

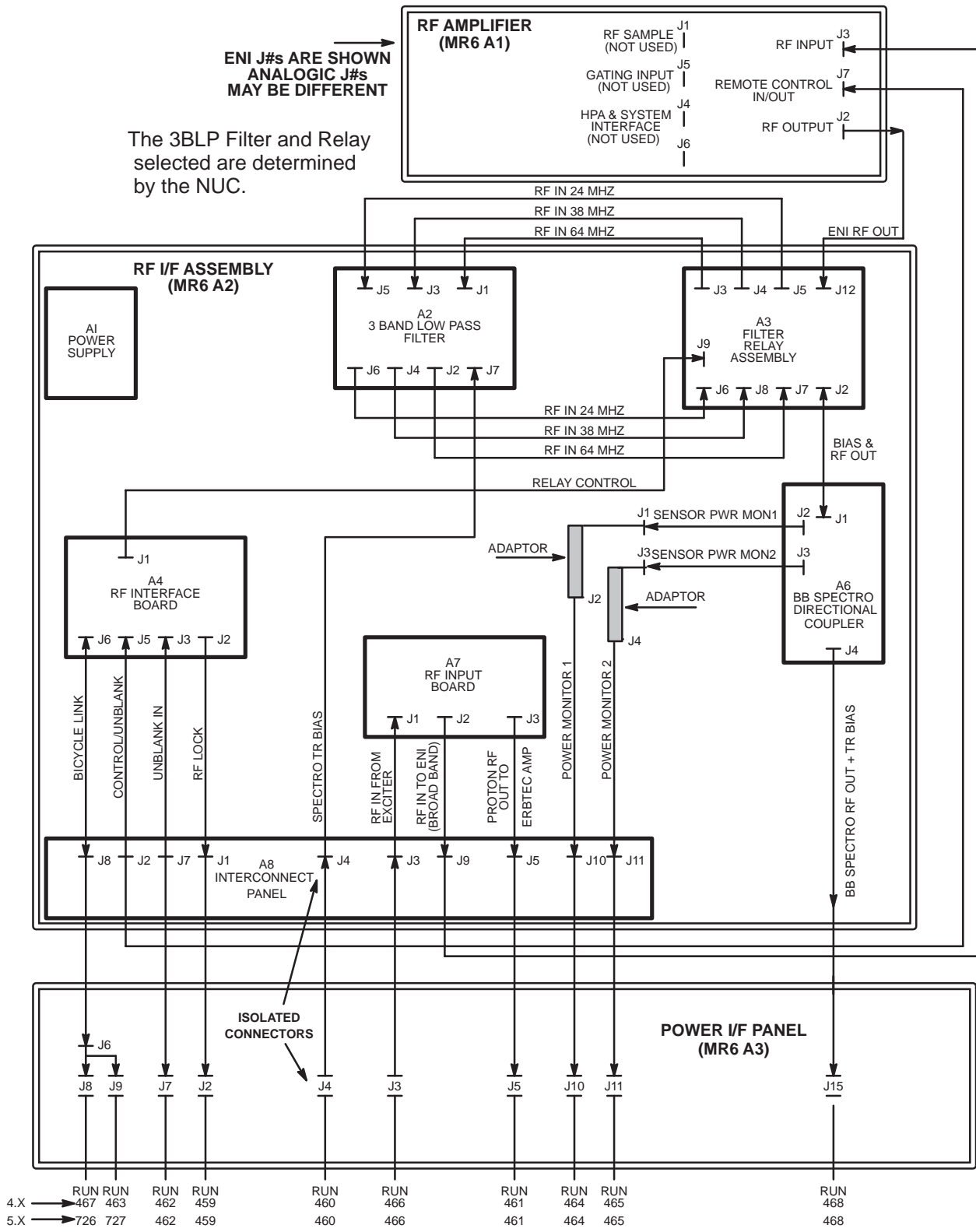
SECTION 1 – INTERCONNECTS

Interconnect diagrams show cable connections within the BroadBand Cabinet (MR6) and modified RF Cabinet (MR1). Interconnection diagrams of the equipment room and magnet room is also provided for the Spectroscopy Subsystem.

Total cable interconnections for a forward production Signa Advantage system with Spectroscopy Option are located in the Installation tab. Interconnect cables that are specific to the Spectroscopy Option are listed in Table 1–1.

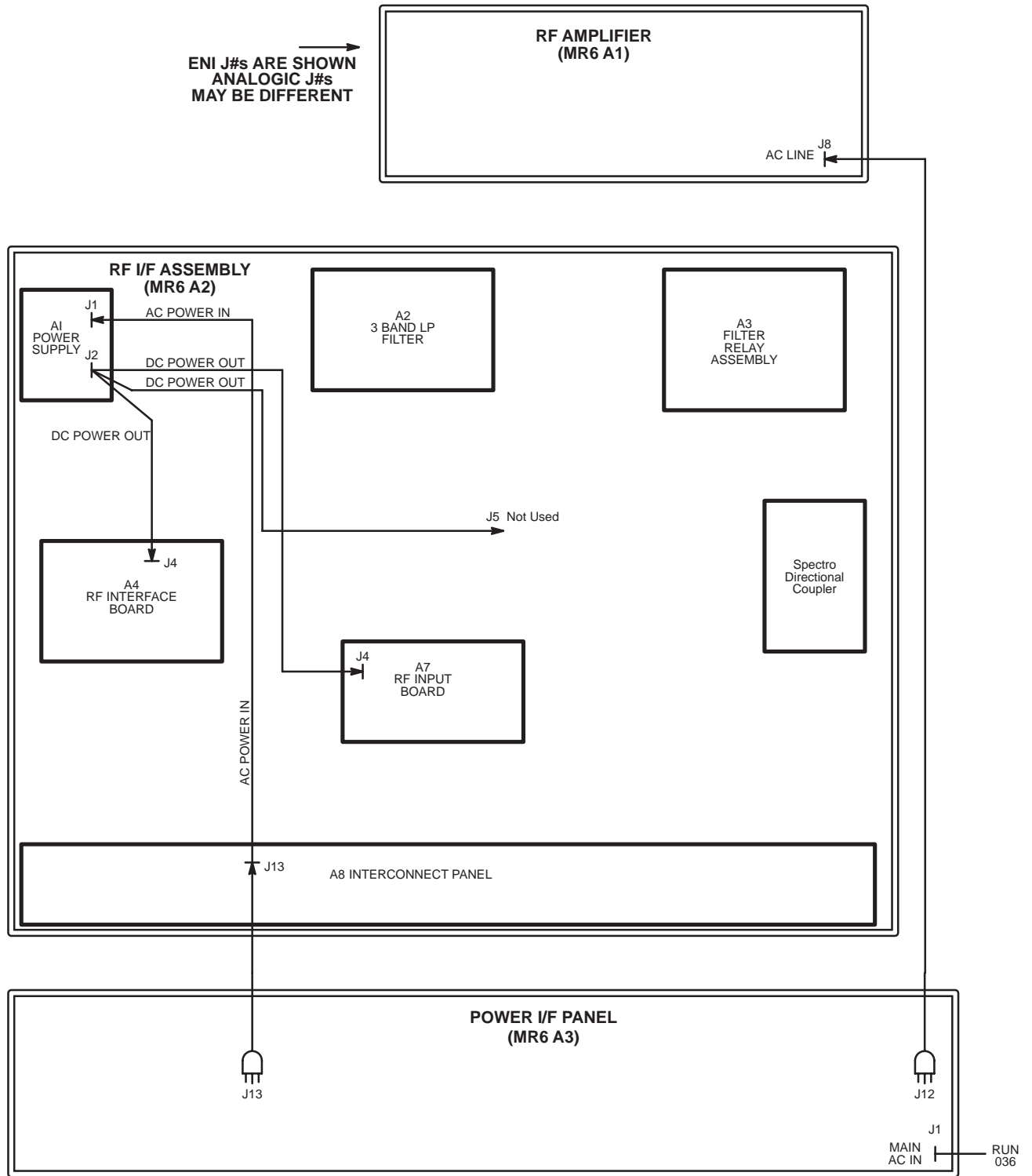
TABLE 1–1
SIGNA ADVANTAGE SPECTROSCOPY OPTION CABLES

RUN	“FROM”	“TO”	DESCRIPTION	DELIVERED WITH CAT#	REMARKS
036	PD1	MR6 A3 J1	45 ft Power (5–#8)	M1040FF OR FK	BroadBand RF Cabinet Power
459	MR1 A7 J6	MR6 A3 J2	30 ft 9 pin Sub–D	M1040FF OR FK	RF Lock
460	MR1 A7 J14	MR6 A3 J4	30 ft RG223/U Coax (BNC)	M1040FF OR FK	Spectro TR Bias
461	MR1 A7 J3	MR6 A3 J5	30 ft RG223/U Coax (BNC)	M1040FF OR FK	Exciter RF OUT (proton)
462	MR1 A7 J6	MR6 A3 J7	30 ft 9 pin Sub–D	M1040FF OR FK	Spectro Unblank
463 or 738	MR1 A7 J9 or MR1 A7 J24	MR6 A3 J9	30 ft 37 pin Sub–D	M1040FF OR FK	Bicycle link
464	MR1 A7 J16	MR6 A3 J10	30 ft RG223/U Coax (BNC)	M1040FF OR FK	Power Monitor Spectro Sense #1
465	MR1 A7 J15	MR6 A3 J11	30 ft RG223/U Coax (BNC)	M1040FF OR FK	Power Monitor Spectro Sense #2
466	MR2 A11 J1	MR6 A3 J3	50 ft RG223/U Coax (BNC)	M1040FF OR FK	Exciter RF output (Proton & BroadBand)
467 or 737	MR3 A9 J5 or MR1 A7 J23	MR6 A3 J8	65 ft 37 pin Sub–D	M1040FF OR FK	Bicycle link
468	MR6 A3 J8	PP1 J83	50 ft Heliac Coax (SC & N)	M1040FF OR FK	BroadBand RF Amp output
469	PP1 A13 OUT	MR2 A11 J3	50 ft RG223/U Coax (BNC)	M1040FF OR FK	Spectro Receive
472	MG3 A11 J3	PP1 A17 J4	80 ft RG223/U Coax (BNC)	M1040FF OR FK	Spectro Receive
473	PP1 J83	MG3 A11 J3	80 ft Heliac Coax (SC)	M1040FF OR FK	BroadBand RF Amp output



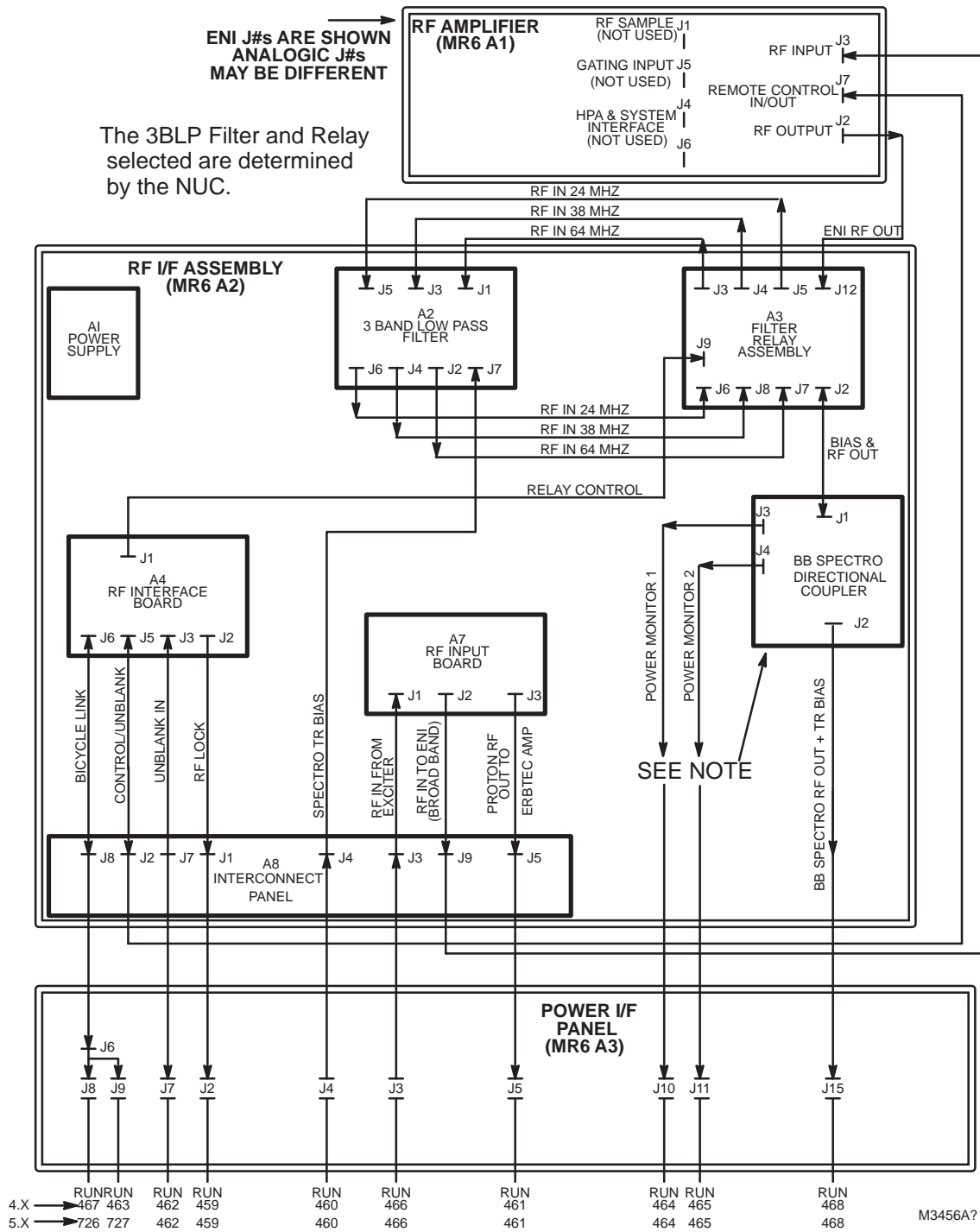
M3456A?

BROADBAND RF CABINET FUNCTIONAL INTERCONNECTIONS (M1040FF WITH FMI 60420)



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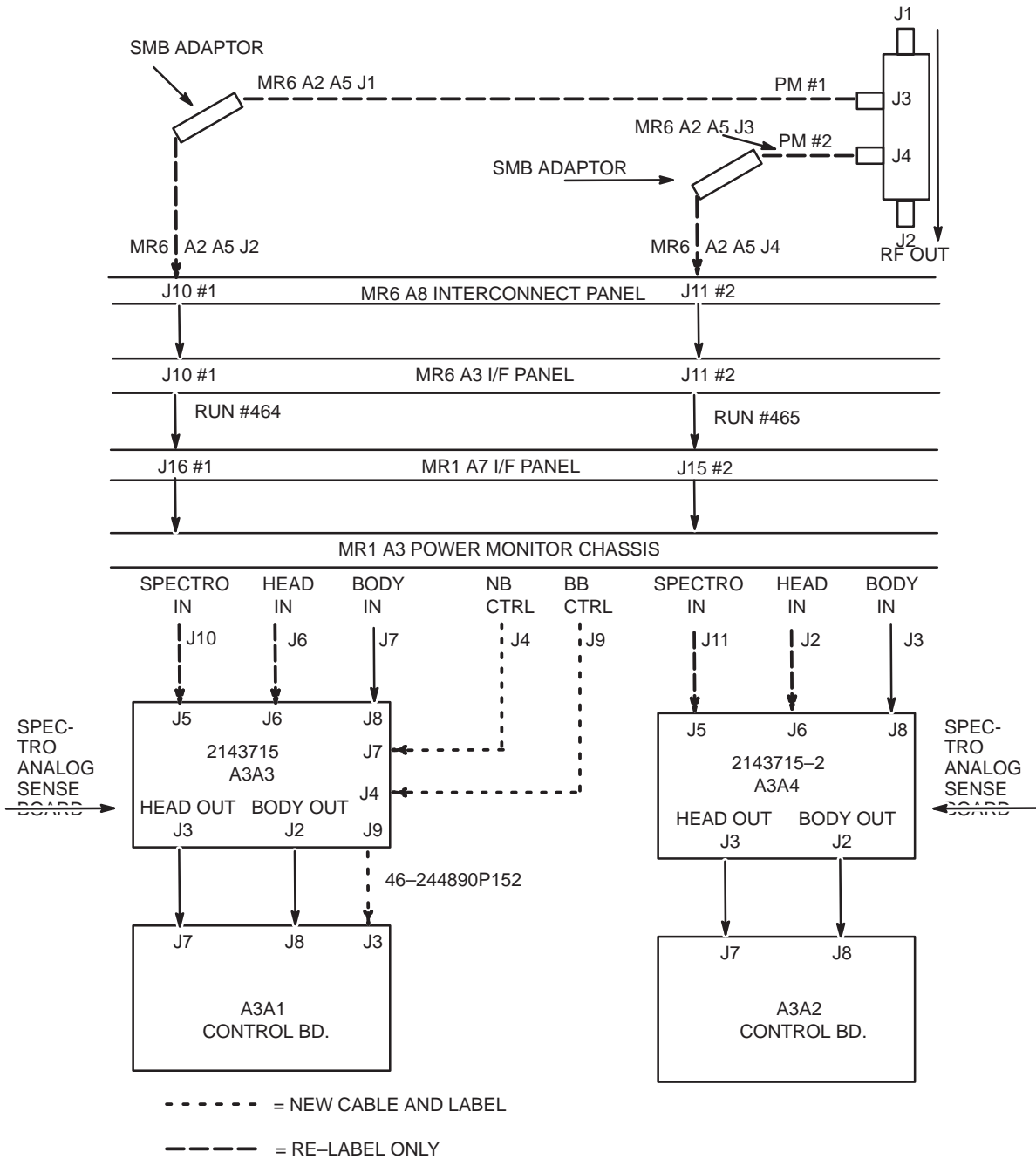
BROADBAND RF CABINET POWER INTERCONNECTIONS (M1040FF and FK)



Note

The BB Spectroscopy Directional Coupler may be mounted below the A8 Interconnect Panel.

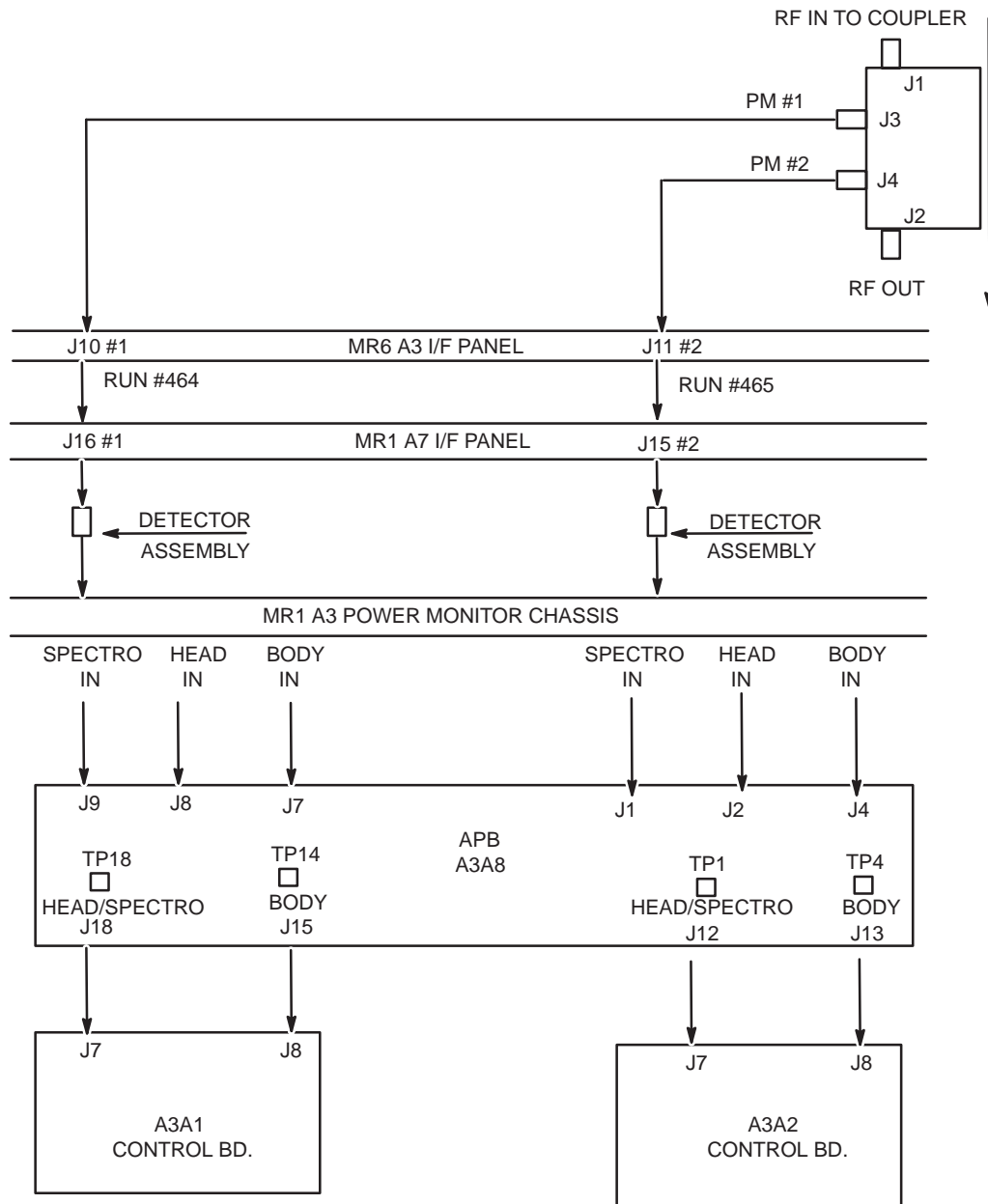
BROADBAND RF CABINET FUNCTIONAL INTERCONNECTIONS (M1040FK)



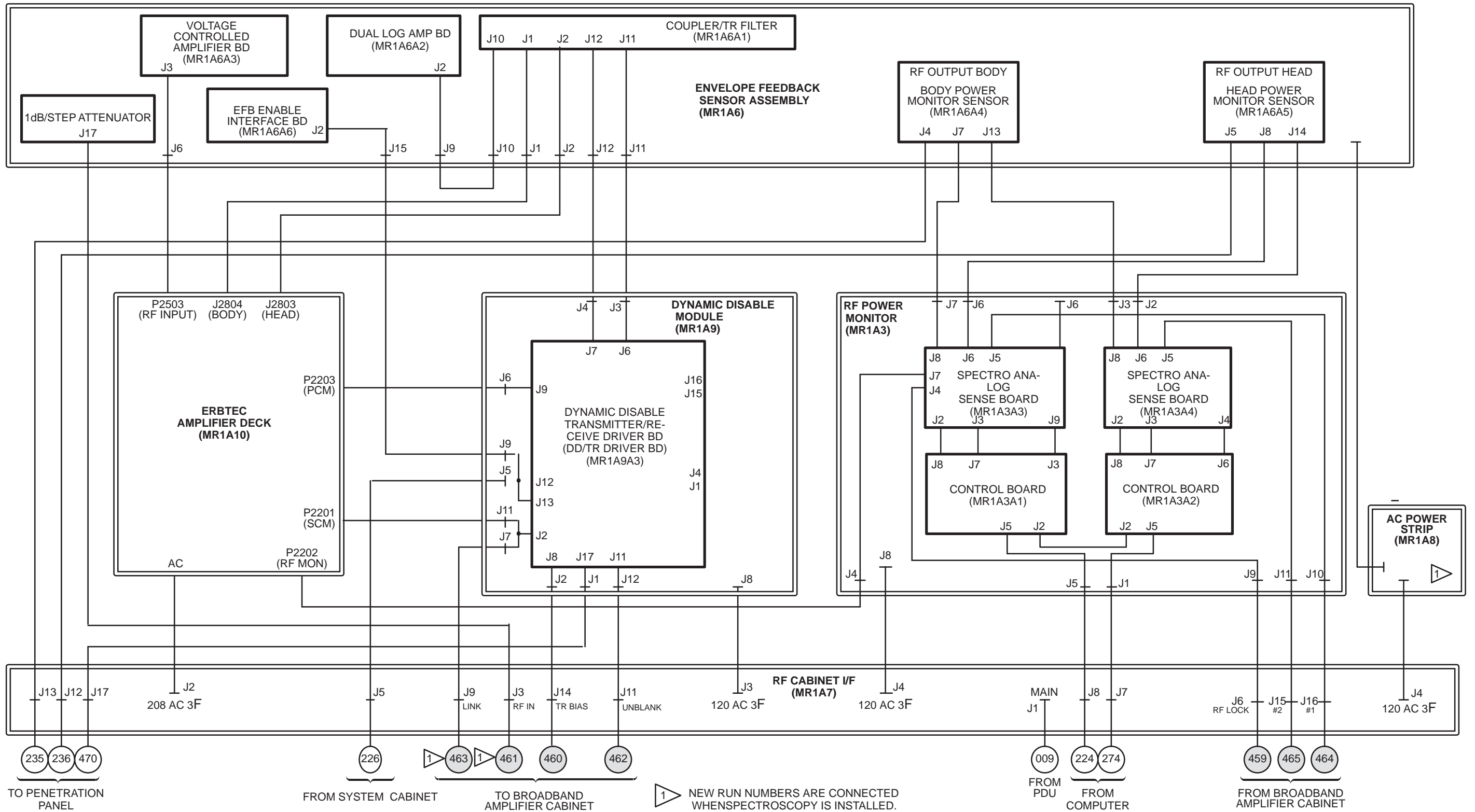
Note

The BB Spectroscopy FMI 60420 is shown in the above illustration.

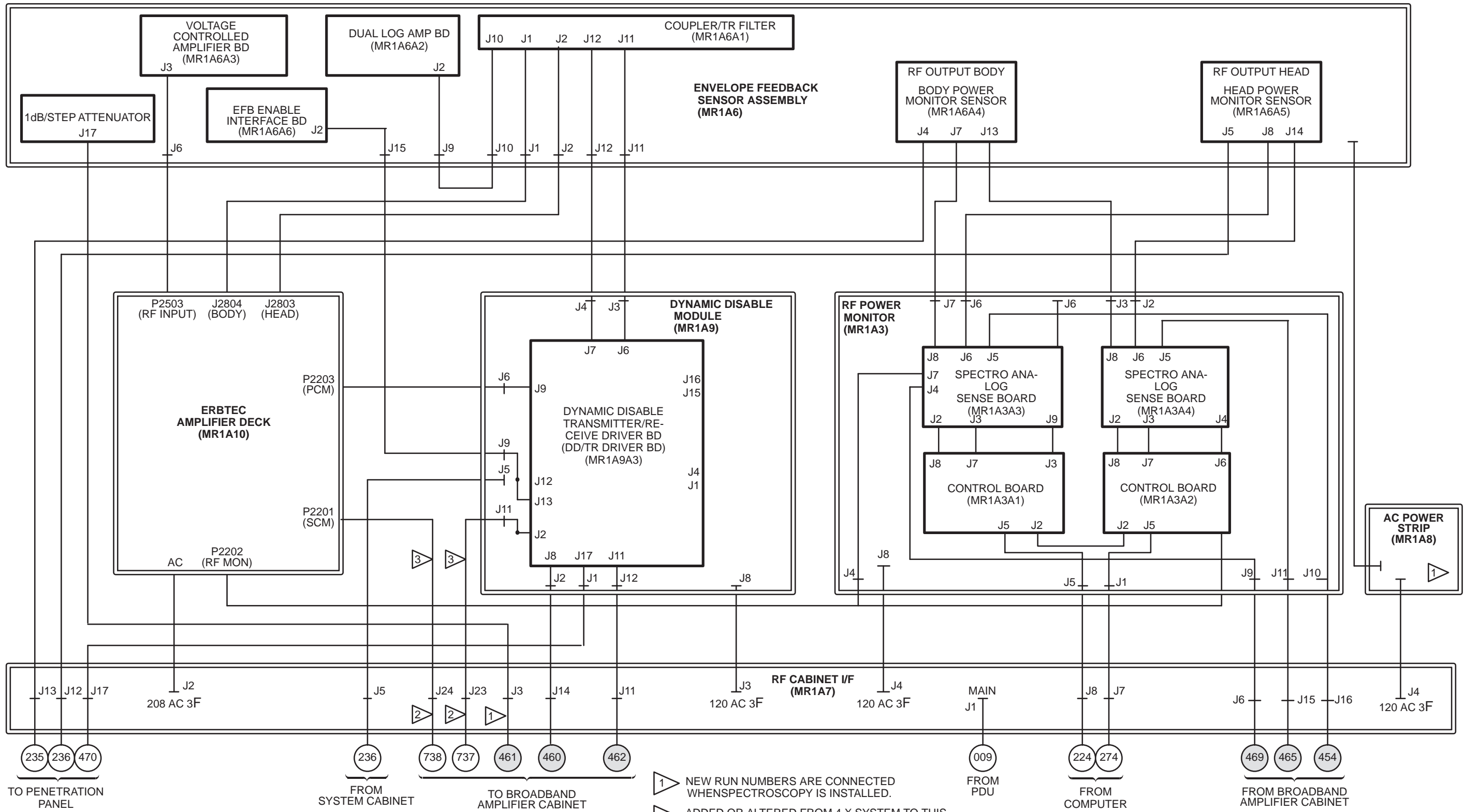
BROADBAND SPECTRO POWER MONITOR INTERCONNECTIONS (M1040FF)



BROADBAND SPECTRO POWER MONITOR INTERCONNECTIONS (M1040FK)



SIGNA ADVANTAGE RF CABINET (MR1) INTERCONNECTIONS
4.X SYSTEMS - WITH SPECTROSCOPY OPTION M1040FF AND FMI 60420

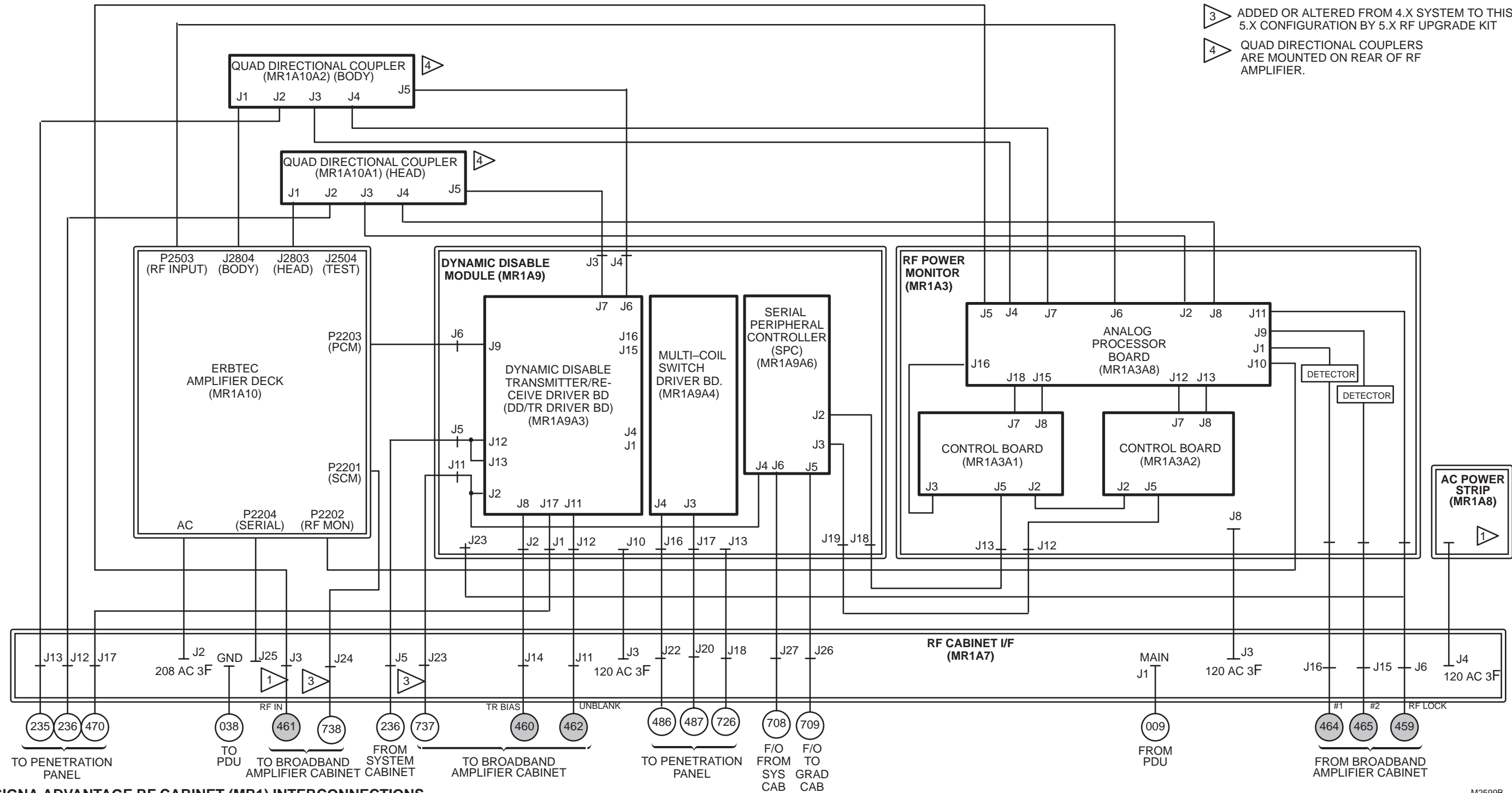


SIGNA ADVANTAGE RF CABINET (MR1) INTERCONNECTIONS
5.X SYSTEMS – WITH SPECTROSCOPY OPTION M1040FF WITH FM1 60420

- 1 NEW RUN NUMBERS ARE CONNECTED WHEN SPECTROSCOPY IS INSTALLED.
- 2 ADDED OR ALTERED FROM 4.X SYSTEM TO THIS 5.X CONFIGURATION BY 5.X RF UPGRADE KIT

M2599B7

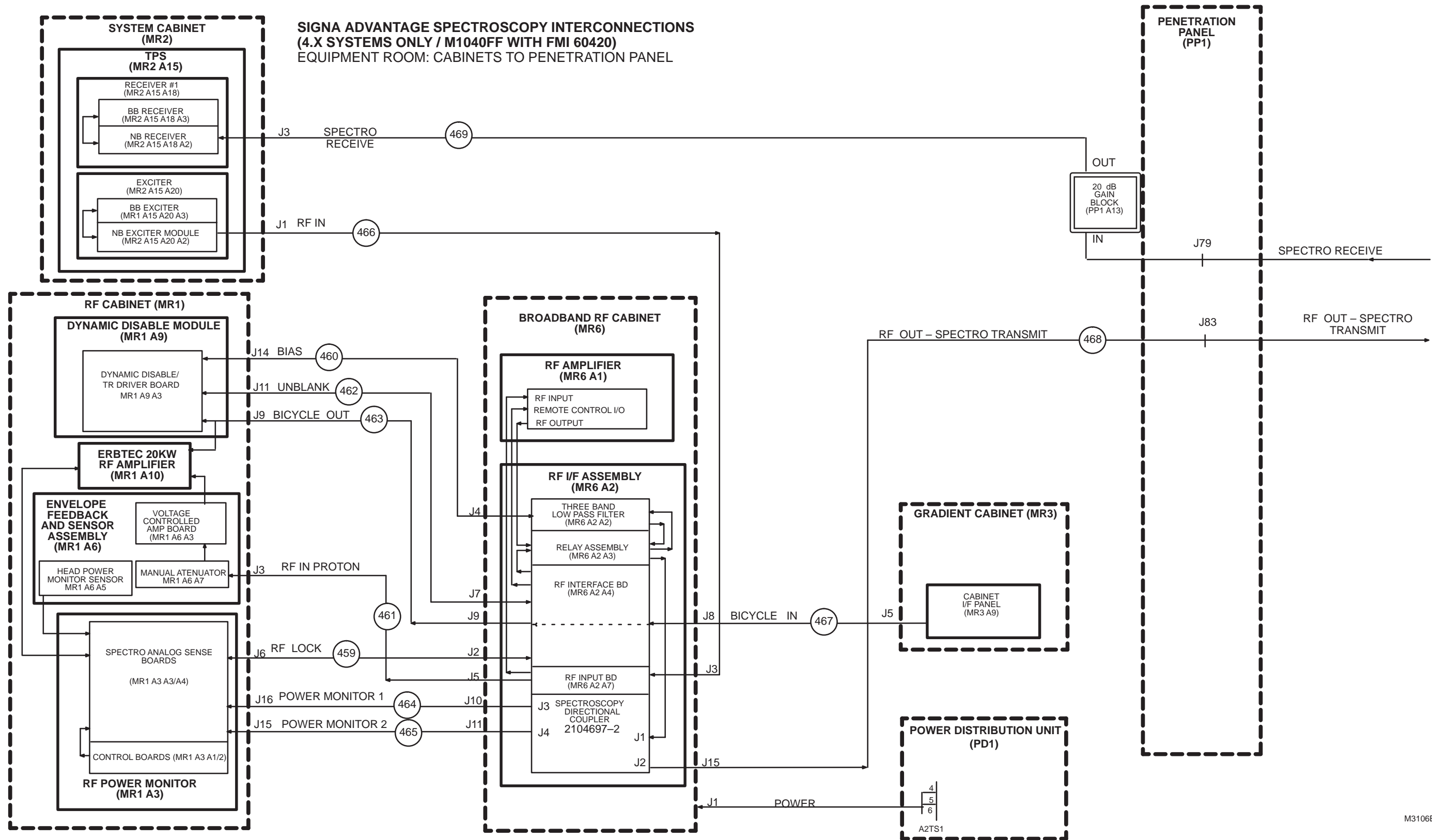
- 1 NEW RUN NUMBERS ARE CONNECTED WHEN SPECTROSCOPY IS INSTALLED.
- 3 ADDED OR ALTERED FROM 4.X SYSTEM TO THIS 5.X CONFIGURATION BY 5.X RF UPGRADE KIT
- 4 QUAD DIRECTIONAL COUPLERS ARE MOUNTED ON REAR OF RF AMPLIFIER.



SIGNA ADVANTAGE RF CABINET (MR1) INTERCONNECTIONS
5.X SYSTEMS - WITH SPECTROSCOPY OPTION M1040FK (APB CONFIGURATION)

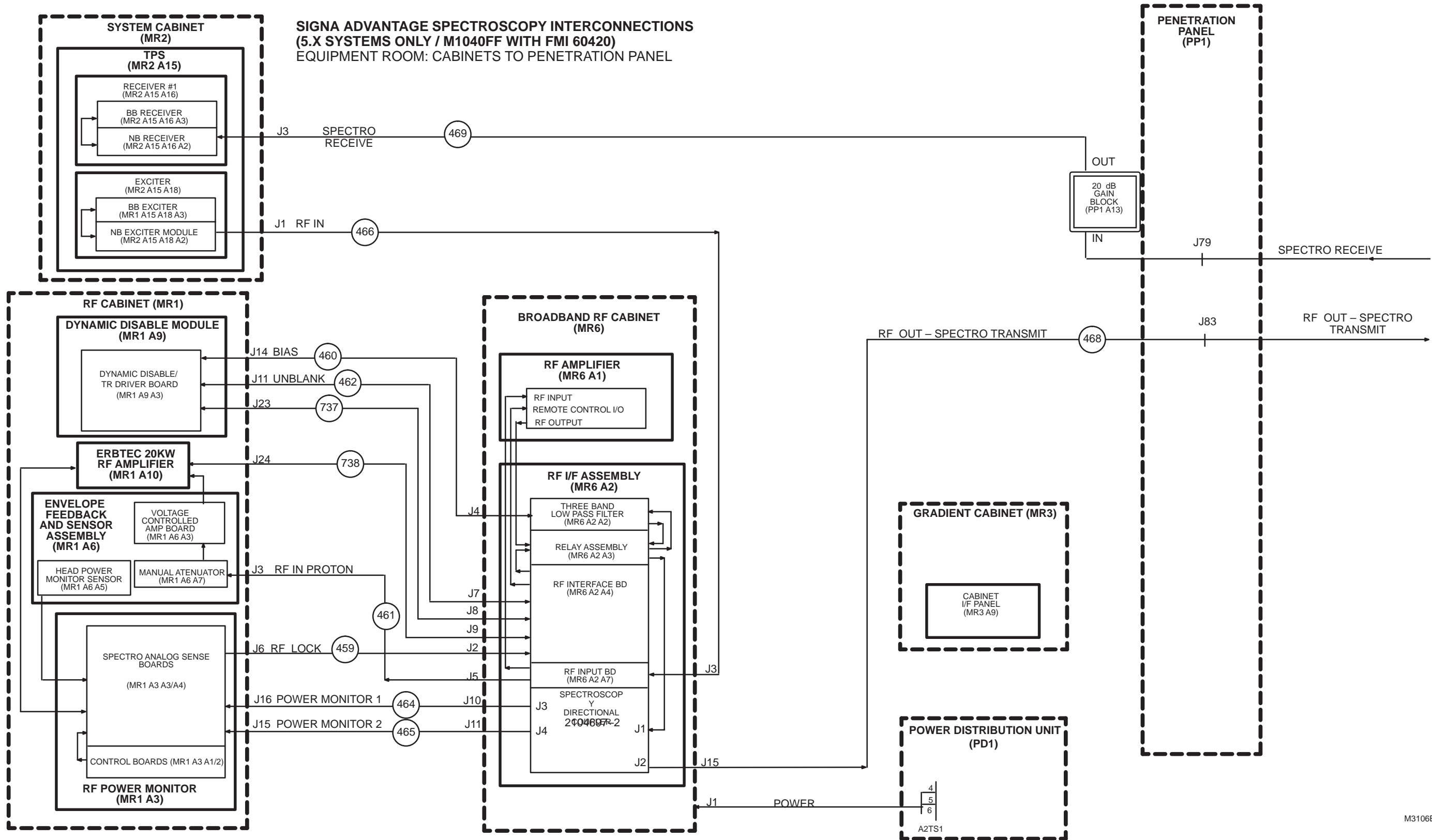
M2599B
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SIGNA ADVANTAGE SPECTROSCOPY INTERCONNECTIONS
(4.X SYSTEMS ONLY / M1040FF WITH FMI 60420)
EQUIPMENT ROOM: CABINETS TO PENETRATION PANEL



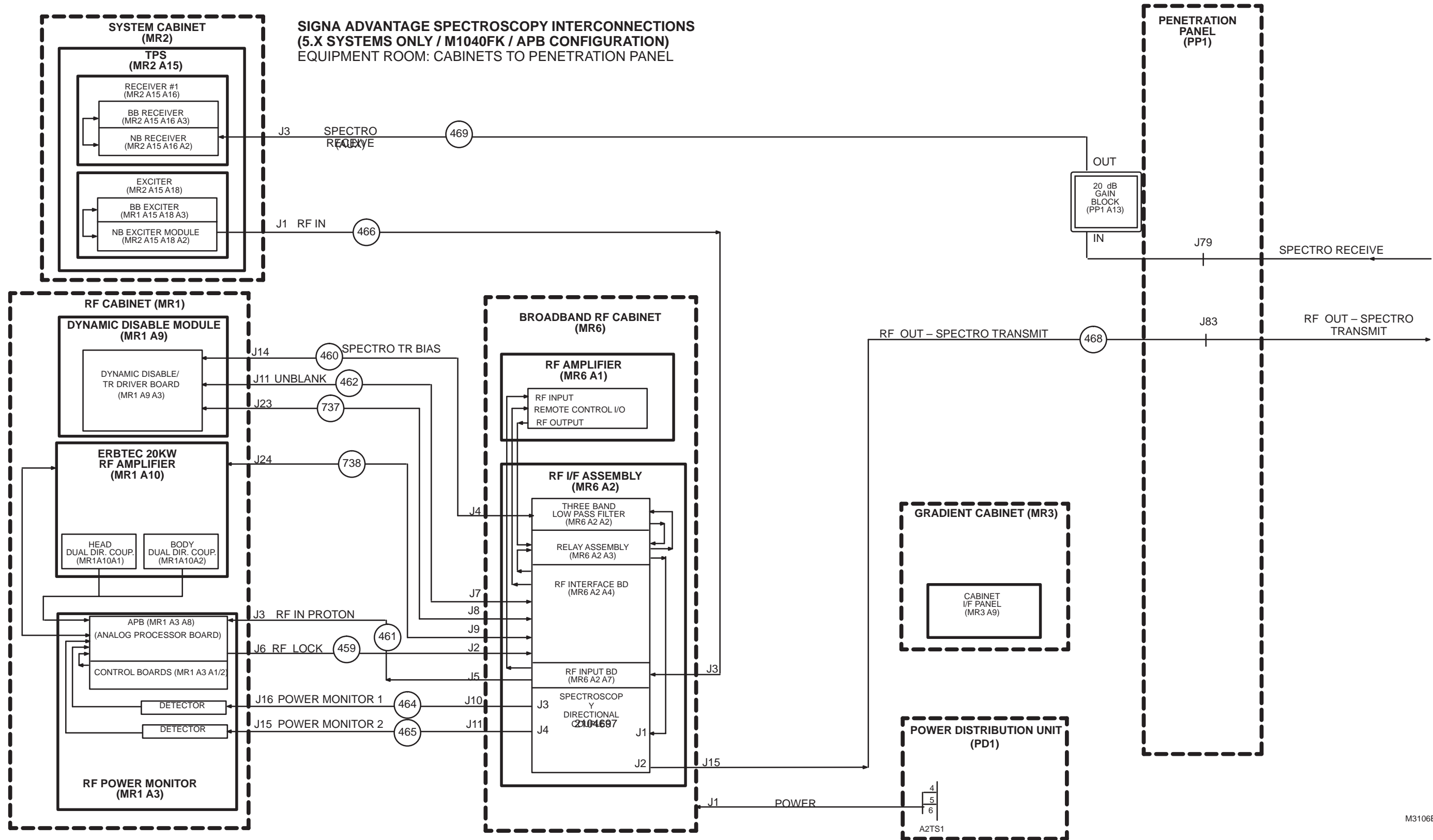
M3106B?

SIGNA ADVANTAGE SPECTROSCOPY INTERCONNECTIONS
(5.X SYSTEMS ONLY / M1040FF WITH FMI 60420)
EQUIPMENT ROOM: CABINETS TO PENETRATION PANEL



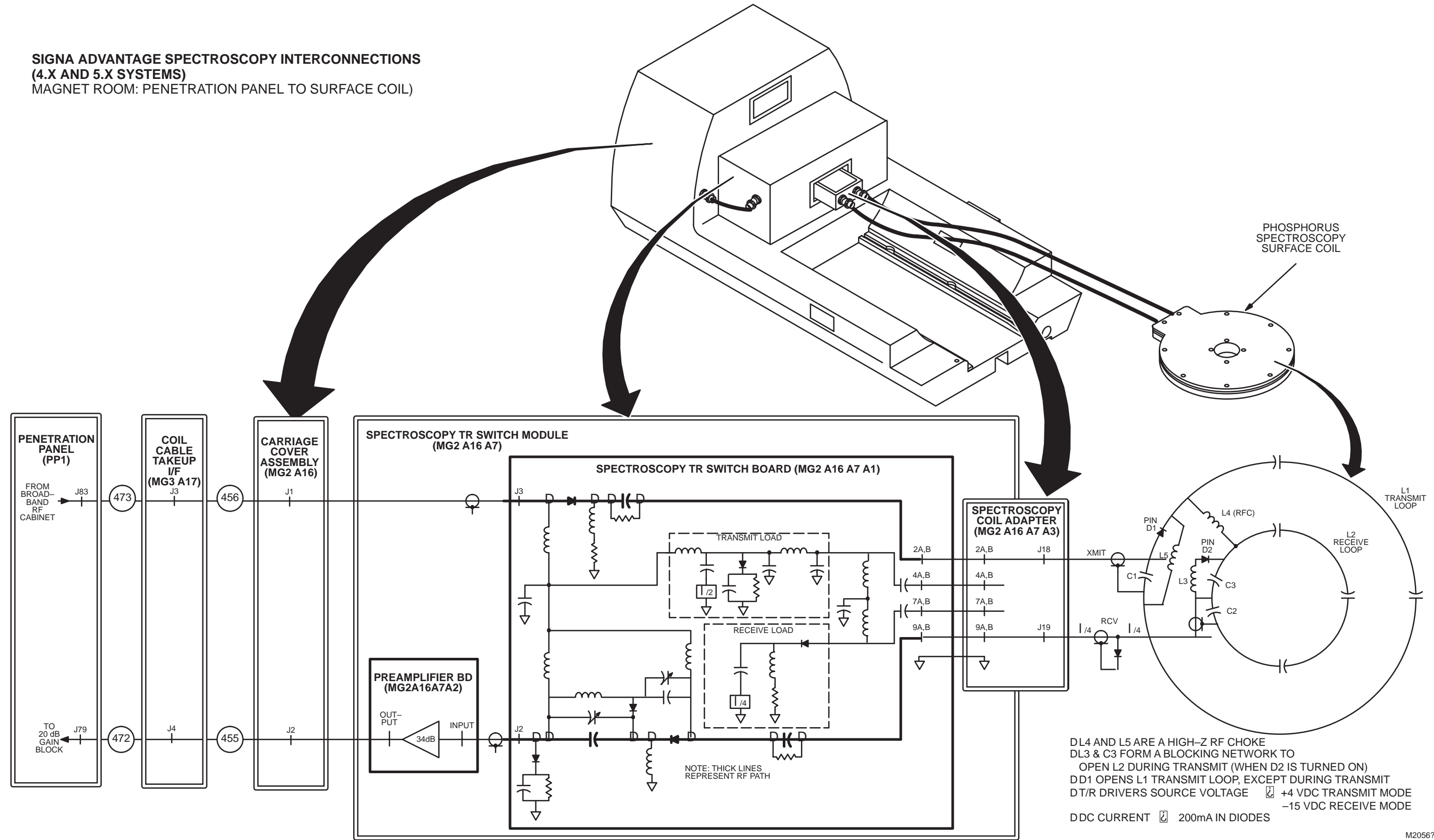
M3106B?

SIGNA ADVANTAGE SPECTROSCOPY INTERCONNECTIONS
(5.X SYSTEMS ONLY / M1040FK / APB CONFIGURATION)
EQUIPMENT ROOM: CABINETS TO PENETRATION PANEL



M3106B?

SIGNA ADVANTAGE SPECTROSCOPY INTERCONNECTIONS
(4.X AND 5.X SYSTEMS)
 MAGNET ROOM: PENETRATION PANEL TO SURFACE COIL)



M20567