

3. Assemblies and Schematics

A. General

This section contains drawings for all Modules/Assemblies, PC Board Assemblies, Interconnect Diagrams and Circuit Schematics within the TCAS-201-2.

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).

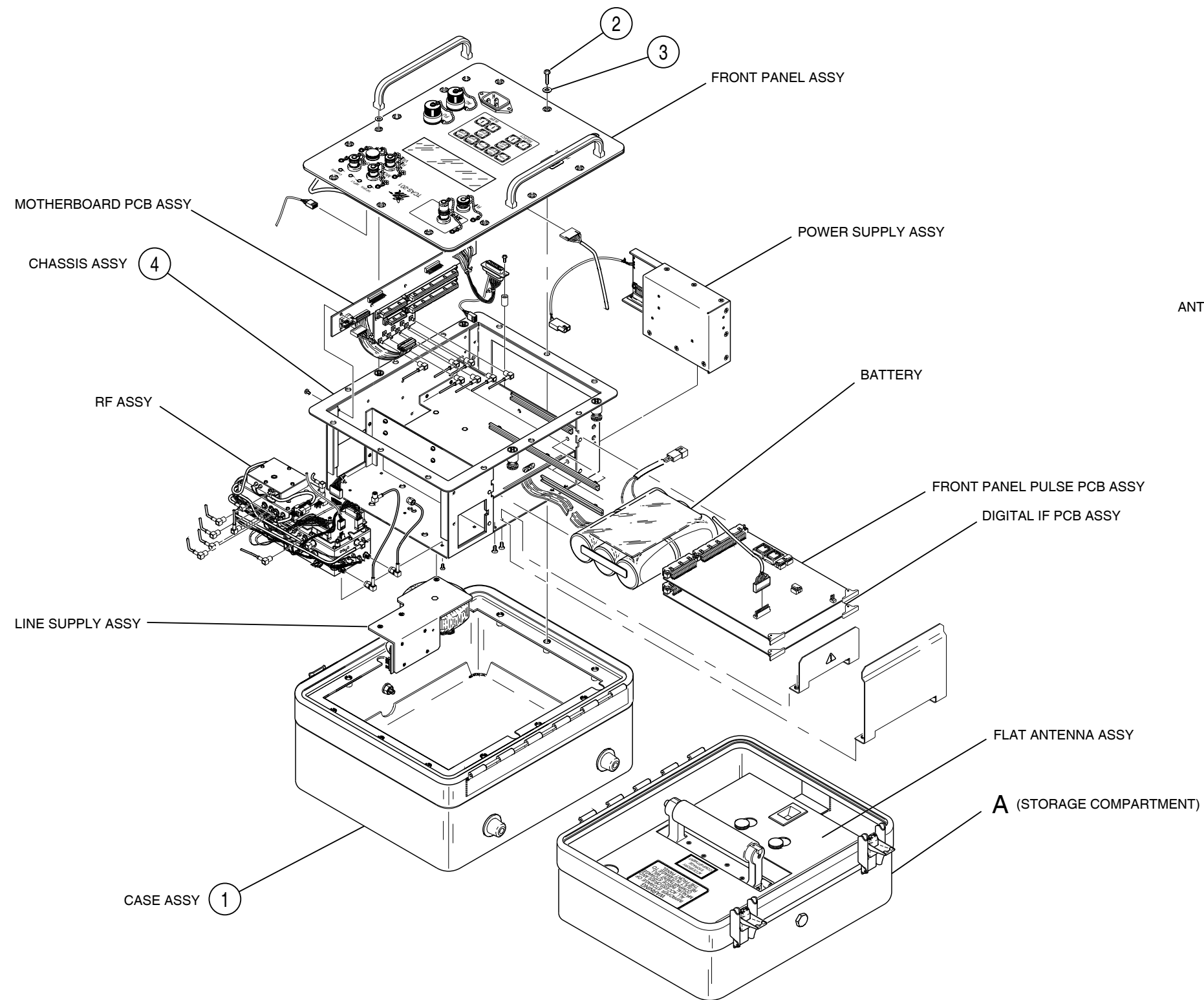
(1) Coaxial Cables

STEP	PROCEDURE
1.	Locate desired assembly on Interconnect Diagram.
2.	Locate desired coaxial cable on Interconnect Diagram. NOTE: 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.
5.	Locate reference designator of coaxial cable and continue tracing circuit.

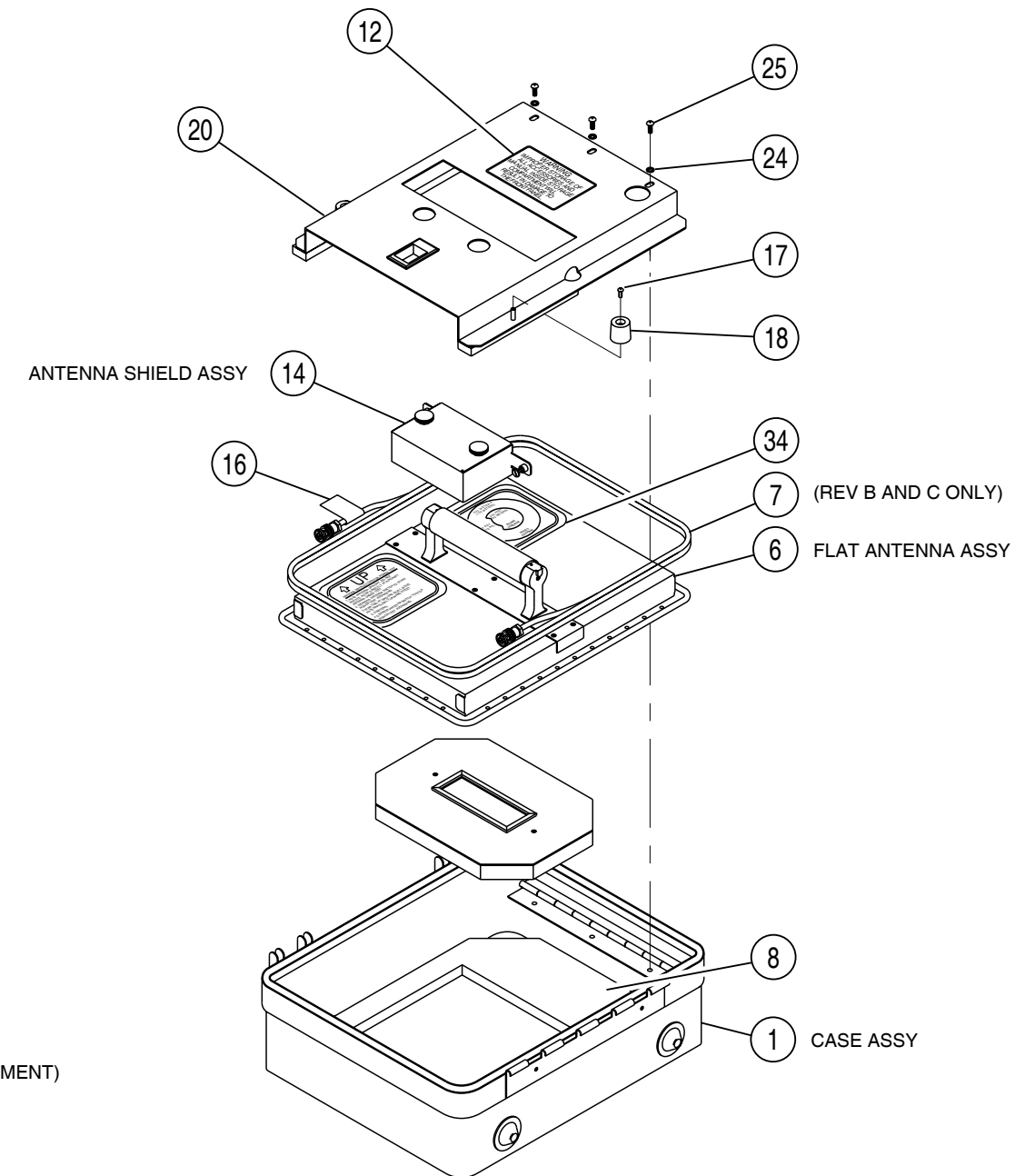
(2) Multiple Pin Connectors

STEP	PROCEDURE
1.	Locate desired module on Interconnect Diagram.
2.	Locate desired assembly multiple pin connector on Interconnect Diagram. NOTE: 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.
5.	Locate reference designator of multiple pin connector and corresponding pin number. Continue tracing circuit.

TITLE	PAGE
Composite Assy -----	3
Interconnect Diagram-----	4
Chassis Assy-----	5
Power Supply Assy -----	9
Power Supply PCB Assy -----	10
Circuit Schematic -----	11
Line Supply Assy-----	15
Line Supply PCB Assy-----	15
Circuit Schematic -----	16
Motherboard PCB Assy-----	17
Circuit Schematic -----	18
Digital IF PCB Assy-----	19
Circuit Schematic -----	21
Flat Antenna Assy-----	23
Circuit Schematic -----	24
Front Panel Pulse PCB Assy-----	25
Circuit Schematic -----	28
RF Assy-----	36
Interconnect Diagram-----	37
SSB Assy -----	38
LO Source PCB Assy-----	39
Source Module VCO PCB Assy-----	40
Circuit Schematic -----	41
Attenuator PCB Assy-----	43
Circuit Schematic-----	44
Mixer PCB Assy -----	45
Circuit Schematic-----	46
Detector Assy -----	47
Detector PCB Assy -----	47
Circuit Schematic -----	48
Analog IF Assy-----	50
Analog IF PCB Assy-----	51
Circuit Schematic -----	52
Decoder Assy -----	54
Decoder PCB Assy -----	54
Circuit Schematic -----	55
Driver PCB Assy-----	57
Circuit Schematic -----	58
Front Panel Assy-----	59
Circuit Schematic -----	65
Power Termination Assy -----	67
Video Detector PCB Assy-----	68
Front Panel LED PCB Assy-----	69



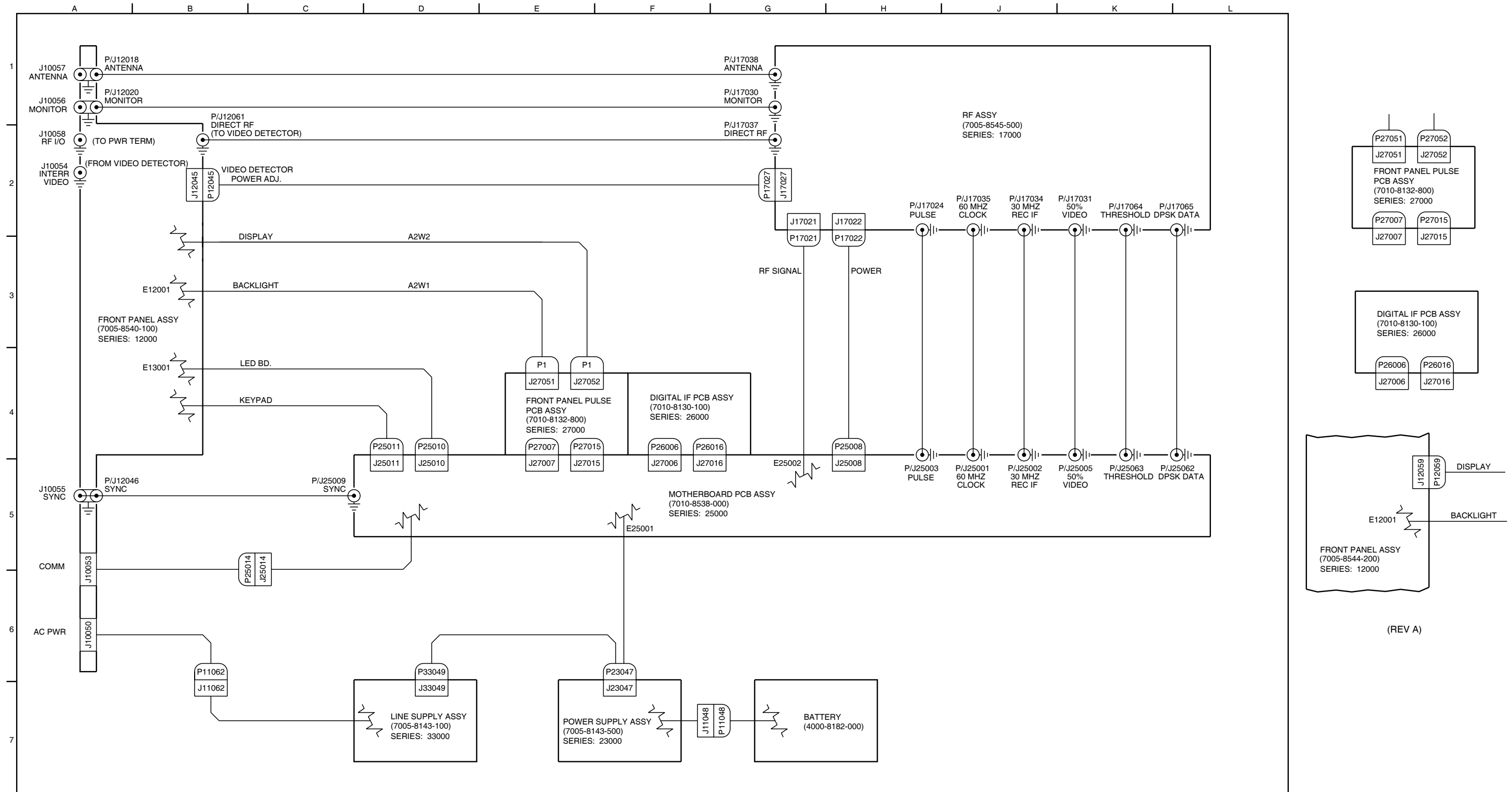
(7003-8545-600-D1)



DETAIL A

Figure 34 Composite Assy (Sheet 1 of 2)

8545200M

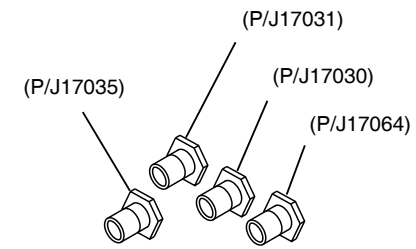


(REV A)

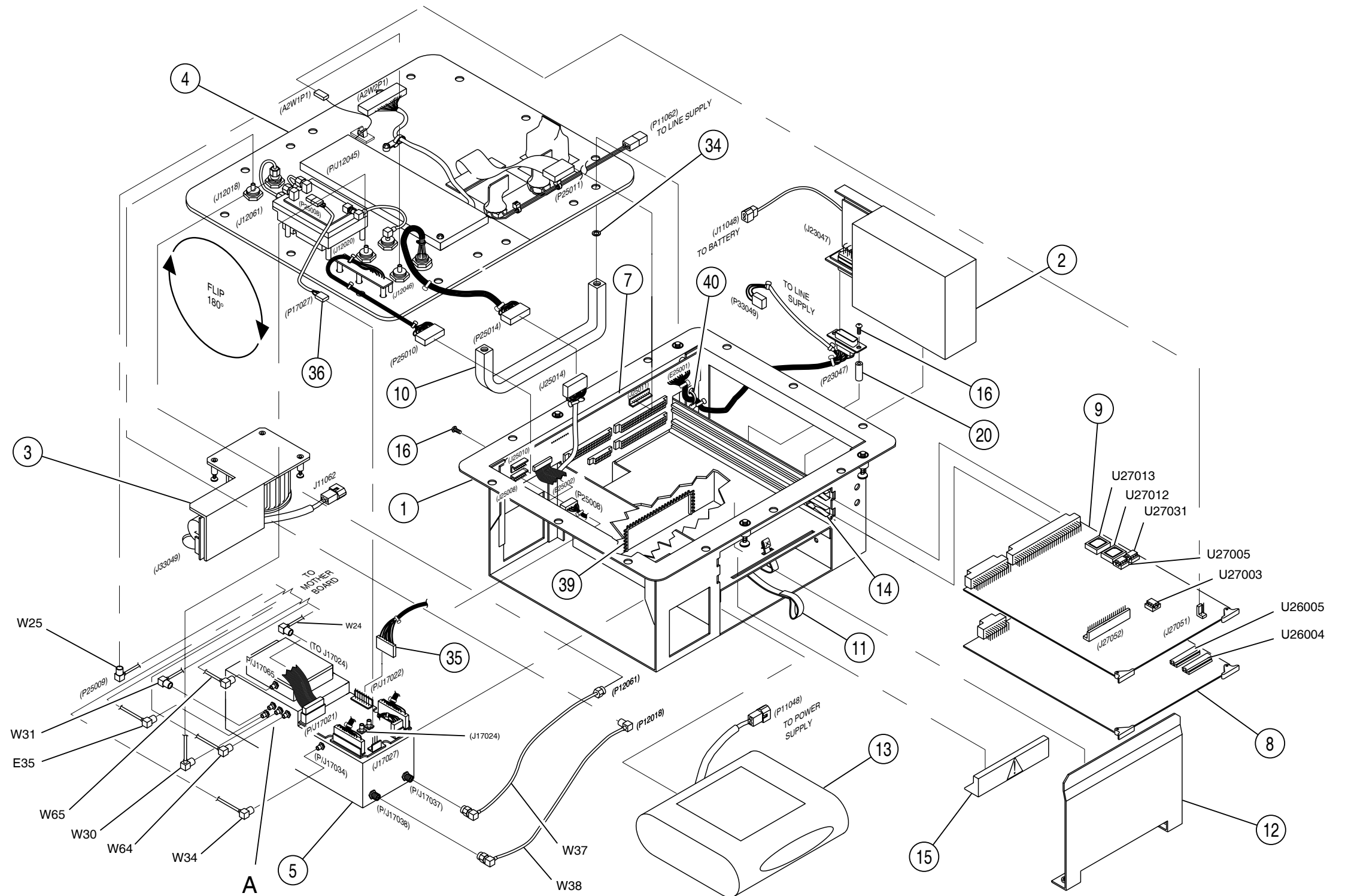
85452001

(0000-8545-600-B)

Figure 34 Composite Assy (Sheet 2 of 2)
(Interconnect Diagram)



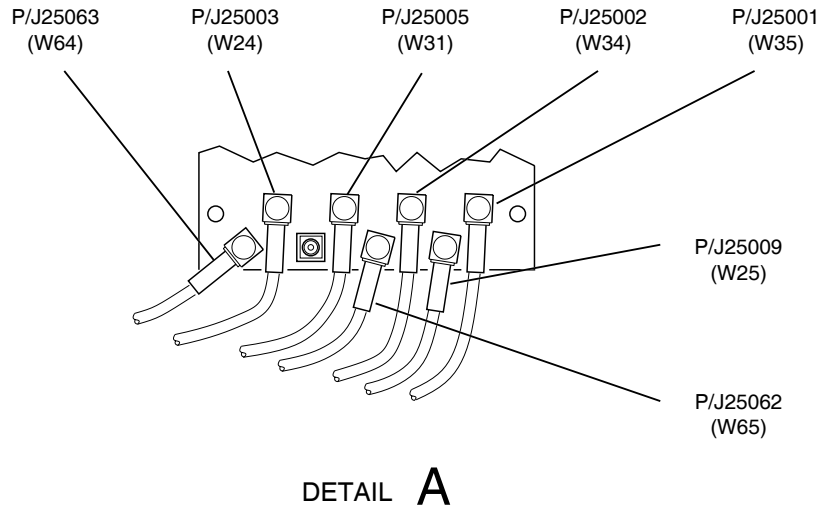
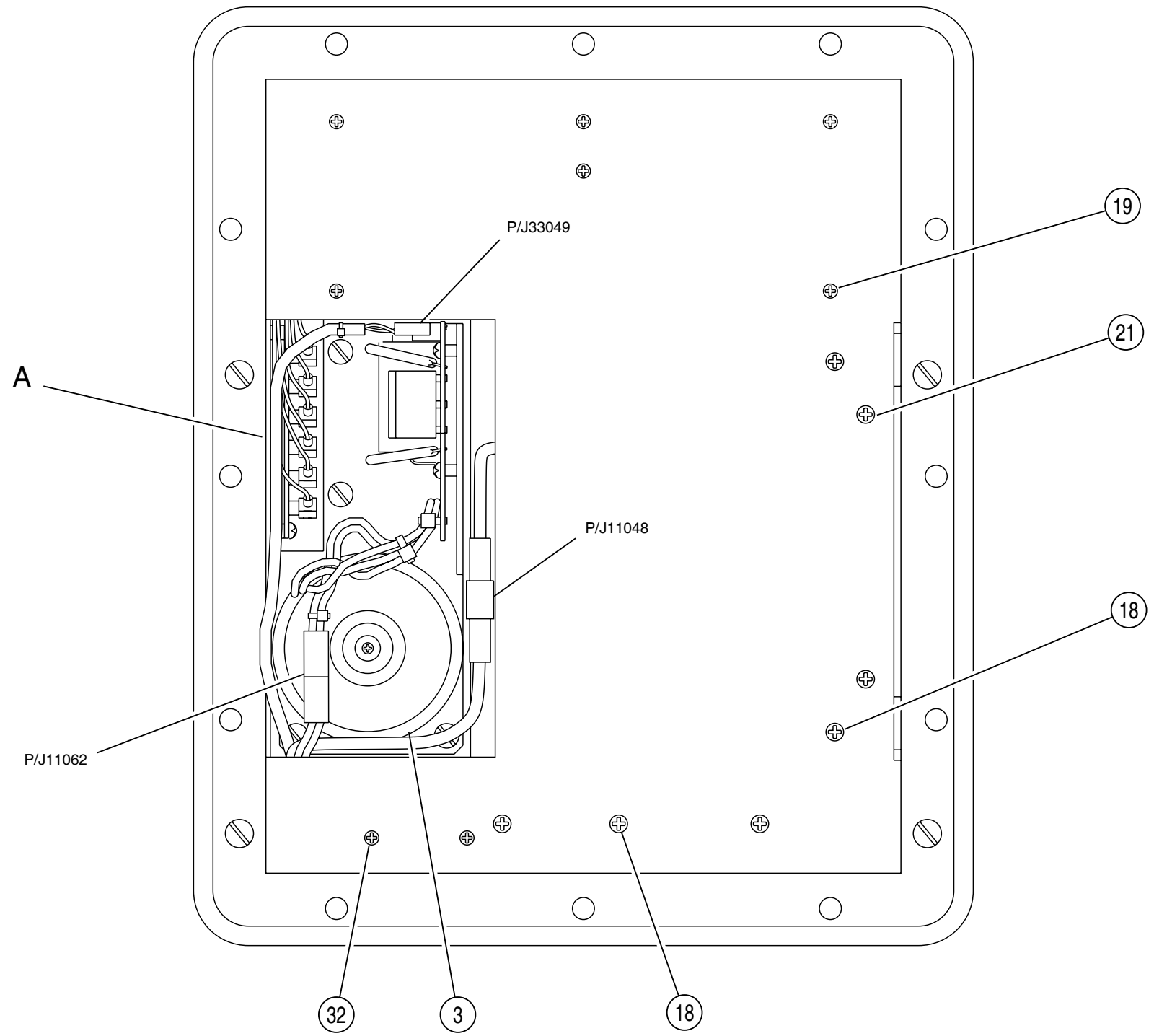
DETAIL A



(7005-8544-300-E)

Figure 35 Chassis Assy (Sheet 1 of 4)

085M-20

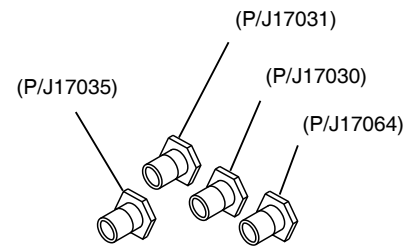


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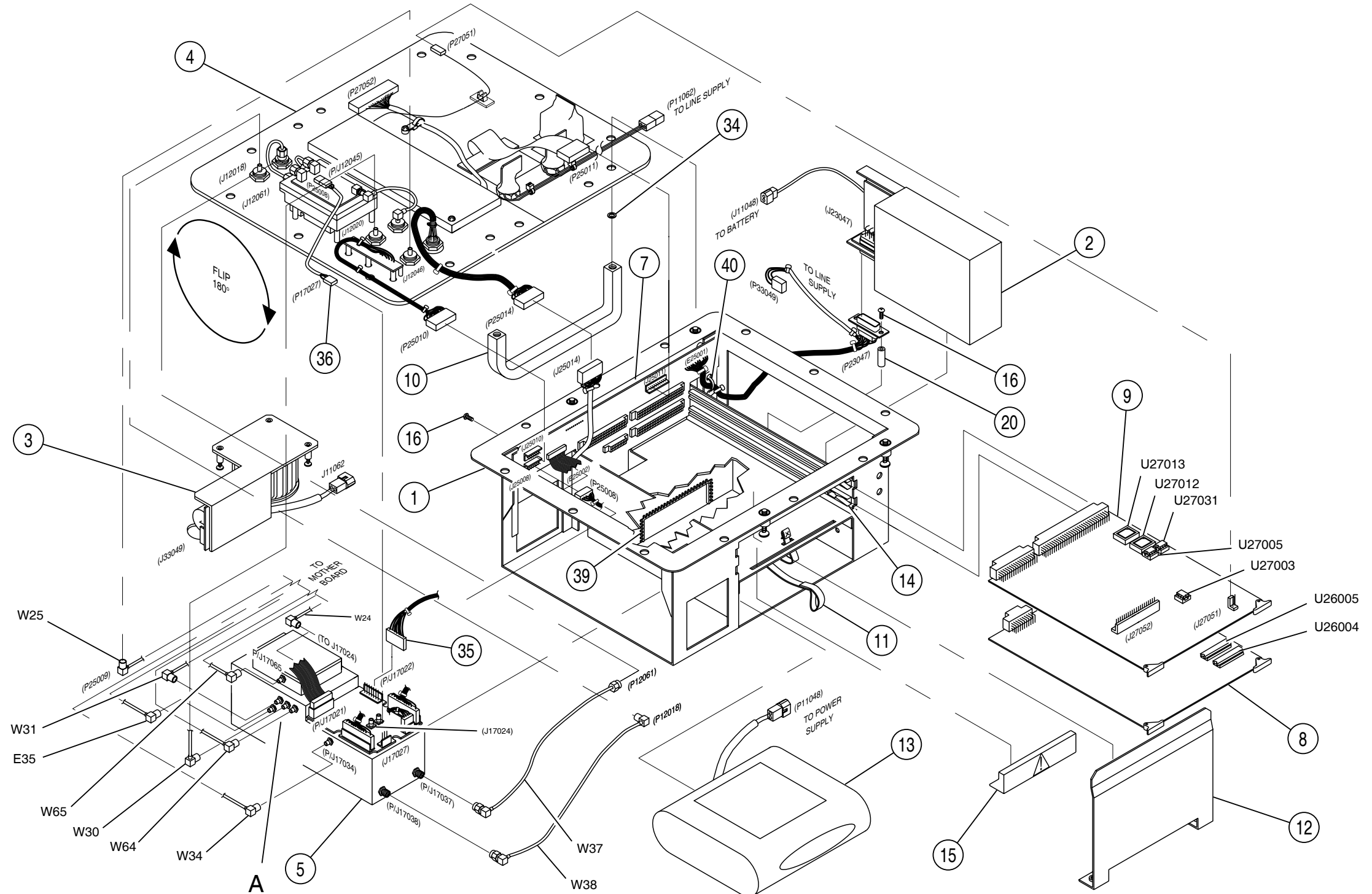
085M-21

(7005-8544-300-E)

Figure 35 Chassis Assy (Sheet 2 of 4)



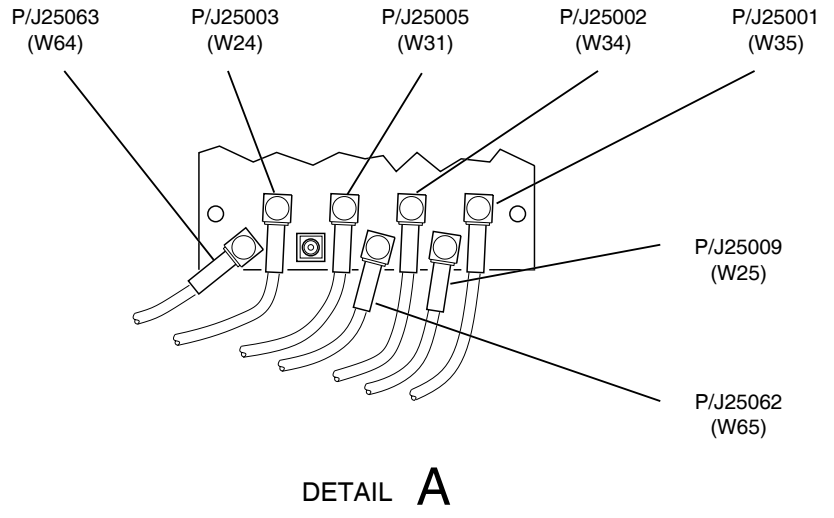
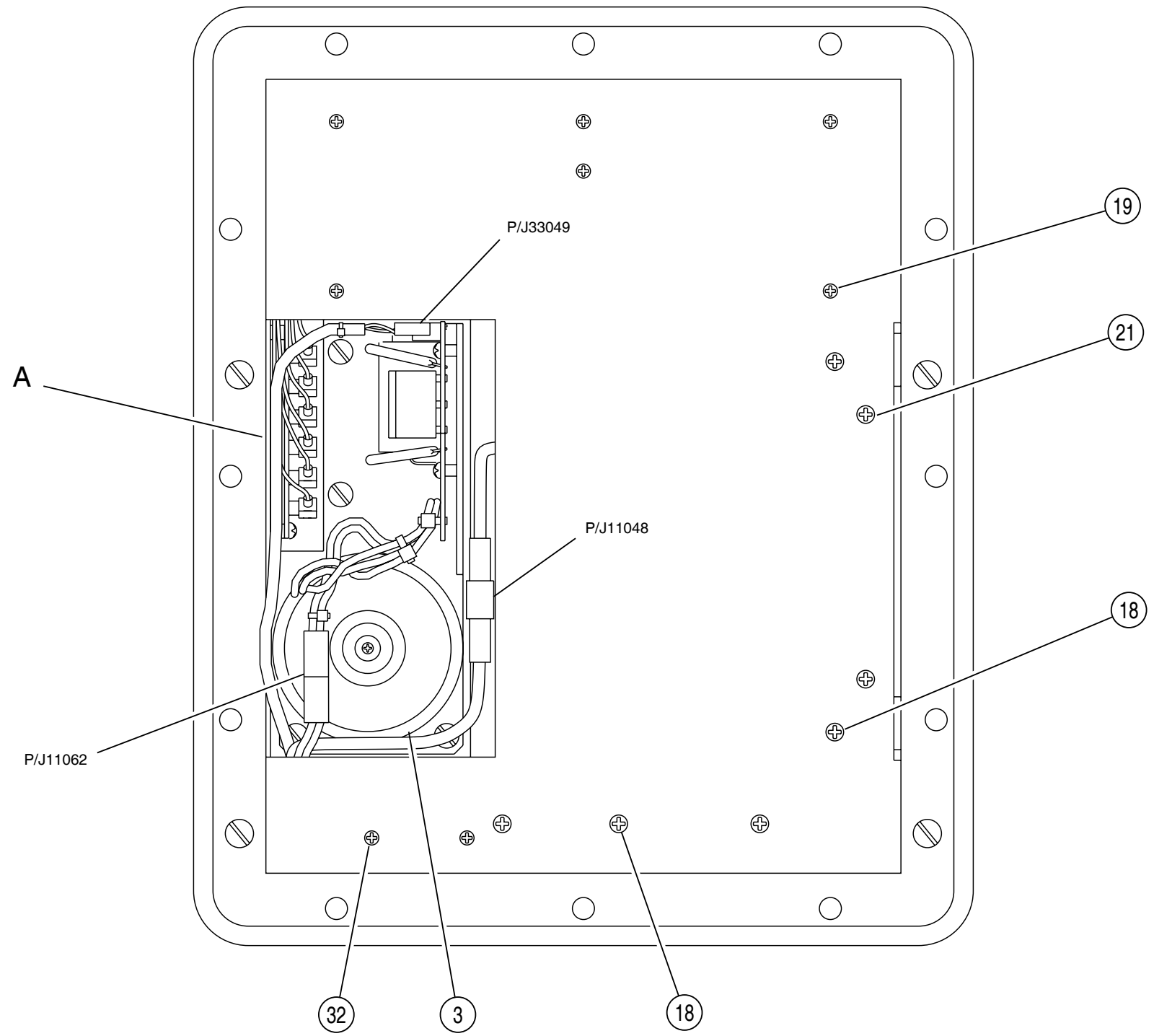
DETAIL A



(7005-8540-600-C)

Figure 35 Chassis Assy (Sheet 3 of 4)

085M-22

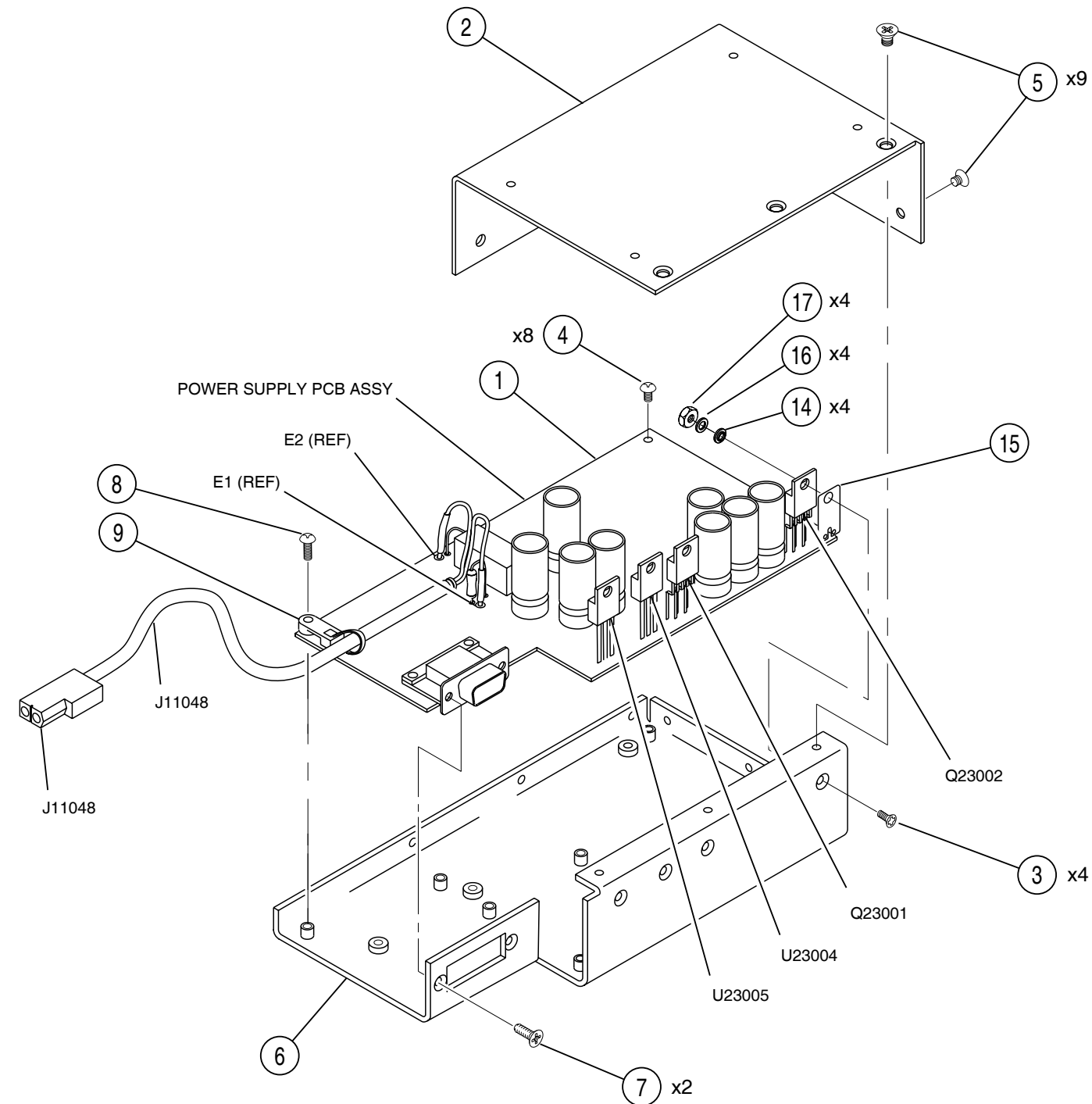


DETAIL A

(7005-8540-600-C)

Figure 35 Chassis Assy (Sheet 4 of 4)

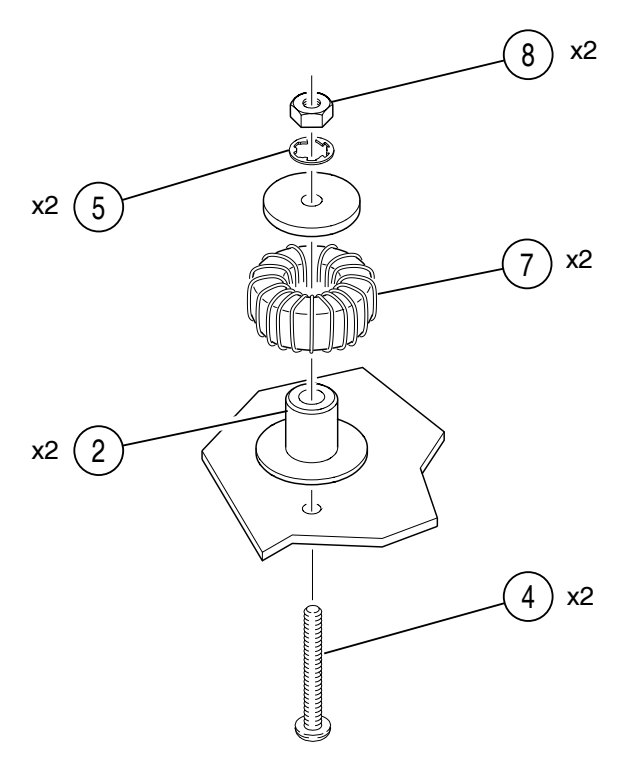
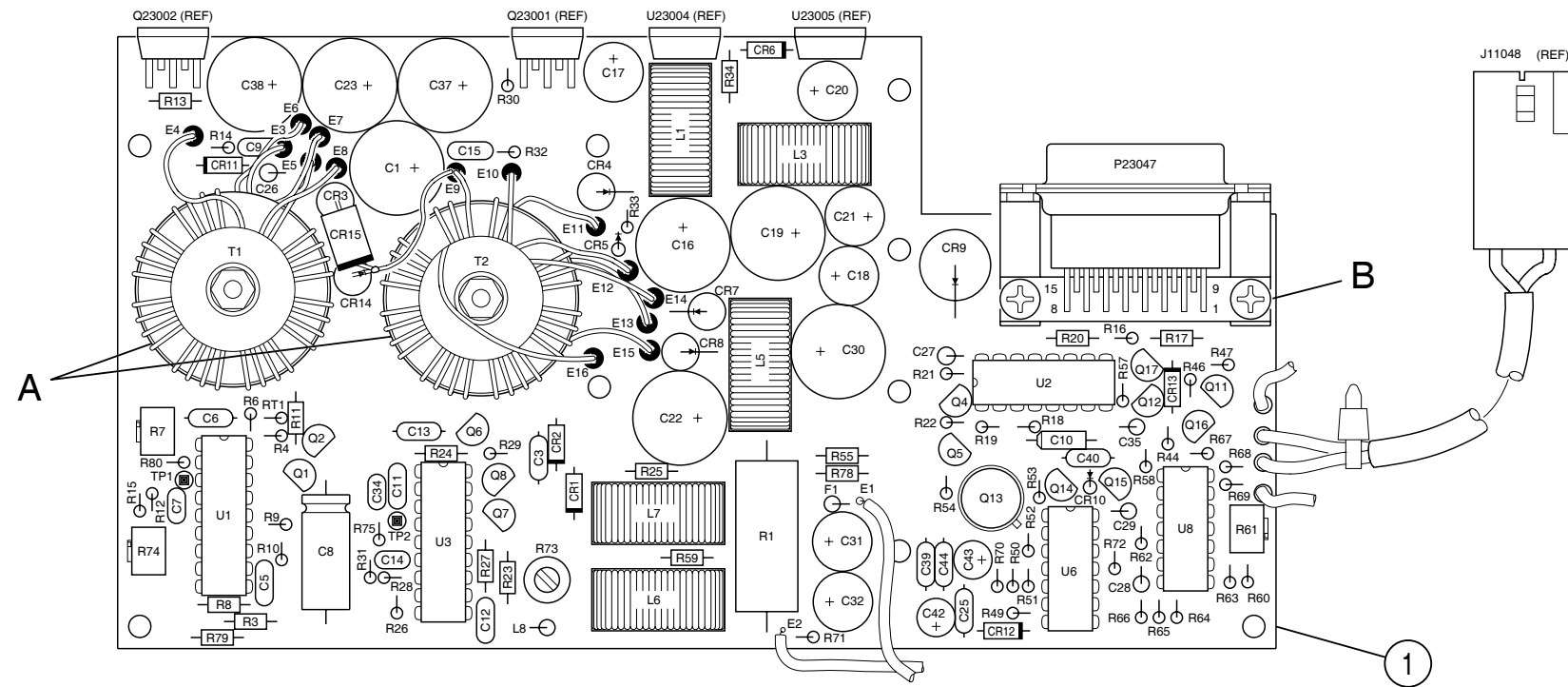
085M-21



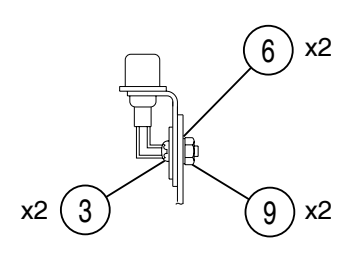
(7005-8143-500-E)

Figure 36 Power Supply Assy (Sheet 1 of 6)

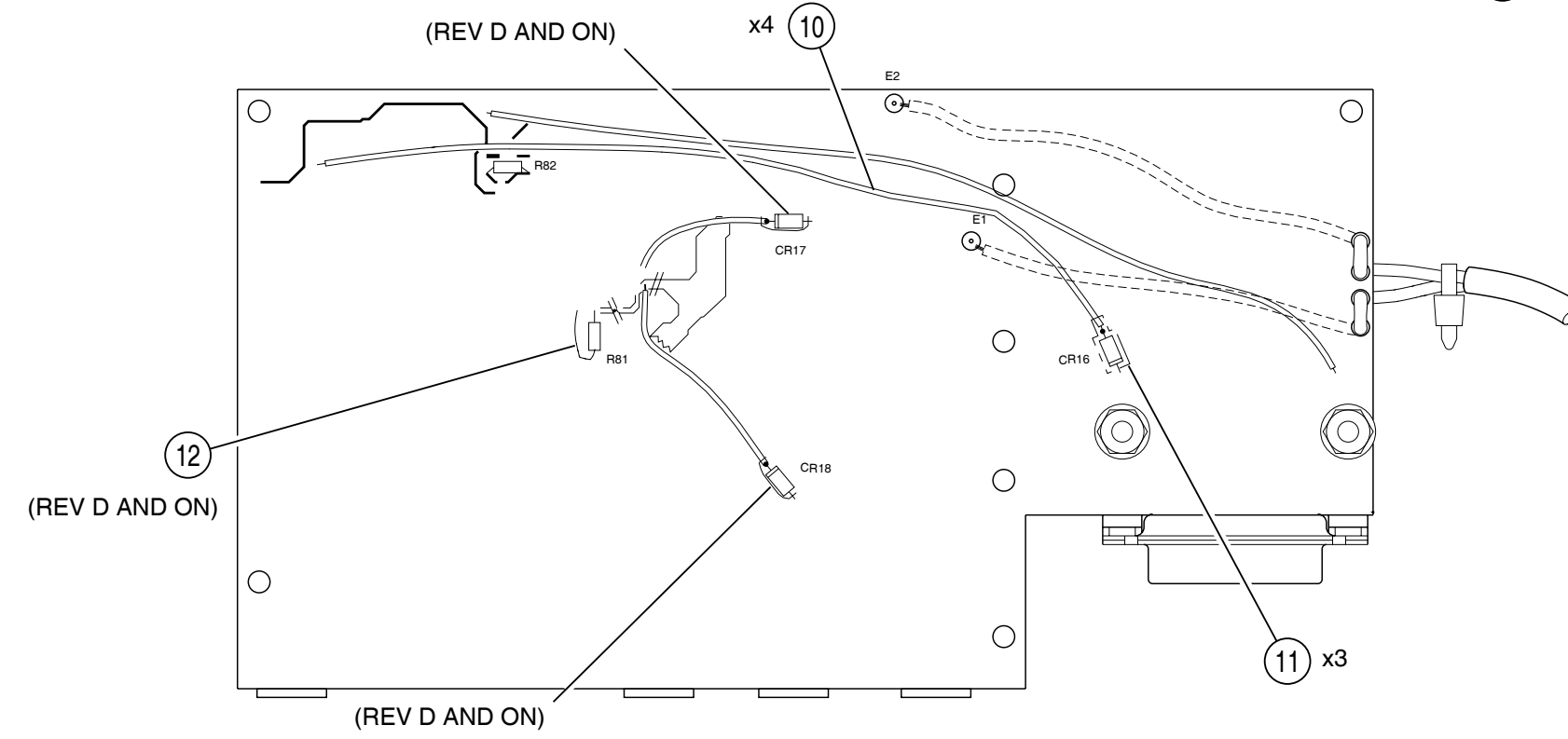
8143500M



DETAIL A



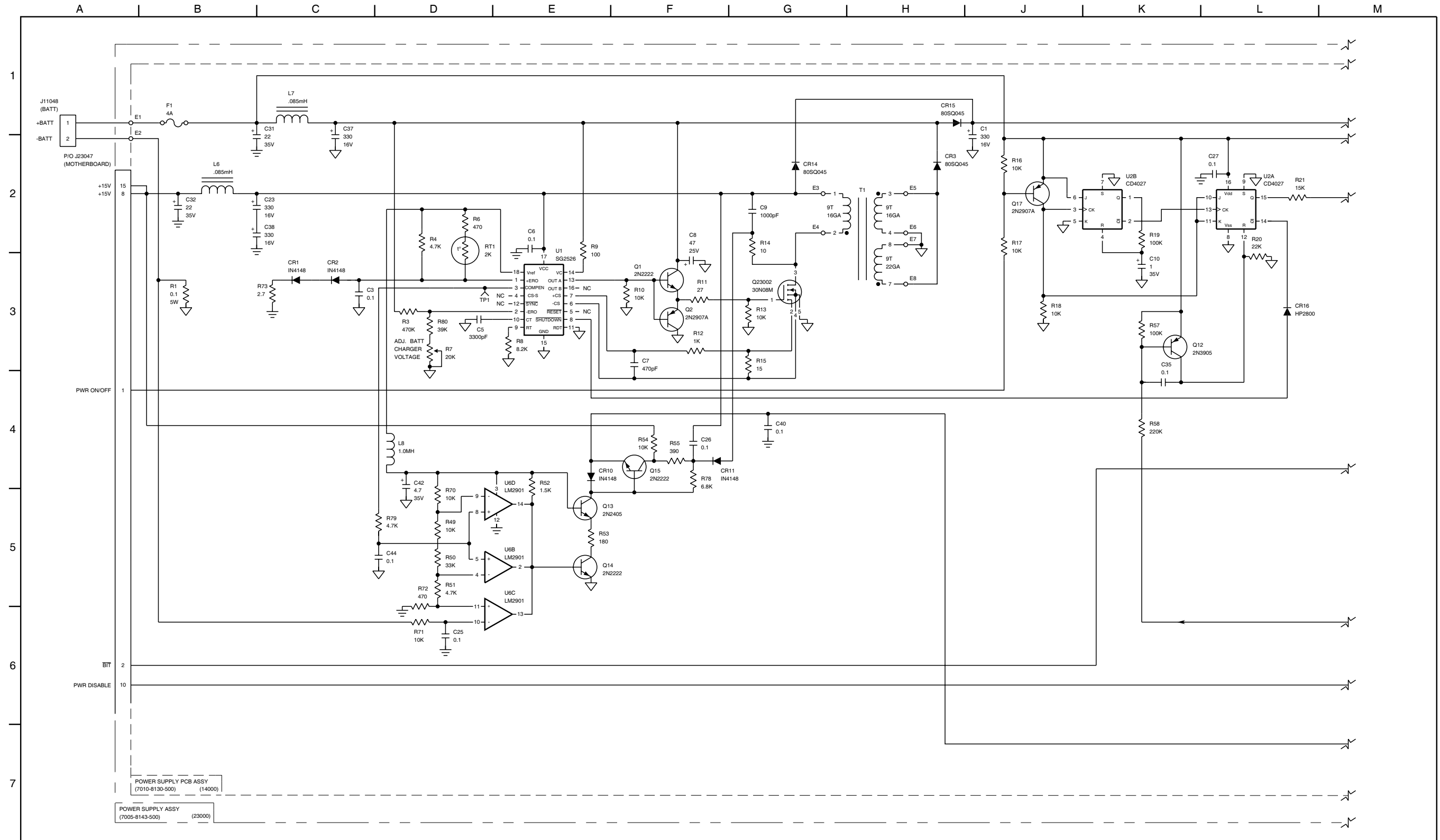
DETAIL B



(7010-8130-500-E)

Figure 36 Power Supply Assy (Sheet 2 of 6)
(Power Supply PCB Assy)

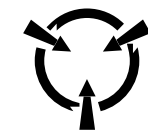
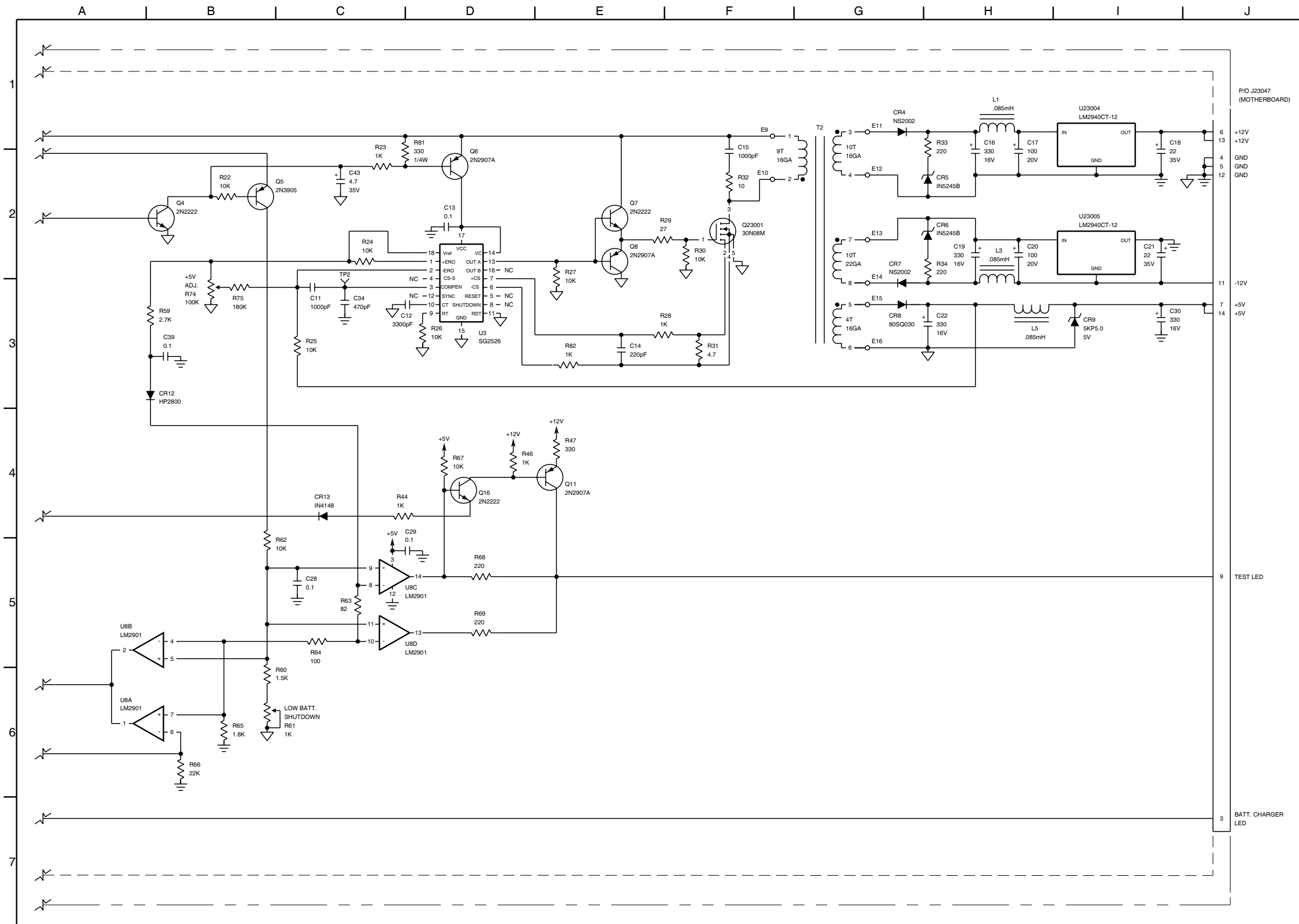
8130500P



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(0000-8140-500-C)

Figure 36 Power Supply Assy (Sheet 3 of 6)
(Circuit Schematic - Sheet 1 of 4)



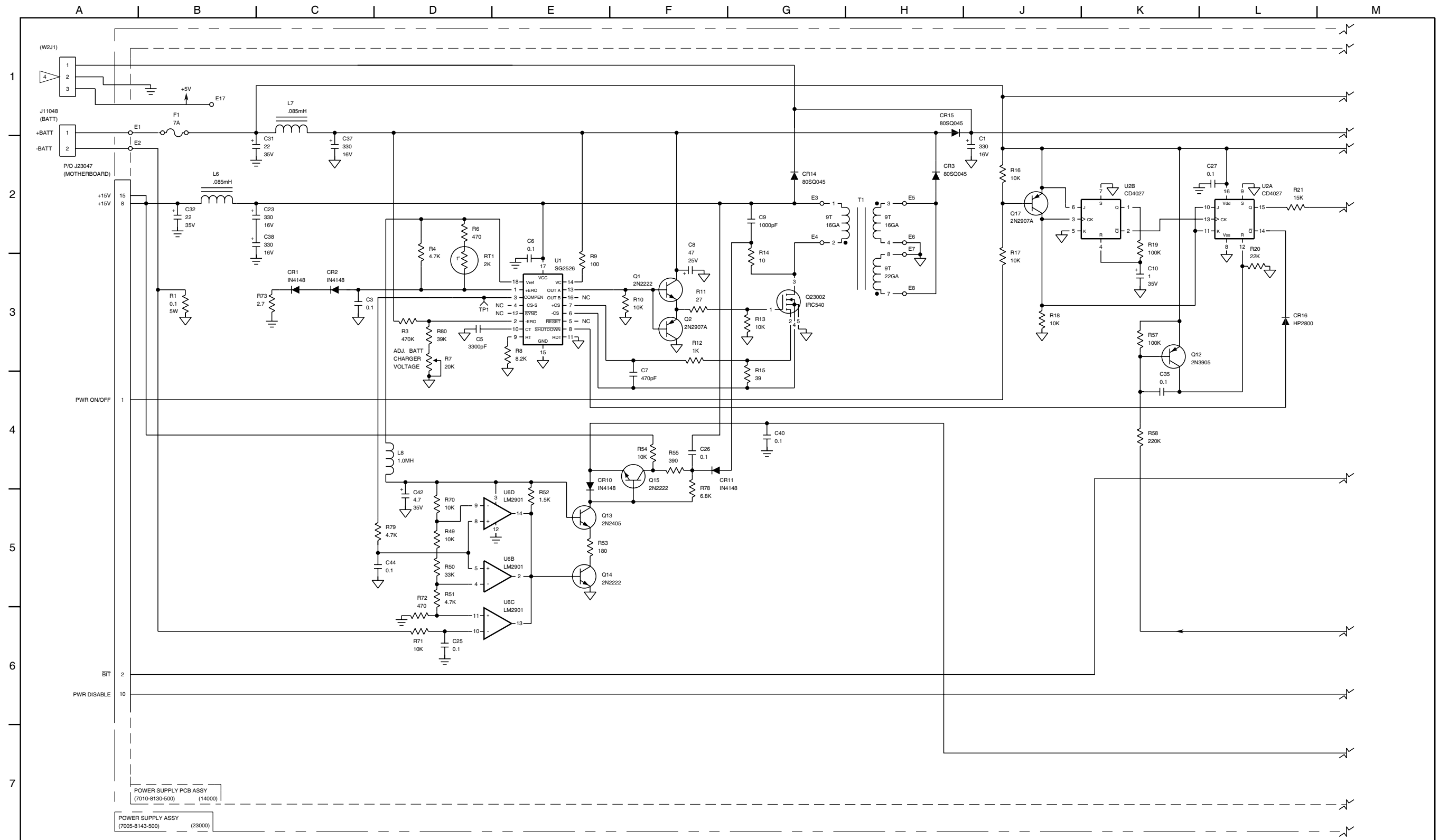
CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

- NOTES:
(UNLESS OTHERWISE SPECIFIED)
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7005-8140-500 23000 (e.g., J1 IS J23001)
7010-8130-500 14000 (e.g., R1 IS R14001)
 2. ALL RESISTORS ARE 1/8W, 5% TOLERANCE.
 3. ALL RESISTANCE IS EXPRESSED IN OHMS.
 4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.

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(0000-8140-500-C)

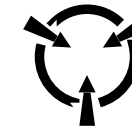
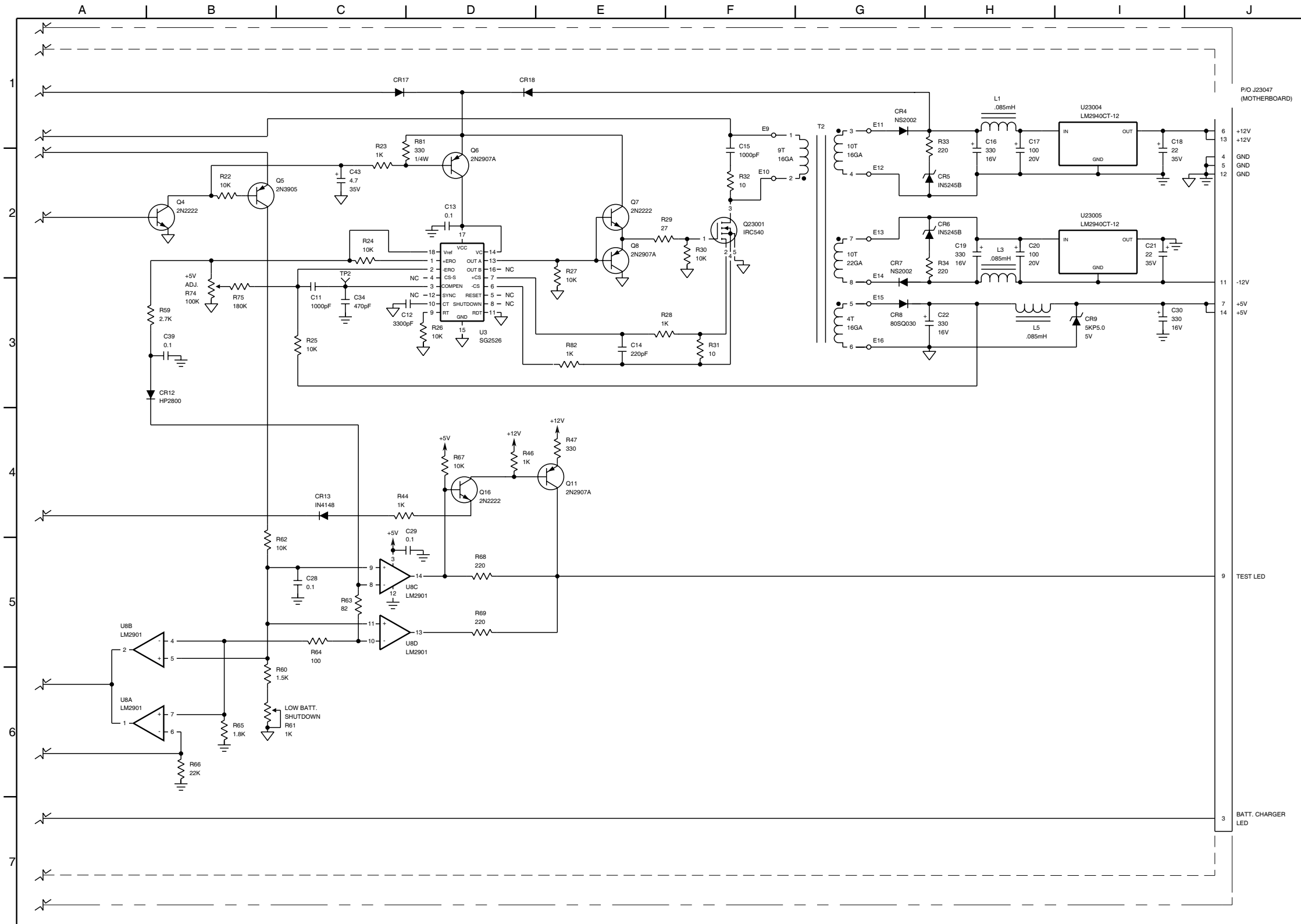
Figure 36 Power Supply Assy (Sheet 4 of 6)
(Circuit Schematic - Sheet 2 of 4)



085M-03

(0000-8140-500-C)

Figure 36 Power Supply Assy (Sheet 5 of 6)
(Circuit Schematic - Sheet 3 of 4)



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

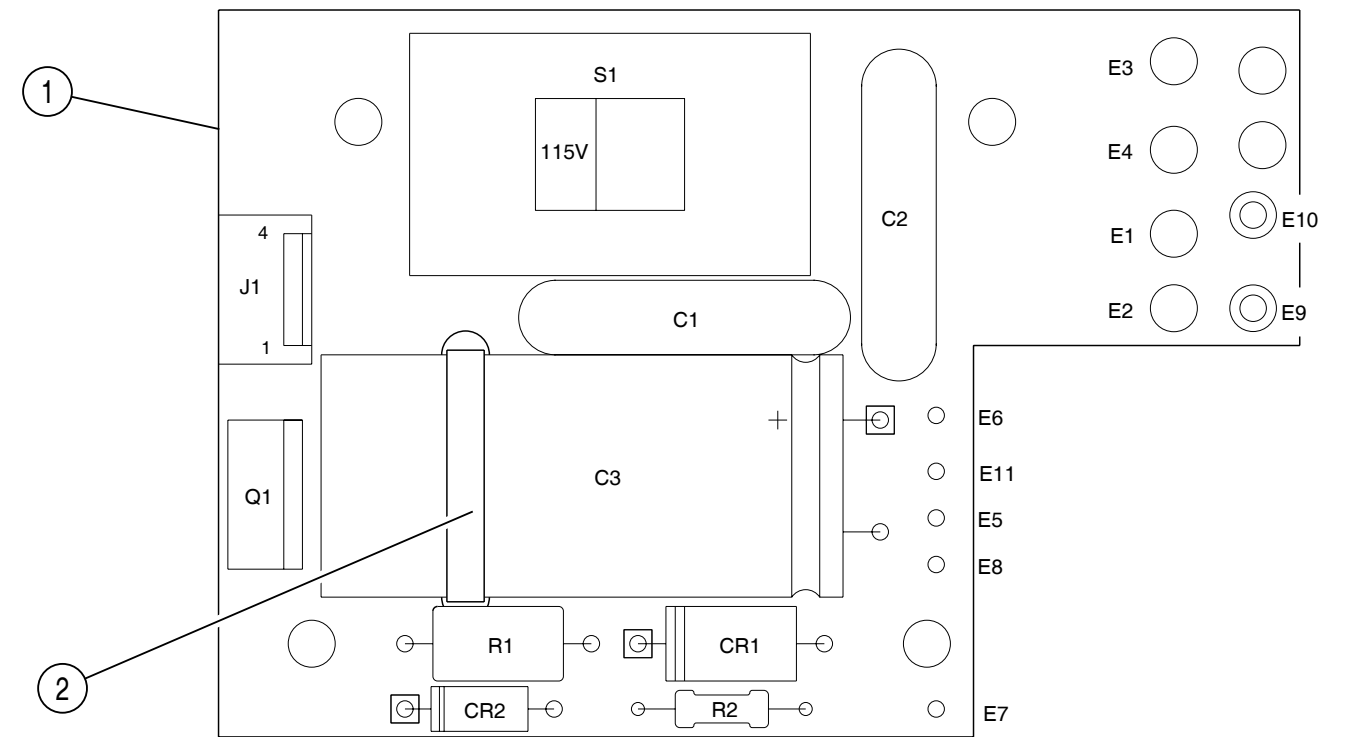
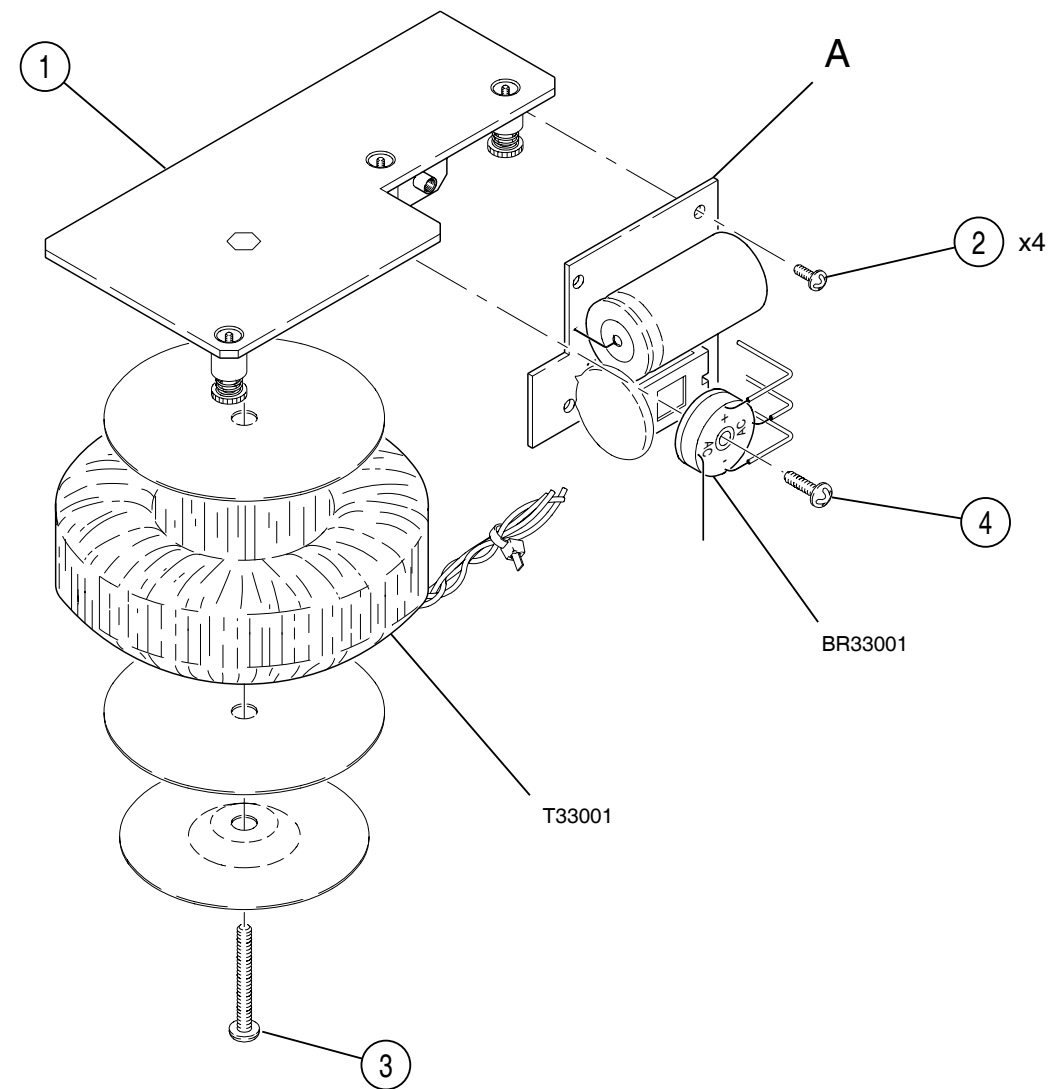
NOTES:
(UNLESS OTHERWISE SPECIFIED)

1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7005-8140-500 23000 (e.g., J1 IS J23001)
7010-8130-500 14000 (e.g., R1 IS R14001)
2. ALL RESISTORS ARE 1/8W, 5% TOLERANCE.
3. ALL RESISTANCE IS EXPRESSED IN OHMS.
4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.

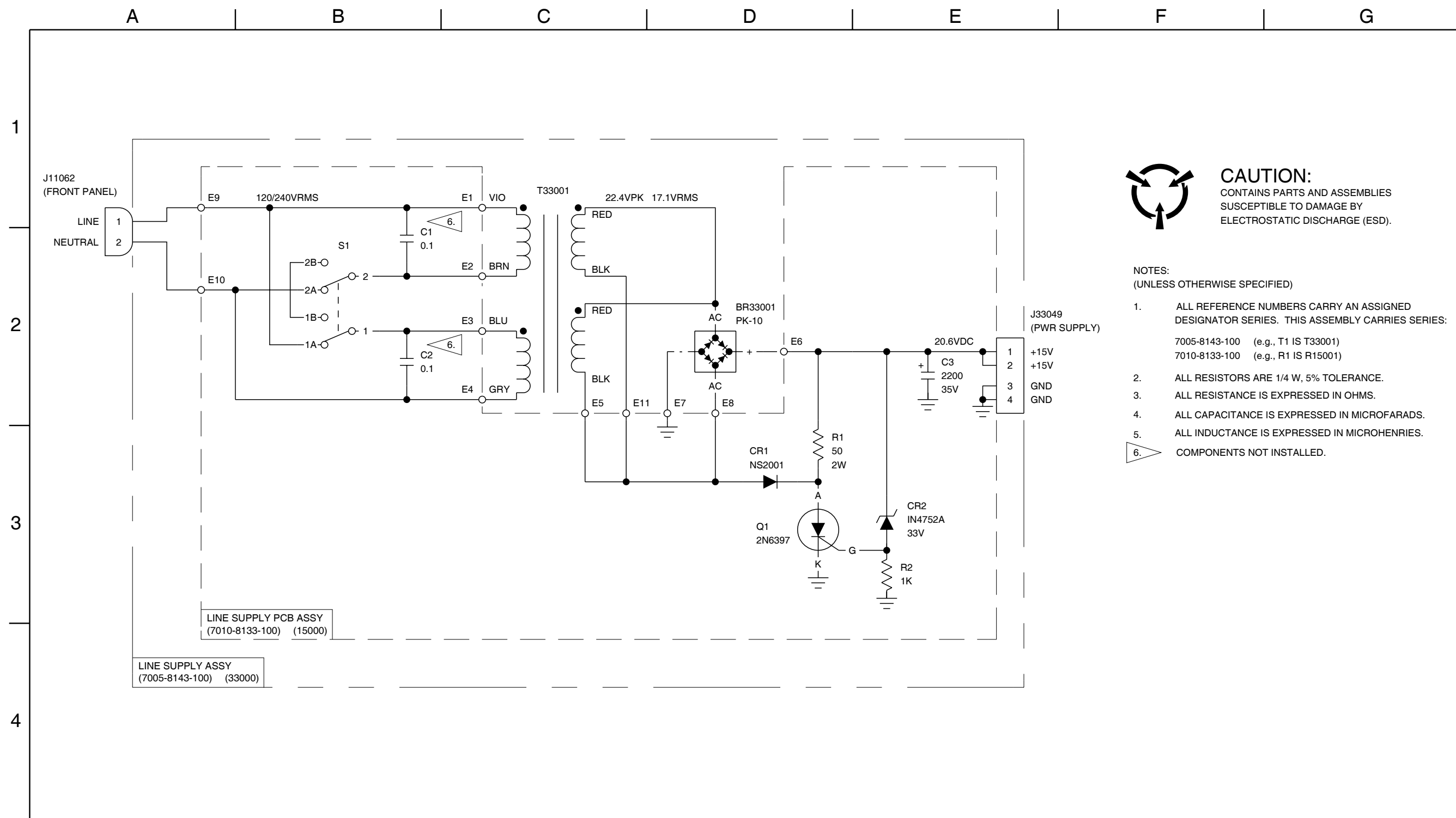
085M-04

(0000-8140-500-C)

Figure 36 Power Supply Assy (Sheet 6 of 6)
(Circuit Schematic - Sheet 4 of 4)



DETAIL A
LINE SUPPLY PCB ASSY (A1)



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

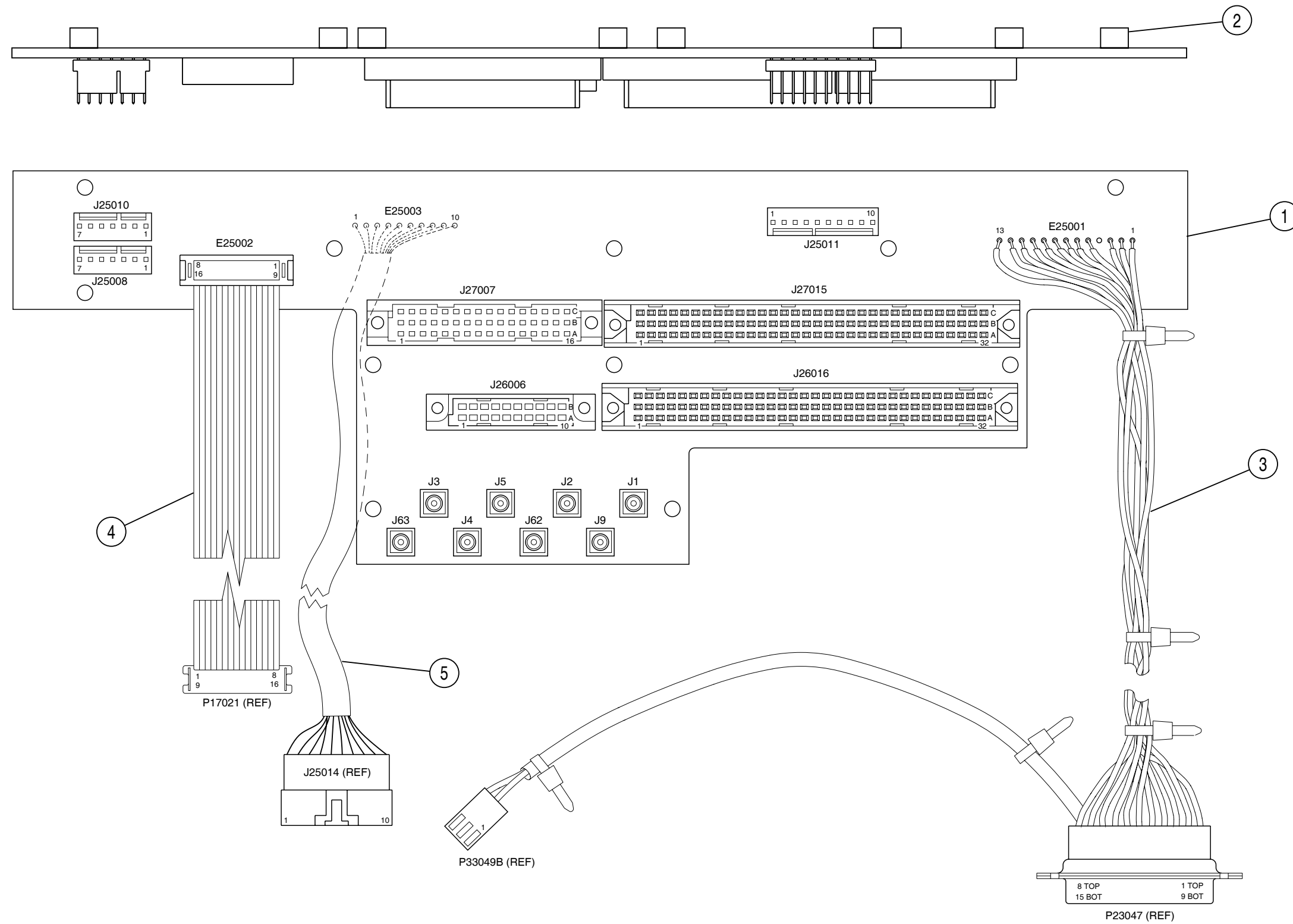
NOTES:
(UNLESS OTHERWISE SPECIFIED)

1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7005-8143-100 (e.g., T1 IS T33001)
7010-8133-100 (e.g., R1 IS R15001)
2. ALL RESISTORS ARE 1/4 W, 5% 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.

8143100S

(0000-8140-500-C)

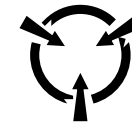
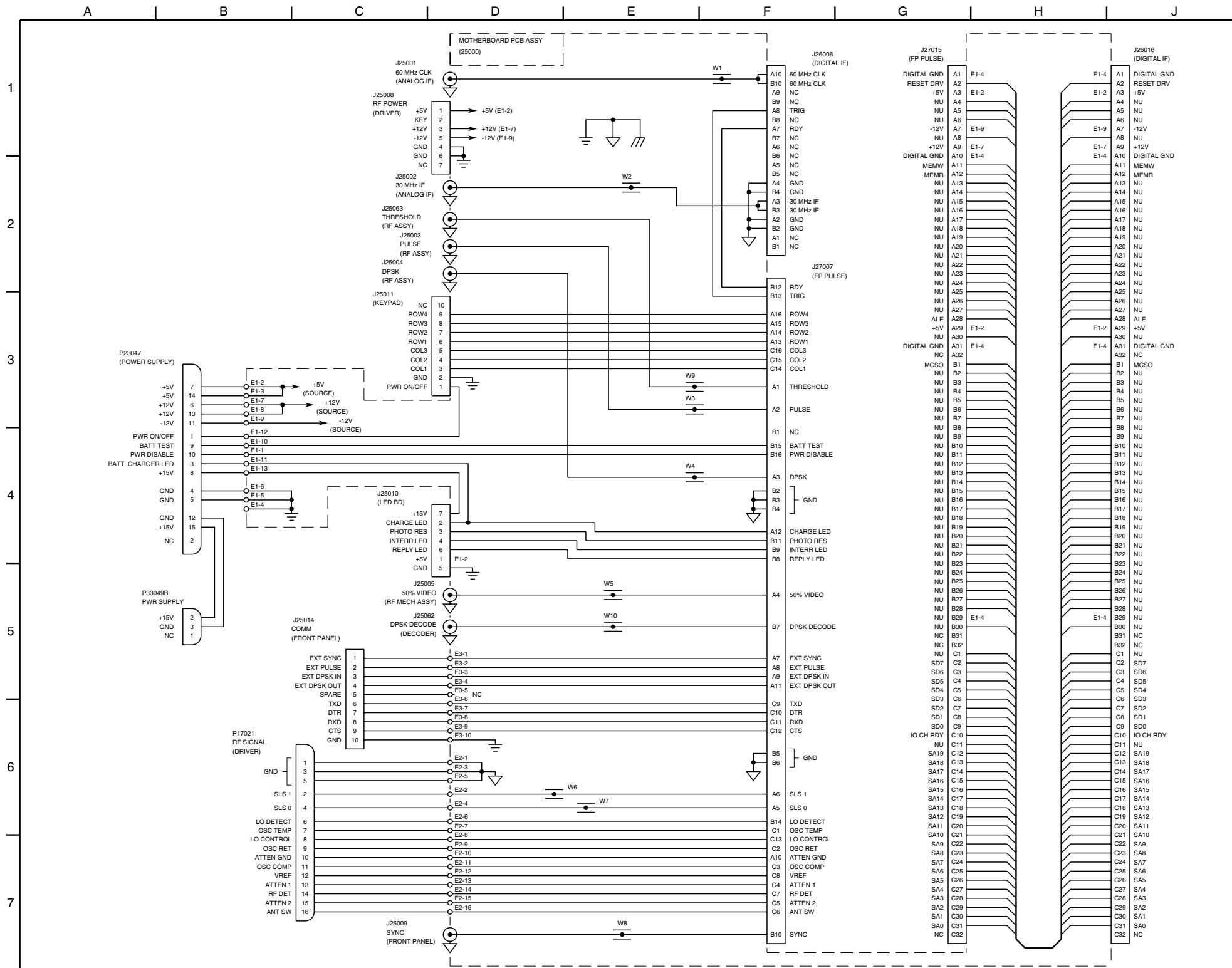
Figure 37 Line Supply Assy (Sheet 2 of 2)
(Circuit Schematic)



(7010-8538-000-B)

Figure 38 Motherboard PCB Assy (Sheet 1 of 2)

8532100P



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

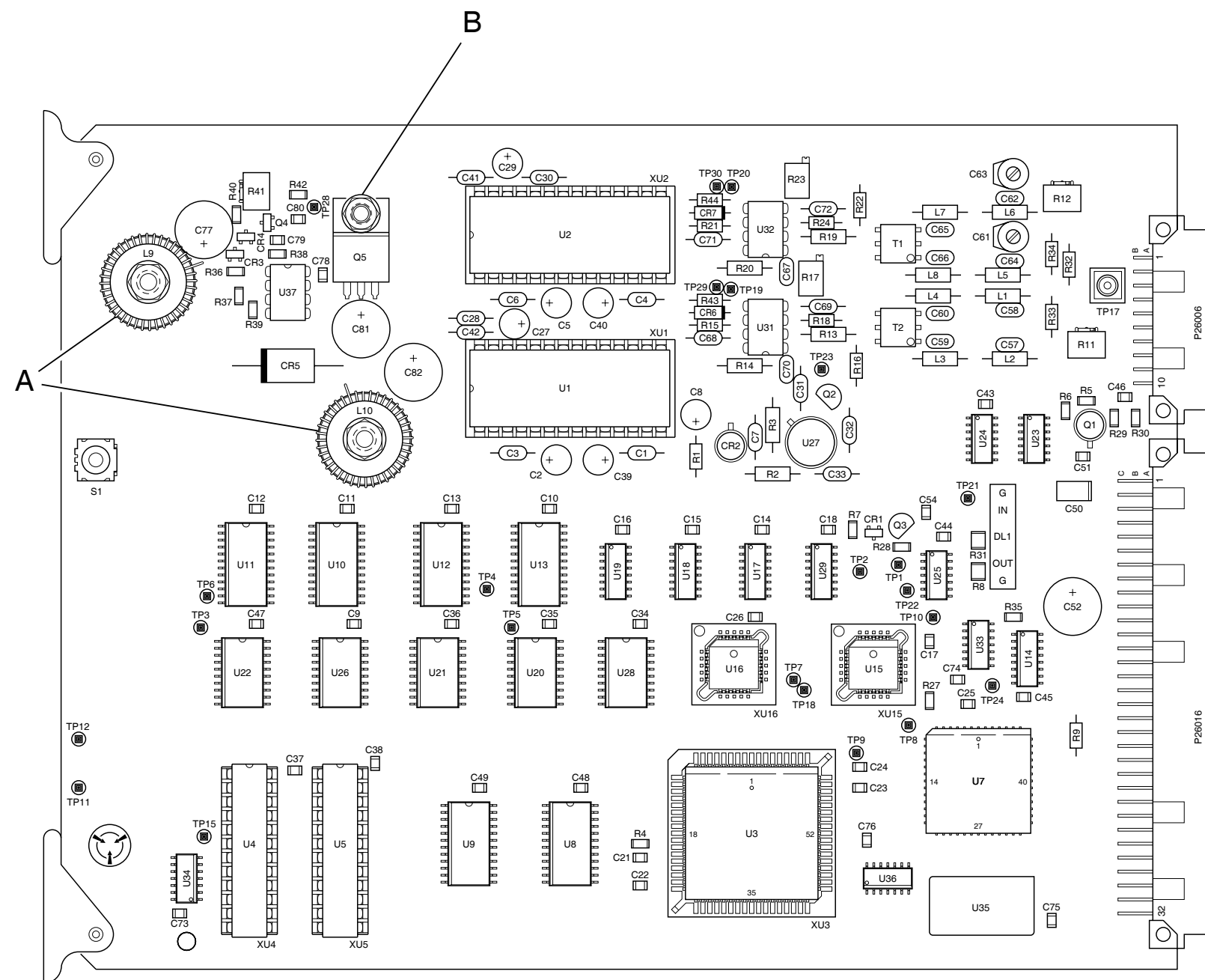
NOTES:
(UNLESS OTHERWISE SPECIFIED)

- ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7010-8538-000 25000 (e.g., J1 IS J25001)

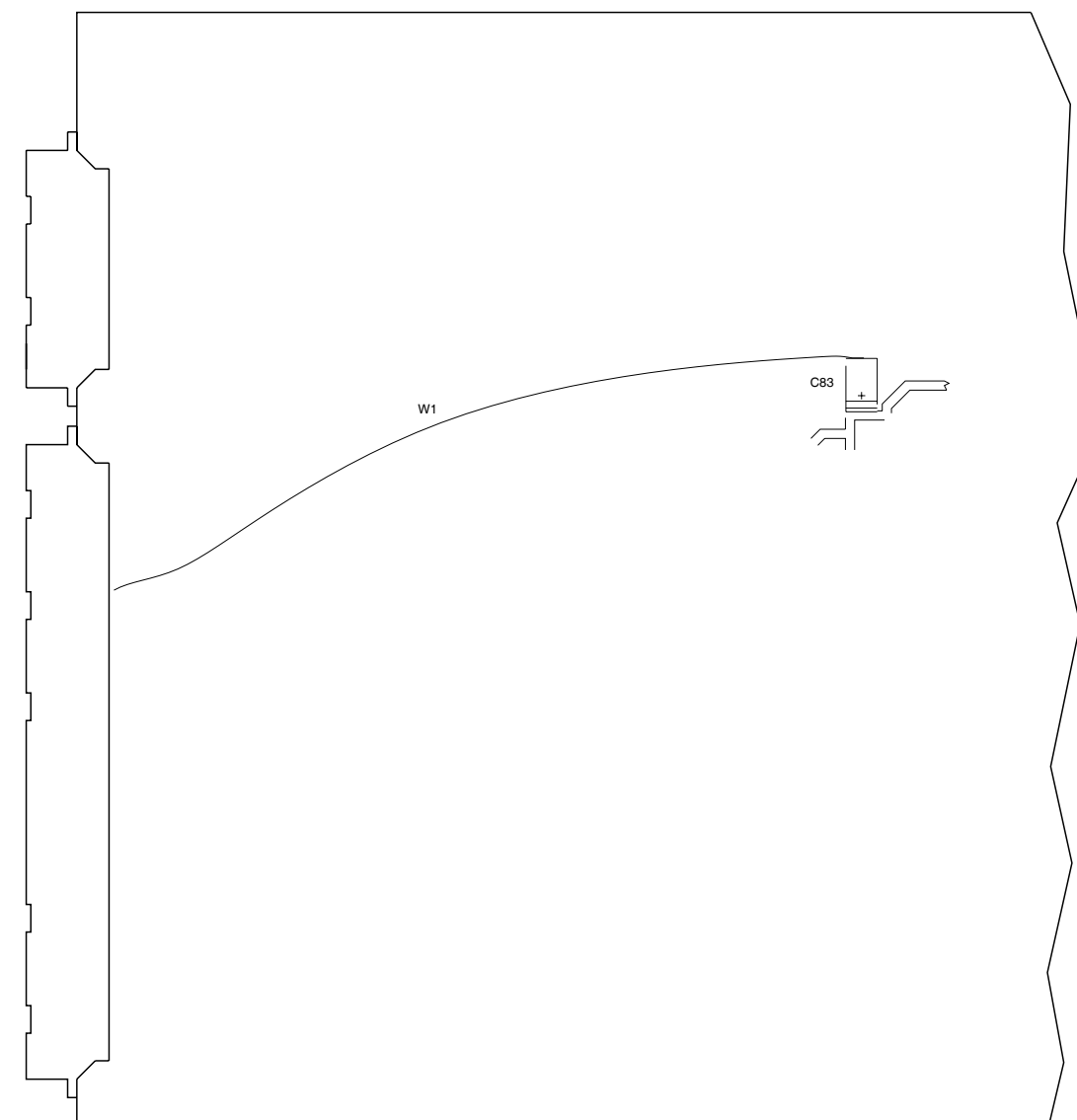
8530000S

(0000-8538-000-C)

Figure 38 Motherboard PCB Assy (Sheet 2 of 2)
(Circuit Schematic)



TOP VIEW

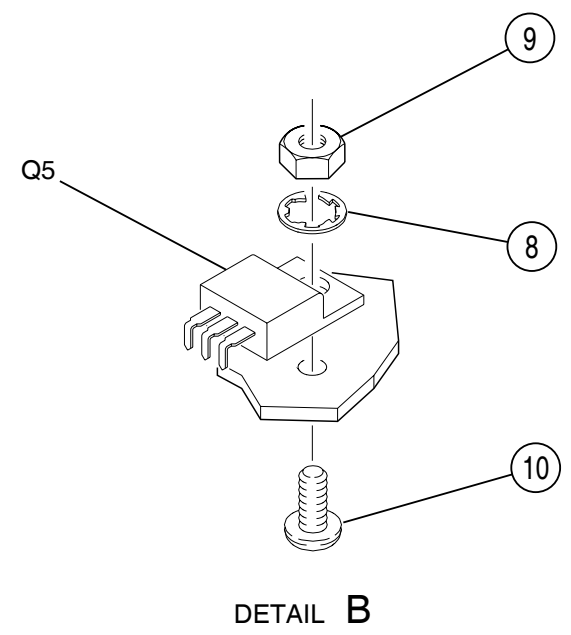
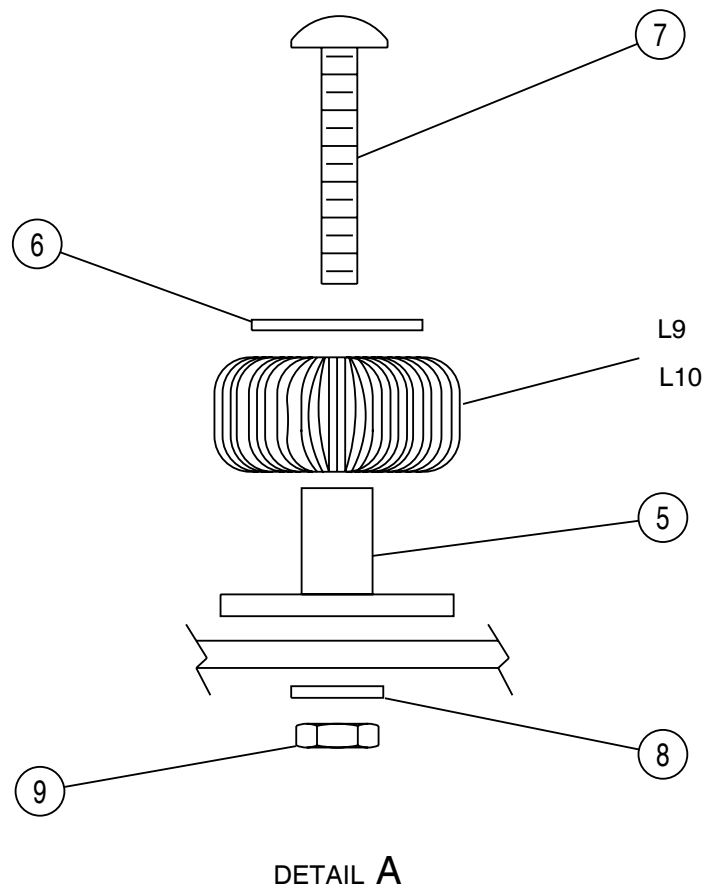


BOTTOM VIEW
(REV F AND ON)

(7010-8130-100-F)

Figure 39 Digital IF PCB Assy (Sheet 1 of 4)

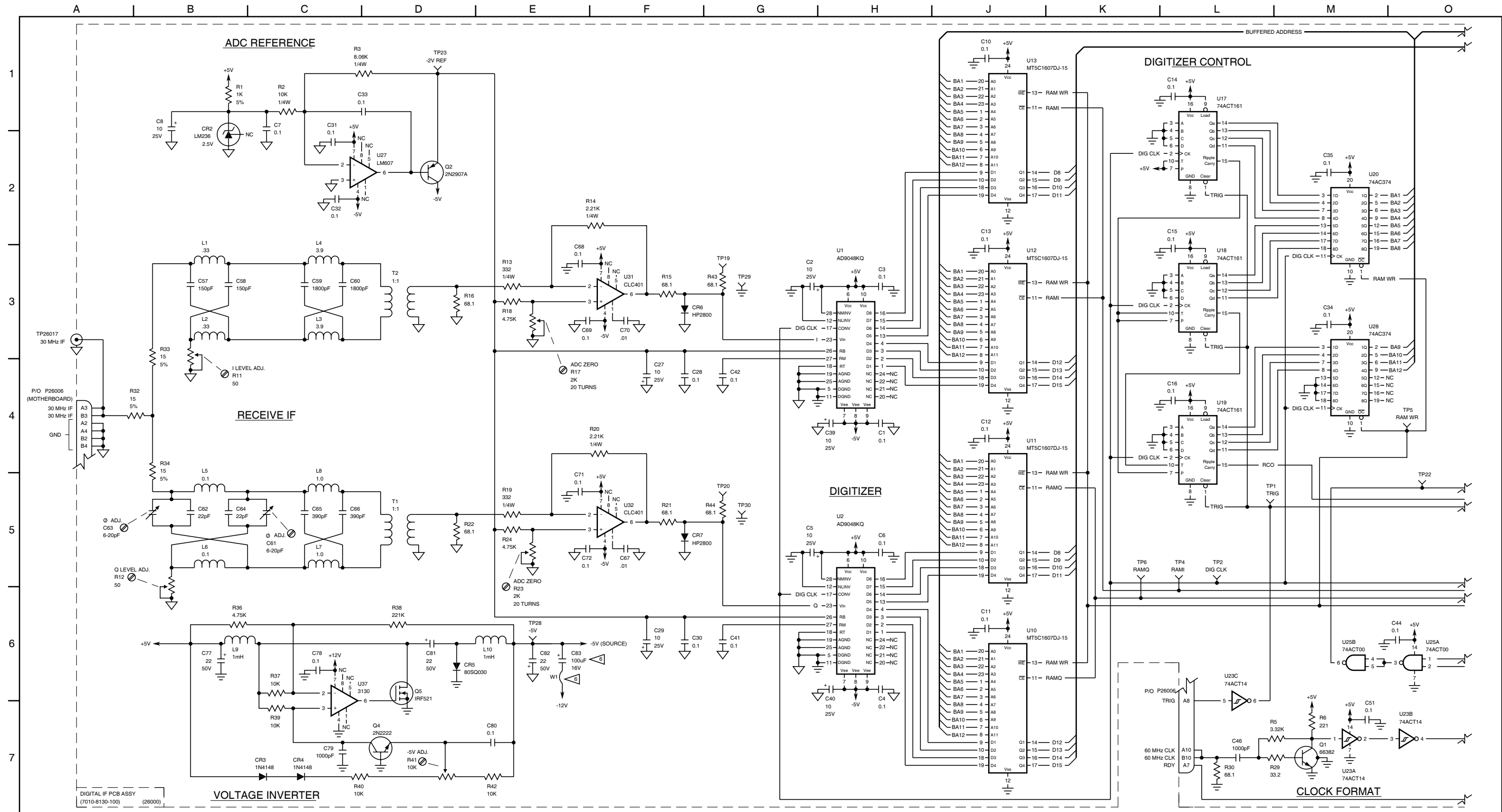
085M-05



(7010-8130-100-F)

Figure 39 Digital IF PCB Assy (Sheet 2 of 4)

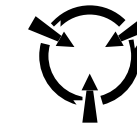
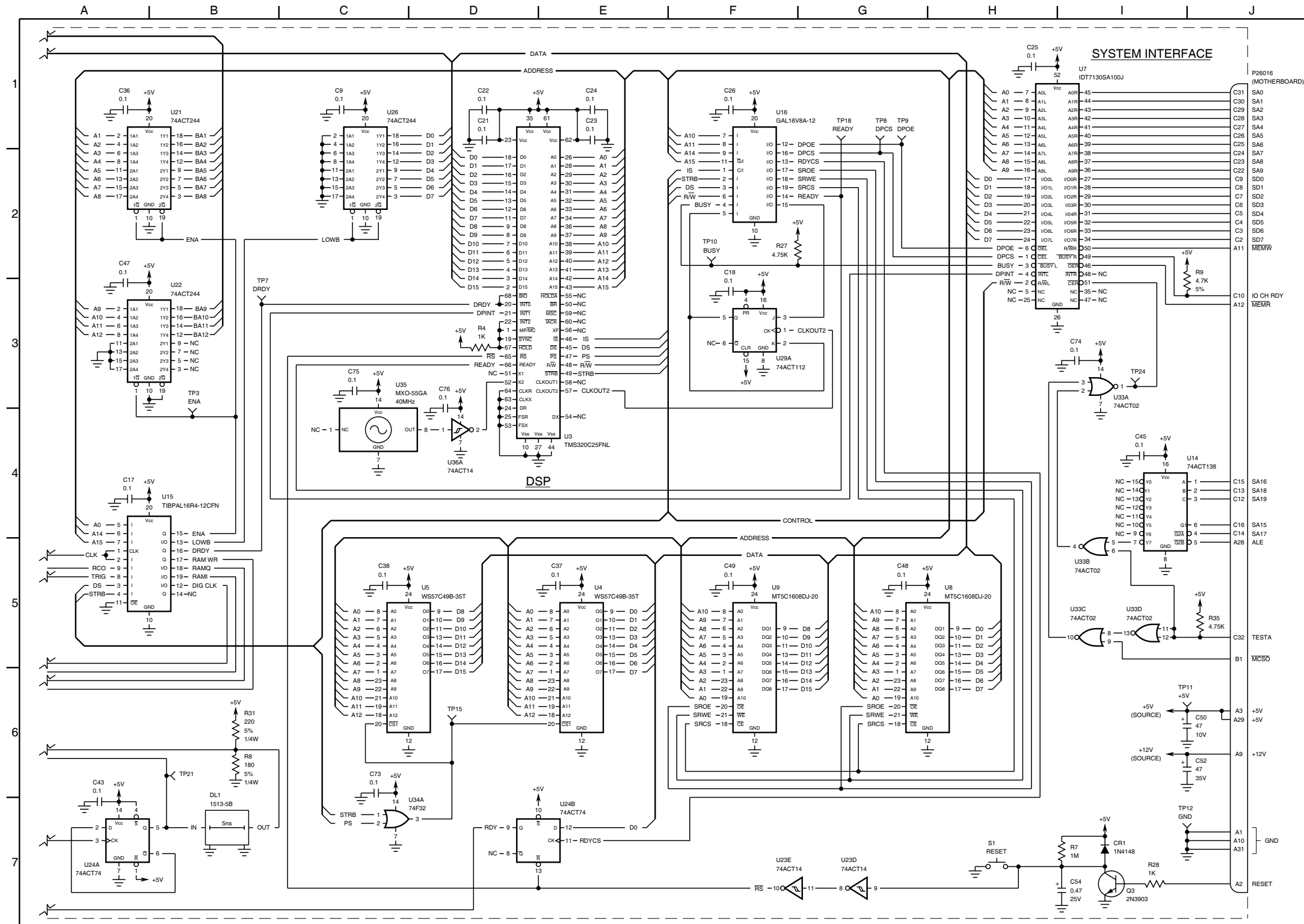
085M-06



8530101S

Figure 39 Digital IF PCB Assy (Sheet 3 of 4)
Circuit Schematic - Sheet 1 of 2

(0000-8130-100-E)



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

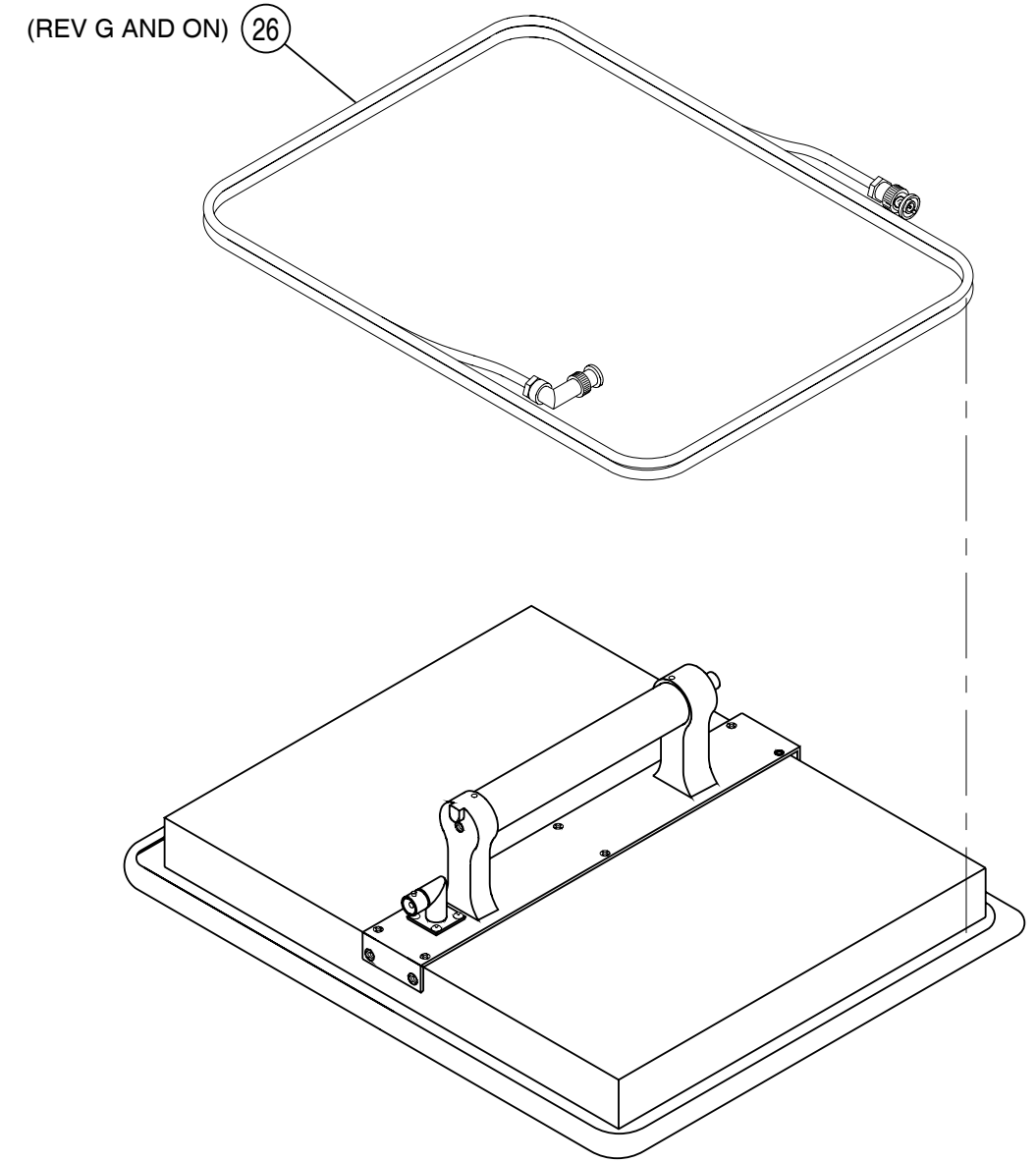
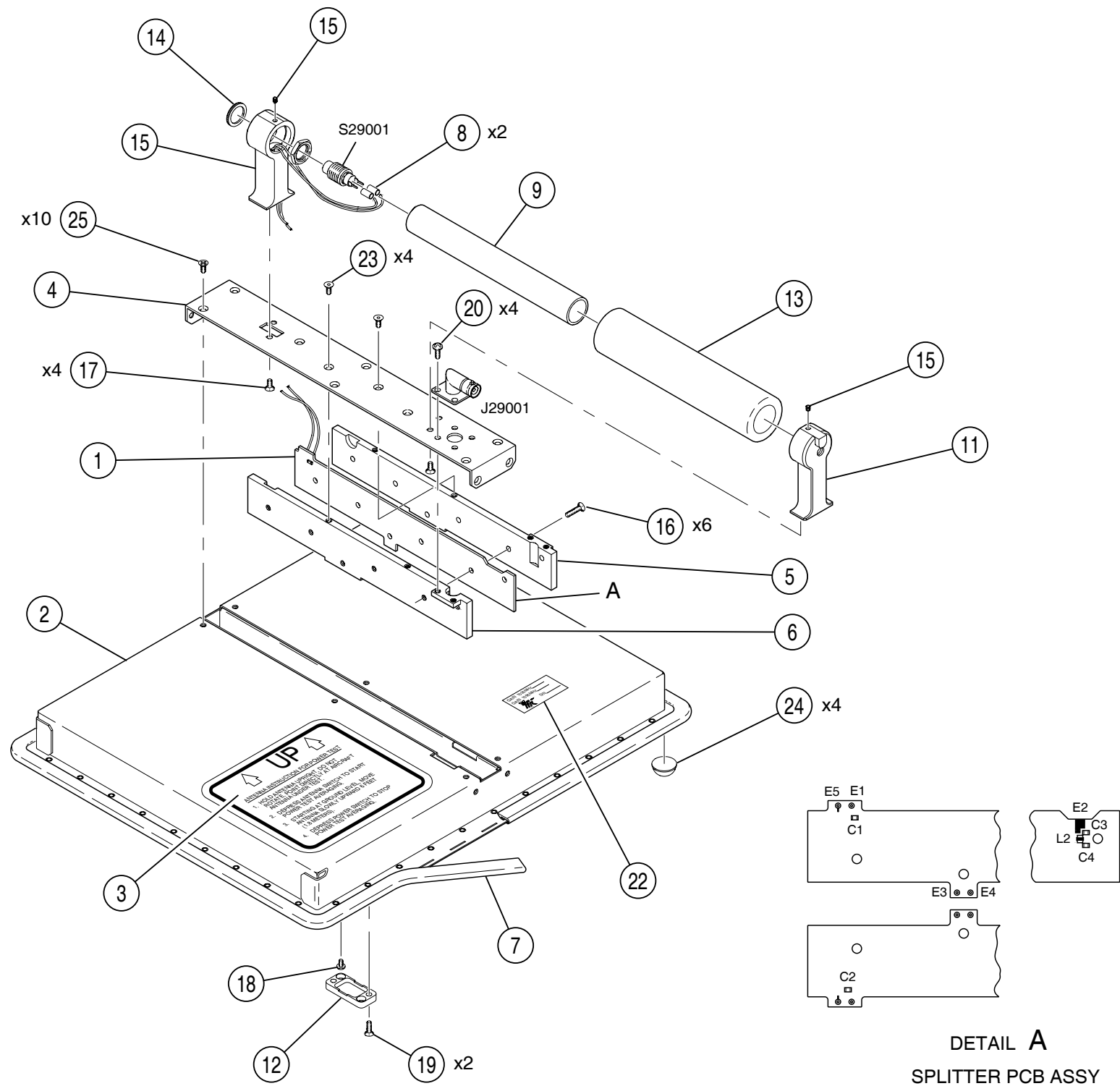
NOTES:
(UNLESS OTHERWISE SPECIFIED)

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.

85301025

(0000-8130-100-E)

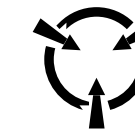
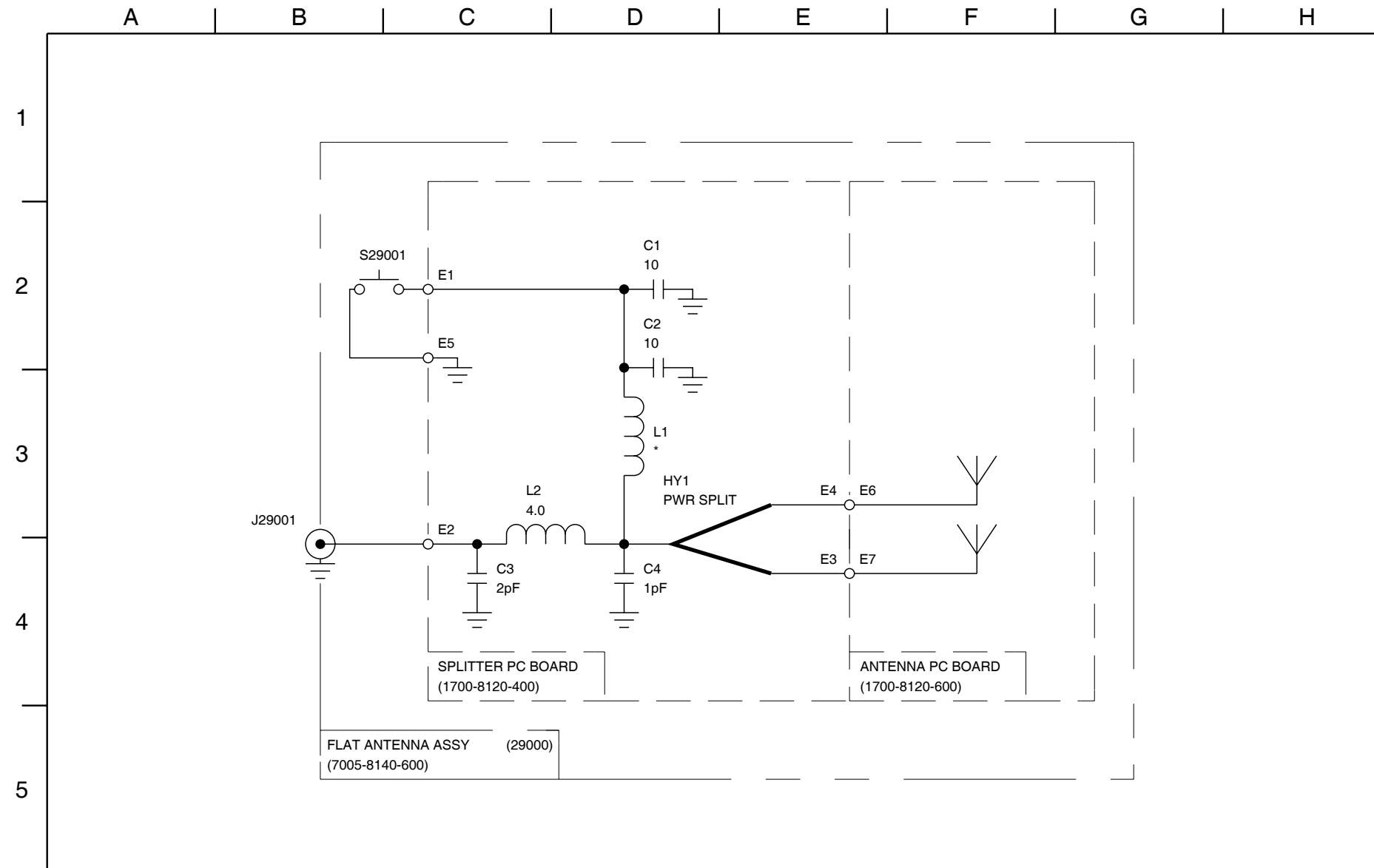
Figure 39 Digital IF PCB Assy (Sheet 4 of 4)
(Circuit Schematic - Sheet 2 of 2)



(7005-8140-600-H)

Figure 40 Flat Antenna Assy (Sheet 1 of 2)

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:

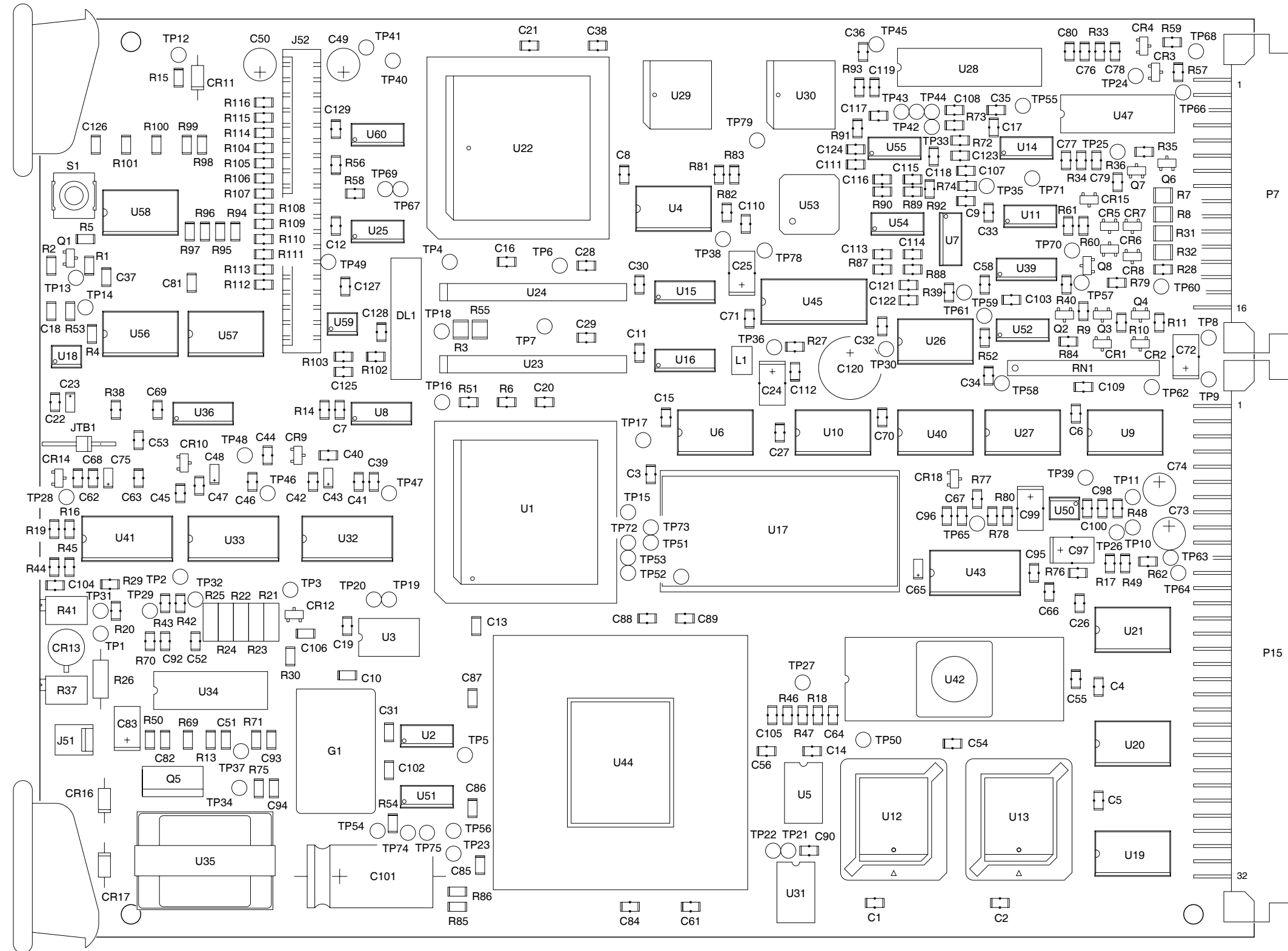
7005-8140-600 29000 (e.g., C1 is C29001)
2. ALL CAPACITANCE IS EXPRESSED IN PICO FARADS.
3. ALL INDUCTANCE IS EXPRESSED IN NANOHENRIES.

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

8140600S

(0000-8140-600-D1)

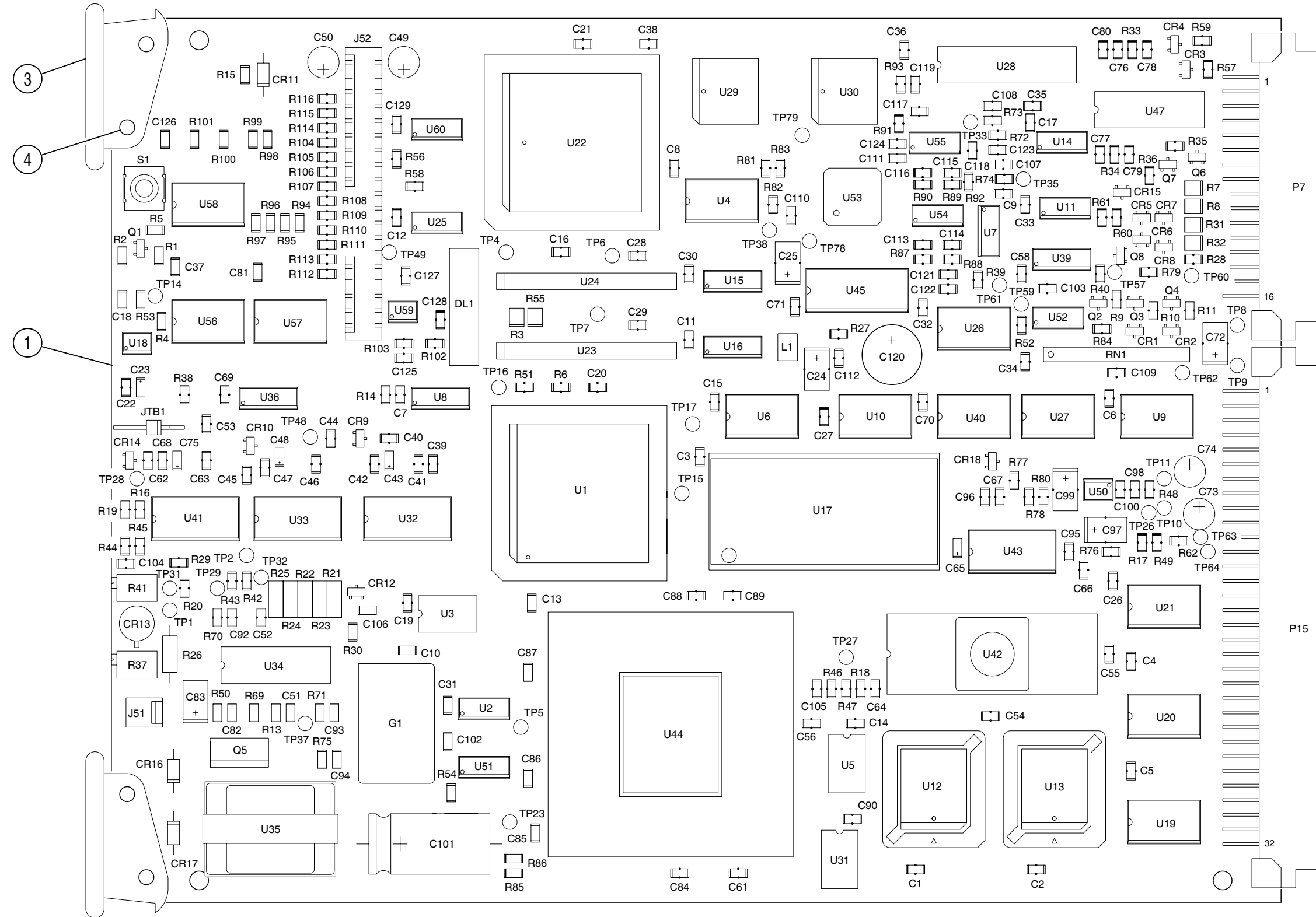
Figure 40 Flat Antenna Assy (Sheet 2 of 2)
(Circuit Schematic)



8130200P

(7010-8134-100-B)

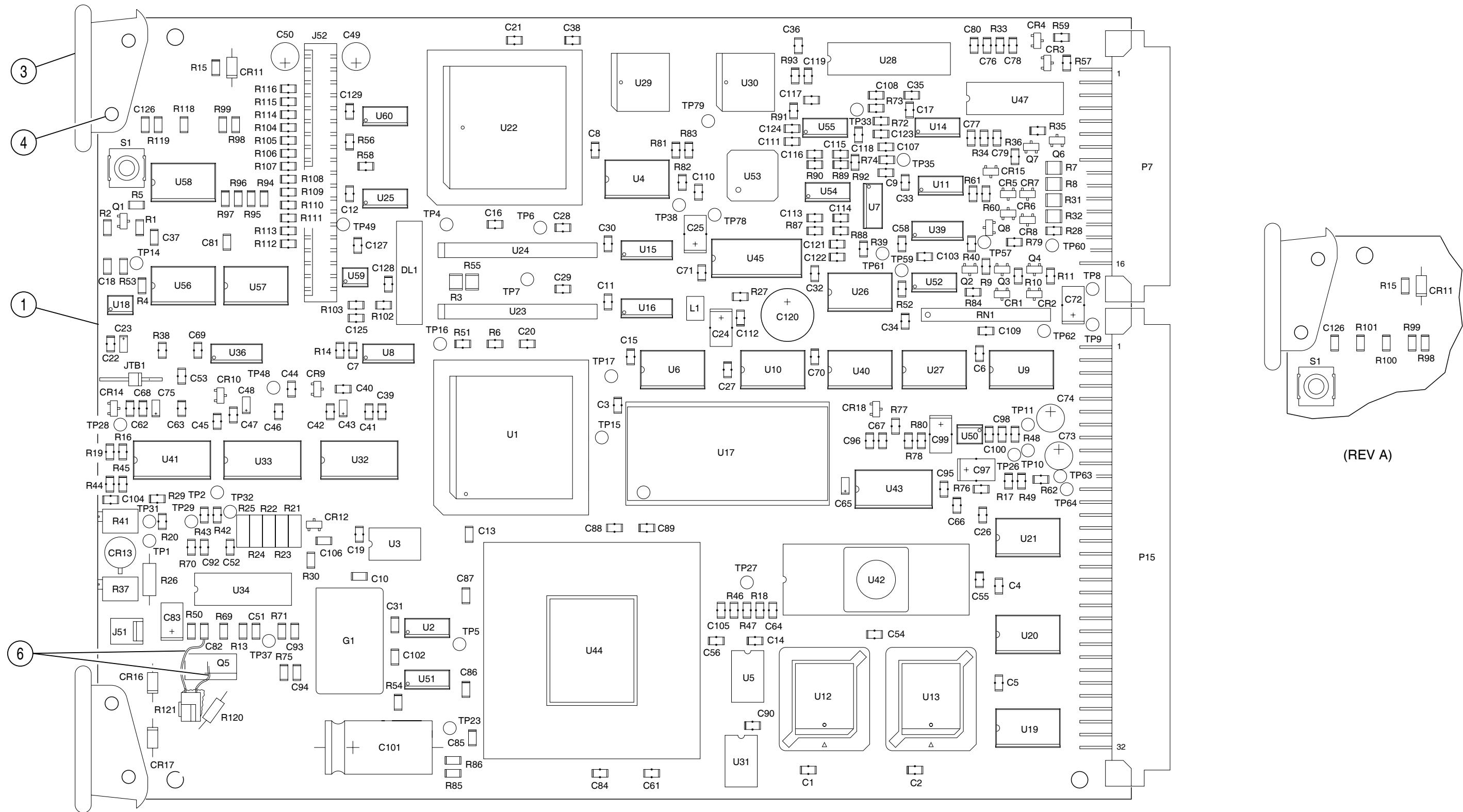
Figure 41 Front Panel Pulse PCB Assy (Sheet 1 of 11)



(7010-8134-100-C)

Figure 41 Front Panel Pulse PCB Assy (Sheet 2 of 11)

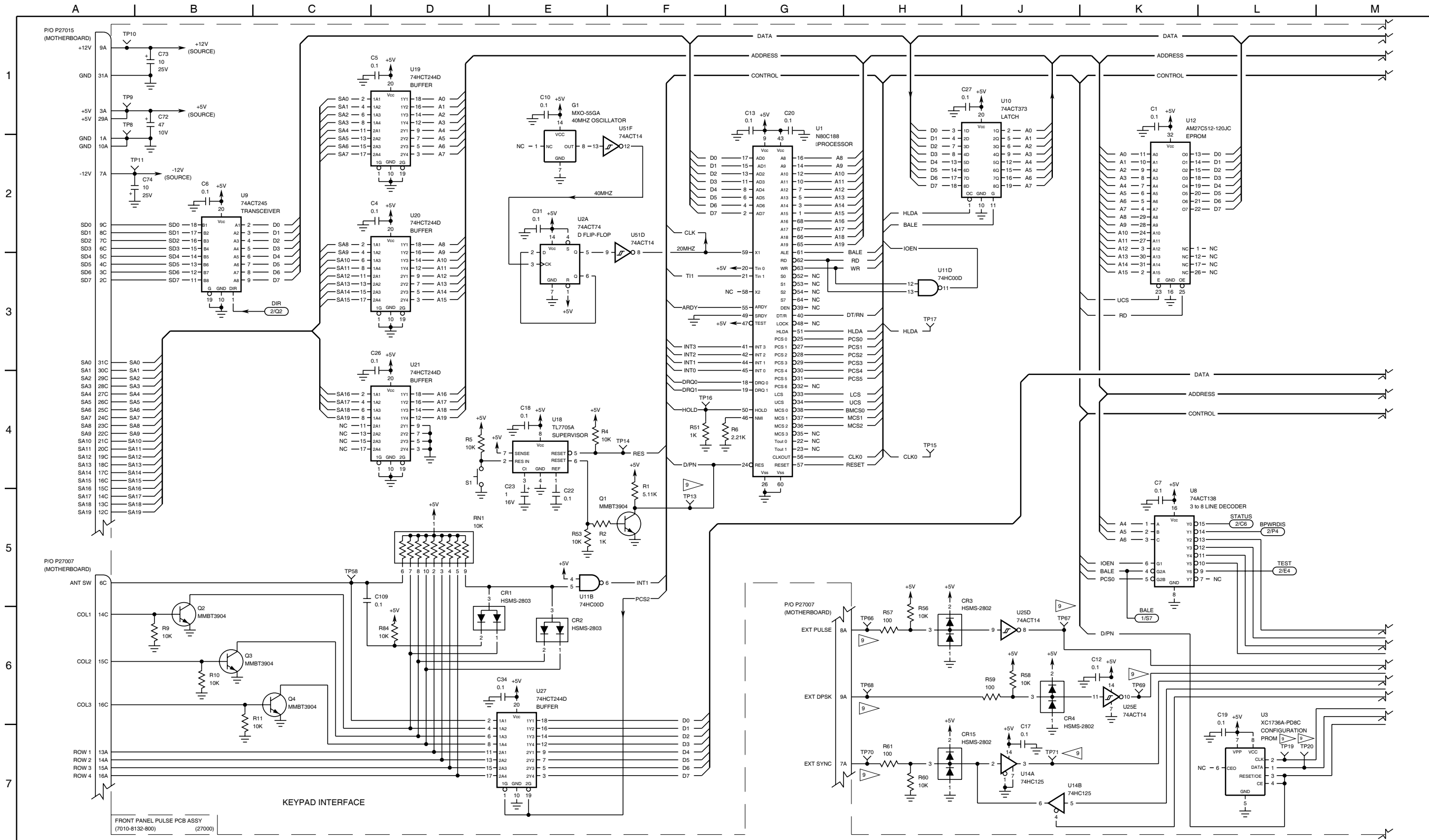
085M-10



085M-11

(7010-8132-800-B)

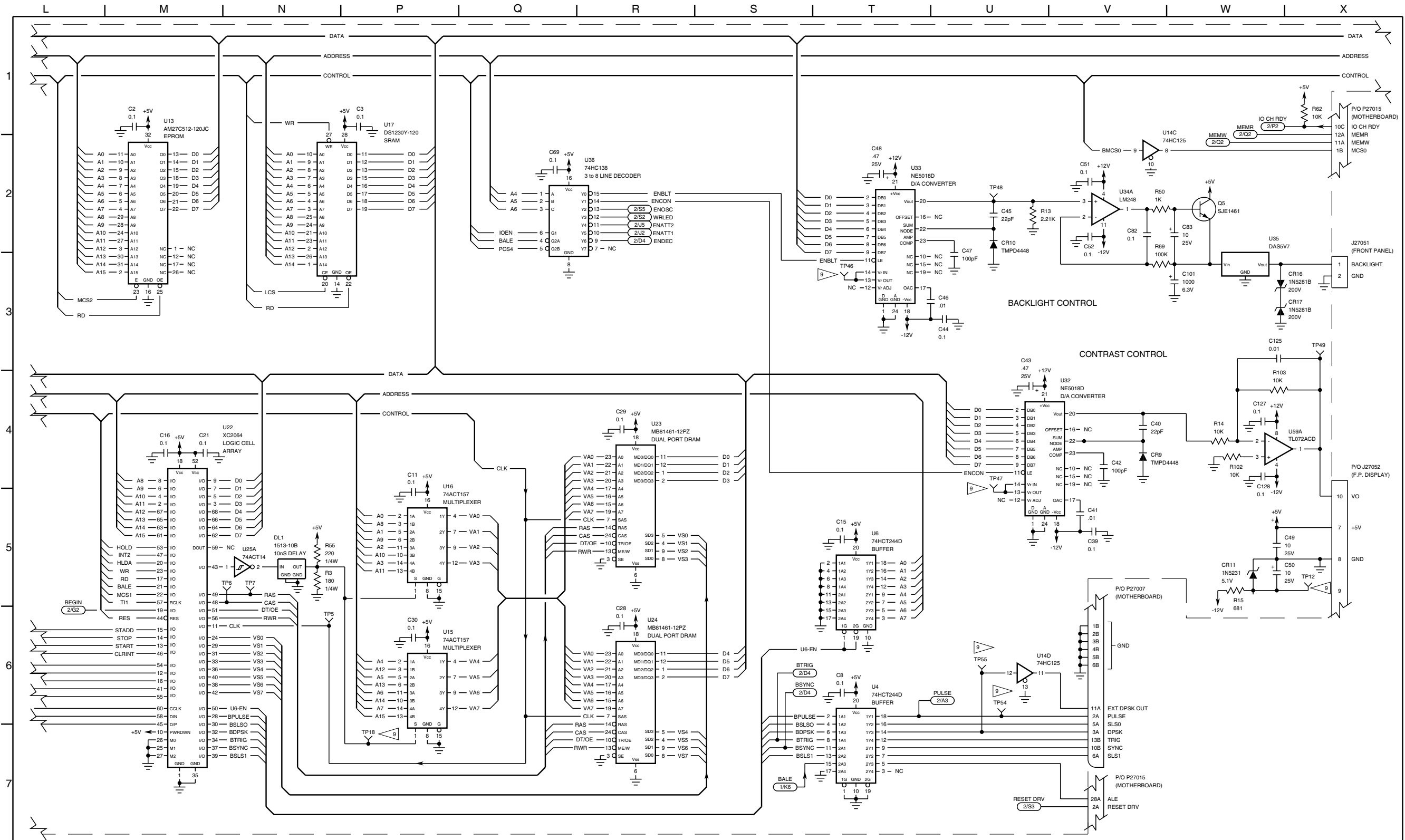
Figure 41 Front Panel Pulse PCB Assy (Sheet 3 of 11)



8132601S

(0000-8134-100-C)

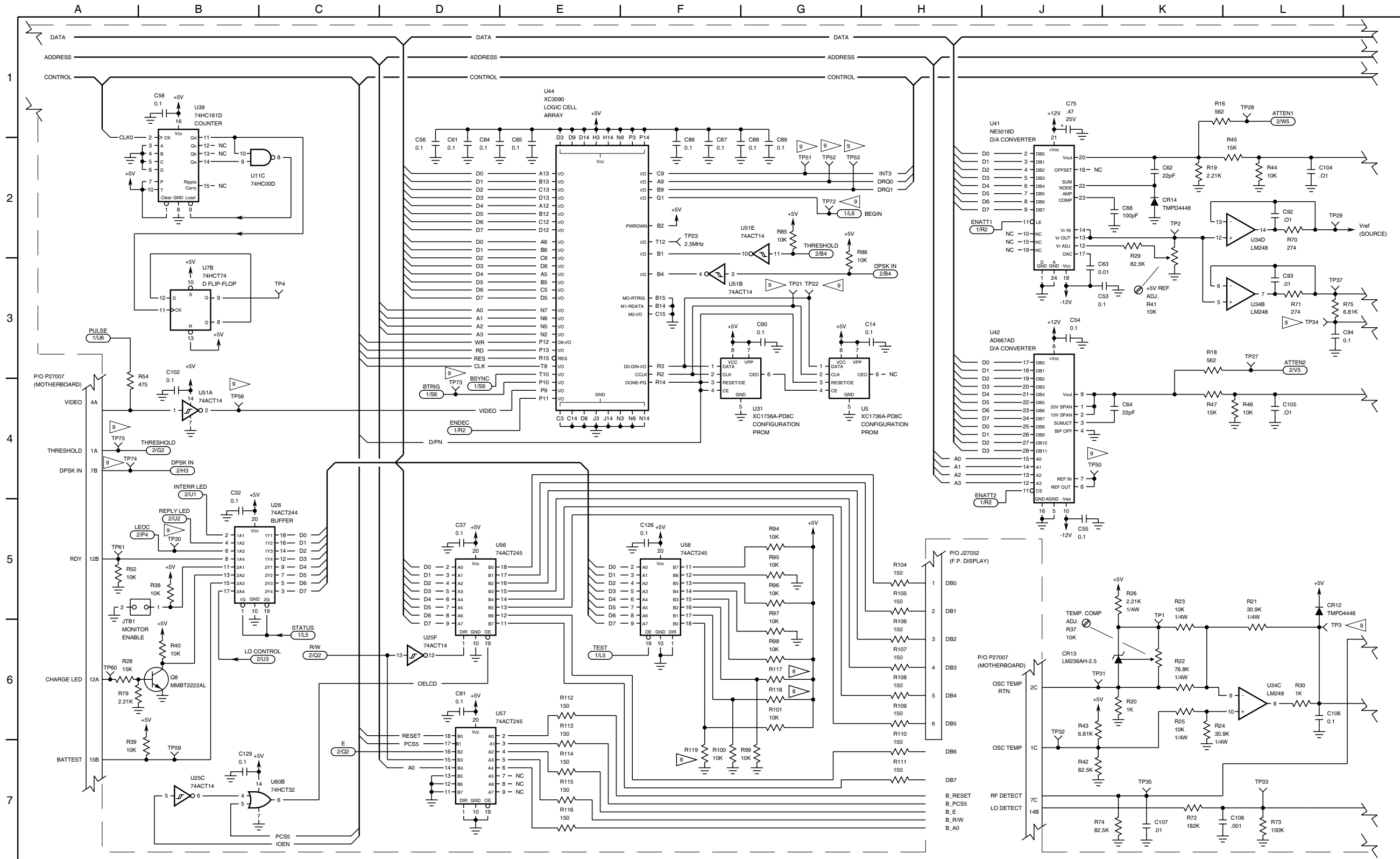
Figure 41 Front Panel Pulse PCB Assy (Sheet 4 of 11)
(Circuit Schematic - Sheet 1 of 8)



8132602S

(0000-8134-100-C)

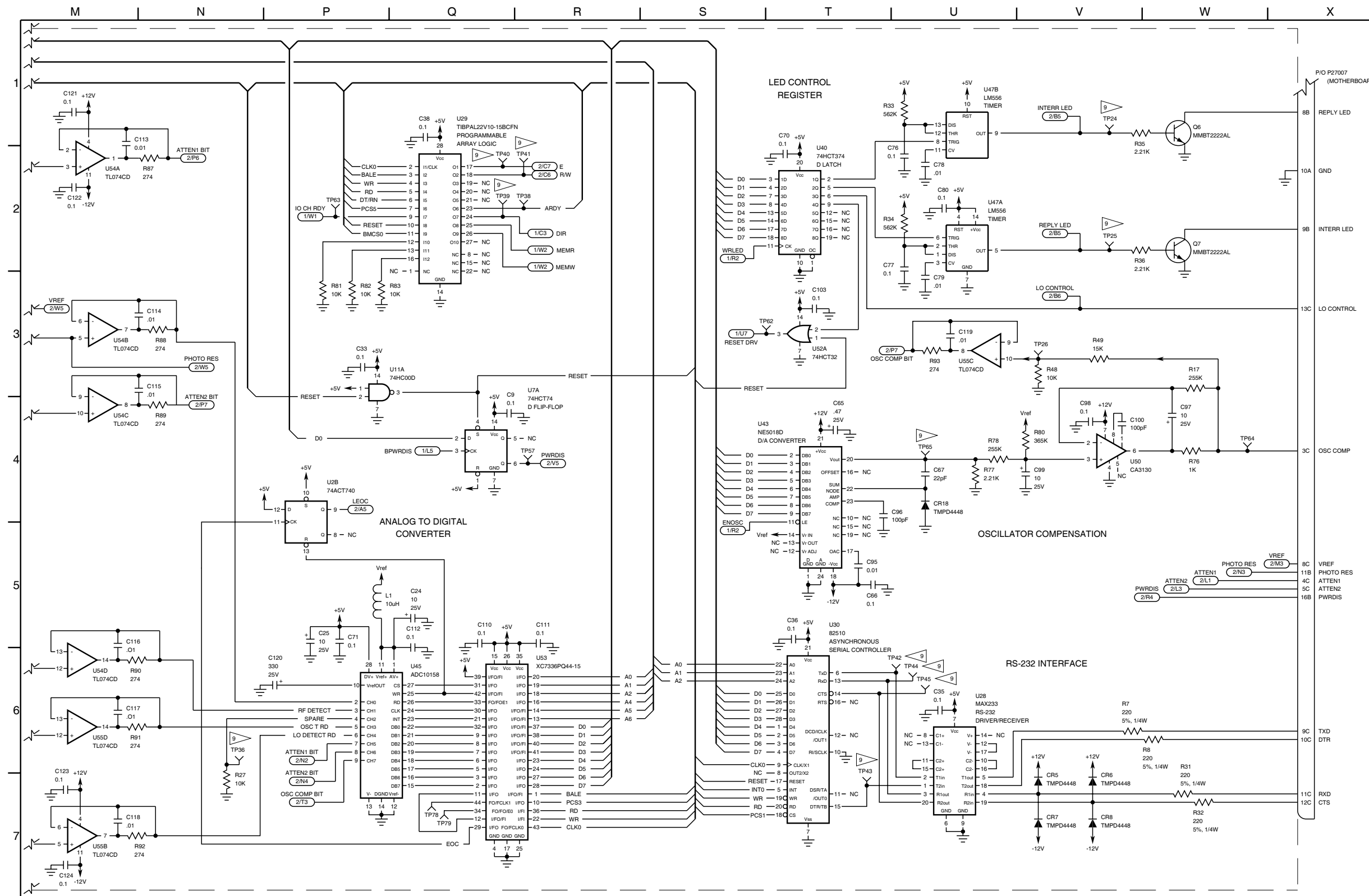
Figure 41 Front Panel Pulse PCB Assy (Sheet 5 of 11)
(Circuit Schematic - Sheet 2 of 8)



8132603E

Figure 41 Front Panel Pulse PCB Assy (Sheet 6 of 11)
(Circuit Schematic - Sheet 3 of 8)

(0000-8134-100-C)



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

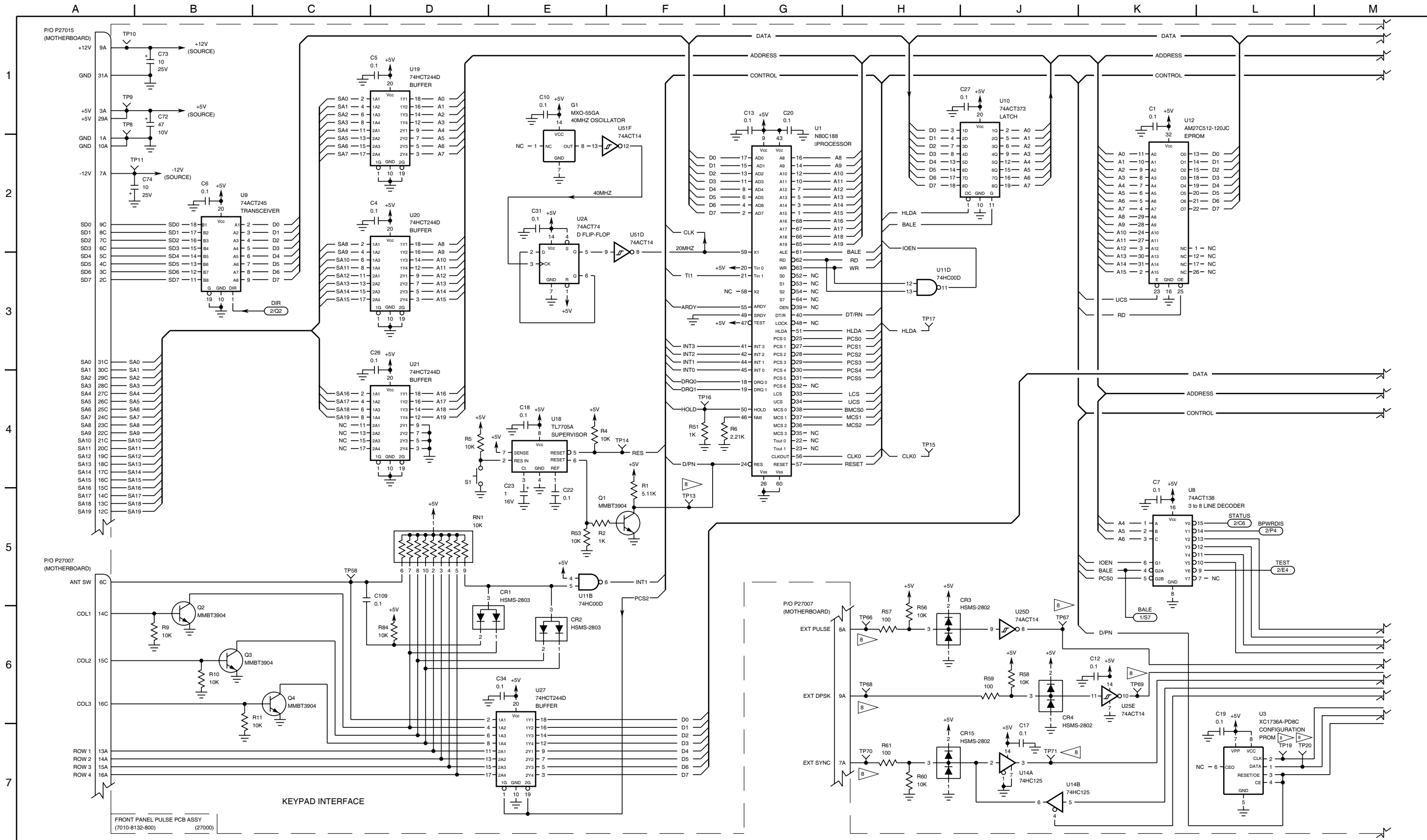
NOTES:
(UNLESS OTHERWISE SPECIFIED)

- ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS SCHEMATIC CARRIES SERIES:
7010-8134-100 27000 (e.g., R1 IS R27001)
- ALL RESISTORS ARE 1/8 W, 1% TOLERANCE.
- ALL RESISTANCE IS EXPRESSED IN OHMS.
- ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
- ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
- NOT USED
- NOT USED
- COMPONENTS NOT INSTALLED.
- COMPONENTS NOT INSTALLED. (REV C AND ON)

8132604S

(0000-8134-100-C)

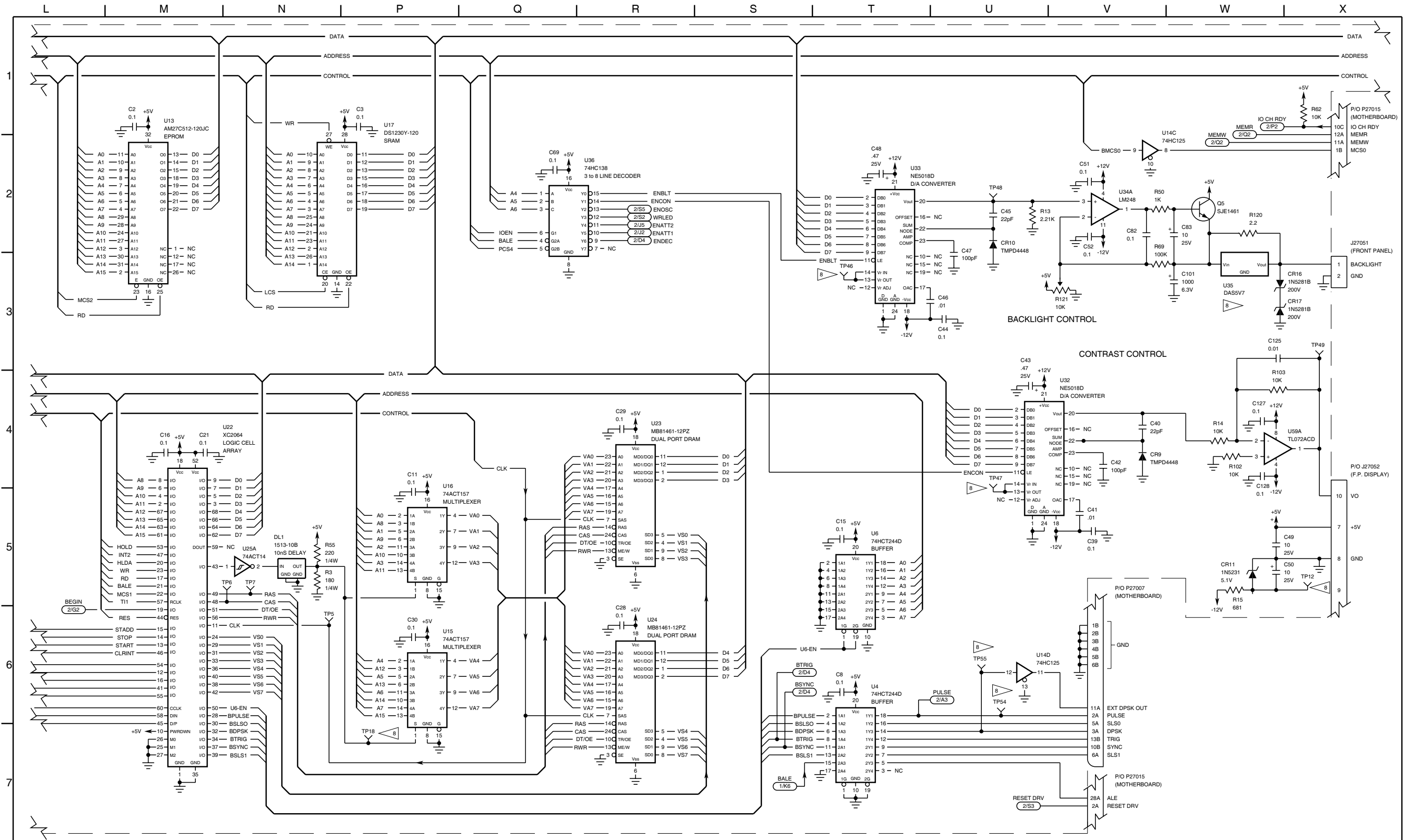
Figure 41 Front Panel Pulse PCB Assy (Sheet 7 of 11)
(Circuit Schematic - Sheet 4 of 8)



085M-12

(0000-8134-100-C)

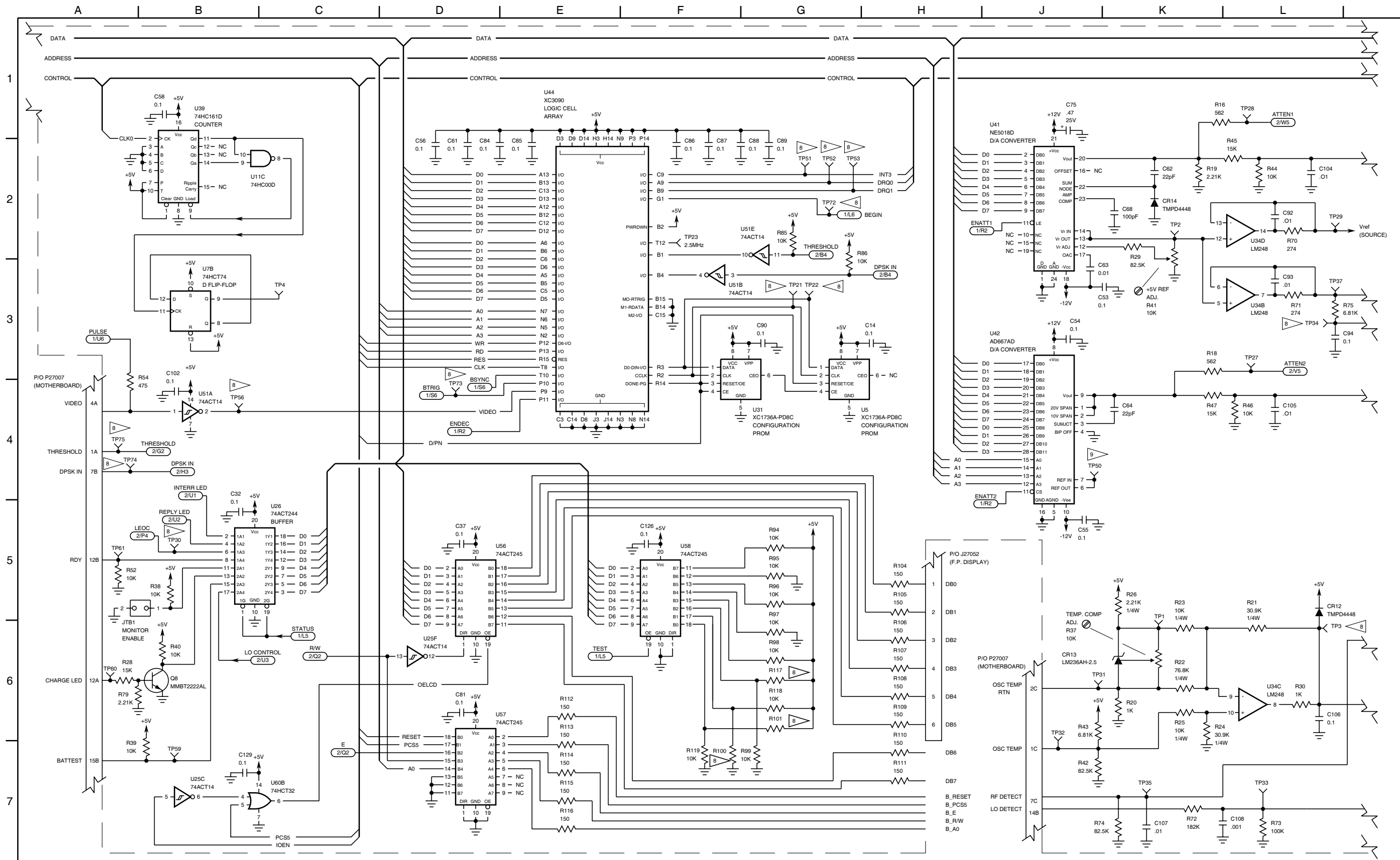
Figure 41 Front Panel Pulse PCB Assy (Sheet 8 of 11)
(Circuit Schematic - Sheet 5 of 8)



085M-11

(0000-8134-100-C)

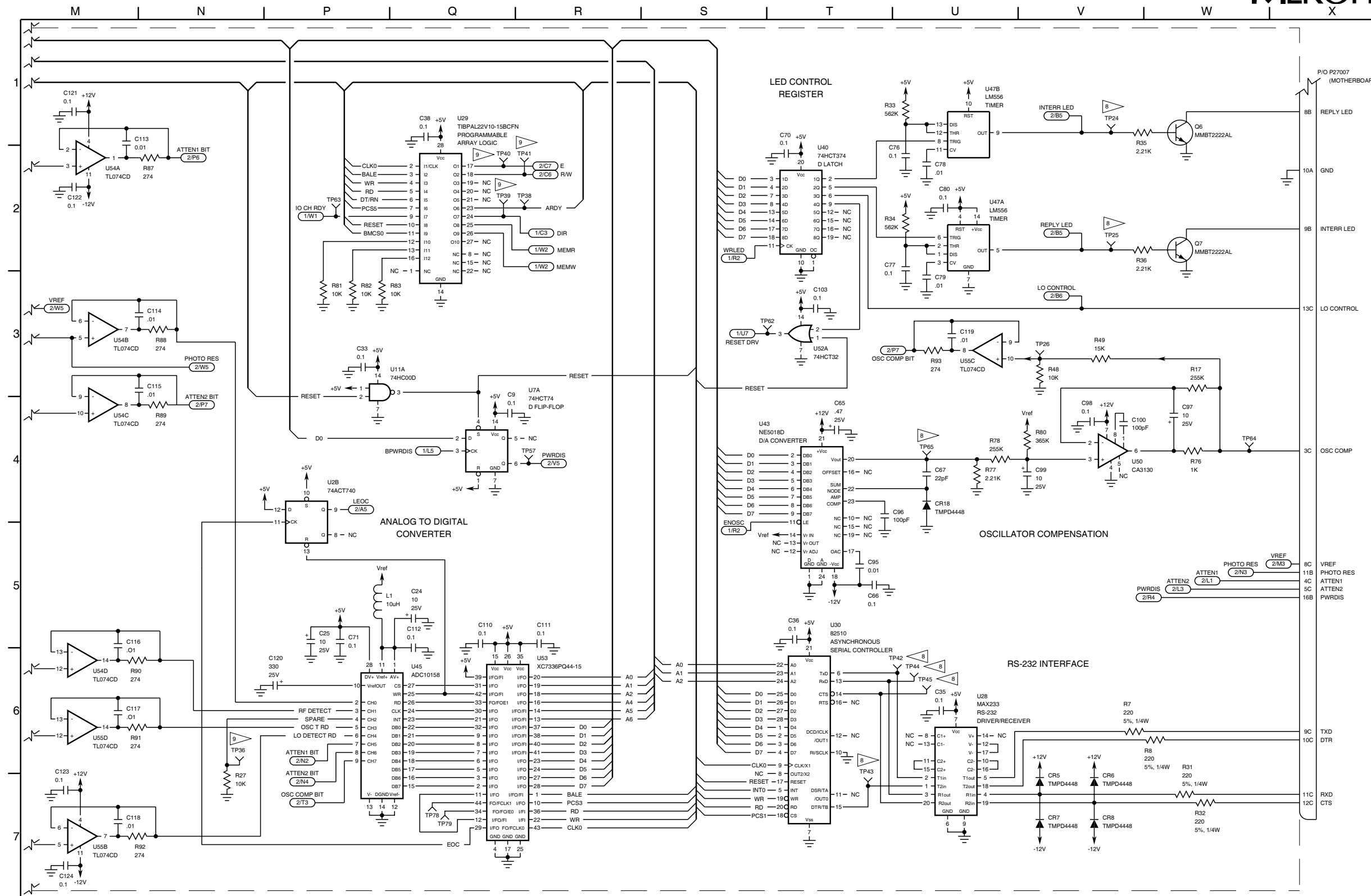
Figure 41 Front Panel Pulse PCB Assy (Sheet 9 of 11)
(Circuit Schematic - Sheet 6 of 8)



085M-14

(0000-8134-100-C)

Figure 41 Front Panel Pulse PCB Assy (Sheet 10 of 11)
(Circuit Schematic - Sheet 7 of 8)

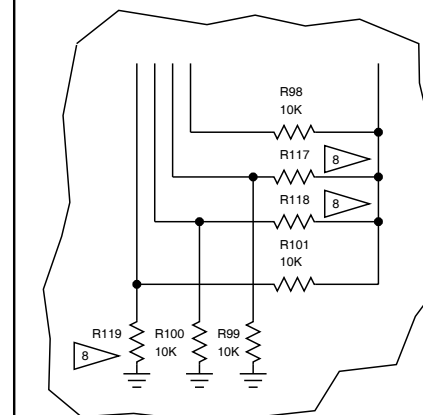


CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

NOTES:
(UNLESS OTHERWISE SPECIFIED)

- ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS SCHEMATIC CARRIES SERIES:
7010-8132-800 27000 (e.g., R1 IS R27001)
- ALL RESISTORS ARE 1/8 W, 1% TOLERANCE.
- ALL RESISTANCE IS EXPRESSED IN OHMS.
- ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
- ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
- NOT USED
- NOT USED

8 COMPONENTS NOT INSTALLED.

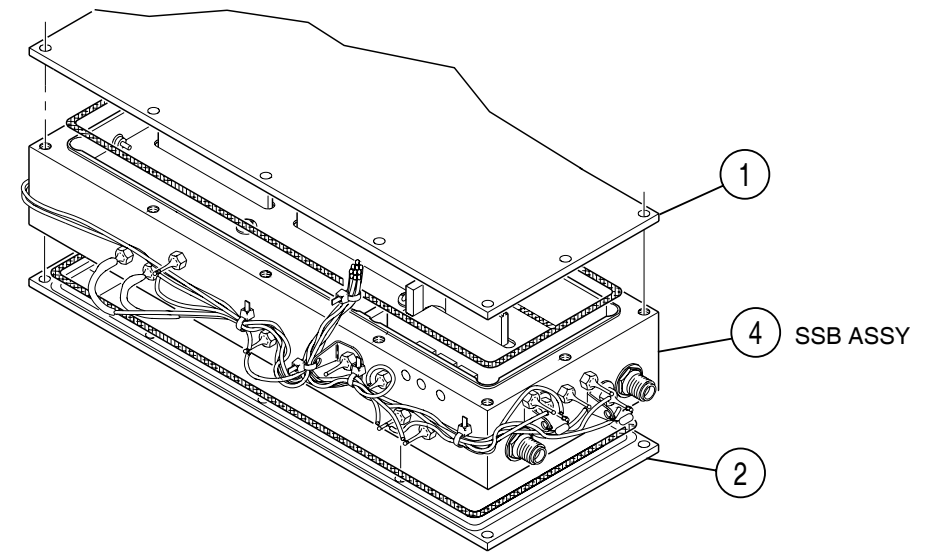
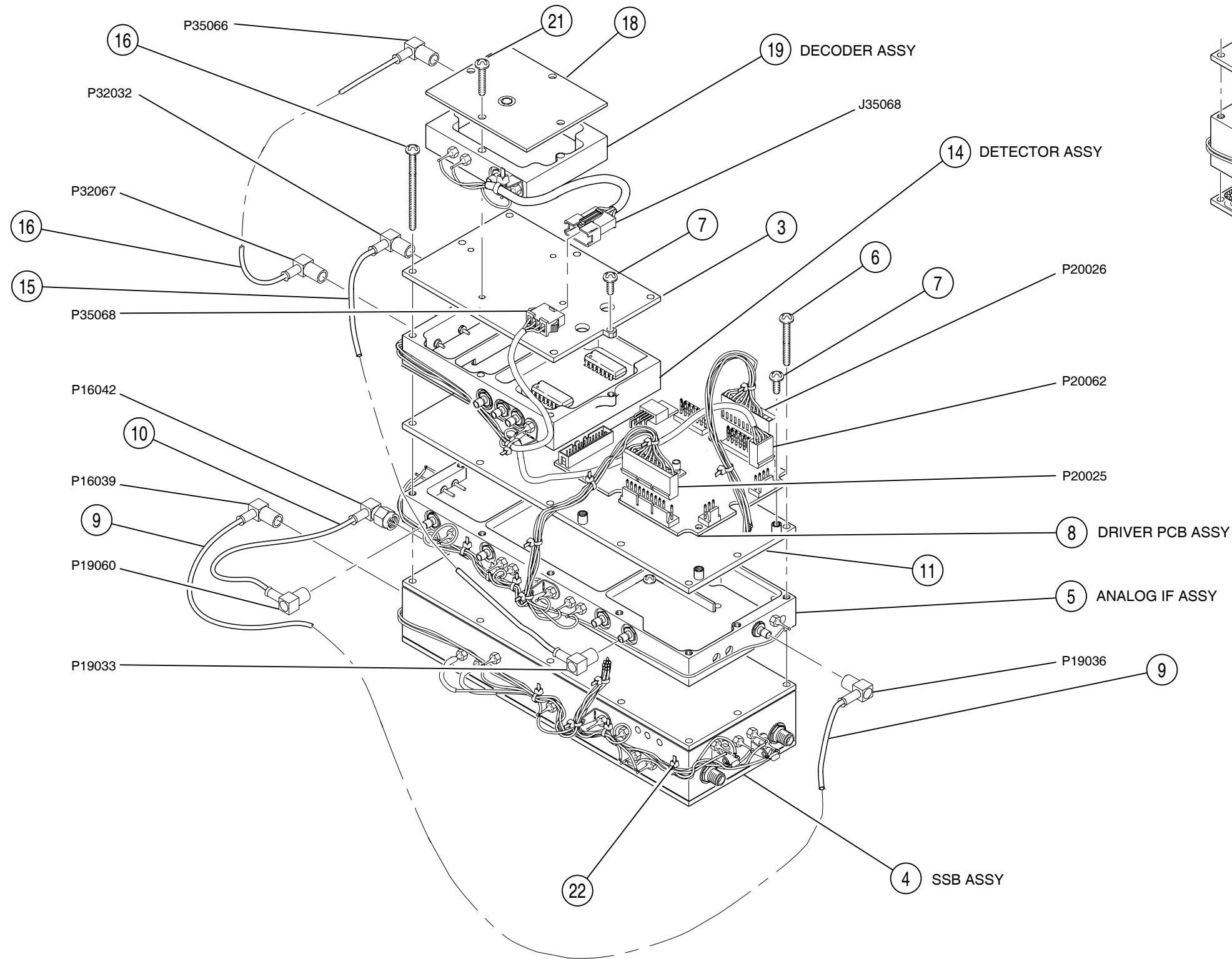


(REV A)

085M-15

(0000-8134-100-C)

Figure 41 Front Panel Pulse PCB Assy (Sheet 11 of 11)
(Circuit Schematic - Sheet 8 of 8)

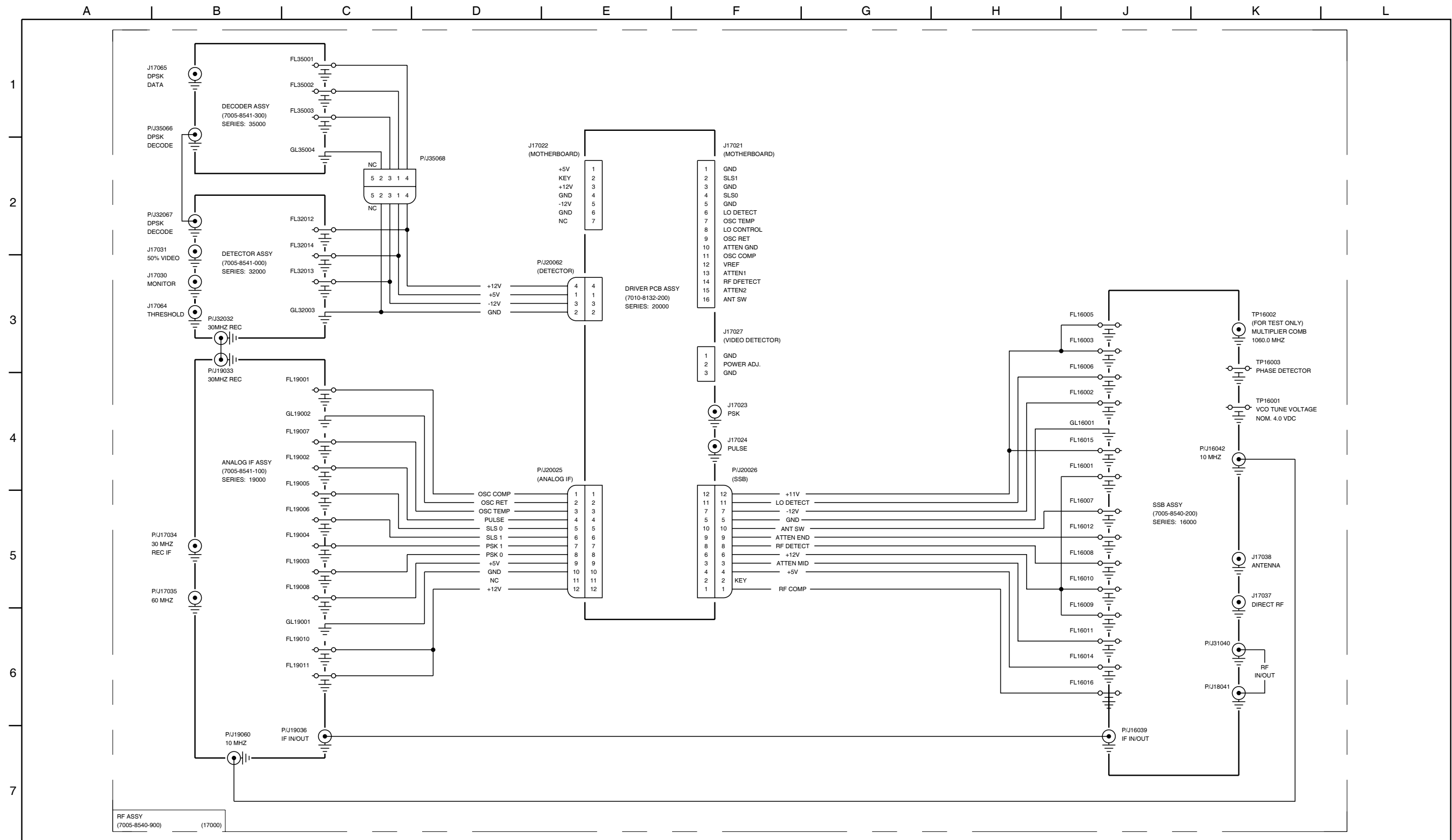


(REV A)

(7005-8545-500-B)

Figure 42 RF Assy (Sheet 1 of 23)

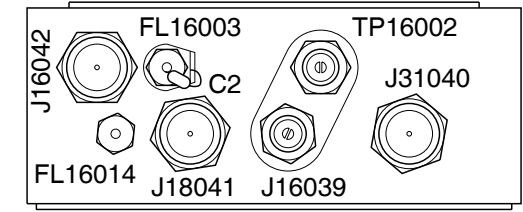
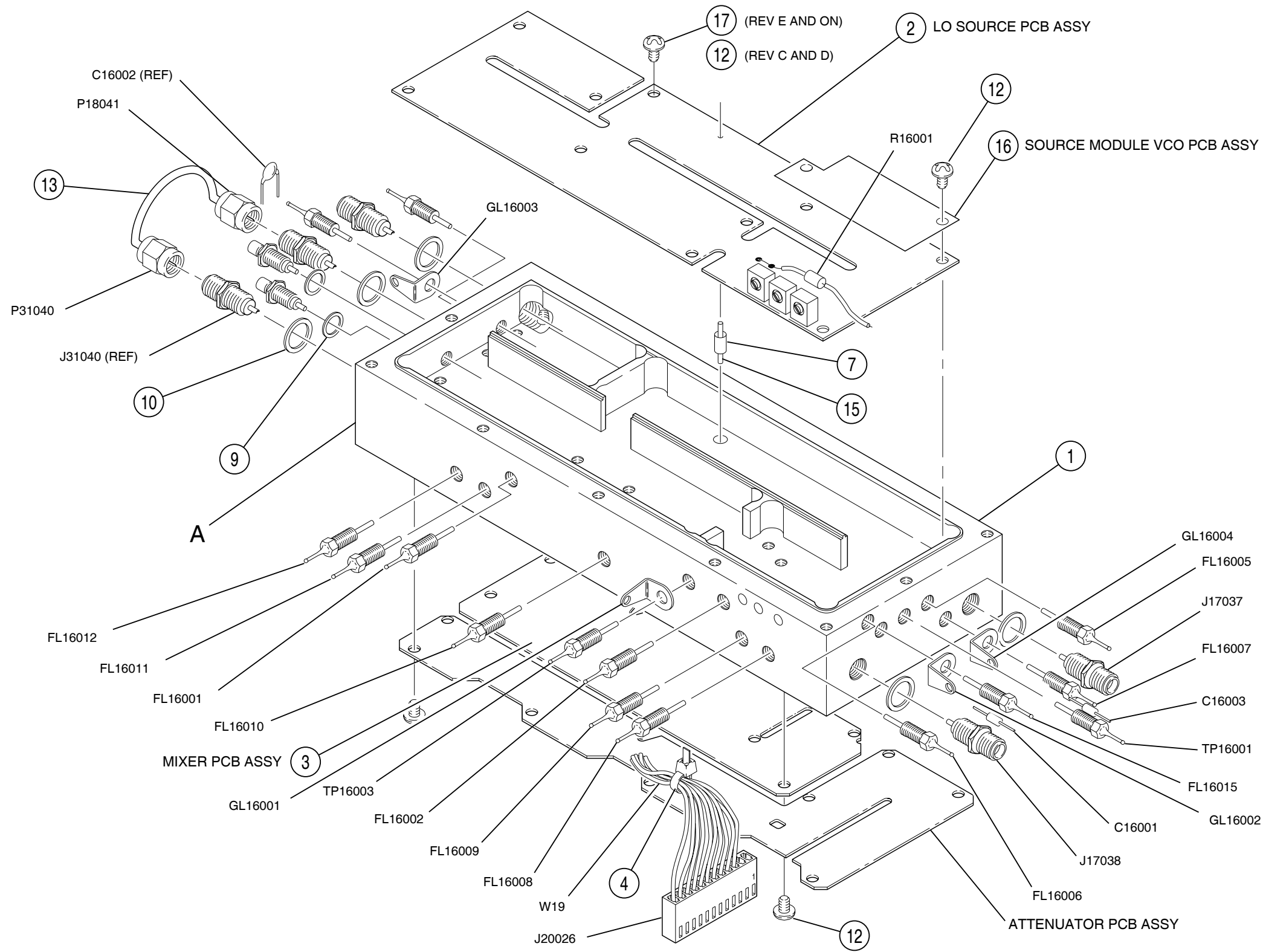
8545500M



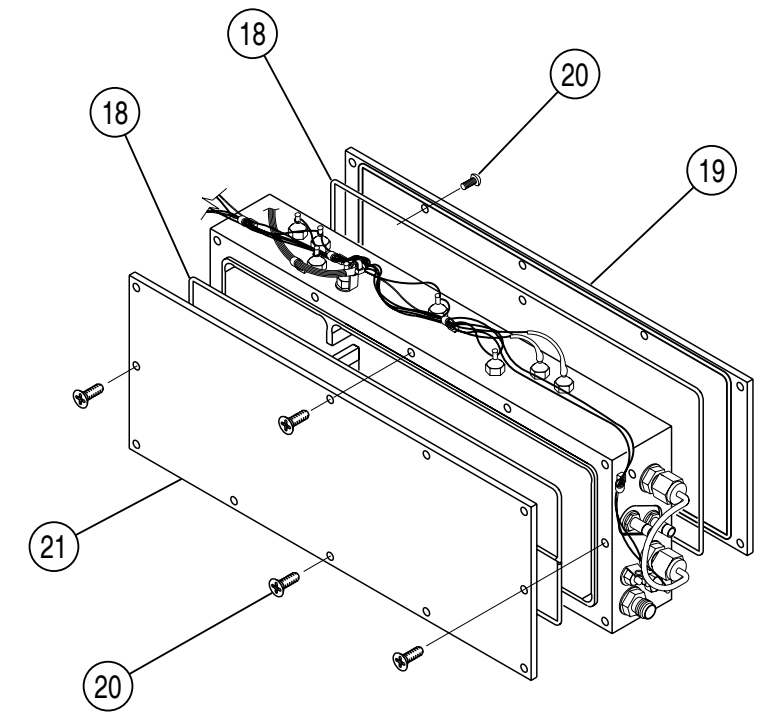
85409001

(0000-8540-900-A)

Figure 42 RF Assy (Sheet 2 of 23)
(Interconnect Diagram)



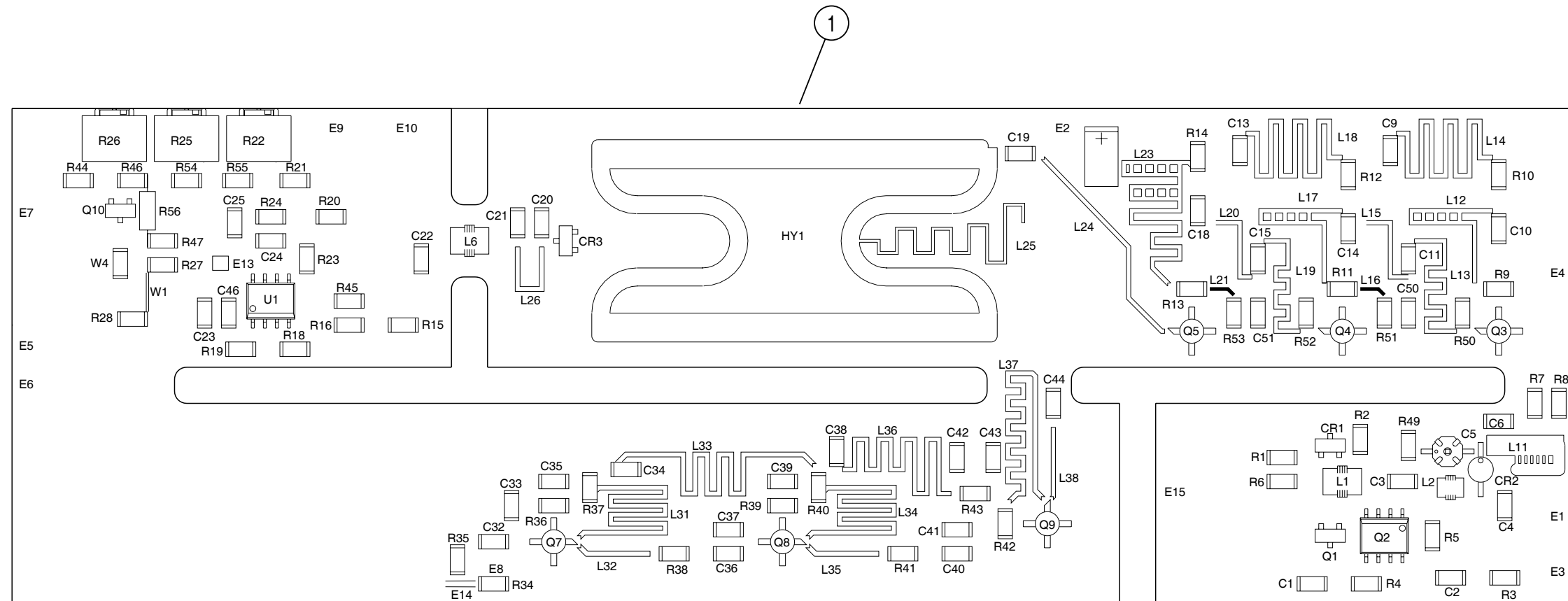
DETAIL A



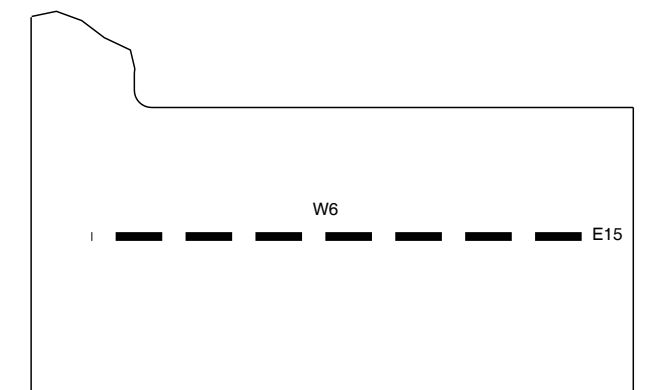
(7005-8540-200-F2)

Figure 42 RF Assy (Sheet 3 of 23)
(SSB Assy - Sheet 1 of 9)

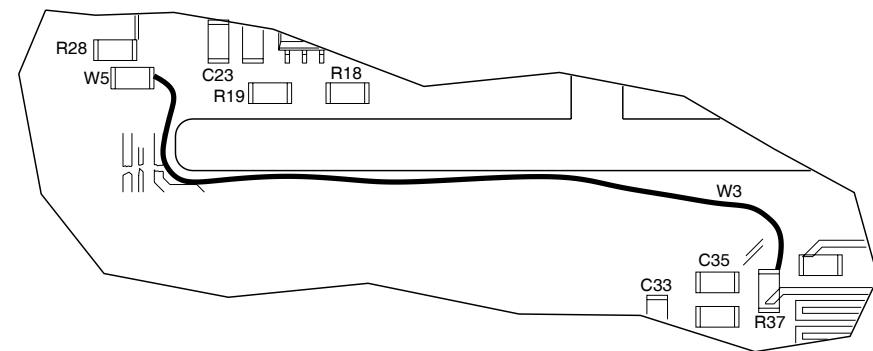
8540200M



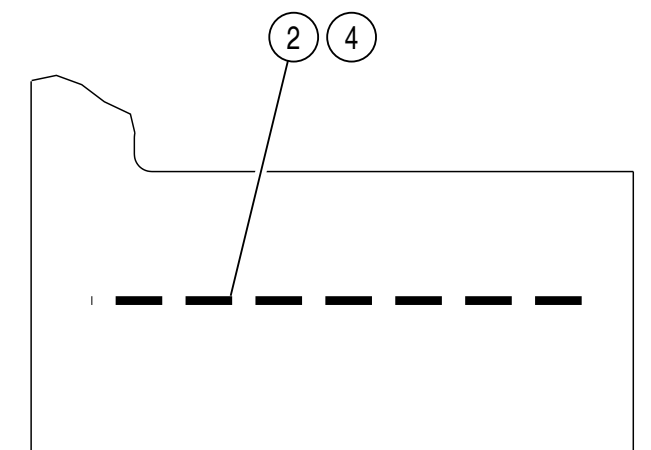
TOP VIEW



BOTTOM VIEW



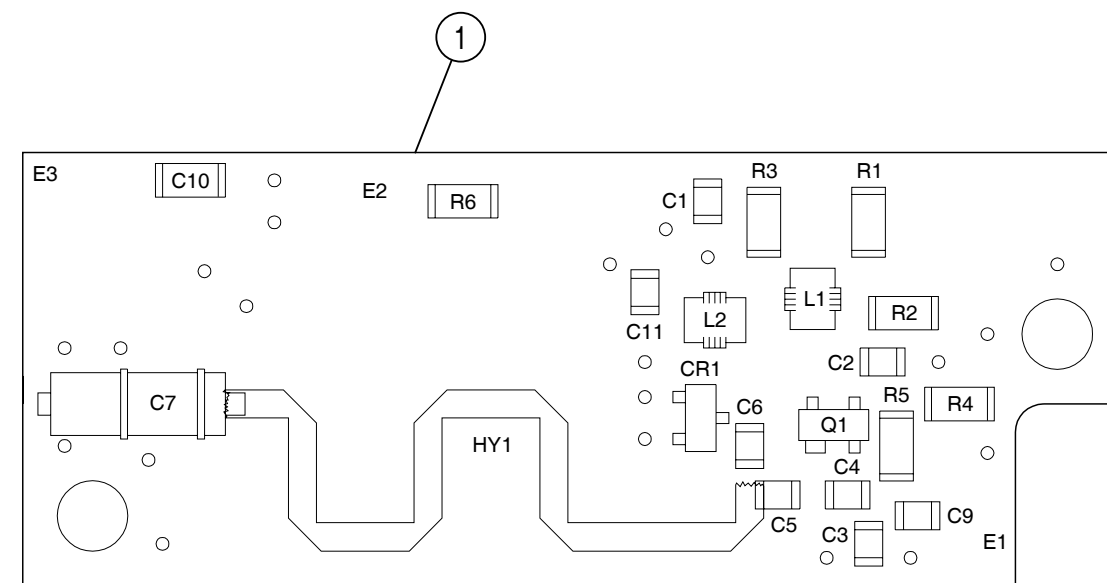
(REV C1 AND C2 ONLY)



(REV C1 ONLY)

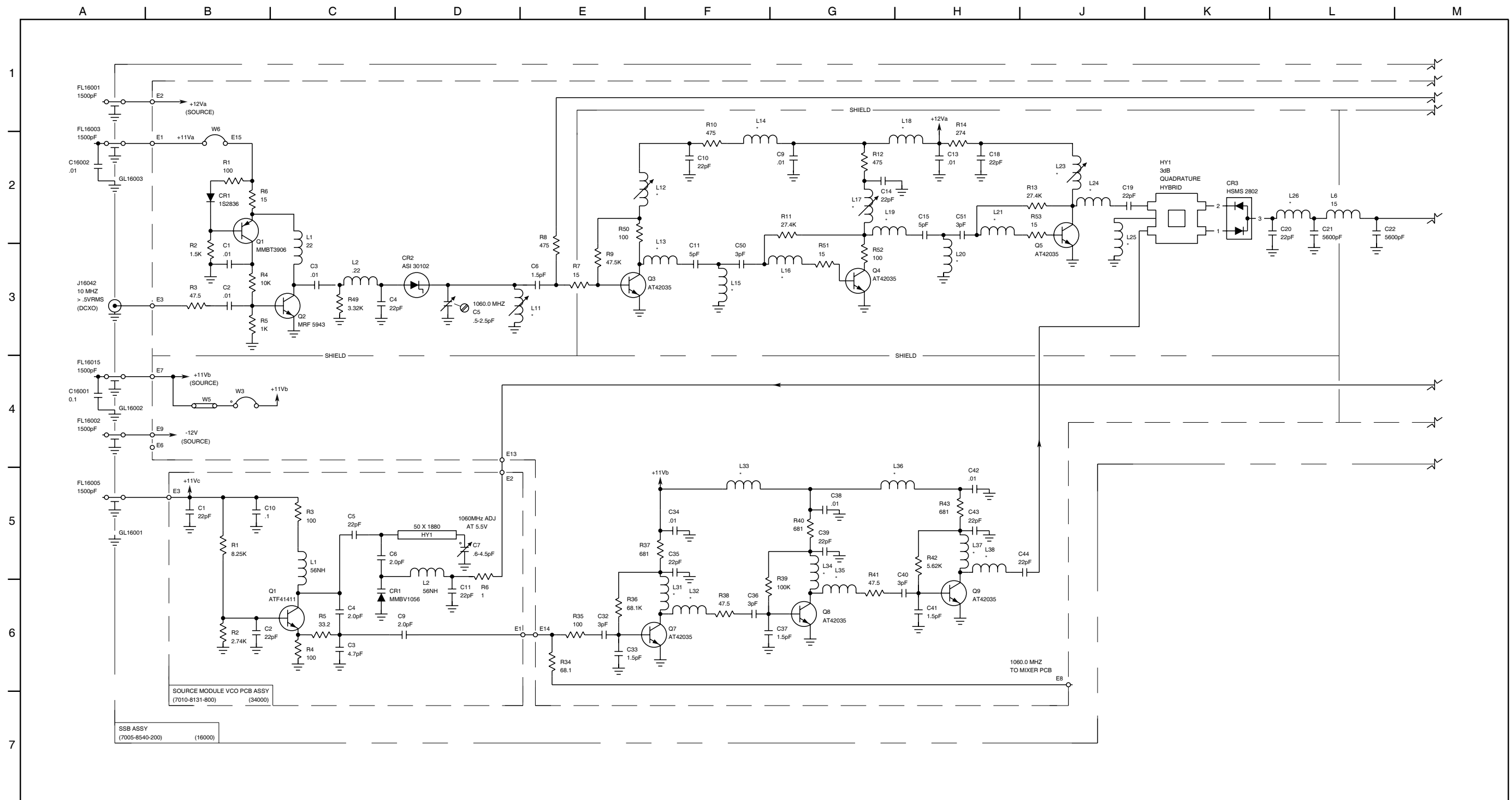
(7010-8132-300-E)

8132300P
Figure 42 RF Assy (Sheet 4 of 23)
(SSB Assy - Sheet 2 of 9)
(LO Source PCB Assy)



(7010-8131-800-E)

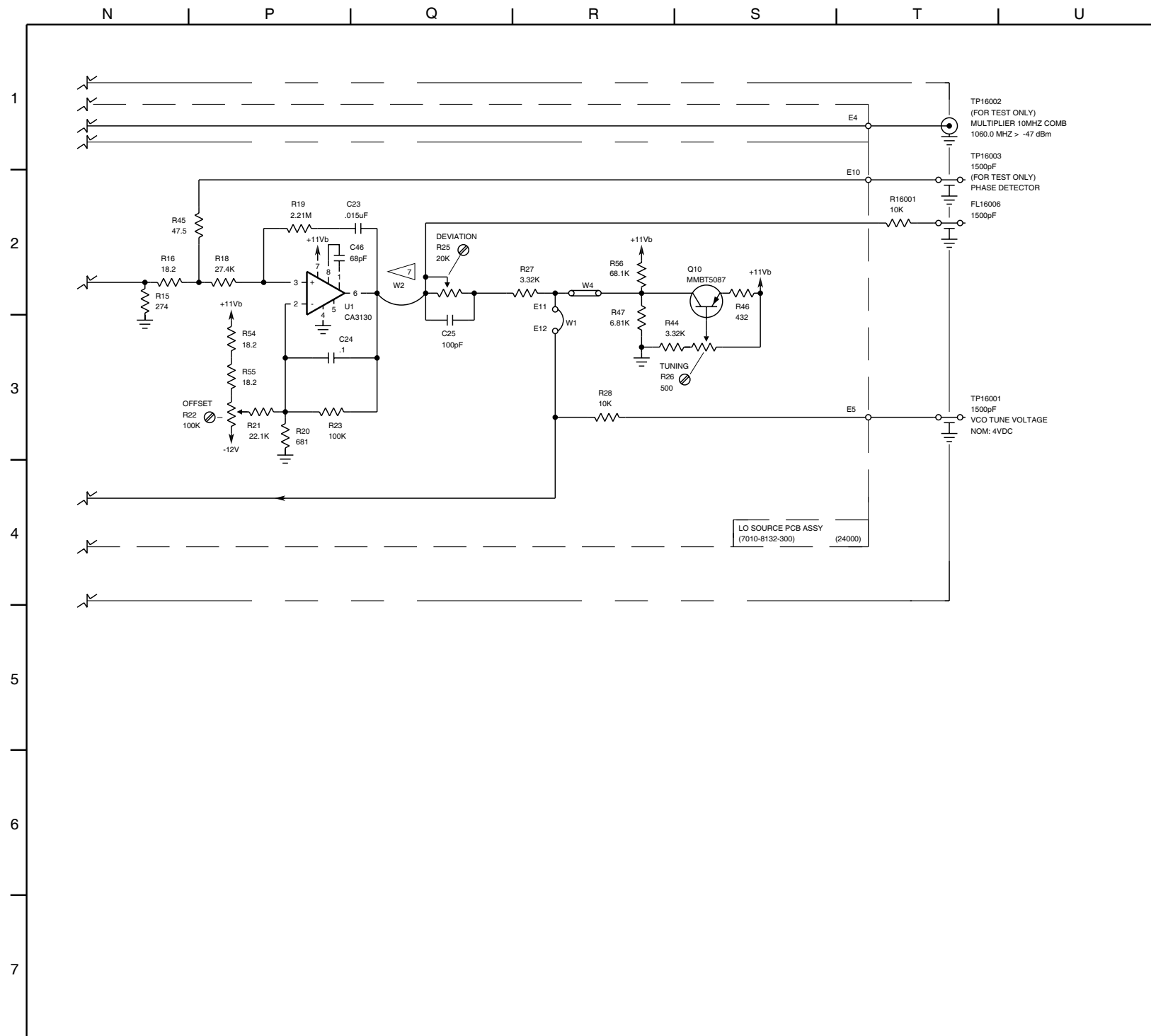
8533000P
Figure 42 RF Assy (Sheet 5 of 23)
(SSB Assy - Sheet 3 of 9)
(Source Module VCO PCB Assy)



8132301S

Figure 42 RF Assy (Sheet 6 of 23)
(SSB Assy - Sheet 4 of 9)
(Circuit Schematic - Sheet 1 of 2)

(0000-8132-300-C)



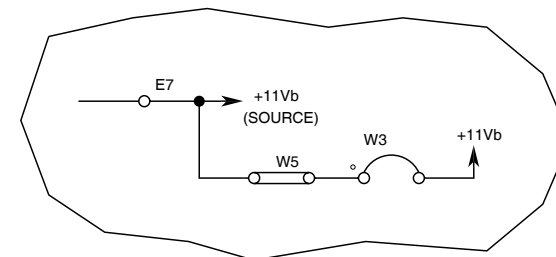
CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

NOTES:
(UNLESS OTHERWISE SPECIFIED)

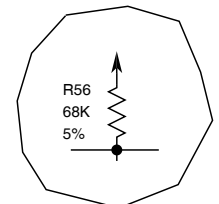
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS SCHEMATIC CARRIES SERIES:
7005-8540-200 16000 (e.g., R1 IS R16001)
7010-8132-300 24000 (e.g., R1 IS R24001)
7010-8131-800 34000 (e.g., R1 IS R34001)
2. ALL RESISTORS ARE 1/8 W, 1% TOLERANCE.
3. ALL RESISTANCE IS EXPRESSED IN OHMS.
4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
6. NOT USED

7 W2 IS THE LEAD OF R16001.

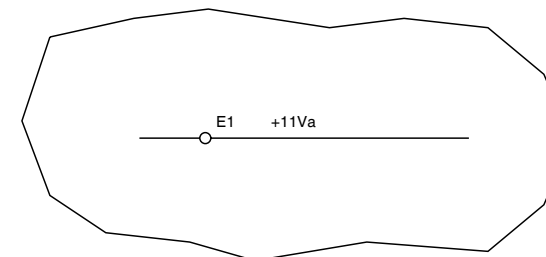
* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



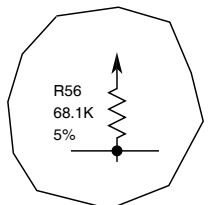
(REV A)



(REV A)



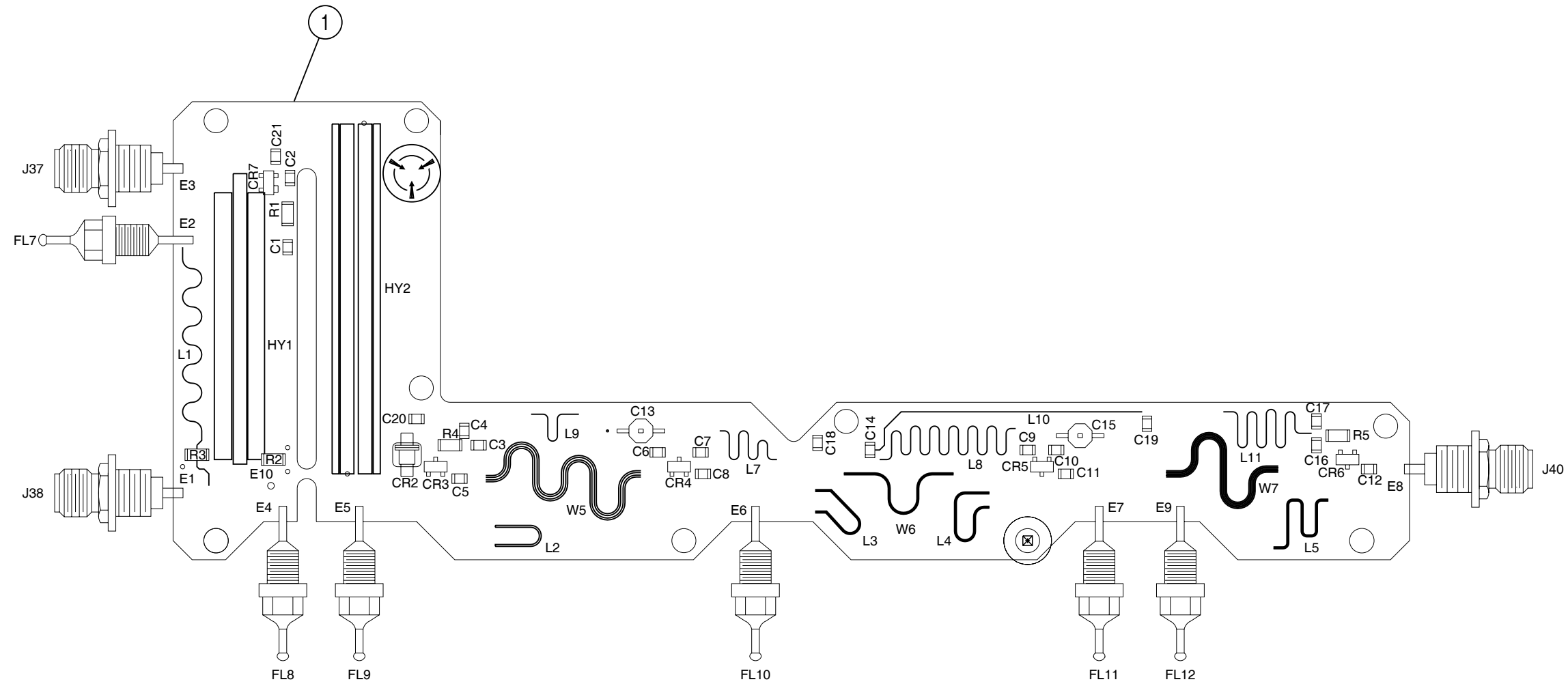
(REV A)



(REV B)

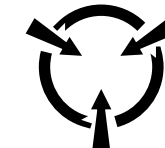
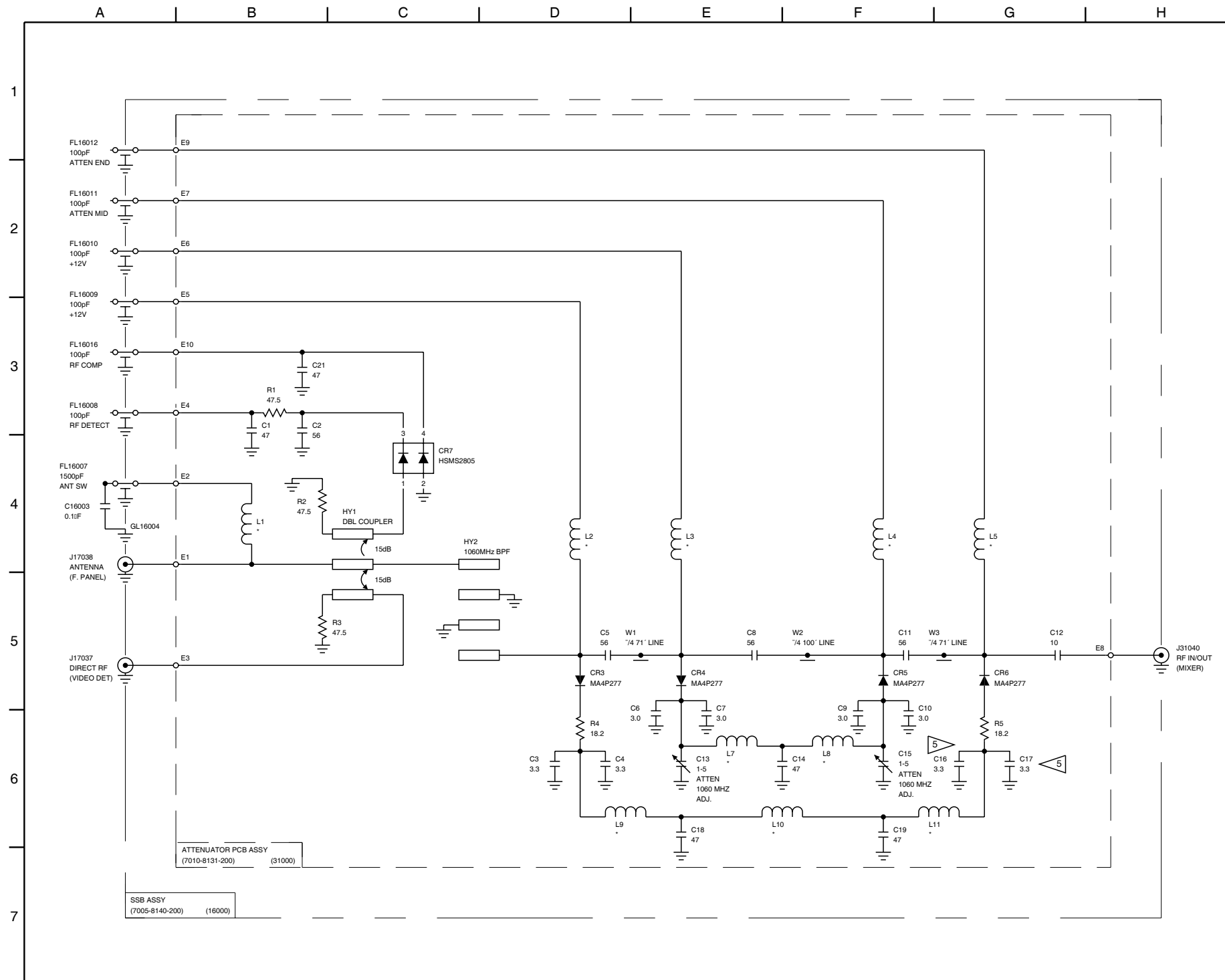
(0000-8132-300-C)

8132302S
Figure 42 RF Assy (Sheet 7 of 23)
(SSB Assy - Sheet 5 of 9)
(Circuit Schematic - Sheet 2 of 2)



(7010-8131-200-A)

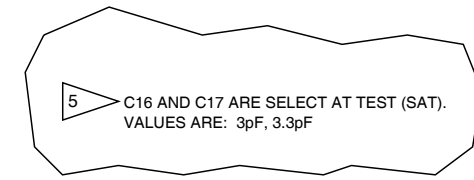
8131200P
Figure 42 RF Assy (Sheet 8 of 23)
(SSB Assy - Sheet 6 of 9)
(Attenuator PCB Assy - Sheet 1 of 2)



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

- NOTES:
(UNLESS OTHERWISE SPECIFIED)
- ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS SCHEMATIC CARRIES SERIES:
7005-8540-200 16000 (e.g., C1 IS C16001)
7010-8131-200 31000 (e.g., R1 IS R31001)
 - ALL RESISTORS ARE 1/8 W, 1% TOLERANCE.
 - ALL RESISTANCE IS EXPRESSED IN OHMS.
 - ALL CAPACITANCE IS EXPRESSED IN PICOFARADS.
 - C16 AND C17 ARE SELECT AT TEST (SAT).
VALUES ARE: 3pF, 3.3pF, 3.9pF

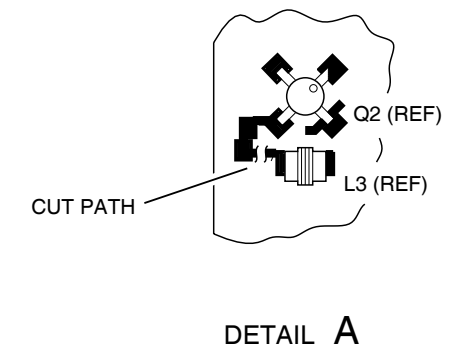
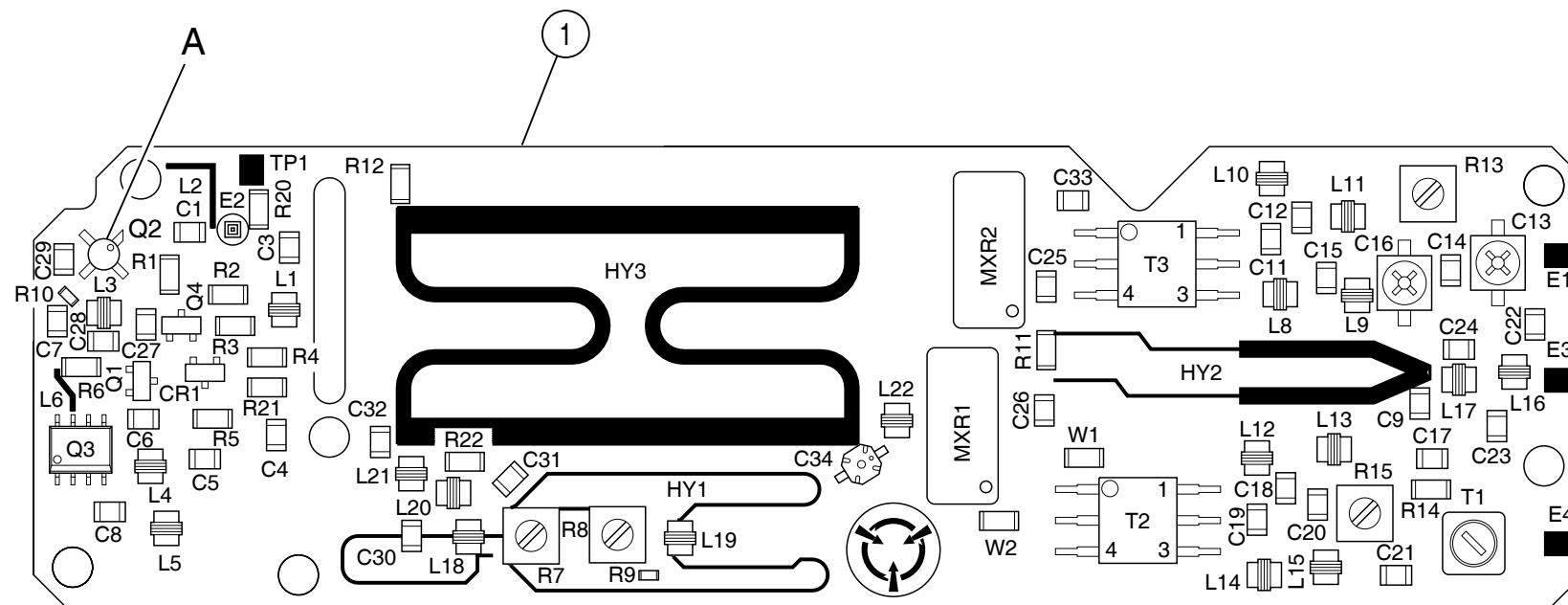
* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



(REV A AND B ONLY)

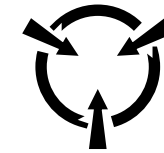
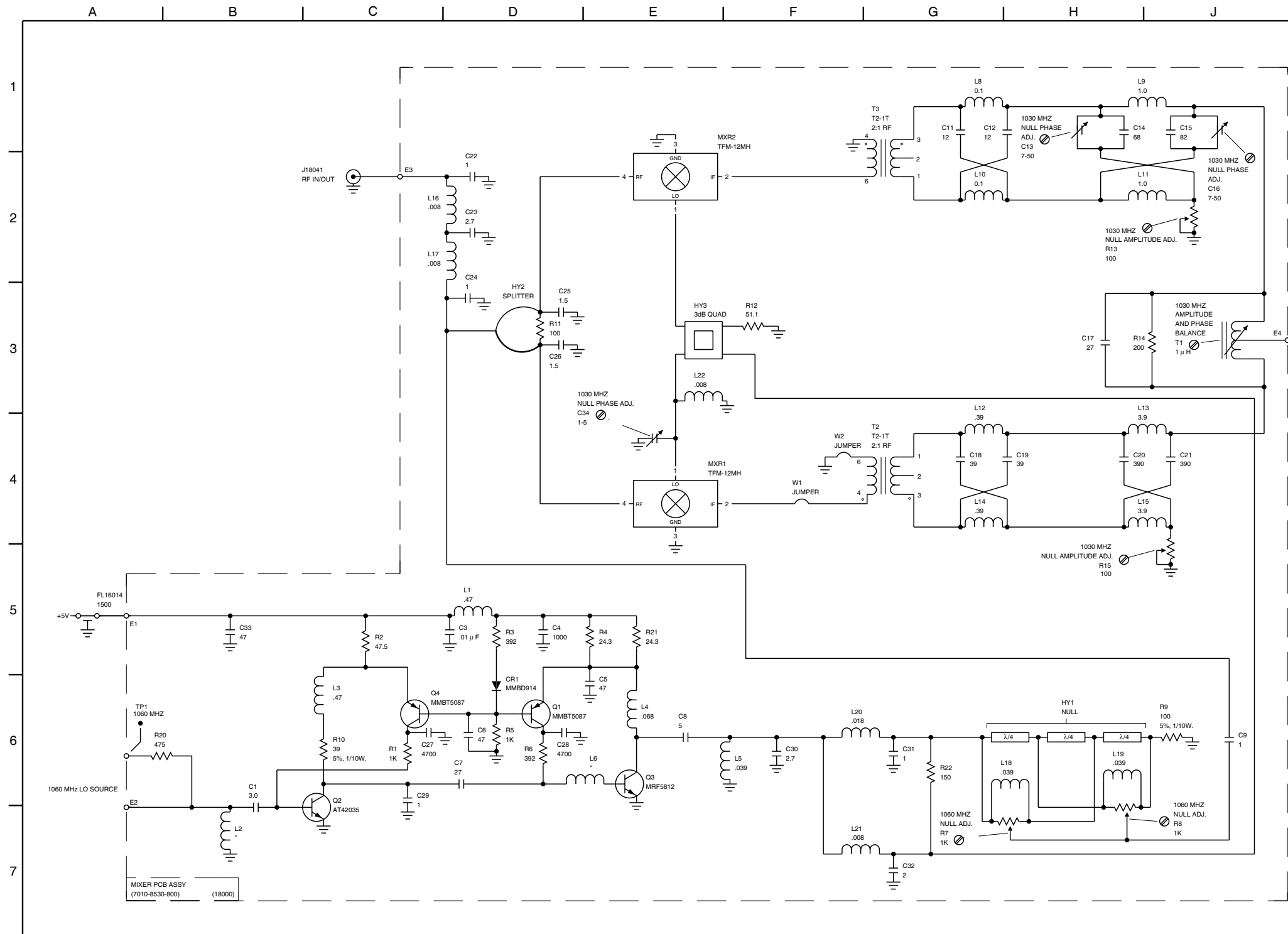
(0000-8131-200-C)

8131200S
Figure 42 RF Assy (Sheet 9 of 23)
(SSB Assy - Sheet 7 of 9)
(Attenuator PCB Assy - Sheet 2 of 2)
(Circuit Schematic)



(7010-8530-800-D1)

8530800P
Figure 42 RF Assy (Sheet 10 of 23)
(SSB Assy - Sheet 8 of 9)
(Mixer PCB Assy - Sheet 1 of 2)



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

NOTES:

(UNLESS OTHERWISE SPECIFIED)

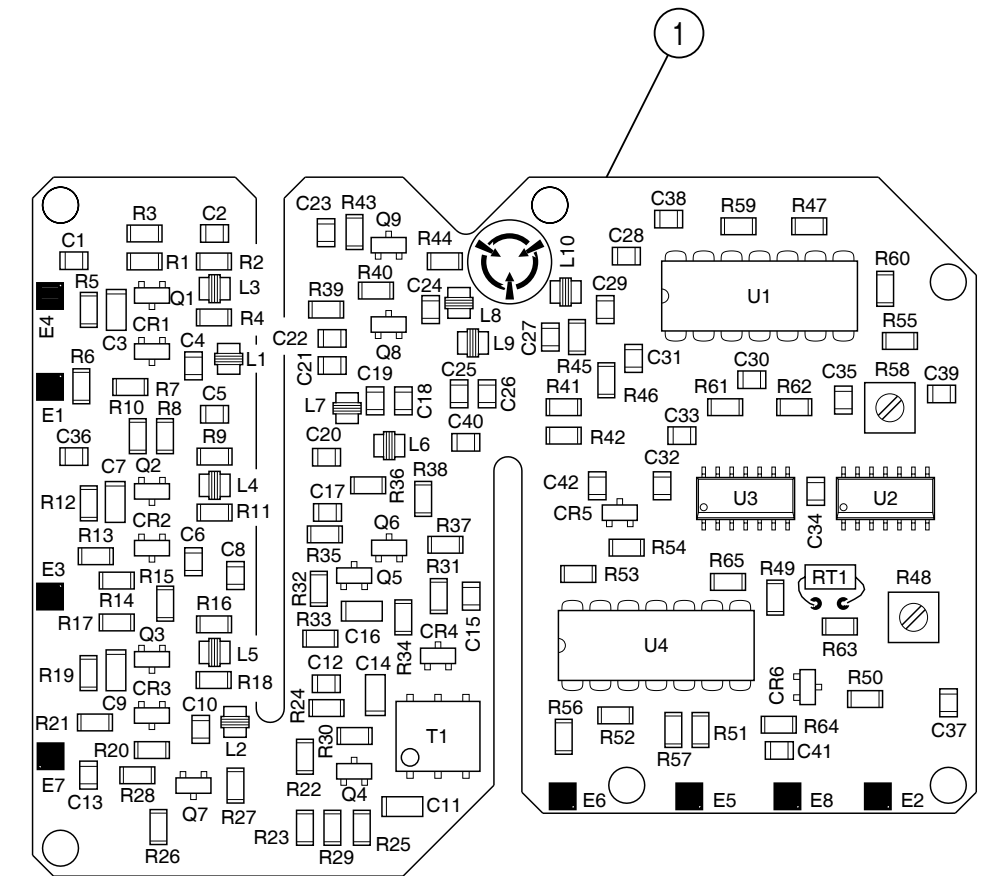
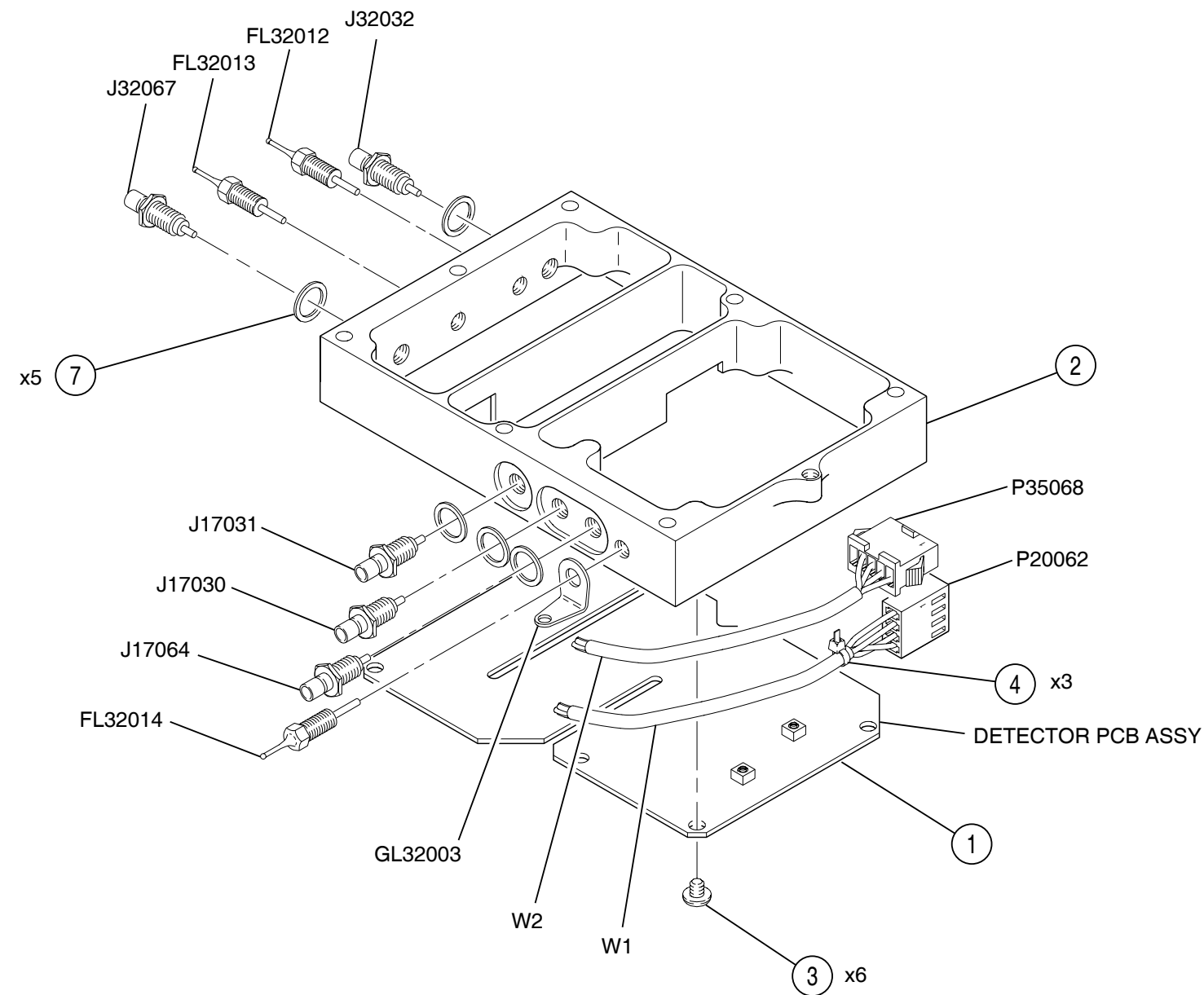
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS SCHEMATIC CARRIES SERIES:
7005-8540-200 16000 (e.g., C1 IS C16001)
7010-8530-800 18000 (e.g., R1 IS R18001)
2. ALL RESISTORS ARE 1/8 W, 1% TOLERANCE.
3. ALL RESISTANCE IS EXPRESSED IN OHMS.
4. ALL CAPACITANCE IS EXPRESSED IN PICOFARADS.
5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.

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

8530800S

Figure 42 RF Assy (Sheet 11 of 23)
(SSB Assy - Sheet 9 of 9)
(Mixer PCB Assy - Sheet 2 of 2)
(Circuit Schematic)

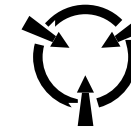
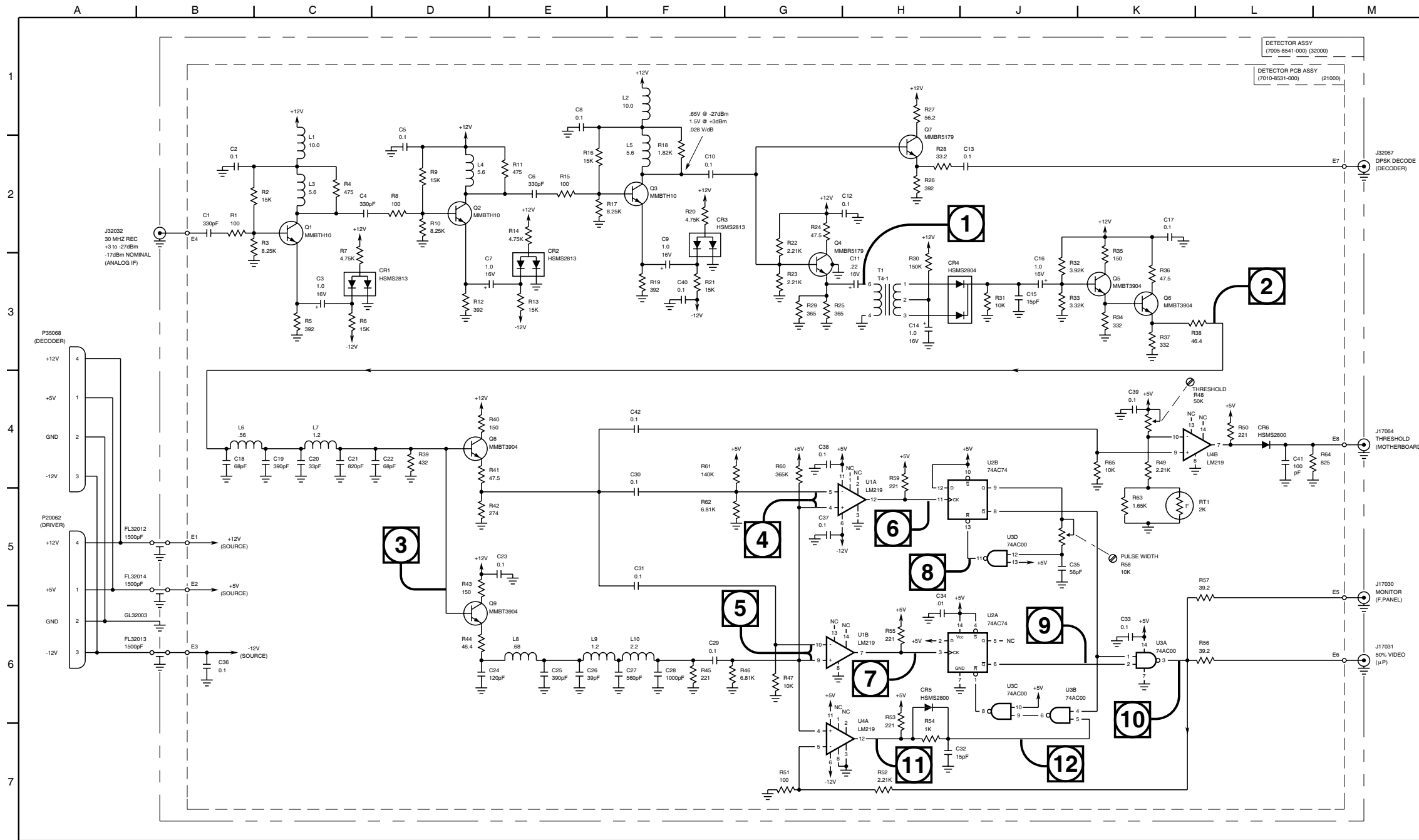
(0000-8530-800-D)



DETECTOR PCB ASSY

(7005-8541-000-B) (7010-8531-000-C3)

Figure 42 RF Assy (Sheet 12 of 23)
(Detector Assy - Sheet 1 of 3)
(Detector PCB Assy)



CAUTION:

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

NOTES:

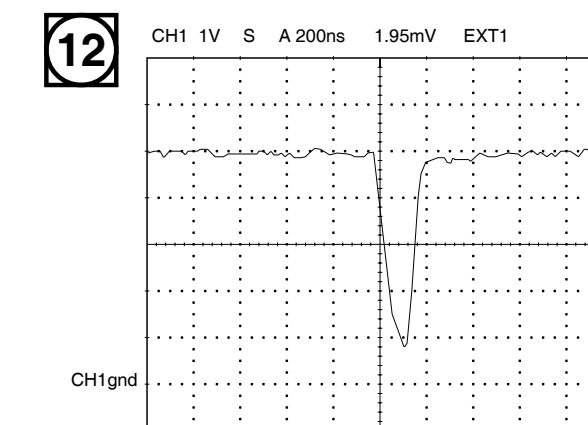
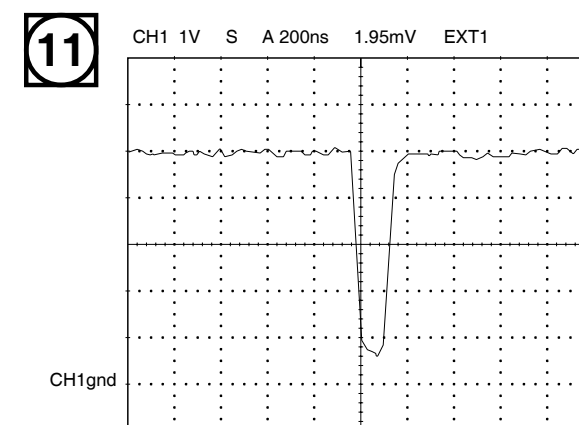
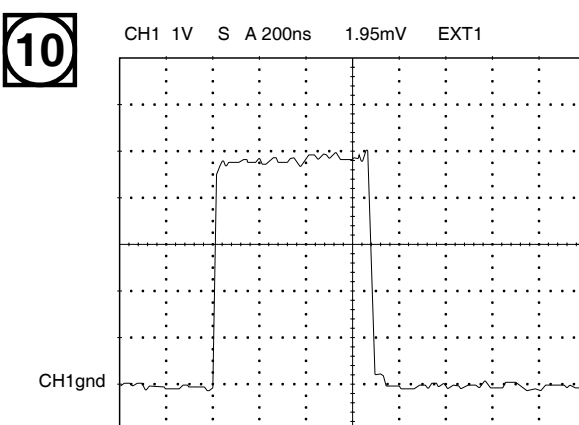
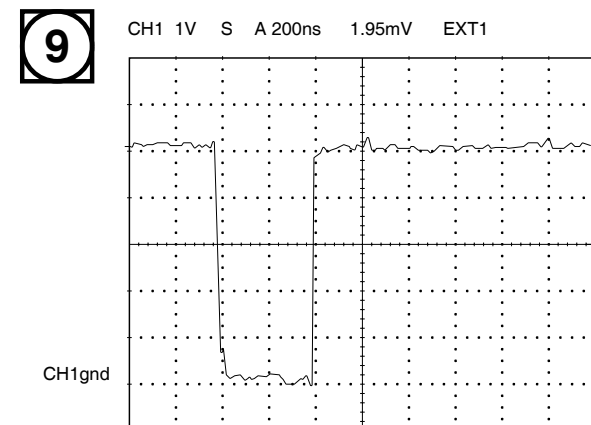
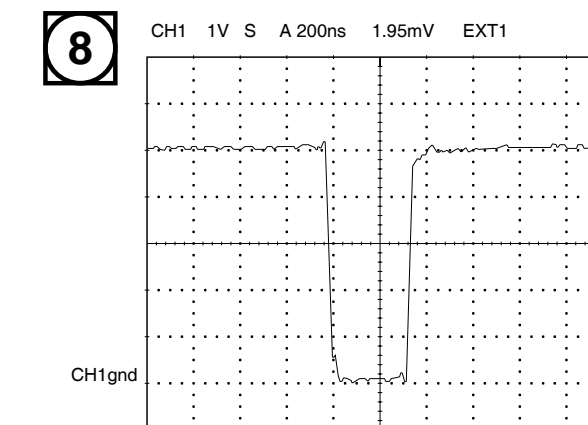
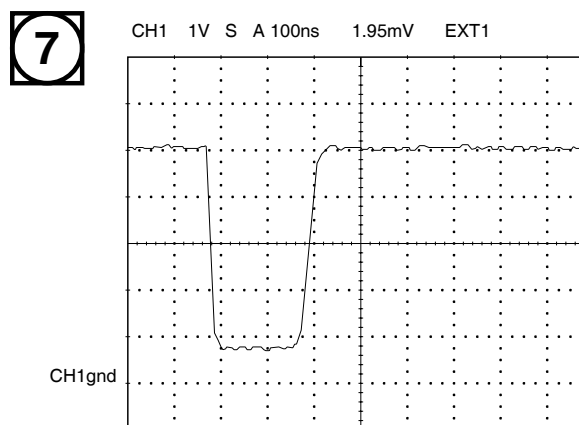
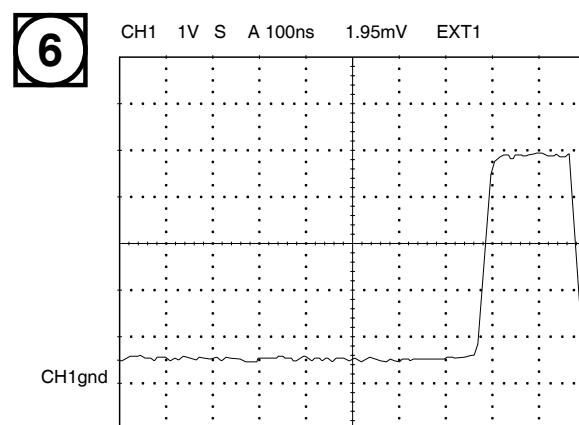
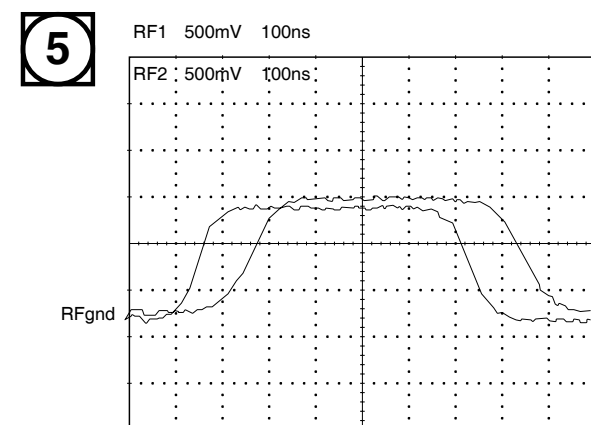
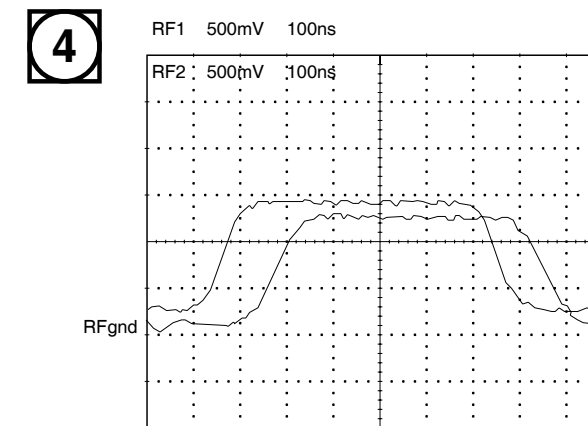
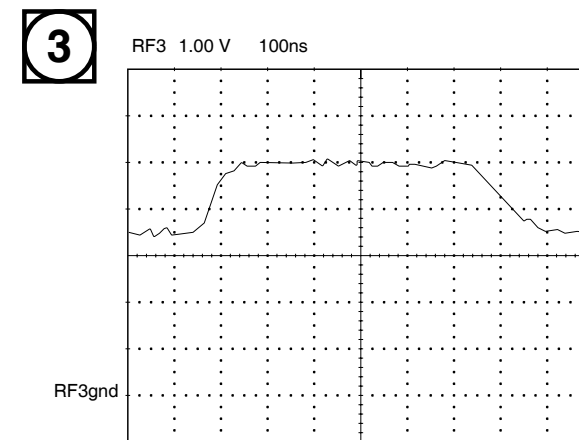
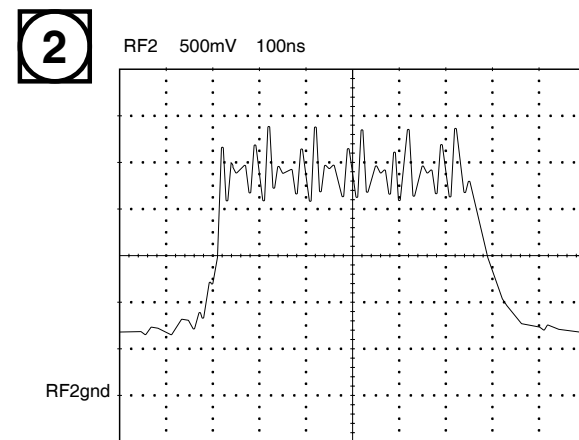
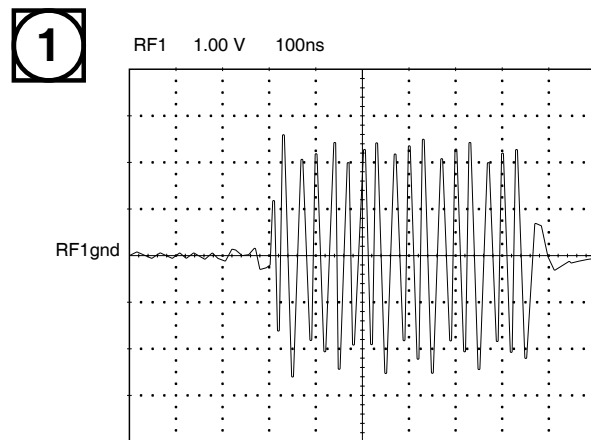
(UNLESS OTHERWISE SPECIFIED)

1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7005-8541-000 32000 (e.g. FL1 IS FL32001)
7010-8531-000 21000 (e.g., R1 IS R21001)
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.

8541002S

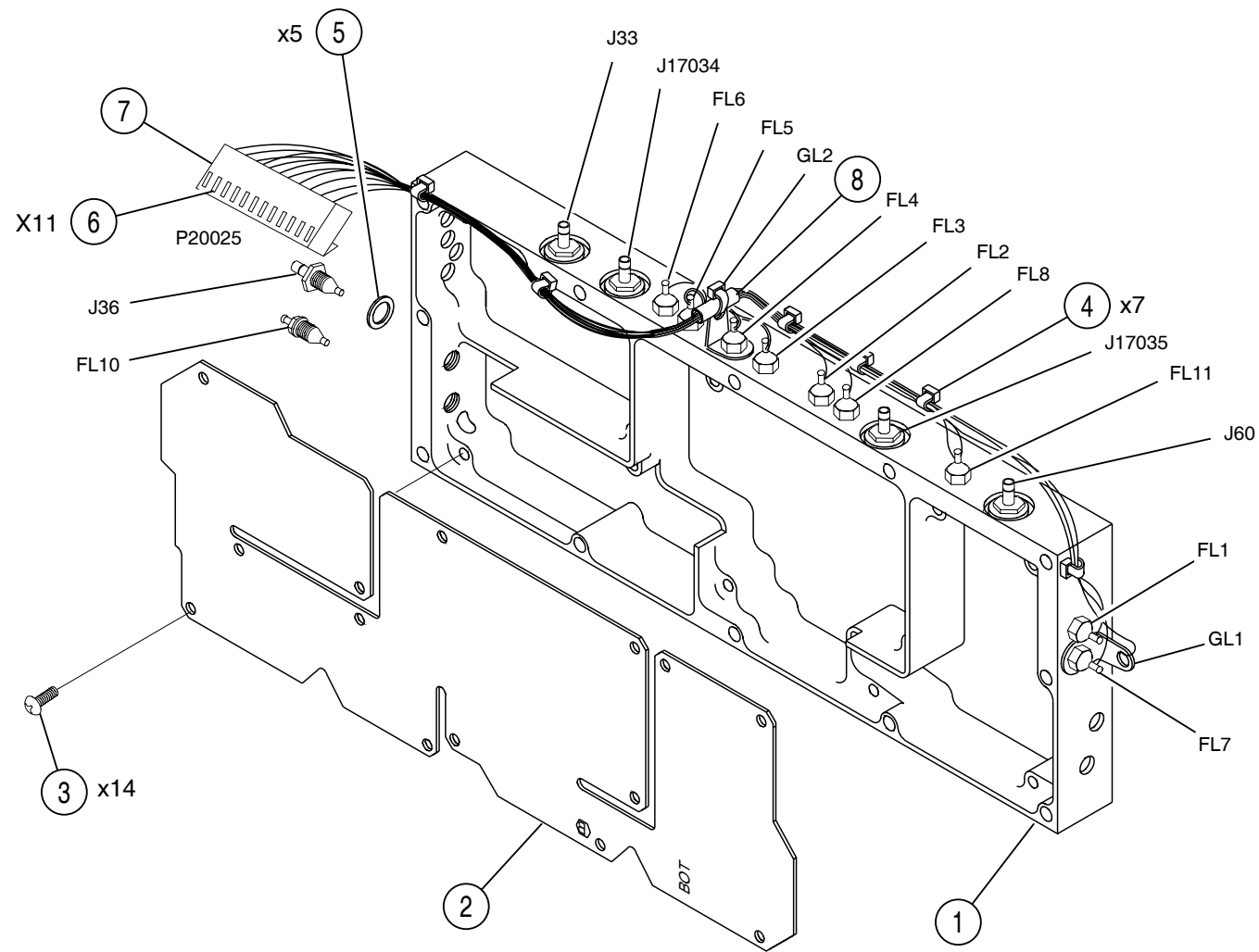
Figure 42 RF Assy (Sheet 13 of 23)
(Detector Assy - Sheet 2 of 3)
(Circuit Schematic - Sheet 1 of 2)

(0000-8541-000-C)

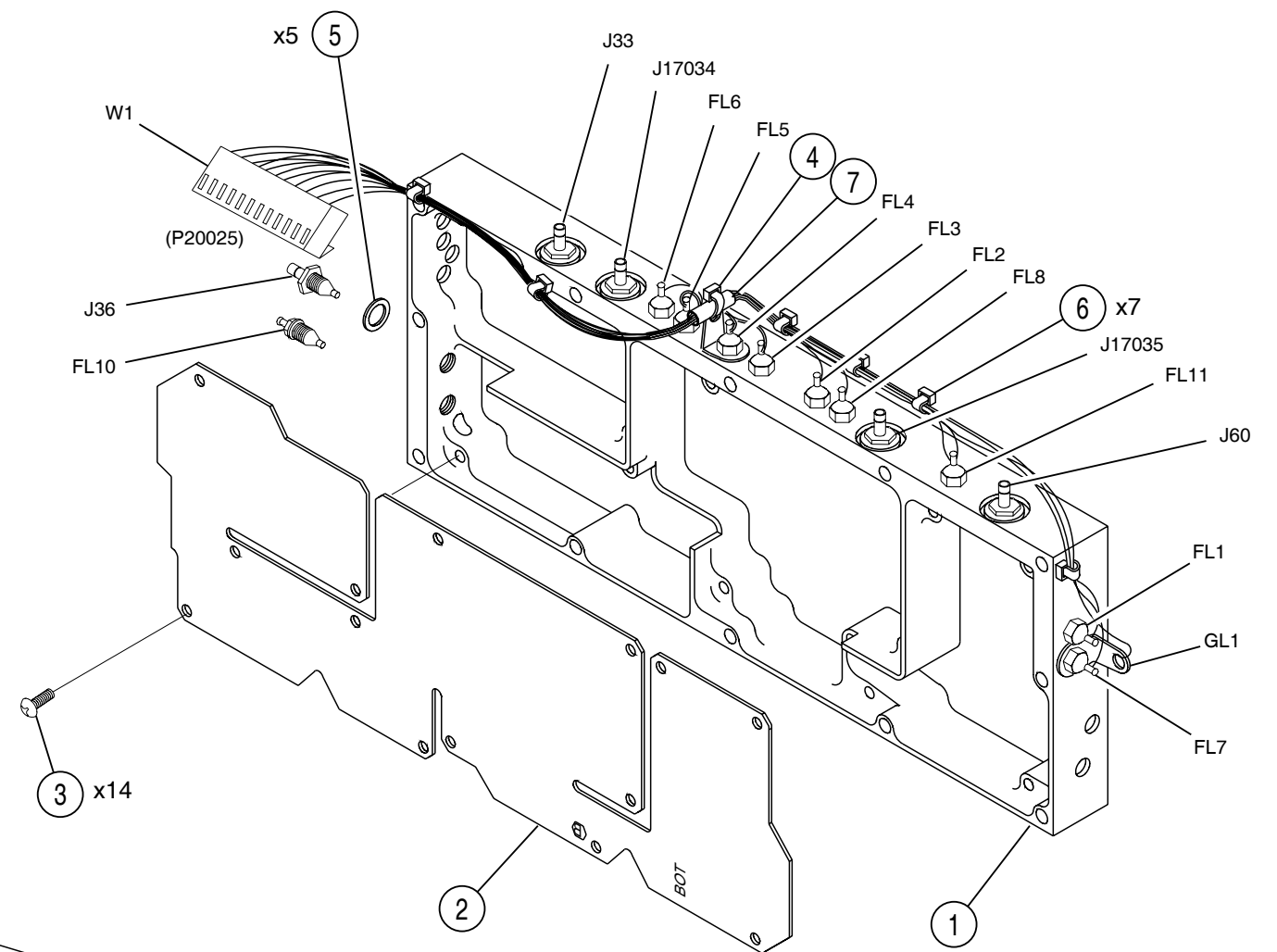


(0000-8541-000-C)

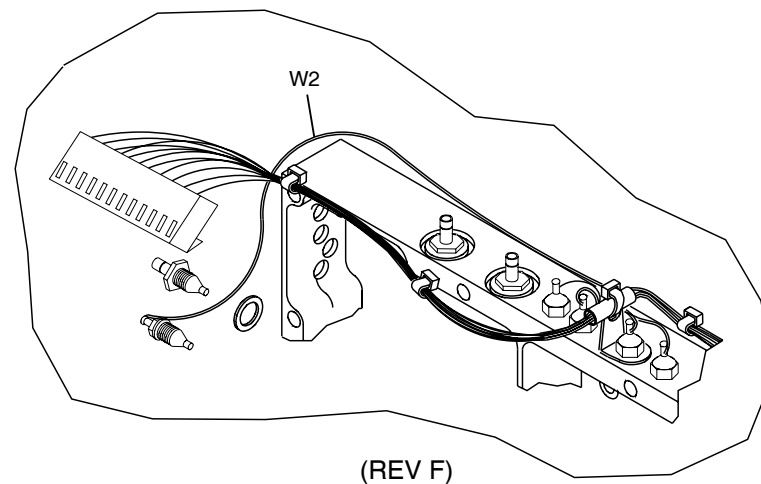
8541001S
Figure 42 RF Assy (Sheet 14 of 23)
(Detector Assy - Sheet 3 of 3)
(Circuit Schematic - Sheet 2 of 2)



(REV D1)



(REV E AND ON)

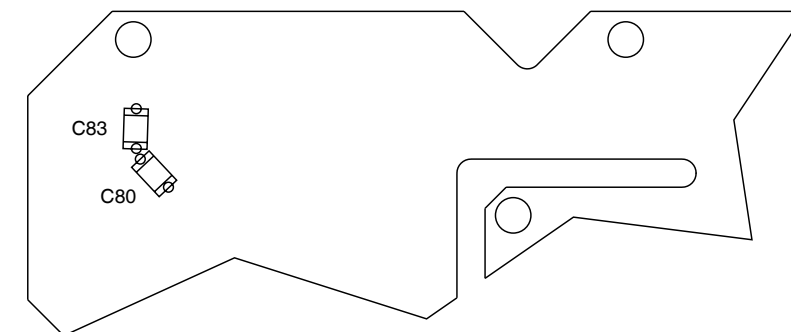
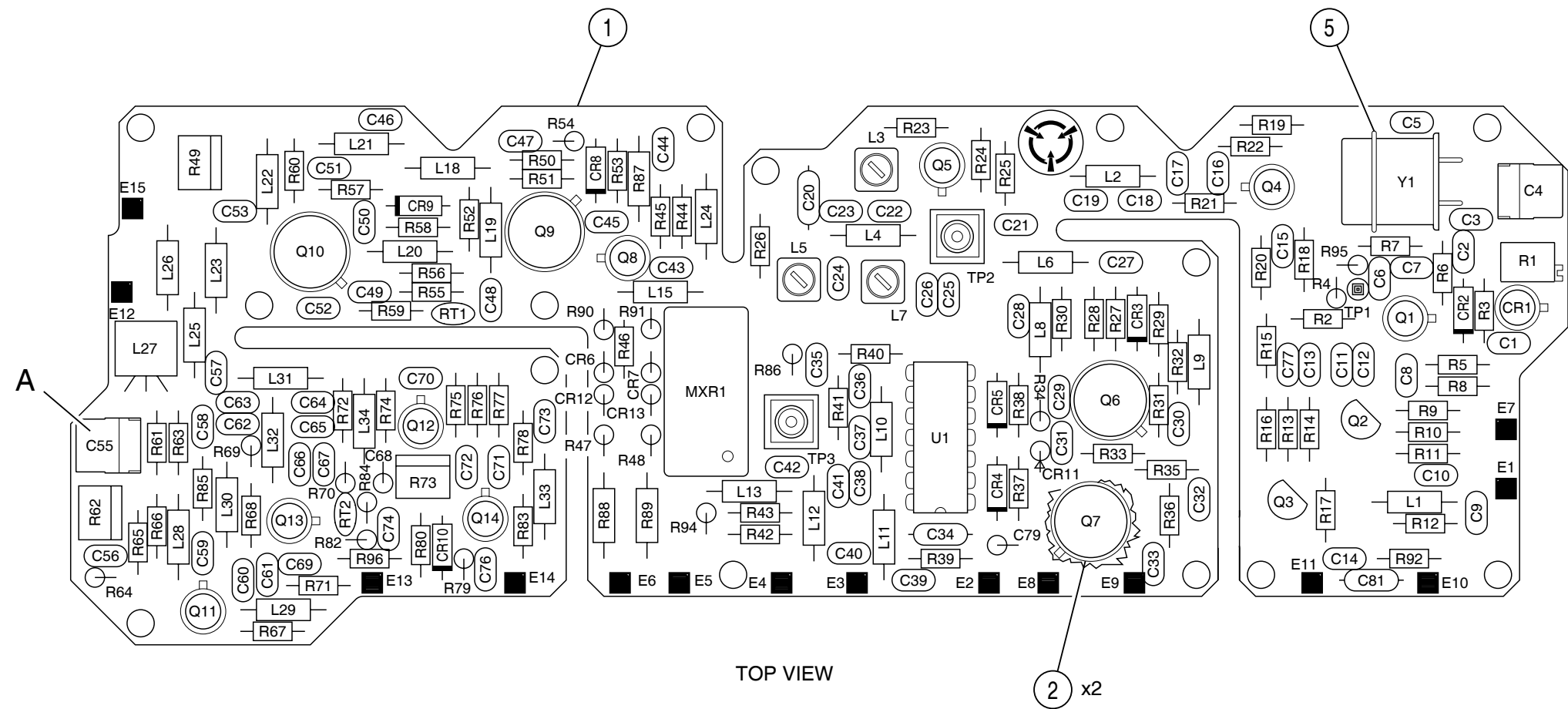


(REV F)

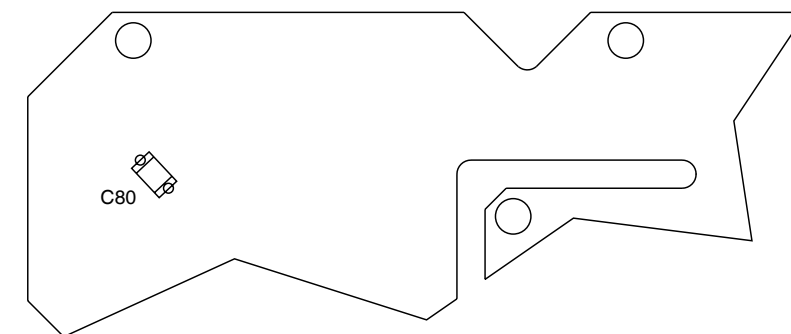
(7005-8541-100-F)

085M-09

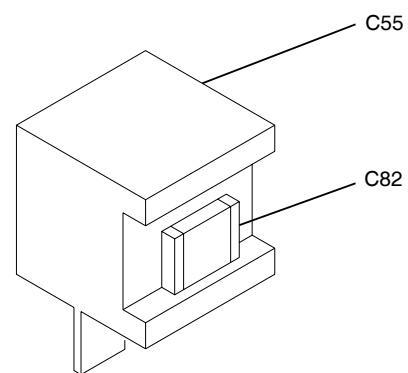
Figure 42 RF Assy (Sheet 15 of 23)
(Analog IF Assy - Sheet 1 of 4)



BOTTOM VIEW



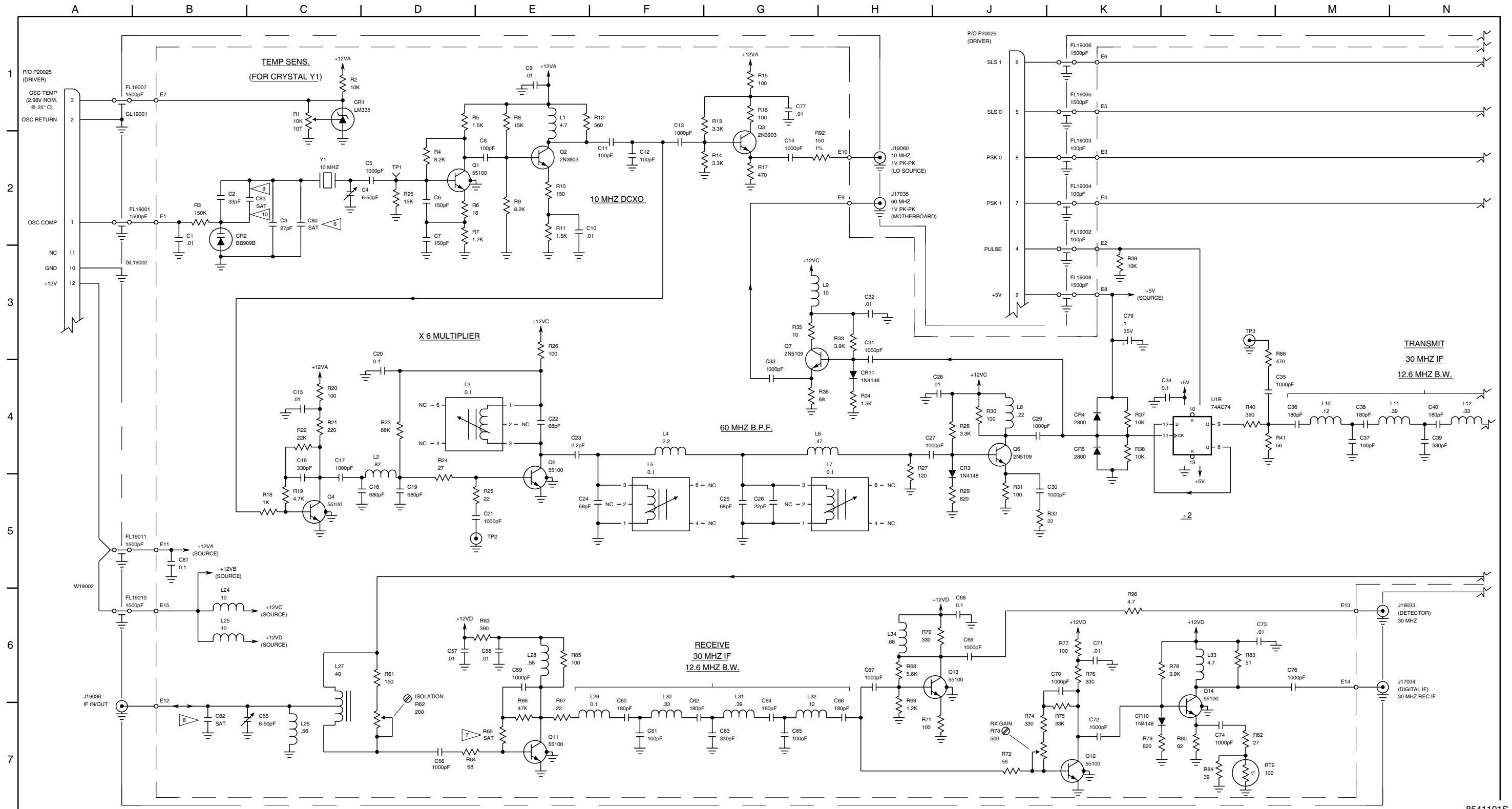
BOTTOM VIEW
(REV E)



DETAIL A

(7010-8531-100-F1)

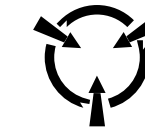
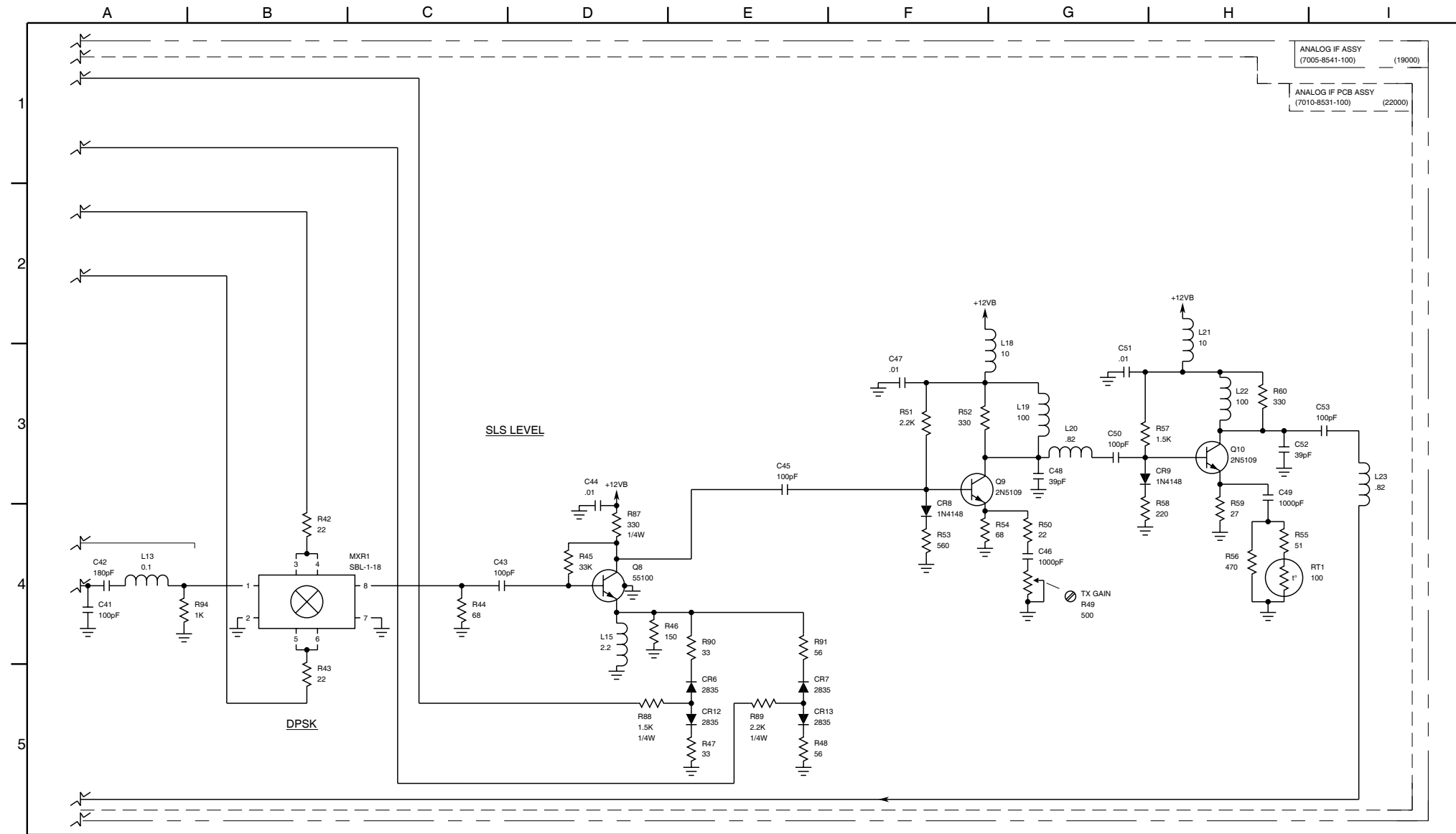
8531100P
Figure 42 RF Assy (Sheet 16 of 23)
(Analog IF Assy - Sheet 2 of 4)
(Analog IF PCB Assy)



85411015

Figure 42 RF Ass'y (Sheet 17 of 23)
(Analog IF Ass'y - Sheet 3 of 4)
(Circuit Schematic - Sheet 1 of 2)

(0000-8541-100-F2)



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:

7005-8541-100 19000 (e.g., FL1 IS FL19001)
7010-8531-100 22000 (e.g., R1 IS R22001)

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

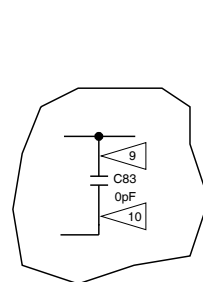
6 C80 IS SELECT AT TEST (SAT).
RANGE: 0pF, 1pF, 2pF, 3pF, 3.9pF, 5pF

7 R65 IS SELECT AT TEST (SAT).
RANGE: 220, 270, 330, 390, 470, 560, 680 (OHMS)

8 C82 IS SELECT AT TEST (SAT).
RANGE: 0pF, 12pF, 18pF, 22pF, 27pF, 33pF

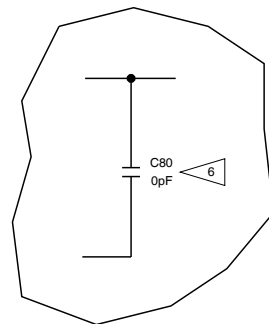
9 C83 IS SELECT AT TEST (SAT).
RANGE: 0pF, 1pF, 2pF, 3pF, 3.9pF, 5pF

10 REV F AND ON ONLY.



- 6 C80 IS SELECT AT TEST (SAT).
NOMINAL: 0pF
RANGE: 0pF TO 4pF
- 9 C83 IS SELECT AT TEST (SAT).
NOMINAL: 0pF
RANGE: 0pF, 1pF, 2pF, 3pF, 3.9pF, 5pF

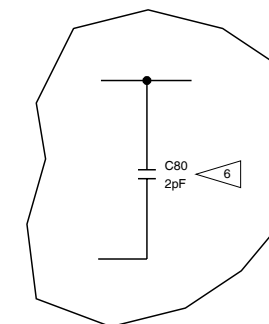
(REV F AND F1)



- 7 R65 IS SELECT AT TEST (SAT).
NOMINAL: 330
RANGE: 220 TO 680

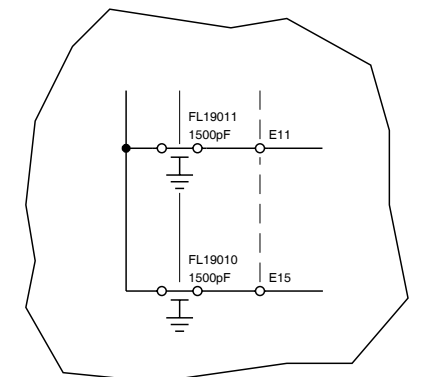
- 8 C82 IS SELECT AT TEST (SAT).
NOMINAL: 22pF
RANGE: 0pF TO 33pF

(REV D2, E, F, AND F1)



- 6 C80 IS SELECT AT TEST (SAT).
NOMINAL: 2pF
RANGE: 0pF TO 4pF

(REV D2 AND E)



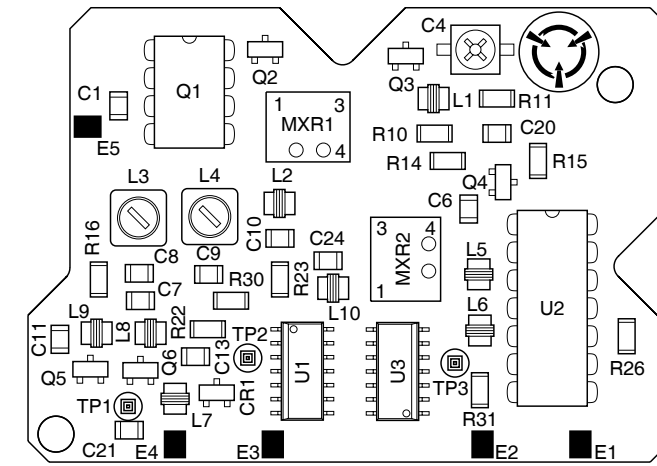
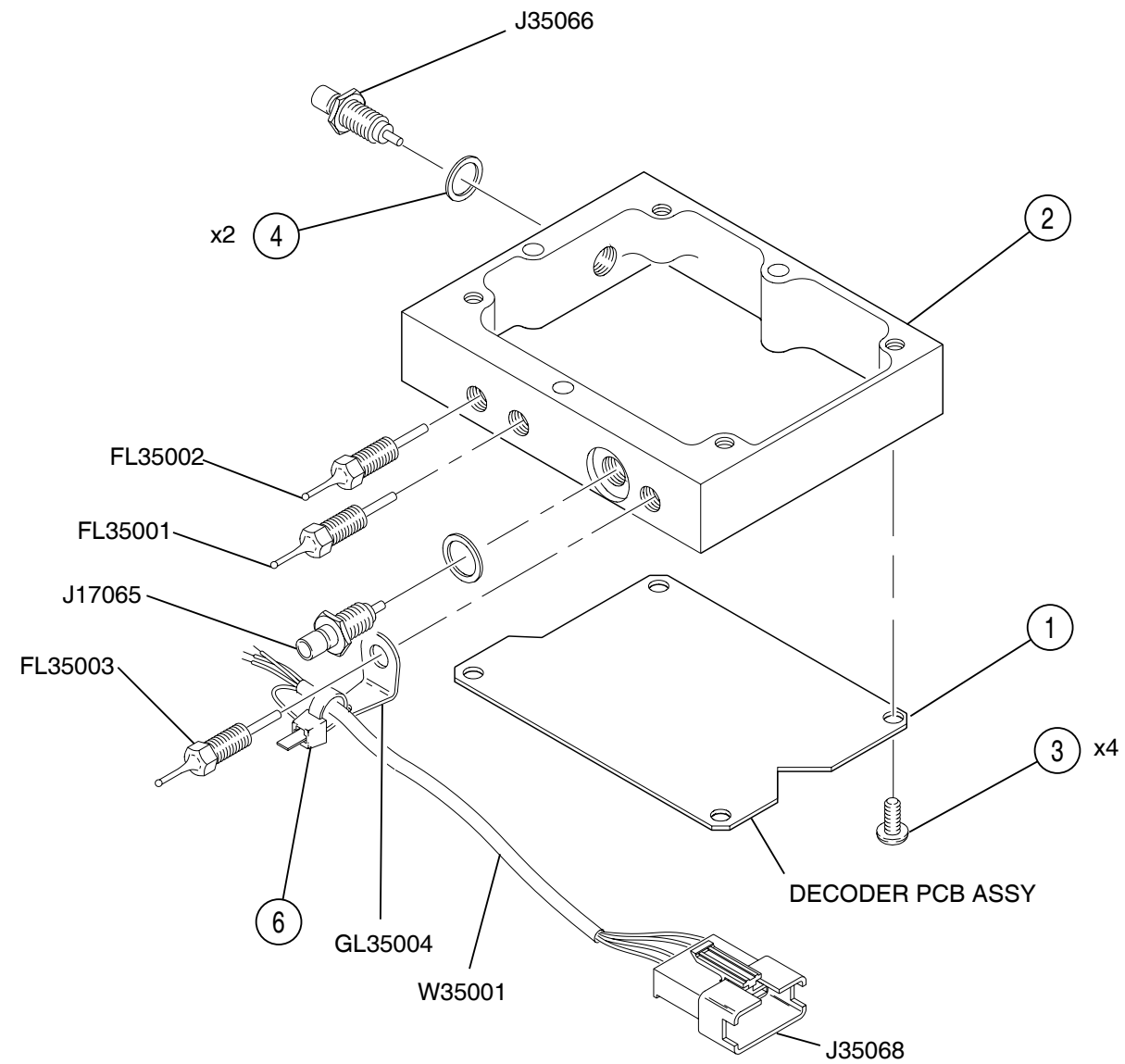
(REV F1 AND ON)

(REV F1 AND ON)

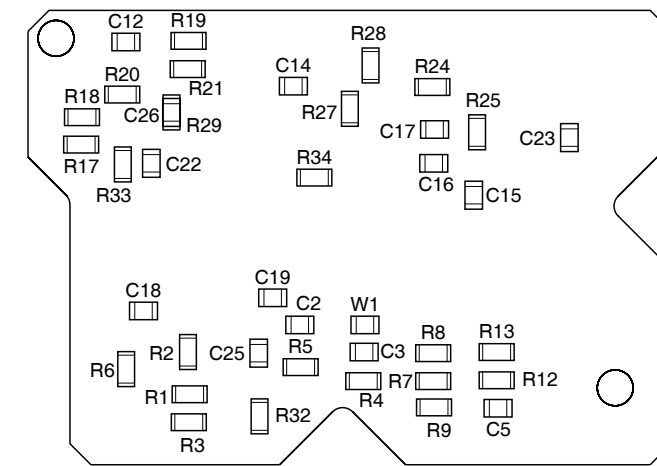
(0000-8541-100-F2)

Figure 42 RF Assy (Sheet 18 of 23)
(Analog IF Assy - Sheet 4 of 4)
(Circuit Schematic - Sheet 2 of 2)

8541102S



TOP VIEW

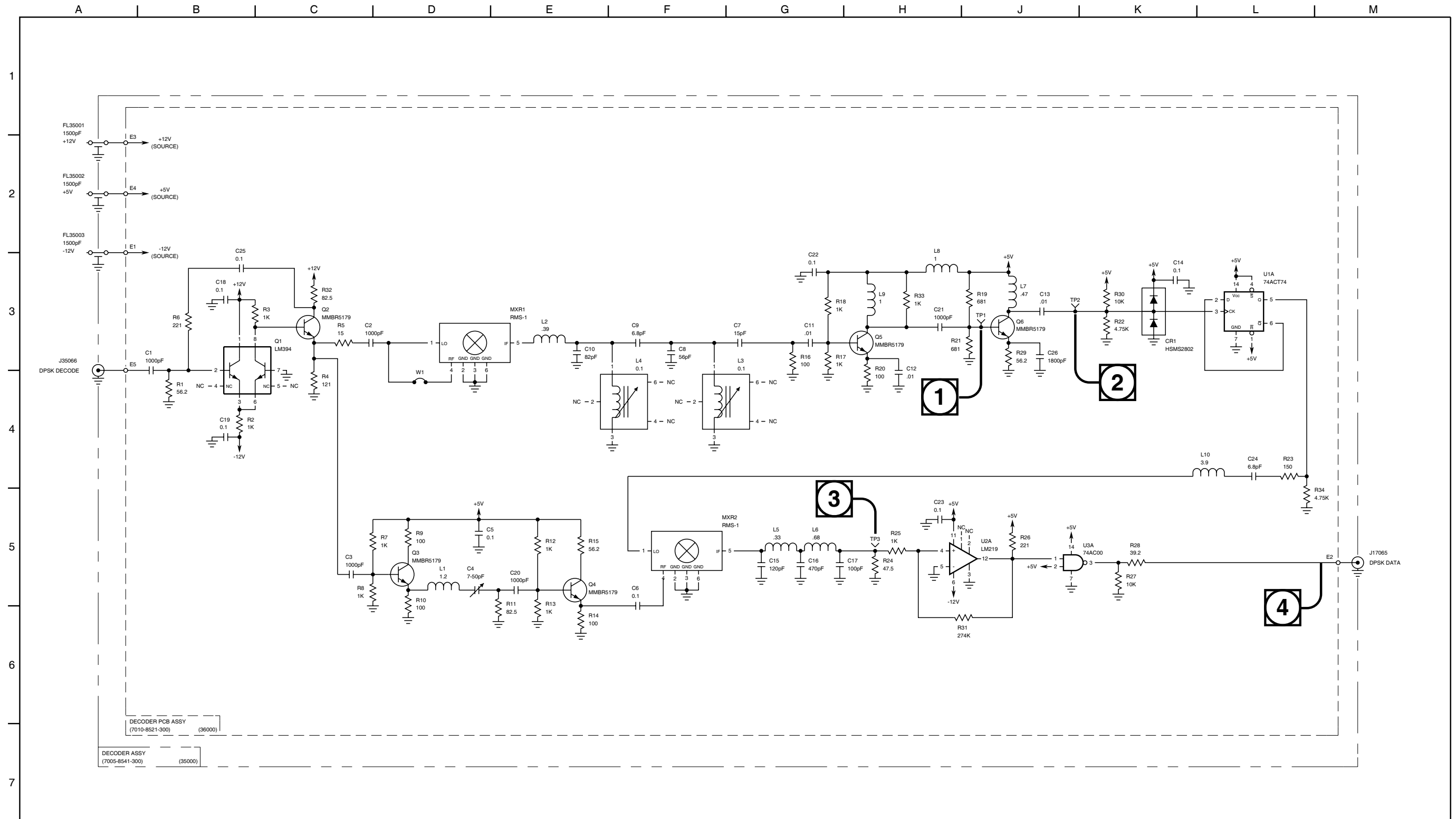


BOTTOM VIEW

DECODER PCB ASSY

(7005-8541-300-B) (7010-8531-300-C4)

085M-08
Figure 42 RF Assy (Sheet 19 of 23)
(Decoder Assy - Sheet 1 of 3)
(Decoder PCB Assy)

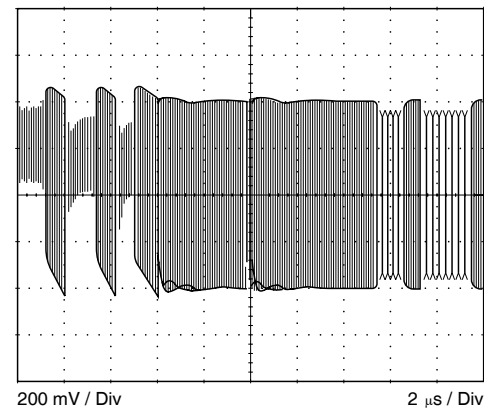


8541301S

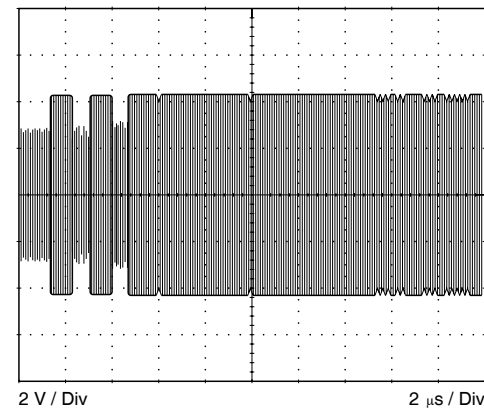
Figure 42 RF Assy (Sheet 20 of 23)
(Decoder Assy - Sheet 2 of 3)
(Circuit Schematic - Sheet 1 of 2)

(0000-8541-300-C2)

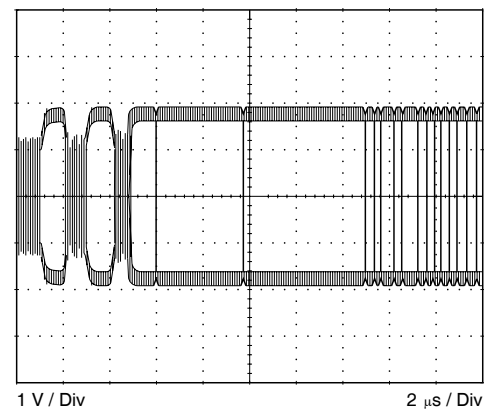
1



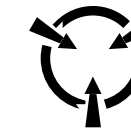
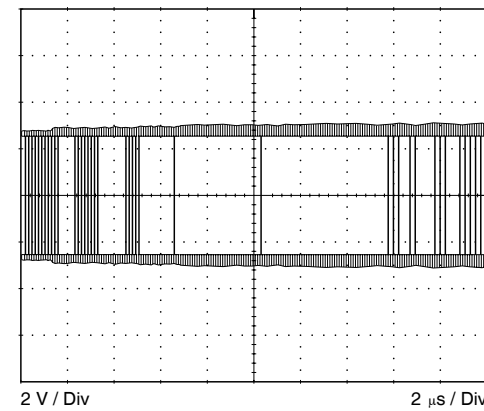
2



3



4



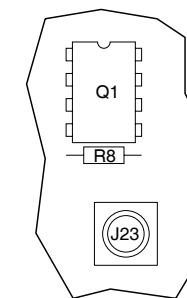
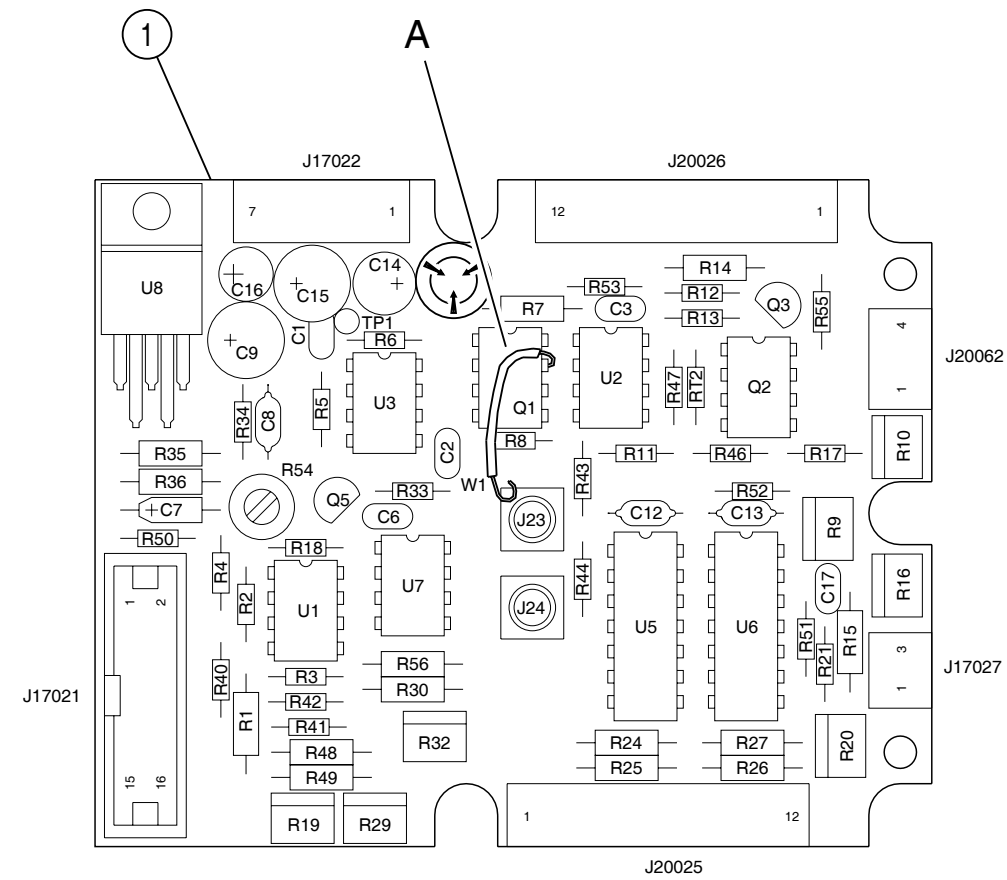
CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

NOTES:
(UNLESS OTHERWISE SPECIFIED)

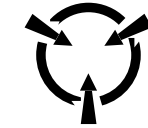
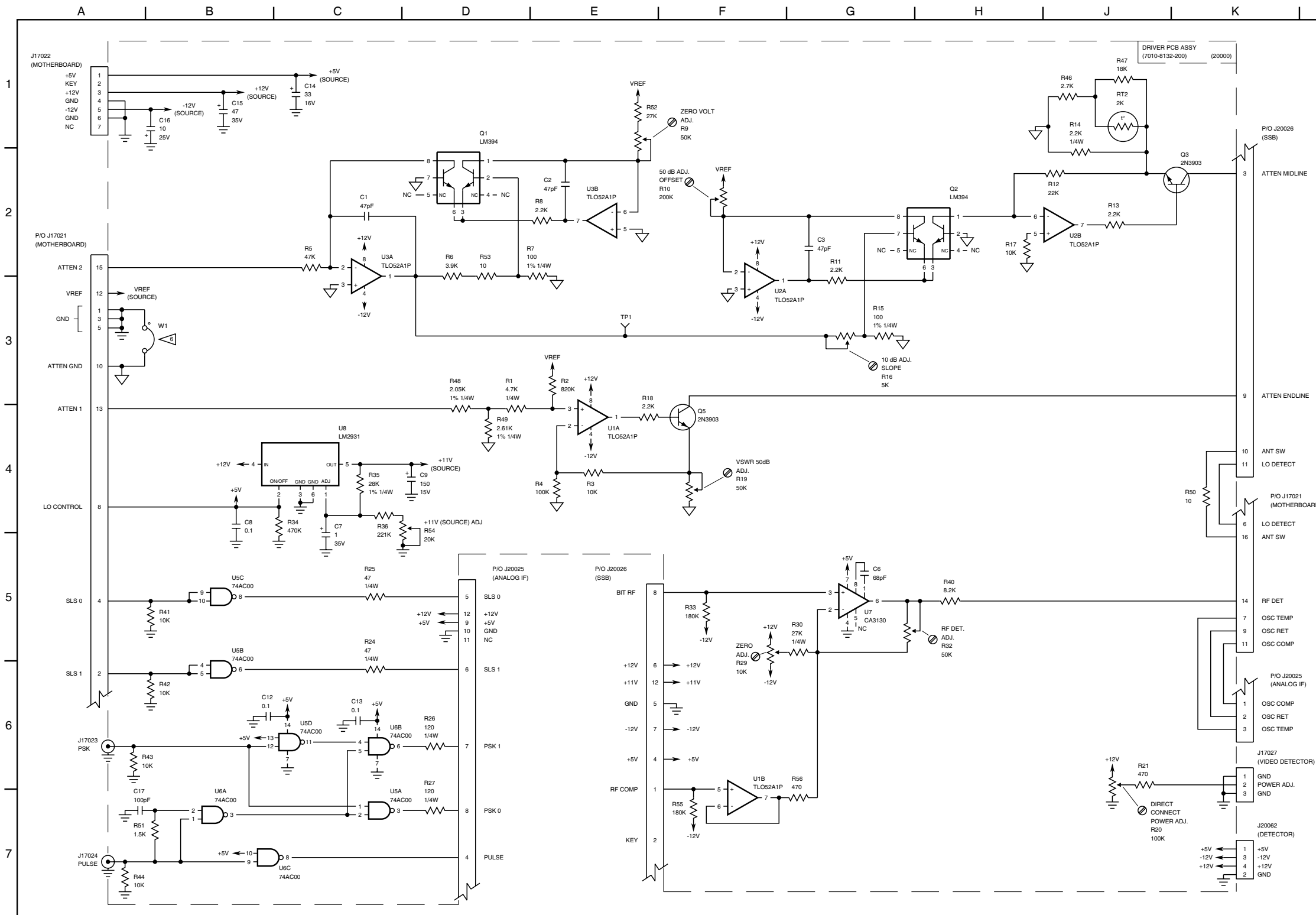
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7005-8541-300 35000 (e.g., FL1 IS FL35001)
7010-8531-300 36000 (e.g., R1 IS R36001)
2. ALL RESISTORS ARE 1/8W, 1% TOLERANCE.
3. ALL RESISTANCE IS EXPRESSED IN OHMS.
4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.

(0000-8541-300-C2)

8541302S
Figure 42 RF Assy (Sheet 21 of 23)
(Decoder Assy - Sheet 2 of 3)
(Circuit Schematic - Sheet 2 of 2)



DETAIL A
(REV B)

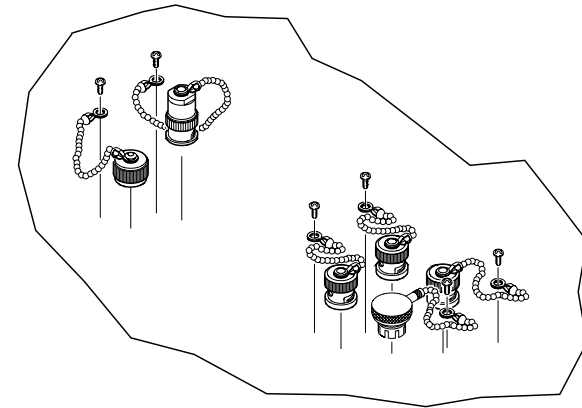


CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

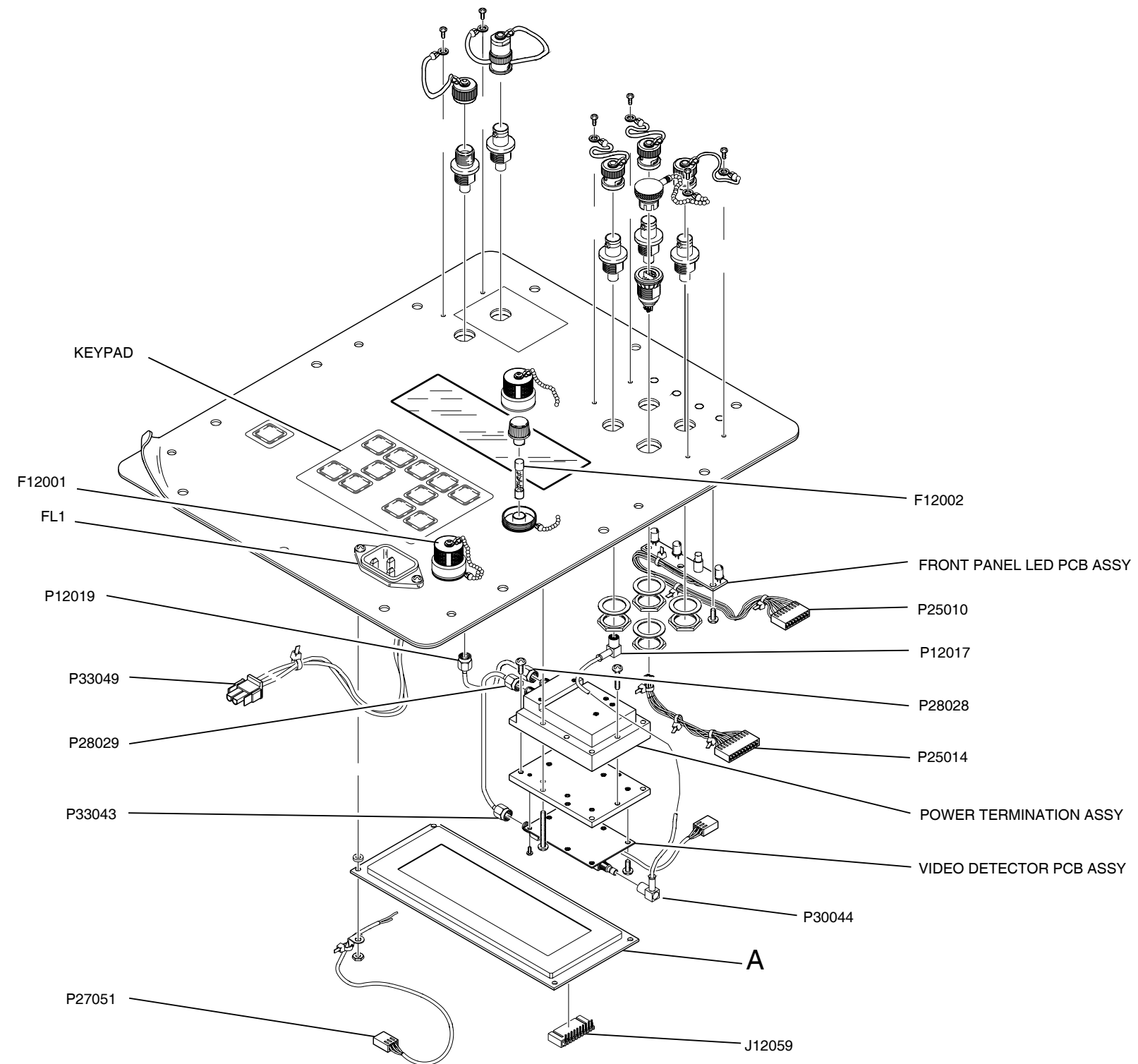
- NOTES:
(UNLESS OTHERWISE NOTED)
1. ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES: 7010-8132-200 20000 (e.g., R1 IS R20001)
 2. ALL RESISTORS ARE 1/8W, 5% TOLERANCE.
 3. ALL RESISTANCE IS EXPRESSED IN OHMS.
 4. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
 5. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
 6. REV C AND ON.

(0000-8132-200-C)

8132200S
Figure 42 RF Assy (Sheet 23 of 23)
(Driver PCB Assy - Sheet 2 of 2)
(Circuit Schematic)



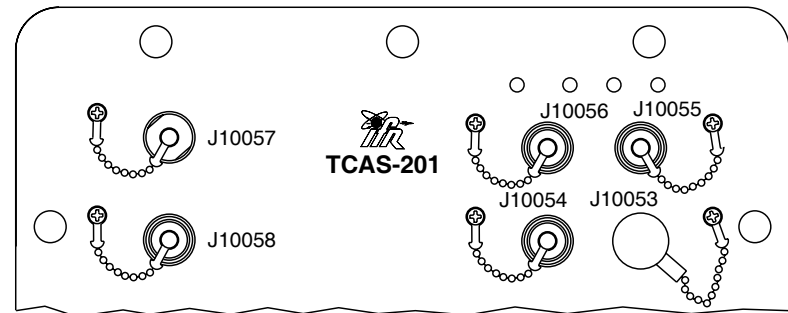
(REV C, D AND D1)



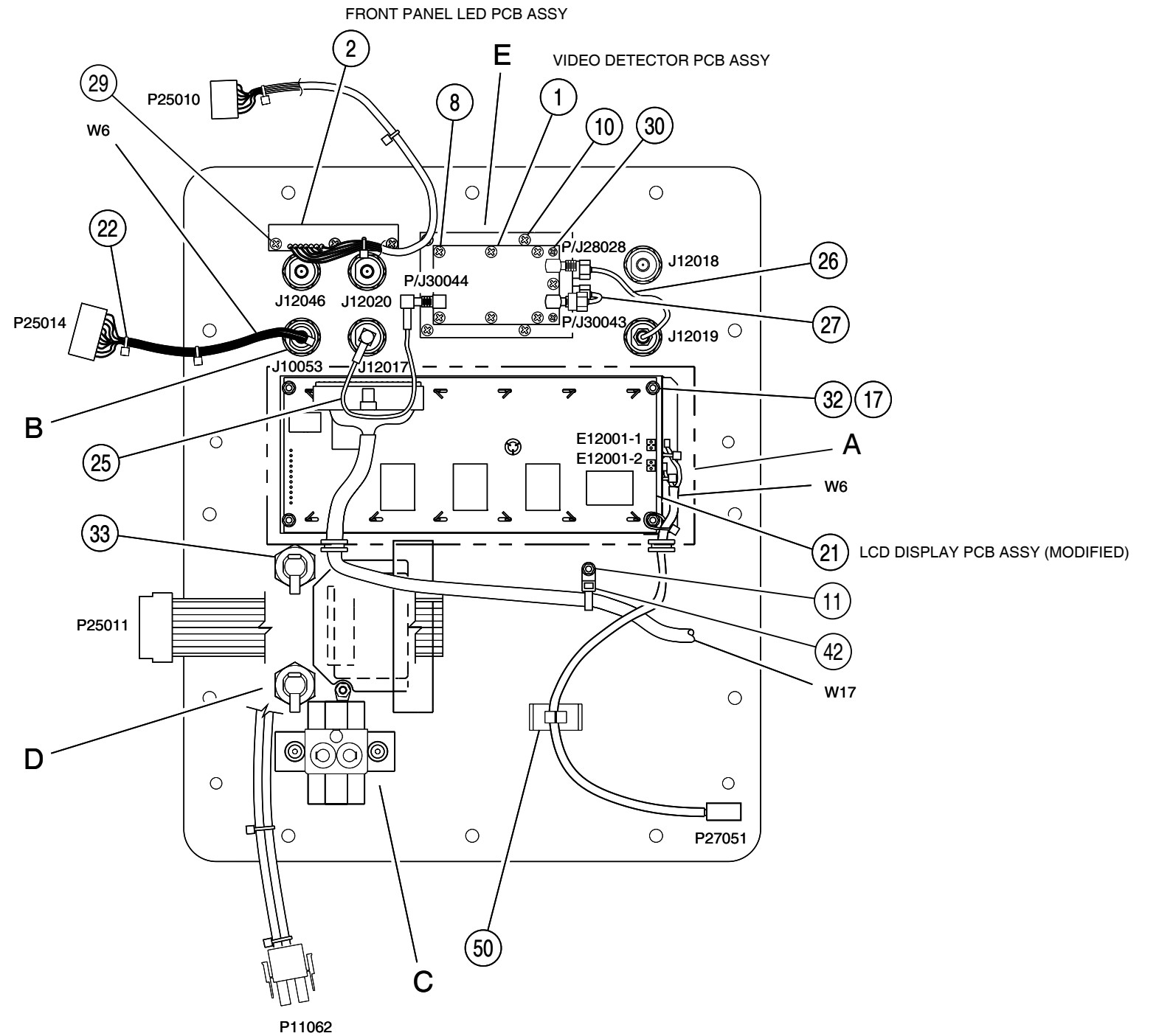
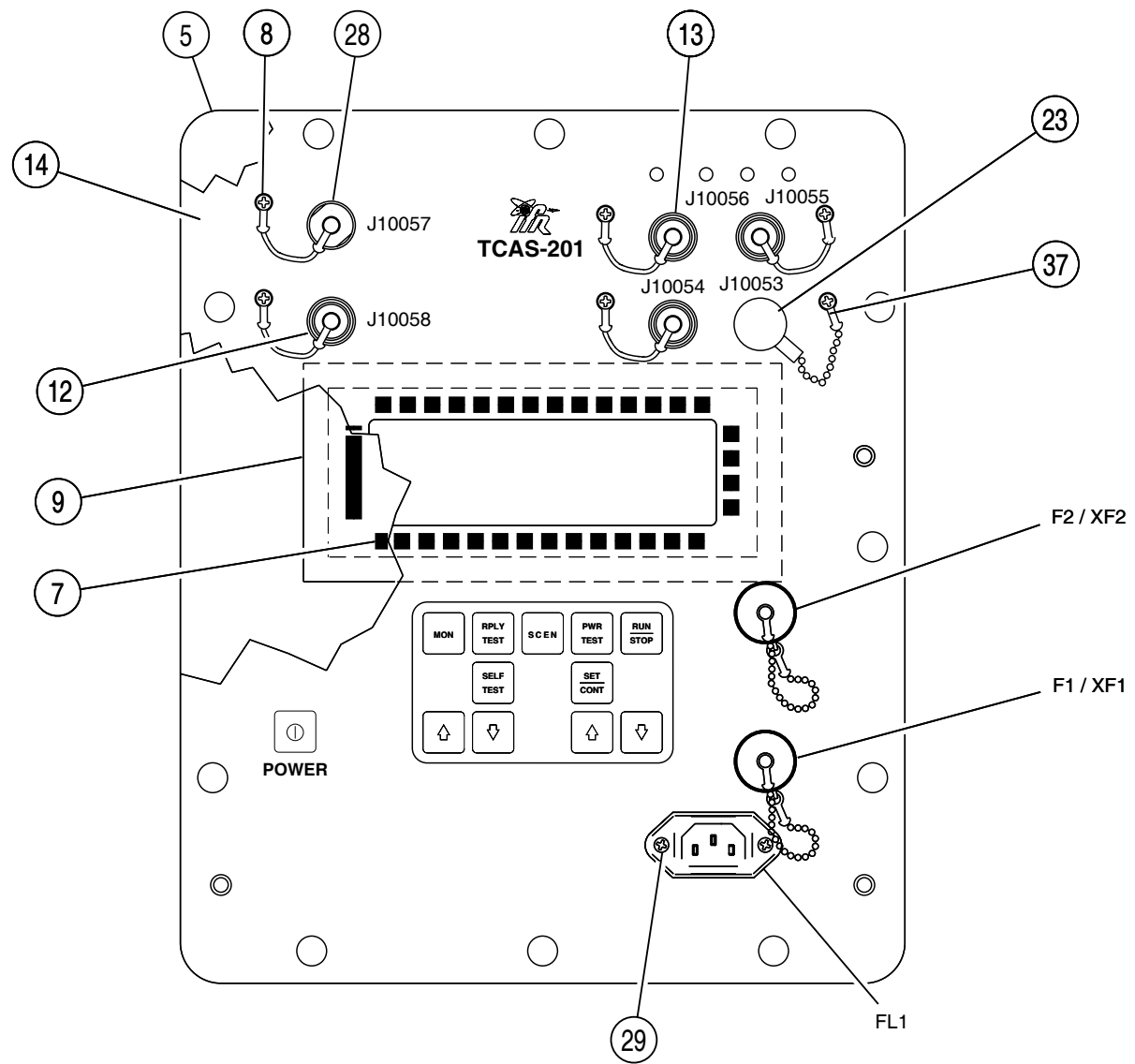
(7005-8544-200-E)

Figure 43 Front Panel Assy (Sheet 1 of 11)

8545400M



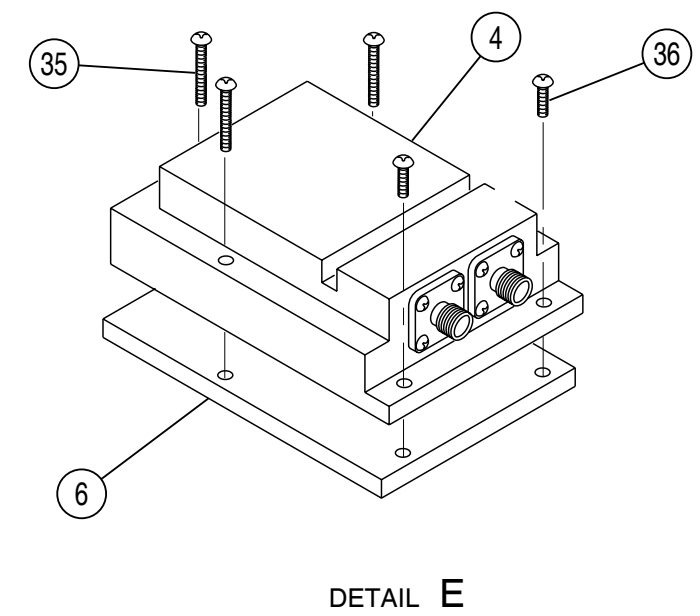
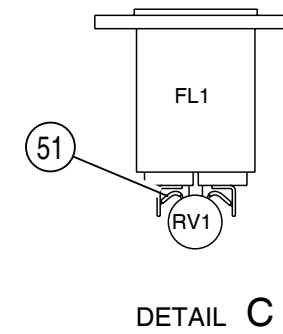
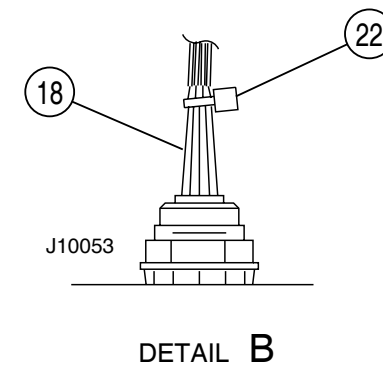
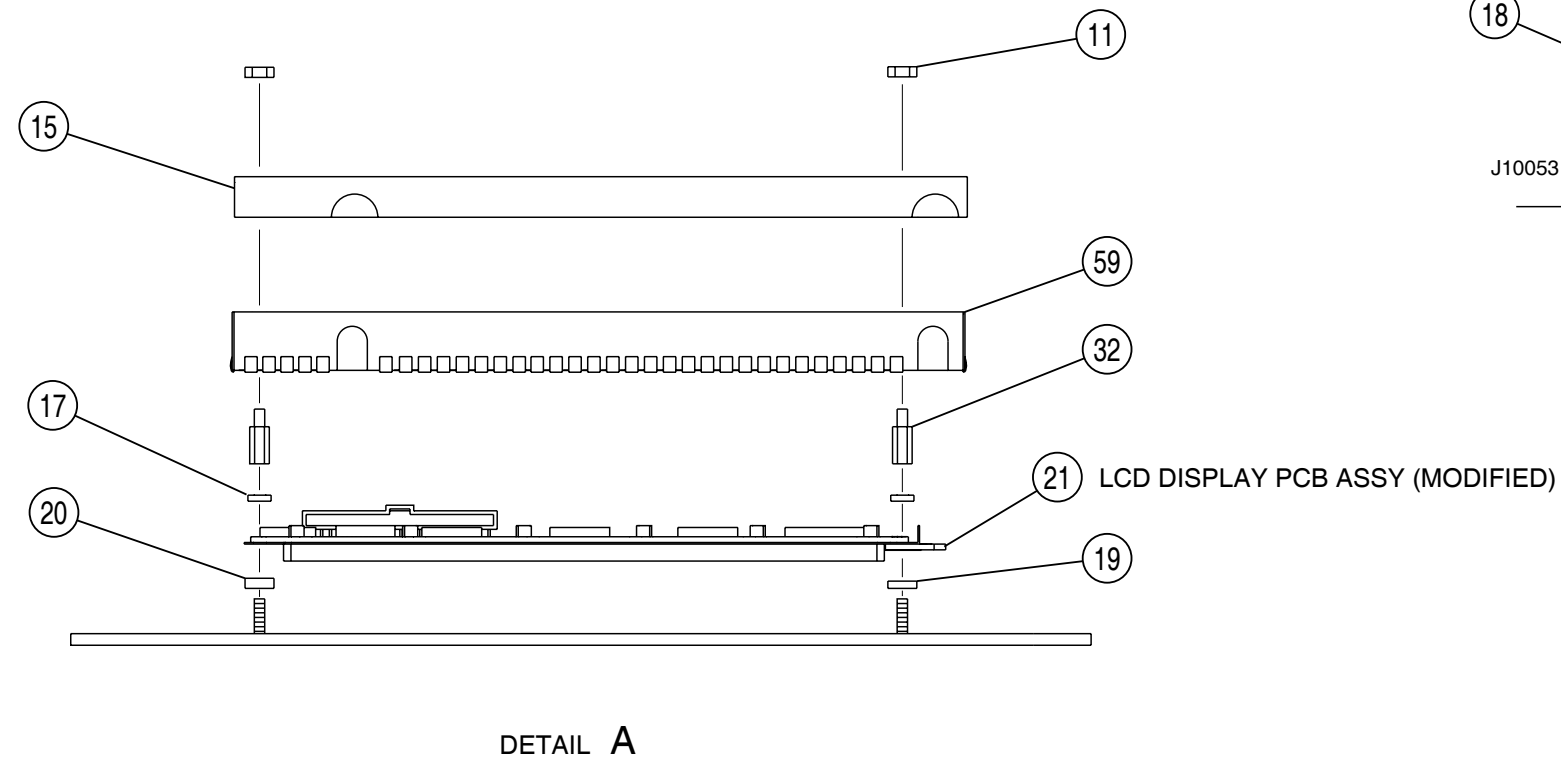
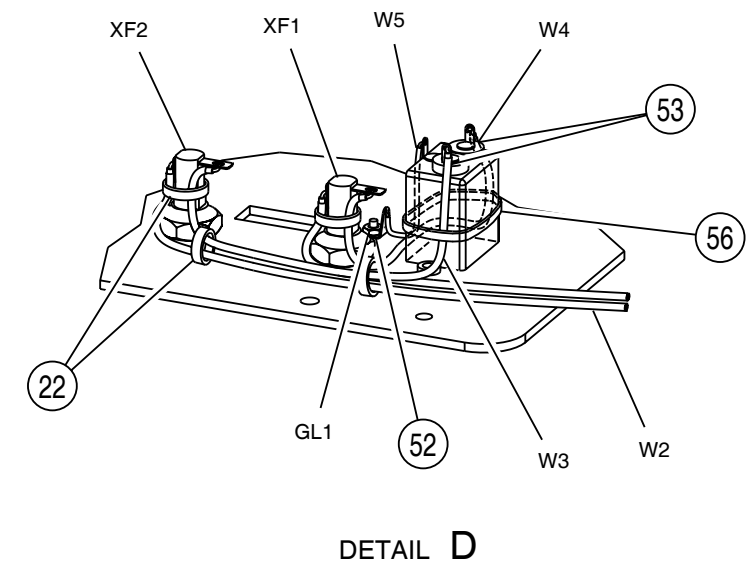
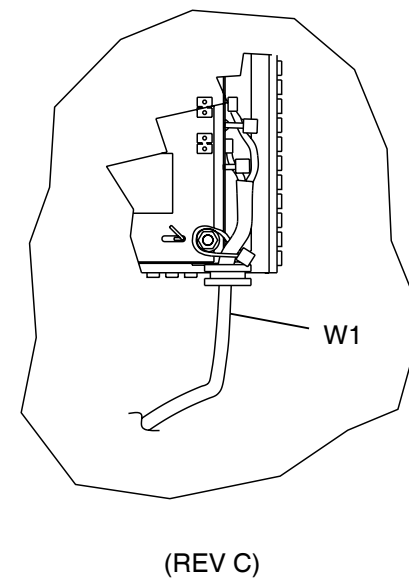
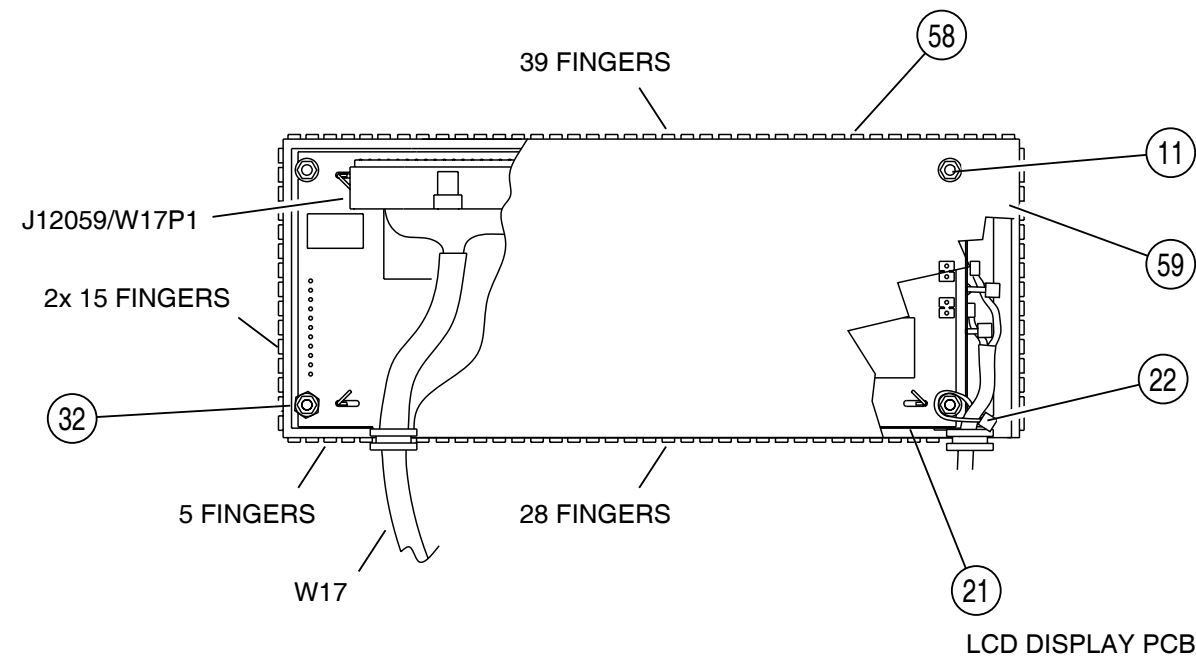
(REV C, D AND D1)



8545402M

(7005-8544-200-E)

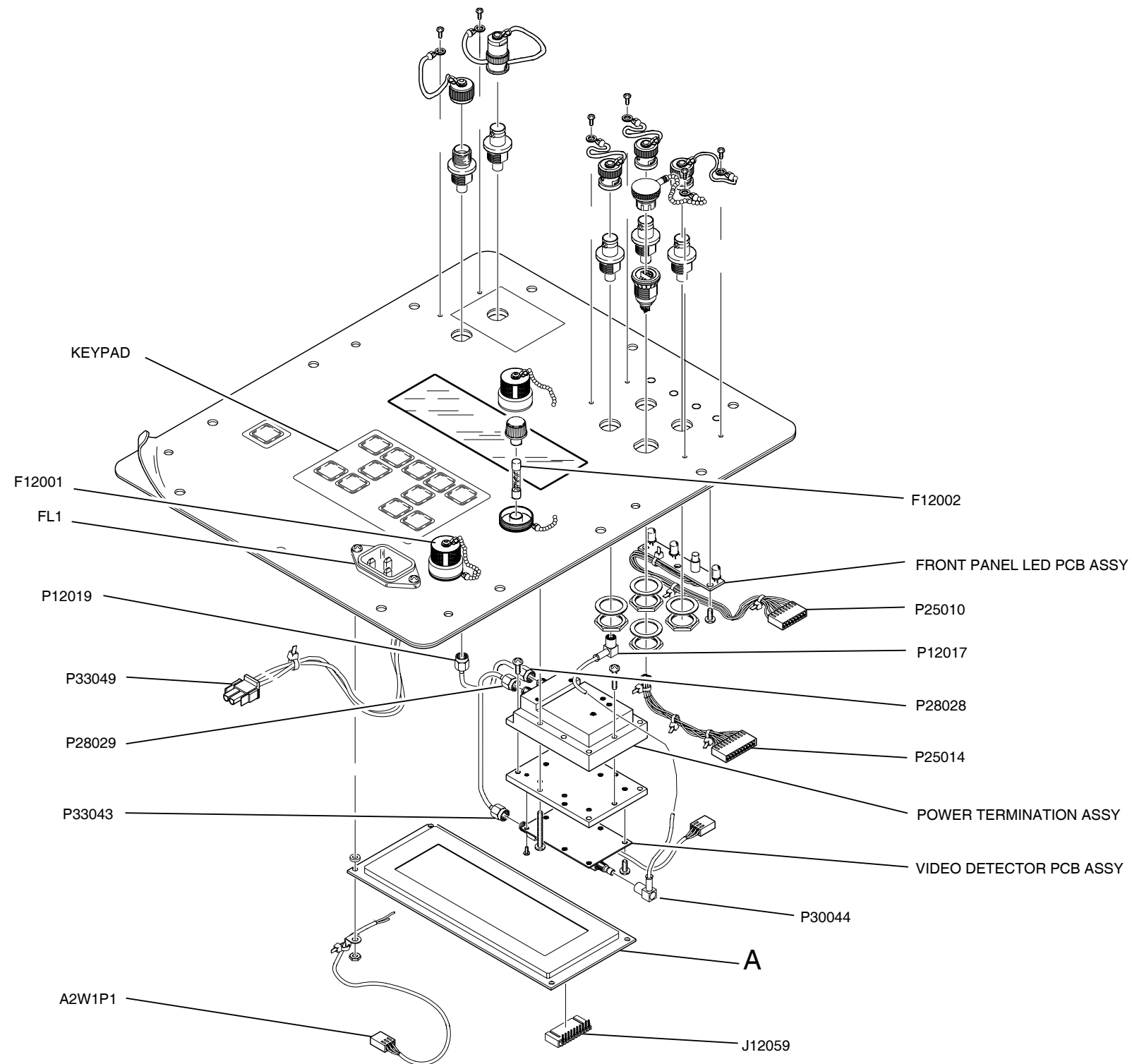
Figure 43 Front Panel Assy (Sheet 2 of 11)



(7005-8544-200-E)

Figure 43 Front Panel Assy (Sheet 3 of 11)

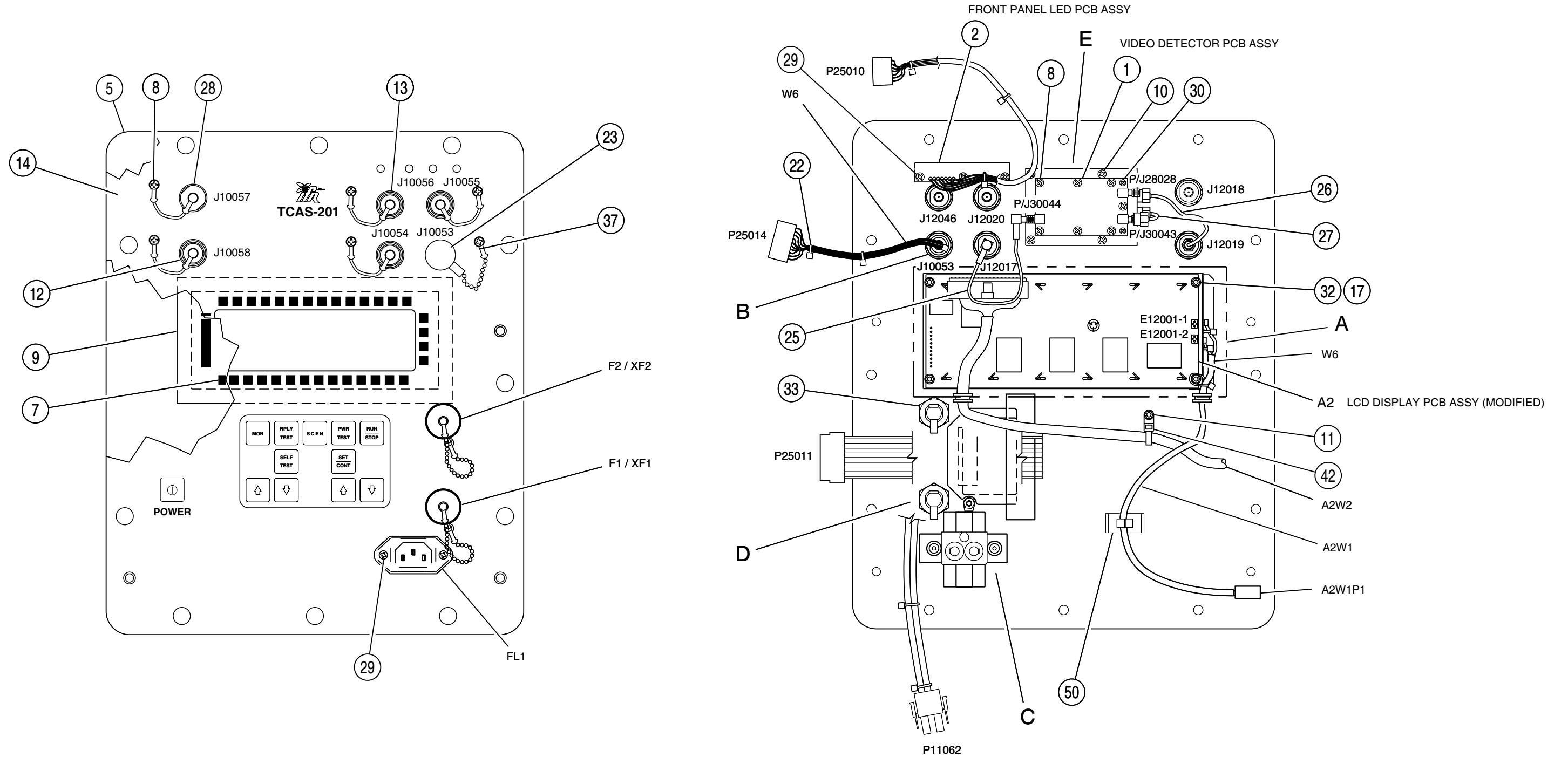
8545401M



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(7005-8540-100-E)

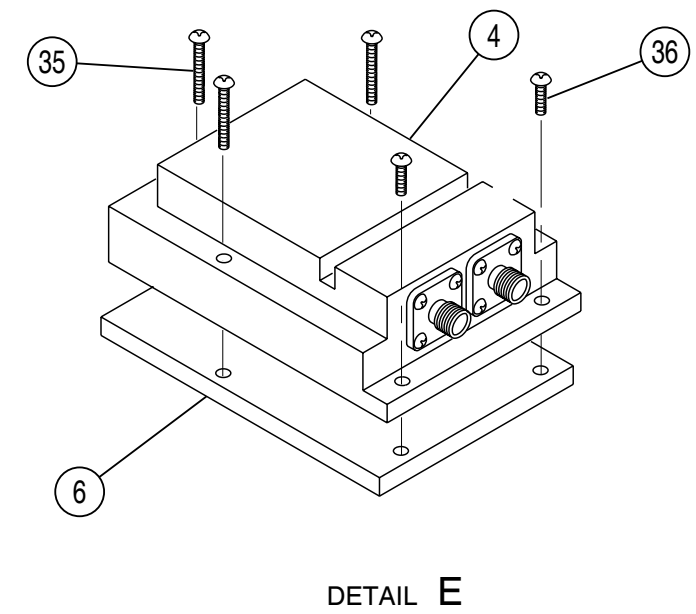
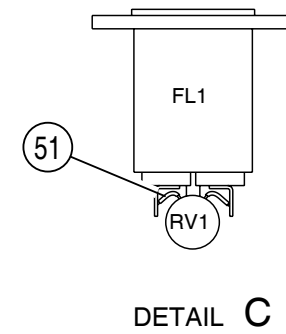
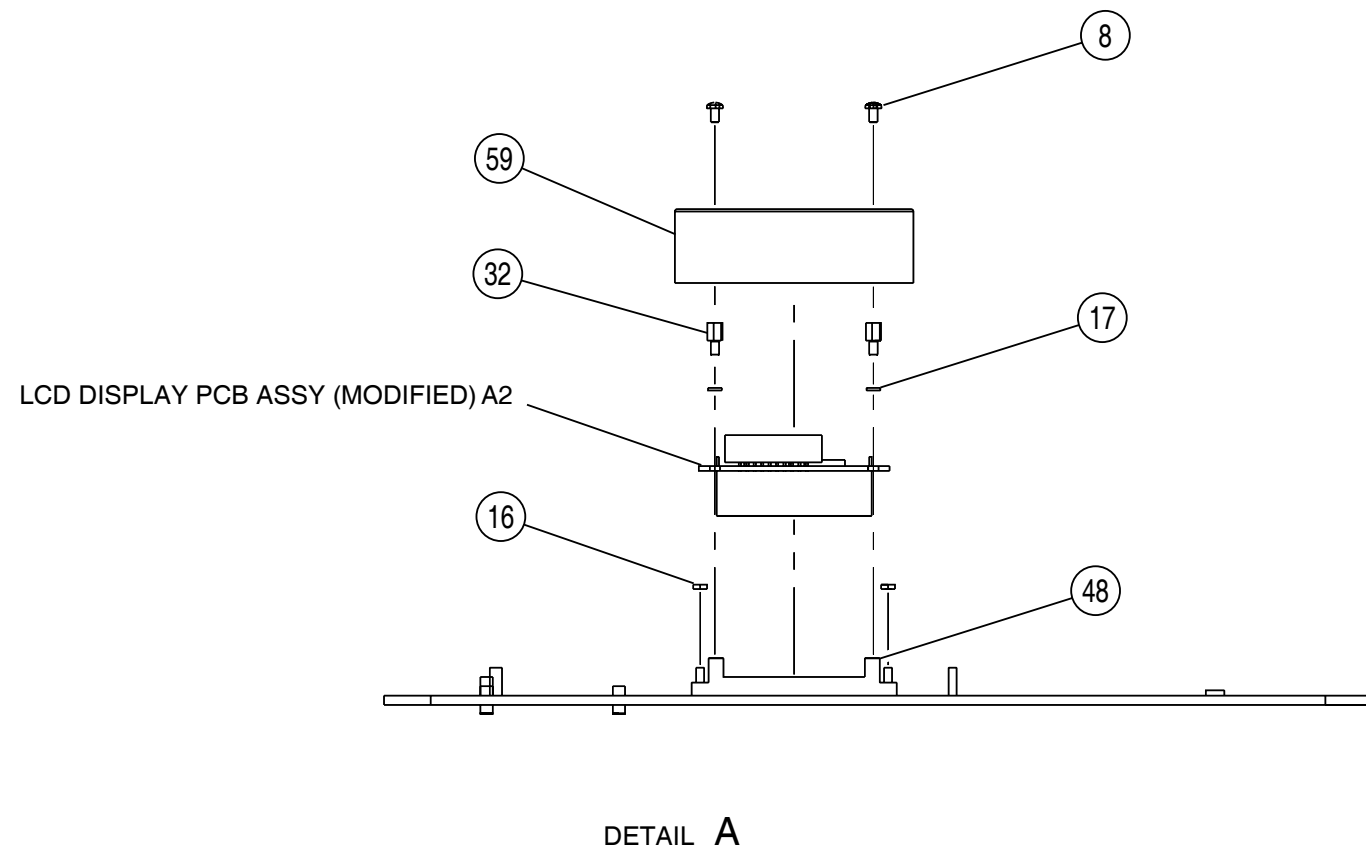
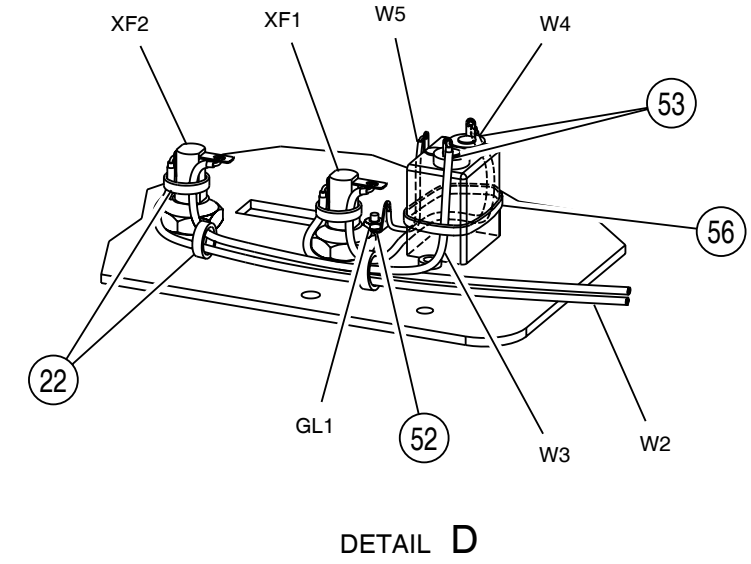
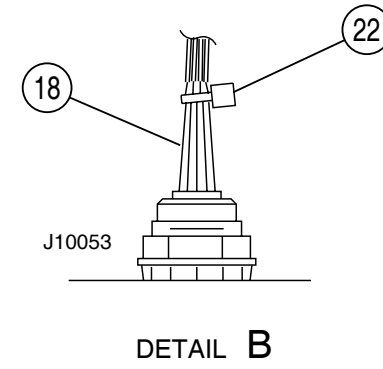
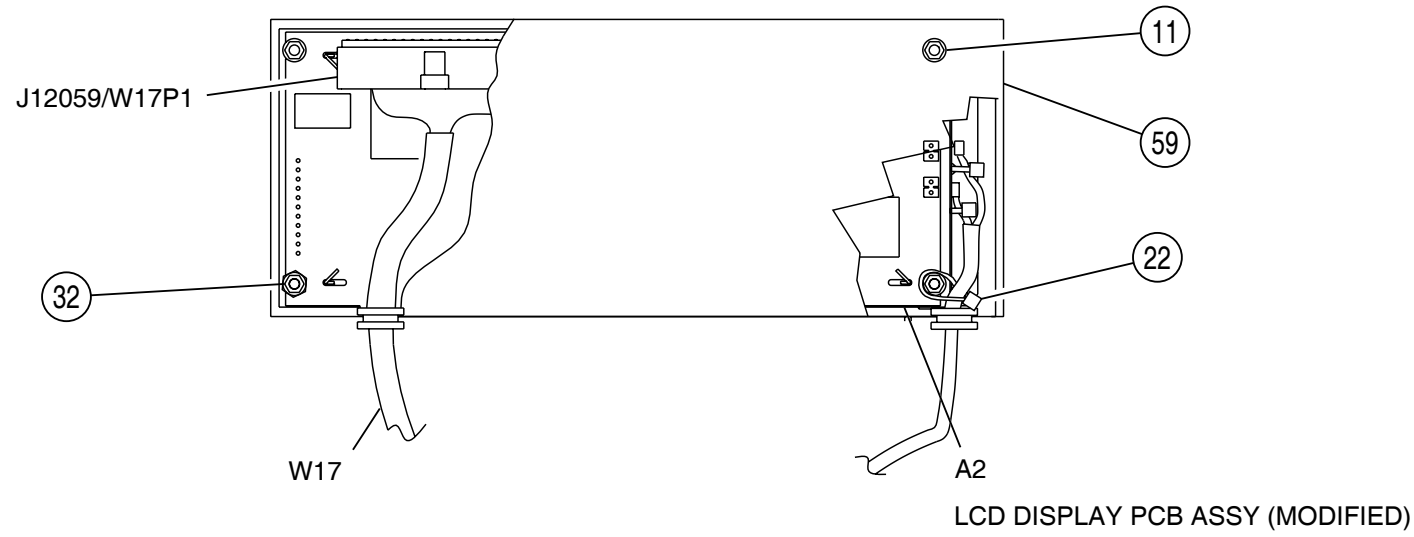
Figure 43 Front Panel Assy (Sheet 4 of 11)



(7005-8540-100-E)

Figure 43 Front Panel Assy (Sheet 5 of 11)

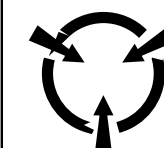
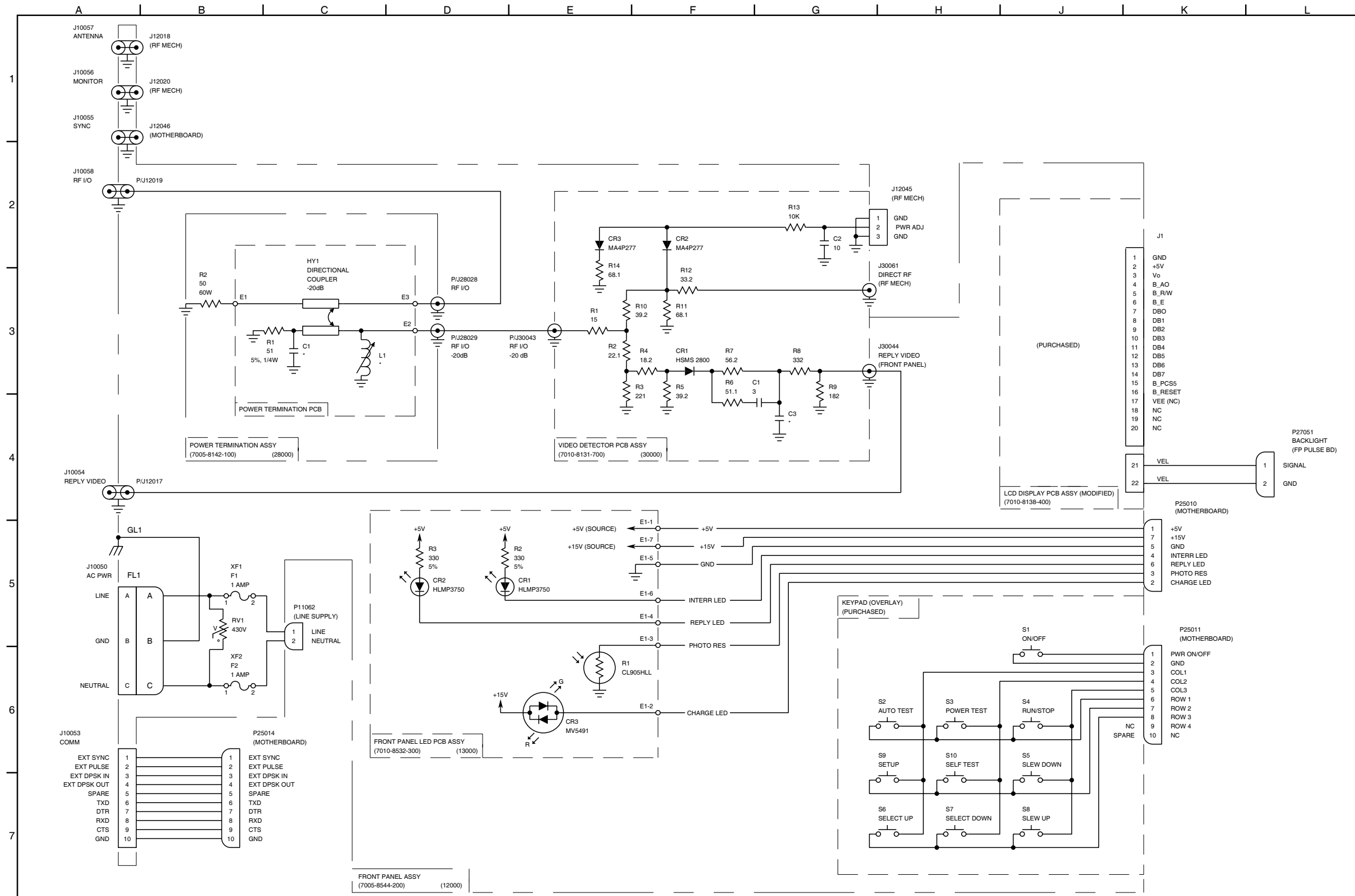
085M-17



085M-18

(7005-8540-100-E)

Figure 43 Front Panel Assy (Sheet 6 of 11)

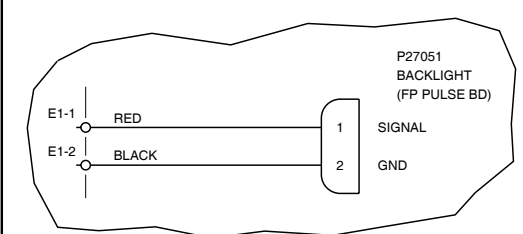


CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

NOTES:
(UNLESS OTHERWISE NOTED)

- ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7005-8544-200 12000 (e.g., GL1 IS GL12001)
7010-8532-300 13000 (e.g., R1 IS R13001)
7005-8142-100 28000 (e.g., R1 IS R28001)
7010-8131-700 30000 (e.g., R1 IS R30001)
- ALL RESISTORS ARE 1/8W, 1% TOLERANCE.
- 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.

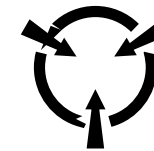
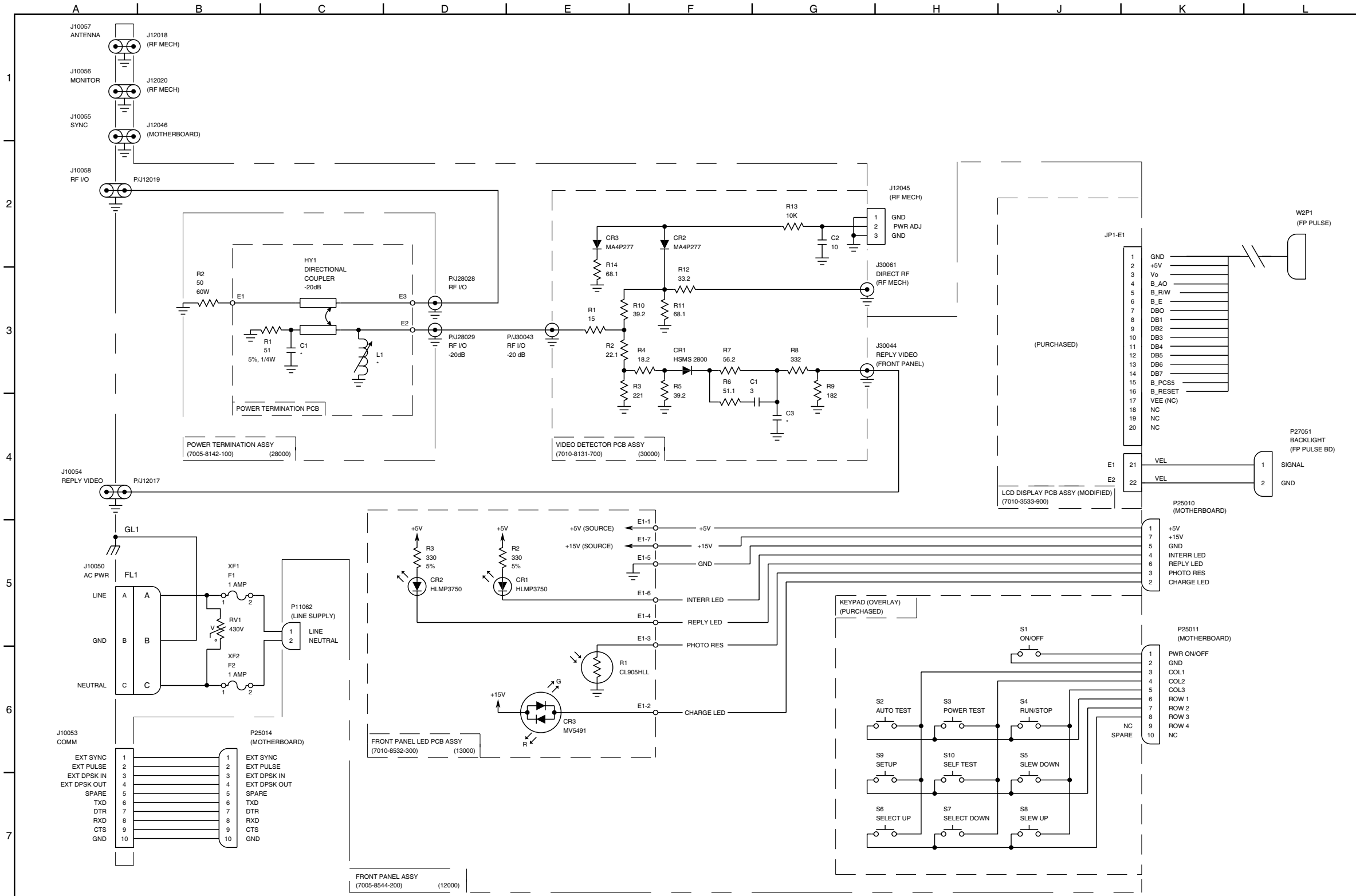


(REV A)

8545400S

(0000-8544-200-B)

Figure 43 Front Panel Assy (Sheet 7 of 11)
(Circuit Schematic - Sheet 1 of 2)



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

NOTES:
(UNLESS OTHERWISE NOTED)

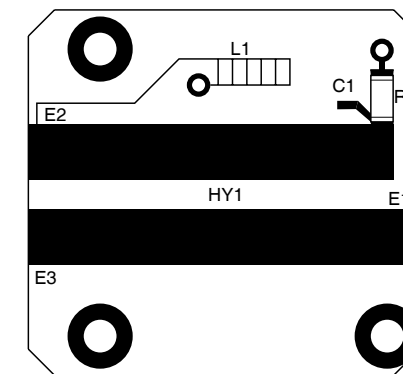
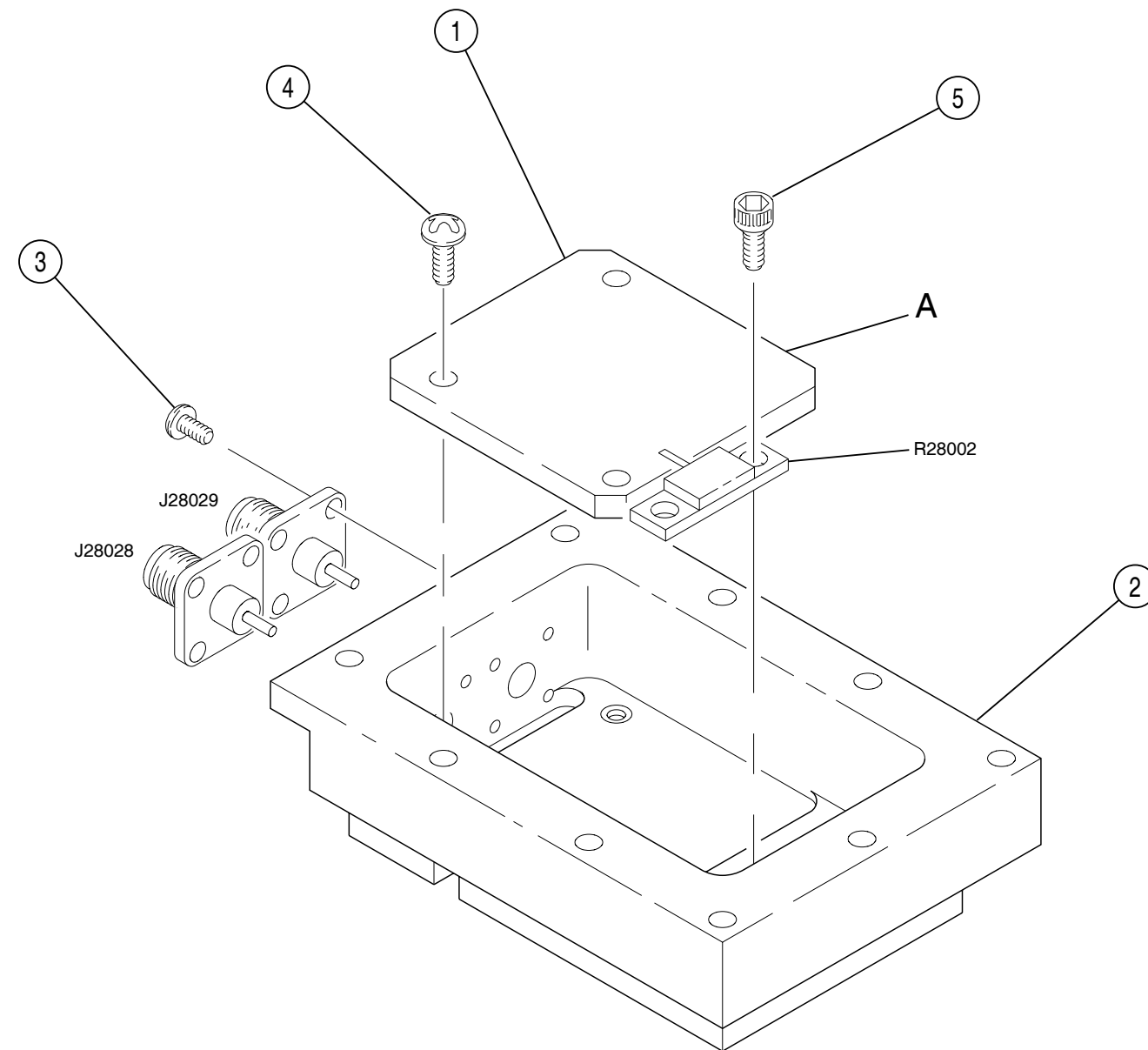
- ALL REFERENCE NUMBERS CARRY AN ASSIGNED DESIGNATOR SERIES. THIS ASSEMBLY CARRIES SERIES:
7005-8544-200 12000 (e.g., GL1 IS GL12001)
7010-8532-300 13000 (e.g., R1 IS R13001)
7005-8142-100 28000 (e.g., R1 IS R28001)
7010-8131-700 30000 (e.g., R1 IS R30001)
- ALL RESISTORS ARE 1/8W, 1% TOLERANCE.
- ALL 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.

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(0000-8544-200-B)

Figure 43 Front Panel Assy (Sheet 8 of 11)
(Circuit Schematic - Sheet 2 of 2)

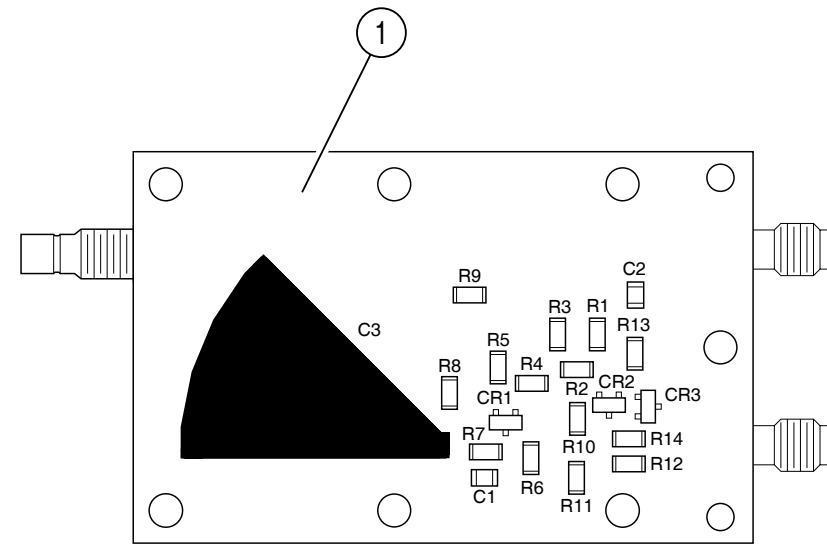


POWER TERMINATION PCB ASSY
DETAIL A

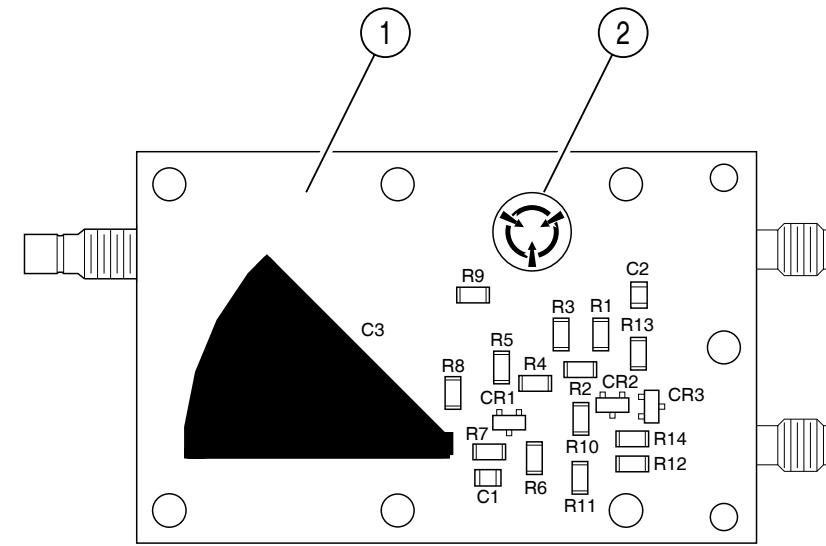
(7005-8142-100-B3)

8142100M

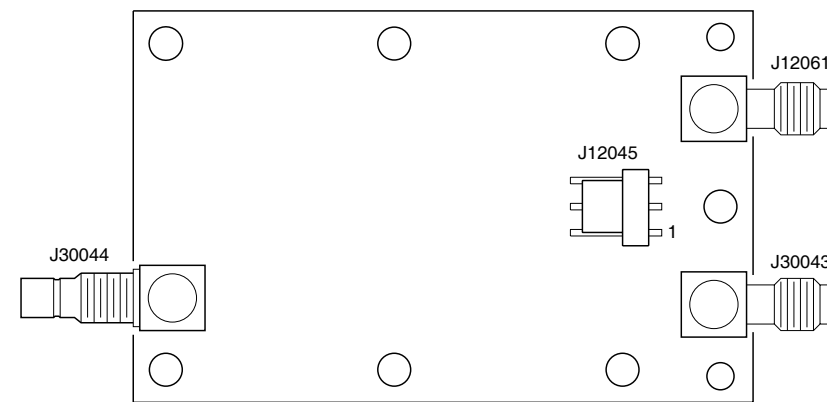
Figure 43 Front Panel Assy (Sheet 9 of 11)
(Power Termination Assy)



TOP VIEW



TOP VIEW
(REV D)

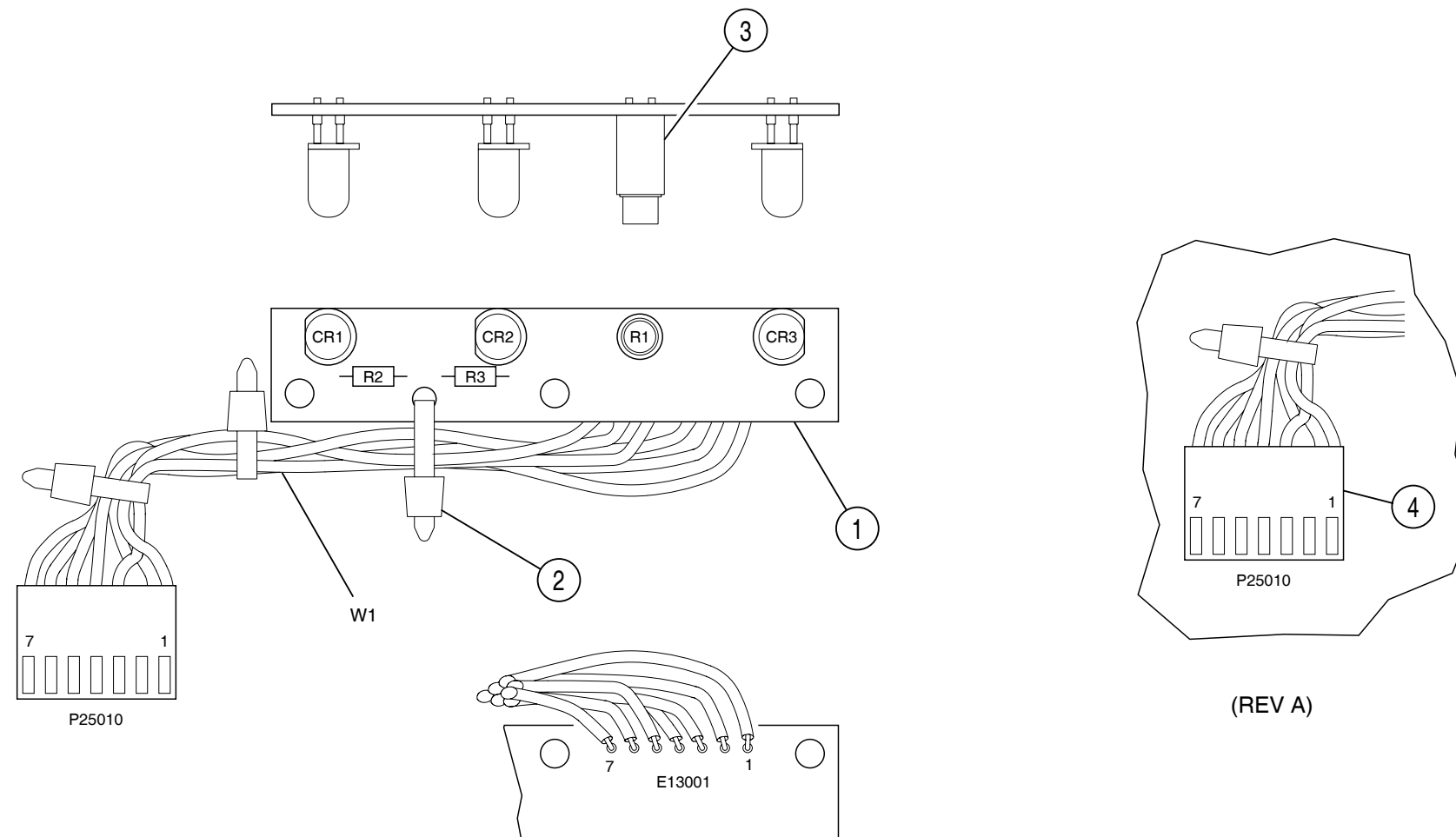


BOTTOM VIEW

(7010-8131-700-D)

8131700P

Figure 43 Front Panel Assy (Sheet 10 of 11)
(Video Detector PCB Assy)



(7010-8532-800-B)

Figure 43 Front Panel Assy (Sheet 11 of 11)
(Front Panel LED PCB Assy)

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