

### 3. Assemblies and Schematics

#### A. General

This section contains component layout drawings for all Assemblies and PC Board Assemblies, Interconnect Diagrams and Circuit Schematics within the ATC-601-2.

#### B. How To Use Schematics

To trace coaxial cable conductors from one schematic to another, follow the procedure outlined in para 2-2-3B(1). To trace conductors for multiple pin connectors, follow the procedure outlined in para 2-2-3B(2).

##### (1) Coaxial Cables

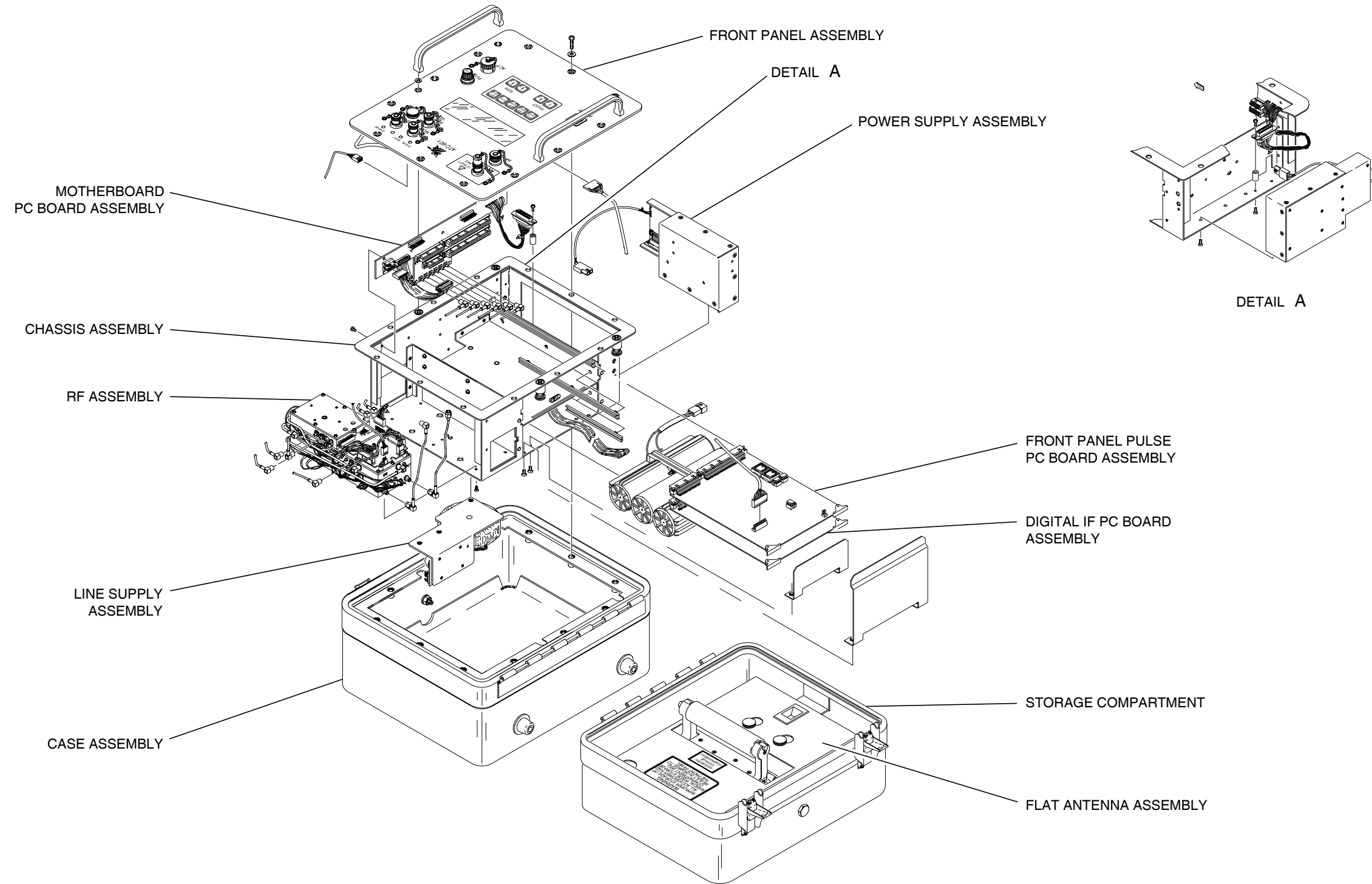
STEP	PROCEDURE
1.	Locate desired assembly on Interconnect Diagram.
2.	Locate desired coaxial cable on Interconnect Diagram. <b>NOTE:</b> Connectors are identified by reference designators.
3.	Follow coaxial cable on Interconnect Diagram to locate opposite end of conductor. Note coaxial cable reference designator and destination.
4.	Locate schematic of desired assembly in para 2-2-3C.
5.	Locate reference designator of coaxial cable and continue tracing circuit.

##### (2) Multiple Pin Connectors

STEP	PROCEDURE
1.	Locate desired module on Interconnect Diagram.
2.	Locate desired assembly multiple pin connector on Interconnect Diagram. <b>NOTE:</b> Connectors are identified by reference designators.
3.	Note reference designator of mating connector. Note assembly or wire harness, connector is mounted on or grouped with.
4.	Locate schematic of desired assembly in para 2-2-3C.
5.	Locate reference designator of multiple pin connector and corresponding pin number. Continue tracing circuit.

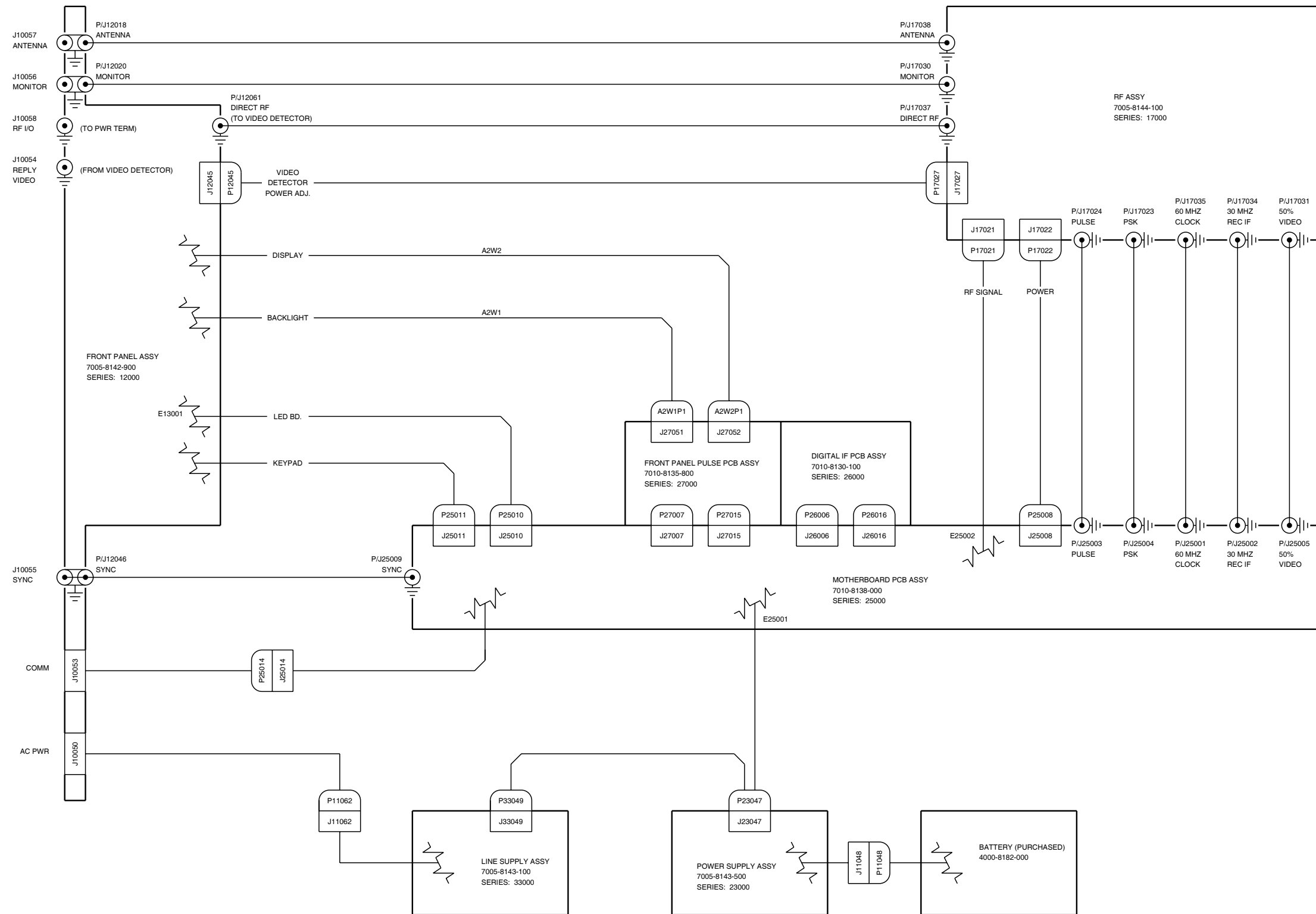
C. Alphabetical Index of Assemblies and Schematics

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Composite Assembly  
(7003-8145-300-E)

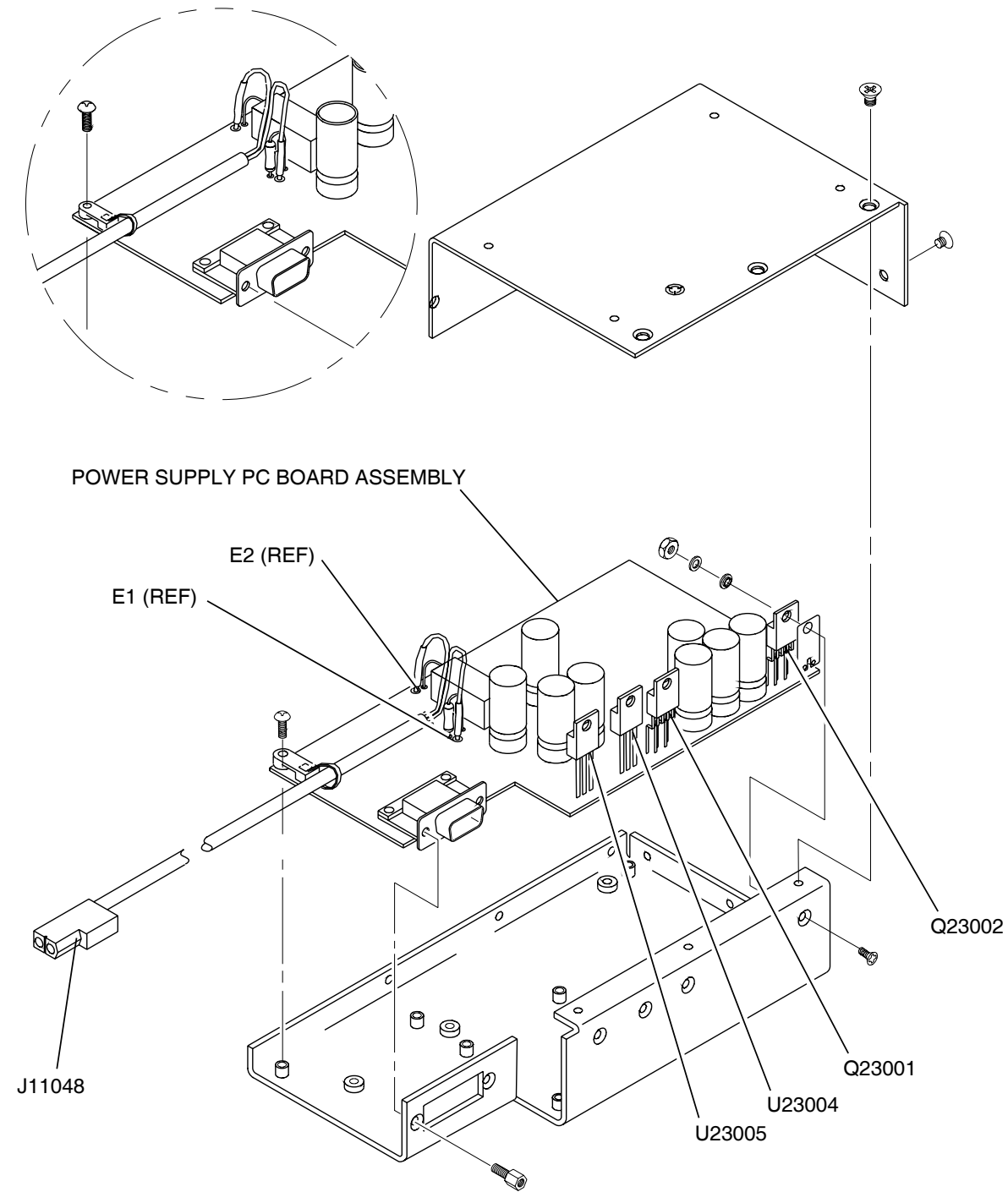
8120001M  
Composite Assembly (Sheet 1 of 2)  
Figure 30



Composite Assembly Interconnect Diagram  
(0000-8145-300-C)

Composite Assembly (Sheet 2 of 2)  
Figure 30

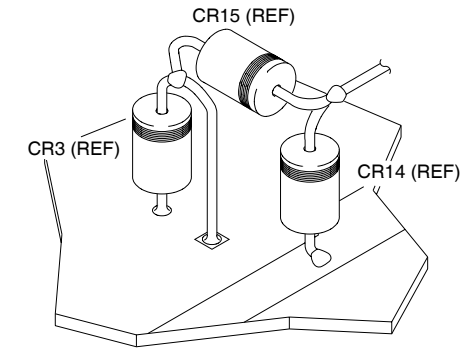
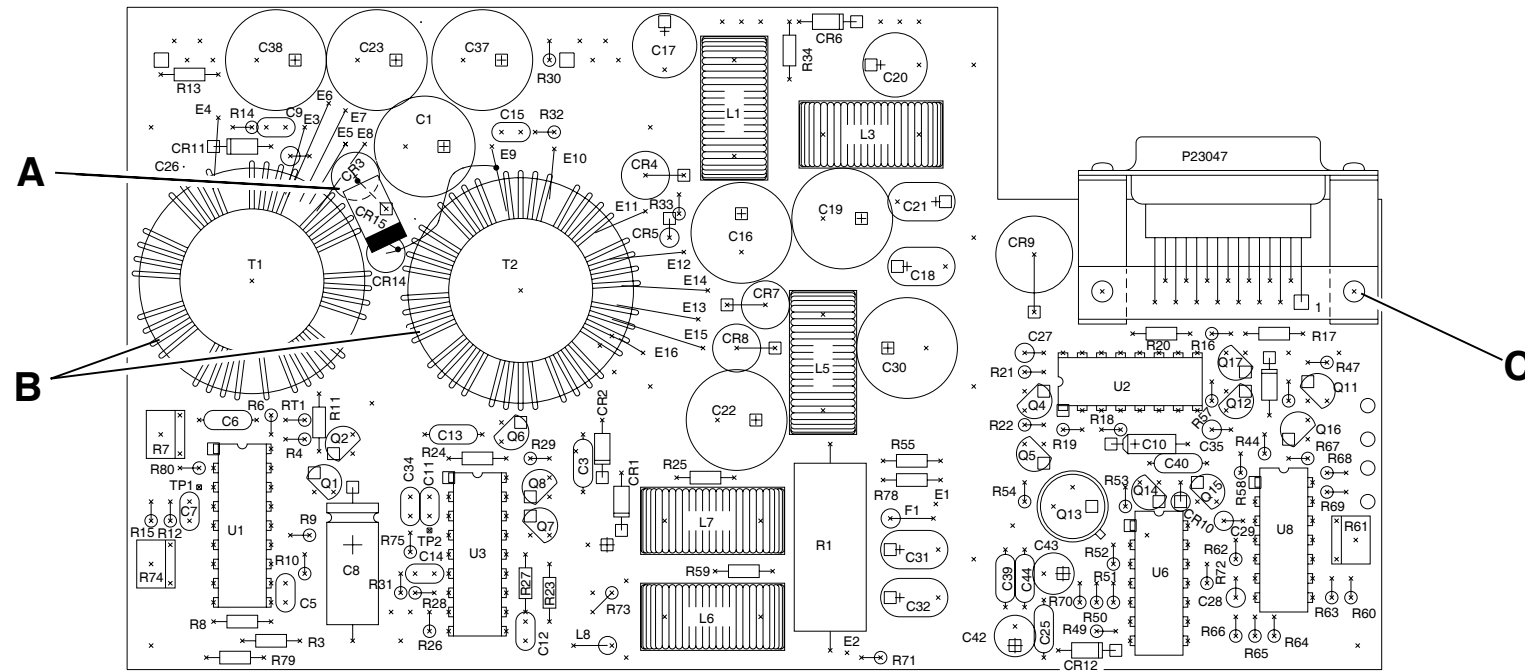
8145300E



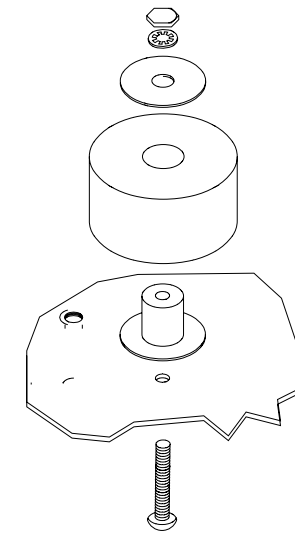
81000-2

Power Supply Assembly  
(7005-8143-500-E)

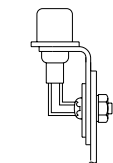
Power Supply Assembly (Sheet 1 of 4)  
Figure 31



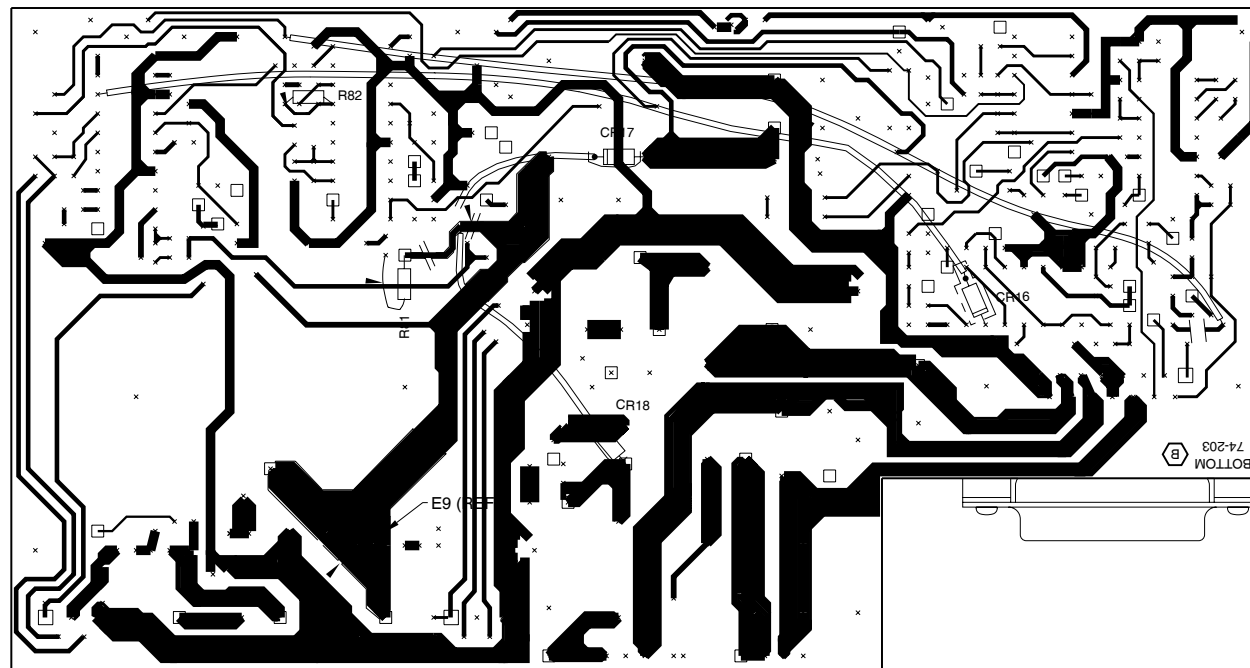
DETAIL A



DETAIL B



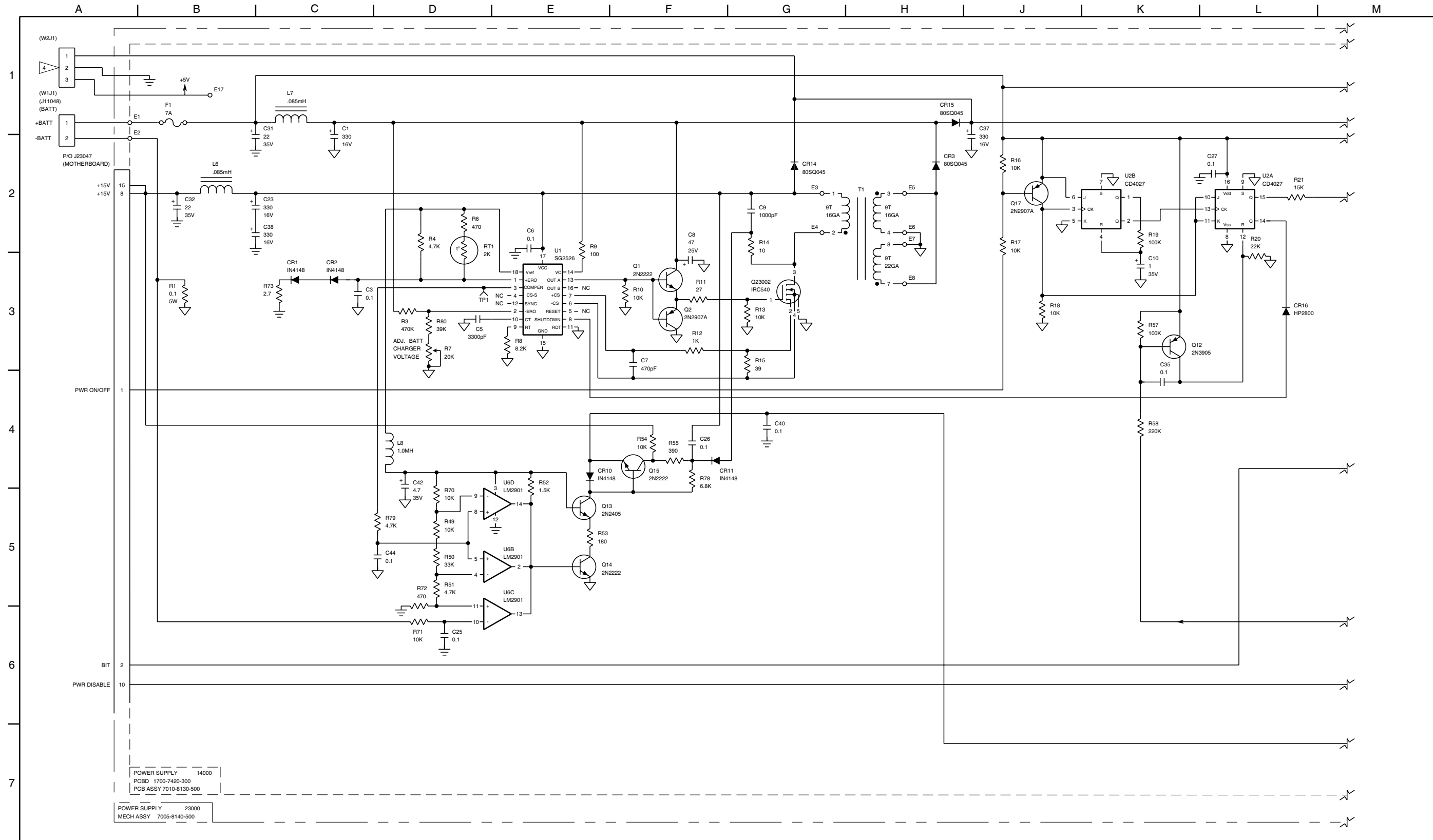
DETAIL C



Power Supply PC Board Assembly  
(7010-8130-500-E)

Power Supply Assembly (Sheet 2 of 4)  
Figure 31

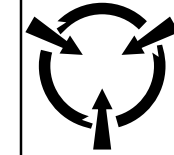
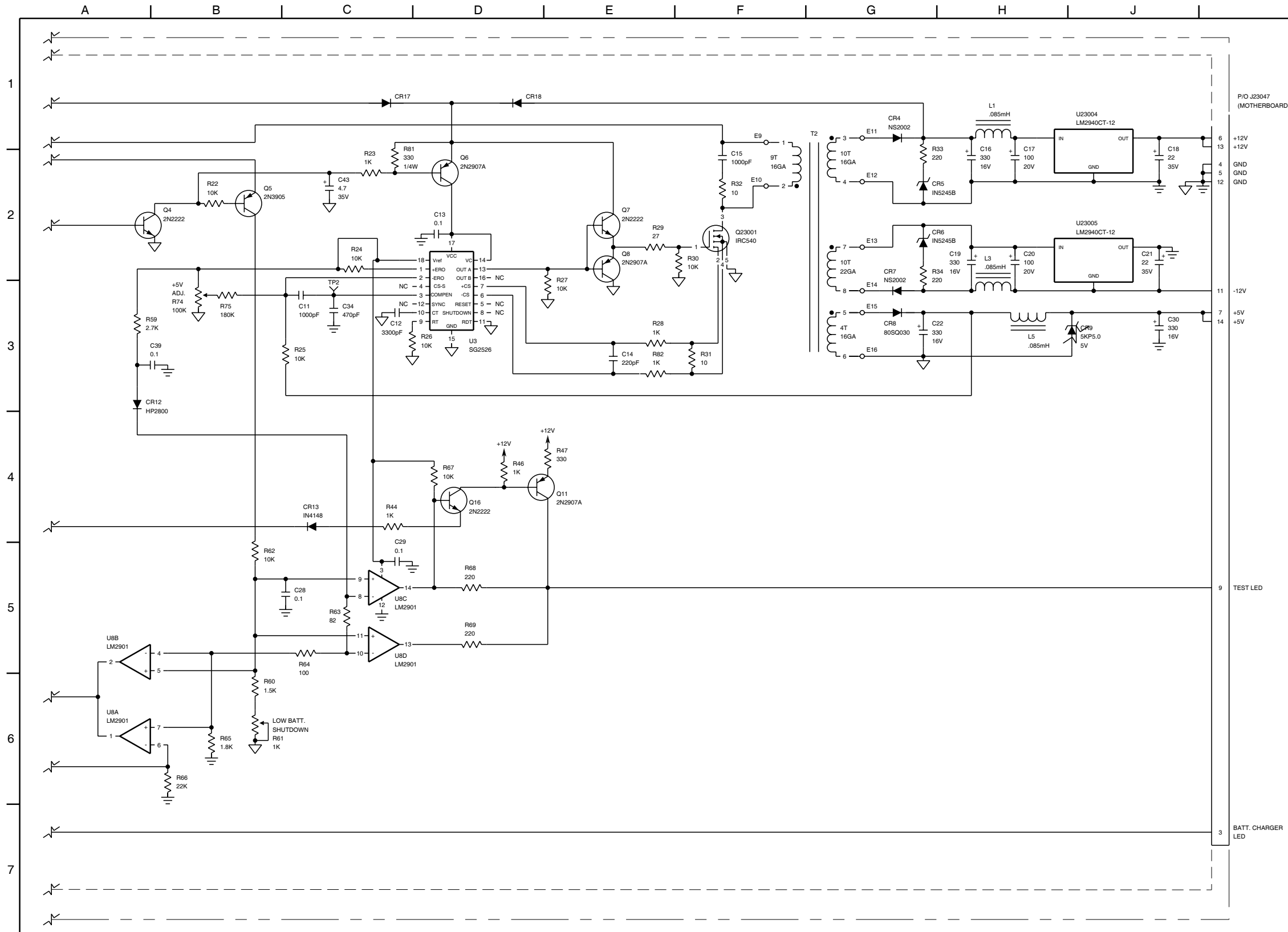
81003-2



Power Supply Assembly Circuit Schematic  
(0000-8140-500-E)

Power Supply Assembly (Sheet 3 of 4)  
Figure 31

8140501S-2



**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

**STANDARDS:**

(UNLESS OTHERWISE NOTED)

1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES.

THIS SCHEMATIC CARRIES SERIES:

- 7010-8130-500 SERIES: 14000
- 7005-8140-500 SERIES: 23000

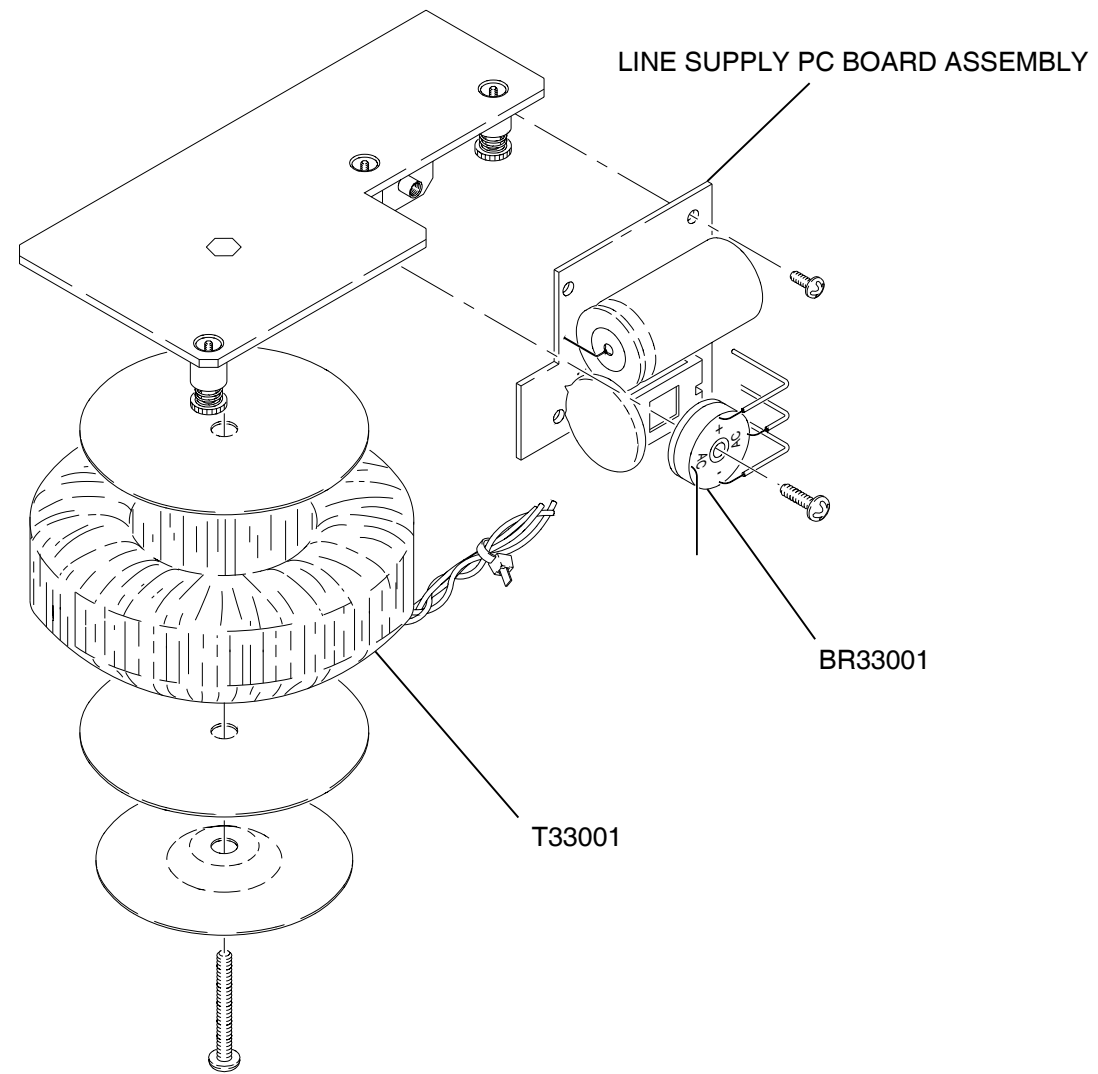
2. ALL RESISTORS ARE 1/8 W, 5 % TOLERANCE.
3. ALL RESISTANCE IS EXPRESSED IN OHMS.
4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.

Power Supply Assembly Circuit Schematic  
(0000-8140-500-E)

Power Supply Assembly (Sheet 4 of 4)  
Figure 31

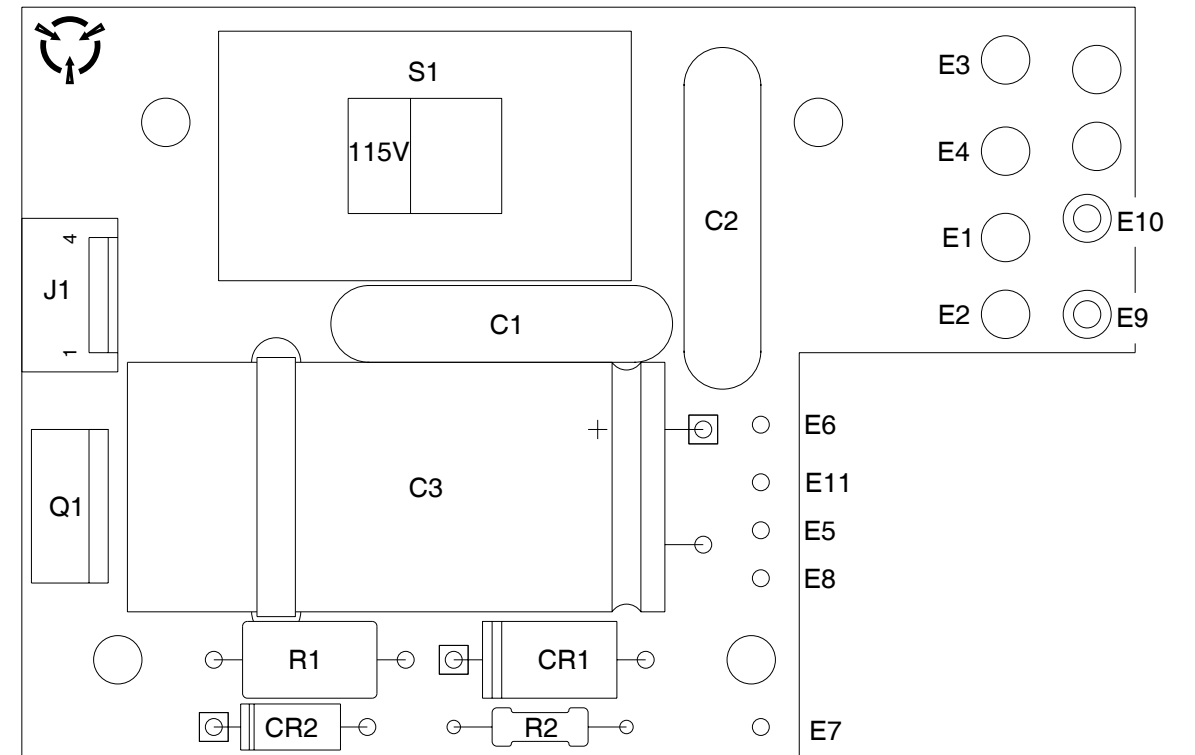
81025-2





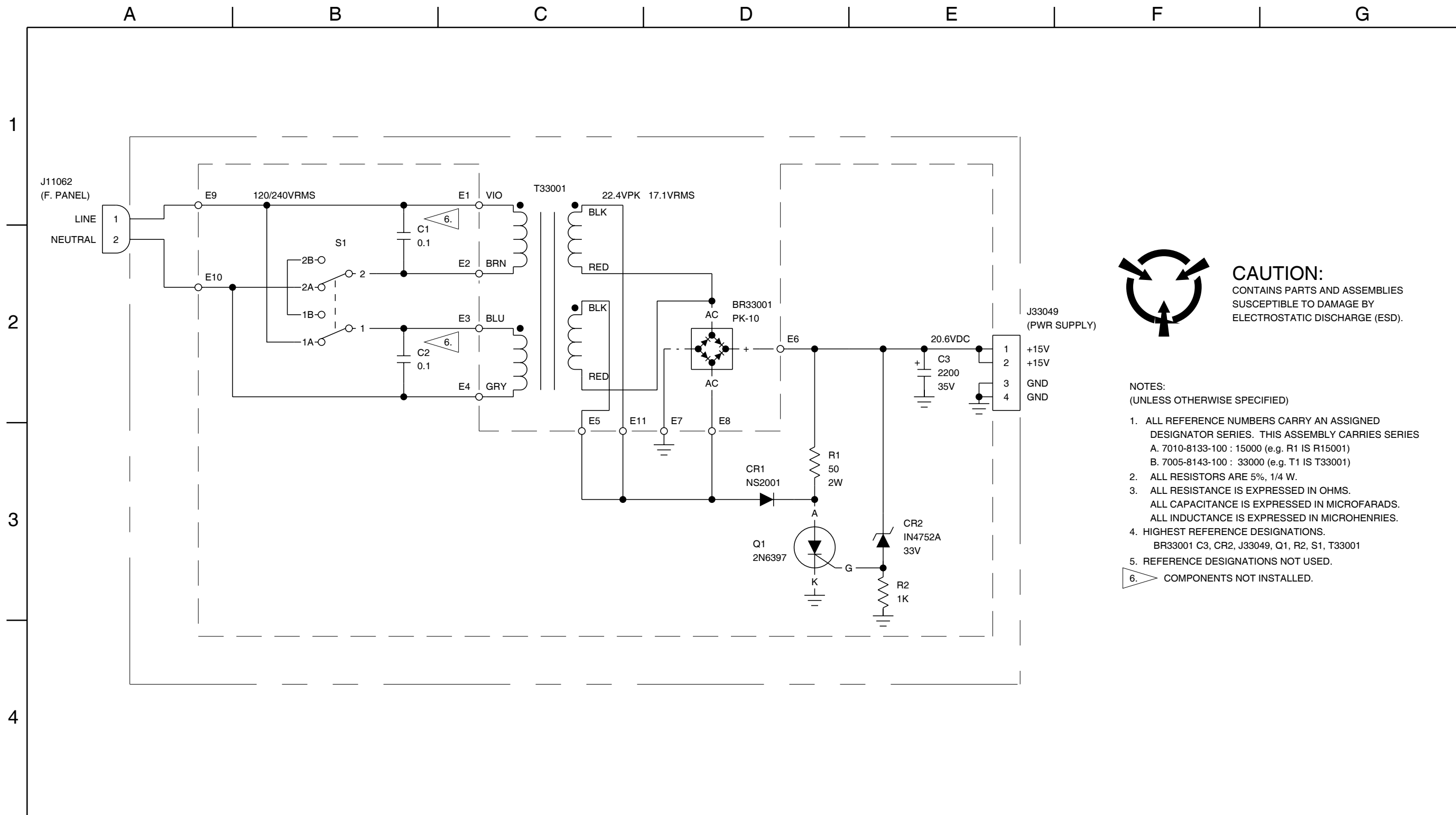
Line Supply Assembly  
(7005-8143-100-E, E1, F)

8143100M



Line Supply PC Board Assembly  
(7010-8133-100-A)

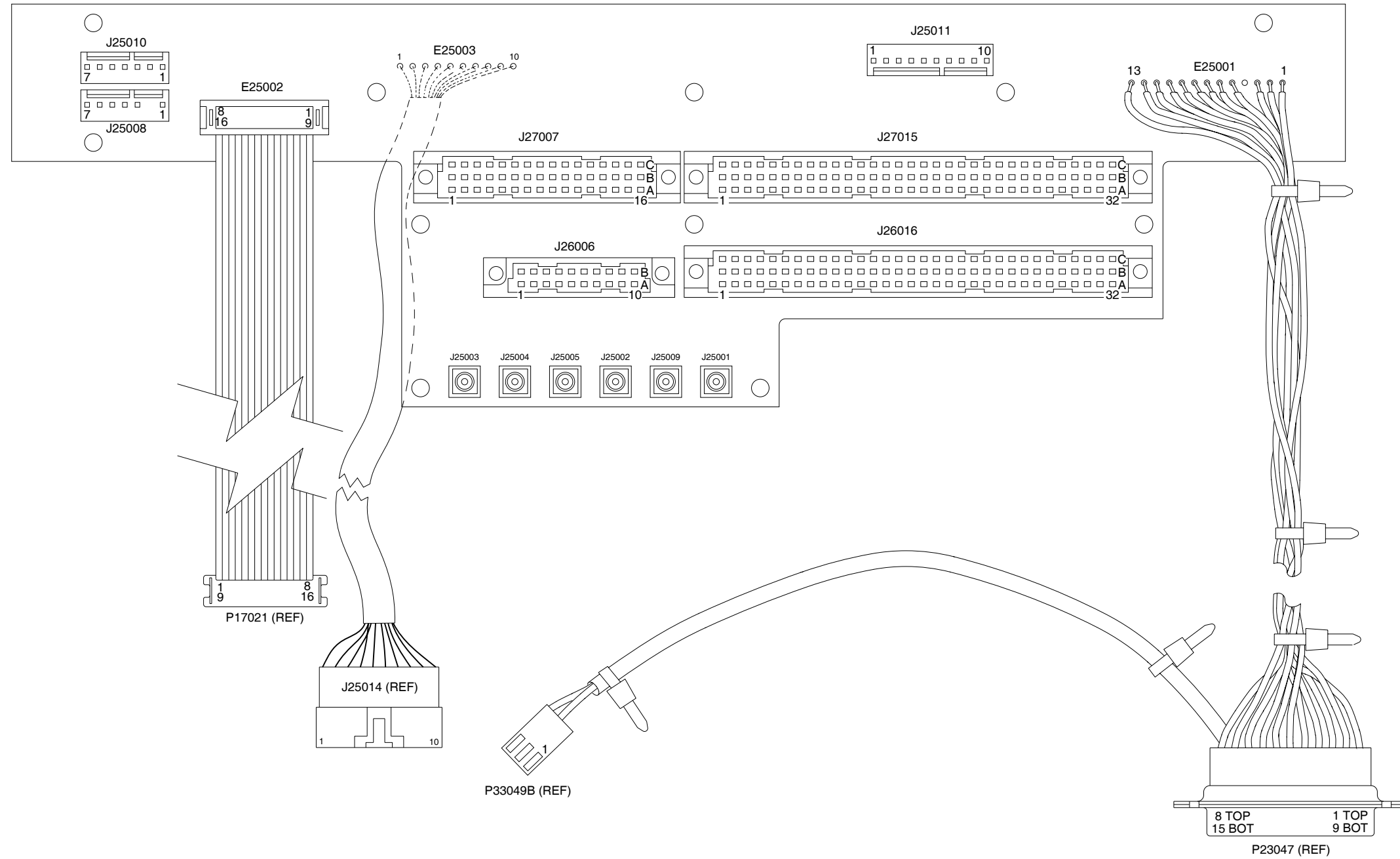
8133100P



Line Supply Assembly Circuit Schematic  
(0000-8143-100-B2)

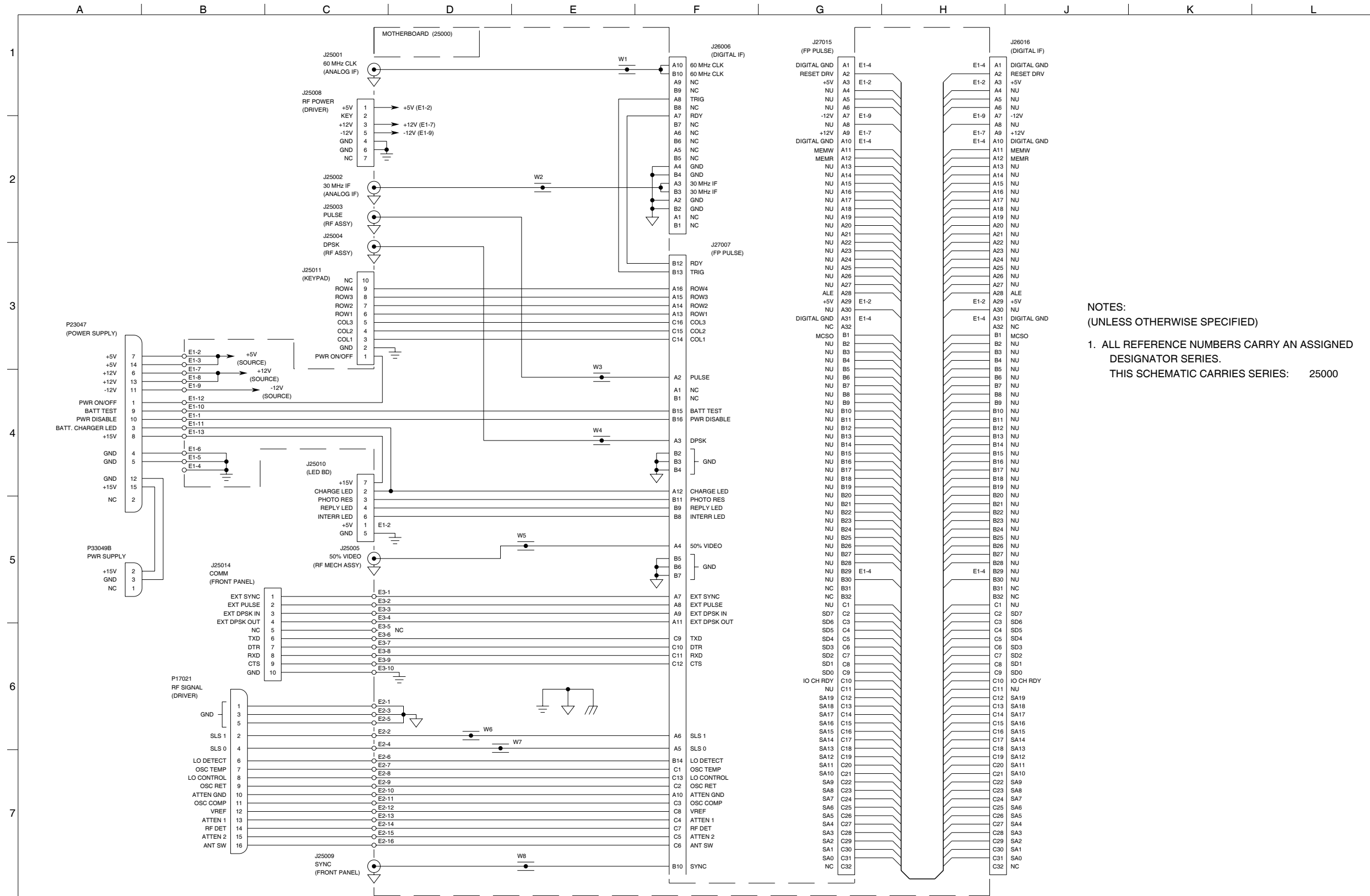
Line Supply Assembly (Sheet 2 of 2)  
Figure 32

811001-2



Motherboard PC Board Assembly  
(7010-8138-000-B)

8134000P  
Motherboard PC Board Assembly (Sheet 1 of 2)  
Figure 33

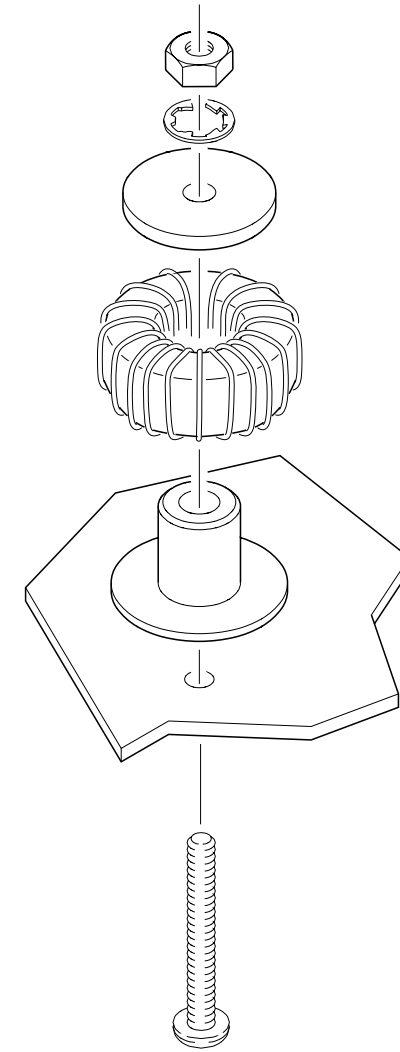
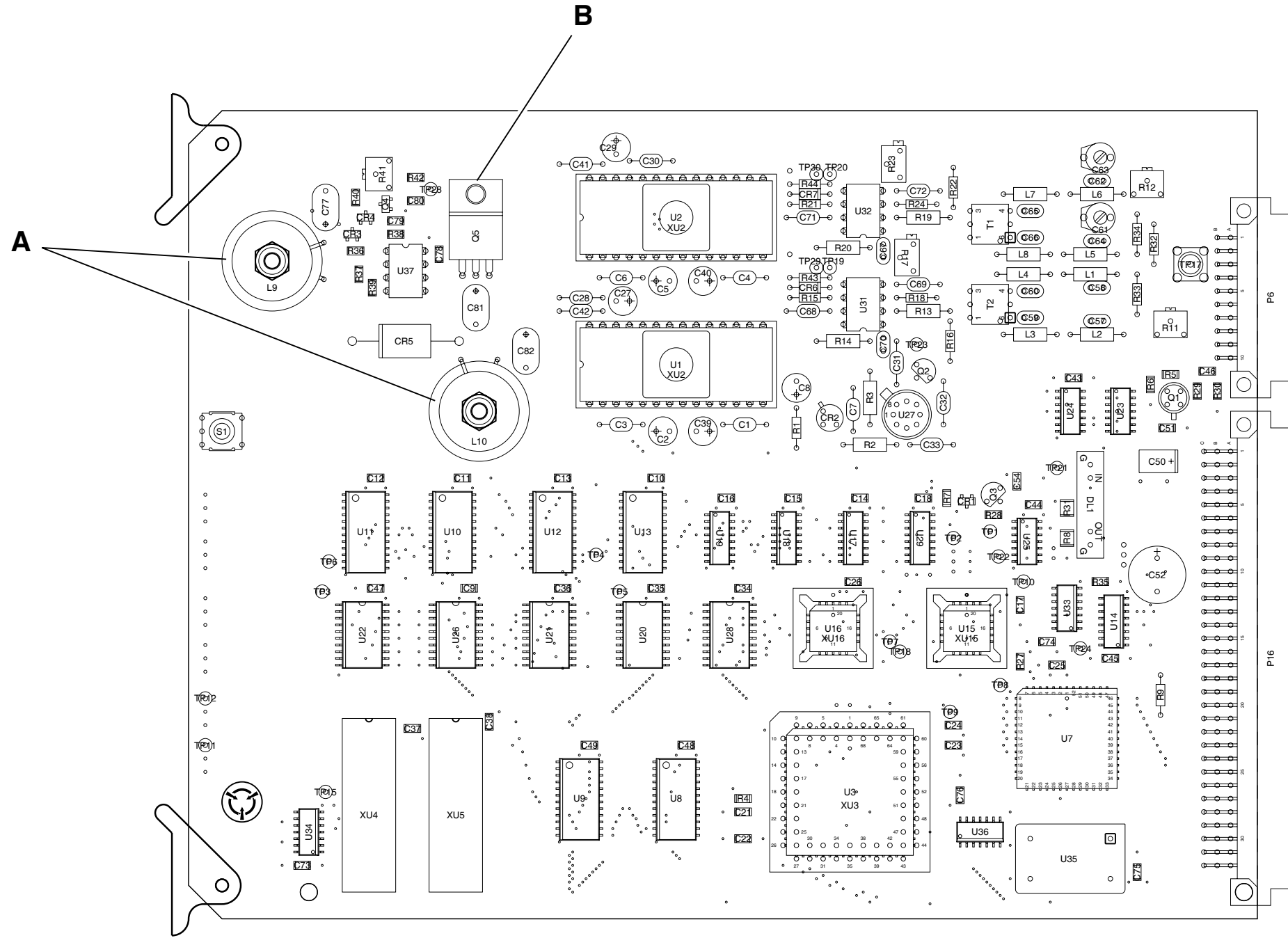


NOTES:  
(UNLESS OTHERWISE SPECIFIED)  
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES.  
THIS SCHEMATIC CARRIES SERIES: 25000

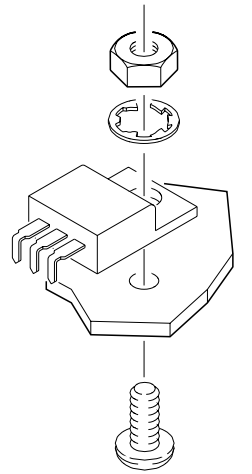
Motherboard PC Board Assembly Circuit Schematic  
(0000-8130-000-B)

Motherboard PC Board Assembly (Sheet 2 of 2)  
Figure 33

8130000S



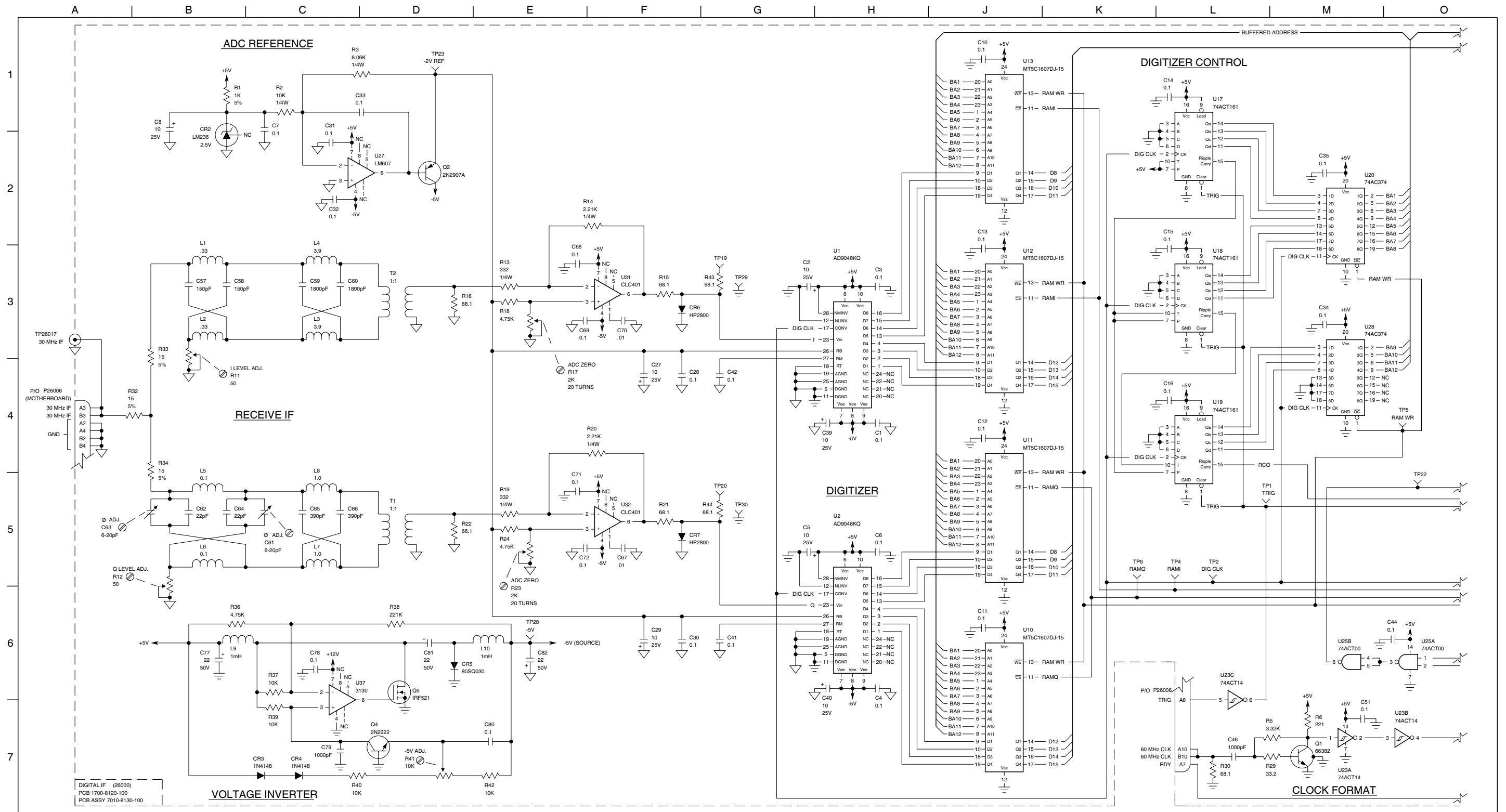
**DETAIL A**



**DETAIL B**

Digital IF PC Board Assembly  
(7010-8130-100-F)

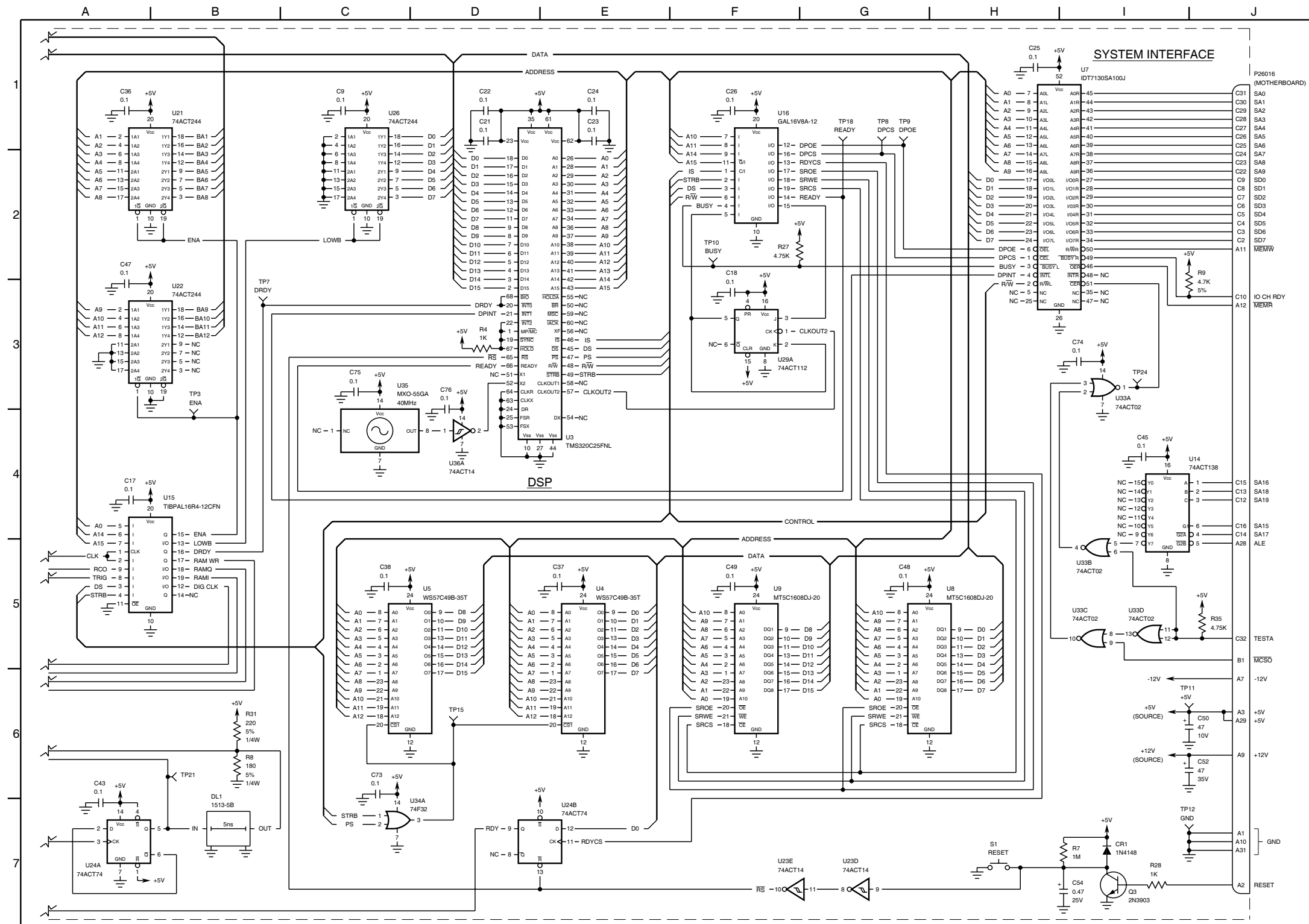
Digital IF PC Board Assembly (Sheet 1 of 3)  
Figure 34



Digital IF PC Board Assembly Circuit Schematic  
(0000-8130-100-D1)

Digital IF PC Board Assembly (Sheet 2 of 3)  
Figure 34

8530101S



**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

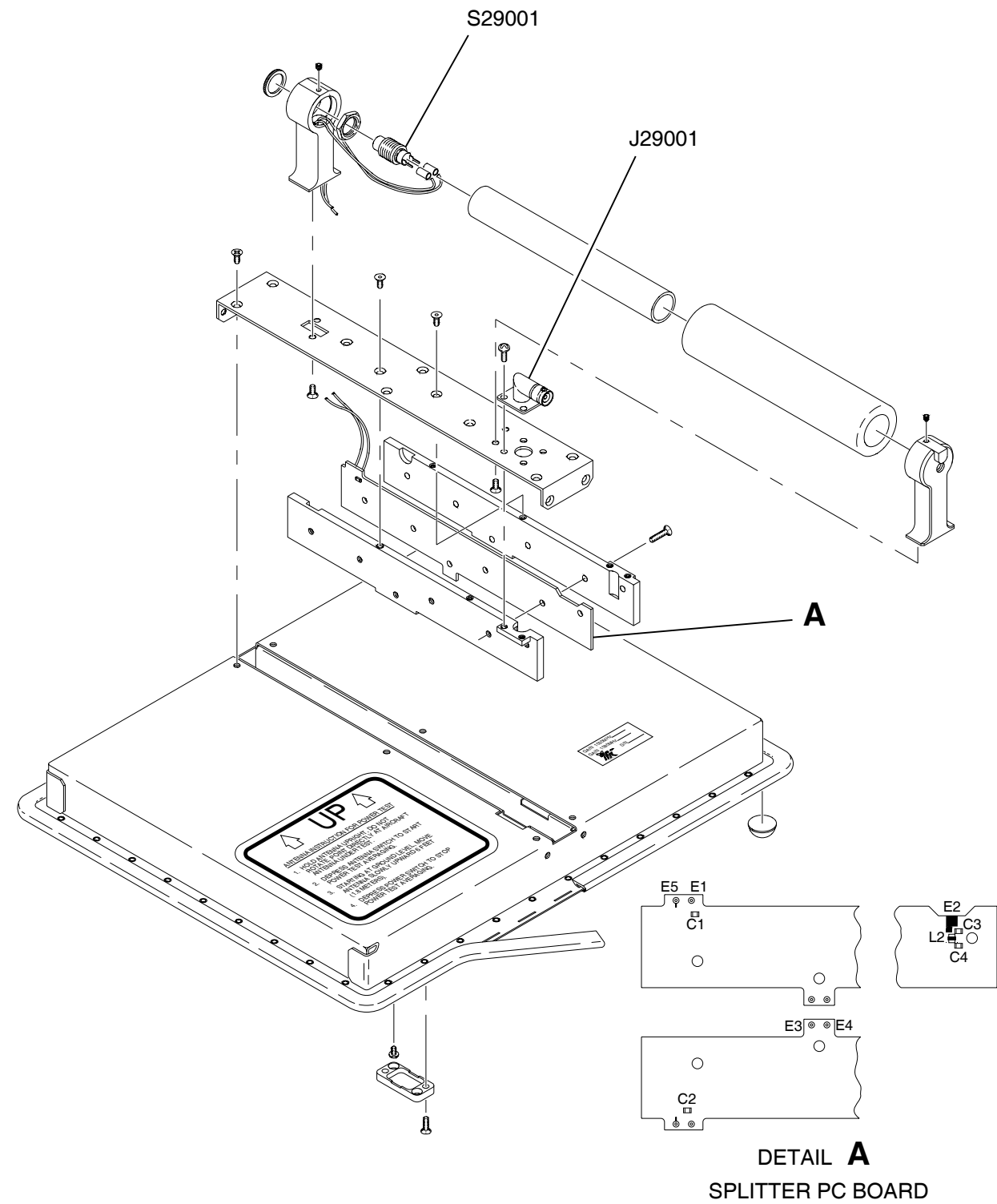
NOTES:  
(UNLESS OTHERWISE SPECIFIED)

1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES: 7010-8130-100 26000 (e.g., R1 IS R26001)
  2. ALL RESISTORS ARE 1/8W, 1% TOLERANCE.
  3. ALL RESISTANCE IS EXPRESSED IN OHMS.
  4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
  5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
6. REV E AND ON ONLY.

Digital IF PC Board Assembly Circuit Schematic  
(0000-8130-100-E)

Digital IF PC Board Assembly (Sheet 3 of 3)  
Figure 34

8530102S

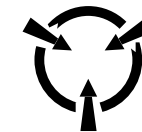
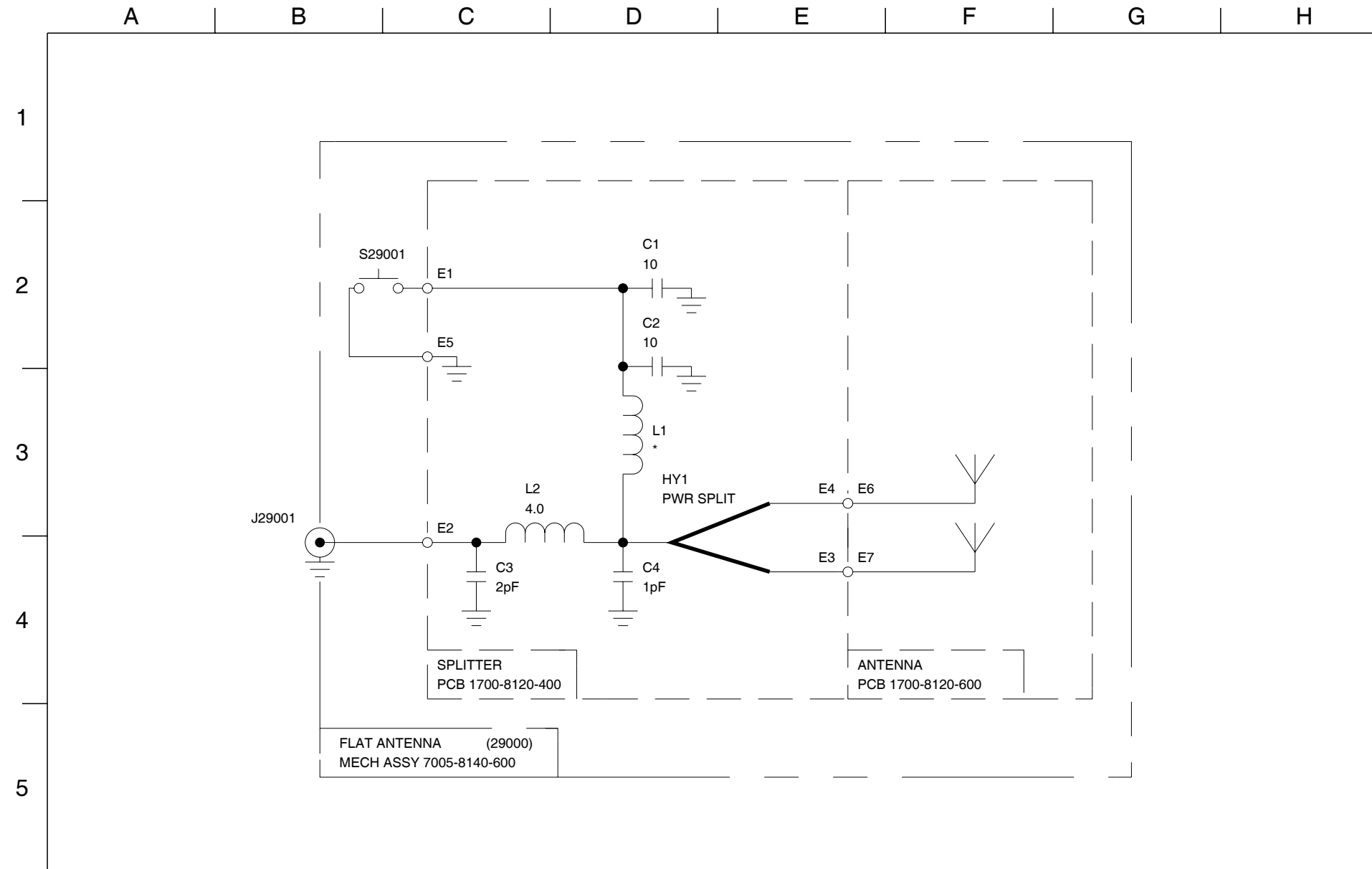


Flat Antenna Assembly  
(7005-8140-600-H)

Flat Antenna Assembly (Sheet 1 of 2)  
Figure 35

8140600M





**CAUTION:**

CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

**NOTES:**

(UNLESS OTHERWISE SPECIFIED)

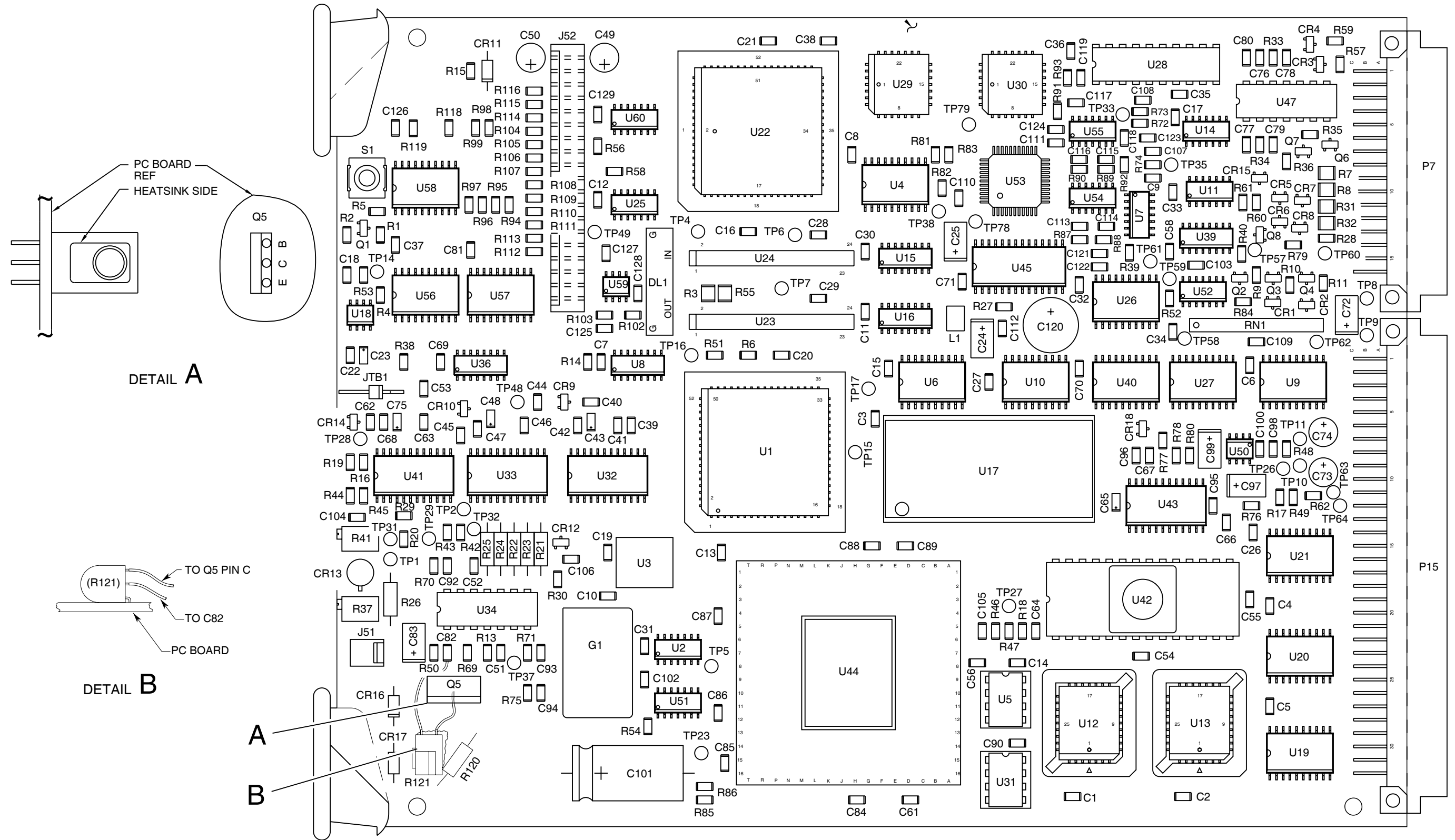
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:  
A. 7005-8140-600 : 29000 (e.g. C1 IS C29001)
2. ALL CAPACITANCE IS EXPRESSED IN PICOFARADS.
3. ALL INDUCTANCE IS EXPRESSED IN NANOHENRIES.

\* - INDICATES TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS.

8140600S

Flat Antenna Assembly Circuit Schematic  
(0000-8140-600-D1)

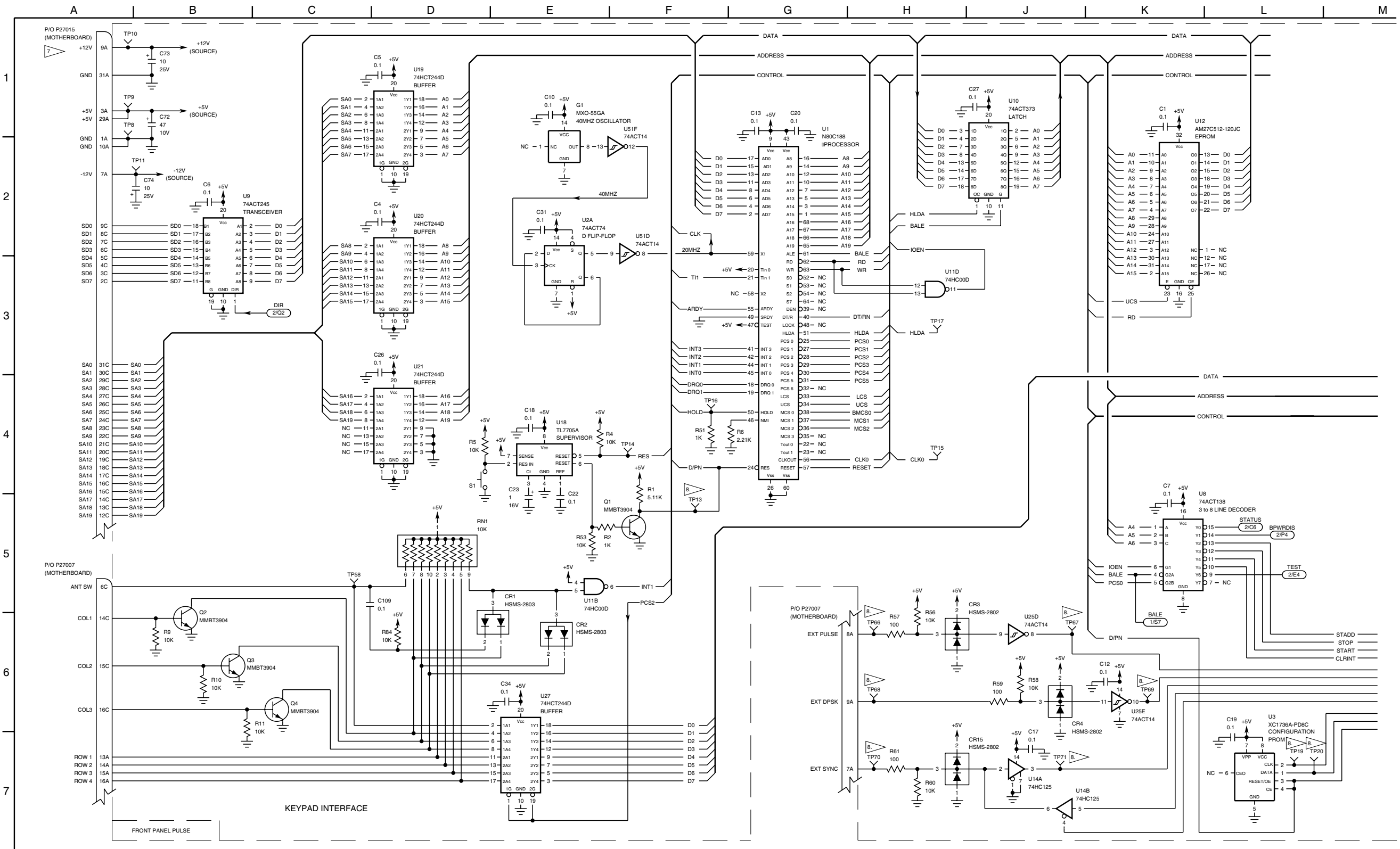
Flat Antenna (Sheet 2 of 2)  
Figure 35



Front Panel Pulse PC Board Assembly  
(7010-8132-800-B)

Front Panel Pulse PC Board Assembly (Sheet 1 of 12)  
Figure 36

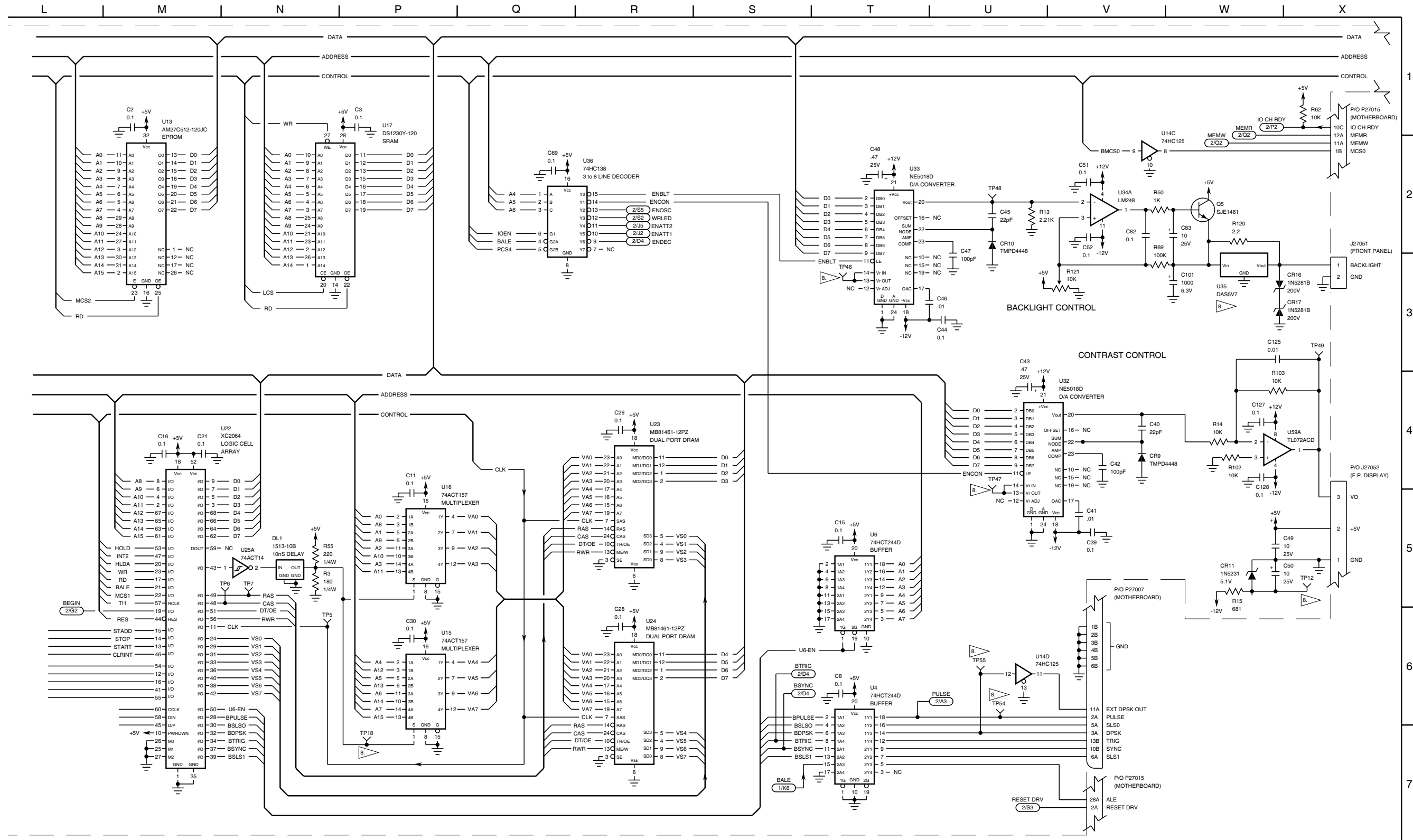
8132800A



Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8132-800-A)

Front Panel Pulse PC Board Assembly  
(Sheet 2 of 12)  
Figure 36

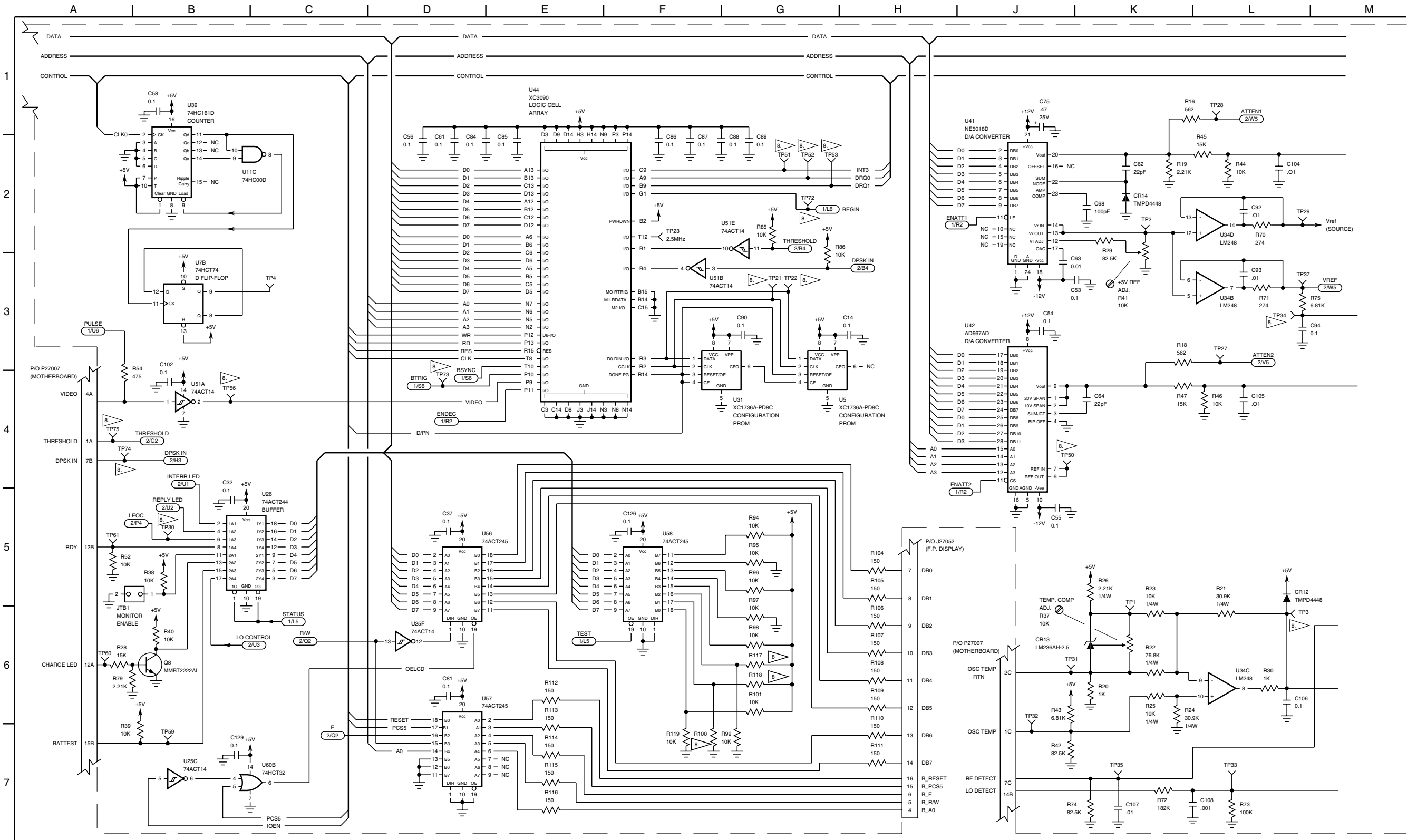
081M-001



081M-002

Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8132-800-A)

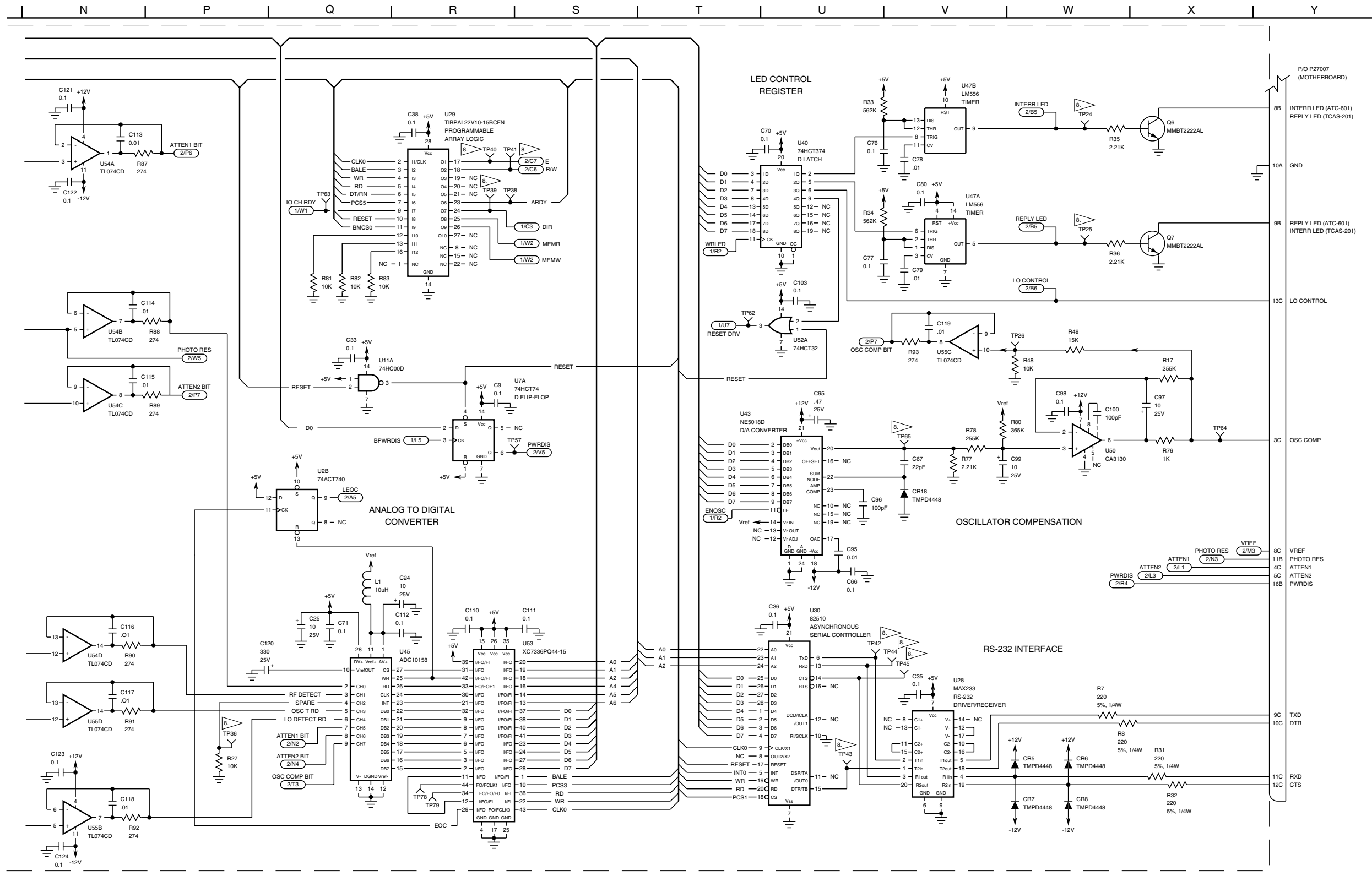
Front Panel Pulse PC Board Assembly (Sheet 3 of 12)  
Figure 36



Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8132-800-B)

Front Panel Pulse PC Board Assembly  
(Sheet 4 of 12)  
Figure 36

081M-003



**CAUTION:**  
CONTAINS PARTS AND ASSYS  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE  
(ESD).

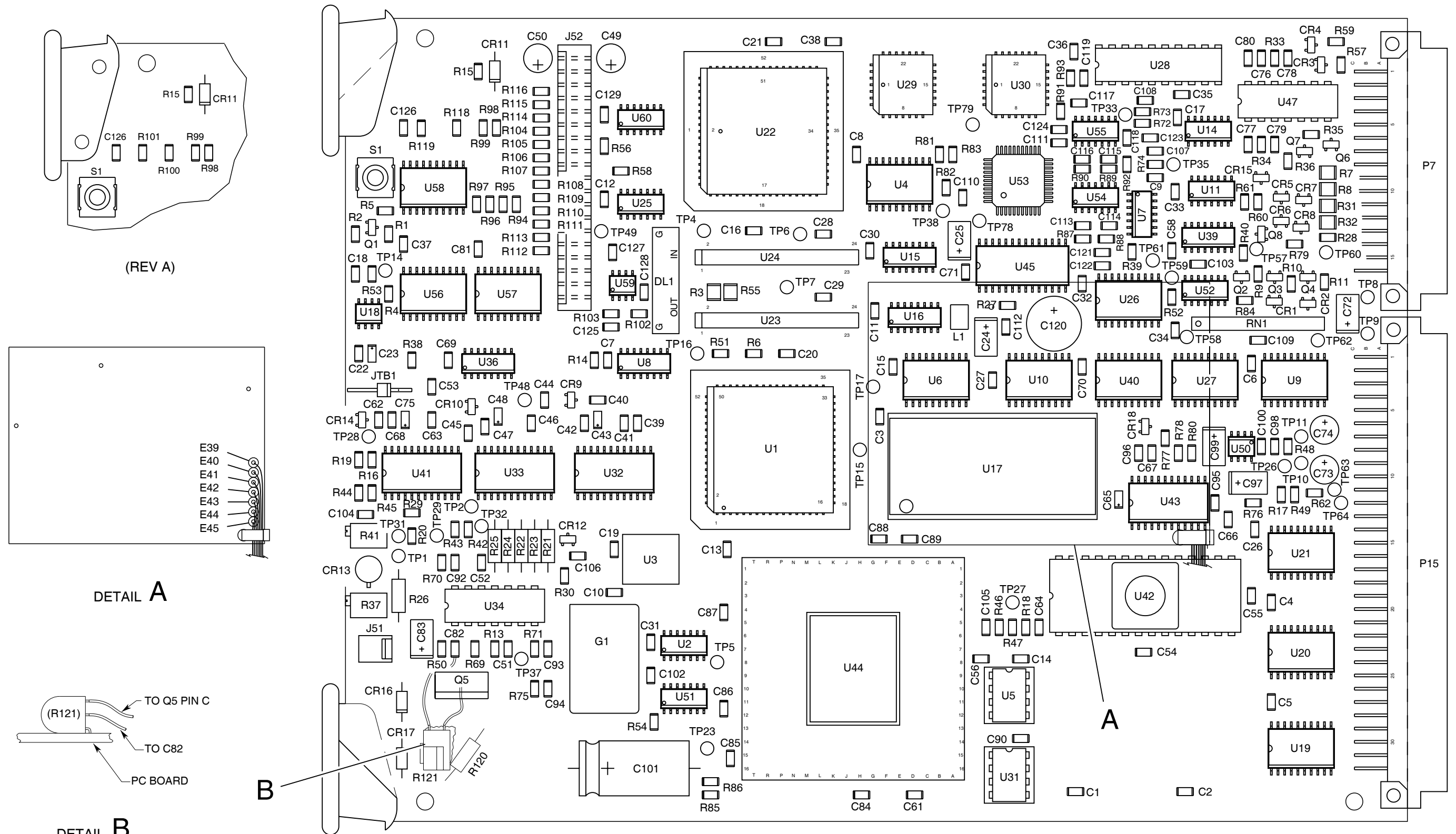
NOTES:  
(UNLESS OTHERWISE STATED)

1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES, REFER TO PRODUCT STRUCTURE AND SYSTEM INTERCONNECT.
  2. ALL RESISTORS ARE 1% TOLERANCE, 1/8 W.
  3. ALL RESISTANCE IS EXPRESSED IN OHMS.
  4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
  5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRYS.
  6. NOT USED
- PINS NOT USED ON P27015:  
 4A - 6A, 8A, 13A - 27A, 29A, 30A, 2B - 31B, 1C, 11C
- COMPONENTS NOT INSTALLED

Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8132-800-A)

Front Panel Pulse PC Board Assembly (Sheet 5 of 12)  
Figure 36

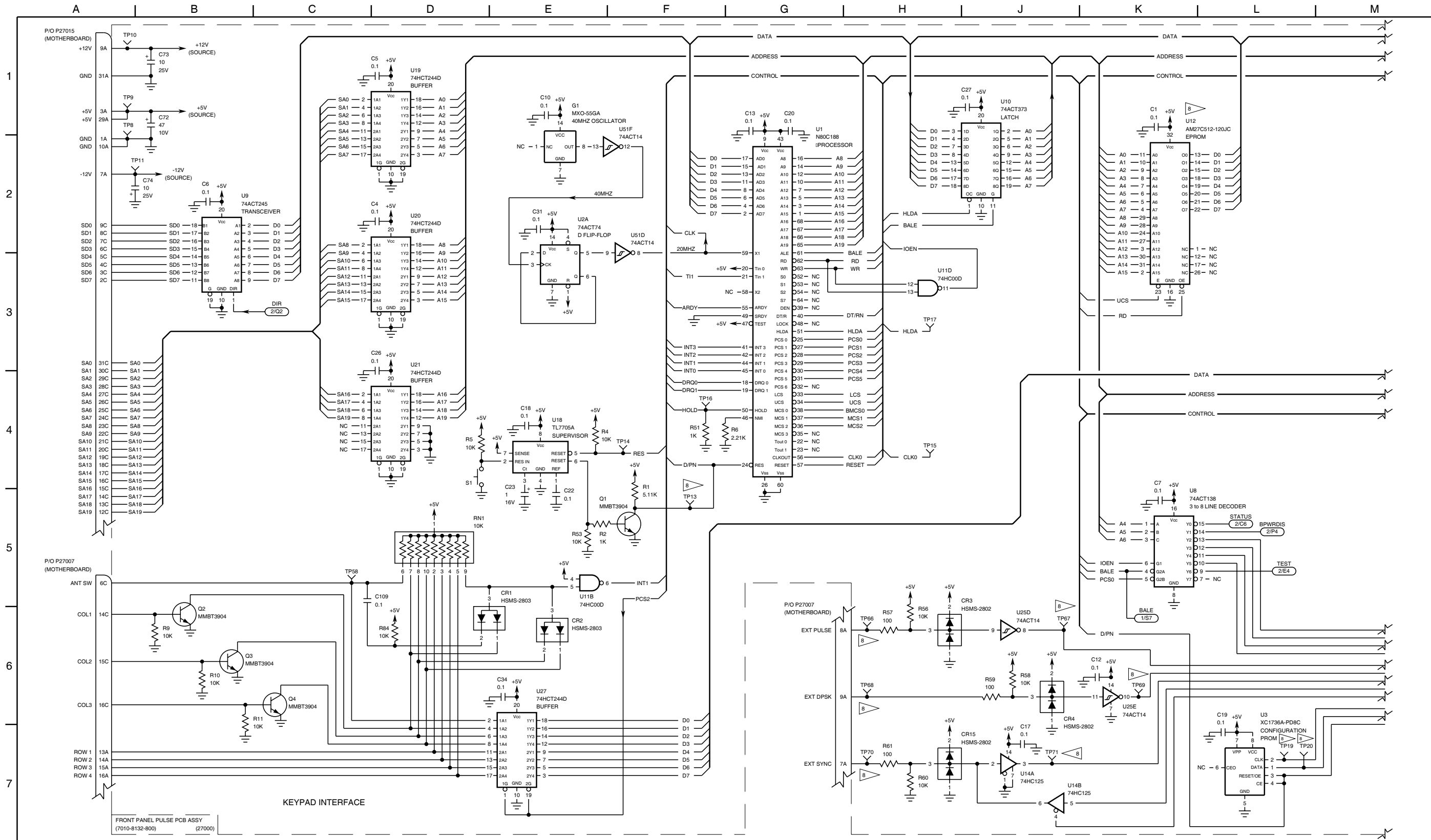
081M-004



Front Panel Pulse PC Board Assembly  
(7010-8135-800-B)

Front Panel Pulse PC Board Assembly  
(Sheet 6 of 12)  
Figure 36

8135800A

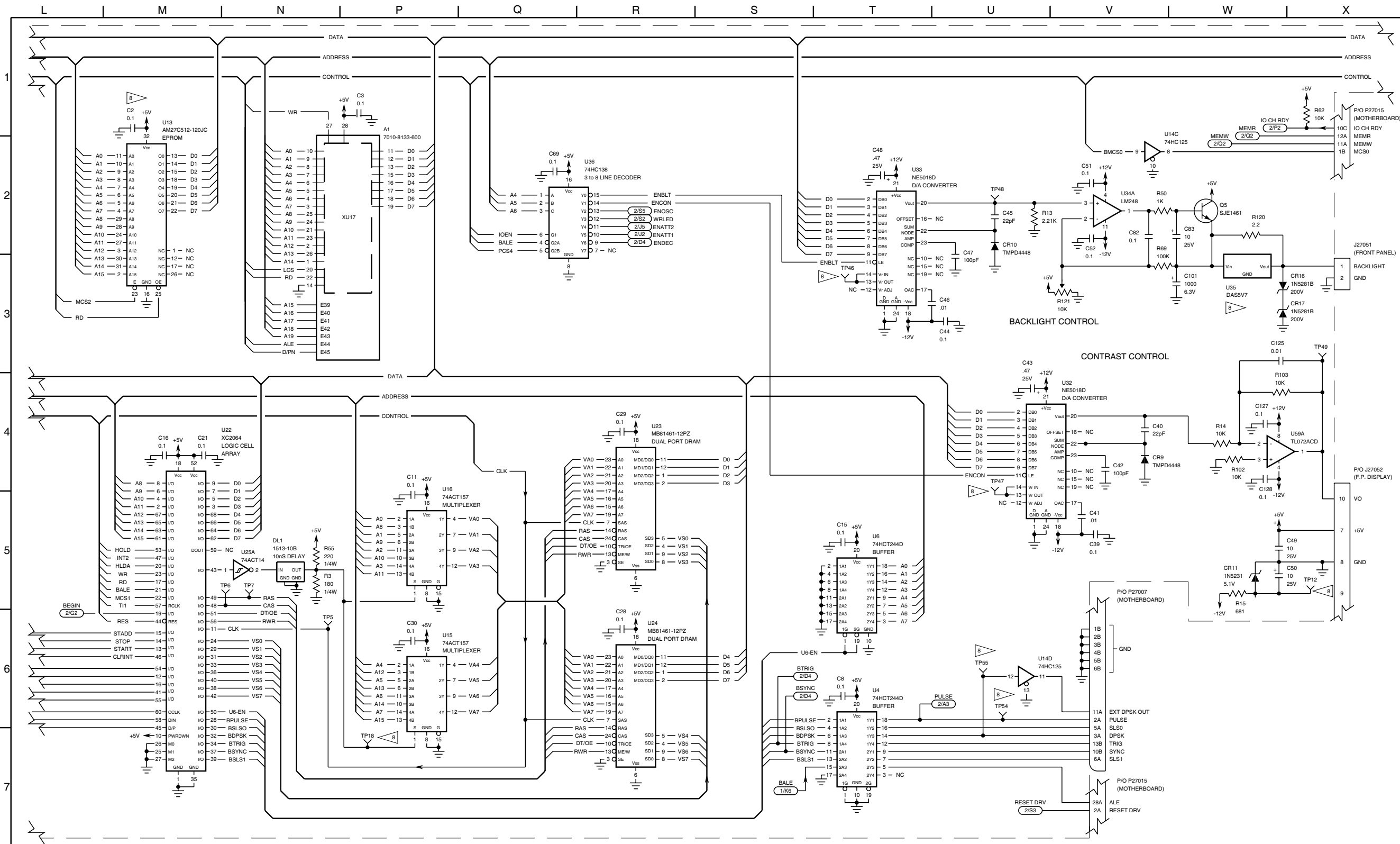


Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8135-800-B)

Front Panel Pulse PC Board Assembly (Sheet 7 of 12)  
Figure 36

081M-001

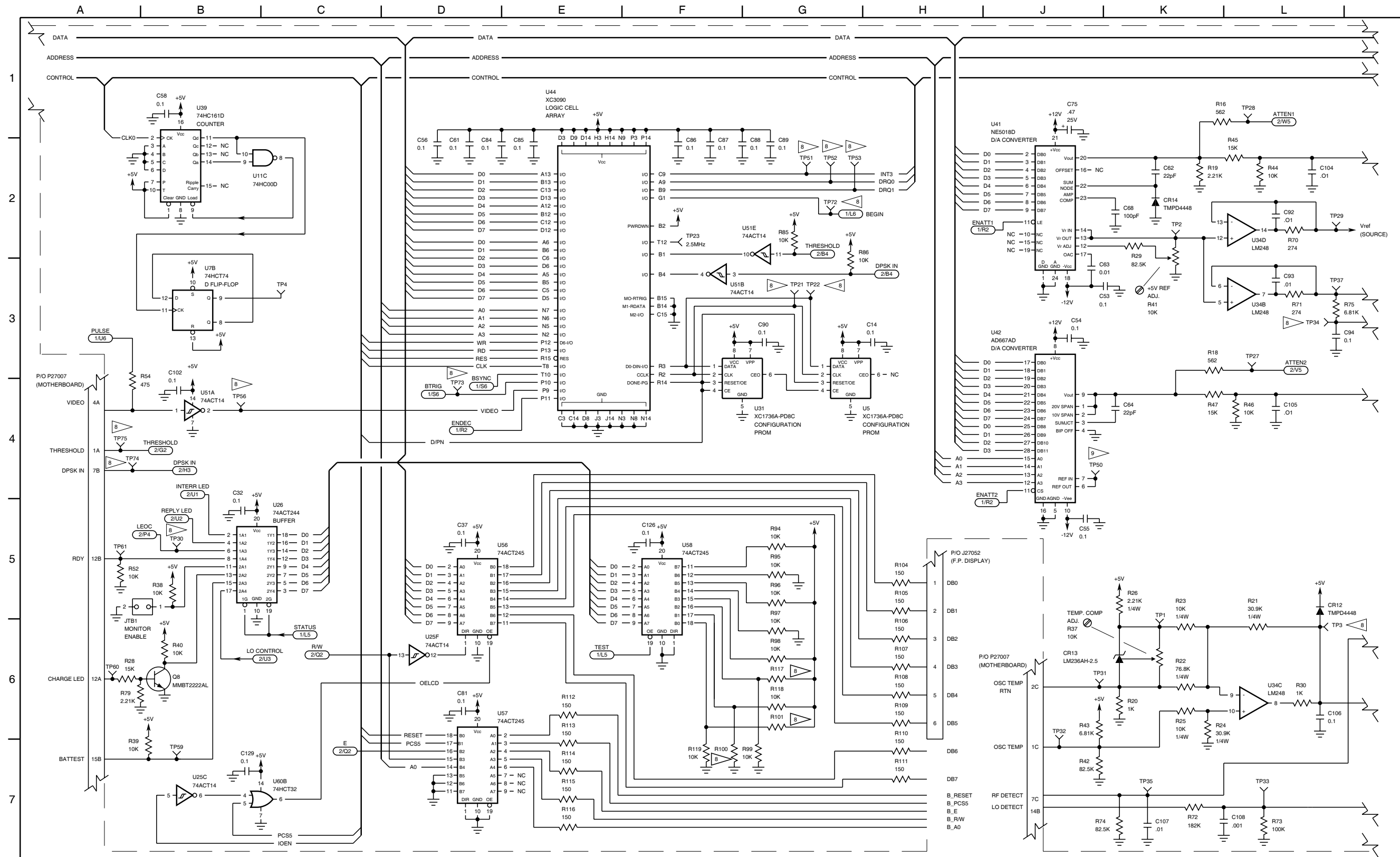




081M-002

Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8135-800-B)

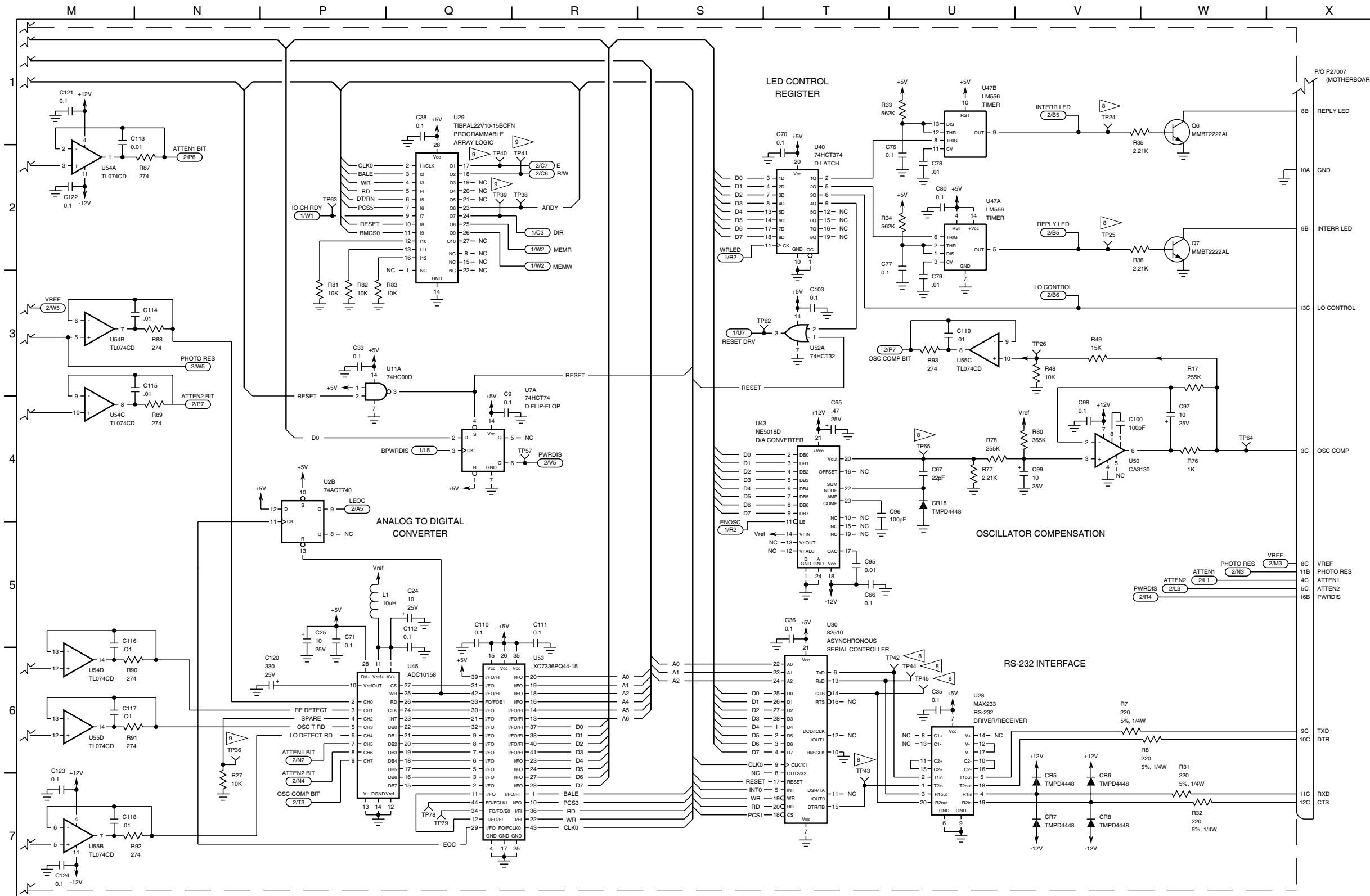
Front Panel Pulse PC Board Assembly  
(Sheet 8 of 12)  
Figure 36



Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8135-800-B)

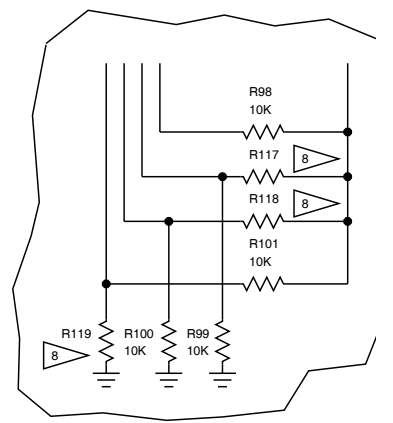
Front Panel Pulse PC Board Assembly (Sheet 9 of 12)  
Figure 36

081M-003



**CAUTION:**  
CONTAINS PARTS AND ASSEMBLY  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (E)

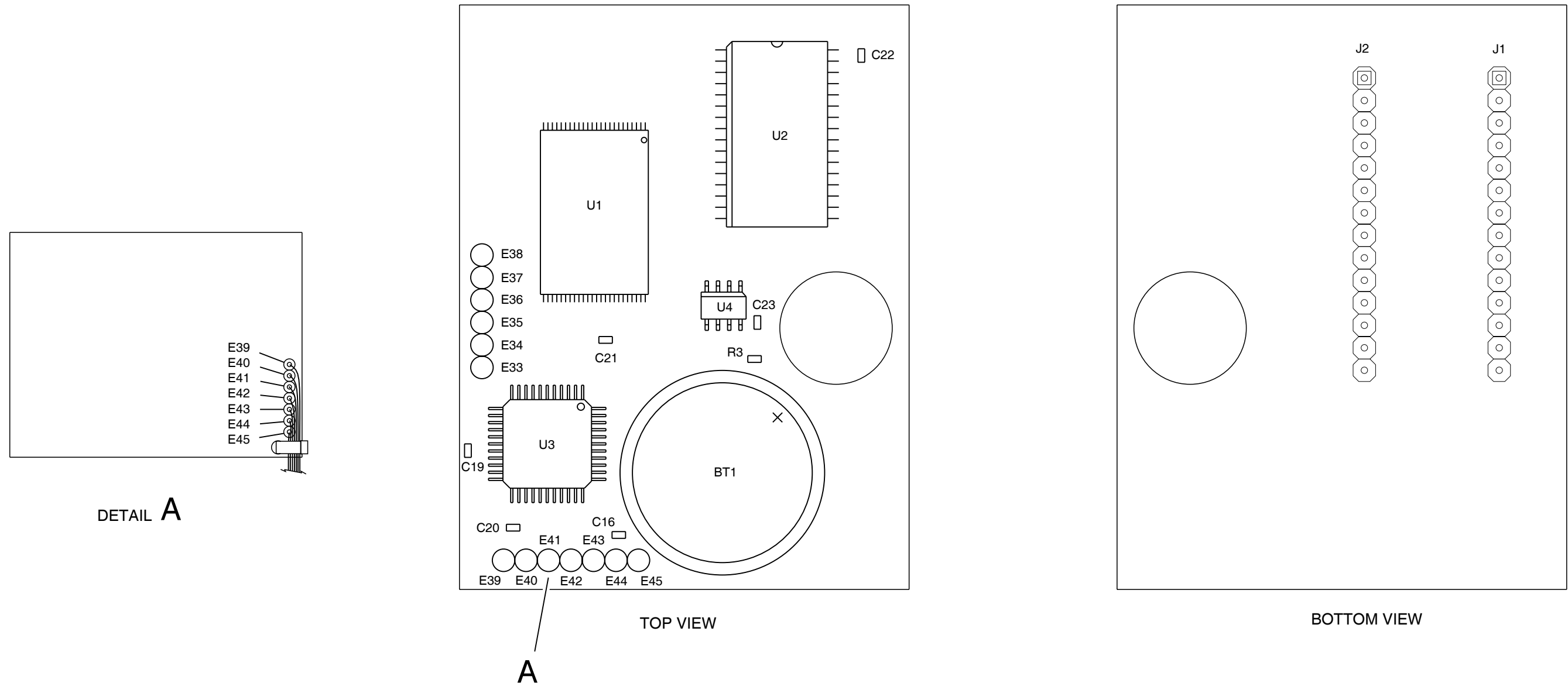
- NOTES:  
(UNLESS OTHERWISE SPECIFIED)
1. ALL REFERENCE NUMBERS CARRY AN AS DESIGNATOR SERIES. THIS SCHEMATIC SERIES:  
7010-8132-800 27000 (e.g., R1 IS R27001)
  2. ALL RESISTORS ARE 1/8 W, 1% TOLERANCE
  3. ALL RESISTANCE IS EXPRESSED IN OHMS
  4. ALL CAPACITANCE IS EXPRESSED IN MICR
  5. ALL INDUCTANCE IS EXPRESSED IN MICR
  6. NOT USED
  7. NOT USED
  8. COMPONENTS NOT INSTALLED.



(REV A)

Front Panel Pulse PC Board Assembly Circuit Schematic  
(0000-8135-800-B)

Front Panel Pulse PC Board Assembly  
(Sheet 10 of 12)  
Figure 36



Pulse Memory PC Board Assembly  
(7010-8133-600-D)

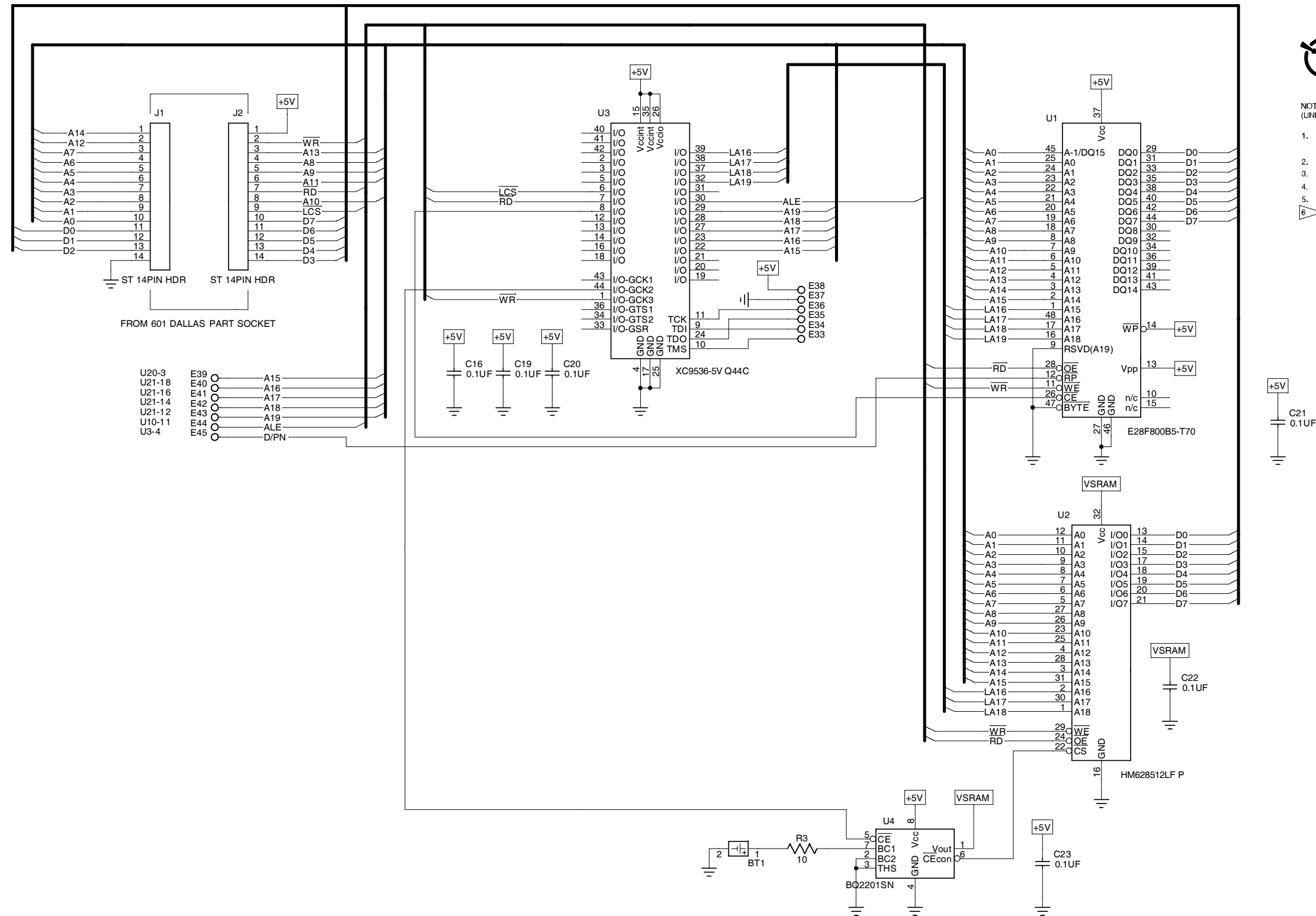
Front Panel Pulse PC Board Assembly (Sheet 11 of 12)  
Figure 36



CAUTION:  
CONTAINS PARTS AND ASSEMBLY  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD)

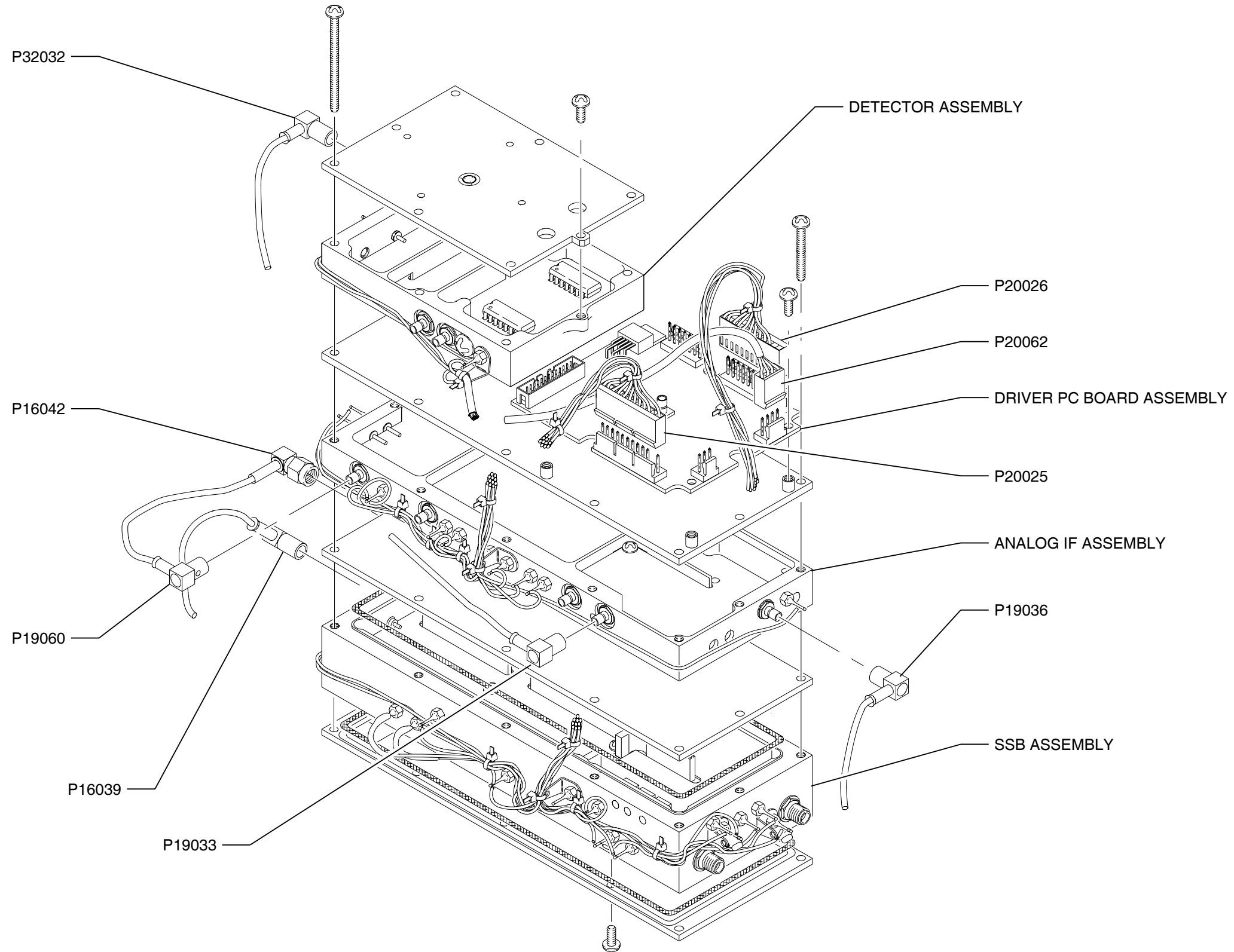
NOTES:  
(UNLESS OTHERWISE SPECIFIED)

1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. REFER TO SYSTEM INTERCONNECT
2. ALL RESISTORS ARE 1/8 W, 1% TOLERANCE.
3. ALL RESISTANCE IS EXPRESSED IN OHMS.
4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
6. COMPONENTS NOT INSTALLED.



Pulse Memory PC Board Assembly Circuit Schematic  
(0000-8133-600-D)

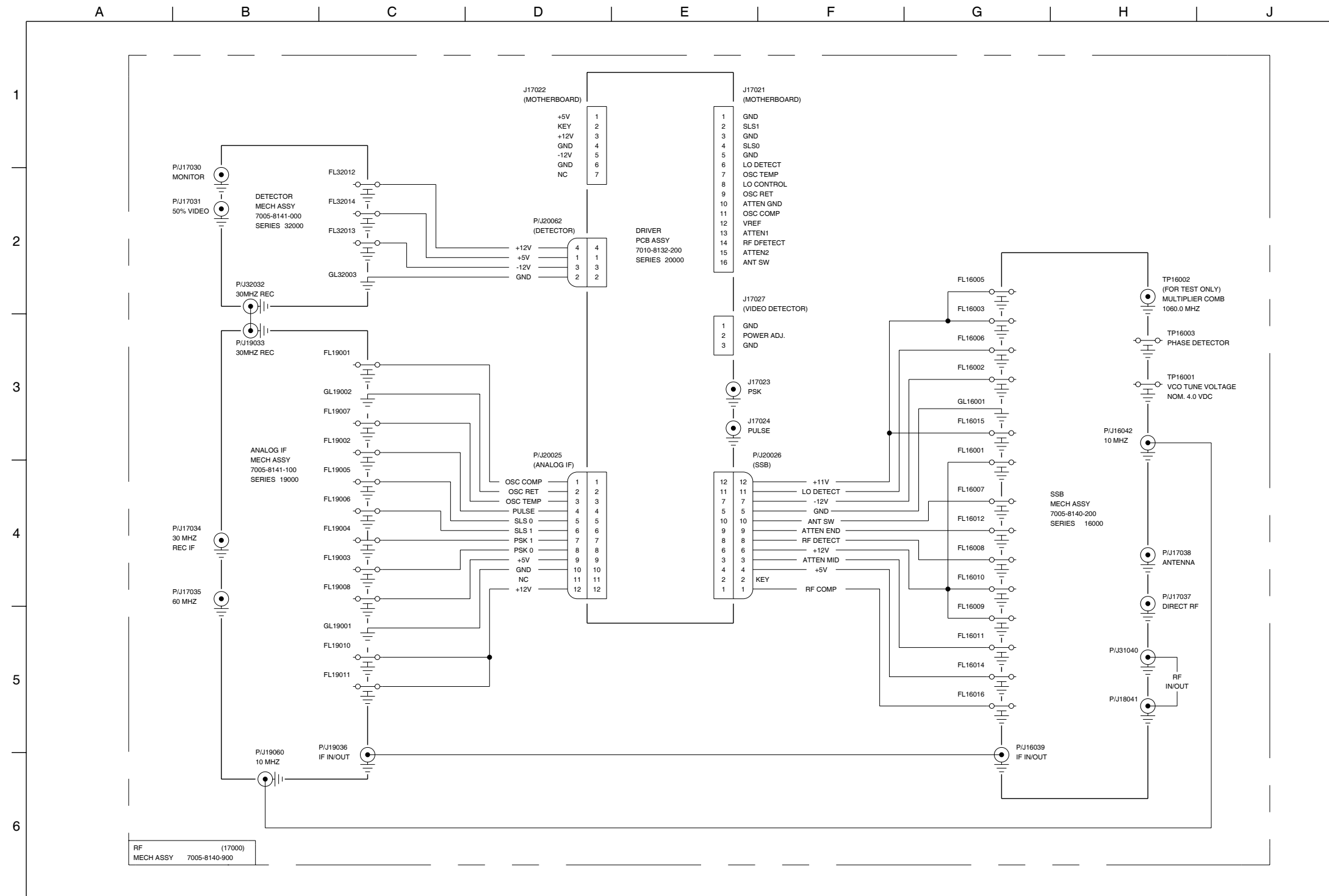
081336-D  
Front Panel Pulse PC Board Assembly  
(Sheet 12 of 12)  
Figure 36



RF Assembly  
(7005-8140-400-B)

RF Assembly (Sheet 1 of 19)  
Figure 37

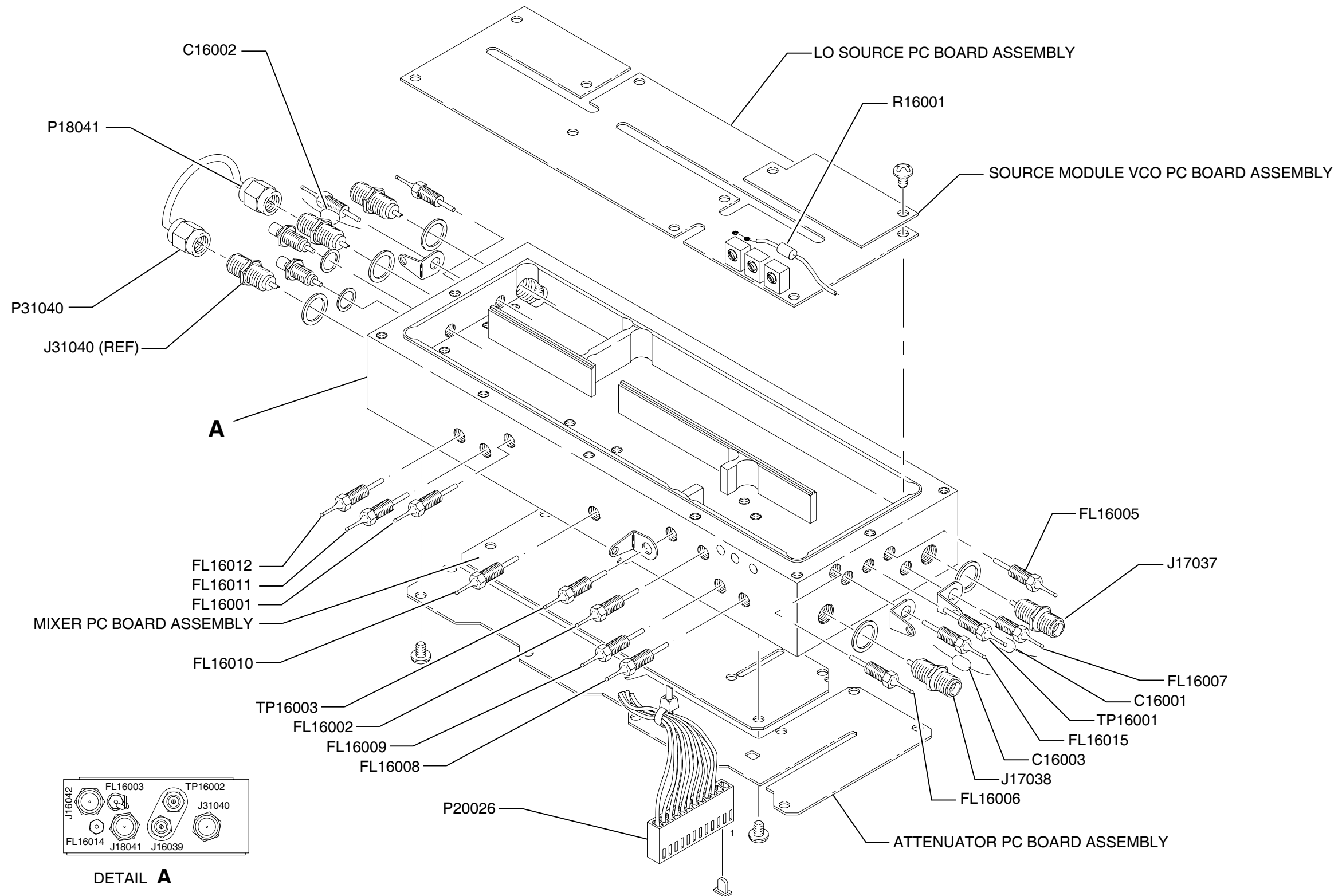
8144100M



8140900I

RF Assembly Interconnect Diagram  
(0000-8140-900-A)

RF Assembly (Sheet 2 of 19)  
Figure 37

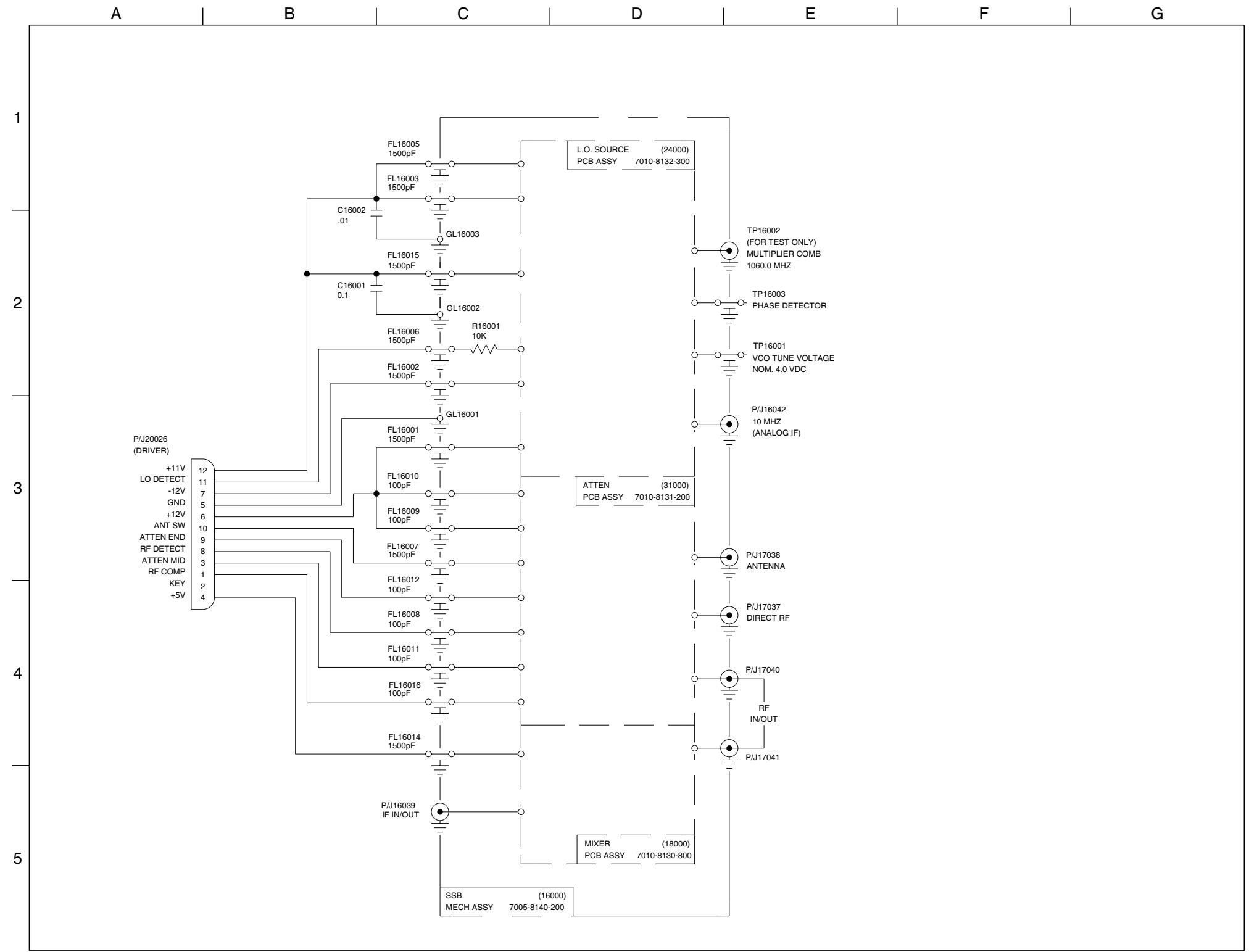


SSB Assembly  
7005-8140-700-F1, F2)

RF Assembly (Sheet 3 of 19)  
Figure 37

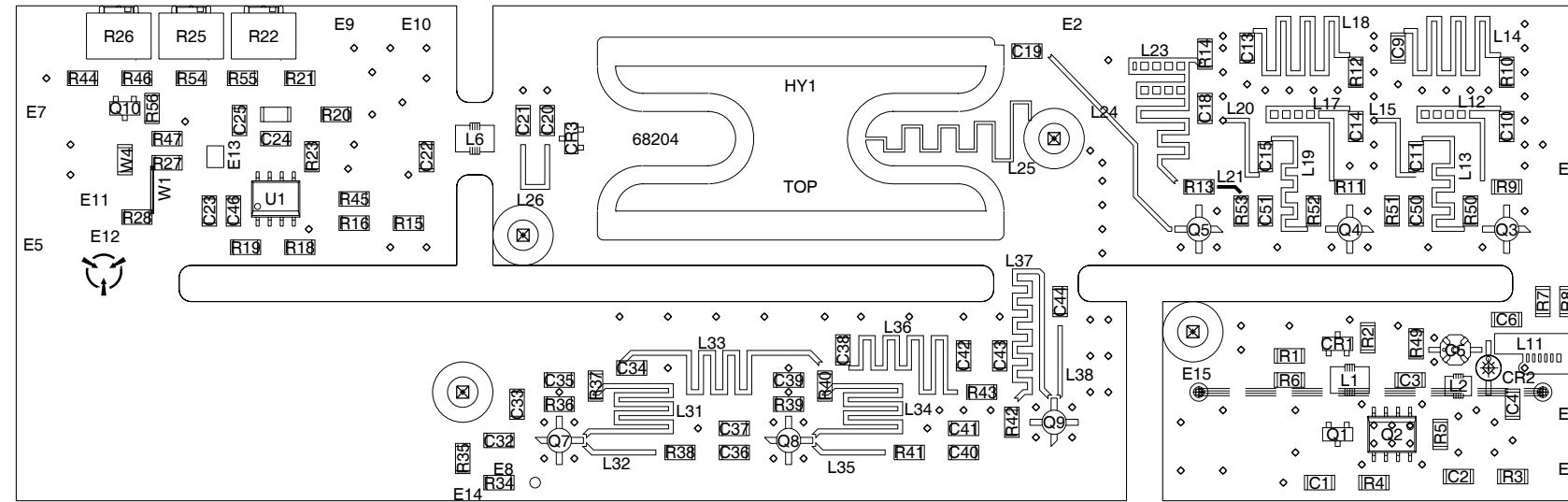
8140200M





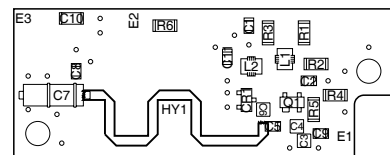
SSB Interconnect Diagram  
(0000-8140-200-B1)

RF Assembly (Sheet 4 of 19)  
Figure 37



81006-2

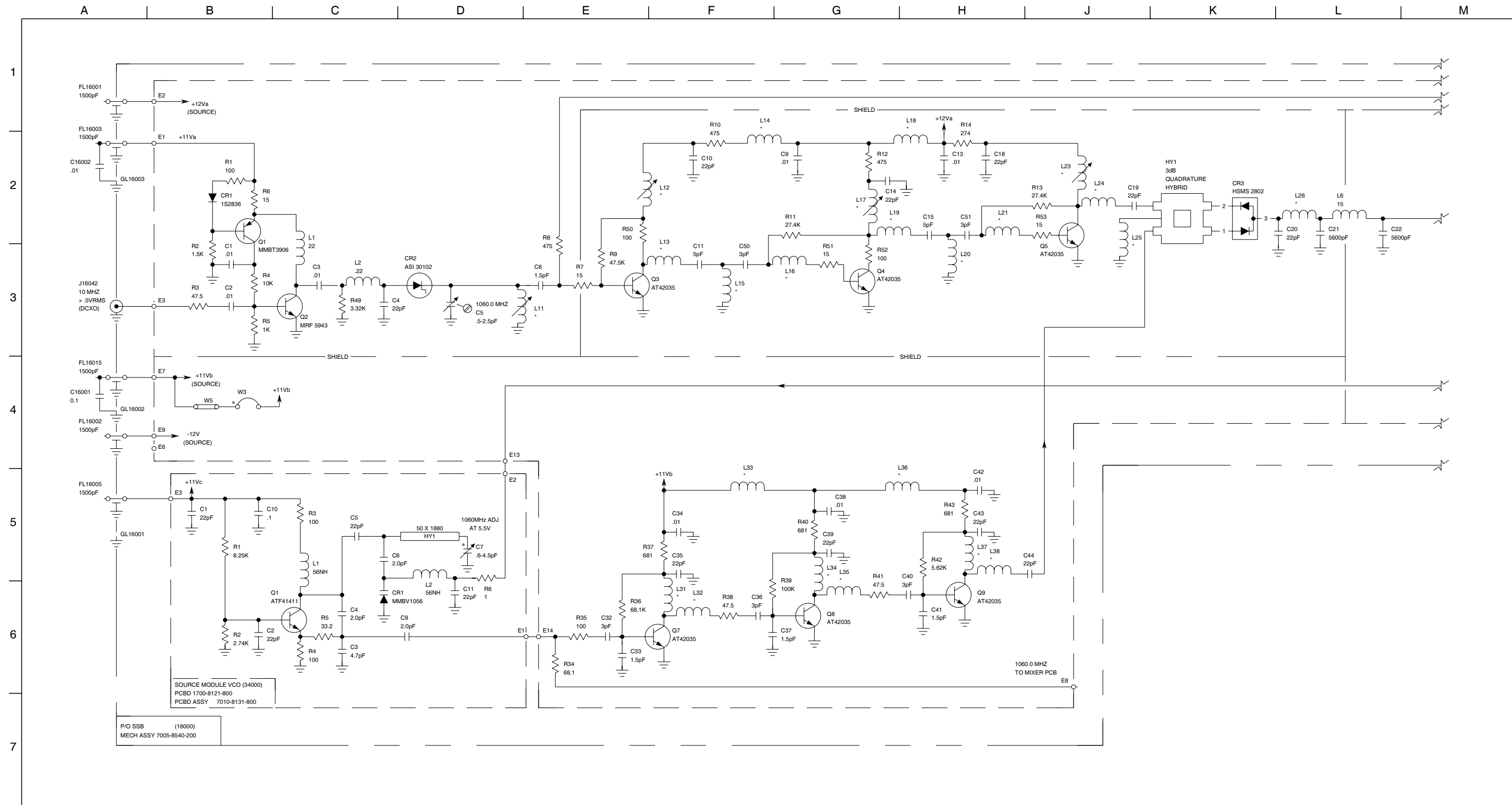
LO Source PC Board Assembly  
(7010-8132-300-E)



81007-2

Source Module VCO PC Board Assembly  
(7010-8131-800-E)

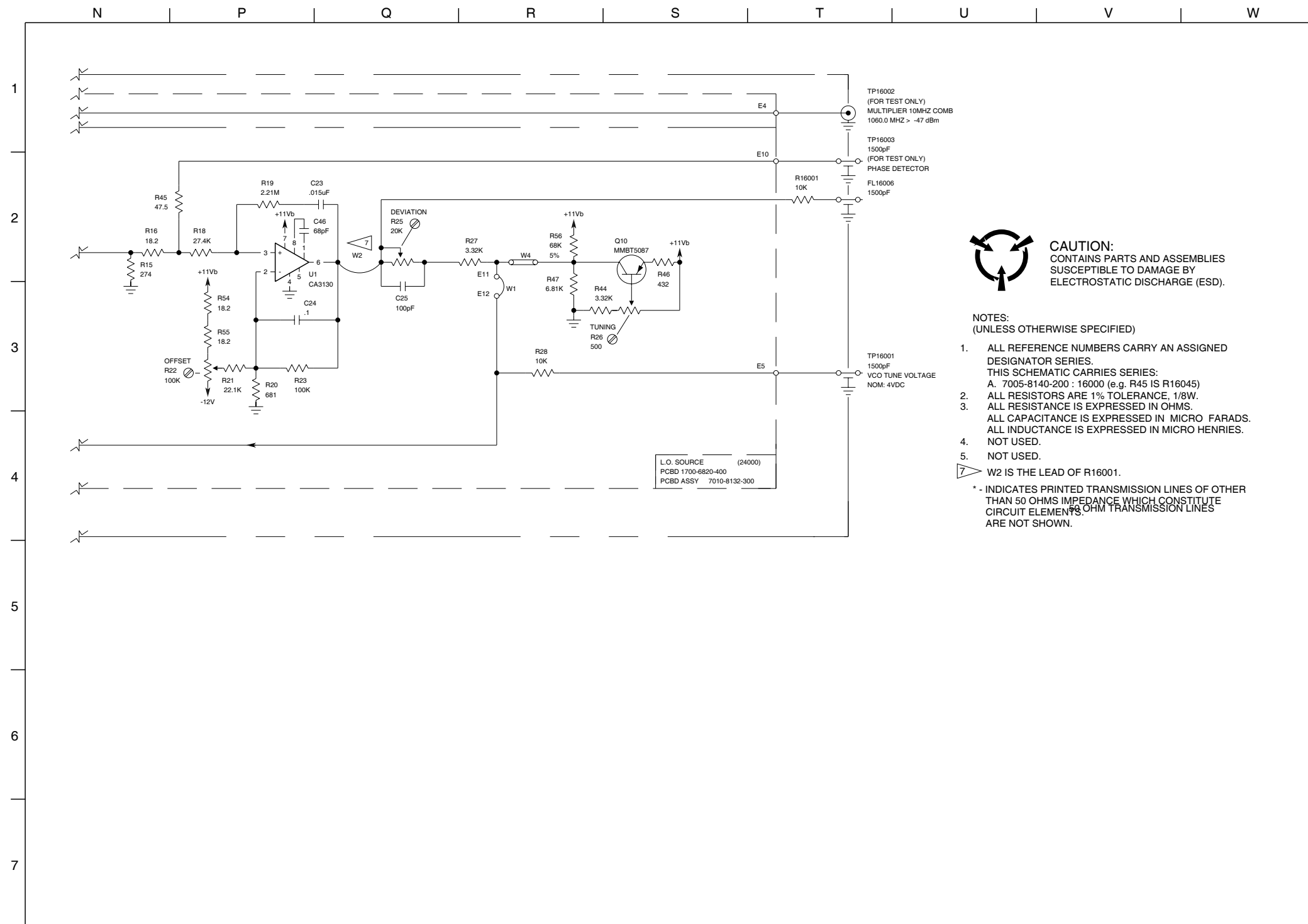
RF Assembly (Sheet 5 of 19)  
Figure 37



LO Source & Source Module VCO PC Board Assemblies Circuit Schematic  
(0000-8132-300-C)

RF Assembly (Sheet 6 of 19)  
Figure 37

8132301S



**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

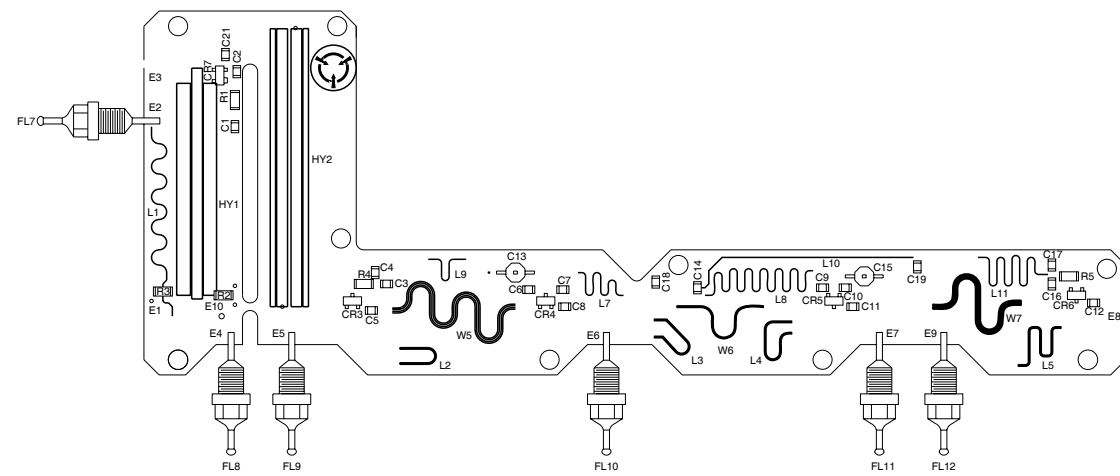
NOTES:  
(UNLESS OTHERWISE SPECIFIED)

1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES.  
THIS SCHEMATIC CARRIES SERIES:  
A. 7005-8140-200 : 16000 (e.g. R45 IS R16045)
  2. ALL RESISTORS ARE 1% TOLERANCE, 1/8W.
  3. ALL RESISTANCE IS EXPRESSED IN OHMS.  
ALL CAPACITANCE IS EXPRESSED IN MICRO FARADS.  
ALL INDUCTANCE IS EXPRESSED IN MICRO HENRIES.
  4. NOT USED.
  5. NOT USED.
- 7 W2 IS THE LEAD OF R16001.
- \* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.

8132302S

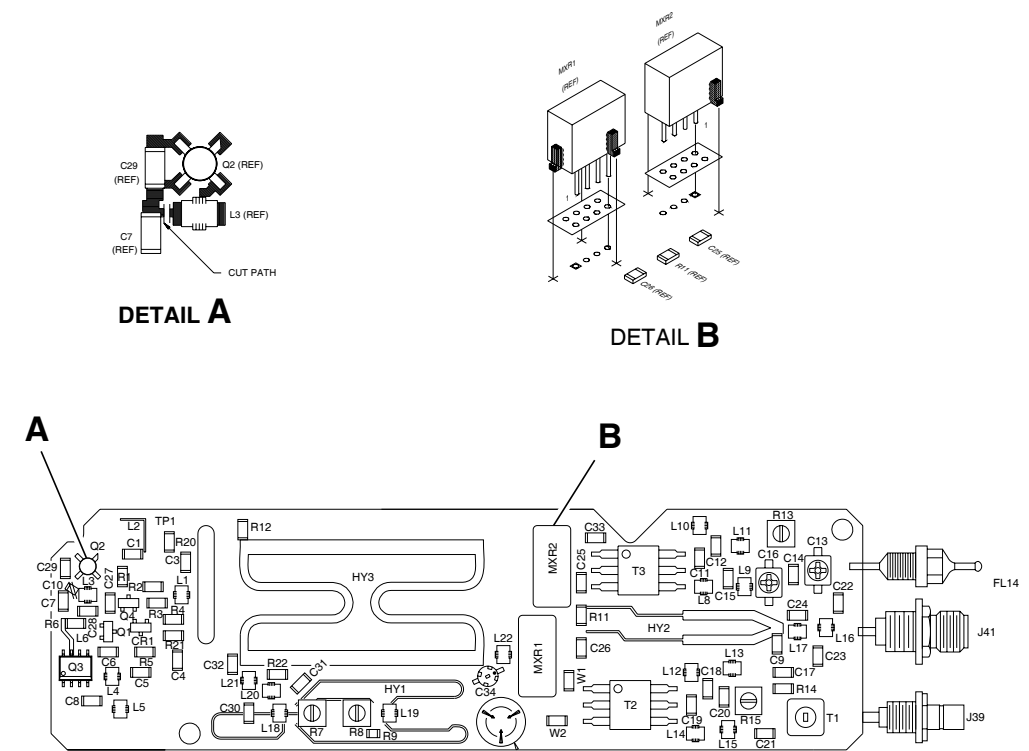
LO Source & Source Module VCO PC Board Assemblies Circuit Schematic  
(0000-8132-300-C)

RF Assembly (Sheet 7 of 19)  
Figure 37



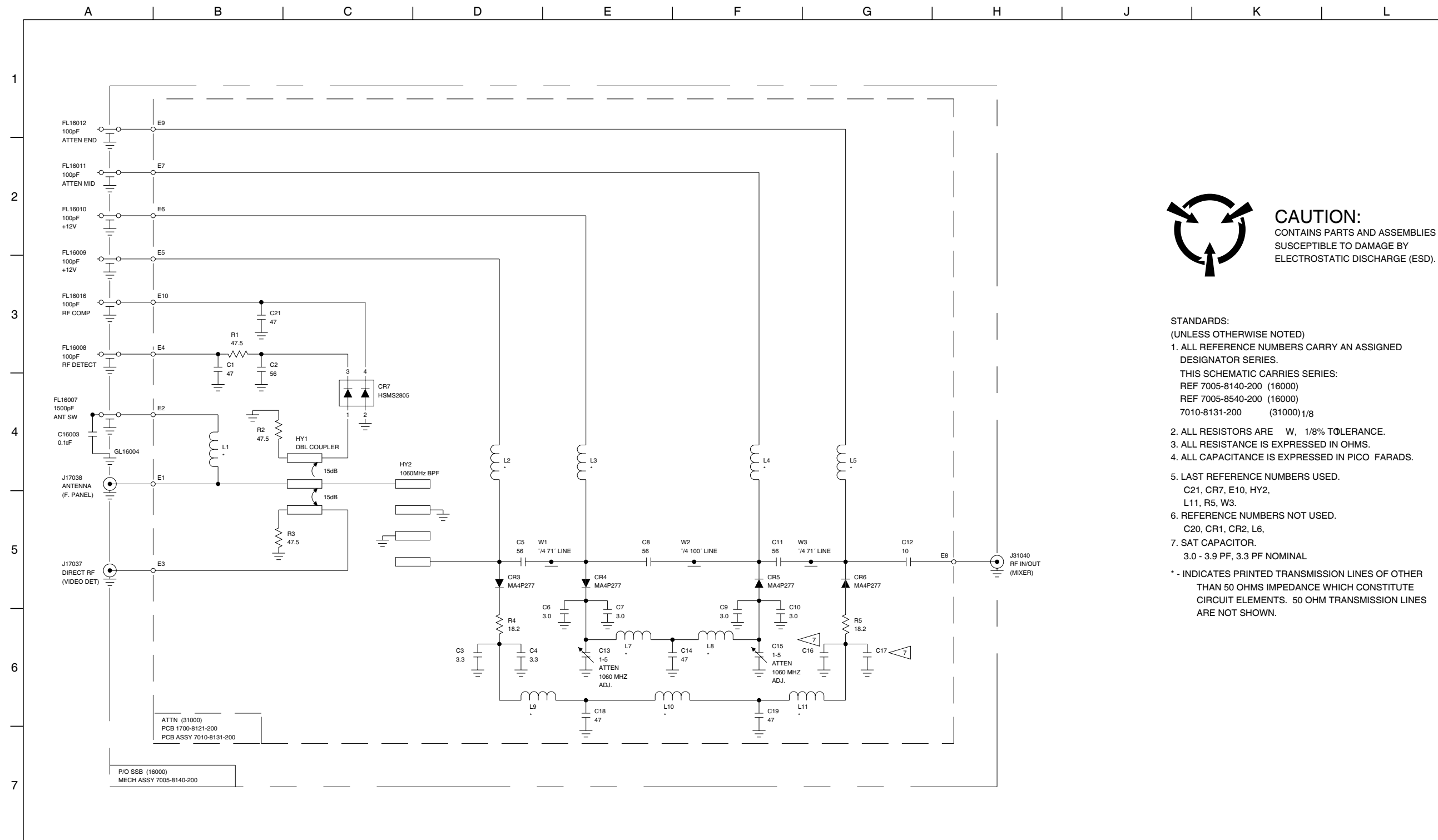
Attenuator PC Board Assembly  
(7010-8131-200-C)

81008-2



Mixer PC Board Assembly  
(7010-8130-800-F1)

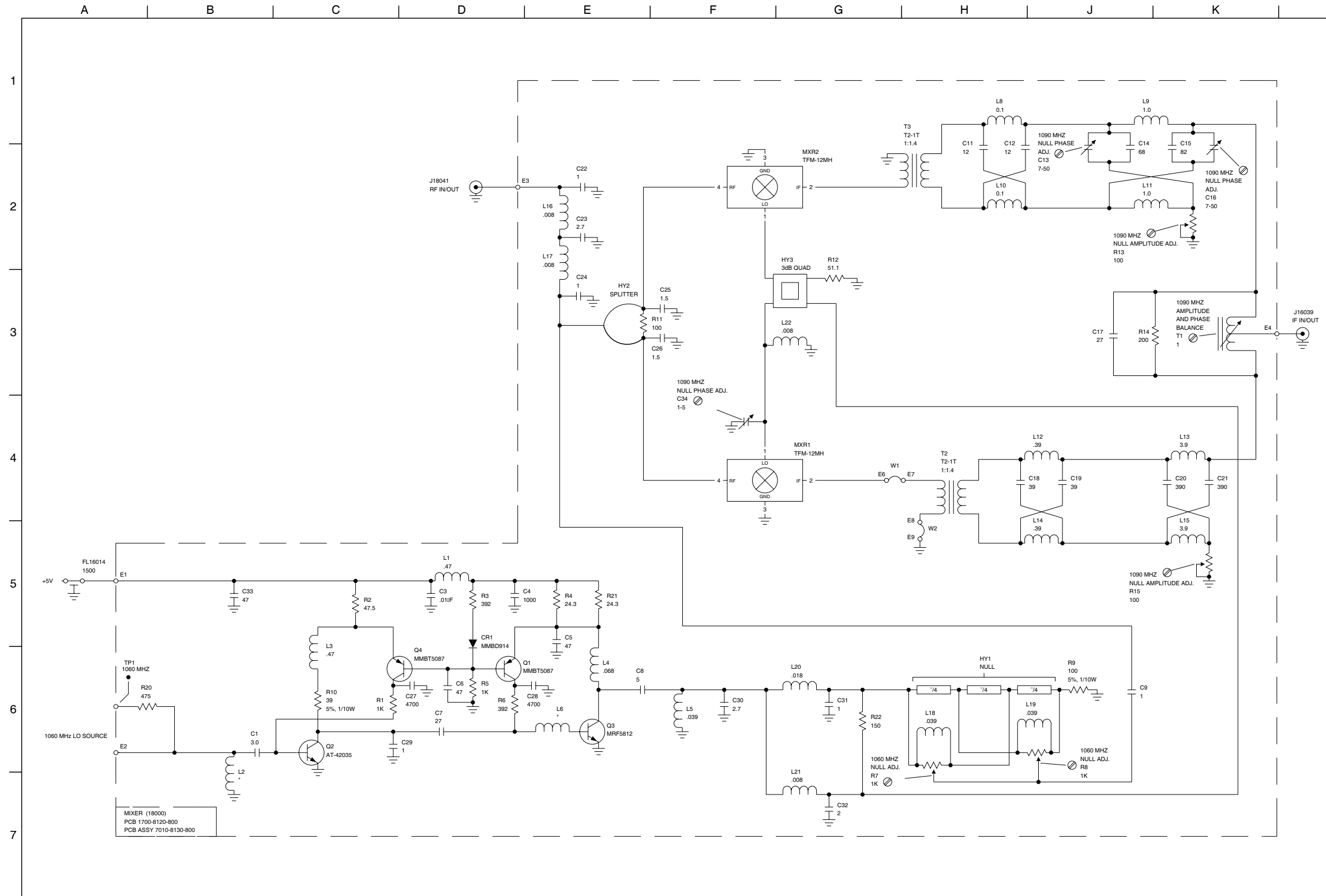
8130800P



Attenuator PC Board Assembly Circuit Schematic  
(0000-8131-200-C)

RF Assembly (Sheet 9 of 19)  
Figure 37

81009-2



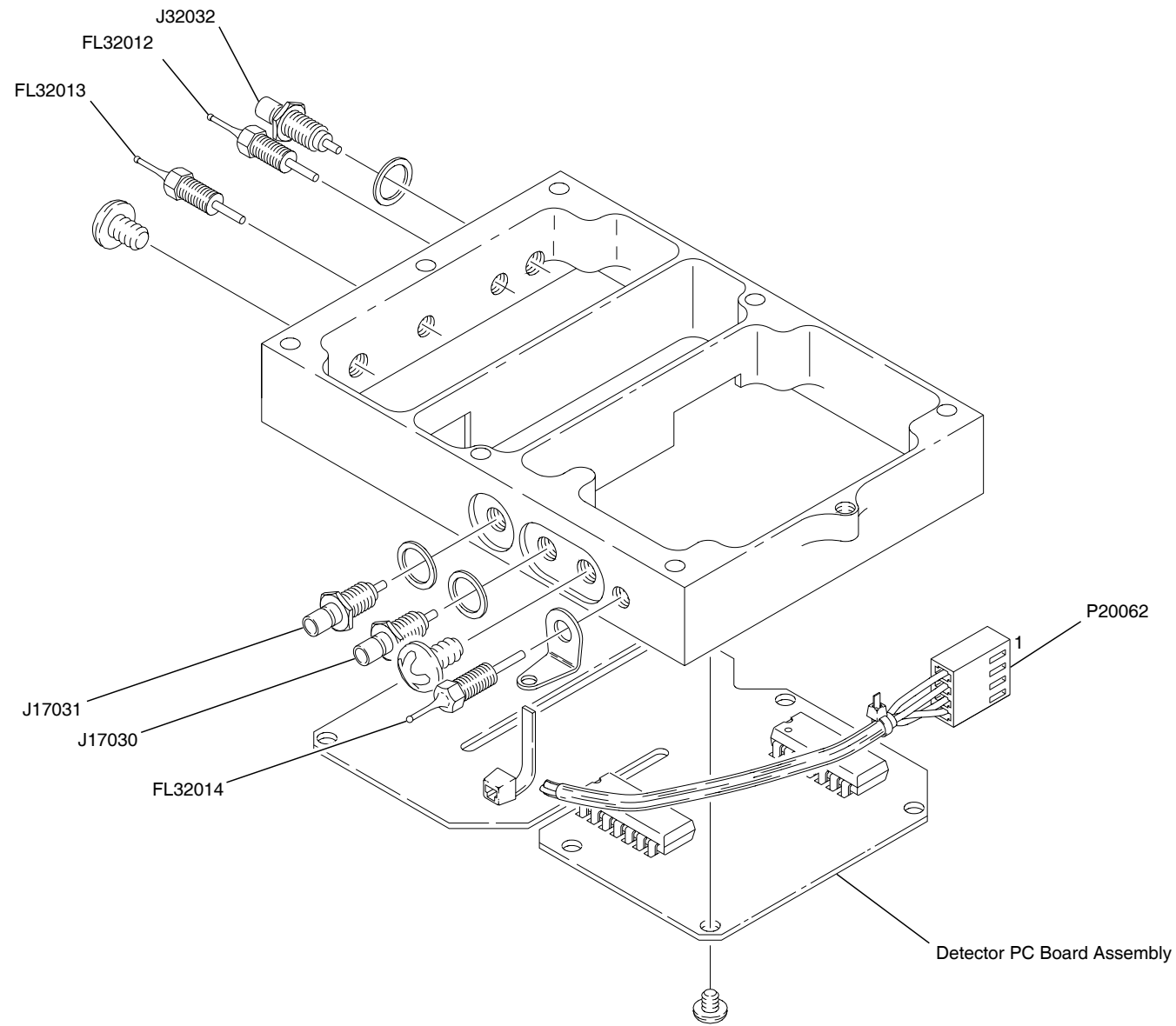
**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

- NOTES:  
(UNLESS OTHERWISE SPECIFIED)
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:  
A. 7010-8130-800 SERIES 18000 (e.g. C1 IS 1J8001)
  2. ALL RESISTORS ARE 1/8W, 1% TOLERANCE.
  3. ALL RESISTANCE IS EXPRESSED IN OHMS.
  4. ALL CAPACITANCE IS EXPRESSED IN PICOFARADS.
  5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.

\* - INDICATES TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS.

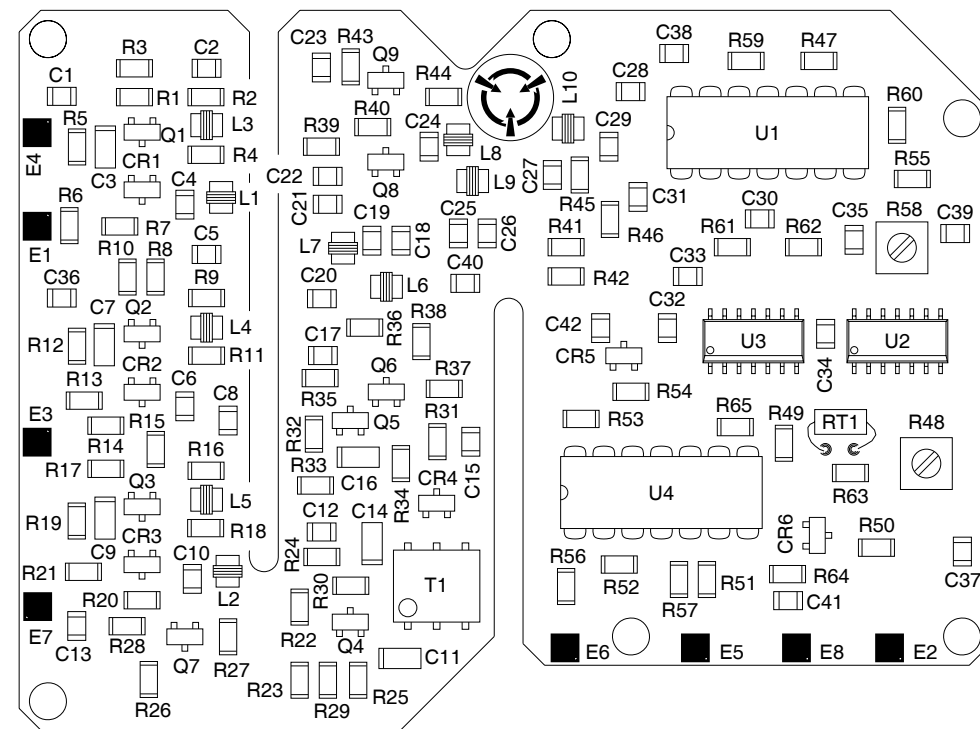
Mixer PC Board Assembly Circuit Schematic  
(0000-8130-800-F1)

RF Assembly (Sheet 10 of 19)  
Figure 37



Detector Assembly  
(7005-8141-000-C)

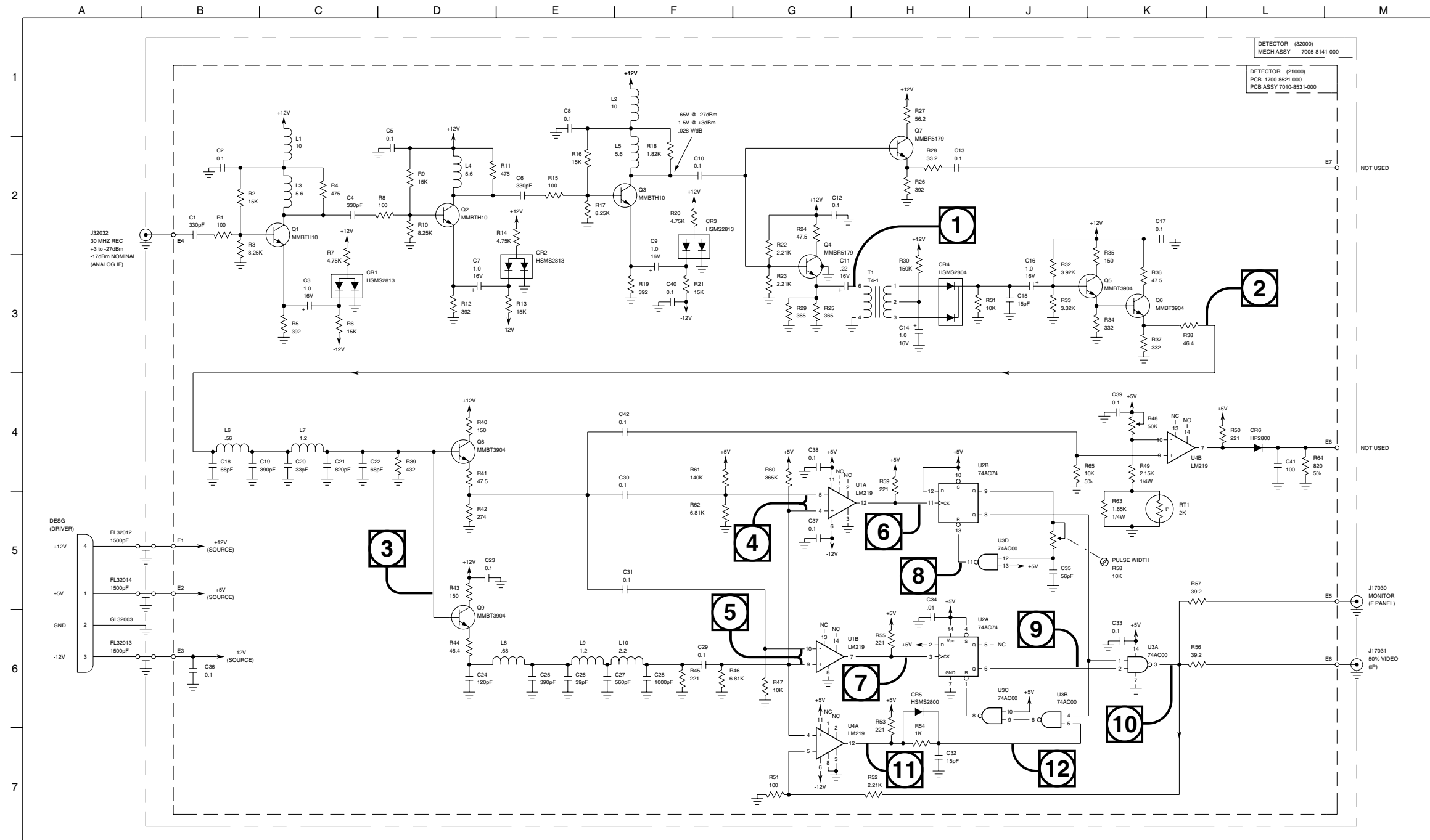
8141000M



Detector PC Board Assembly  
(7010-8531-000-C3)

8531000P



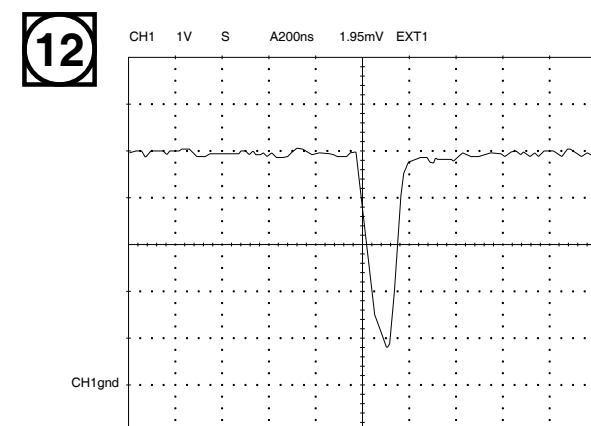
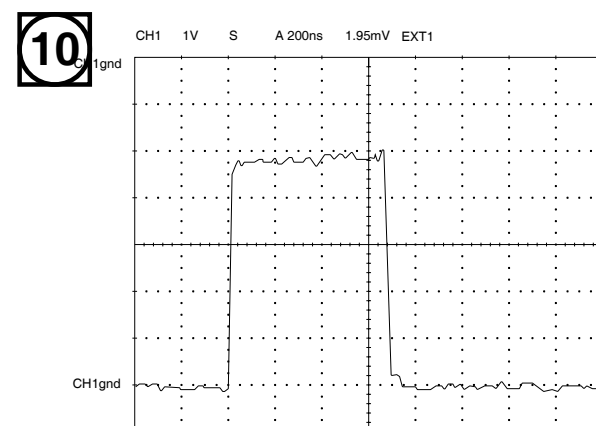
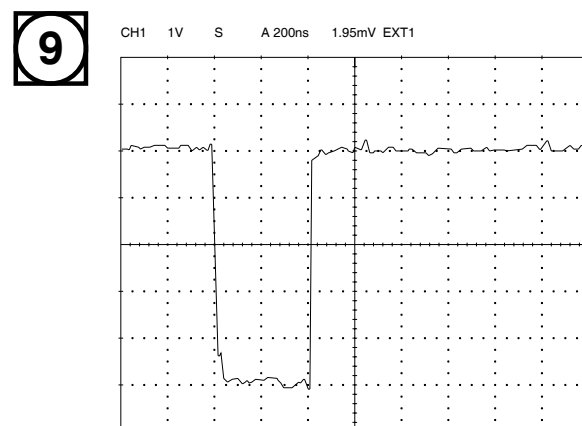
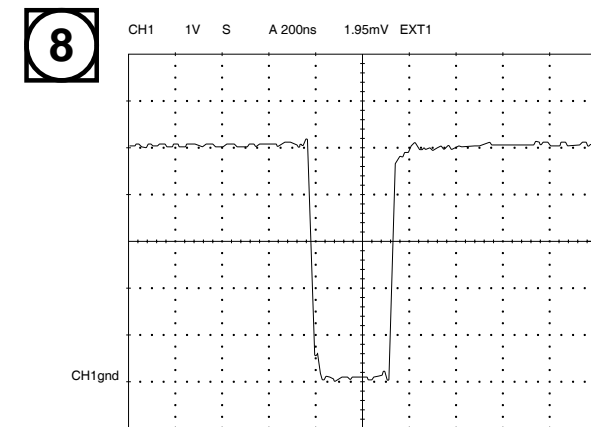
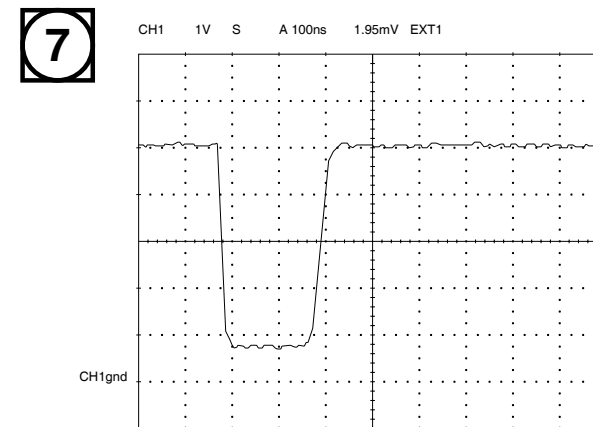
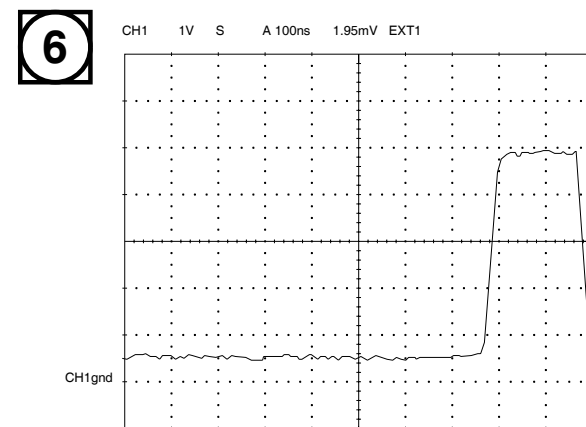
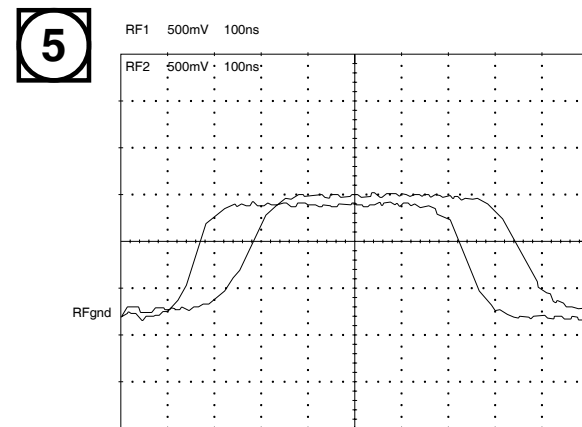
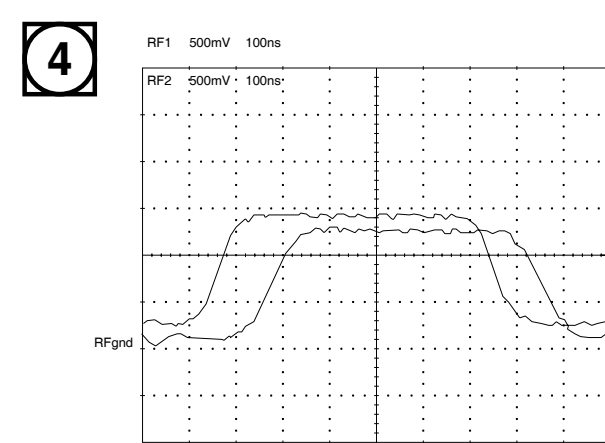
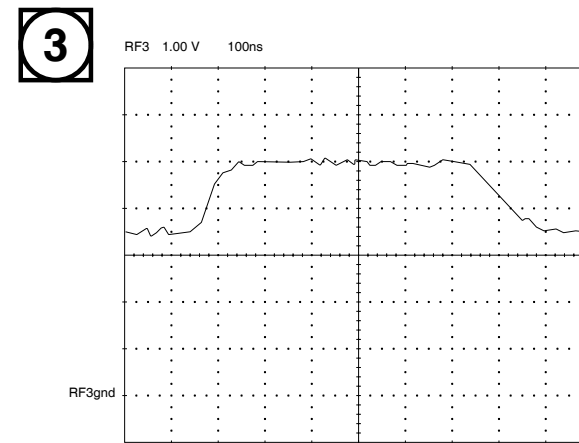
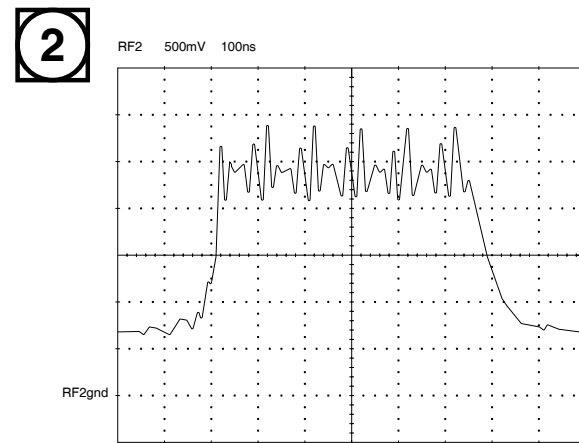
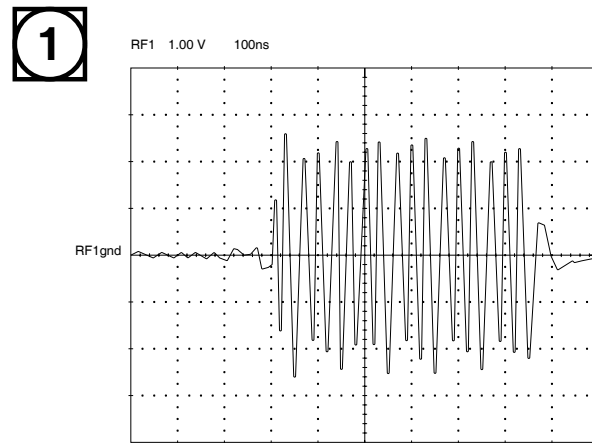


**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

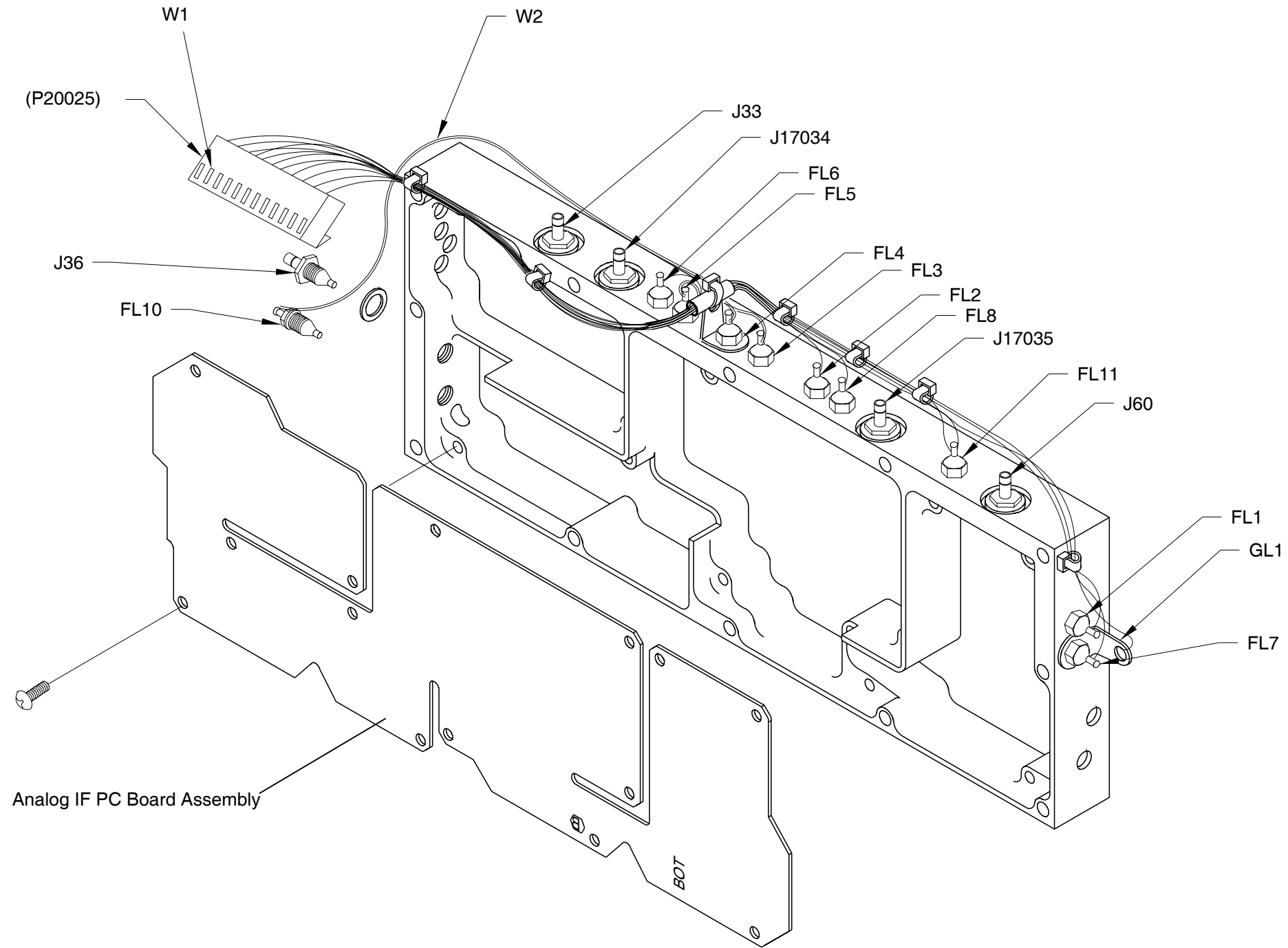
- NOTES:  
(UNLESS OTHERWISE SPECIFIED)
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:  
A. 7010-8531-000 21000 (e.g. R1 IS R21001)  
B. 7005-8141-000 32000 (e.g. FL12 IS FL32012)  
ALL RESISTORS ARE 1/8W, 1% TOLERANCE.
  2. ALL RESISTANCE IS EXPRESSED IN OHMS.
  3. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
  4. ALL INDUCTANCE IS EXPRESSED IN MICROHENRYS.

Detector Assembly Circuit Schematic  
(0000-8531-000-C3)

RF Assembly (Sheet 12 of 19)  
Figure 37



8141002S

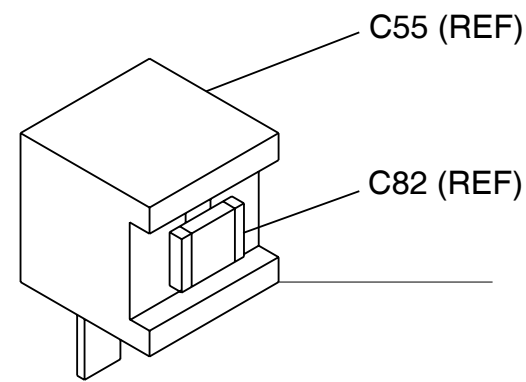
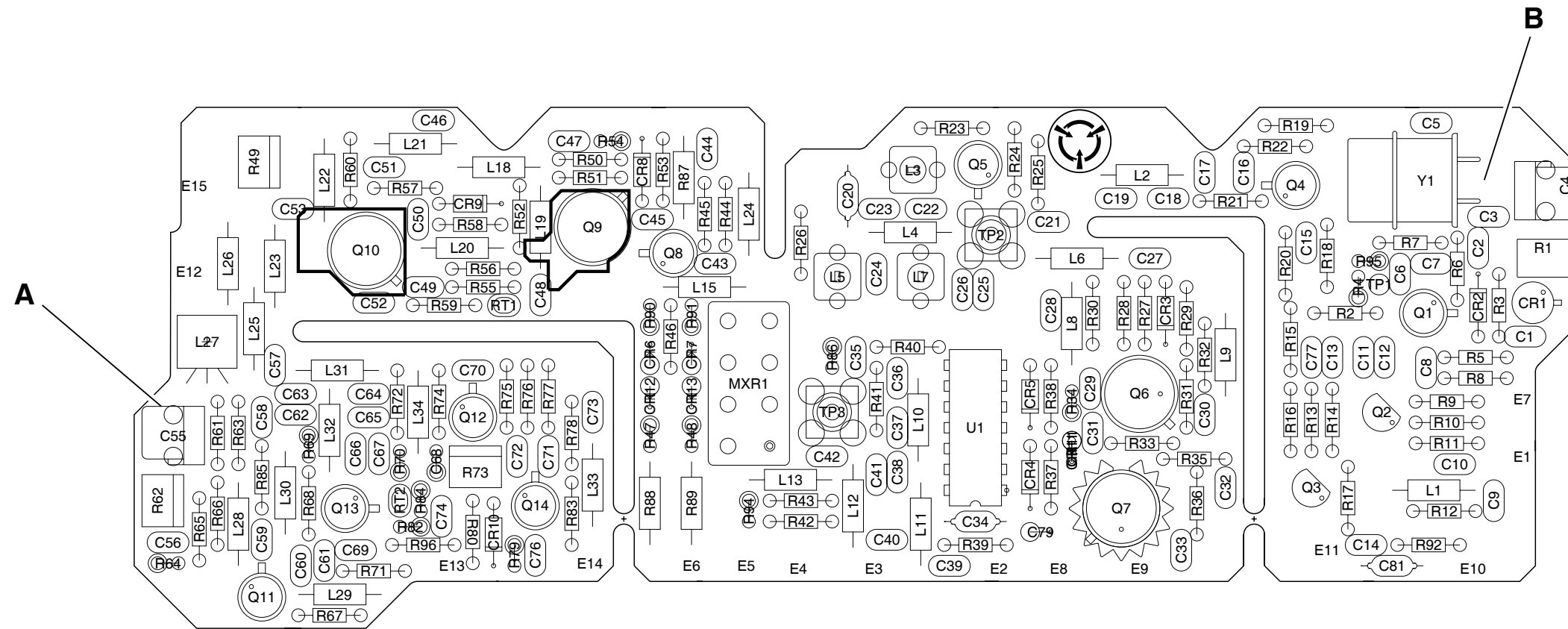


Analog IF PC Board Assembly

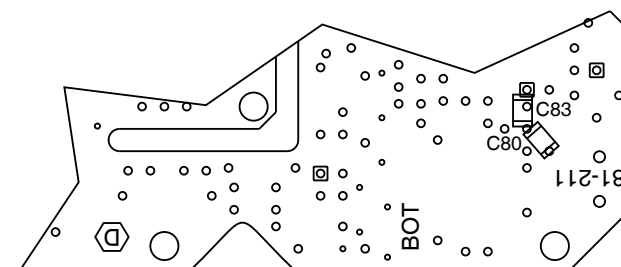
Analog IF Assembly  
(7005-8141-100-F)

RF Assembly (Sheet 14 of 19)  
Figure 37

81010-2



DETAIL A



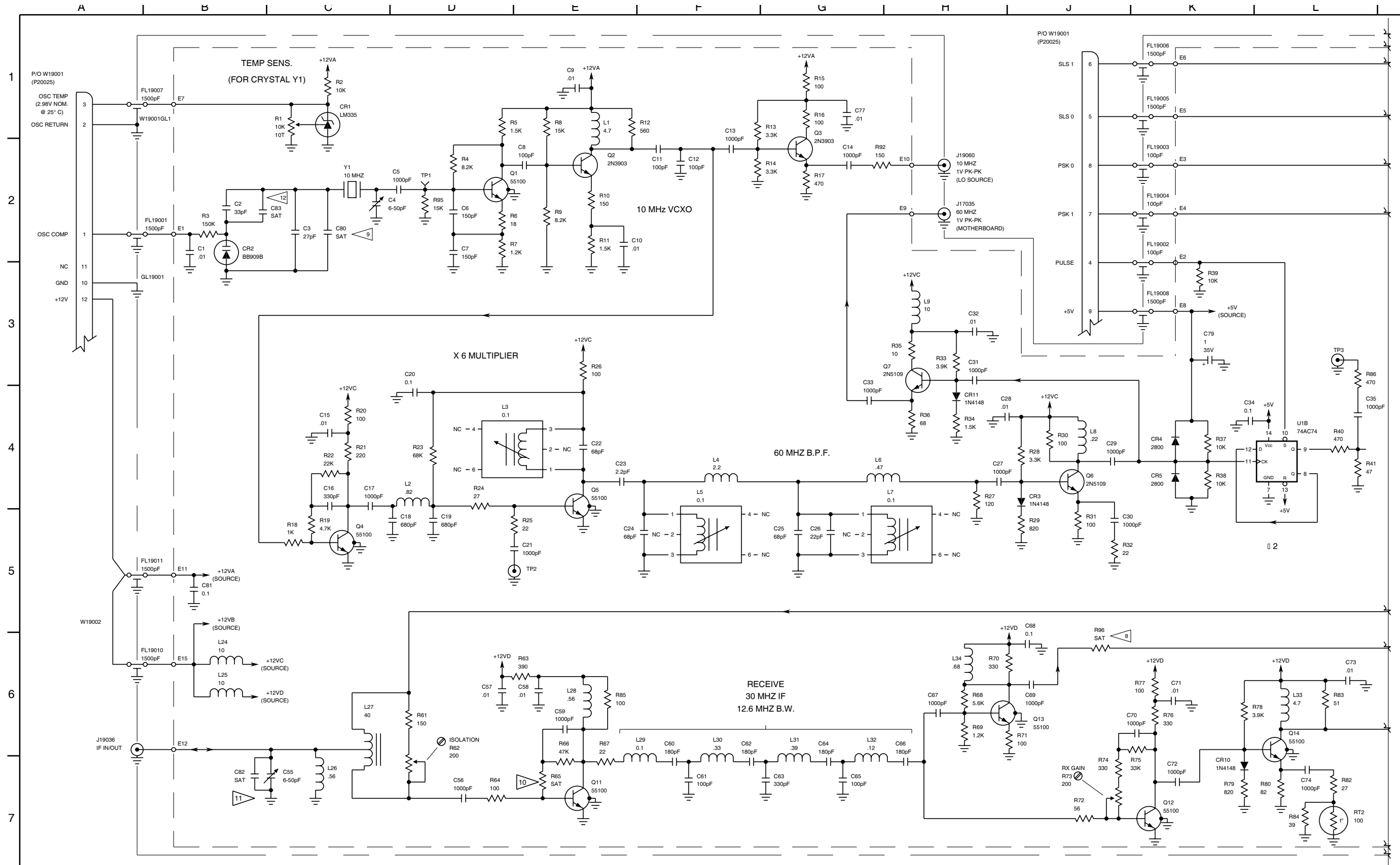
BOTTOM SIDE

DETAIL B

Analog IF PC Board Assembly  
(7010-8131-100-F1)

RF Assembly (Sheet 15 of 19)  
Figure 37

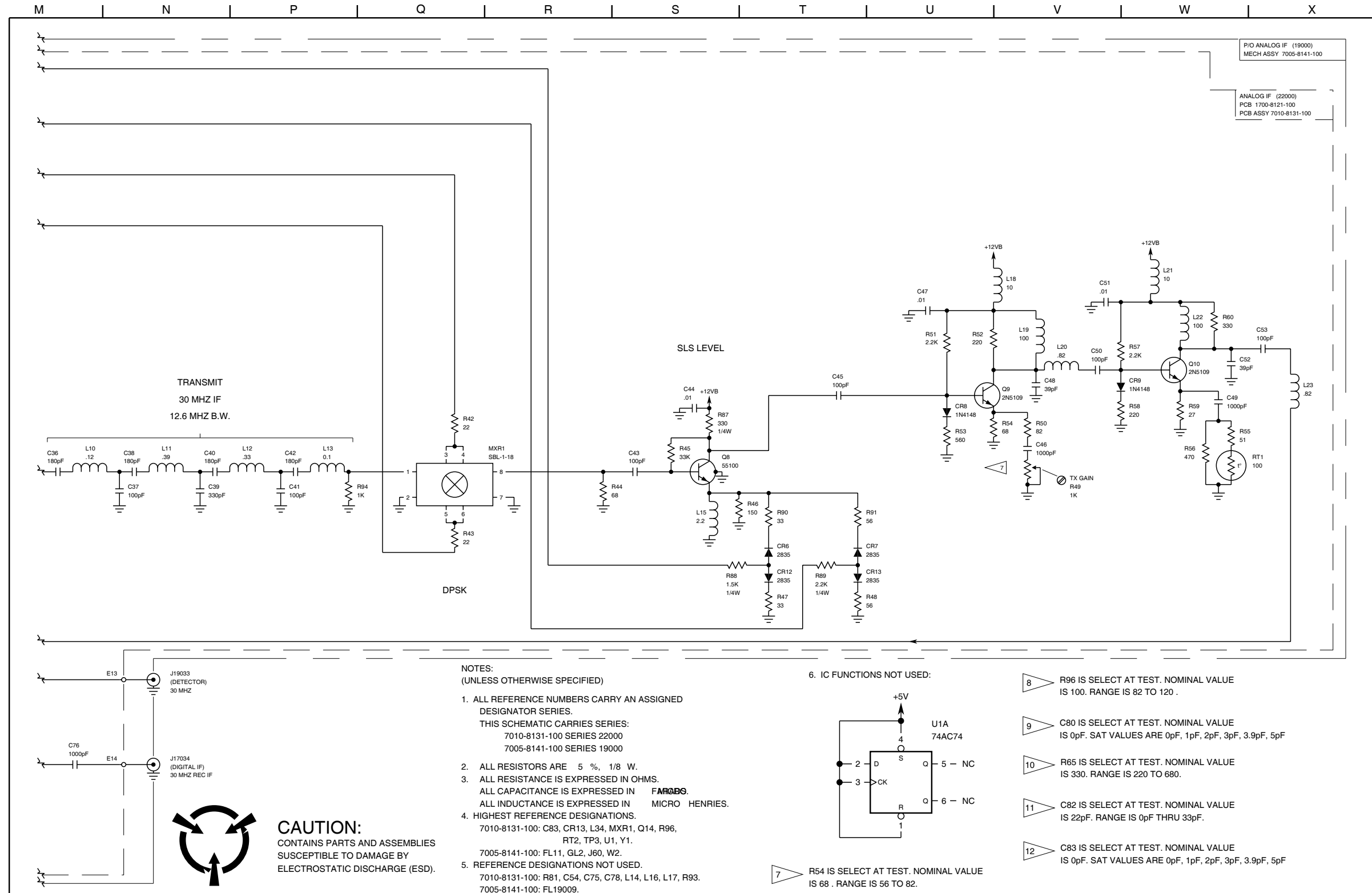
81011-2



Analog IF Assembly Circuit Schematic  
(0000-8141-100-F2)

RF Assembly (Sheet 16 of 19)  
Figure 37

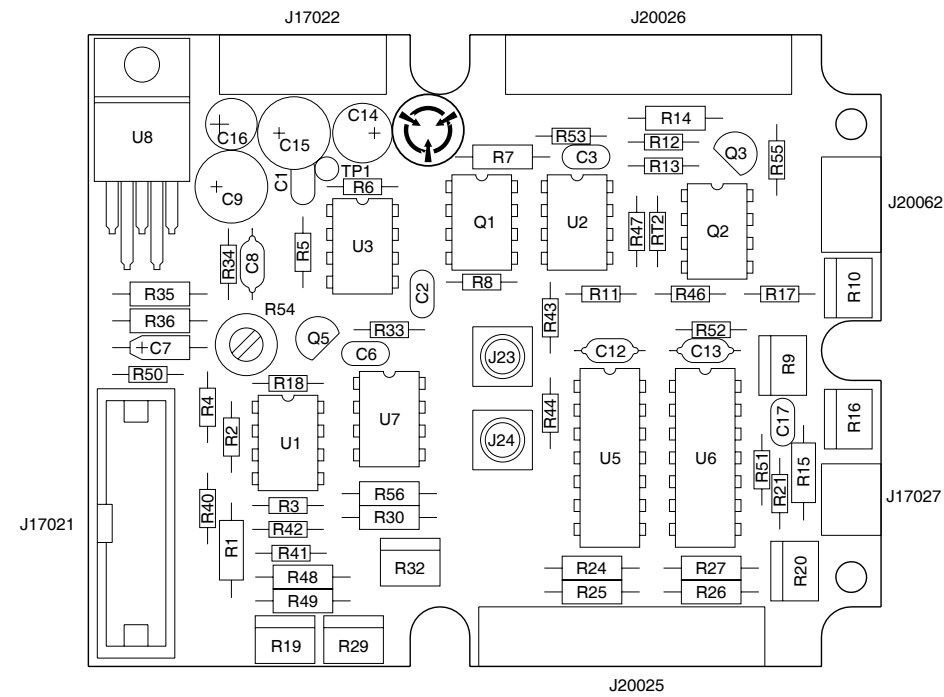
81012-2



81013-2

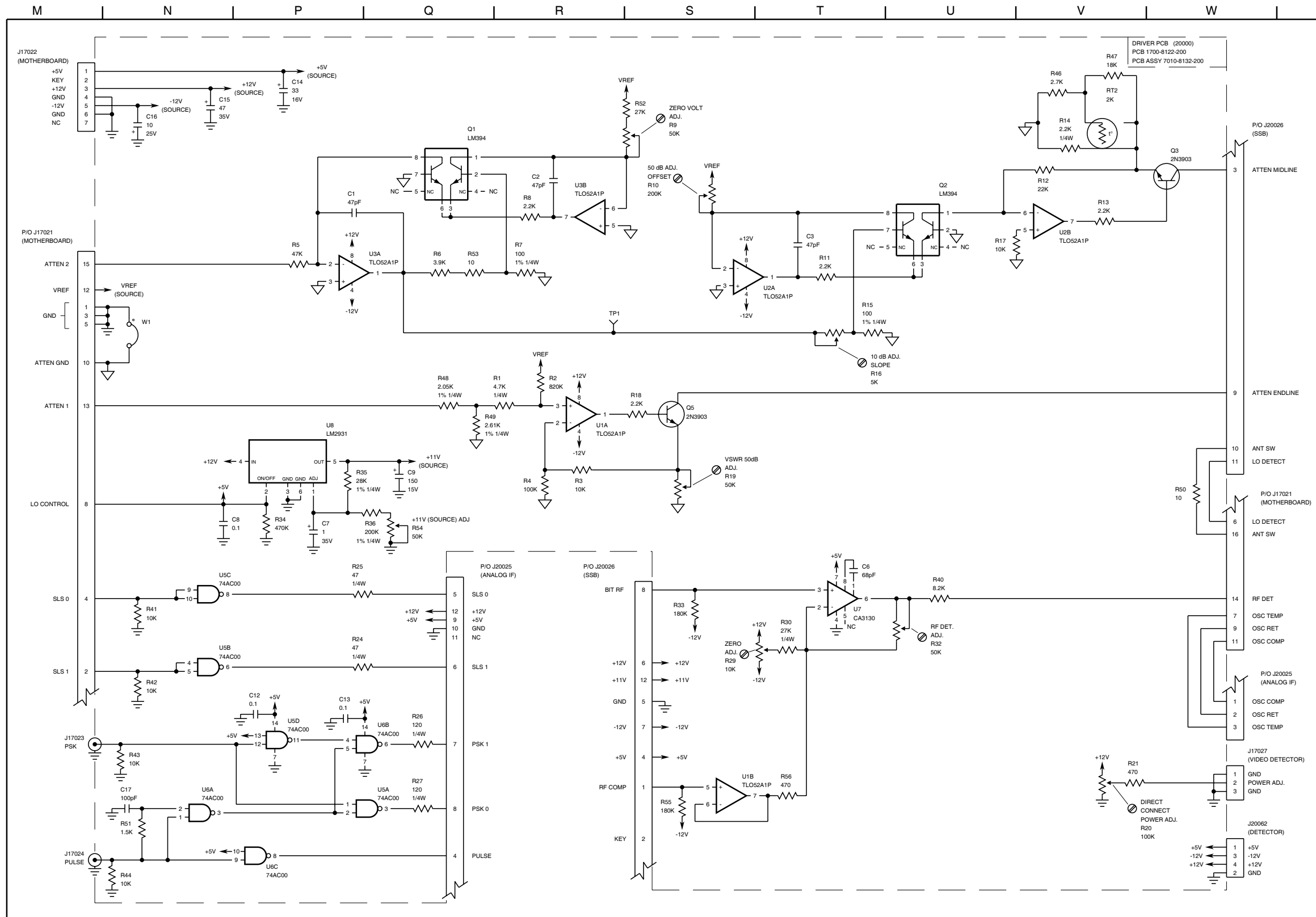
Analog IF Assembly Circuit Schematic  
(0000-8141-100-D2)

RF Assembly (Sheet 17 of 19)  
Figure 37



8132200P

Driver PC Board Assembly  
(7010-8132-200-C)



**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

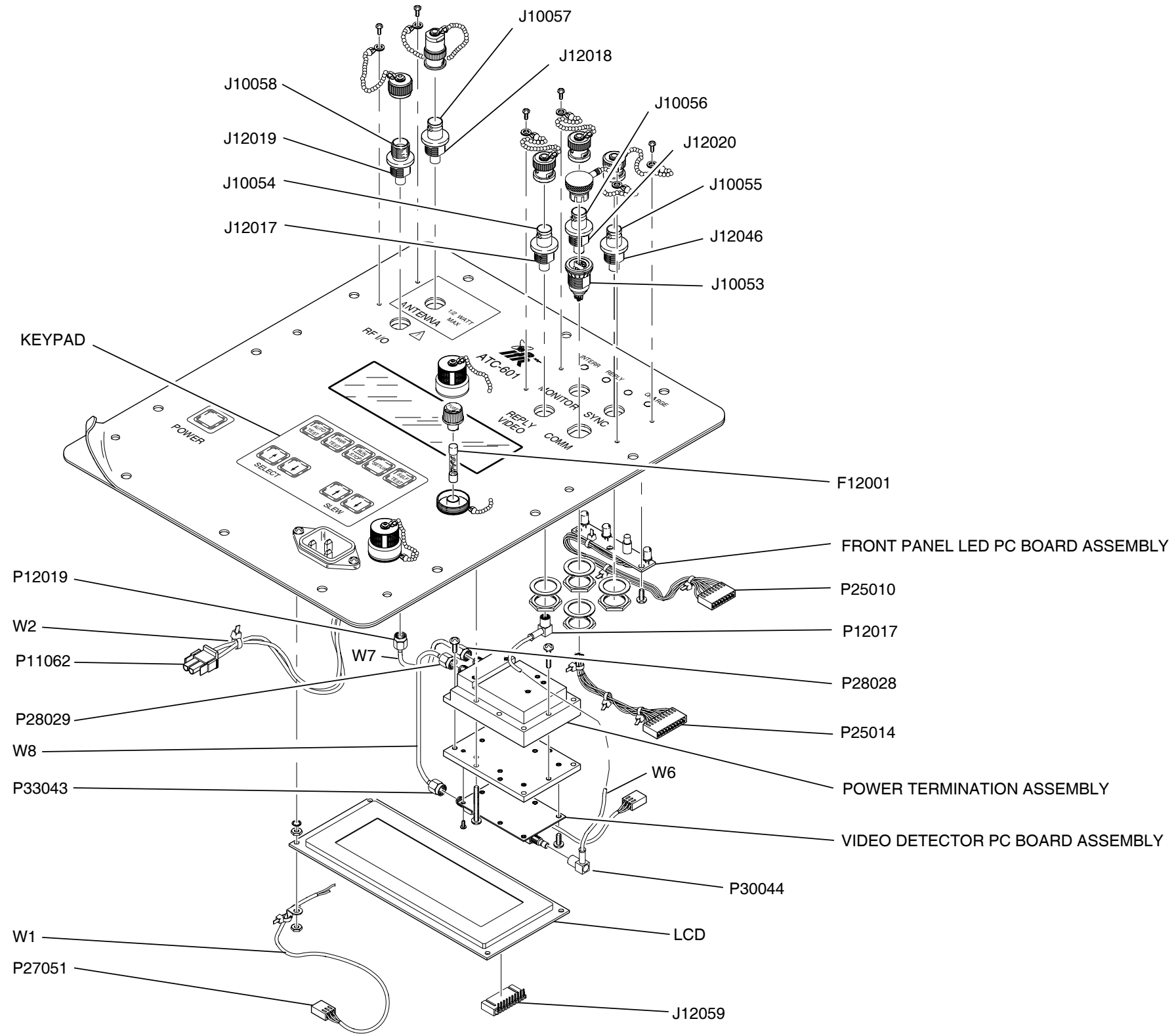
- STANDARDS:  
(UNLESS OTHERWISE NOTED)  
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES.  
THIS SCHEMATIC CARRIES SERIES: 20000  
2. ALL RESISTORS ARE W/1% TOLERANCE.  
3. ALL RESISTANCE IS EXPRESSED IN OHMS. FARNBORO  
4. ALL CAPACITANCE IS EXPRESSED IN MICRO HENRIES.  
5. ALL INDUCTANCE IS EXPRESSED IN MICRO HENRIES.

Driver PC Board Assembly Circuit Schematic  
(0000-8132-200-C)

RF Assembly (Sheet 19 of 19)  
Figure 37

81015-2

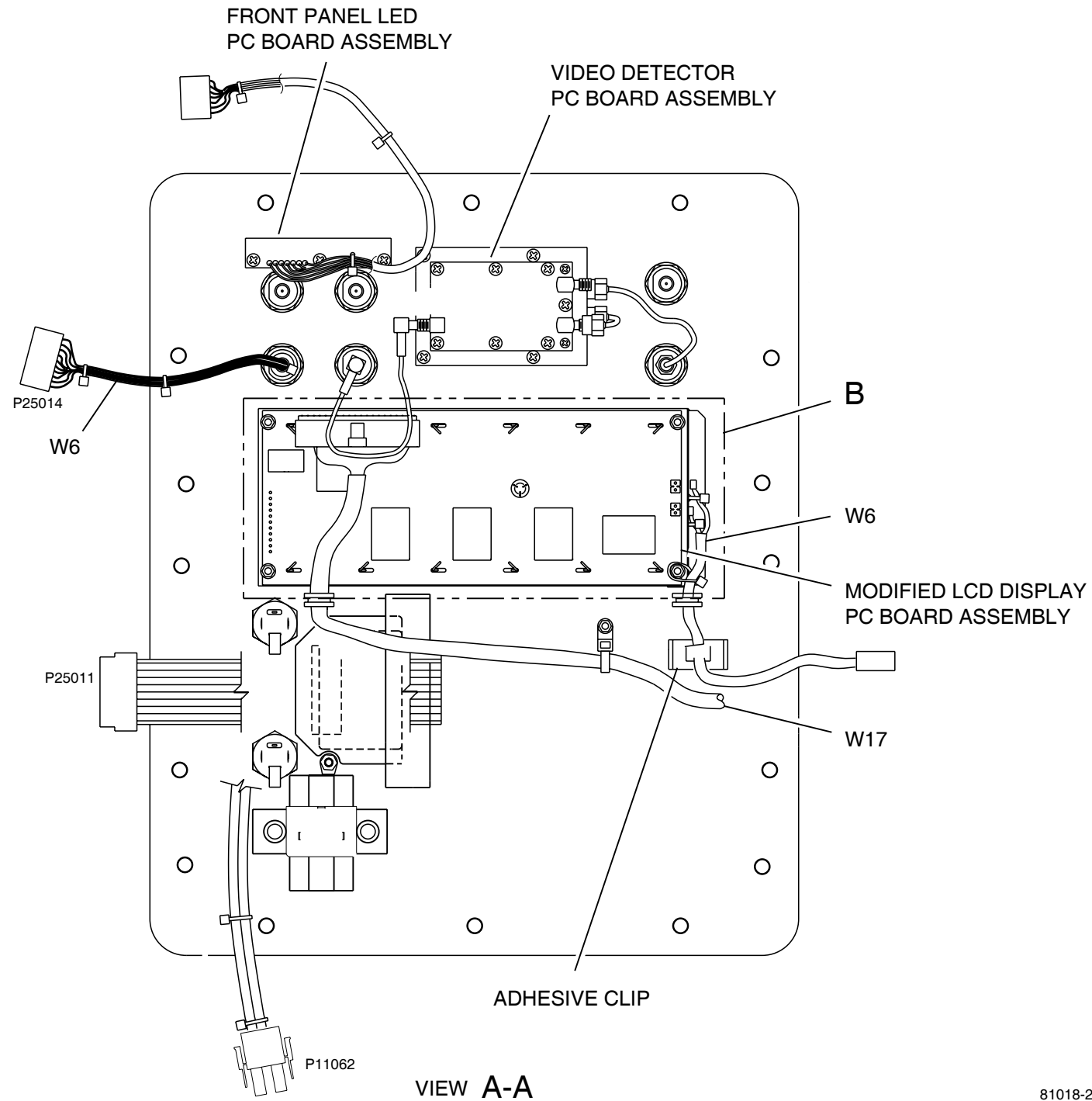




Front Panel Assembly  
(7005-8144-200-D) (7005-8142-900-A, B)

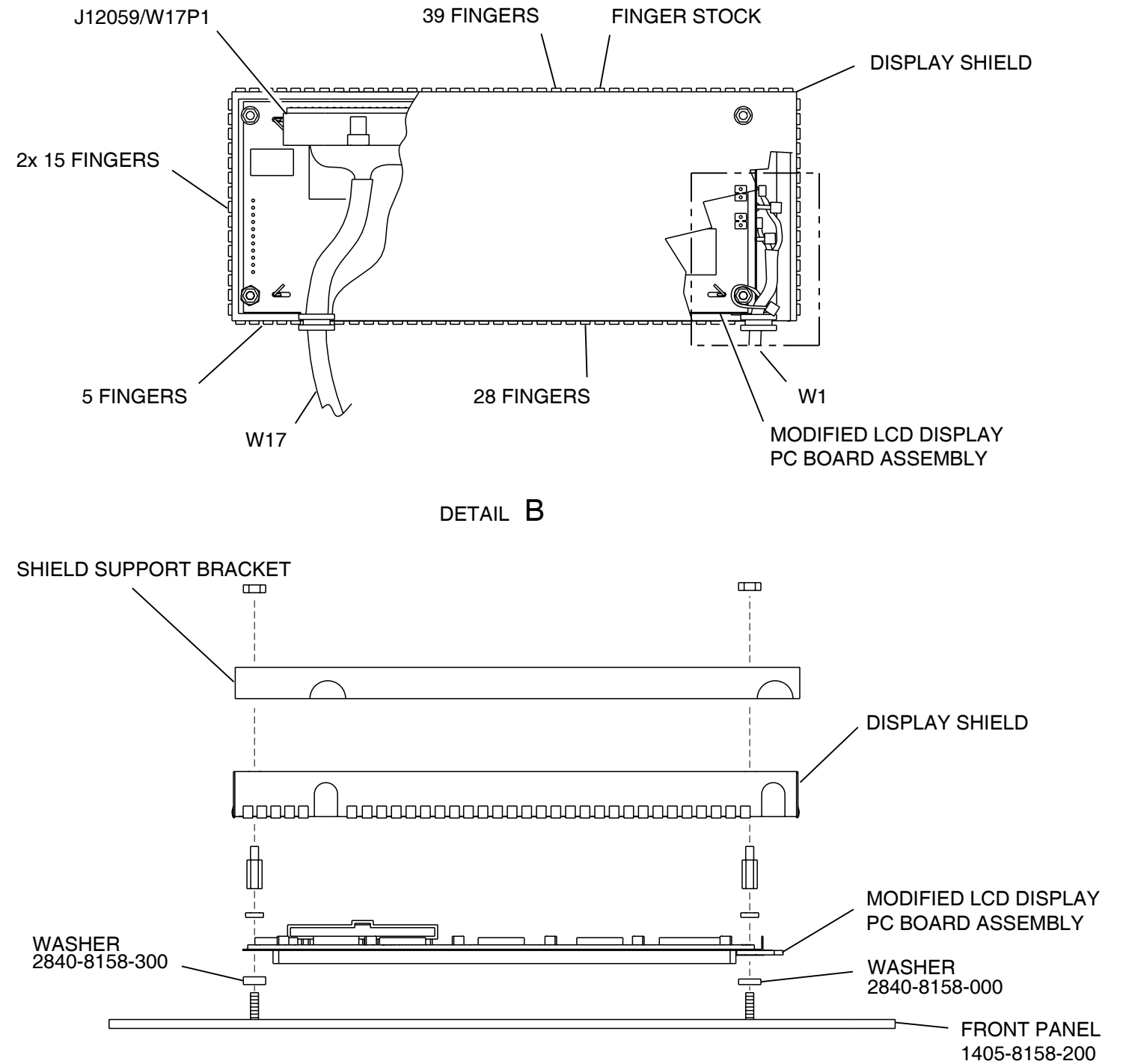
81016-2

Front Panel Assembly (Sheet 1 of 7)  
Figure 38



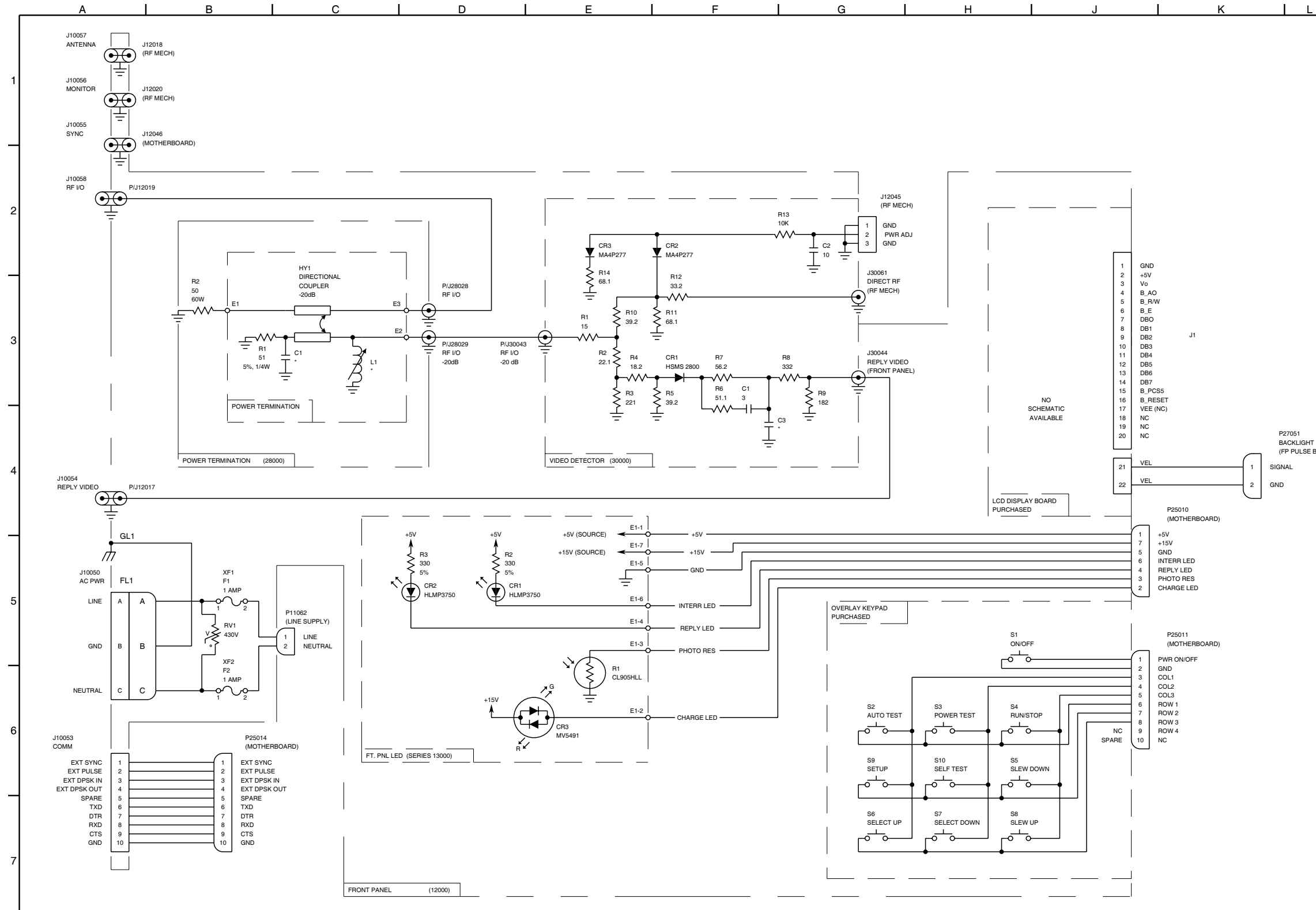
Front Panel Assembly  
(7005-8144-200-D)

81018-2



Front Panel Assembly (Sheet 2 of 7)  
Figure 38

81019-2



NOTES:  
(UNLESS OTHERWISE NOTED)

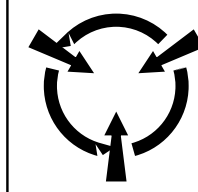
- ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES.

THIS SCHEMATIC CARRIES SERIES:

FRONT PANEL MECH	-	12000
FT. PANEL LED PCB	-	13000
POWER TERM MECH	-	28000
VIDEO DETECTOR PCB	-	30000

- ALL RESISTORS ARE 1% TOLERANCE, 1/8W.
- ALL RESISTANCE IS EXPRESSED IN OHMS. ALL CAPACITANCE IS EXPRESSED IN PICOFARADS. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.

\* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.

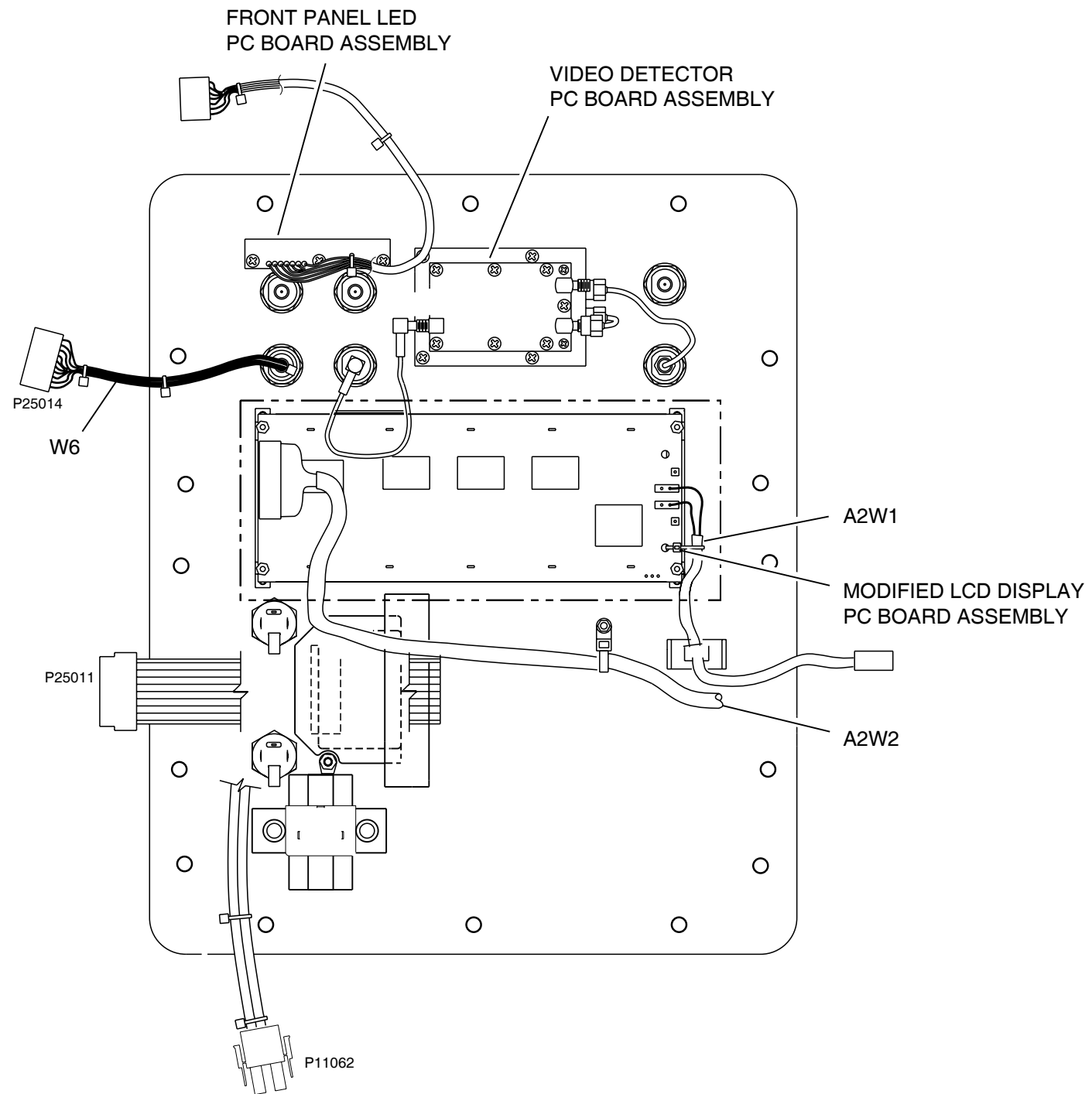


**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

Front Panel Assembly Circuit Schematic  
(0000-8144-200-A)

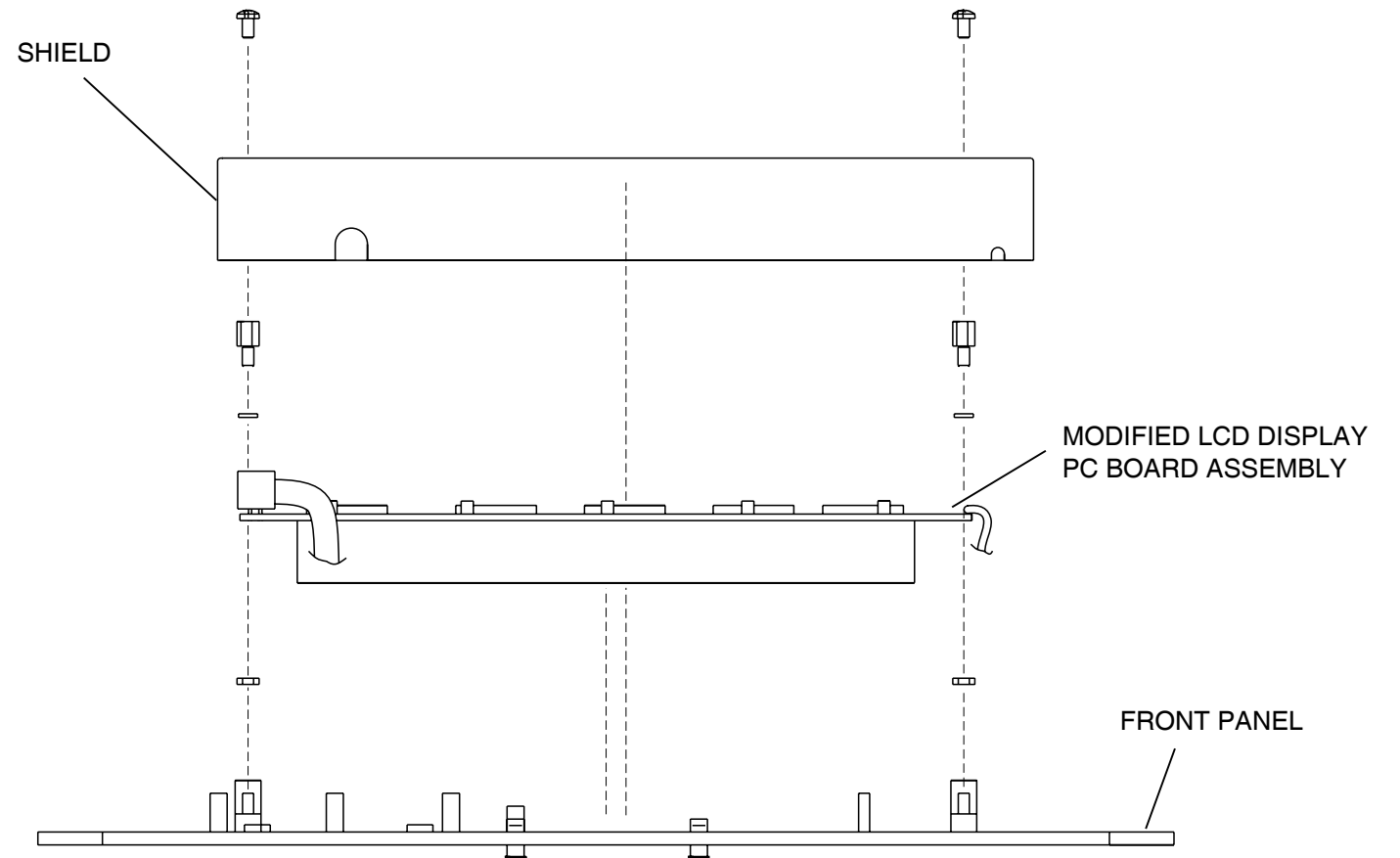
Front Panel Assembly (Sheet 3 of 7)  
Figure 38

81017-2



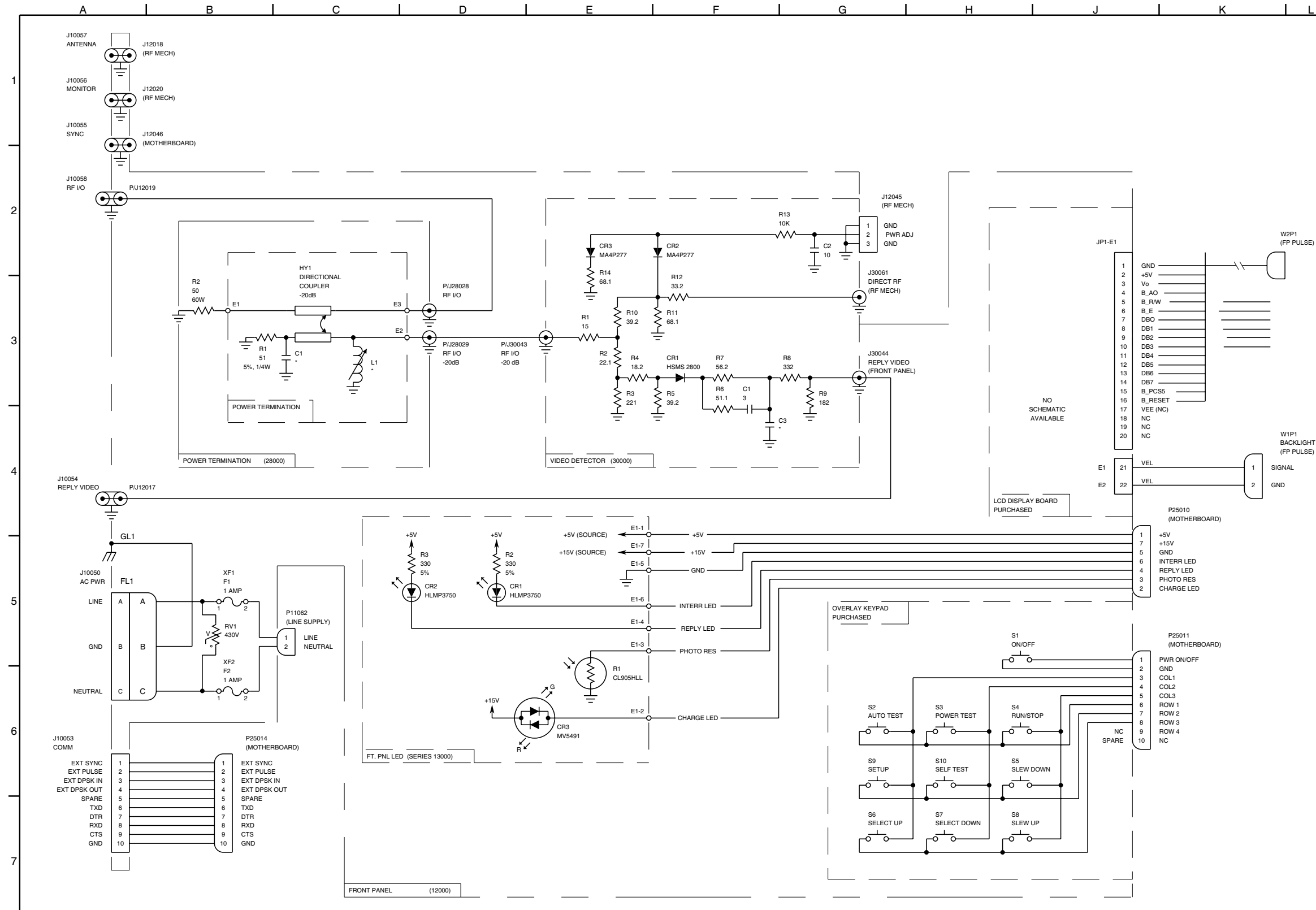
81018-2A

Front Panel Assembly  
(7005-8142-900-A, B)

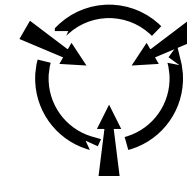


81019-2A

Front Panel Assembly (Sheet 4 of 7)  
Figure 38



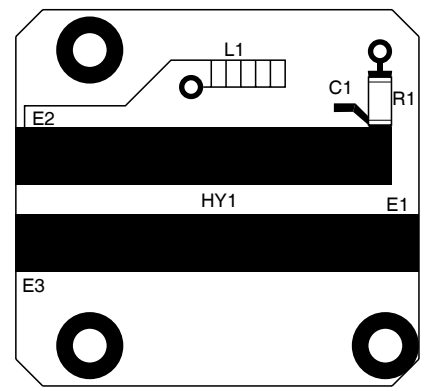
- NOTES:  
(UNLESS OTHERWISE NOTED)
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES.  
THIS SCHEMATIC CARRIES SERIES:  
FRONT PANEL MECH - 12000  
FT. PANEL LED PCB - 13000  
POWER TERM MECH - 28000  
VIDEO DETECTOR PCB - 30000
  2. ALL RESISTORS ARE 1% TOLERANCE, 1/8W.
  3. ALL RESISTANCE IS EXPRESSED IN OHMS.  
ALL CAPACITANCE IS EXPRESSED IN PICO FARADS.  
ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
- \* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



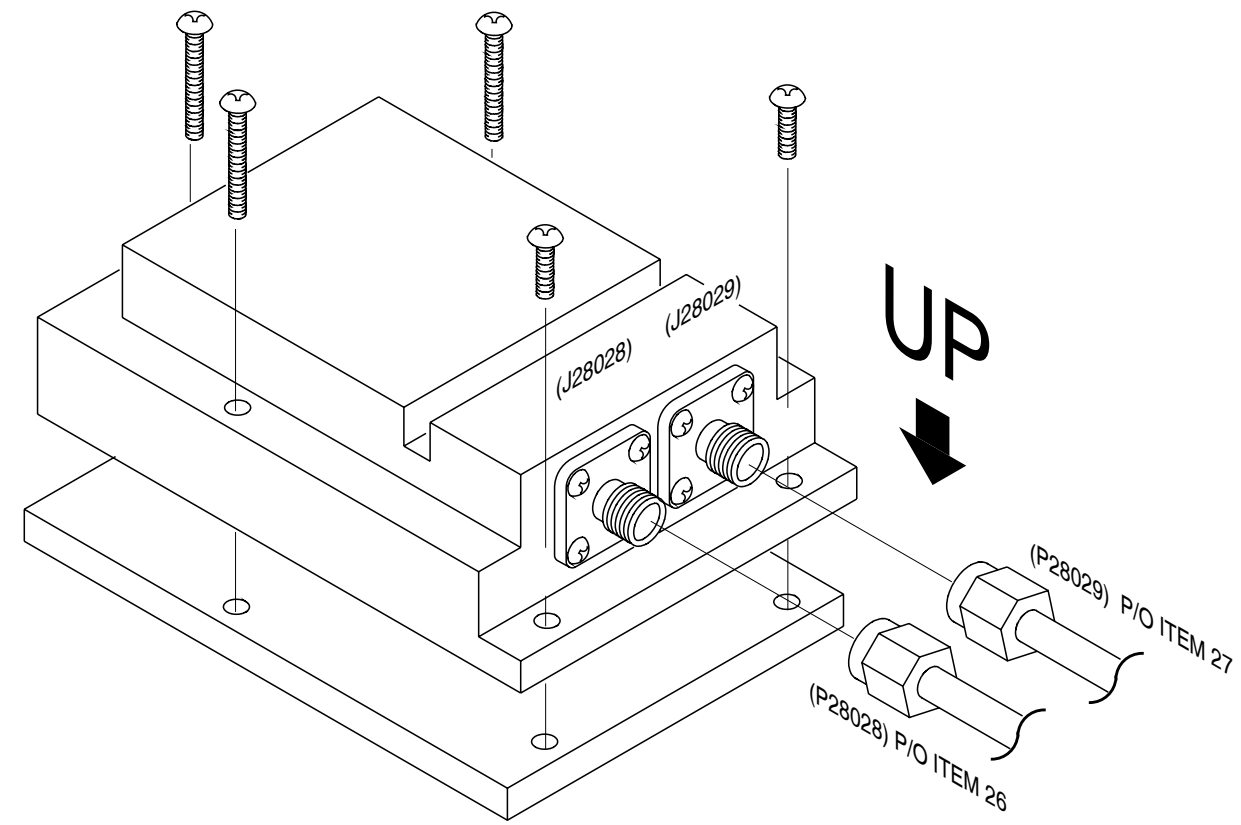
**CAUTION:**  
CONTAINS PARTS AND ASSEMBLIES  
SUSCEPTIBLE TO DAMAGE BY  
ELECTROSTATIC DISCHARGE (ESD).

Front Panel Assembly Circuit Schematic  
(0000-8142-900-A)

81017-2A  
Front Panel Assembly (Sheet 5 of 7)  
Figure 38



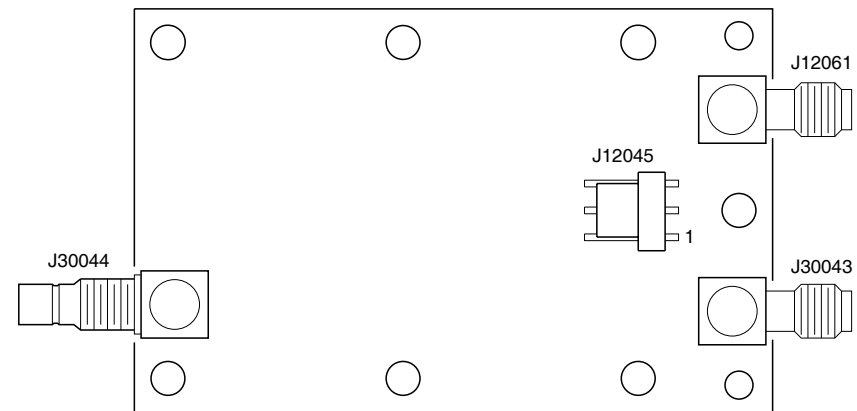
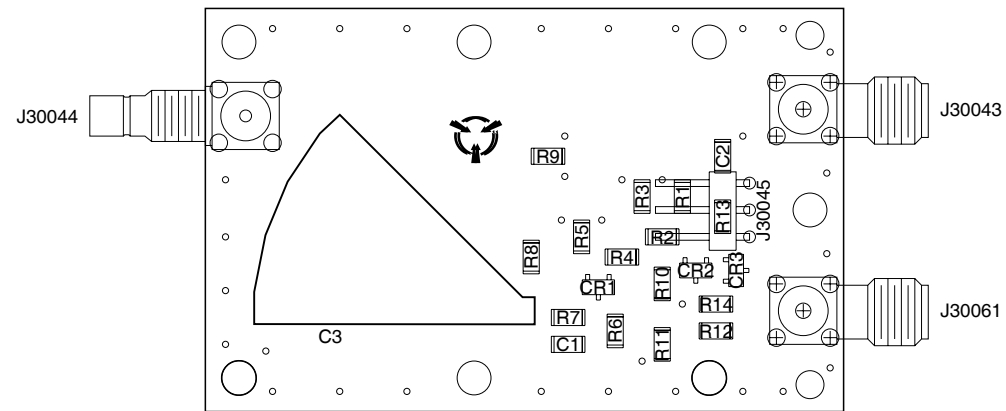
Power Termination PC Board



Power Termination Assembly  
(7005-8142-100-B3)

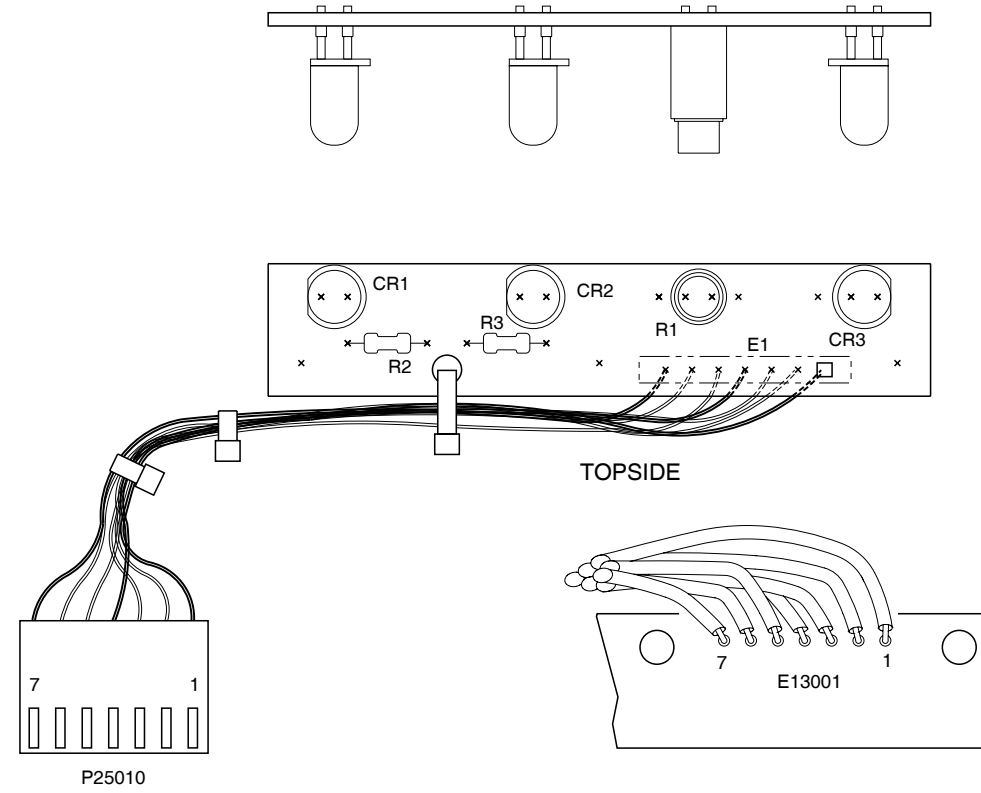
81020-2

Front Panel Assembly (Sheet 6 of 7)  
Figure 38



Video Detector PC Board Assembly  
(7010-8131-700-E1)

81021-2



Front Panel LED PC Board Assembly  
(7010-8130-300-C)

81022-2

Front Panel Assembly (Sheet 7 of 7)  
Figure 38

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