

TABLE OF CONTENTS

TABLE OF CONTENTS.....1

1- RF CABINET COMPONENT LOCATIONS.....2

1-1 RF/Pen Cabinet and RF Power Monitor Component Locations2

1-2 RF/Pen Cabinet Component Locations / Front MEPS Detail2

1-3 RF/Pen Cabinet Component Locations / Front RFSC Detail3

1-4 RF/Pen Cabinet Component Locations / Interface Panel Detail4

1-5 Pin Descriptions4

1-6 RF/Pen Cabinet Component Locations / Rear MEPS Detail5

1-7 Pin Descriptions5

1-8 RF/Pen Cabinet Component Locations / Quad Directional Coupler Detail6

1-9 RF/Pen Cabinet Component Locations / Rear RFSC detail7

1-10 Pin Descriptions8

1-11 RF Amplifier (1.5T) Component Locations / Processor & High Voltage Cavities9

1-12 RF Amplifier (1.5T) Component Locations / Motor, High Voltage, PA and IPA (VTAC) Cavities10

1-13 RF Amplifier (1.5T) Component Locations / PA Cavity Detail11

1-14 RF Amplifier (1.5T) Component Locations / IPA Cavity Detail12

1-15 RF Amplifier (1.0T) Component Locations / Processor and High Voltage Cavities.....13

1-16 RF Amplifier (1.0T) Component Locations / Motor, High Voltage and PA Cavities14

1-17 RF Amplifier (1.0T) Component Locations / PA Cavity15

2- RF CABINET INTERCONNECTS16

2-1 RF/Pen Cabinet Interconnects16

2-2 RF System Controller Module Interconnects17

2-3 Magnet Enclosure Power Supply Module Interconnects18

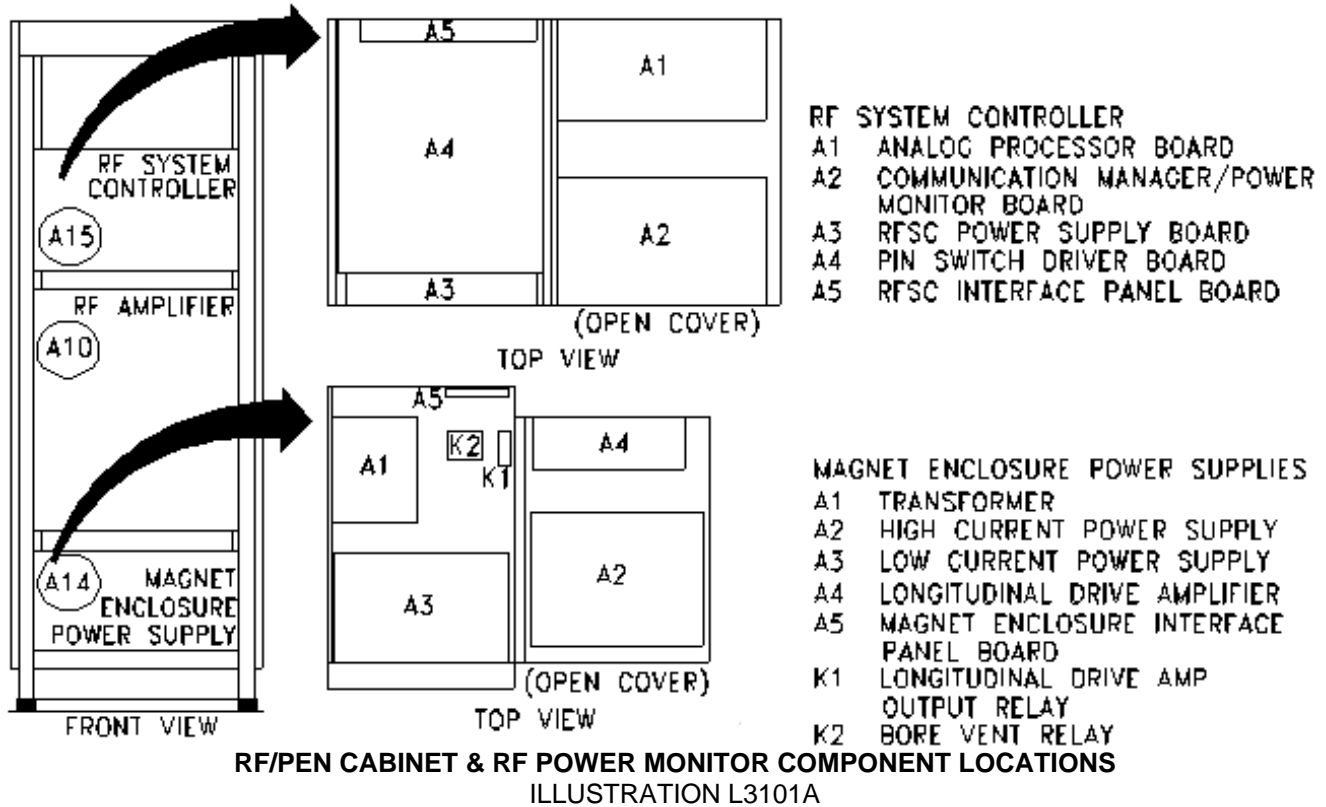
REVISION HISTORY19

Description - This section applies only to Signa 1.5T and 1.0T systems installed with the Erbtec RF/Pen cabinet.

1- RF CABINET COMPONENT LOCATIONS

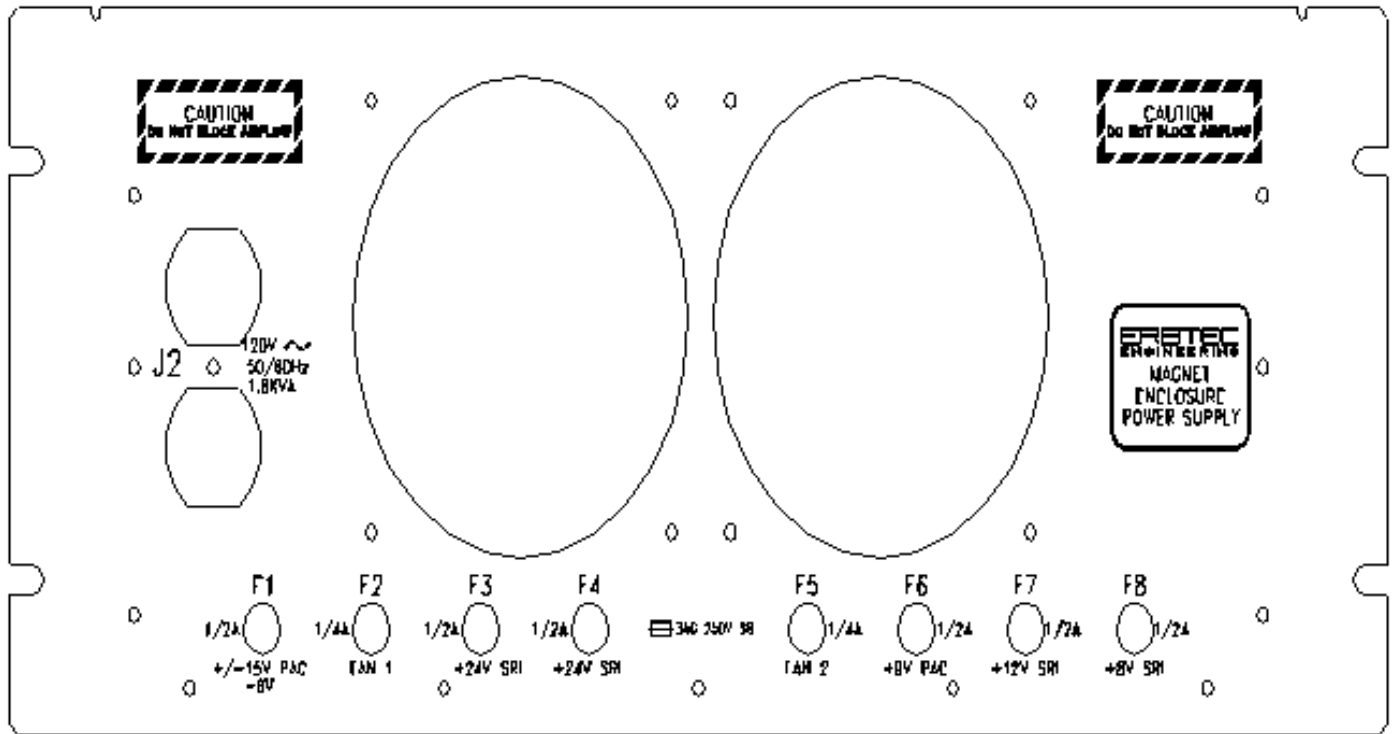
1-1 RF/Pen Cabinet and RF Power Monitor Component Locations

See Illustration L3101a



1-2 RF/Pen Cabinet Component Locations / Front MEPS Detail

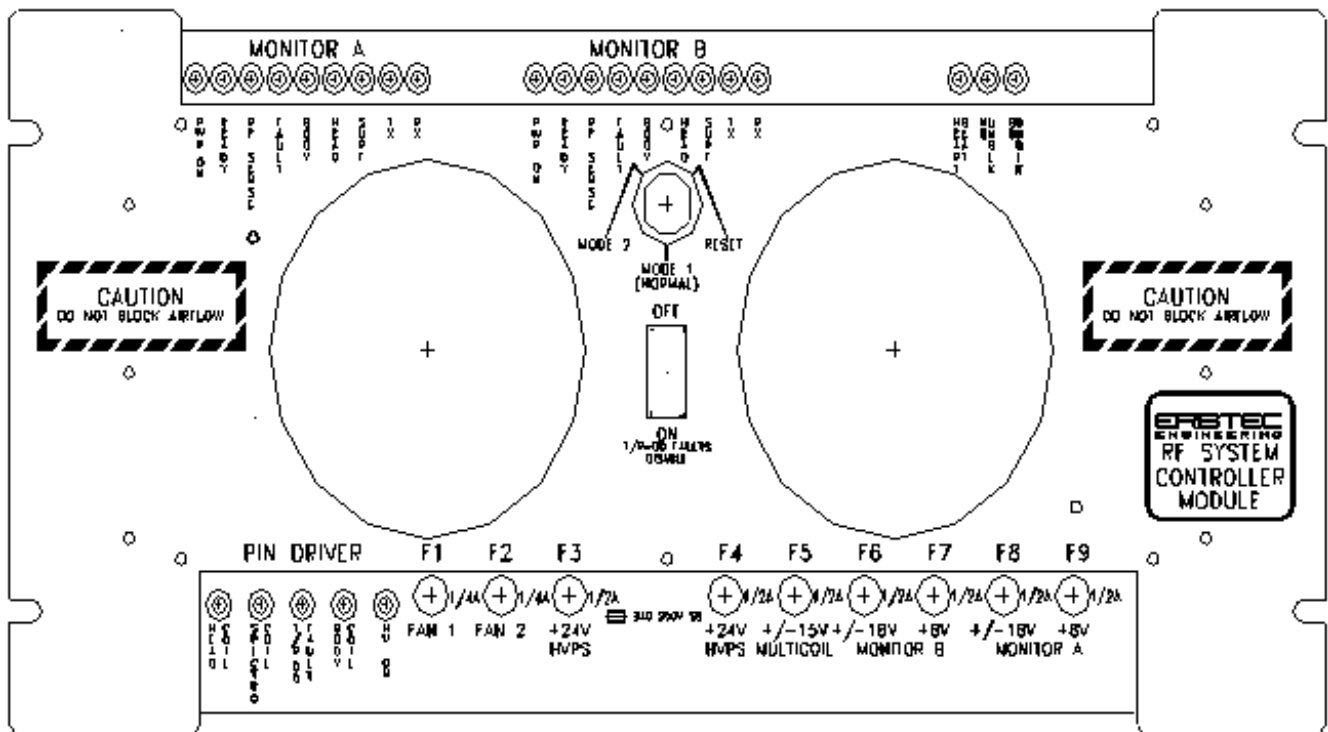
See Illustration L3162a



RF/PEN CABINET COMPONENT LOCATIONS / FRONT MEPS DETAIL
ILLUSTRATION L3162A

1-3 RF/Pen Cabinet Component Locations / Front RFSC Detail

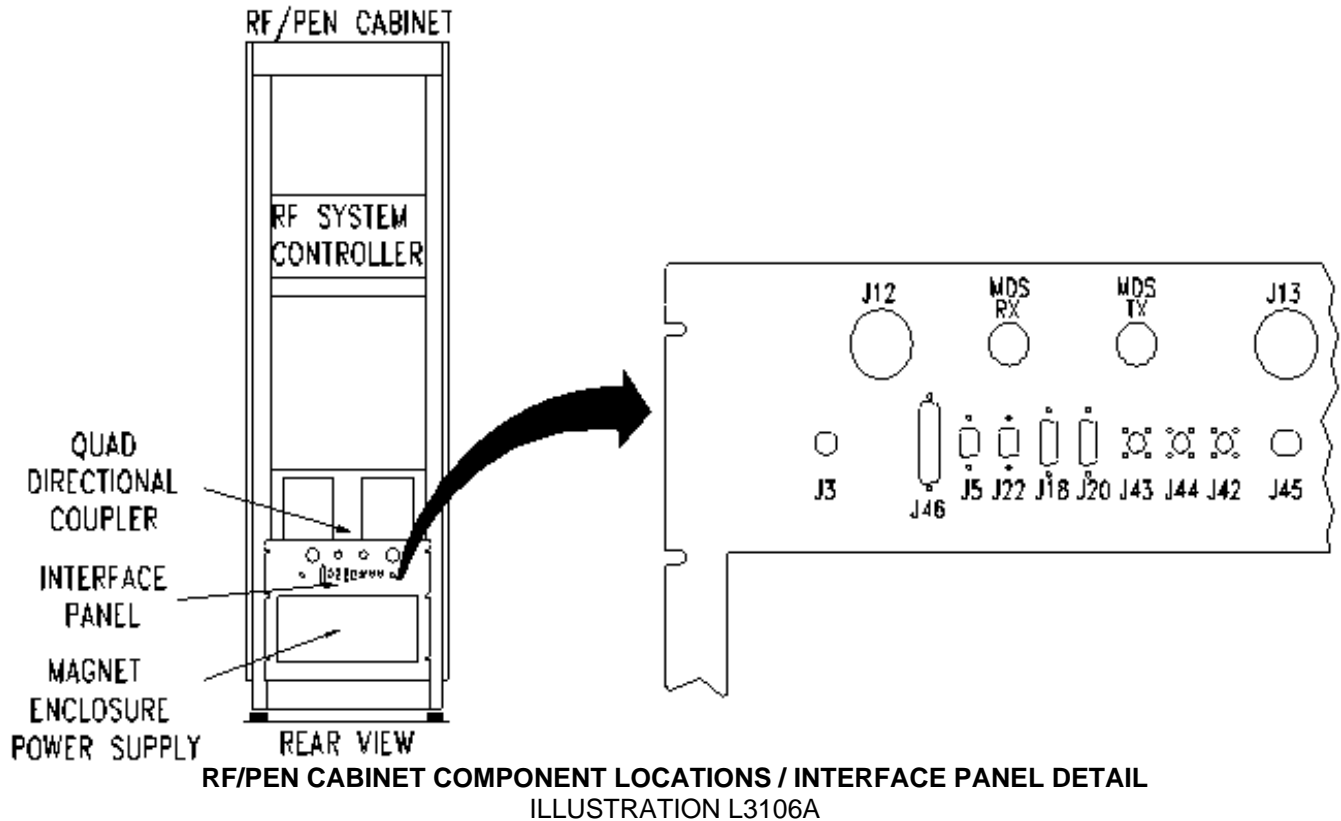
See Illustration L3161a



RF/PEN CABINET COMPONENT LOCATIONS / FRONT RFSC DETAIL
ILLUSTRATION L3161A

1-4 RF/Pen Cabinet Component Locations / Interface Panel Detail

See Illustration L3106a



1-5 Pin Descriptions

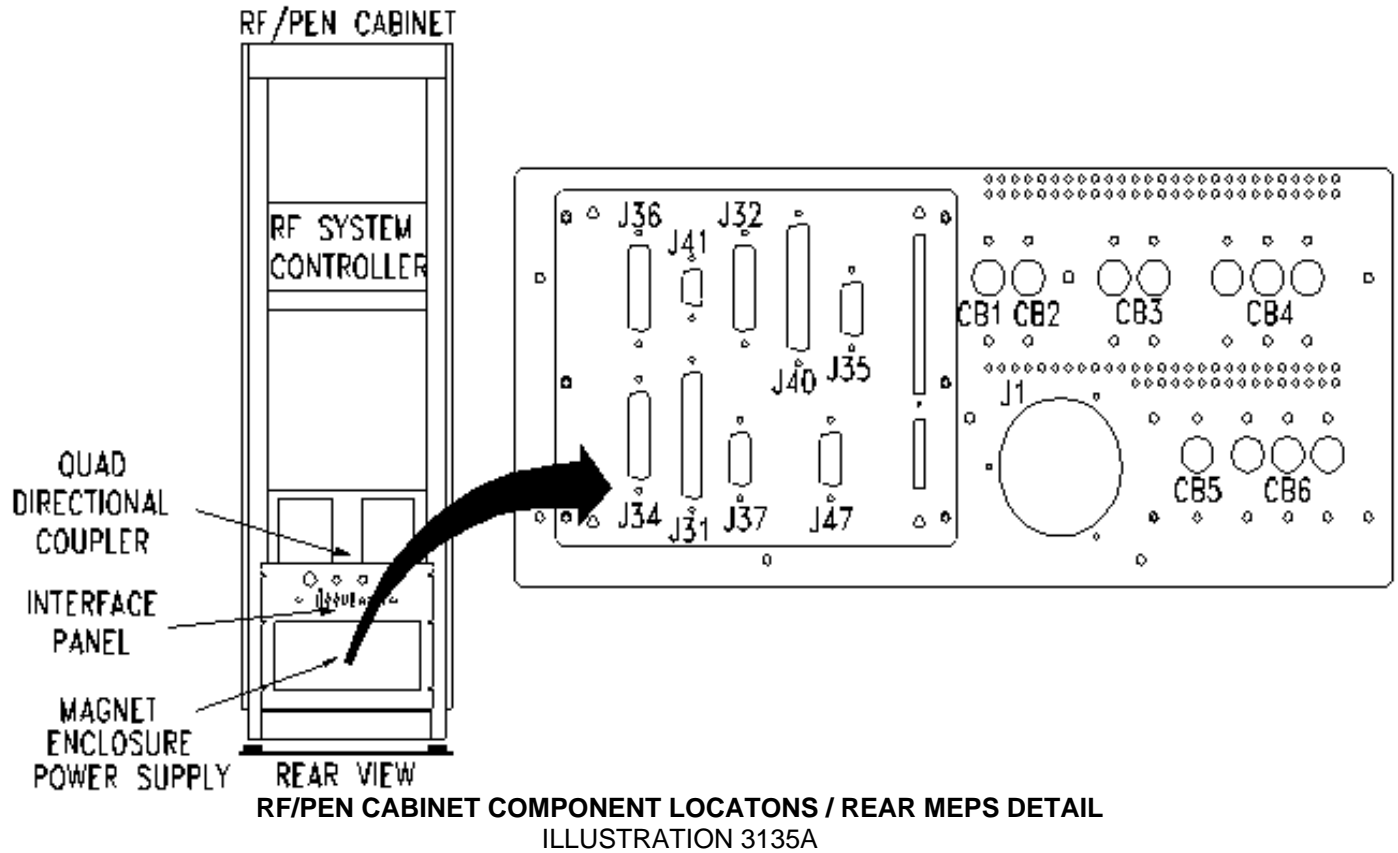
See Table 1

TABLE 1
PIN DESCRIPTIONS

Pin	Descriptions
J12	HEAD OUT & TR BIAS
J3	RF IN
J45	SPECTRO OUT & TR BIAS
J46	SERIAL PORT
J6	UNBLANK ENABLE
J22	MULTICOIL SIGNALS
J18	MULTICOIL TR BIAS
J20	MULTICOIL SELECT
J42, J43, J44	DYNAMIC DISABLE DRIVERS J43 - BODY2 J44 - DD J42 - BODY1
J13	BODY OUT & TR BIAS

1-6 RF/Pen Cabinet Component Locations / Rear MEPS Detail

See Illustration L3135a



1-7 Pin Descriptions

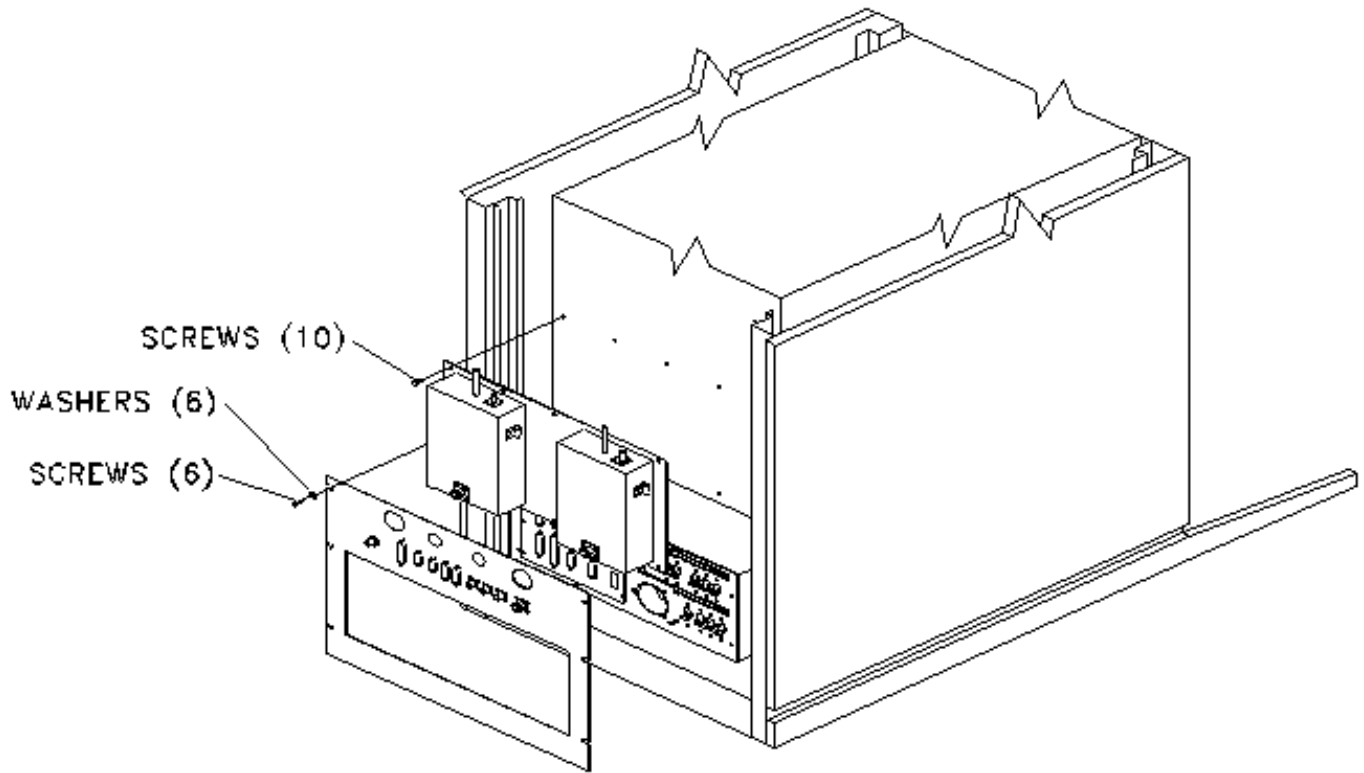
See Table 2

TABLE 2
PIN DESCRIPTION

Pin	Description
CB1	BORE VENT FAN
CB2	GRADIENT FAN
CB3	BROADBAND AMP
CB4	NARROWBAND AMP
CB5	DUPLEX OUTLET
CB6	MAIN
J1	AC IN
J35	PAC
J40	SRI
J32	TTL
J41	LONGITUDINAL AMP
J36	DOCK
J34	BORE LIGHT
J31	PATIENT ALIGNMENT LIGHT
J37	BORE VENT FAN
J47	GRADIENT FAN

1-8 RF/Pen Cabinet Component Locations / Quad Directional Coupler Detail

See Illustration L3134a

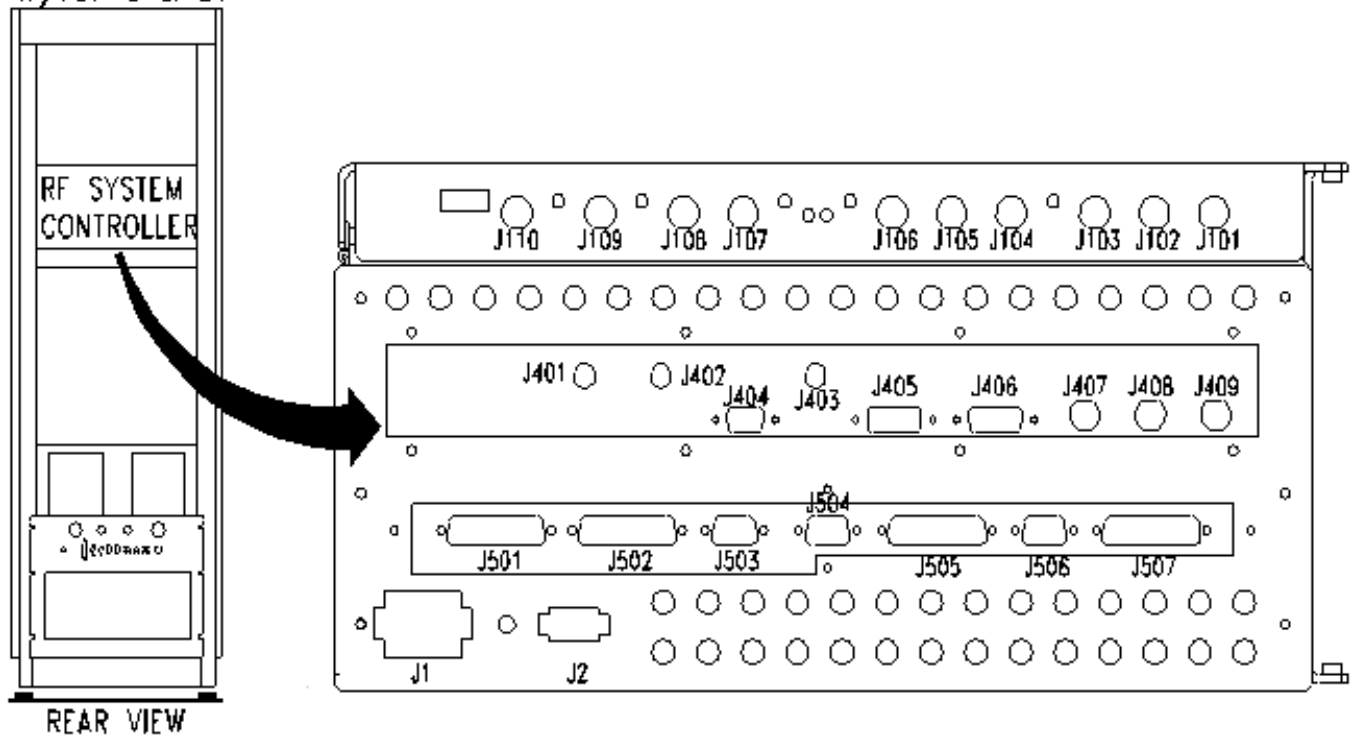


RF/PEN CABINET COMPONENT LOCATIONS / QUAD DIRECTIONAL COUPLER
ILLUSTRATION L3134A

1-9 RF/Pen Cabinet Component Locations / Rear RFSC detail

See Illustration L3151a

RF/PEN CABINET



RF/PEN CABINET COMPONENT LOCATIONS / REAR RFSC DETAIL
ILLUSTRATION L3151A

1-10 Pin Descriptions

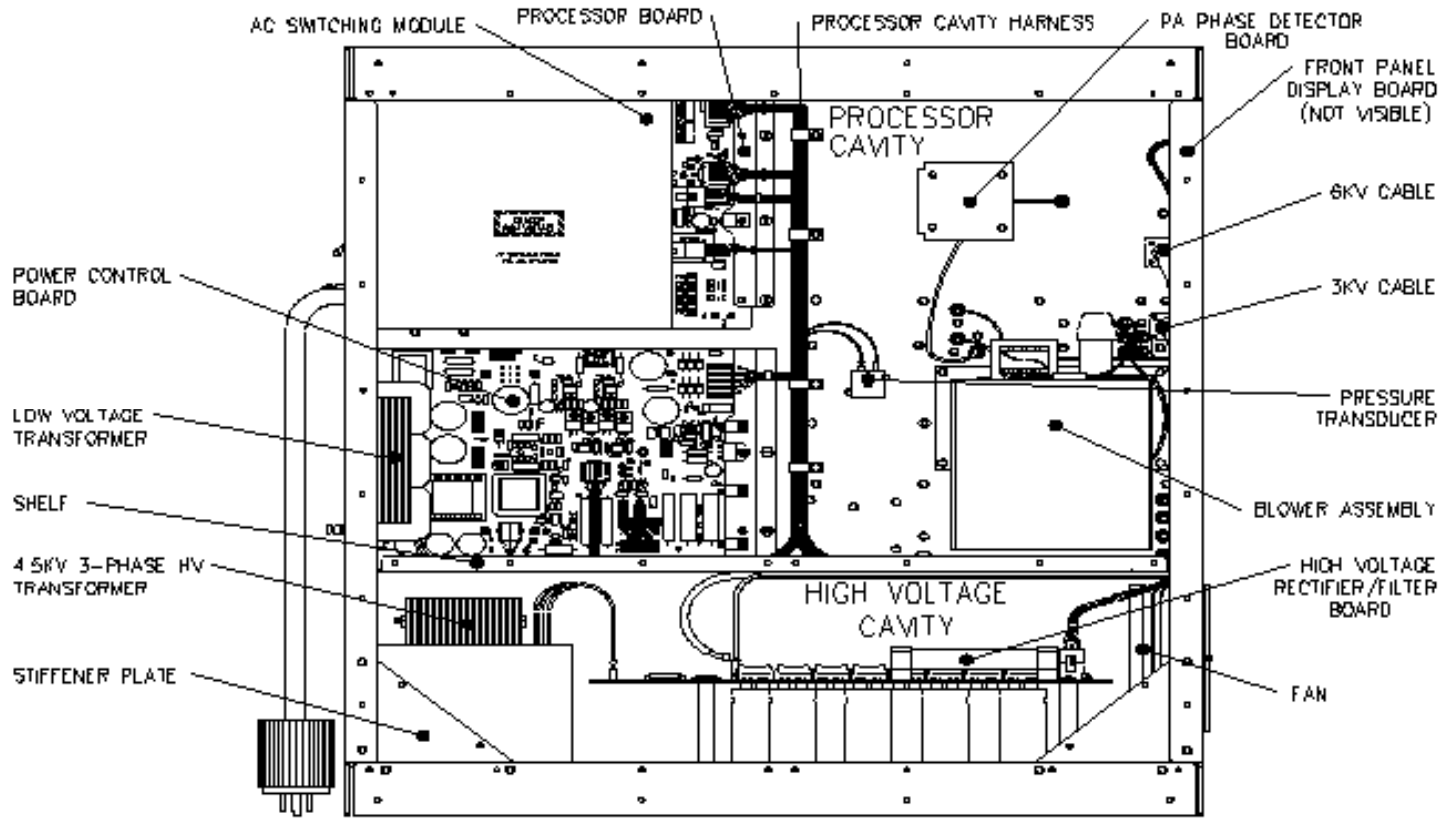
See Table 3

TABLE 3
PIN DESCRIPTION

Pin	Description
J110	BODY IN A
J109	SVC OUT
J108	HEAD IN A
J107	BODY IN B
J106	HEAD IN B
J105	RF IN
J104	SPECTRO RF OUT
J103	EFB RF OUT
J102	SPECTRO IN B
J101	SPECTRO IN A
J401	BODY 2
J402	DD
J403	BODY 1
J404	MULTICOIL SELECT
J405	MULTICOIL T/R BIAS
J406	MULTICOIL SIGNALS
J407	T/R BIAS SPECTRO
J408	T/R BIAS BODY
J409	T/R BIAS HEAD
J501	NB SERIAL PORT
J502	SVC SERIAL PORT
J503	RF MON
J504	PCM
J505	SRCTL
J506	NB BB UNBLANK
J507	SPECTRO

1-11 RF Amplifier (1.5T) Component Locations / Processor & High Voltage Cavities

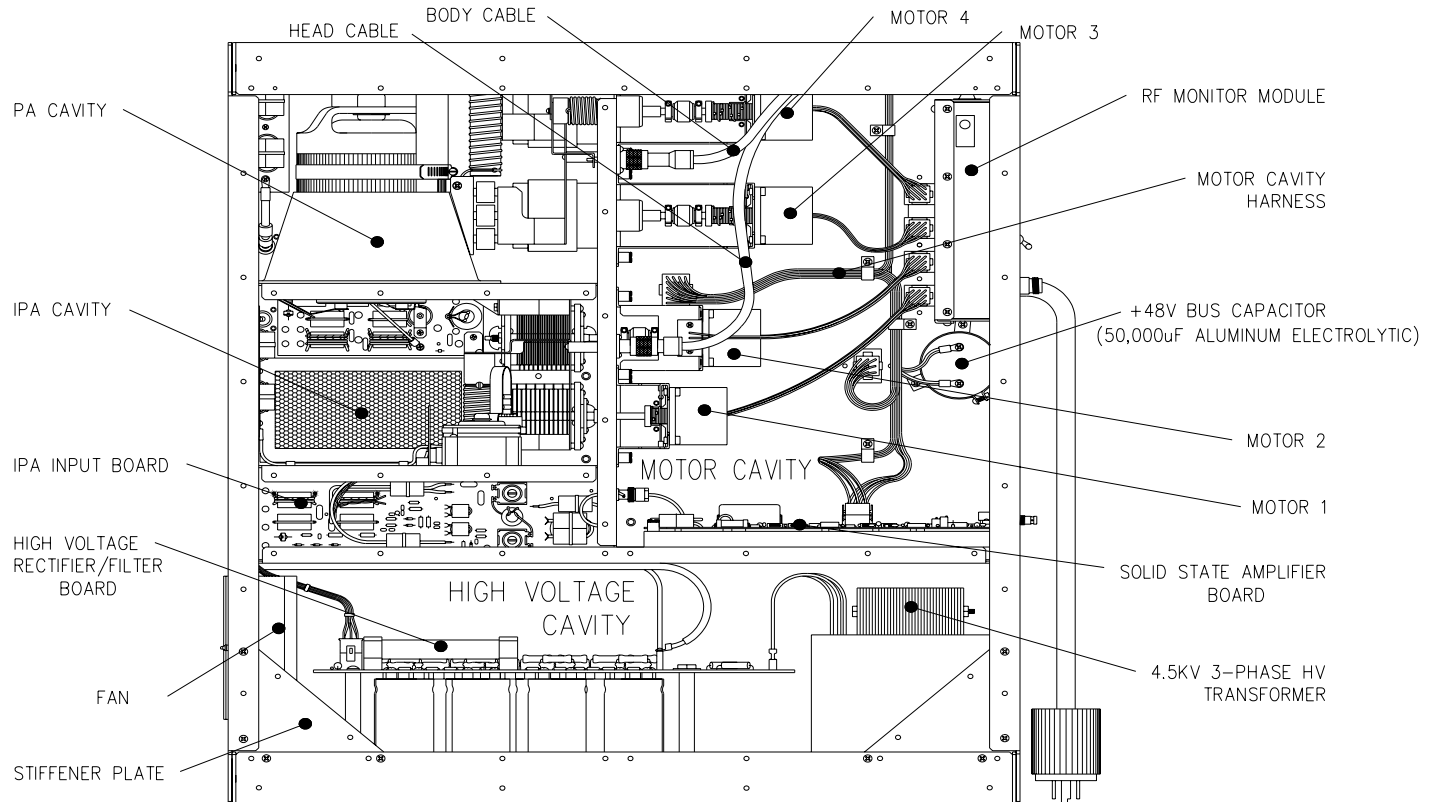
See Illustration L3156a



RF AMP (1.5T) COMPONENT LOCATIONS / PROCESSOR & HIGH VOLTAGE CAVITIES
ILLUSTRATION L3156A

1-12 RF Amplifier (1.5T) Component Locations / Motor, High Voltage, PA and IPA (VTAC) Cavities

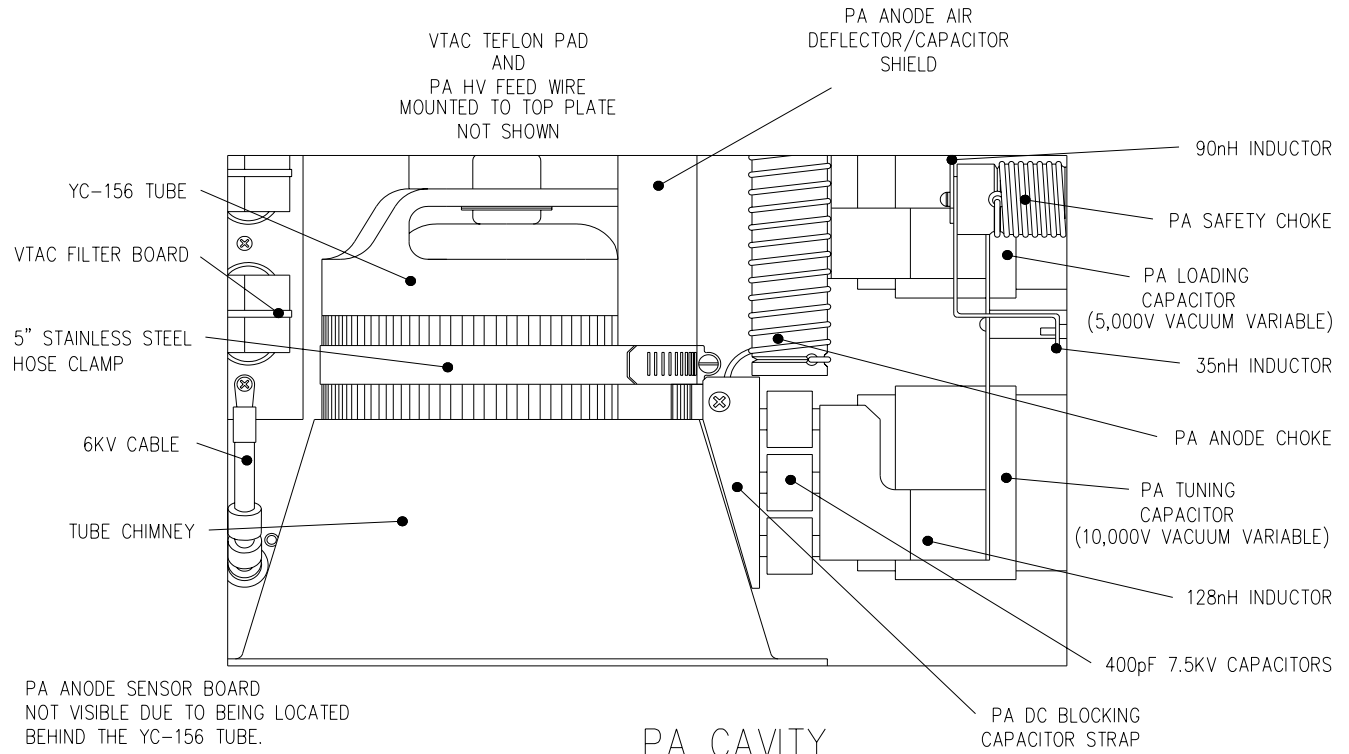
See Illustration L3157a



**RF AMP (1.5T) COMPONENT LOCATIONS / MOTOR, HIGH VOLTAGE, PA AND IPA
ILLUSTRATION L3157A**

1-13 RF Amplifier (1.5T) Component Locations / PA Cavity Detail

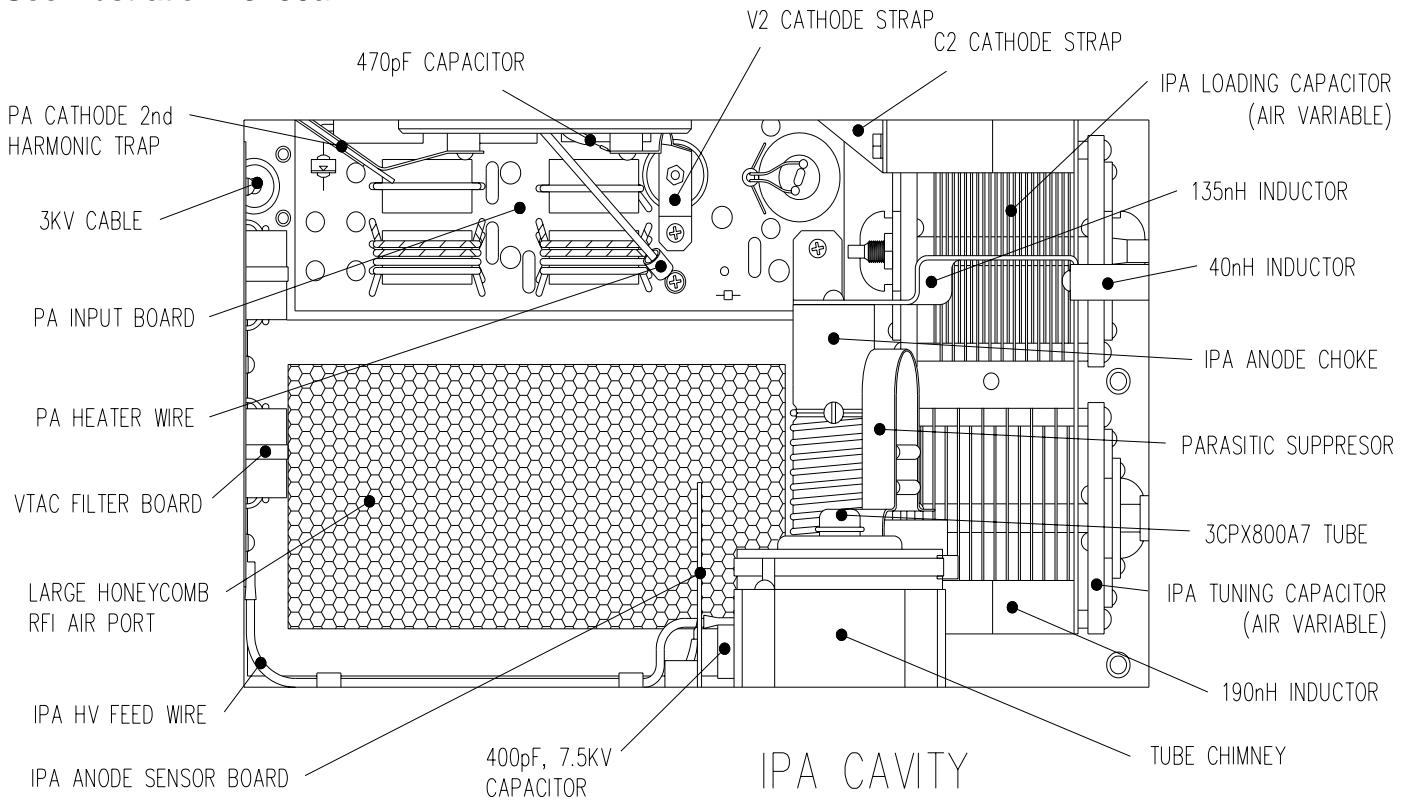
See Illustration L3158a



RF AMPLIFIER (1.5T) COMPONENT LOCATIONS / PA CAVITY DETAIL
ILLUSTRATION L3158A

1-14 RF Amplifier (1.5T) Component Locations / IPA Cavity Detail

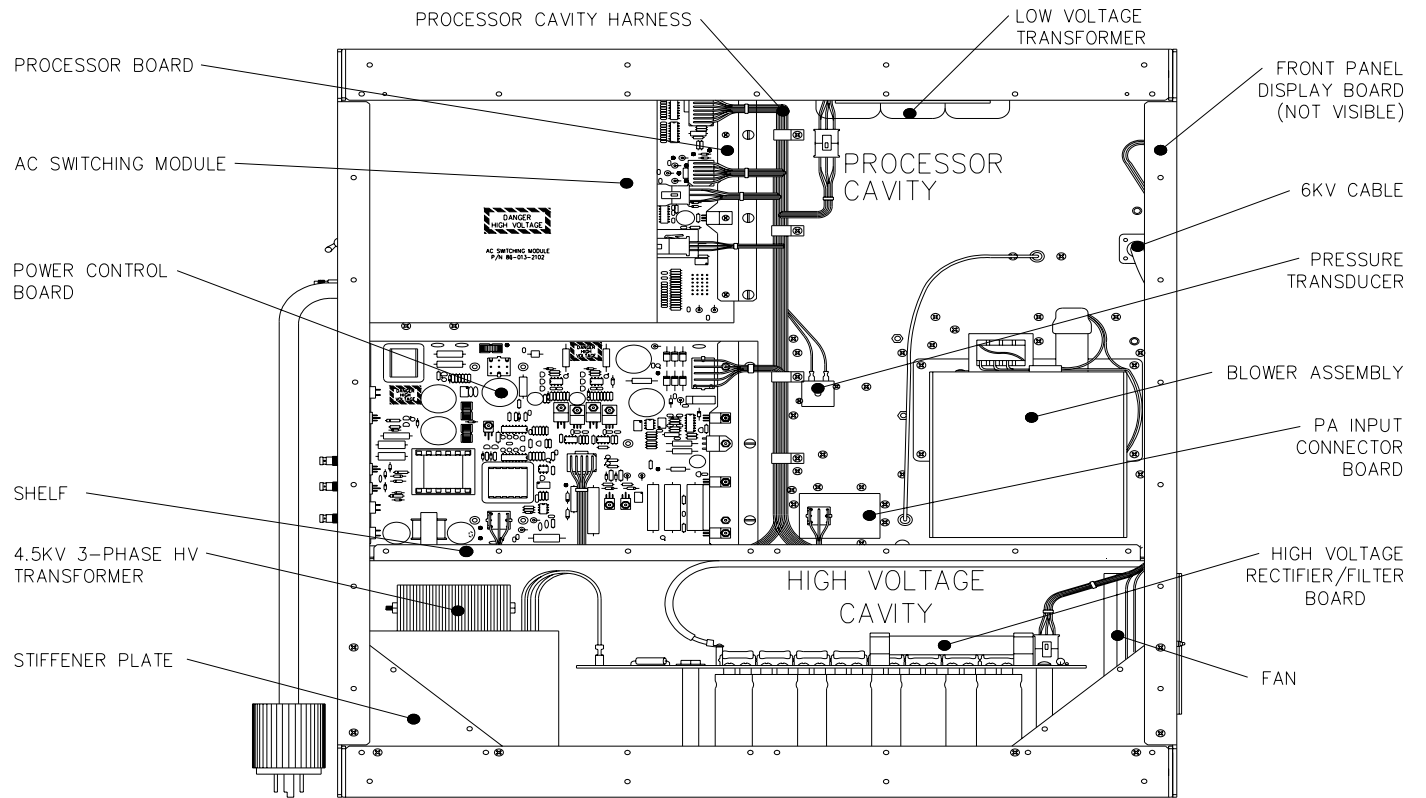
See Illustration L3159a



RF AMPLIFIER (1.5T) COMPONENT LOCATIONS / IPA CAVITY DETAIL
ILLUSTRATION L3159A

1-15 RF Amplifier (1.0T) Component Locations / Processor and High Voltage Cavities

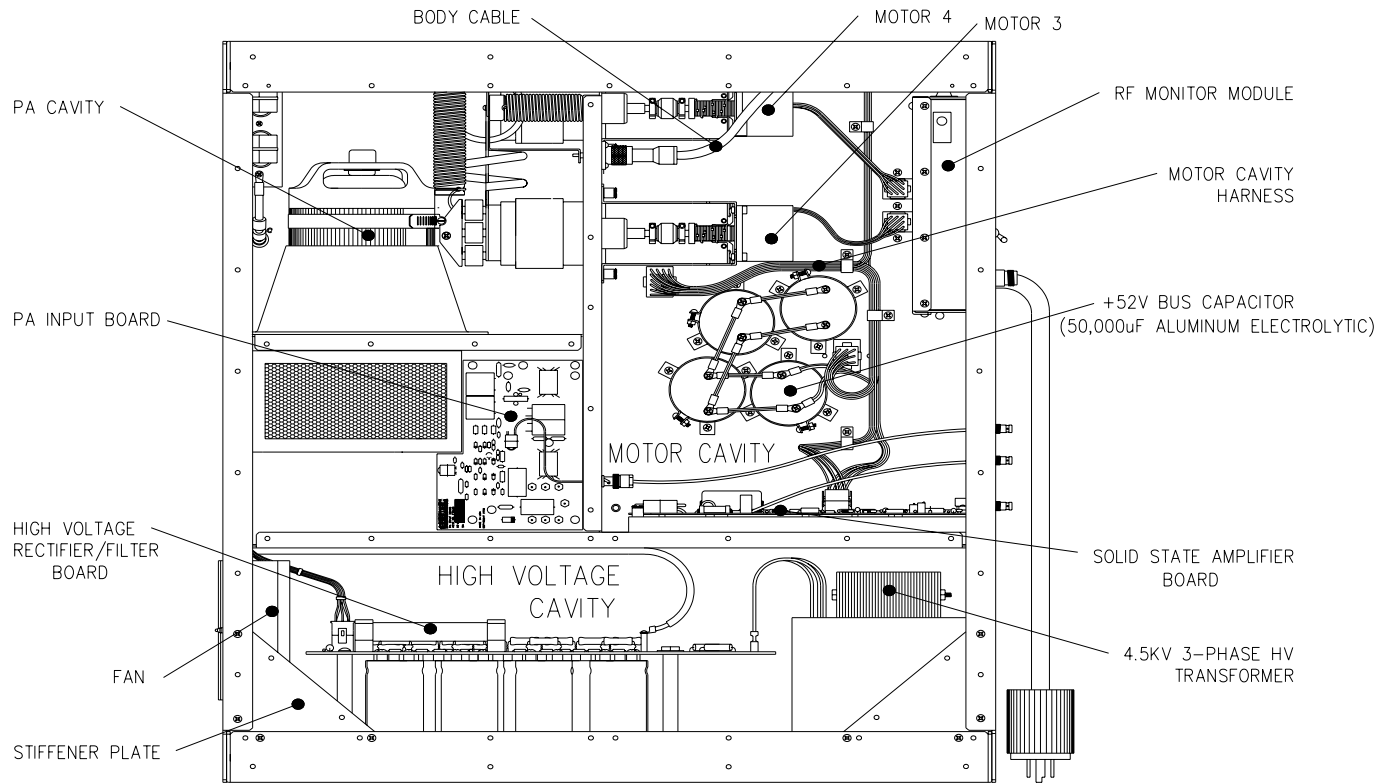
See Illustration L3153a



RF AMP (1.0T) COMPONENT LOCATIONS / PROCESSOR AND HIGH VOLTAGE ILLUSTRATION L3153A

1-16 RF Amplifier (1.0T) Component Locations / Motor, High Voltage and PA Cavities

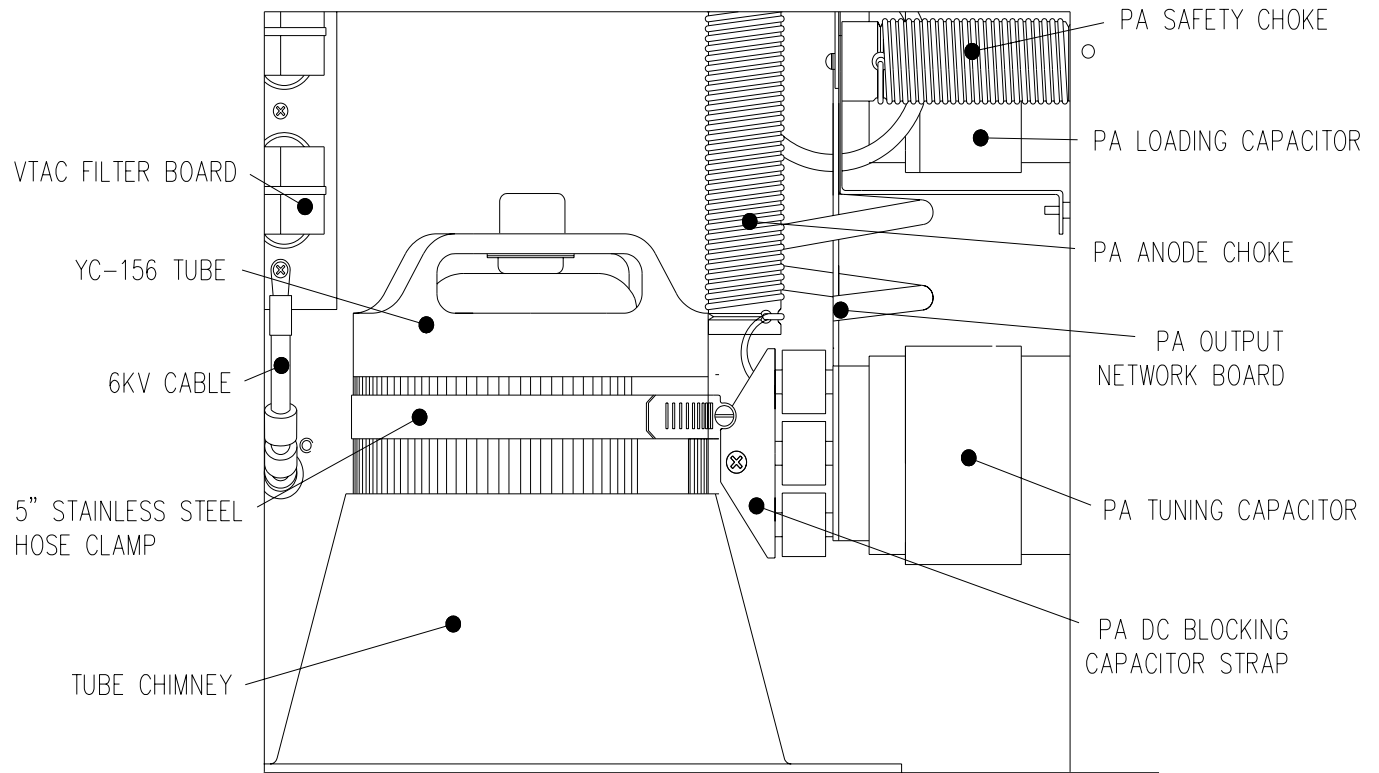
See Illustration L3154a



**RF AMP (1.0T) COMPONENT LOCATIONS / MOTOR, HIGH VOLTAGE AND PA CAVITIES
ILLUSTRATION L3154A**

1-17 RF Amplifier (1.0T) Component Locations / PA Cavity

See Illustration L3155a



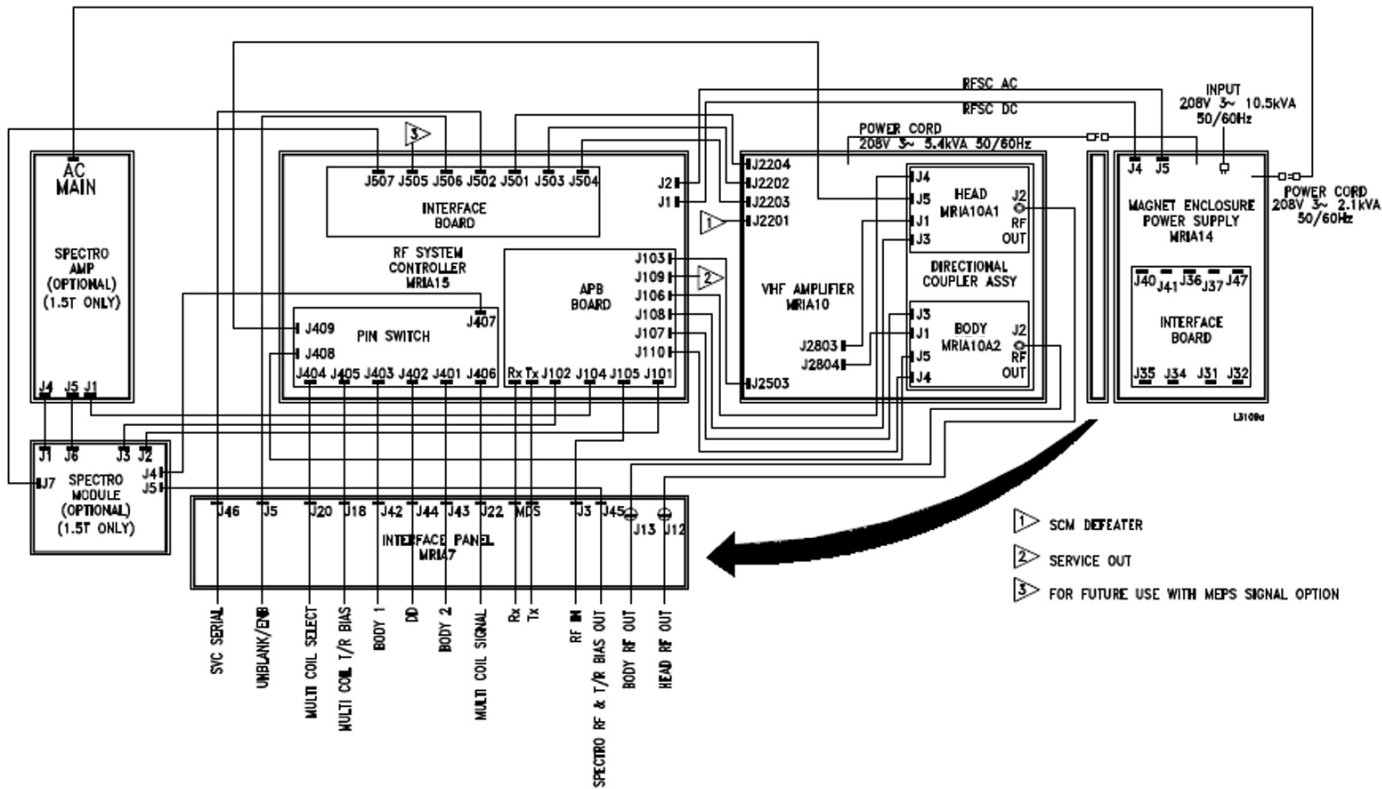
RF AMPLIFIER (1.0T) COMPONENT LOCATIONS / PA CAVITY
ILLUSTRATION L3155A

2- RF CABINET INTERCONNECTS

This section applies to Signa 1.5T and 1.0T systems only.

2-1 RF/Pen Cabinet Interconnects

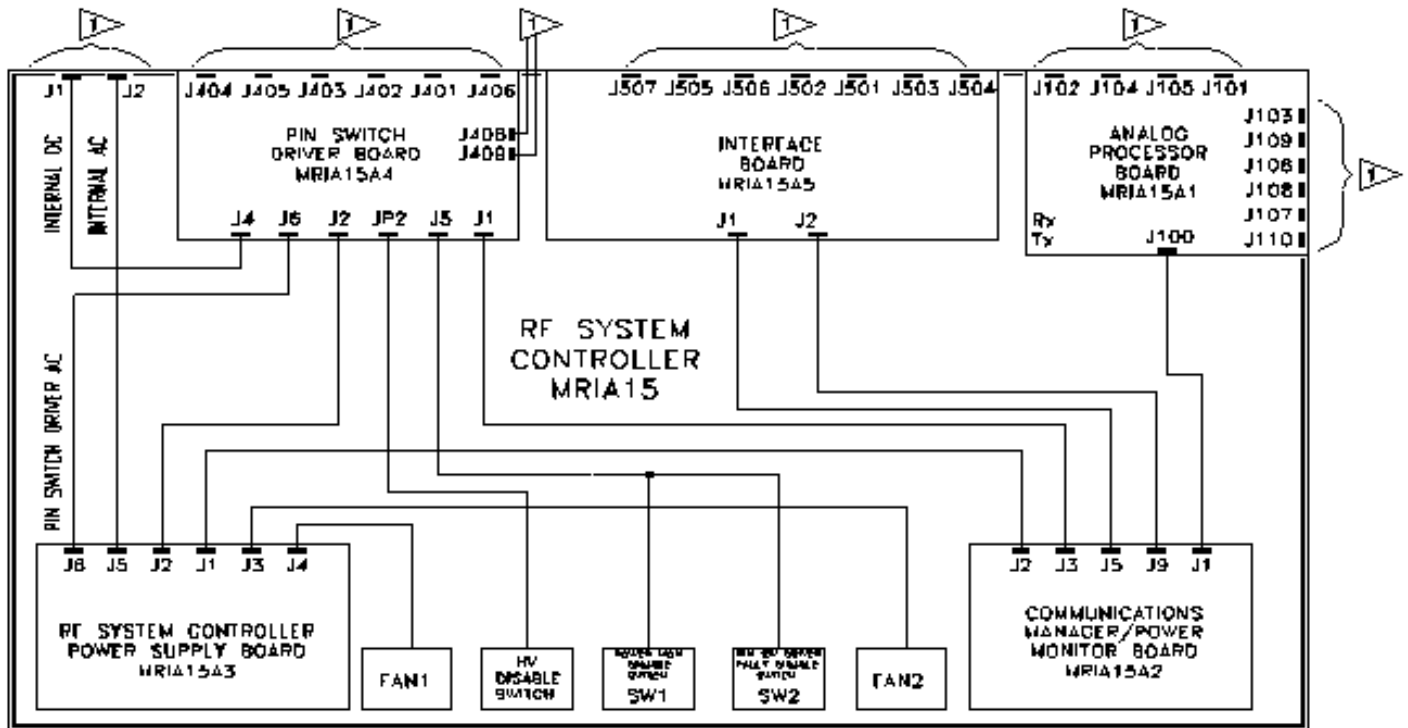
See Illustration L3109a



RF/PEN CABINET INTERCONNECTS
ILLUSTRATION L3109A

2-2 RF System Controller Module Interconnects

See Illustration L3142a

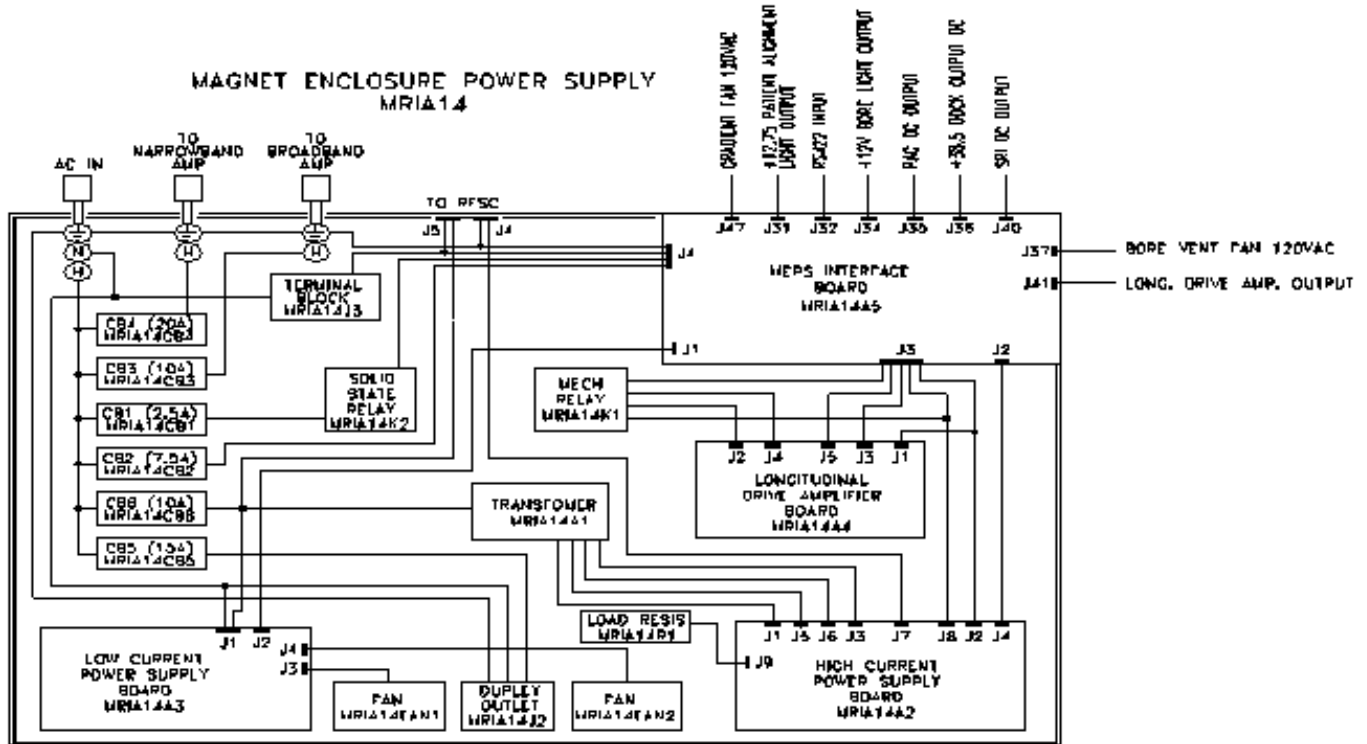


SEE RF/PEN CABINET INTERCONNECT FOR DETAILS

RF SYSTEM CONTROLLER MODULE INTERCONNECTS
ILLUSTRATION L3142A

2-3 Magnet Enclosure Power Supply Module Interconnects

See Illustration L3143a



MAGNET ENCLOSURE POWER SUPPLY MODULE INTERCONNECTS
ILLUSTRATION L3143A

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	July 15, 1998	J. Saperstein	Initial conversion from Toolbook to Word.
1	July 17, 2006	K.Keshena	Updated Illustration L3109A on page 16. The Head section of the RF AMP was changed to be referenced as MR1A10A1 and the Body section was changed to be referenced as MR1A10A2 to resolve, SPR MRIhc11045.