

# Varian Mercury Family NMR System:

Mercury → Mercury Vx → Mercury Plus (Stopped production 2007)

Mercury Overview: System Overview, 87-192312-00A, 19 pp., [PDF \(495 KiB\)](#)

Mercury VX: System Overview, 01-999020-00C, 20 pp., [HTML](#), [PDF \(324 KiB\)](#)

Mercury Plus: Overview: System Overview, 01-999184-00B, 21 pp., [PDF \(8.2 MiB\)](#)

## Mercury Plus NMR System:

### Console Digital Section

Mercury Plus is the newest console:

Acquisition CPU: part #: 01-905942-00

STM/OUTPUT board: Schematic No. 01-901367-00 part # 01-901364-00

16-bit ADC Board: Schematic # 01-905105-00 Part # 01-905102-00

### Console RF Section

**Junction Board:** schematic # 01-901681 part # 01-901678

#### High/Low Band Reference Generator

200 MHz schematic # 01-901552 Part Number: 01-993948-01

300 MHz Schematic # 01-907839 Part Number: 00-993948-50

400 MHz /schematic # 01-907841 Part Number:00-993948-52

**5-Nuclei Reference Generator** 200 MHz ONLY schematic # 01-905853-00 Part # 01-905856-51

#### Low-Band Transmitter

200 MHz Schematic # 01-901550-00 Part # 00-992842-07

300 MHz Schematic # 00-992845-00 Part # 01-902195-00

400 MHz Schematic # 01-902195-00 Part # 00-992842-08

#### Broadband Observe Receiver

200 MHz Schematic # 01-905762-00 Part # 01-905750-01  
300 MHz Schematic # 01-905753-00 Part # 01-905750-00  
400 MHz Schematic # 01-9055764-00 Part # 01-905750-02

### High-Band Transmitter, Hetero Decoupler

200 MHz Schematic # 01-901548-00 Part # 00-992846-04  
300 MHz Schematic # 00-992849-00 Part # 00-992846-03  
400 MHz Schematic # 01-902191-00 Part # 00-992846-05

### Homonuclear Decoupler

200 MHz Schematic # 01-901549-00 Part # 00-992870-07  
300 MHz Schematic # 00-992873-00 Part # 00992870-06  
400 MHz Schematic # 01-902193-00 Part # 00-992870-08

### Lock Transmitter

200 MHz Schematic # 01-901557-00 Part # 01-901554-02  
300 MHz Schematic # 01-907843-00 Part # 00-993416-55  
400 MHz Schematic # 01-907844-00 Part # 00-993416-56

### BroadBand Lock Receiver (200, 300 and 400MHz)

Schematic # 00-992865-00 Part # 00-992862-00

### Shim DAC/Drive

Schematic # 00-992869-00 Part # 00-992866-01

### Probe, Q-Tune Detector

Schematic # 01-905563-00 Part # 01-905560-01

### BroadBand Preamp LB 200, 300 and 400 MHz

Schematic # 87-195811-00 Part # 00-991934-00 (-01 for CP/MAS)

### Lock Pre/amp

200 MHz schematic # 87-177761-00 Part # 00-966488-01  
300 MHz schematic # 87-177776-00 Part # 00-966752-01  
400 MHz schematic # 01-903485-00 Part # 01-903482-00

### High-Band PreAmp

200 MHz schematic # 01-907837-00 Part # 01-907834-01

300 MHz schematic # 01-907837-00 Part # 01-907834-02

400 MHz schematic # 01-907837-00 Part # 01-907834-03

### **Auto Liq/Sol Spinner Board**

Schematic # 01-909863-00 part # 01-909860-01 (-02 for CP/MAS)

### **System Power Supply**

Schematic # 01-901394-00 Part # 01-901381-01

### **Hi-Band Amplifier**

75W 188 MHz – 401 MHz part #: 00-993934-00

35W 185 MHz – 301 MHz part #: 00-993936-00

### **Low-Band Amplifier**

125W 20 – 162 MHz part #: 00-993935-00

35W 20-125 MHz part #: 01-902429-00

### **Dual Channel RF amp (300 and 400 Only)**

Part # 00-993200-00

50 – 300 W and 6 – 500 MHz is for CP/MAS console.

### **Pulse Field Gradient Amp**

Performa I PFG: part # 01-901829-02 L600 +/- 3A full scale

Performa II PFG part # 00-992325-00 L700 +/- 10A full scale

### **PFG Interface Board**

Schematic 87-195857-00 Part # 00-992542-00

### **VT Unit**

Part # 01-904189-00

-150C to 250C 80W