

Le 3 Mai 1992

PS-CO Note 92-11

TIMING

DE LA

RADIO FREQUENCE DU CPS

-----I-----I-----I-----

Jean PHILIPPE

INTRODUCTION

Cette note est issue du " LAYOUT DE L'INTERFACE DE CONTROLE POUR LA RADIOFREQUENCE DU PS. " de G.P BENINCASA et de G.SURBACK datée de Novembre 1984.

Elle comporte les modifications d'impulsions et de noms faites jusqu'à ce jour. Elle se présente par système RF groupant plusieurs impulsions afin de mieux suivre le cheminement des impulsions.

La recherche d'une impulsion peut se faire en connaissant soit le système (liste pages 2-3), soit par no d'Equipment Module ou par nom (pages 4-8).

Toutes erreurs ou omissions peuvent m'être indiquées afin de tenir ce document à jour.

LISTE DES SYSTEMES RF

9.5 MHZ RF TIMING

SYSTEME	PLT.NAME	PAGE
BEAM CONTROL H 6-20	BC6-20	11
BEAM CONTROL H = 10	BC10	12
HARMONIQUES FOR PBAR	HPBAR	13
BEAM LOADING COMPENSATION	BLC	14
EXTERNAL FREQUENCY SYNCHRO	EFSSPS	15
LONGITUDINAL FEEDBACK	LFB	16
DEBUNCHING SLOW EJECTION	DSE	17
SWITCHING	SWITCHING	18
HE/LE VRF	HE-LE	19
GAP RELAYS	GAP1-4	20
GAP RELAYS	GAP5-7	21
LONGITUDINAL MERGING	LONGMERG	22
ADIABATIC REDUCTION	AFGAR	23
RADIAL LOOP GAIN	RLG	24
EXT FREQUENCY SYNCHRO 6-20	EFS6-20	25
BUNCH COMPRESSION	FFGBC	26
HEREWARD DAMPING	HD	27
LOW ENERGY BLOW-UP	AFGREDBU	28
FREQUENCY MEASURE	FREQ	29
HARMONIC JUMP	AFGHJ	30
RF SWITCHES	RFSWITCH	31
FUNCTION GENERATOR MD	AFGMD	32
MACHINE DEVELOP.	MD	33
PS MD	AFGPSMD	34

LISTE DES SYSTEMES RF

114 MHZ RF TIMING		
SYSTEME	PLT.NAME	PAGE
FERRITE TUNING LOOP	114FT	36
AFGV240 DEPH.	AFGV240	37
LIGTH IONS	20LI	38
EXT. FREQ. SYNCHRO	EFSEP	39
GAP LEP INJ	114E1	40
H V 240	HV240	41
DIVERS	POSIT	42
200 MHZ RF TIMING		
BLOW-UP	AFGBU1-2	43
BLOW-UP	AFGBU3-4	44
REBUNCHING H=420	FFGREB	45
VOLTAGE MEASUREMENT	VOLT-MEAS	46
FUNCTION GENERATORS		
AFG INIT/STOP P.R	AFGINIT	50
AFG TIMING	AFGTIM1	51
AFG TIMING	AFGTIM2	52
AFG TIMING	AFGTIM3	53
FFG TIMING	FFGTIM	54

LISTE DES EQUIPEMENT-MODULE

E.M	EQUIPEMENT NAME	PAGE
91	PX.SGAP114M	40
92	PX.SAFGV240	37
93	PX.SEFSEP	39
94	PX.SAFGMD1	32
95	PX.SPOSIT	42
96	PX.SDFREP	42
97	PX.S1PLEP	40
98	PX.S1PLEP	40

E.M	EQUIPEMENT NAME	PAGE
176	PX.SJH6	30
177	PX.SJH10	30
178	PX.EBC10	12
179	PX.SDFR10	12
180	PX.SH8	40
181	PX.SJHY	11
182	PX.SSEFS20	25
183	NOT USED	

E.M	EQUIPEMENT NAME	PAGE
160	PX.SHD20	27
161	PX.SLFB	16
162	PX.SVLE	19
163	PX.SVHE	19
164	PX.SHE/LE	19
165	PX.SAD	23
166	PX.SLM	22
167	PX.SBR+DSE	17

E.M	EQUIPEMENT NAME	PAGE
186	PX.SREDBU1	28
187	PX.SAFGVTRCYC1	32
188	PX.SH240	41
189	PX.SMD1	38
190	PX.SMD2	33
191	PX.SVTRCYC1	32
192	PX.SSEPIONS	38
193	PX.SBU1	43

E.M	EQUIPEMENT NAME	PAGE
168	PX.SFP20	16
169	PX.SSEFS6	25
170	PX.SEFSSPS	15
171	PX.SHD6+12	27
172	PX.EHD6+12	27
173	PX.SJH12	30
174	PX.SFLG6+12	24
175	PX.SDFR6+12	24

E.M	EQUIPEMENT NAME	PAGE
194	PX.SBU2	43
195	PX.SBU3	44
196	PX.SBU4	44
197	PX.SREB1	45
198	PX.SREB2	45
199	PX.SREDBU2	28
200	PX.SH6PBAR	13
201	PX.SH10PBAR	13

LISTE DES EQUIPEMENT-MODULE

E.M	EQUIPEMENT NAME	PAGE
202	PX.SVHJ1	30
203	PX.SVHJ2	30
204	PX.SVHJ3	30
205	PX.SVRLG20	24
206	PX.EAD	23
207	PX.SAD1	23
208	PX.SVAD1	23
209	PX.SVAD2	23

E.M	EQUIPEMENT NAME	PAGE
226	PX.EGAP4	20
227	PX.SGAP4	20
228	PX.EGAP5	21
229	PX.SGAP5	21
230	PX.EGAP6	21
231	PX.SGAP6	21
232	PX.EGAP7	21
233	PX.SGAP7	21

E.M	EQUIPEMENT NAME	PAGE
210	PX.SVAD3	23
211	PX.SAD2	23
212	PX.SVREDBU1	28
213	PX.SVTRCYC1	32
214	PX.S1V240	41
215	PX.S2V240	41
216	PX.EV240	41
217	NOT USED	

E.M	EQUIPEMENT NAME	PAGE
234	PX.AV200	46
235	PX.ADV200	46
236	NOT USED	
237	NOT USED	
238	PX.SBC10	12
239	PX.EDBC10	12
240	PX.SDFP20	16
241	PX.SBC420	45

E.M	EQUIPEMENT NAME	PAGE
218	NOT USED	
219	NOT USED	
220	PX.EGAP1	20
221	PX.SGAP1	20
222	PX.EGAP2	20
223	PX.SGAP2	20
224	PX.EGAP3	20
225	PX.SGAP3	20

E.M	EQUIPEMENT NAME	PAGE
242	PX.SPL20	11
243	NOT USED	44
244	PX.ELFB	16
245	PX.SSW3.5GEH10	18
246	PX.SS800ME	18
247	PX.SSW3.5GEH6	18
248	PX.RTR	13
249	PX.SPJ12	11

LISTE DES EQUIPEMENT-MODULE

E.M	EQUIPEMENT NAME	PAGE
250	PX.SMD5	33
251	PX.SMD6	33
252	PX.SMD7	33
253	PX.SMD8	33
254	PX.SMD9	33
255	PX.SMD10	33
256	PX.SMD11	33
257	PX.SMD12	33

E.M	EQUIPEMENT NAME	PAGE
274	PX.FREB1	45
275	PX.FREB2	45
276	NOT USED	
277	NOT USED	
278	NOT USED	
279	NOT USED	
280	PX.SVBU1	43
281	PX.EVBU1	43

E.M	EQUIPEMENT NAME	PAGE
258	NOT USED	
259	NOT USED	
260	PX.SD1SMB	31
261	PX.SD2SMB	31
262	PX.SD1SMC	31
263	PX.SD2SMC	31
264	PX.SD1SMD	31
265	PX.SD2SMD	31

E.M	EQUIPEMENT NAME	PAGE
282	PX.SVBU2	43
283	PX.EVBU2	43
284	PX.SVBU3	44
285	PX.EVBU3	44
286	PX.SVBU4	44
287	PX.EVBU4	44
288	PX.SVREB1	45
289	PX.EVREB1	45

E.M	EQUIPEMENT NAME	PAGE
266	PX.SD1SME	31
267	PX.SD2SME	31
268	PX.SD1SMF	31
269	PX.SD2SMF	31
270	PX.FBU1	43
271	PX.FBU2	43
272	PX.FBU3	44
273	PX.FBU4	44

E.M	EQUIPEMENT NAME	PAGE
290	PX.SVREB2	45
291	PX.EVREB2	45
292	NOT USED	
293	NOT USED	
294	PX.SDM13	34
295	PX.SDM14	34
296	NOT USED	
297	NOT USED	

LISTE DES EQUIPEMENT-MODULE

E.M	EQUIPEMENT NAME	PAGE
304	PX.SBPM	22
305	PX.SDVLM1	22
306	PX.SBCOMP	22
307	PX.SEPSAC	22
308	PX.SBRAC	22
309	PX.SDRAC	22
310	PX.SD7LM	22
311	NOT USED	22

E.M	EQUIPEMENT NAME	PAGE
329	NOT USED	
330	NOT USED	
331	NOT USED	
332	PX.SDEFS6	25
333	PX.EEFS6	25
334	PX.SDEFS20	25
335	PX.EEFS20	25
336	PX.ASFREQ1	29

E.M	EQUIPEMENT NAME	PAGE
312	PX.SD1BC	26
313	PX.SD2BC	26
314	PX.SD3BC	26
315	PX.SD4BC	26
316	PX.SD1BR+DSE	17
317	PX.SD2BR+DSE	17
318	PX.SD3BR+DSE	17
319	PX.SD4BR+DSE	17

E.M	EQUIPEMENT NAME	PAGE
337	PX.AEFREQ1	29
338	PX.SD1EFSSPS	15
339	PX.SD2EFSSPS	15
340	PX.SD3EFSSPS	15
341	PX.SD4EFSSPS	15
342	PX.SFERQ	29
343	NOT USED	
344	PX.ASFREQ2	29

E.M	EQUIPEMENT NAME	PAGE
320	NOT USED	
321	NOT USED	
322	PX.ASLBP	31
323	PX.ADSLBP	31
324	PX.SDBLC2	43
325	PX.EDBLC2	43
326	PX.SDBLC3	44
327	PX.APMSPS	44

E.M	EQUIPEMENT NAME	PAGE
345	PX.AEFREQ2	29
346	NOT USED	
347	NOT USED	
348	PX.SH20LI	38
349	PX.SDH20LI	38
350	PX.SPL20LI	38
351	PX.EPL20LI	38
352	PX.SSWLIINJ	38

LISTE DES EQUIPEMENT-MODULE

E.M	EQUIPEMENT NAME	PAGE
353	PX.RTR20LI	38
354	PX.SVREDBU2	28
355	NOT USED	
356	PX.SD1FT114M	36
357	PX.E1FT114M	36
358	PX.SD2FT114M	36
359	PX.E2FT114M	36
360	PX.SDAFGV240	37

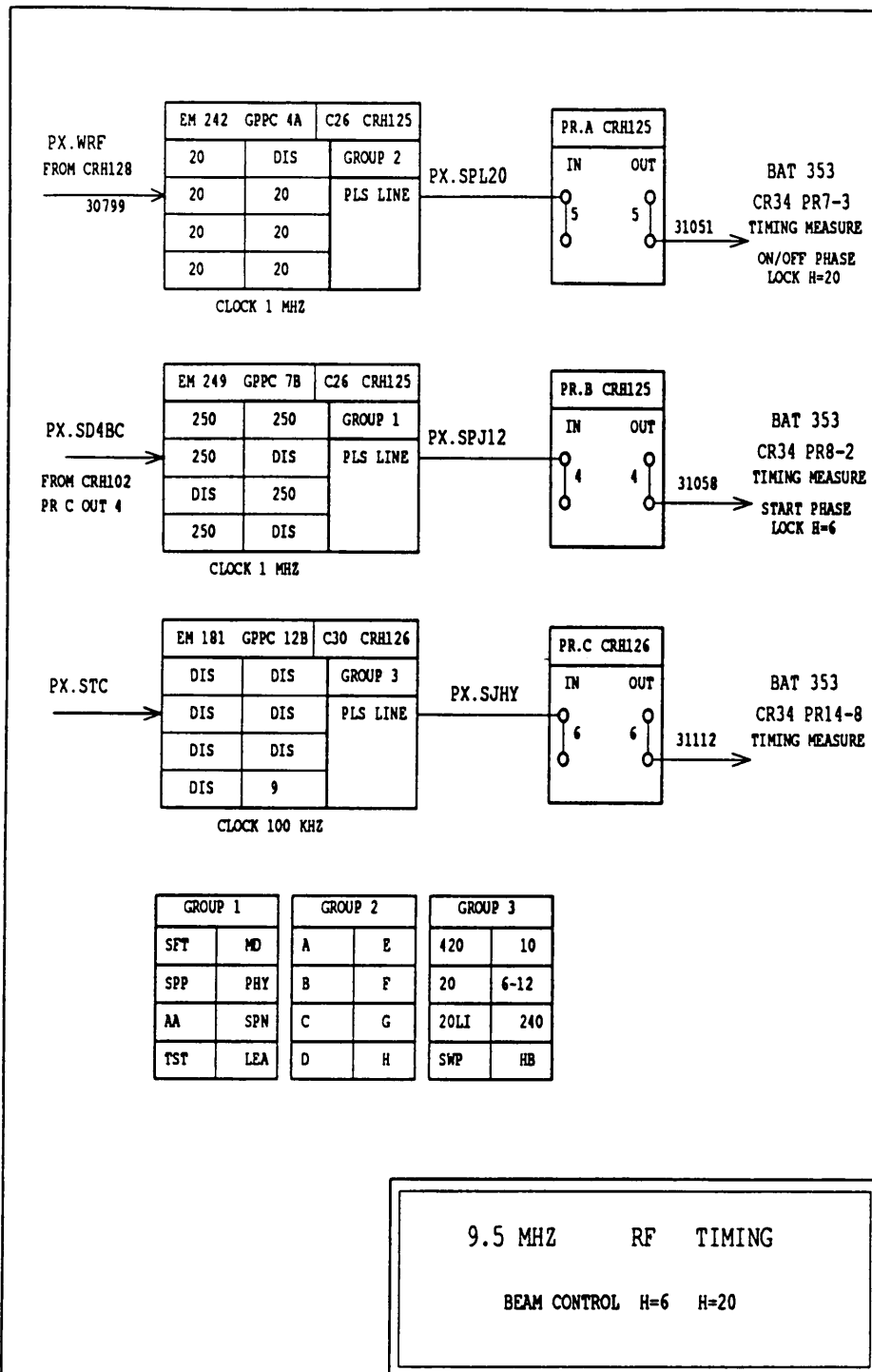
E.M	EQUIPEMENT NAME	PAGE

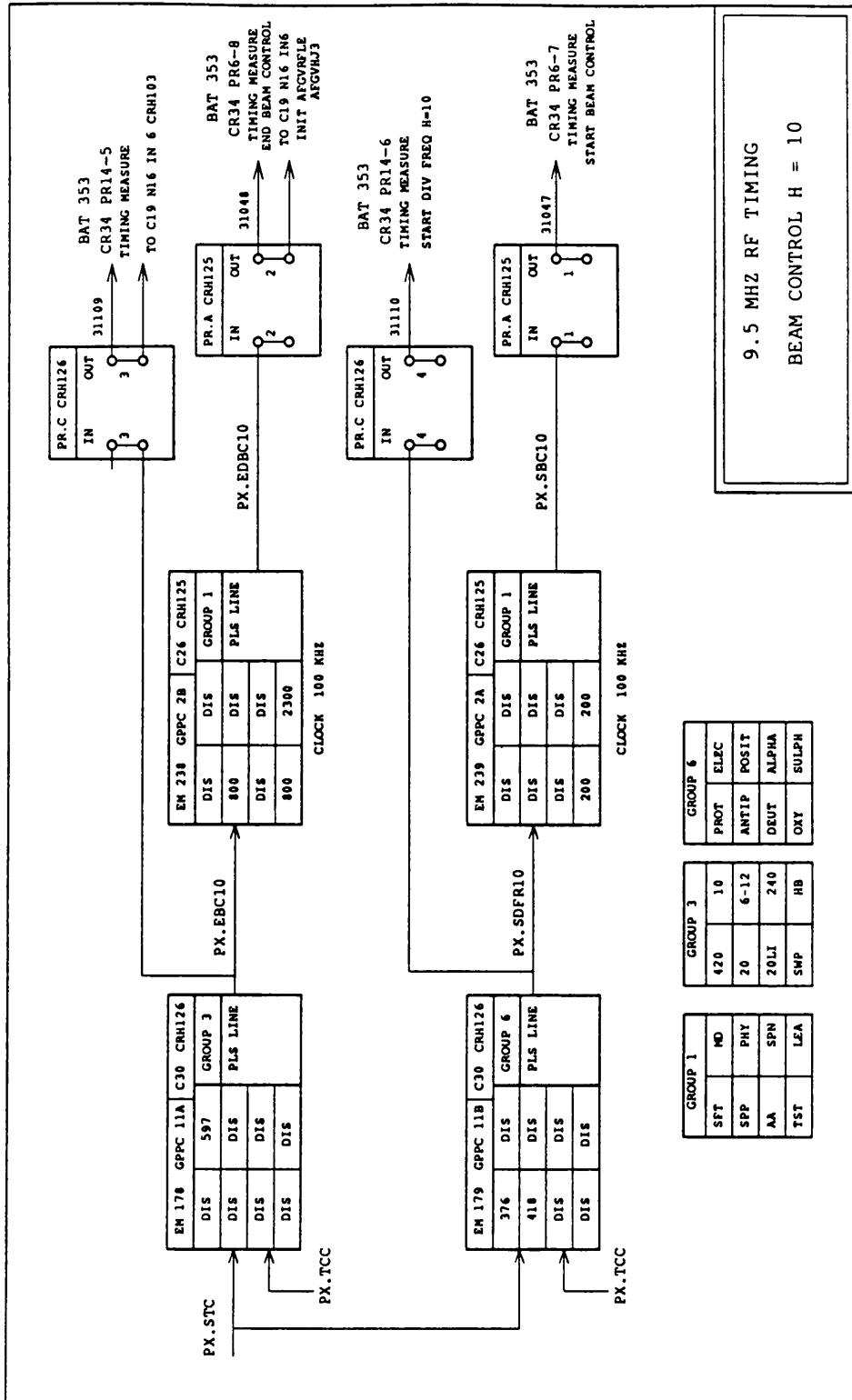
E.M	EQUIPEMENT NAME	PAGE
361	PX.S2DEPH240	37
362	PX.E1PLEP	40
363	PX.E2PLEP	40
364	PX.SVMD1	32
365	PX.SSWEPINJ	40
366	PX.SD1EFSEP	39
367	PX.SD2EFSEP	39
368	PX.SD3EFSEP	39

E.M	EQUIPEMENT NAME	PAGE

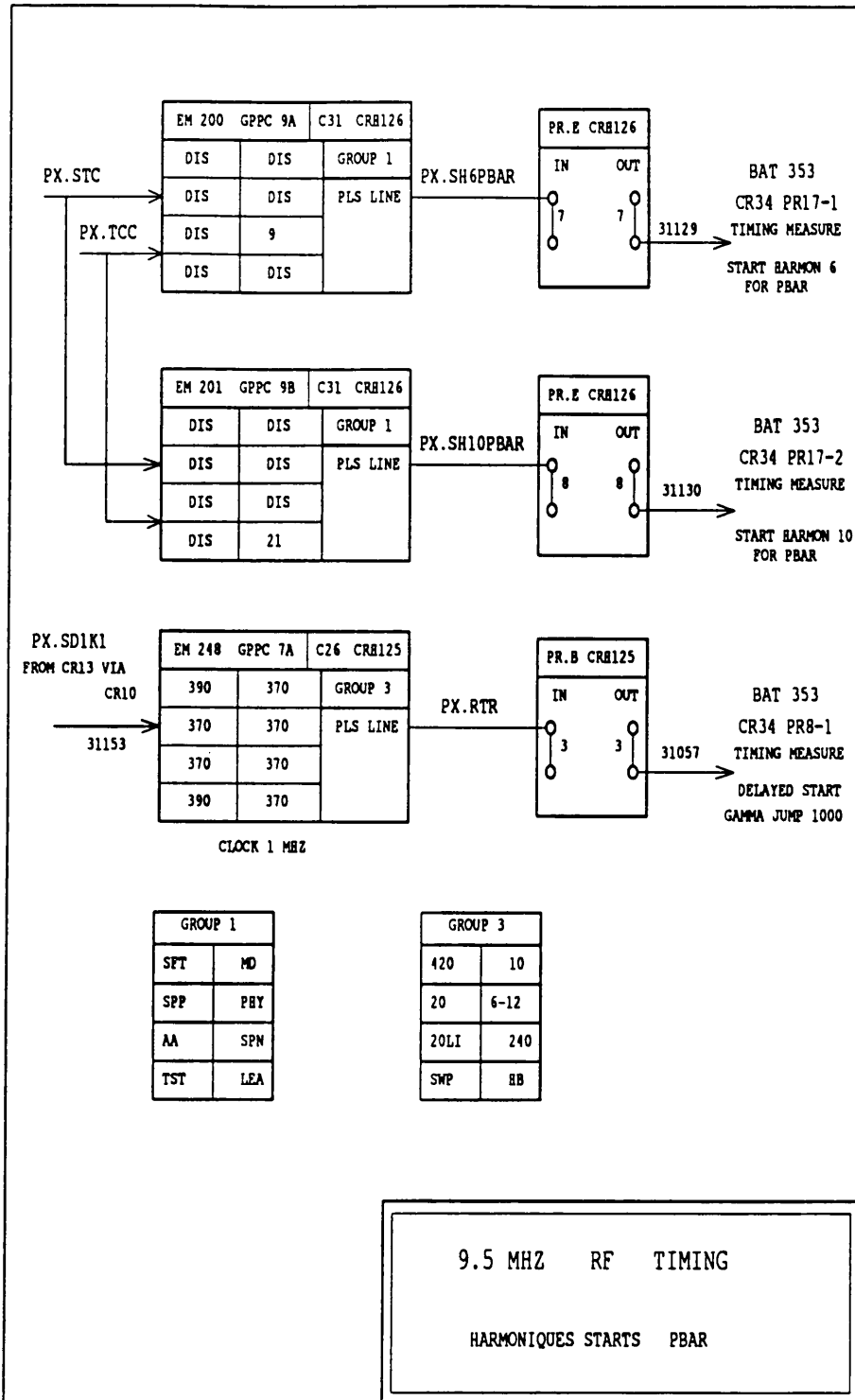
E.M	EQUIPEMENT NAME	PAGE
369	PX.SD4EFSEP	39
370	PX.SD5EFSEP	39
371	PX.SD6EFSEP	39
372	PX.SD7EFSEP	39
373	PX.SDGAP114M	40
374	NOT USED	
375	NOT USED	
376	NOT USED	

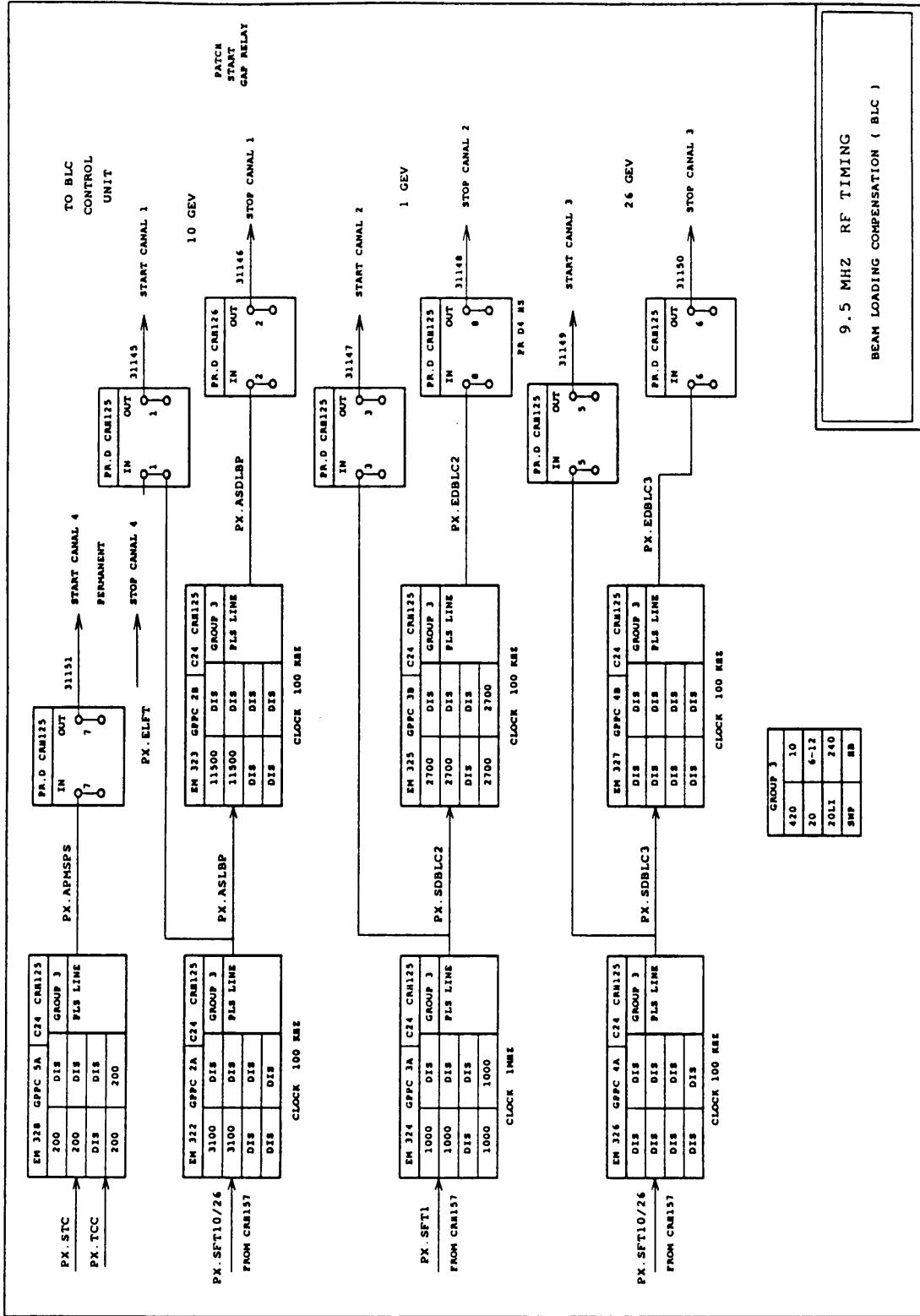
E.M	EQUIPEMENT NAME	PAGE



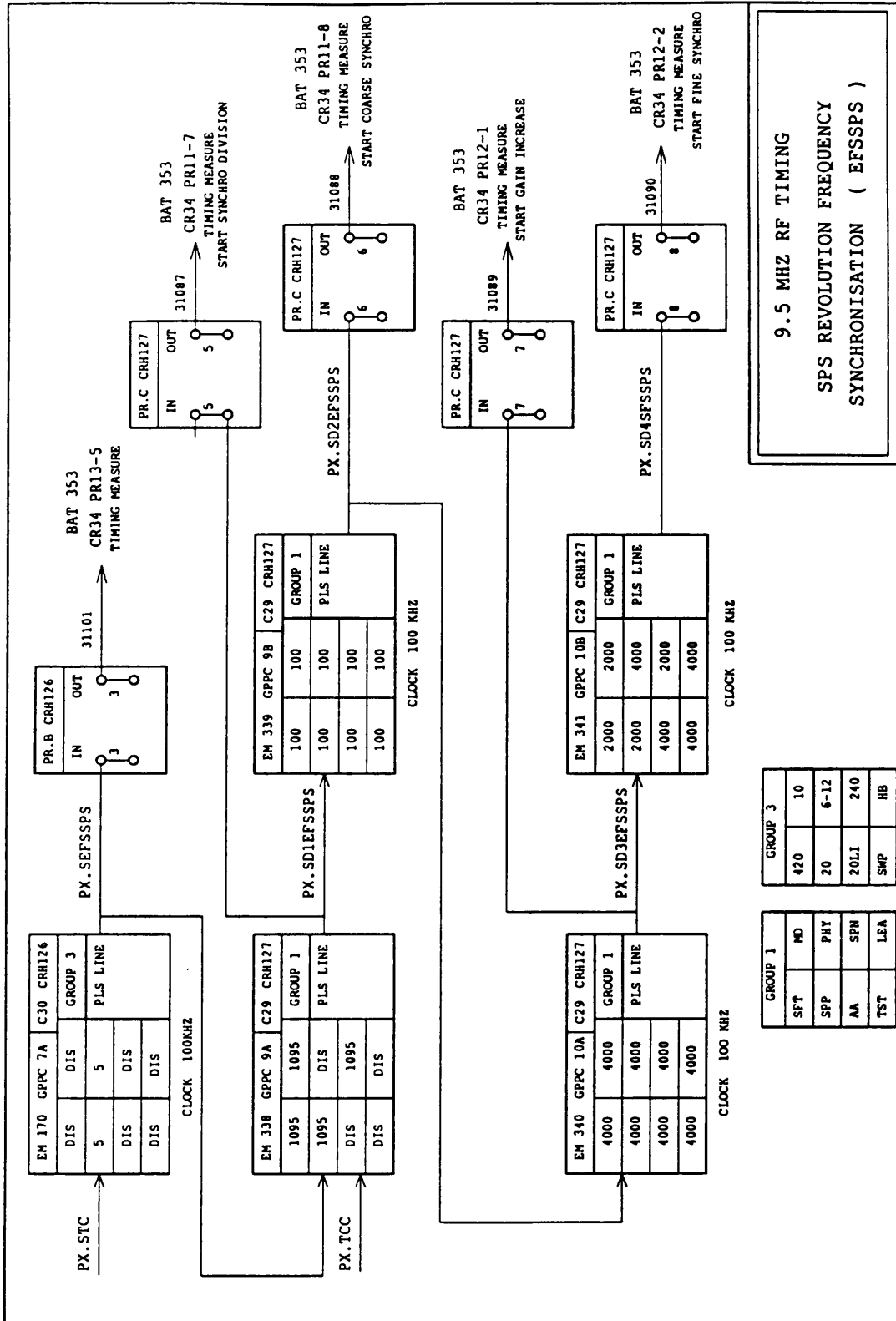


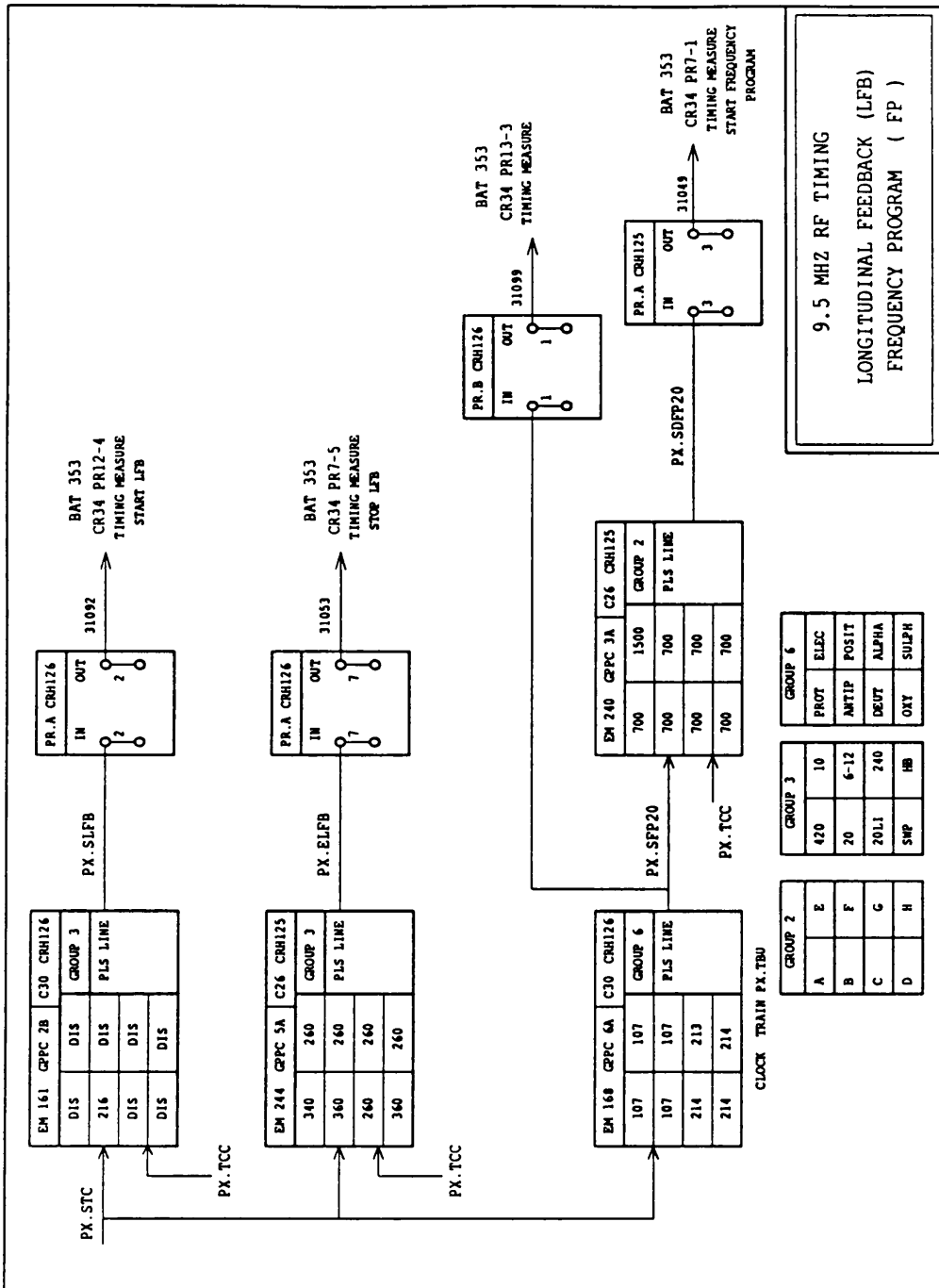
9.5 MHZ RF TIMING
BEAM CONTROL H = 10



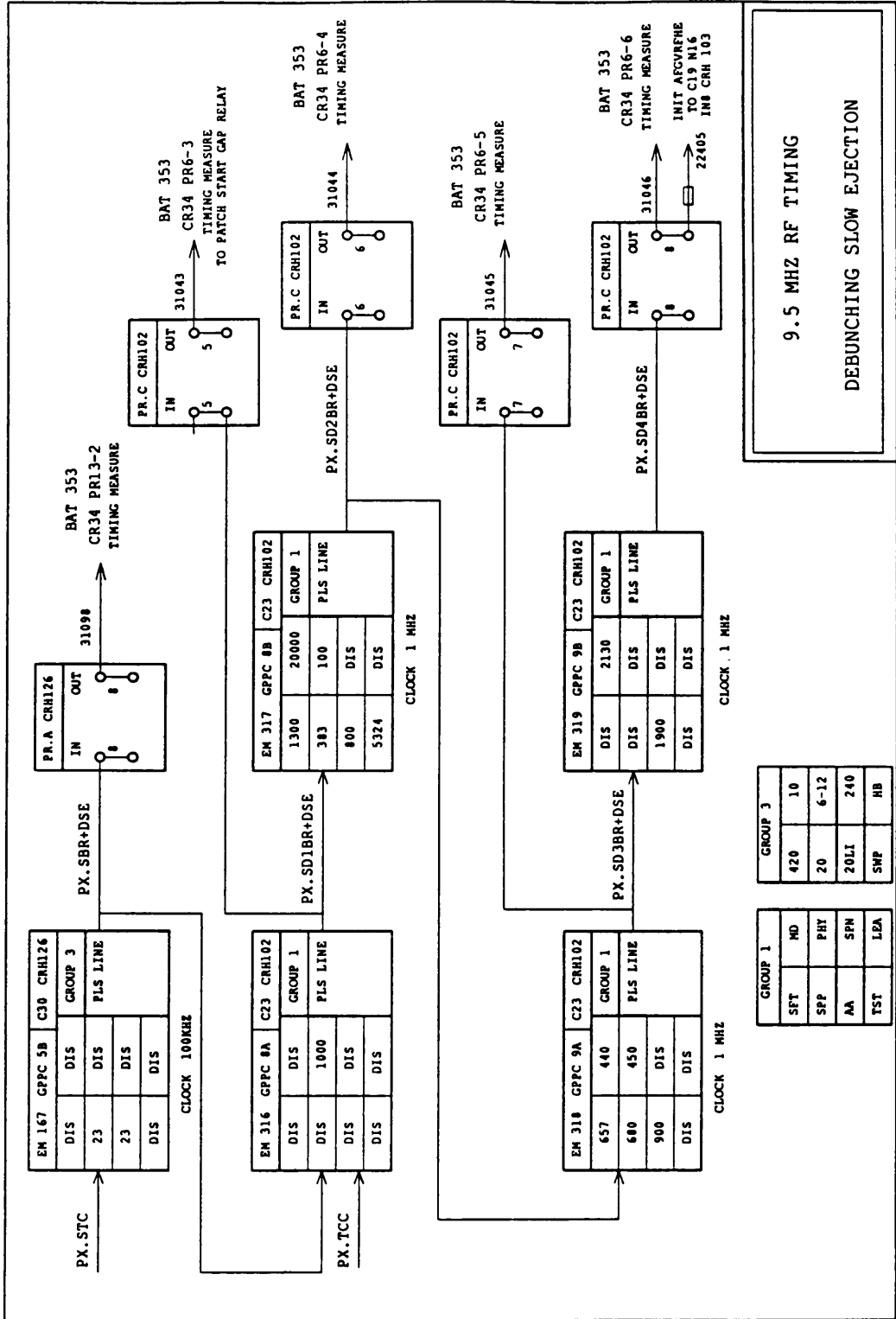


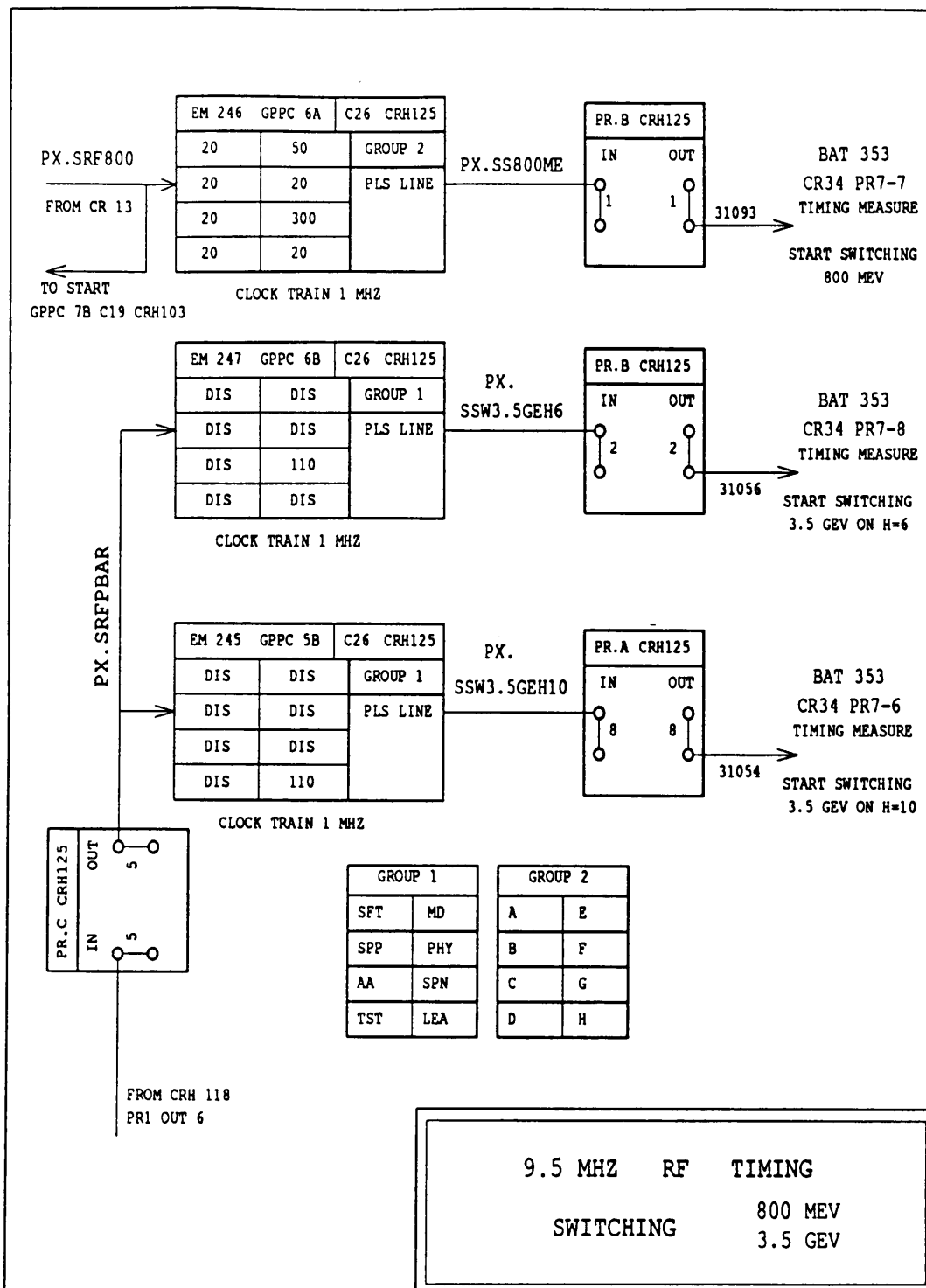
9.5 MHZ RF TIMING
BEAM LOADING COMPENSATION (BLC)

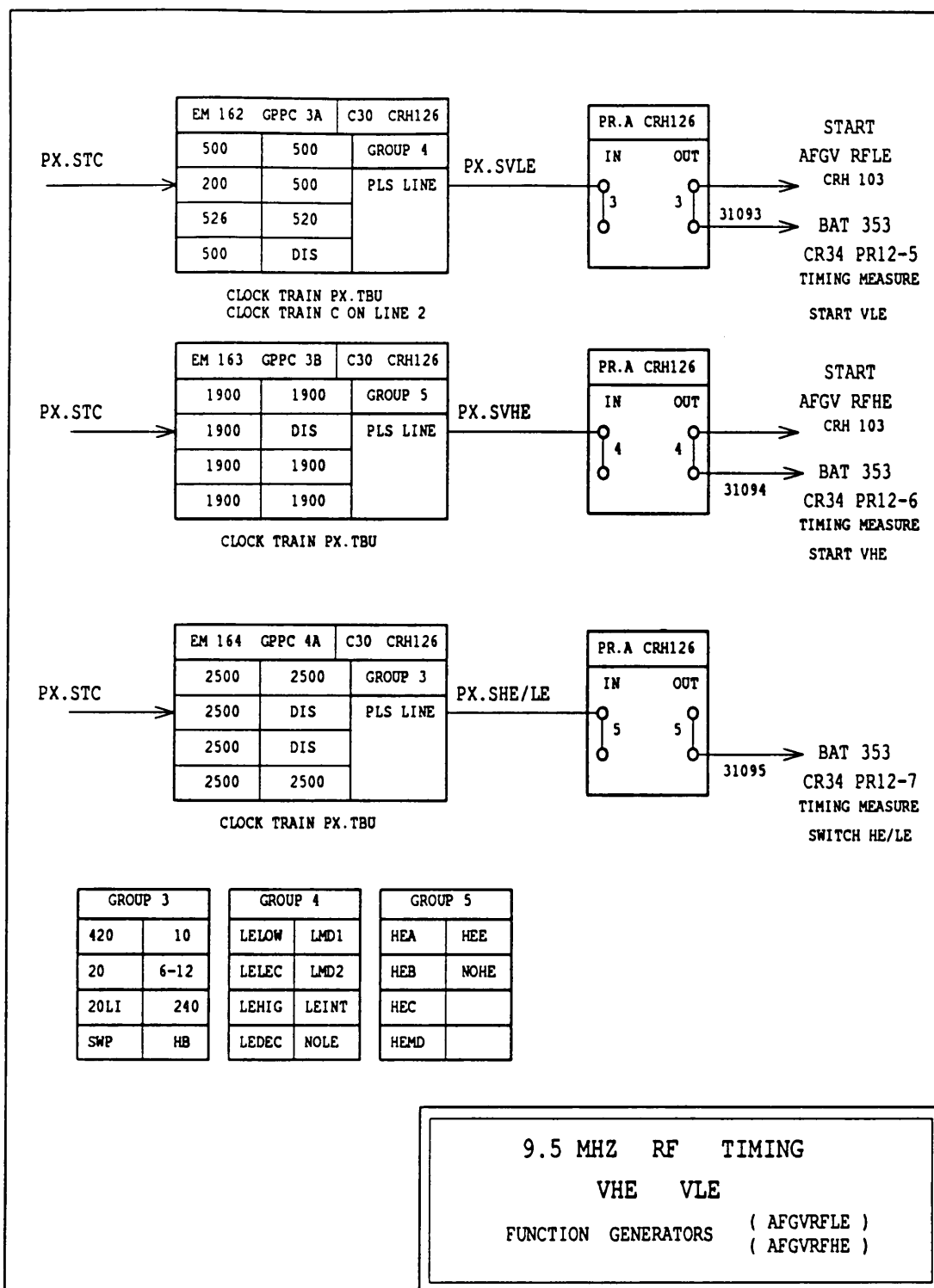


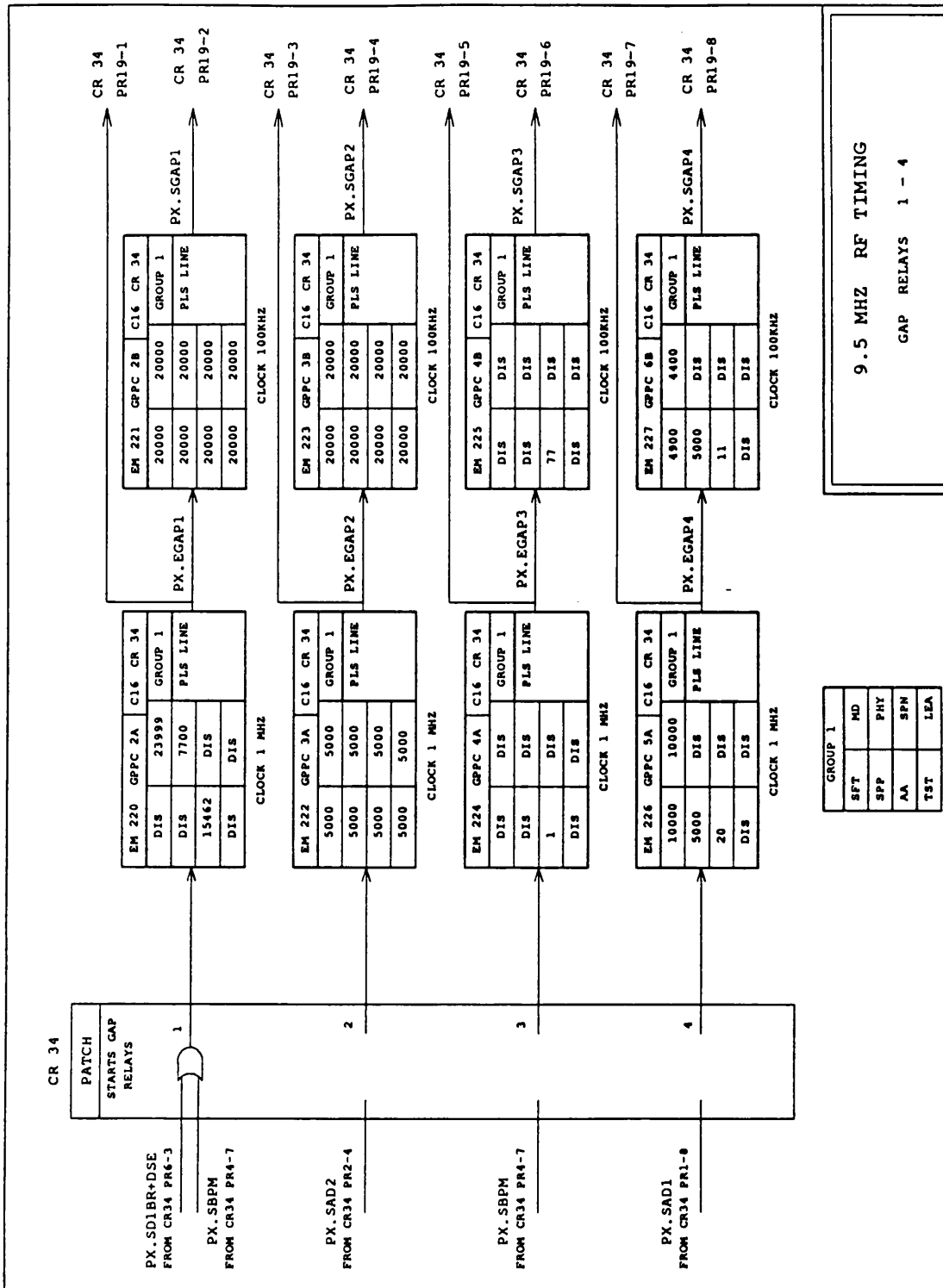


9.5 MHZ RF TIMING
 LONGITUDINAL FEEDBACK (LFB)
 FREQUENCY PROGRAM (FP)

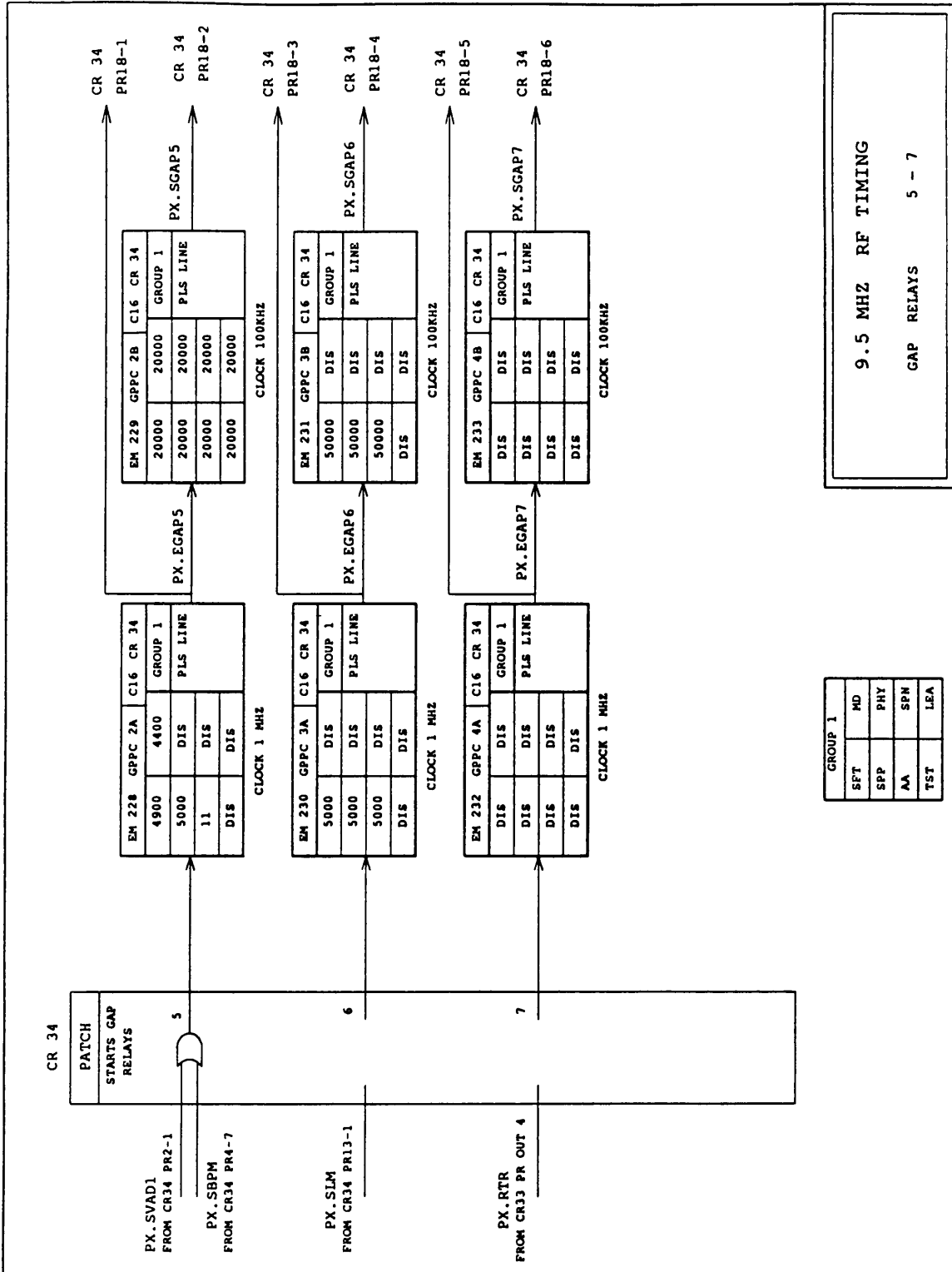




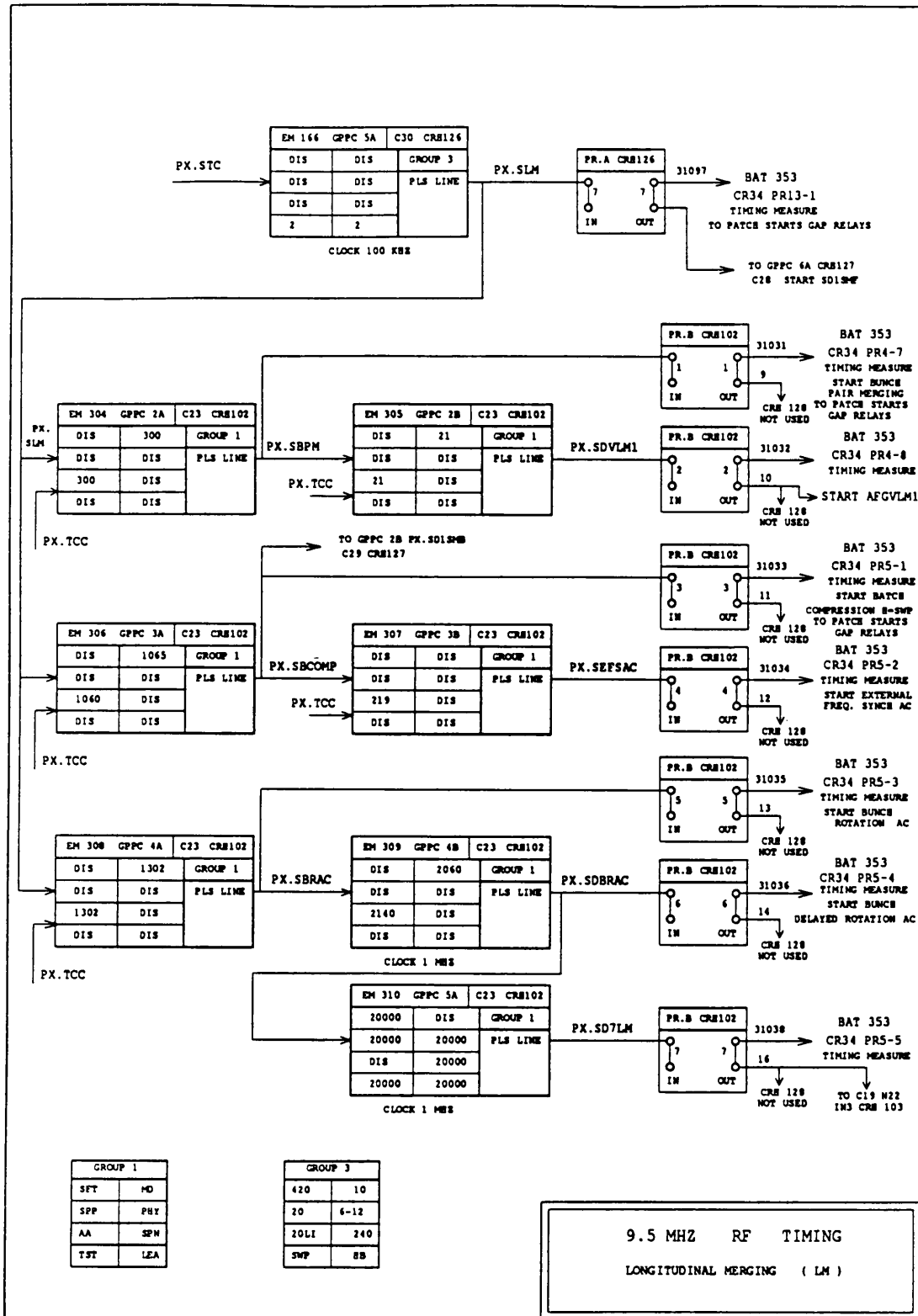


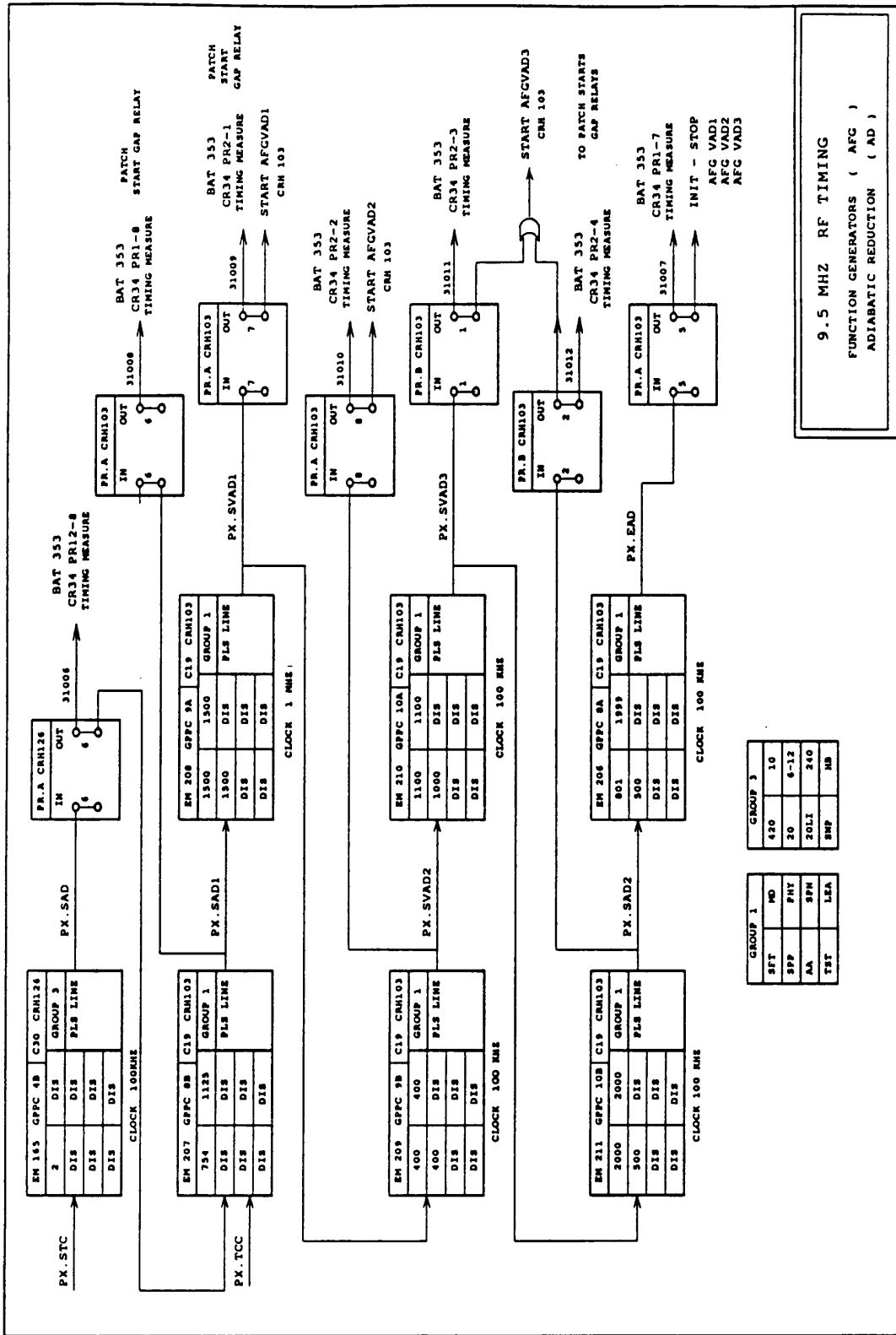


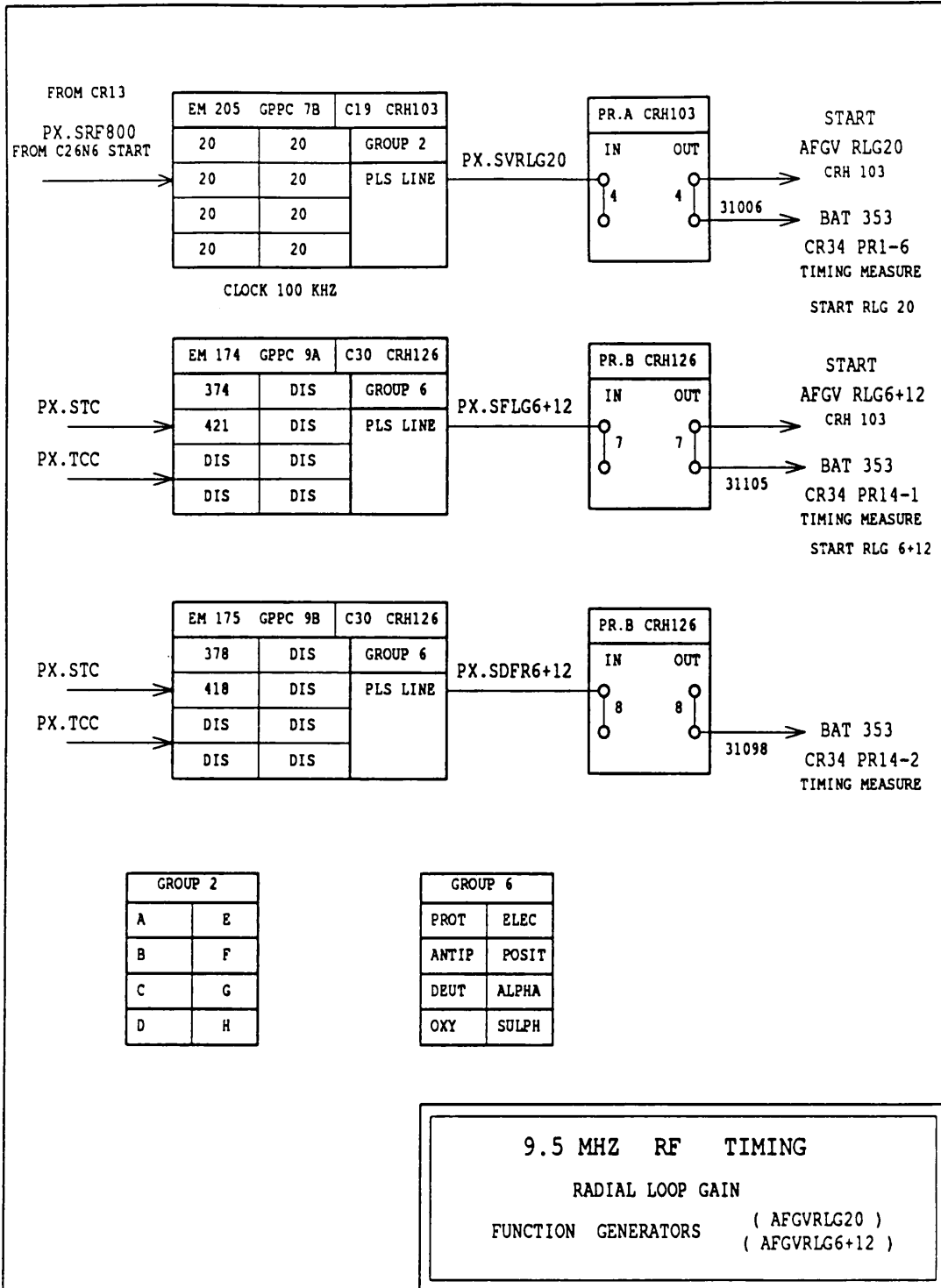
9.5 MHz RF TIMING
 GAP RELAYS 1 - 4

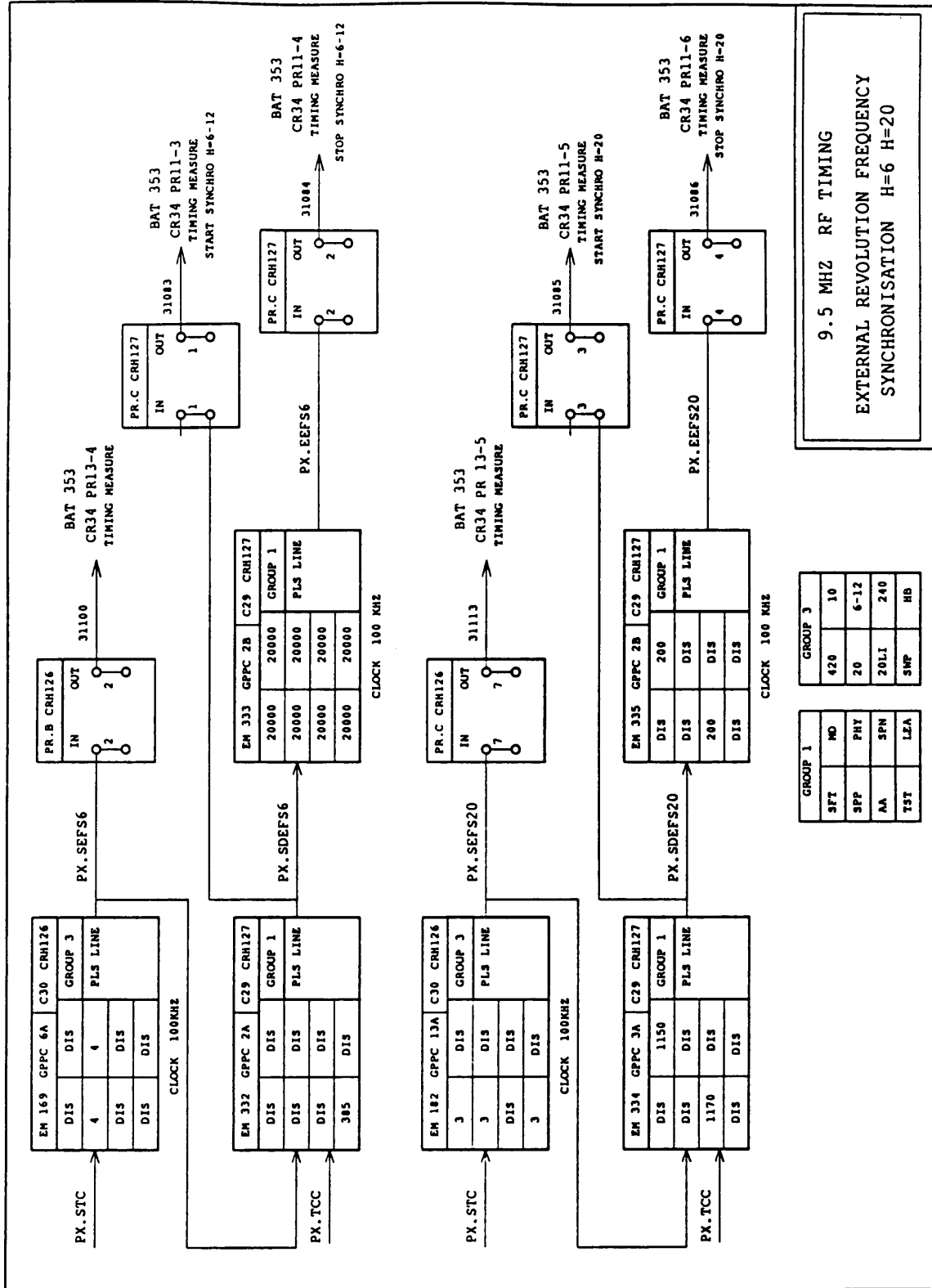


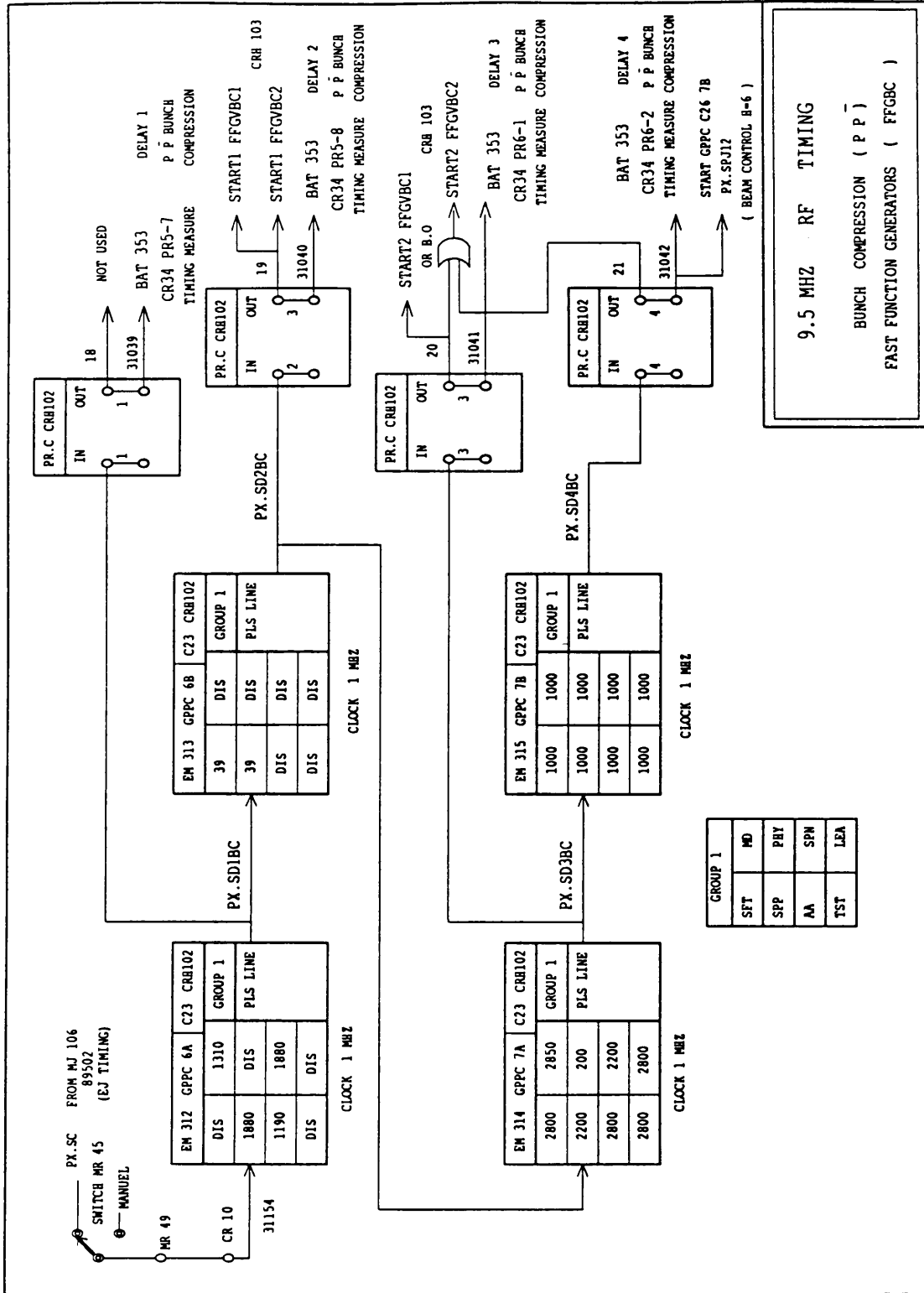
9.5 MHZ RF TIMING
GAP RELAYS 5 - 7

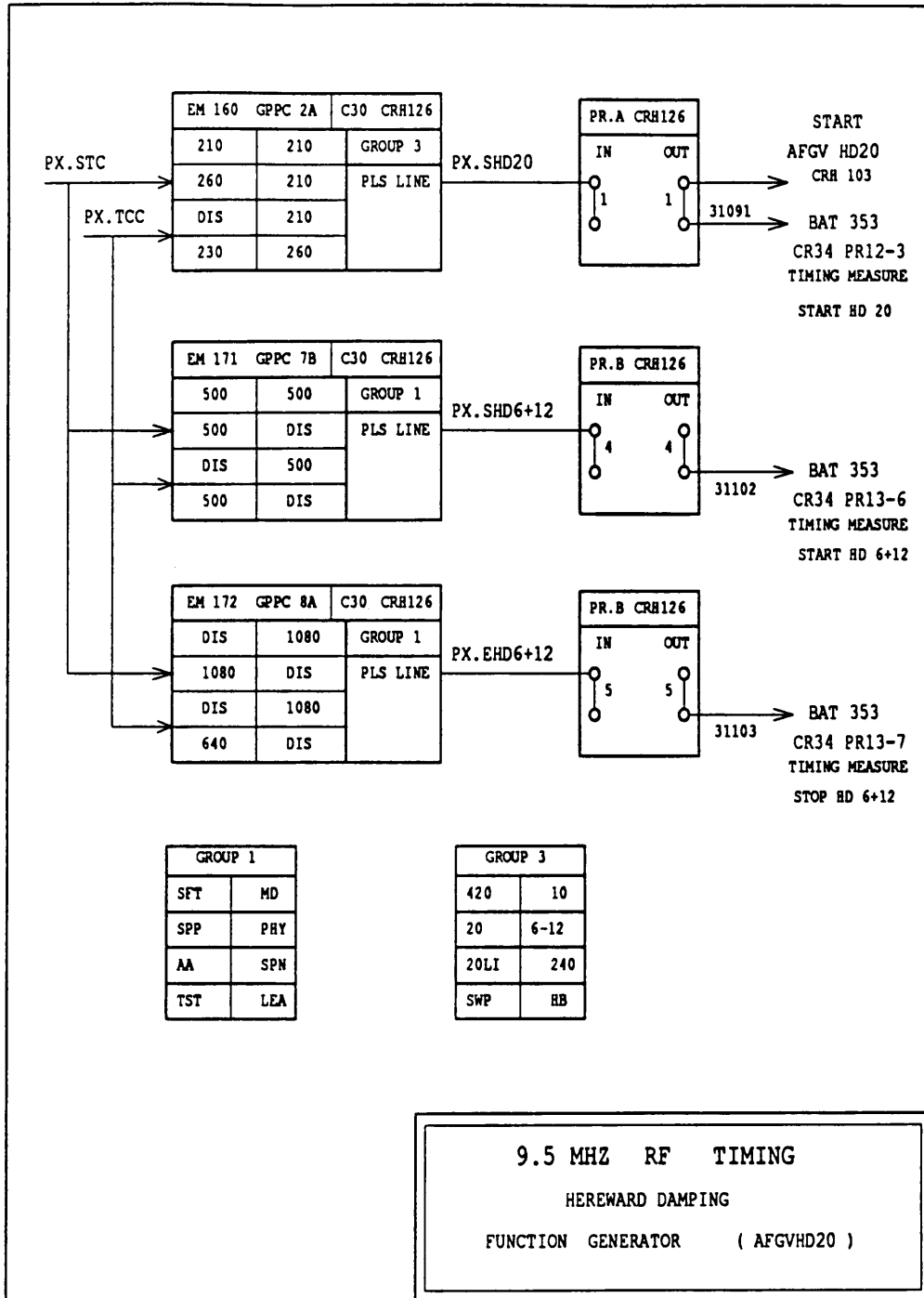


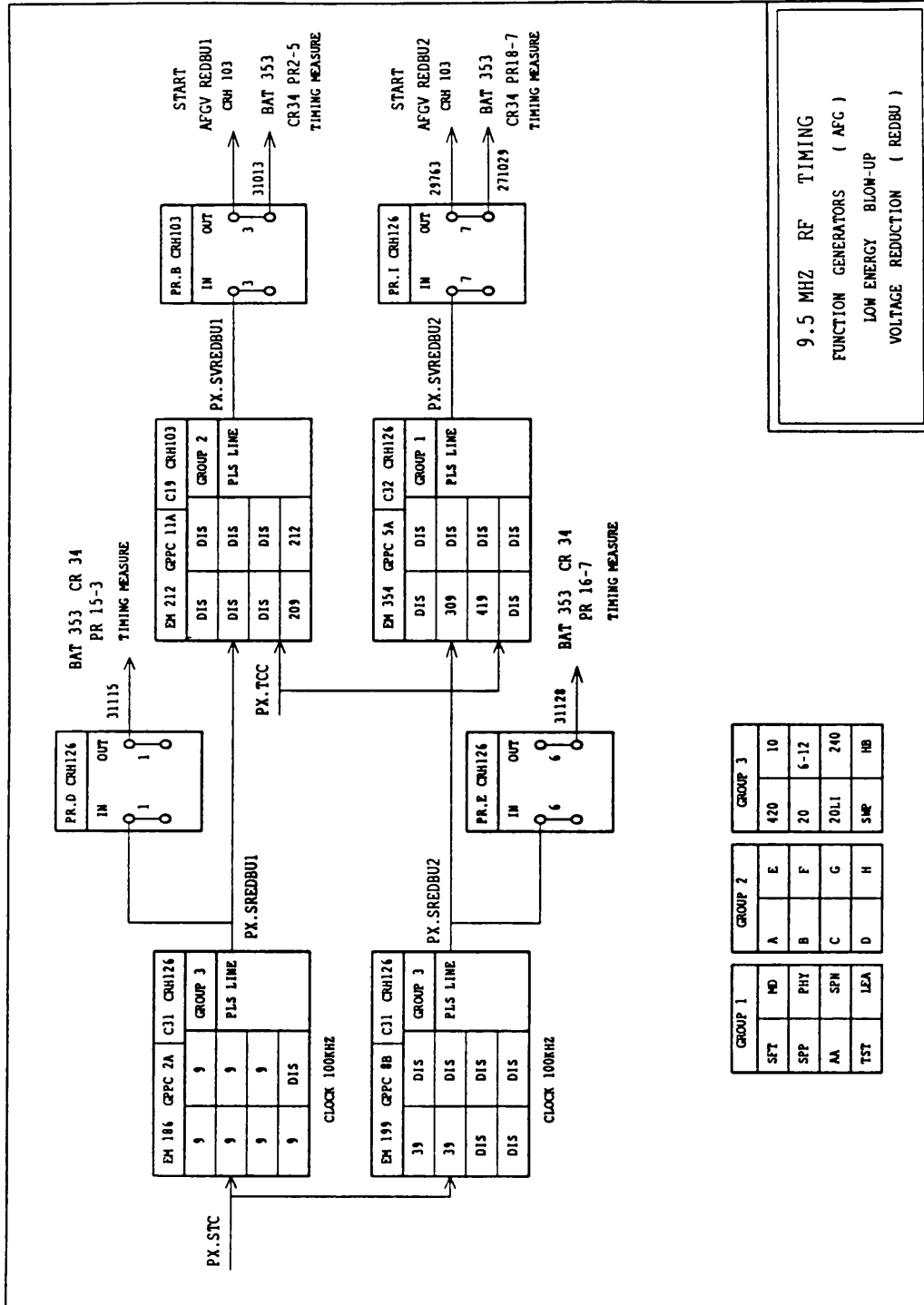


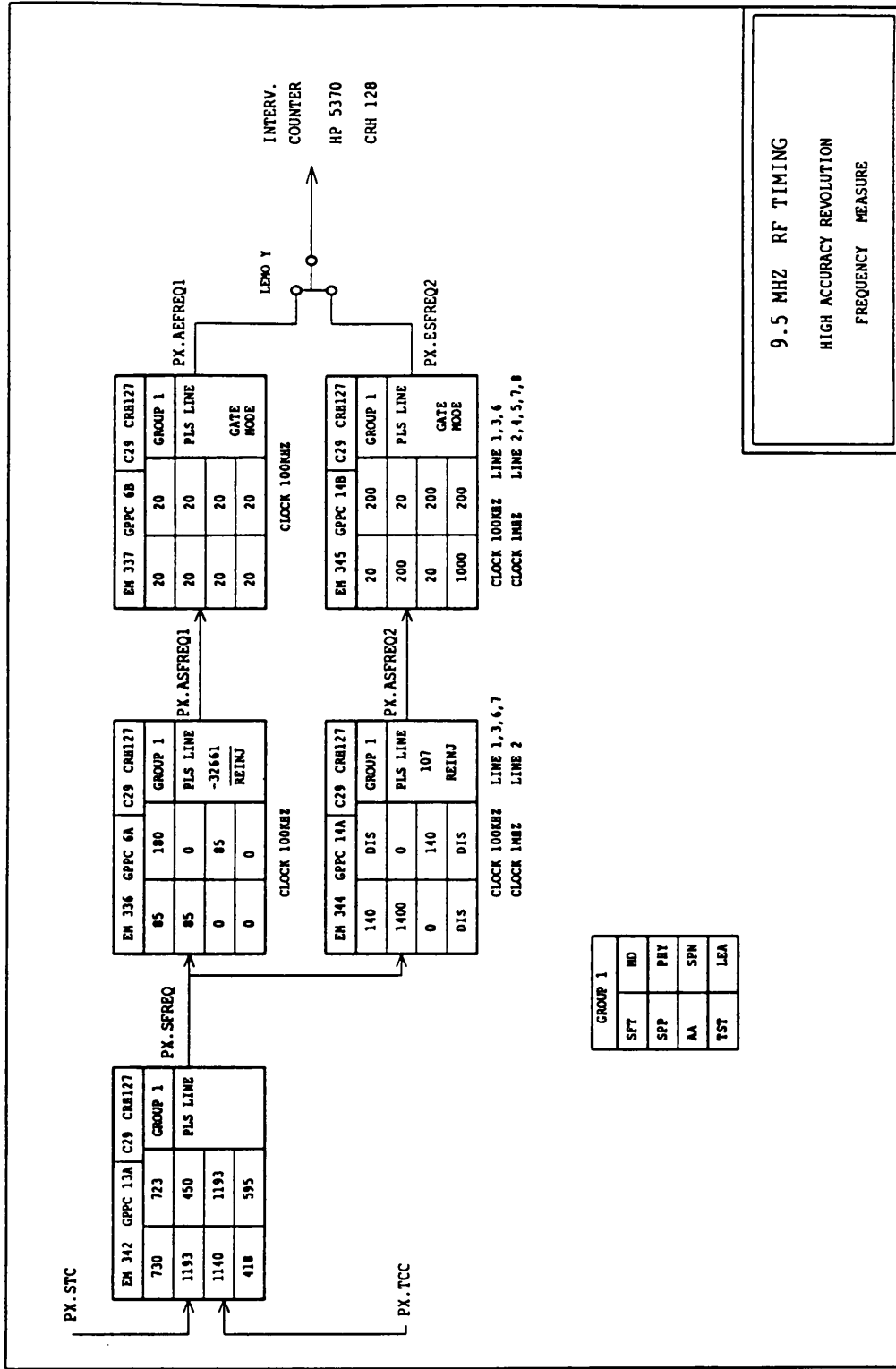


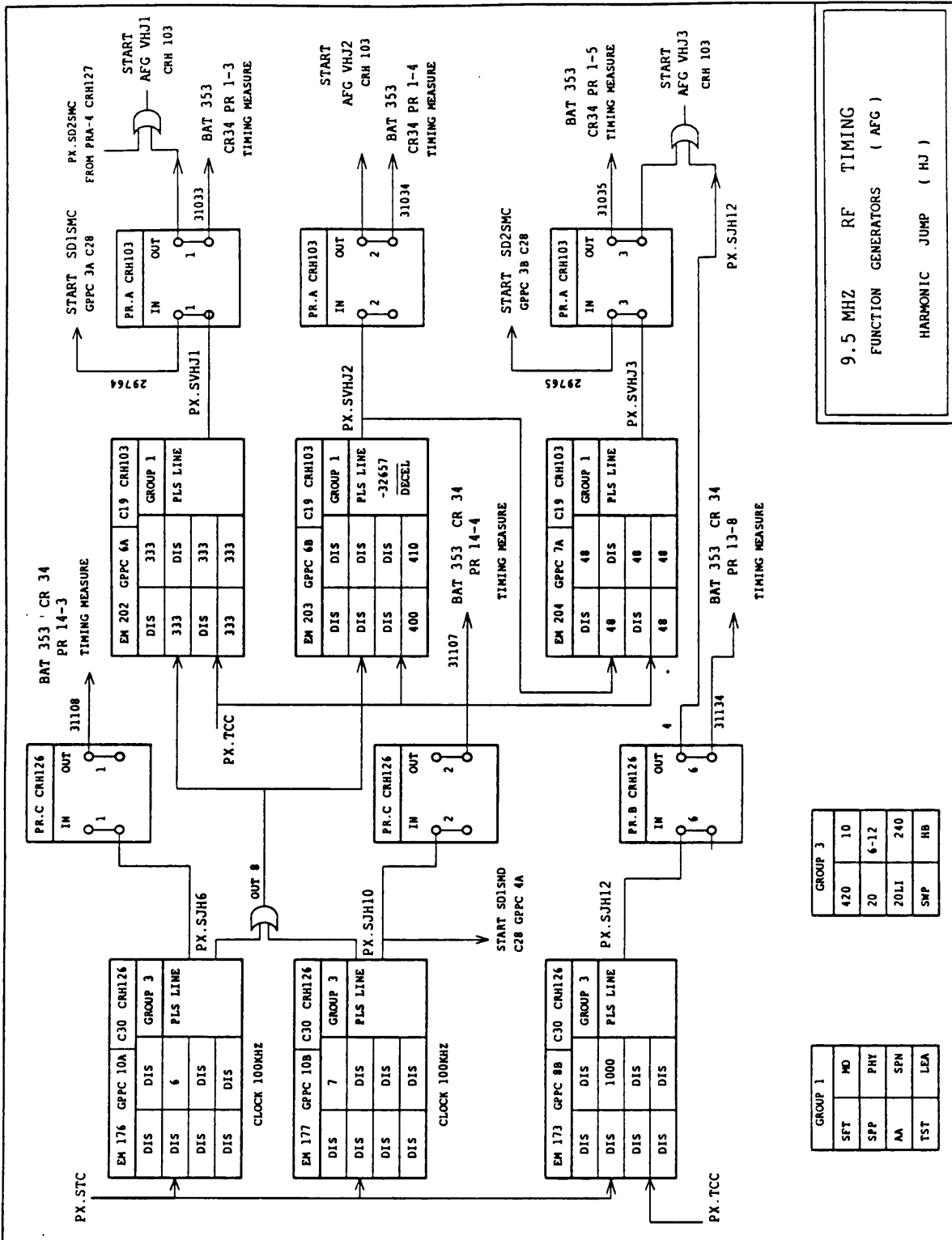




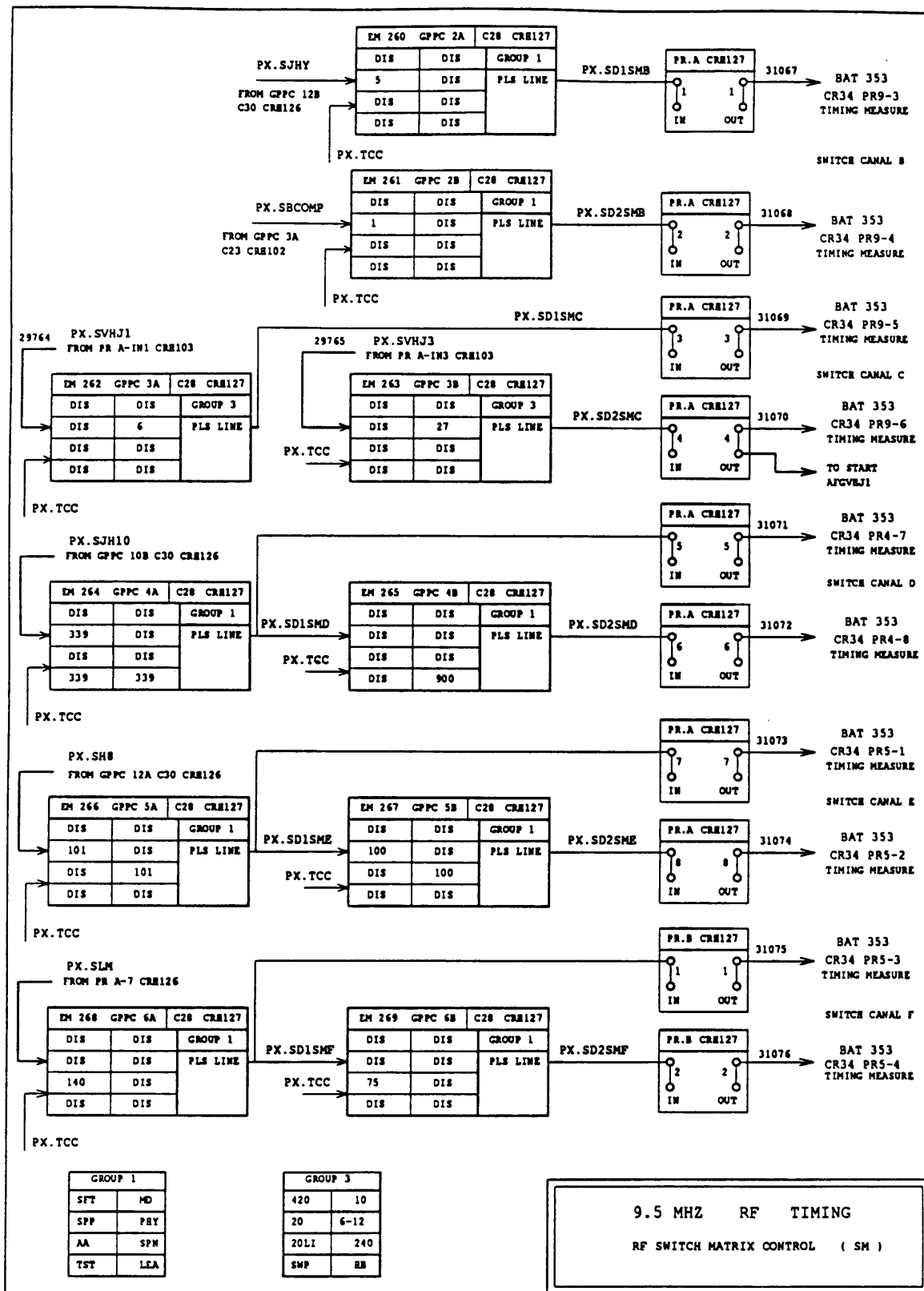


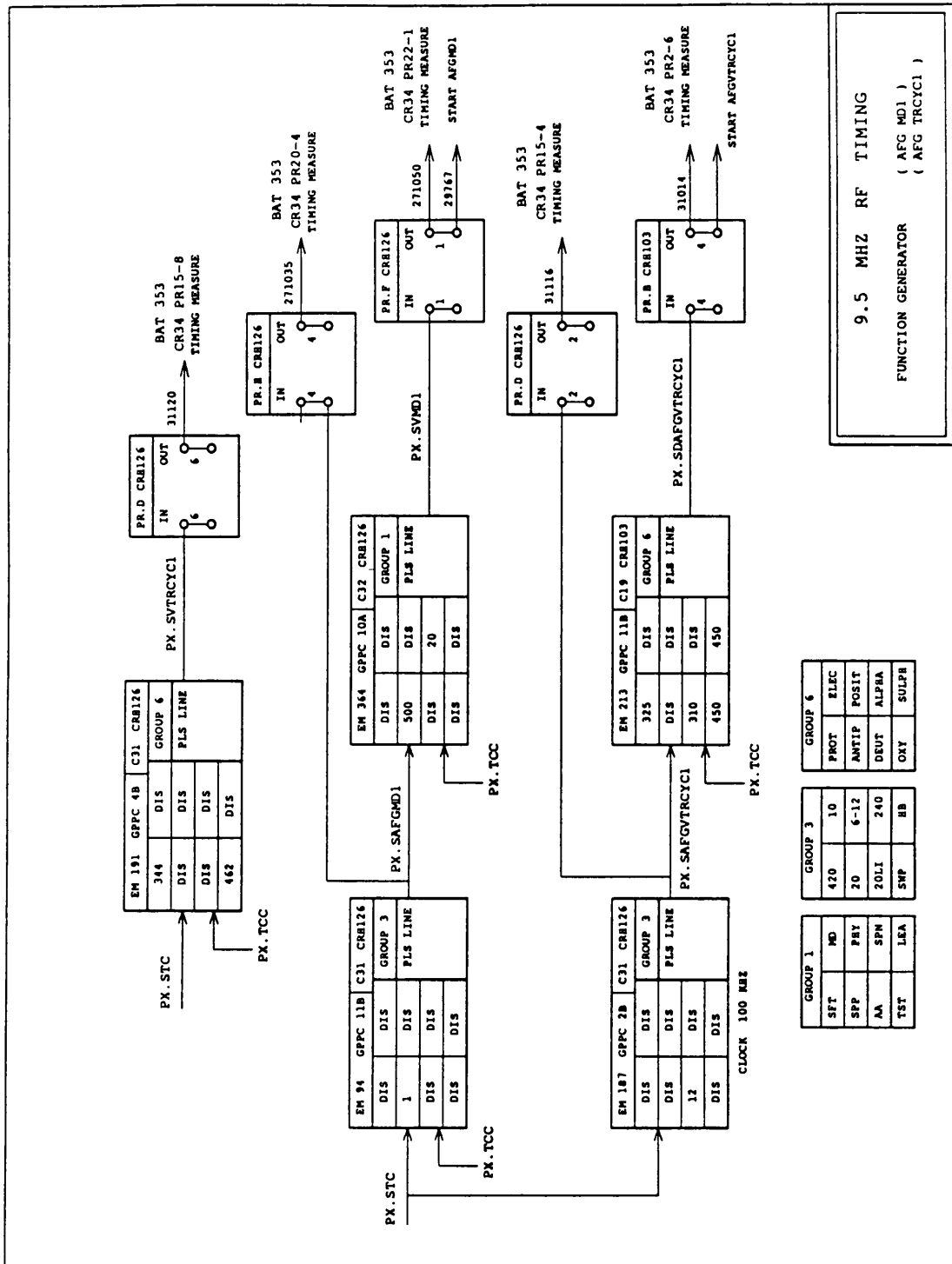


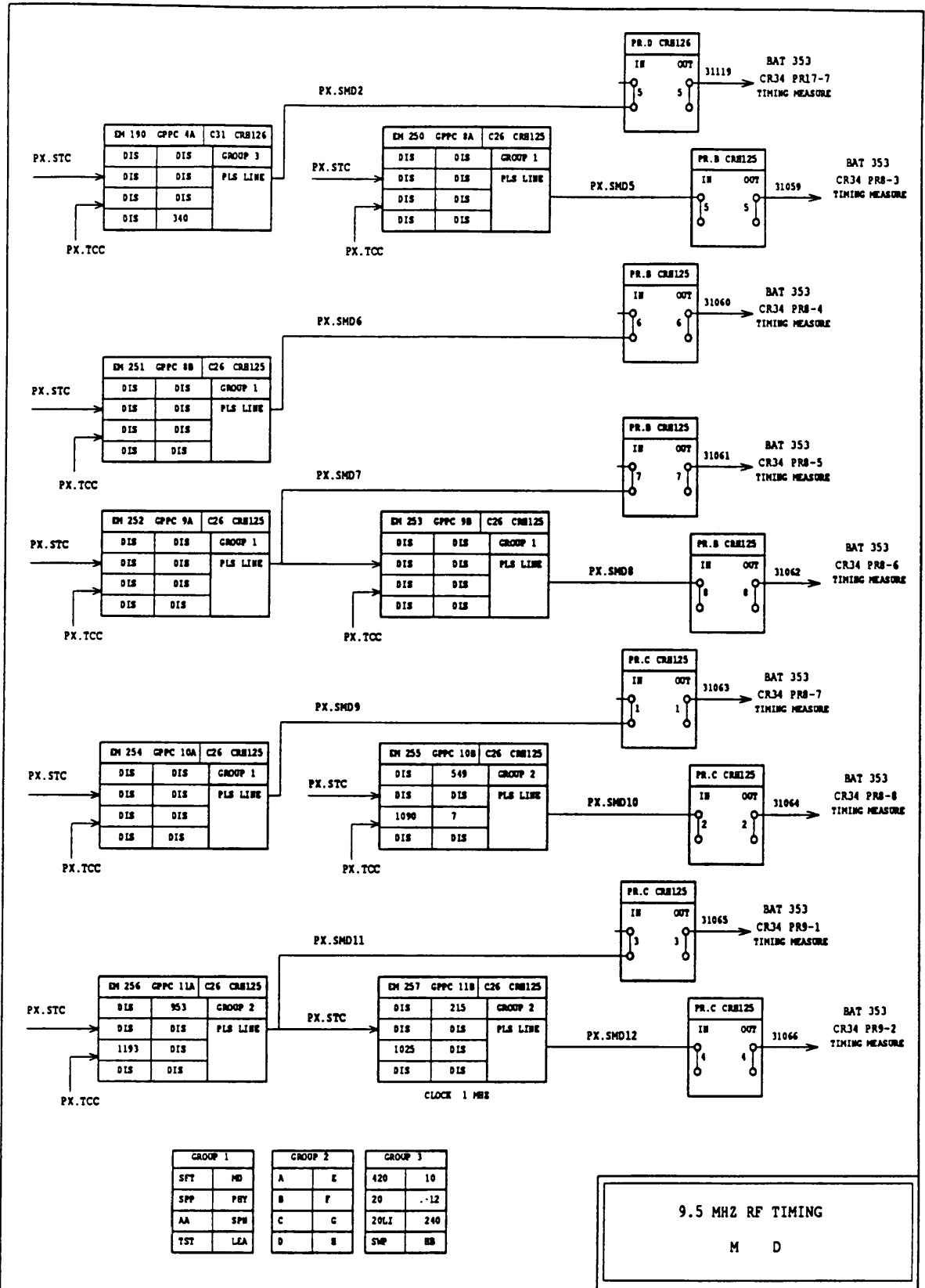


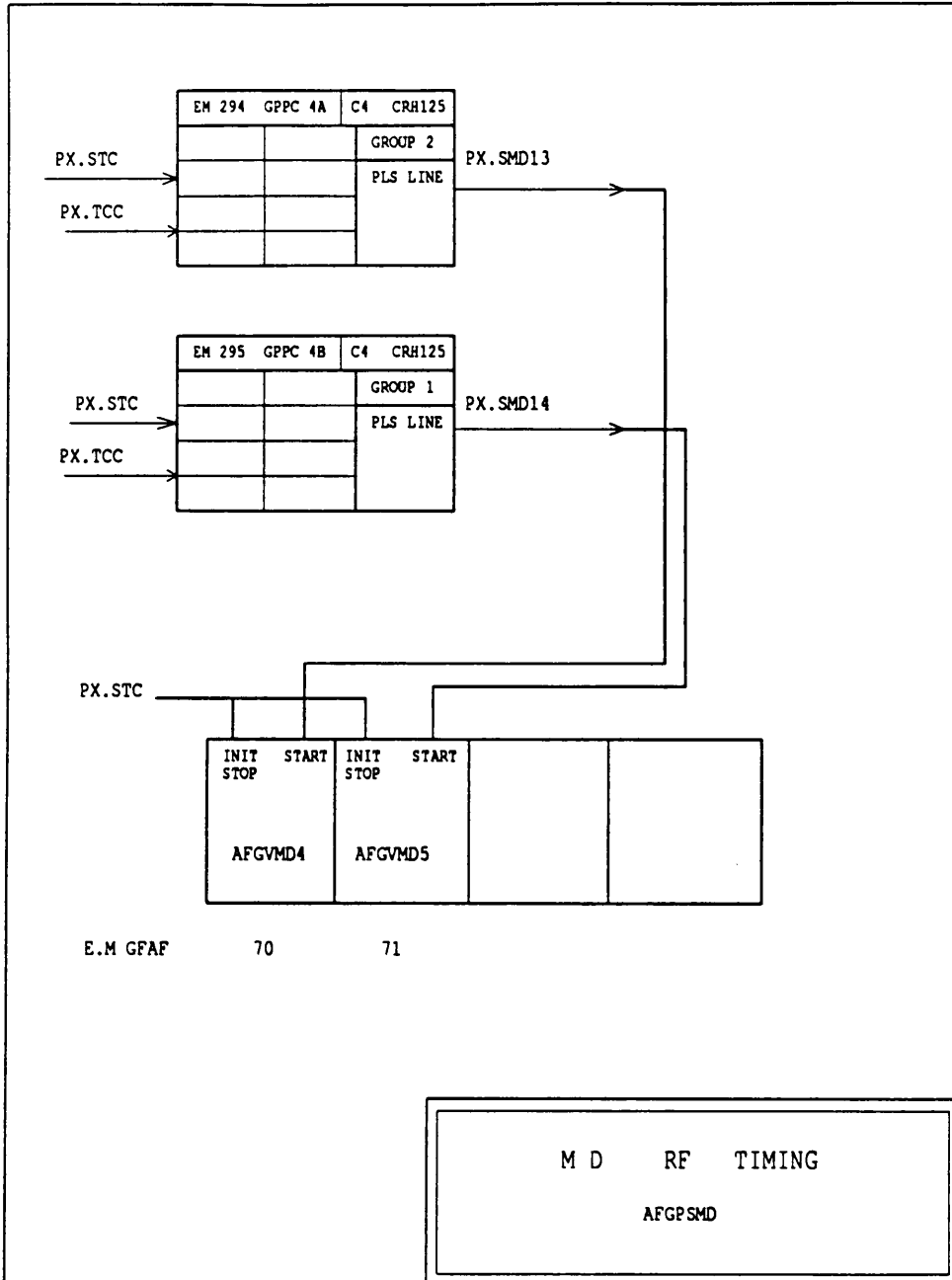


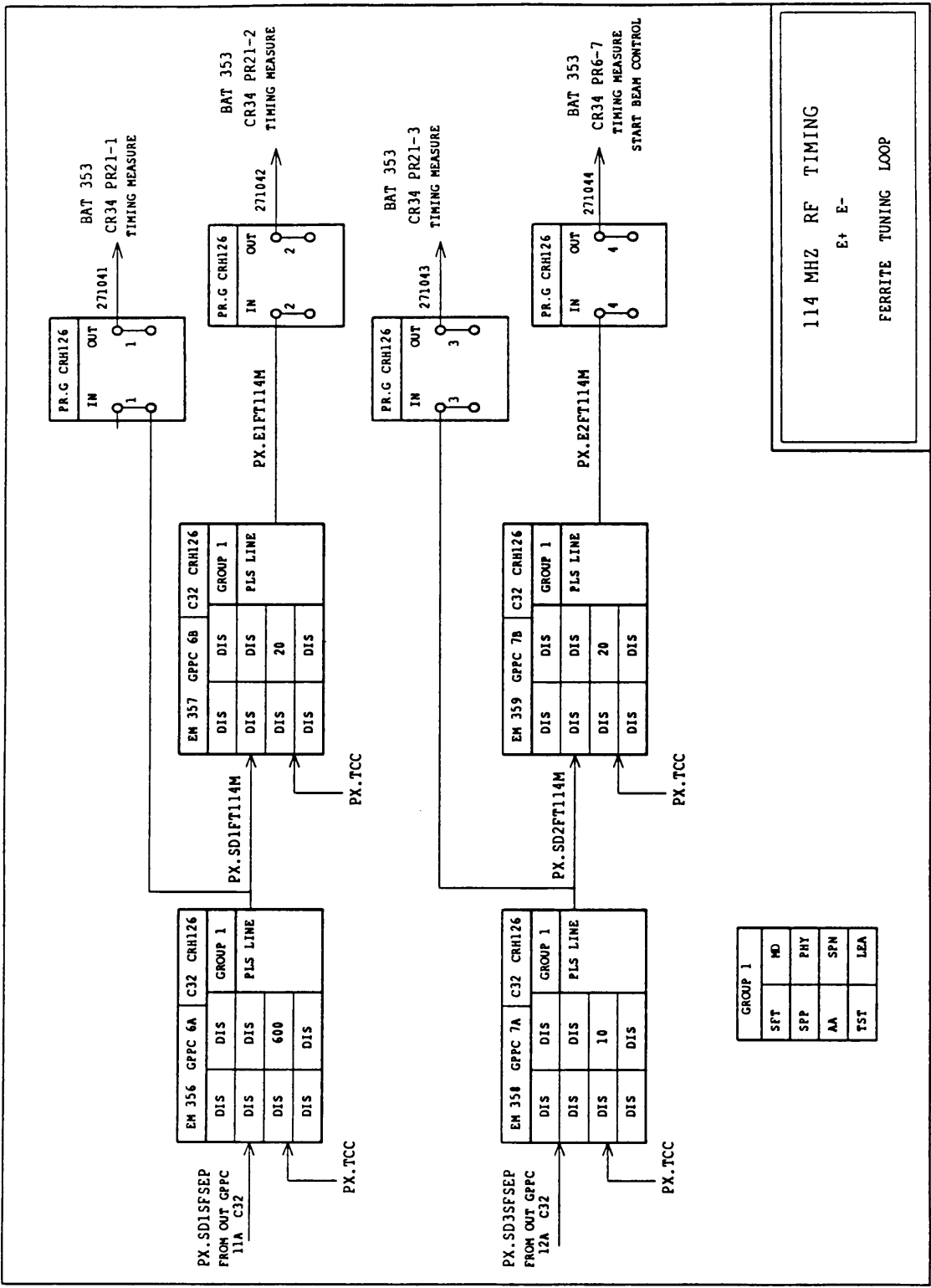
9.5 MHZ RF TIMING
FUNCTION GENERATORS (AFG)
HARMONIC JUMP (HJ)

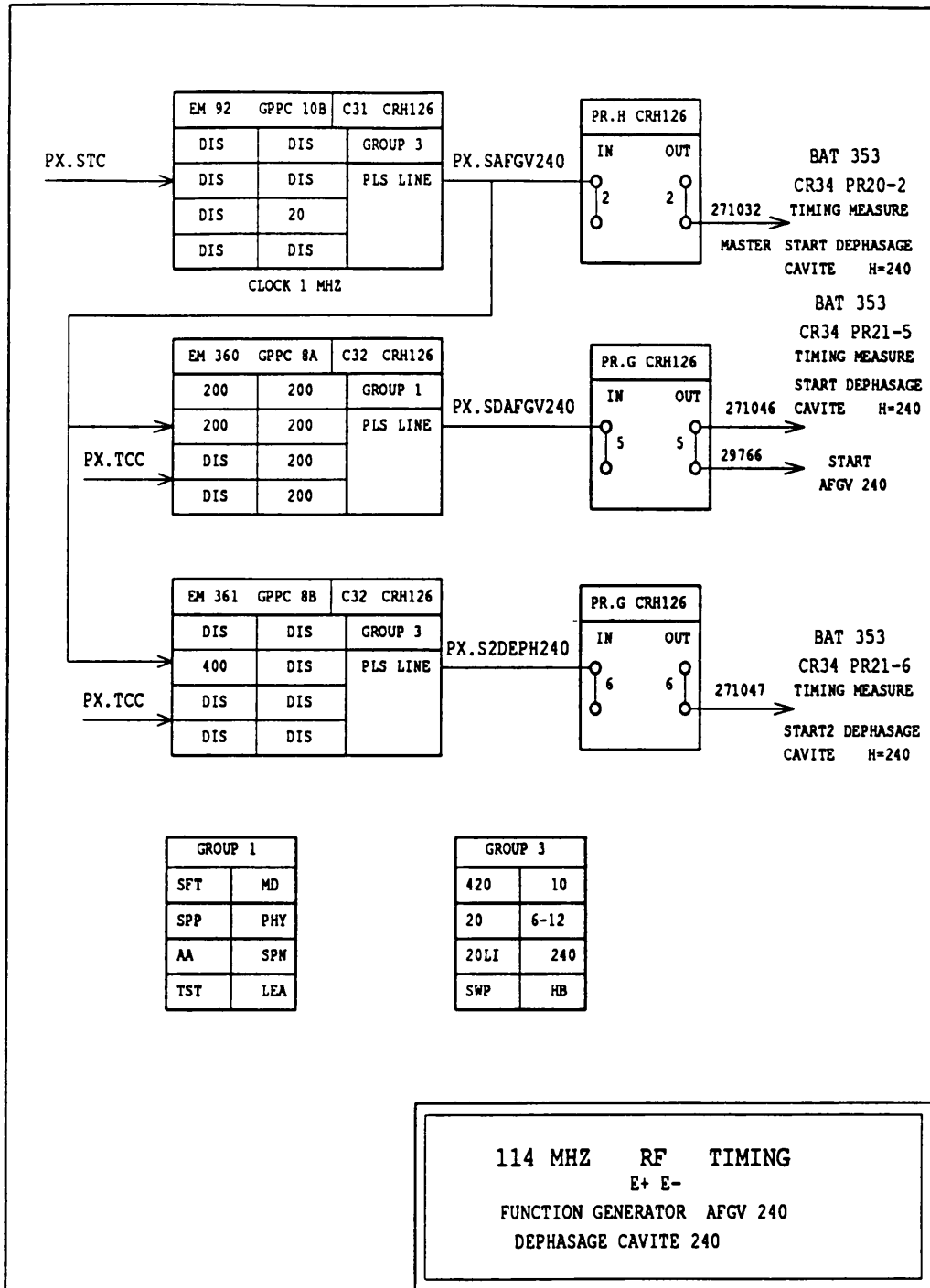


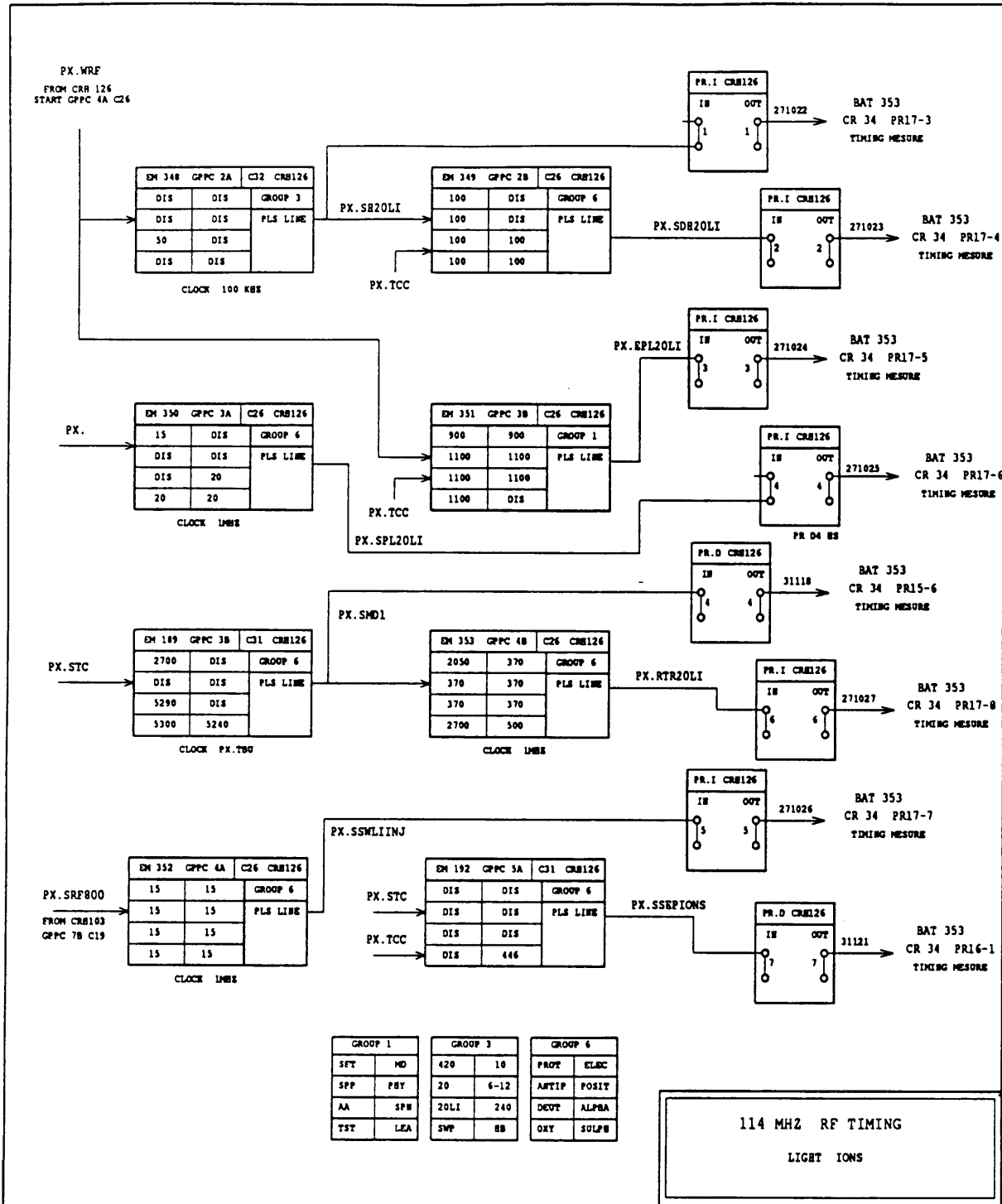


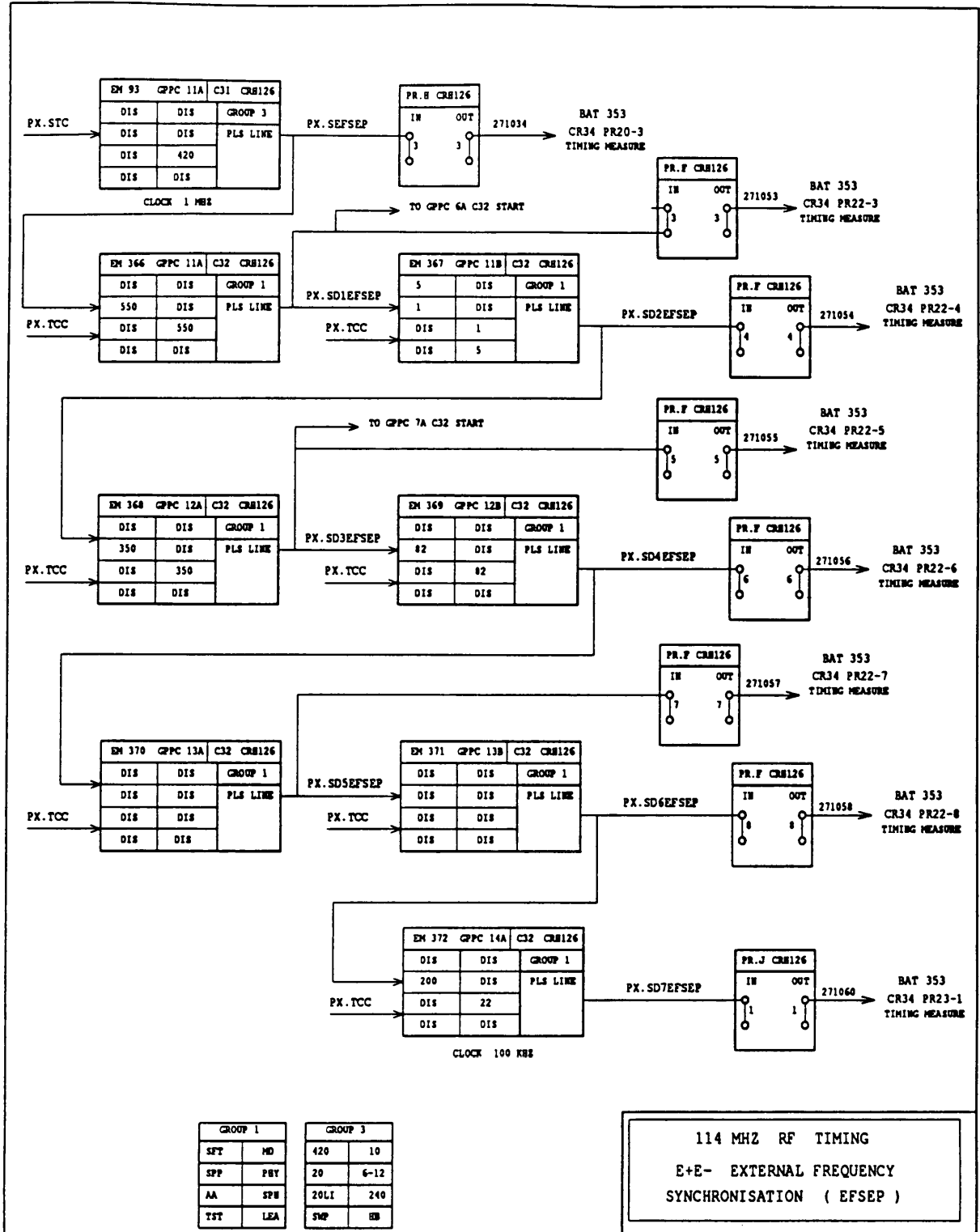


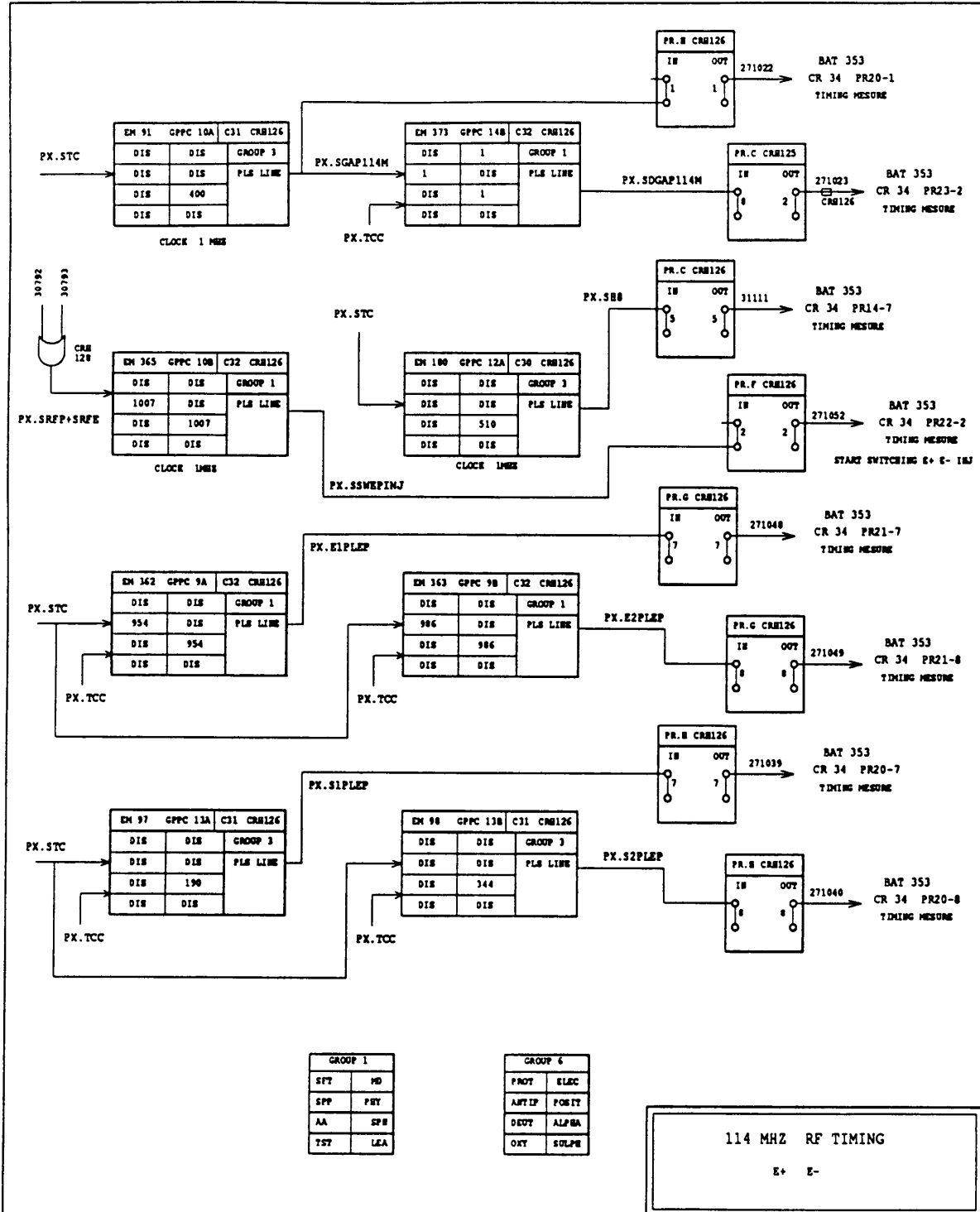


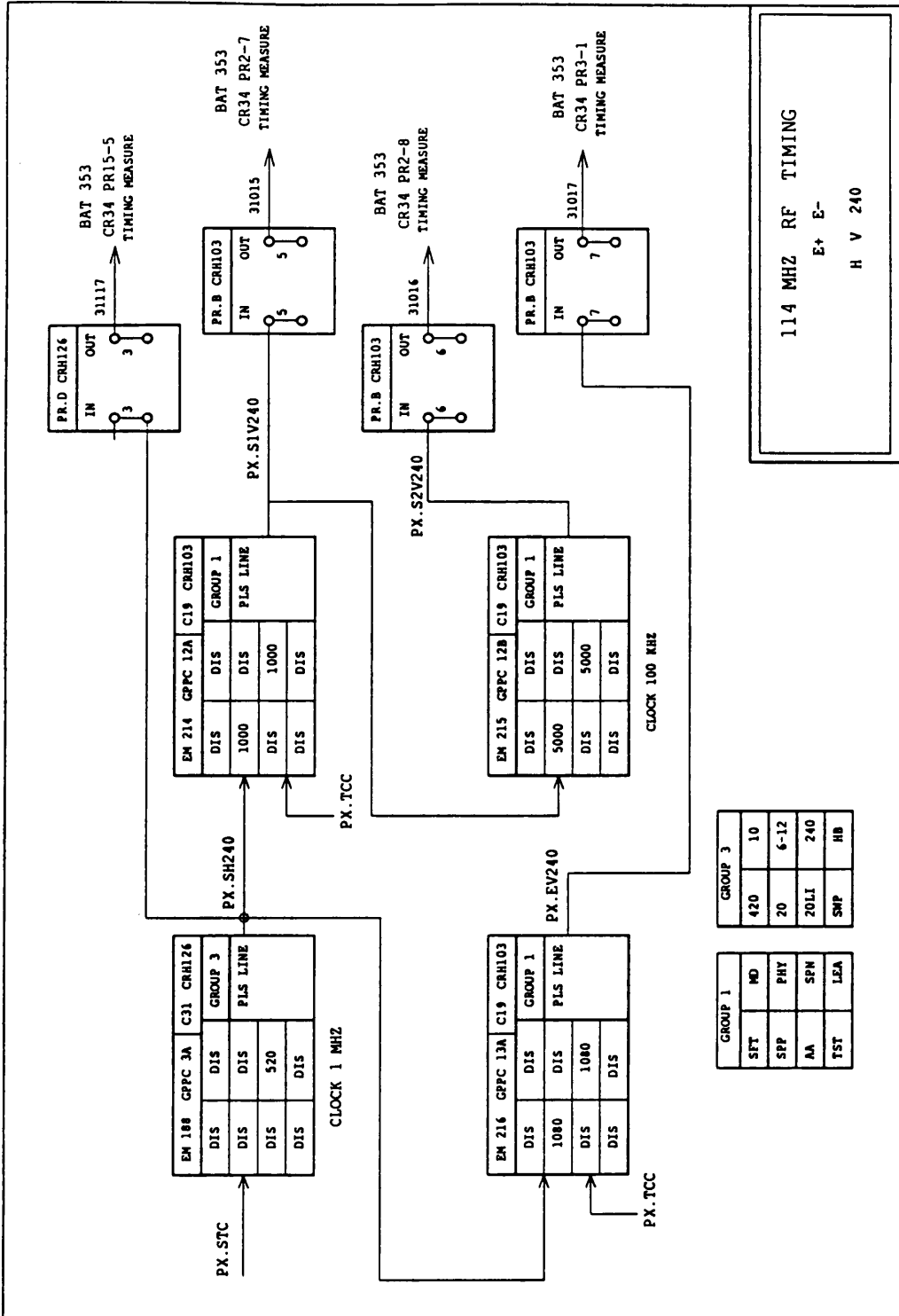




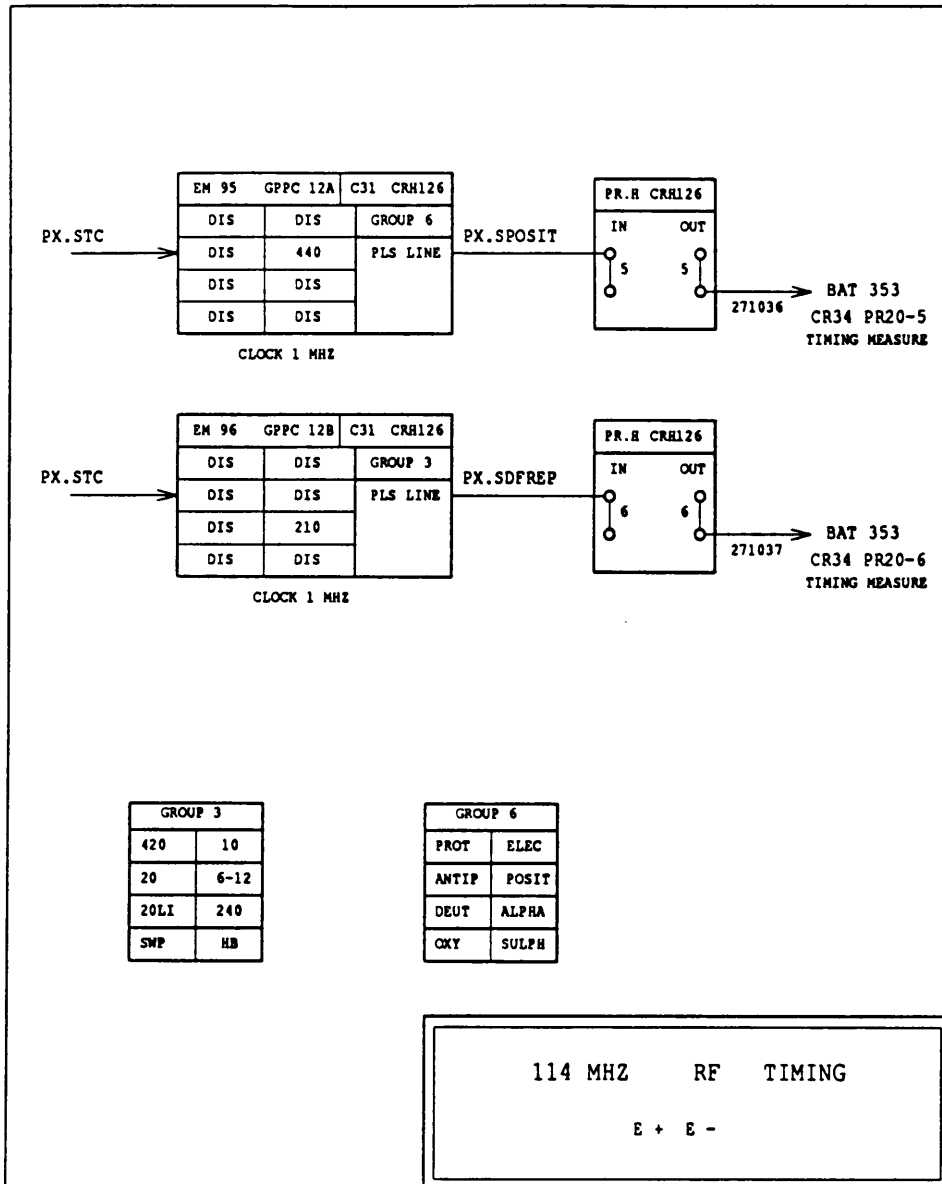


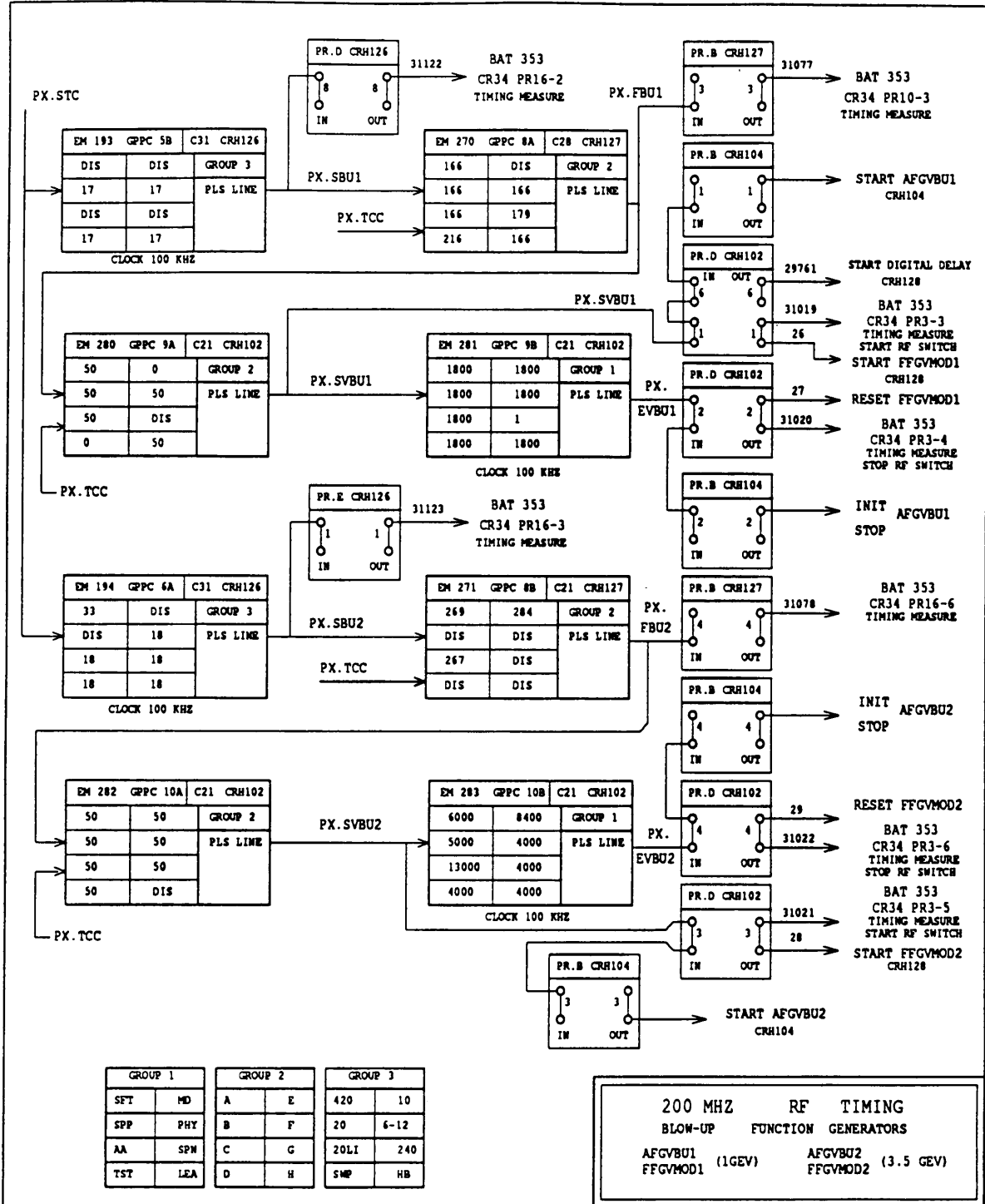


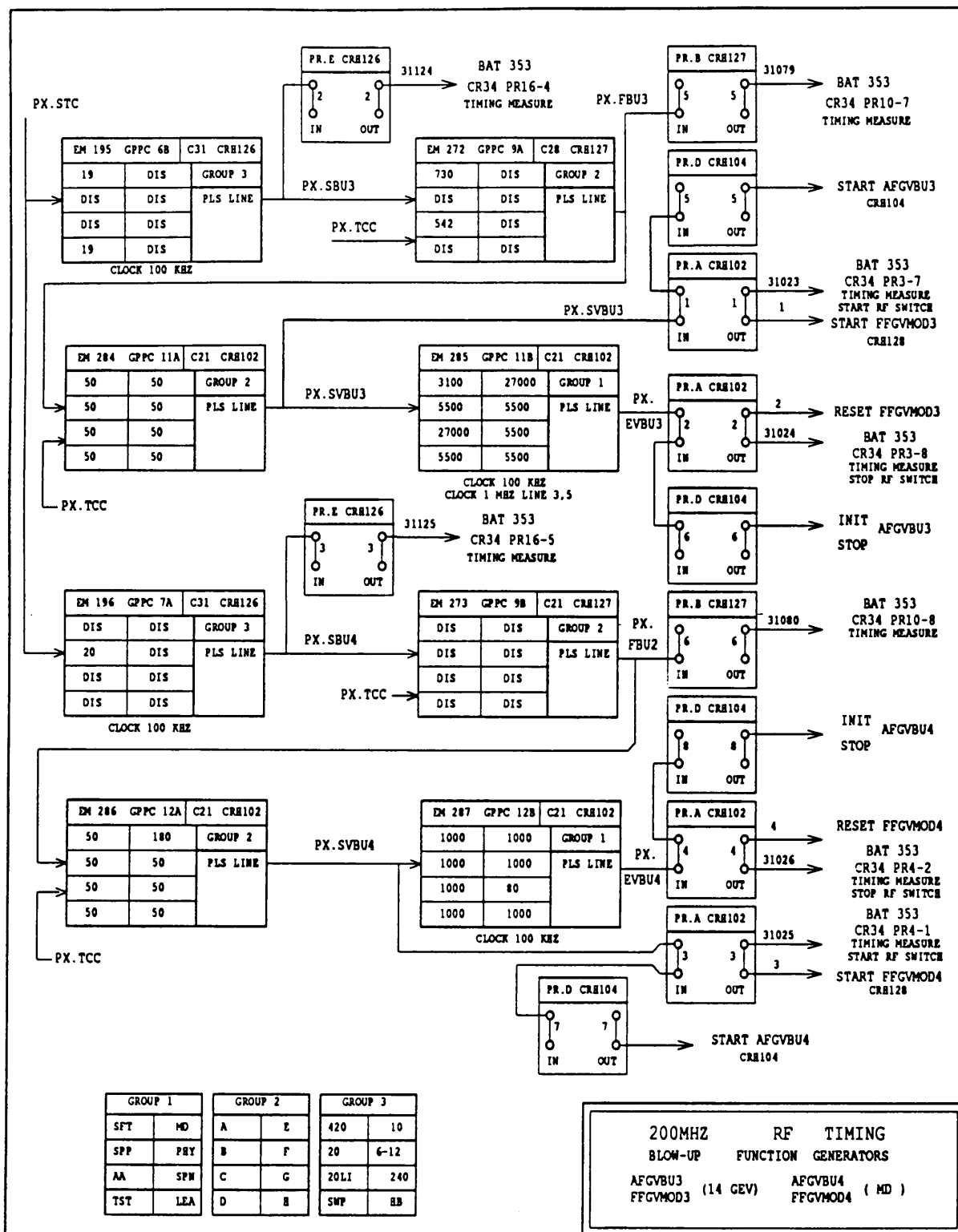


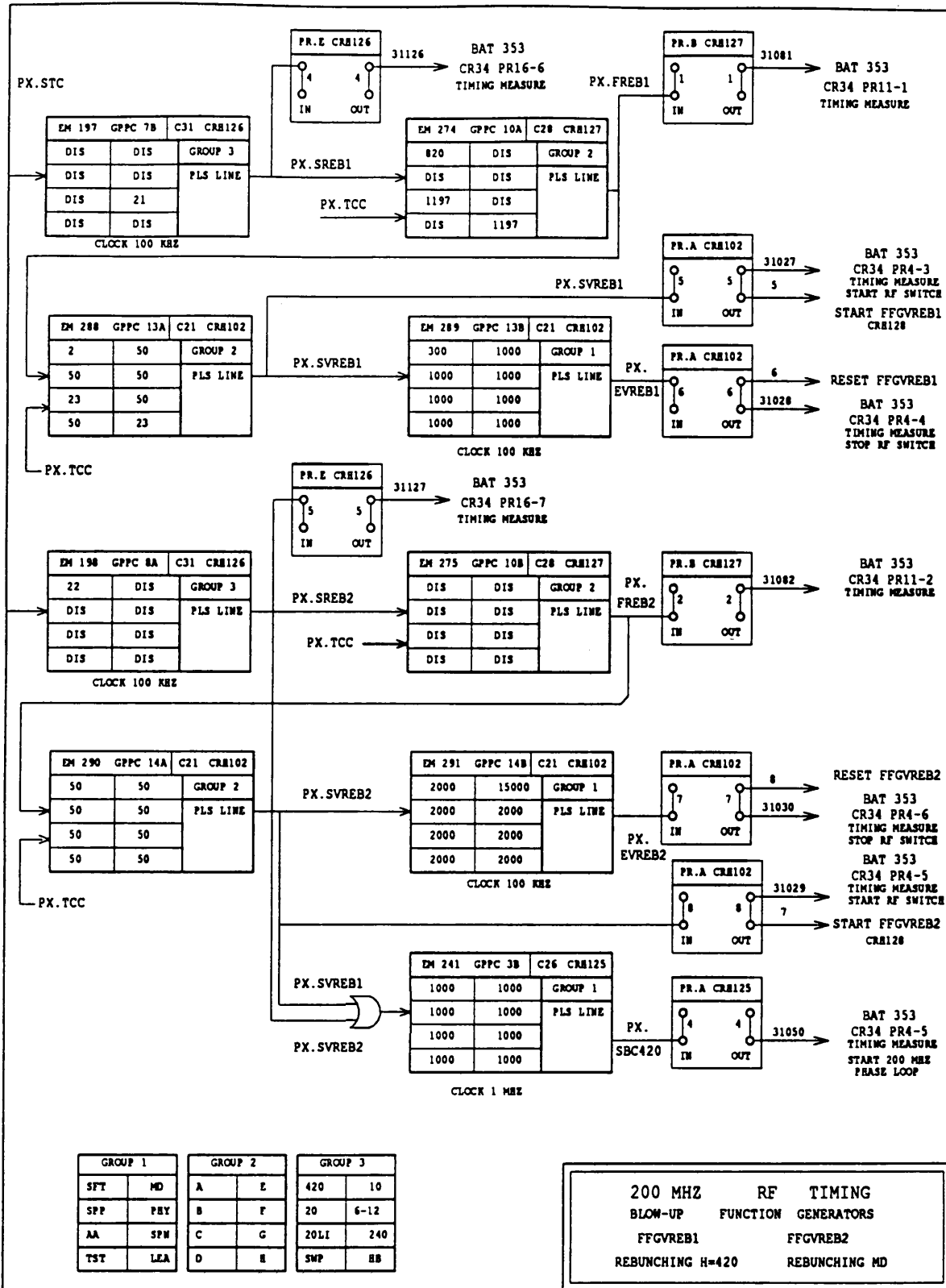


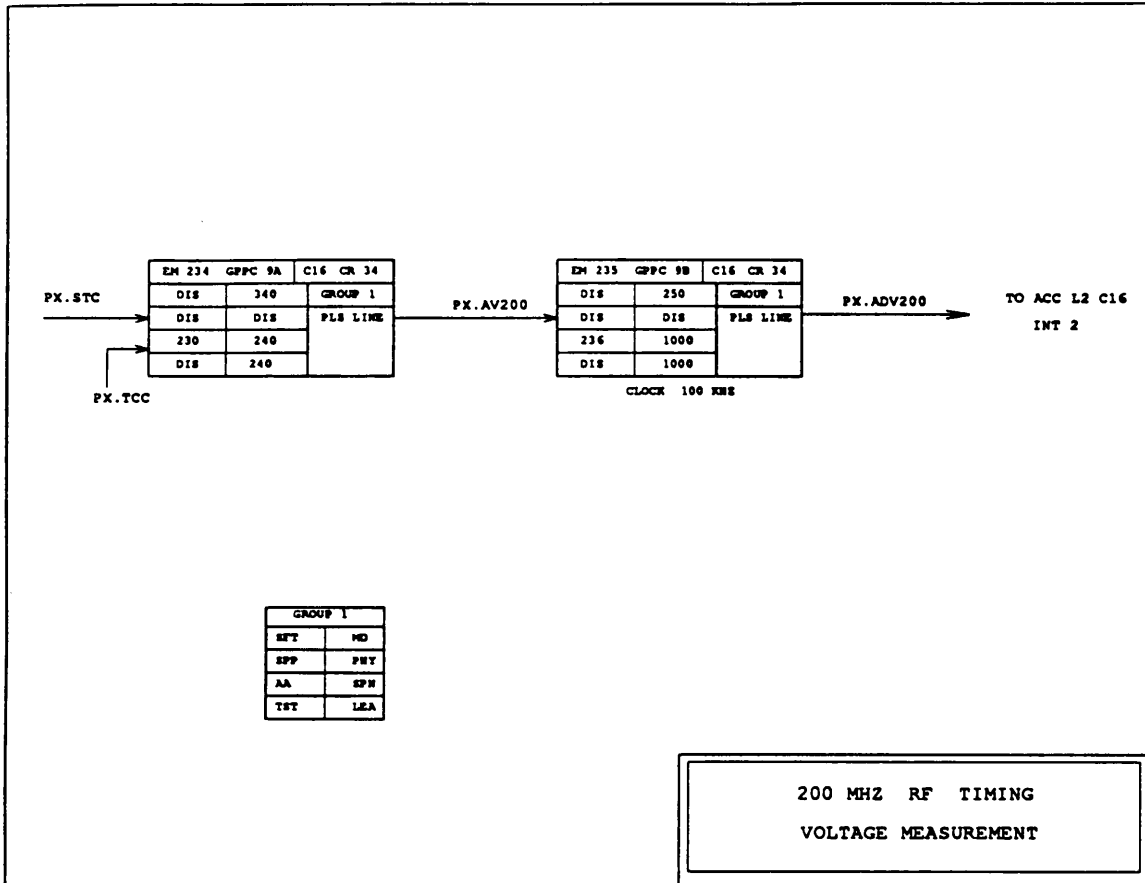
RF TIMING

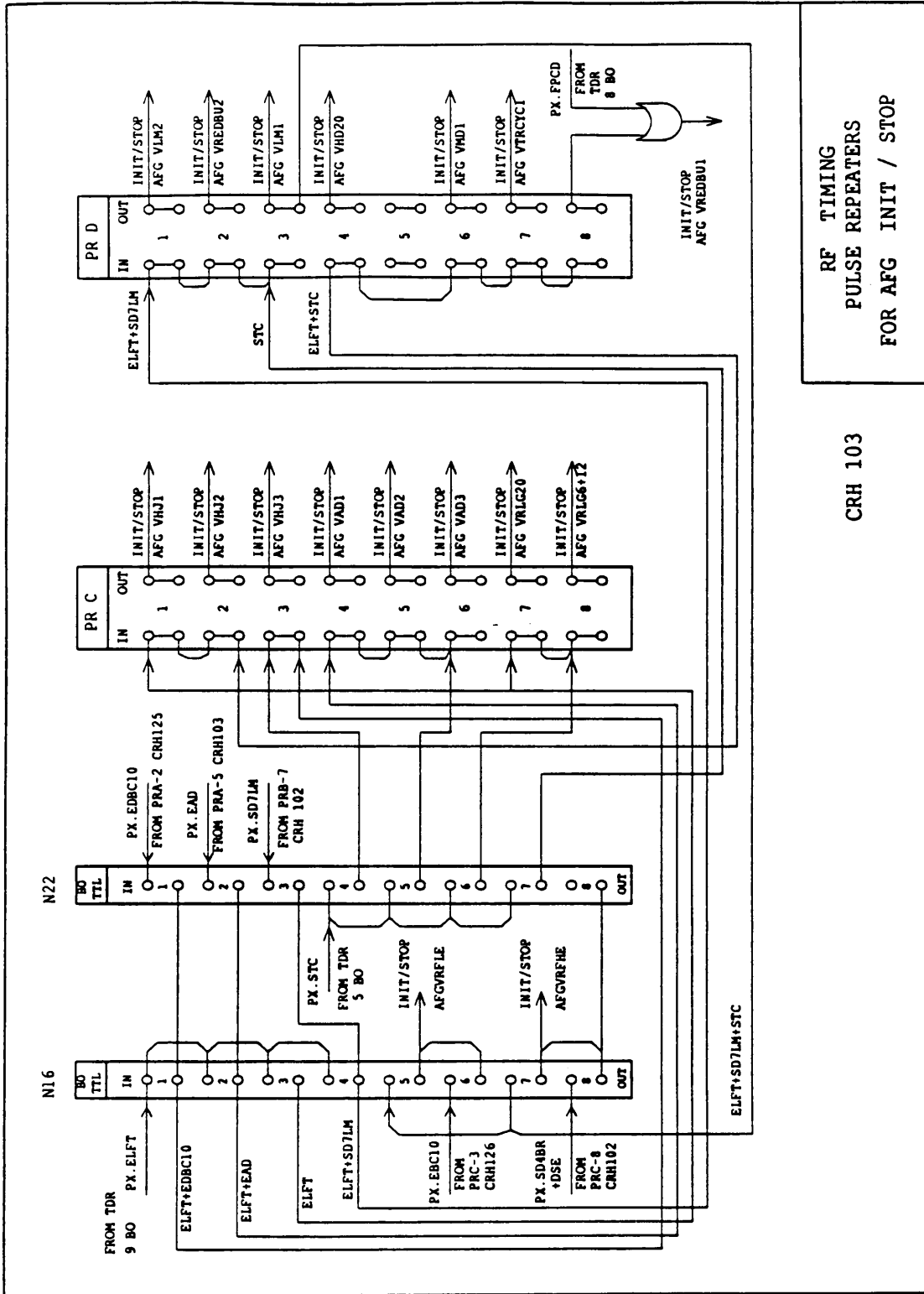








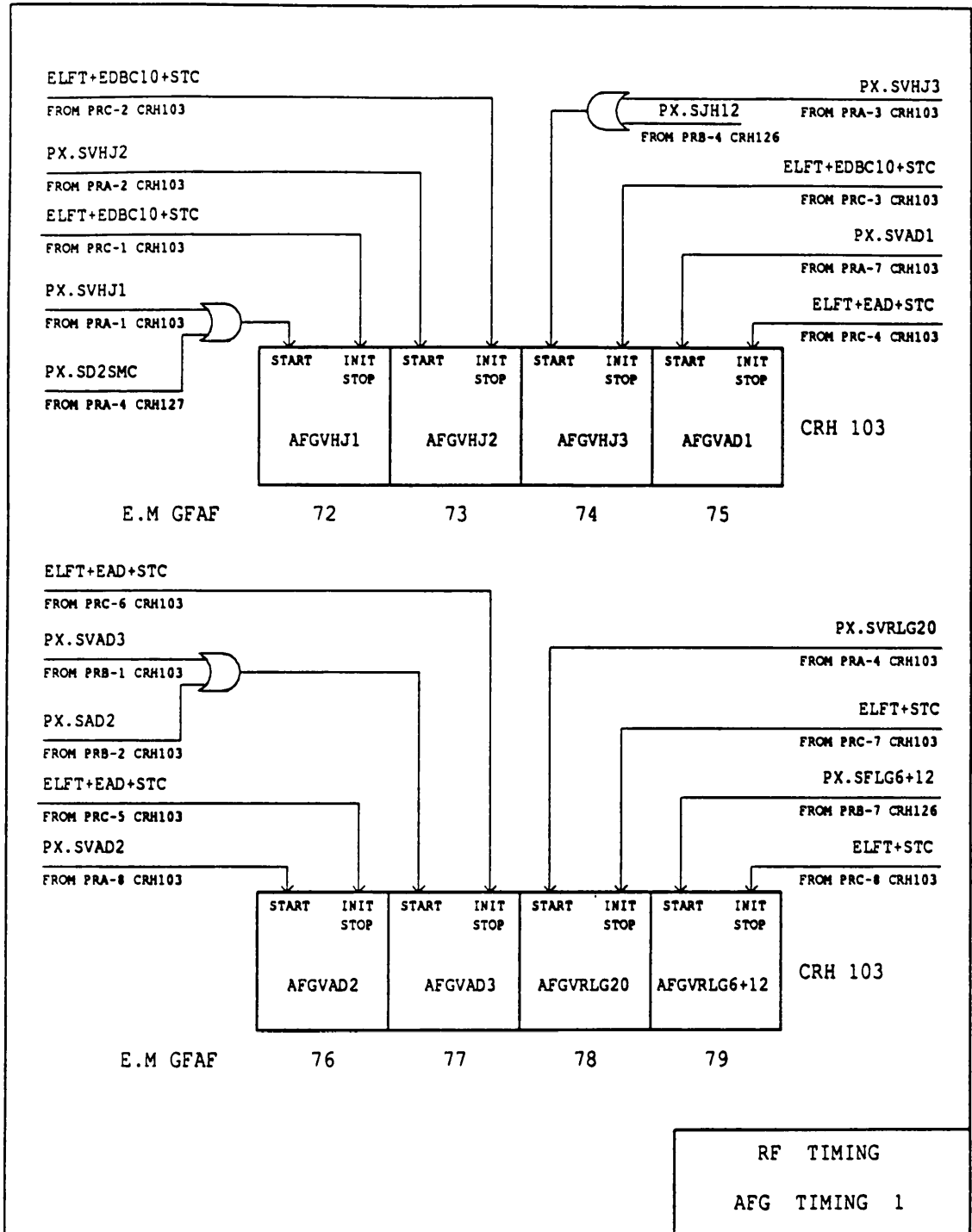


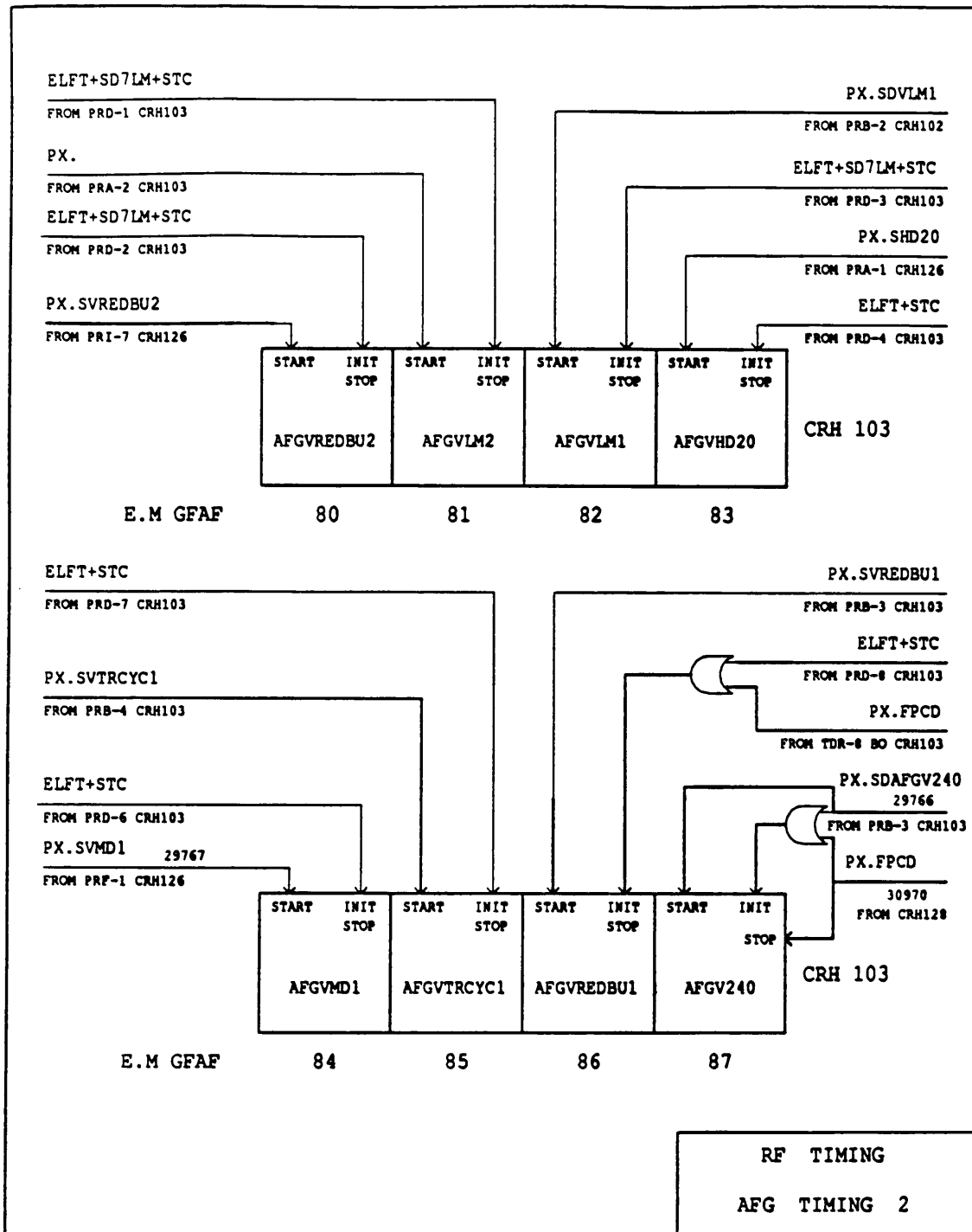


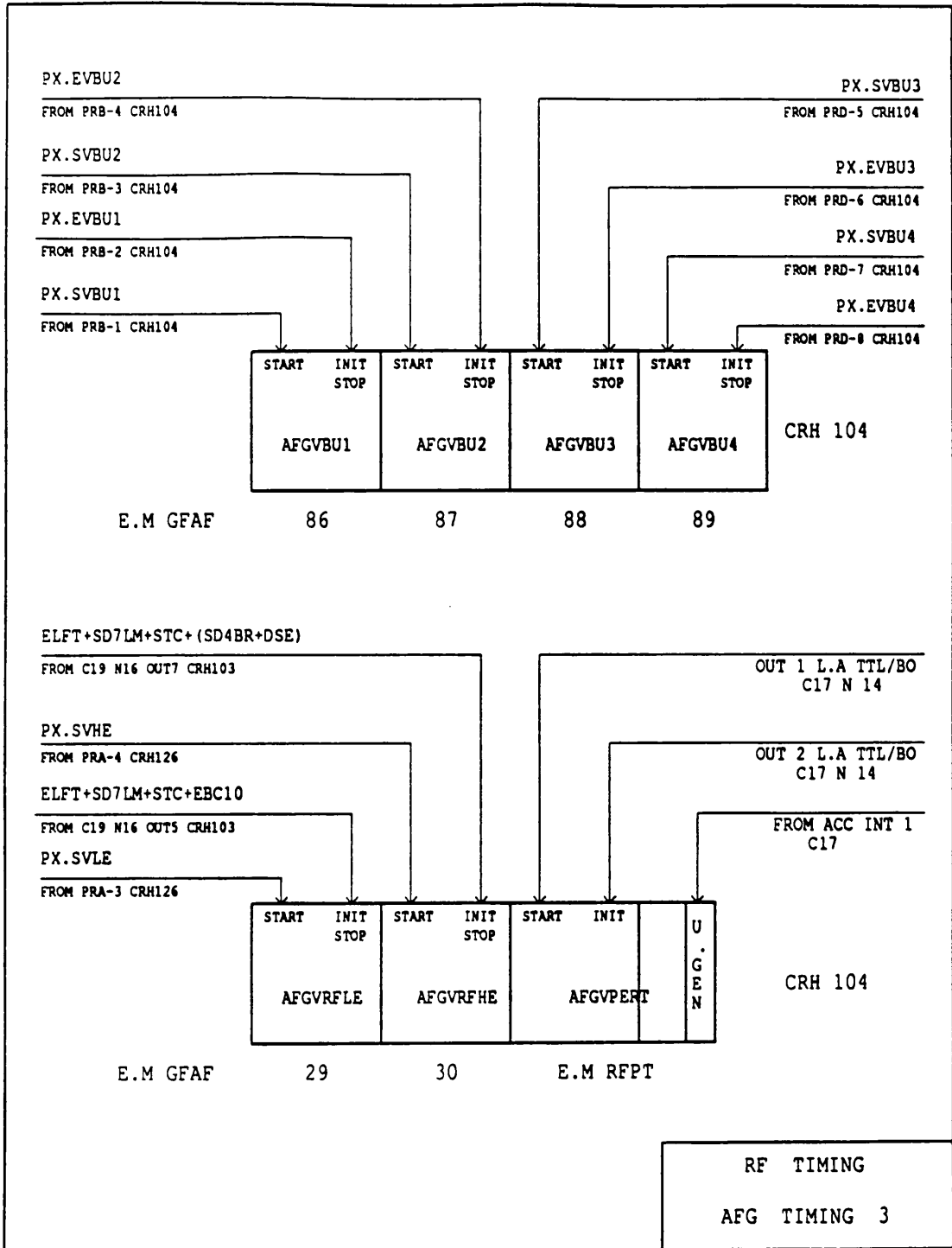
RF TIMING

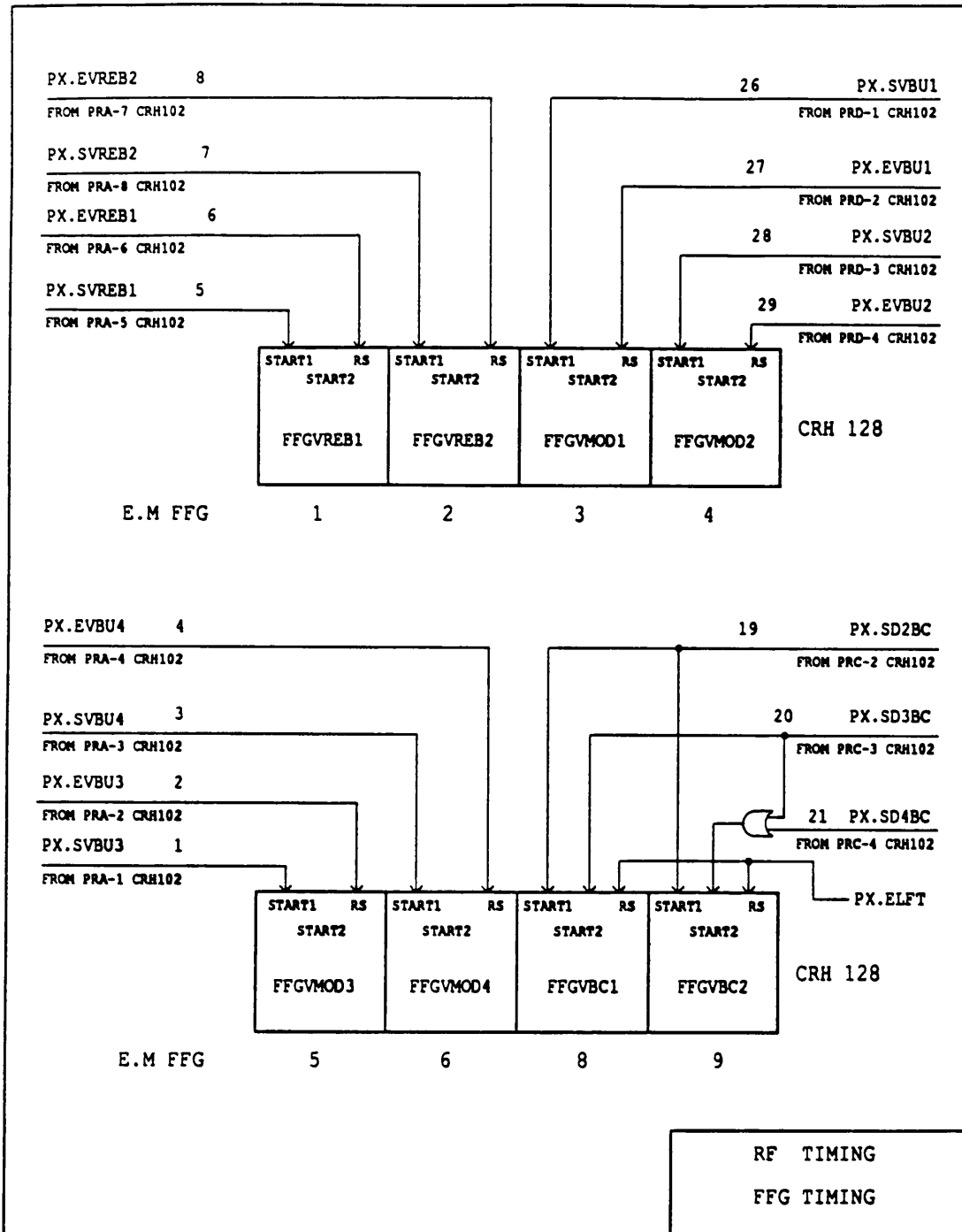
RF TIMING
PULSE REPEATERS
FOR AFG INIT / STOP

CRH 103









Distribution

Groupe PS/CO
J. Evans, PS/RF
K.H. Kissler, SL/CO
R. Rausch, SL/CO
Chefs de Groupe et Associés

Distribution List

Hübner K.
Simon D.J.

Associates

Allardyce B.
Bouthéon M.

Group Leaders

Boillot J.
Delahaye J.P.
Garoby R.
Gruber J.
Haseroth H.
Koziol H.
Maury S.
Perriollat F.
Riunaud J.P.

Liste de distribution

ADORNI Valerio
ARRUAT Michel
ASSOR Jean-Luc
BENINCASA Gianpaolo
BENETTON Maurice
BERLIN Fridtjof Bjorn
BOBBIO Piero
BOUCHE Jean-Marc
CLOYE Jean-Jacque
CROTEAU Pascal
CUISINIER Gérard
CUPERUS Jan
DAEMS Gilbert
DEHAVAY Claude
DELOOSE Yvan
DI MAIO Franck
GAGNAIRE Alain
GAYRAUD Christine
GIOVANNINI Fernando
GIUDICI François
HEINZE Wolfgang
IOURPALOV Vladimir
IZGARSHOV Serguei
KIRK Mike
KNOTT Gisèle
KUIPER Berend
LELAIZANT Monique
LEROY Christine
LEWIS Julian
LUSTIG Hans
MERARD Lucette
MICKEEV Mickhail
DE METZ-NOBLAT Nicolas
MUNKOE Leif
PACE Alberto
PERRIOLLAT Fabien
PETTERSSON Thomas
PHILIPPE Jean
POTDEVIN Philippe
RAICH Ulrich
REDARD Jacques
ROSENSTEDT Anker
SERRE Christian
SHEPHERD Anthony P.
SHERBAKOV Eugenei
SICARD Claude-Henri
SKAREK Paul
SOLOVIEV Victor
TROFIMOV Nikol
ZELEPOUKINE Serguei