NON SWITCHED MODE CHANGE. ALL POSSIBLE SYSGEN ADDRESSES THAT MAY BE AFFECTED ARE LISTED IN SECTION 9.0 ON SHEET 13. HALF DUPLEX OPERATION USES ONLY EVEN SYSGEN ADDRESSES.

J. CHANGE THE MODE OF AN X.21 LINE SET 8 INTERFACE FROM NON SWITCHED TO SWITCHED (RECORD PURPOSE ONLY SPECIFY CODE 9724).

COMPLETE SECTION 10.0 ON SHEET 14 OF THESE INSTRUCTIONS AFTER DETERMINING THAT YOU HAVE THE FOLLOWING INFORMATION/PARTS.

1. RECORD PURPOSE ONLY MES NUMBER, IF REQUIRED.
2. SPECIFY CODE 9724 FROM IBM SALES REPRESENTATIVE OR DESCRIPTION AS IN THIS HEADING.
3. AT LEAST ONE OF THE TWO SYSGEN ADDRESSES ASSOCIATED WITH EACH X.21 LINE INTERFACE REQUIRING A A NON SWITCHED TO SWITCHED MODE CHANGE. ALL POSSIBLE SYSGEN ADDRESSES THAT MAY BE AFFECTED ARE LISTED IN SECTION 10.0 ON SHEET 14. HALF DUPLEX OPERATION USES ONLY EVEN SYSGEN ADDRESSES.
4. ONE OF JUMPER P/N 816645 IS REQUIRED FOR EACH LINE REQUIRING A NON SWITCHED TO SWITCHED MODE CHANGE. JUMPER P/N 816645 IS A STANDARD PIN TO ADJACENT PIN JUMPER.

THIS SPACE INTENTIONALLY LEFT BLANK

1.0 CHANGE THE MODE OF AN RS232C/V.24 LINE SET 1 INTERFACE FROM DUPLEX TO HALF DUPLEX (RECORD PURPOSE ONLY MES SPECIFY CODE 9720).

NOTE: THE CHARTS ON THIS SHEET SHOW ALL POSSIBLE RS232C/V.24 HALF DUPLEX SYSGEN ADDRESS POSITIONS ON THE 3705-80 SERIES OF MACHINES. DEPENDENT UPON YOUR 3705-80 MODEL, ALL OF THE ADDRESS POSITIONS LISTED MAY NOT BE PHYSICALLY INSTALLED. THE PHYSICALLY INSTALLED ADDRESSES ARE LISTED BELOW BY MODEL. HALF DUPLEX OPERATION USES ONLY THE EVEN ADDRESSES.

MODEL 81-ADDRESSES 024/025, 026/027, 028/029, 02A/02B
MODEL 82-ADDRESSES 024/025, 026/027, 028/029, 02A/02B, 030/031
032/033, 034/035, 036/037, 038/039, 03A/03B
MODEL 83-ADDRESSES 020/021, 022/023, 024/025, 026/027, 028/029, 02A/02B, 02C/02D, 02E/02F
030/031, 032/033, 034/035, 036/037, 038/039, 03A/03B, 03C/03D, 03E/03F
MODEL 84-ADDRESSES 024/025, 026/027, 028/029, 02A/02B

1.1 PER THE CHART BELOW, REMOVE A JUMPER OR WIRE FROM THE BOARD PINS ASSOCIATED WITH THE SYSGEN ADDRESS REQUIRING A DUPLEX TO HALF DUPLEX MODE CHANGE, REPEATING THE JUMPER OR WIRE REMOVAL FOR EACH ADDRESS AFFECTED, IF MULTIPLE DUPLEX TO HALF DUPLEX MODE CHANGES ARE BEING PERFORMED VIA THIS RECORD PURPOSE ONLY MES. IF NO JUMPER OR WIRE IS PRESENT AT THE AFFECTED BOARD PIN LOCATIONS, REVERIFY THE ADDRESS(ES) AFFECTED WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

SYSGEN ADDRESS	BOARD	BOARD PINS	DESCRIPTION
020	01A-A2	B2P06 TO P08	LIB A LINE 0 PARTITION=1
022	01A-A2	C2P06 TO P08	LIB A LINE 1 PARTITION=1
024	01A-A2	D2P06 TO P08	LIB A LINE 2 PARTITION=2
026	01A-A2	E2P06 TO P08	LIB A LINE 3 PARTITION=2
028	01A-A2	H2P06 TO P08	LIB A LINE 4 PARTITION=3
02A	01A-A2	J2P06 TO P08	LIB A LINE 5 PARTITION=3
02C	01A-A2	K2P06 TO P08	LIB A LINE 6 PARTITION=4
02E	01A-A2	L2P06 TO P08	LIB A LINE 7 PARTITION=4
030	01A-A1	B2P06 TO P08	LIB B LINE 0 PARTITION=5
032	01A-A1	C2P06 TO P08	LIB B LINE 1 PARTITION=5
034	01A-A1	D2P06 TO P08	LIB B LINE 2 PARTITION=6
036	01A-A1	E2P06 TO P08	LIB B LINE 3 PARTITION=6
038	01A-A1	H2P06 TO P08	LIB B LINE 4 PARTITION=7
03A	01A-A1	J2P06 TO P08	LIB B LINE 5 PARTITION=7
03C	01A-A1	K2P06 TO P08	LIB B LINE 6 PARTITION=8
03E	01A-A1	L2P06 TO P08	LIB B LINE 7 PARTITION=8

1.2 PER THE CHART BELOW, UPDATE THE CDS TO REFLECT THE MODE OF THE ADDRESS POSITION OR POSITIONS THAT WERE CHANGED FROM DUPLEX TO HALF DUPLEX.

CARD	CARD COLUMN	CARD PUNCH	CDS BYTE LOCATION	MODE	SYSGEN ADDRESS	DESCRIPTION
4	24-25	04	0F5A	HDX	020	LIB A LINE 0 PARTITION=1
4	26-27	04	0F5B	HDX	022	LIB A LINE 1 PARTITION=1
4	28-29	04	0F5C	HDX	024	LIB A LINE 2 PARTITION=2
4	30-31	04	0F5D	HDX	026	LIB A LINE 3 PARTITION=2
4	32-33	04	0F5E	HDX	028	LIB A LINE 4 PARTITION=3
4	34-35	04	0F5F	HDX	02A	LIB A LINE 5 PARTITION=3
4	36-37	04	0F60	HDX	02C	LIB A LINE 6 PARTITION=4
4	38-39	04	0F61	HDX	02E	LIB A LINE 7 PARTITION=4
4	40-41	04	0F62	HDX	030	LIB B LINE 0 PARTITION=5
4	42-43	04	0F63	HDX	032	LIB B LINE 1 PARTITION=5
4	44-45	04	0F64	HDX	034	LIB B LINE 2 PARTITION=6
4	46-47	04	0F65	HDX	036	LIB B LINE 3 PARTITION=6
4	48-49	04	0F66	HDX	038	LIB B LINE 4 PARTITION=7
4	50-51	04	0F67	HDX	03A	LIB B LINE 5 PARTITION=7
4	52-53	04	0F68	HDX	03C	LIB B LINE 6 PARTITION=8
4	54-55	04	0F69	HDX	03E	LIB B LINE 7 PARTITION=8

1.3 IF THE MODE CHANGE IS TO BE CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F2, WRAPPING THE RS232C/V.24 HALF DUPLEX INTERFACE WITH ANOTHER HALF DUPLEX RS232C/V.24 INTERFACE.

1.4 THIS COMPLETES THE RS232C/V.24 DUPLEX TO HALF DUPLEX MODE CHANGE.

2.0 CHANGE THE MODE OF AN RS232C/V.24 LINE SET 1 INTERFACE FROM HALF DUPLEX TO DUPLEX (RECORD PURPOSE ONLY MES SPECIFY CODE 9721).

NOTE: THE CHARTS ON THIS SHEET SHOW ALL POSSIBLE RS232C/V.24 DUPLEX SYSGEN ADDRESS POSITIONS ON THE 3705-80 SERIES OF MACHINES. DEPENDENT UPON YOUR 3705-80 MODEL, ALL OF THE ADDRESS POSITIONS LISTED MAY NOT BE PHYSICALLY INSTALLED. THE PHYSICALLY INSTALLED ADDRESSES ARE LISTED BELOW BY MODEL.

MODEL 81-ADDRESSES 024/025, 026/027, 028/029, 02A/02B
MODEL 82-ADDRESSES 024/025, 026/027, 028/029, 02A/02B, 030/031
032/033, 034/035, 036/037, 038/039, 03A/03B
MODEL 83-ADDRESSES 020/021, 022/023, 024/025, 026/027, 028/029, 02A/02B, 02C/02D, 02E/02F
030/031, 032/033, 034/035, 036/037, 038/039, 03A/03B, 03C/03D, 03E/03F
MODEL 84-ADDRESSES 024/025, 026/027, 028/029, 02A/02B

2.1 PER THE CHART BELOW, ADD A JUMPER, P/N 815925, OR A WIRE BETWEEN THE BOARD PINS ASSOCIATED WITH THE SYSGEN ADDRESSES REQUIRING A HALF DUPLEX TO DUPLEX MODE CHANGE, REPEATING THE JUMPER OR WIRE ADD FOR EACH GROUP OF ADDRESSES AFFECTED, IF MULTIPLE HALF DUPLEX TO DUPLEX MODE CHANGES ARE BEING PERFORMED VIA THIS RECORD PURPOSE ONLY MES. IF A JUMPER OR WIRE IS ALREADY PRESENT AT THE AFFECTED BOARD PIN LOCATIONS, REVERIFY THE ADDRESSES AFFECTED WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

SYSGEN ADDRESSES	BOARD	BOARD PINS	DESCRIPTION
020/021	01A-A2	B2P06 TO P08	LIB A LINE 0 PARTITION=1
022/023	01A-A2	C2P06 TO P08	LIB A LINE 1 PARTITION=1
024/025	01A-A2	D2P06 TO P08	LIB A LINE 2 PARTITION=2
026/027	01A-A2	E2P06 TO P08	LIB A LINE 3 PARTITION=2
028/029	01A-A2	H2P06 TO P08	LIB A LINE 4 PARTITION=3
02A/02B	01A-A2	J2P06 TO P08	LIB A LINE 5 PARTITION=3
02C/02D	01A-A2	K2P06 TO P08	LIB A LINE 6 PARTITION=4
02E/02F	01A-A2	L2P06 TO P08	LIB A LINE 7 PARTITION=4
030/031	01A-A1	B2P06 TO P08	LIB B LINE 0 PARTITION=5
032/033	01A-A1	C2P06 TO P08	LIB B LINE 1 PARTITION=5
034/035	01A-A1	D2P06 TO P08	LIB B LINE 2 PARTITION=6
036/037	01A-A1	E2P06 TO P08	LIB B LINE 3 PARTITION=6
038/039	01A-A1	H2P06 TO P08	LIB B LINE 4 PARTITION=7
03A/03B	01A-A1	J2P06 TO P08	LIB B LINE 5 PARTITION=7
03C/03D	01A-A1	K2P06 TO P08	LIB B LINE 6 PARTITION=8
03E/03F	01A-A1	L2P06 TO P08	LIB B LINE 7 PARTITION=8

2.2 PER THE CHART BELOW, UPDATE THE CDS TO REFLECT THE MODE OF THE ADDRESS POSITION OR POSITIONS THAT WERE CHANGED FROM HALF DUPLEX TO DUPLEX.

CARD	CARD COLUMN	CARD PUNCH	CDS BYTE LOCATION	MODE	SYSGEN ADDRESS(ES)	DESCRIPTION
4	24-25	08	0F5A	DX	020/021	LIB A LINE 0 PARTITION=1
4	26-27	08	0F5B	DX	022/023	LIB A LINE 1 PARTITION=1
4	28-29	08	0F5C	DX	024/025	LIB A LINE 2 PARTITION=2
4	30-31	08	0F5D	DX	026/027	LIB A LINE 3 PARTITION=2
4	32-33	08	0F5E	DX	028/029	LIB A LINE 4 PARTITION=3
4	34-35	08	0F5F	DX	02A/02B	LIB A LINE 5 PARTITION=3
4	36-37	08	0F60	DX	02C/02D	LIB A LINE 6 PARTITION=4
4	38-39	08	0F61	DX	02E/02F	LIB A LINE 7 PARTITION=4
4	40-41	08	0F62	DX	030/031	LIB B LINE 0 PARTITION=5
4	42-43	08	0F63	DX	032/033	LIB B LINE 1 PARTITION=5
4	44-45	08	0F64	DX	034/035	LIB B LINE 2 PARTITION=6
4	46-47	08	0F65	DX	036/037	LIB B LINE 3 PARTITION=6
4	48-49	08	0F66	DX	038/039	LIB B LINE 4 PARTITION=7
4	50-51	08	0F67	DX	03A/03B	LIB B LINE 5 PARTITION=7
4	52-53	08	0F68	DX	03C/03D	LIB B LINE 6 PARTITION=8
4	54-55	08	0F69	DX	03E/03F	LIB B LINE 7 PARTITION=8

2.3 IF THE MODE CHANGE IS TO BE CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F2, WRAPPING THE RS232C/V.24 TRANSMIT ADDRESS WITH THE RECEIVE ADDRESS FOR EACH OF THE LINE INTERFACES THAT HAD A HALF DUPLEX TO DUPLEX MODE CHANGE.

2.4 THIS COMPLETES THE RS232C/V.24 DUPLEX TO HALF DUPLEX MODE CHANGE.

3.0 REMOVE START/STOP LOCAL ATTACH JUMPERING FOR AN RS232C/V.24 LINE SET 1 INTERFACE (RECORD PURPOSE ONLY MES SPECIFY CODE 9723).

NOTE: THE CHART ON THIS SHEET SHOWS ALL POSSIBLE RS232C/V.24 SYSGEN ADDRESS POSITIONS ON THE THE 3705-80 SERIES OF MACHINES. DEPENDENT UPON YOUR 3705-80 MODEL, ALL OF THE ADDRESS POSITIONS LISTED MAY NOT BE PHYSICALLY INSTALLED. THE PHYSICALLY INSTALLED ADDRESSES ARE LISTED BELOW BY MODEL. HALF DUPLEX OPERATION USES ONLY THE EVEN ADDRESSES.

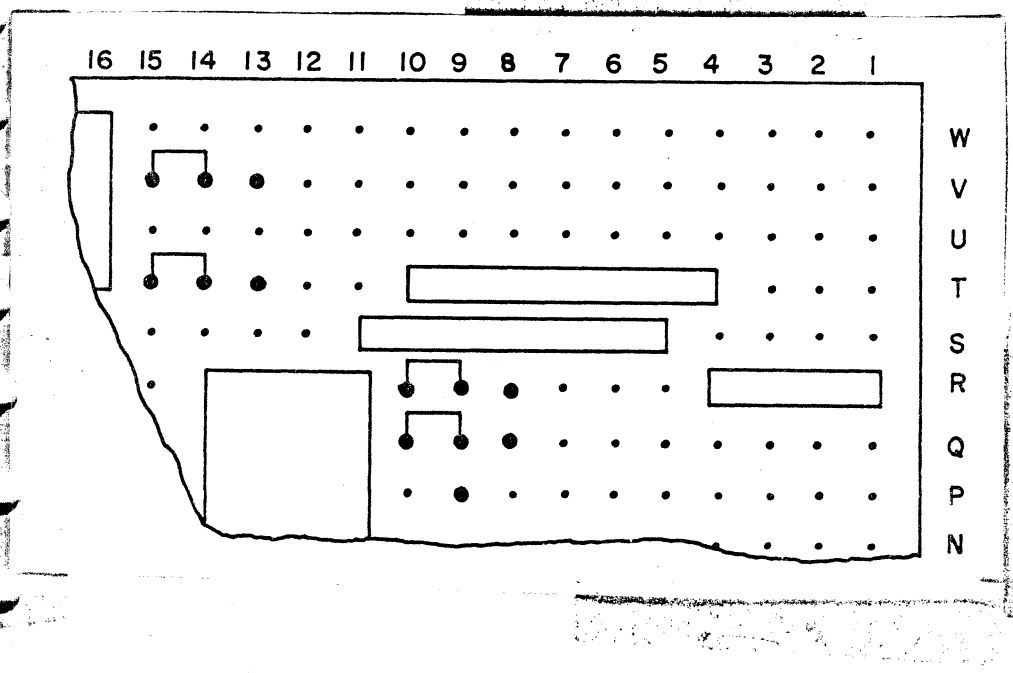
MODEL 81-ADDRESSES 024/025, 026/027, 028/029, 02A/02B
MODEL 82-ADDRESSES 024/025, 026/027, 028/029, 02A/02B, 030/031
032/033, 034/035, 036/037, 038/039, 03A/03B
MODEL 83-ADDRESSES 020/021, 022/023, 024/025, 026/027, 028/029, 02A/02B, 02C/02D, 02E/02F
030/031, 032/033, 034/035, 036/037, 038/039, 03A/03B, 03C/03D, 03E/03F
MODEL 84-ADDRESSES 024/025, 026/027, 028/029, 02A/02B

3.1 PER THE CHART BELOW, REMOVE THE CARD COVER FROM THE BOARD AFFECTED AND THE RS232C/V.24 INTERFACE CARD ASSOCIATED WITH THE SYSGEN ADDRESS REQUIRING THE REMOVAL OF START/STOP LOCAL ATTACH JUMPERING. REJUMPER THE CARD ACCORDING TO THE FIGURE BELOW. IF MULTIPLE INTERFACES REQUIRE START/STOP LOCAL ATTACH JUMPERING REMOVAL, PERFORM THE JUMPERING ON ONE INTERFACE CARD AT A TIME. IF THE AFFECTED CARD(S) ARE ALREADY JUMPERED AS INDICATED IN THE FIGURE, REVERIFY THE ADDRESS(ES) AFFECTED WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

SYSGEN ADDRESS(ES)	INTERFACE CARD	DESCRIPTION
020/021	01A-A2B2	LIB A LINE 0 PARTITION=1
022/023	01A-A2C2	LIB A LINE 1 PARTITION=1
024/025	01A-A2D2	LIB A LINE 2 PARTITION=2
026/027	01A-A2E2	LIB A LINE 3 PARTITION=2
028/029	01A-A2H2	LIB A LINE 4 PARTITION=3
02A/02B	01A-A2J2	LIB A LINE 5 PARTITION=3
02C/02D	01A-A2K2	LIB A LINE 6 PARTITION=4
02E/02F	01A-A2L2	LIB A LINE 7 PARTITION=4
030/031	01A-A1B2	LIB B LINE 0 PARTITION=5
032/033	01A-A1C2	LIB B LINE 1 PARTITION=5
034/035	01A-A1D2	LIB B LINE 2 PARTITION=6
036/037	01A-A1E2	LIB B LINE 3 PARTITION=6
038/039	01A-A1H2	LIB B LINE 4 PARTITION=7
03A/03B	01A-A1J2	LIB B LINE 5 PARTITION=7
03C/03D	01A-A1K2	LIB B LINE 6 PARTITION=8
03E/03F	01A-A1L2	LIB B LINE 7 PARTITION=8

3.2 REINSTALL THE INTERFACE CARD INTO THE APPLICABLE SOCKET LOCATION, PER THE CHART ABOVE. IF ADDITIONAL INTERFACE CARDS ARE TO BE JUMPERED FOR START/STOP LOCAL ATTACH, REPEAT 3.1 AND 3.2 FOR EACH ADDITIONAL INTERFACE BEING CHANGED.

3.3 REINSTALL THE CARD COVER AT BOARD LOCATION 01A-A1 AND/OR 01A-A2.



1. REMOVE ANY JUMPER WITH ONE END ON R08 AND THE OTHER END FLOATING AND JUMPER R09 TO R10.
2. REMOVE ANY JUMPER FROM P09 TO Q09 OR ON Q08 WITH THE OTHER END FLOATING AND JUMPER Q09 TO Q10.
3. JUMPERS V14 TO V15 AND T14 TO T15 MUST REMAIN JUMPERED AS SHOWN IN THE FIGURE.

CONTINUED ON NEXT SHEET

3.4 HALF DUPLEX MODE REQUIRES THAT A BOARD JUMPER NOT BE PRESENT BETWEEN PINS P06 AND P08 AT THE CARD SOCKET LOCATION HOUSING AN INTERFACE CARD THAT WILL LOGICALLY ATTACH TO A HALF DUPLEX DCE OR SYNCHRONOUS LOCAL ATTACH DEVICE. FOR DUPLEX ATTACHMENT, THE JUMPER MUST BE PRESENT. FOR THE INTERFACES REJUMPERED IN STEP 3.1, CHECK FOR THE PRESENCE OR ABSENCE OF THE BOARD JUMPER, DEPENDENT UPON THE MODE OF OPERATION REQUIRED, REFERENCING THE CHART ON THE PREVIOUS SHEET IN DETERMINING THE INTERFACE CARD BOARD SOCKET LOCATIONS AND ADD OR REMOVE A JUMPER, AS REQUIRED. FOR A JUMPER ADD, USE JUMPER P/N 815925, OR WIRE WRAP A JUMPER AT THE INTERFACE CARD SOCKET LOCATION(S) AFFECTED.

3.5 IF ANY BOARD JUMPER(S) HAD TO BE ADDED OR REMOVED IN STEP 3.4, THE CDS MUST BE UPDATED TO REFLECT THE NEW MODE OF THE INTERFACE, HALF DUPLEX OR DUPLEX, PER THE CHART BELOW:

CARD	CARD COLUMN	CARD PUNCH	CDS BYTE LOCATION	MODE	SYSGEN ADDRESS(ES)	DESCRIPTION
4	24-25	04	0F5A	HDX	020	LIB A LINE 0 PARTITION=1
4	24-25	08	0F5A	DX	020/021	LIB A LINE 0 PARTITION=1
4	26-27	04	0F5B	HDX	022	LIB A LINE 1 PARTITION=1
4	26-27	08	0F5B	DX	022/023	LIB A LINE 1 PARTITION=1
4	28-29	04	0F5C	HDX	024	LIB A LINE 2 PARTITION=2
4	28-29	08	0F5C	DX	024/025	LIB A LINE 2 PARTITION=2
4	30-31	04	0F5D	HDX	026	LIB A LINE 3 PARTITION=2
4	30-31	08	0F5D	DX	026/027	LIB A LINE 3 PARTITION=2
4	32-33	04	0F5E	HDX	028	LIB A LINE 4 PARTITION=3
4	32-33	08	0F5E	DX	028/029	LIB A LINE 4 PARTITION=3
4	34-35	04	0F5F	HDX	02A	LIB A LINE 5 PARTITION=3
4	34-35	08	0F5F	DX	02A/02B	LIB A LINE 5 PARTITION=3
4	36-37	04	0F60	HDX	02C	LIB A LINE 6 PARTITION=4
4	36-37	08	0F60	DX	02C/02D	LIB A LINE 6 PARTITION=4
4	38-39	04	0F61	HDX	02E	LIB A LINE 7 PARTITION=4
4	38-39	08	0F61	DX	02E/02F	LIB A LINE 7 PARTITION=4
4	40-41	04	0F62	HDX	030	LIB B LINE 0 PARTITION=5
4	40-41	08	0F62	DX	030/031	LIB B LINE 0 PARTITION=5
4	42-43	04	0F63	HDX	032	LIB B LINE 1 PARTITION=5
4	42-43	08	0F63	DX	032/033	LIB B LINE 1 PARTITION=5
4	44-45	04	0F64	HDX	034	LIB B LINE 2 PARTITION=6
4	44-45	08	0F64	DX	034/035	LIB B LINE 2 PARTITION=6
4	46-47	04	0F65	HDX	036	LIB B LINE 3 PARTITION=6
4	46-47	08	0F65	DX	036/037	LIB B LINE 3 PARTITION=6
4	48-49	04	0F66	HDX	038	LIB B LINE 4 PARTITION=7
4	48-49	08	0F66	DX	038/039	LIB B LINE 4 PARTITION=7
4	50-51	04	0F67	HDX	03A	LIB B LINE 5 PARTITION=7
4	50-51	08	0F67	DX	03A/03B	LIB B LINE 5 PARTITION=7
4	52-53	04	0F68	HDX	03C	LIB B LINE 6 PARTITION=8
4	52-53	08	0F68	DX	03C/03D	LIB B LINE 6 PARTITION=8
4	54-55	04	0F69	HDX	03E	LIB B LINE 7 PARTITION=8
4	54-55	08	0F69	DX	03E/03F	LIB B LINE 7 PARTITION=8

3.6 IF THE START/STOP JUMPERING REMOVAL IS TO BE CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F2. IF THE INTERFACE TO BE TESTED IS JUMPERED HALF DUPLEX, WRAP THE RS232C/V.24 INTERFACE WITH ANOTHER HALF DUPLEX RS232C/V.24 INTERFACE. IF THE INTERFACE TO BE TESTED IS JUMPERED DUPLEX, WRAP THE RS232C/V.24 TRANSMIT ADDRESS WITH THE RECEIVE ADDRESS.

3.7 THIS COMPLETES YOUR START/STOP LOCAL ATTACH JUMPERING REMOVAL.

4.0 INSTALL START/STOP LOCAL ATTACH JUMPERING FOR AN RS232C/V.24 LINE SET 1 INTERFACE (RECORD PURPOSE ONLY MES SPECIFY CODE 9722).

NOTE 1: THE START STOP LOCAL ATTACH JUMPERING INSTRUCTIONS CONTINUE ON THE NEXT SHEET.

NOTE 2: THE CHART ON THIS SHEET SHOWS ALL POSSIBLE RS232C/V.24 SYSGEN ADDRESS POSITIONS ON THE THE 3705-80 SERIES OF MACHINES. DEPENDENT UPON YOUR 3705-80 MODEL, ALL OF THE ADDRESS POSITIONS LISTED MAY NOT BE PHYSICALLY INSTALLED. THE PHYSICALLY INSTALLED ADDRESSES ARE LISTED BELOW BY MODEL. HALF DUPLEX OPERATION USES ONLY THE EVEN ADDRESSES.

MODEL 81-ADDRESSES 024/025, 026/027, 028/029, 02A/02B
MODEL 82-ADDRESSES 024/025, 026/027, 028/029, 02A/02B, 030/031
032/033, 034/035, 036/037, 038/039, 03A/03B
MODEL 83-ADDRESSES 020/021, 022/023, 024/025, 026/027, 028/029, 02A/02B, 02C/02D, 02E/02F
030/031, 032/033, 034/035, 036/037, 038/039, 03A/03B, 03C/03D, 03E/03F
MODEL 84-ADDRESSES 024/025, 026/027, 028/029, 02A/02B

NOTE 3: AT THE CREATION DATE OF THESE INSTRUCTIONS, THE 3705-80 SUPPORTED START/STOP LOCAL ATTACH IN HALF DUPLEX MODE ONLY. THESE INSTRUCTIONS WILL REJUMPER THE INTERFACE FOR HALF DUPLEX MODE, IF THE INTERFACE AFFECTED IS PRESENTLY JUMPERED DUPLEX, TO COMPLY WITH THIS SUPPORT RESTRICTION.

NOTE 4: CAREFULLY CHECK THE PRESENT JUMPERING OF THE AFFECTED INTERFACE CARD. IF THE AFFECTED CARD IS ALREADY JUMPERED AS DESCRIBED IN THESE INSTRUCTIONS, REVERIFY THE INTERFACE AFFECTED WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

4.1 PER THE CHART BELOW, REMOVE THE CARD COVER FROM THE BOARD AFFECTED AND THE RS232C/V.24 INTERFACE CARD ASSOCIATED WITH THE SYSGEN ADDRESS REQUIRING START/STOP LOCAL ATTACH JUMPERING. FOR ALL START/STOP LOCAL ATTACH DEVICES EXCEPT 2740'S WITHOUT STATION CONTROL, JUMPER THE AFFECTED INTERFACE CARD ACCORDING TO FIGURE "A" BELOW. FOR START/STOP LOCAL ATTACH 2740'S WITHOUT STATION CONTROL, JUMPER THE AFFECTED INTERFACE CARD ACCORDING TO FIGURE "B" BELOW. FLOAT THE UNUSED JUMPER(S) AS INDICATED IN THE APPLICABLE FIGURE, SINCE THESE JUMPER(S) MAY BE REQUIRED FOR A FUTURE LINE ATTACHMENT CHANGE. IF MULTIPLE INTERFACES ARE TO BE REJUMPERED FOR START/STOP LOCAL ATTACH, PERFORM THE JUMPERING ON ONE INTERFACE CARD AT A TIME.

NOTE: JUMPERS V14 TO V15 AND T14 TO T15 MUST REMAIN JUMPERED AS SHOWN IN THE FIGURES BELOW.

SYSGEN ADDRESS	INTERFACE CARD	DESCRIPTION
020	01A-A2B2	LIB A LINE 0 PARTITION=1
022	01A-A2C2	LIB A LINE 1 PARTITION=1
024	01A-A2D2	LIB A LINE 2 PARTITION=2
026	01A-A2E2	LIB A LINE 3 PARTITION=2
028	01A-A2H2	LIB A LINE 4 PARTITION=3
02A	01A-A2J2	LIB A LINE 5 PARTITION=3
02C	01A-A2K2	LIB A LINE 6 PARTITION=4
02E	01A-A2L2	LIB A LINE 7 PARTITION=4
030	01A-A1B2	LIB B LINE 0 PARTITION=5
032	01A-A1C2	LIB B LINE 1 PARTITION=5
034	01A-A1D2	LIB B LINE 2 PARTITION=6
036	01A-A1E2	LIB B LINE 3 PARTITION=6
038	01A-A1H2	LIB B LINE 4 PARTITION=7
03A	01A-A1J2	LIB B LINE 5 PARTITION=7
03C	01A-A1K2	LIB B LINE 6 PARTITION=8
03E	01A-A1L2	LIB B LINE 7 PARTITION=8

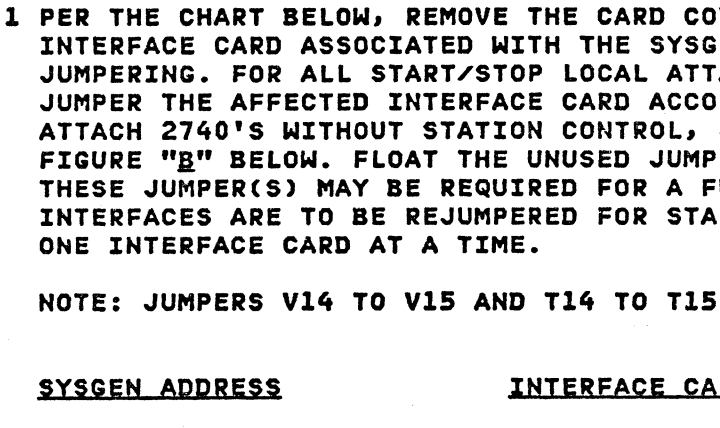


FIGURE A

1. IF R08 IS NOT JUMPERED AS SHOWN, REMOVE ANY JUMPER FROM R09 TO R10, INSTALL ONE END OF THE JUMPER ON R08 AND FLOAT THE OTHER END OF THE JUMPER.
2. REMOVE ANY JUMPER FROM Q09 TO Q10 OR P09 TO Q09, INSTALL ONE END OF THE JUMPER ON Q08 AND FLOAT THE OTHER END.

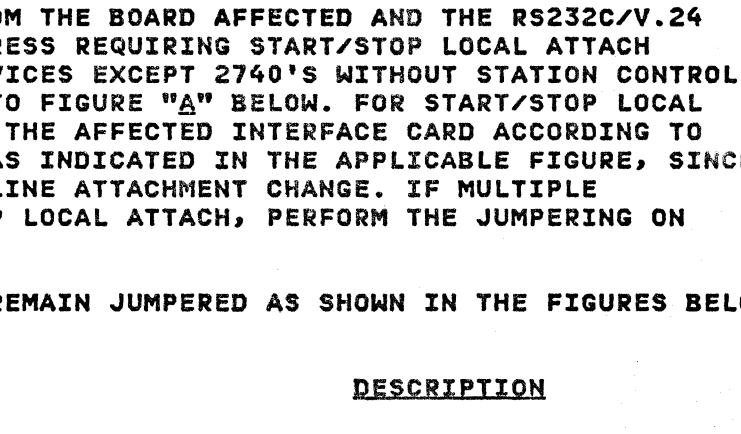


FIGURE B

1. IF R08 IS NOT JUMPERED AS SHOWN, REMOVE ANY JUMPER FROM R09 TO R10, INSTALL ONE END OF THE JUMPER ON R08 AND FLOAT THE OTHER END OF THE JUMPER.
2. REMOVE ANY JUMPER FROM Q09 TO Q10 OR ON Q08 AND THE OTHER END FLOATING AND INSTALL THE JUMPER P09 TO Q09.

ENG. CHANGE NO: 344836
DATE OF CHANGE: FEB 82

4.2 REINSTALL THE INTERFACE CARD INTO THE APPLICABLE SOCKET LOCATION, PER THE CHART ON THE PREVIOUS SHEET. IF ADDITIONAL INTERFACE CARDS ARE TO BE JUMPERED FOR START/STOP LOCAL ATTACH, REPEAT STEPS 4.1 AND 4.2 FOR EACH ADDITIONAL INTERFACE BEING CHANGED.

4.3 REINSTALL THE CARD COVER AT BOARD LOCATION 01A-A1 AND/OR 01A-A2.

4.4 HALF DUPLEX MODE REQUIRES THAT A BOARD JUMPER NOT BE PRESENT BETWEEN PINS P06 AND P08 AT THE CARD SOCKET LOCATION HOUSING AN INTERFACE CARD THAT WILL LOGICALLY ATTACH TO A HALF DUPLEX START/STOP LOCAL ATTACH DEVICE. PER THE CHART ABOVE, CHECK BOARD PINS P06 AND P08 AT THE SOCKET LOCATION(S) WHOSE INTERFACE CARD(S) WERE JUMPERED IN STEP 4.1. REMOVE ANY WIRE OR JUMPER BETWEEN P06 AND P08 FOR ANY INTERFACE THAT IS LOGICALLY ATTACHED TO A HALF DUPLEX START/STOP LOCAL ATTACH DEVICE.

4.5 IF ANY BOARD JUMPER(S) HAD TO BE REMOVED IN STEP 4.4, THE CDS MUST BE UPDATED TO REFLECT HALF DUPLEX MODE FOR THOSE INTERFACE(S), PER THE CHART BELOW:

CARD	CARD COLUMN	CARD PUNCH	CDS BYTE LOCATION	MODE	SYSGEN ADDRESS	DESCRIPTION
4	24-25	04	0F5A	HDX	020	LIB A LINE 0 PARTITION=1
4	26-27	04	0F5B	HDX	022	LIB A LINE 1 PARTITION=1
4	28-29	04	0F5C	HDX	024	LIB A LINE 2 PARTITION=2
4	30-31	04	0F5D	HDX	026	LIB A LINE 3 PARTITION=2
4	32-33	04	0F5E	HDX	028	LIB A LINE 4 PARTITION=3
4	34-35	04	0F5F	HDX	02A	LIB A LINE 5 PARTITION=3
4	36-37	04	0F60	HDX	02C	LIB A LINE 6 PARTITION=4
4	38-39	04	0F61	HDX	02E	LIB A LINE 7 PARTITION=4
4	40-41	04	0F62	HDX	030	LIB B LINE 0 PARTITION=5
4	42-43	04	0F63	HDX	032	LIB B LINE 1 PARTITION=5
4	44-45	04	0F64	HDX	034	LIB B LINE 2 PARTITION=6
4	46-47	04	0F65	HDX	036	LIB B LINE 3 PARTITION=6
4	48-49	04	0F66	HDX	038	LIB B LINE 4 PARTITION=7
4	50-51	04	0F67	HDX	03A	LIB B LINE 5 PARTITION=7
4	52-53	04	0F68	HDX	03C	LIB B LINE 6 PARTITION=8
4	54-55	04	0F69	HDX	03E	LIB B LINE 7 PARTITION=8

4.6 IF THIS START/STOP JUMPERING CHANGE IS TO BE CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F2, WRAPPING THE HALF DUPLEX RS232C/V.24 INTERFACE WITH ANOTHER HALF DUPLEX RS232C/V.24 INTERFACE.

4.7 THIS COMPLETES YOUR START/STOP LOCAL ATTACH JUMPERING CHANGE.

5.0 CHANGE THE SPEED OF A V.35 LOCAL ATTACH LINE SET 5 FROM 57.6 KBPS TO 14.4 KBPS (RECORD PURPOSE ONLY MES SPECIFY CODE 9830).

NOTE: PREREQUISITE TO THIS SPEED CHANGE IS A LINE SET 5 INSTALLED IN PARTITION 1 OF A 3705-80 MODEL 81, 82 OR 84 (LINE SET 5 FEATURE B/M 1768284).

5.1 REMOVE THE JUMPER PRESENTLY INSTALLED BETWEEN BOARD PINS 01A-A2G4B09 AND 01A-A2G4B07 AND REINSTALL THE JUMPER BETWEEN BOARD PINS 01A-A2G4B05 AND 01A-A2G4B07. IF A JUMPER ALREADY EXISTS BETWEEN 01A-A2G4B05 AND 01A-A2G4B07, REVERIFY THE SPEED CHANGE WITH YOUR CUSTOMER ACCOUNT'S SALES REPRESENTATIVE OR THE CUSTOMER.

5.2 IF THE SPEED CHANGE IS TO BE CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F5.

5.3 THIS COMPLETES YOUR LINE SET 5 57.6 KBPS TO 14.4 KBPS SPEED CHANGE.

6.0 CHANGING THE SPEED OF A V.35 LOCAL ATTACH LINE SET 5 FROM 14.4 KBPS TO 57.6 KBPS (RECORD PURPOSE ONLY MES SPECIFY CODE 9832).

NOTE: PREREQUISITE TO THIS SPEED CHANGE IS A LINE SET 5 INSTALLED IN PARTITION 1 OF A 3705-80 MODEL 81, 82 OR 84 (LINE SET 5 FEATURE B/M 1768284).

6.1 REMOVE THE JUMPER PRESENTLY INSTALLED BETWEEN BOARD PINS 01A-A2G4B05 AND 01A-A2G4B07 AND REINSTALL THE JUMPER BETWEEN BOARD PINS 01A-A2G4B07 AND 01A-A2G4B09. IF A JUMPER ALREADY EXISTS BETWEEN 01A-A2G4B07 AND 01A-A2G4B09, REVERIFY THE SPEED CHANGE WITH YOUR CUSTOMER ACCOUNT'S SALES REPRESENTATIVE OR THE CUSTOMER.

6.2 IF THE SPEED CHANGE IS TO BE CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F5.

6.3 THIS COMPLETES YOUR LINE SET 5 14.4 KBPS TO 57.6 KBPS SPEED CHANGE.

7.0 CHANGING THE MODE OF A LINE SET 9 FROM SWITCHED TO NON SWITCHED (RECORD PURPOSE ONLY MES SPECIFY CODE 9778).

NOTE 1: PREREQUISITE TO THIS SWITCHED TO NON SWITCHED MODE CHANGE IS A LINE SET 9 INSTALLED IN PARTITION 1 OF A 3705-80 MODEL 81, 82 OR 84 (LINE SET 9 FEATURE B/M 1862384).

NOTE 2: CAREFULLY CHECK THE PRESENT JUMPERING OF THE LINE SET 9 CARDS BEFORE CHANGING THEM. IF THE LINE SET 9 CARDS ARE ALREADY JUMPERED FOR NON SWITCHED MODE, REVERIFY THE MODE CHANGE WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

7.1 REMOVE THE CARD COVER FROM THE 01A-A2 BOARD.

7.2 REMOVE THE LINE SET 9 INTERFACE CARD FROM 01A-A2B2 AND THE LINE SET 9 CONTROL CARD FROM 01A-A2M2.

7.3 REFERENCING THE FIGURE BELOW, MOVE THE JUMPERS AT B AND D ON THE CONTROL CARD TO A AND C AS SHOWN UNLESS THE NETWORK ALLOWS IMMEDIATE DATA TRANSMISSION WITHOUT A CLEAR TO SEND DELAY. IF THE NETWORK ALLOWS IMMEDIATE DATA TRANSMISSION WITHOUT A CLEAR TO SEND DELAY, LEAVE B AND D JUMPERED AND DO NOT JUMPER A AND C.

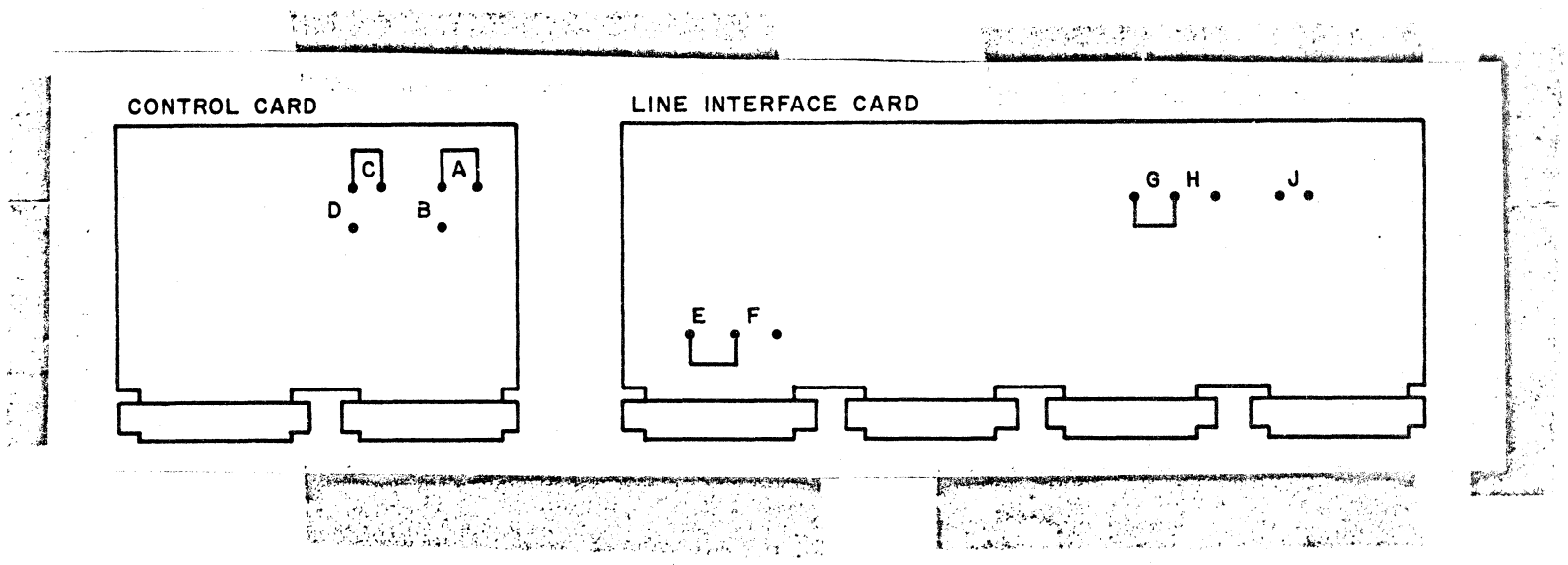
7.4 REFERENCING THE FIGURE BELOW, MOVE THE JUMPER ON THE LINE INTERFACE CARD FORM H TO G AND REMOVE THE JUMPER FROM J. THE JUMPER AT H IS REQUIRED FOR NON SWITCHED OPERATION. THE JUMPER AT J WAS REQUIRED FOR SWITCHED OPERATION ONLY AND HAD TO BE REMOVED. JUMPER E IS FOR HIGH SPEED OPERATION AND IS ALREADY INSTALLED ON THE LINE INTERFACE CARD. JUMPER E MUST NOT BE MOVED OR REMOVED.

7.5 REINSTALL THE LINE SET 9 CONTROL CARD INTO 01A-A2M2 AND THE LINE SET 9 INTERFACE CARD CARD INTO 01A-A2B2. REINSTALL THE CARD COVER AT BOARD LOCATION 01A-A2.

7.6 IF THIS LINE SET 9 SWITCHED TO NON SWITCHED MODE CHANGE IS TO TO CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F4.

NOTE: A CDS UPDATE IS NOT REQUIRED.

7.7 THIS COMPLETES YOUR LINE SET 9 SWITCHED TO NON SWITCHED MODE CHANGE.



8.0 CHANGING THE MODE OF A LINE SET 9 FROM NON SWITCHED TO SWITCHED (RECORD PURPOSE ONLY MES SPECIFY CODE 9776).

NOTE 1: PREREQUISITE TO THIS NON SWITCHED TO SWITCHED MODE CHANGE IS A LINE SET 9 INSTALLED IN PARTITION 1 OF A 3705-80 MODEL 81, 82 OR 84 (LINE SET 9 FEATURE B/M 1862384).

NOTE 2: CAREFULLY CHECK THE PRESENT JUMPERING OF THE LINE SET 9 CARDS BEFORE CHANGING THEM. IF THE LINE SET 9 CARDS ARE ALREADY JUMPERED FOR SWITCHED MODE, REVERIFY THE MODE CHANGE WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

8.1 REMOVE THE CARD COVER FROM THE 01A-A2 BOARD.

8.2 REMOVE THE LINE SET 9 INTERFACE CARD FROM 01A-A2B2 AND THE LINE SET 9 CONTROL CARD FROM 01A-A2M2.

8.3 THE CONTROL CARD MUST BE JUMPERED FOR NO CLEAR TO SEND DELAY. IF B AND D ARE NOT JUMPERED AS INDICATED IN THE FIGURE BELOW, MOVE THE JUMPERS FROM A AND C TO B AND D.

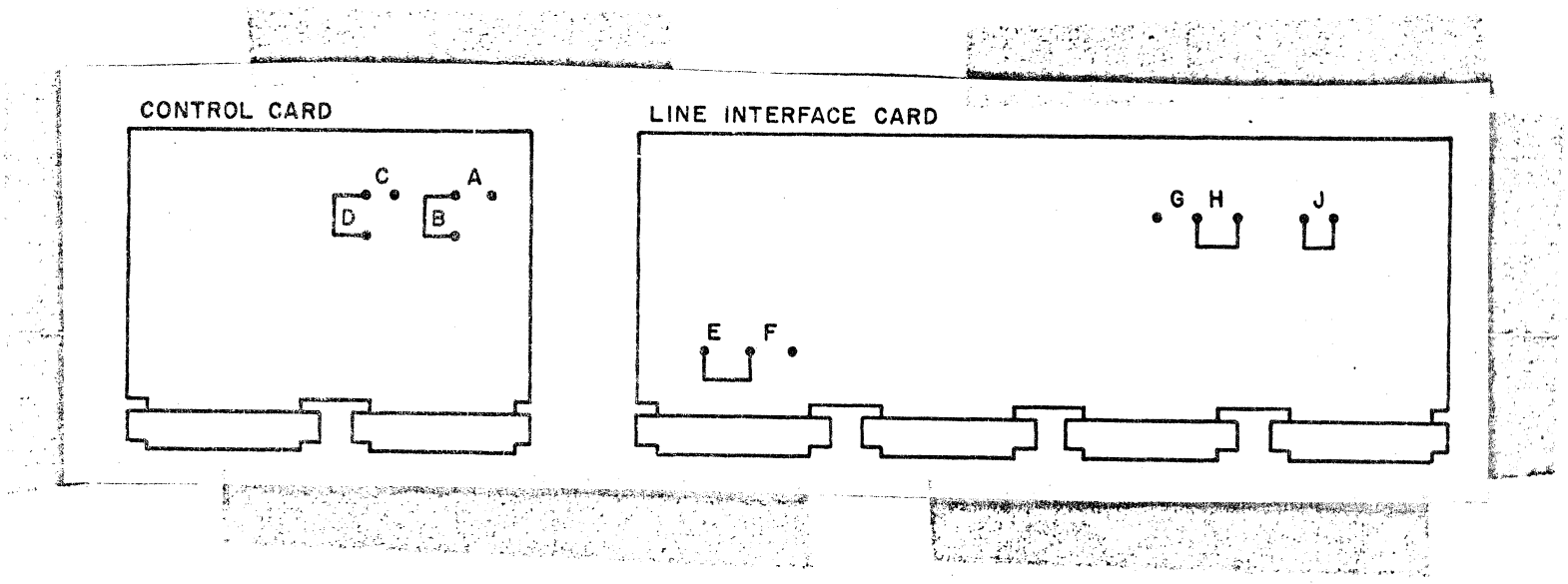
8.4 REFERENCING THE FIGURE BELOW, MOVE THE JUMPER ON THE LINE INTERFACE CARD FROM G TO H AND INSTALL JUMPER, P/N 816645, ON J. THESE TWO JUMPERS ARE REQUIRED FOR SWITCHED OPERATION. JUMPER E IS FOR HIGH SPEED OPERATION AND IS ALREADY ON THE LINE INTERFACE CARD. JUMPER E MUST NOT BE MOVED OR REMOVED.

8.5 REINSTALL THE LINE SET 9 CONTROL CARD INTO 01A-A2M2 AND THE LINE SET 9 INTERFACE CARD CARD INTO 01A-A2B2. REINSTALL THE CARD COVER AT BOARD LOCATION 01A-A2.

8.6 IF THIS LINE SET 9 NON SWITCHED TO SWITCHED MODE CHANGE IS TO TO CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F4.

NOTE: A CDS UPDATE IS NOT REQUIRED.

8.7 THIS COMPLETES YOUR LINE SET 9 NON SWITCHED TO SWITCHED MODE CHANGE.



9.0 CHANGING THE MODE OF AN X.21 LINE SET 8 INTERFACE FROM SWITCHED TO NON SWITCHED (RECORD PURPOSE ONLY SPECIFY CODE 9725).

NOTE 1: HALF DUPLEX OPERATION USES ONLY THE EVEN SYSGEN ADDRESS.

NOTE 2: PREREQUISITE TO THIS SWITCHED TO NON SWITCHED MODE CHANGE IS A LINE SET 8 INSTALLED IN PARTITION 1 OF A 3705-80 MODEL 81, 82 OR 84, IF THIS MODE CHANGE IS FOR SYSGEN ADDRESSES 020/021 OR 022/023 (LINE SET 8 PARTITION 1 FACTORY FEATURE B/M 1986973 FIELD FEATURE B/M 1754334).

NOTE 3: PREREQUISITE TO THIS SWITCHED TO NON SWITCHED MODE CHANGE IS A 3705-80 MODEL 84, IF THIS MODE CHANGE IS FOR SYSGEN ADDRESSES 030/031, 032/033, 034/035, 036/037, 038/039 OR 03A/03B.

NOTE 4: CAREFULLY CHECK THE PRESENT JUMPERING OF THE AFFECTED X.21 INTERFACE AND CONTROL CARDS BEFORE CHANGING THEIR JUMPERING. IF THE AFFECTED X.21 INTERFACE AND CONTROL CARDS ARE ALREADY JUMPERED FOR NON SWITCHED MODE, REVERIFY THE MODE CHANGE WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

9.1 PER THE CHART BELOW, REMOVE THE CARD COVER FROM THE BOARD AFFECTED AND THE X.21 INTERFACE AND CONTROL CARDS ASSOCIATED WITH THE SYSGEN ADDRESS(ES) REQUIRING A SWITCHED TO NON SWITCHED MODE CHANGE. IF MULTIPLE INTERFACES ARE TO BE CHANGE FROM SWITCHED TO NON SWITCHED, PERFORM THE MODE CHANGE FOR ONLY ONE INTERFACE AT A TIME.

SYSGEN ADDRESS(ES)	INTERFACE CARD	CONTROL CARD	DESCRIPTION
020/021	01A-A2B2	01A-A2M2	LIB A LINE 0 PARTITION=1
022/023	01A-A2C2	01A-A2M4	LIB A LINE 1 PARTITION=1
030/031	01A-A1B2	01A-A1M2	LIB B LINE 0 PARTITION=5
032/033	01A-A1C2	01A-A1M4	LIB B LINE 1 PARTITION=5
034/035	01A-A1D2	01A-A1N2	LIB B LINE 2 PARTITION=6
036/037	01A-A1E2	01A-A1N4	LIB B LINE 3 PARTITION=6
038/039	01A-A1H2	01A-A1P2	LIB B LINE 4 PARTITION=7
03A/03B	01A-A1J2	01A-A1P4	LIB B LINE 5 PARTITION=7

9.2 REFERENCING THE FIGURE BELOW, MOVE THE JUMPERS AT B AND D ON THE CONTROL CARD TO A AND C AS SHOWN UNLESS THE NETWORK ALLOWS IMMEDIATE DATA TRANSMISSION WITHOUT A CLEAR TO SEND DELAY. IF THE NETWORK ALLOWS IMMEDIATE DATA TRANSMISSION WITHOUT A CLEAR TO SEND DELAY, LEAVE B AND D JUMPERED AND DO NOT JUMPER A AND C.

9.3 REFERENCING THE FIGURE BELOW, MOVE THE JUMPER ON THE LINE INTERFACE CARD FORM H TO G AND REMOVE THE JUMPER FROM J. THE JUMPER AT H IS REQUIRED FOR NON SWITCHED OPERATION. THE JUMPER AT J WAS REQUIRED FOR SWITCHED OPERATION ONLY AND HAD TO BE REMOVED. JUMPER F IS FOR MEDIUM SPEED OPERATION AND IS ALREADY INSTALLED ON THE LINE INTERFACE CARD. JUMPER F MUST NOT BE MOVED OR REMOVED.

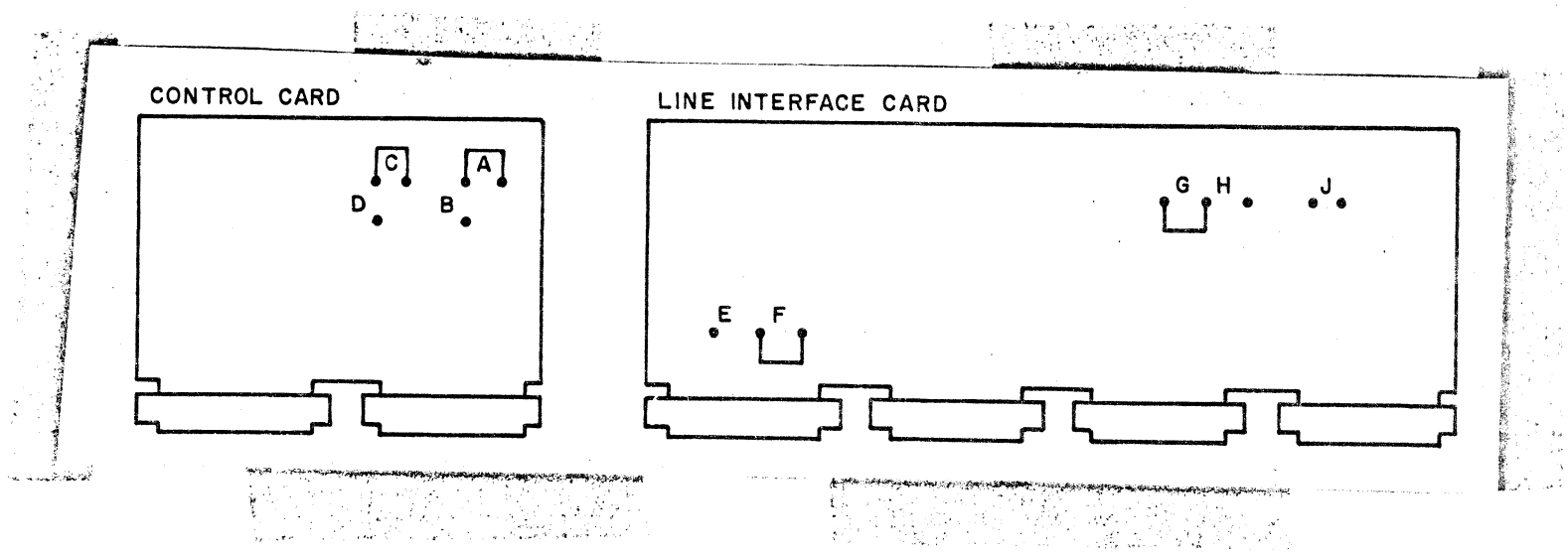
9.4 REINSTALL THE INTERFACE AND CONTROL CARDS INTO THEIR APPLICABLE SOCKET LOCATIONS, PER THE CHART ABOVE. IF ADDITIONAL SWITCHED TO NON SWITCHED MODE CHANGES REMAIN TO BE PERFORMED, REPEAT STEPS 9.1 THROUGH 9.4 FOR EACH ADDITIONAL INTERFACE BEING CHANGED.

9.5 REINSTALL THE CARD COVER AT BOARD LOCATION 01A-A1 AND/OR 01A-A2.

9.6 IF THIS X.21 SWITCHED TO NON SWITCHED MODE CHANGE IS TO TO CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F4.

NOTE: A CDS UPDATE IS NOT REQUIRED.

9.7 THIS COMPLETES YOUR X.21 SWITCHED TO NON SWITCHED MODE CHANGE.



ENG. CHANGE NO: 344836
DATE OF CHANGE: FEB 82

10.0 CHANGE THE MODE OF AN X.21 LINE SET 8 INTERFACE FROM NON SWITCHED TO SWITCHED (RECORD PURPOSE ONLY SPECIFY CODE 9724).

NOTE 1: HALF DUPLEX OPERATION USES ONLY THE EVEN SYSGEN ADDRESS.

NOTE 2: PREREQUISITE TO THIS NON SWITCHED TO SWITCHED MODE CHANGE IS A LINE SET 8 INSTALLED IN PARTITION 1 OF A 3705-80 MODEL 81, 82 OR 84, IF THIS MODE CHANGE IS FOR SYSGEN ADDRESSES 020/021 OR 022/023 (LINE SET 8 PARTITION 1 FACTORY FEATURE B/M 1986973 FIELD FEATURE B/M 1754334).

NOTE 3: PREREQUISITE TO THIS NON SWITCHED TO SWITCHED MODE CHANGE IS A 3705-80 MODEL 84, IF THIS MODE CHANGE IS FOR SYSGEN ADDRESSES 030/031, 032/033, 034/035, 036/037, 038/039 OR 03A/03B.

NOTE 4: CAREFULLY CHECK THE PRESENT JUMPERING OF THE AFFECTED X.21 INTERFACE AND CONTROL CARDS BEFORE CHANGING THEIR JUMPERING. IF THE AFFECTED X.21 INTERFACE AND CONTROL CARDS ARE ALREADY JUMPERED FOR SWITCHED MODE, REVERIFY THE MODE CHANGE WITH YOUR CUSTOMER ACCOUNT'S IBM SALES REPRESENTATIVE OR THE CUSTOMER.

10.1 PER THE CHART BELOW, REMOVE THE CARD COVER FROM THE BOARD AFFECTED AND THE X21 INTERFACE AND CONTROL CARDS ASSOCIATED WITH THE SYSGEN ADDRESS(ES) REQUIRING A NON SWITCHED TO SWITCHED MODE CHANGE. IF MULTIPLE INTERFACES ARE TO BE CHANGE FROM NON SWITCHED TO SWITCHED, PERFORM THE MODE CHANGE FOR ONLY ONE INTERFACE AT A TIME.

SYSGEN ADDRESS(ES)	INTERFACE CARD	CONTROL CARD	DESCRIPTION
020/021	01A-A2B2	01A-A2M2	LIB A LINE 0 PARTITION=1
022/023	01A-A2C2	01A-A2M4	LIB A LINE 1 PARTITION=1
030/031	01A-A1B2	01A-A1M2	LIB B LINE 0 PARTITION=5
032/033	01A-A1C2	01A-A1M4	LIB B LINE 1 PARTITION=5
034/035	01A-A1D2	01A-A1N2	LIB B LINE 2 PARTITION=6
036/037	01A-A1E2	01A-A1N4	LIB B LINE 3 PARTITION=6
038/039	01A-A1H2	01A-A1P2	LIB B LINE 4 PARTITION=7
03A/03B	01A-A1J2	01A-A1P4	LIB B LINE 5 PARTITION=7

10.2 THE CONTROL CARD MUST BE JUMPERED FOR NO CLEAR TO SEND DELAY. IF B AND D ARE NOT JUMPERED AS INDICATED IN THE FIGURE BELOW, MOVE THE JUMPERS FROM A AND C TO B AND D.

10.3 REFERENCING THE FIGURE BELOW, MOVE THE JUMPER ON THE LINE INTERFACE CARD FROM G TO H AND INSTALL JUMPER, P/N 816645, ON J. THESE TWO JUMPERS ARE REQUIRED FOR SWITCHED OPERATION. JUMPER F IS FOR MEDIUM SPEED OPERATION AND IS ALREADY ON THE LINE INTERFACE CARD. JUMPER F MUST NOT BE MOVED OR REMOVED.

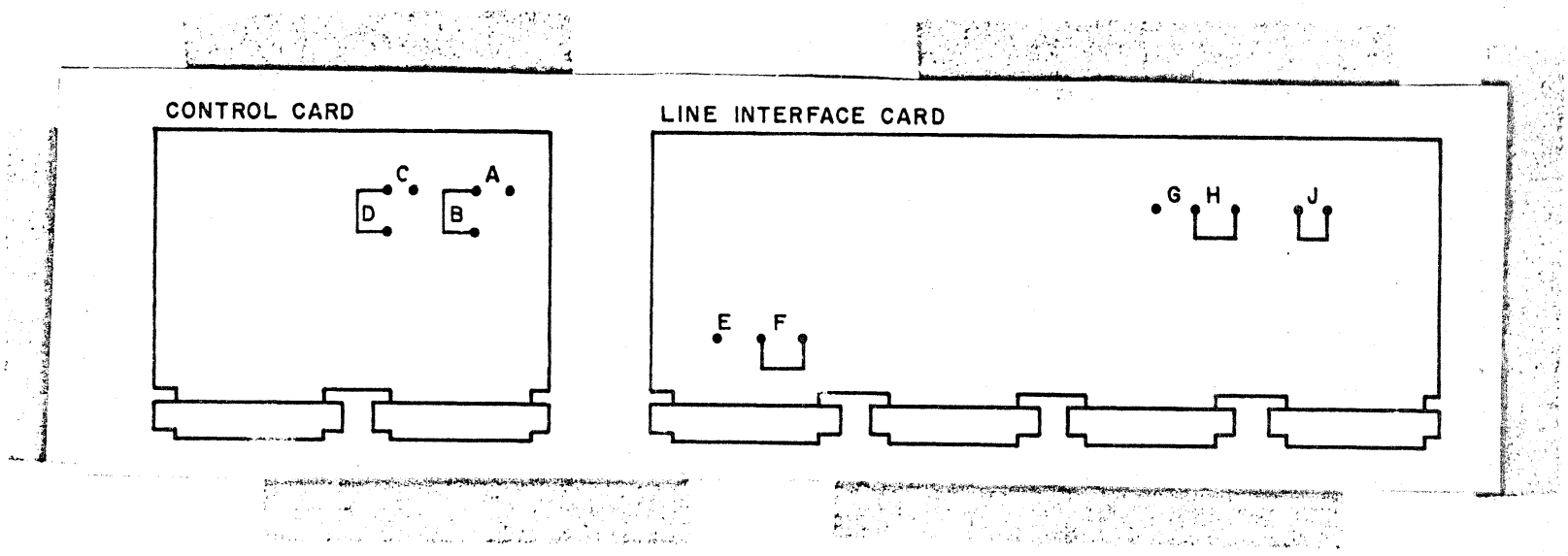
10.4 REINSTALL THE INTERFACE AND CONTROL CARDS INTO THEIR APPLICABLE SOCKET LOCATIONS, PER THE CHART ABOVE. IF ADDITIONAL NON SWITCHED TO SWITCHED MODE CHANGES REMAIN TO BE PERFORMED, REPEAT STEPS 10.1 THROUGH 10.4 FOR EACH ADDITIONAL INTERFACE BEING CHANGED.

10.5 REINSTALL THE CARD COVER AT BOARD LOCATION 01A-A1 AND/OR 01A-A2.

10.6 IF THIS X.21 NON SWITCHED TO SWITCHED MODE CHANGE IS TO TO CHECKED DIAGNOSTICALLY, RUN TYPE 2 SCANNER EXTERNAL WRAP ROUTINE F4.

NOTE: A CDS UPDATE IS NOT REQUIRED.

10.7 THIS COMPLETES YOUR X.21 NON SWITCHED TO SWITCHED MODE CHANGE.



IBM

	NAME	DATE
DESIGN	DEL	NOV80
DETAIL	TS	NOV80
CHECK		
APPRO		

LIB CABLING AND ADDRESS ERROR AND LOCAL STORE PARITY ERROR

SHT OF

CLASSIFICATION

DEL NOV80

MUST CONFORM TO ENG SPEC

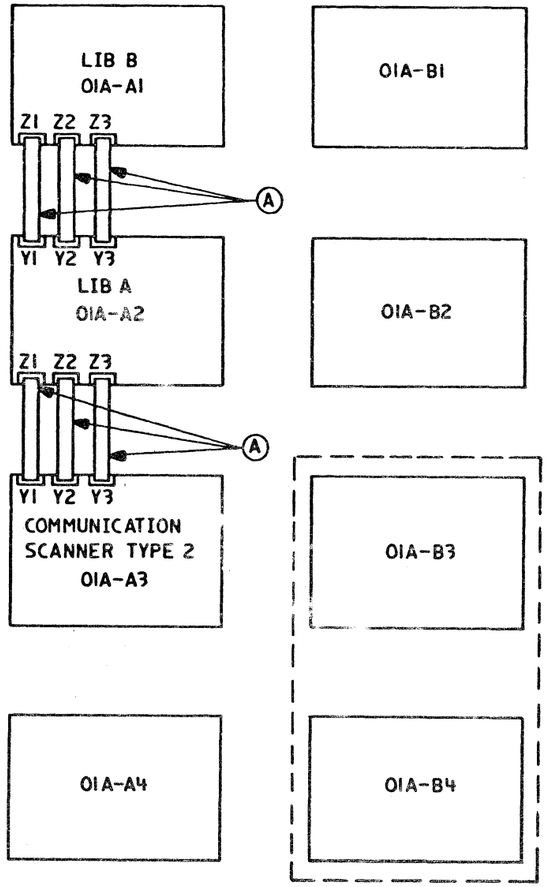
DEVELOPMENT NO

LOGIC PG NO VA001

CHANGE NO	DATE
344101	NOV80

8550125 C

LIB CABLE CHART
SHOWN FACING CARD SIDE OF BOARDS



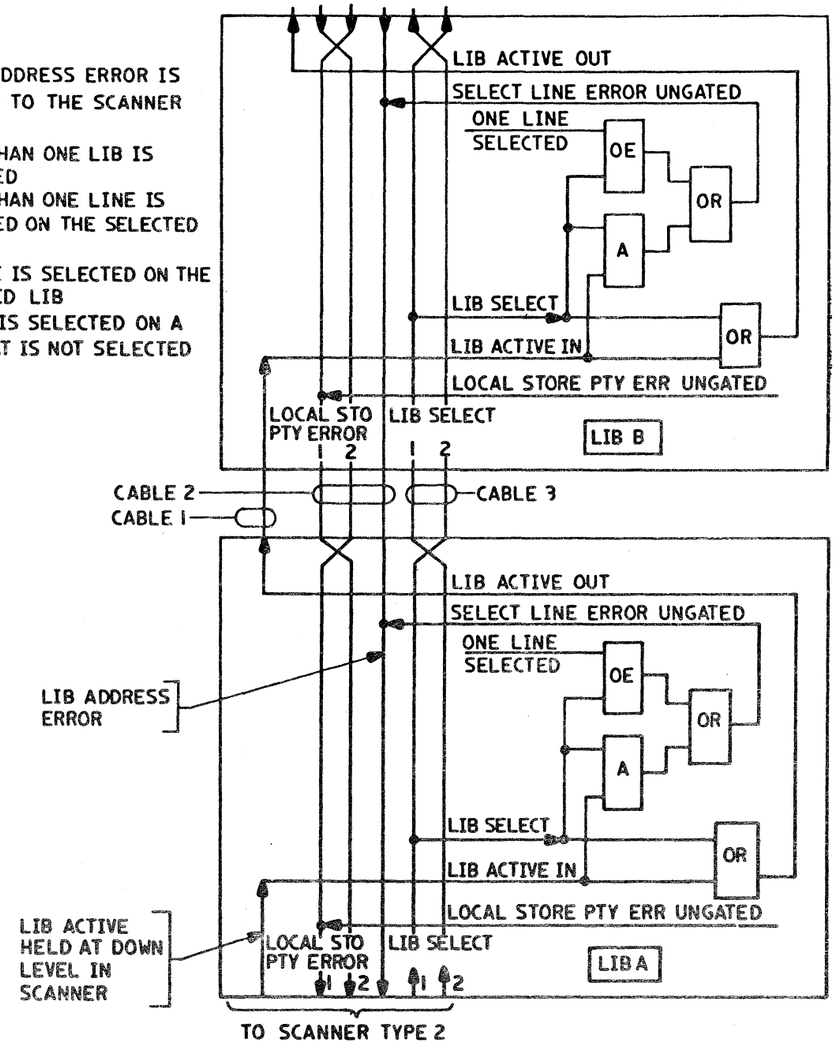
TYPE 2 SCANNER CABLING SCHEME

Ⓐ CROSSOVER CABLE P/N 5802876 THREE REQUIRED

LIB ADDRESS ERROR, LOCAL STORE PARITY ERROR AND TERMINATION [1]

A LINE ADDRESS ERROR IS SIGNALED TO THE SCANNER WHEN:

- MORE THAN ONE LIB IS SELECTED
- MORE THAN ONE LINE IS SELECTED ON THE SELECTED LIB
- NO LINE IS SELECTED ON THE SELECTED LIB
- A LINE IS SELECTED ON A LIB THAT IS NOT SELECTED

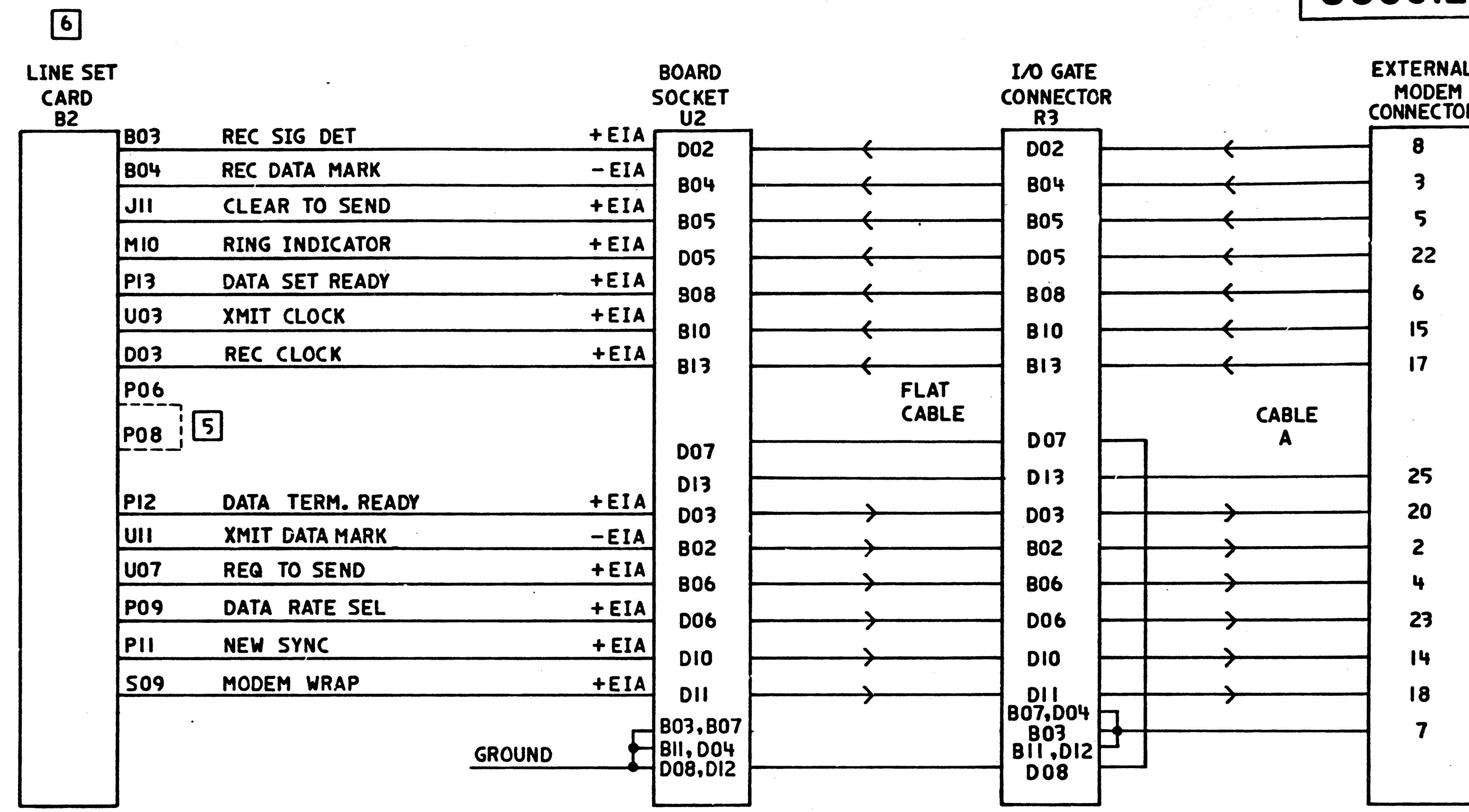


NOTE

[1] TERMINATION OF SCANNER INTERFACE LINES IN CABLE 1,2 AND 3 IS PROVIDED BY RESISTORS ON THE N885 CARD P/N 5862885, PLUGGED INTO THE A4 SOCKET OF THE LAST LIB BOARD OF SCANNER INTERFACE. ONLY ONE CARD MAY BE USED ON SCANNER INTERFACE.

PART NO 8550125

LOGIC PG NO VA001



LOCATIONS SHOWN ARE FOR LINE 0. REFER TO VA000 FOR LOCATIONS OF OTHER LINES.

NOTES

1 FLAT CABLE P/N 5997937 CONNECTS FROM I/O GATE TO LIB BOARD

2 EIA LEVELS: +3V TO +25V = SPACE = CONTROL ON
-3V TO -25V = MARK = CONTROL OFF

3 SIGNAL DRIVEN FROM 3705 SHOULD RANGE BETWEEN ±5 AND ±15

4 LINE SET TYPE I START/STOP USES EXTERNAL MODEM CABLE P/N 1736733 TO CONNECT EXTERNAL MODEM TO I/O GATE

5 FOR HDX START STOP AND SYNCHRONOUS ATTACH THE DX JUMPER MUST NOT BE PRESENT (P06 TO P08). FOR NCP, THE 'ADDRESS' GEN OPTION MUST CONTAIN ONLY ONE ADDRESS, I.E. 20 (21 MUST NOT BE SPECIFIED). THE NCP GEN OPTION 'DUPLEX=FULL/HALF REFERS TO THE COMMUNICATIONS FACILITY AND NOT TO THE USAGE OF THE LINE SET CARD ATTACHED TO THE FACILITY.

6 REFERENCE VA004 FOR LINE SET I CARD JUMPERING REQUIREMENTS

IBM

NAME	LINE SET TYPE I START STOP AND SYNC HDX	
DESIGN	DEL	NOV80
DETAIL	TS	NOV80
CHECK		
APPRO	DEL	NOV80
SHT OF		
CLASSIFICATION		

DATE	CHANGE NO
NOV80	344401
APR81	344852

MUST CONFORM TO ENG SPEC

DEVELOPMENT NO

LOGIC PG NO VA003

PART NO 8550127 C

LOGIC PG NO VA003

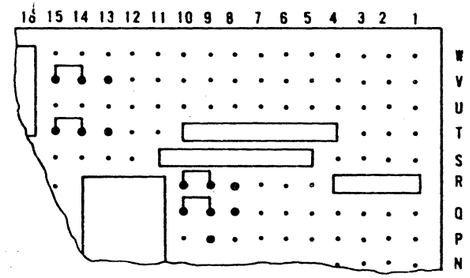
LINE SET 1 CARD JUMPERING

THE LINE SET 1 CARDS ARE JUMPERED BY MANUFACTURING ON NEW 3705-80'S AS INDICATED IN FIGURE A. THE FIGURE A JUMPERING IS FOR ALL LINE ATTACHMENT TYPES SUPPORTED BY A LINE SET 1 EXCEPT START/STOP LOCAL ATTACH. FOR START/STOP LOCAL ATTACH, EXCEPT 2740'S WITHOUT STATION CONTROL, THE AFFECTED LINE SET 1 CARD (S) MUST BE REJUMPERED ACCORDING TO FIGURE B. FOR A LOCAL ATTACH 2740 WITHOUT STATION CONTROL, THE AFF TED LINE SET 1 CARD MUST BE REJUMPERED ACCORDING TO FIGURE C.

IF A LINE SET 1 CARD IS BEING INSTALLED VIA AN MES, JUMPER THE LINE SET 1 CARDS ACCORDING TO THE APPLICABLE FIGURE.

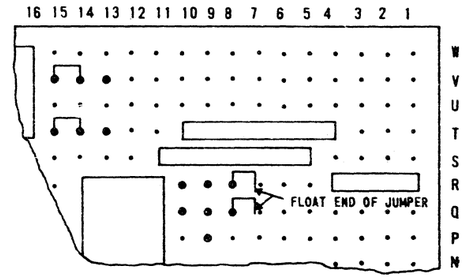
NOTE: FOR START/STOP LOCAL ATTACH, FOUR JUMPERS MUST BE ON THE CARD SINCE THEY MAY BE REQUIRED ON A FUTURE LINE ATTACHMENT (FLOAT ONE END OF THE APPLICABLE JUMPER (S) THAT ARE NOT REQUIRED

FIGURE A
ALL ATTACHMENT TYPES EXCEPT START/STOP LOCAL ATTACH



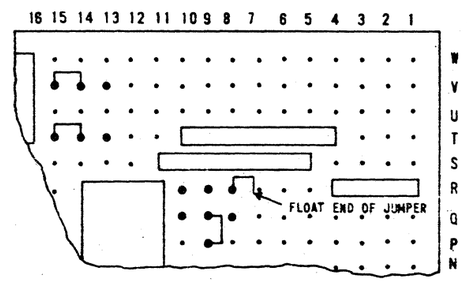
JUMPER V14 TO V15
JUMPER T14 TO T15
JUMPER R09 TO R10
JUMPER Q09 TO Q10

FIGURE B
START/STOP LOCAL ATTACH EXCEPT 2740'S WITHOUT STATION CONTROL



JUMPER V14 TO V15
JUMPER T14 TO T15
INSTALL ONE END OF A JUMPER ON R08 AND FLOAT THE OTHER END OF THE JUMPER.
INSTALL ONE END OF A JUMPER ON Q08 AND FLOAT THE OTHER END OF THE JUMPER.

FIGURE C
LOCAL ATTACHED 2740 WITHOUT STATION CONTROL



JUMPER V14 TO V15
JUMPER T14 TO T15
JUMPER P09 TO Q09
INSTALL ONE END OF A JUMPER ON R08 AND FLOAT THE OTHER END OF THE JUMPER

	NAME	DATE
DESIGN	DJR	APR81
DETAIL		
CHECK		
APPRO		

IBM

LINE SET TYPE 1 CABLE JUMPERING

SHT OF

CLASSIFICATION

DJR APR81

MUST CONFORM TO ENG SPEC

CHANGE NO 344852 DATE APR81

DEVELOPMENT NO

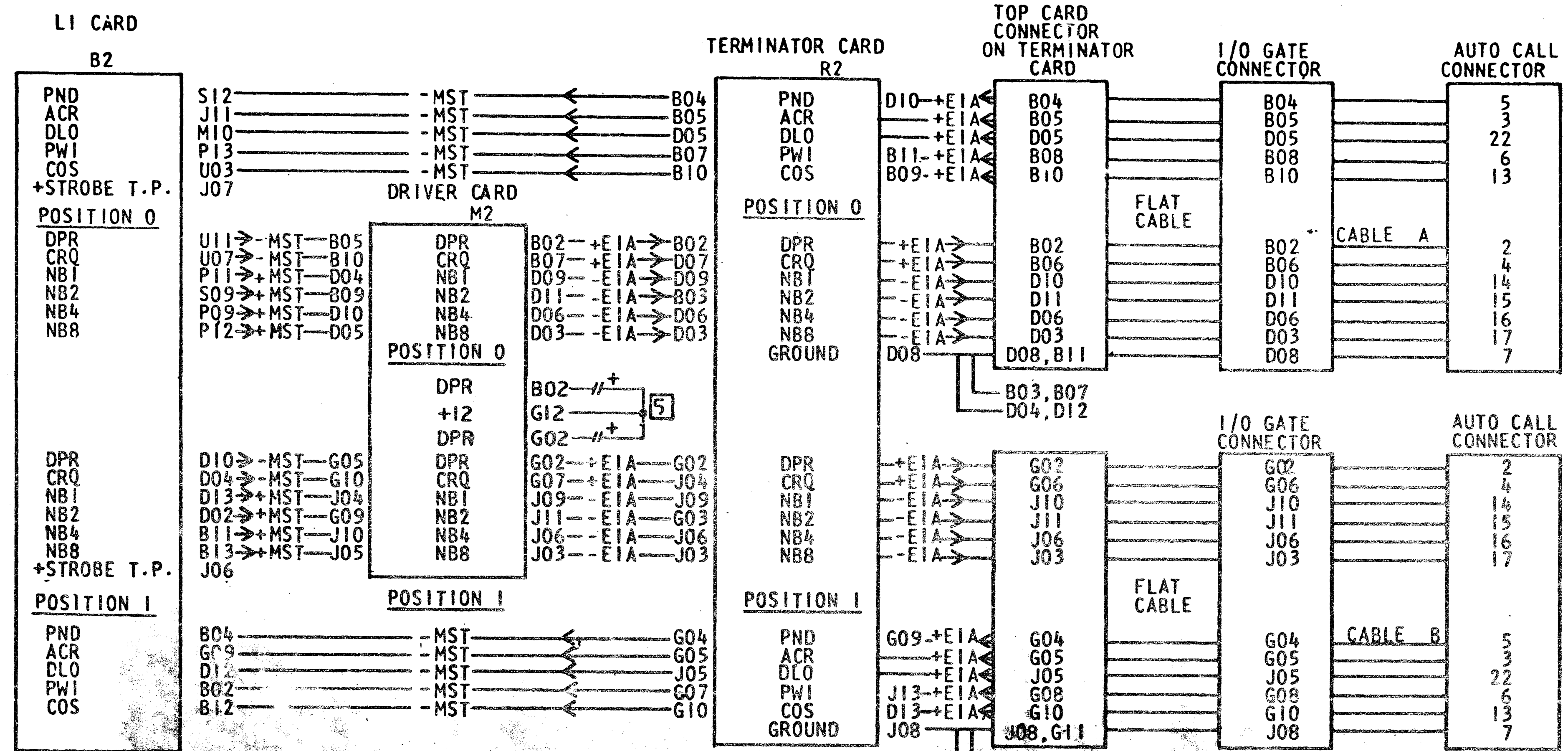
CHANGE NO DATE

LOGIC PG NO VA004

4499502 C

4499502 VA004

8550129 C



CARD LOCATIONS ARE SHOWN FOR LINES 0 & 1. REFER TO VA000 FOR CARD LOCATIONS OF THE OTHER LINE PAIR.

NOTES

1. EXTERNAL CABLE P/N 5997462 CONNECTS FROM AUTO CALL UNIT TO I/O GATE
2. FLAT CABLE P/N 5997936 CONNECTS FROM I/O GATE TO TOP CARD CONNECTOR OF TERMINATOR CARD
3. EIA LEVELS +3V TO +25V=SPACE=CTL ON
   -3V TO -25V=MARK=CTL OFF
4. SIGNALS DRIVEN FROM 3705 SHOULD RANGE BETWEEN ±5V AND ±15V
5. A CAPACITOR ASM, P/N 1757929 (.68/.68 MFD), IS INSTALLED ON PIN SIDE OF BOARD WITH EACH LINE PAIR. THE CAPACITOR DELAYS THE DIGIT PRESENT SIGNAL (DPR) RELATIVE TO THE DIGIT LINE SIGNALS (NB1 THRU NB8). THE EFFECTIVE DELAY IS APPROXIMATELY 0.4 MILLISECONDS.

IBM

NAME	LINE SET TYPE 4 AUTO CALL
DESIGN	DEL NOV80
DETAIL	
CHECK	
APPRO	
SHT OF	

DATE	CHANGE NO
NOV80	344401

MUST CONFORM TO ENG SPEC

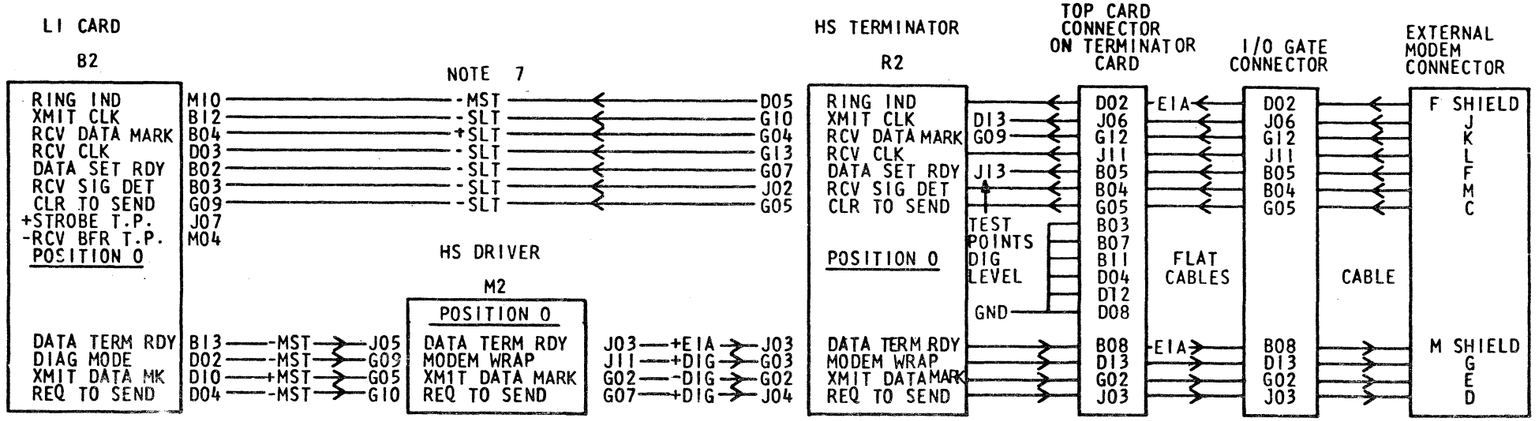
DEVELOPMENT NO

LOGIC PG NO VA005

PART NO 8550129 C

LOGIC PG NO VA005

8550130 C



CARD LOCATIONS ARE SHOWN FOR LINE 0.
REFER TO VAOOO FOR CARD LOCATIONS OF OTHER LINES.

NOTES

1. XI BOARD WIRING CONNECTS ALL CARDS OF LINE PAIR.
2. EXTERNAL MODEM CABLE PN 5993201 CONNECTS FROM EXTERNAL MODEM TO I/O GATE
3. FLAT CABLE F/N 5997936 CONNECTS FROM I/O GATE TO TOP CARD CONNECTOR TO TERMINATE CARD.
4. TWO DIGITAL LINE ARE AVAILABLE
5. DIGITAL LEVELS

   SPACE OR CONTROL ON = >23 MA (+1V)
   MARK OR CONTROL OFF = < 5 MA (+.7V)
   OPEN CIRCUIT CONTROL OFF
6. EIA LEVELS
   SPACE OR CONTROL ON +3V TO +25V
   MARK OF CONTROL OFF -3V TO -25V
7. SIGNALS DRIVEN FROM 3705 SHOULD RANGE BETWEEN ±5V AND ±15V
8. LEVELS

	+	-
MST	-0.6 TO -0.9V	-1.5V TO -2.3V
SLT	+3V NOM	0V NOM
EIA	+3V TO +25V	-3V TO -25V
DIGITAL	> 23 MA	< 5 MA

IBM

	NAME	DATE
APPRO		
CHECK		
DETAIL	DEL	NOV80
DESIGN	NOV80	

LINE SET TYPE 3 HIGH SPEED DIGITIAL SYNC HDX

SHT OF

CLASSIFICATION

MUST CONFORM TO ENG SPEC

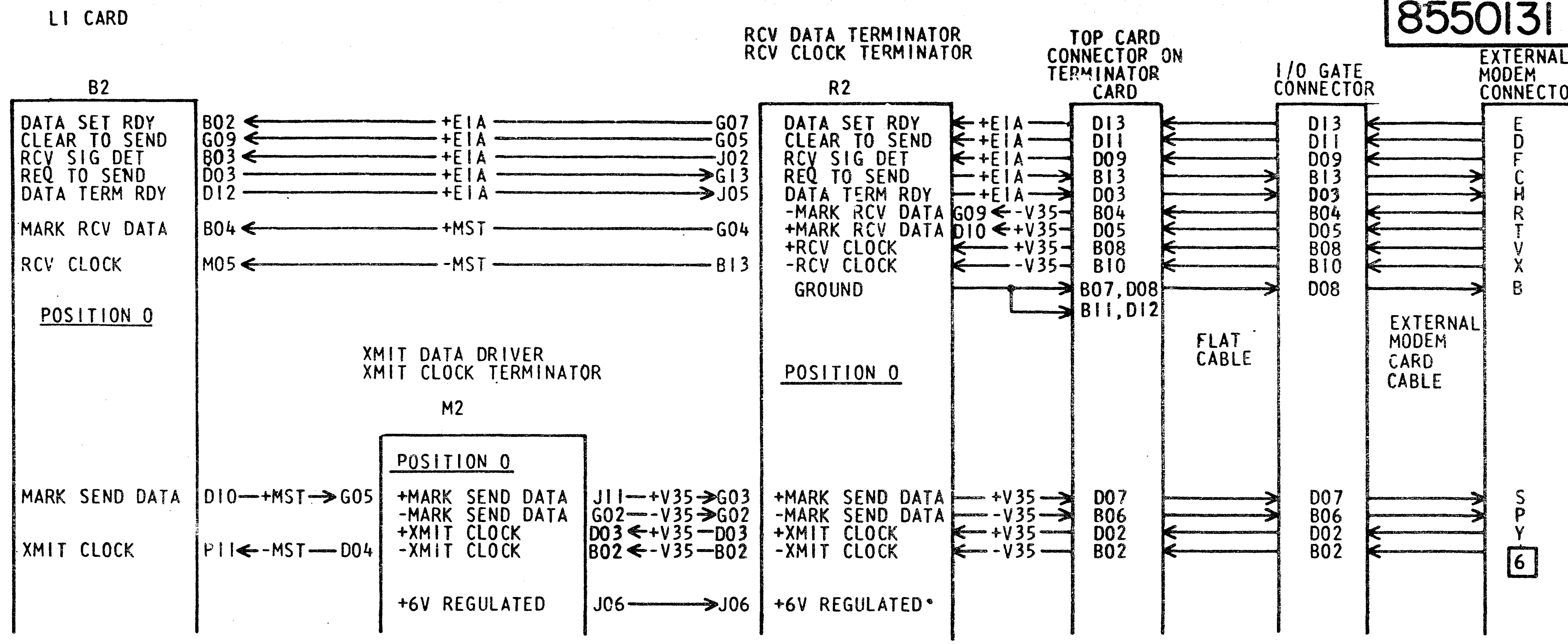
DEVELOPMENT NO	CHANGE NO	DATE
	344401	NOV80

LOGIC PG NO	CHANGE NO	DATE
VA006		

C 8550130

PART NO 8550130 LOGIC PG NO VA006

8550131 C



CARD LOCATIONS ARE SHOWN FOR LINE 0.
REFER TO VA000 FOR CARD LOCATIONS
OF OTHER LINES.

NOTES

1. X1 BOARD WIRING CONNECTS ALL CARDS OF LINE PAIR.
2. V35 DIFFERENTIAL VOLTAGE LEVELS REFERENCED TO SIGNAL GROUND:
   MARK: -0.44V TO -0.66V
   SPACE: +0.44V TO +0.66V
3. ONLY 1 V35 LINE AVAILABLE PER LINE PAIR POSITION.
4. FLAT CABLE P/N 5997936 CONNECTS FORM I/O GATE TO TOP CARD CONNECTOR ON 1820 CARD.
5. CABLE P/N 5997479 CONNECTS FROM EXTERNAL MODEM TO I/O GATE EXTERNAL MODEM

[6.] THIS PIN WILL BE LABELED "AA" OR "a". BOTH LABELS ARE CORRECT.

NAME	LINE SET TYPE 2 V35 INTER-
FACE	HDX
DESIGN	DEL NOV80 SHT OF
DETAIL	
CHECK	CLASSIFICATION
APPRO	

IBM

DATE	CHANGE NO	DATE	CHANGE NO
NOV80	344401		

MUST CONFORM TO ENG SPEC

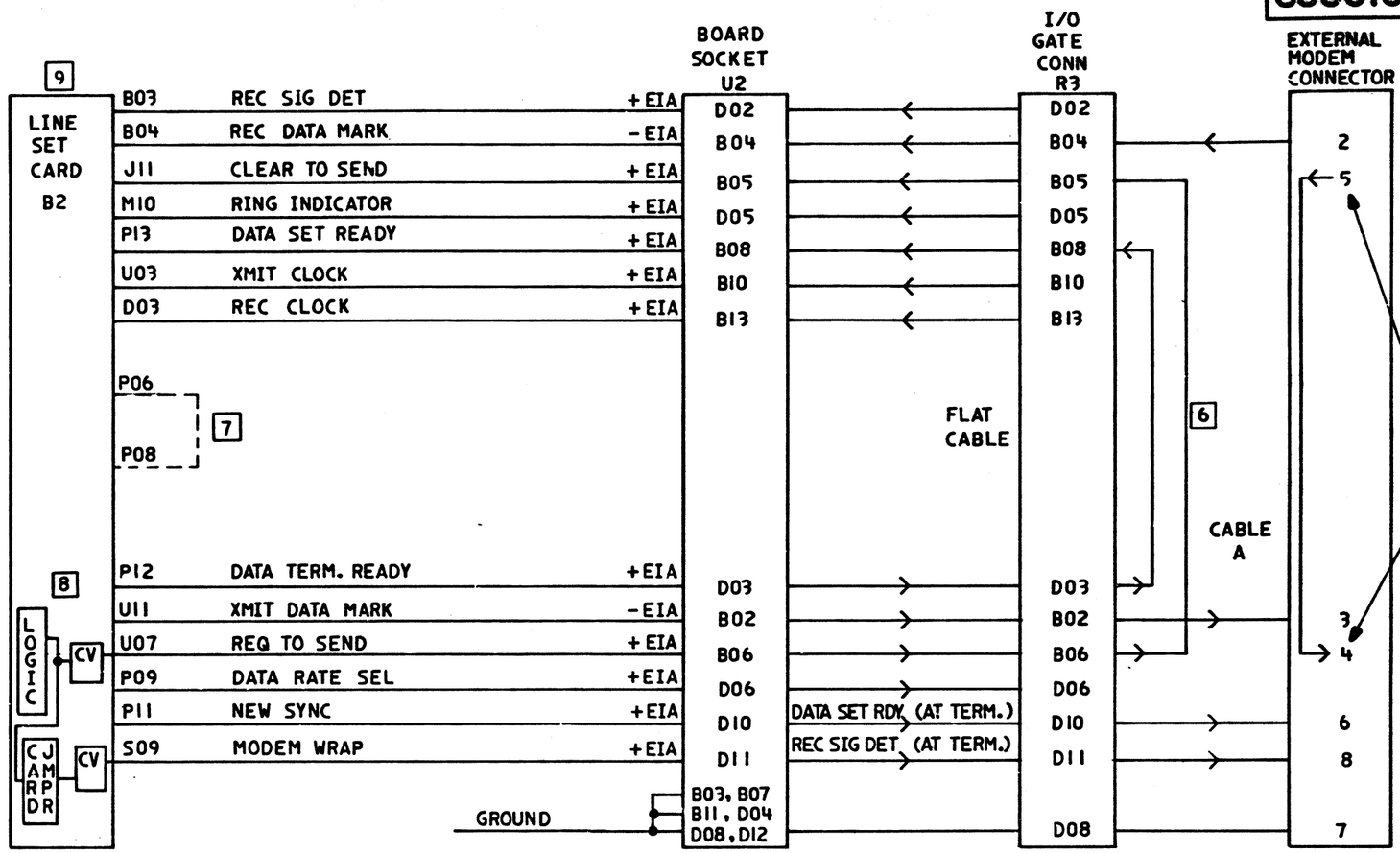
DEVELOPMENT NO

LOGIC PG NO VA008

8550131 C

PART NO 8550131

LOGIC PG NO VA008



LOCATIONS SHOWN ARE FOR LINE 0. REFER TO VA000 FOR LOCATIONS OF OTHER LINES.

NOTES

1. EXTERNAL MODEM CABLE P/N 1862475 CONNECTS FROM EXTERNAL MODEM TO I/O GATE
2. FLAT CABLE P/N 5997937 CONNECTS FROM I/O GATE TO LIB BOARD
3. EIA LEVELS: +3V TO +25V = SPACE = CONTROL ON
   -3V TO -25V = MARK = CONTROL OFF
4. EIA SIGNALS DRIVEN FROM 3705 SHOULD RANGE BETWEEN ±5V AND ±15V
5. PINS 4 AND 5 ARE TIED TOGETHER IN THE MODEM CONNECTOR
6. THE PINS ARE TIED TOGETHER IN THE HOUSING THAT ATTACHES TO 3705 TAILGATE
7. FOR START STOP LOCAL ATTACH THE DX JUMPER MUST NOT BE PRESENT (P06 TO P08). FOR NCP, THE "ADDRESS" GEN OPTION MUST CONTAIN ONLY ONE ADDRESS, I.E. 20 (21 MUST NOT BE SPECIFIED). THE NCP GEN OPTION 'DUPLEX=FULL/HALF' REFERS TO THE COMMUNICATIONS FACILITY AND NOT TO THE USAGE OF THE LINE SET CARD ATTACHED TO THE FACILITY.
8. THE JUMPERING LOGIC SHOWN IS FOR 2740'S WITHOUT STATION CONTROL. REFERENCE VA004 FOR ADDITIONAL LINE SET I CARD JUMPERING REQUIREMENTS.
9. REFERENCE VA004 FOR LINE SET I CARD JUMPERING REQUIREMENTS

IBM

	NAME	DATE
DESIGN	DEL	NOV80
DETAIL	TS	NOV80
CHECK		
APPRO	DEL	NOV80

LOCAL ATTACH LINE SET TYPE 1, START STOP

SHT OF

CLASSIFICATION

MUST CONFORM TO ENG SPEC

CHANGE NO	DATE
344401	NOV80
344852	APR81

DEVELOPMENT NO

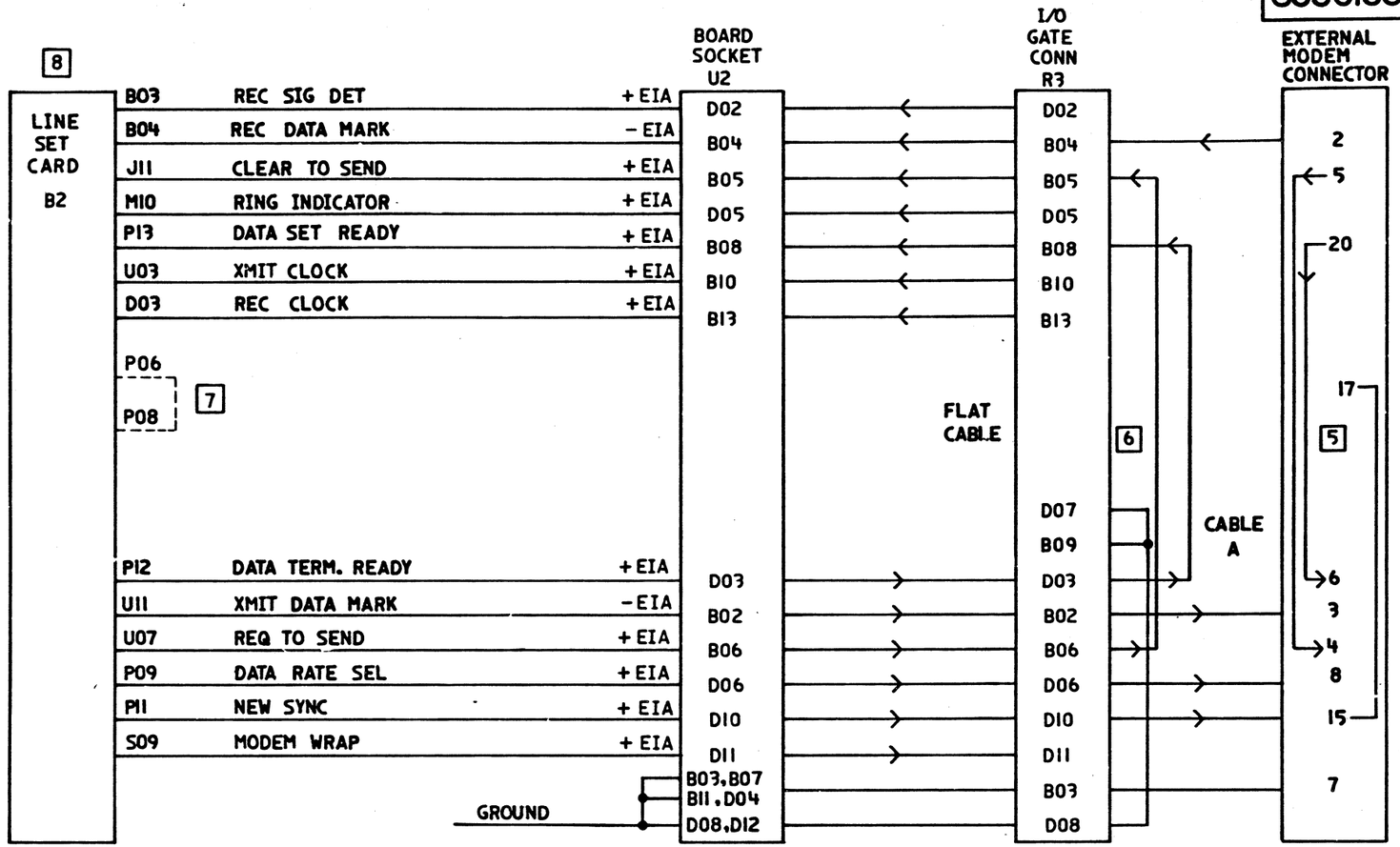
LOGIC PG NO VA009

8550132 C

PART NO 8550132

LOGIC PG NO VA009

8550133 C



LOCATIONS SHOWN ARE FOR LINE 0. REFER TO VA000 FOR LOCATIONS OF OTHER LINES.

NOTES

1. EXTERNAL MODEM CABLE P/N 1733746 CONNECTS FROM EXTERNAL MODEM TO I/O GATE
2. FLAT CABLE P/N 5997937 CONNECTS FROM I/O GATE TO LIB BOARD
3. EIA LEVELS: +3V TO +25V = SPACE = CONTROL ON
   -3V TO -25V = MARK = CONTROL OFF
4. SIGNALS DRIVEN FROM 3705 SHOULD RANGE BETWEEN ±5V AND ±15V
5. PINS ARE TIED TOGETHER IN THE MODEM CONNECTOR
6. PINS ARE TIED TOGETHER IN THE HOUSING THAT ATTACHES TO THE 3705 TAILGATE
7. FOR SYNCHRONOUS LOCAL ATTACH THE DX JUMPER MUST NOT BE PRESENT (P06 TO P08). FOR NCP, THE 'ADDRESS' OPTION MUST CONTAIN ONLY ONE ADDRESS, I.E. 20 (21 MUST NOT BE SPECIFIED). THE NCP GEN OPTION 'DUPLEX=FULL/ HALF REFERS TO THE COMMUNICATIONS FACILITY AND NOT TO THE USAGE OF THE LINE SET CARD ATTACHED TO THE FACILITY
8. REFERENCE VA004 FOR LINE SET 1 CARD JUMPERING REQUIREMENTS

	NAME	DATE
APPRO		
CHECK		
DETAIL	TS	NOV80
DESIGN	DEL	NOV80

LINE SET TYPE 1 EIA SYNC

LINE LOCAL ATTACH

SHT OF

CLASSIFICATION

	DEL	NOV80

MUST CONFORM TO ENG SPEC

CHANGE NO	DATE
344401	NOV80
344852	APR81

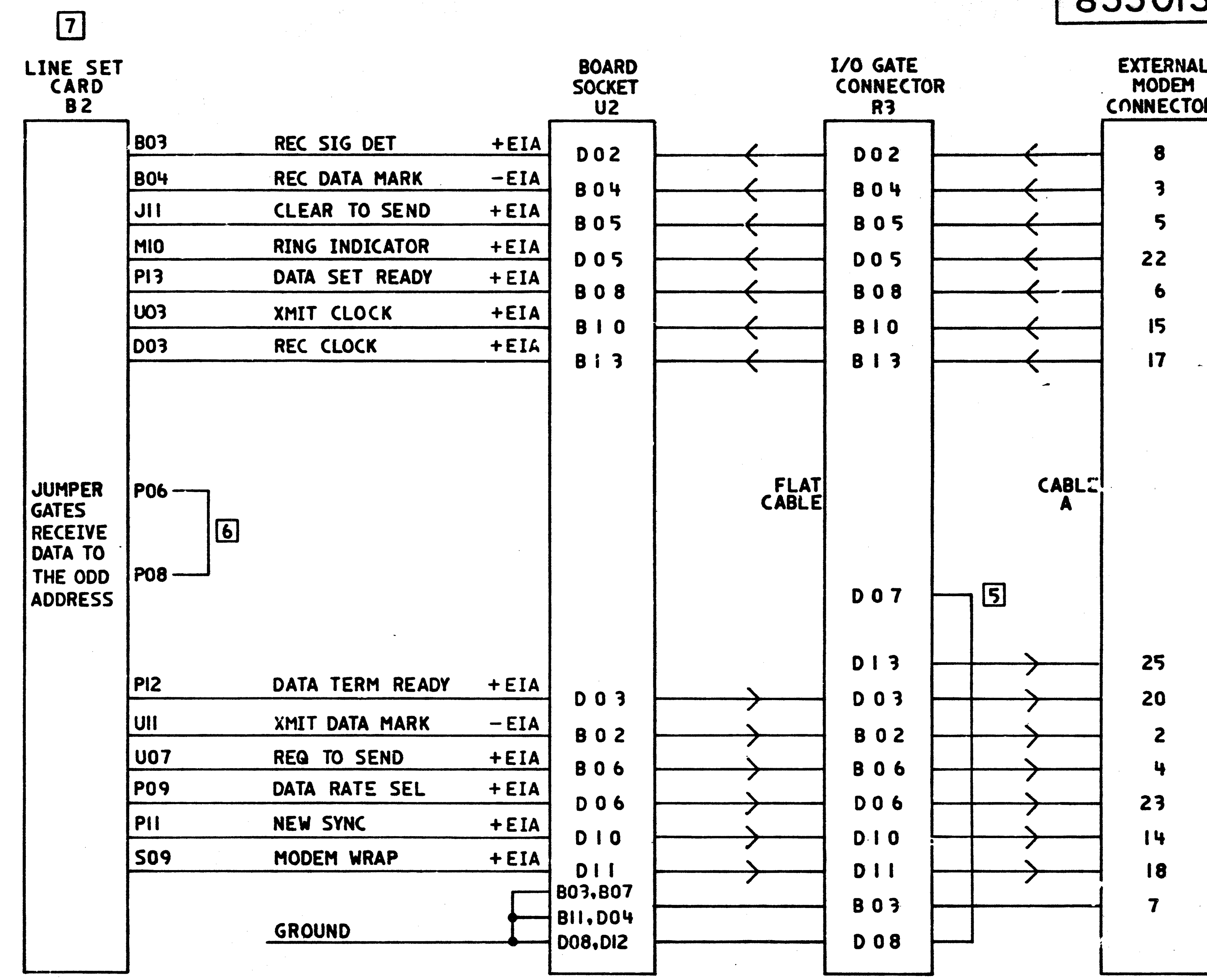
DEVELOPMENT NO

LOGIC PG NO VA010

8550133 C

PART NO 8550133

LOGIC PG NO VA010



LOCATIONS ARE SHOWN FOR LINE 0 REFER TO VA000 FOR LOCATION OF OTHER LINES

NOTES

1. EXTERNAL MODEM CABLE P/N 1736733 CONNECTS FROM EXTERNAL MODEM TO I/O GATE
2. FLAT CABLE P/N 5997937 CONNECTS FROM I/O GATE TO LIB BOARD
3. EIA LEVELS +3V TO +25V=SPACE=CONTROL ON −3V TO −25V=MARK=CONTROL OFF
4. SIGNALS DRIVEN FROM 3705 SHOULD RANGE BETWEEN ±5V AND ±15V

[5] PINS D08 AND D07 ARE JUMPERED TOGETHER IN THE HOUSING THAT ATTACHES TO THE 3705 TAILGATE

[6] JUMPER P/N 815925 USED FOR DX ONLY. EACH NCP LINE MUST CONTAIN TWO LIB ADDRESSES IN THE 'ADDRESS' GEN OPTION, I.E. 20,21. THE NCP GEN OPTION 'DUPLEX= FULL/HALF' REFERS TO THE COMMUNICATIONS FACILITY AND <u>NOT</u> TO THE USAGE OF THE LINE SET CARD ATTACHED TO THAT FACILITY. THE ATTACHED MODEM MUST BE CAPABLE OF DX OPERATION. EP DOES <u>NOT</u> SUPPORT DUPLEX OPERATION.

[7] REFERENCE VA004 FOR LINE SET I CARD JUMPERING REQUIREMENTS.

PART NO 8550134 LOGIC PG NO VA012

IBM

NAME	LINE SET TYPE I EIA SYNC DX		
DESIGN	DEL	NOV80	SHT 1 OF 1
DETAIL	TS	NOV80	
CHECK			CLASSIFICATION
APPRO			DEL NOV80

DATE	CHANGE NO	DATE	CHANGE NO
NOV80	344401		
APR81	344852		

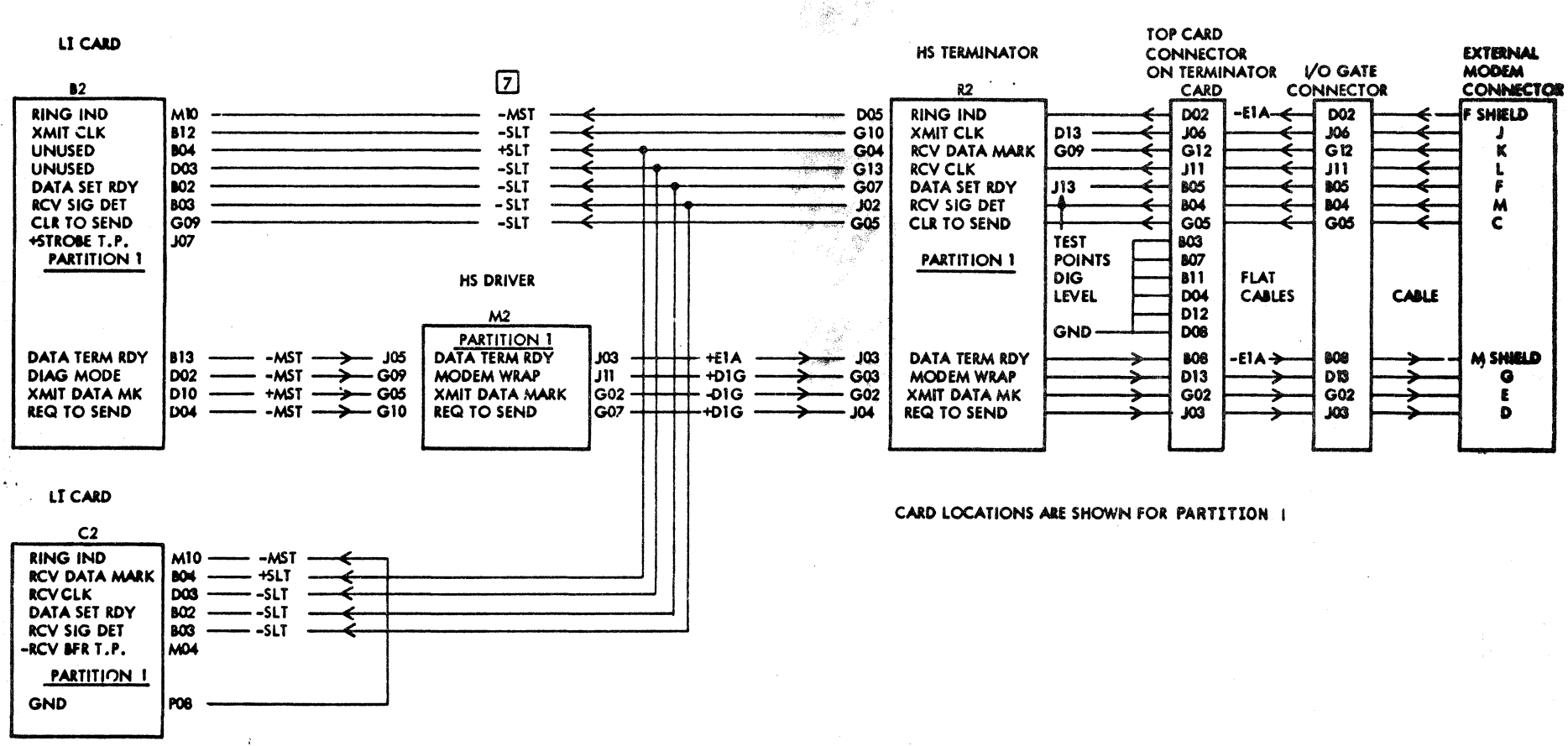
MUST CONFORM TO ENG SPEC

DEVELOPMENT NO

LOGIC PG NO VA012

8550135 C

PART NO 8550135 | LOGIC PG NO VA013



NOTES

1. X1 BOARD WIRING CONNECTS ALL CARDS OF LINE PAIR
2. EXTERNAL MODEM CABLE PN 5993201 CONNECTS FROM EXTERNAL MODEM TO I/O GATE
3. FLAT CABLE P/N 5997936 CONNECTS FROM I/O GATE TO TOP CARD CONNECTOR TO TERMINATE CARD
4. ONLY ONE DIGITAL LINE AVAILABLE
5. DIGITAL LEVELS

   SPACE OR CONTROL ON = > 23 mA (+1V)
   MARK OR CONTROL OFF = < 5 mA (-.7V)
   OPEN CIRCUIT CONTROL OFF
6. E1A LEVELS

   SPACE OR CONTROL ON +3V TO +25V
   MARK OR CONTROL OFF - 3V TO -25V
7. SIGNALS DRIVEN FROM 3705 SHOULD RANGE BETWEEN ±5V AND ±15V
8. LEVELS

	+	-
MST	-0.6 TO -0.9V	-1.5V TO -2.3V
SLT	+3V NOM	0V NOM
E1A	+3V TO +25V	-3V TO -25V
DIGITAL	>23 mA	<5 mA

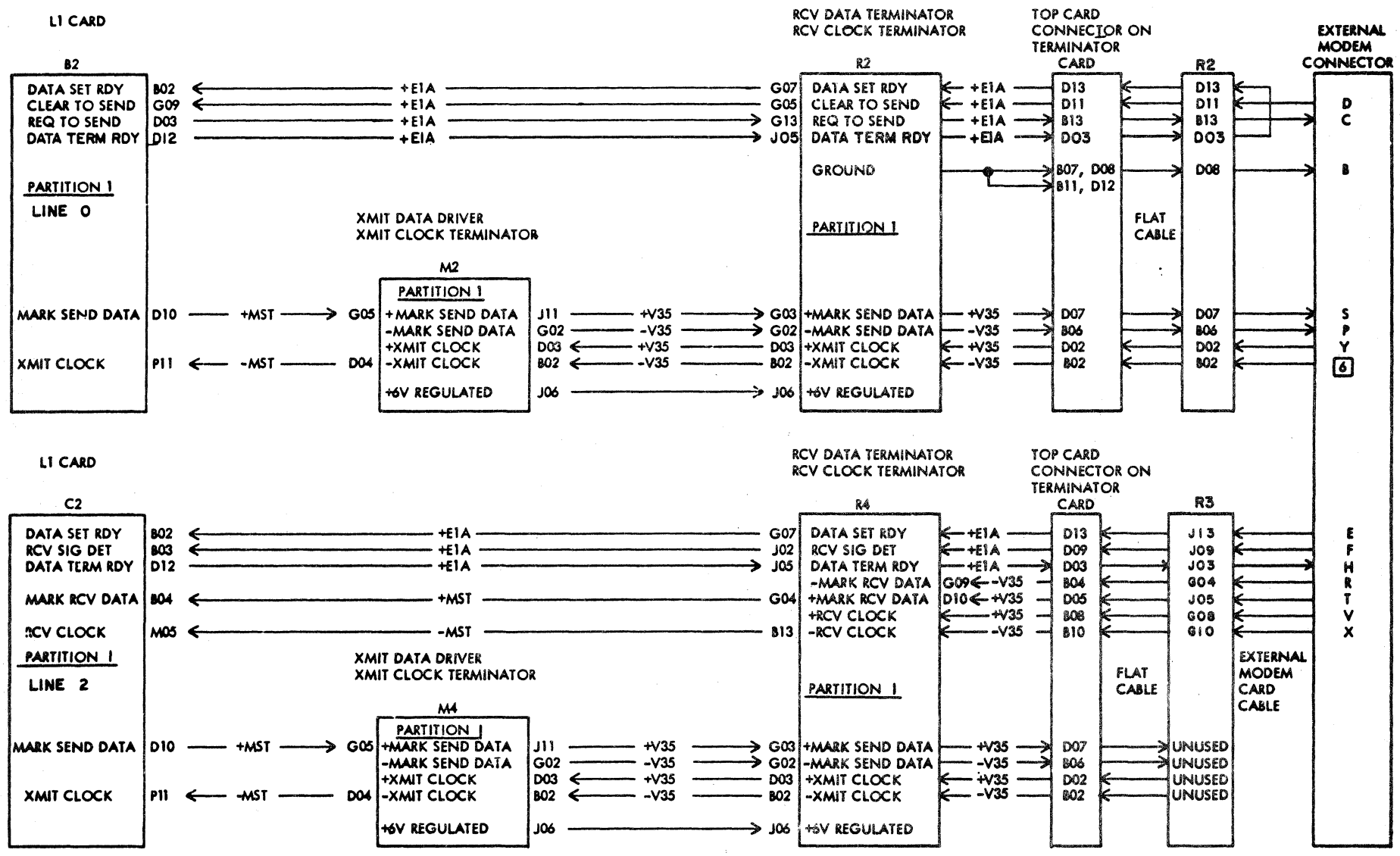
		LINE PARTITION	RED WIRE BOARD JUMPERS				
		1 0/2	B2B04-C2B04	B2D03-C2D03	B2B02-C2B02	B2B03-C2B03	C2P08 C2M10

IBM					DATE	CHANGE NO		DATE	CHANGE NO
NAME	LINE SET TYPE 3 HIGH SPEED				NOV80	344401			
	DIGITAL SYNC — DUPLEX								
DESIGN	DEL	NOV80	SHT OF						
DETAIL									
CHECK			CLASSIFICATION		MUST CONFORM TO ENG SPEC	DEVELOPMENT NO		LOGIC PG NO	
APPRO								VA013	

8550135 C

630-0134-1 MROR 7800888204 VERTICAL ELECTRICAL FORMAT ASTROCLOTH N6807

PART NO 8550136 | LOGIC PG NO VA014



CARD LOCATIONS ARE SHOWN FOR LINE 0 (TRANSMIT) AND LINE 2 (RCV)

NOTES

1 X1 BOARD WIRING CONNECTS ALL CARDS OF LINE PAIR

2 V35 DIFFERENTIAL VOLTAGE LEVELS REFERENCED TO SIGNAL GROUND:
MARK: -0.44V TO -0.66V
SPACE: +0.44V TO +0.66V

3 ONLY 1 V35 LINE AVAILABLE

4 FLAT CABLE P/N 5997936 CONNECTS FORM I/O GATE TO TOP CARD CONNECTOR ON 1820 CARD.

5 CABLE P/N 1648394 CONNECTS FROM EXTERNAL MODEM TO I/O GATE EXTERNAL MODEM

[6] THIS PIN WILL BE LABELED "AA" OR "a". BOTH LABELS ARE CORRECT

IBM					DATE	CHANGE NO		DATE	CHANGE NO
NAME	LINE SET 2 V35 INTERFACE				NOV80	344401			
	DUPLEX								
DESIGN	DEL	NOV80	SHT OF						
DETAIL									
CHECK			CLASSIFICATION		MUST CONFORM TO ENG SPEC	DEVELOPMENT NO		LOGIC PG NO	
APPRO								VA014	

8550136 C

IBM

	NAME	DATE
APPRO		
CHECK		
DETAIL		
DESIGN	DEL	NOV80

CLASSIFICATION

LINE SET TYPE 5 FOR LOCAL ATTACH HALF DUPLEX V35 INTERFACE

SHT 1 OF 1

MUST CONFORM TO ENG SPEC

DEVELOPMENT NO	CHANGE NO	DATE
	344401	NOV80

LOGIC PG NO	DATE
VA015	

CHANGE NO	

8550137 C

8550137 C

LI CARD
B2

DATA SET RDY	B02	+E1A	G07
CLEAR TO SEND	G09	+E1A	G05
RCV SIG DET	B03	+E1A	J02
REQ TO SEND	D03	+E1A	G13
DATA TERM RDY	D12	+E1A	J05
MARK RCV DATA	B04	+MST	G04
RCV CLOCK	M05	-MST	B13
	(1)	-MST	B12

POSITION 0

XMIT DATA DRIVER
M2

POSITION 0

MARK SEND DATA	D10	+MST	G05	+ MARK SEND DATA	J11 +V35 G03
				- MARK SEND DATA	G02 -V35 G02
				+ XMIT CLOCK	D03 +V35 D03
XMIT CLOCK	P11	-MST	D04	- XMIT CLOCK	B02 +V35 B02
	(2)	+MST	B12		

RCV DATA TERMINATOR
R2

POSITION 0

TOP CARD CONNECTOR ON TERMINATOR CARD

I/O GATE CONNECTOR

EXTERNAL CABLE CONNECTOR

DATA SET RDY	+E1A	D13	D13	H
CLEAR TO SEND	+E1A	D11	D11	D
RCV SIG DET	+E1A	D09	D09	F
REQ TO SEND	+E1A	B13	B13	E
DATA TERM RDY	+E1A	D03	D03	P
- MARK RCV DATA	G09 -V35	B04	B04	S
+ MARK RCV DATA	D10 +V35	D05	D05	[5]
+ XMIT CLOCK OUT	+V35	B08	B08	Y
- XMIT CLOCK OUT	-V35	B10	B10	B
GROUND		B07,D08	D08	C
		B11,D12	D10 [6]	
+ MARK SEND DATA	+V35	D07	D07	T
- MARK SEND DATA	-V35	B05	B05	R
+ REC CLOCK OUT	+V35	D02	D02	X
- REC CLOCK OUT	-V35	B02	B02	V

FLAT CABLE

CARD LOCATIONS ARE SHOWN FOR LINE 0. REFER TO VA000 FOR CARD LOCATIONS OF OTHER LINES.

NOTES

1. X1 BOARD WIRING CONNECTS ALL CARDS OF LINE PAIR.
2. V35 DIFFERENTIAL VOLTAGE LEVELS REFERENCED TO SIGNAL GROUND:
   MARK: -0.44V TO -0.66V
   SPACE: +0.44V TO +0.66V
3. FLAT CABLE P/N 5997936 CONNECTS FORM I/O GATE TO TOP CARD CONNECTOR ON CF41 CARD.
4. CABLE P/N 1752941 CONNECTS FROM I/O GATE (TAILGATE) TO LOCAL 3706 OR TERMINAL.

[5] THIS PIN WILL BE LABELED "AA" OR "a". BOTH LABELS ARE CORRECT.
[6] THIS PIN USED ONLY AS A TIE POINT
[7] JUMPER B05 TO B07 FOR 14.4 CLOCK
JUMPER B09 TO B07 FOR 57.6 CLOCK

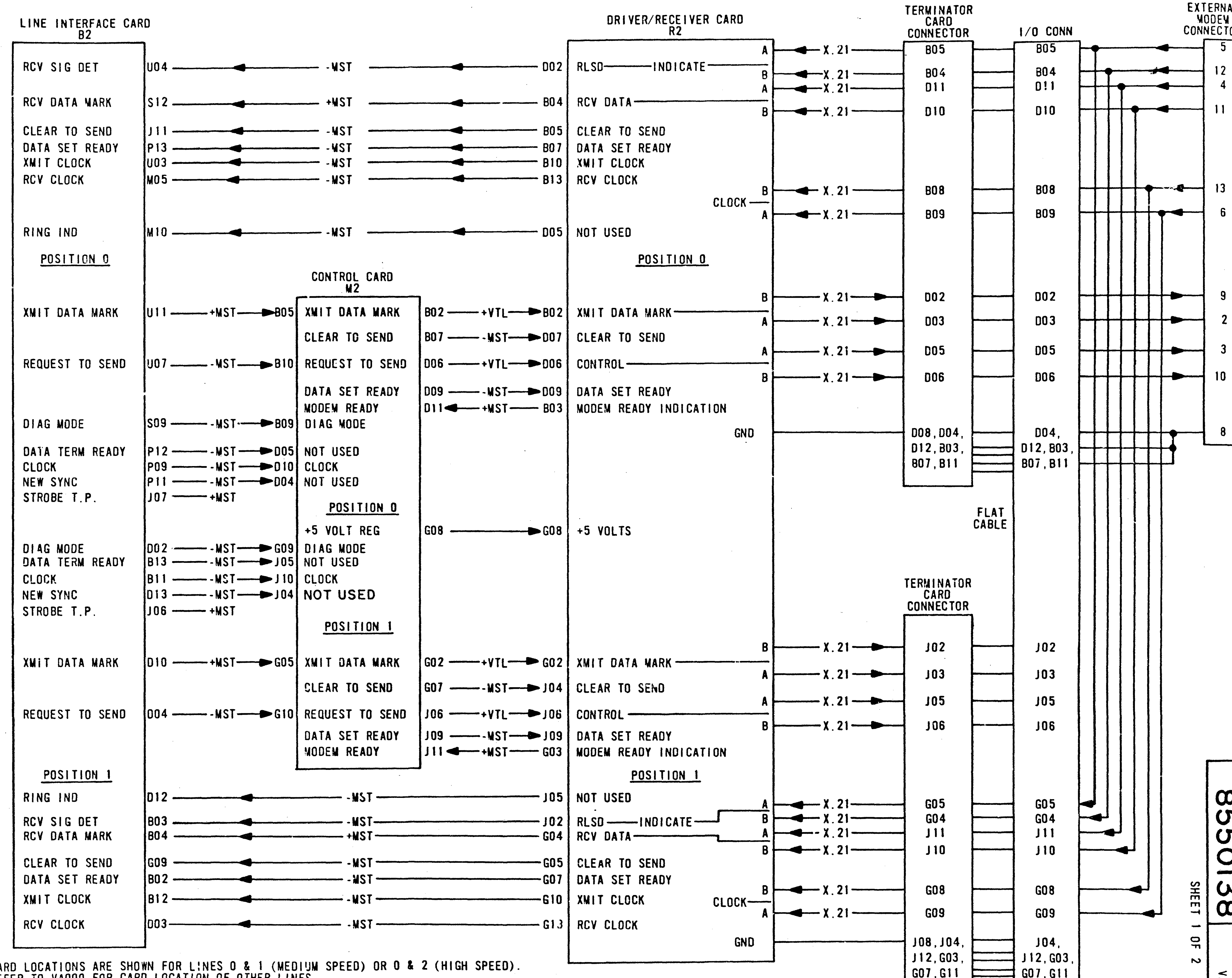
LOCAL ATTACH CLOCK CARD
G4

- RCV CLOCK	B02	(1)
+ RCV CLOCK	D02	
- XMIT CLOCK	B03	(2)
+ XMIT CLOCK	D03	
	B05	
	B07	[7]
	B09	

8550137 C

PART NO 8550137 LOGIC PG NO VA015

8550138 C



CARD LOCATIONS ARE SHOWN FOR LINES 0 & 1 (MEDIUM SPEED) OR 0 & 2 (HIGH SPEED).
REFER TO VA000 FOR CARD LOCATION OF OTHER LINES.

NOTES:
1. LINE SET EXTERNAL CABLE P/N 1754225.
2. FLAT CABLE P/N 5997936 CONNECTS FROM I/O GATE TO TOP CARD CONNECTOR ON DRIVER/RECEIVER CARD.
3. X.21 DIFFERENTIAL SIGNALS SHALL BE ±.3 VOLTS TO ±6.0 VOLTS ("0" = SPACE = ON = +A-B)
("1" = MARK = OFF = -A+B)

IBM

NAME	LINE SET 8 AND 9
	X.21 LINE
DESIGN	DEL NOV80 SHT 1 OF 2
DETAIL	TS NOV80
CHECK	
APPRO	JJS APR79

MUST CONFORM TO ENG SPEC

DATE	CHANGE NO
NOV80	344401

DEVELOPMENT NO

LOGIC PG NO VA017

PART NO 8550138

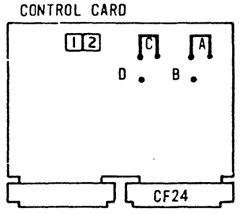
SHEET 1 OF 2

LOGIC PG NO VA017

8550138 C

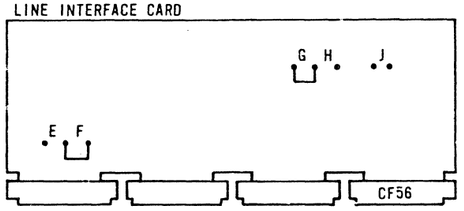
CARD JUMPERS:

CONTROL CARD



USE JUMPER P/N 816645

LINE INTERFACE CARD



A AND C – JUMPER FOR CTS DELAY
B AND D – JUMPER FOR NO CTS DELAY

NOTES
1. LINE SET TYPE 8 OR 9 (NON-SWITCHED): JUMPER A & C, AS SHOWN ABOVE UNLESS THE NETWORK ALLOWS IMMEDIATE DATA TRANSMISSION WITHOUT A CTS DELAY.
2. LINE SET TYPE 8 OR 9 (SWITCHED): JUMPER B & D FOR A NO CTS DELAY. THE REQUIRED DELAY IS PROVIDED BY THE 3705 INTERNAL CLOCK TIMING.

E - JUMPER FOR HIGH SPEED (ABOVE 20K BPS)
F - JUMPER FOR MEDIUM SPEED (BELOW 20K BPS)
G - JUMPER FOR TYPE 8 OR 9, NON-SWITCHED
H - JUMPER FOR TYPE 8 OR 9, SWITCHED
J - JUMPER FOR TYPE 8 OR 9, SWITCHED

(JUMPERS SHOWN ABOVE ARE FOR MEDIUM SPEED, NON-SWITCHED OPERATION)

THE FOLLOWING JUMPERS REQUIRED ONLY FOR HIGH SPEED LINES: LINE SET 9

PARTITION 1			
B2S05-C2M13			

	NAME	DATE
APPRO	JJS	APR79
CHECK		
DETAIL	DEL	NOV80
DESIGN		

TEXT

X.21 LINE

LINE SET 8 AND 9

SHT 2 OF 2

MUST CONFORM TO ENG SPEC

CHANGE NO	DATE
344401	NOV80

DEVELOPMENT NO

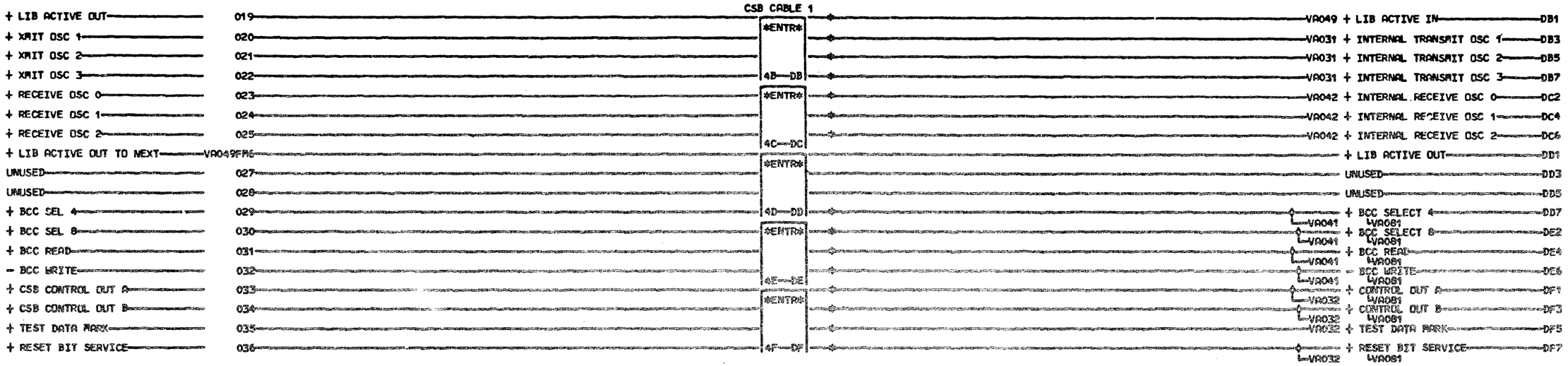
LOGIC PG NO VA017

8550138 C

8550138 C

SHEET 2 OF 2

VA017



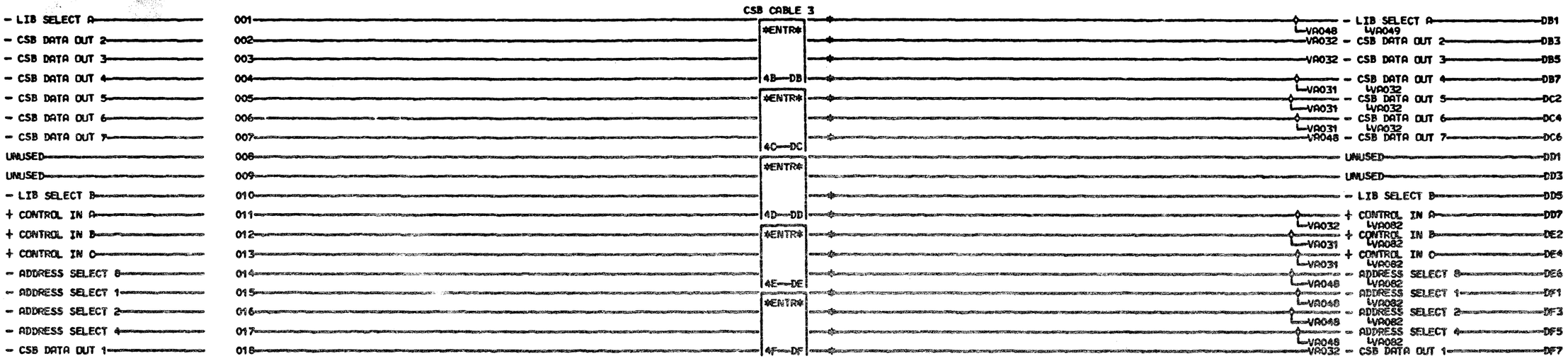
NOTE. CABLES 1-3 MAY BE TRACED ON PAGES VA001 AND VA002. TYPE 2CS SOURCE SINK POINTS ARE ON TA001&TA002 AND TA003 FOR CABLES 1-3 RESPECTIVELY.

000

DB1 X-X1A6D04 DC4 X-X1C6A04 01X-X1B1C11 DF7 X-X1C6E02 01X-X1E6C02
DB3 X-X1B6A04 01X-X1C1A13 DE6 X-X1B6D02 01X-X1C1E11 DL4 X-X1E1D11
01X-X1B1A13 DC6 X-X1C6B04 01X-X1B1D11 DH1 X-X1F6B04 01X-X1E6D02
DB5 X-X1B6B04 01X-X1C1B13 DF1 X-X1C6A02 01X-X1F1B13 DM7 X-X1G1A11
01X-X1B1B13 DD7 X-X1A6E02 01X-X1C1A11 DH5 X-X1E6A02 01X-X1G6A02
DB7 X-X1B6C04 01X-X1A1E11 DF3 X-X1C6B02 01X-X1E1A11
01X-X1B1C13 DE2 X-X1B6B02 01X-X1C1B11 DK5 X-X1F6E04
DC2 X-X1B6E04 01X-X1B1B11 DF5 X-X1C6C02 01X-X1D1E13
01X-X1B1E13 DE4 X-X1B6C02 01X-X1C1C11 DL2 X-X1E1C11

11-25-80 344401

CSB - LIB INTERFACE				
DATE	12-02-80	PACH. 3705		VA020
LOG	966	FRAME	01	
		P.N. 8550126		000
IBM CORP.	SCD	BLK.	DM	

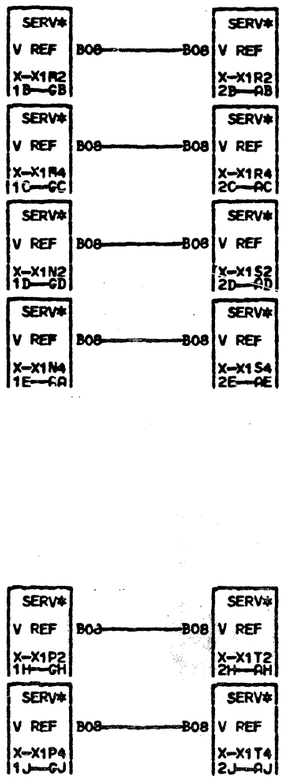


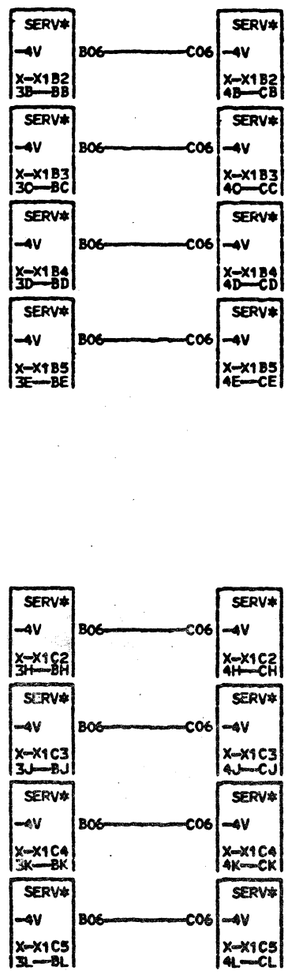
NOTE. SEE NOTE PAGE VA020.

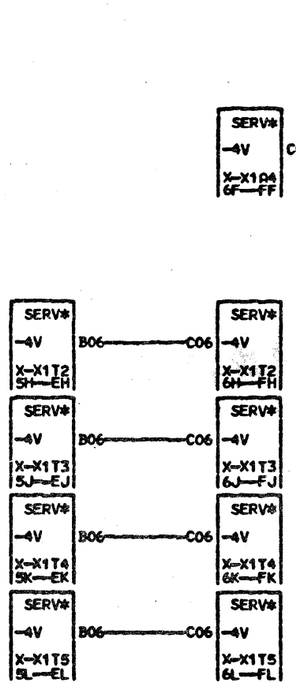
DB1 X-X1H6A04 01 X-X1J1B13 DE2 X-X1H6D02 01 X-X1J1D11
01 X-X1H1A11 DC4 X-X1J6C04 01 X-X1H1D11 DF5 X-X1J6E02
DB3 X-X1H6C04 01 X-X1J1C13 DE4 X-X1H6E02 01 X-X1J1E11
01 X-X1H1C13 DC6 X-X1J6D04 01 X-X1H1E11 DF7 X-X1K6B02
DB5 X-X1H6D04 01 X-X1J1D13 DE6 X-X1J6A02 01 X-X1K1B11
01 X-X1H1D13 DD5 X-X1K6A04 01 X-X1J1A11
DB7 X-X1H6E04 01 X-X1H1A13 DF1 X-X1J6C02
01 X-X1H1E13 DD7 X-X1H6B02 01 X-X1J1C11
DC2 X-X1J6B04 01 X-X1H1B11 DF3 X-X1J6D02

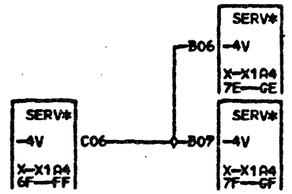
11-25-80 344401

CSB - LIB INTERFACE
DATE 12-02-80 RACH. 3705
LOG 966 FRAME 01
P.N. 8550128
IBM CORP. SCD BLK. DN







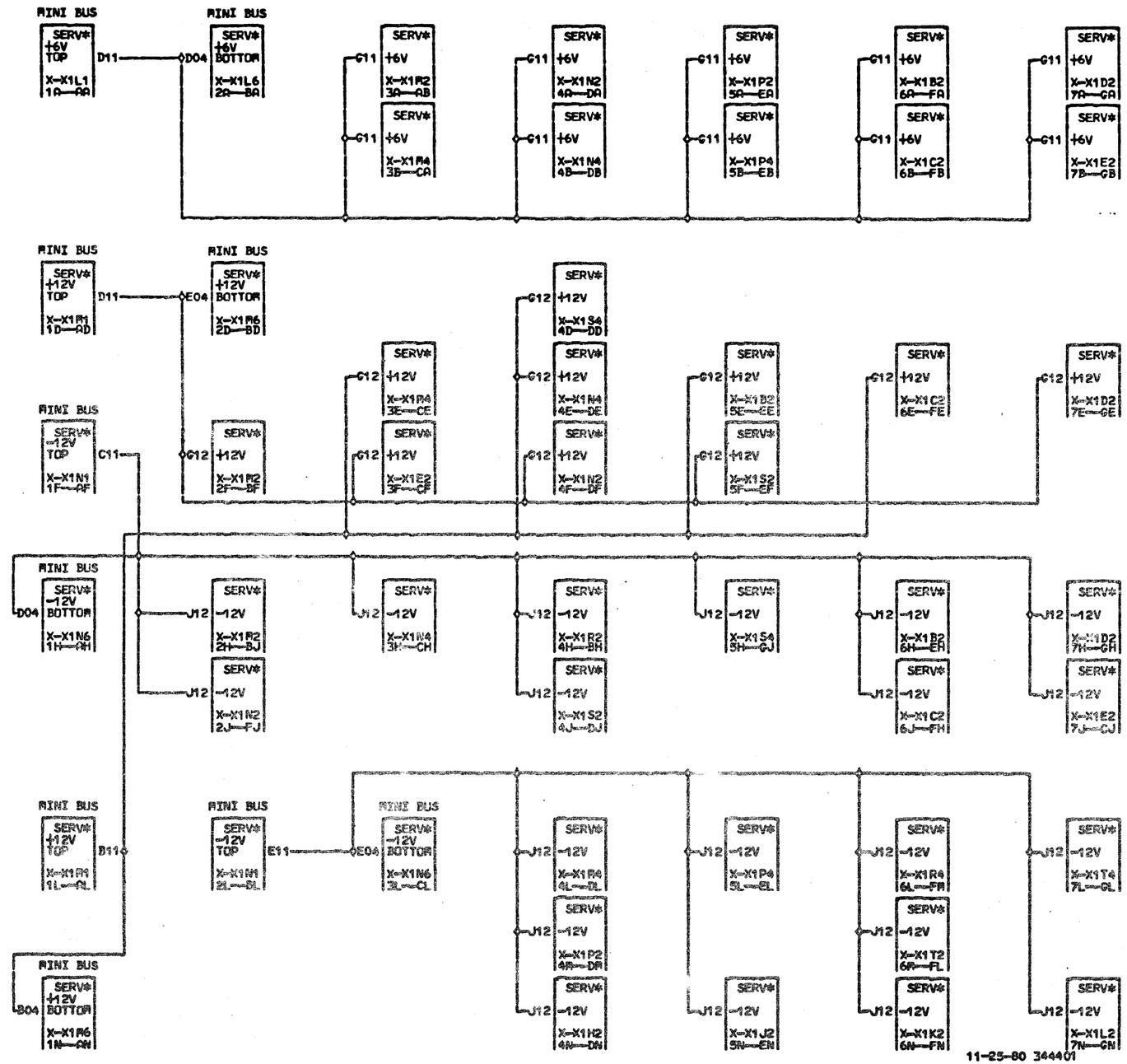


11-25-80 344401

VR024
000

SERVICE VOLTAGES
DATE 12-02-80 MACH. 3705
LOG 966 FRAME 01
P.N. 8550143
IBM CORP. SCD BLK. MR

VR024
000

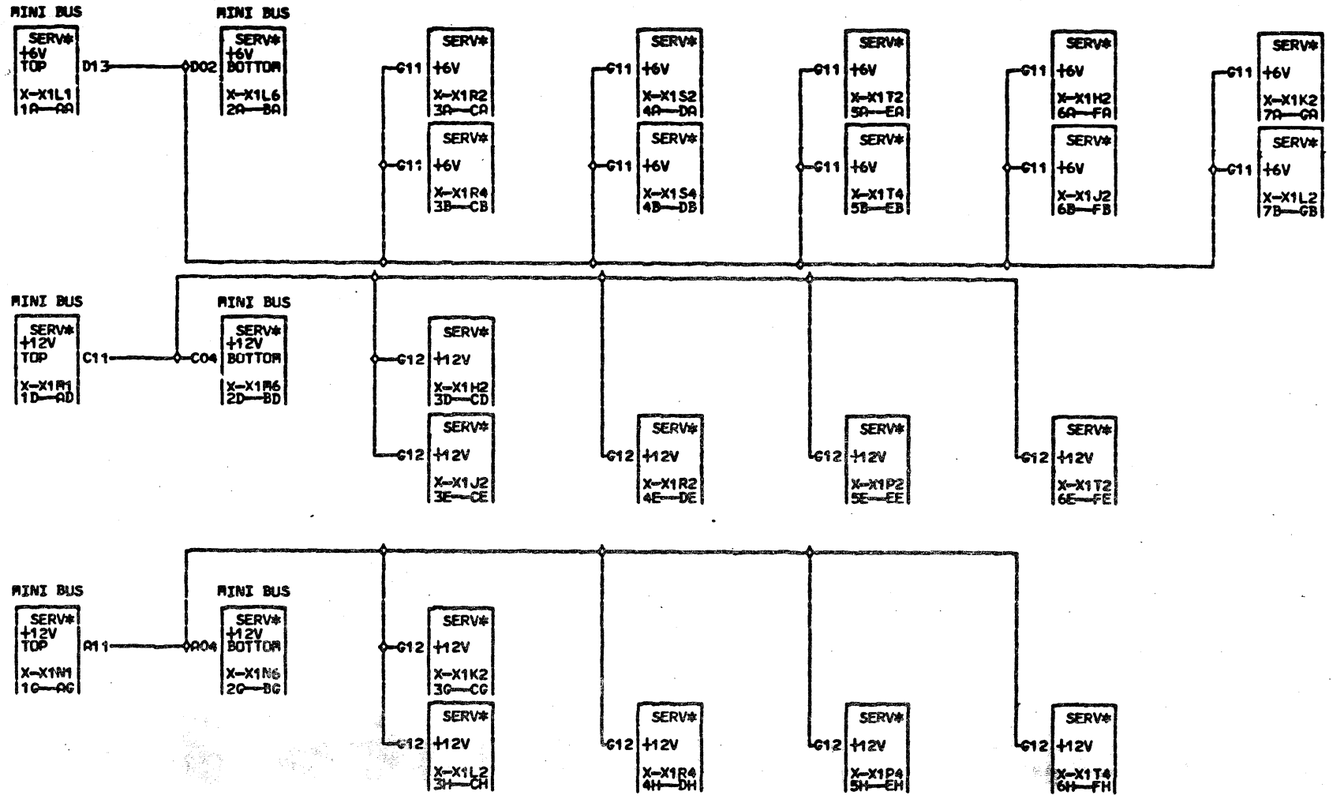


* JUMPER FROM LAMINAR BUS
* TO MINI BUS WILL BE AT
* TOP OR BOTTOM OF BOARD
* BUT NOT BOTH.

VA025 000

11-25-80 344401

SERVICE PAGE			VA025
DATE 12-02-80	MACH. 3705		
LOG 966	FRAME	01	
	P.N. 8550144		000
IBM CORP. SCD BLK.		GP	



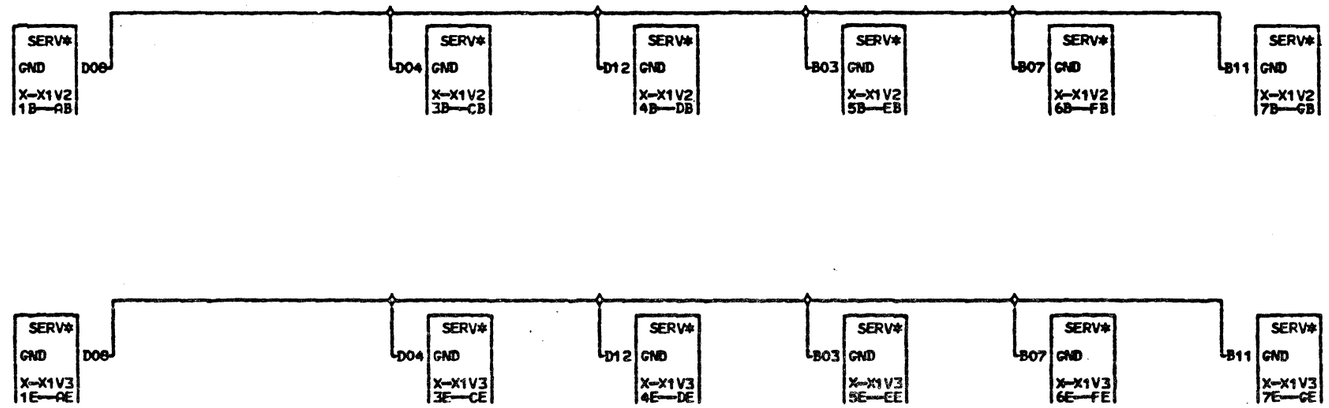
*JUPPER FROM LAMINAR BUS
*TO MINI BUS WILL BE AT
*TOP OR BOTTOM OF BOARD
*BUT NOT BOTH.

VA026 000

11-25-60 344401

SERVICE PAGE			
DATE	12-02-60	PAGE No. 3705	
LOG	966	FRAME	01
		P.N. 8550145	
IBM CORP.	SCD BLK.		GJ

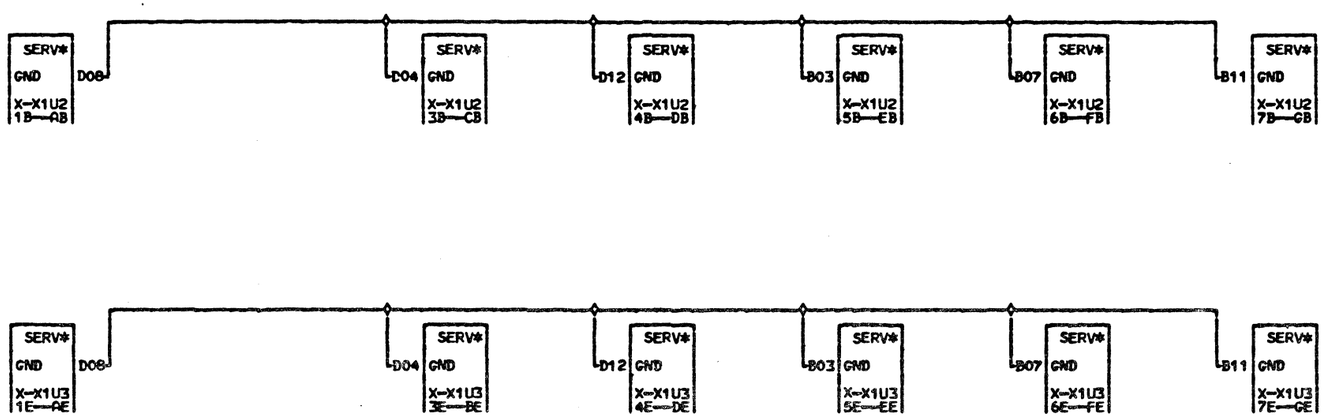
VA026 000



11-25-60 344401

SERVICE VOLTAGES
DATE 12-02-60 MACH. 3705
LOG 966 FRAME 01
P.N. 8550146
IBM CORP. SCD BLK. GR

VA027 000



11-25-80 344401

VA028 000

SERVICE VOLTAGES

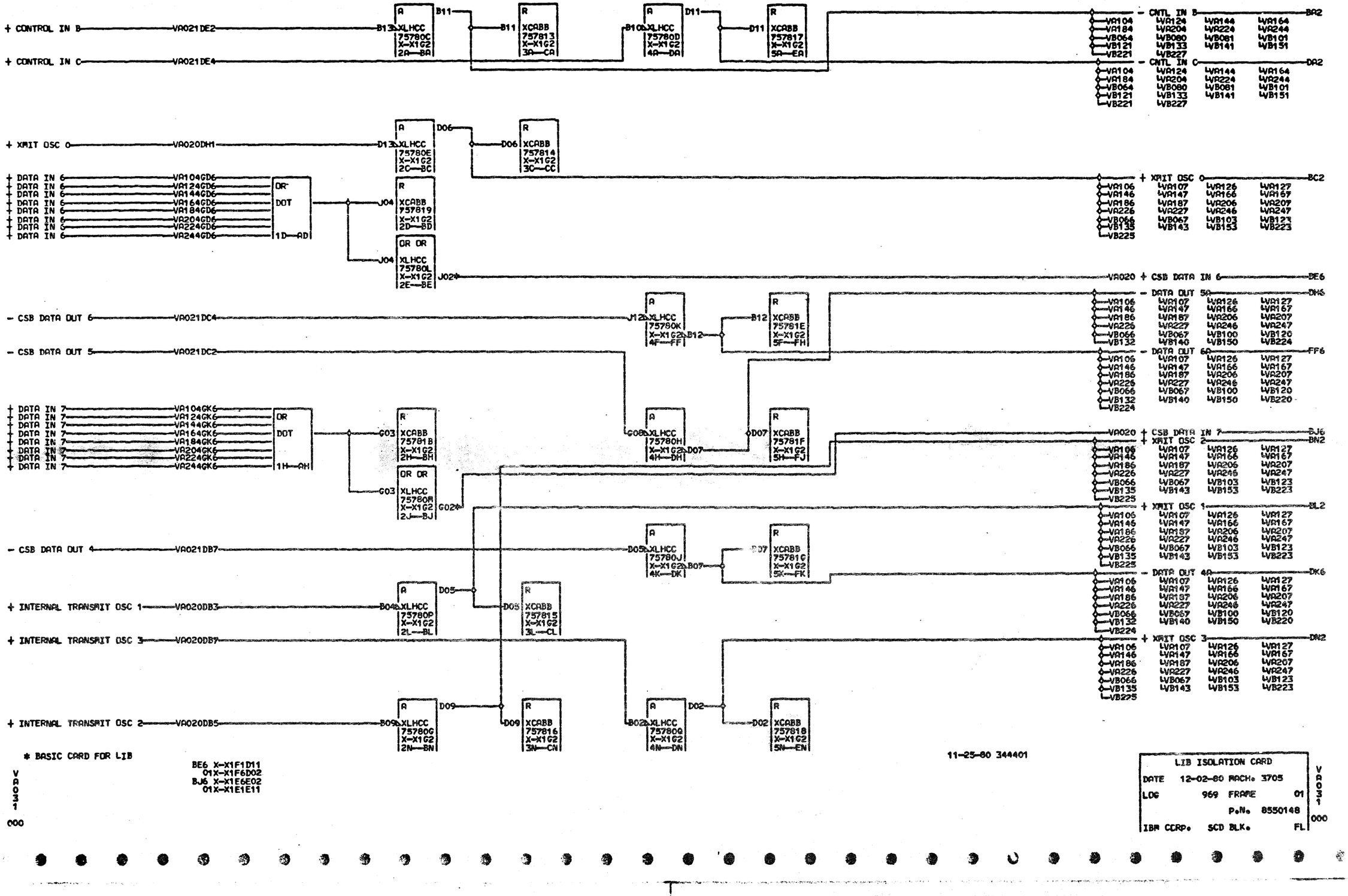
DATE 12-02-80 MACH# 3705

LOG 966 FRAME 01

P#N# 8550147

IBM CORP# SCD BLK# GR

VA028 000



* BASIC CARD FOR LIB

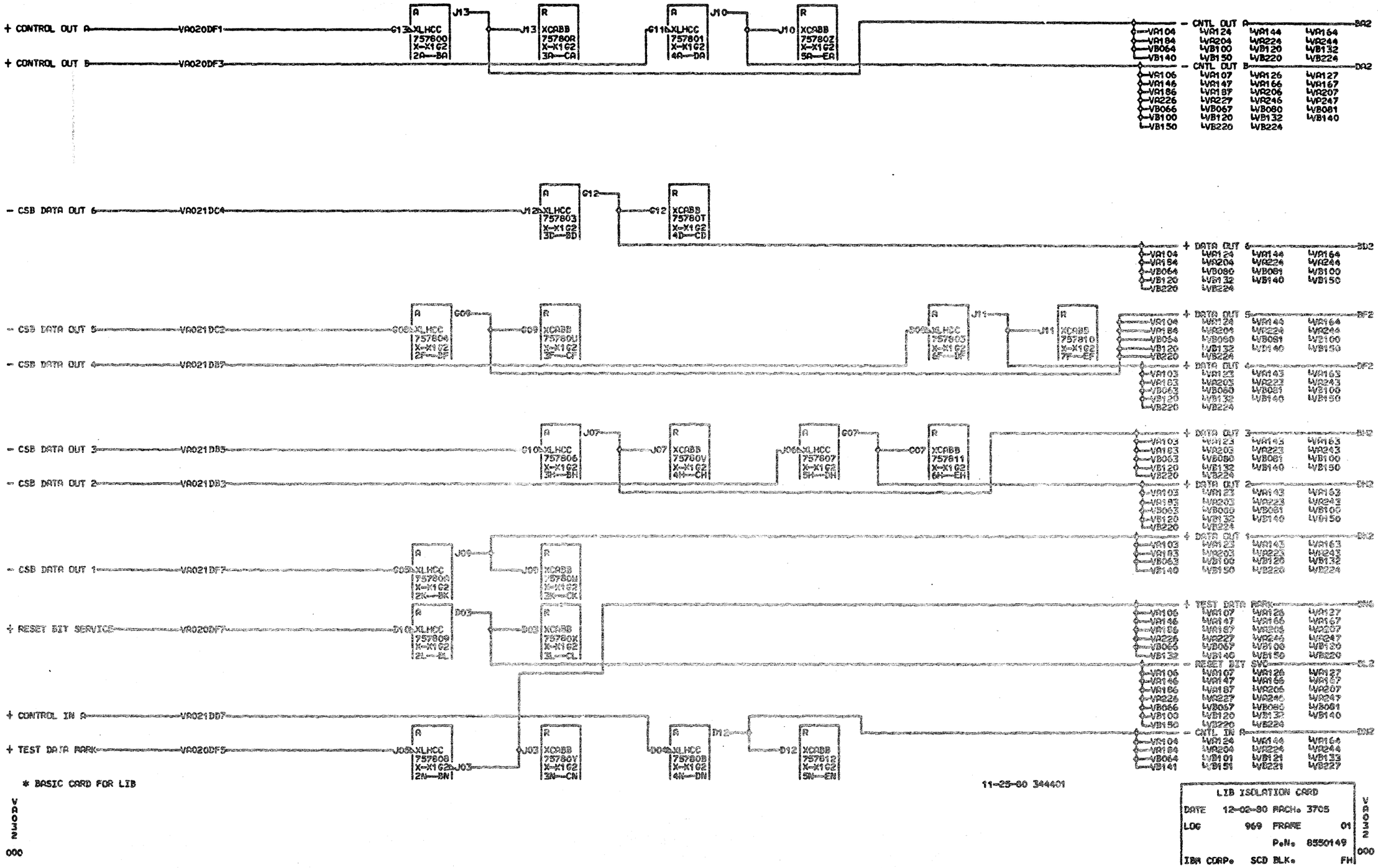
BE6 X-X1F1D11
01X-X1F6D02
BJ6 X-X1E6E02
01X-X1E1E11

V A 0 3 1 000

11-25-80 344401

LIB ISOLATION CARD				
DATE	12-02-80	MACH.	3705	
LOG	969	FRAME	01	
		P.N.	8550148	
IBM CORP.	SCD BLK.		FL	

V A 0 3 1 000

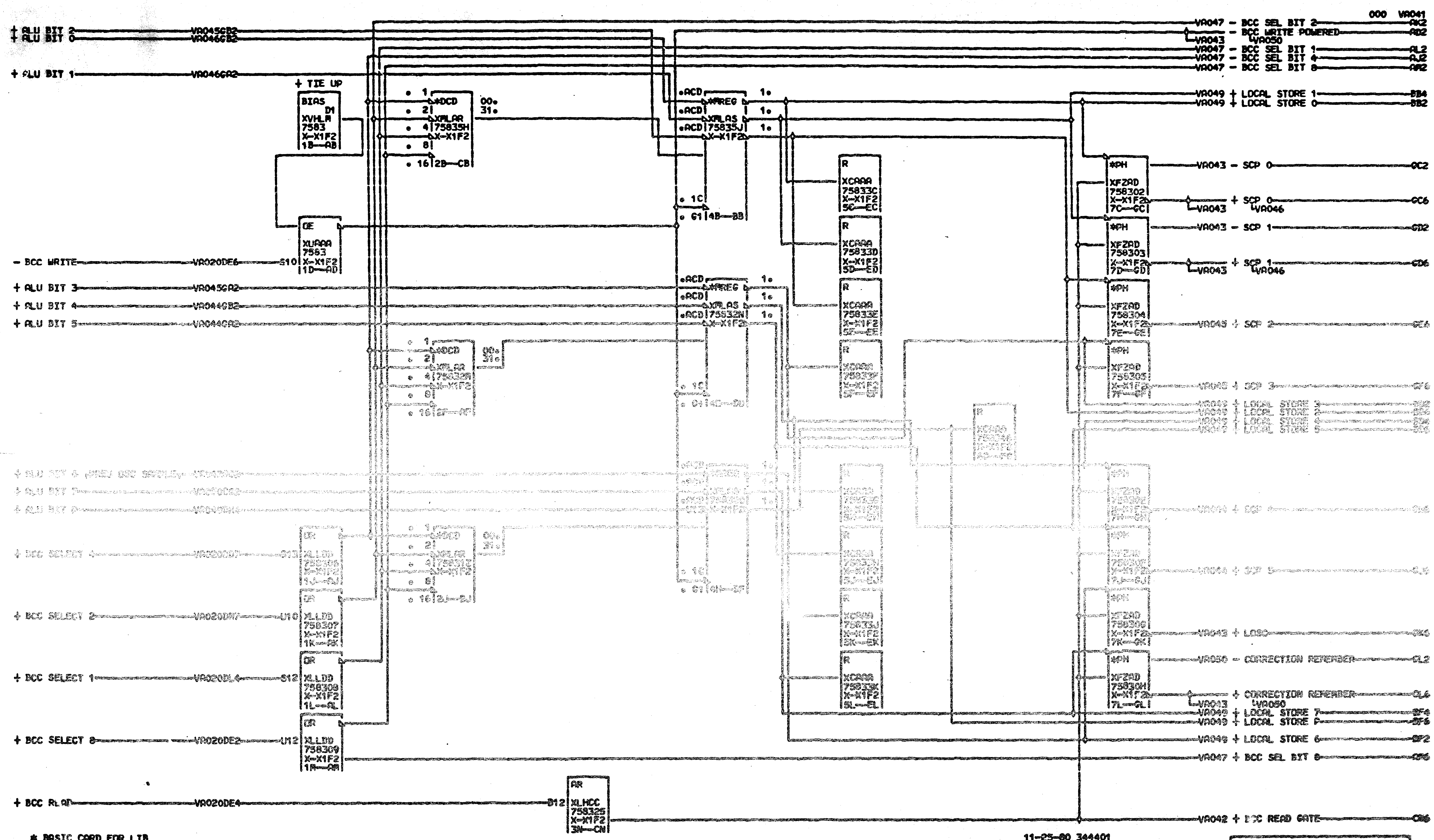


* BASIC CARD FOR LIB

11-25-80 344401

LIB ISOLATION CARD			
DATE	12-02-80	PACH.	3705
LOG	969	FRAME	01
		P.N.	8350149
IBM CORP.	SCD	BLK.	FH

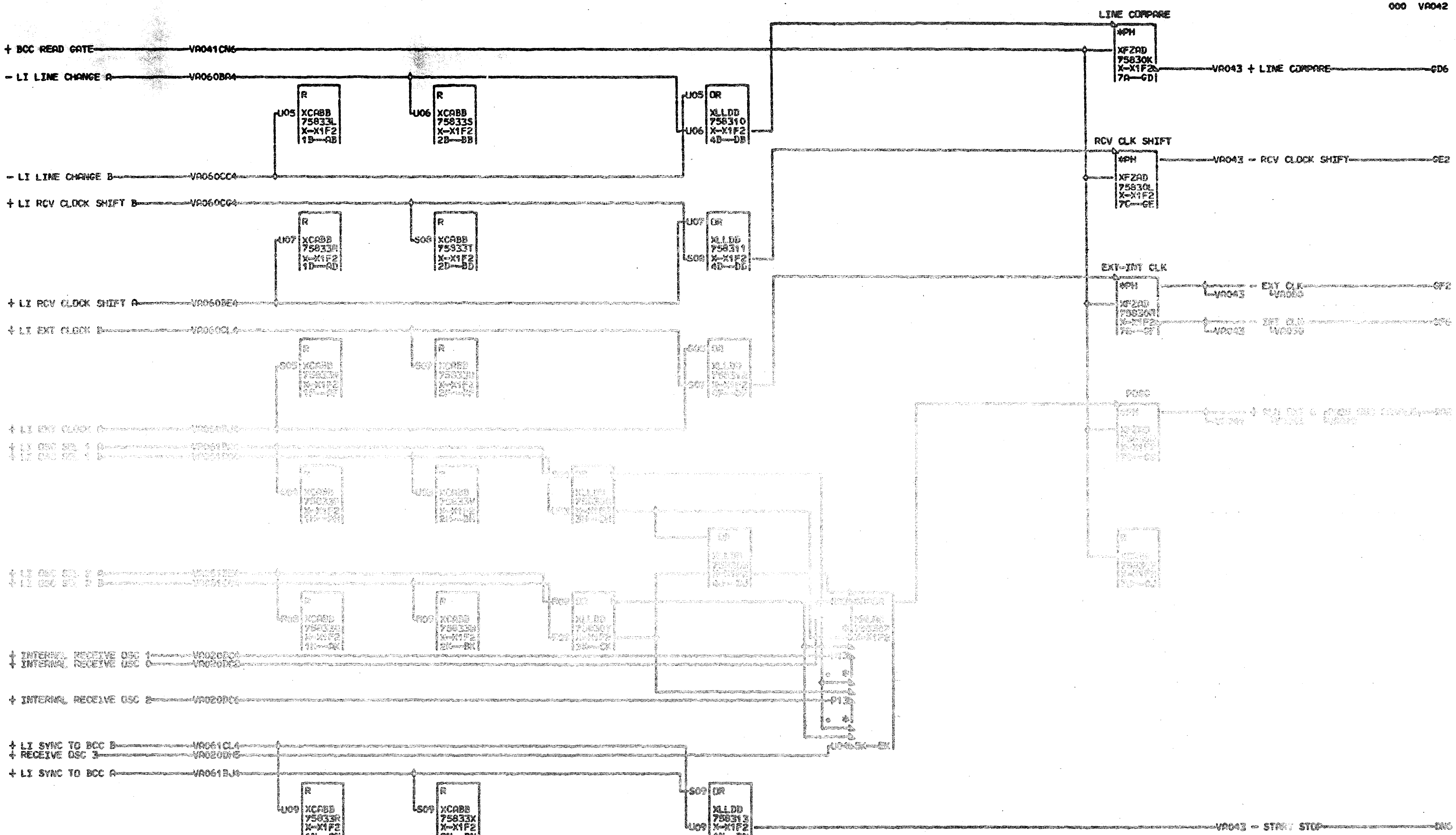
VA032 000



LIB BIT CLOCK CARD

DATE 12-02-80 MACH. 3703
LOG 966 FRAME 01
P.N. 8550341
IBM CORP. SCD BLK.

VA041
000



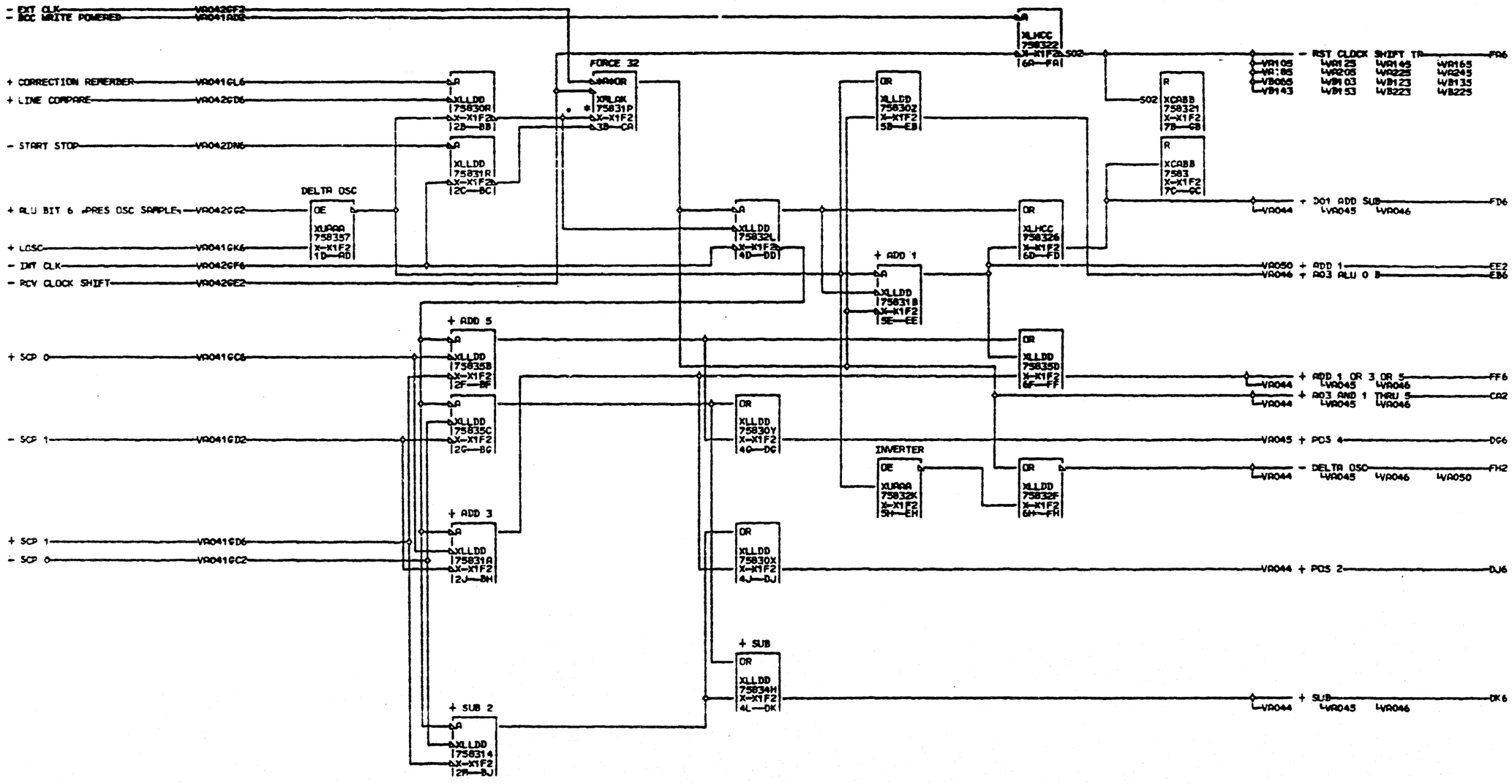
* BASIC CARD FOR LIB

V A 0 4 2 000

11-25-80 344401

LIB BIT CLOCK CARD			
DATE	12-02-80	MACH.	3705
LOG	966	FRAME	01
		P.N.	8550342
IBM CORP.	SCD	BLK.	GR

V A 0 4 2 000

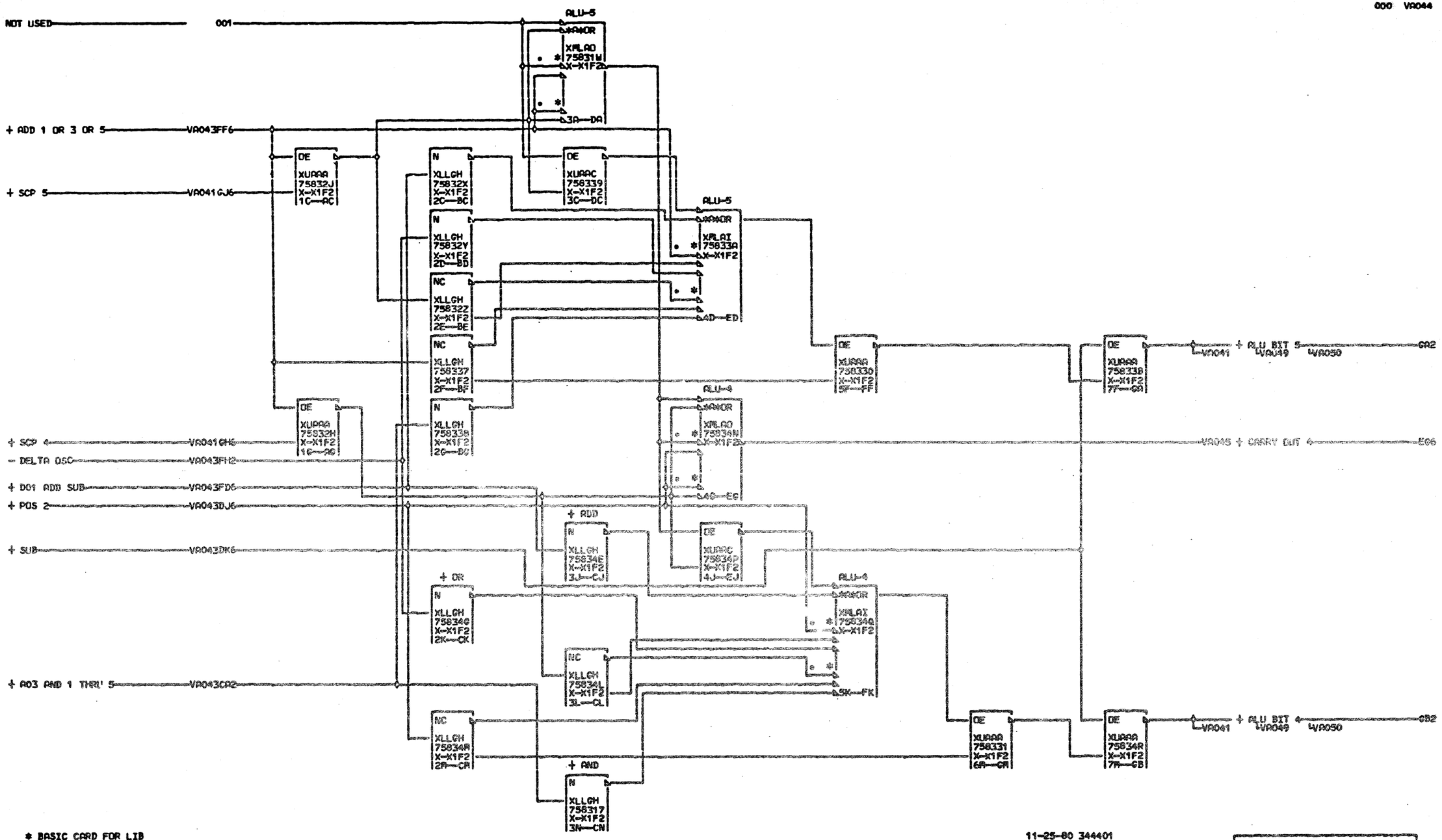


* BASIC CARD FOR LIB

VA043 000

11-25-80 344401

LIB BIT CLOCK CARD			VA043 000
DATE 12-02-80		PACH# 3705	
LOC	966	FRAME 01	
		P#N# 8550343	
IBM CORP#	SCD ELK#	GK	

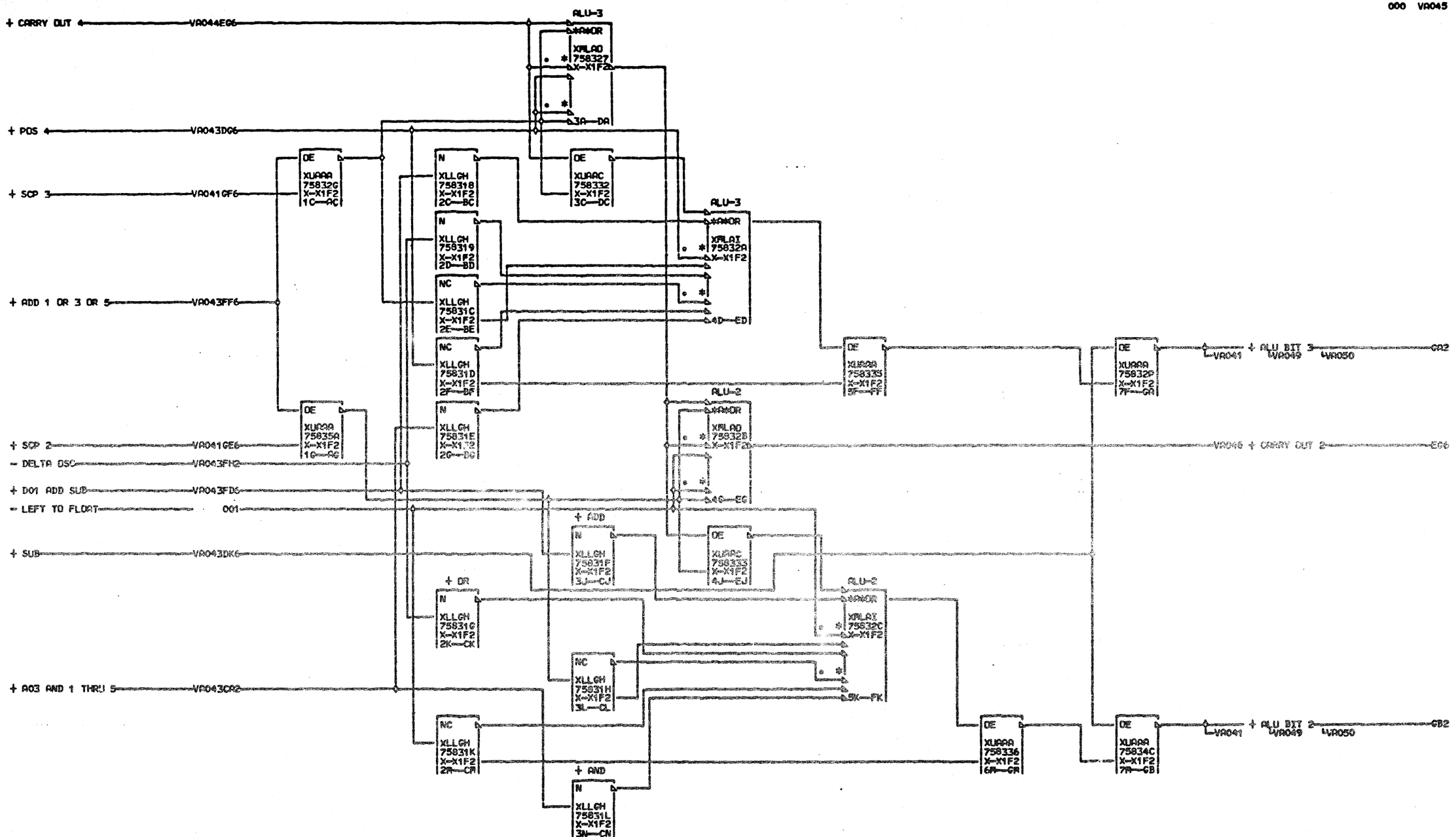


* BASIC CARD FOR LIB
* UNUSED INPUTS FLOAT MINUS.

11-25-80 344401

ALU BITS 5 AND 4			
DATE	12-02-80	MACH. 3705	
LOG	966	FRAME	01
		P.N. 8550344	
IBM CORP.	SCD BLK.		GN

VA044 000

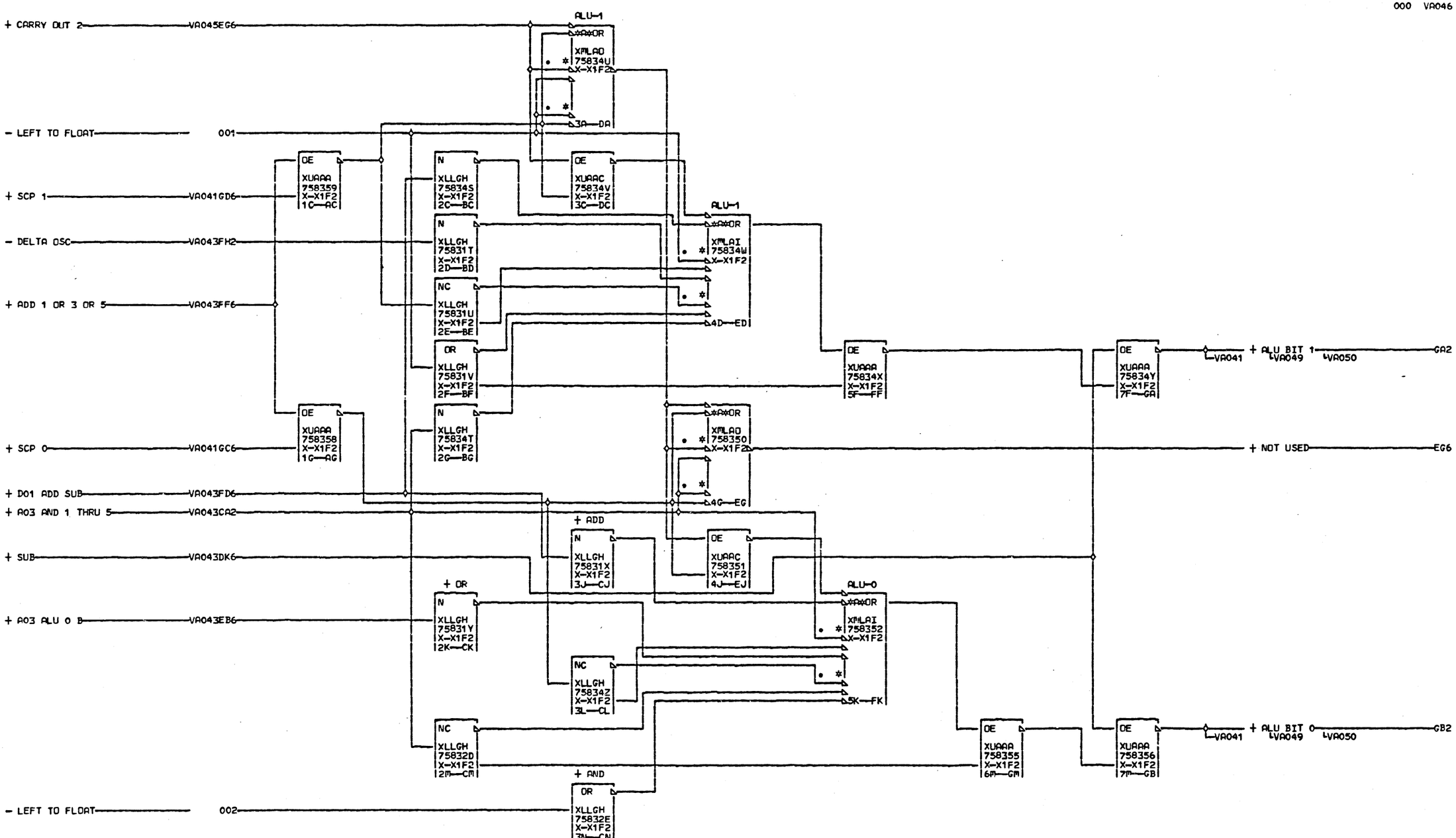


* BASIC CARD FOR LIB
* UNUSED INPUTS FLOAT MINUS

11-25-80 344401

ALU BITS 3 AND 2			
DATE	12-02-80	MACH. 3705	
LDG	966	FRAME	01
		P.No.	8550345
IBM CORP.	SCD BLK.		GN

VA045 000

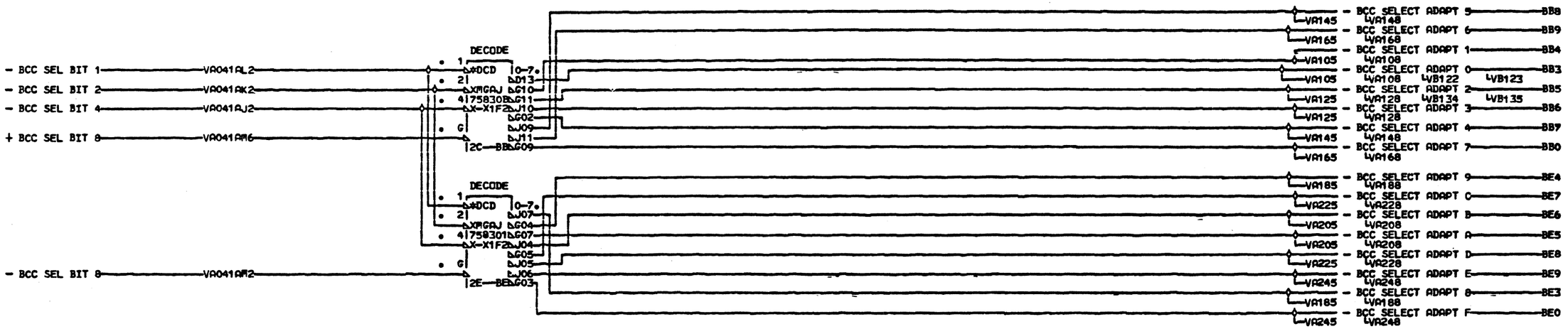


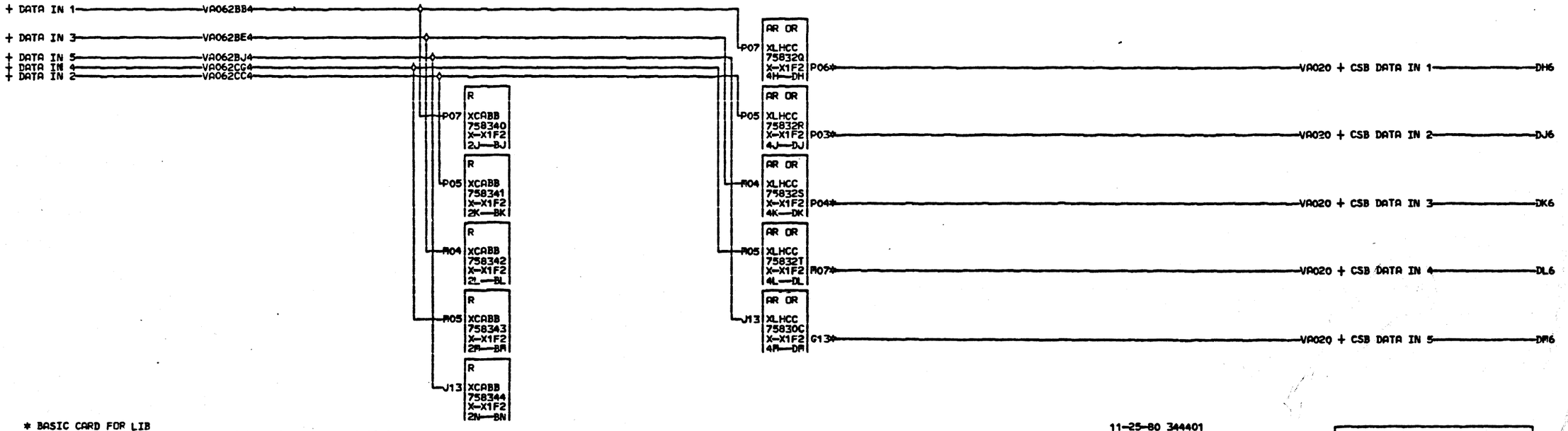
* BASIC CARD FOR LIB
* UNUSED INPUTS FLOAT MINUS

VA046
000

11-25-80 344401

ALU BITS 1 AND 0				VA046
DATE	12-02-80	MACH. 3705		
LOG	966	FRAME	01	
		P.N.	8550346	
IBM CORP.	SCD	BLK.	GN	000





* BASIC CARD FOR LIB

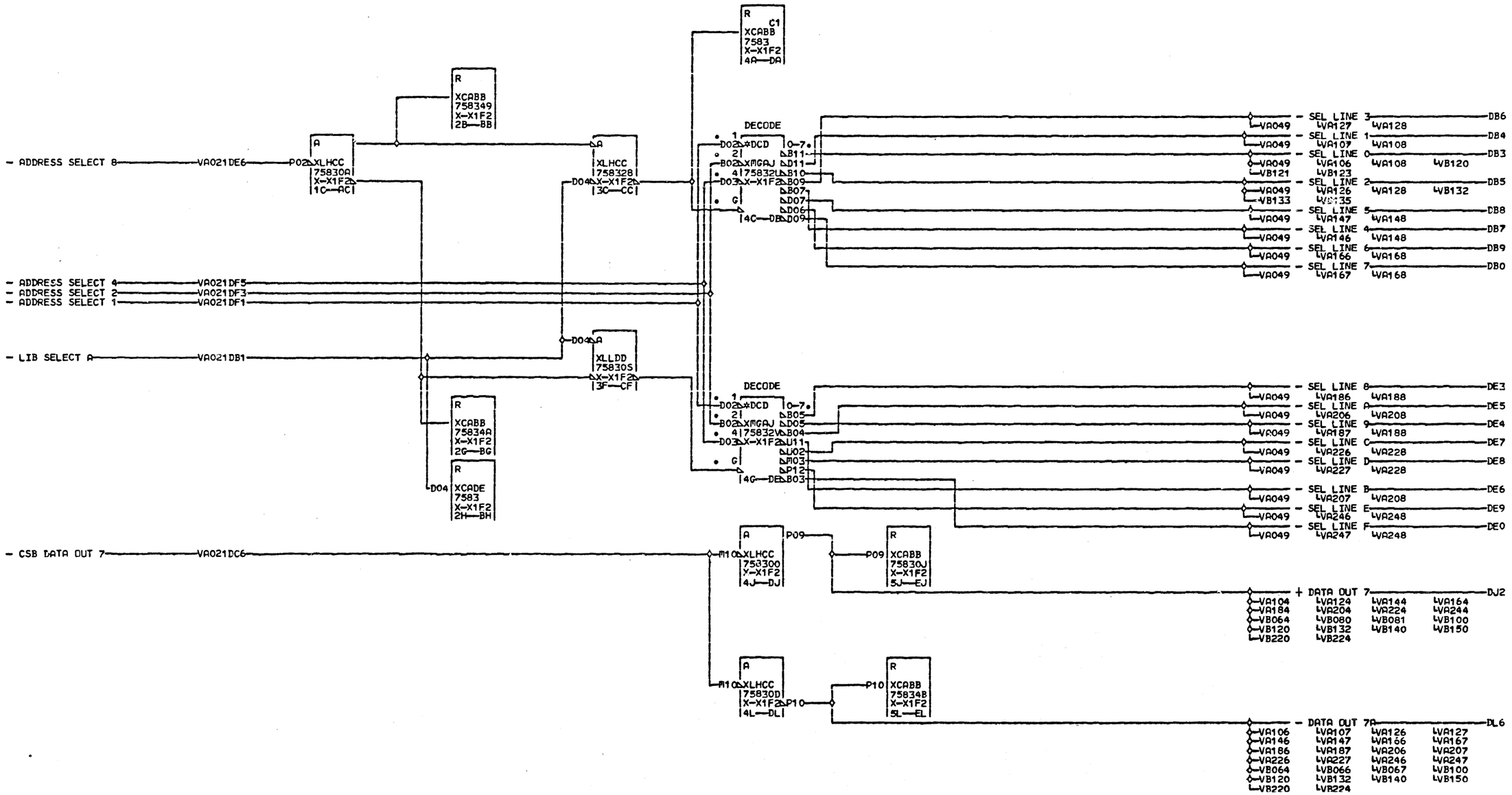
VA047 000

DH6 X-X1E6B04 01X-X1F6C02
01X-X1E1B13
DJ6 X-X1E6C04
01X-X1E1C13
DK6 X-X1E6D04
01X-X1E1D13
DL6 X-X1F1B11
01X-X1F6B02
DM6 X-X1F1C11

11-25-80 344401
04-13-81 344852

LIB BIT CLOCK CARD					
DATE	04-22-81	MACH.	3705		
LOG	237	FRAME		01	
		P.N.	8550347		
IBM CORP.	SCD	BLK.		GH	

VA047 000



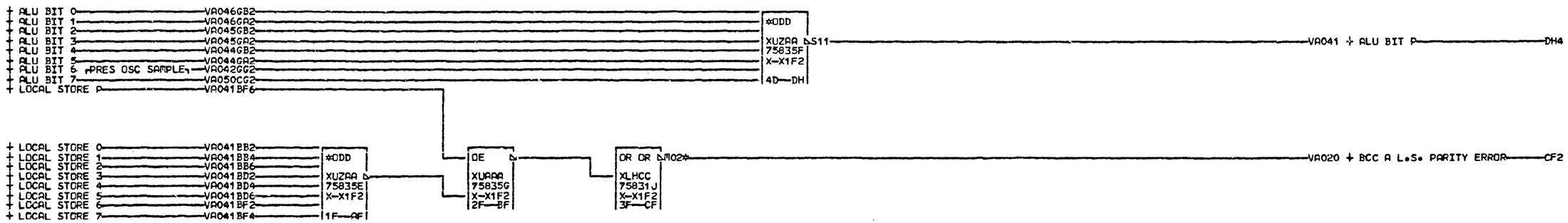
* BASIC CARD FOR LIB

VA048

000

11-25-80 344401

LIB BIT CLOCK CARD				
DATE 12-02-80	MACH. 3705			VA048
LOG 979	FRAME	01		
	P.N. 8550348			000
IBM CORP.	SCD BLK.		FN	



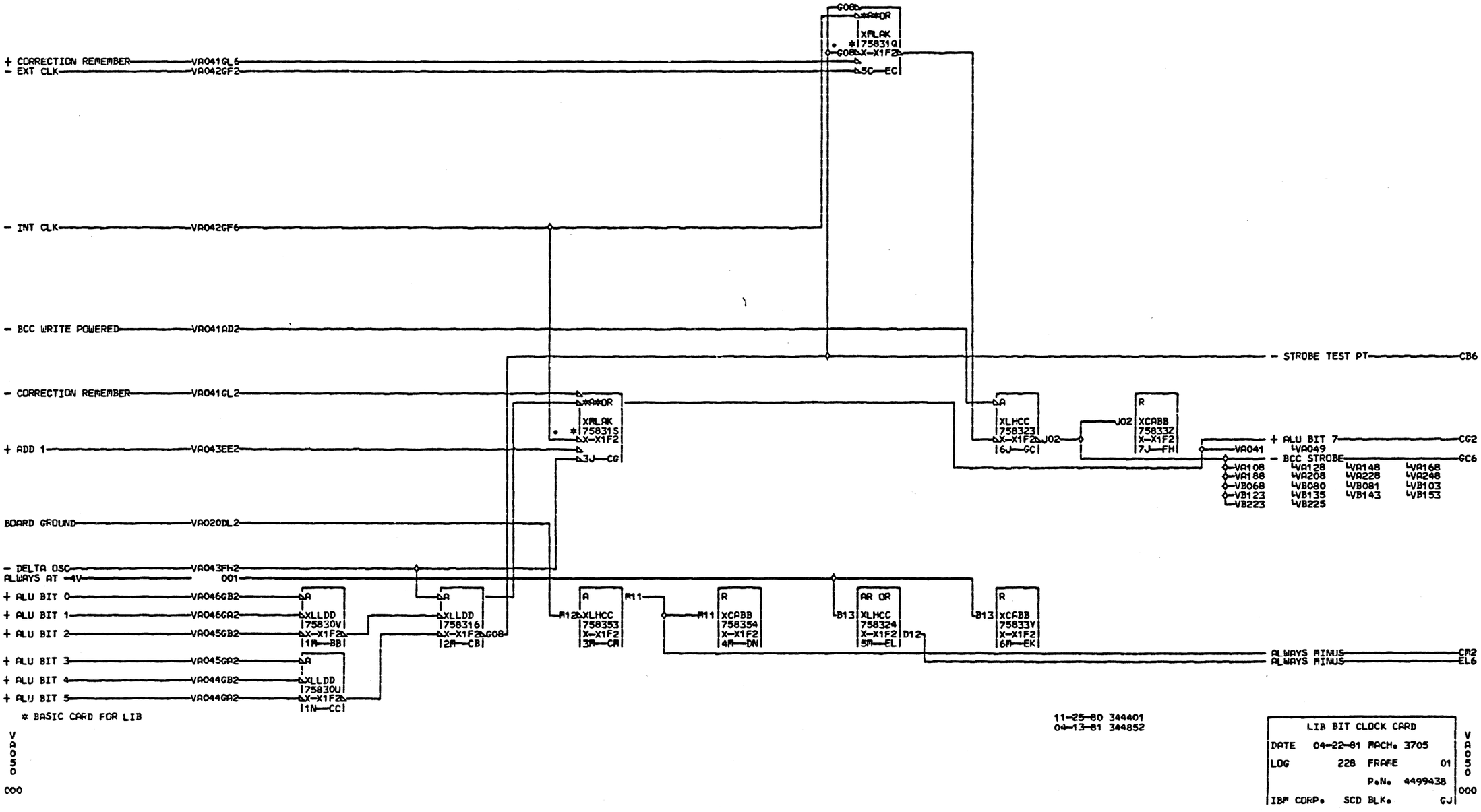
* BASIC CARD FOR LIB

CF2 X-X1D6E04
01X-X1D1E11
FB6 X-X1F1A13
01X-X1F6A04
FM6 X-X1A1D13

VA049 000

11-25-80 344401

LIB BIT CLOCK CARD				VA049 000
DATE	12-02-80	MACH.	3705	
LOG	966	FRAME	01	
		P.N.	8550349	
IBM CORP.	SCD	BLK.	GL	


+ CORRECTION REMEMBER VA041GL6
- EXT CLK VA042GF2
- INT CLK VA042GF6
- BCC WRITE POWERED VA041AD2
- CORRECTION REMEMBER VA041GL2
+ ADD 1 VA043EE2
BOARD GROUND VA020DL2
- DELTA OSC VA043FH2
ALWAYS AT -4V 001
+ ALU BIT 0 VA046GB2
+ ALU BIT 1 VA046GA2
+ ALU BIT 2 VA045GB2
+ ALU BIT 3 VA045GA2
+ ALU BIT 4 VA044GB2
+ ALU BIT 5 VA044GA2
* BASIC CARD FOR LIB
- STROBE TEST PT CB6
+ ALU BIT 7 CG2
- BCC STROBE GC6
ALWAYS MINUS CM2
ALWAYS MINUS EL6
XMLAK 758319 X-X1F2
XLHCC 758323 X-X1F2
XCABB 758332 X-X1F2
XLLDD 758830V X-X1F2
XLLDD 758316 X-X1F2
XLHCC 758353 X-X1F2
XCABB 758354 X-X1F2
XLHCC 758324 X-X1F2
XCABB 758333Y X-X1F2
XMLAK 758315 X-X1F2
XLLDD 758830U X-X1F2
11-25-80 344401
04-13-81 344852
LIB BIT CLOCK CARD
DATE 04-22-81 MACH. 3705
LOG 228 FRAME 01
P.N. 4499438
IBM CORP. SCD BLK. GJ
VA050
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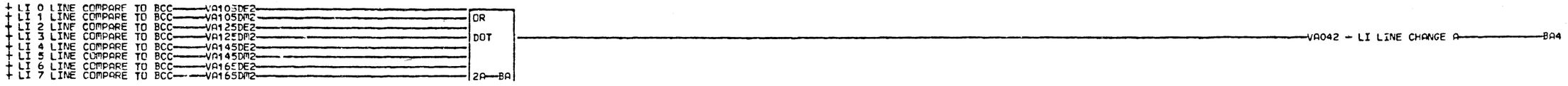

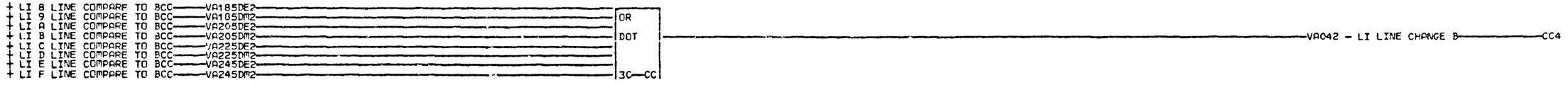

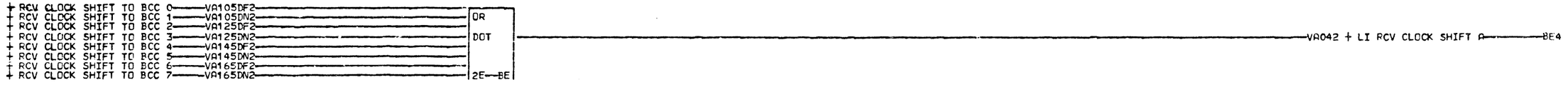

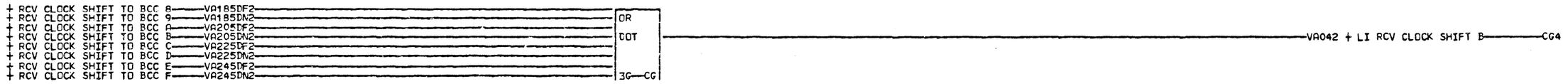

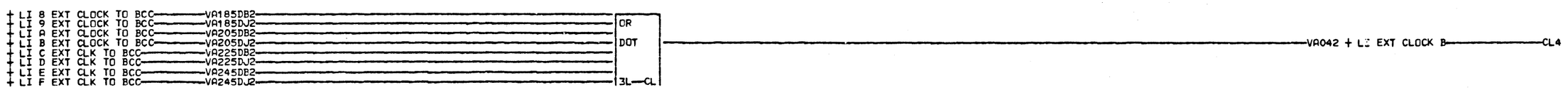

* BASIC CARD FOR LIB

VA060

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11-25-80 344401

LIB BIT CLOCK CARD

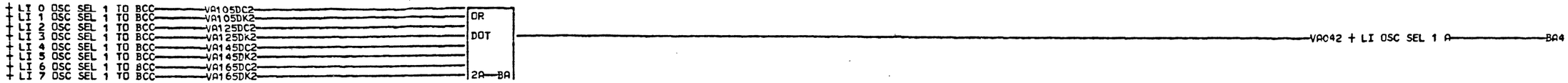
DATE 12-02-80 MACH. 3705

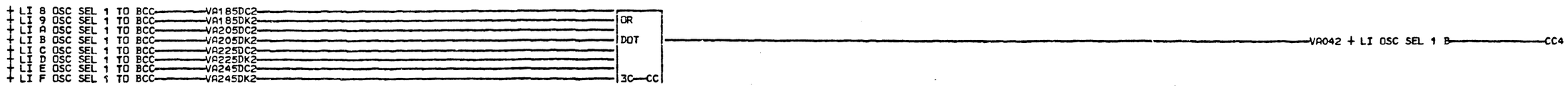
LOG 965 FRAME 01

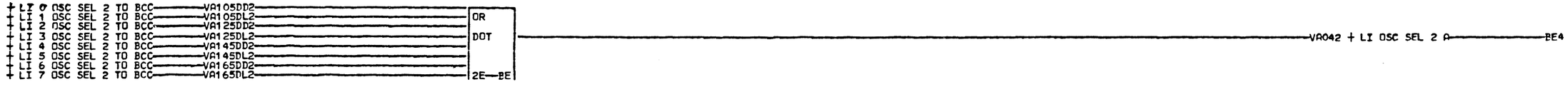
P.N. 4499262

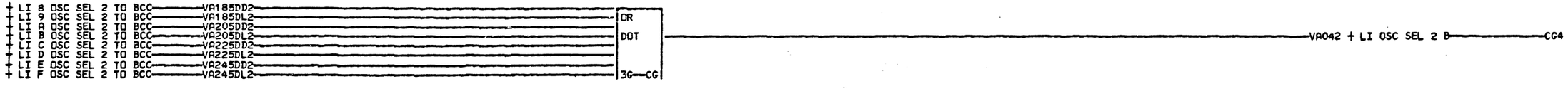
IBM CORP. SCD BLK. CM

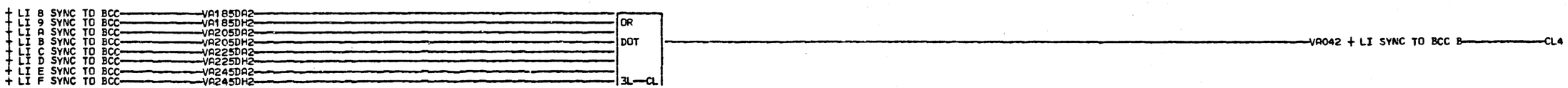
VA060 000











* BASIC CARD FOR LIB

V
A
0
6
1

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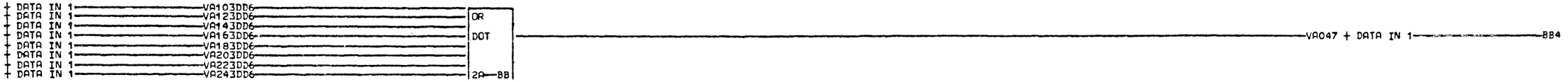
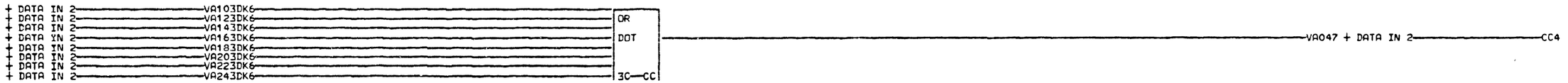
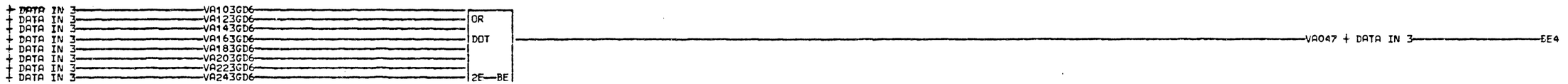
11-25-80 344401

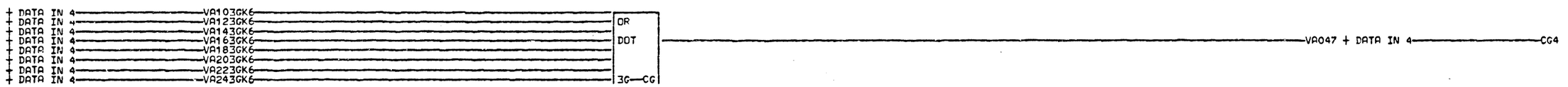
LIB BIT CLOCK CARD					
DATE	12-02-80	MACH.	3705		
LOG	979	FRAME		01	
		P.N.	4499451		
IBM CORP.	SCD BLK.			CR	

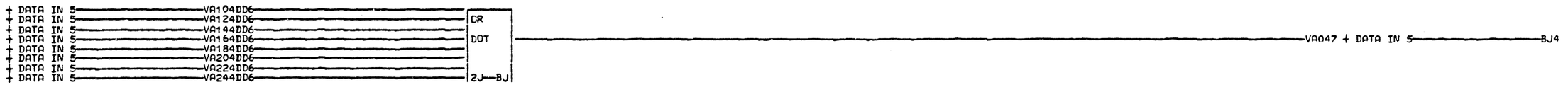
V A 0 6 1 000











* BASIC CARD FOR LIB

V A 0 6 2

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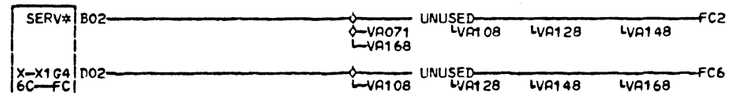
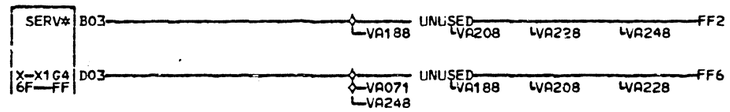
11-25-80 344401

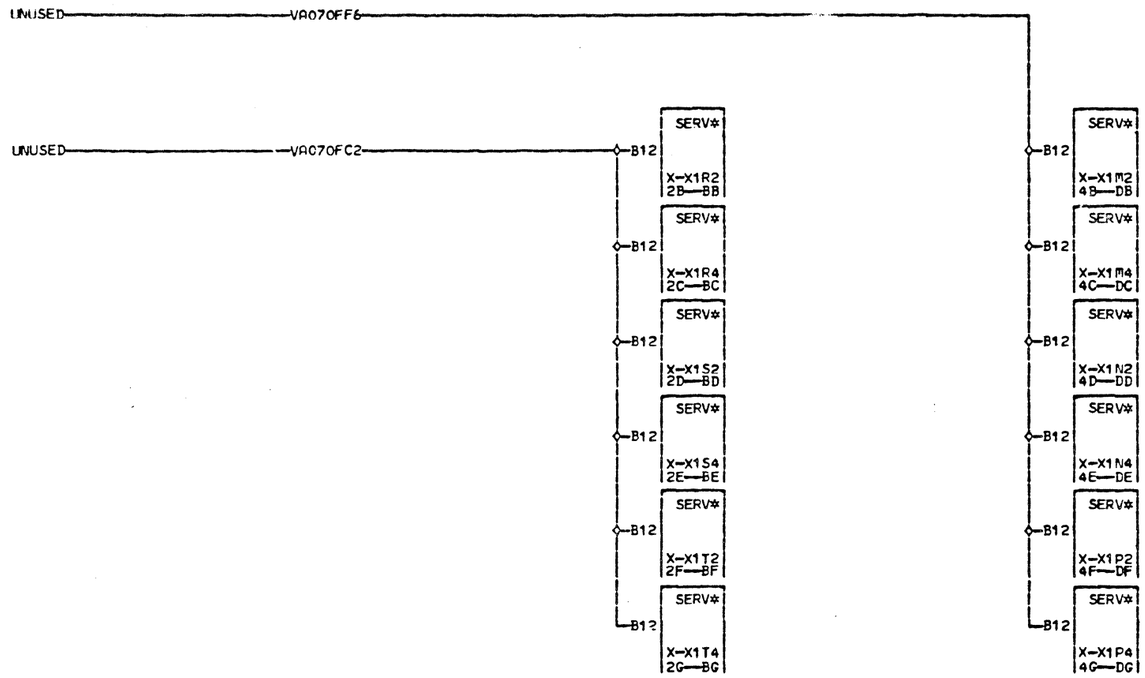
LIB BIT CLOCK CARD					
DATE	12-02-80	MACH.	3705		V A 0 6 2
LOG	965	FRAME		01	
		P.N.	4499264		
IBM CORP.	SCD BLK.			DN	000





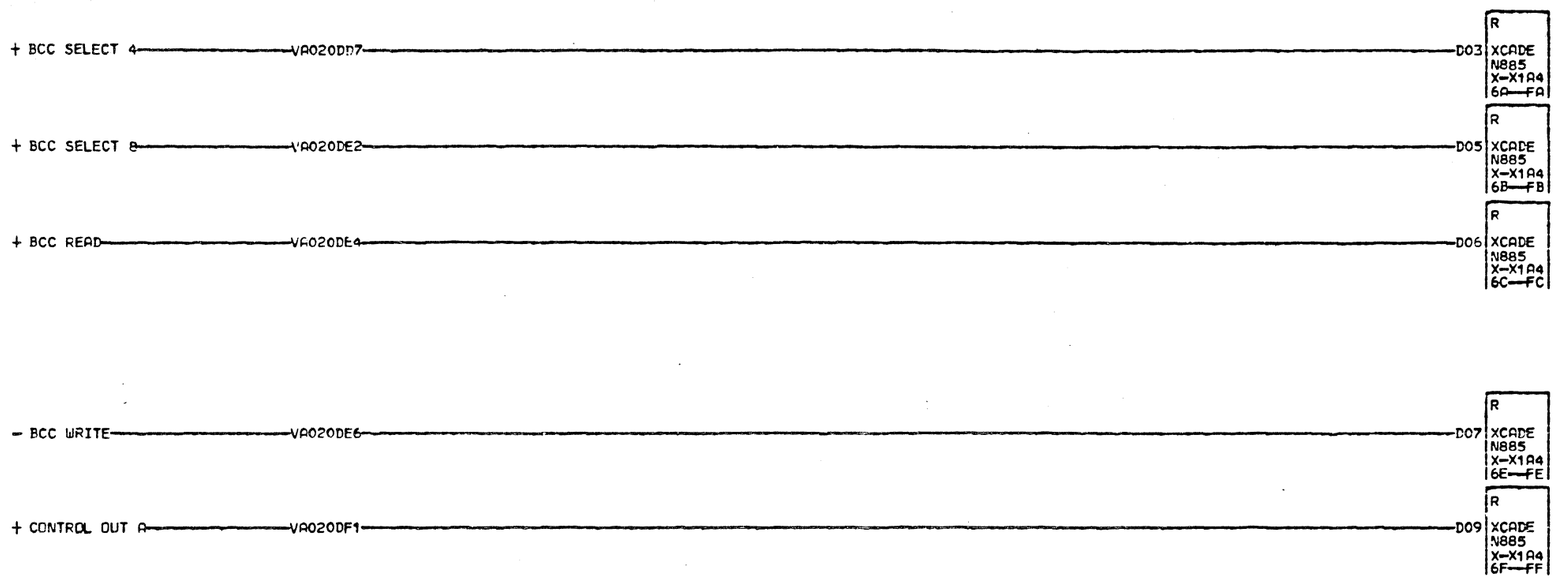
11-25-80 344401

DATE	12-02-80	MACH. 3705	VA070
LOG	965	FRAME 01	
		P.N. 4499265	000
IBM CORP.	SCD BLK.	FG	



11-25-80 344401

SERV WIRING				
DATE	12-02-80	MACH.	3705	
LOC	965	FRAME	01	
		P.N.	4499266	
IBM CORP.	SCD	BLK.	DK	



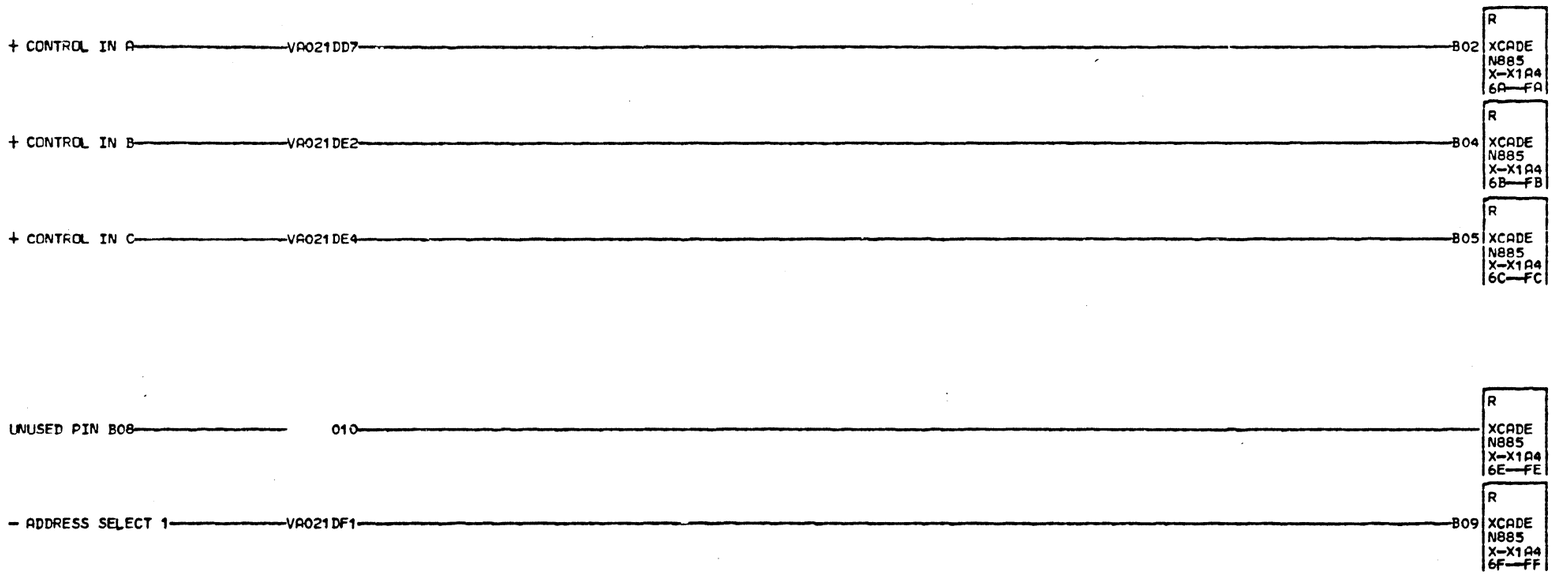
* NOTE.
* CARD PN 5862885 IS PLUGGED
* IN A4 OF THE LAST LIB
* BOARD.

VA081

000

11-25-80 344401

TERMINATOR CARD				
DATE	12-02-80	MACH. 3705		VA081
LOG	965	FRAME	01	000
		P.N.	4499267	
IBM CORP.	SCD BLK.		FN	



* NOTE.
* CARD PN 5862885 IS PLUGGED
* IN A4 OF THE LAST LIB
* BOARD.

VA082

000

11-25-80 344401

TERMINATOR CARD

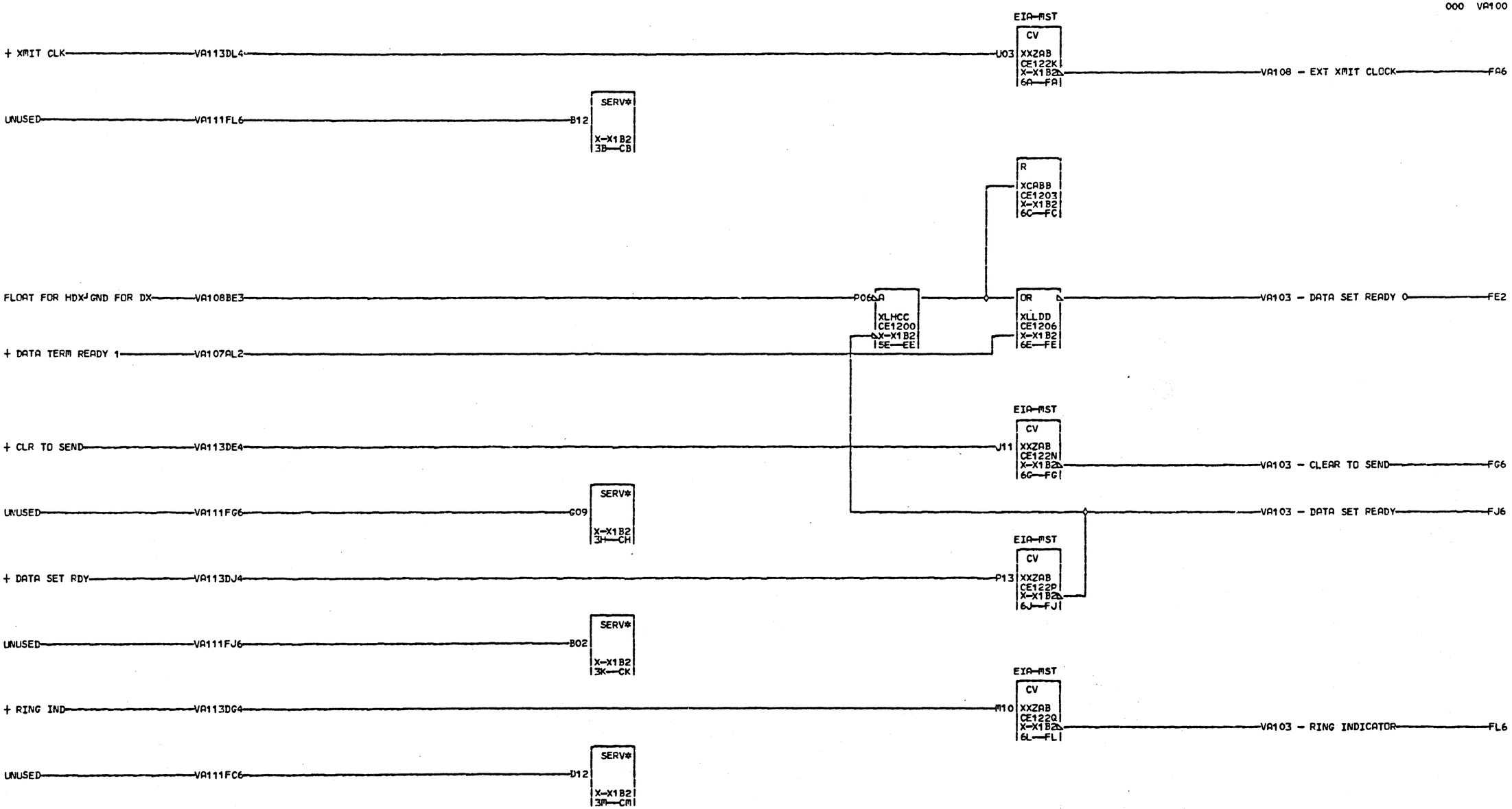
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499268

IBM CORP. SCD BLK. FN

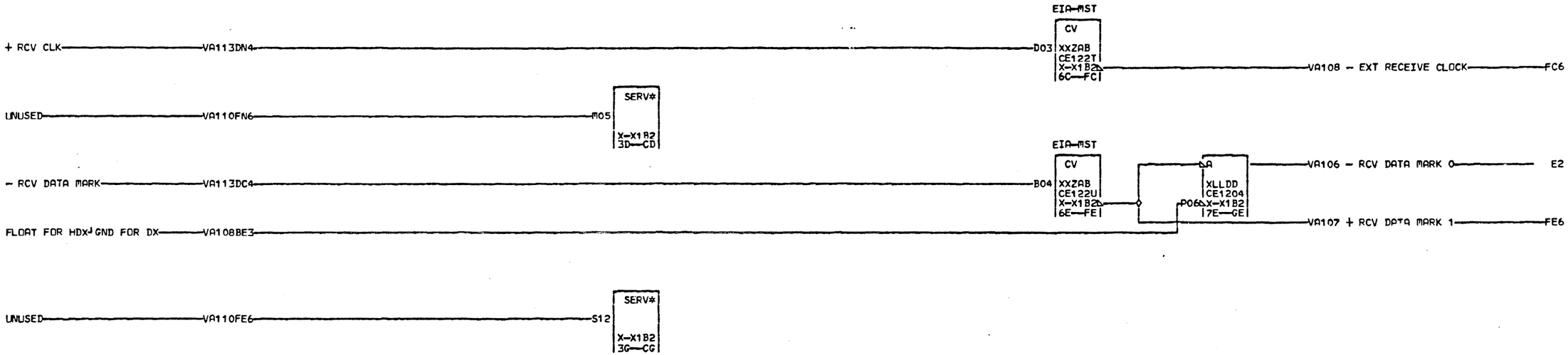
VA082 000

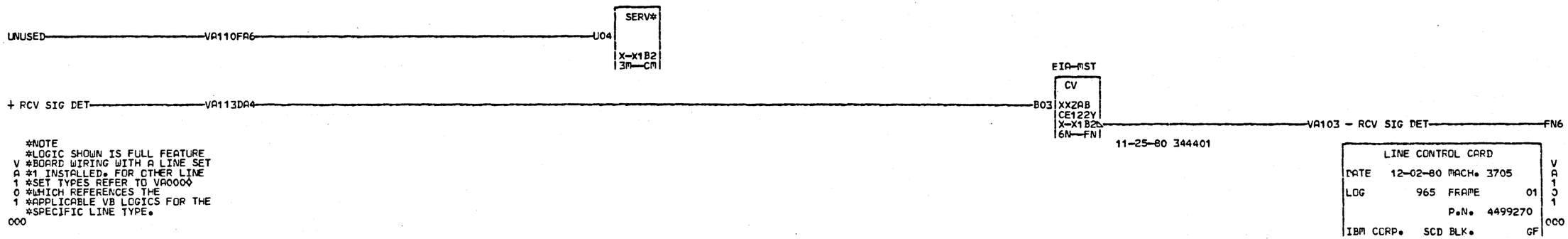


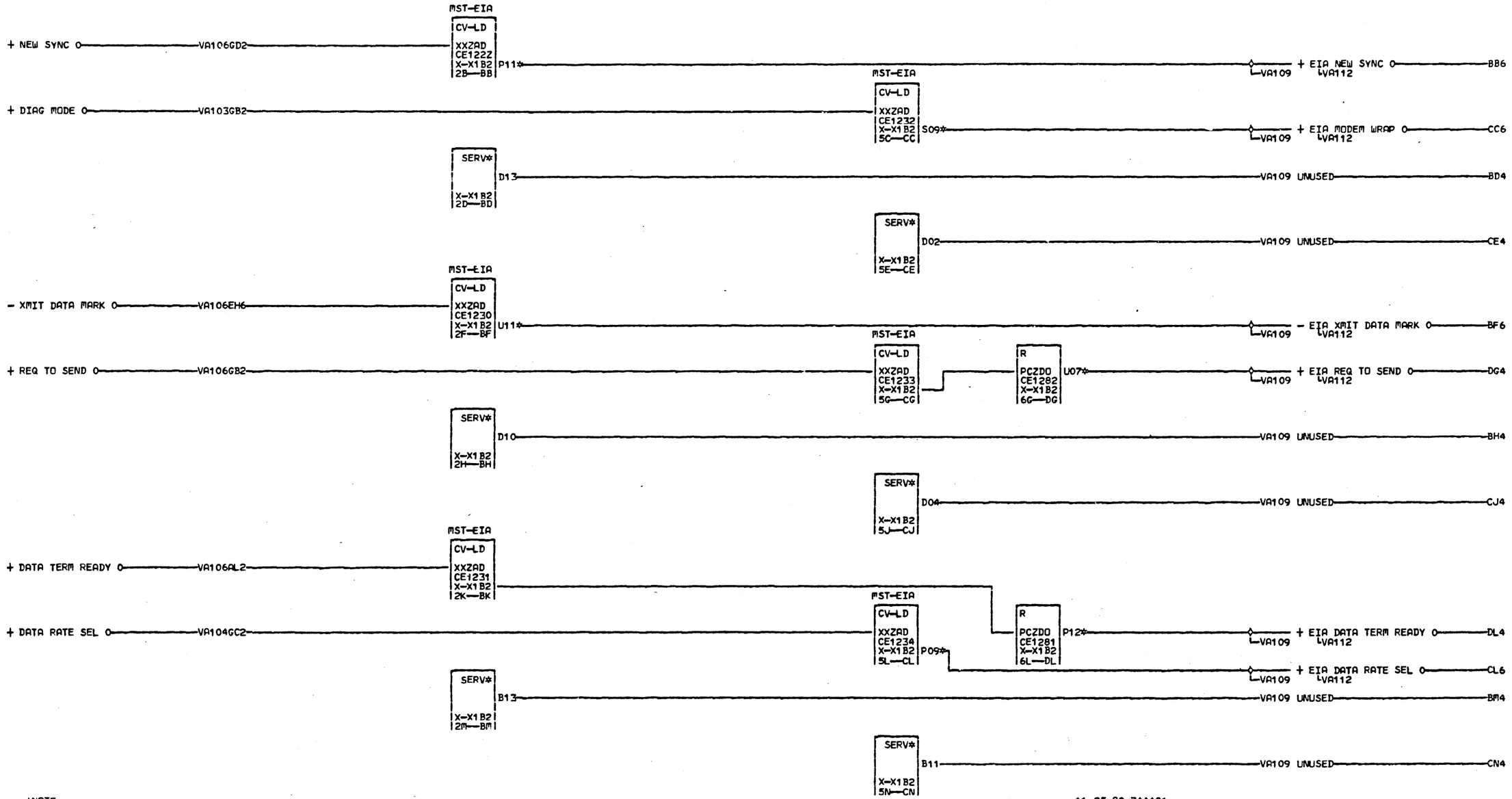
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		V A 1 C 0
LOG	965	FRAME	01	
		P.N.	4499269	000
IBM CORP.	SCD	BLK.	FP	


+ RCV CLK
VA113DN4
D03
EIA-MST
CV
XXZAB
CE122T
X-X1B2
6C-FC
VA108 - EXT RECEIVE CLOCK
FC6
UNUSED
VA110FN6
M05
SERV*
X-X1B2
3D-CD
- RCV DATA MARK
VA113DC4
B04
EIA-MST
CV
XXZAB
CE122U
X-X1B2
6E-FE
A
XLLDD
CE1204
X-X1B2
7E-GE
P06
VA106 - RCV DATA MARK 0
E2
FLOAT FOR HDX/GND FOR DX
VA108BE3
VA107 + RCV DATA MARK 1
FE6
UNUSED
VA110FE6
S12
SERV*
X-X1B2
3G-CG


UNUSED
VA110FA6
U04
SERV*
X-X1B2
3M-CM
+ RCV SIG DET
VA113DA4
B03
EIA-MST
CV
XXZAB
CE122Y
X-X1B2
6N-FN
VA103 - RCV SIG DET
FN6
11-25-80 344401
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000
LINE CONTROL CARD
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499270
IBM CORP. SCD BLK. GF
VA1000
VA1001
000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

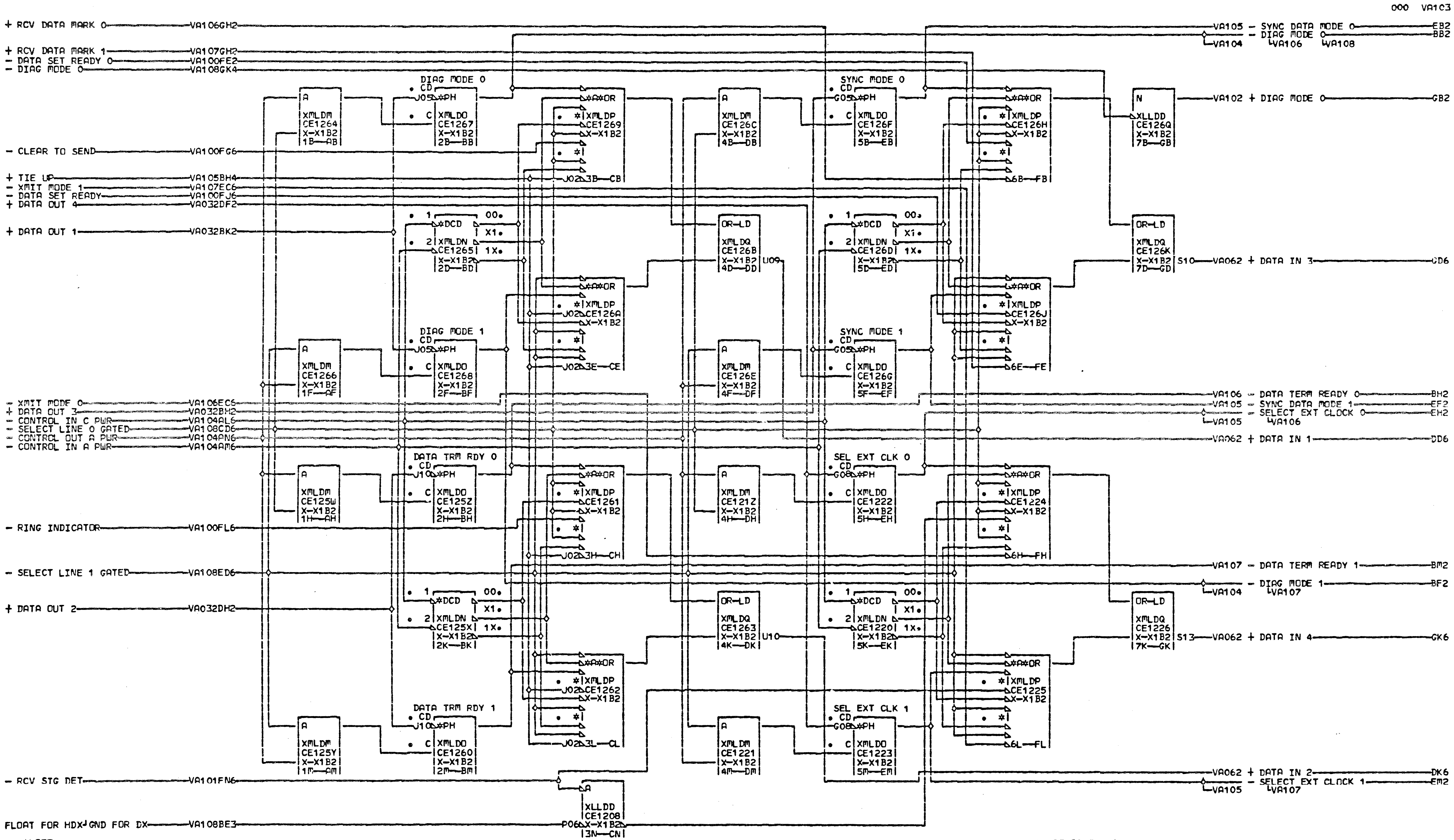
BB6	X-X1U2D10
BF6	X-X1U2B02
CC6	X-X1U2D11
CL6	X-X1U2D06
DG4	X-X1U2B06
DL4	X-X1U2D03

000

11-25-80 344401

LINE CONTROL CARD			
DATE	12-02-80	MACH. 3705	
LOG	965	FRAME	01
		P.N.	4499271
IBM CORP.	SCD BLK.		GN

VA102 000


+ RCV DATA MARK 0 VA106GH2
+ RCV DATA MARK 1 VA107GH2
- DATA SET READY 0 VA100FE2
- DIAG MODE 0 VA108GK4
- CLEAR TO SEND VA100FG6
+ TIE UP VA105BH4
- XMIT MODE 1 VA107EC6
- DATA SET READY VA100FJ6
+ DATA OUT 4 VA032DF2
+ DATA OUT 1 VA032BK2
- XMIT MODE 0 VA106EC6
+ DATA OUT 3 VA032BH2
- CONTROL IN C PWR VA104AL6
- SELECT LINE 0 GATED VA108CD6
- CONTROL OUT A PWR VA104AN6
- CONTROL IN A PWR VA104AM6
- RING INDICATOR VA100FL6
- SELECT LINE 1 GATED VA108ED6
+ DATA OUT 2 VA032DH2
- RCV STG DET VA101FN6
FLOAT FOR HDX GND FOR DX VA108BE3
DIAG MODE 0
DIAG MODE 1
DATA TRM RDY 0
DATA TRM RDY 1
SYNC MODE 0
SYNC MODE 1
SEL EXT CLK 0
SEL EXT CLK 1
VA105 - SYNC DATA MODE 0 EB2
- DIAG MODE 0 BB2
VA104 VA106 VA108
VA102 + DIAG MODE 0 GB2
S10 VA062 + DATA IN 3 GD6
VA106 - DATA TERM READY 0 BH2
VA105 - SYNC DATA MODE 1 EF2
- SELECT EXT CLOCK 0 EH2
VA105 VA106
VA062 + DATA IN 1 DD6
VA107 - DATA TERM READY 1 BM2
- DIAG MODE 1 BF2
VA104 VA107
S13 VA062 + DATA IN 4 GK6
VA062 + DATA IN 2 DK6
- SELECT EXT CLOCK 1 EM2
VA105 VA107
U09
U10

*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA000
0 *WHICH REFERENCES THE
3 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE CONTROL CARD			
DATE	12-02-80	MACH. 3705	V A 1 0 3
LOG	965	FRAME 01	
		P.N. 4499272	000
IBM CORP.	SCD BLK.	GN	

000 VA104

- REQ TO SEND 0 — VA106DB6
- DIAG MODE 0 — VA103BB2
- RCV DATA BUFFER MARK 0 — VA106EL2
- NEW SYNC 0 — VA106EE6
- SELECT LINE 0 GATED — VA108CD6
+ DATA OUT 5 — VA032BF2
- RCV DATA BUFFER MARK 1 — VA107EL2
+ DATA OUT 6 — VA032BD2
- SELECT LINE 1 GATED — VA108ED6
- DIAG MODE 1 — VA103BF2
- REQ TO SEND 1 — VA107DB6
- NEW SYNC 1 — VA107EE6
+ DATA OUT 7 — VA048DJ2
- BIT SERVICE 1 — VA107FF0
- SEND DATA BUFFER 1 — VA107DD6
- SEND DATA BUFFER 0 — VA106DD6
- BIT SERVICE 0 — VA106FF0
- CNTL IN A — VA032DN2 — M11
- CNTL IN B — VA031BA2 — M08
- CNTL IN C — VA031DA2 — M12
- CNTL OUT A — VA032BA2 — S04

DATA RT SEL 0 — A XMLDM CE126W X-X1B2 1B—AB; CD G04 *PH; C XMLDO CE126Z X-X1B2 2B—BB; *A*OR; * XMLDP CE1271 X-X1B2 M04 3B—CB; * ; 1 00 *DCD X1 ; 2 XMLDN CE126X 1X X-X1B2 2D—BD

DATA RT SEL 1 — A XMLDM CE126Y X-X1B2 1F—AF; CD G04 *PH; C XMLDO CE1270 X-X1B2 2F—BF; *A*OR; * XMLDP CE1272 X-X1B2 D07 3E—CE; *

A XMLDM CE121P X-X1B2 4B—DB; OR-LD XMLDQ CE1273 X-X1B2 4D—DD U13

A XMLDM CE121T X-X1B2 4F—DF

A XMLDM CE1227 X-X1B2 4H—DH

A XMLDM CE1229 X-X1B2 4M—DM

OSC SEL 1 LN 0 — CD G02 *PH; C XMLDO CE121U X-X1B2 5B—EB; *A*OR; * XMLDP CE121W X-X1B2 6B—FB; *

OSC SEL 1 LN 1 — CD G02 *PH; C XMLDO CE121V X-X1B2 5F—EF; *A*OR; * XMLDP CE121X X-X1B2 6E—FE; *

OSC SEL 2 LN 0 — CD J13 *PH; C XMLDO CE122A X-X1B2 5H—EH; *A*OR; * XMLDP CE122E X-X1B2 J04 6H—FH; * ; 1 00 *DCD X1 ; 2 XMLDN CE1228 1X X-X1B2 5K—EK

OSC SEL 2 LN 1 — CD J13 *PH; C XMLDO CE122B X-X1B2 5M—EM; *A*OR; * XMLDP CE122F X-X1B2 M07 6L—FL; *

N XLLDD CE1276 X-X1B2 7C—GC — VA102 + DATA RATE SEL 0 — GC2

OR-LD XMLDQ CE121Y X-X1B2 7D—GD U12 — VA031 + DATA IN 6 — GD6

OR-LD XMLDQ CE122G X-X1B2 7K—GK S11 — VA031 + DATA IN 7 — GK6

AR XLAHH CE120M X-X1B2 1K—AM

AR XLAHH CE1285 X-X1B2 1L—AK

AR XLAHH CE120Q X-X1B2 1M—AL

AR XLAHH CE1217 X-X1B2 1N—AN

- OSC SEL 1 LINE 0 — VA105 VA106 — EB2
- OSC SEL 2 LINE 0 — VA105 VA106 — EH2
- CONTROL IN A PWR — VA103 VA108 — AM6
- CONTROL IN C PWR — VA103 VA108 — AL6
- OSC SEL 1 LINE 1 — VA105 VA107 — EF2
VA062 + DATA IN 5 — DD6
- CONTROL IN B PWR — VA108 — AK6
- CONTROL OUT A PWR — VA103 — AN6
- OSC SEL 2 LINE 1 — VA105 VA107 — EM2

*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

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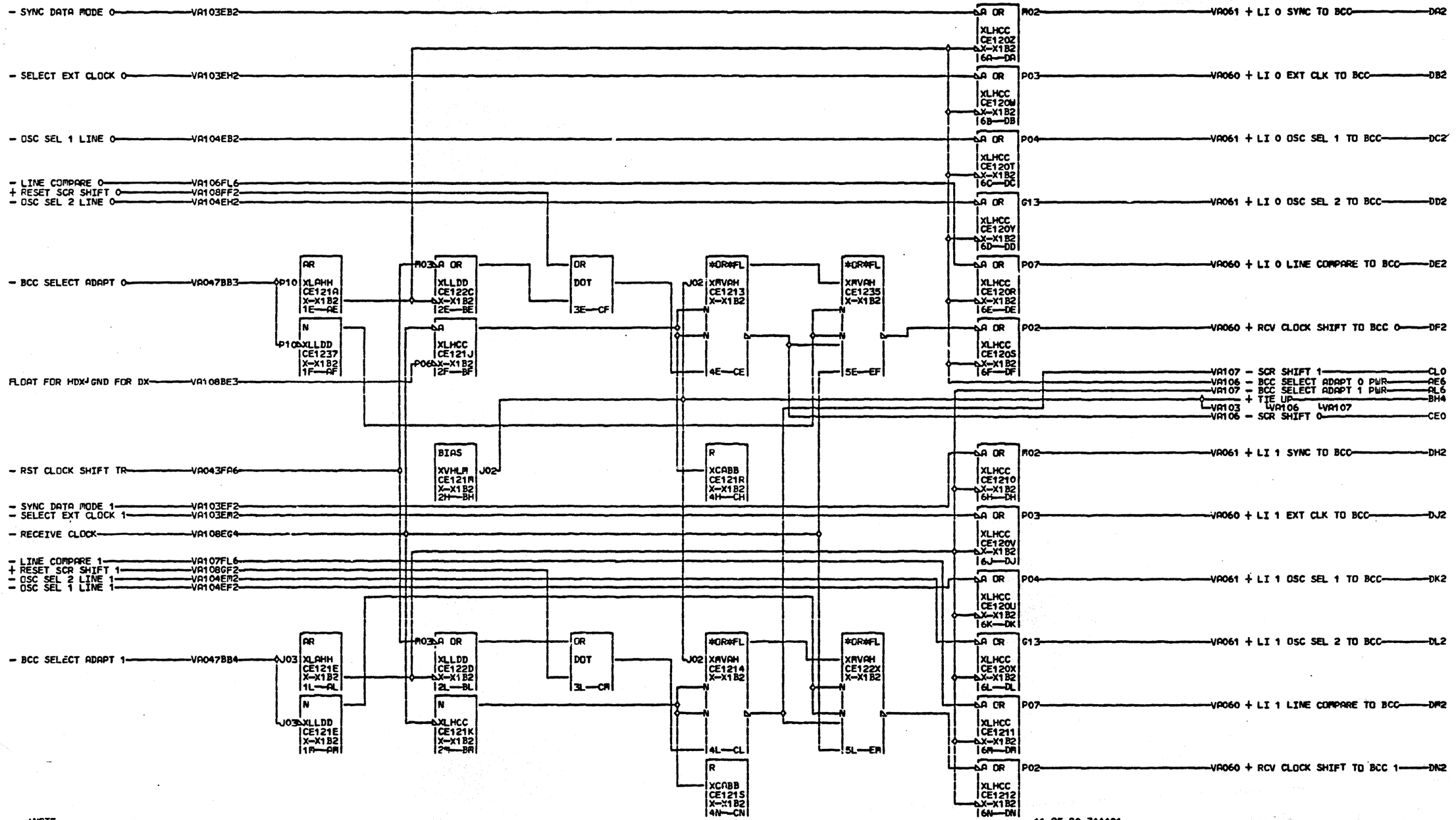
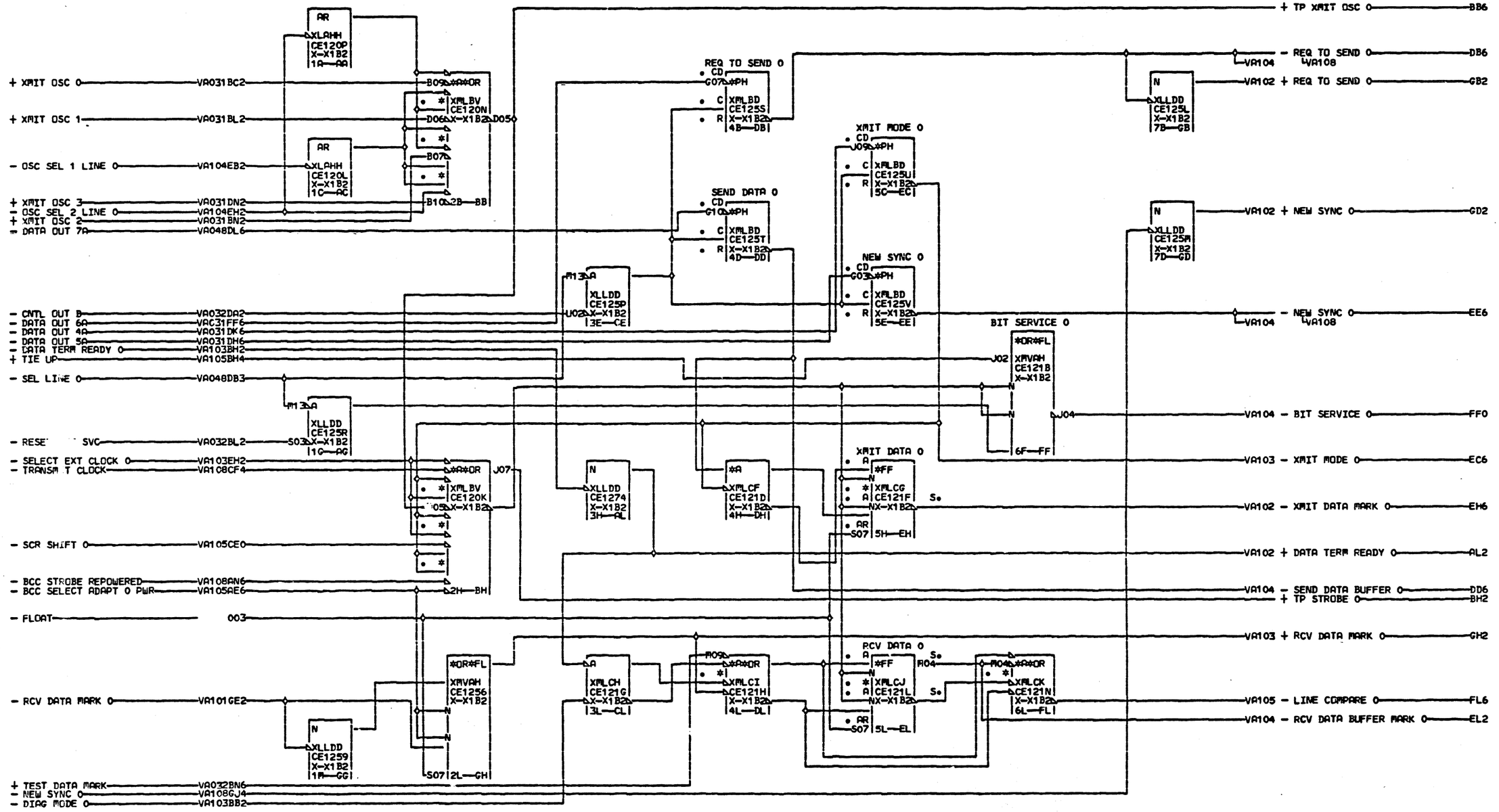
11-25-80 344401

LINE CONTROL CARD				V A 1 0 4
DATE	12-02-80	MACH. 3705		
LOG	965	FRAME	01	
		P.N.	4499273	
IBM CORP.	SCD BLK.		GL	000


- SYNC DATA MODE 0 VA103EB2
- SELECT EXT CLOCK 0 VA103EH2
- OSC SEL 1 LINE 0 VA104EB2
- LINE COMPARE 0 VA106FL6
+ RESET SCR SHIFT 0 VA108FF2
- OSC SEL 2 LINE 0 VA104EH2
- BCC SELECT ADAPT 0 VA047BB3
FLOAT FOR HDX/GND FOR DX VA108BE3
- RST CLOCK SHIFT TR VA043FA6
- SYNC DATA MODE 1 VA103EF2
- SELECT EXT CLOCK 1 VA103EM2
- RECEIVE CLOCK VA108EG4
- LINE COMPARE 1 VA107FL6
+ RESET SCR SHIFT 1 VA108GF2
- OSC SEL 2 LINE 1 VA104EM2
- OSC SEL 1 LINE 1 VA104EF2
- BCC SELECT ADAPT 1 VA047BB4
A OR XLHCC CE120Z X-X1B2 6A—DA
A OR XLHCC CE120W X-X1B2 6B—DB
A OR XLHCC CE120T X-X1B2 6C—DC
A OR XLHCC CE120Y X-X1B2 6D—DD
A OR XLHCC CE120R X-X1B2 6E—DE
A OR XLHCC CE120S X-X1B2 6F—DF
A OR XLHCC CE1210 X-X1B2 6H—DH
A OR XLHCC CE120V X-X1B2 6J—DJ
A OR XLHCC CE120U X-X1B2 6K—DK
A OR XLHCC CE120X X-X1B2 6L—DL
A OR XLHCC CE1211 X-X1B2 6M—DM
A OR XLHCC CE1212 X-X1B2 6N—DN
P02 VA060 + RCV CLOCK SHIFT TO BCC 0 DF2
P03 VA060 + LI 0 EXT CLK TO BCC DB2
P04 VA061 + LI 0 OSC SEL 1 TO BCC DC2
G13 VA061 + LI 0 OSC SEL 2 TO BCC DD2
P07 VA060 + LI 0 LINE COMPARE TO BCC DE2
M02 VA061 + LI 0 SYNC TO BCC DA2
VA107 - SCR SHIFT 1 CL0
VA106 - BCC SELECT ADAPT 0 PWR AE6
VA107 - BCC SELECT ADAPT 1 PWR AL6
+ TIE UP BH4
VA103 VA106 VA107
VA106 - SCR SHIFT 0 CE0
M02 VA061 + LI 1 SYNC TO BCC DH2
P03 VA060 + LI 1 EXT CLK TO BCC DJ2
P04 VA061 + LI 1 OSC SEL 1 TO BCC DK2
G13 VA061 + LI 1 OSC SEL 2 TO BCC DL2
P07 VA060 + LI 1 LINE COMPARE TO BCC DM2
P02 VA060 + RCV CLOCK SHIFT TO BCC 1 DN2
AR XLAHH CE121A X-X1B2 1E—AE
N XLLDD CE1237 X-X1B2 1F—AF
A OR XLLDD CE122C X-X1B2 2E—BE
A XLHCC CE121J X-X1B2 2F—BF
OR DOT 3E—CF
*OR*FL XAVAH CE1213 X-X1B2 4E—CE
*OR*FL XAVAH CE1235 X-X1B2 5E—EF
BIAS XVHLA CE121M X-X1B2 2H—BH
R XCABB CE121R X-X1B2 4H—CH
AR XLAHH CE121E X-X1B2 1L—AL
N XLLDD CE121E X-X1B2 1M—AM
A OR XLLDD CE122D X-X1B2 2L—BL
N XLHCC CE121K X-X1B2 2M—BM
OR DOT 3L—CM
*OR*FL XAVAH CE1214 X-X1B2 4L—CL
*OR*FL XAVAH CE122X X-X1B2 5L—EM
R XCABB CE121S X-X1B2 4N—CN
J02
J03
P10
P06
M03
#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VAC000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.
000
11-25-80 344401
04-13-81 344852
LINE CONTROL CARD
DATE 04-22-81 MACH. 3705
LOG 237 FRAME 01
P.N. 4499274
IBM CORP. SCD BLK. GL
VA105 000

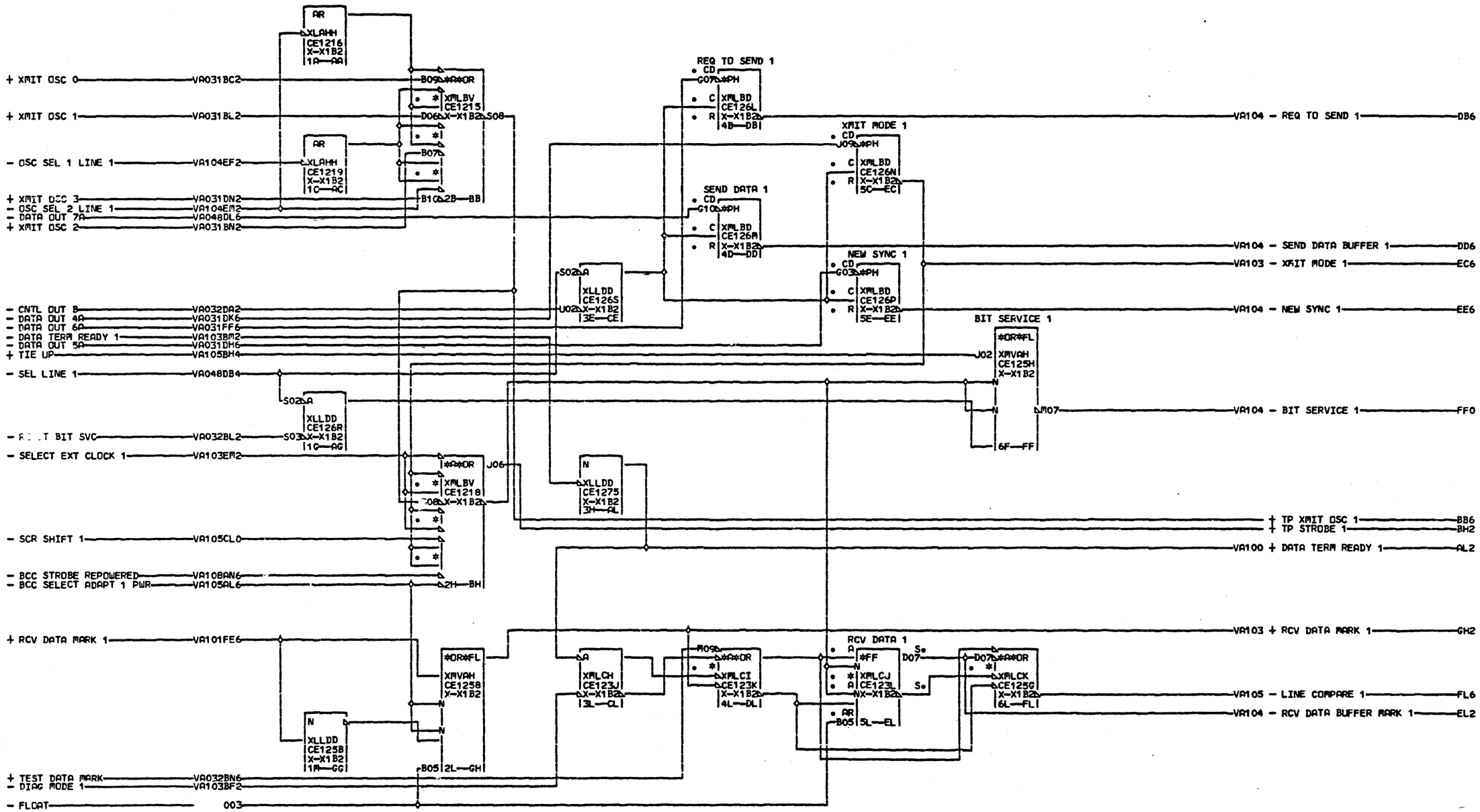


#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	MPCH.	3705	VA106
LOG	237	FRAME	01	
		P.N.	4499275	000
IBM CORP.	SCD	BLK.	GJ	

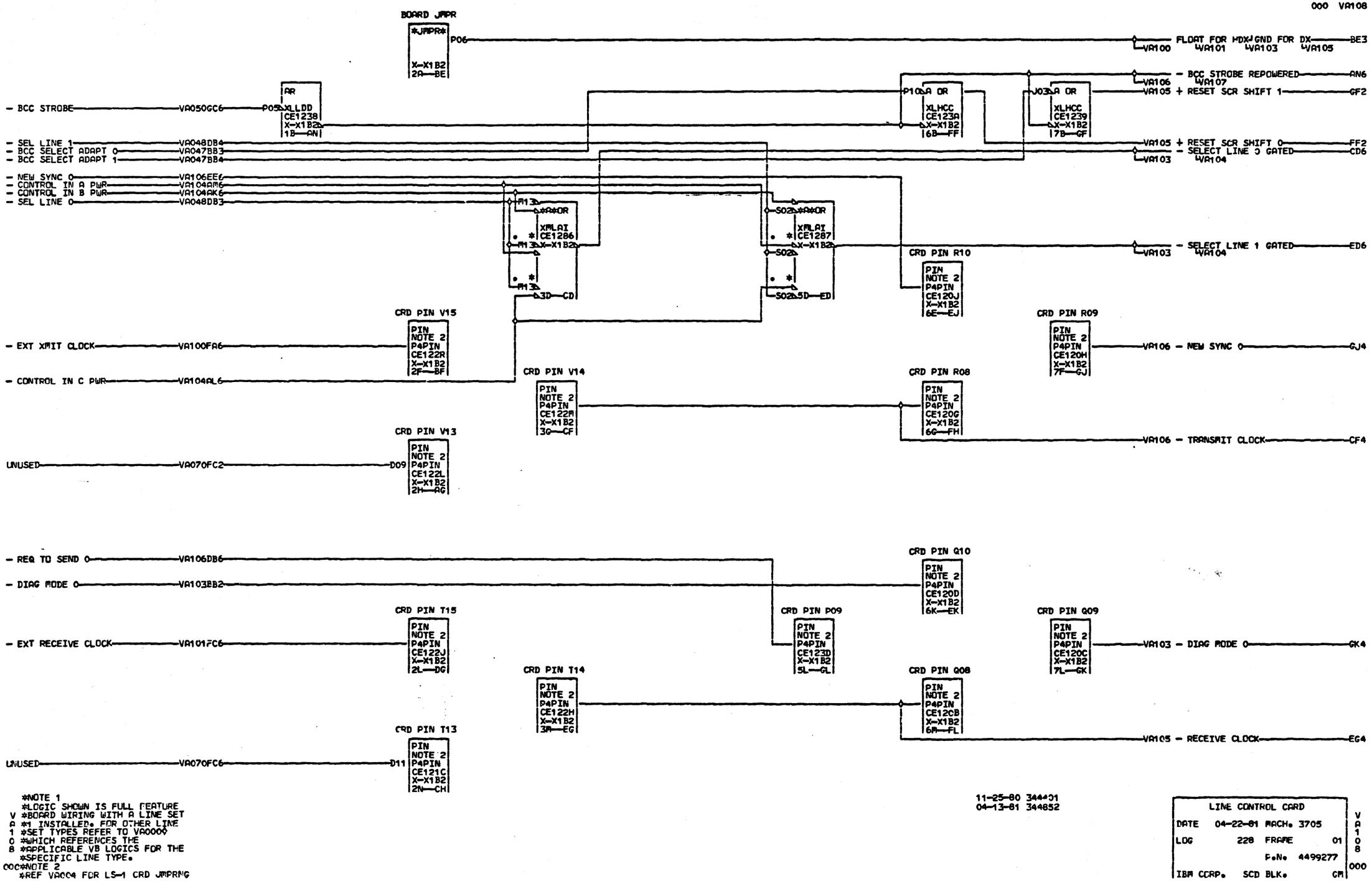


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

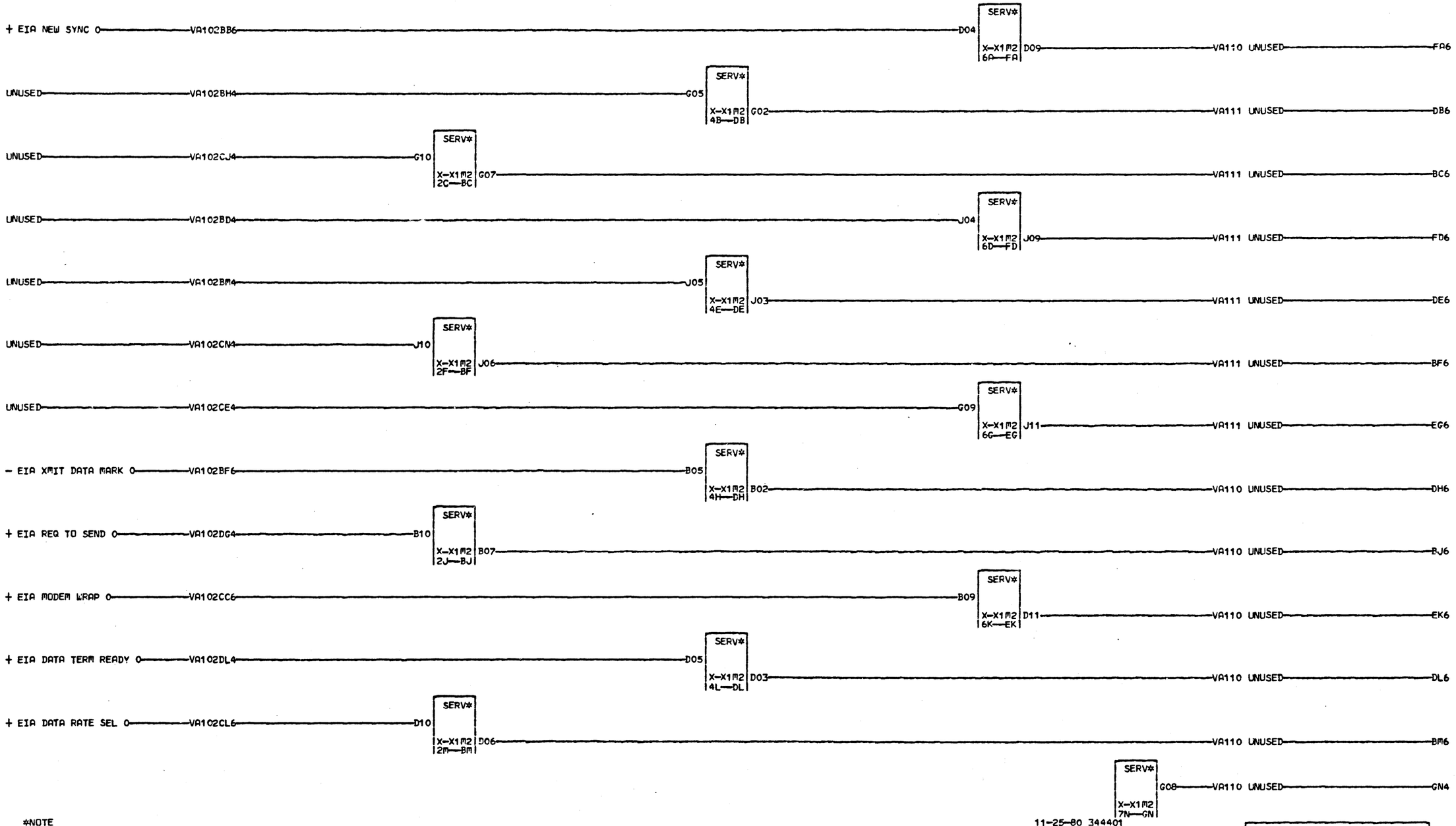
LINE CONTROL CARD				
DATE	04-22-81	MACH. 3705		VA107
LOG	228	FRAME	01	000
		P.N.	4499276	
IBM CORP.	SCD BLK.		GJ	



*NOTE 1
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
*NOTE 2
*REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344431
04-13-81 344852

LINE CONTROL CARD			
DATE 04-22-81	MACH. 3705		VA108
LOG 228	FRAME	01	
	P.No. 4499277		000
IBM CORP. SCD BLK.		CM	



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

11-25-80 344401

SERV WIRING

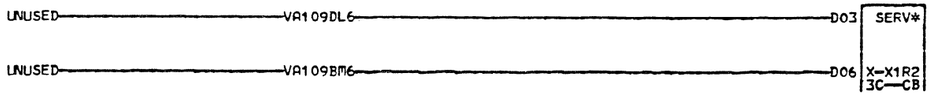
DATE 12-02-80 MACH. 3705

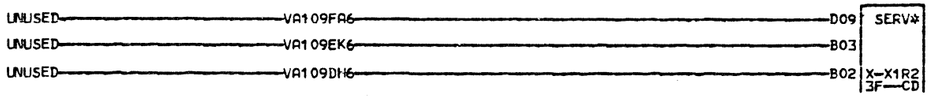
LOG 965 FRAME 01

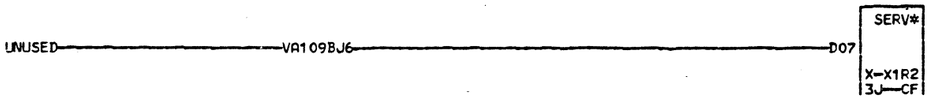
P.N. 4499278

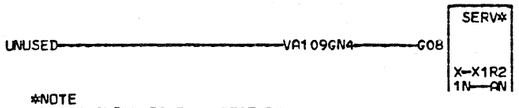
IBM CORP. SCD BLK. GP

VA109 000

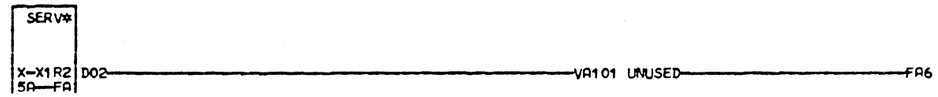


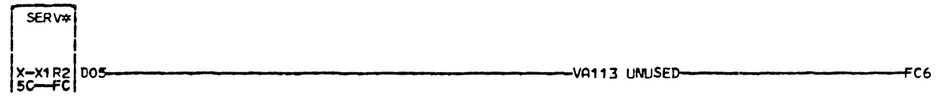


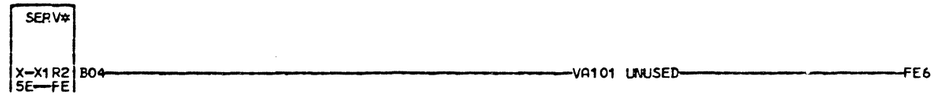


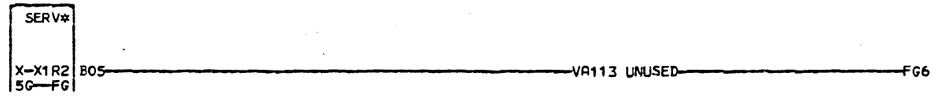


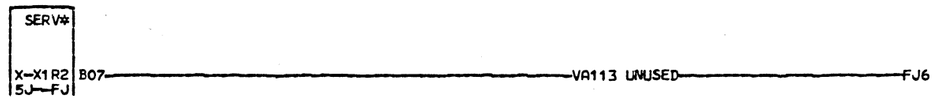

```
   *NOTE
   *LOGIC SHOWN IS FULL FEATURE
 V *BOARD WIRING WITH A LINE SET
 A *1 INSTALLED. FOR OTHER LINE
 1 *SET TYPES REFER TO VA0000
 1 *WHICH REFERENCES THE
 0 *APPLICABLE VB LOGICS FOR THE
   *SPECIFIC LINE TYPE.
000
```

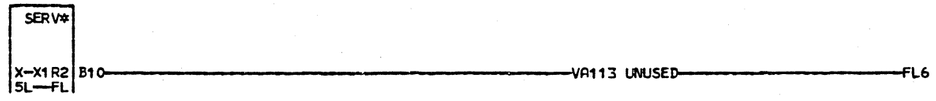


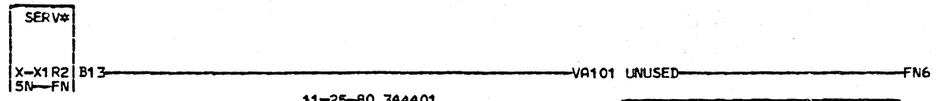






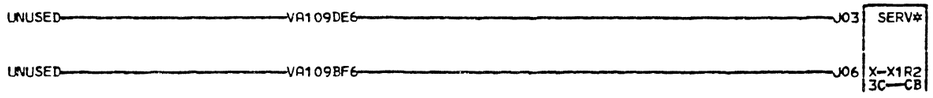


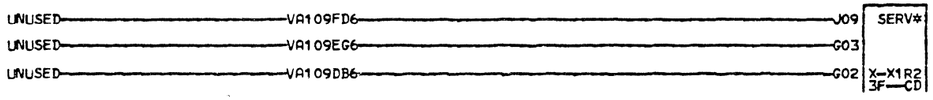


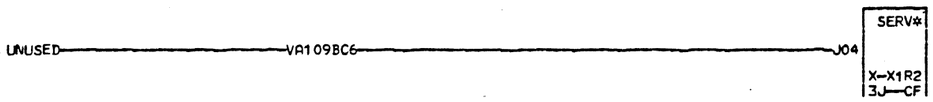


11-25-80 344401

SERV WIRING					V A 1 1 0 000
DATE	12-02-80	MACH.	3705		
LOG	965	FRAME		01	
		P.N.	4499279		
IBM CORP.	SCD BLK.			FP	

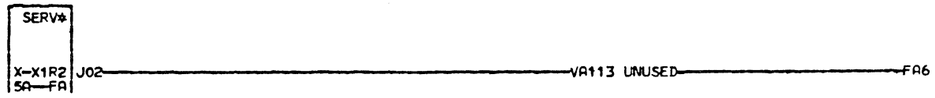


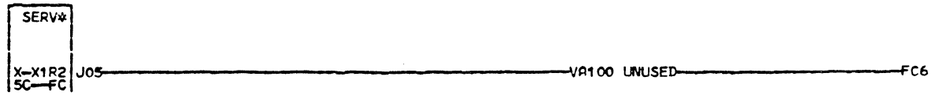


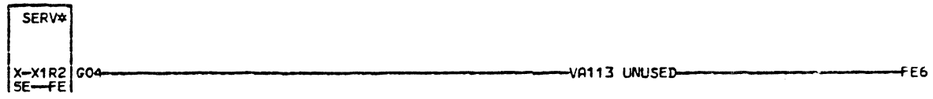


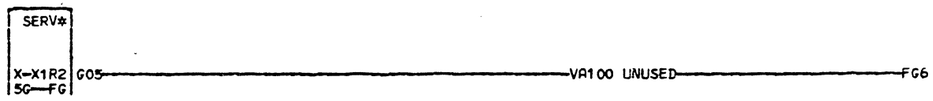
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

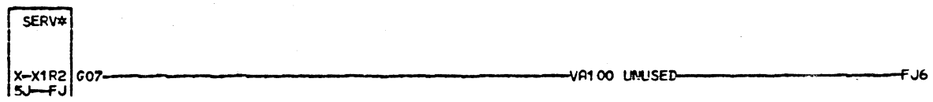
V A 1 1 1 000

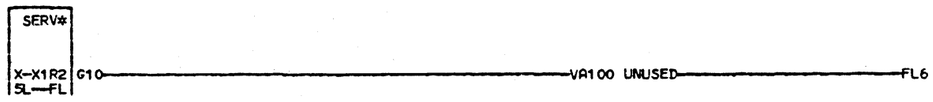


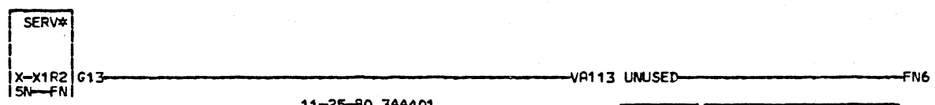












11-25-80 344401

SERV WIRING

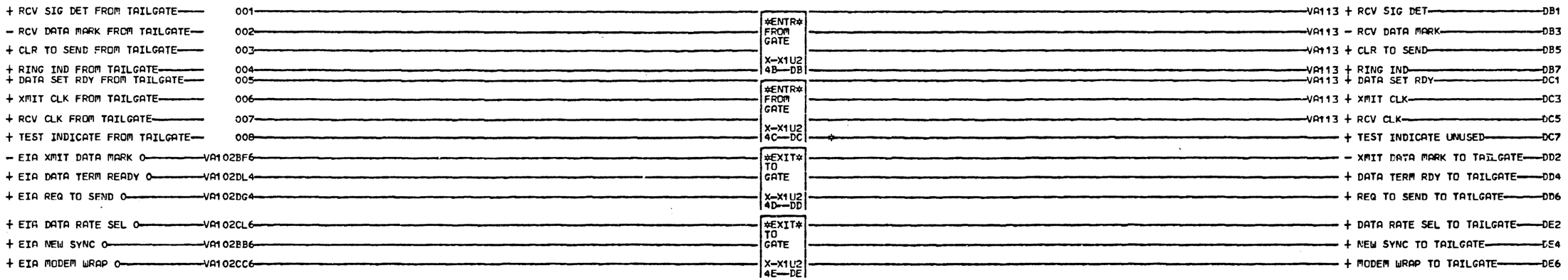
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499280

IBM CORP. SCD BLK. FP

V A 1 1 1 000



*NOTE
*LOGIC SHOWN IS FULL FEATURE DC7 X-X1U2D13
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

VA112 000

11-25-80 344401

LINE INTERFACE CABLE

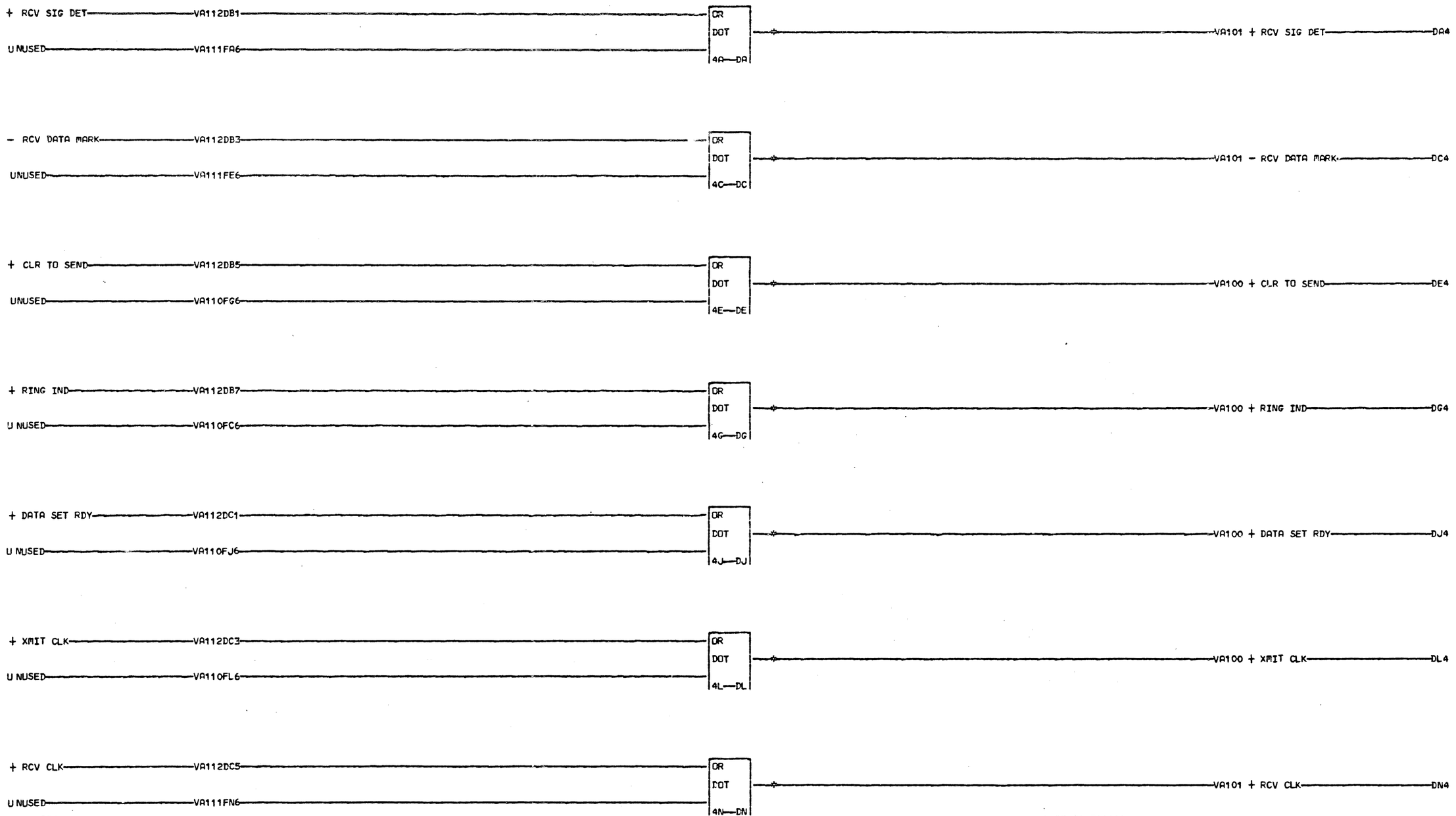
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499281

IBM CORP. SCD BLK. DF

VA112 000



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

DA4	X-X1U2D02
DC4	X-X1U2B04
DE4	X-X1U2B05
DG4	X-X1U2D05
DJ4	X-X1U2B08
DL4	X-X1U2B10
DN4	X-X1U2B13

V A 1 1 3 0 00

11-25-80 344401

DOTTED REC LINE INTERFACE

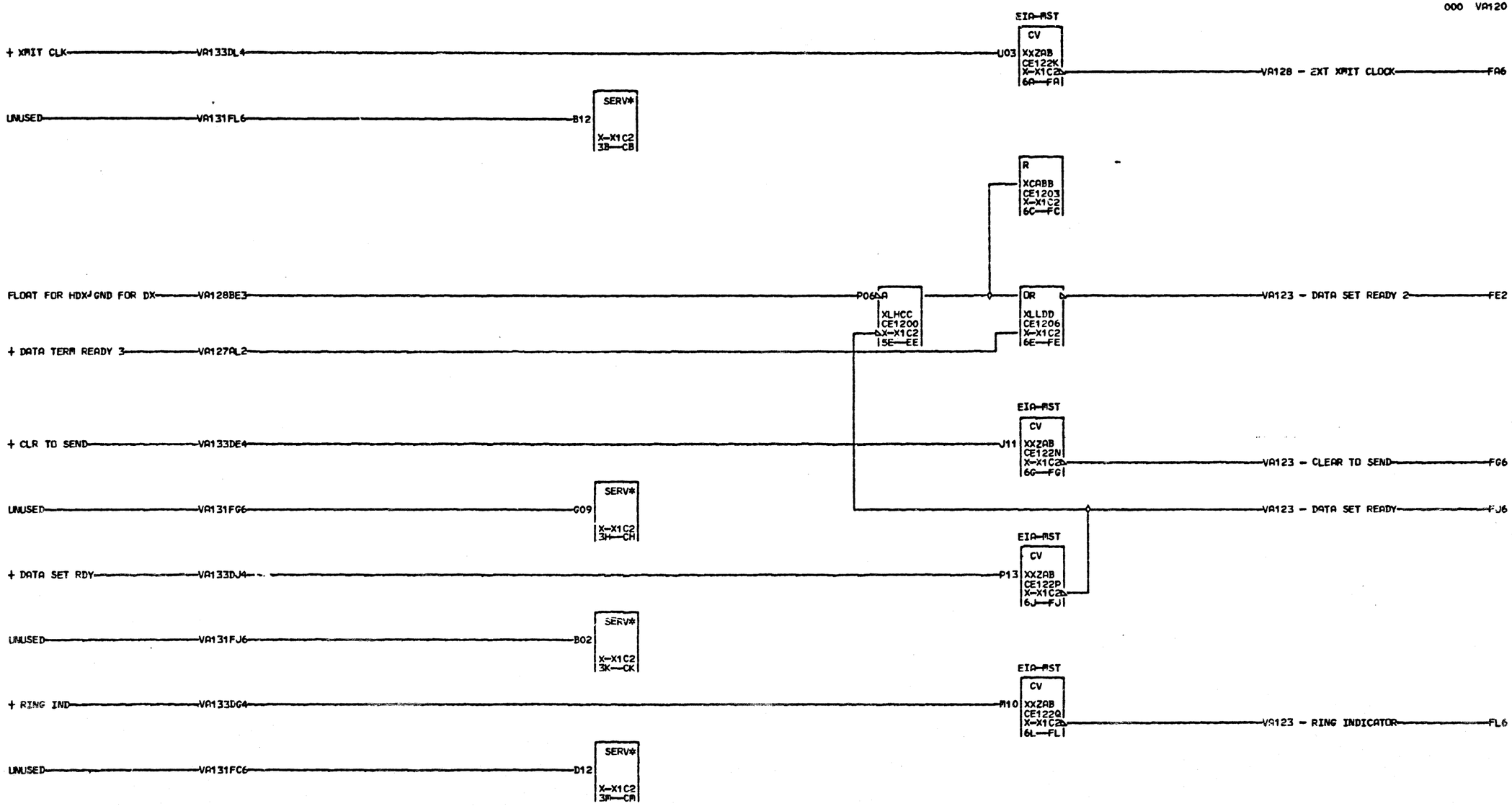
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499282

IBM CORP. SCD BLK. DP

V A 1 1 3 000

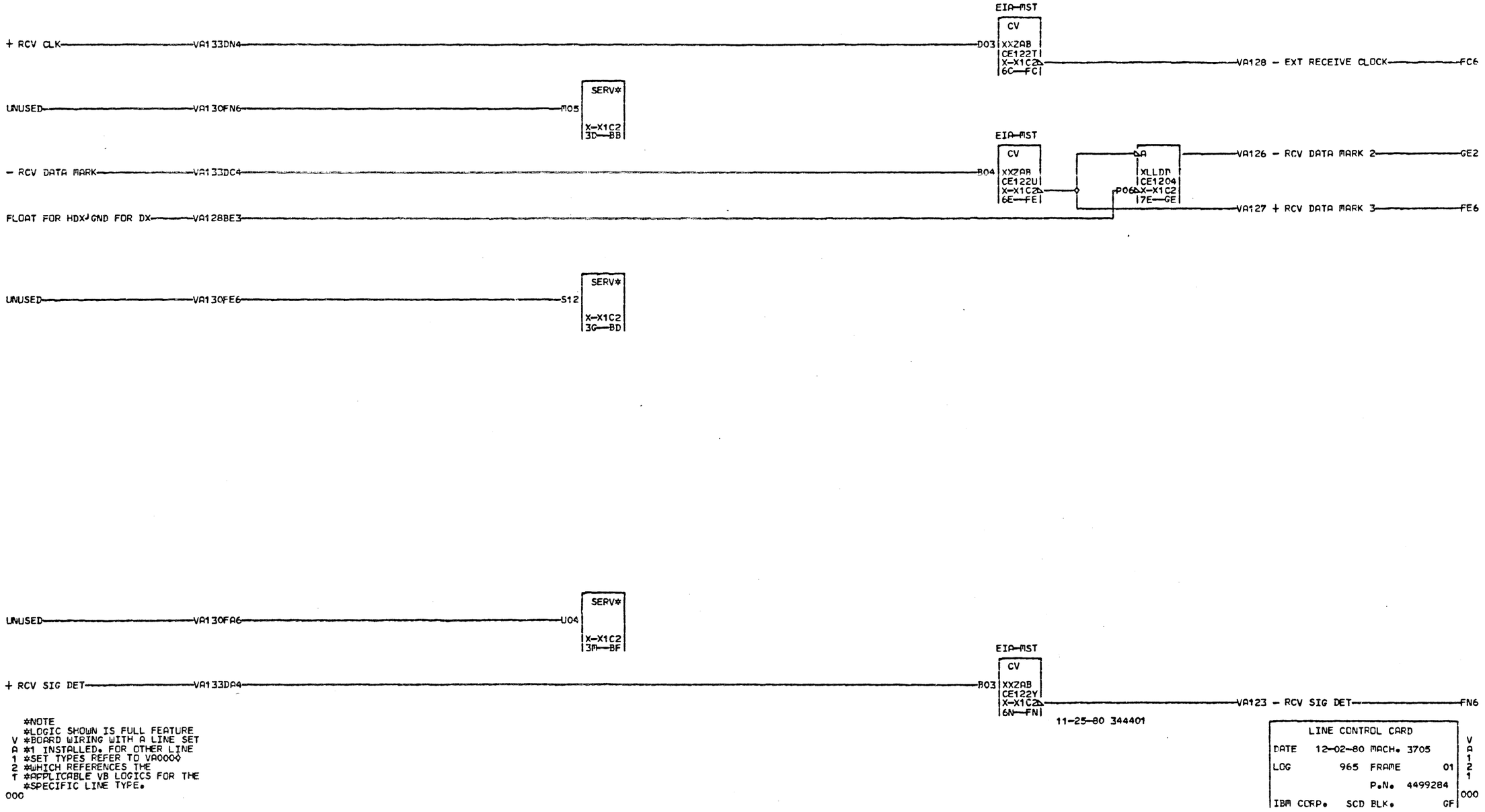


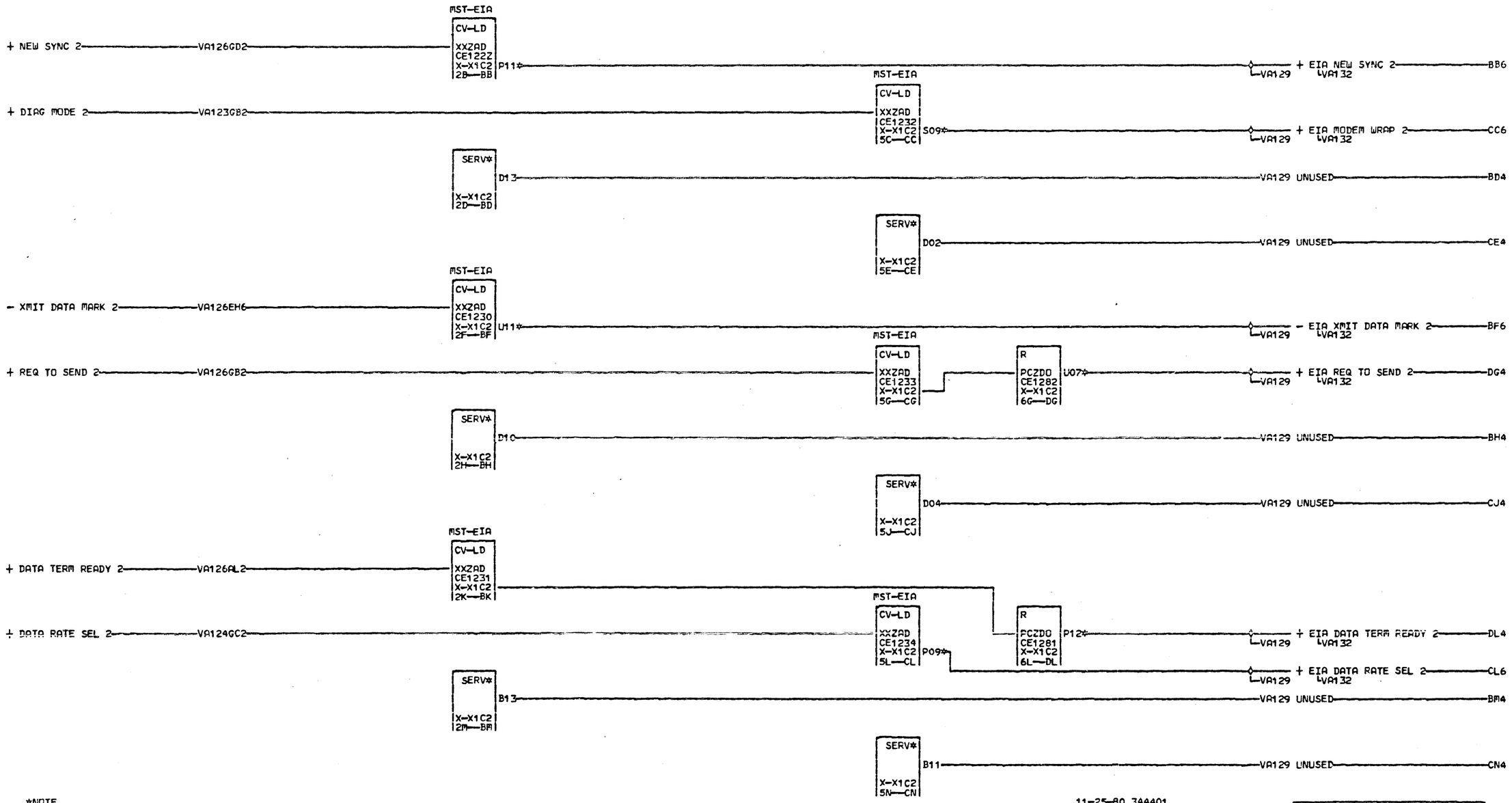

```
  *NOTE
  *LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0000
2 *WHICH REFERENCES THE
0 *APPLICABLE VB LOGICS FOR THE
  *SPECIFIC LINE TYPE.
000
```

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		
LOG	965	FRAME	01	
		P.N.	4499283	
IBM CORP.	SCD BLK.		FP	

VA120 000


+ RCV CLK
VA133DN4
D03
EIA-MST
CV
XXZAB
CE122T
X-X1C2
6C-FC
VA128 - EXT RECEIVE CLOCK
FC6
UNUSED
VA130FN6
M05
SERV*
X-X1C2
3D-BB
- RCV DATA MARK
VA133DC4
B04
EIA-MST
CV
XXZAB
CE122U
X-X1C2
6E-FE
A
XLLDD
CE1204
P06 X-X1C2
7E-GE
VA126 - RCV DATA MARK 2
GE2
FLOAT FOR HDX/GND FOR DX
VA128BE3
VA127 + RCV DATA MARK 3
FE6
UNUSED
VA130FE6
S12
SERV*
X-X1C2
3G-BD
UNUSED
VA130FA6
U04
SERV*
X-X1C2
3M-BF
+ RCV SIG DET
VA133DA4
R03
EIA-MST
CV
XXZAB
CE122Y
X-X1C2
6N-FN
VA123 - RCV SIG DET
FN6
11-25-80 344401
#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.
000
LINE CONTROL CARD
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499284
IBM CORP. SCD BLK. GF
V A 1 2 1 000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0C0◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

BB6	X-X1U4D10
BF6	X-X1U4B02
CC6	X-X1U4D11
CL6	X-X1U4D06
DG4	X-X1U4B06
DL4	X-X1U4D03

11-25-80 344401

LINE CONTROL CARD

DATE 12-02-80 MACH. 3705

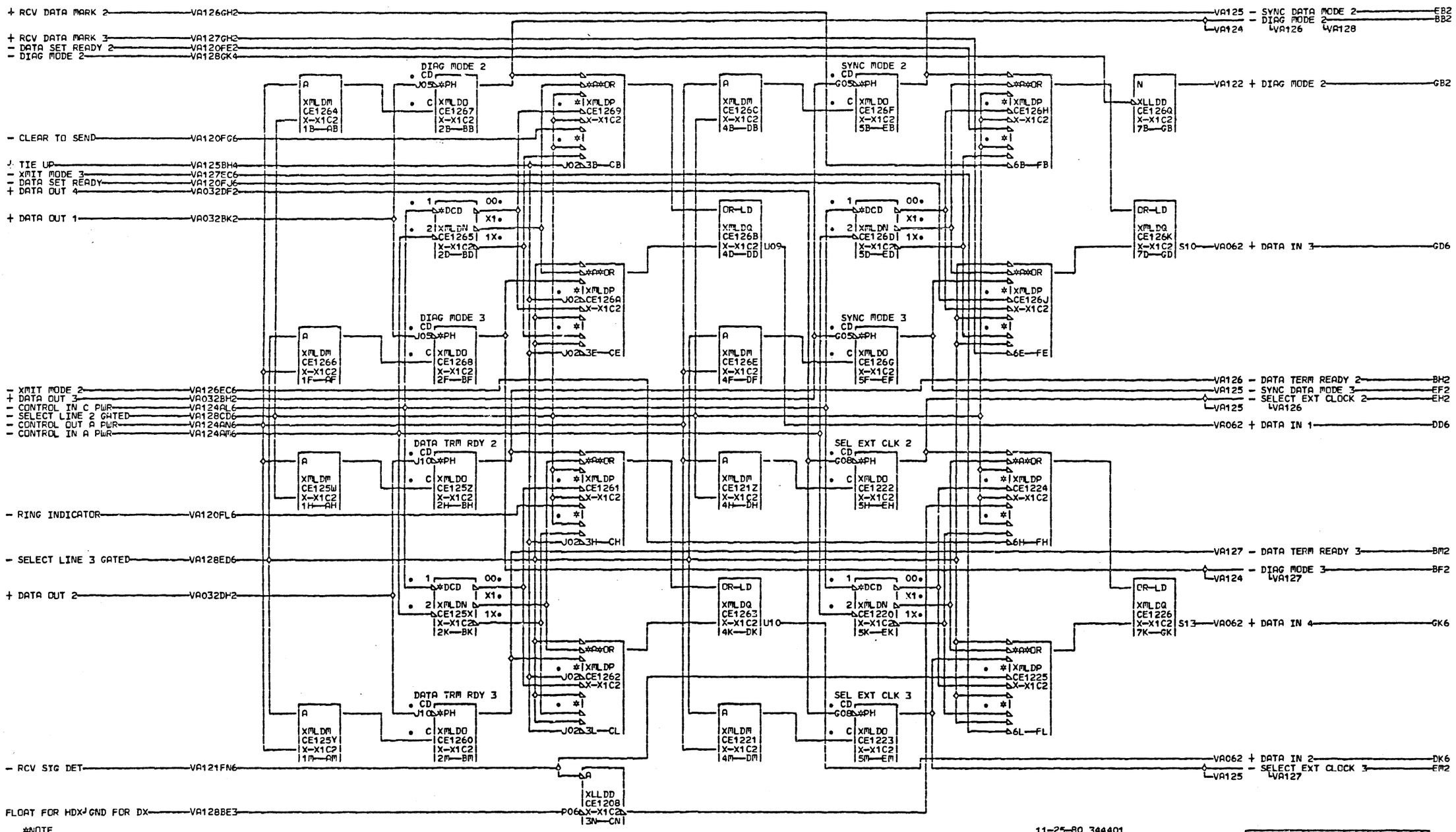
LOG 965 FRAME 01

P.N. 4499285

IBM CORP. SCD BLK. GN

VA122 000

000 VA123



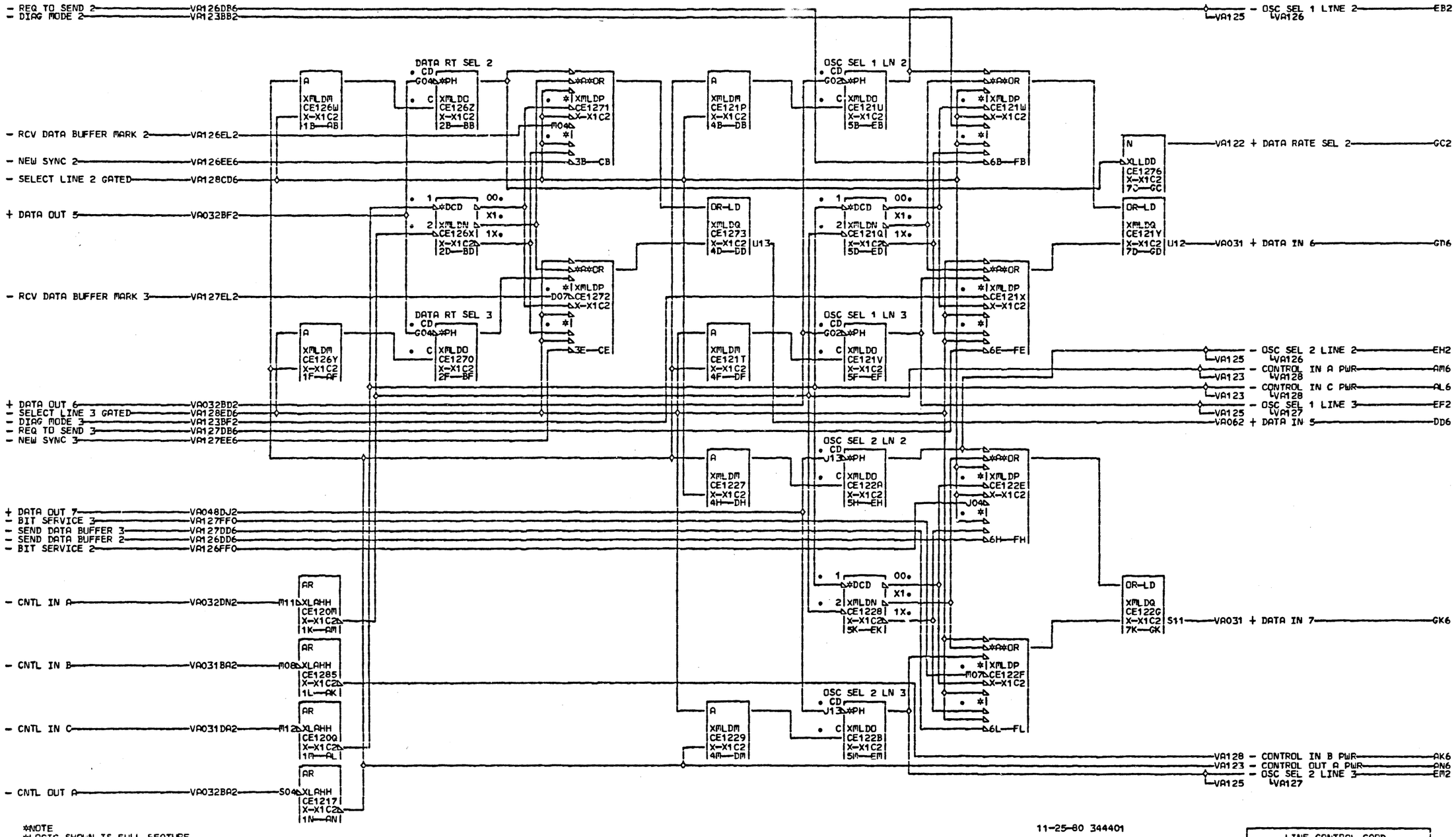
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401

LINE CONTROL CARD				V
DATE 12-02-80	MACH. 3705			A
LOG 965	FRAME	01		1
	P.N. 4499286			2
IBM CORP.	SCD BLK.	GN	000	3

000 VA124

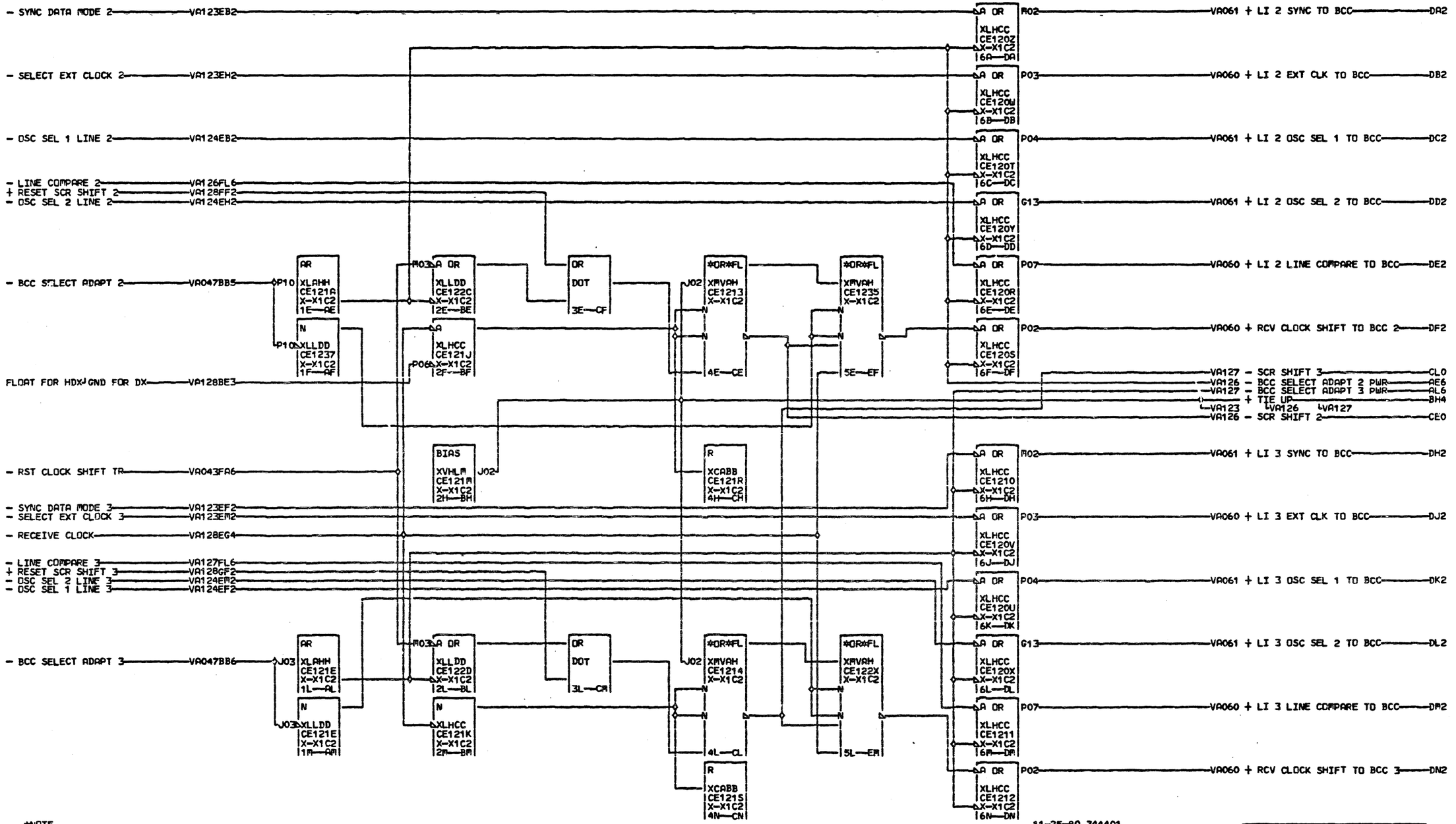


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401

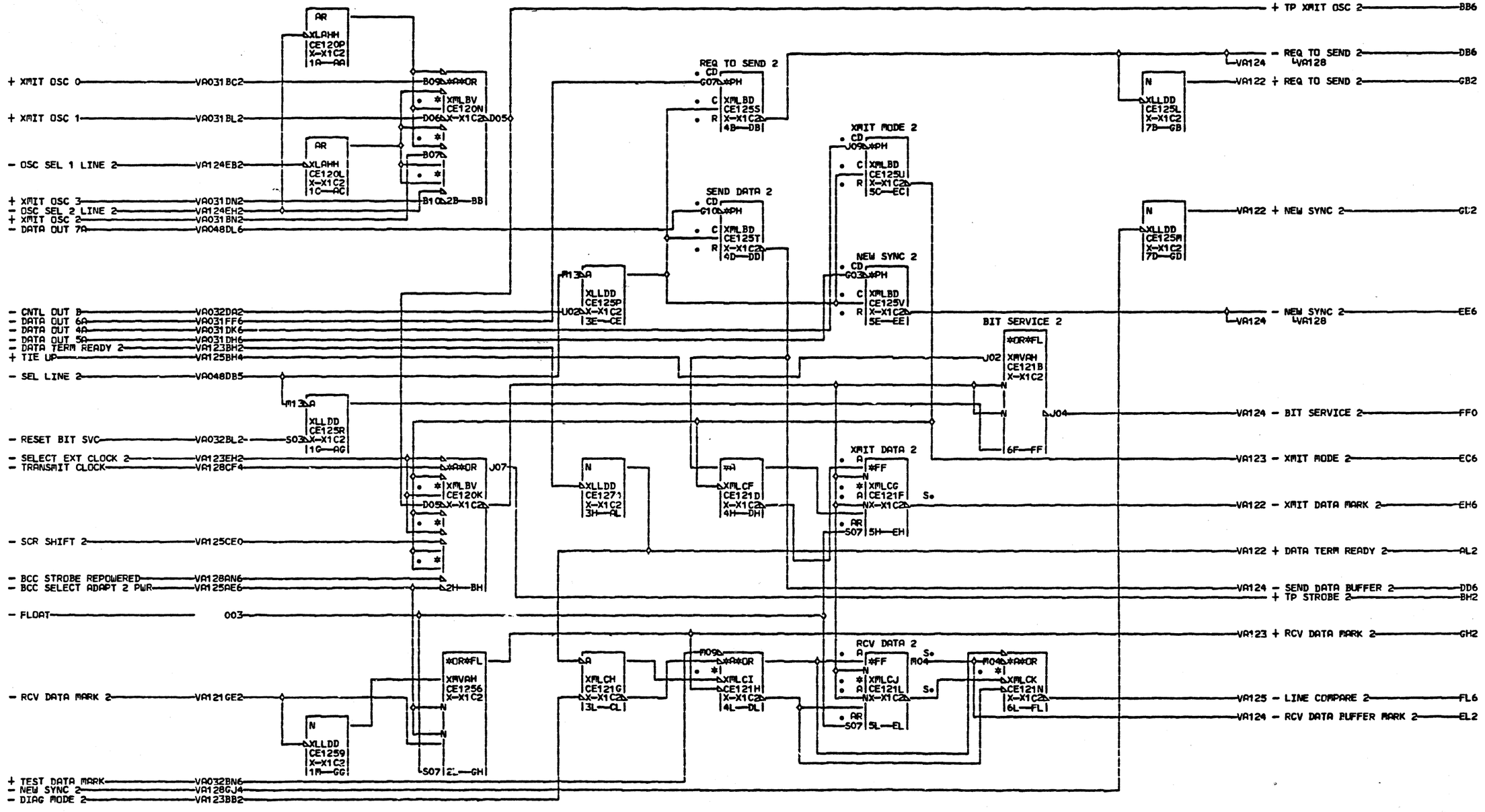
LINE CONTROL CARD				V A 1 2 4
DATE	12-02-80	MACH.	3705	
LOG	965	FRAME	01	
		P.N.	4499287	
IBM CORP.	SCD	BLK.	GL	000



#NOTE
#LOGIC SHOWN IS FULL FEATURE
V #BOARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
1 #SET TYPES REFER TO VA0000
2 #WHICH REFERENCES THE
5 #APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.
000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				V
DATE 04-22-81		MACH. 3705		A
LOG	237	FRAME	C1	1
		P.N. 4499288		2
IBM CORP.	SCD BLK.		GL	5
				000

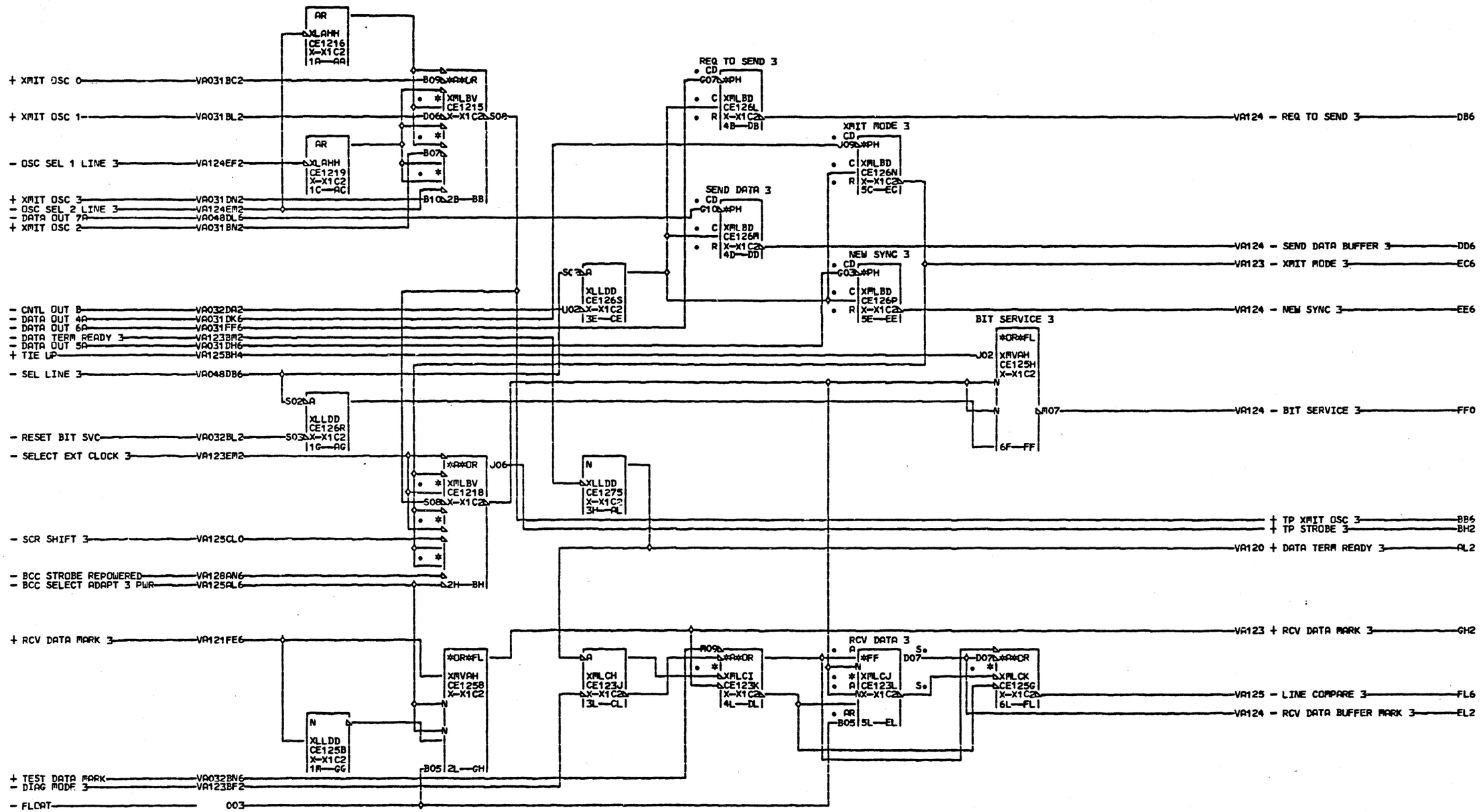


#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA0000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

V A 1 2 6 000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD			
DATE 04-22-81	MACH. 3705		V A 1 2 6
LOG 237	FRAME	01	
	P.N. 4499289		000
IBM CORP.	SCD BLK.	GJ	



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD

DATE	04-22-81	MACH.	3705	
LOG	228	FRAME	01	
		P.N.	4499290	
IBM CORP.	SCD BLK.		GJ	

VA127 000

000 VA128

BOARD JMPR
JMPR
X-X1C2
2A—BE

P06 — FLOAT FOR HDX / GND FOR DX — BE3
VA120 VA121 VA123 VA125

VA126 — BCC STROBE REPOWERED — AN6
VA127

P10 A OR
XLHCC
CE123A
X-X1C2
6B—FF

J03 A OR
XLHCC
CE1239
X-X1C2
7B—GF

VA125 + RESET SCR SHIFT 2 — FF2

VA123 — SELECT LINE 2 GATED — CD6
VA124

VA123 — SELECT LINE 3 GATED — ED6
VA124

VA126 — NEW SYNC 2 — GJ4

VA126 — TRANSMIT CLOCK — CF4

- BCC STROBE — VA050GC6 — P05
AR
XLLDD
CE1238
X-X1C2
1B—AN

- SEL LINE 3 — VA048DB6
- BCC SELECT ADAPT 2 — VA047BB5
- BCC SELECT ADAPT 3 — VA047BB6
- NEW SYNC 2 — VA126EE6
- CONTROL IN A PWR — VA124AM6
- CONTROL IN B PWR — VA124AK6
- SEL LINE 2 — VA048DB5

A13 A*OR
XMLAI
CE1286
A13 X-X1C2
A13 3D—CD

S02 A*OR
XMLAI
CE1287
X-X1C2
S02
S02 5D—ED

CRD PIN R10
PIN
NOTE 2
P4PIN
CE120J
X-X1C2
6E—EJ

CRD PIN V15
PIN
NOTE 2
P4PIN
CE122R
X-X1C2
2F—BF

- EXT XMIT CLOCK — VA120FA6
- CONTROL IN C PWR — VA124AL6

CRD PIN V14
PIN
NOTE 2
P4PIN
CE122A
X-X1C2
3G—CF

CRD PIN R08
PIN
NOTE 2
P4PIN
CE120G
X-X1C2
6G—FH

CRD PIN R09
PIN
NOTE 2
P4PIN
CE120H
X-X1C2
7F—GJ

CRD PIN V13
PIN
NOTE 2
P4PIN
CE122L
X-X1C2
2H—AG

UNUSED — VA070FC2 — D09

- REQ TO SEND 2 — VA126DB6
- DIAG MODE 2 — VA123BB2

CRD PIN Q10
PIN
NOTE 2
P4PIN
CE120D
X-X1C2
6K—EK

CRD PIN T15
PIN
NOTE 2
P4PIN
CE122J
X-X1C2
2L—DG

- EXT RECEIVE CLOCK — VA121FC6

CRD PIN P09
PIN
NOTE 2
P4PIN
CE123D
X-X1C2
5L—GL

CRD PIN T14
PIN
NOTE 2
P4PIN
CE122H
X-X1C2
3A—EG

CRD PIN Q08
PIN
NOTE 2
P4PIN
CE120B
X-X1C2
6F—FL

CRD PIN Q09
PIN
NOTE 2
P4PIN
CE120C
X-X1C2
7L—GK

VA123 — DIAG MODE 2 — GK4

CRD PIN T13
PIN
NOTE 2
P4PIN
CE121C
X-X1C2
2N—CH

UNUSED — VA070FC6 — D11

VA125 — RECEIVE CLOCK — EG4

#NOTE 1
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

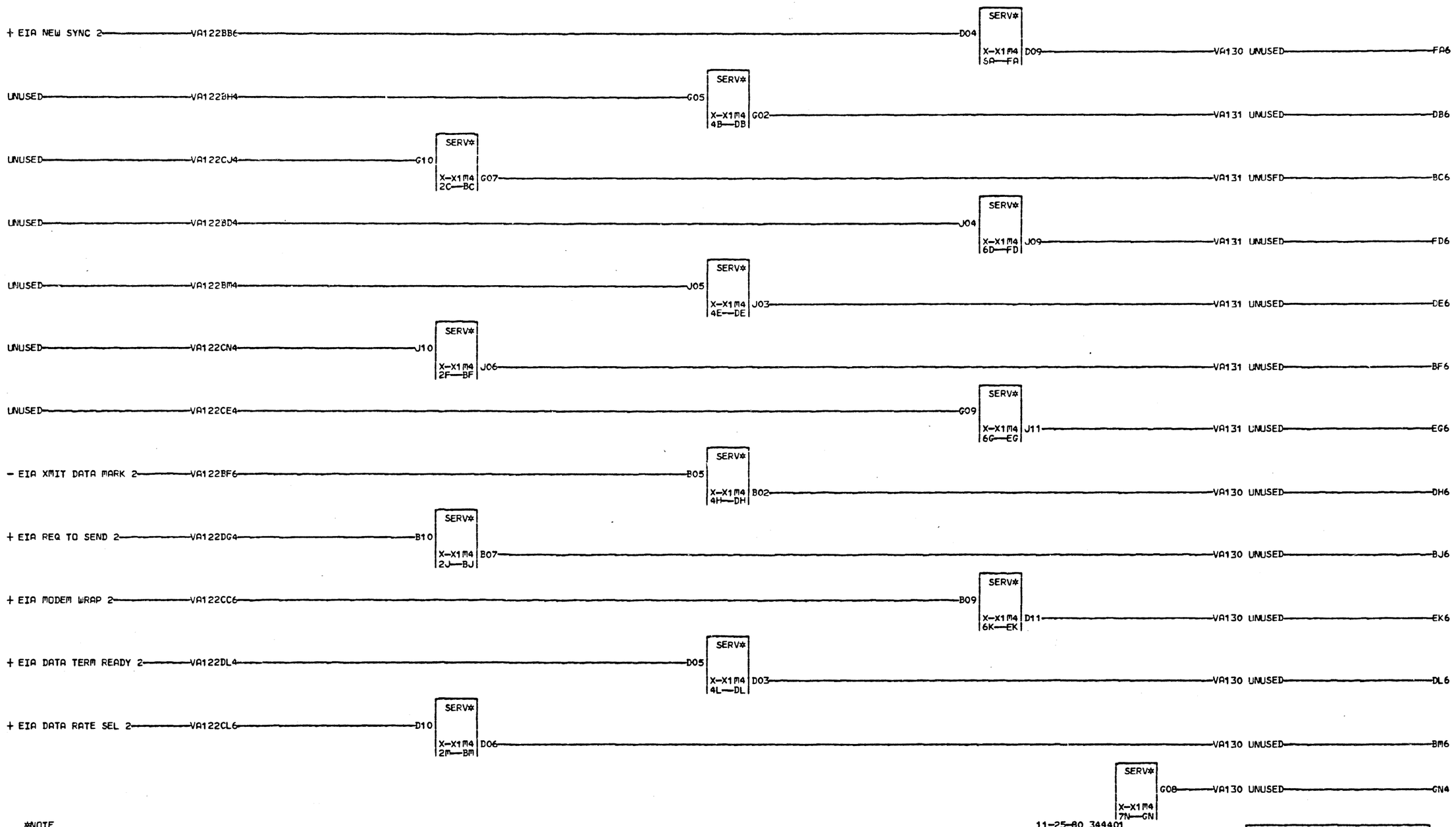
000#NOTE 2
#REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD

DATE	04-22-81	PACH.	3705	
LOG	237	FRAME	01	
		P.N.	4499291	
IBM CORP.	SCD	BLK.	GM	

VA128 000

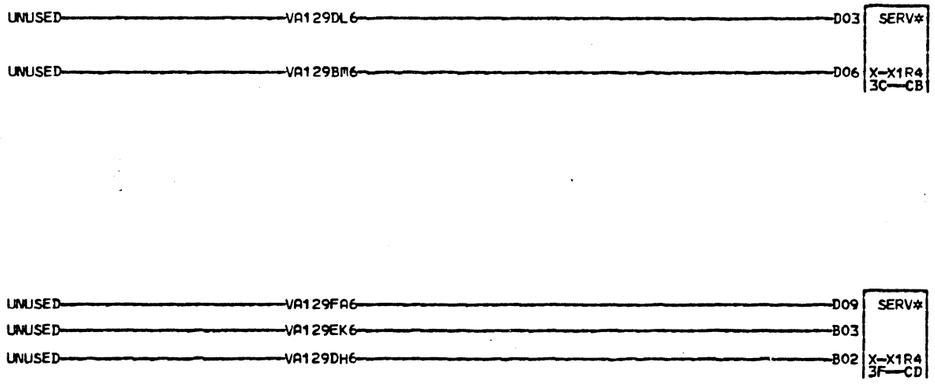


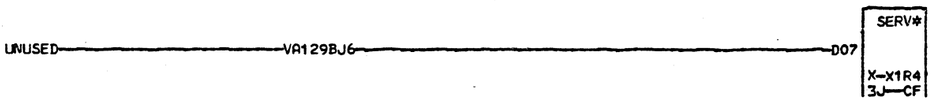
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

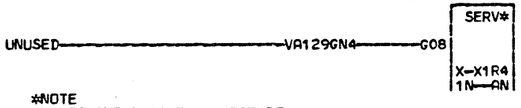
000

11-25-80 344401

SERV WIRING					
DATE	12-02-80	MACH.	3705		V A 1 2 9
LOG	965	FRAME		01	
		P.N.	4499292		
IBM CORP.	SCD	BLK.		GP	000

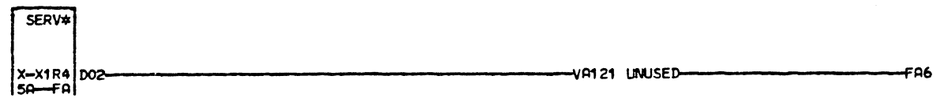


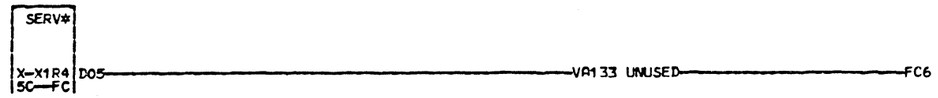


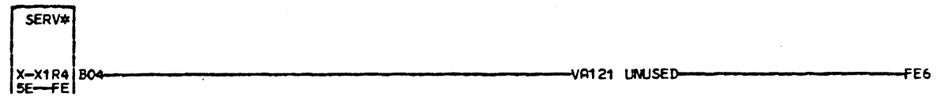


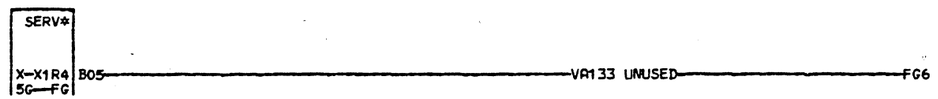
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

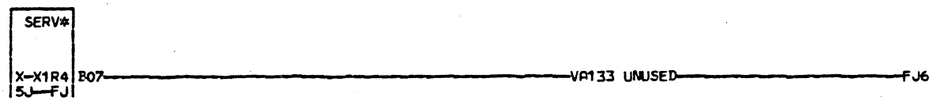
V A 1 3 0 000

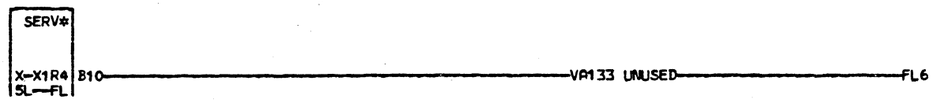


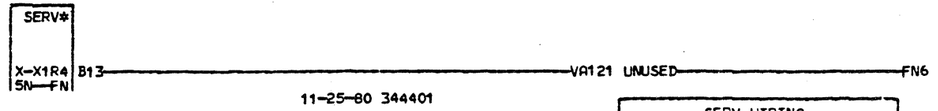






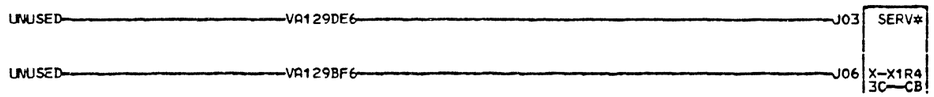


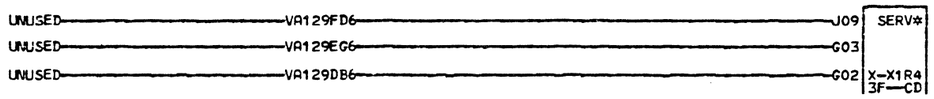


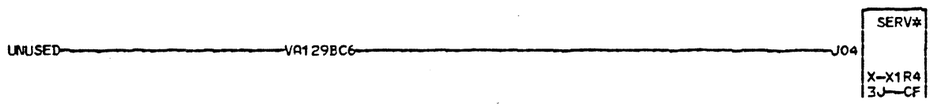


11-25-80 344401

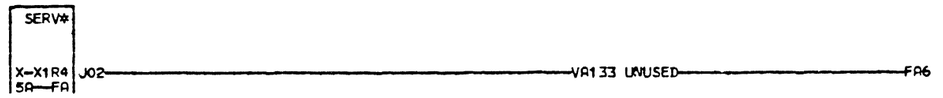
SERV WIRING				
DATE	12-02-80	MACH. 3705		V A 1 3 0 000
LOG	965	FRAME	01	
		P.N.	4499293	
IBM CORP.	SCD	BLK.	FP	

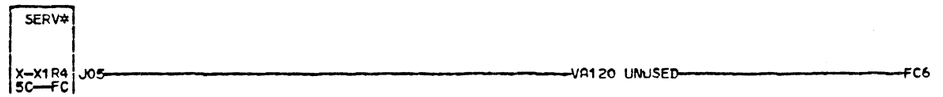


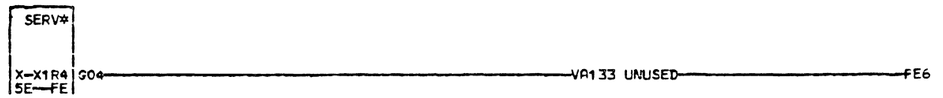


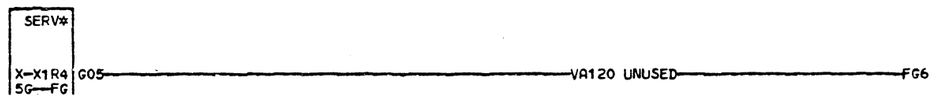


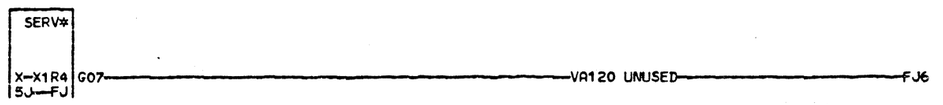
#NOTE
#LOGIC SHOWN IS FULL FEATURE
V #BOARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
1 #SET TYPES REFER TO VA0000
3 #WHICH REFERENCES THE
T #APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.
000

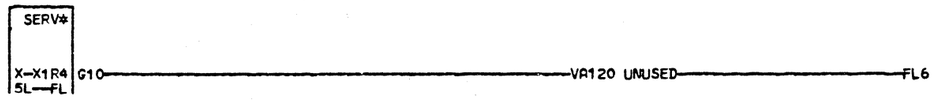


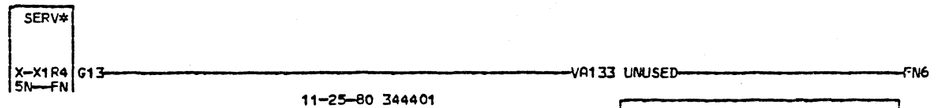








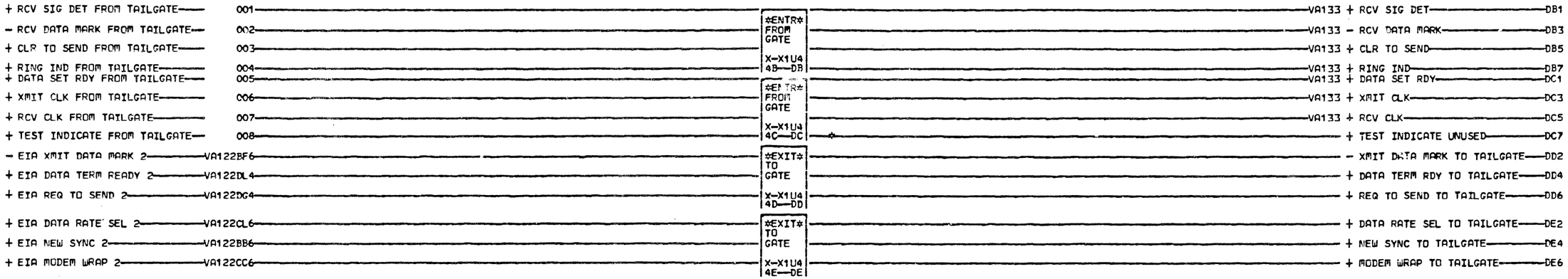




11-25-80 344401

SERV WIRING

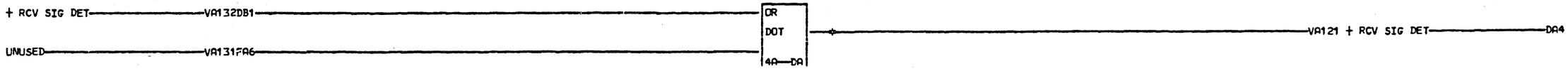
DATE	12-02-80 MACH. 3705	V
LOG	965 FRAME 01	A
	P.N. 4499294	1
IBM CORP.	SCD BLK. FP	3
		1
		000

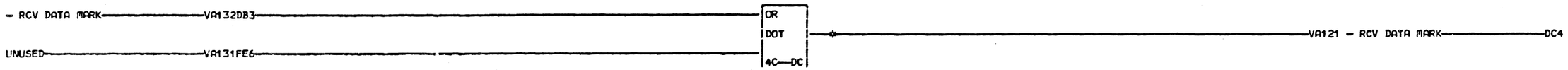


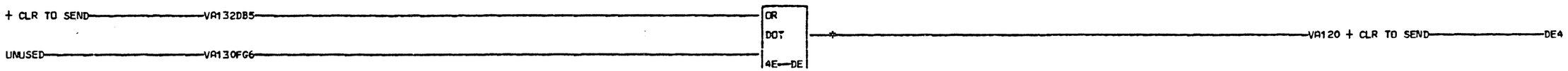

```
  #NOTE
  #LOGIC SHOWN IS FULL FEATURE   DC7 X-X1U4D13
V #BOARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
1 #SET TYPES REFER TO VA000◊
3 #WHICH REFERENCES THE
2 #APPLICABLE VB LOGICS FOR THE
  #SPECIFIC LINE TYPE.
000
```

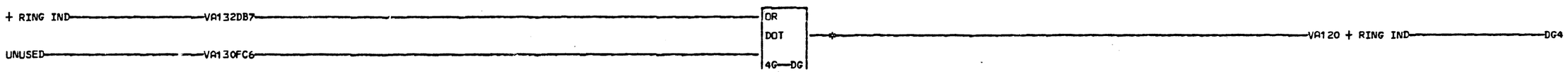
11-25-80 344401

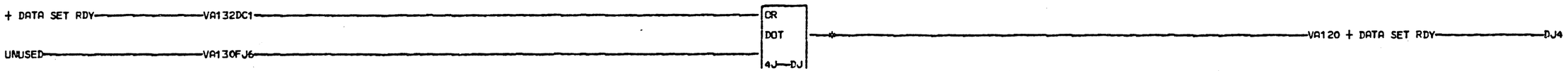
LINE INTERFACE CABLE				
DATE	12-02-80	MACH. 3705		V A 1 3 2
LOG	965	FRAME	01	
		P.N.	4499295	000
IBM CORP.	SCD BLK.		DF	

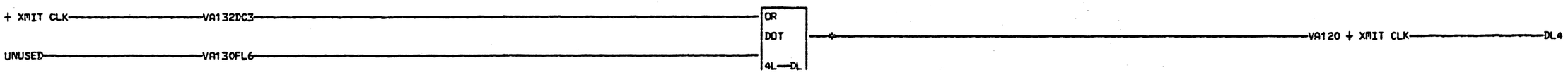


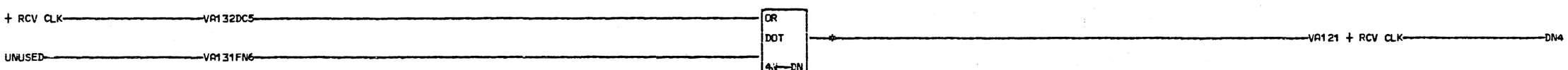












*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA000◊
3 *WHICH REFERENCES THE
3 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

DA4 X-X1U4D02
DC4 X-X1U4B04
DE4 X-X1U4B05
DG4 X-X1U4D05
DJ4 X-X1U4B08
DL4 X-X1U4B10
DN4 X-X1U4B13

11-25-80 344401

DOTTED REC LINE INTERFACE

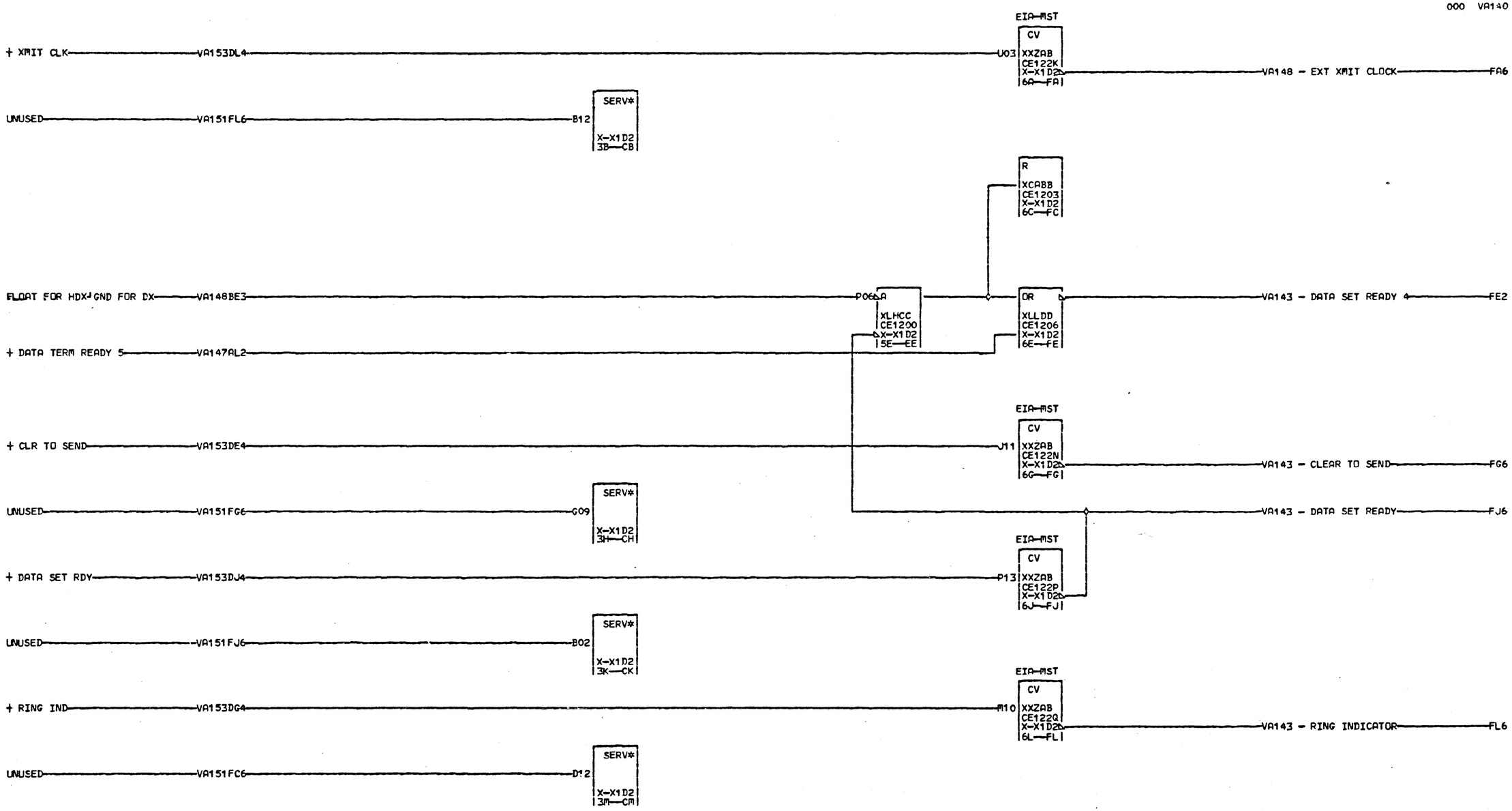
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499296

IBM CORP. SCD BLK. DP

V A 1 3 3 000

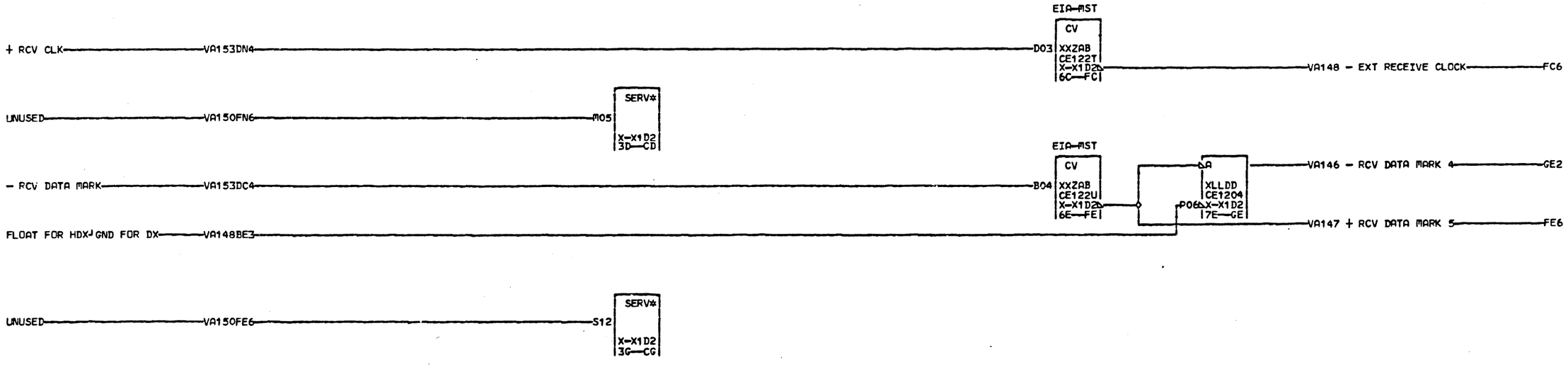


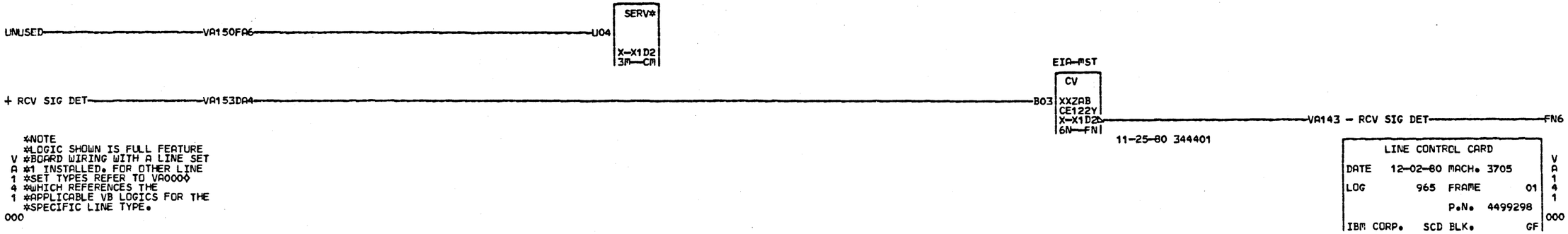
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

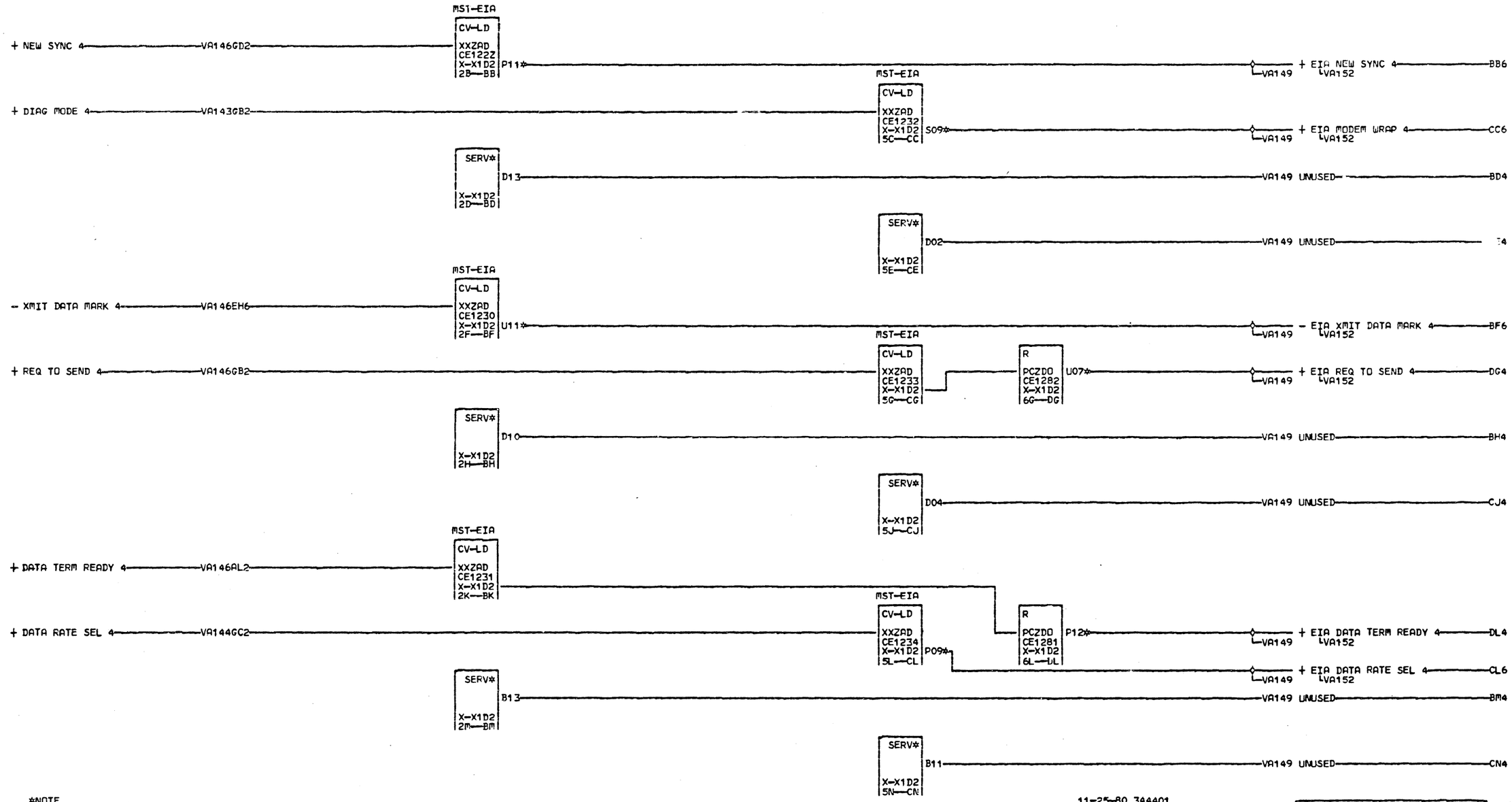
V A 1 4 0 000

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		V A 1 4 0
LOG	965	FRAME	01	
		P.N.	4499297	
IBM CORP.	SCD BLK.		FP	000


+ RCV CLK
VA153DN4
D03
EIA-MST
CV
XXZAB
CE122T
X-X1D2
6C-FC
VA148 - EXT RECEIVE CLOCK
FC6
UNUSED
VA150FN6
M05
SERV*
X-X1D2
3D-CD
- RCV DATA MARK
VA153DC4
B04
EIA-MST
CV
XXZAB
CE122U
X-X1D2
6E-FE
A
XLLDD
CE1204
X-X1D2
7E-GE
VA146 - RCV DATA MARK 4
GE2
P06
FLOAT FOR HDX/GND FOR DX
VA148BE3
VA147 + RCV DATA MARK 5
FE6
UNUSED
VA150FE6
S12
SERV*
X-X1D2
3G-CG


UNUSED
VA150FA6
U04
SERV*
X-X1D2
3M-CM
EIA-MST
+ RCV SIG DET
VA153DA4
B03
CV
XXZAB
CE122Y
X-X1D2
6N-FN
VA143 - RCV SIG DET
FN6
11-25-80 344401
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000
LINE CONTRCL CARD
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499298
IBM CORP. SCD BLK. GF
VA141
000

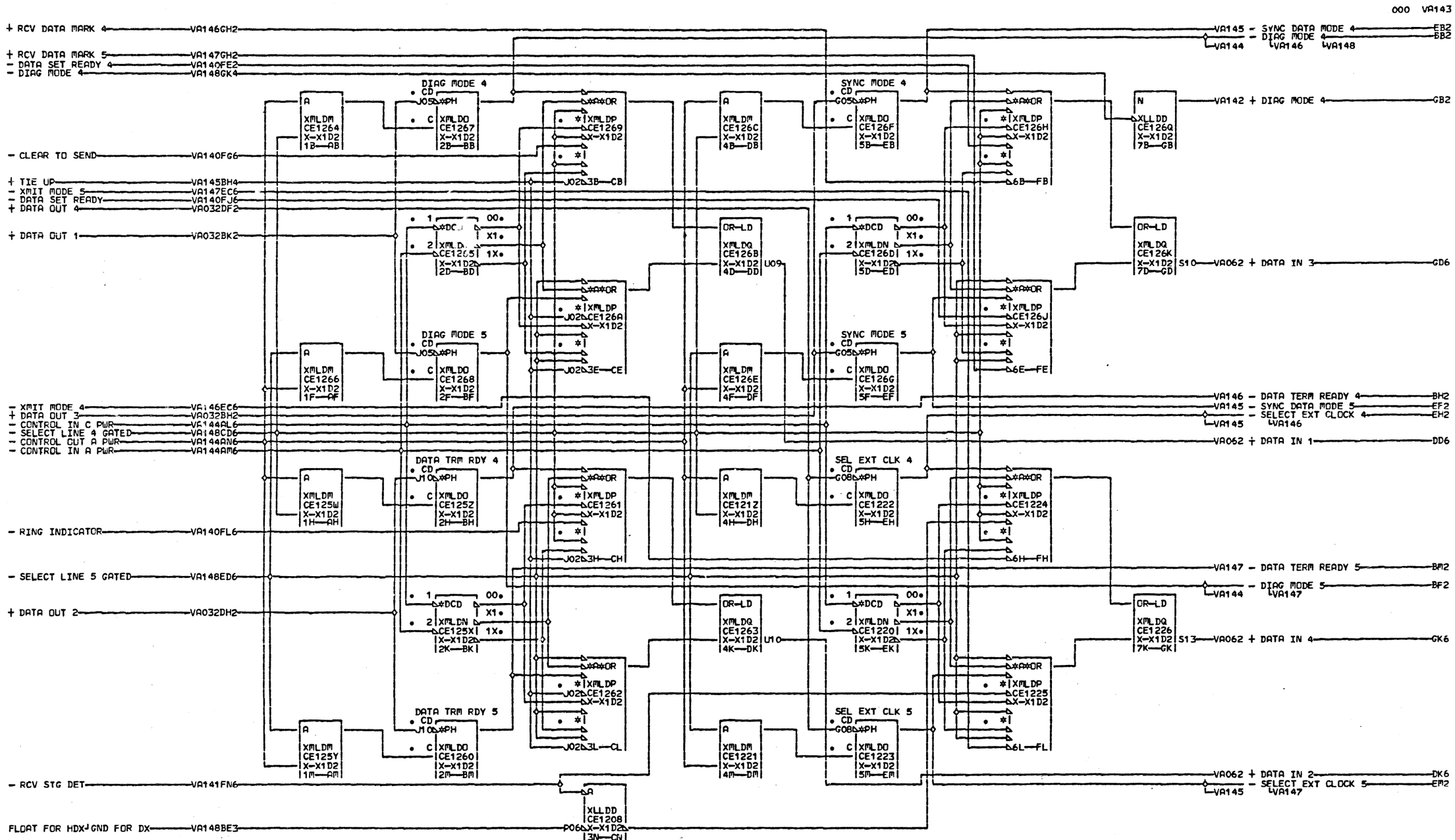


*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0000
4 *WHICH REFERENCES THE
2 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

BB6 X-X1V2D10
BF6 X-X1V2B02
CC6 X-X1V2D11
CL6 X-X1V2D06
DG4 X-X1V2B06
DL4 X-X1V2D03

11-25-80 344401

LINE CONTROL CARD				V
DATE	12-02-80	MACH. 3705		A
LOG	965	FRAME	01	1
		P.N.	4499299	4
IBM CORP.	SCD BLK.		GN	2 000



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

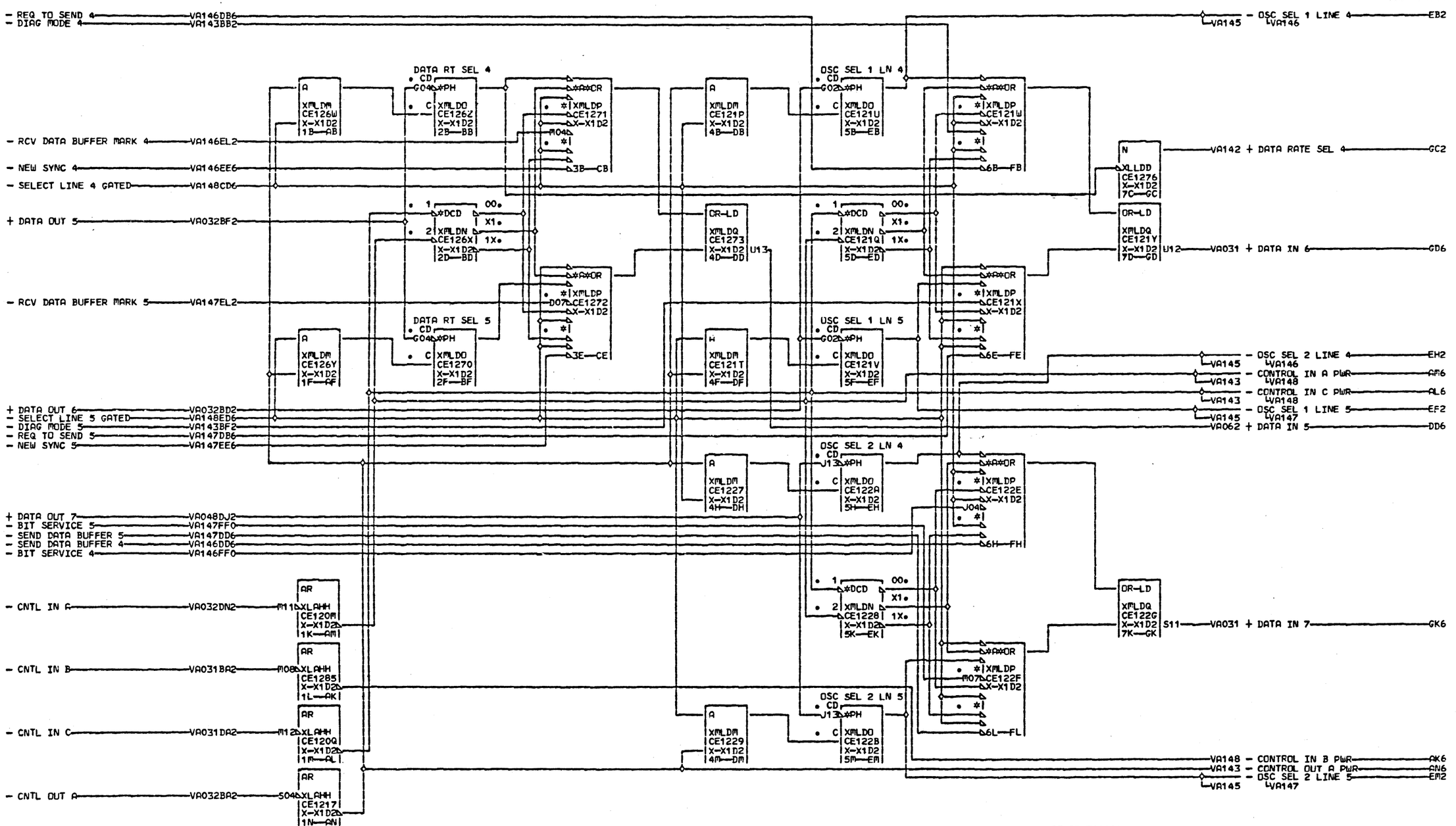
V A 1 4 3 000

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH.	3705	
LOG	965	FRAME		01
		P.N.	4499300	
IBM CORP.	SCD	BLK.		GN

000

000 VA144

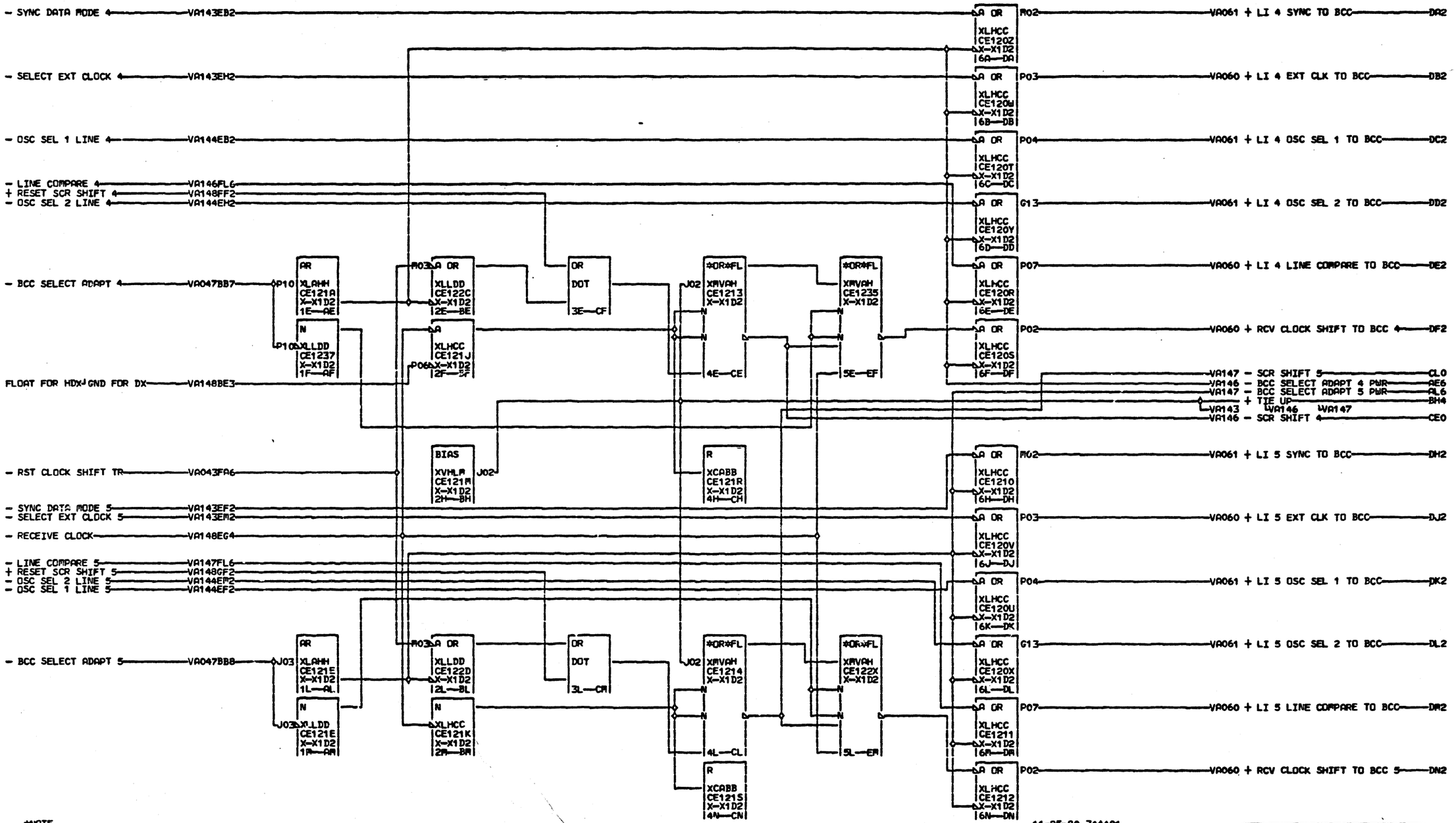


*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA000◊
4 *WHICH REFERENCES THE
4 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

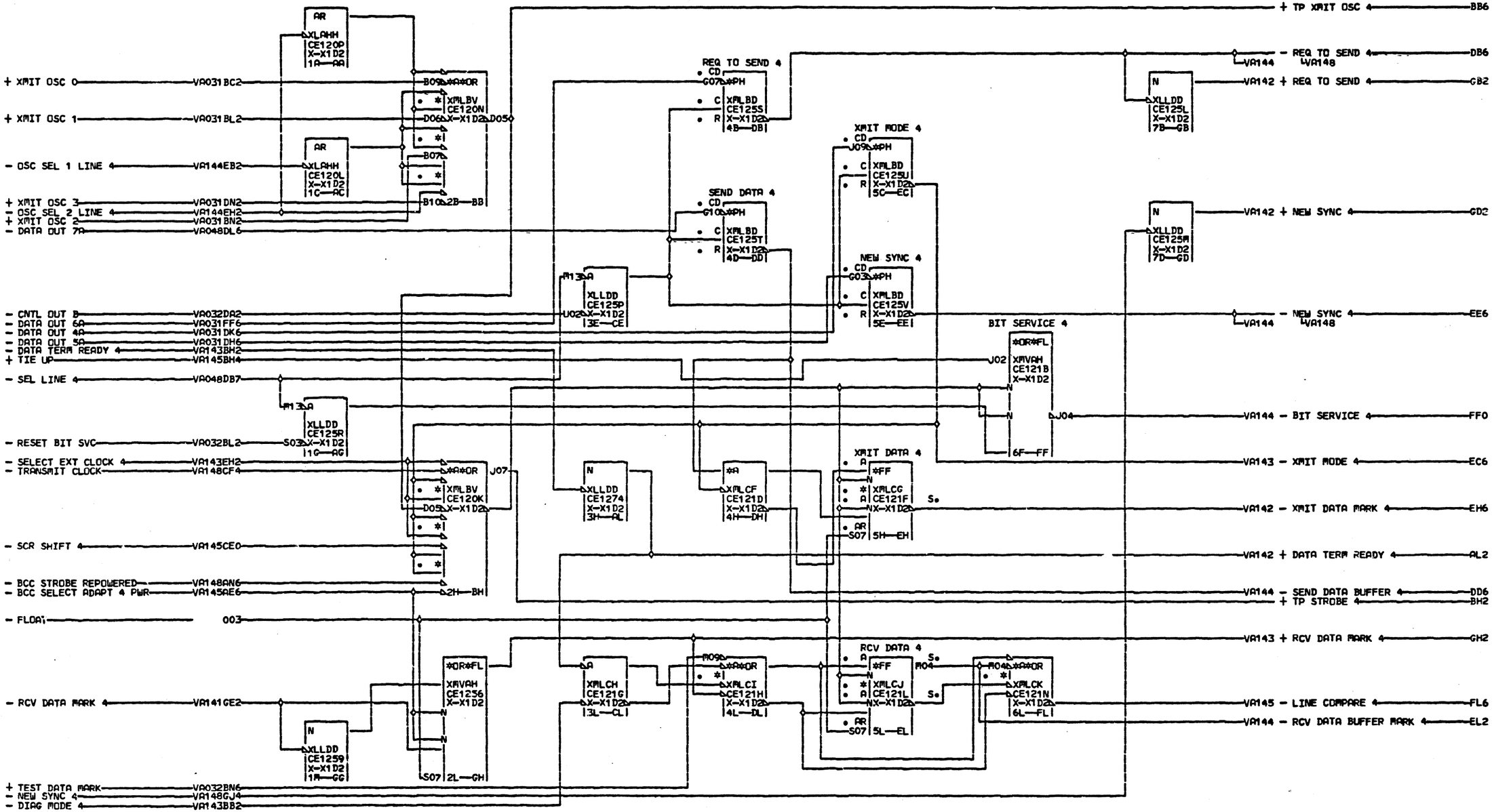
11-25-80 344401

LINE CONTROL CARD				V A 1 4 4
DATE 12-02-80	MACH. 3705			
LOG 965	FRAME	01		
	P.N. 4499301			000
IBM CORP.	SCD BLK.	GL		



*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0000
4 #WHICH REFERENCES THE
5 #APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

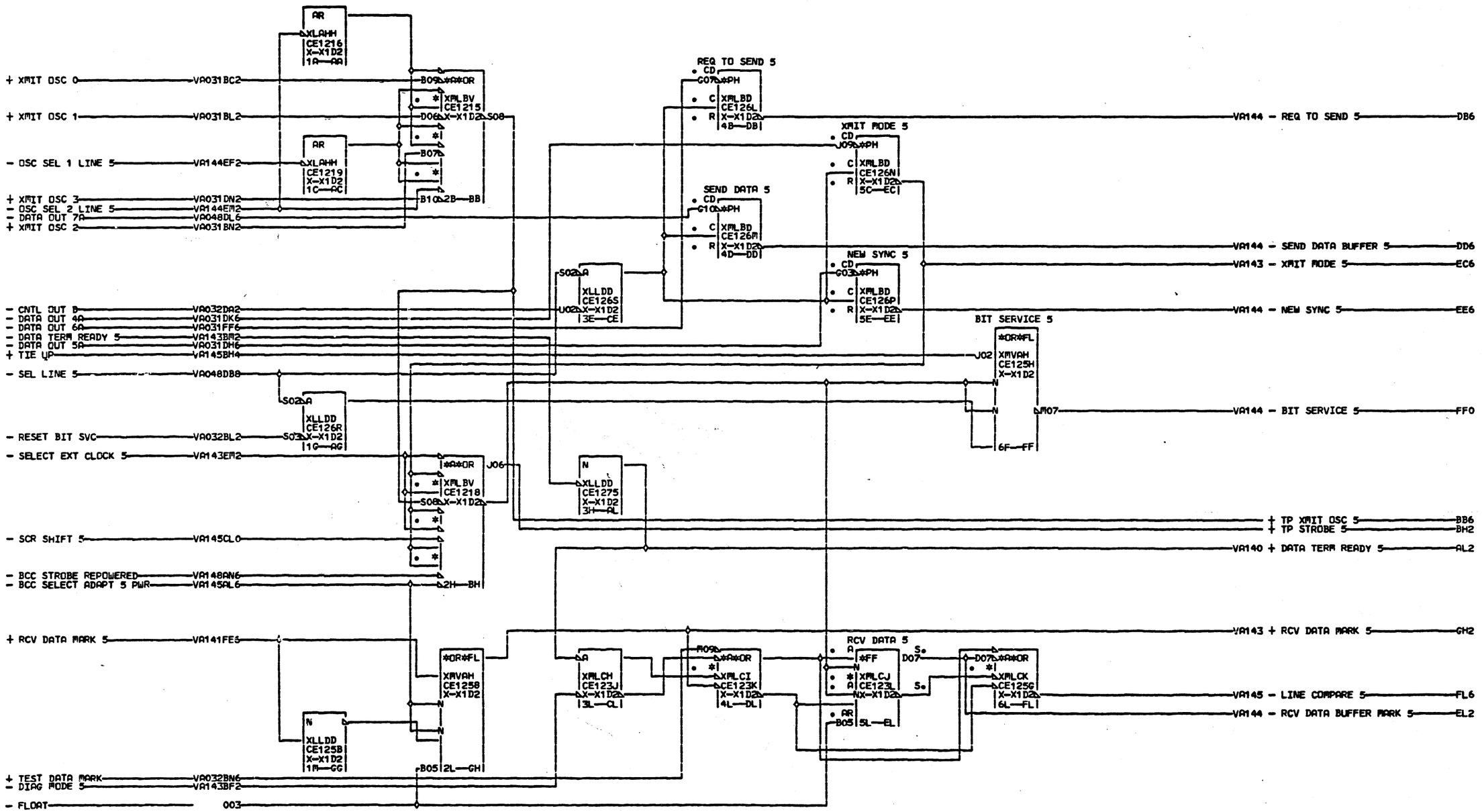
LINE CONTROL CARD				V
DATE	04-22-81	PACH.	3705	A
LOG	237	FRAME	01	1
		P.N.	4499302	4
IBM CORP.	SCD	BLK.	GL	5
				000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BCARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0000
4 *WHICH REFERENCES THE
6 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD					
DATE	04-22-81	PACH. 3705			V A 1 4 6
LOG	237	FRAME	01		
		P.N.	4499303		
IBM CORP.	SCD BLK.		GJ		000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

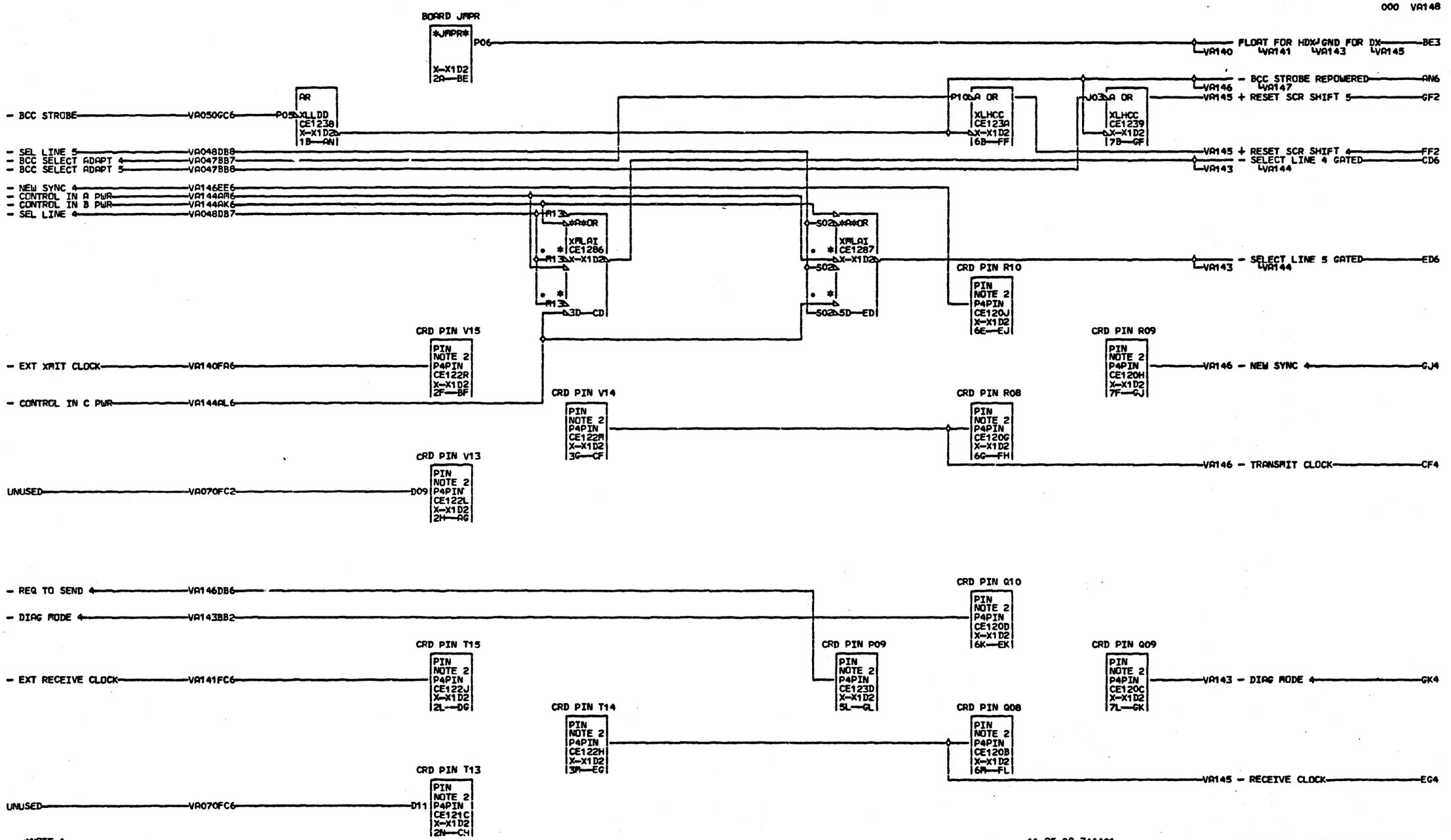
000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD

DATE 04-22-81 FACH. 3705
LOG 228 FRAME 01
P.N. 4499304
IBM CORP. SCD BLK. GJ

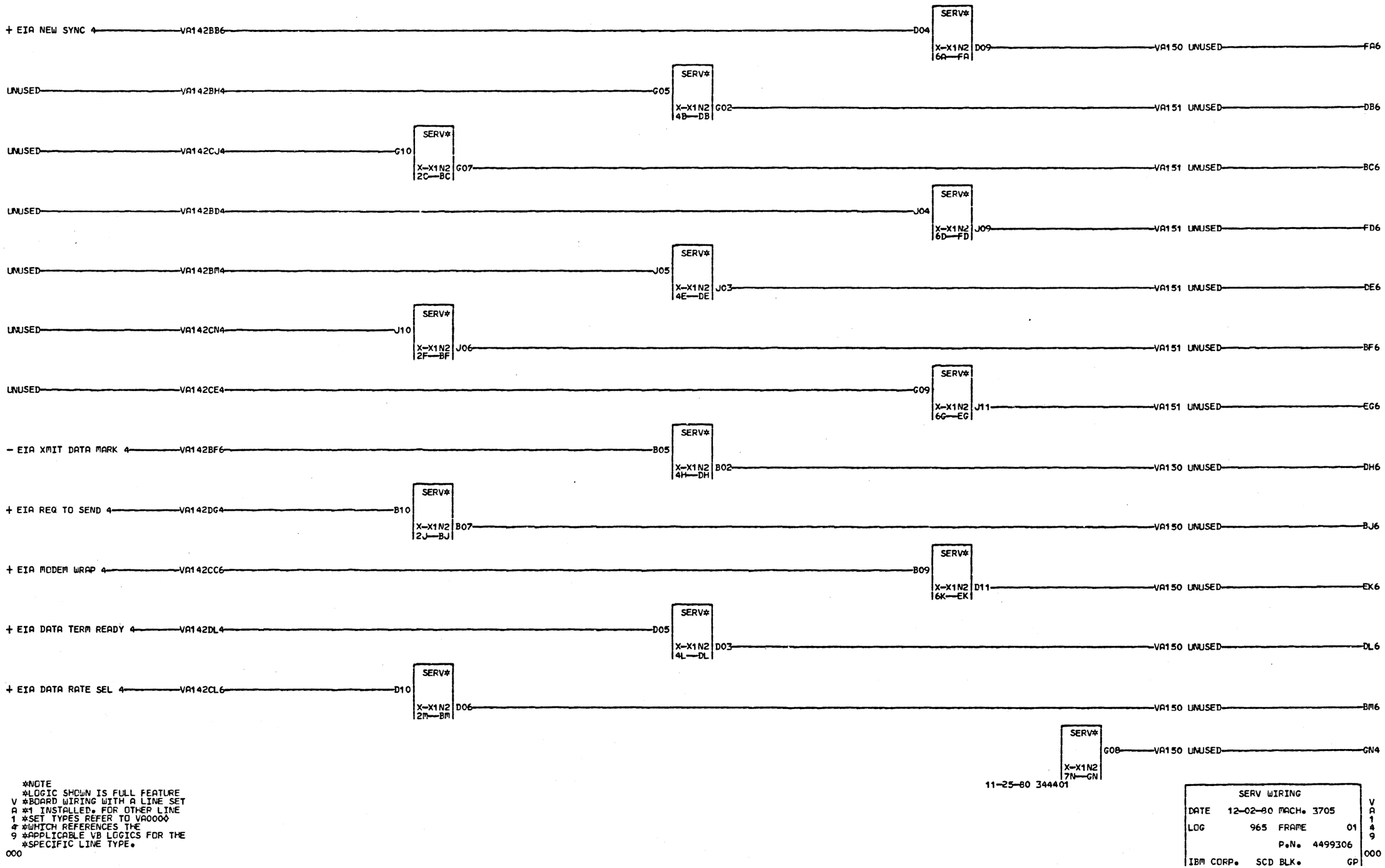
VA147 000



*NOTE 1
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0004
4 *WHICH REFERENCES THE
8 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000*NOTE 2
*REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	MACH. 3705		V A 1 4 8
LOG	237	FRAME	01	
		P.N.	4499305	000
IBM CORP.	SCD BLK.		GP	

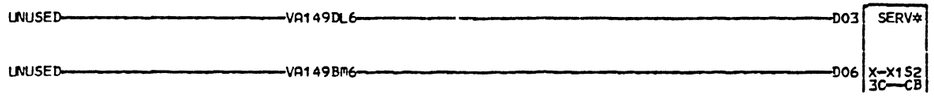


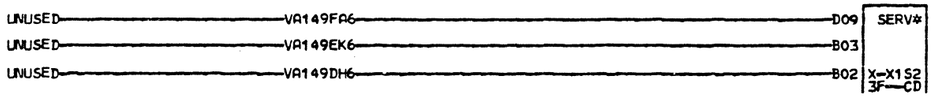
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

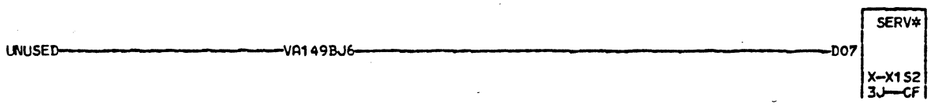
000

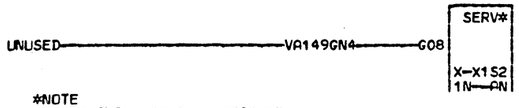
11-25-80 344401

SERV WIRING				
DATE	12-02-80	MACH. 3705		VA149
LOG	965	FRAME	01	
		P.N.	4499306	000
IBM CORP.	SCD BLK.		GP	

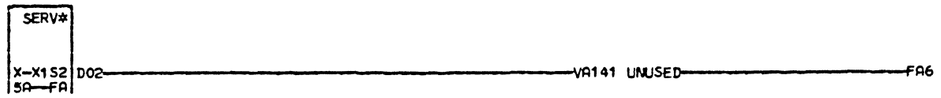


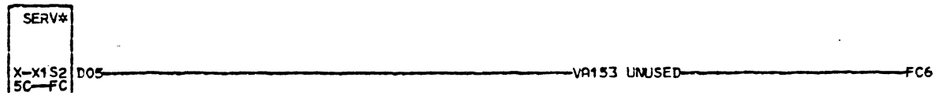


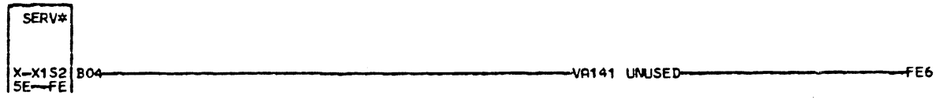


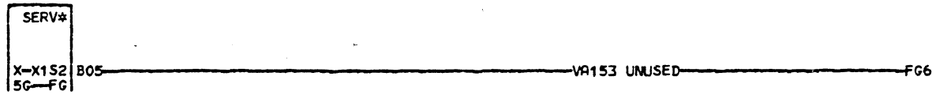


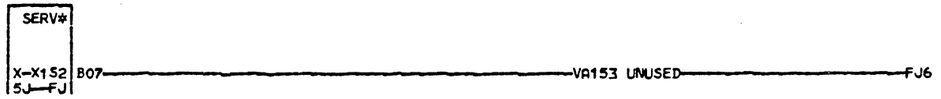

```
   *NOTE
   *LOGIC SHOWN IS FULL FEATURE
V  *BOARD WIRING WITH A LINE SET
A  *1 INSTALLED. FOR OTHER LINE
1  *SET TYPES REFER TO VA000◊
5  *WHICH REFERENCES THE
0  *APPLICABLE VB LOGICS FOR THE
   *SPECIFIC LINE TYPE.
000
```

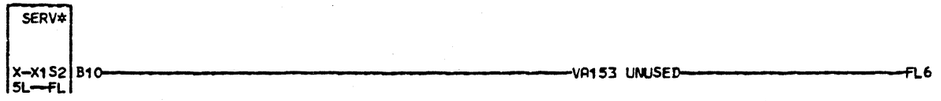


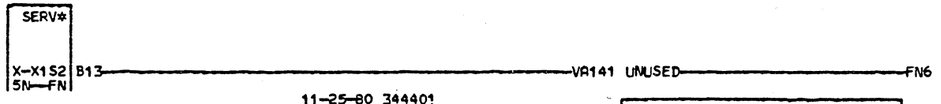






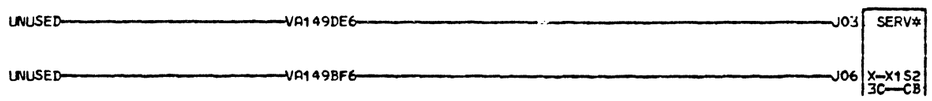


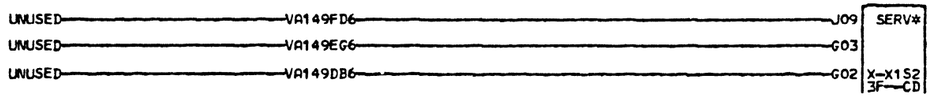


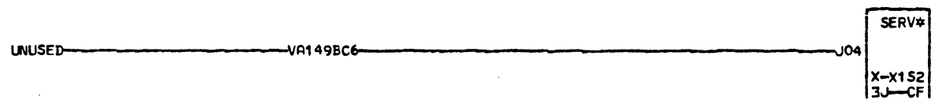


11-25-80 344401

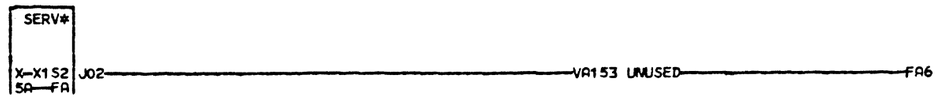
SERV WIRING				V
DATE	12-02-80	MACH. 3705		A
LOG	965	FRAME	01	1
		P.N.	4499307	5
IBM CORP.	SCD BLK.		FP	0
				000

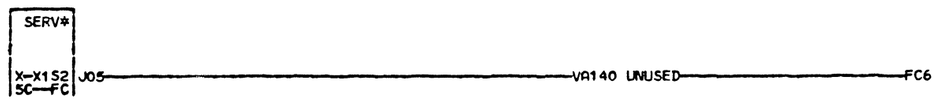


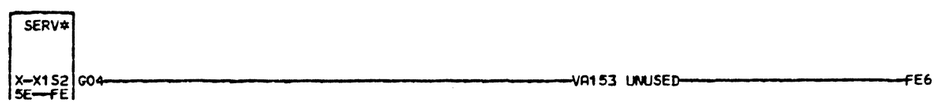


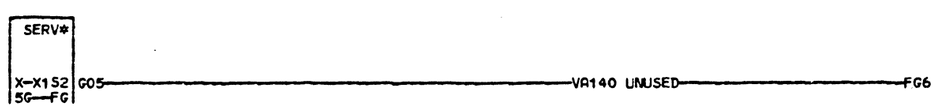


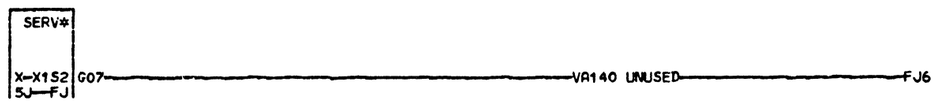
*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0000
5 *WHICH REFERENCES THE
1 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

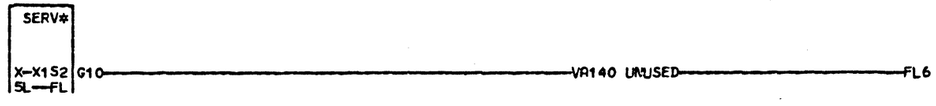


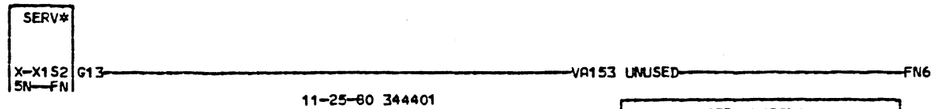






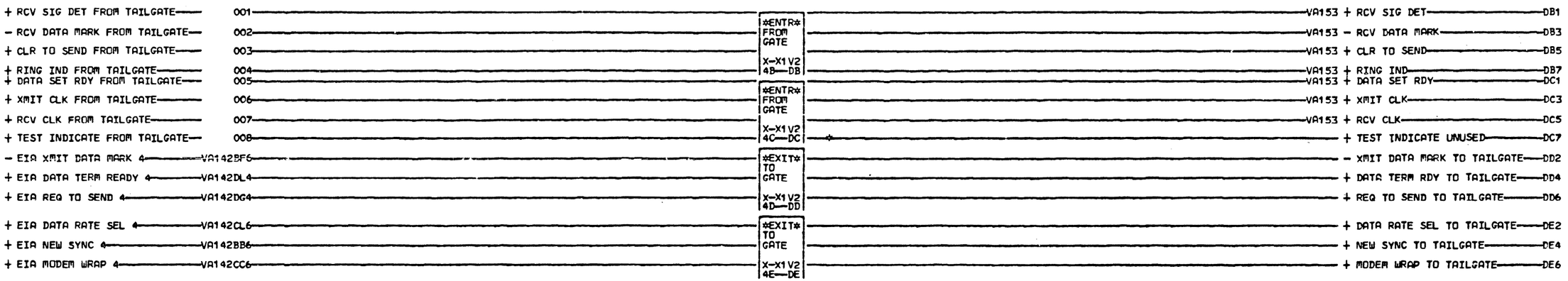






11-25-80 344401

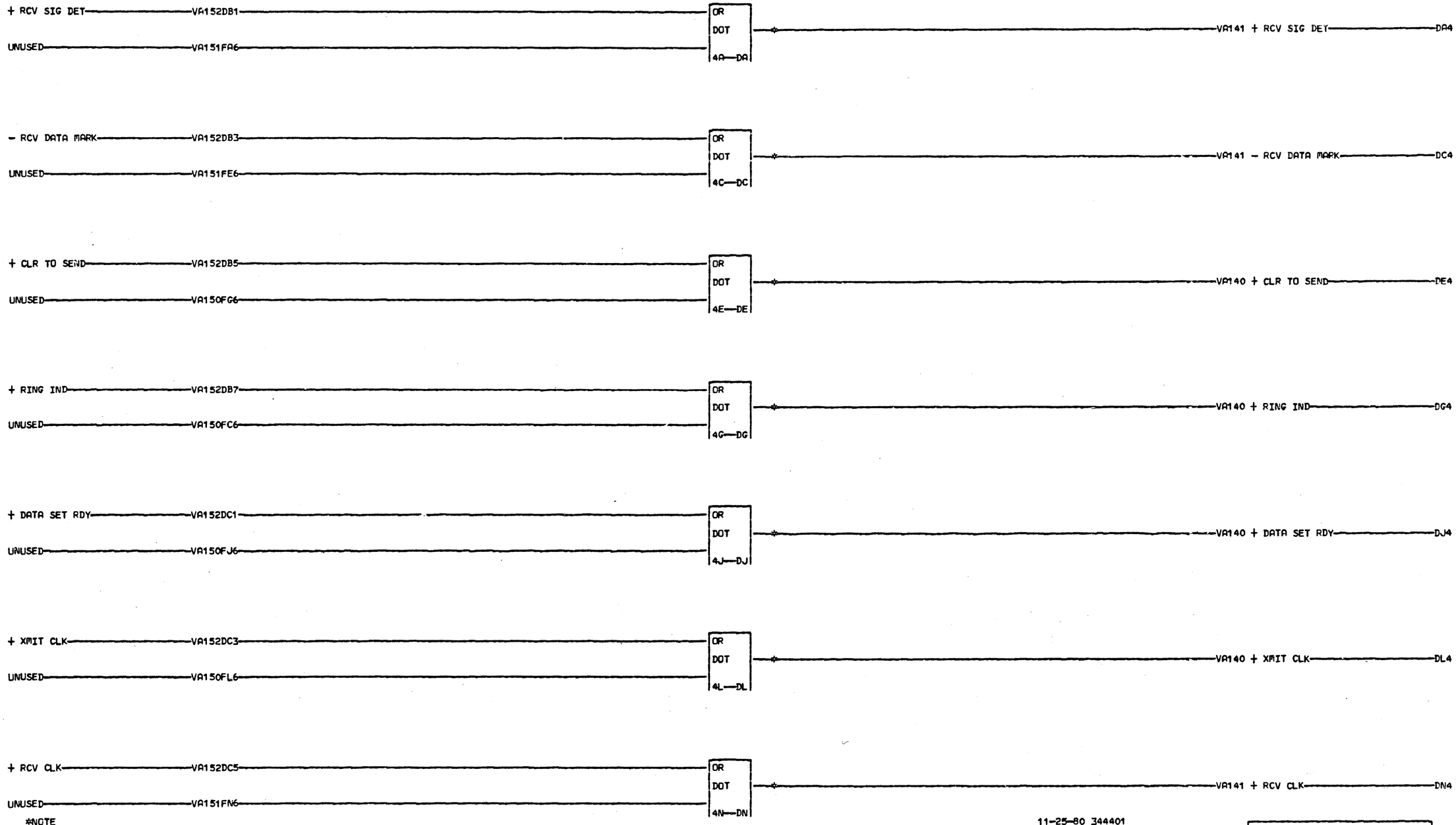
SERV WIRING				VA151
DATE	12-02-80	MACH. 3705		
LOG	965	FRAME	01	
		P.N.	4499308	
IBM CORP.	SCD BLK.		FP	000



*NOTE
*LOGIC SHOWN IS FULL FEATURE DC7 X-X1V2D13
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA000◊
5 *WHICH REFERENCES THE
2 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE INTERFACE CABLE				
DATE	12-02-80	MACH. 3705		V A 1 5 2
LOG	965	FRAME	01	
		P.N.	4499309	
IBM CORP.	SCD BLK.		DF	000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

DA4	X-X1V2D02
DC4	X-X1V2B04
DE4	X-X1V2B05
DG4	X-X1V2D05
DJ4	X-X1V2B08
DL4	X-X1V2B10
DN4	X-X1V2B13

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11-25-80 344401

DOTTED REC LINE INTERFACE

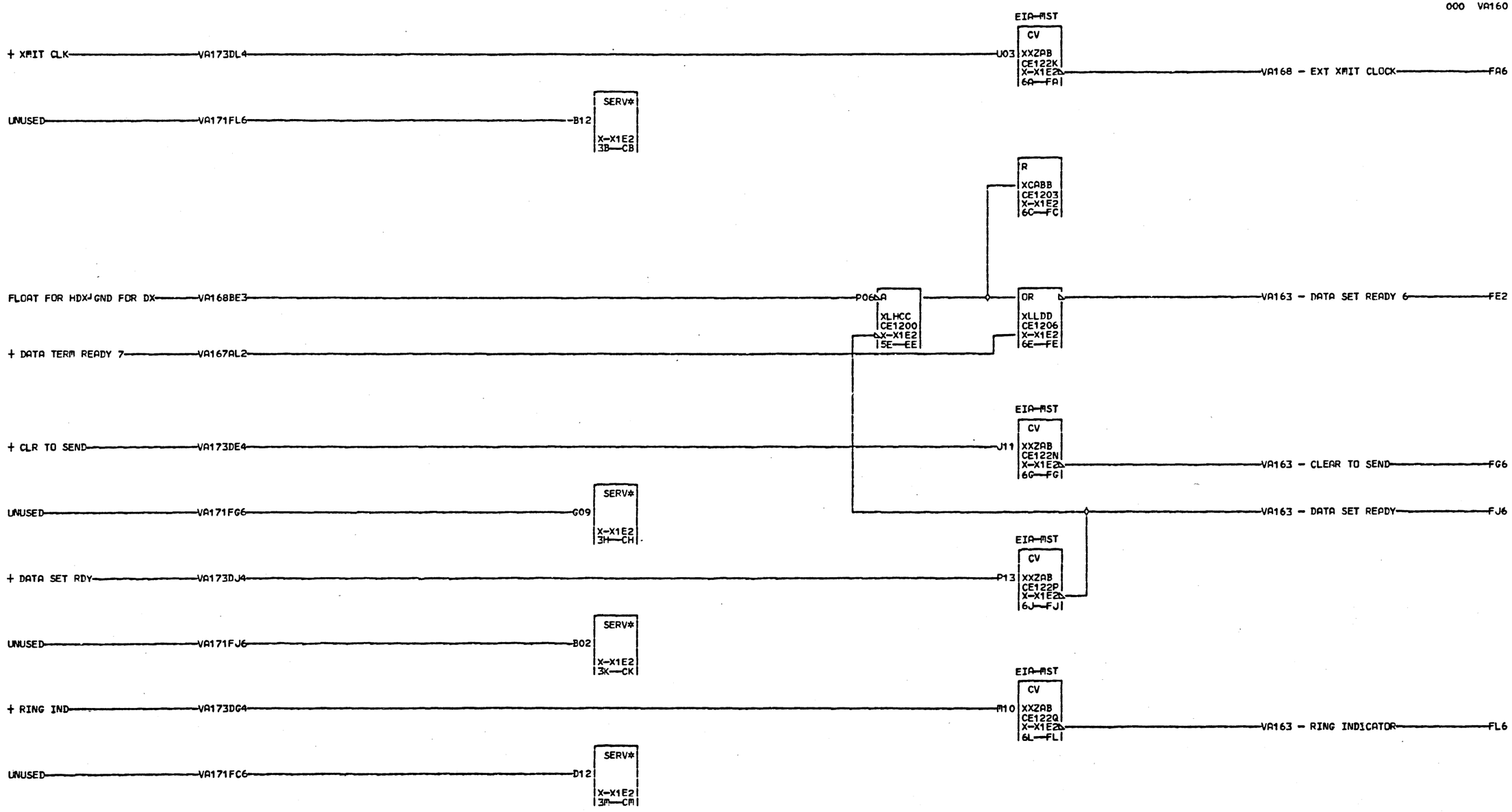
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499310

IBM CORP. SCD BLK. DP

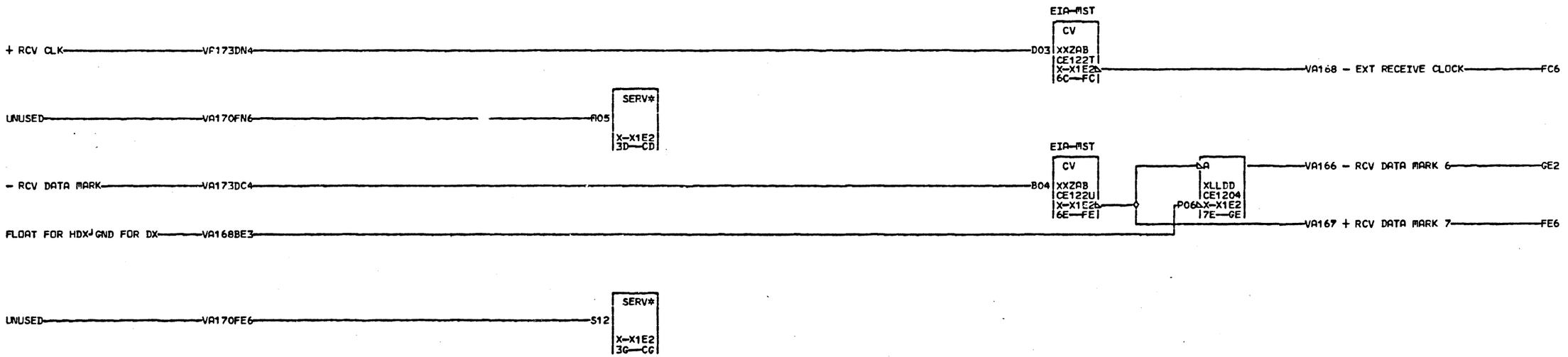
V A 1 5 3 000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

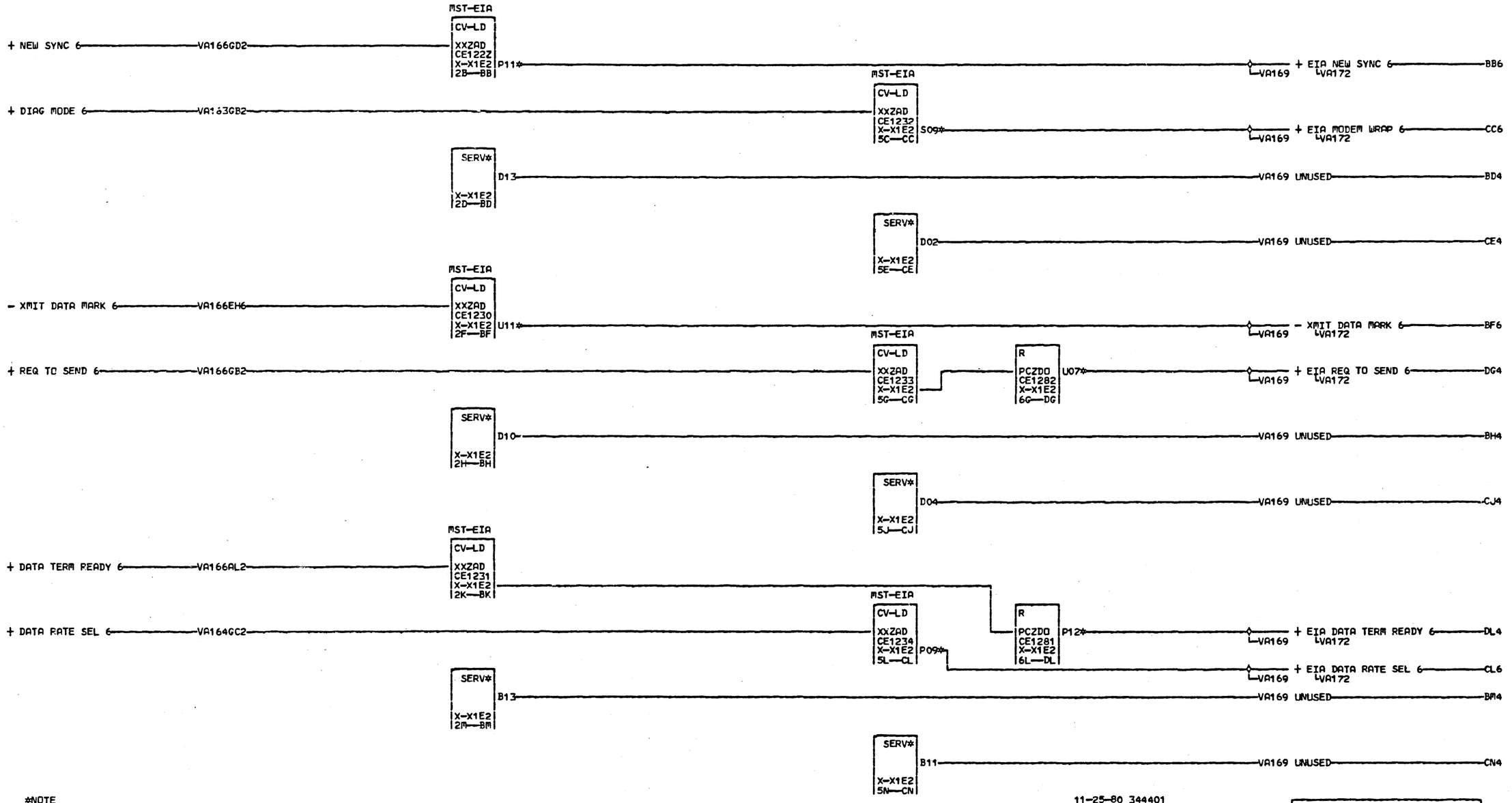
LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		VA160
LOG	965	FRAME	01	
		P.N.	4499311	000
IBM CORP.	SCD BLK.		FP	



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA0000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		V A 1 6 1
LOG	965	FRAME	01	
		P.N.	4499312	000
IBM CORP.	SCD BLK.		GF	



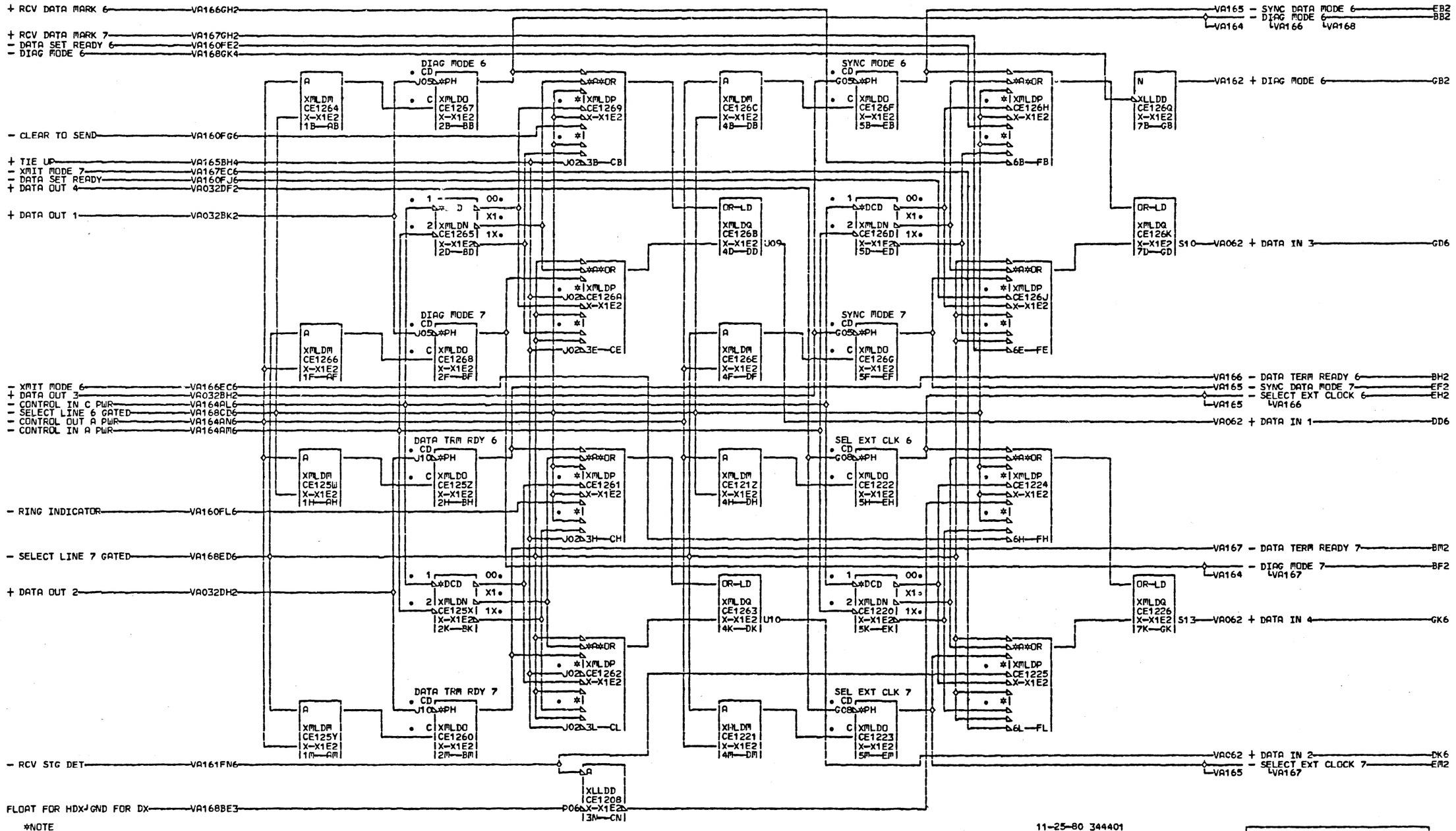
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

BB6	X-X1V4D10
BF6	X-X1V4B02
CC6	X-X1V4D11
CL6	X-X1V4D06
DG4	X-X1V4B06
DL4	X-X1V4D03

000

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		VA162
LOG	965	FRAME	01	
		P.N.	4499313	000
IBF CORP.	SCD	BLK.	GN	

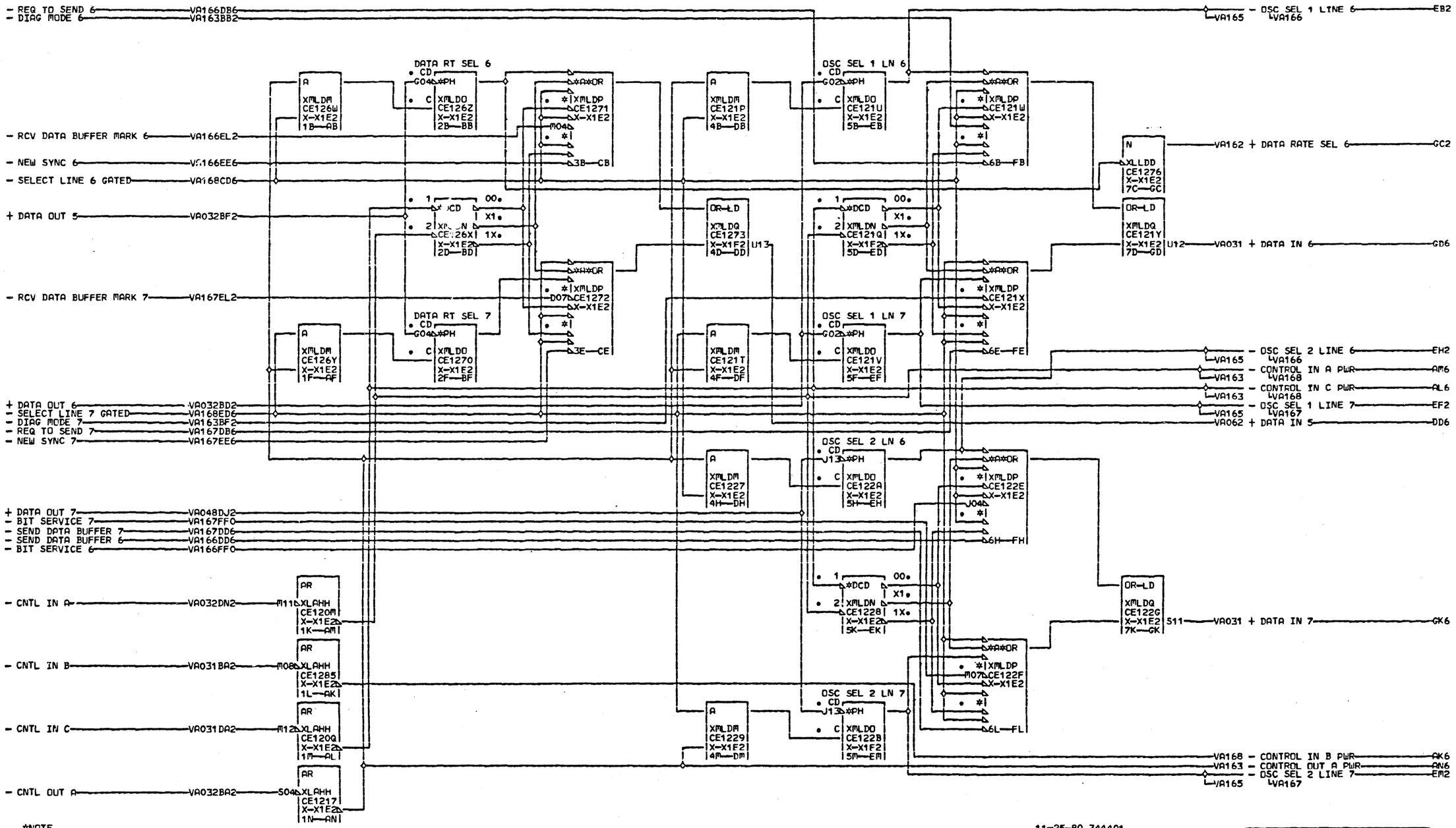


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401

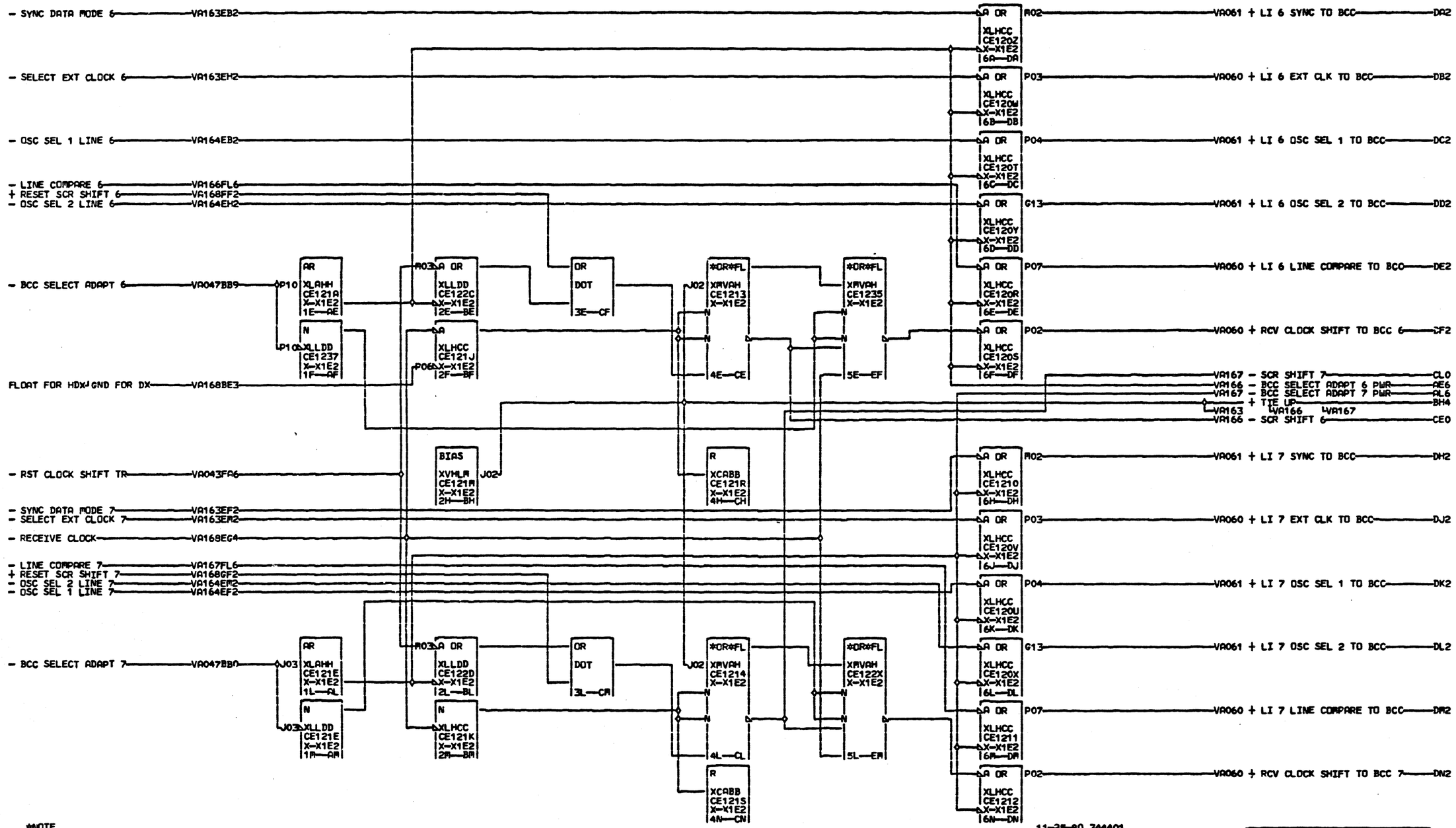
LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		VA163
LOG	965	FRAME	01	
		P.N.	4499314	
IBM CORP.	SCD BLK.		GN	000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *#1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA000◊
6 *WHICH REFERENCES THE
4 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE CONTROL CARD				V A 1 6 4
DATE 12-02-80	MACH. 3705			
LOG 965	FRAME	01		
	P.N. 4499315			000
IBM CORP. SCD	BLK.	GL		

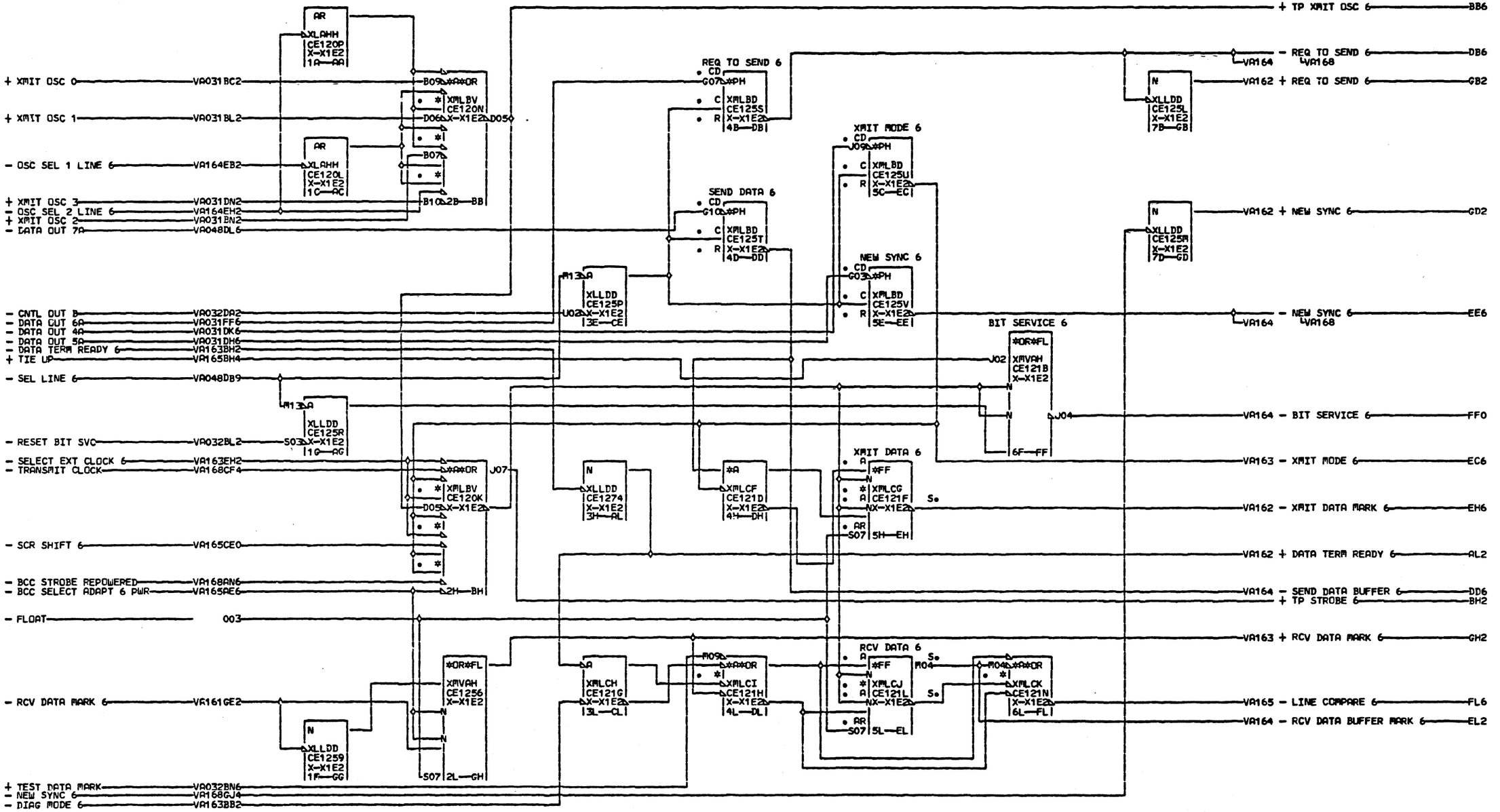


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

LINE CONTRGL CARD				VA165
DATE	04-22-81	MACH. 3705		000
LOG	237	FRAME	01	
		P.No.	4499316	
IBM CORP.	SCD BLK.		GL	

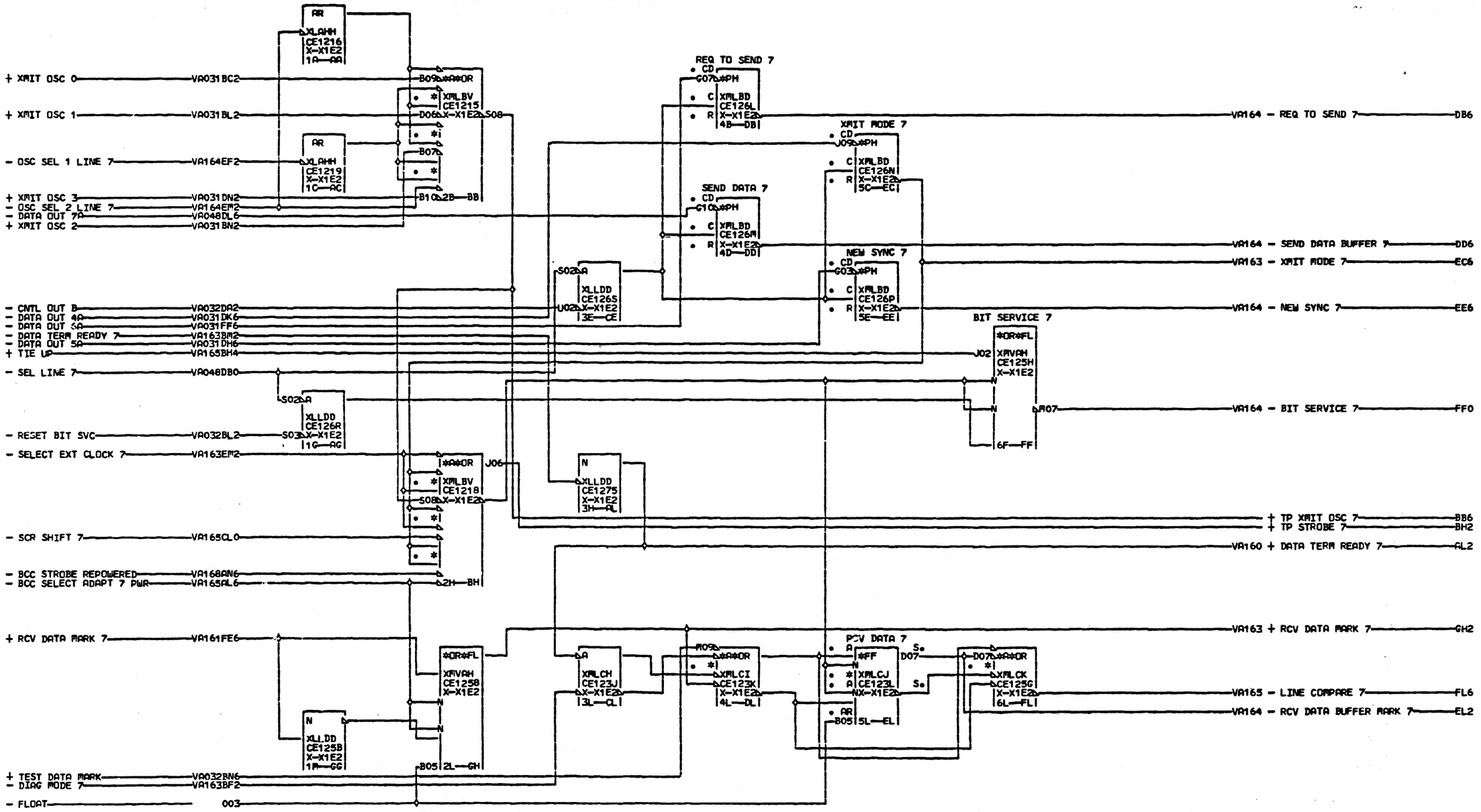


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VP0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	MACH. 3705		V A 1 6 6
LOG	237	FRAME	01	
		P.N.	4499317	
IBM CORP.	SCD BLK.		CJ	000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *#1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA000◊
6 *WHICH REFERENCES THE
7 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	MACH.	3705	VA167
LOG	228	FRAME	01	000
		P.N.	4499318	
IBM CORP.	SCI BLK.		GJ	

BOARD JMPR
JMPR
X-X1E2
2A—BE
P06

FLOAT FOR HDX/GND FOR DX — BE3
VA160 VA161 VA163 VA165

– BCC STROBE — VA050GC6 — P05 — AR XLLDD CE1238 X-X1E2 1B—AN

P10 A OR XLHCC CE123A X-X1E2 6B—FF

J03 A OR XLHCC CE1239 X-X1E2 7B—GF

– BCC STROBE REPOWERED — AN6
VA166 VA167

VA165 + RESET SCR SHIFT 7 — GF2

– SEL LINE 7 — VA048DB0
– BCC SELECT ADAPT 6 — VA047BB9
– BCC SELECT ADAPT 7 — VA047BB0

VA165 + RESET SCR SHIFT 6 — FF2
– SELECT LINE 6 GATED — CD6
VA163 VA164

– NEW SYNC 6 — VA166EE6
– CONTROL IN A PWR — VA164AM6
– CONTROL IN B PWR — VA164AK6
– SEL LINE 5 — VA048DB9

R13 *A*OR XMLAI CE1286 X-X1E2
R13 3D—CD

S02 *A*OR XMLAI CE1287 X-X1E2
S02 5D—ED

– SELECT LINE 7 GATED — ED6
VA163 VA164

CRD PIN R10
PIN NOTE 2 P4PIN CE120J X-X1E2 6E—EJ

CRD PIN V15
PIN NOTE 2 P4PIN CE122R X-X1E2 2F—BF

– EXT XMIT CLOCK — VA160FA6

– CONTROL IN C PWR — VA164AL6

CRD PIN V14
PIN NOTE 2 P4PIN CE122M X-X1E2 3G—CF

CRD PIN R08
PIN NOTE 2 P4PIN CE120G X-X1E2 6G—FH

CRD PIN R09
PIN NOTE 2 P4PIN CE120H X-X1E2 7F—GJ

VA166 – NEW SYNC 6 — GJ4

VA166 – TRANSMIT CLOCK — CF4

CRD PIN V13
PIN NOTE 2 P4PIN CE122L X-X1E2 2H—AG

UNUSED — VA070FC2 — D09

– REQ TO SEND 6 — VA166DB6

– DIAG MODE 6 — VA163BB2

CRD PIN Q10
PIN NOTE 2 P4PIN CE120D X-X1E2 6K—EK

CRD PIN P09
PIN NOTE 2 P4PIN CE123D X-X1E2 5L—GL

CRD PIN T15
PIN NOTE 2 P4PIN CE122J X-X1E2 2L—DG

– EXT RECEIVE CLOCK — VA161FC6

CRD PIN T14
PIN NOTE 2 P4PIN CE122H X-X1E2 3M—EG

CRD PIN Q08
PIN NOTE 2 P4PIN CE120B X-X1E2 6M—FL

CRD PIN Q09
PIN NOTE 2 P4PIN CE120C X-X1E2 7L—GK

VA163 – DIAG MODE 6 — GK4

VA165 – RECEIVE CLOCK — EG4

CRD PIN T13
PIN NOTE 2 P4PIN CE121C X-X1E2 2N—CH

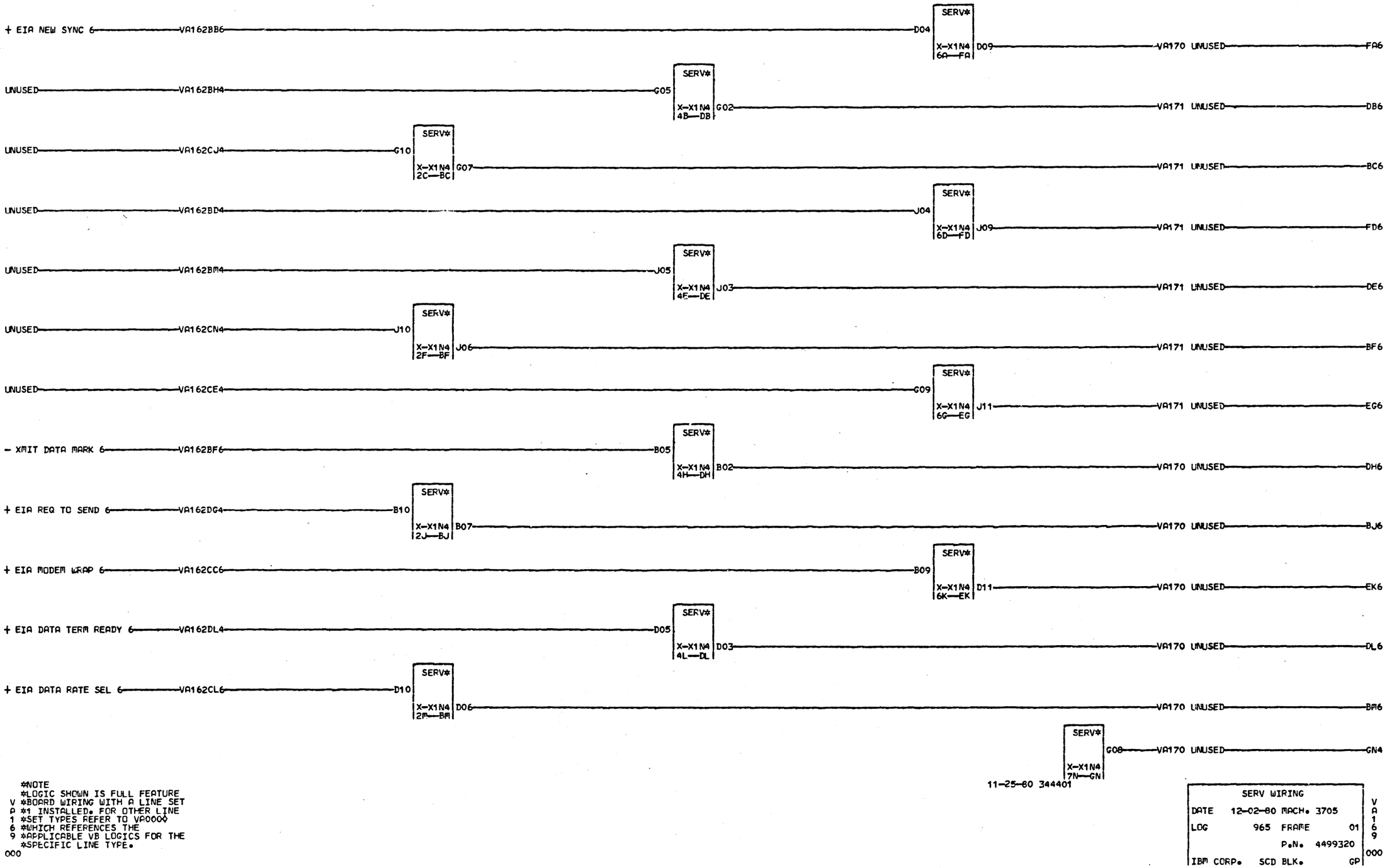
UNUSED — VA070FC6 — D11

*NOTE 1
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
*NOTE 2
*REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD
DATE 04-22-81 MACH. 3705
LOG 237 FRAME 01
P.N. 4499319
IBM CORP. SCD BLK. GM

VA168 000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

V A 1 6 9 000

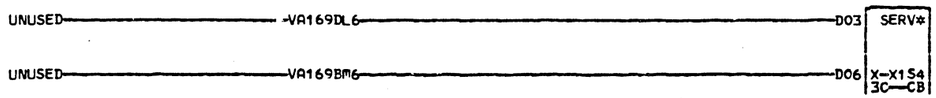
SERV WIRING

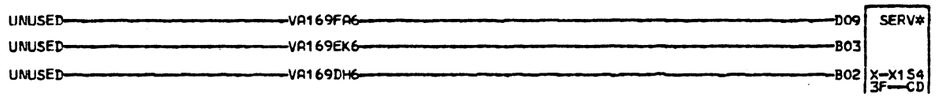
DATE 12-02-80 MACH. 3705

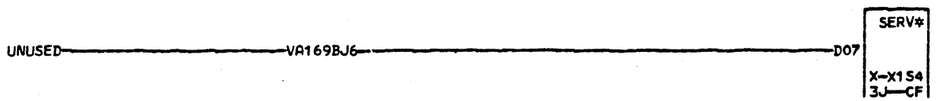
LOG 965 FRAME 01

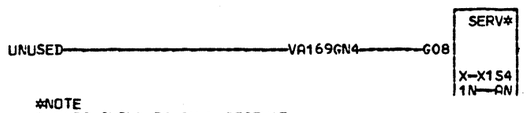
P.N. 4499320

IBM CORP. SCD BLK. GP







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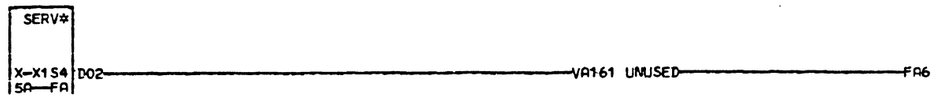
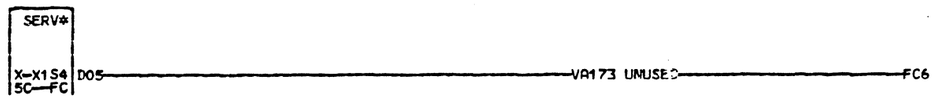
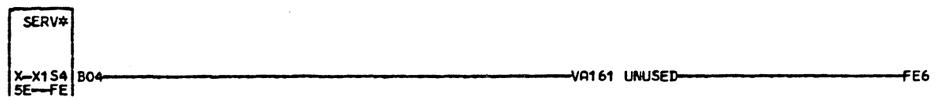
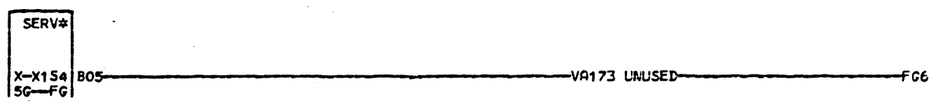
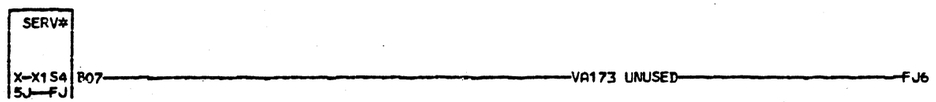
   *NOTE
   *LOGIC SHOWN IS FULL FEATURE
 V *BOARD WIRING WITH A LINE SET
 A *1 INSTALLED. FOR OTHER LINE
 1 *SET TYPES REFER TO VA0000
 7 *WHICH REFERENCES THE
 0 *APPLICABLE VB LOGICS FOR THE
   *SPECIFIC LINE TYPE.
000
```

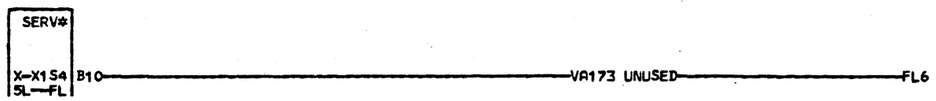


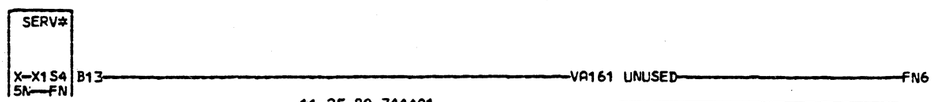






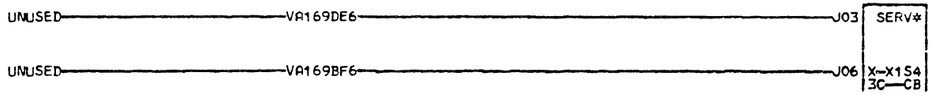


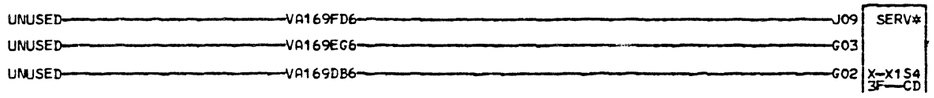




11-25-80 344401

SERV WIRING				V
DATE	12-02-80	MACH. 3705		A
LOG	965	FRAME	01	1
		P.N.	4499321	7
IBM CORP.	SCD BLK.		FP	0
				000

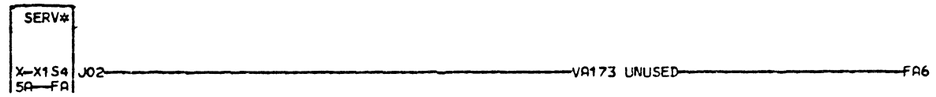


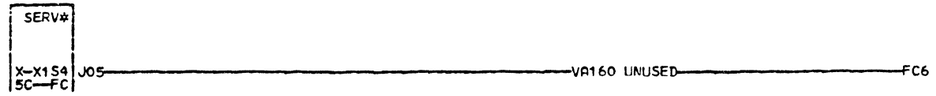


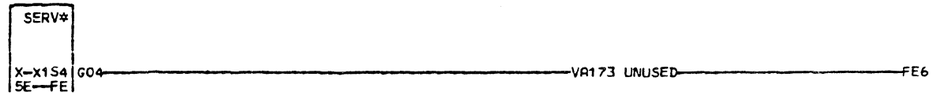
#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

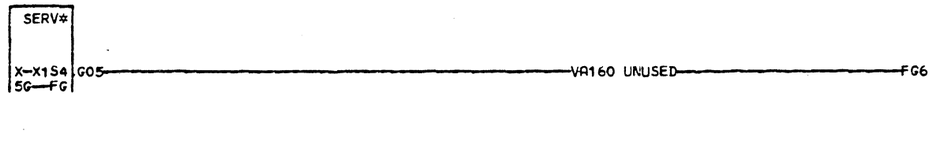
000

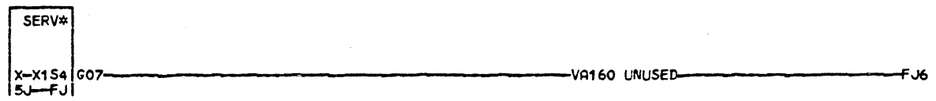
V A 1 7 1

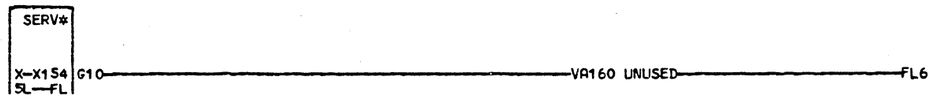


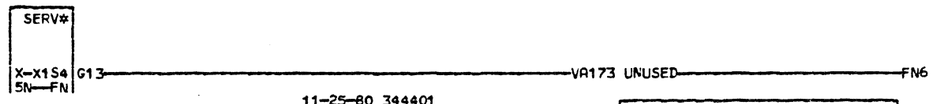












11-25-80 344401

SERV WIRING				
DATE	12-02-80	MACH.	3705	
LOC	965	FRAME	01	
		P.N.	4499322	
IBM CCRP.	SCD BLK.		FP	

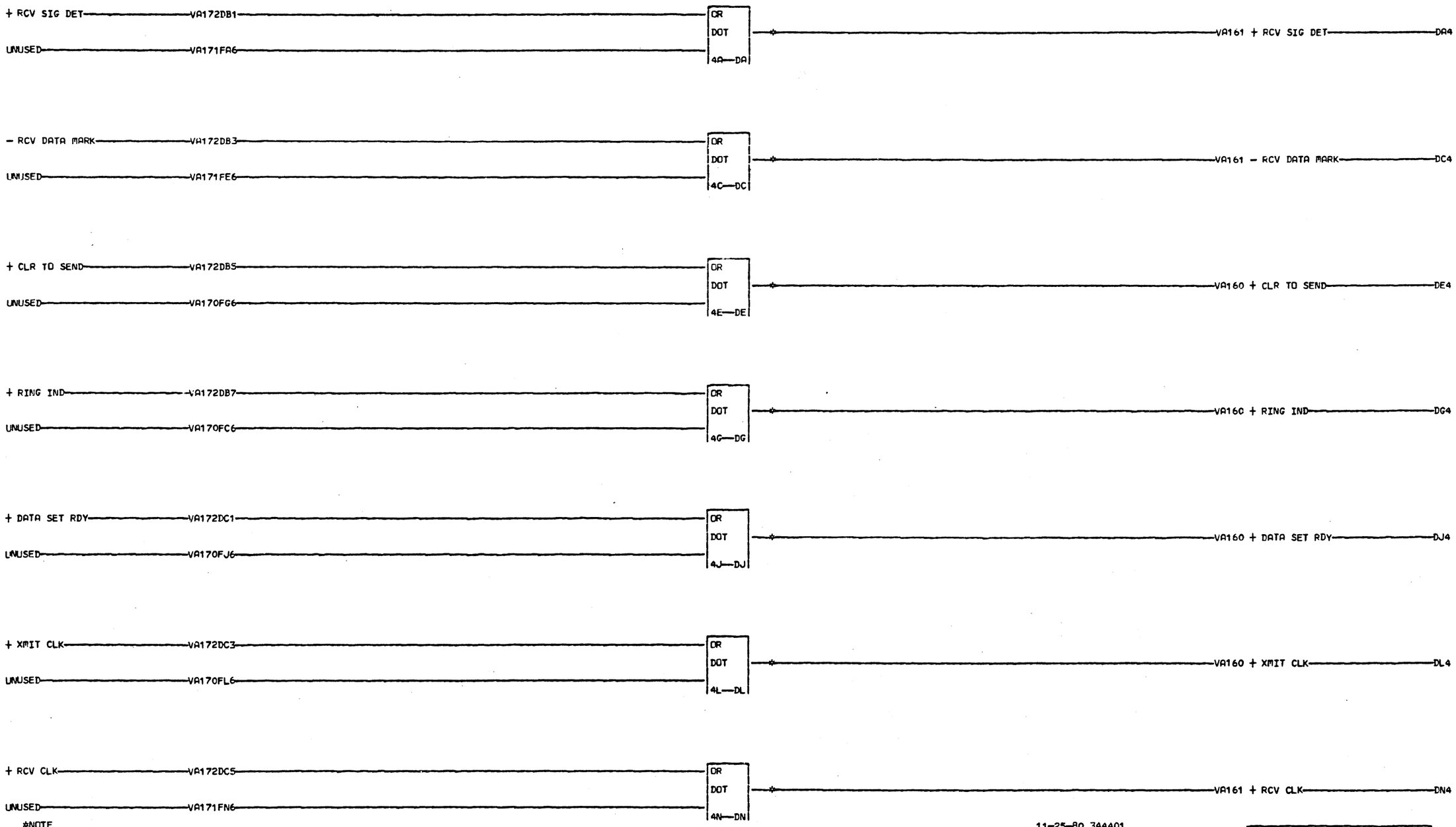
Input signal	Source	Connector	Output signal	Pin
+ RCV SIG DET FROM TAILGATE	001	*ENTR* FROM GATE X-X1V4 4B—DB	VA173 + RCV SIG DET	DB1
− RCV DATA MARK FROM TAILGATE	002		VA173 − RCV DATA MARK	DB3
+ CLR TO SEND FROM TAILGATE	003		VA173 + CLR TO SEND	DB5
+ RING IND FROM TAILGATE	004		VA173 + RING IND	DB7
+ DATA SET RDY FROM TAILGATE	005	*ENTR* FROM GATE X-X1V4 4C—DC	VA173 + DATA SET RDY	DC1
+ XMIT CLK FROM TAILGATE	006		VA173 + XMIT CLK	DC3
+ RCV CLK FROM TAILGATE	007		VA173 + RCV CLK	DC5
+ TEST INDICATE FROM TAILGATE	008		+ TEST INDICATE UNUSED	DC7
− XMIT DATA MARK 6	VA162BF6	*EXIT* TO GATE X-X1V4 4D—DD	− XMIT DATA MARK TO TAILGATE	DD2
+ EIA DATA TERM READY 6	VA162DL4		+ DATA TERM RDY TO TAILGATE	DD4
+ EIA REQ TO SEND 6	VA162DG4		+ REQ TO SEND TO TAILGATE	DD6
+ EIA DATA RATE SEL 6	VA162CL6	*EXIT* TO GATE X-X1V4 4E—DE	+ DATA RATE SEL TO TAILGATE	DE2
+ EIA NEW SYNC 6	VA162BB6		+ NEW SYNC TO TAILGATE	DE4
+ EIA MODEM WRAP 6	VA162CC6		+ MODEM WRAP TO TAILGATE	DE6

*NOTE
*LOGIC SHOWN IS FULL FEATURE DC7 X-X1V4D13
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0000
7 *WHICH REFERENCES THE
2 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE INTERFACE CABLE
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499323
IBM CORP. SCD BLK. DF

VA172
000



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000Q
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

DA4	X-X1V4D02
DC4	X-X1V4B04
DE4	X-X1V4B05
DG4	X-X1V4D05
DJ4	X-X1V4B08
DL4	X-X1V4B10
DN4	X-X1V4B13

000

11-25-80 344401

DOTTED REC LINE INTERFACE

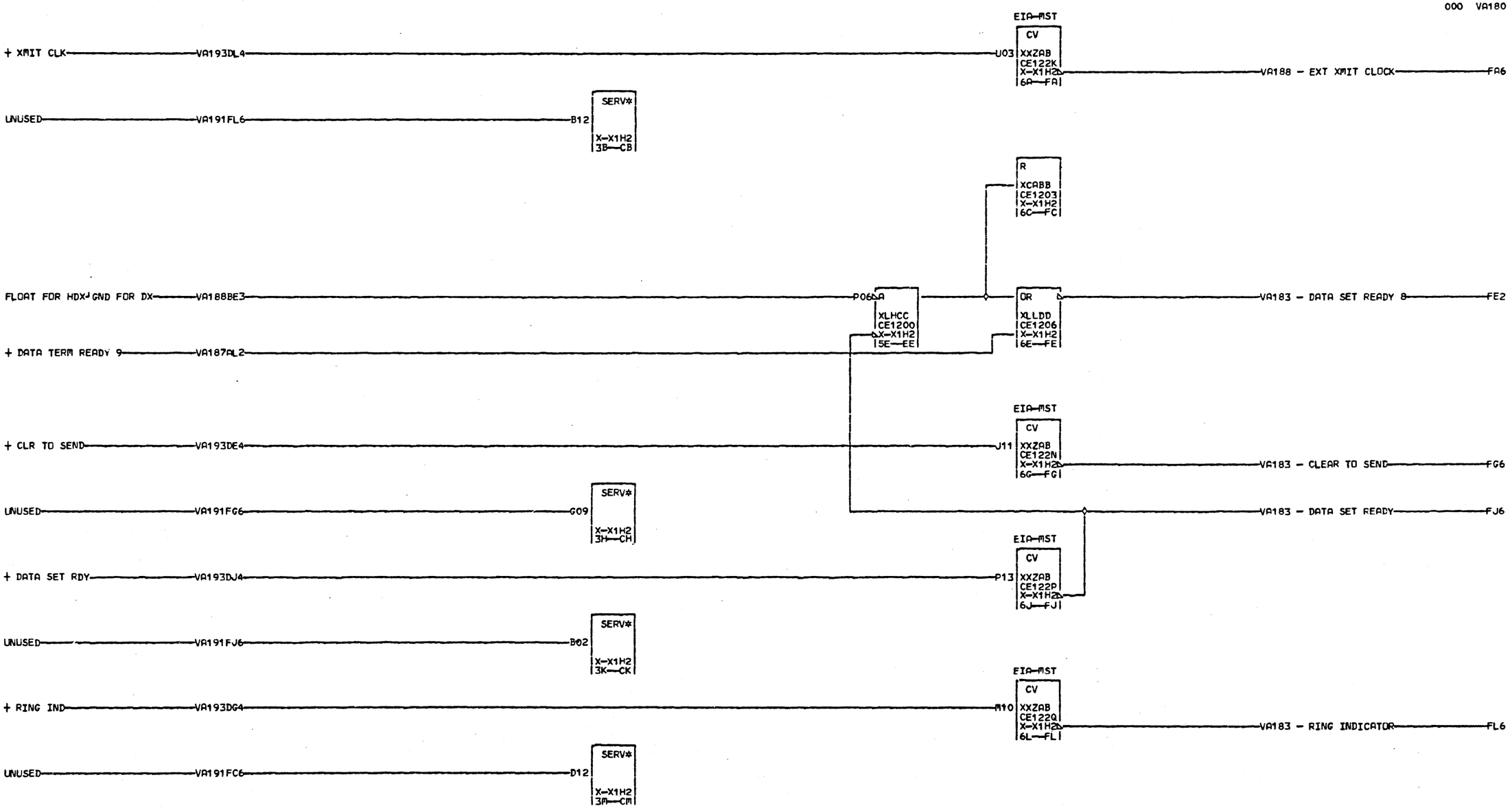
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499324

IBM CORP. SCD BLK. DP

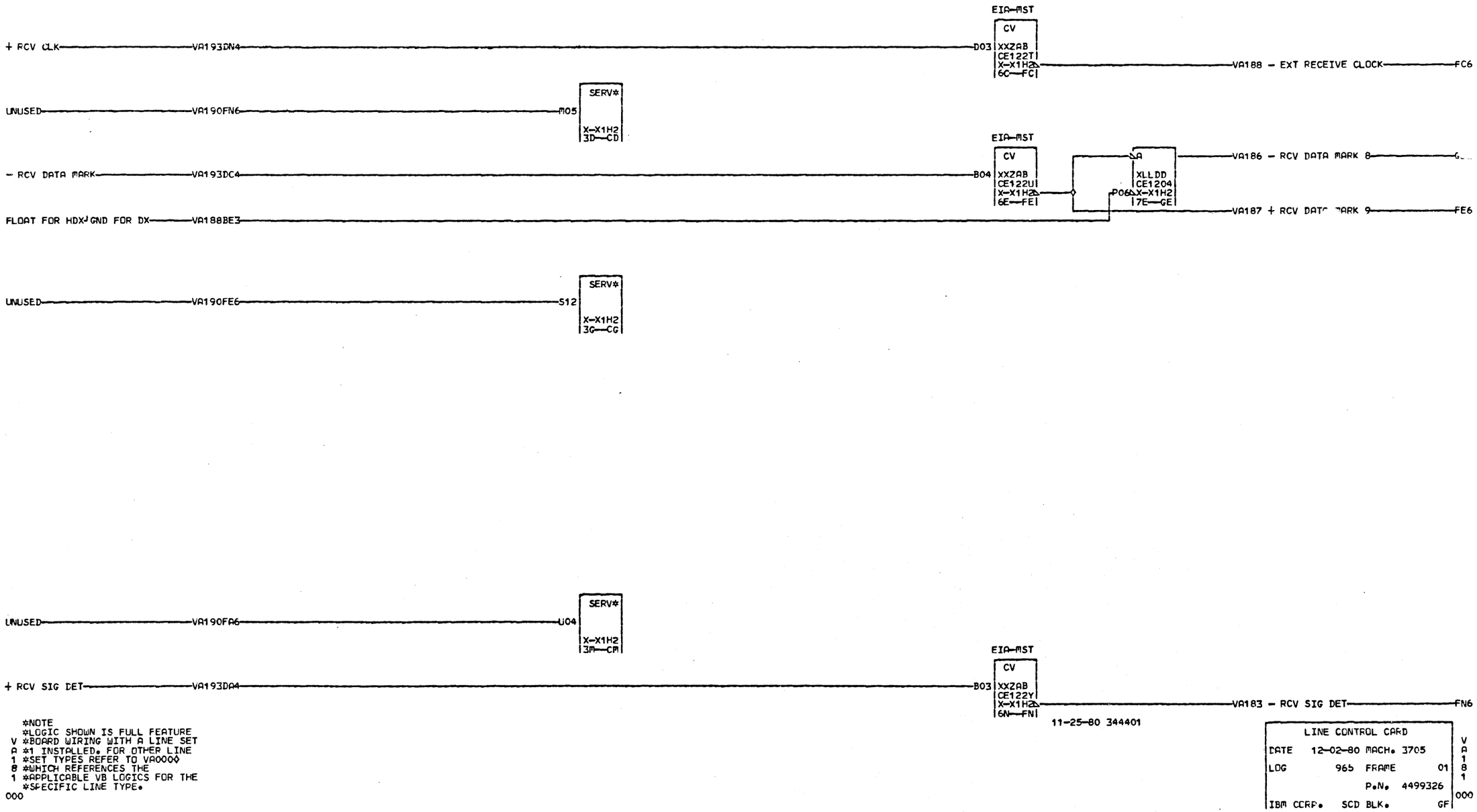
VA173 000

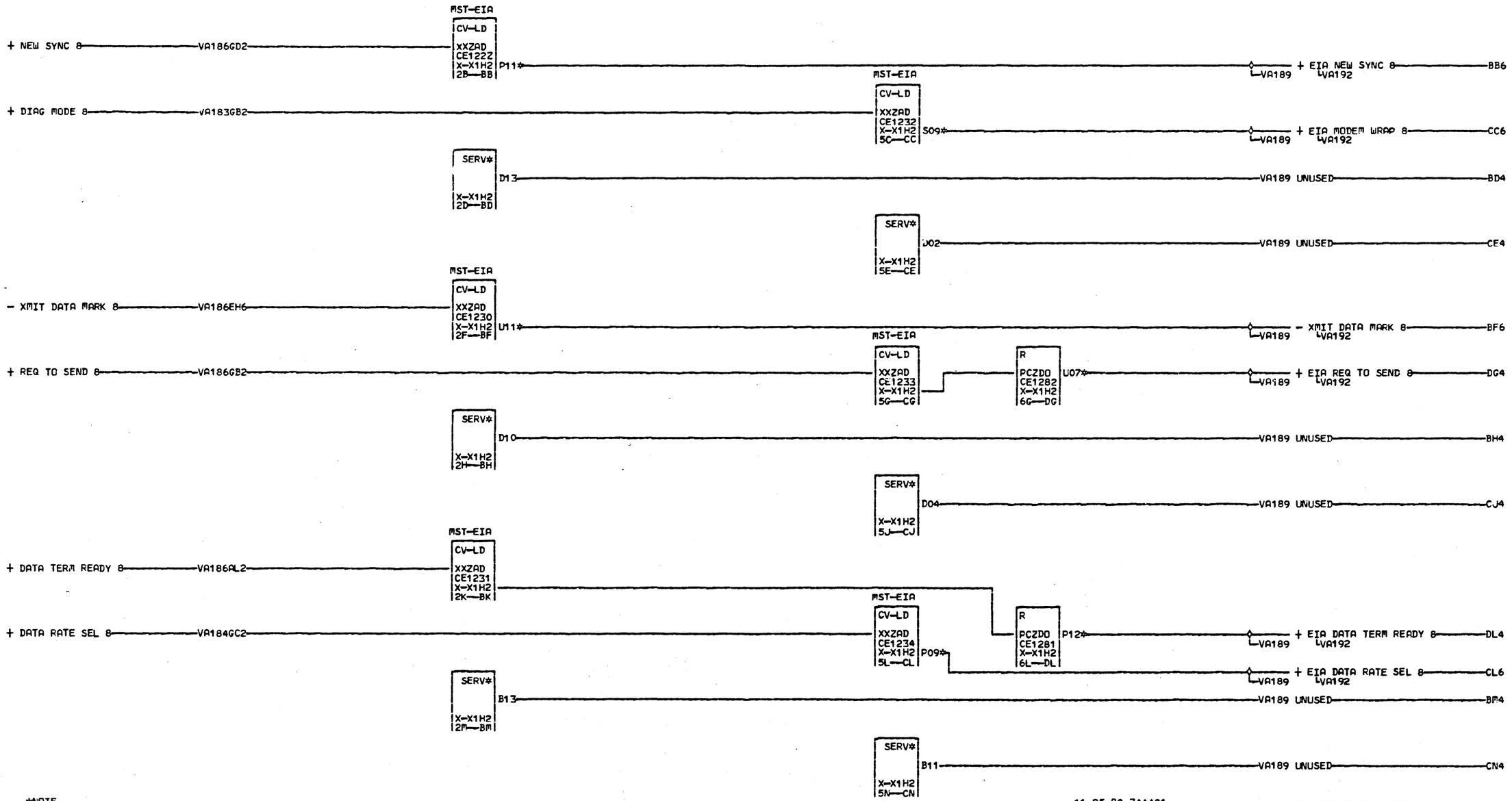


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		VA180
LOG	965	FRAME	01	
		P.N. 4499325		000
IBM CORP.	SCD BLK.		FP	


+ RCV CLK
VA193DN4
D03
EIA-MST
CV
XXZAB
CE122T
X-X1H2
6C-FC
VA188 - EXT RECEIVE CLOCK
FC6
UNUSED
VA190FN6
M05
SERV*
X-X1H2
3D-CD
- RCV DATA MARK
VA193DC4
B04
EIA-MST
CV
XXZAB
CE122U
X-X1H2
6E-FE
A
XLLDD
CE1204
X-X1H2
7E-GE
P06
VA186 - RCV DATA MARK 8
G
FLOAT FOR HDX/GND FOR DX
VA188BE3
VA187 + RCV DATA MARK 9
FE6
UNUSED
VA190FE6
S12
SERV*
X-X1H2
3G-CG
UNUSED
VA190FA6
U04
SERV*
X-X1H2
3M-CM
+ RCV SIG DET
VA193DA4
B03
EIA-MST
CV
XX2AB
CE122Y
X-X1H2
6N-FN
VA183 - RCV SIG DET
FN6
11-25-80 344401
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000
LINE CONTROL CARD
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499326
IBM CORP. SCD BLK. GF
VA181 000



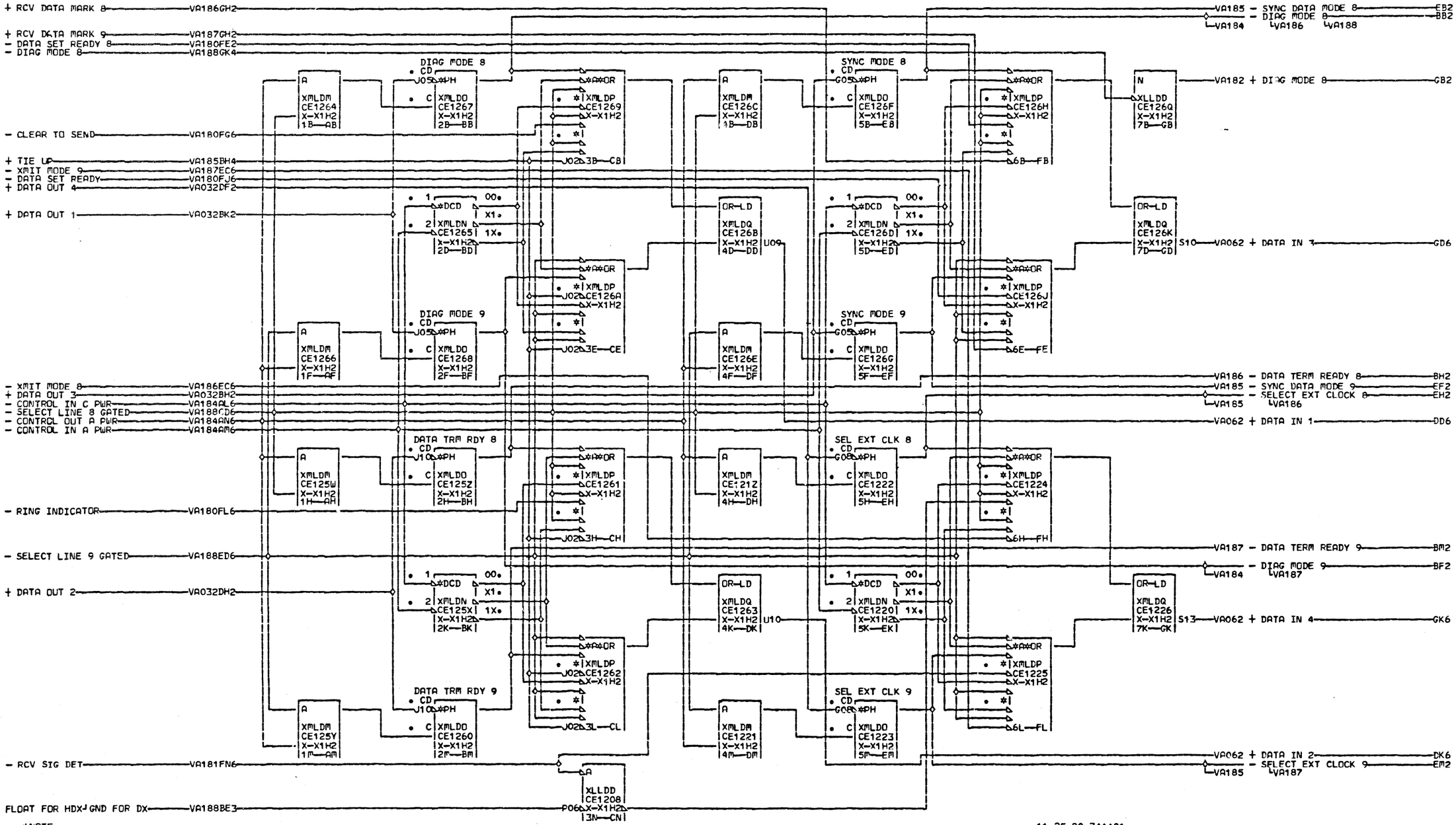
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

BB6 X-X1U3D10
BF6 X-X1U3B02
CC6 X-X1U3D11
CL6 X-X1U3D06
DG4 X-X1U3B06
DL4 X-X1U3D03

000

11-25-80 344401

LINE CONTROL CARD					
DATE	12-02-80	MACH.	3705		V A 1 8 2
LOG	965	FRAME		01	
		P.N.	4499327		
IBM CORP.	SCD	BLK.		GN	000



11-25-80 344401

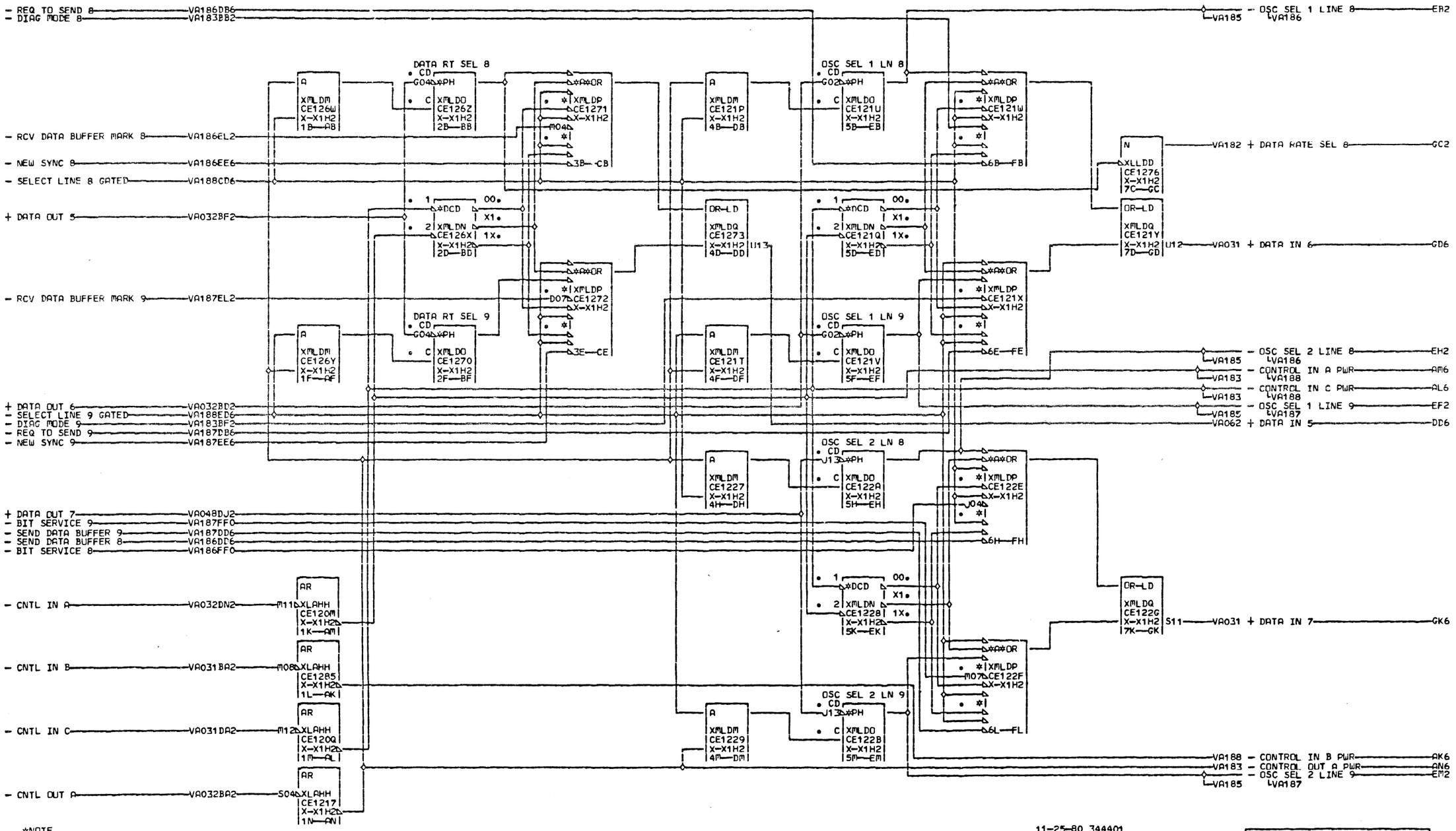
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

LINE CONTROL CARD			
DATE 12-02-80	MACH. 3705		
LOG 965	FRAME	01	
	P.N. 4499328		
IBM CORP.	SCD BLK.	GN	

VA183 000

000 VA184

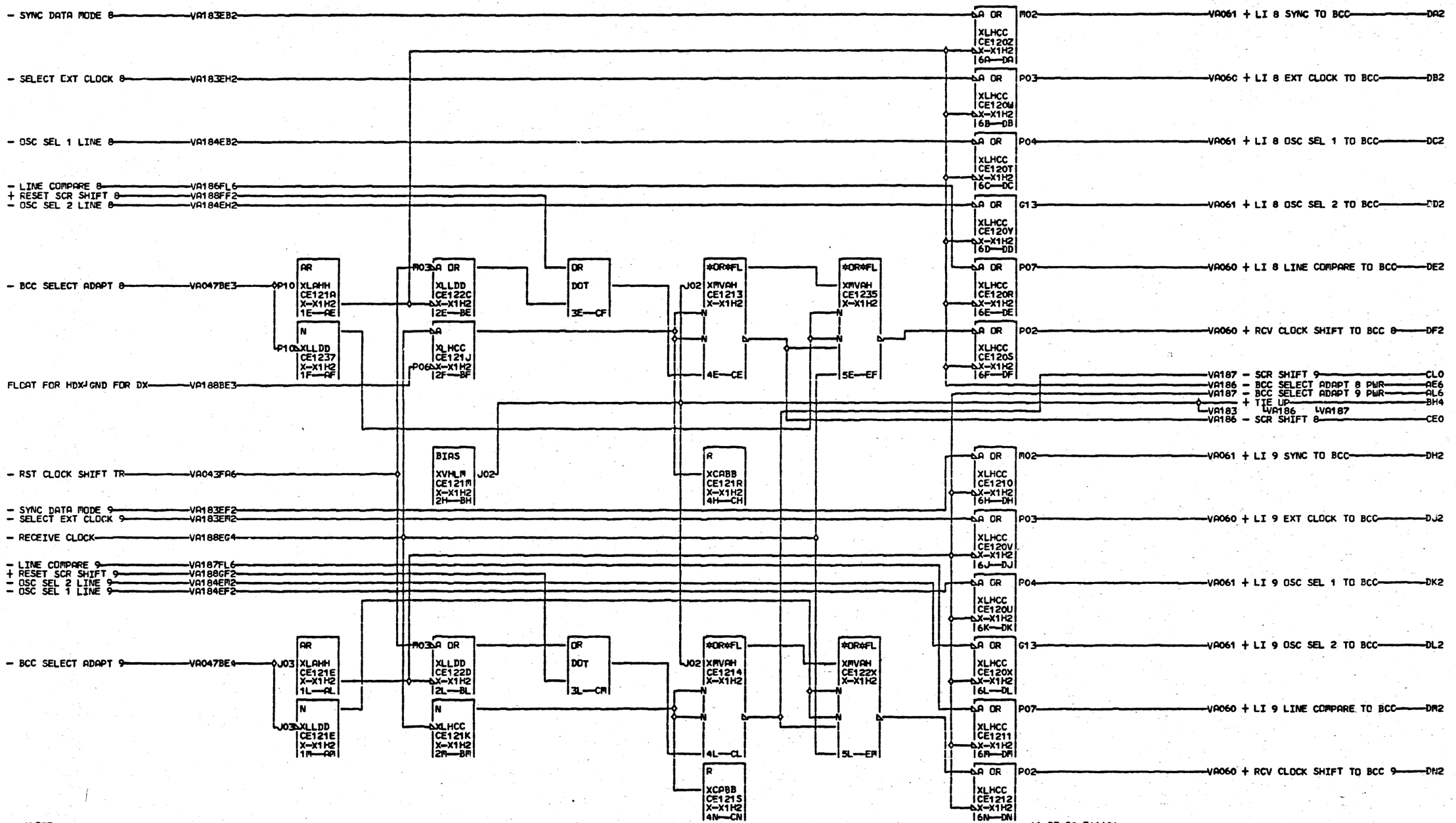


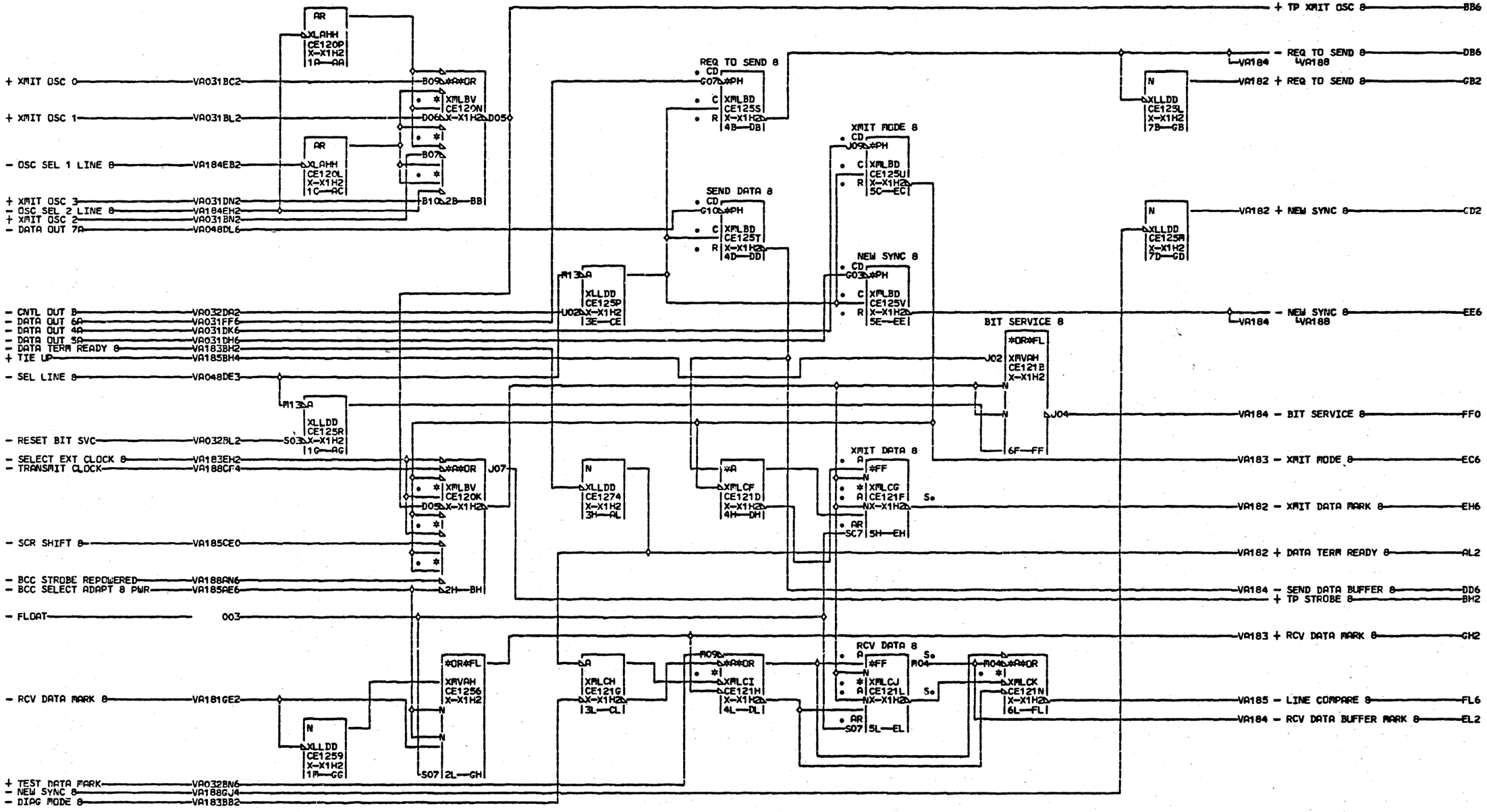
*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0GOO
8 *WHICH REFERENCES THE
4 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401

LINE CONTROL CARD				V A 1 8 4
DATE	12-02-80	MACH. 3705		
LOG	965	FRAME	01	
		P.N.	4499329	000
IBM CORP.	SCD	BLK.	GL	


- SYNC DATA MODE 8 VA183EB2
- SELECT EXT CLOCK 8 VA183EH2
- OSC SEL 1 LINE 8 VA184EB2
- LINE COMPARE 8 VA186FL6
+ RESET SCR SHIFT 8 VA188FF2
- OSC SEL 2 LINE 8 VA184EH2
- BCC SELECT ADAPT 8 VA047BE3
FLOAT FOR HDX/GND FOR DX VA188BE3
- RST CLOCK SHIFT TR VA043FA6
- SYNC DATA MODE 9 VA183EF2
- SELECT EXT CLOCK 9 VA183EM2
- RECEIVE CLOCK VA188EG4
- LINE COMPARE 9 VA187FL6
+ RESET SCR SHIFT 9 VA188GF2
- OSC SEL 2 LINE 9 VA184EM2
- OSC SEL 1 LINE 9 VA184EF2
- BCC SELECT ADAPT 9 VA047BE4
VA061 + LI 8 SYNC TO BCC DA2
VA060 + LI 8 EXT CLOCK TO BCC DB2
VA061 + LI 8 OSC SEL 1 TO BCC DC2
VA061 + LI 8 OSC SEL 2 TO BCC DD2
VA060 + LI 8 LINE COMPARE TO BCC DE2
VA060 + RCV CLOCK SHIFT TO BCC 8 DF2
VA187 - SCR SHIFT 9 CL0
VA186 - BCC SELECT ADAPT 8 PWR AE6
VA187 - BCC SELECT ADAPT 9 PWR AL6
+ TIE UP BH4
VA183 VA186 VA187
VA186 - SCR SHIFT 8 CE0
VA061 + LI 9 SYNC TO BCC DH2
VA060 + LI 9 EXT CLOCK TO BCC DJ2
VA061 + LI 9 OSC SEL 1 TO BCC DK2
VA061 + LI 9 OSC SEL 2 TO BCC DL2
VA060 + LI 9 LINE COMPARE TO BCC DM2
VA060 + RCV CLOCK SHIFT TO BCC 9 DN2
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000
11-25-80 344401
04-13-81 344852
LINE CONTROL CARD
DATE 04-22-81 MACH. 3705
LOG 237 FRAME 01
P.N. 4499330
IBM CORP. SCD BLK. GL
VA185
000

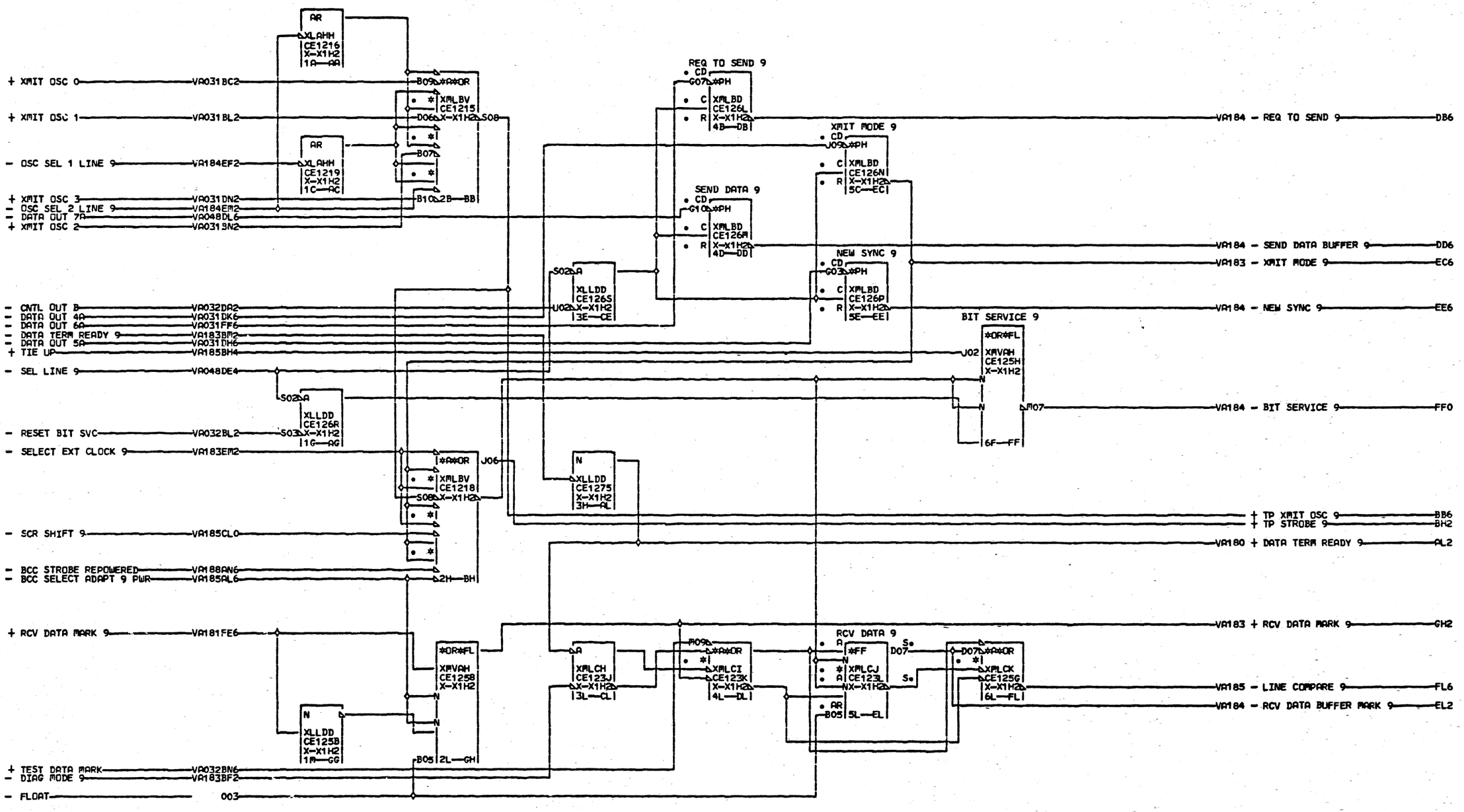


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

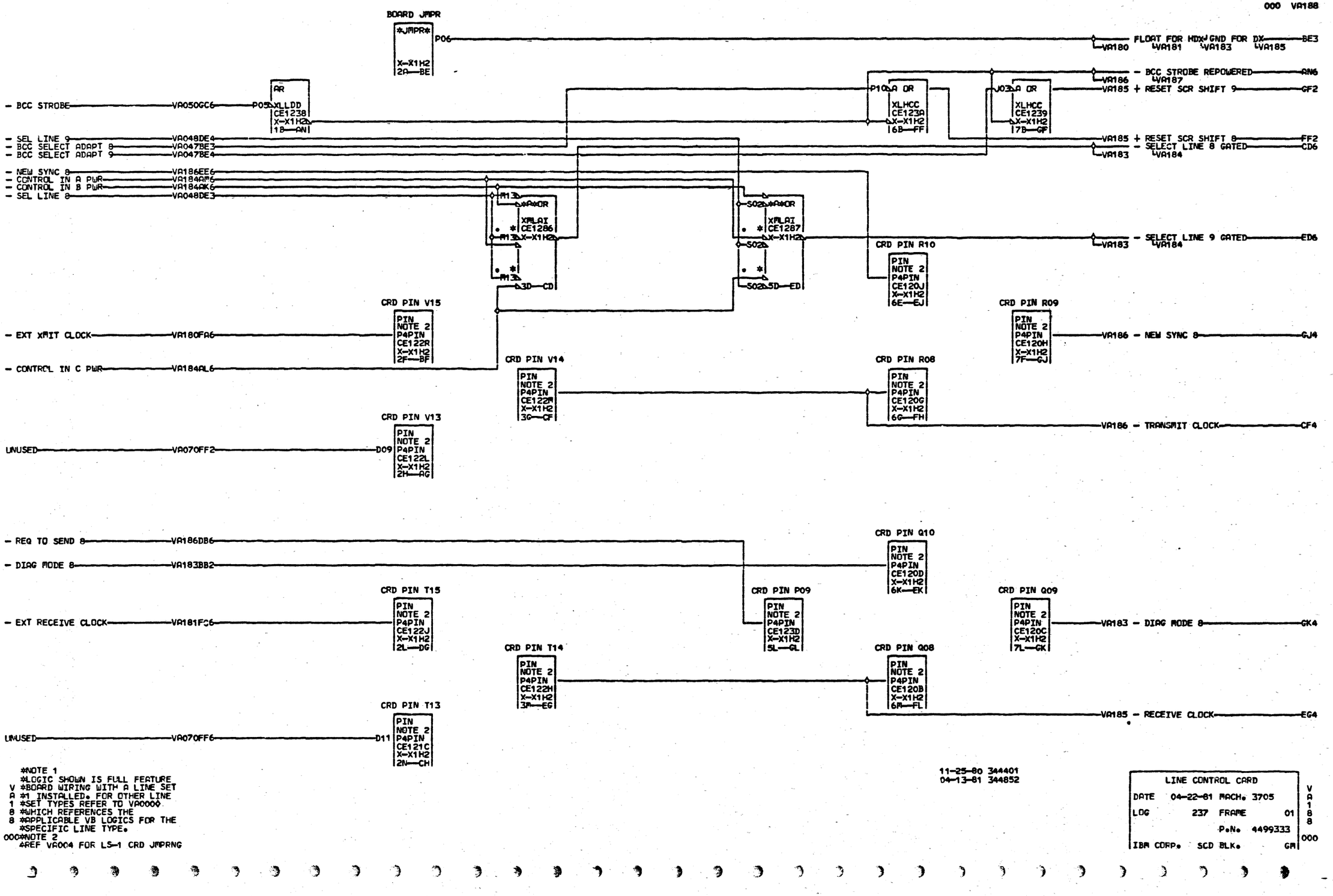
LINE CONTROL CARD					
DATE 04-22-81 MACH. 3705					V A 1 8 6
LOG 228		FRAME	01		
		P.N. 4499331			
IBM CORP.	SCD BLK.		GJ		000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
1 *SET TYPES REFER TO VA0000
8 *WHICH REFERENCES THE
7 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401
04-13-81 344852

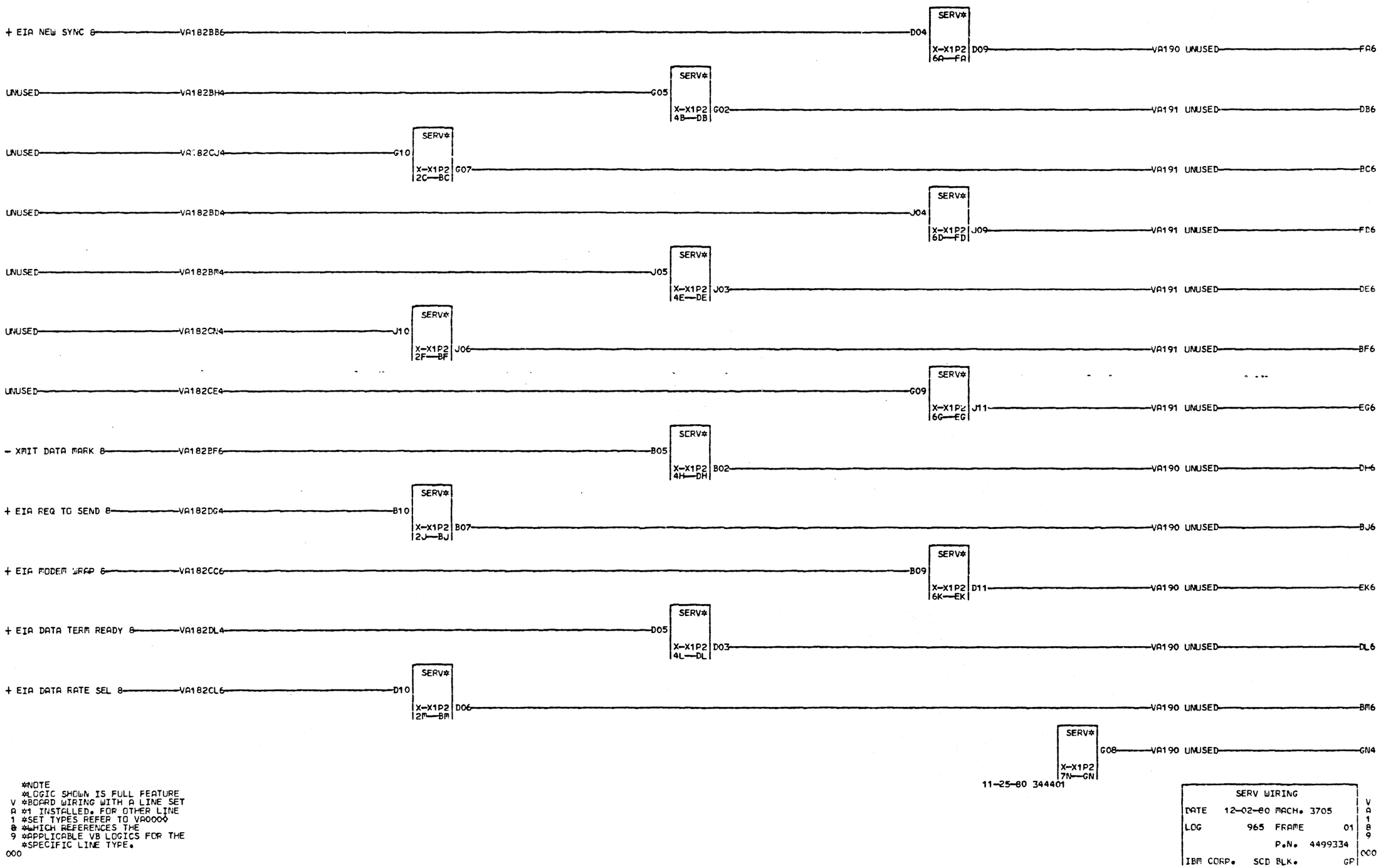
LINE CONTROL CARD			
DATE 04-22-81	MACH. 3705		VA187
LOG 228	FRAME	01	
	P.N. 4499332		000
IBM CORP.	SCD BLK.	GJ	



*NOTE 1
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000*NOTE 2
*REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				VA188
DATE	04-22-81	MACH. 3705		
LOG	237	FRAME	01	
		P.N.	4499333	000
IBM CORP.	SCD BLK.		GA	



*NOTE
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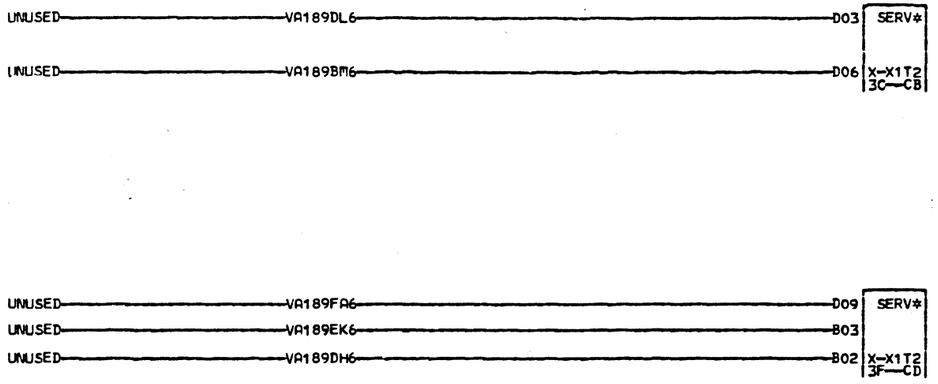
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

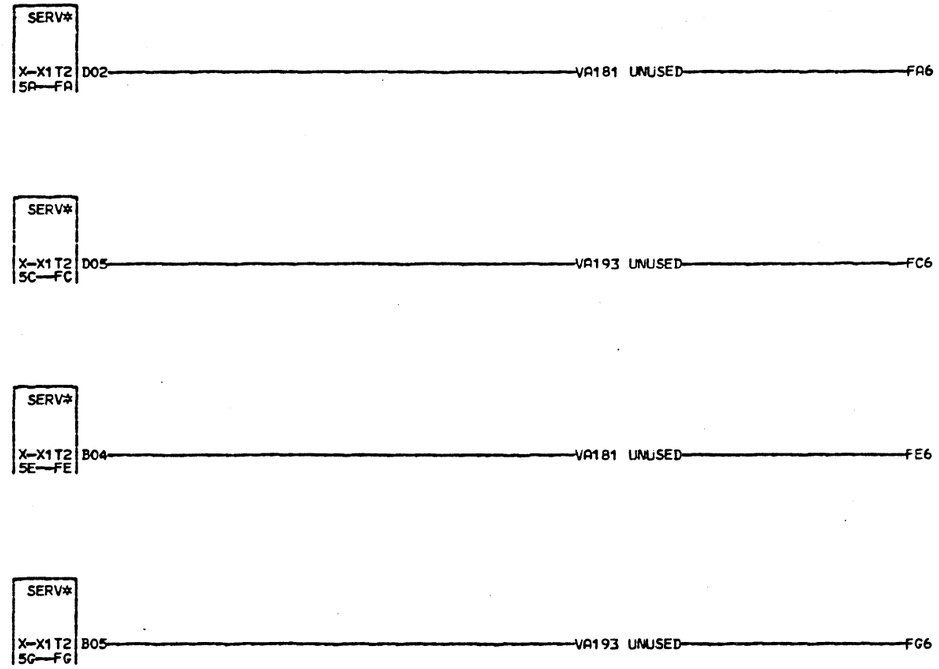
SERV WIRING					
DATE	12-02-80	MACH.	3705		VA189
LOG	965	FRAME	01		
		P.N.	4499334		000
IBM CORP.	SCD BLK.		GP		



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

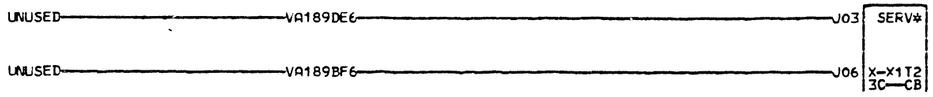
V A 1 9 0

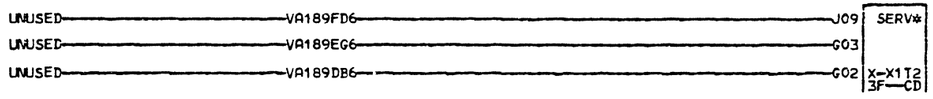
000

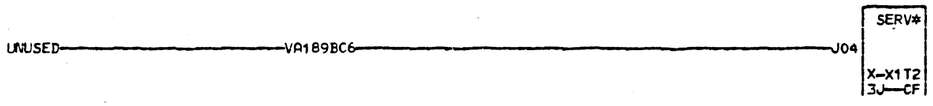


11-25-80 344401

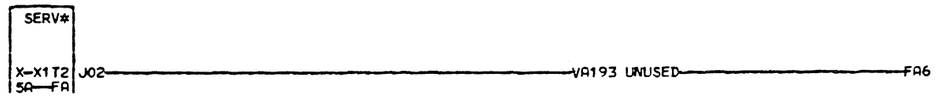
SERV WIRING	
DATE 12-02-80 MACH. 3705	
LOG 965 FRAME 01	
P.N. 4499335	
IBM CORP. SCD BLK. FP	

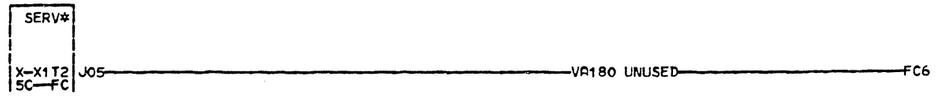


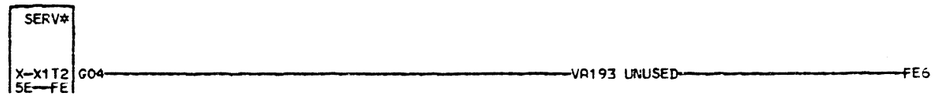


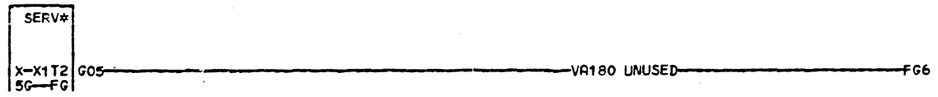


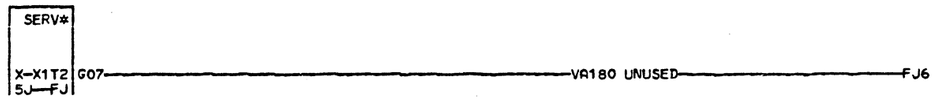
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

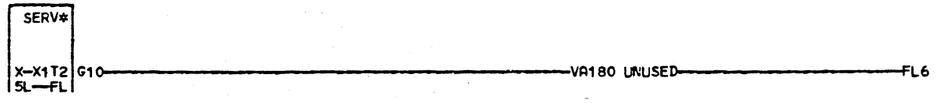


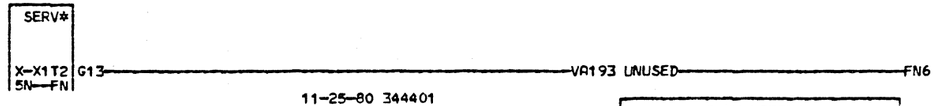






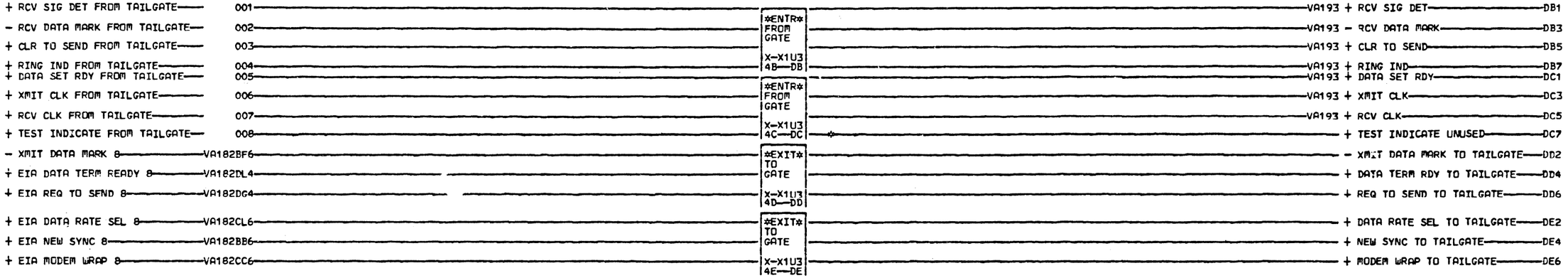






11-25-80 344401

SERV WIRING				V
DATE	12-02-80	MACH. 3705		A 1
LOG	965	FRAME	01	9 1
		P.N.	4499336	000
IBM CORP.	SCD BLK.		FP	



*NOTE
*LOGIC SHOWN IS FULL FEATURE DC7 X-X1U3D13
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401

LINE INTERFACE CABLE

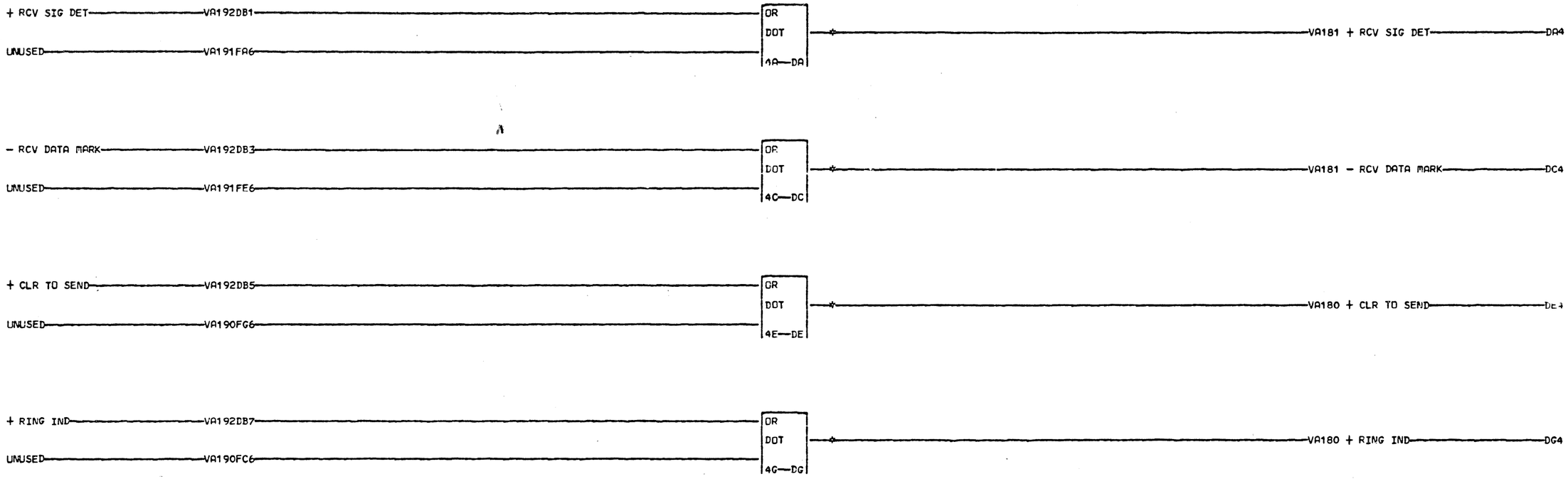
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499337

IBM CORP. SCD BLK. DF

VA192 000



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000Ø
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

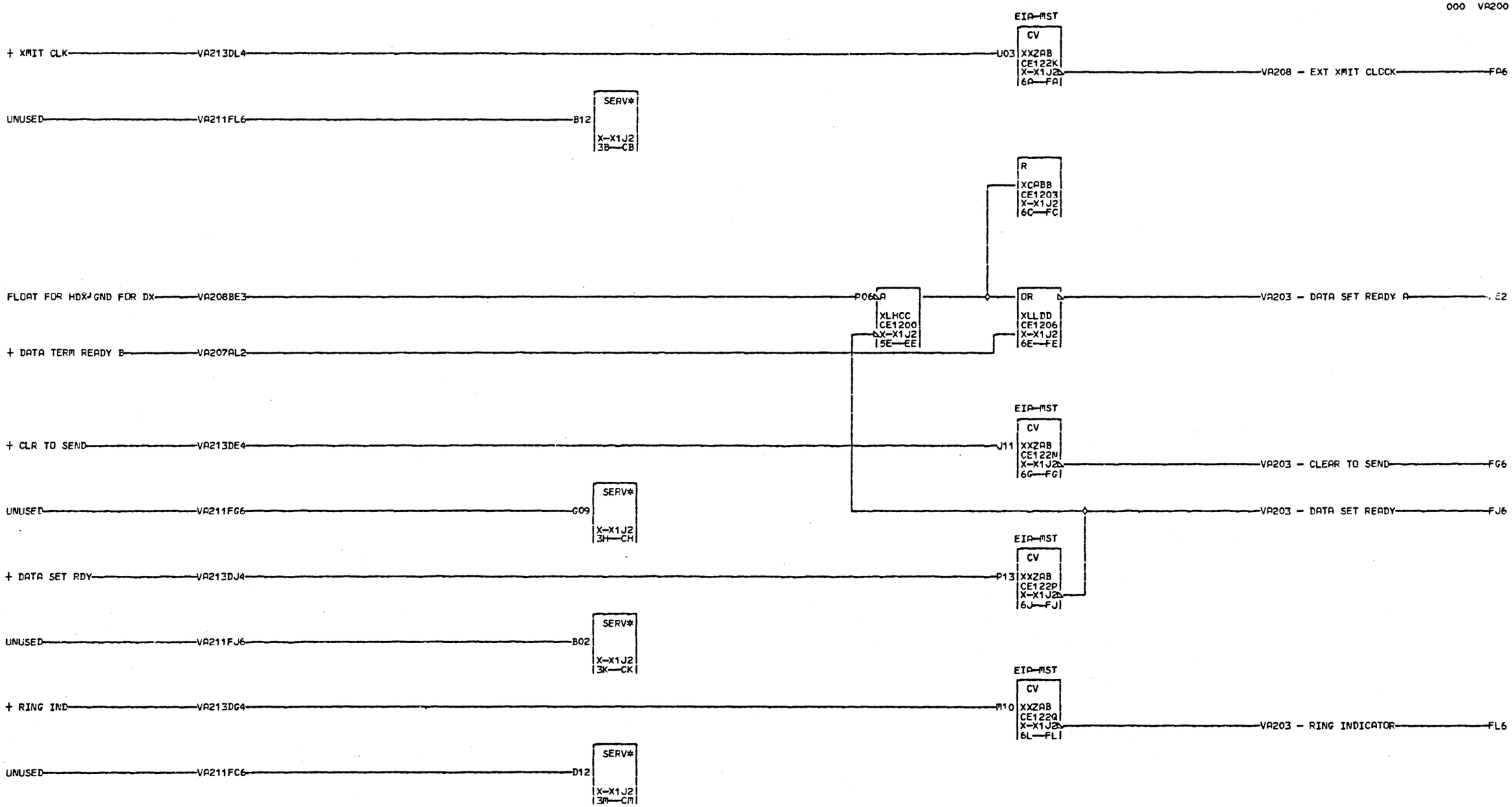
DA4 X-X1U3D02
DC4 X-X1U3B04
DE4 X-X1U3B05
DG4 X-X1U3D05
DJ4 X-X1U3B08
DL4 X-X1U3B10
DN4 X-X1U3B13

000

11-25-80 344401

DOTTED REC LINE INTERFACE
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499338
IBM CORP. SCD BLK. DP

VA1193000

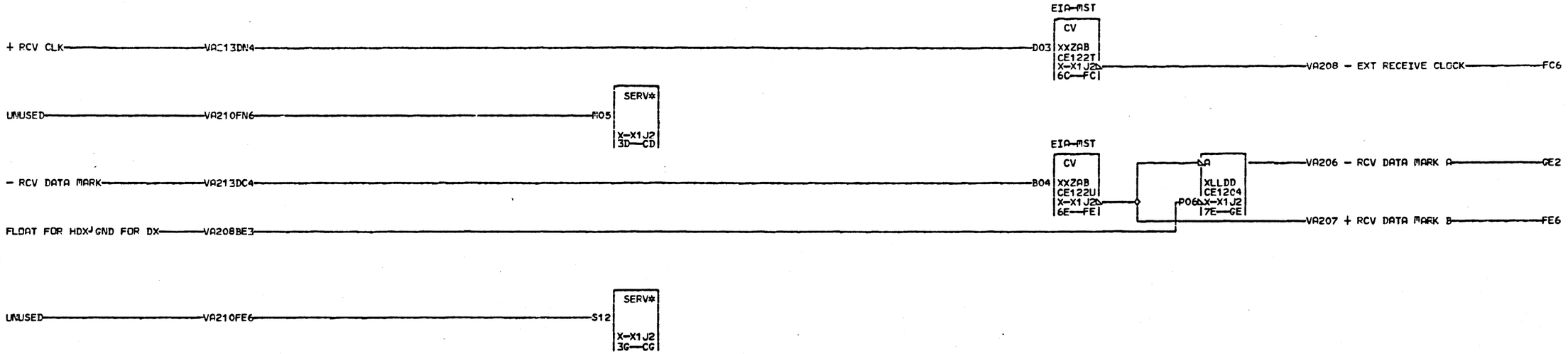


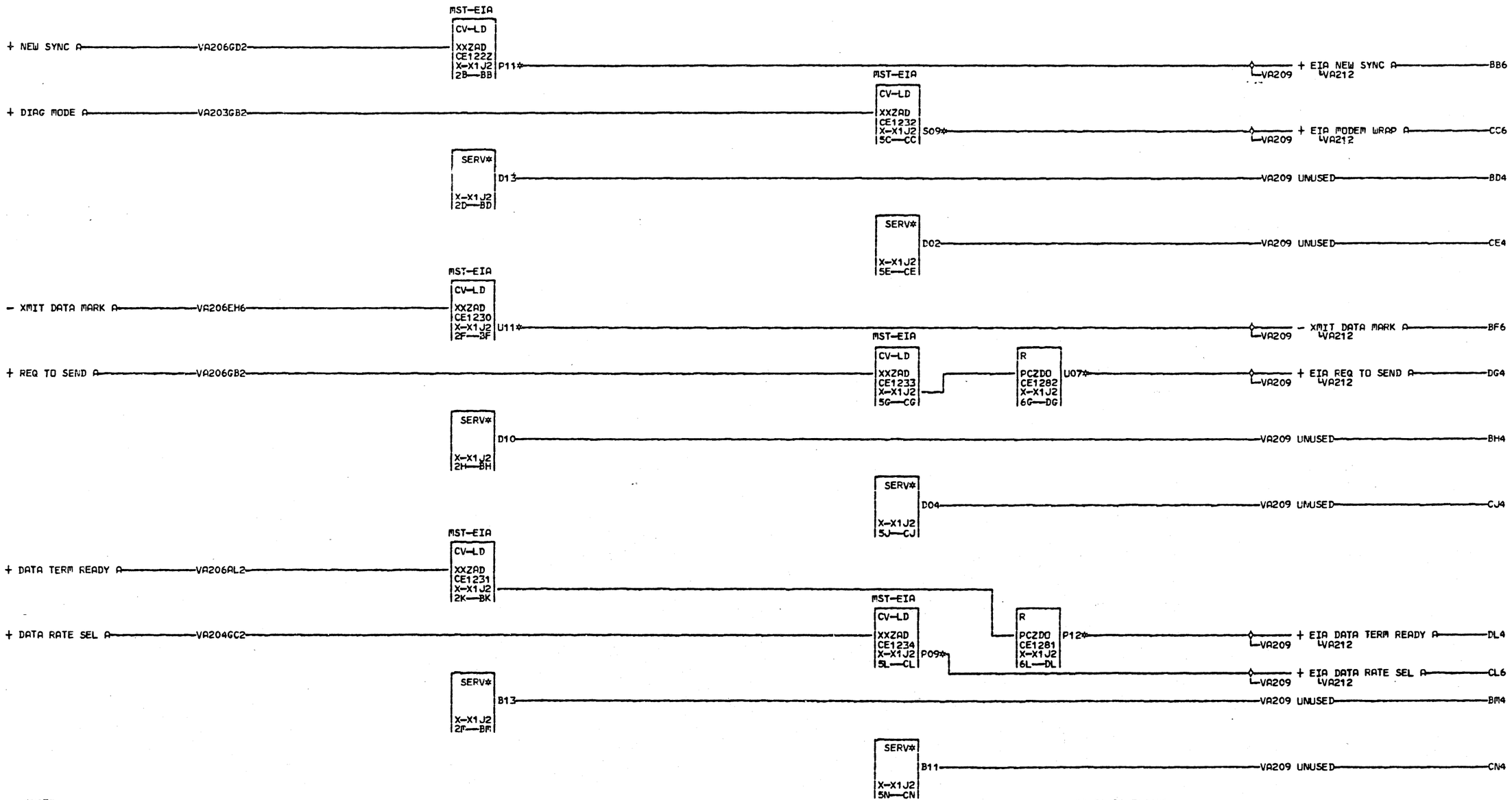
#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA0000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

V A 2 0 0 0 000

11-25-80 344401

LINE CONTROL CARD	
DATE 12-02-80 MACH. 3705	
LOG 965 FRAME 01	
P.N. 4499339	
IBM CORP. SCD BLK. FP	000


EIA-MST
CV
+ RCV CLK
VA213DN4
D03
XXZAB
CE122T
X-X1J2
6C—FC
VA208 - EXT RECEIVE CLOCK
FC6
UNUSED
VA210FN6
FN5
SERV*
X-X1J2
3D—CD
EIA-MST
CV
- RCV DATA MARK
VA213DC4
B04
XXZAB
CE122U
X-X1J2
6E—FE
A
XLLDD
CE12C4
P06
X-X1J2
7E—GE
VA206 - RCV DATA MARK A
GE2
FLOAT FOR HDX/GND FOR DX
VA208BE3
VA207 + RCV DATA MARK B
FE6
UNUSED
VA210FE6
S12
SERV*
X-X1J2
3G—CG
UNUSED
VA210FA6
U04
SERV*
X-X1J2
3M—CM
EIA-MST
CV
+ RCV SIG DET
VA213DA4
B03
XXZAB
CE122Y
X-X1J2
6N—FN
VA203 - RCV SIG DET
FN6
11-25-80 344401
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000
LINE CONTROL CARD
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499340
IBM CORP. SCD BLK. GF
VA201
000



*NOTE
*LOGIC SHOWN IS FULL FEATURE BOARD WIRING WITH A LINE SET #1 INSTALLED. FOR OTHER LINE *SET TYPES REFER TO VA000◊ *WHICH REFERENCES THE *APPLICABLE VB LOGICS FOR THE *SPECIFIC LINE TYPE.

BB6	X-X1U5D10
BF6	X-X1U5B02
CC6	X-X1U5D11
CL6	X-X1U5D06
DG4	X-X1U5B06
DL4	X-X1U5D03

11-25-80 344401

LINE CONTROL CARD

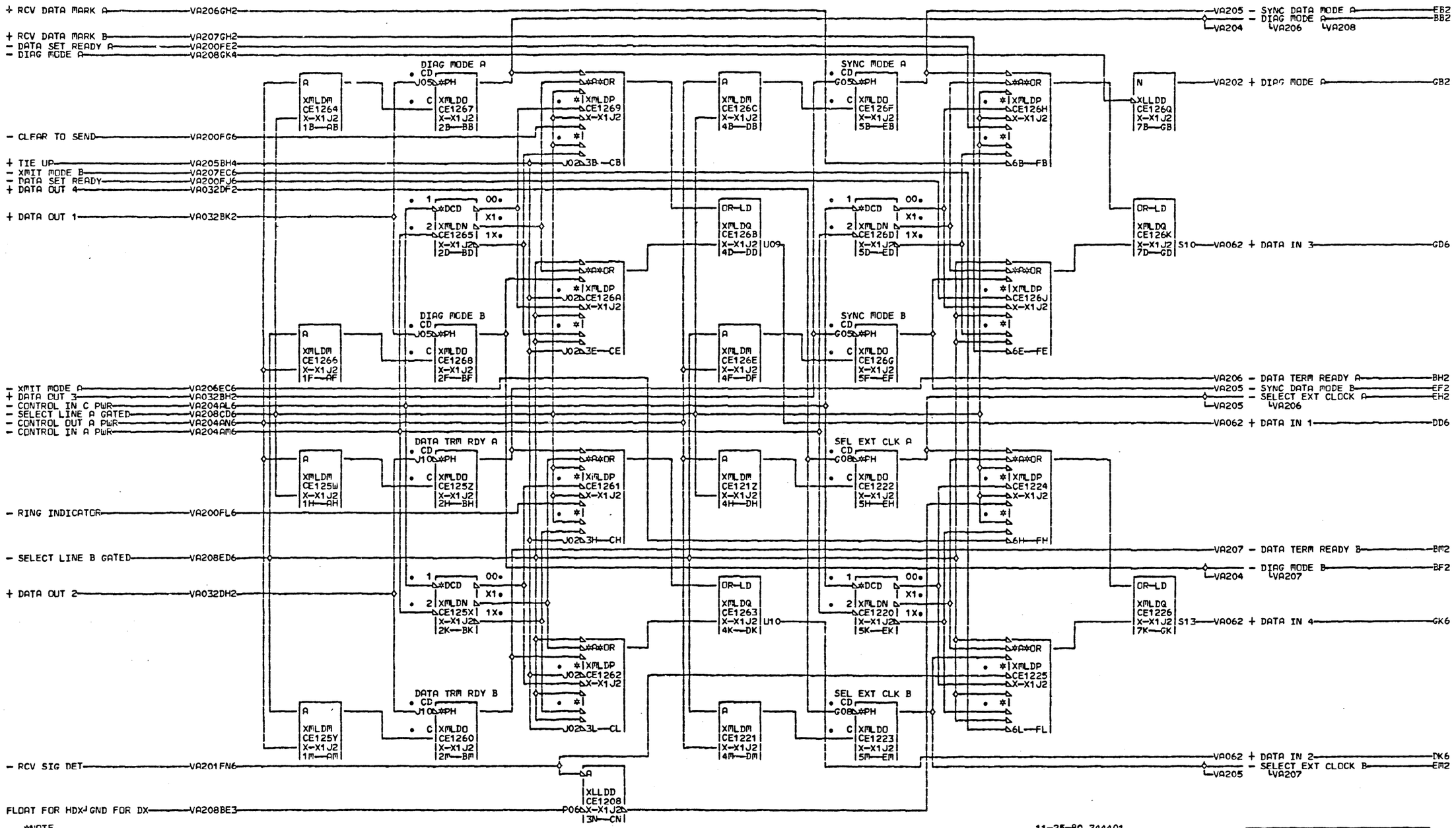
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499341

IBM CORP. SCD BLK. GN

V A 2 0 2 000



11-25-80 344401

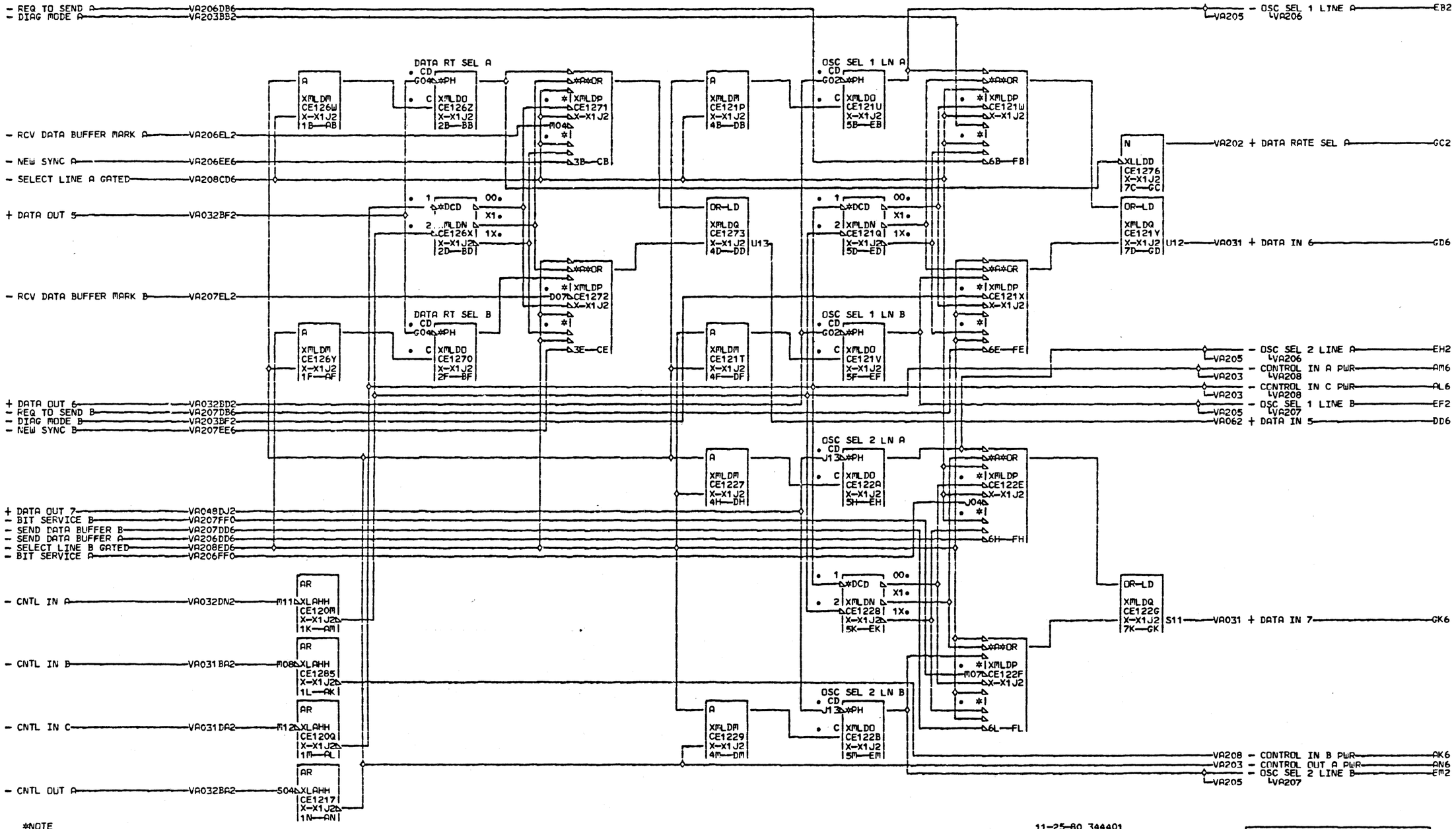
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

LINE CONTROL CARD				
DATE	12-02-80	MACH.	37C5	
LOG	965	FRAME	01	
		P.N.	4499342	
IBM CORP.	SCD	BLK.	GN	

VA2030 000

000 VA204



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

11-25-80 344401

LINE CONTROL CARD					
DATE	12-02-80	MACH.	3705		V A 2 0 4 000
LOG	965	FRAME		01	
		P.N.	4499343		
IBM CORP.	SCD	BLK.		GL	

000 VA205

- SYNC DATA MODE A — VA203EB2
- SELECT EXT CLOCK A — VA203EH2
- OSC SEL 1 LINE A — VA204EB2
- LINE COMPARE A — VA206FL6
+ RESET SCR SHIFT A — VA208FF2
- OSC SEL 2 LINE A — VA204EH2
- BCC SELECT ADAPT A — VA047BE5
FLOAT FOR HDX/GND FOR DX — VA208BE3

AR XLAHH CE121A X-X1J2 1E—AE
N XLLDD CE1237 X-X1J2 1F—AF
A OR XLLDD CE122C X-X1J2 2E—BE
A XLHCC CE121J X-X1J2 2F—BF
OR DOT 3E—CF
*OR*FL XAVAH CE1213 X-X1J2 4E—CE
*OR*FL XAVAH CE1235 X-X1J2 5E—EF
A OR XLHCC CE120Z X-X1J2 6A—DA — A02 — VA061 + LI A SYNC TO BCC — DA2
A OR XLHCC CE120W X-X1J2 6B—DB — P03 — VA060 + LI A EXT CLOCK TO BCC — DB2
A OR XLHCC CE120T X-X1J2 6C—DC — P04 — VA061 + LI A OSC SEL 1 TO BCC — DC2
A OR XLHCC CE120Y X-X1J2 6D—DD — G13 — VA061 + LI A OSC SEL 2 TO BCC — DD2
A OR XLHCC CE120R X-X1J2 6E—DE — P07 — VA060 + LI A LINE COMPARE TO BCC — DE2
A OR XLHCC CE120S X-X1J2 6F—DF — P02 — VA060 + RCV CLOCK SHIFT TO BCC A — DF2

VA207 — SCR SHIFT B — CL0
VA206 — BCC SELECT ADAPT A PWR — AE6
VA207 — BCC SELECT ADAPT B PWR — AL6
+ TIE UP — BH4
VA203 LVA206 LVA207
VA208 — SCR SHIFT A — CE0

- RST CLOCK SHIFT TR — VA043FA6
- SYNC DATA MODE B — VA203EF2
- SELECT EXT CLOCK B — VA203EM2
- RECEIVE CLOCK — VA208EG4
- LINE COMPARE B — VA207FL6
+ RESET SCR SHIFT B — VA208GF2
- OSC SEL 2 LINE B — VA204EM2
- OSC SEL 1 LINE B — VA204EF2
- BCC SELECT ADAPT B — VA047BE6

BIAS XVHLM CE121M X-X1J2 2H—BH
R XCABB CE121R X-X1J2 4H—CH
AR XLAHH CE121E X-X1J2 1L—AL
N XLLDD CE121E X-X1J2 1M—AM
A OR XLLDD CE122D X-X1J2 2L—BL
N XLHCC CE121K X-X1J2 2M—BM
OR DOT 3L—CM
*OR*FL XAVAH CE1214 X-X1J2 4L—CL
*OR*FL XAVAH CE122X X-X1J2 5L—EM
R XCABB CE121S X-X1J2 4N—CN
A OR XLHCC CE1210 X-X1J2 6H—DH — A02 — VA061 + LI B SYNC TO BCC — DH2
A OR XLHCC CE120V X-X1J2 6J—DJ — P03 — VA060 + LI B EXT CLOCK TO BCC — DJ2
A OR XLHCC CE120U X-X1J2 6K—DK — P04 — VA061 + LI B OSC SEL 1 TO BCC — DK2
A OR XLHCC CE120X X-X1J2 6L—DL — G13 — VA061 + LI B OSC SEL 2 TO BCC — DL2
A OR XLHCC CE1211 X-X1J2 6M—DM — P07 — VA060 + LI B LINE COMPARE TO BCC — DM2
A OR XLHCC CE1212 X-X1J2 6N—DN — P02 — VA060 + RCV CLOCK SHIFT TO BCC B — DN2

11-25-80 344401
04-13-81 344852

*NOTE
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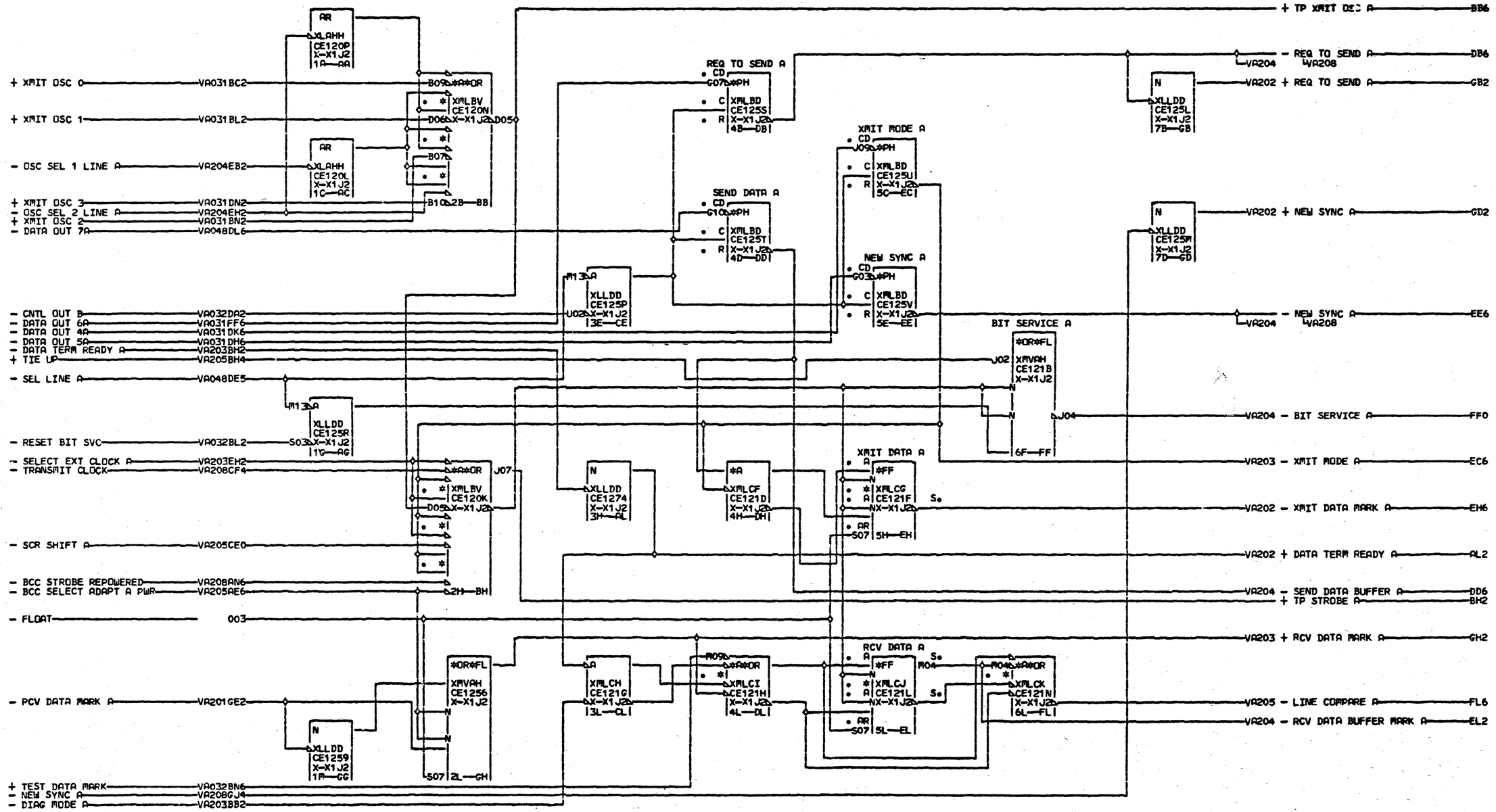
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

LINE CONTROL CARD

DATE 04-22-81 MACH. 3705
LOG 237 FRAME 01
P.N. 4499344
IBM CORP. SCD BLK. GL

VA205 000

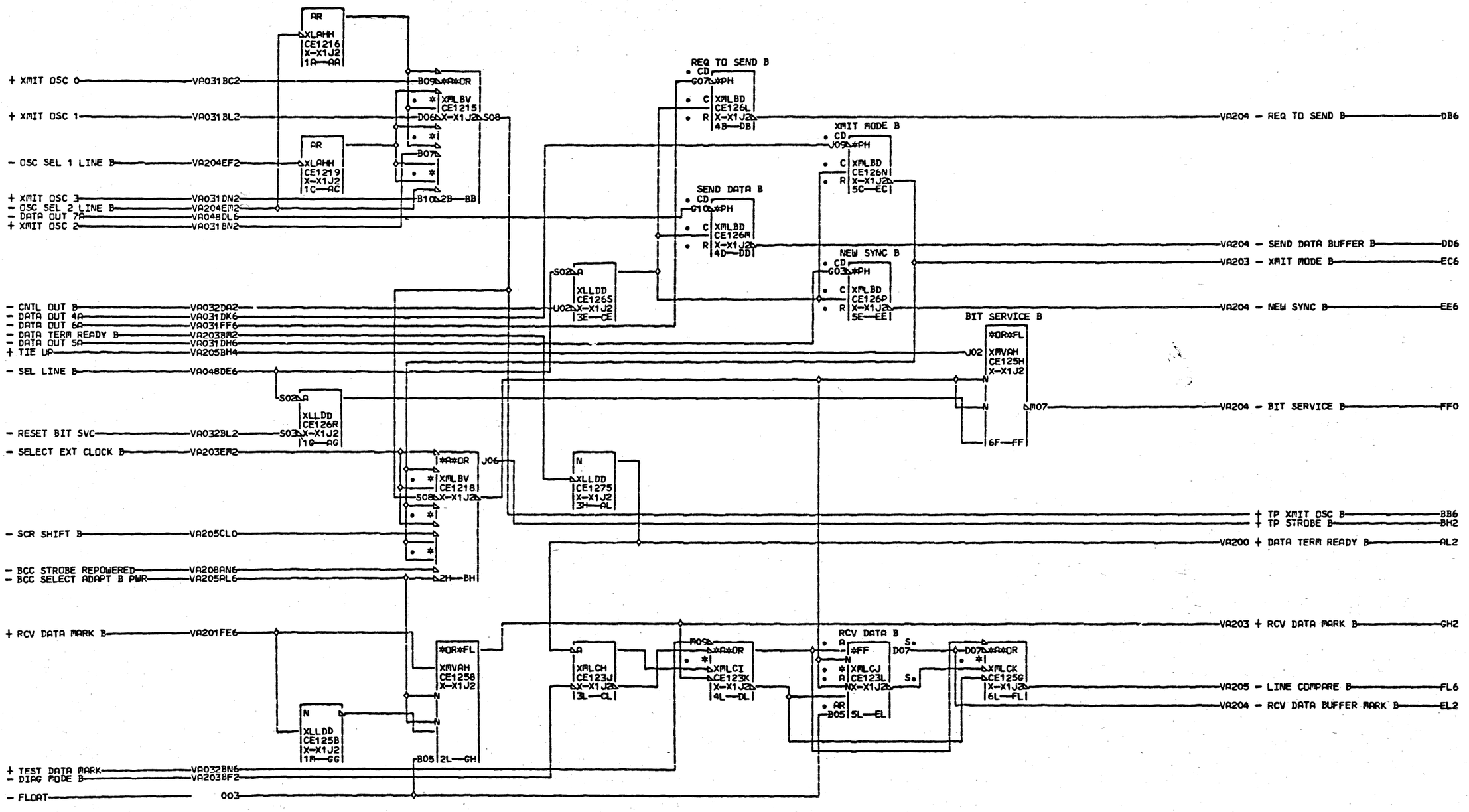


#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA0004
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

VA206 000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	MACH. 3705		VA206 000
LCG	228	FRAME	01	
		P.N.	4499345	
IBM CORP.	SCD	BLK.	GJ	

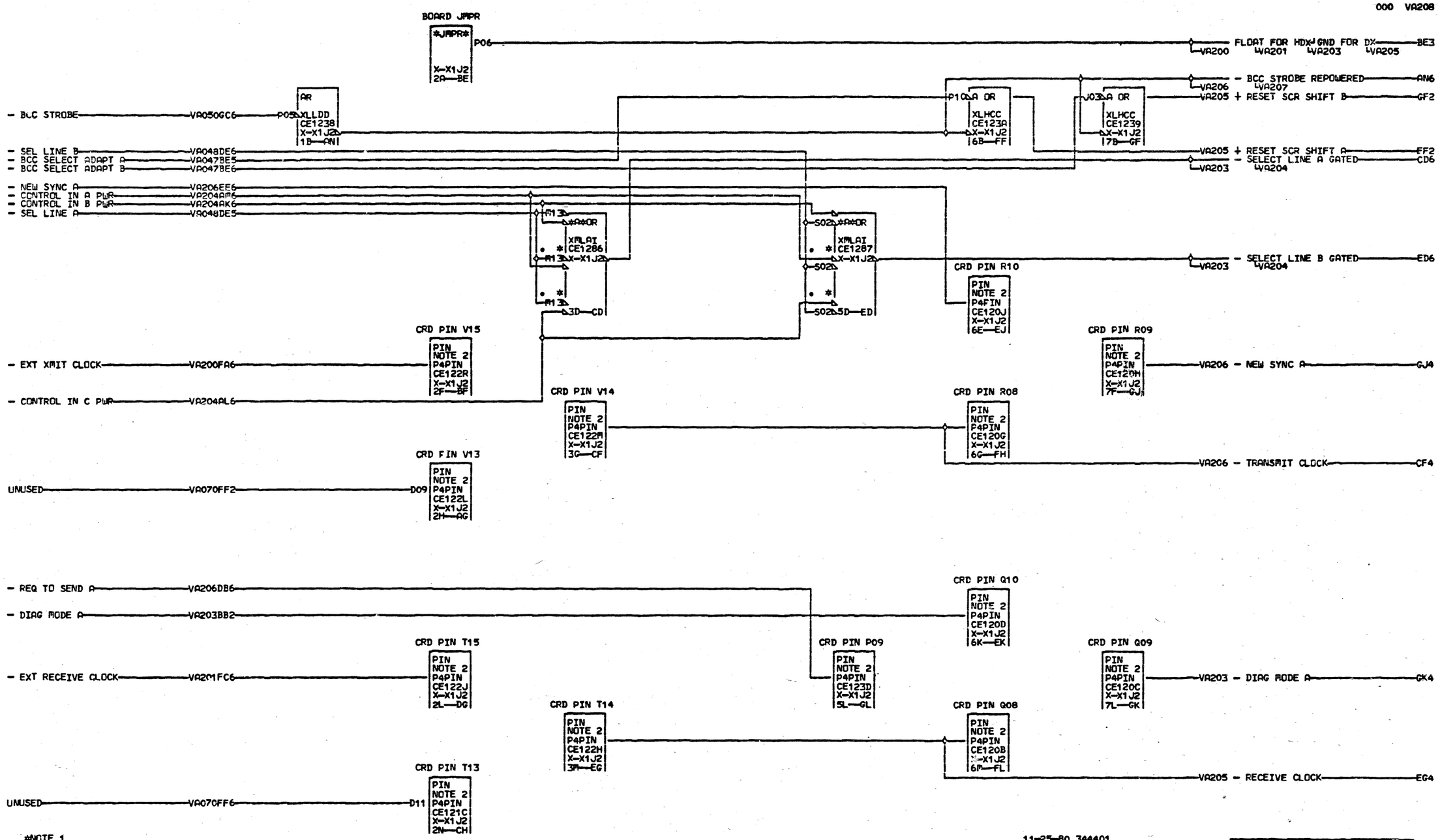


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD
DATE 04-22-81 MACH. 3705
LOG 228 FRAME 01
P.N. 4499346
IBM CORP. SCD BLK. GJ

VA207 000

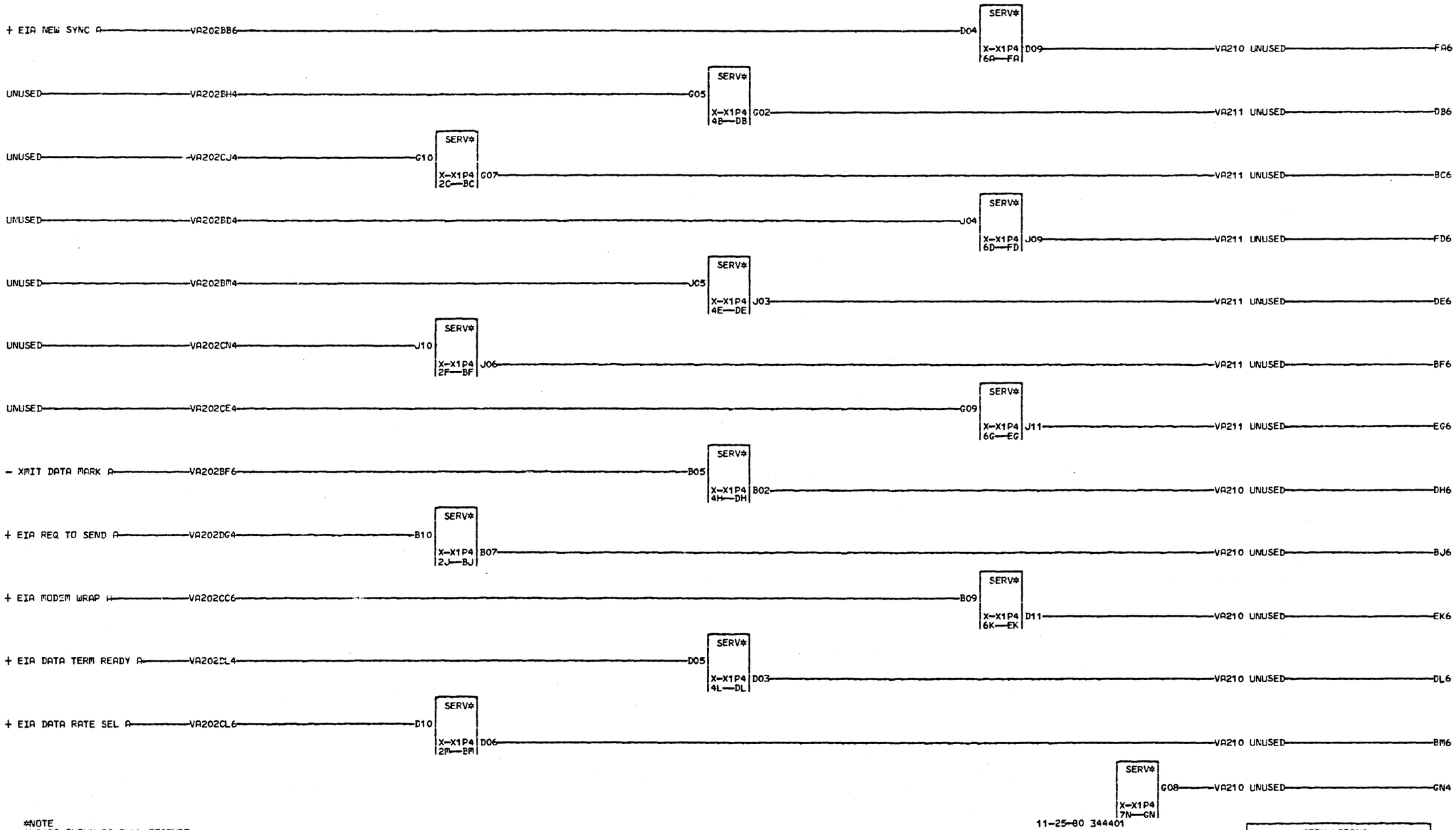


*NOTE 1
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000*NOTE 2
*REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	FACH.	3705	
LOG	237	FRAME	01	
		P.N.	4499347	
IBM CORP.	SCD BLK.		GR	

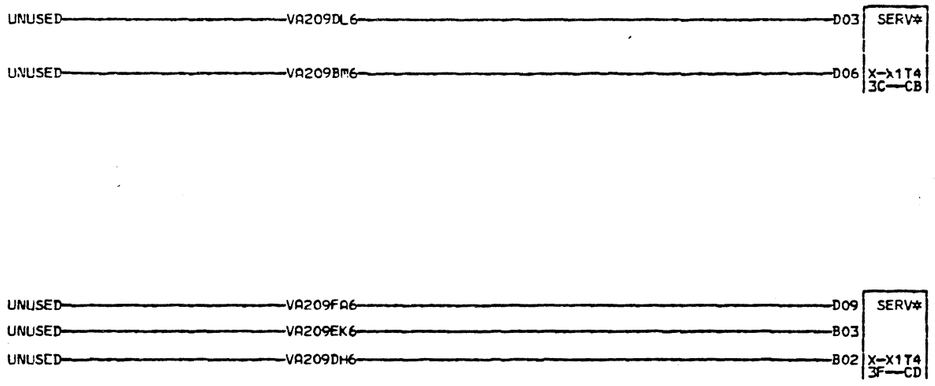
VA2008 000



11-25-80 344401

*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
2 *SET TYPES REFER TO VA000◊
0 *WHICH REFERENCES THE
9 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

SERV WIRING					
DATE	12-02-80	MACH.	2705		V A 2 0 9
LOG	965	FRAME		01	
		P.N.	4499348		000
IBM CORP.	SCD BLK.			GP	



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

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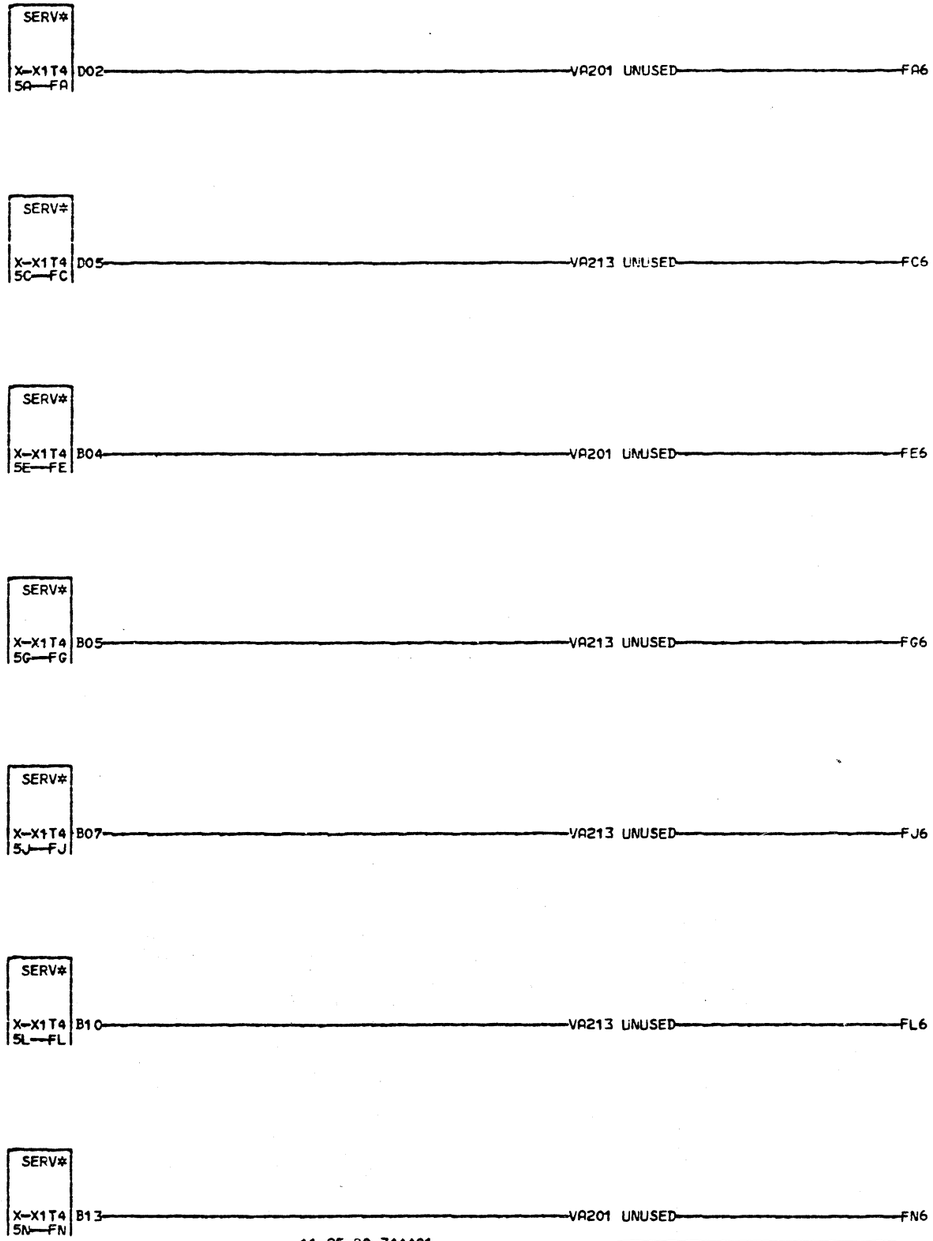
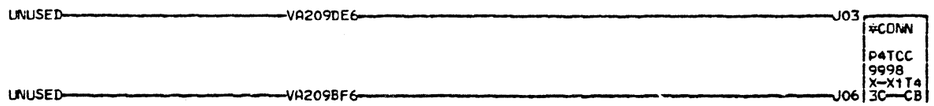
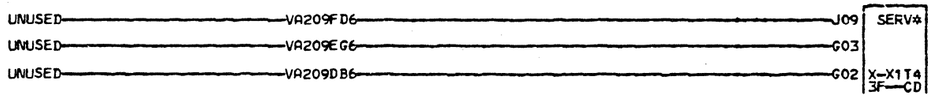
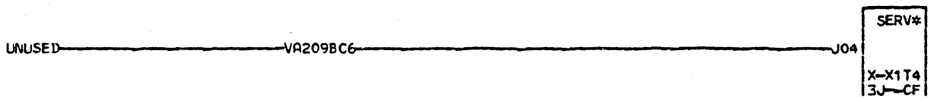


11-25-80 344401

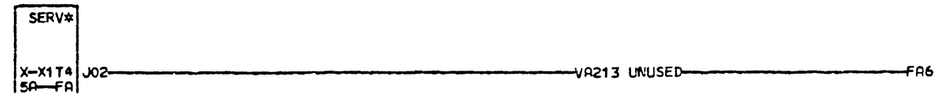
SERV WIRING				
DATE	12-02-80	MACH.	3705	VP2100
LOG	965	FRAME	01	
		P.N.	4499349	
IBM CORP.	SCD	BLK.	FP	000

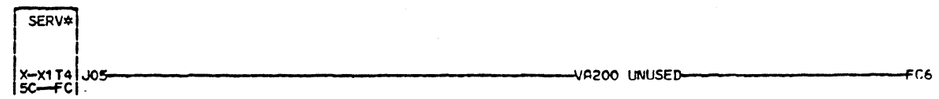


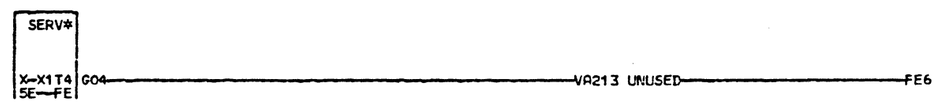


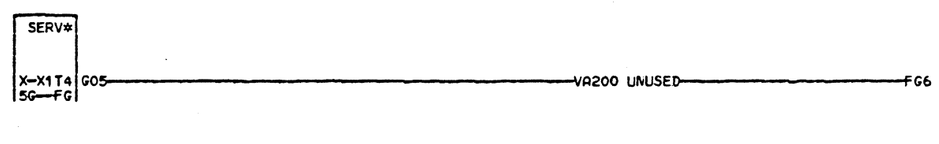


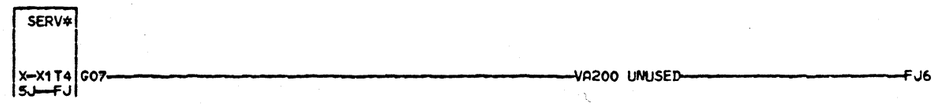
*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
2 *SET TYPES REFER TO VA0000
1 *WHICH REFERENCES THE
1 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

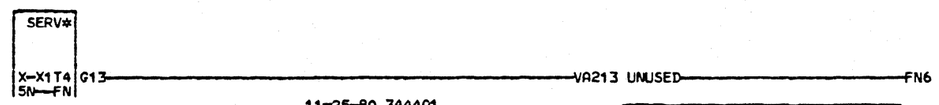






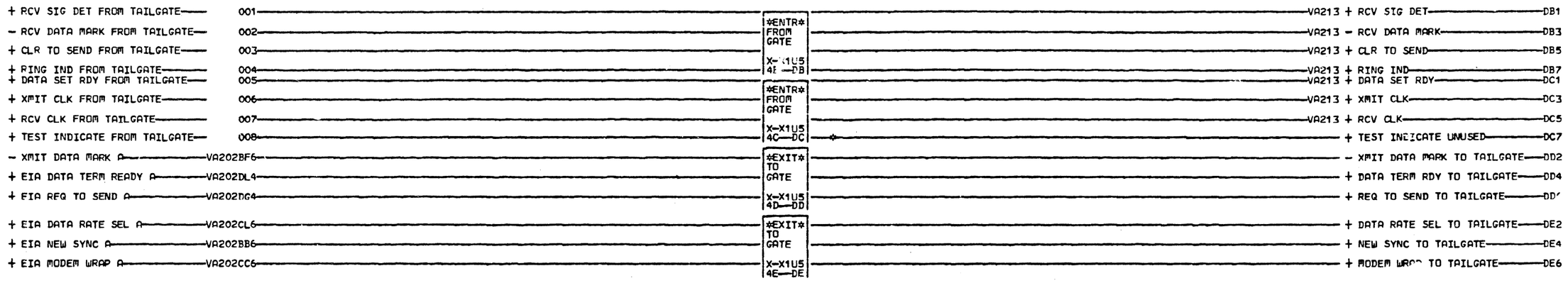






11-25-80 344401

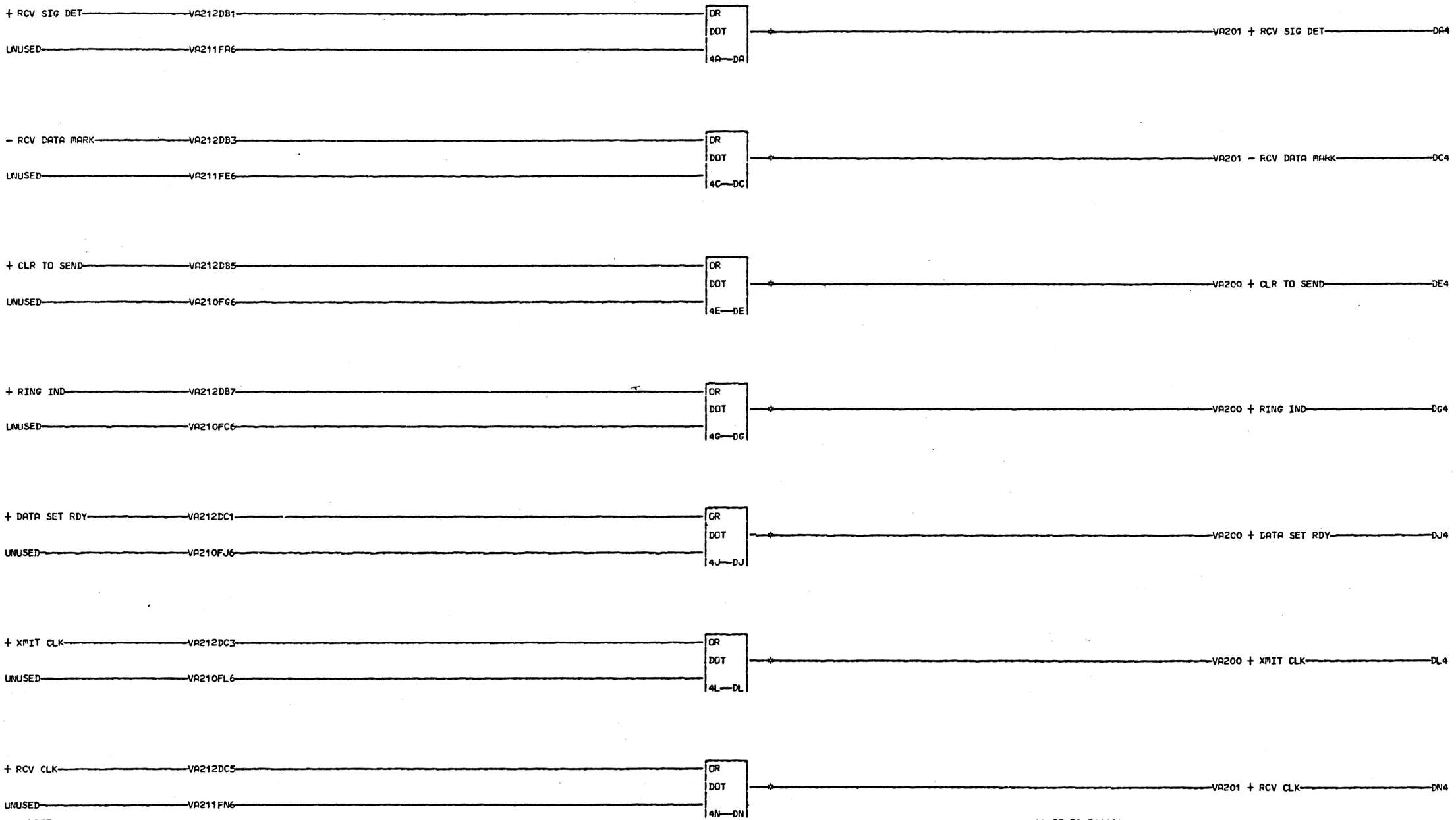
SERV WIRING				
DATE	12-02-80	MACH.	3705	V
LOG	965	FRAME	01	A
		P.N.	4499350	2
IBM CORP.	SCD	BLK.	FP	1
				1
				000



*NOTE
*LOGIC SHOWN IS FULL FEATURE DC7 Y-X1U5D13
V *BOARD WIRING WITH A LINE SET
A *T INSTALLED. FOR OTHER LINE
2 *SET TYPES REFER TO VA0000
1 *WHICH REFERENCES THE
2 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE INTERFACE CABLE				
DATE	12-02-80	MACH. 3705		VA212 000
LOG	965	FRAME	01	
		P.N.	4499351	
IBM CORP.	SCD BLK.		DF	



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

DA4 X-X1U5D02
DC4 X-X1U5B04
DE4 X-X1U5B05
DG4 X-X1U5D05
DJ4 X-X1U5B08
DL4 X-X1U5B10
DN4 X-X1U5B13

000

11-25-80 344401

DOTTED REC LINE INTERFACE

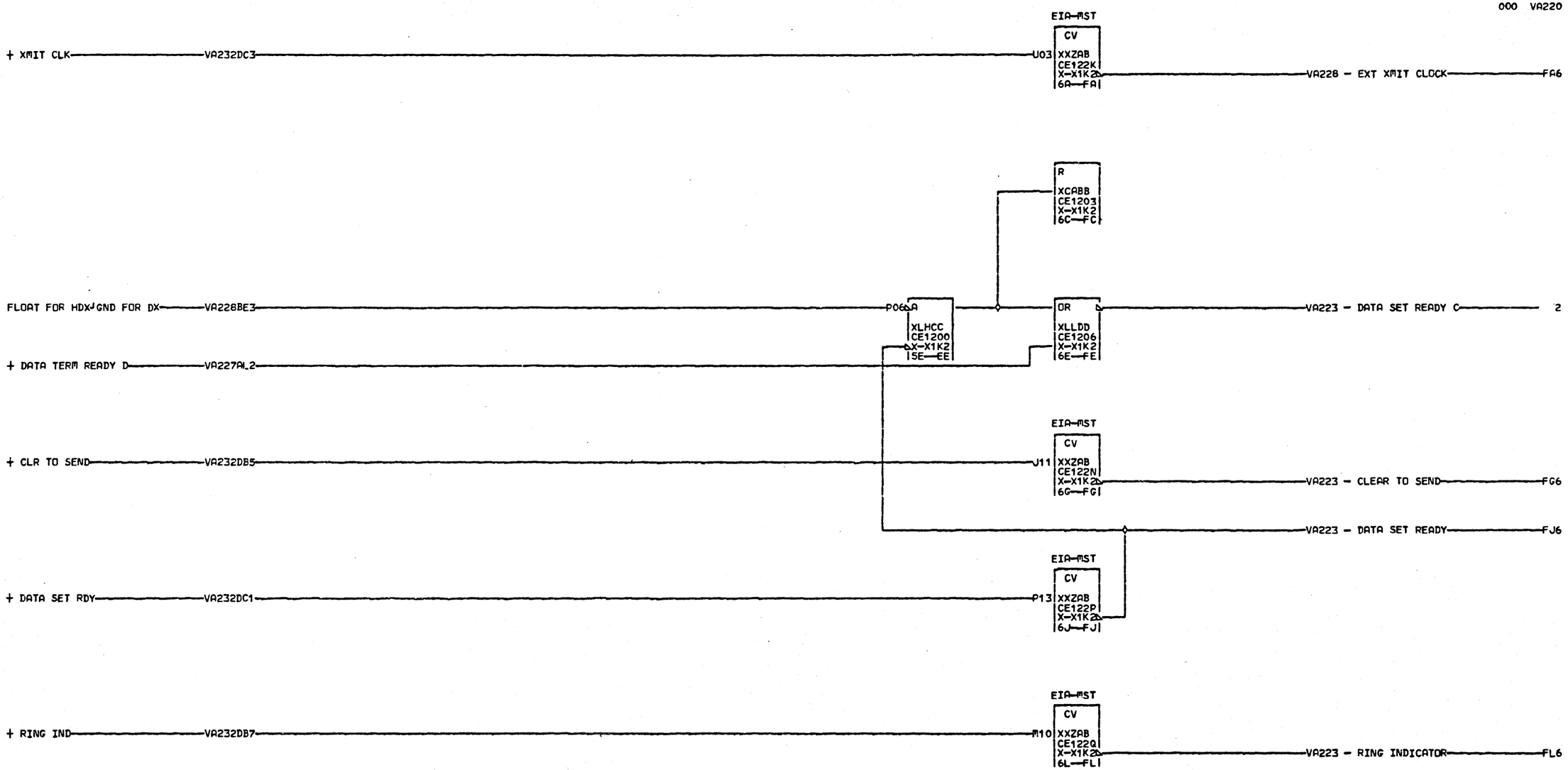
DATE 12-02-80 MACH. 3705

LOG 965 FRAME 01

P.N. 4499352

IBM CORP. SCD BLK. DP

VA213 000

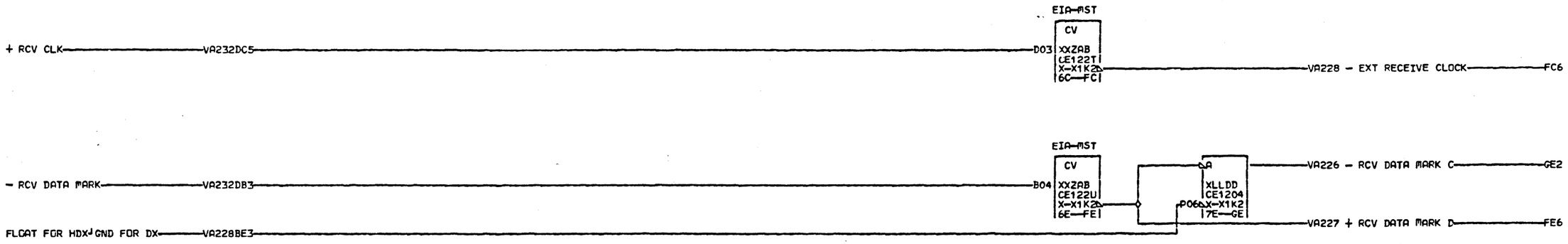


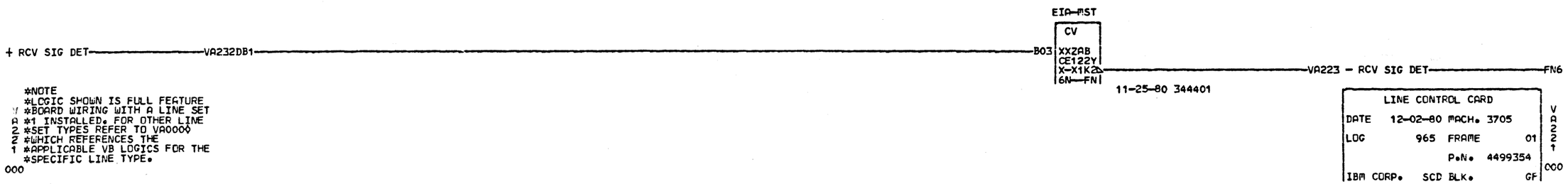
#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

V A 2 2 0 000

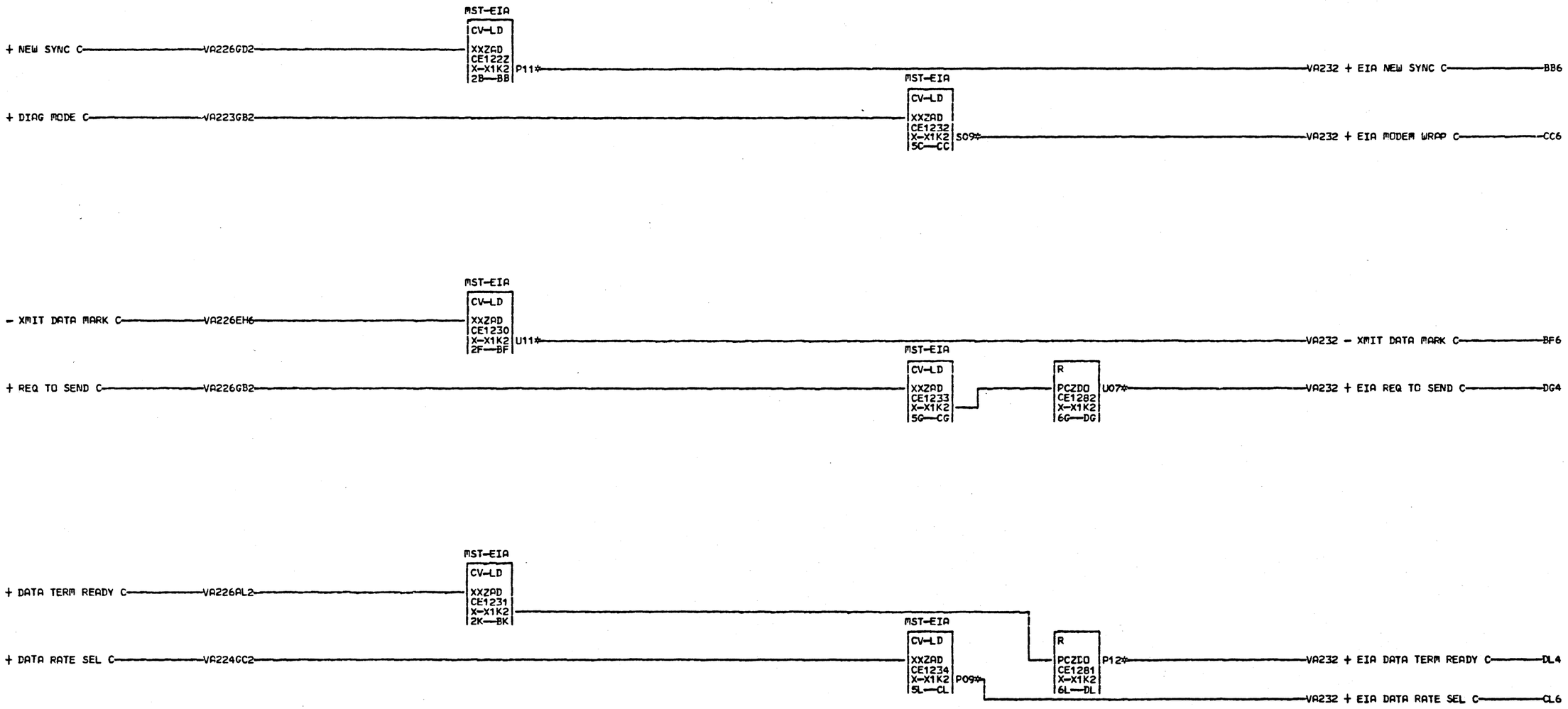
11-25-80 344401

LINE CONTROL CARD			
DATE	12-02-80	MACH.	3705
LOG	965	FRAME	01
		P.N.	4499353
IBM CORP.	SCD	BLK.	FP





#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.
000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

BB6	X-X1V3D10
BF6	X-X1V3B02
CC6	X-X1V3D11
CL6	X-X1V3D06
DG4	X-X1V3B06
DL4	X-X1V3D03

11-25-80 344401

LINE CONTROL CARD

DATE 12-02-80 MACH. 3705

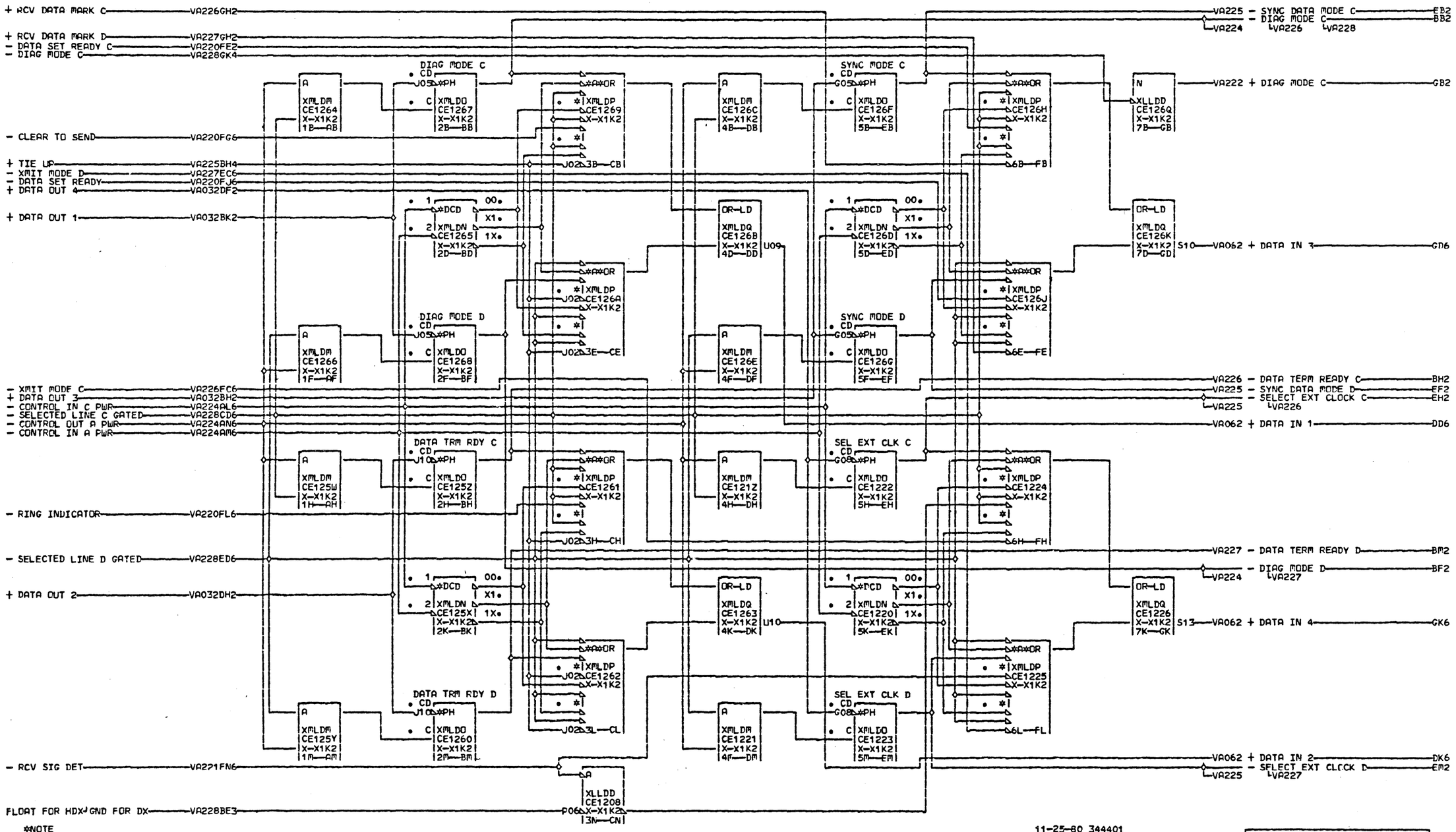
LOG 965 FRAME 01

P.N. 4499355

IBM CORP. SCD BLK. GN

VA222 000

000 VA223



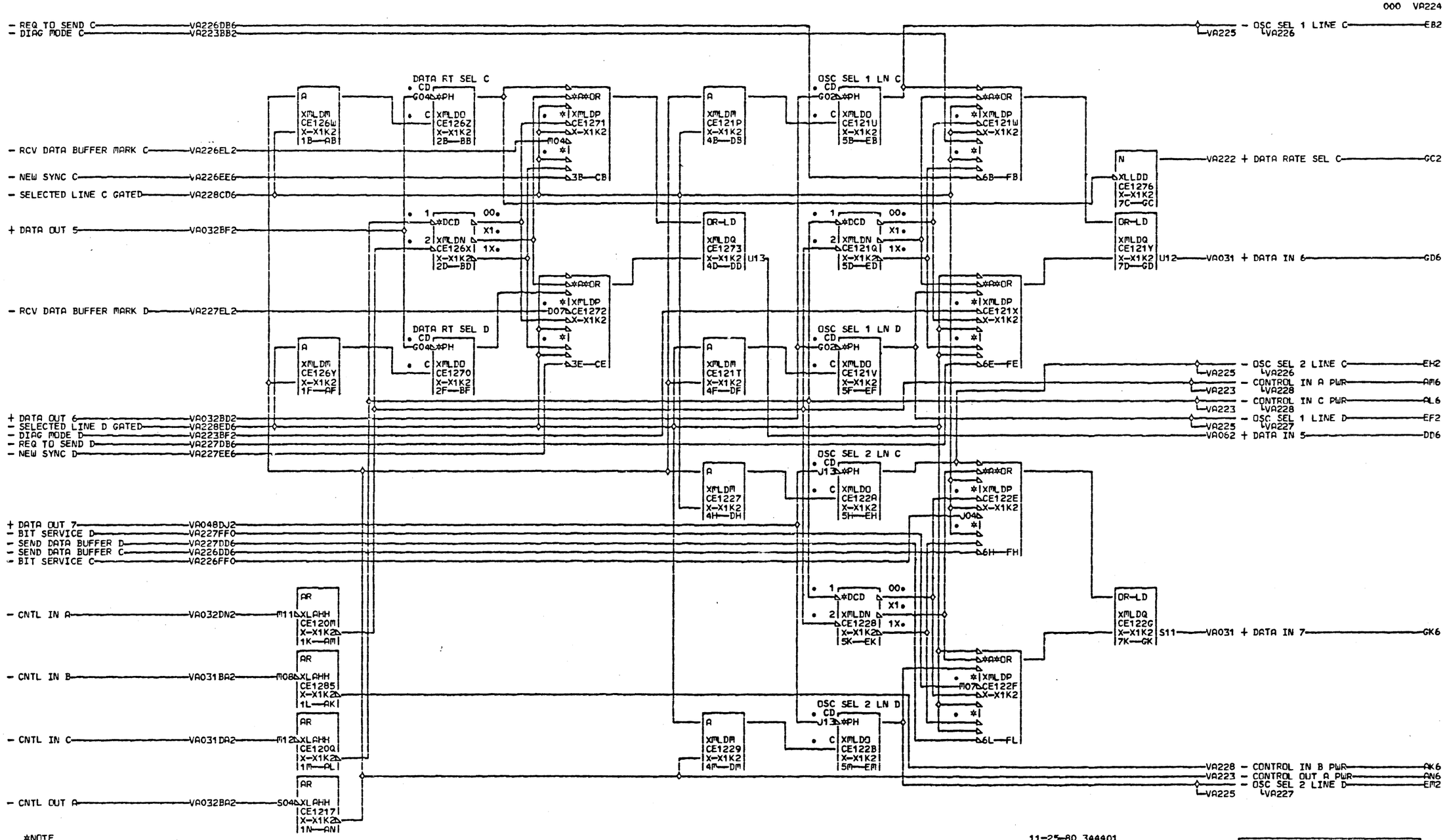
11-25-80 344401

*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0C0◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

LINE CONTROL CARD				V
DATE	12-02-80	MACH. 3705		A
LOG	965	FRAME	01	2
		P.N.	4499356	2
IBM CORP.	SCD BLK.		GN	3 000

000 VA224

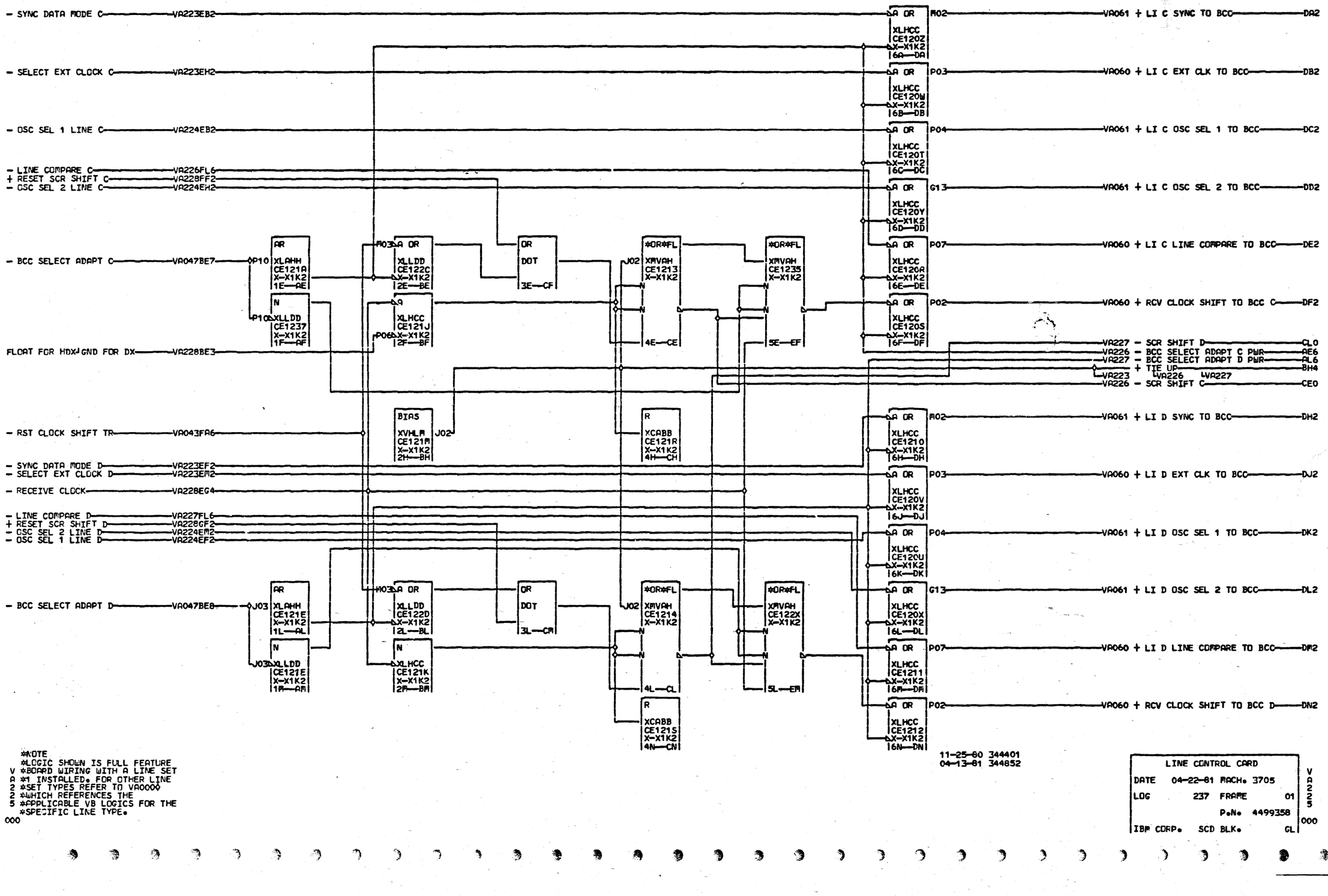


*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

11-25-80 344401

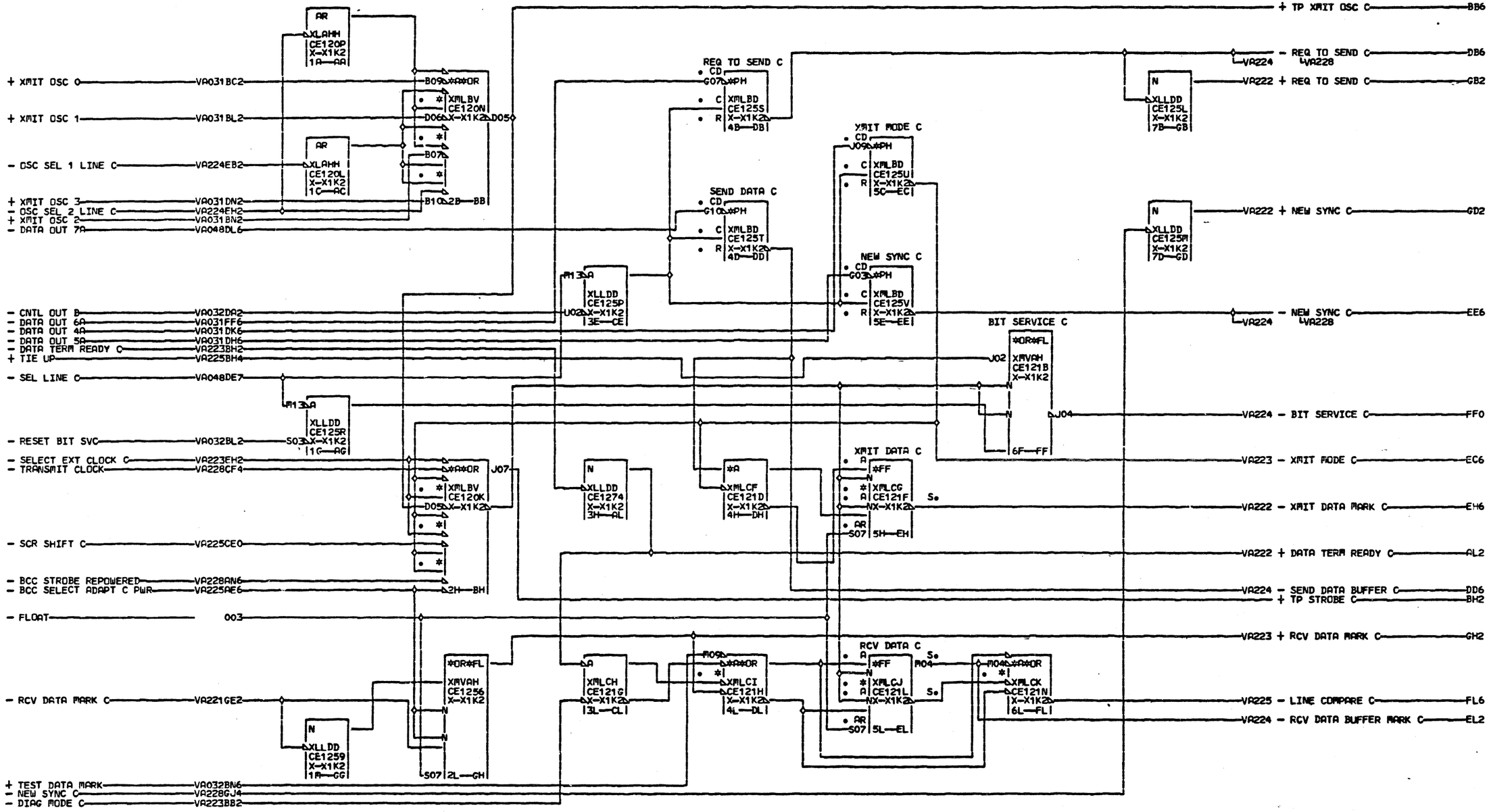
LINE CONTROL CARD				V
DATE 12-02-80	MACH. 3705			V
LOG 965	FRAME	01		A
	P.N. 4499357			2
IBM CORP. SCD	BLK.	GL		2
				4
				000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A #1 INSTALLED. FOR OTHER LINE
2 #SET TYPES REFER TO VA0000
2 #WHICH REFERENCES THE
5 #APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE 04-22-81	MACH. 3705			VA225
LOG 237	FRAME 01			000
	P.N. 4499358			
IBM CORP.	SCD BLK.	GL		



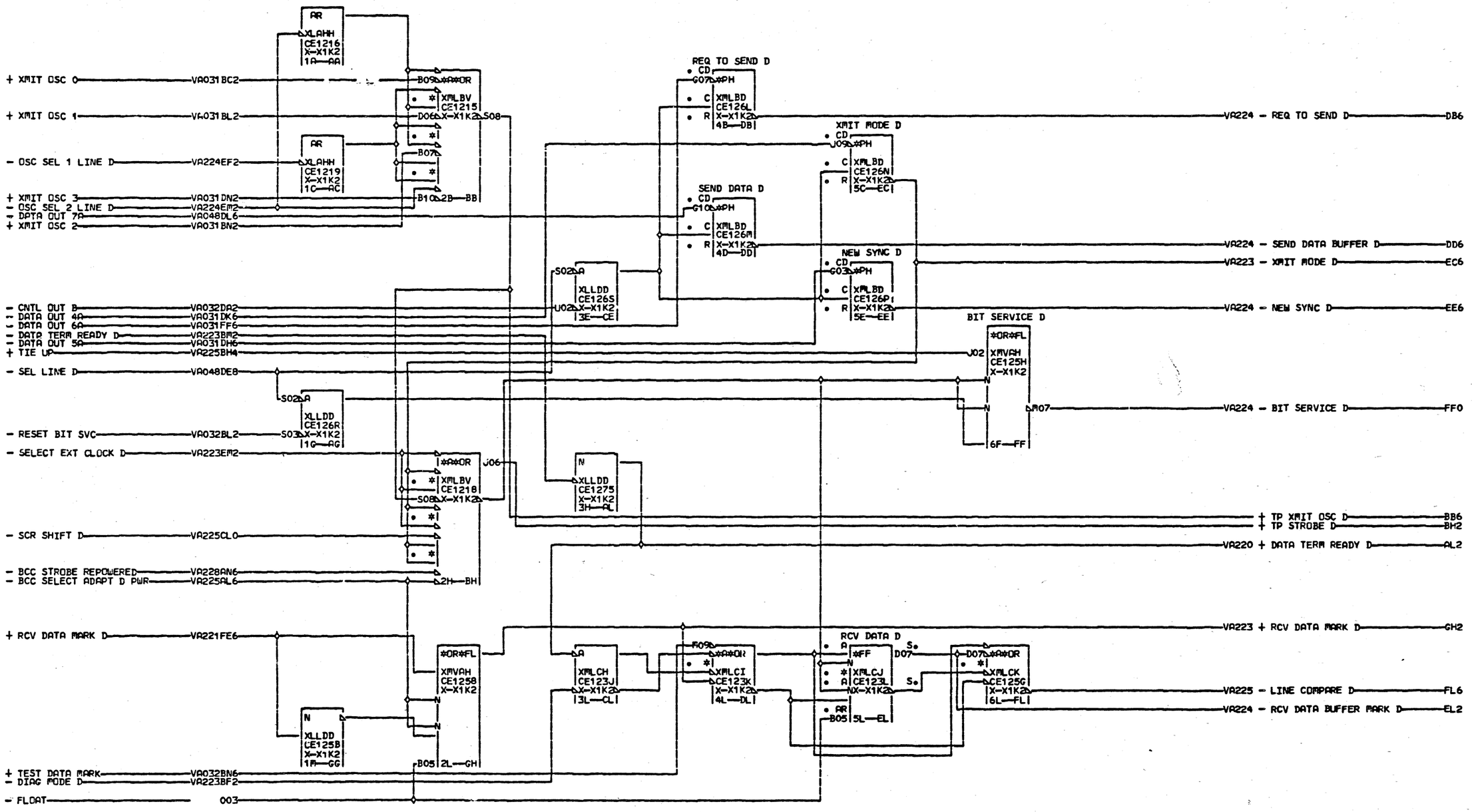
*NOTE
*LOGIC SHOWN IS FULL FEATURE
V *BOARD WIRING WITH A LINE SET
A *1 INSTALLED. FOR OTHER LINE
2 *SET TYPES REFER TO VA0000
2 *WHICH REFERENCES THE
6 *APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD

DATE	04-22-81	MACH. 3705	
LOG	228	FRAME	01
		P.N.	4499359
IBM CORP.	SCD BLK.		GJ

VA226 000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

V A 2 2 7 2 7 000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD

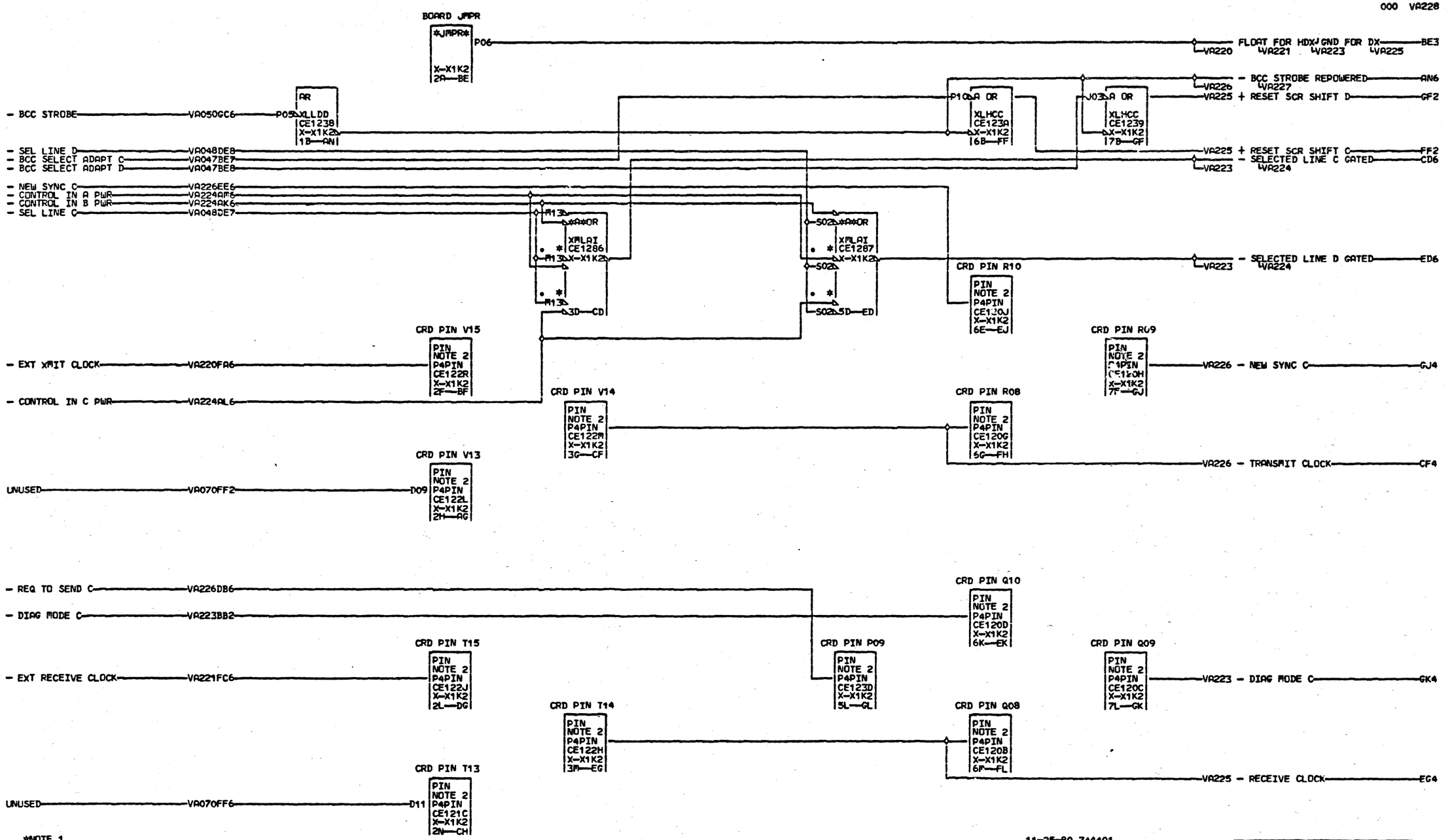
DATE 04-22-81 MACH. 3705

LOG 228 FRAME 01

P.N. 4499360

IBM CORP. SCD BLK. GJ

V A 2 2 7 000

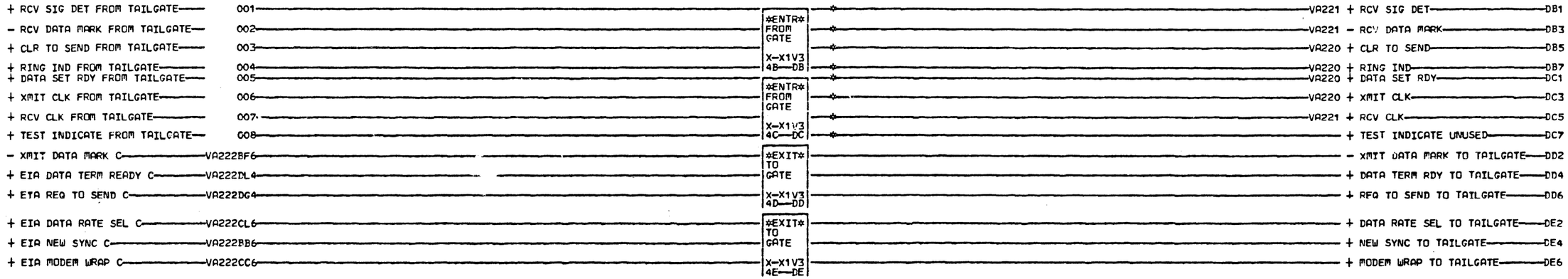


*NOTE 1
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
*NOTE 2
*REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD			
DATE 04-22-81	MACH. 3705		
LOG 237	FRAME	01	
	P.N. 4499361		
IBM CORP.	SCD BLK.	GF	

VA228 000



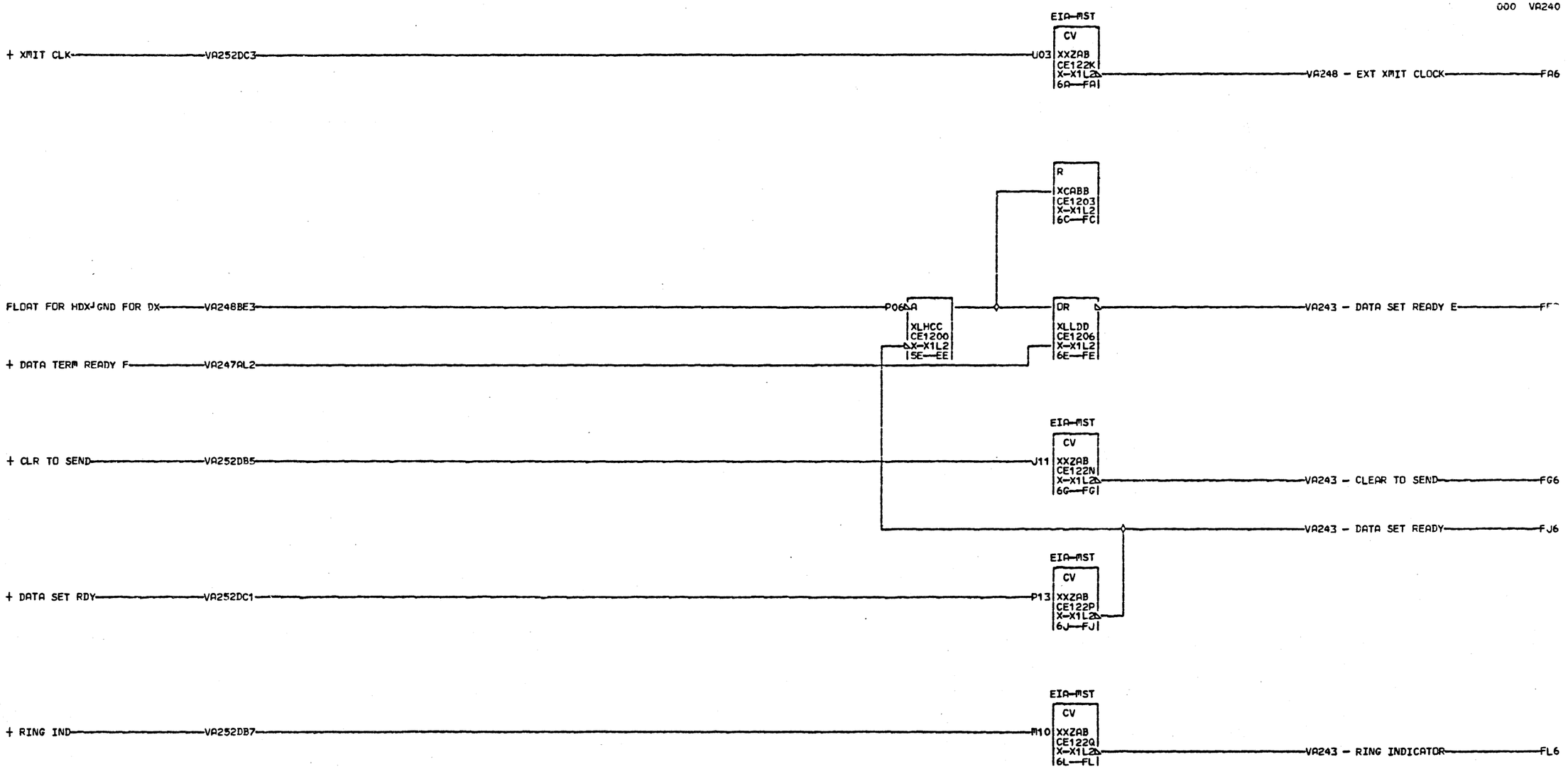
#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

V A 2 3 2 000

DB1 X-X1V3D02
DB3 X-X1V3B04
DB5 X-X1V3B05
DB7 X-X1V3D05
DC1 X-X1V3B08
DC3 X-X1V3B10
DC5 X-X1V3B13
DC7 X-X1V3D13

11-25-80 344401

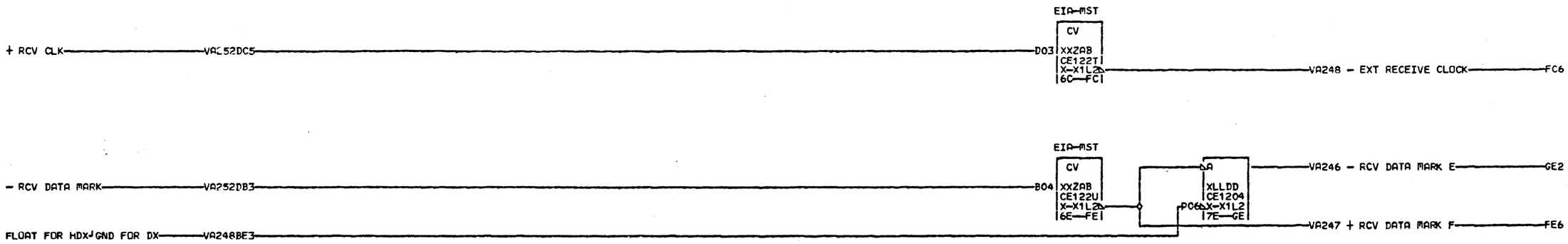
LINE INTERFACE CABLE					
DATE	12-02-80	MACH.	3705		V A 2 3 2
LOG	965	FRAME		01	
		P.N.	4499362		
IBM CORP.	SCD	BLK.		DF	000

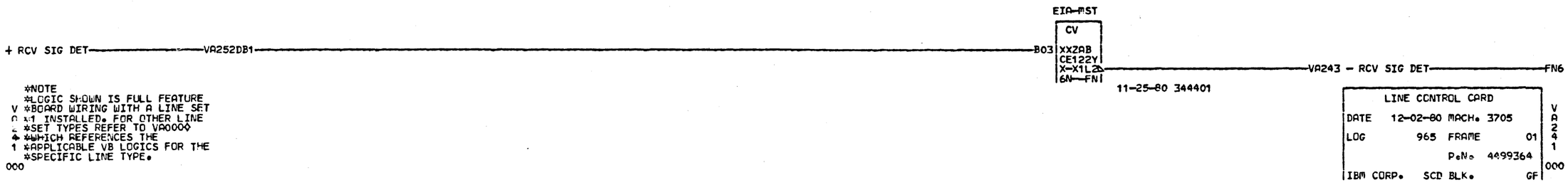


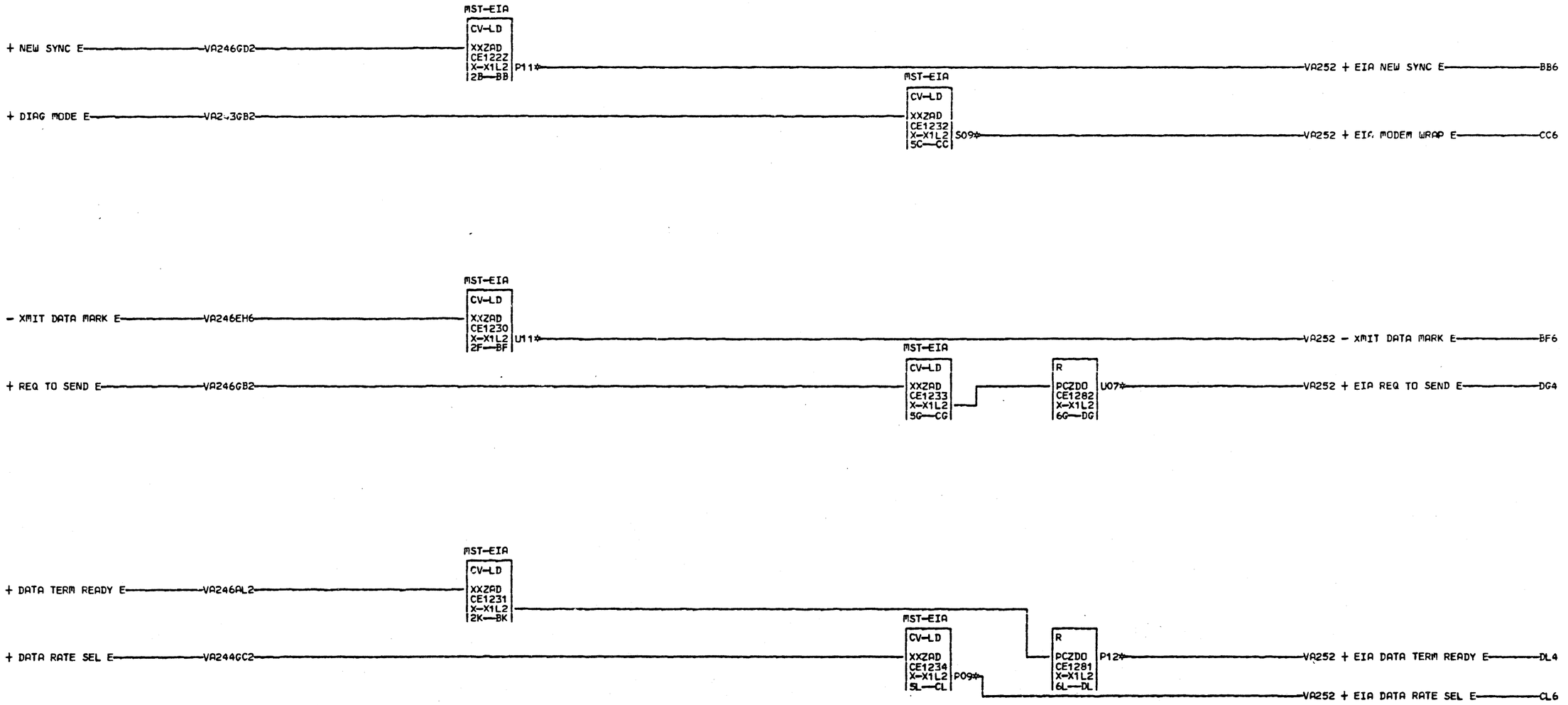
#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.
000

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		V A 2 4 0
LOG	965	FRAME	01	
		P.N.	4499363	
IBM CORP.	SCD BLK.		FP	000


+ RCV CLK
VAL52DC5
EIA-MST
CV
D03 XXZAB
CE122T
X-X1L2
6C FC1
VA248 - EXT RECEIVE CLOCK
FC6
- RCV DATA MARK
VA252DB3
EIA-MST
CV
B04 XXZAB
CE122U
X-X1L2
6E FE1
A
XLLDD
CE1204
P06 X-X1L2
7E GE
VA246 - RCV DATA MARK E
GE2
FLOAT FOR HDX/GND FOR DX
VA248BE3
VA247 + RCV DATA MARK F
FE6


+ RCV SIG DET
VA252DB1
EIA-MST
CV
B03 XXZAB
CE122Y
X-X1L2
6N FN1
VA243 - RCV SIG DET
FN6
11-25-80 344401
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*SET TYPES REFER TO VA000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
000
LINE CONTROL CARD
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499364
IBM CORP. SCD BLK. GF
VA241
000



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

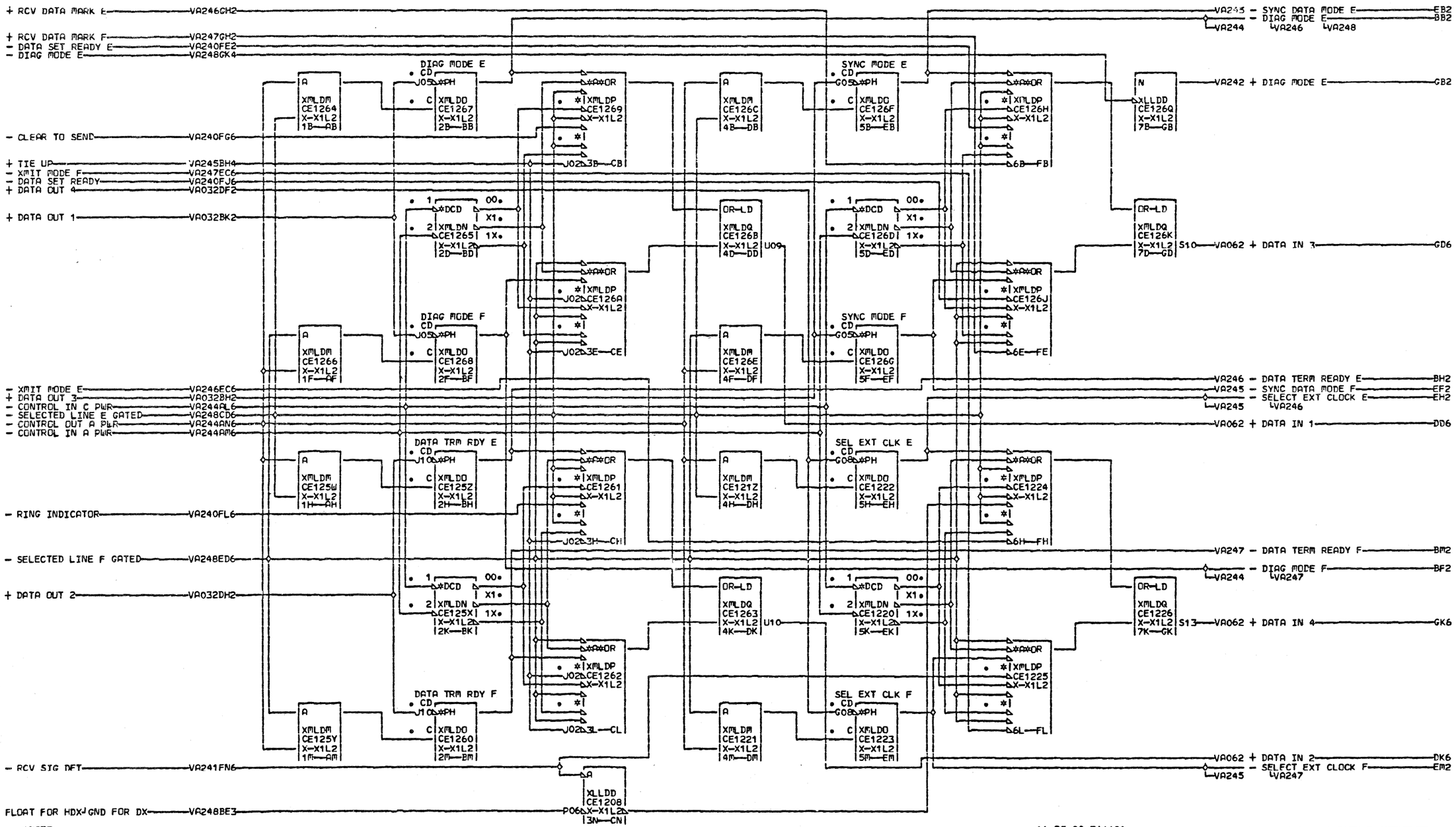
BB6	X-X1V5D10
BF6	X-X1V5B02
CC6	X-X1V5D11
CL6	X-X1V5D06
DG4	X-X1V5B06
DL4	X-X1V5D03

11-25-80 344401

LINE CONTROL CARD				
DATE	12-02-80	MACH. 3705		V A 2 4 2
LOG	965	FRAME	01	
		P.N.	4499365	
IBM CORP.	SCD BLK.		GN	000

000

000 VA243



11-25-80 344401

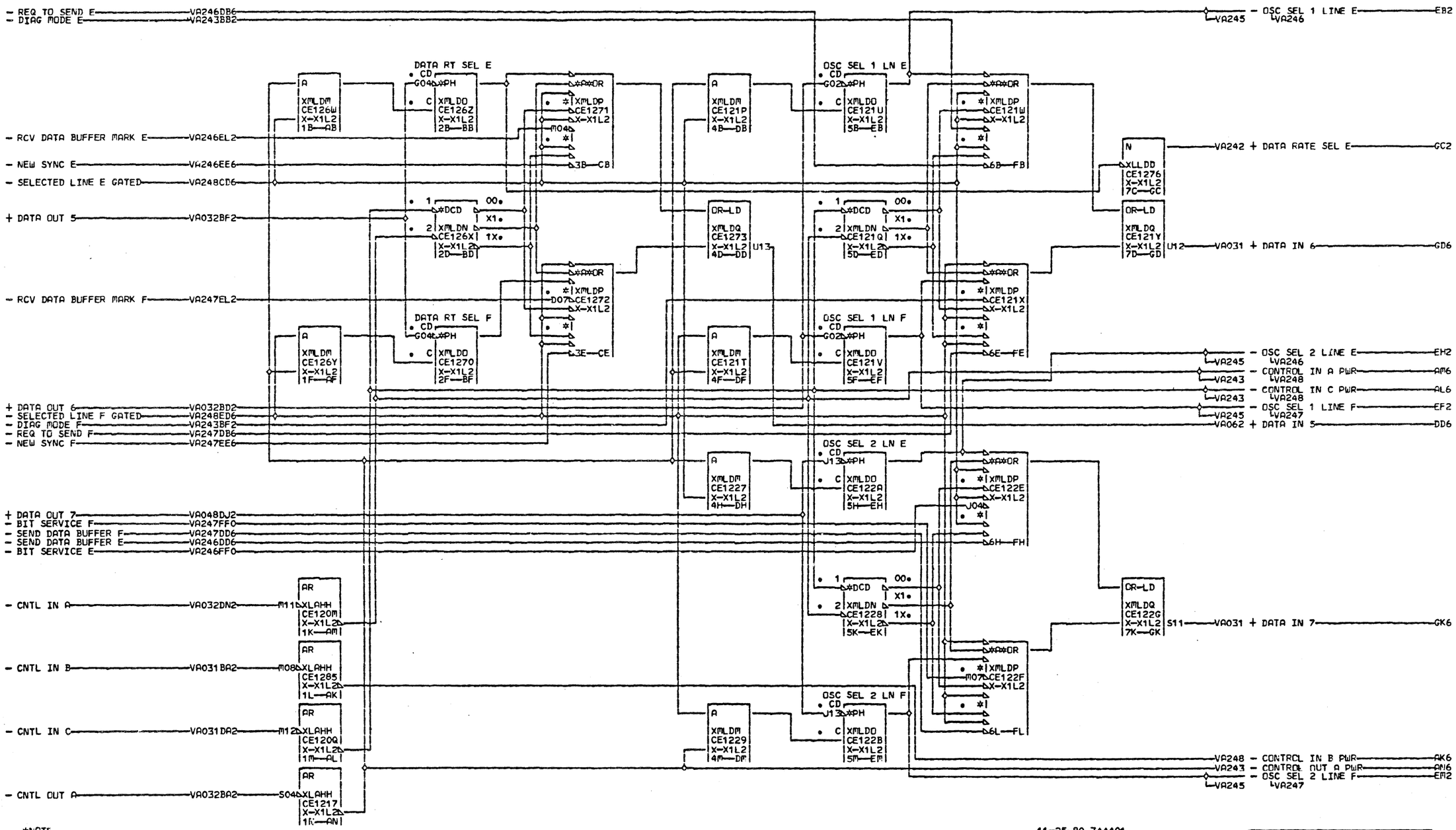
*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFEPENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

000

LINE CONTROL CARD				
DATE	12-02-80	MACH.	3705	
LOG	965	FRAME	01	
		P.N.	4499366	
IBM CORP.	SCD	BLK.	GN	

V A 2 4 3 000

000 VA244

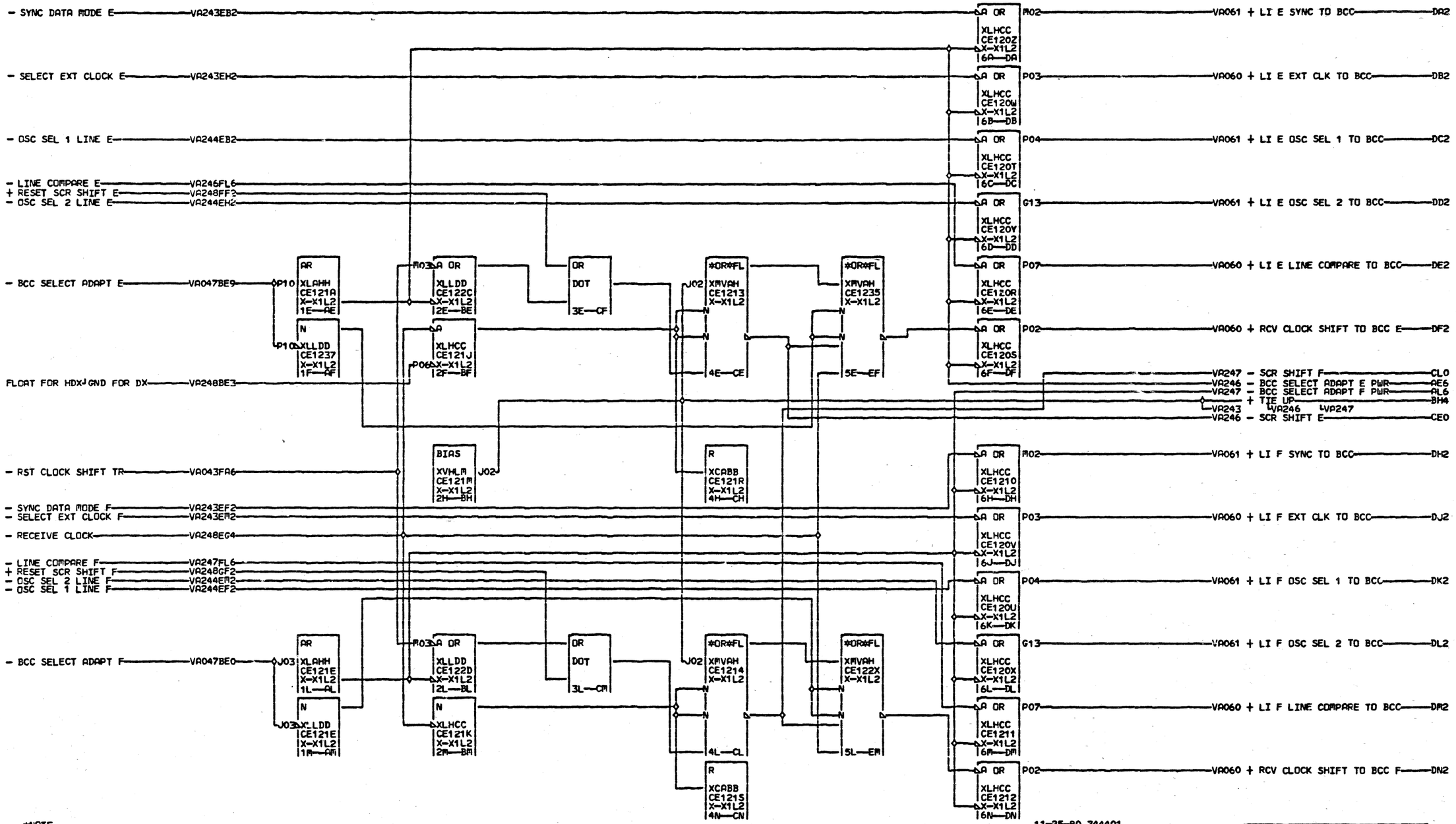


#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA0000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

11-25-80 344401

LINE CONTROL CARD				V A 2 4 4 000
DATE 12-02-80	MACH. 3705			
LOG 965	FRAME	01		
	P.N. 4499367			
IBM CORP.	SCD BLK.		GL	

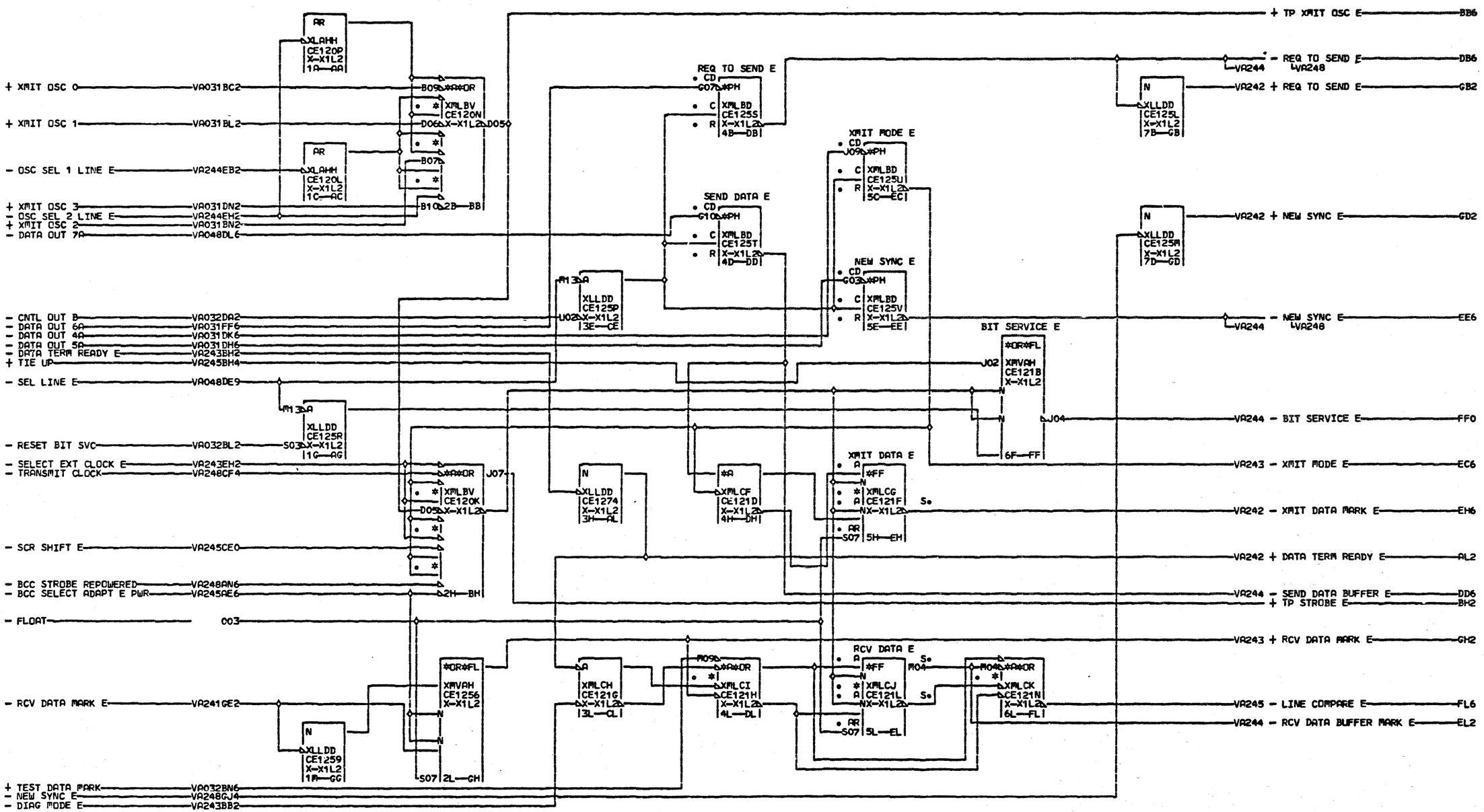


#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VAC000
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD					
DATE	04-22-81	MACH.	3705		VA245
LOG	237	FRAME	01		000
		P.N.	4499368		
IBM CORP.	SCD BLK.		GL		

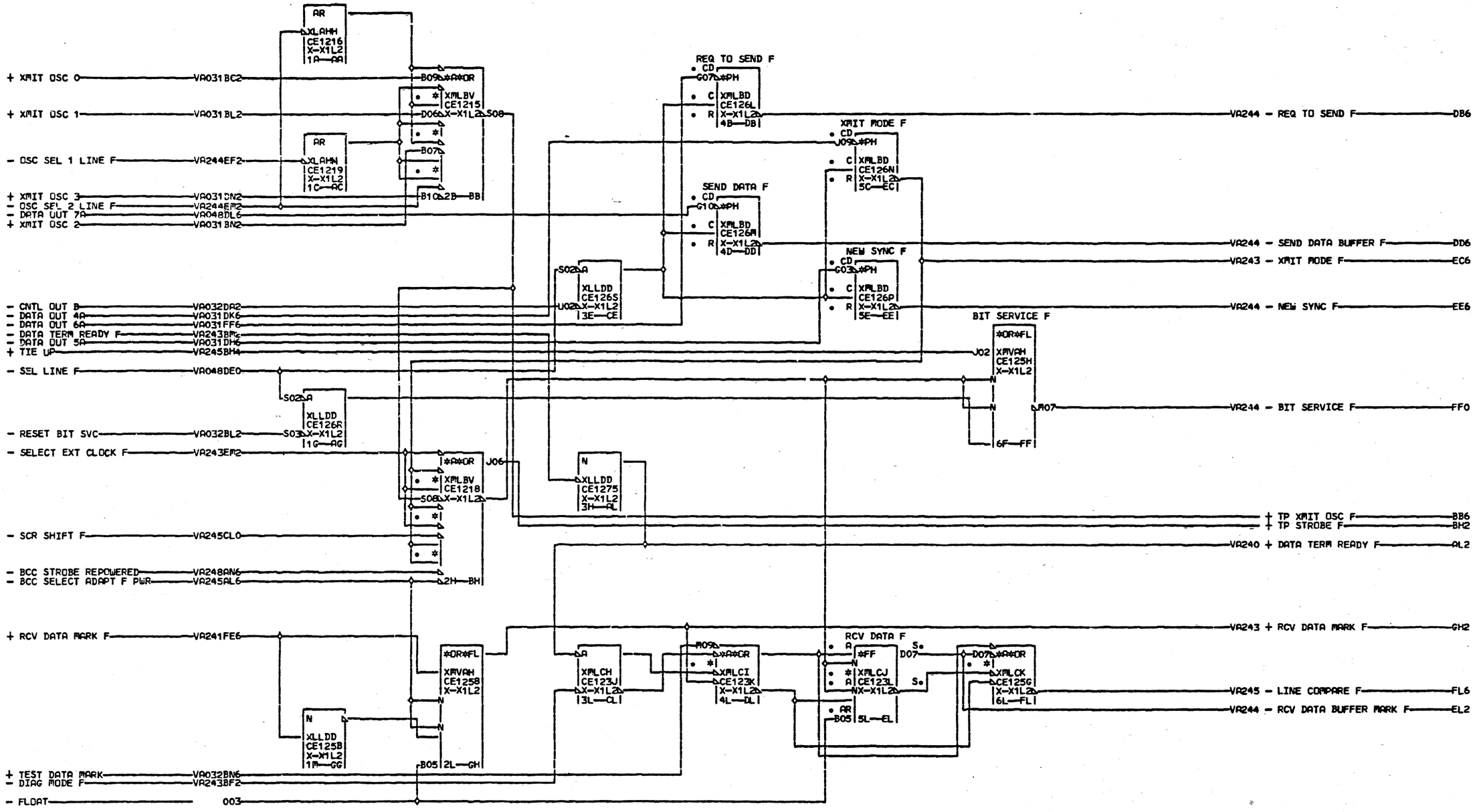


#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA000◊
#WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	MACH. 3705		VA246
LOG	228	FRAME	01	
		P.N.	4499369	
IBM CORP.	SCD BLK.		GJ	000



#NOTE
#LOGIC SHOWN IS FULL FEATURE
#BOARD WIRING WITH A LINE SET
#1 INSTALLED. FOR OTHER LINE
#SET TYPES REFER TO VA0000
WHICH REFERENCES THE
#APPLICABLE VB LOGICS FOR THE
#SPECIFIC LINE TYPE.

000

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD

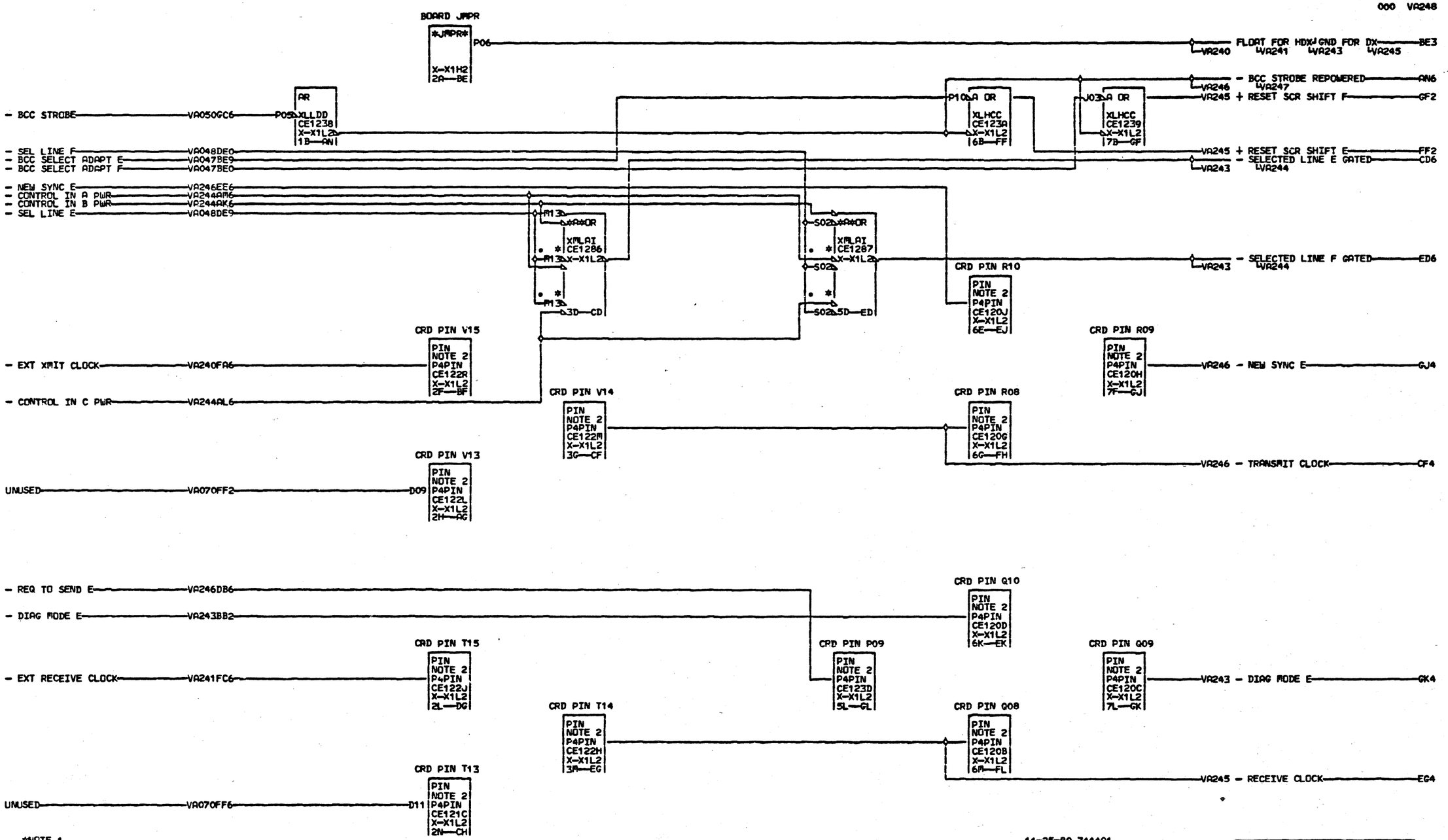
DATE 04-22-81 MACH. 3705

LOG 228 FRAME 01

P.N. 4499370

IBM CORP. SCD BLK. GJ

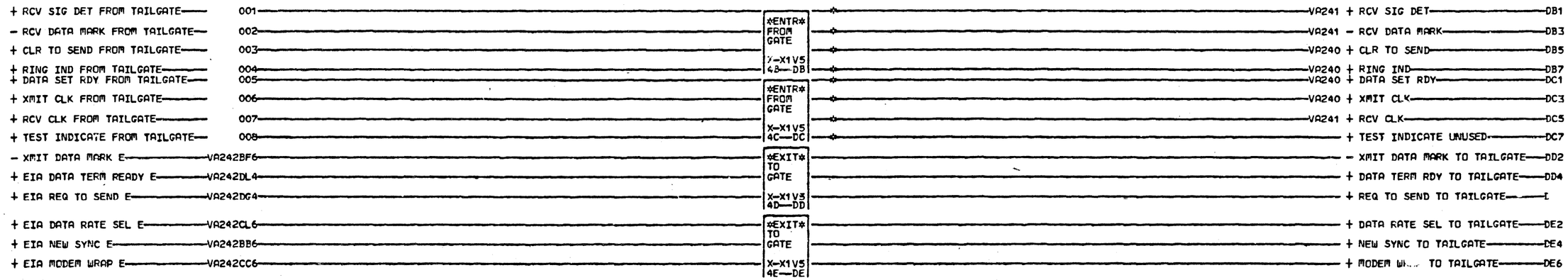
VA247 000



*NOTE 1
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA0000
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.
*NOTE 2
*REF VA004 FOR LS-1 CRD JMPRNG

11-25-80 344401
04-13-81 344852

LINE CONTROL CARD				
DATE	04-22-81	MACH. 3705		VA248
LOG	237	FRAME	01	
		P.N.	4499371	
IBM CORP.	SCD BLK.		GR	000



*NOTE
*LOGIC SHOWN IS FULL FEATURE
*BOARD WIRING WITH A LINE SET
*#1 INSTALLED. FOR OTHER LINE
*SET TYPES REFER TO VA000◊
*WHICH REFERENCES THE
*APPLICABLE VB LOGICS FOR THE
*SPECIFIC LINE TYPE.

DB1 X-X1V5D02
DB3 X-X1V5B04
DB5 X-X1V5B05
DB7 X-X1V5D05
DC1 X-X1V5B08
DC3 X-X1V5B10
DC5 X-X1V5B13
DC7 X-X1V5D13

000

11-25-80 344401

LINE INTERFACE CABLE
DATE 12-02-80 MACH. 3705
LOG 965 FRAME 01
P.N. 4499372
IBM CORP. SCD BLK. DF

VA252 000